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Cy-Fair Independent School District

Arnold Middle School

11111 TELGE RD,
CYPRESS, TX 77429

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02/17/2025

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TND-101A	1ST LEVEL TECHNOLOGY DEMO PLAN - AREA A
TND-101B	1ST LEVEL TECHNOLOGY DEMO PLAN - AREA B
TND-101C	1ST LEVEL TECHNOLOGY DEMO PLAN - AREA C
TND-101D	1ST LEVEL TECHNOLOGY DEMO PLAN - AREA D
TND-101E	1ST LEVEL TECHNOLOGY DEMO PLAN - AREA E
TND-101F	1ST LEVEL TECHNOLOGY DEMO PLAN - AREA F
TND-101G	1ST LEVEL TECHNOLOGY DEMO PLAN - AREA G
TND-101H	1ST LEVEL TECHNOLOGY DEMO PLAN - AREA H
TND-101J	1ST LEVEL TECHNOLOGY DEMO PLAN - AREA J
TN-101	1ST LEVEL SECURITY OVERALL PLAN
TN-101A	1ST LEVEL TECHNOLOGY PLAN - AREA A
TN-101A.1	1ST LEVEL TECHNOLOGY PLAN - AREA A PORTABLES
TN-101B	1ST LEVEL TECHNOLOGY PLAN - AREA B
TN-101C	1ST LEVEL TECHNOLOGY PLAN - AREA C
TN-101D	1ST LEVEL TECHNOLOGY PLAN - AREA D
TN-101E	1ST LEVEL TECHNOLOGY PLAN - AREA E
TN-101F	1ST LEVEL TECHNOLOGY PLAN - AREA F
TN-101F.1	1ST LEVEL TECHNOLOGY PLAN - AREA F PORTABLES
TN-101G	1ST LEVEL TECHNOLOGY PLAN - AREA G
TN-101H	1ST LEVEL TECHNOLOGY PLAN - AREA H
TN-101J	1ST LEVEL TECHNOLOGY PLAN - AREA J
TN-102	MEZZANINE FIRE ALARM PLAN - COMPOSITE
TN-401	TECHNOLOGY ENLARGED PLANS

ABATEMENT	
ABT101	1ST FLOOR ASBESTOS PLAN - COMPOSITE
ABT101A	1ST FLOOR ASBESTOS PLAN - AREA A
ABT101B	1ST FLOOR ASBESTOS PLAN - AREA B
ABT101C	1ST FLOOR ASBESTOS PLAN - AREA C
ABT101D	1ST FLOOR ASBESTOS PLAN - AREA D
ABT101E	1ST FLOOR ASBESTOS PLAN - AREA E
ABT101F	1ST FLOOR ASBESTOS PLAN - AREA F
ABT101G	1ST FLOOR ASBESTOS PLAN - AREA G
ABT101H	1ST FLOOR ASBESTOS PLAN - AREA H
ABT101J	1ST FLOOR ASBESTOS PLAN - AREA J

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ACOUSTIC
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T-512-476-3664

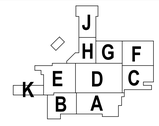
FOOD SERVICE
TBD
T-281-256-2223

POOL/AQUATICS CONSULTANT NAME
T-000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN

NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

SHEET INDEX

G-001

0"
1"

GENERAL PROJECT INFORMATION
G-002
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

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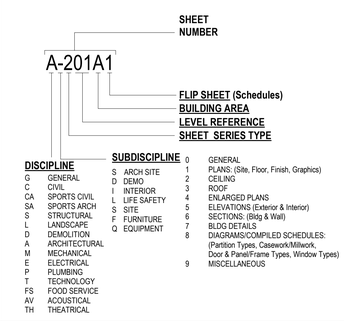
ABBREVIATIONS AND LEGEND KEYS

REFER TO SCHEDULES AND LEGENDS FOR ADDITIONAL ABBREVIATIONS
REFER TO OTHER DISCIPLINES FOR ADDITIONAL ABBREVIATIONS

A	
ABV	above
ACOUS	acoustical
ACT	acoustical ceiling tile
AD	area drain
ADJ	adjustable
AFF	above finished floor
ALT	alternate
ALUM	aluminum
APPROX	approximate
ARCH	architect
B	
B.O.	bottom of
BALC	balcony
BD	board
BET	between
BLDG	building
BLKG	blocking
BLW	below
BM	beam
BOT	bottom
BRKT	bracket
BULKHD	bulkhead
BUR	built up roof
C	
C.G.	corner guard
CAB	cabinet
CALK	caulking
CEM	cement
CER	ceramic
CJ	control joint
CLG	ceiling
CLOS	closet
CLR	clear
CO	cased opening
COL	column
CONC	concrete
CONT	continous
CPT	carpet
CT	ceramic tile
CTR	center
D	
DBL	double
DET	detail
DIA	diameter
DIM	dimension
DN	down
DR	door
DS	down spout
DW	dishwasher
DWG	drawing
E	
E	east
EA	each
EIFS	exterior insulation & finish system
ELEC	electric(al)
ELEV	elevation
EMER	emergency
ENCL	enclosure
EOS	edge of slab
EQ	equal
EQUIP	equipment
ETR	existing to remain
EW	each way
EXP. JT.	expansion joint
EXST	existing
F	
F.O.	face of
FA	fire alarm
FAP	fire annunciator panel
FD	floor drain
FE	fire extinguisher
FEC	fire extinguisher cabinet
FG	finish group
FH	fire hydrant
FHC	fire hose cabinet
FIN	finish
FLR	floor
FLUOR	fluorescent
FT	foot or feet
FUR	furring
G	
GAL	gallon
GALV	galvanized
GB	grab bar
GC	general contractor
GL	glass
GND	ground
GWB	gypsum board
GWB-E	existing gypsum board
GYP	gypsum
H	
H.W.H.	hot water heater
HC	handicapped
HDWD	hardwood
HDWR	hardware
HM	hollow metal
HORIZ	horizontal
HR	hour
HT	height
I	
ID	inner diameter
INCAN	incandescent
INSUL	insulation
INT	interior
J	
JAN	janitor
JST	joist
JT	joint
L	
LAM	laminate
LAV	lavatory
LB(S)	pounds
LDG	landing
LT	light
M	
MAX	maximun
MECH	mechanical
MEMB	membrane
MFR	manufacturer
MIN	minimum
MISC	miscellaneous
MO	masonry opening
MTD	mounted
MTL	metal
N	
N	north
NIC	not in contract
NO	number
NOM	nominal
NTS	not to scale
O	
O.P.	overflow pipe
OA	overall
OC	on center
OD	outside diameter
OFF	office
OH	opposite hand
OPG	opening
OPP	opposite
P	
PART	partition
PERM	perimeter
PG	paint grade
PLAM	plastic laminate
PLAS	plaster
PLYWD	plywood
PR	pair
PT	paint
PTD	painted
R	
R	riser
RAD	radius
RCP	reflected ceiling plan
RD	roof drain
RE	refer
REF	refrigerator
REINF	reinforced
REQD	required
RESIL	resilient
RM	room
S	
RO	rough opening
RTU	root top unit (mech)
S	south
SAFB	sound attenunation fiber batt
SC	soupper
SCHED	schedule
SEAL	sealant
SECT	section
SF	square foot
SHT	sheet
SIM	similar
SPEC	specification
SQ	square
SS	stainless steel
STD	standard
STL	steel
STOR	storage
STRUCT	structural
SUSP	suspended
SYM	symmetrical
T	
T	tread
T&G	tongue & groove
TEL	telephone
TER	terrazzo
THK	thick
THR	threshold
TO	top of
TYP	typical
U	
UC	undercut
UNFIN	unfinished
UNO	unless noted otherwise
UON	unless otherwise noted
UTIL	utility
V	
VCT	vinyl composition tile
VERT	vertical
VIF	verify in field
VTR	vent termination pipe
VWC	vinyl wall covering
W	
W	west
W/	with
W/O	without
WC	watercloset
WIN	window
WP	waterproof
WS	wetstack
WSCT	wainscot
WT	weight

PROJECT GRAPHIC REFERENCES



DISCIPLINE

G	GENERAL
C	CIVIL
CA	SPORTS CIVIL
SA	SPORTS ARCH
S	STRUCTURAL
L	LANDSCAPE
D	DEMOLITION
A	ARCHITECTURAL
M	MECHANICAL
E	ELECTRICAL
P	PLUMBING
T	TECHNOLOGY
FS	FOOD SERVICE
AV	ACOUSTICAL
TH	THEATRICAL

SUBDISCIPLINE

S	ARCH SITE
D	DEMO
I	INTERIOR
L	LIFE SAFETY
S	SITE
F	FURNITURE
O	EQUIPMENT

0	GENERAL
1	PLANS: (Site, Floor, Finish, Graphics)
2	CEILING
3	ROOF
4	ENLARGED PLANS
5	ELEVATIONS (Exterior & Interior)
6	SECTIONS: (Bldg & Wall)
7	BLDG DETAILS
8	DIAGRAMS/COMPILED SCHEDULES: (Partition Types, Casework/Millwork, Door & Panel/Frame Types, Window Types)
9	MISCELLANEOUS

GENERAL NOTES

A. THE CONSTRUCTION DOCUMENTS ARE TO INCLUDE AIA DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION". CLIENT SHALL BE DESIGNATED AS "THE OWNER", PBK SHALL BE DESIGNATED AS "THE ARCHITECT". FACILITY SHALL BE DESIGNATED AS "THE LANDLORD". THE CONTRACT DOCUMENT SHALL ALSO INCLUDE THE AGREEMENT, PERFORMANCE AND PAYMENT BONDS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, THE SPECIFICATIONS, THE DRAWINGS ADDENDUM, AND CONTRACT MODIFICATIONS, BUILDING RULES AND REGULATIONS & ANY OTHER DOCUMENTS REQUIRED BY THE OWNER.

B. THE GENERAL CONTRACTOR SHALL BE BOTH LICENSED AND BONDED IN STATE OF PROJECT LOCATION AND SHALL PROVIDE DOCUMENTS UPON REQUEST.

C. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF ALL APPLICABLE SAFETY AND BUILDING CODES, AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS REQUIRED FOR THE WORK AND FOR THE SCHEDULING OF ALL REQUIRED INSPECTIONS DURING THE COURSE OF THE WORK.

D. THE GENERAL CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITIONS AS PROVIDED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES, ERRORS, INCONSISTENCIES OR AMBIGUITIES PRIOR TO PROCEEDING WITH THE WORK.

E. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR, AND PROVIDE PROTECTION OF, ANY EXISTING FINISHES, MATERIALS, AND EQUIPMENT TO REMAIN. THE GENERAL CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED FINISHES, MATERIALS, AND EQUIPMENT AS A RESULT OF THE WORK. ALL EXISTING FINISHES TO REMAIN SHALL BE CLEANED AT THE COMPLETION OF CONSTRUCTION. THE GENERAL CONTRACTOR SHALL PHOTOGRAPH AND DOCUMENT ALL EXISTING DAMAGES, AND PROVIDE TO THE ARCHITECT, PRIOR TO PROCEEDING WITH THE WORK.

F. ALL MATERIALS AND SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL CONSTRUCTION SHALL BE OF INDUSTRY STANDARD OR BETTER. THE ARCHITECT SHALL BE FINAL JUDGE OF QUALITY.

G. ONLY NEW MATERIALS AND EQUIPMENT OF RECENT MANUFACTURE, OF STANDARD QUALITY AND FREE FROM DEFECTS, WILL BE PERMITTED IN THE WORK, UNLESS OTHERWISE NOTED. REJECTED MATERIALS AND EQUIPMENT SHALL BE REMOVED IMMEDIATELY FROM THE WORK AND REPLACED WITH MATERIALS AND EQUIPMENT OF THE QUALITY SPECIFIED. FAILURE TO REMOVE REJECTED MATERIALS AND EQUIPMENT SHALL NOT RELIEVE THE GENERAL CONTRACTOR FROM THE RESPONSIBILITY FOR QUALITY OF MATERIAL AND EQUIPMENT USED NOR FROM ANY OTHER OBLIGATION IMPOSED BY THE CONTRACT.

I. IN THE EVENT OF CONFLICT BETWEEN DATA SHOWN ON DRAWINGS AND DATA PROVIDED IN THE SPECIFICATION, THE SPECIFICATION SHALL GOVERN. DETAIL DRAWINGS TAKE PRECEDENT OVER DRAWINGS OF LARGER SCOPE. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE ARCHITECT OF ANY DISCREPANCIES, PRIOR TO PROCEEDING WITH THE WORK. IN CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, NOT CLARIFIED BY ADDENDUM, THE MORE SPECIFIC PROVISION SHALL TAKE PRECEDENCE.

J. DO NOT SCALE DRAWINGS. STATED & WRITTEN DIMENSIONS GOVERN. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED BECAUSE OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS, UNLESS THEY CONTRIBUTE TO A CHANGE IN THE SCOPE OF THE WORK. ANY DIFFERENCE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR COORDINATION PRIOR TO ORDERING, MANUFACTURING, OR PROCEEDING WITH THE WORK. HORIZONTAL DIMENSIONS INDICATED ARE TO/FROM FACE OF FINISH, UNLESS NOTED OTHERWISE. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB EXCEPT WHERE NOTED TO BE ABOVE FINISHED FLOOR (AFF). DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF ARCHITECT UNLESS NOTED +/-.

J. THE GENERAL CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF EXISTING AND PROPOSED NEW MECHANICAL, ELECTRICAL, PLUMBING, DATA, AND SPRINKLER EQUIPMENT (INCLUDING BUT NOT LIMITED TO STRUCTURAL MEMBERS, PIPING, DUCT WORK, CONDUIT AND SPRINKLERS) AND THAT CLEARANCES FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT ARE PROVIDED. ELEMENTS IN CONFLICT SHALL BE DOCUMENTED AND PROVIDED TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

K. THE GENERAL CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL, FOR ALL, BUT NOT LIMITED TO, THE FOLLOWING: SHOP-FABRICATED MILLWORK, CARPET LAYOUT, FLOORING, LIGHT FIXTURES, DOORS, MISC. STEEL, METAL FABRICATION, GLASS/GLAZING, SPRINKLER LAYOUTS, HARDWARE. SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF 3 SETS OF PRINTS. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS OF CONTRACT DOCUMENTS. MATERIAL SUBMITTALS (3 SAMPLES) SHALL BE PROVIDED FOR WOOD, FASTENERS, ACRYLIC, CARPET, TILE, BASE, PAINT, LAMINATE AND ANY OTHER MATERIALS INDICATED IN THE SHOP DRAWING.

L. THE GENERAL CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH MANUFACTURER'S CUT SHEETS AND SPECIFICATIONS FOR ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO: LIGHT FIXTURES, PLUMBING EQUIPMENT, ELECTRICAL EQUIPMENT, FANS, SUPPLEMENTARY HEATING AND COOLING ELEMENTS, ALL HARDWARE AND SECURITY EQUIPMENT.

M. THE GENERAL CONTRACTOR SHALL NOT PROCEED WITH WORK FOR WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE A CLAIM FOR EXTRA COMPENSATION. THE CONTRACTOR SHALL NOT PROCEED WITH WORK WHICH, IF COMPLETED IN STRICT CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, WILL RESULT IN ADDITIONAL WORK BEYOND THE SCOPE OF THE CONTRACT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER. ANY FIELD CONDITIONS THAT SIGNIFICANTLY VARY FROM THE CONTRACT DOCUMENTS OR WILL RESULT IN ADDITIONAL WORK, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.

N. THE GENERAL CONTRACTOR SHALL INCLUDE ALL X-RAY AND CORE DRILL COSTS. THE GENERAL CONTRACTOR SHALL REVIEW AND COORDINATE THE SIZE AND LOCATION OF ALL SLAB OPENINGS WITH ALL RELATED DISCIPLINES. THE GENERAL CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF CORE DRILLING AND SLAB OPENINGS TO ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK.

O. PATCH, REPAIR, AND INSTALL ALL FIREPROOFING AS REQUIRED BY CODE. FIREPROOF ALL NEW PENETRATIONS AS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

P. WHERE BUILDING SEISMIC JOINTS ARE LOCATED, THE GENERAL CONTRACTOR SHALL PROVIDE APPLICABLE CODE AND INDUSTRY BEST PRACTICES FOR ROUTING OF ALL PIPING, DUCTS, CONDUITS AND OTHER CONTINUOUS RUNS.

Q. THE GENERAL CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF EQUIPMENT AND MECHANICAL AND ELECTRICAL SYSTEMS. NO ALLOWANCES OF ANY KIND WILL BE MADE FOR THE GENERAL CONTRACTOR'S NEGLIGENCE TO FORESEE MEANS OF INSTALLING EQUIPMENT INTO POSITION.

R. THE FINISHED WORK SHALL BE FIRM, WELL-ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM, APPEARANCE WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION. JOINTING SHALL BE CLOSE FITTING, NEAT AND WELL SCRIBED. THE FINISHED WORK SHALL HAVE NO EXPOSED UNSIGHTLY ANCHORS OR FASTENERS AND SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION, CONTRACTION AND SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING, AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITIONS.

S. ATTACHMENTS, CONNECTIONS OR FASTENERS OF ANY NATURE ARE TO PROPERLY AND PERMANENTLY BE SECURED IN CONFORMANCE WITH INDUSTRY BEST PRACTICES. THE DRAWINGS HIGHLIGHT SPECIAL CONDITIONS ONLY AND BY NO MEANS ILLUSTRATE EVERY CONNECTION. THE CONTRACTOR IS RESPONSIBLE FOR IMPROVING CONNECTION ACCORDINGLY.

T. GENERAL CONTRACTOR SHALL WAIVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OF GOVERNING CODES, ORDINANCES, ETC. REQUIRE QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE WOULD REQUIRE.

U. THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS AND SHALL ORDER AND SCHEDULE DELIVERY OF MATERIALS TO AVOID DELAYS IN CONSTRUCTION. IF AN ITEM IS FOUND TO BE UNAVAILABLE OR TO HAVE A LONG LEAD TIME, THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY WITH A PROPOSED ALTERNATIVE.

V. THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER, THE LANDLORD, AND THE ARCHITECT IN WRITING OF ANY DEFICIENCIES IN BASE BUILDING WORK PRIOR TO THE COMMENCEMENT OF THE WORK. ANY UNREPORTED DEFICIENCIES WILL BECOME THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CORRECT.

W. THE GENERAL CONTRACTOR SHALL EXERCISE INDUSTRY BEST PRACTICES FOR CARE AND CAUTION DURING THE CONSTRUCTION OF THE WORK, AND SHALL SCHEDULE WORK TO MINIMIZE DISTURBANCES TO OCCUPANTS, ADJACENT SPACES AND/OR STRUCTURES, PROPERTY, PUBLIC THOROUGHFARES, ETC. THE GENERAL CONTRACTOR SHALL TAKE PRECAUTIONS AND BE RESPONSIBLE FOR THE SAFETY OF ALL BUILDING OCCUPANTS DURING CONSTRUCTION PROCEDURES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS INCURRED.

X. ALL DEBRIS SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS, OR AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION. UPON COMPLETION OF THE WORK, REMOVE ALL DEBRIS FROM THE BUILDING CREATED BY THE WORK PROVIDED UNDER THIS CONTRACT AND LEAVE ALL AREAS CLEAN. TRASH IS NOT PERMITTED TO BE BURNED ON SITE.

Y. ALL ABANDONED AND MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, CONDUITS AND DEBRIS SHALL BE REMOVED FROM EXPOSED AREAS OF THE FLOORS, WALLS, AND CEILINGS. REMOVE ALL ABANDONED PIPE SLEEVES IN FLOOR SLABS. PATCH EXISTING SLAB AS REQUIRED TO MAINTAIN UL FIRE RATING OF FLOOR SLAB WHERE PIPES AND CONDUITS HAVE BEEN REMOVED.

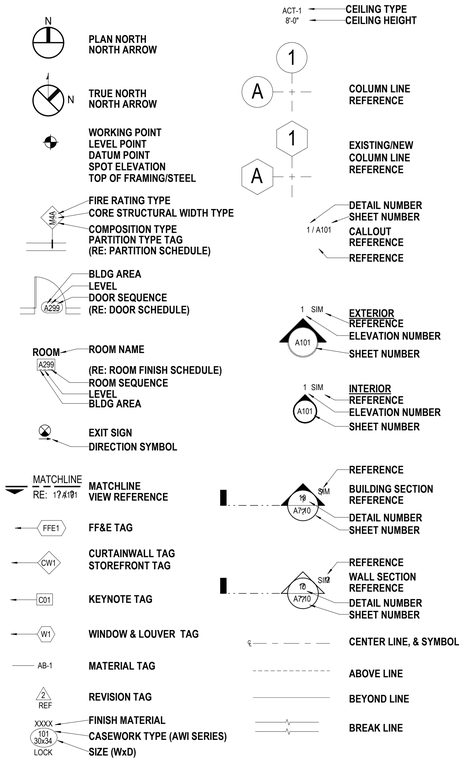
Z. SLAB PENETRATIONS SHALL BE SEALED AS REQUIRED TO MAINTAIN FIRE RATING, USING MATERIALS AND METHODS APPROVED BY THE AUTHORITY HAVING JURISDICTION. EXPANSION MATERIAL SHALL BE APPROVED BY THE ARCHITECT.

ZA. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ACCESS PANELS WHICH MAY BE REQUIRED PRIOR TO PROCEEDING WITH THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TRADES. REQUIRED ACCESS PANELS SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK.

ZB. CONTRACTOR SHALL PROVIDE THE TEAM WITH A CONSTRUCTION SCHEDULE SHOWING THE PROPOSED PHASING. LONG LEAD ITEMS THAT WILL AFFECT THE SUBSTANTIAL COMPLETION DATE SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.

PROJECT GRAPHIC REFERENCES

PROJECT SYMBOLS



PROJECT SYMBOLS

CONSTRUCTION TYPE SYMBOLS

EXISTING CONSTRUCTION TO REMAIN
EXISTING CONSTRUCTION TO BE DEMOLISHED
NEW NON-RATED CONSTRUCTION

MATERIAL INDICATIONS

CONCRETE
BRICK
CONC. MASONRY UNITS (CMU)
RIGID INSULATION
BATT INSULATION
ACOUSTICAL TILE / FABRIC PANEL
GYPSUM BOARD
PLASTER ON METAL LATH
FINISH WOOD
CONTINUOUS WOOD
BLOCKING / SHIM
PLYWOOD
EARTH
CAST STONE / SPRAY ON INSULATION / SAND / MORTAR
STEEL
ALUMINUM
STONE
GRAVEL
SEALANT
ROD STOCK & SEALANT

VICINITY MAP

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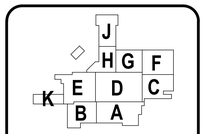
POOL/AQUATICS CONSULTANT NAME
T: 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

GENERAL PROJECT INFORMATION

G-002

0"
1"

General Information

Location: 11111 Telge Rd, Cypress, TX 77429

Architect: PBK Architects

Agency Information: Cypress-Fairbanks Independent School District

Reason for Submittal: Substantial Improvement

Responding Fire Department:

Authorities Having Jurisdiction: Harris County

Water Service: Harris County

Project Name: 2022 Arnold MS Renovation and Additions

Project Description
This project consists of demolition, renovation and addition.
Demolition scope includes rehearsal room, canopy, and other selected areas.
Addition scope includes new orchestra, new restrooms, and storage building.
Interior renovations include new flooring finishes, new wall finishes, casework replacement, ceiling and light replacement, new door hardware, reception.

Applicable Codes
The facilities are being designed to comply with the codes as listed below.

BUILDING : 2021 Edition; International Building Code
FIRE: 2021 Edition; Harris County Fire Code
MECHANICAL: State of Texas adopted IMC- Not reviewed/inspected by Harris County
ELECTRICAL: State of Texas adopted 2020 NFPA 70 (NEC)- Not reviewed by Harris County
PLUMBING: State of Texas adopted IPC- Not reviewed/inspected by Harris County
ACCESSIBILITY: 2012 Edition; Texas Accessibility Standards

Building Heights & Areas
Construction Type: IB, 100% sprinklered (IBC, 903)

Principal Occupancy: Group E
Accessory Occupancies:
Group A-1, A-3, Assembly
Group B-1, Business
Group U, Utilities
Group S1, Storage

Basic Allowable Area (Group E Occupancy):
Standard Allowable Square Footage (IBC, Table 506.2): Unlimited

Total Actual Square Footage of Building:
1st Level: 219,453 SF
Addition: 1,350 SF
Total: 220,803 SF

Note: Square footage has been provided for building code analysis purposes only. The Contractor shall not rely solely on this data for preparation of proposal.

Basic Allowable Height:
Allowable Stories: 6 (IBC, 503 & 504.2)
Actual Stories: 1
Allowable Height: 180 (IBC, 503 & 504.2)
Actual Height: 29'-7"

Occupancy Load & Exit Requirements
Total Occupant Load: 2,821
Additional occupancy (note 1): 13
Note 1: Additional occupancy refers to Orchestra and its accessory rooms, such as Ensemble, Storage, Practice room. Those are used by displaced studentes i.e. are considered non-simultaneous use spaces. That occupant load is used only to determine exit requirements of that portion.

Means of Egress Element	Max.
Exit Access Travel Distance (IBC, 1017.2)	250'-0"
Common Path of Egress Travel (IBC, 1006.2.1)	75'-0" (IBC, 1029.8)
Dead-End Limit (IBC, 1018.4)	50'-0"

Exit Access Stairways:
Exit access stairways that connect levels in the same story are not permitted as part of an accessible means of egress.
Exit access stairwats providing means of egress from mezzanies are permitted as part of an accessible means of egress. (IBC, 1009.3.1 Exception 1)

Stairway width:
Minimum stairway width is 44 inches (IBC, 1009.3.2)

Areas of Refuge:
(IBC, 1009.3.3 Exception 2) Areas of refuge are not required at stairways in buildings equipped throughout by an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.

Spaces with one exit or exit access doorway:
Occupancy Group A, B, E - Max. Occupant Load: 49 (IBC, Table 1015.1)

Spaces with two or more exits or exit access doorways required:
Any space with an occupant load of 501 to 1,000. (IBC, 1007.1.1)

Spaces with three or more exits or exit access doorways required:
Any space with an occupant load of 501 to 1,000. (IBC, 1007.1.2)

Separation distance of the exit doors or exit access doorways:
Not to be less than one-third of the length of the maximum overall diagonal dimension of the area served. (IBC, 1007.1.1, Exception 2)

30 CODE INFORMATION

ADDITION ASSEMBLIES

PRIMARY STRUCTURAL FRAME	2 HOUR	N782, X771, X772
BEARING WALLS		
EXTERIOR	2 HOUR	U905
INTERIOR	2 HOUR	NA
NON-BEARING WALLS AND PARTITIONS		
EXTERIOR		U905
INTERIOR		U419
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	2 HOUR	D780
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	1 HOUR	P921

1. UL ASSEMBLIES INDICATED ESTABLISH A BASIS OF PERFORMANCE. OTHER ASSEMBLIES MAY BE CONSIDERED AT THE DISCRETION OF THE ARCH. IF EQUIVALENT PERFORMANCE IS PROVIDED. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO ALL COMPONENTS OF THE ASSEMBLY.
2. PROTECT ALL CONDUIT, PIPES, DUCTS, AND MISC. PENETRATIONS THROUGH FIRE-RATED WALLS, FLOOR, AND OR ROOF ASSEMBLIES WITH FIRE SAFING INSULATION AND FIRE STOP SEALANT. REFER TO GUIDELINES FOR APPROPRIATE ASSEMBLIES.
3. PROVIDE DAMPERS AND OR LIGHT FIXTURE PROTECTION AS REQUIRED BY UL ASSEMBLIES.
4. PROVIDE SPRAY-ON FIREPROOFING PROTECTION FOR STRUCTURAL MEMBERS CROSSING FROM A FIRE-RATED ROOF ASSEMBLY AND OR A FIRE-RATED FLOOR ASSEMBLY INTO OTHER AREAS WITH ANY OTHER FIRE-RATED ASSEMBLY OR NO FIRE-RATED ASSEMBLY, FOR THEIR FULL LENGTH.
5. PERMANENTLY MARK ALL WALLS ABOVE CEILINGS AS FOLLOWS:
"FIRE-RATED WALL - PROTECT ALL OPENINGS"
LETTERS SHALL BE RED IN COLOR AND A MINIMUM OF 2 1/2 INCHES IN HEIGHT. PROVIDE A MINIMUM OF ONE MARKING PER STRUCTURAL BAY.
6. PERMANENTLY MARK SMOKE PARTITIONS ABOVE CEILINGS AS FOLLOWS:
"SMOKE PARTITION - PROTECT ALL OPENINGS"
LETTERS SHALL BE RED IN COLOR AND A MINIMUM OF 2 1/2 INCHES IN HEIGHT. PROVIDE A MINIMUM OF ONE MARKING PER STRUCTURAL BAY.

27 UL Assemblies
3/16" = 1'-0"

Occupant Load Calculations (IBC, Table 1004.1.2)

Function of Space (IBC, Table 1004.1.2)	SF per Occupant	Functional Area Type	Total SF	Occupant Load Overall Total	Occupant Load Overall Total (Note 1)
ENTIRE SCHOOL					
Accessory Storage, Mechanical Equipment Room	300 Gross	Storage & Mechanical	20,247	68	68
Educational - Classroom Area	32 SF*	Classrooms	63,440	1,983	1,983
Educational - Vocational	50	Classrooms	26,302	527	527
Business Area	150 Gross	Administration	10,640	71	71
Assembly without fixed seat Unconcentrated (tables and chairs)	15 Net	Cafeteria, Orchestra Room	1782	120	Note 1
Assembly without fixed seat Concentrated (chairs only-not fixed)	7 Net	Cafeteria	8814	1260	Note 1
Assembly with fixed seats	# seats	Gym		326	Note 1
Exercise Room	50	Weight Room	1346	27	27
Kitchens	200 Gross	Kitchen	4828	25	25
Library	50	Library	4528	91	Note 1
Stages and Platform	15	Stage	1355	91	Note 1
Lockers	50	Lockers	6,381	128	128
Medical	100	Medical	466	5	5
			Total	4,722	2,834

NOTE 1: If exercise room, cafeteria, auditorium, or library is used only for displaced students, then that occupant load is not added to the total occupant of the school. Those are considered non-simultaneous use spaces and that occupant load is used only to determine exit requirements of that portion.

*SF per Occupant calculated per TEA reduction.

26 OCCUPANCY CALCULATION

MINIMUM PLUMBING FIXTURES TABLE 2902.1:

TOTAL OCCUPANT LOAD: 2834 EDUCATION
DRINKING FOUNTAINS (1 PER 100)
REQUIRED: 29
PROVIDED: 31 (31 EXISTING + 0 ADDED)

SERVICE SINK: (1 SERVICE SINK)
REQUIRED: 1
PROVIDED: 3 (3 EXISTING + 0 ADDED)

FEMALE: 1417 OCCUPANTS
WATER CLOSETS (1 PER 50)
REQUIRED: 29
PROVIDED: 50 (46 EXISTING + 4 ADDED)

LAVATORIES (1 PER 50)
REQUIRED: 29
PROVIDED: 35 (32 EXISTING + 3 ADDED)

MALE: 1417 OCCUPANTS
WATER CLOSETS (1 PER 50)
REQUIRED: 29
PROVIDED: 36 (34 EXISTING + 2 ADDED)
URINALS (UP TO 67% OF MENS W.C.)
PROVIDED: 30 (28 EXISTING + 2 ADDED)

LAVATORIES (1 PER 50)
REQUIRED: 29
PROVIDED: 38 (35 EXISTING + 3 ADDED)

25 PLUMBING COUNT

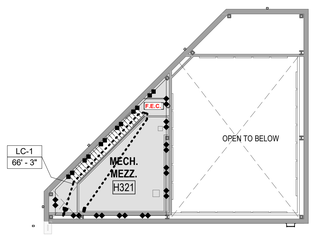
24 NOT USED

IBC, 1005.3

		Width Factor	DOL
Occupancy Load		---	4,722
Required Width	Doors	0.15	709"
	Stairs	0.2	N/A
Provided Width	Doors	0.15	1,404"
	Stairs	0.2	N/A

* Exterior signage, sign monuments, sprinklers and fire alarms shall be submitted and permitted separately.

18 EGRESS WIDTH



12 MECH.@MEZZANINE - FLOOR PLAN - AREA H
1/16" = 1'-0"

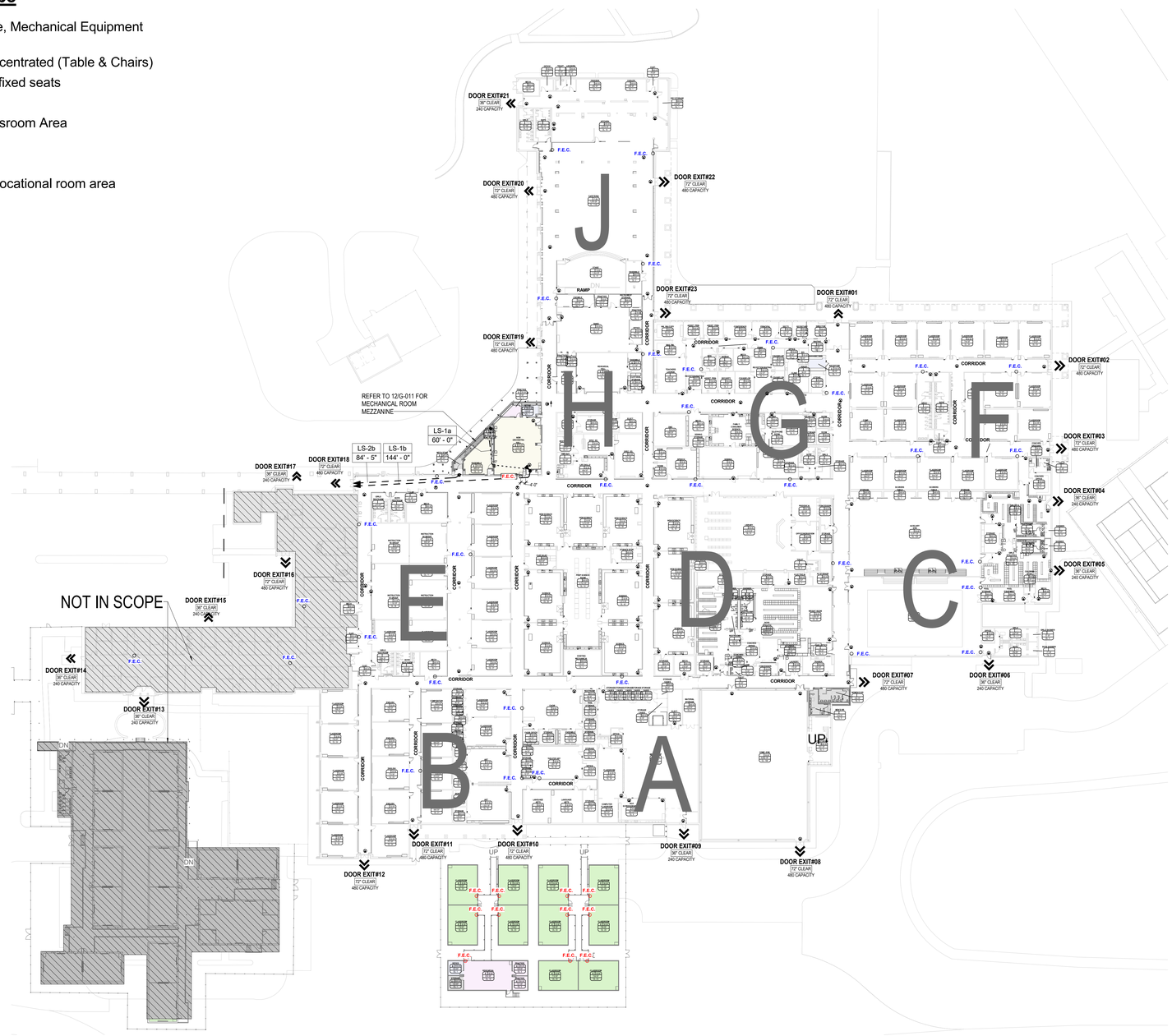
CODE COMPLIANCE SYMBOLS

- 1-HOUR FIRE RATING
- 2-HOUR FIRE RATING
- 3-HOUR FIRE RATING
- EGRESS TRAVEL PATH
- EGRESS COMMON TRAVEL PATH
- LS-1 / 150' - 0" — TRAVEL DISTANCE NAME / TRAVEL DISTANCE LENGTH
- EXIT SIGN
- 35" — EXIT WITH CLEAR EXIT WIDTH
- F.E.C. — NEW FIRE EXTINGUISHER CABINET
- 35" — EXIT DISCHARGE WITH CLEAR EXIT WIDTH
- F.E.C. — EXISTING FIRE EXTINGUISHER CABINET

06 CODE COMPLIANCE LEGEND

Occupancy Type

- Accessory Storage, Mechanical Equipment Room
- Assembly - Unconcentrated (Table & Chairs)
- Assembly without fixed seats
- Business
- Educational - Classroom Area
- No Scope
- Restroom
- Shops and other vocational room area



05 FIRST FLOOR - CODE COMPLIANCE PLAN
1" = 40'-0"

PBK
ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
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713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

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LANDSCAPE
EDDELAND GROUP
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STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343

MEP/T
LEAP
T 713-540-3300

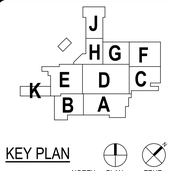
ACOUSTIC
ARPY
T 512-476-3654

FOOD SERVICE
RSH
T 281-286-2223

POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

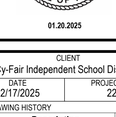
Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE



01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL - LIFE SAFETY EGRESS PLAN

G-011

ISSUE FOR PROPOSAL

1ST LEVEL - LIFE SAFETY EGRESS PLAN
G-011
FOR BLUEBEAM LABELING/OCR:

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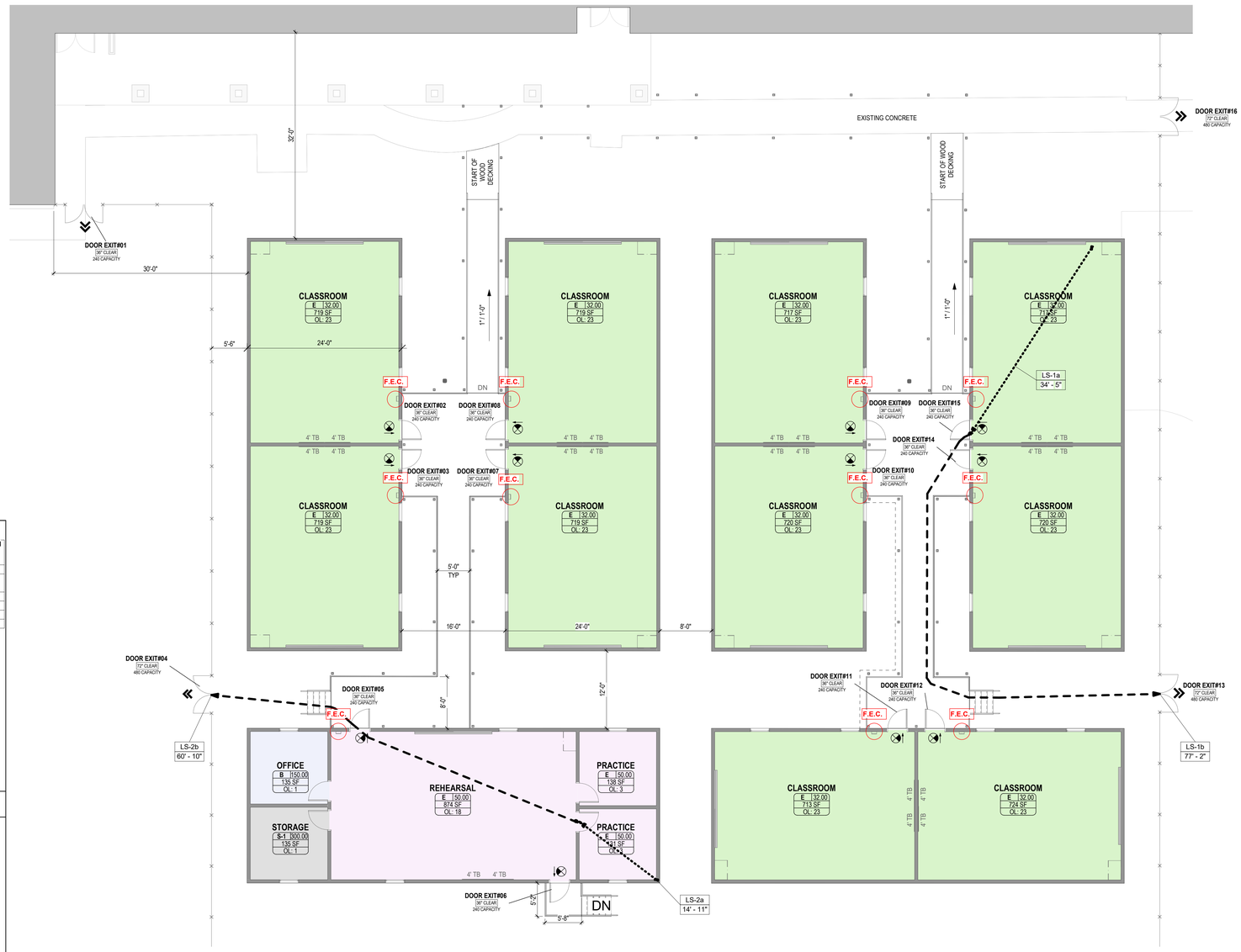
0"
1"

1ST LEVEL - LIFE SAFETY EGRESS PLAN - PORTABLES
G-012
FOR BLUEBEAM LABELING:OCR:

ISSUE FOR PROPOSAL

Occupancy Type

- Accessory Storage, Mechanical Equipment Room
- Business
- Educational - Classroom Area
- Shops and other vocational room area



Occupant Load Calculations (IBC, Table 1004.1.2)

Function of Space (IBC, Table 1004.1.2)	SF per Occupant	Functional Area Type	Total SF	Occupant Load Overall Total	Occupant Load Overall Total (Note 1)
ENTIRE SCHOOL					
Accessory Storage, Mechanical Equipment Room	300 Gross	Storage & Mechanical	135	1	1
Educational - Classroom Area	32 SF*	Classrooms	7,187	225	225
Educational - Vocational	50	Classrooms	1,143	23	23
Business Area	150 Gross	Administration	135	1	1
			Total	8,600	250

NOTE 1: If exercise room, cafeteria, auditorium, or library is used only for displaced students, then that occupant load is not added to the total occupant of the school. Those are considered non-simultaneous use spaces and that occupant load is used only to determine exit requirements of that portion.

*SF per Occupant calculated per TEA reduction.

12 OCCUPANCY LOAD CALC. - PORTABLE
1/16" = 1'-0"

CODE COMPLIANCE SYMBOLS

- 1-HOUR FIRE RATING
- 2-HOUR FIRE RATING
- 3-HOUR FIRE RATING
- EGRESS TRAVEL PATH
- EGRESS COMMON TRAVEL PATH
- LS-1 / 150' - 0" — TRAVEL DISTANCE NAME / TRAVEL DISTANCE LENGTH
- EXIT SIGN
- 35" — EXIT WITH CLEAR EXIT WIDTH
- F.E.C. — NEW FIRE EXTINGUISHER CABINET
- 35" — EXIT DISCHARGE WITH CLEAR EXIT WIDTH
- F.E.C. — EXISTING FIRE EXTINGUISHER CABINET

05 CODE COMPLIANCE LEGEND

04 PORTABLE BUILDINGS - CODE COMPLIANCE PLAN
1/8" = 1'-0"

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EDGELAND GROUP
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STRUCTURAL
KUBENKA ENGINEERS
T 713-942-7343
MEP/T
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ACOUSTIC
T 512-476-3654
FOOD SERVICE
RSD
T 281-356-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TEL GEF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

J H G F K E D C B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT BRANDON D. GRAY 27540 STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL - LIFE SAFETY EGRESS PLAN - PORTABLES

G-012

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ACCESSIBILITY GUIDELINES

G420

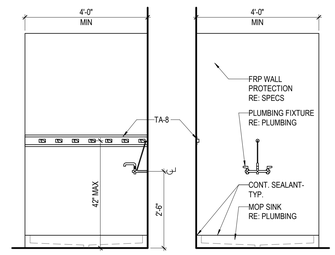
FOR BLUEBEAM LABELING:OCR:

0"

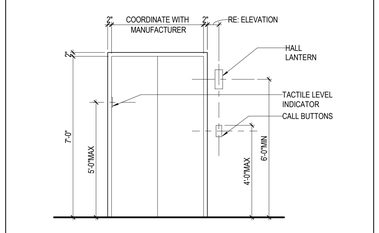
1"

ISSUE FOR PROPOSAL

06 ACCESSIBILITY - AGES 13 THRU ADULT (GRADES 8 AND ABOVE)
1/4" = 1'-0"

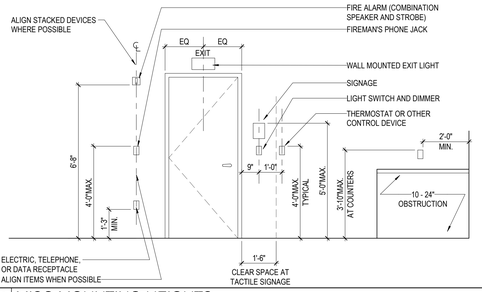


15 TYP CUSTODIAL CLOSET
1/2" = 1'-0"

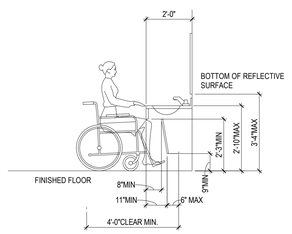


14 TYP ELEVATOR DOOR
3/8" = 1'-0"

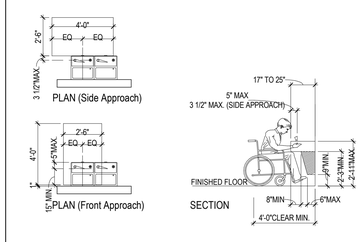
DESCRIPTION	Ages: 13 - Adult (Grades 8 and Above)
WATER CLOSET: To Top of Seat	17" - 19"
Grab Bar Height	33" - 36"
Flush Control Height	25" TYP 44" MAX
URINAL: Max. To Rim of Basin	17"
Flush Control Height (Max)	44"
LAVATORIES: Front Approach	
Knee Clearance (Min)	27"
To Top (Max)	34"
To Faucet (Max)	25"
FIXED OR BUILT-IN:	
Height of Tables or Counter:	28" - 34"
Knee Clearance (Min)	27"
SHELVES, DISPENSERS: Max. Height to Control Device	
Frontal Approach (Max)	48"
Side Approach (Max)	48"
DRINKING FOUNTAINS:	
To Spout (Max)	36"
Knee Clearance (Min)	27"
SWITCHES AND CONTROLS	
Frontal Approach (Max)	48"
Side Approach (Max)	48"
MIRRORS: Max. Height to Bottom of Reflective Surface	
At Lavatories and Counter Tops	40"
Full Length	35"
MIRRORS: Min. Height to Top of Reflective Surface	
Full Length	74"
TOILET PAPER DISPENSER: Height to Center of Roll (Max)	19"
PAPER TOWEL DISPENSER: Height to Operating Mechanism	48"
SHOWER	
Top of Seat	17" - 19"
Grab Bar	33" - 36"
To Hand Shower Head Mounting (Max)	48"
MARKER BOARDS / TACKBOARDS	COORD. MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALL



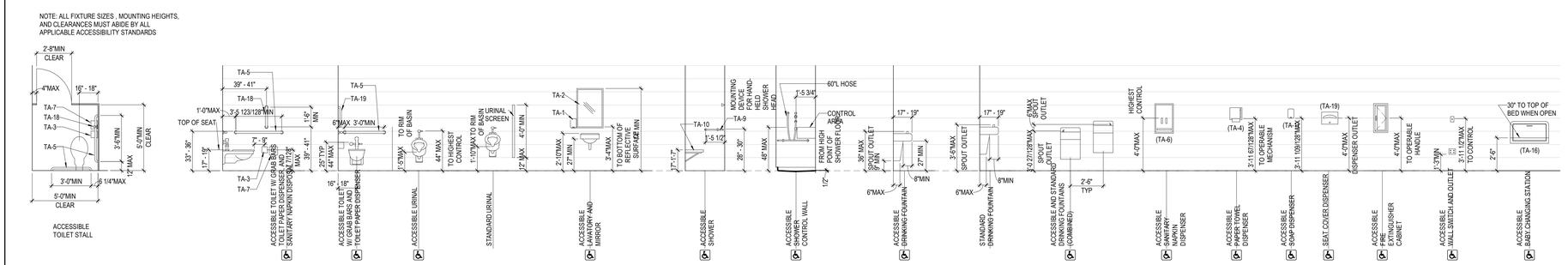
10 MISC MOUNTING HEIGHTS
3/8" = 1'-0"



09 ACCESSIBLE VANITY
3/8" = 1'-0"



08 DRINKING FOUNTAIN GUIDELINE
1/4" = 1'-0"



01 ACCESSIBILE MOUNTING HEIGHTS
1/4" = 1'-0"

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Author

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PBK

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PBK.com
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KUBENKA ENGINEERS
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MEPT
LEAF
T 713-340-3300
ACOUSTIC
T 512-476-3454
FOOD SERVICE
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ACCESSIBILITY GUIDELINES

G-020

PROPOSAL

FIRE RATED ASSEMBLIES

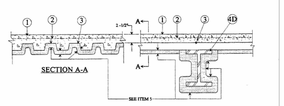
G430

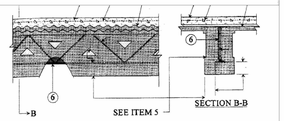
FOR BLUEBEAM LABELING/OCR:

Fire Assemblies & UL Listings

2 Hr. Floor Construction
UL Design No. D780

Design No. D780
Restrained Assembly Rating—1, 1-1/2, 2 or 3 h
Unrestrained Assembly Rating—1, 1-1/2, 2 or 3 h
(See Item 5)
Unrestrained Beam Ratings—1, 1-1/2, 2 or 3 h
(See Item 5)





1. **Normal Weight or Lightweight Aggregate Concrete**—Normal weight carbonate or siliceous aggregate concrete, 150 plus over minus 3 pcf unit weight, 3500 psi compressive strength, vibrated. Lightweight concrete, expanded shale, clay, or slate aggregate by rotary-kiln method, 110 plus over minus 3 pcf unit weight, 3500 psi compressive strength, 4 to 7 percent entrapped air.
2. **Welded Wire Fabric**—6 x 6—W2.0 X W2.0
3. **Steel Floor and Form Units**—No. 28 MSG galv corrugated sheet steel minimum. The description and sizes of the corrugated sheet steel units and the max beam spacing are as follows:

Steel Deck Unit In.	Nom Pitch In.	Sheet Steel Gauge MSG	Max Beam Spacing
9/16	2-1/2	28	3 ft, 6 in. O.C.
15/16	3-3/4	26	5 ft, 0 in. O.C.
1-5/16	5	26	6 ft, 6 in. O.C.
1-5/16	5	24	7 ft, 0 in. O.C.
1-5/16	5	22	7 ft, 6 in. O.C.
1-5/16	5	20	8 ft, 0 in. O.C.

Units welded to each steel beam, 36 welds per 100 sq ft of form units with at least one weld at each side joint. Welding of deck side joint between beams for deck spans ranging between 3 ft, 6 in. and 6 ft, 9 in. O.C. shall be at least two welds of each side joint. Welding of side joints for spans greater than 6 ft, 6 in. O.C. shall be a minimum of three welds of each side joint.
Any Manufacturer—Corrugated deck having cross-section similar to above description.

4. **Steel Joists**—10K1 or 16K2 min size with a max tensile stress of 30,000 psi or 12K3 min size with max tensile stress of 24,000 psi.

4A. As an alternate to Item 4, LH Series joists spanning no greater than 60 ft. For spans greater than 60 ft, deflection under the published total load shall not be greater than 1/277 of the joist span.

4B. **Composite Joists**—(Not shown)—As an alternate to Items 4 and 4A, steel joists designed for full composite action with the concrete slab. Min overall depth 13 in. Min area of joist members shall be 0.708 square in. for top and bottom chord angles and 0.442 square in. for web. Designed in accordance with SJI Specifications for K-Series joists as revised to November 18, 1989.

4C. **Structural Steel Members***—(Not shown)—As an alternate to Items 4, 4A and 4B—(Not shown)—Composite joists with top chord embedded in concrete slab. Welded to end supports. Min area of joist members shall be 0.708 square in. for top and bottom chord angles and 0.442 square in. for web.
Vescom Structural Systems, Inc.—Type V.

4D. **Steel Beams**—W8x28 min size. As an alternate to steel joists, Items 4, 4A, 4B and 4C.

4E. **Horizontal Bridging**—(Not shown)—Min 1-1/4 by 1-1/4 by 1/8 in. thick steel angles for use with noncomposite joists (Item 4). Number and spacing per Steel Joist Institute specifications. Welded to top and bottom chord of the joists. Min thickness of Spray-Applied Fire Resistive Materials on bridging angles is 1-1/2 in.

5. **Spray-Applied Fire Resistive Materials***—Applied by mixing with water and spraying in no more than one coat to a final thickness as shown below to steel surfaces which must be free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf, respectively. For method of density determination, see Design Information Section, Sprayed Materials.

Restrained Assembly Rating	Unrestrained Assembly Rating	Unrestrained Beam Rating	Deck	Beam	LH Joist	Spray-Applied Resistive Mtls Thk In. 10K1 Joist Spaced More Than 4 ft OC	Less OC	4ft or
1	1	1	3/8	7/16	1-1/8	1-1/8	15/16	
1-1/2	1	1	1/2	7/16	1-5/16	1-5/16	1-5/16	
1-1/2	1-1/2	1-1/2	1/2	3/4	1-1/2	1-5/8	1-7/16	
2	1	1	1/2	7/16	1-7/16	1-7/16	1-7/16	
2	2	2	5/8	1	1-1/2	2-3/16	1-15/16	
3	1-1/2	1-1/2	1/2	3/4	1-1/2	3-1/4	2-13/16	
3	3	3	7/8	1-5/16	3-1/4	3-1/4	2-13/16	

Restrained And Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray-Applied Fire-Resistive Mtls Min Thkns In. For 12K3 Or 16K2 Joists Spaced More than 4 ft OC	4 ft or Less OC
1	1	15/16	15/16
1-1/2	1-1/2	1-1/2	1-3/8
2	2	2-1/16	1-7/8
3	3	3-1/4	2-13/16

Arabian Vermiculite Industries—Types MK-6/CBF, -6/ED, -6/HY, -6s, Sonotex 5.
Grace Construction Products—Types MK-6/HY, MK-6s, RG, Sonotex 5.
Grace Korea Inc.—Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Sonotex 5.

5A. **Spray-Applied Fire Resistive Materials***—Applied by mixing with water and spraying in more than one coat to a final thickness as shown below to steel surfaces which must be free of dirt, loose scale and oil. Min avg and min ind density of 22/19 pcf, respectively. For method of density determination, see Design Information Section, sprayed materials.

Restrained Assembly Rating	Unrestrained Assembly Rating	Unrestrained Beam Rating	Deck	Beam	LH Joist	Spray-Applied Resistive Mtls Thk In. 10K1 Joist Spaced More Than 4 ft OC	Less OC	4ft or
1	1	1	9/16	7/16	1-1/8	1-1/8	15/16	
1-1/2	1	1	9/16	7/16	1-5/16	1-5/16	1-5/16	
1-1/2	1-1/2	1-1/2	9/16	3/4	1-1/2	1-5/8	1-7/16	
2	1	1	9/16	7/16	1-7/16	1-7/16	1-7/16	
2	2	2	5/8	1	1-1/2	2-3/16	1-15/16	
3	1-1/2	1-1/2	9/16	3/4	1-1/2	3-1/4	2-13/16	
3	3	3	7/8	1-5/16	3-1/4	3-1/4	2-13/16	

Restrained And Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray-Applied Fire-Resistive Mtls Min Thkns In. For 12K3 Or 16K2 Joists Spaced More than 4 ft OC	4 ft or Less OC
1	1	15/16	15/16
1-1/2	1-1/2	1-1/2	1-3/8
2	2	2-1/16	1-7/8
3	3	3-1/4	2-13/16

Arabian Vermiculite Industries—Types Sonotex 5, Z-106, Z-106/G, Z-106/HY.
Grace Construction Products—Types Sonotex 5, Z-106, Z-106/G, Z-106/HY.
Grace Korea Inc.—Types Sonotex 5, Z-106, Z-106/G, Z-106/HY.

6. **Metal Lath**—(Optional)—Metal lath may be used to facilitate the spray application of spray-applied resistive materials to steel bar joists and trusses. The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb per sq yd is secured to one side of each steel joist with No. 18 SWG galv steel wire at joist web and bottom chord members, spaced 15 in. OC max. When used, the metal lath is to be fully covered with spray-applied resistive materials with no min thickness requirements.

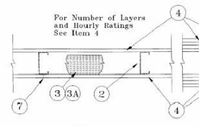
6A. **Nonmetallic Fabric Mesh**—(Optional, not shown)—Glass fiber mesh weighing approx 1.25 oz per sq yd, polypropylene fabric mesh, weighing approx 1.25 oz per sq yd or equivalent, may be used to facilitate the spray application. The mesh is secured to one side of each joist web member. The method of attaching the mesh must be sufficient to hold the mesh and the spray-applied resistive materials in place during application until it has cured. An acceptable method to attach the mesh is by embedding the mesh in min 1/4 in. long beads of hot melted glue. The beads of glue shall be spaced a max of 12 in. OC along the top chord of the bar joist. Another method to secure the mesh is by 1-1/4 in. long by 1/2 in. wide hairpin clips formed from No. 18 SWG or heavier steel wire.

7. **Shear Connector—Studs—Optional**—(Not shown) —Studs 3/4 in. diameter by 3 in. long headed type or equivalent per AISC specifications. Welded to the top flange of beam through the steel form units.

*Bearing the UL Classification Marking

1 Hr. Wall Construction
Non Bearing Interior
UL Design No. U419

Design No. U419
Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 3 & 4)



1. **Floor and Ceiling Runners** — (Not shown) — Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
3. **Batts and Blankets*** — (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or BZJQ) Categories** for names of Classified companies.

3A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJQ) Categories** for names of Classified companies.

4. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	3-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY —1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.
UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.
USG MEXICO S A DE C V —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

4A. **Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick gypsum panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of the screws as specified under Item 5.
CANADIAN GYPSUM COMPANY—Type FRX
UNITED STATES GYPSUM CO —Type FRX

4B. **Gypsum Board*** — (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 3. Joint covering (Item 7) not required.
CANADIAN GYPSUM COMPANY— Type SHX.
UNITED STATES GYPSUM CO —Type SHX.
USG MEXICO S A DE C V — Type SHX.

5. **Fasteners** — (Not shown) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer-1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three- layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 3/4 in. thick panels, spaced 24 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6. **Furring Channels** — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.

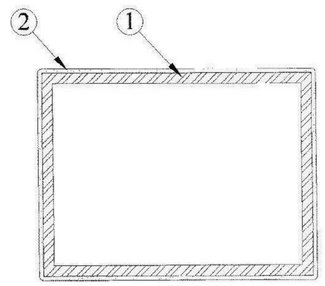
7. **Joint Tape and Compound** — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

8. **Siding, Brick or Stucco** — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

9. **Caulking and Sealants*** — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO —Type AS
*Bearing the UL Classification Mark

2 Hr. Column
(Structural Frame)
UL Design No. X630

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Steel Column** — Steel tube columns with the minimum sizes shown in the tables below. Columns shall be free of dirt, loose scale and oil. Column shall be primed with 0.003 in. dry film thickness of modified alkyd, epoxy, organic zinc or inorganic zinc based primer.
2. **Mastic and Intumescent Coating** — Coating spray, brush or trowel applied directly from containers to desired thickness. See table below for appropriate final dry thickness.

SIZE	A/P	1 HR	1-1/2 HR	2 HR
ST 4X4X1/2	0.44	0.127	0.238	340
ST 5X3X1/2	0.44	0.127	0.238	340
ST 5X5X1/2	0.45	0.127	0.238	340
ST 6X4X1/2	0.45	0.127	0.238	340
ST 6X6X1/2	0.46	0.127	0.238	340
ST 7X5X1/2	0.46	0.127	0.238	340
ST 7x7x3/8	0.35	0.127	NR	NR
ST 7X7X1/2	0.46	0.127	0.238	340
ST 8X4X1/2	0.46	0.127	0.238	340
ST 8X6X1/2	0.46	0.127	0.238	340
ST 8x8x3/8	0.36	0.127	NR	NR
ST 8X8X1/2	0.47	0.127	0.238	340
ST 8X8X5/8	0.58	0.127	0.238	340
ST 10x10x3/8	0.36	0.127	NR	NR
ST 10X10X1/2	0.48	0.127	0.238	340
ST 10X10X5/8	0.59	0.127	0.238	340
ST 10X10X3/4	0.46	0.127	0.238	340
ST 10x6x3/8	0.36	0.127	NR	NR
ST 10X8X1/2	0.47	0.127	0.238	340
ST 12x12x3/8	0.36	0.127	NR	NR
ST 12X12X1/2	0.48	0.127	0.238	340
ST 12x4x3/8	0.36	0.127	NR	NR
ST 12X4X1/2	0.47	0.127	0.238	340
ST 12X8X3/8	0.36	0.127	NR	NR
ST 12X8X1/2	0.47	0.127	0.238	340
ST 12x8x3/8	0.36	0.127	NR	NR
ST 12X8X1/2	0.48	0.127	0.238	340
ST 12X8X5/8	0.59	0.127	0.238	340
ST 14x10x3/8	0.36	0.127	NR	NR
ST 14X10X1/2	0.48	0.127	0.238	340

CARBOLINE CO — Type Nullifire S605. Investigated for Interior General Purpose and Exterior Use.(See Item 3)

3. **Topcoat** — For Interior General Purpose Type TS 615 top-coat applied over the base coat at 0.003 in. thickness. For Exterior Use Type Carboguard 1340 or Type Rustbond Penetrating Sealer FC intermediate coat applied over the base coat at 0.002 in. thickness and Type Carboguard 133HB or Type Carbothane 133VOC top-coat or Carbothane 133MC top-coat applied over the intermediate coat at 0.003 in. thickness.
***Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**
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2 Hr. Wall Construction
Typ. CMU Exceeds Requirement
UL Design No. U905

Design No. U905
September 30, 2010

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

1. **Concrete Blocks*** — Various designs. Classification D-2 (2 hr).

See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar** — Blocks laid in full bed of mortar, nom 3/8 in. thick, of not less than 2-3/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the fire side of the wall to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

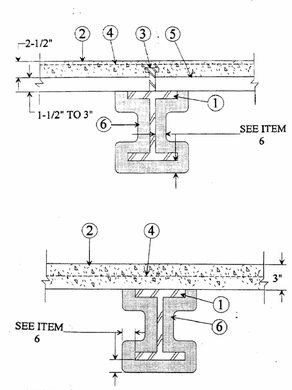
4. **Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Zonolite Zyla Process), water-repellant vermiculite masonry fill insulation, or silicone treated-perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic*** — (Optional-Not Shown) — 1-1/2 in. thick, max, 4 ft wide sheathing attached to concrete blocks (Item 1).

THE DOW CHEMICAL CO — Type Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Insulation and Thermax Heavy Duty Plus (HDO)

2 Hr. Beam
(Structural Frame)
UL Design No. N782

Design No. N782
Restrained Beam Ratings—1, 1-1/2, 2, 3 and 4 Hr
Unrestrained Beam Ratings—1, 1-1/2, 2, 3 and 4 Hr



1. **Steel Beam**—W8x28 min size.
2. **Normal Weight or Lightweight Concrete**—Compressive strength, 3000 psi. For normal weight concrete either carbonate or siliceous aggregate may be used. Unit weight, 148 pcf. For lightweight concrete unit weight 110 pcf.
3. **Shear Connector**—(Optional)—Studs, 3/4 in. diam headed type or equivalent per AISC specifications. Welded to the top flange of beam through the steel floor units.
4. **Welded Wire Fabric**—(Optional)—6x6-10/10 SWG.
5. **Steel Floor and Form Units***—1-5/16 in. deep corrugated units; or 1-1/2 to 3 in. deep fluted units welded to beam.
6. **Spray-Applied Fire Resistive Materials***—Applied by mixing with water and spraying in more than one coat to the beam to the final thicknesses shown below. When fluted or corrugated steel floor units are used, crest areas shall be filled with Spray-Applied Fire Resistive Materials above the beam. Beam surfaces must be clean and free of dirt, loose scale and oil. Min average and min ind. density of 15/14 pcf respectively. Min avg and min ind density of 22/19 pcf respectively for Types Z-106, Z-106/G. For method of density determination, see Design Information Section. The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the beams are supporting solid concrete slabs or floor assemblies containing only fluted floor or form units.

Rating-Hr.	Restrained Beam	Unrestrained Beam
1	7/16	7/16
1-1/2	11/16	1
2	11/16	1
3	1-3/16	1-5/16
4	1-5/8	1-5/8

Minimum Thickness - In.

The thickness of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by one-half and the beams are supporting solid concrete slabs or floor assemblies containing only fluted floor or form units.

Rating-Hr.	Restrained Beam	Unrestrained Beam
1	7/16+	7/16+
1-1/2	7/16+	3/4
2	11/16	1
3	1-3/16	1-7/16
4	1-11/16	1-15/16

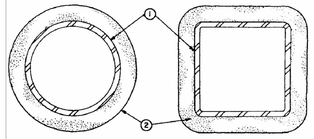
Minimum Thickness - In.

+—Thickness applied to beams' lower flange edges shall be a min of 1/4 in.

Arabian Vermiculite Industries—Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Sonotex 1, Sonotex 5, Z-106, Z-106/G.
Grace Construction Products—Types MK-6/HY, MK-6s, RG, Sonotex 1, Sonotex 5, Z-106, Z-106/G.
Grace Korea Inc.—Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Sonotex 1, Sonotex 5, Z-106, Z-106/G.
*Bearing the UL Classification Marking

2 Hr. Column
(Structural Frame)
UL Design No. X771

Design No. X771
Ratings—3/4, 1, 1-1/2, 2, 3 and 4 h



1. **Steel Pipe or Tube Column**—Steel circular pipe with diameter (OD) ranging from a minimum of 3 in. to a maximum of 32 in. with a minimum wall thickness of 3/16 in.
Steel square or rectangular tube with outside wall dimensions ranging from a minimum 3 in. to a maximum of 32 in. and a minimum wall thickness of 3/16 in.
The A/P ratio of the steel pipe or tube (see Item 2) shall range from 0.18 to 2.0.
2. **Spray-Applied Fire Resistive Materials***—Applied by mixing with water and spraying in one or more coats to steel surfaces which must be clean and free of dirt, loose scale and oil. Min avg and ind density of 15/14 pcf respectively. For method of density determination, see Design Information Section, preceding these designs.
The hourly rating of the structural member is dependent upon the ratio of A/P and the thickness of Spray-Applied Fire Resistive Materials, where A is the cross sectional area of the pipe or tube and P is the heated perimeter.
The A/P ratio of a circular pipe is determined by:
A/P pipe =

$$\frac{t(d\text{-}t)}{d}$$

Where:
d is the outer diameter of the pipe (in.)
t is the wall thickness of the pipe (in.)
The A/P ratio of a rectangular or square tube is determined by:
A/P tube =

$$\frac{t(a+b\text{-}2t)}{a+b}$$

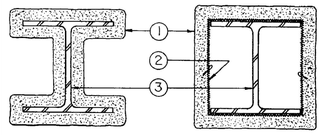
Where:
a is the outer width of the tube (in.)
b is the outer length of the tube (in.)
t is the wall thickness of the tube (in.)
The thickness of Spray-Applied Fire Resistive Materials for ratings of 3/4, 1, 1-1/2, 2, 3 and 4 h of a steel pipe or tube can be determined by the equation:

$$h = \frac{R - 0.20}{4.43\ (A/P)}$$

Where:
R is the hourly rating (hrs).
h is the thickness of Spray-Applied Fire Resistive Materials, minimum 1/4 in., maximum 3-7/8 in.
Construction Products Div. W. R. Grace & Co. of Canada Ltd.—Types MK-4, MK-5.
Grace Construction Products—Types MK-4, MK-5, MK-6/HY, MK-6s, RG.
Grace Korea Inc.—Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s.
Pyrok Inc.—Type LD.
Southwest Vermiculite Co., Inc.—Types 4, 5, 5EF, 5GP, 5MD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.
Vermiculite Prods. Inc.—Types MK-4, MK-5.
*Bearing the UL Classification Marking

2 Hr. Column
(Structural Frame)
UL Design No. X772

Design No. X772
Ratings—1, 1-1/2, 2, 3 and 4 h.



1. **Spray-Applied Fire Resistive Materials***—Applied by mixing with water and spraying in more than one coat to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min avg and min ind density of 15/14 pcf respectively. For method of density determination, see Design Information Section, Sprayed Material.
The thickness of Spray-Applied Fire Resistive Materials to be applied to all surfaces of the column (Item 1) required for rating periods of 1 h, 1-1/2 h, 2 h, 3 h, 4 h may be determined by the equation:

$$h = \frac{R}{1.05\ (W/D) + 0.61}$$

Where:
h = Spray-Applied Fire Resistive Materials thickness in the range 0.25-3.875 in.
R = Fire resistance rating in hours (1 - 4 h)
D = Heated perimeter of steel column in inches
W = Weight of steel column in lbs per foot
W/D = 0.33 to 6.62

As an alternate to the equation, the minimum thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contour sprayed or boxed columns may be determined from the table below:

Min Column Size	W/D	Min Thk (In) 1 h	1-1/2 h	2 h	3 h	4 h
W6X9	0.33	1-1/8	1-1/2	2	2-1/2	3-1/8
W6x16	0.57	13/16	1-1/4	1-11/16	2-1/2	3-5/16
W8x28	0.67	3/4	1-3/16	1-3/8	2	2-11/16
W10x49	0.83	11/16	7/8	1-1/8	1-11/16	2-1/2
W14x228	2.49	5/16	1/2	9/16	7/8	1-1/4
W14x730	6.62	5/16	5/16	5/16	3/8	9/16

The thicknesses contained in the table below are applicable when the Spray-Applied Fire Resistive Materials applied to columns' flange tips are reduced to one-half that shown in the table below:

Min Column Size	W/D	Min Thk (In) 1 h	1-1/2 h	2 h	3 h	4 h
W6x9	0.33	1-1/8	1-5/8	2-1/16	2-15/16	3-13/16
W6x16	0.57	7/8	1-5/16	1-3/4	2-9/16	3-3/8
W8x28	0.67	13/16	1-3/16	1-1/2	2-1/4	2-15/16
W10x49	0.83	3/4	1-1/16	1-3/8	2-1/16	2-3/4
W14x233	2.49	5/16	1/2	11/16	1-3/16	1-5/8
W14x730	6.62	5/16	5/16	5/16	9/16	3/4

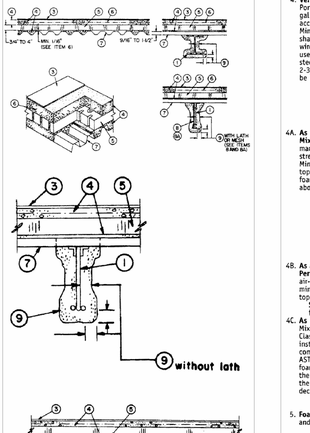
Construction Products Div., W. R. Grace & Co. of Canada Ltd.—Types MK-4 or MK-5.
Grace Construction Products—Types MK-4, MK-5, MK-6/HY, MK-6s, RG.
Grace Korea Inc.—Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s.
Pyrok Inc.—Type LD.
Southwest Vermiculite Co., Inc.—Types 4, 5, 5EF, 5GP, 5MD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.
Vermiculite Products, Inc.—Type MK-4 or MK-5.

2. **Metal Lath**—(Optional for contour application)—3.4 lb/sq yd galvanized or painted expanded steel lath. Lath shall be lapped 1 in. and tied together with No. 18 SWG galvanized steel; wire spaced vertically 6 in. O.C.

3. **Steel Column**—Wide flange steel column, min sizes as shown in the tables below.
*Bearing the UL Classification Marking

1 Hr. + Unrated Roof / Ceiling Assemblies
UL Design No. P921

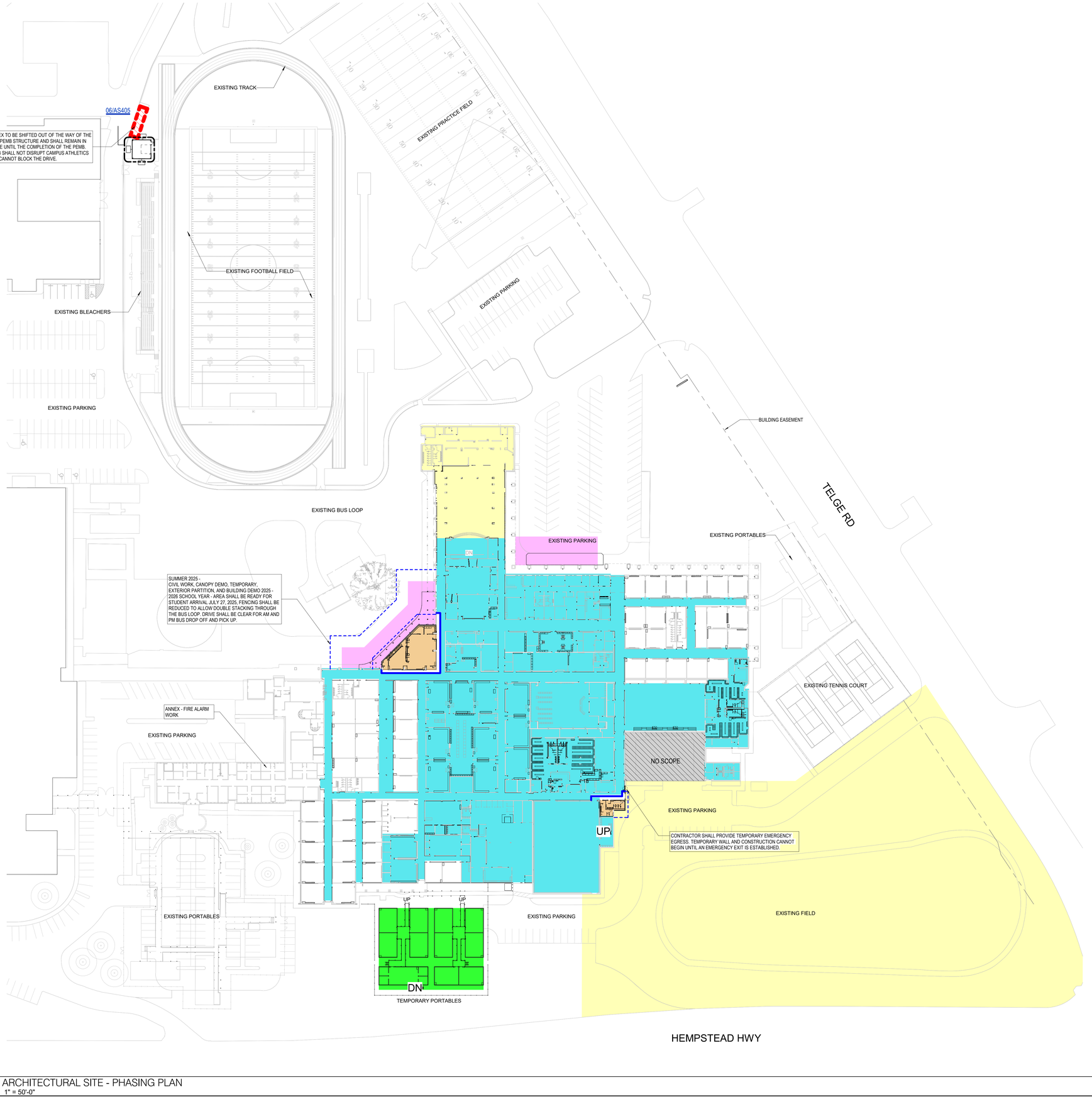
Design No. P921
Restrained Assembly Rating—1, 1 1/2 or 2 Hr (See Items 4, 6, 7 and 9)
Unrestrained Assembly Rating—0 Hr (See Item 7)
Unrestrained Beam Rating—1, 1 1/2 or 2 Hr (See Items 4, 6, 7 and 9)



1. **Supports**—W6X16 or W8X10 beam. As alternate to steel beams, Joist girders—(Not shown)—20 in. min depth and 13 lb/ft min ft min weight.
1A. **Steel Joists**—12K5 or heavier steel joist may be used as secondary support.
2. **Bridging Angles**—(Not shown)—1-1/4 by 1-1/4 by 1/8 in. thick angles for use with steel joists. Angles welded to top and bottom chords of the joists.
3. **Roof Covering***—Consisting of hot mopped or cold application materials compatible with insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials (TEVT).
3A. In lieu of Item 3, roof covering consisting of single-ply **Roofing Membrane*** that is either ballasted, adhered or mechanically attached as permitted under the respective manufacturer's Classification. See Fire Resistance Directory—Roofing Membranes (CHCI).
4. **Vermiculite Concrete**—6 cu ft of **Vermiculite Aggregate*** to 94 lb of Portland cement and 0.11 lb of air entraining agent mixed with approx 25 gal of water. Min compressive strength shall be 125 psi when tested in accordance with ASTM C495. Min thickness above faded plastic is 2 in. Min thickness between top of steel deck and bottom of foamed plastic shall be 1/16 in. when wire mesh (Item 6) is used and 1/8 in. when the wire mesh is not used. When foamed plastic (Item No. 5 or 5A) is not used the topping thickness of Vermiculite Concrete over the crests of steel deck shall be a min of 2-3/16 in. for the 1 and 1-1/2 h ratings and 2-3/8 in. for the 2 h rating. The max vermiculite concrete thickness shall be determined by job site conditions.
Mandoval Ltd.
Mandoval Vermiculite Products, Inc.
Palmetto Vermiculite Co., Inc.
Siplast Inc.
Strong-Lite Products Corp.
Vermiculite Products, Inc.

4A. **As an alternate to Item 4, Cellular Concrete —Roof Topping Mixture***—Cellular concentrate mixed with water and Portland cement per manufacturer's specifications. Cast dry density and 28-day compressive strength of min 150 psi as determined in accordance with ASTM C495-66. Min thickness above foamed plastic is 2 in. Min thickness between the top of steel deck and the bottom of foamed plastic shall be 1/8 in. When foamed plastic is used, the min thickness of Roof Topping Mixture* above the top of the steel deck shall be 2-3/4 in.
Celcore Inc.—Cast dry density of 33 (+ or -) 3.0 pcf.
Cellufoam Concrete Systems

0"
1"



06 ARCHITECTURAL SITE - PHASING PLAN
1" = 50'-0"

PHASING PLAN

1. All work during the school year must be coordinated with the owner to allow for minimal disruption to the campus.
2. Existing Fire Alarm to be full functional during construction, when full new fire alarm system is replaced and approved by the HCFMO, the existing may be fully removed.
3. Temporary partitions:
   Side facing school shall be floated and painted. Temporary wall locations shown are required, and any additional temporary walls required by the contractor shall be included in the proposal. Exterior partitions shall be waterproofed and tied into existing building.
4. May - September the central plant serving Cy-Fair High School and Arnold Middle School will be completely shut down for equipment change out. While there is no central plant work in the Arnold MS Renovation package, a temporary chiller rental will be funded through the Owner's Contingency Allowance during the shut down to keep the campus running at full capacity.
5. Temporary buildings:
   This work shall be completed prior to july 27, 2025 to allow campus to use as a classroom swing space during the school year. Classrooms shall be moved into swing space, one time, in agreed upon groupings. G.c. Shall complete work within the classrooms and campus will reoccupy the classrooms.
6. Unless otherwise noted, all temporary fencing shall be 6'-0" tall chain link fencing. Gc shall maintain all fencing and ensure a safe pathway for students. Temporary canopies to be a 2x4 system to corrugated metal tops.
7. Additions:
   Orchestra Addition - Work may begin immediately. Existing Orchestra class will remain in existing Orchestra during construction. Existing rehearsal shall be relocated to a portable building prior to construction beginning. GC shall establish temporary partitions and fencing to separate construction and student activity prior to construction beginning. Work done during the school year shall maintain space for double stacking buses for AM and PM pick up and drop off.
   Restroom Addition - Addition may begin after the new emergency exit is established and temporary partitions have been installed. Fire lane must be maintained throughout construction.
8. Corridor Work:
   All work shall be anticipated to take place over the summer. Classroom corridors may allow work done at the same time work is being completed in the associated classrooms, but shall be coordinated with CFISD and campus prior to any work taking place.
9. MEPT Scope:
   Work below shall begin and be completed Summer 2026
   - Generator Replacement
   - Switch Board Scope
   - All work in MDF/IDF
   - Structured Cabling Replacement (CFISD)
10. Gymnasiums:
    Summer 2025 both gymnasiums will be unaccessible for the first three weeks of Summer for gym flooring refinish. Flooring refinishing, in contract, must take place Summer 2026.

PHASING PLAN LEGEND

- ADDITIONS
- SUMMER 2025 - CIVIL WORK
  Work may begin June 1 and must be completed before campus return, July 27, 2025
- SUMMER 2025 OR SUMMER 2026
  Scope of work to be completed Summer 2025 or Summer 2026
- SUMMER 2026
  Scope of work to be completed Summer 2026 only.
- TEMPORARY PORTABLES
- TEMPORARY CONSTRUCTION FENCE
- TEMPORARY INTERIOR PARTITION
- TEMPORARY EXTERIOR PARTITION

PBK
ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
BROOKS & SPARKS
T 281-578-5998
LANDSCAPE
EDGELAND GROUP
T 713-802-1000
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEPT
LEAP
T 713-840-3300
ACOUSTIC
SPECTRUM
T 512-476-3664
FOOD SERVICE
RSC
T 281-356-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

J H G F
K E D C
B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT BRANDON D. NEAL 27548 STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

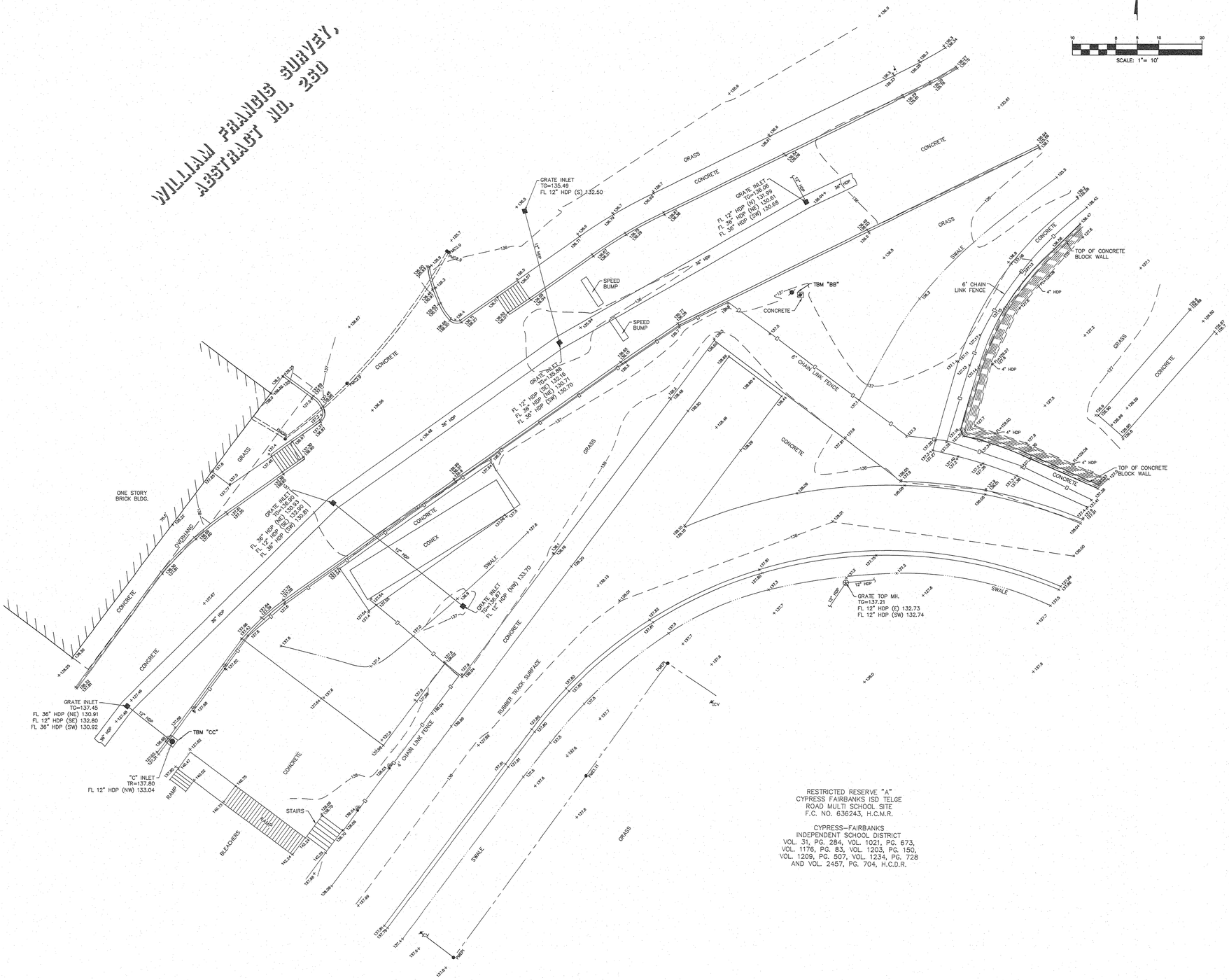
PHASING PLAN

G-053

ISSUE FOR PROPOSAL

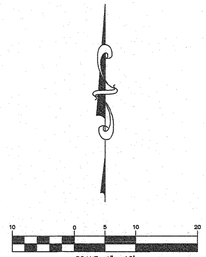
File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt
CHECKED BY: Checker
DRAWN BY: Author
Plot Stamp: 2/14/2025 8:17:27 AM

WILLIAM FRANCIS SURVEY, ABSTRACT NO. 260

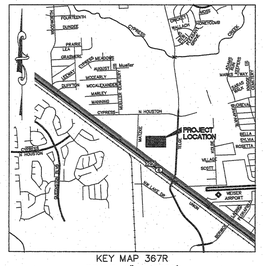


RESTRICTED RESERVE "A"
CYPRESS FAIRBANKS ISD TELGE
ROAD MULTI SCHOOL SITE
F.C. NO. 636243, H.C.M.R.

CYPRESS-FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
VOL. 31, PG. 284, VOL. 1021, PG. 673,
VOL. 1176, PG. 83, VOL. 1203, PG. 150,
VOL. 1209, PG. 507, VOL. 1234, PG. 728
AND VOL. 2457, PG. 704, H.C.D.R.



VICINITY MAP



KEY MAP 367R
SCALE: 1" = 3000'

LEGEND

- "C" INLET
- FIRE HYDRANT
- GATE POST
- GRATE TOP MANHOLE
- INLET
- ICV IRRIGATION CONTROL VALVE
- PMC PAINT MARKER (COMMUNICATIONS)
- PME PAINT MARKER (ELECTRIC)
- SIGN
- WATER VALVE

ABBREVIATIONS

FC–FILM CODE
FL–FLOW LINE
H.C.D.R.–HARRIS COUNTY DEED RECORDS
H.C.M.R.–HARRIS COUNTY MAP RECORDS
HDP–HIGH DENSITY POLYETHYLENE PIPE
PG.–PAGE
TG–TOP OF GRATE
TR–TOP OF RIM
VOL.–VOLUME

SURVEYOR'S NOTES:

1. ACCORDING TO F.I.R.M. MAP NO. 48201C0410M (COMMUNITY–PANEL NO. 480287041OM), MAP REVISED DATE: OCTOBER 16, 2013. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

2. ALL UTILITIES SHOWN HEREON ARE LOCATED USING "APPARENT & VISIBLE" EVIDENCE BY ON-SITE OBSERVATION UNLESS OTHERWISE NOTED.

3. THE SUBJECT TRACT IS AFFECTED BY THE CITY OF HOUSTON ORDINANCE No. 85-1878, AMENDED BY ORDINANCE No. 1999-262.

4. UNDERGROUND UTILITY LOCATIONS PROVIDED BY LONESTAR LOCATING, LLC. PAINT MARKS WITH NUMERIC VALUES INDICATES COVER (FEET AND INCHES) DETERMINED BY ELECTRONIC TONING.

ALWAYS CONTACT TEXAS 811 PRIOR TO DIGGING. SOME UTILITIES SUCH AS FIBER OPTIC W/O TRACERS, PLASTIC GAS, FIBERGLASS/PVC ARE NOT LOCATABLE BY TRANSMISSION SIGNAL.

5. → INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB-OUT.

REFERENCE BENCHMARK:

RM110140 – BRASS DISK STAMPED "K100 BM12" ON THE EAST SIDE OF THE NORTH BOUND BRIDGE ON TELGE ROAD OVER CYFRESS CREEK AT CENTERLINE OF STREAM, IN KEY MAP 368J, IN THE CYPRESS CREEK WATERSHED.
ELEVATION = 139.71' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "BB" – BOX CUT ON THE NORTHWEST CORNER OF A CONCRETE PAD FOR A WATER VALVE LOCATED ±25' NORTHEAST OF THE MOST NORTHERLY CORNER OF THE TRACK.
ELEVATION = 137.11'

TBM "CC" – BOX CUT ON "C" INLET LOCATED ±20' NORTHWEST OF THE NORTH CORNER OF THE BLEACHERS.
ELEVATION = 137.83'

TOPOGRAPHIC SURVEY

SV01

TO: CYPRESS–FAIRBANKS INDEPENDENT SCHOOL DISTRICT

THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS' MANUAL OF PRACTICE REQUIREMENTS FOR A CATEGORY 6, CONDITION I SURVEY AND THE CURRENT MINIMUM REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYING ACT.

STATE OF TEXAS · REGISTERED · JOEL D. WALKER · 5189 · PROFESSIONAL LAND SURVEYOR

7/22/24
DATE

JOEL D. WALKER, R.P.L.S.
TEXAS REGISTRATION NO. 5189

CYPRESS–FAIRBANKS INDEPENDENT SCHOOL DISTRICT

LIMITED TOPOGRAPHIC SURVEY

ARNOLD MIDDLE SCHOOL
OUT OF THE
WILLIAM FRANCIS SURVEY,
ABSTRACT NO. 260
HARRIS COUNTY, TEXAS

WEST BELT
SURVEYING, INC.
21020 PARK ROW
KATY, TX. 77449
PHONE: (281) 599-8888
FAX: (281) 492-0050
CERTIFIED FIRM NO. 10078800

NO.	DATE	REVISIONS	BY

DRAWN BY: MDL	CHECKED BY: KMH
SCALE: 1"=10'	APPROVED BY: JDW
PROJECT NO. S725-0096E	DATE: JULY 22, 2024

22 Jul 2024 12:39PM mark
G:\sdsk\proj\S725096E\DWG\T071624.dwg

ISSUE FOR PROPOSAL

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION SCHEDULE WITH THE ENGINEER AND/OR ARCHITECT PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL CONTACT ALL GOVERNING AGENCIES A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION AND COORDINATE ALL WORK WITH THE SAME.
3. WHETHER SHOWN ON DRAWINGS OR NOT THE CONTRACTOR SHALL PROVIDE ALL PIPING, APPURTENANCES, AND MISCELLANEOUS FITTINGS REQUIRED TO ACCOMPLISH THE DESIGN AS DRAWN AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL CONTACT ENGINEER IF UNSURE OF PIPING LAYOUT, SIZES OR LENGTHS.
4. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING ANY WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPORT ANY DISCREPANCIES TO THE ENGINEER IN A TIMELY MANNER.
5. ALL DIMENSIONS SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED BY THE CONTRACTOR. CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENT ARE TO BE APPROVED BY THE ENGINEER.
6. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED FROM AN ON THE GROUND OBSERVATION, SURVEY AND EXISTING CONSTRUCTION DRAWINGS REGARDING THE TOPOGRAPHIC FEATURES, ELEVATIONS AS WELL AS THE LOCATION AND NATURE OF PIPELINES, NATURAL GAS LINES, UNDERGROUND CABLES, UTILITIES, ETC. HOWEVER, THE ACCURACY OF OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO PRECLUDE DAMAGE TO EXISTING UTILITIES. IN THE EVENT THAT UNDERGROUND UTILITIES NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
7. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK IN ANY RIGHT-OF-WAY OR EXISTING EASEMENT. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567, 1-800-545-6005 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
8. SOME OF THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON HAVE NOT BEEN FIELD VERIFIED.
9. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL "POINTS OF CROSSING" TO DETERMINE IF CONFLICT EXISTS BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT.
10. IN THE EVENT OF DAMAGE TO UNDERGROUND UTILITIES OR FACILITIES, WHETHER SHOWN OR NOT ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO REPLACE THE UTILITY OR FACILITY BACK IN SERVICE AT NO INCREASE IN THE CONTRACT PRICE. ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY SERVICING THE FACILITY.
11. ALL EXISTING POWER POLES, LIGHT STANDARDS, SIGNS, ETC. WHICH AFFECT THE PROPOSED CONSTRUCTION, SHALL BE REMOVED AND/OR RELOCATED AS REQUIRED WHETHER SHOWN ON DRAWINGS OR NOT AT NO ADDITIONAL COST TO THE OWNER.
12. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL ADHERE TO THE STANDARDS OF THE GOVERNING AUTHORITY.
13. INGRESS AND EGRESS SHALL BE PROVIDED AT ALL TIMES FOR THE PROPERTY OWNERS AND BUSINESSES OF THE ABUTTING PROPERTY AND THE CROSS STREETS WHICH ARE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
14. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAINTAINING A SAFE PROJECT SITE 24 HOURS A DAY.
15. DURING THE ENTIRE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION WARNING SIGNS AT EACH END OF THE PROJECT TO WARN MOTORING AND PEDESTRIAN TRAFFIC THAT CONSTRUCTION IS IN PROGRESS AND OF POSSIBLE HAZARDOUS CONDITIONS GENERATED BY THE CONSTRUCTION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELINEATING THE PERIMETER OF CONSTRUCTION AREA WITH CONSTRUCTION FENCING AT NO ADDITIONAL COST. CONSTRUCTION FENCING SHALL BE ERECTED PRIOR TO CONSTRUCTION AND REMOVED UPON COMPLETION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING TRAFFIC IN THE IMMEDIATE VICINITY OF CONSTRUCTION. ALL WORK SHALL BE IN SUCH A MANNER AND SEQUENCE AS TO PROVIDE MAXIMUM PROTECTION TO TRAFFIC AND PEDESTRIANS. CONTROLS SHALL BE CONSISTENT WITH THE TYPE OF WORK BEING PERFORMED.
18. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.T.C.D. MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
19. DELINEATORS SHALL BE INSTALLED ALONG THE PAVEMENT EDGE TO WARN TRAFFIC OF ANY ROADSIDE OBJECTS OR HAZARDS AND TO DELINEATE THE ROADWAY EDGE DURING HOURS OF DARKNESS.
20. THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OF DIRECT PUBLIC ACCESS.
21. UNOCCUPIED TRENCHES SHALL BE SECURED WITH SAFETY "SNOW" FENCING OR OTHER APPROPRIATE MEANS AT ALL TIMES. TRENCHES WHICH ARE NOT IMMEDIATELY BACKFILLED SHALL BE SECURELY COVERED OVERNIGHT AND BE SURROUNDED BY SAFETY "SNOW" FENCING.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SECURITY TO PROTECT HIS OWN PROPERTY, EQUIPMENT, AND WORK IN PROGRESS.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ADEQUATE DRAINAGE BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE GOVERNING AUTHORITY AND/OR ENGINEER..
24. CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF ANY TEMPORARY DITCH OR DRAINAGE FACILITIES REQUIRED TO MAINTAIN ADEQUATE SITE DRAINAGE DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER
25. THE CONTRACTOR IS TO INSTALL GROUND WATER CONTROL FACILITIES IF NEEDED, AT DIRECTION OF ENGINEER AT NO ADDITIONAL COST TO OWNER.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS REQUIRED BY ALL GOVERNING AGENCIES.
27. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION AND SUBMISSION OF ALL APPLICABLE STATE AND FEDERAL FORMS REQUIRED FOR STORM WATER POLLUTION PREVENTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, IMPLEMENTATION, MAINTENANCE, AND INSPECTION OF STORM WATER POLLUTION PREVENTION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, EROSION AND SEDIMENT CONTROLS, STORM WATER MANAGEMENT PLANS, WASTE COLLECTION AND DISPOSAL, OFF-SITE VEHICLE TRACKING, AND OTHER PRACTICES.
28. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING.
29. THE CONTRACTOR SHALL DESIGN AND PROVIDE A TRENCH SAFETY SYSTEM TO MEET APPROPRIATE REQUIREMENTS ESTABLISHED IN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY & HEALTH REGULATIONS, 29 CFR 1926, SUBPART P - EXCAVATIONS, TRENCHING AND SHORING, AND OSHA'S PROPOSED STANDARDS ON TRENCHING, EXCAVATION PUBLISHED IN VOLUME 52, NO. 72 OF THE FEDERAL REGISTER, APRIL 15, 1987, PAGES 12288-12339. SHOULD THE REFERENCED OSHA STANDARDS BE MODIFIED OR AMENDED, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
30. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION.
31. IN ORDER TO COMPLY WITH HANDICAP REGULATIONS, THE CONTRACTOR SHALL ENSURE THAT THE SLOPE OF THE SIDEWALK AND/OR PAVING IN THE FIRST FIVE FEET OUTSIDE ANY DOOR DOES NOT EXCEED 2% IN ANY DIRECTION.
32. THE TEXAS DEPARTMENT OF TRANSPORTATION TxDOT 2004 STANDARD SPECIFICATIONS AND STANDARDS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES SHALL BE CONSIDERED PART OF THESE PLANS AND USED AS THE SPECIFICATIONS FOR ITEMS EXCEPT AS SHOWN OTHERWISE ON PLANS OR IN THE PROJECT SPECIFICATIONS.
33. NO CONSTRUCTION WHICH BLOCKS TRAFFIC ON ANY STREET, ALLEY, OR DRIVEWAY WILL BE ALLOWED DURING THE HOURS OF 6:30 A.M. - 8:30 A.M. AND 2:30-6:00 P.M.
34. THE CONTRACTOR MUST CLEAN MUD, DIRT OR DEBRIS TRACKED ONTO EXISTING STREETS BY HIMSELF OR SUBCONTRACTOR'S VEHICLES AND EQUIPMENT DAILY OR AS DIRECTED BY ENGINEER.
35. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
36. ALL AREAS DISTURBED BY CONSTRUCTION WHICH ARE NOT TO BE REPAVED OR OTHERWISE COVERED SHALL BE HYDROMULCHED.
37. CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL. TOPSOIL SHALL BE SPREAD OVER ALL AREAS RECEIVING SOD AND OR HYDROMULCH. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AN 85% STAND OF GRASS WITH NO AREAS OF EROSION BEFORE FINAL ACCEPTANCE.
38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL WASTE MATERIAL GENERATED DURING CONSTRUCTION. WASTE MATERIAL MUST BE REMOVED FROM THE WORK SITE AND DISPOSED OF IN SUCH A MANNER AS TO NOT DAMAGE THE OWNER OR OTHER PERSONS AT NO ADDITIONAL COST.
39. ALL FILL PLACED ON SITE SHALL BE ENGINEERED FILL PER THE RECOMMENDATION OF THE SOILS REPORT OR AS INDICATED IN THE SPECIFICATIONS.
40. FINISH GRADE ELEVATIONS INDICATE FINAL GRADE OF PROPOSED MATERIAL (I.E. SOD, DIRT, MULCH, ETC.). LANDSCAPED AREAS ADJACENT TO BUILDING, INCLUDING, DIRT, MULCH, AND/OR BEDDING MATERIALS SHALL NOT COVER WEEPHOLES. AREAS ADJACENT TO BUILDING, LANDSCAPED, OR OTHERWISE SHALL SHEET FLOW AWAY FROM BUILDING WITH NO AREAS OF STANDING WATER ADJACENT TO BUILDING.
41. GRADING AROUND BUILDINGS INCLUDING WALKWAYS SHALL BE COORDINATED WITH ENGINEER AND/OR ARCHITECT AND FINAL APPROVAL OF GRADES IN GRASS AREAS AND SWALES SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION OF LANDSCAPING MATERIALS.
42. AFTER INSTALLATION OF DRAINAGE SYSTEM, CONTRACTOR SHALL PERFORM FINAL GRADING AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY ENGINEER OR OWNER TO INSURE POSITIVE DRAINAGE OF ENTIRE SITE. FINAL GRADING SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION OF GRASS.
43. THE CONTRACTOR SHALL COORDINATE FINAL GRADING OF LANDSCAPED AREAS WITH THE LANDSCAPE ARCHITECT.
44. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FINAL GRADES TO ENSURE POSITIVE DRAINAGE.
45. PLACE BACKFILL AS PROMPTLY AS PRACTICABLE AFTER COMPLETION OF EACH STRUCTURE OR PORTION OF A STRUCTURE, DO NOT PLACE BACKFILL AGAINST CONCRETE WALLS OR SIMILAR STRUCTURES UNTIL CONCRETE HAS CURED AT LEAST SEVEN (7) DAYS.
46. ALL STRUCTURES AND SEWER PIPE UNDER OR WITHIN TWO (2) FEET OF PROPOSED OR FUTURE PAVEMENT SHALL BE BEDDED AND BACKFILLED WITH CEMENT STABILIZED SAND UP TO THE BOTTOM OF THE PAVEMENT SUBGRADE.
47. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1-1/2 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS EIGHT (8) INCHES THICK MAXIMUM AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
48. WHERE PAVEMENT OR CURB IS BEING REMOVED AND REPLACED FULL DEPTH SAW CUT SHALL BE PERFORMED AT STREET CONNECTION.
49. CONCRETE PAVEMENT SHALL HAVE MINIMUM OF FIVE AND ONE-HALF SACKS OF CEMENT PER CUBIC YARD AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS.
50. ALL STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
51. DETAILING AND FABRICATION OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI-318 LATEST EDITION.
52. LAP ALL CONTINUOUS REINFORCING STEEL 36 DIAMETERS AT SPLICES, TEES, AND CORNERS UNLESS NOTED OTHERWISE ON PLANS.
53. WHERE CONCRETE CURB OR WALK IS INDICATED, ELEVATION SHALL BE 6 INCHES ABOVE TOP OF PAVEMENT ELEVATION SHOWN, UNLESS OTHERWISE SHOWN ON DRAWINGS.
54. MOW STRIPS SHALL BE INSTALLED SO AS NOT TO BLOCK ANY SHEET FLOW PATTERNS AS DESIGNED. ANY MOW STRIPS THAT BLOCK DRAINAGE SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. IF CONTRACTOR HAS ANY QUESTIONS ON CORRECT ELEVATIONS FOR MOW STRIPS, CONTACT ENGINEER OR ARCHITECT.
55. A FIBERBOARD EXPANSION JOINT SHALL BE PLACED BETWEEN THE BUILDING FOUNDATION AND THE CONCRETE PAVEMENT.
56. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL PROPOSED UTILITIES EXITING BUILDING PRIOR TO COMMENCING WORK ON SITE UTILITIES. UPON ANY DISCREPANCIES, ENGINEER IS TO BE NOTIFIED.
57. ELECTRIC METER AND SERVICE LINE INSTALLATION TO BE COORDINATED WITH ELECTRICAL PROVIDER BY THE CONTRACTOR.
58. GAS METER AND SERVICE LINE INSTALLATION TO BE COORDINATED WITH GAS COMPANY BY THE CONTRACTOR.
59. IF WITHIN THE CITY OF HOUSTON A STORM WATER QUALITY PERMIT IS REQUIRED FOR THIS PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING ITEMS:

    A.) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PROVIDE THE CITY OF HOUSTON WITH A PERFORMANCE BOND FOR ALL STORM WATER QUALITY PERMITS ISSUED BY THE CITY OF HOUSTON STORM WATER QUALITY DEPARTMENT.
60. THE CONTRACTOR WILL JET ALL DEBRIS OUT OF THE FLOATABLES COLLECTION SCREEN UNITS INSTALLED AND WILL PROVIDE THE ENGINEER WITH AN AS-BUILT SURVEY, SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR, SHOWING POSITIVE DRAINAGE PRIOR TO ENGINEER ISSUING AN AS-BUILT CERTIFICATE TO THE GOVERNING AGENCY.
61. CONTRACTOR IS RESPONSIBLE FOR PUMPING OUT STORM WATER QUALITY UNITS AND PROVIDING THE ENGINEER WITH A MANIFEST STATING THAT THE SILT AND DEBRIS WAS DISPOSED OF IN A LEGAL MANNER. MANIFEST AND TIME STAMPED PICTURES OF THE CLEAN UNITS MUST BE PROVIDED PRIOR TO ENGINEER SUBMITTING THE STORM WATER QUALITY AS-BUILT CERTIFICATE. CONTRACTOR TO NOTIFY ENGINEER WHEN PUMP OUT WILL TAKE PLACE.

STORM SEWER CONSTRUCTION NOTES

1. ON SITE STORM SEWERS 12-INCH DIAMETER AND LARGER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE (PER AASHTO M-294, TYPE S, HANCOR SURE-LOK F477 PIPE, OR APPROVED EQUAL,) UNLESS OTHERWISE SHOWN ON PLANS. PRODUCT MUST HAVE GASKET JOINTS.
2. ON SITE STORM SEWERS 10-INCH DIAMETER AND LESS SHALL BE PVC (POLY-VINYL CHLORIDE) PIPE MEETING A.S.T.M. SPECIFICATIONS, ASTM D3034 AND HAVING A S.D.R. OF 26, UNLESS OTHERWISE SHOWN ON PLANS.
3. ANY CONCRETE PIPE USED ON THIS PROJECT SHALL BE REINFORCED CONCRETE MEETING ASTM C-76 CLASS III, AND HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS. CONCRETE PIPE IS ONLY TO BE USED WHERE REQUIRED IN PUBLIC RIGHT-OF-WAY AND/OR AT TIES TO PUBLIC STORM SEWER SYSTEMS. BEDDING BACKFILLING AND INSTALLATION OF PIPE AND CONSTRUCTION OF APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CIVIL DETAIL SHEETS.
4. THE CONTRACTOR SHALL USE PRECAST 4000 PSI REINFORCED CONCRETE STORM SEWER MANHOLES AND INLETS. INVERT SHALL BE INSTALLED WITH NON-SHRINK GROUT AND SLOPED TO ENSURE POSITIVE DRAINAGE FROM INLET TO STORM SEWER LINE. WITH SMOOTH FINISH AND NO STANDING WATER IN INLET. BRICK MANHOLES AND/OR INLETS MAY BE USED AS APPROVED BY THE ENGINEER WHEN SETTING STRUCTURES ON EXISTING UTILITY LINE. BRICK STRUCTURES MUST BE MORTARED INSIDE AND OUT. COORDINATE EACH INCIDENT WITH ENGINEER.
5. ALL INLETS, MANHOLES, CLEANOUTS, AND HEADWALLS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND. CEMENT STABILIZED SAND FILL SHALL BE AT LEAST 12" ON BOTTOM OF STRUCTURE AND 12" AROUND OUTSIDE OF STRUCTURE.
6. NO CORNER CONNECTIONS WILL BE ALLOWED TO ANY INLETS, JUNCTION BOXES OR BOX MANHOLES.
7. CONTRACTOR SHALL CUT OFF PIPE FLUSH WITH INSIDE FACE OF INLETS AND MANHOLES. ALL PIPE PENETRATIONS SHALL BE GROUTED INSIDE AND OUT WITH NON-SHRINK GROUT.
8. CONCRETE FOR DRAINAGE STRUCTURES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
9. CULVERT CROSSINGS LOCATED WITHIN 30 FEET OF THE RIGHT-OF-WAY SHALL HAVE MINIMUM 6:1 SLOPING ENDS KNOWN AS SAFETY END TREATMENTS (SETS). THE CULVERT SHALL HAVE SUFFICIENT LENGTH TO ALLOW THE 6:1 SLOPE TO BE ACHIEVED FROM THE EDGE OF PAVEMENT TO THE FLOWLINE AT THE END OF THE SET.
10. CULVERTS LARGER THAN SINGLE 30-INCH DIAMETER (OR LARGER THAN MULTIPLE 24-INCH DIAMETER CULVERTS) SHALL REQUIRE SAFETY PIPE RUNNERS.
11. CONTRACTOR SHALL FLUSH AND CLEAN ALL STORM SEWER LINES AND STRUCTURES PRIOR TO ACCEPTANCE.
12. UTILITIES ARE TO BE TAKEN TO WITHIN FIVE (5) FEET OF BUILDING. SEE PLUMBING SHEETS FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING.
13. TIE-INS TO EXISTING MANHOLES SHALL BE MADE SUCH THAT THE FINAL CONDITIONS UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
14. THE CONTRACTOR IS TO INSTALL WATER-TIGHT ADAPTORS OF A TYPE COMPATIBLE WITH THE MATERIALS BEING JOINED AT THE POINT OF CONNECTION OF THE SERVICE LINE TO THE BUILDING PLUMBING. NO CEMENT GROUT MATERIALS ARE PERMITTED.
15. THE CONTRACTOR IS TO INSTALL EACH CLEANOUT SO THAT IT OPENS IN A DIRECTION OPPOSITE TO THE FLOW OF THE WASTE AND, EXCEPT IN THE CASE OF A "WYE" BRANCH AND END-OF-THE-LINE CLEANOUTS, CLEANOUTS WILL BE INSTALLED VERTICALLY ABOVE THE FLOW LINE OF THE PIPE. CLEANOUTS WILL BE MADE WITH AIR-TIGHT MECHANICAL PLUG.
16. ALL STORM SEWER MANHOLES LOCATED OUTSIDE OF PAVED AREAS SHALL BE SET AT FINISH GRADE WITH CONCRETE COLLAR UNLESS OTHERWISE NOTED ON PLANS.
17. ALL INLETS AND JUNCTION BOXES LOCATED OUTSIDE OF PAVED AREAS SHALL HAVE A PRE-CAST TOP WITH CAST-IN FRAME.
18. CONTRACTOR SHALL GROUT ALL JOINTS INSIDE OF ALL INLETS, JUNCTION BOXES, AND MANHOLES WITH NON-SHRINK GROUT.
19. ALL TYPE "A" GRATE INLETS SHALL HAVE SLOTTED GRATE TOPS (MODEL V-4880-3).
20. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1-1/2 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS EIGHT (8) INCHES THICK MAXIMUM AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
21. CONTRACTOR IS RESPONSIBLE FOR PUMPING OUT STORM WATER QUALITY UNITS AND PROVIDING THE ENGINEER WITH A MANIFEST STATING THAT THE SILT AND DEBRIS WAS DISPOSED OF IN A LEGAL MANNER. MANIFEST AND TIME STAMPED PICTURES OF THE CLEAN UNITS MUST BE PROVIDED PRIOR TO ENGINEER SUBMITTING THE STORM WATER QUALITY AS-BUILT CERTIFICATE. CONTRACTOR TO NOTIFY ENGINEER WHEN PUMP OUT WILL TAKE PLACE.

WATER LINE CONSTRUCTION NOTES

1. DOMESTIC OR FIRE WATER LINES 4" AND LARGER SHALL BE POLYVINYL CHLORIDE PVC), DR-18, CLASS 150, CONFORMING TO AWWA C900 OR C905, AS CURRENTLY AMENDED UNLESS OTHERWISE NOTED ON THE PLANS.
2. WATER LINES 3" AND SMALLER SHALL BE SCHEDULE 40 PVC.
3. ALL VALVES SHALL BE LEFT HAND (COUNTERCLOCKWISE) OPEN.
4. SEE DETAIL SHEET FOR THRUST BLOCK DETAILS.
5. CONTRACTOR SHALL INSTALL METALLIC TRACER WIRE ON ALL UNDERGROUND PVC PIPING AND SECURE WIRE ENDS AT ALL VALVE BOXES.
6. CONTRACTOR SHALL ADJUST ELEVATION OF WATER LINES AS REQUIRED TO CLEAR OTHER UTILITIES. ADJUSTMENT MUST MEET TCEQ REQUIREMENTS FOR MINIMUM CLEARANCES, TYPE OF PIPE, ETC.
7. MINIMUM VERTICAL CLEARANCE BETWEEN WATER LINES AND OTHER UTILITIES SHALL BE TWELVE INCHES, UNLESS OTHERWISE NOTED ON THE PLANS.
8. EXISTING WATER SERVICES SHALL NOT BE INTERRUPTED DURING CONSTRUCTION.
9. NO CONNECTIONS SHALL BE MADE TO EXISTING WATER LINES UNTIL ALL PROPOSED WATER LINES HAVE BEEN THOROUGHLY CLEANED, TESTED, DISINFECTED AND APPROVED. ALL TESTING PROCEDURES SHALL CONFORM TO THE GOVERNING AGENCY.
10. UTILITIES ARE TO BE TAKEN TO WITHIN FIVE (5) FEET OF BUILDING. SEE PLUMBING SHEETS FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING.
11. METER AND BACKFLOW VAULTS SHALL BE SET 3" ABOVE FINISHED GRADE.
12. CONTRACTOR TO COORDINATE APPROPRIATE NOZZLE SIZE AND TYPE WITH LOCAL FIRE MARSHAL/FIRE INSPECTOR PRIOR TO OBTAINING FIRE HYDRANT.

SANITARY SEWER CONSTRUCTION NOTES

1. SANITARY SEWER SHALL BE PVC (POLY-VINYL CHLORIDE) PIPE MEETING A.S.T.M. SPECIFICATIONS, D-3034-08 AND HAVING A S.D.R. OF 26 UNLESS OTHERWISE SHOWN ON PLANS. BEDDING BACKFILLING AND INSTALLATION OF PIPE AND CONSTRUCTION OF APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CIVIL DETAIL SHEETS.
2. THE CONTRACTOR SHALL USE 4000 PSI REINFORCED CONCRETE PRECAST SANITARY SEWER MANHOLES.
3. ALL MANHOLES, AND CLEANOUTS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND. CEMENT STABILIZED SAND FILL SHALL BE AT LEAST 12" ON BOTTOM OF STRUCTURE AND 12" AROUND OUTSIDE OF STRUCTURE.
4. CONTRACTOR SHALL CUT OFF PIPE FLUSH WITH INSIDE FACE OF MANHOLES. ALL PIPE PENETRATIONS SHALL BE GROUTED INSIDE AND OUT WITH NON-SHRINK GROUT.
5. CONTRACTOR SHALL SEAL INTERIOR SURFACE OF PROPOSED SANITARY SEWER MANHOLES WITH THANECOAT FE-100, OR APPROVED EQUAL AS PER MANUFACTURER'S SPECIFICATIONS.
6. ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED.
7. ALL SANITARY SEWER LINES SHALL BE MANDREL AND AIR TESTED. ALL SANITARY SEWER LINES SHALL ALSO BE INSPECTED VIA CAMERA.
8. UTILITIES ARE TO BE TAKEN TO WITHIN FIVE (5) FEET OF BUILDING. SEE PLUMBING SHEETS FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING.
9. TIE-INS TO EXISTING MANHOLES SHALL BE MADE SUCH THAT THE FINAL CONDITIONS UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
10. THE CONTRACTOR IS TO INSTALL WATER-TIGHT ADAPTORS OF A TYPE COMPATIBLE WITH THE MATERIALS BEING JOINED AT THE POINT OF CONNECTION OF THE SERVICE LINE TO THE BUILDING PLUMBING. NO CEMENT GROUT MATERIALS ARE PERMITTED.
11. THE CONTRACTOR IS TO INSTALL EACH CLEANOUT SO THAT IT OPENS IN A DIRECTION OPPOSITE TO THE FLOW OF THE WASTE AND, EXCEPT IN THE CASE OF A "WYE" BRANCH AND END-OF-THE-LINE CLEANOUTS, CLEANOUTS WILL BE INSTALLED VERTICALLY ABOVE THE FLOW LINE OF THE PIPE. CLEANOUTS WILL BE MADE WITH AIR-TIGHT MECHANICAL PLUG.
12. ALL SANITARY SEWER MANHOLES LOCATED OUTSIDE OF PAVED AREAS SHALL BE SET 3" ABOVE FINISHED GRADE WITH CONCRETE COLLAR.
13. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1-1/2 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS EIGHT (8) INCHES THICK MAXIMUM AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

PRIVATE UTILITY NOTES

AT&T TEXAS / SWBT FACILITIES

1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN THE AREA. FOLLOW THE DIRECT BURIED CABLE PROCEDURES TO LOCATE THE AT&T TEXAS/SWBT DIRECT BURIED CABLES AS INDICATED IN THE AT&T TEXAS RESEARCH AND SIGNATURE PROCESS FOR AT&T TEXAS/SWBT FACILITIES.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. KEVIN RAY AT (713)614-1983 OR EMAIL HIM AT KR7896@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATION NEAR OUR AT&T TEXAS/SWBT FACILITIES.

CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY INTRASTATE PIPELINE, LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

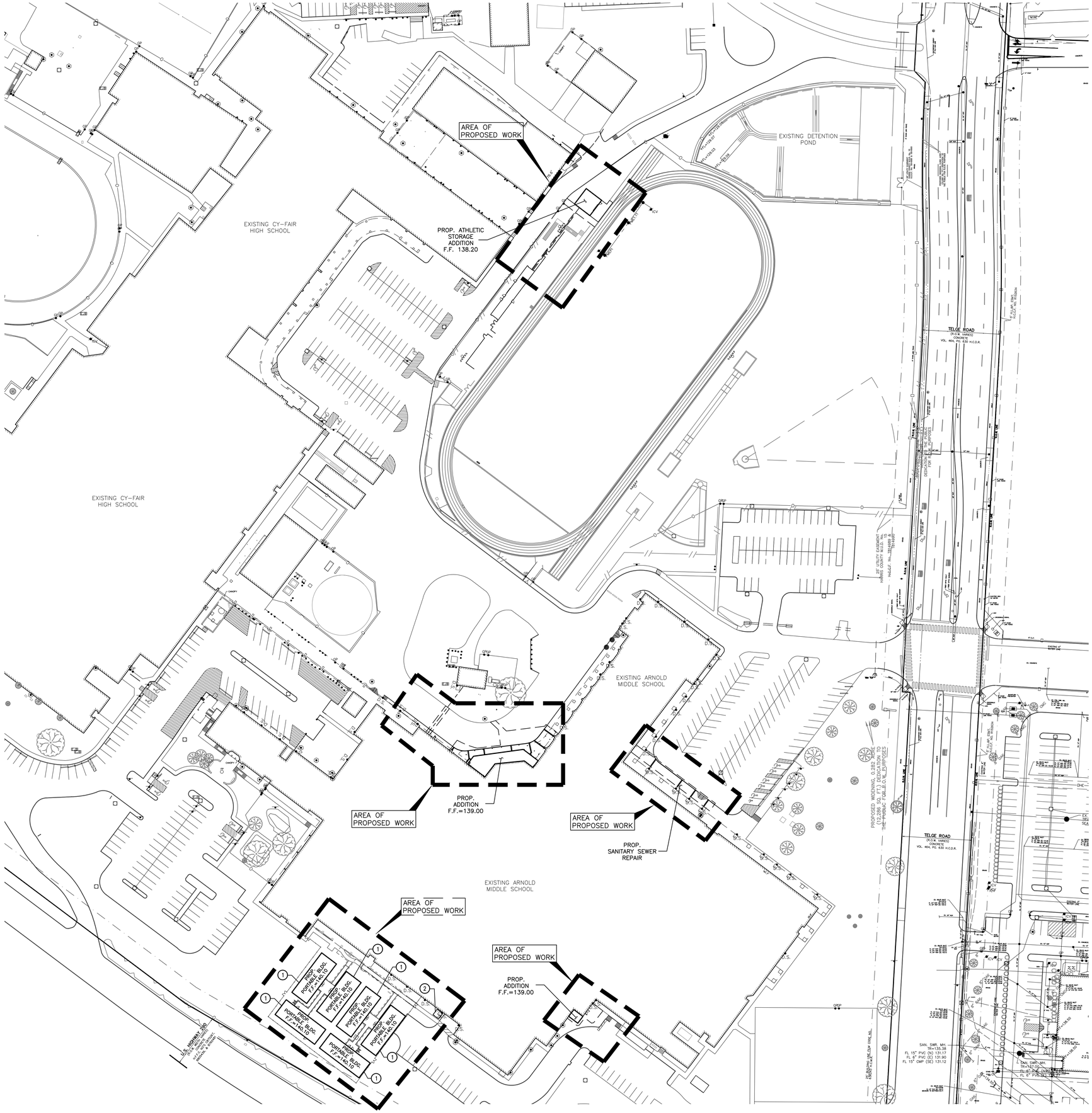
- WHEN CENTERPOINT ENERGY PIPELINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5463 OR (713) 945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-3552 OR (713) 207-4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRA

ISSUE FOR PROPOSAL



SCALE: 1"= 50'

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0410M (COMMUNITY-PANEL NO. 480287C0410M), MAP REVISED DATE: OCTOBER 16, 2013. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

REFERENCE BENCHMARK:

RM110140 – BRASS DISK STAMPED "K100 BM12" ON THE EAST SIDE OF THE NORTH BOUND BRIDGE ON TELGE ROAD OVER CYPRESS CREEK AT CENTERLINE OF STREAM, IN KEY MAP 368J, IN THE CYPRESS CREEK WATERSHED.
ELEVATION = 139.71' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARK:

TBM "BB" – BOX CUT ON THE NORTHWEST CORNER OF A CONCRETE PAD FOR A WATER VALVE LOCATED ±25' NORTHEAST OF THE MOST NORTHERLY CORNER OF THE TRACK.
ELEVATION = 137.11'

TBM "CC" – BOX CUT ON "C" INLET LOCATED ±20' NORTHWEST OF THE NORTH CORNER OF THE BLEACHERS.
ELEVATION = 137.83'

ARNOLD MIDDLE SCHOOL RENOVATION
DETENTION SUMMARY

DETENTION FOR THIS PROJECT (ARNOLD MIDDLE SCHOOL RENOVATIONS) IS BEING PROVIDED BY EXISTING ON SITE SURPLUS DETENTION PROVIDED BY PLANS PREPARED BY: BROOKS AND SPARKS, INC.
TITLED: CY-FAIR HS, ARNOLD MS, & CY-FAIR ANNEX
DATED: NOVEMBER 2018
HC PROJECT NO.: 2006710
APPROVAL DATE: 11/29/18

TOTAL THIS PROJECT INCREASED IMPERVIOUS COVER = 0.0166 ACRES
HARRIS COUNTY DETENTION RATE = 0.75 AC.FT./AC.
TOTAL DETENTION REQUIRED (THIS PROJECT) = 0.0125 AC.FT.
TOTAL SURPLUS DETENTION AVAILABLE TO BE UTILIZED = 0.29 AC.FT.
DETENTION VOLUME REMAINING TO BE UTILIZED POST THIS DEVELOPMENT= 0.278 AC.FT.

ARNOLD MIDDLE SCHOOL RENOVATION
STORM WATER QUALITY SUMMARY

STORM WATER QUALITY IS PROVIDED BY EXISTING STORM WATER QUALITY FEATURE (FLOATABLE COLLECTION SCREEN AS PART OF EXISTING ARNOLD MIDDLE SCHOOL DETENTION POND UNDER STORM WATER QUALITY PERMIT NO: 8-000726-8.
THEREFORE, NO ADDITIONAL STORM WATER QUALITY IS REQUIRED.

KEY NOTES:

1. CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR PORTABLE BUILDING INSTALLATION DETAILS.
2. PROPOSED HOPPER PAD. CONTRACTOR TO REFER TO ARCHITECTURAL/STRUCTURAL/MEP PLANS FOR DETAILS.

PBK

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ARNOLD MIDDLE SCHOOL RENOVATION

11111 Telge Rd.
Houston, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
02-17-25

CLIENT
Cypress-Fairbanks Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date
	ISSUE FOR PROPOSAL	

OVERALL CIVIL SITE PLAN

C102

11 Feb, 2025 2:01PM GregL
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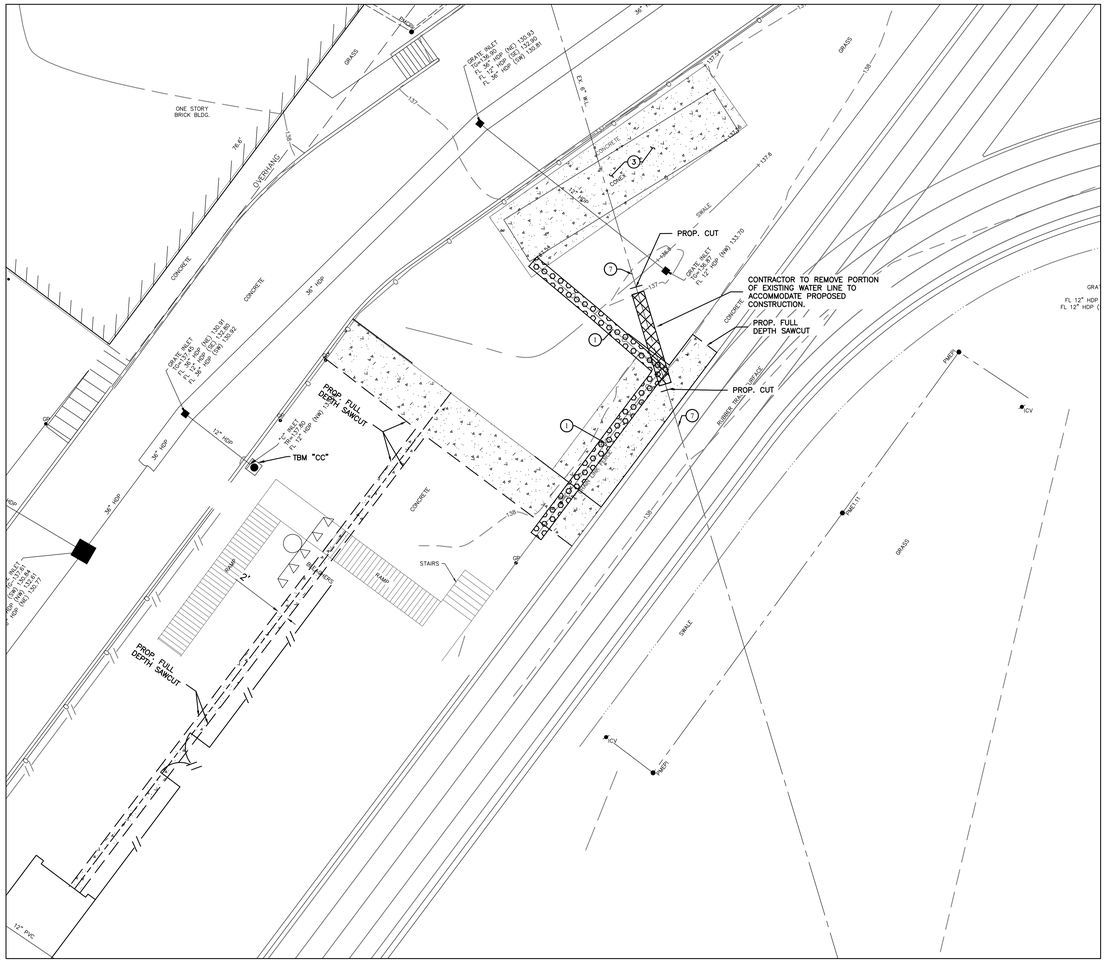
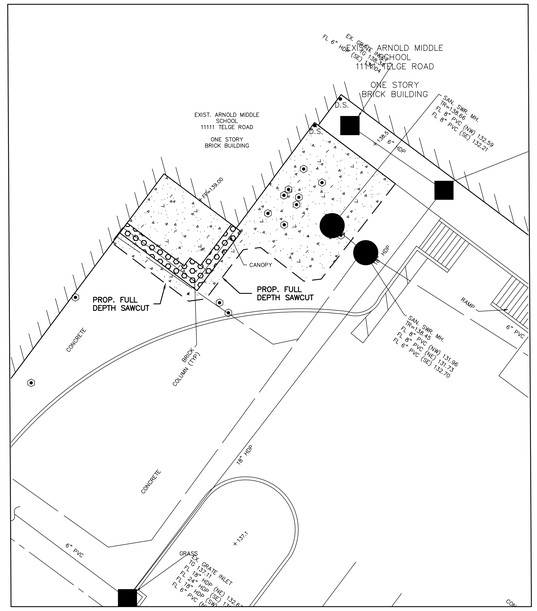
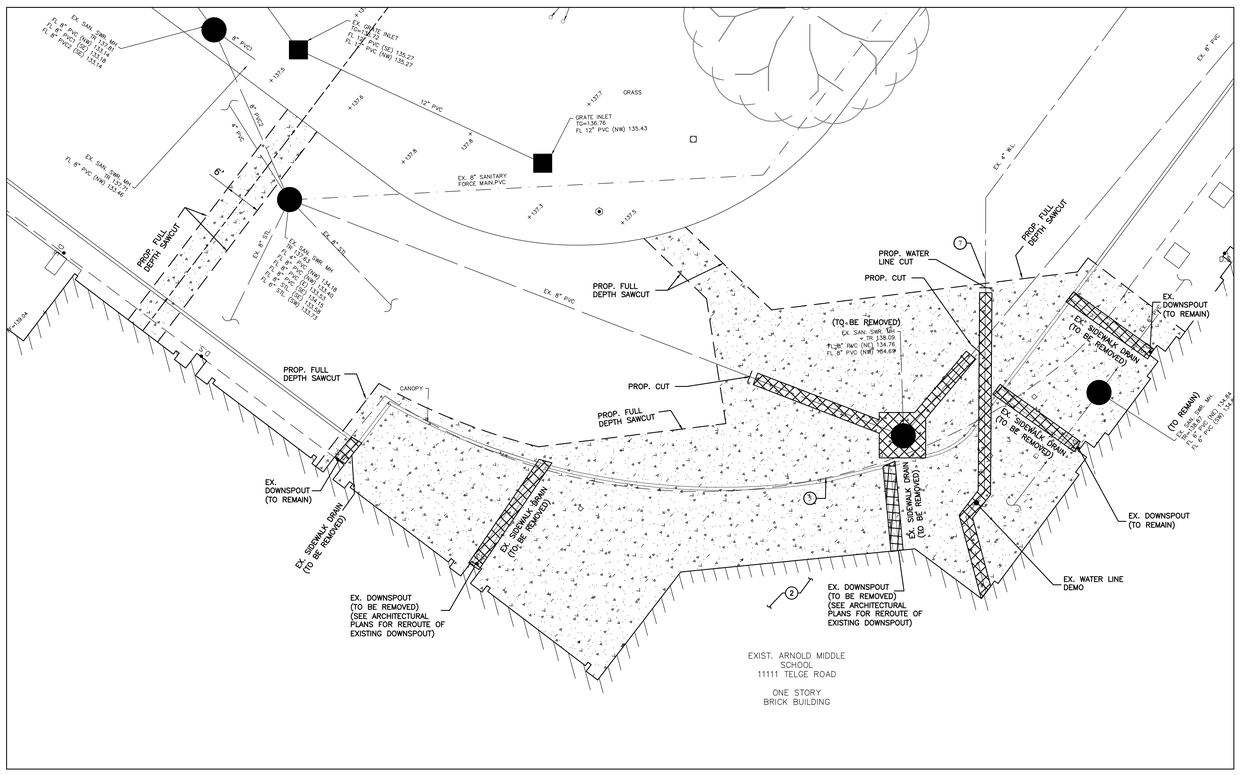
ISSUE FOR PROPOSAL

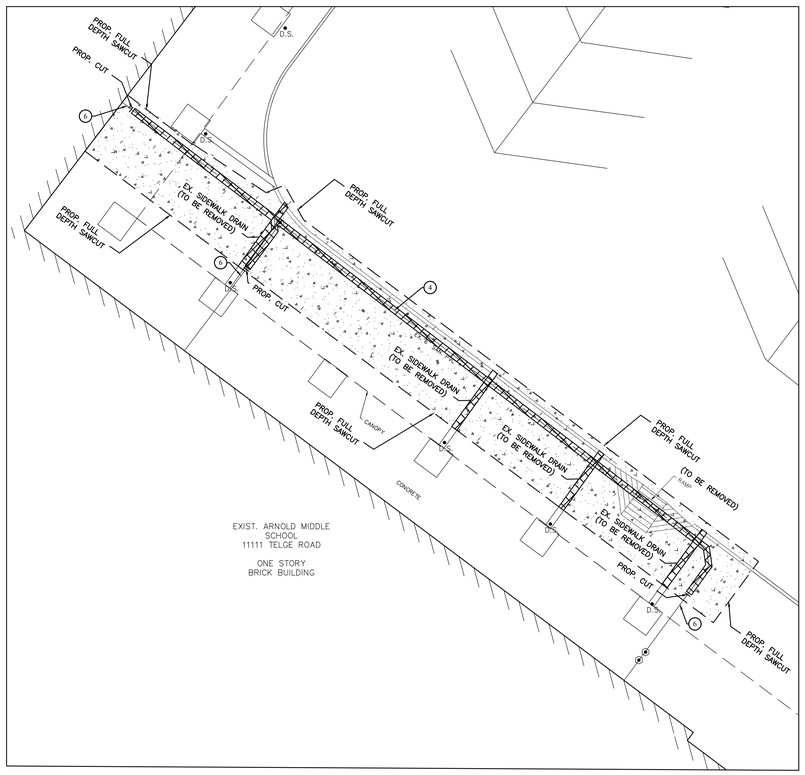


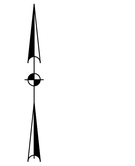
NOTES:

1. EXISTING FENCE TO BE REMOVED. CONTRACTOR TO COORDINATE FENCE REPLACEMENT WITH ARCHITECTURAL PLANS.
2. CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR EXISTING BUILDING DEMOLITION AT THIS LOCATION.
3. CONTRACTOR TO COORDINATE WITH ARCHITECT / OWNER FOR SALVAGE AND/OR RELOCATION OF EXISTING STORAGE CONTAINER. CONTRACTOR TO REMOVE EXISTING STORAGE CONTAINER CONCRETE PAD.
4. CONTRACTOR TO REMOVE EXISTING SANITARY SEWER WITH ANTICIPATION OF REPLACING WITH NEW SANITARY SEWER.
5. PORTION OF EXISTING CANOPY TO BE DEMOLISHED IN AREA ON PROPOSED ADDITION. CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR DETAILS.
6. PRIOR TO CONSTRUCTION CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING SANITARY SEWER. IF CONFLICT ARISES CONTRACTOR TO CONTACT ENGINEER.
7. PRIOR TO CONSTRUCTION CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING WATER LINE. IF CONFLICT ARISES CONTRACTOR TO CONTACT ENGINEER.









SCALE: 1"= 10'

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0410M (COMMUNITY–PANEL NO. 480287041OM), MAP REVISED DATE: OCTOBER 16, 2013. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

REFERENCE BENCHMARK:

RM110140 – BRASS DISK STAMPED "K100 BM12" ON THE EAST SIDE OF THE NORTH BOUND BRIDGE ON TELGE ROAD OVER CYPRESS CREEK AT CENTERLINE OF STREAM, IN KEY MAP 368J, IN THE CYPRESS CREEK WATERSHED.
ELEVATION = 139.71' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARK:

TBM "BB" – BOX CUT ON THE NORTHWEST CORNER OF A CONCRETE PAD FOR A WATER VALVE LOCATED ±25' NORTHEAST OF THE MOST NORTHERLY CORNER OF THE TRACK.
ELEVATION = 137.11'

TBM "CC" – BOX CUT ON "C" INLET LOCATED ±20' NORTHWEST OF THE NORTH CORNER OF THE BLEACHERS.
ELEVATION = 137.83'

LEGEND:

- PROP. FULL DEPTH SAWCUT
- EXISTING CONCRETE PAVEMENT, CURB, SIDEWALK AND SLAB TO BE REMOVED.
- EXISTING UTILITIES TO BE REMOVED.
- EXISTING MISCELLANEOUS EQUIPMENT/FENCING TO BE REMOVED. (CONTRACTOR TO COORDINATE WITH OWNER FOR STORAGE AND SALVAGE OPTIONS.

PBK

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TX Firm: BR 1608
PBK.com

ARNOLD MIDDLE SCHOOL RENOVATION

11111 Telge Rd.
Houston, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
02-17-25

CLIENT
Cypress-Fairbanks Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date
	ISSUE FOR PROPOSAL	

DEMOLITION PLAN

C103

11 Feb 2025 2:03PM GregL
F:\project\BROOK_SP\PBK\7250160 Arnold MS\Civil\C103-7250160-DEM.dwg
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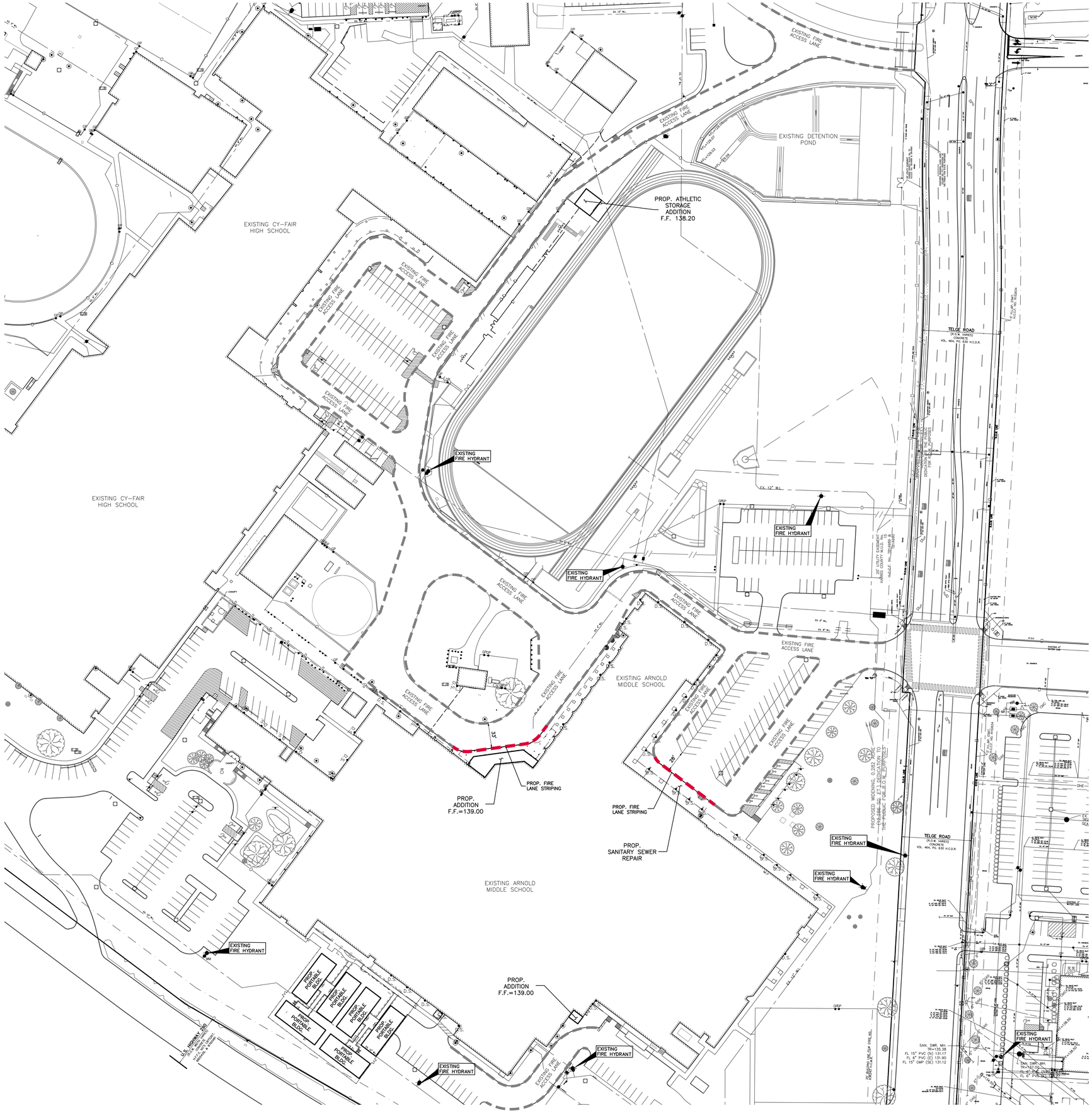
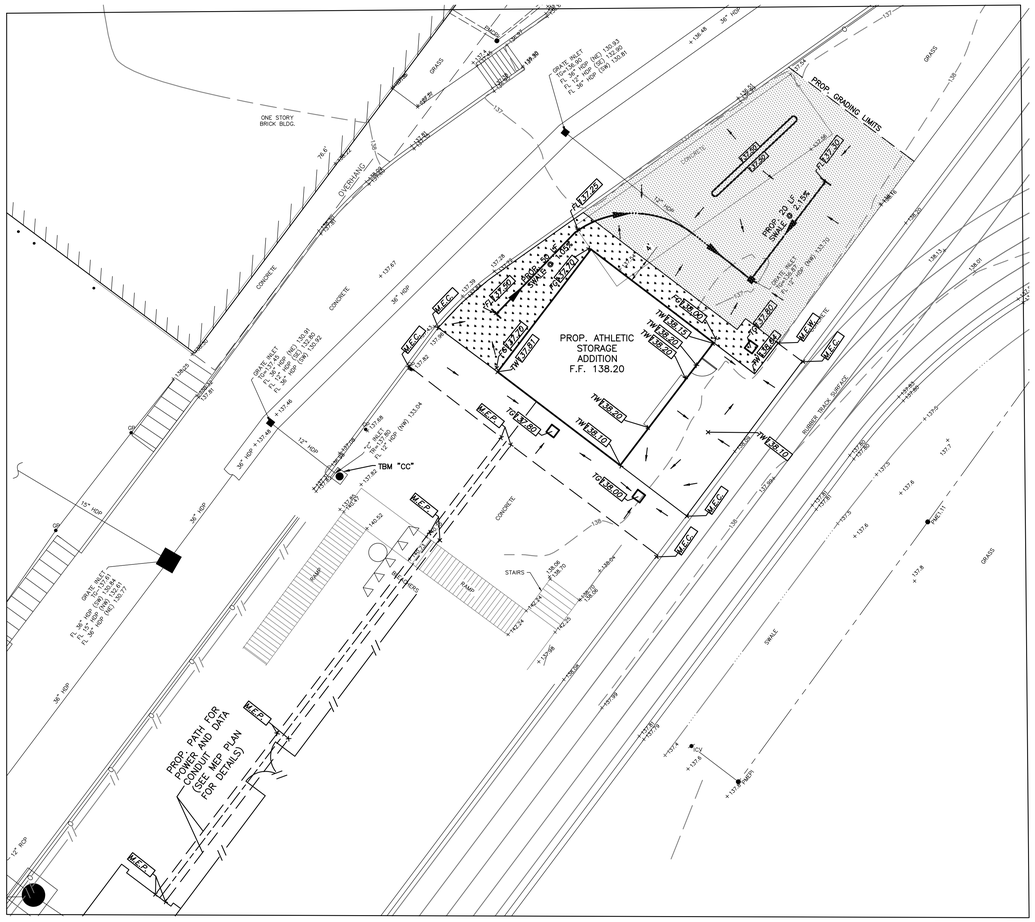
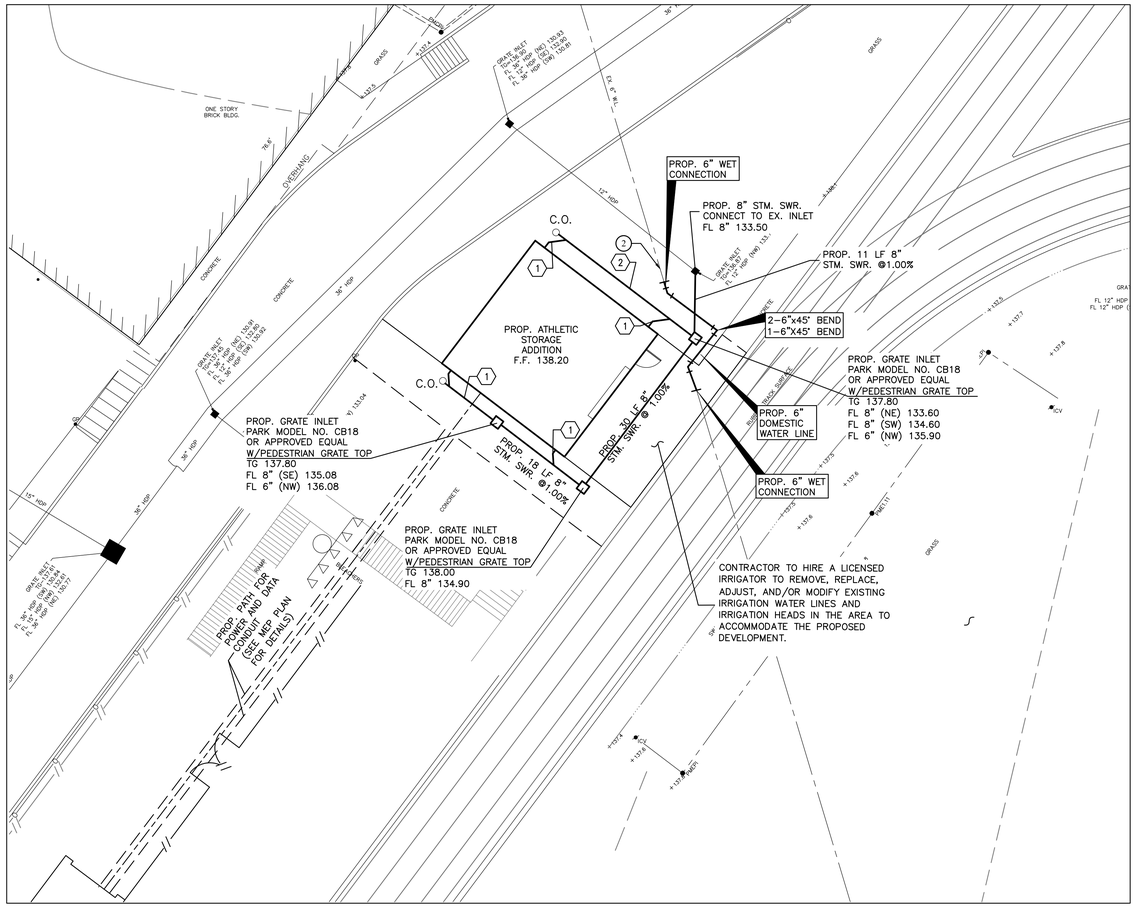
ISSUE FOR PROPOSAL


EXISTING CY-FAIR HIGH SCHOOL
EXISTING CY-FAIR HIGH SCHOOL
EXISTING DETENTION POND
EXISTING FIRE ACCESS LANE
PROP. ATHLETIC STORAGE ADDITION F.F. 138.20
EXISTING FIRE HYDRANT
EXISTING ARNOLD MIDDLE SCHOOL
EXISTING ARNOLD MIDDLE SCHOOL
PROP. ADDITION F.F.=139.00
PROP. FIRE LANE STRIPING
PROP. FIRE LANE STRIPING
PROP. SANITARY SEWER REPAIR
PROP. ADDITION F.F.=139.00
PROP. PORTABLE BLDG.
TELGE ROAD (R.O.W. VARIES) CONCRETE VOL. 464, PG. 630 H.C.D.R.
TELGE ROAD (R.O.W. VARIES) CONCRETE VOL. 464, PG. 630 H.C.D.R.
U.S. HIGHWAY 290 (R.O.W. VARIES) MEDIAN & PAVEMENT
SAN. SWR. MH TR=135.38 FL 15" PVC (N) 131.17 FL 6" PVC (E) 131.90 FL 15" CMP (SE) 131.12
SAN. SWR. MH TR=137.09 FL 6" PVC (W) 131.90
PROPOSED WIDENING 0.220 AC. (9,600 SQ. FT.) DEDICATION TO THE PUBLIC FOR R.O.W. PURPOSES
25' UTILITY EASEMENT HARRIS COUNTY CLERK'S NO. F615695
EX. 12" W.L.
EX. 8" W.L.
EX. 6" W.L.
EX. 8" SAN. SWR.
EX. 6" SAN. SWR.
EX. 12" SAN. SWR.
EX. 15" SAN. SWR.
EX. 24" SAN. SWR.
EX. 30" SAN. SWR.
EX. 36" SAN. SWR.
EX. 42" SAN. SWR.
EX. 48" SAN. SWR.
EX. 54" SAN. SWR.
EX. 60" SAN. SWR.
EX. 66" SAN. SWR.
EX. 72" SAN. SWR.
EX. 78" SAN. SWR.
EX.

ISSUE FOR PROPOSAL

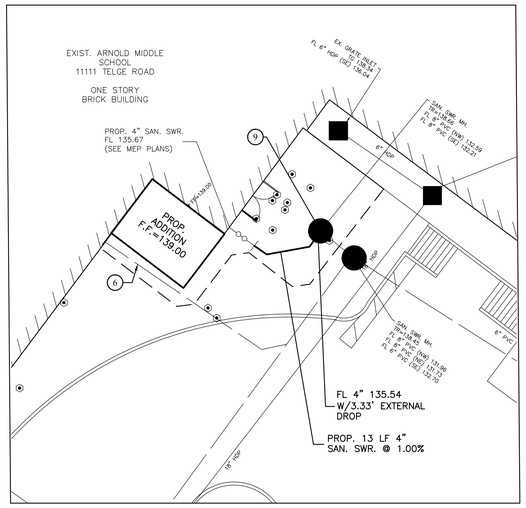

PROP. GRADING LIMITS
PROP. ATHLETIC STORAGE ADDITION F.F. 138.20
PROP. 20 LF SWALE @ 2.10%
PROP. 20 LF SWALE @ 2.10%
PROP. PATH FOR POWER AND DATA CONDUIT (SEE MEP PLAN FOR DETAILS)
TBM "CC"
ONE STORY BRICK BLDG.
CHAIN LINK FENCE
CONCRETE
GRASS
STAIRS
RAMP
SWALE
DRIVEWAY
GRATE INLET Ex. TOP @ 138.30 (NE) 130.93 Ex. 12" HDPE (NW) 130.83 Ex. 36" HDPE (SW) 130.81
GRATE INLET Ex. TOP @ 137.46 (NW) 133.54 Ex. 12" HDPE (SW) 133.54
GRATE INLET Ex. TOP @ 137.68 (NW) 133.68 Ex. 12" HDPE (SW) 133.54
GRATE INLET Ex. TOP @ 137.80 (NW) 133.54 Ex. 36" HDPE (SW) 133.54 Ex. 36" HDPE (SE) 133.54
Ex. 12" HDPE
Ex. 36" HDPE
Ex. 15" HDPE
Ex. 24" HDPE
Ex. 54" HDPE
Ex. 36" HDPE @ 137.68
Ex. 12" HDPE @ 137.80
Ex. 36" HDPE @ 137.30
Ex. 36" HDPE @ 137.20
Ex. 36" HDPE @ 137.40

ISSUE FOR PROPOSAL



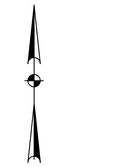
LEGEND:

- PROPOSED MANHOLE
- PROPOSED MANHOLE W/GRATE TOP
- PROPOSED GRATE/CURB INLET
- DIRECTION OF FLOW
- FL — FLOW LINE
- C.O. — PROPOSED CLEANOUT
- (1) — PROP. 4" STM. SWR. @ 1.00% MIN.
- (2) — PROP. 6" STM. SWR. @ 1.00% MIN.
- (3) — PROP. 8" STM. SWR. @ 1.00% MIN.



KEY NOTES:

1. PRIOR TO CONSTRUCTION CONTRACTOR TO FIELD VERIFY HORIZONATAL AND VERTICAL LOCATION OF EXISTING SANITARY SEWER. IF CONFLICT ARISES CONTRACTOR TO CONTACT ENGINEER.
2. PRIOR TO CONSTRUCTION CONTRACTOR TO FIELD VERITY HORIZONTAL AND VERTICAL LOCATION OF EXISTING WATER LINE. IN THE EVENT OF CONFLICT CONTRACTOR TO REROUTE EXISTING WATER LINE TO ACCOMMODATE PROPOSED STORM SEWER INSTALLATION.
3. CONTRACTOR TO REMOVE ALL EXISTING CONCRETE SANITARY SEWER PIPING AND REPLACE WITH CAST IRON PIPING (MATCHING EXISTING MATERIAL EXITING AND ENTERING THE BUILDING IN THE AREA). DUE TO LACK OF FLOWLINE ELEVATION INFORMATION CONTRACTOR TO MATCH FLOWLINE ELEVATION UPSTREAM AND DOWNSTREAM OF SANITARY SEWER REPLACEMENT MAINTAINING THE EXISTING AVAILABLE SLOPE.
4. CONTRACTOR TO CONNECT PROPOSED 6" SANITARY SEWER TO EXISTING SANITARY SEWER (NO FERNCO COUPLER ALLOWED).
5. PROPOSED 12" WIDE SIDEWALK DRAIN SERVING EXISTING DOWNSPOUT (SEE SHEET C7.02 FOR DETAILS).
6. PRIOR TO CONSTRUCTION CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING SANITARY SEWER. IF CONFLICT ARISES CONTRACTOR TO CONTACT ENGINEER.
7. PRIOR TO CONSTRUCTION CONTRACTOR TO FIELD VERIFY HORIZONATAL AND VERTICAL LOCATION OF EXISTING WATER LINE. IF CONFLICT ARISES CONTRACTOR TO CONTACT ENGINEER.
8. CONTRACTOR TO CONSTRUCT PROPOSED SANITARY SEWER MANHOLE ON EXISTING 8" SANITARY SEWER WITH WATER TIGHT GASKET-ED CONNECTIONS.
9. CONTRACTOR TO CONNECT PROPOSED SANITARY SEWER TO EXISTING SANITARY SEWER MANHOLE WITH EXTERNAL DROP WITH WATER TIGHT CORED GASKET-ED CONNECTIONS.
10. PROPOSED TEMPORARY 4" WATER LINE TO SERVE DOMESTIC NEEDS OF ARNOLD MIDDLE SCHOOL DURING CONSTRUCTION. ONCE PERMANENT SERVICE IS RESTORED CONTRACTOR TO REMOVE THIS TEMPORARY BRANCH AND TEMPORARY TEE ON PERMANENT WATER 4" LINE.
11. CONTRACTOR TO VERTICALLY OFFSET PROPOSED WATER LINE UNDER EXISTING SANITARY SEWER MAINTAINING MINIMUM 2' VERTICAL CLEARANCE.



FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0410M (COMMUNITY-PANEL NO. 480287041OM), MAP REVISED DATE: OCTOBER 16, 2013. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

REFERENCE BENCHMARK:

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ELEVATION = 139.71' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARK:

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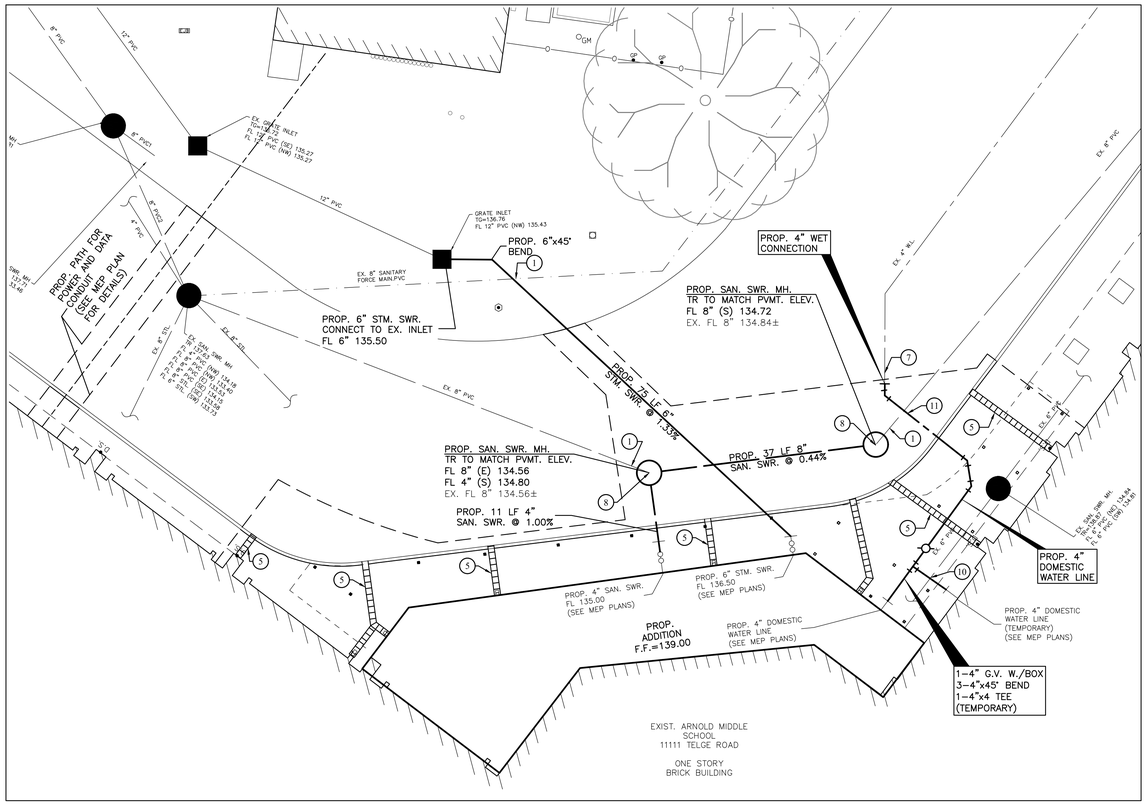
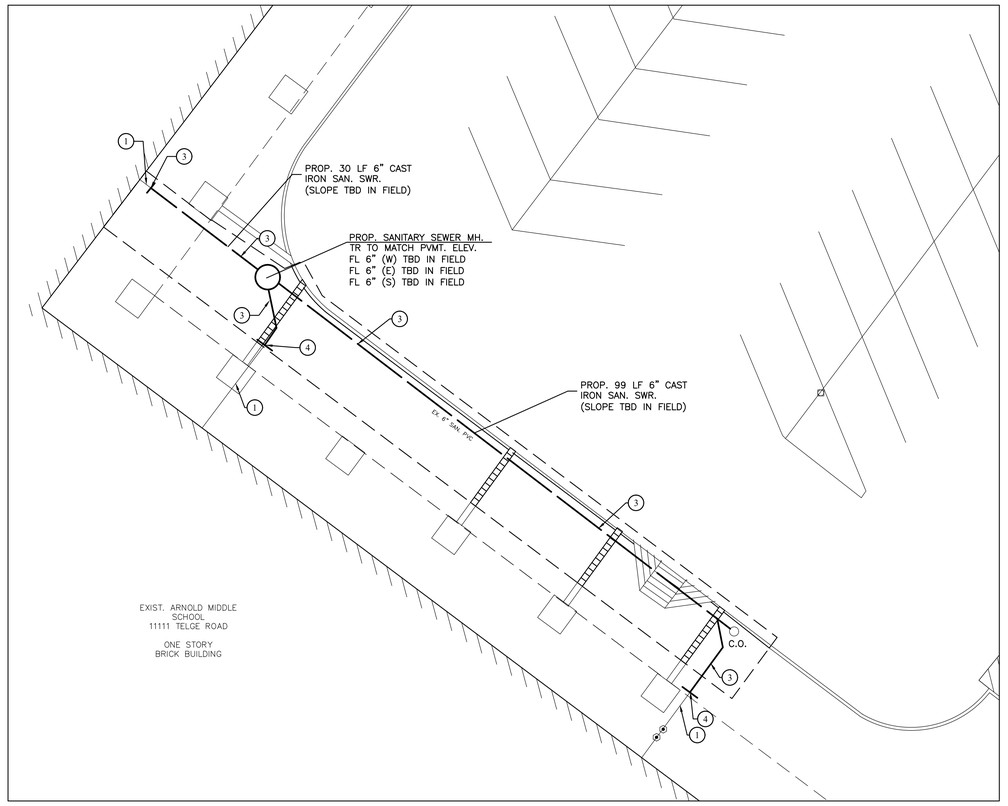
TBM "CC" – BOX CUT ON "C" INLET LOCATED ±20' NORTHWEST OF THE NORTH CORNER OF THE BLEACHERS.
ELEVATION = 137.83'





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TX Firm: BR 1608

ARNOLD MIDDLE SCHOOL RENOVATION

11111 Telge Rd.
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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
02-17-25

CLIENT
Cypress-Fairbanks Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

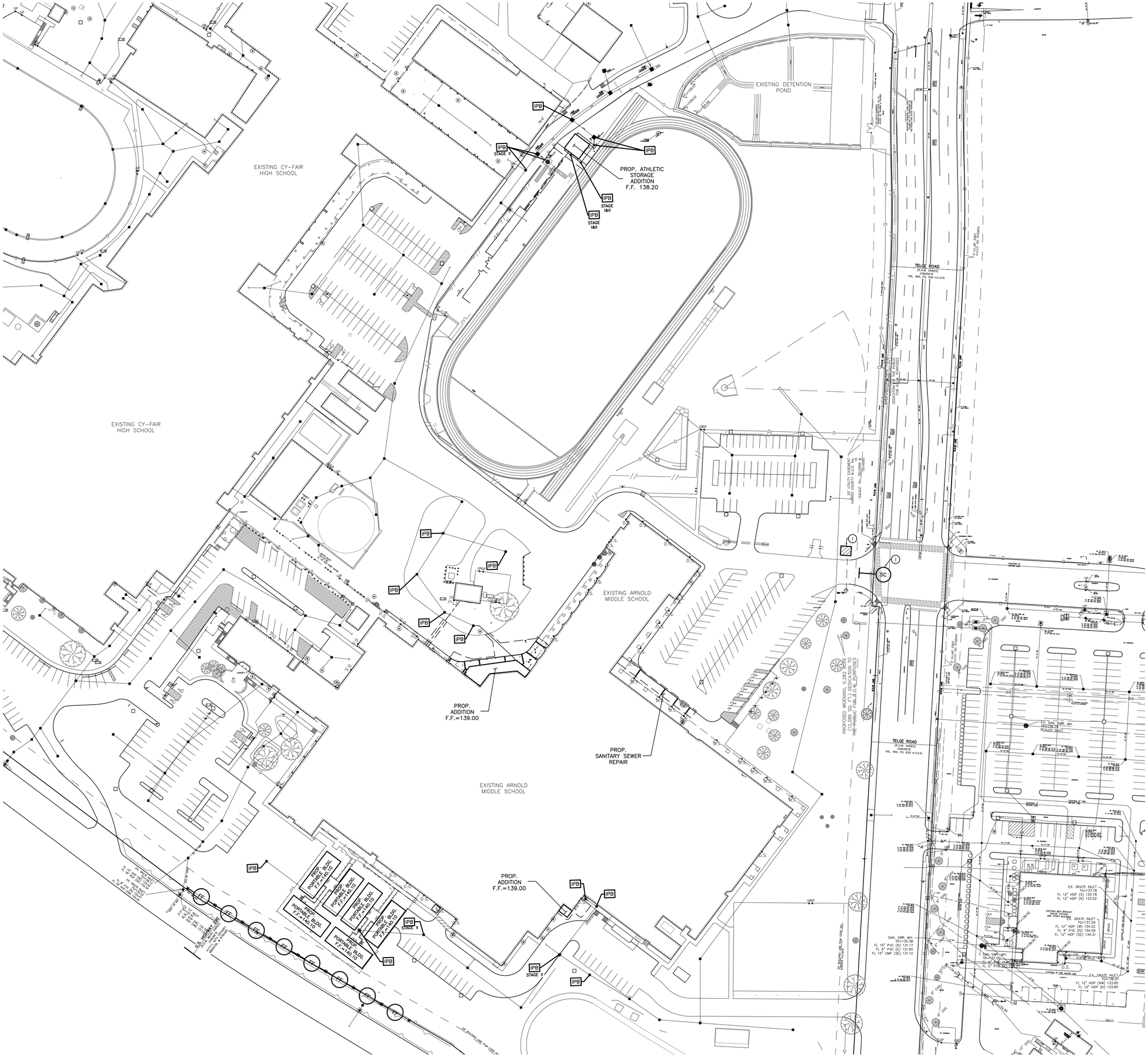
No.	Description	Date
	ISSUE FOR PROPOSAL	

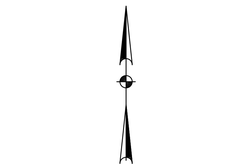
UTILITY PLAN

C301

11 Feb 2025 2:08PM Gregl
F:\projects\BROOK_SP\PBK\7250160 Arnold MS\Civil\C301-7250160-UTIL.dwg
Includes Xref(s): X-Topo.dwg, X-TB.dwg, X-Util.dwg, X-Site.dwg, X-Seal.dwg

ISSUE FOR PROPOSAL





FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0410M (COMMUNITY-PANEL NO. 480287041OM), MAP REVISED DATE: OCTOBER 16, 2013. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

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TBM "CC" – BOX CUT ON "C" INLET LOCATED ±20' NORTHWEST OF THE NORTH CORNER OF THE BLEACHERS.
ELEVATION = 137.83'

LEGEND:

- PROPOSED INLET
- FF — PROPOSED FILTER FABRIC FENCE (SILT FENCE)
- SC — STABILIZED CONSTRUCTION ACCESS
- IPB — INLET PROTECTION BARRIER
- IPB STAGE II — INLET PROTECTION BARRIER (CURB INLET/INLET IN PAVEMENT)
- CONCRETE WASHOUT PIT

KEY NOTES:

1. CONTRACTOR TO COORDINATE FINAL PLACEMENT OF STABILIZED CONSTRUCTION ENTRANCE AND WASH OUT PIT WITH CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT.

CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION, MAINTENANCE, MODIFICATION AND INSPECTION OF STORM WATER POLLUTION PREVENTION DEVICES AND STRUCTURES TO ENSURE NO SILT OR CONTAMINATED WATER LEAVES THE PROJECT SITE.

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CLIENT
Cypress-Fairbanks Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

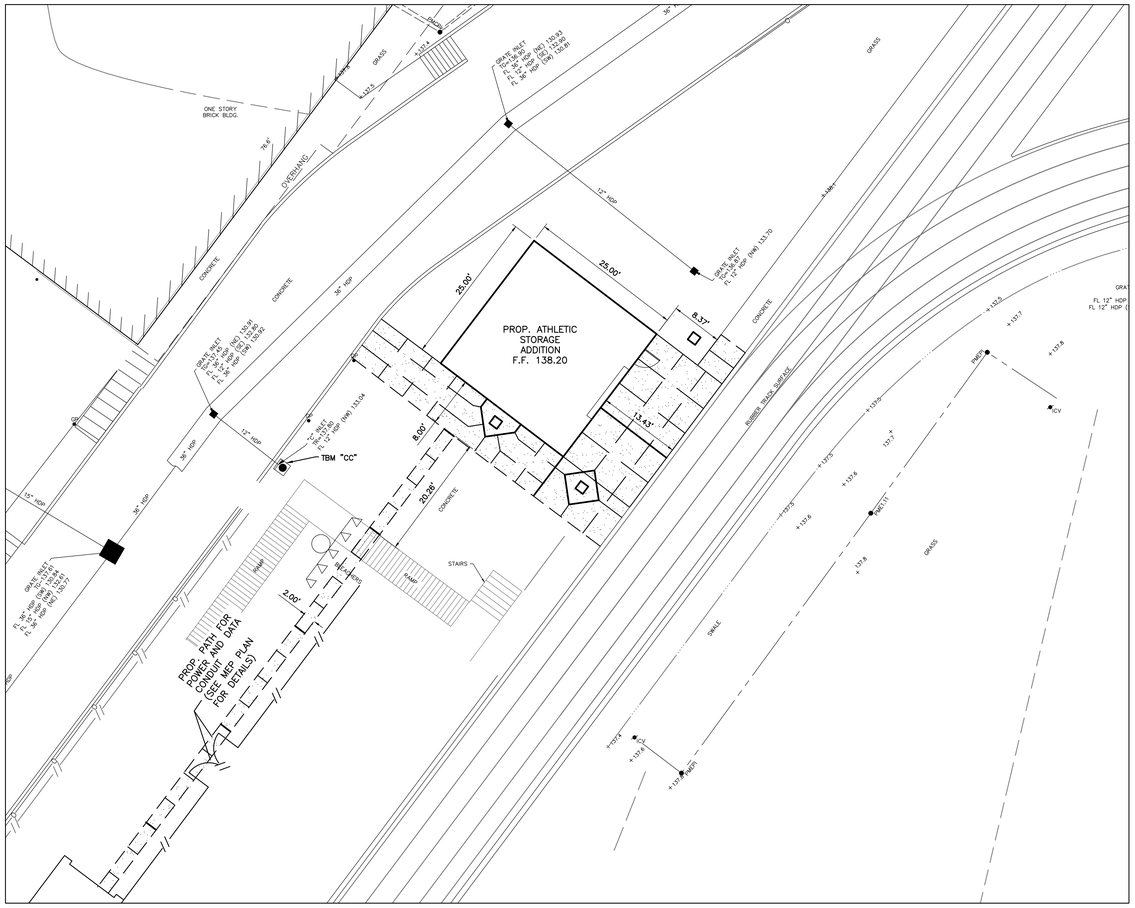
No.	Description	Date
	ISSUE FOR PROPOSAL	

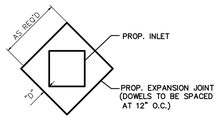
STORM WATER POLLUTION PREVENTION PLAN

C302

11 Feb 2025 2:21PM GregL
F:\projects\BROOK_SP\PBK\7250160 Arnold MS\Civil\C302-7250160-SWPPP.dwg
Includes Xref(s): X-Topo.dwg; X-TB.dwg; X-Site.dwg; X-Util.dwg; X-Seal.dwg

ISSUE FOR PROPOSAL





D = 24" FOR MANHOLES & GRATE INLETS
D = 12" FOR AREA INLETS & AREA DRAINS

STORM SEWER INLET W/ EXPANSION JOINT

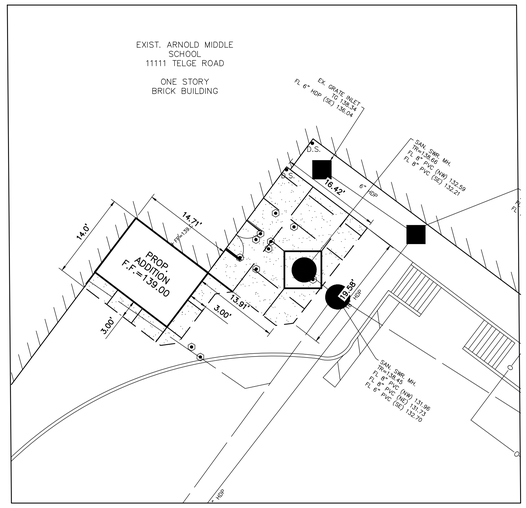
NOTES:

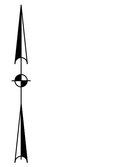
LOCATE EXPANSION JOINTS AS SHOWN. SAWED JOINTS SHALL BE SPACED EVENLY BETWEEN EXPANSION JOINTS AT 15' MAXIMUM SPACING.

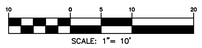
ALL CURBS TO BE 6" UNLESS OTHERWISE NOTED.

LINE UP JOINTS IN SIDEWALK W/ JOINTS IN PARKING LOT.

INSTALL EXPANSION JOINTS IN ALL DRIVEWAYS AT ROW LINE.







FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NO. 48201C0410M (COMMUNITY–PANEL NO. 480287041OM), MAP REVISED DATE: OCTOBER 16, 2013. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

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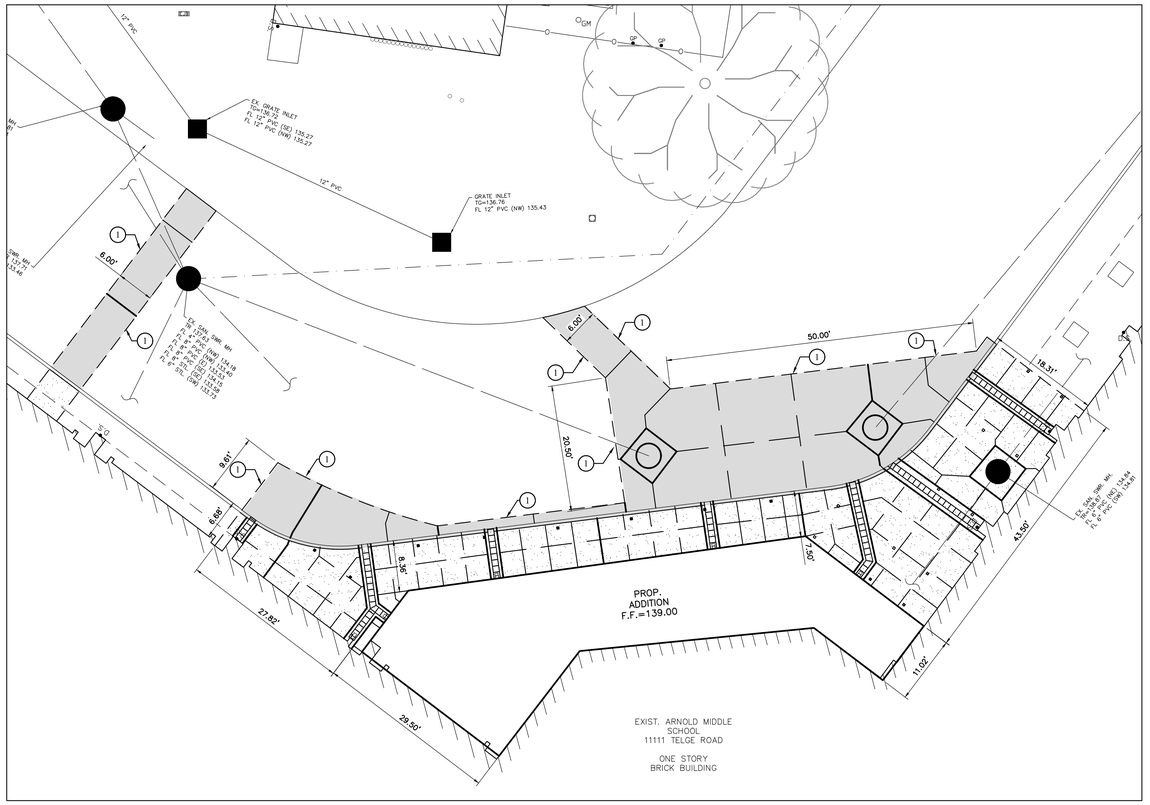
ELEVATION = 137.83'

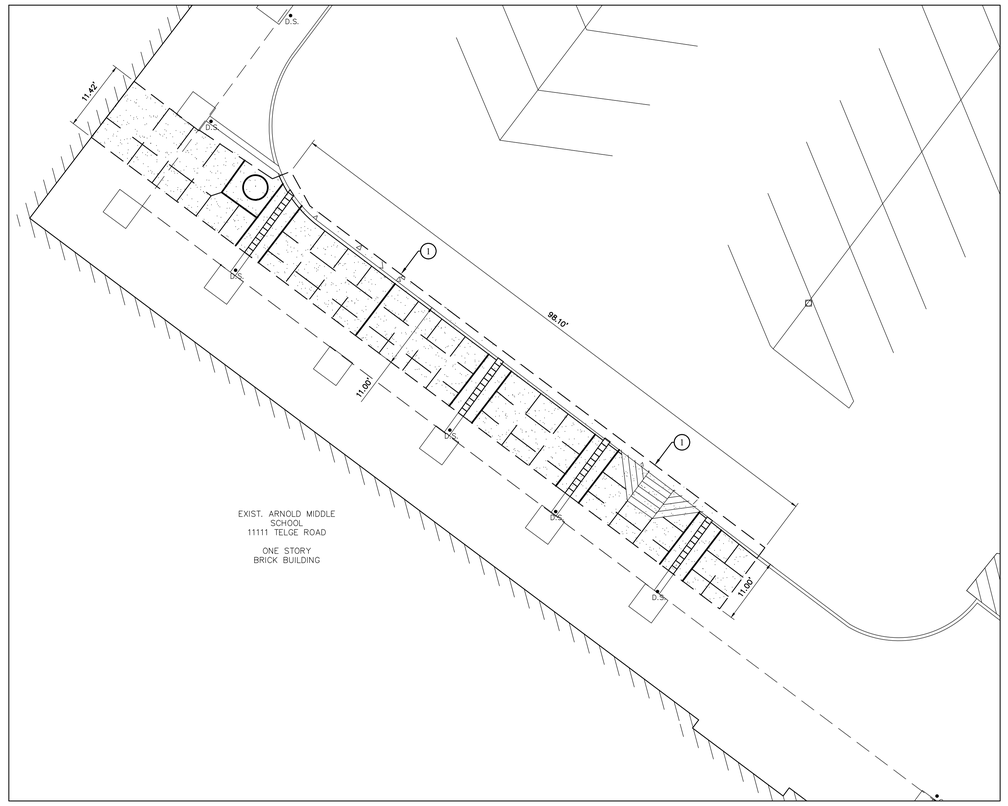
LEGEND:

- SAWED JOINT
- EXPANSION JOINT
- PROP. 8" REINFORCED CONCRETE PAVEMENT
- PROP. 6" REINFORCED CONCRETE PAVEMENT
- PROP. 4 ½" REINFORCED CONCRETE SIDEWALK

KEY NOTES:

1. CONTRACTOR TO DRILL 9" INTO EXISTING PAVEMENT AND INSTALL 18" LONG #5 BAR (EPOXY IN PLACE) LEAVING 9" EXPOSED TO FACILITATE CONNECTION TO PROPOSED PAVEMENT.
2. CONTRACTOR TO ADJUST EXISTING SANITARY SEWER MANHOLE TOP TO MATCH SIDEWALK PAVEMENT ELEVATION.





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CLIENT
Cypress-Fairbanks Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

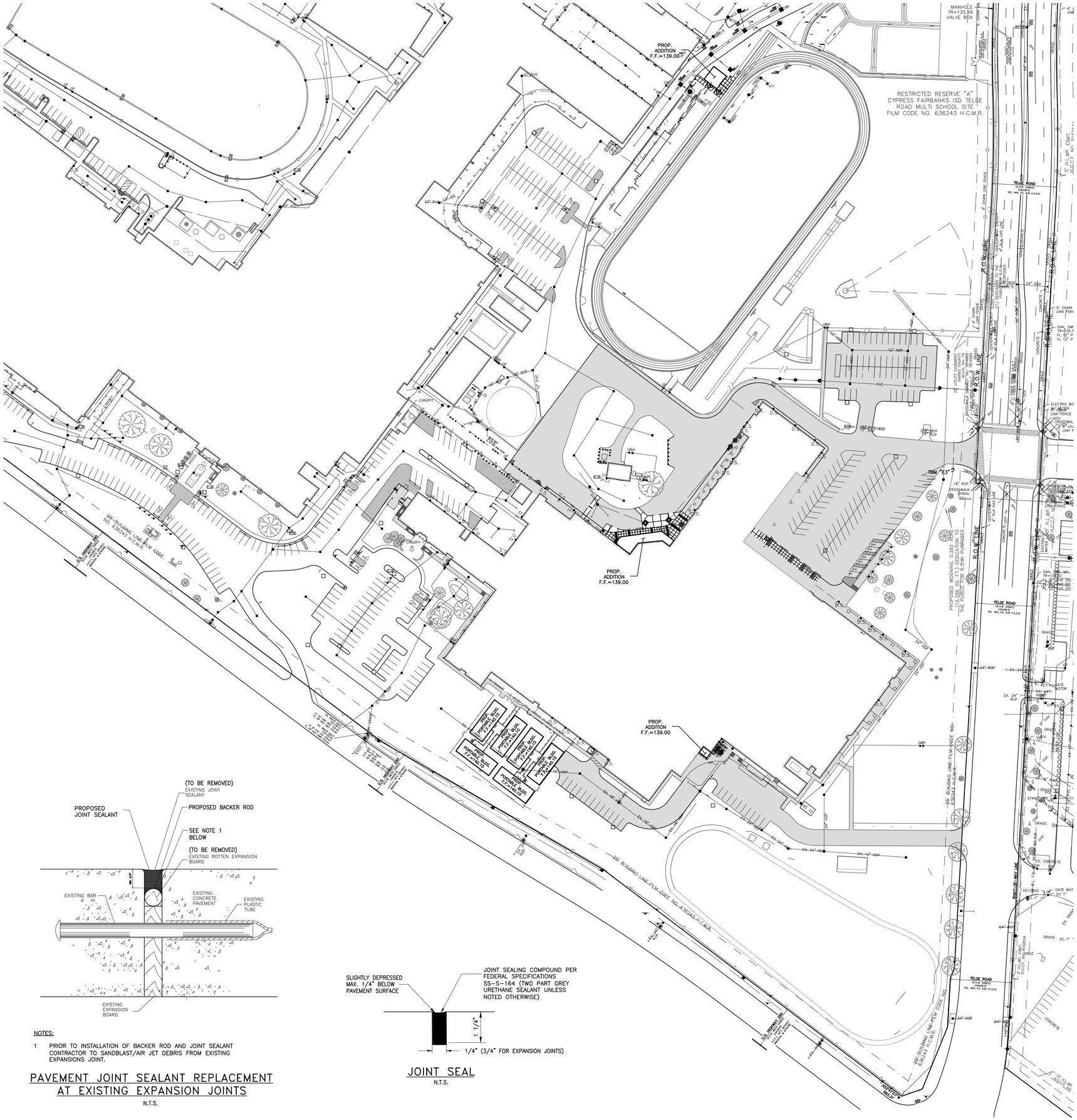
No.	Description	Date
	ISSUE FOR PROPOSAL	

PAVING AND JOINTING PLAN

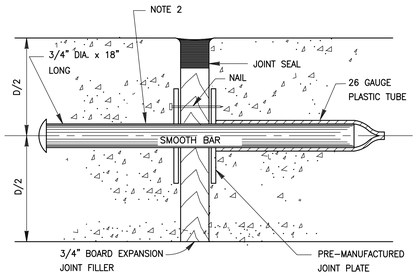
C501

11 Feb 2025 2:10PM GregL
F:\project\BROOK_SP\PBK\7250160 Arnold MS\Civil\C501-7250160-JT.dwg
Includes Xref(s): X-Topo.dwg, X-TB.dwg, X-Util.dwg, X-Site.dwg, X-Seal.dwg

ISSUE FOR PROPOSAL


PROP. ADDITION F.F.=139.00
RESTRICTED RESERVE "A"
CYPRESS FAIRBANKS ISD TELGE
ROAD MULTI SCHOOL SITE
FILM CODE NO. 636243 H.C.M.R.
MANHOLE
TR=135.99
VALVE BOX
TELGE ROAD
(F.K.A. HARRIS
COUNTY)
VOL. 464, PG. 630 H.C.D.R.
R.O.W. LINE
6' CHAIN LINK FENCE
4" RCA GAS LINE
CENTERLINE
24" RCP
CONCRETE
GRASS
6' CHAIN LINK FENCE
5' UTILITY EASEMENT
PROVIDENCE SUBDIVISION
FILM CODE NO. 636243
H.C.M.R.
4" RCA GAS LINE
4" RCA GAS LINE
12" HDP
18" RCP
CROSSWALK SIGNAL
CONCRETE
4" RCA GAS LINE
PROPOSED WIDENING, 0.282 ACRE
(12,288 SQ. FT.) DEDICATION TO
THE PUBLIC FOR ROW
R.O.W. LINE
TBM "E"
ELECTRIC BOX
6' CHAIN LINK FENCE
LADY
CROSSWALK
6' CHAIN LINK FENCE
R.O.W. LINE
WATER LINE
SAN. SWR.
TR=133.3
FL 12" P
SAN. SWR. MH.
TR=134.0
FL 12" (N)
FL 12" (S)
GATE MOT
DC 1"
GRASS
CONCRETE
TELGE ROAD
(F.K.A. HARRIS
COUNTY)
CONCRETE
VOL. 464, PG. 630 H.C.D.R.
24" RCP
EX. 24" RCP
KEY PAD
GATE MOTOR
EX. 24" HDPE
EX. 24" RCP
EX. CONCRETE
RIGHT-OF-WAY LINE
KEY PAD
GATE MOT
DC 1"
EX. 18" RCP
GRASS
DC 1"
EX. 24" RCP
EX. 24" RCP
TELGE ROAD
(F.K.A. HARRIS
COUNTY)
CONCRETE
VOL. 464, PG. 630 H.C.D.R.
24" RCP
EX. 24" RCP
EX. 12" HDP
EX. 24" HDP
EX. 12" HDP
PROP. ADDITION F.F.=139.00
PROP. ADDITION F.F.=139.00
PROP. ADDITION F.F.=139.00

ISSUE FOR PROPOSAL

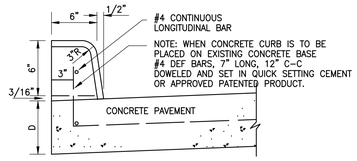


NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS. UNITS TO BE SPACED ON 12" CENTERS
2. CENTER DOWEL HORIZONTALLY ON JOINT
3. CENTER DOWEL VERTICALLY IN CONCRETE BASE.

DOWEL TYPE EXPANSION JOINT

N.T.S.

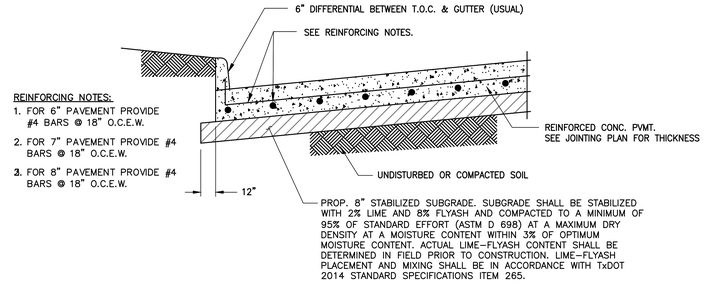


NOTES:

1. MORTAR FINISH NOT REQUIRED WHEN CURB IS POURED BY A MACHINE, BUT CURB SHALL HAVE THE SAME OUTSIDE DIMENSIONS.
2. PROP. VERTICAL JOINT IN CURB TO BE SEALED WITH VERTICAL SEALANT MATCHING COLOR OF JOINT SEALANT IN PAVEMENT.

CONCRETE CURB

N.T.S.

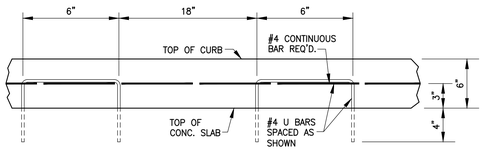


REINFORCING NOTES:

1. FOR 6" PAVEMENT PROVIDE #4 BARS @ 18" O.C.E.W.
2. FOR 7" PAVEMENT PROVIDE #4 BARS @ 18" O.C.E.W.
3. FOR 8" PAVEMENT PROVIDE #4 BARS @ 18" O.C.E.W.

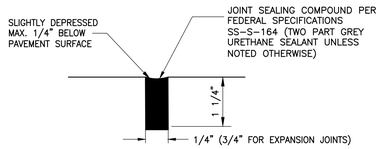
TYPICAL CONCRETE PAVEMENT

N.T.S.



TYPICAL CONCRETE CURB REINFORCING

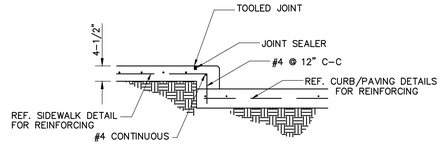
N.T.S.



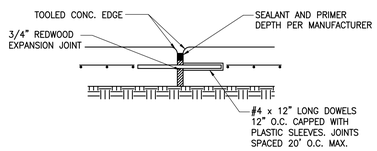
JOINT SEAL

N.T.S.

NOTE:
WHERE THE DEPTH DOES NOT PERMIT THE USE OF BACKER ROD, A BOND BREAKER (POLYETHYLENE STRIP) MUST BE USED TO PREVENT THREE-POINT BONDING

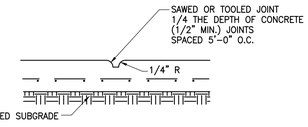


SIDEWALK AT PAVEMENT



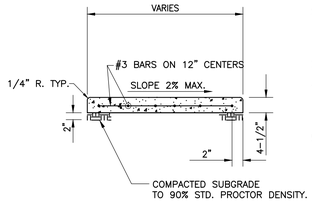
CONCRETE SIDEWALK EXPANSION JOINT

N.T.S.



CONCRETE SIDEWALK CONTROL JOINT

N.T.S.

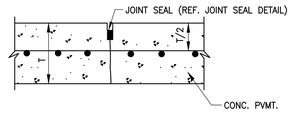


NOTES:

1. 1/2" FIBERBOARD EXPANSION MATERIAL REQUIRED WHERE SIDEWALK ABUTS BUILDING. 3/4" REDWOOD MATERIAL REQUIRED WHERE SIDEWALK ABUTS CURBS, DRIVEWAYS OR EXISTING SIDEWALKS.
2. WHERE NEW SIDEWALK IS PLACED AGAINST EXISTING SIDEWALK, SAWCUT EXISTING SIDEWALK TO AN EVEN STRAIGHT LINE PRIOR TO INSTALLATION OF THE NEW SIDEWALK AND INSTALL EXPANSION JOINT.
3. 1" MAX AGGREGATE.
4. CONTRACTOR SHALL INSTALL SIDEWALK EXPANSION JOINTS AT 20' MAX. INTERVALS AND CONSTRUCTION (SAWED JOINTS) ON 5' CENTERS FOR 5' WIDE SIDEWALKS AND 10' FOR ALL OTHER SIDEWALKS WIDER THAN 5'.
5. LINE UP JOINTS IN SIDEWALK W/ PAVING JOINTS.

TYPICAL CONCRETE SIDEWALK

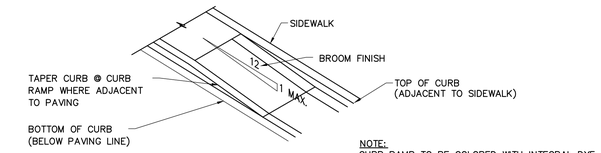
N.T.S.



SAWED JOINTS 1/8" WIDE OR LESS SHALL NOT BE SEALED.

SAWED JOINT

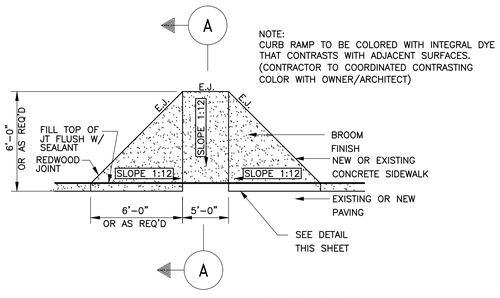
N.T.S.



NOTE:
CURB RAMP TO BE COLORED WITH INTEGRAL DYE THAT CONTRASTS WITH ADJACENT SURFACES.

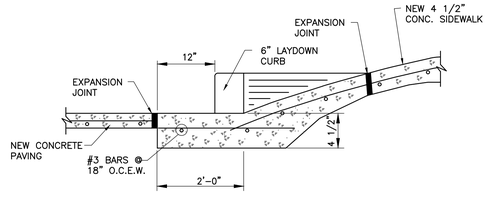
DIRECTIONAL CURB RAMP

N.T.S.



CURB RAMP

NTS



WHEEL CHAIR RAMP CROSS-SECTION "A-A"

N.T.S.

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

ARNOLD MIDDLE SCHOOL RENOVATION

11111 Telge Rd.
Houston, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
02-17-25

CLIENT
Cypress-Fairbanks Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

PAVING DETAILS

C701

11 Feb, 2025 2:11PM GregL
F:\project\BROOK_SP\PBK\7250160 Arnold MS\Civil\C701-7250150-DT-PAV.dwg
Includes Xref(s): X-TB.dwg; X-Seal.dwg

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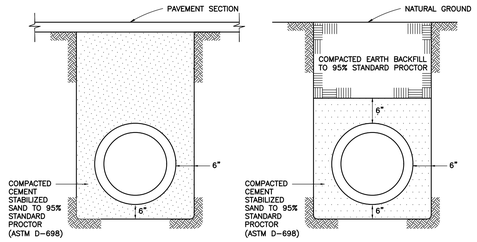
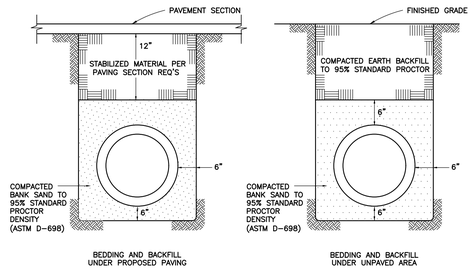


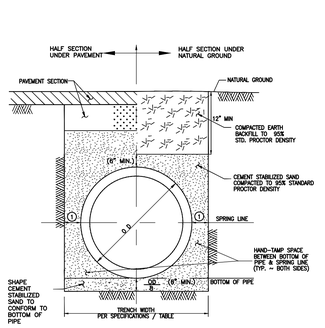
SANITARY SEWER TRENCH

N.T.S.



WATER LINE TRENCH

N.T.S.



RECOMMENDED MINIMUM TRENCH WIDTHS

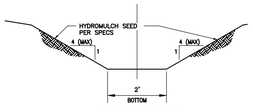
① 6" THRU 24" PIPE DIA. = 12" MIN. WIDTH.
30" AND GREATER PIPE DIA. = 18" MIN. WIDTH.

NOTES:

1. WHERE SOIL CONDITIONS REQUIRE, THE ENGINEER MAY ORDER USE OF GRANULAR MATERIAL IN LIEU OF CEMENT STABILIZED SAND BEDDING.
2. WHERE WET SAND IS ENCOUNTERED, REINFORCED CONCRETE PIPE SEWERS SHALL BE CONSTRUCTED USING APPROVED SPECIAL DESIGN AS SHOWN ON DRAWINGS.
3. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN. TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
4. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1.5 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE COMPACTED WITH EQUIPMENT TO A MINIMUM OF 95% (ASTM D-698) TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE TO THE BOTTOM OF THE PAVEMENT SUBGRADE.
5. ALL BEDDING AND BACKFILL SHALL BE INCLUDED IN THE COST OF THE PIPE.

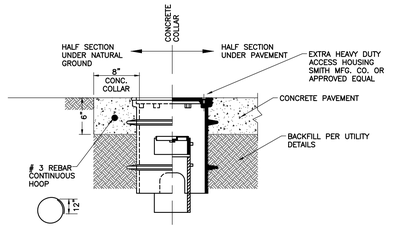
BEDDING FOR STORM SEWER

N.T.S.



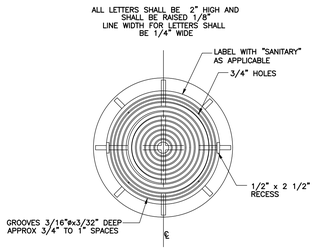
TYPICAL SWALE

N.T.S.



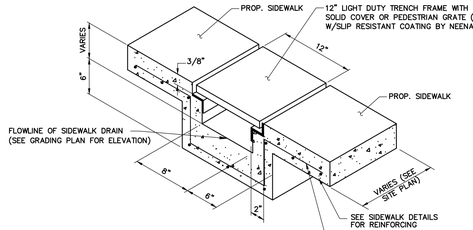
SANITARY SEWER CLEANOUT

N.T.S.



SANITARY SEWER MANHOLE COVER

N.T.S.

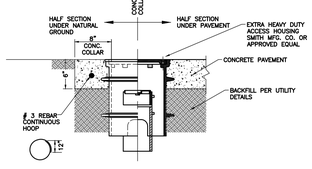


NOTE:

1. 2" CEMENT STABILIZED SAND SHALL BE INSTALLED AND COMPACTED BEFORE INSTALLATION.

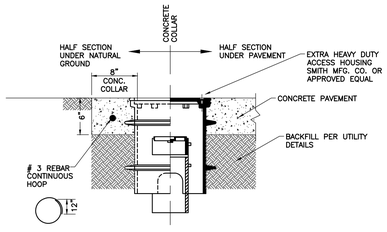
SIDEWALK DRAIN

N.T.S.



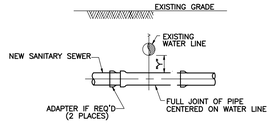
STORM SEWER CLEANOUT

N.T.S.



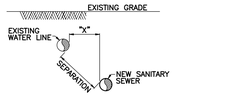
SANITARY SEWER CLEANOUT

N.T.S.



INSTALLATION REQUIREMENTS
1. IF "Y" IS GREATER THAN 6" AND "X" IS LESS THAN 2', USE MINIMUM 18 FT JOINT OF PRESSURE-RATED PIPE PER TABLE 02730-04.
2. IF "Y" IS GREATER THAN 2' AND "Y" IS LESS THAN 9', USE GRAVITY SEWER PIPE IN CEMENT-STABILIZED SAND EMBEDMENT.
3. IF "Y" IS GREATER THAN 9', USE STANDARD EMBEDMENT AND NORMAL JOINT SPACING.

NEW SANITARY SEWER CROSSING EXISTING WATER LINE



INSTALLATION REQUIREMENTS
1. IF "X" IS LESS THAN 9' AND SEPARATION IS LESS THAN 9', USE PRESSURE-RATED PIPE MH TO MH. "X" MUST BE AT LEAST 4 FT.
2. IF "X" IS GREATER THAN OR EQUAL TO 4' AND SEPARATION IS 9' OR GREATER, USE STANDARD PIPE AND EMBEDMENT.

NEW SANITARY SEWER PARALLEL TO EXISTING WATER LINE

NOTES:

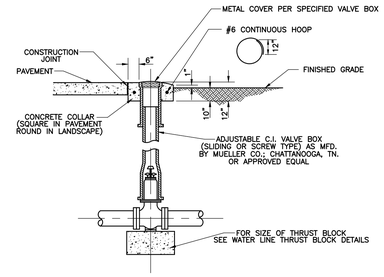
1. SANITARY SEWER MUST BE BELOW WATER LINE WHEREVER POSSIBLE. WHEN WATERLINE IS BELOW THE SANITARY SEWER PROVIDE MINIMUM 2 FT SEPARATION AND INSTALL PIPE SAME AS FOR SEWER BELOW WATER.
2. WHEN PRESSURE-RATED PIPE IS REQUIRED, PROVIDE PIPE WITH MINIMUM 150 psi PRESSURE RATING.
3. ADAPTERS MUST BE FACTORY MOLDED OR FABRICATED, WITH RING STIFFNESS AT LEAST EQUAL TO THE ADJOINING SANITARY SEWER PIPE, AND USING RESILIENT GASKET OR SEAL MATERIAL. FLEXIBLE RUBBER "BOOT" TYPE ADAPTERS WILL NOT BE ACCEPTED.
4. INSTALL FORCE MAINS SAME AS FOR GRAVITY SEWER, USING SPECIFIED PRESSURE PIPE.
5. "Y" MUST ALWAYS BE GREATER THAN OR EQUAL 6".
6. "X" MUST BE GREATER THAN OR EQUAL TO 4 FT.
7. ALTERNATIVES MAY BE SHOWN ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS.
8. SEPARATION REQUIREMENTS SHOWN HERE DO NOT APPLY TO SERVICE CONNECTIONS – REFER TO PLUMBING CODE FOR APPLICABLE REQUIREMENTS.
9. CEMENT–STABILIZED SAND SHALL BE 1½ SACKS OF CEMENT PER CUBIC YARD OF SAND.

TABLE 02730–04
SEWER LINE CROSSING BELOW WATER LINE WITHIN 2 FT SEPARATION

GRAVITY SANITARY SEWER PIPE SIZE	PRESSURE–RATED PIPE SIZE & TYPE (NOTE 2)	ADAPTERS REQUIRED
6" TO 12" (ASTM D–3034)	SAME SIZE ASTM D–2241, SDR 26	ASTM D–3034 TO D–2665 (SEWER TO D.M.V.) ADAPTER COUPLING
15" (ASTM D–3034)	14" LINED DUCTILE IRON OR AWWA C–905, DR–25	NONE REQUIRED
18" AND 24"	SAME SIZE AWWA C–905, PRESSURE–RATED FRP, OR LINED DUCTILE IRON, MANHOLE TO MANHOLE	NONE REQUIRED
21" AND 27"	PRESSURE PIPE NOT AVAILABLE, SEE CASING ALTERNATIVE	NOT APPLICABLE
30" AND LARGER	SAME SIZE PRESSURE–RATED FRP OR LINED DUCTILE IRON, MANHOLE TO MANHOLE	NOT APPLICABLE
CASING ALTERNATIVE: ANY SIZE AND TYPE	INSTALL AS CASING PIPE MIN 18 FT JOINT OF PRESSURE PIPE AT LEAST 2 NOMINAL SIZES LARGER THAN SAN. SEWER CARRIER PIPE, GROUT ANNULAR SPACE WITH TUNNEL GROUT	NOT APPLICABLE

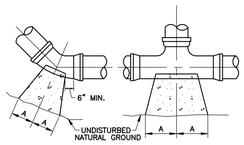
INSTALLATION OF SANITARY SEWER LINES CROSSING OR PARALLEL TO WATER LINES

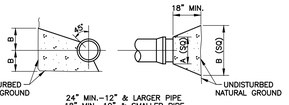
N.T.S.



VALVE BOX

N.T.S.



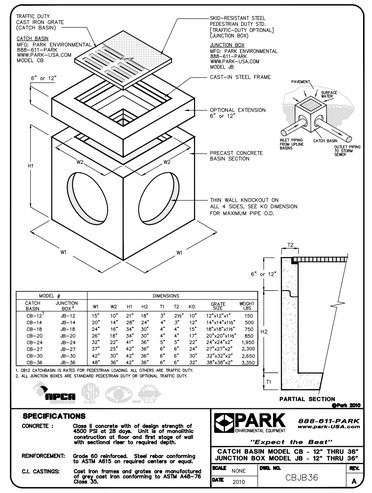


SIZE	90° BEND		45° BEND		22 1/2° BEND		TEES		PLUGS	
	A	B	A	B	A	B	A	B	A	B
2 1/2"	12"	7"	6"	7"	6"	6"	7"	8"	8"	14"
6"	16"	10"	9"	10"	6"	12"	10"	12"	10"	21"
8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

ALL CONCRETE SHALL BE MIN. 5SK, 3,000 P.S.I.

WATER LINE THRUST BLOCK

N.T.S.



MODEL #		DIMENSIONS							
CATCH BASIN	JUNCTION BOX	W1	W2	H1	H2	T1	T2	KO	GRATE SIZE	WEIGHT LBS
CB–12"	JB–12	15"	10"	21"	18"	3"	2¾"	10"	12"x12"x1"	150
CB–14	JB–14	20"	14"	28"	24"	4"	3"	12"	14"x14"x1¼"	500
CB–18	JB–18	24"	16"	34"	30"	4"	4"	15"	18"x18"x1¼"	750
CB–20	JB–20	28"	18"	34"	30"	4"	4"	17"	20"x20"x1¼"	850
CB–24	JB–24	33"	22"	41"	36"	5"	5"	23"	24"x24"x2"	1,950
CB–27	JB–27	37"	25"	43"	36"	6"	6"	24"	27"x27"x2"	2,000
CB–30	JB–30	41"	30"	42"	36"	6"	6"	30"	32"x32"x2"	2,650
CB–36	JB–36	49"	36"	47"	36"	6"	6"	32"	38"x38"x2"	3,950

1. CB12 CATCHBASIN IS RATED FOR PEDESTRIAN LOADING ALL OTHERS ARE TRAFFIC DUTY.
2. ALL JUNCTION BOXES ARE STANDARD PEDESTRIAN DUTY OR OPTIONAL TRAFFIC DUTY.

IPCA

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SPECIFICATIONS

CONCRETE : Class B concrete with at design strength of 3,000 psi at 28 days - Lots is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

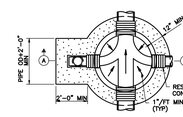
C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48–76 Class 30.

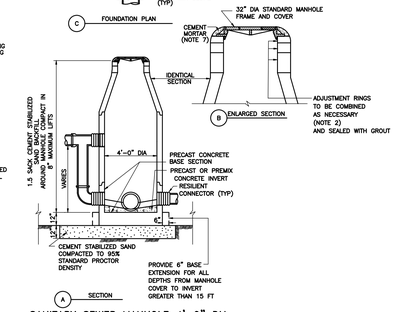
PARK ENVIRONMENTAL EQUIPMENT 888-611-PARK www.park-USA.com

"Expect the Best"

CATCH BASIN MODEL CB - 12" THRU 36"
JUNCTION BOX MODEL JB - 12" THRU 36"

SCALE	NONE	DWG. NO.	REV.
DATE	2010	CBJB.36	A





SANITARY SEWER MANHOLE 4'–0" DIA

N.T.S.

NOTES:

1. DEPTH OF MANHOLE DETERMINES SECTIONS REQUIRED.
2. PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 12". THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 1'–0".
3. MANHOLE WALL THICKNESS FOR DEPTH EXCEEDING 12'–0" SHALL BE DETERMINED TO MEET LOADING CONDITIONS. MIN THICKNESS 5".
4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR ON DRAWINGS OR WHEN DIFFERENCE IN FLOW LINE ELEVATIONS OF MANHOLE EXCEEDS 24".
5. SEAT MANHOLE FRAME IN SEALANT.
6. ECCENTRIC PRECAST CONCRETE MANHOLE MAY BE USED.
7. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
8. MIN. REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE # 5 @ 6" EW.
9. INTERIOR SURFACE OF MANHOLE SHALL BE SEALED WITH THANE COAT FE–100 OR APPROVED EQUAL AS PER MANUFACTURERS SPECIFICATIONS.

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F–880

STATE OF TEXAS
FRANK E. BROOKS
49225
REGISTERED
PROFESSIONAL ENGINEER
02-17-25

CLIENT
Cypress-Fairbanks Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date
	ISSUE FOR PROPOSAL	

MISCELLANEOUS DETAILS

C702

11 Feb 2025 2:12PM GregL
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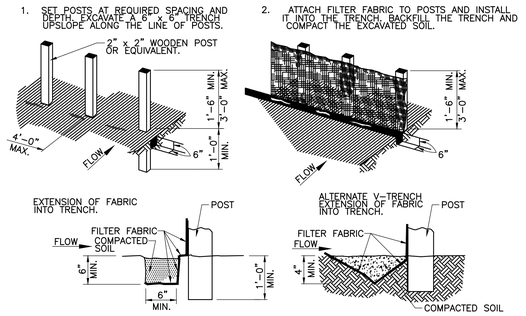
Includes Xref(s) X-TB.dwg, X-Seal.dwg

ISSUE FOR PROPOSAL

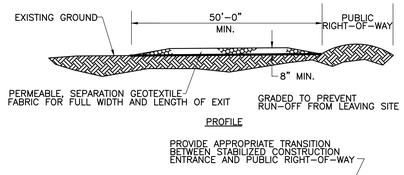


GENERAL NOTES:

1. SET POSTS AT 4-FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM.
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE.

FILTER FABRIC FENCE

SYMBOL



GENERAL NOTES:

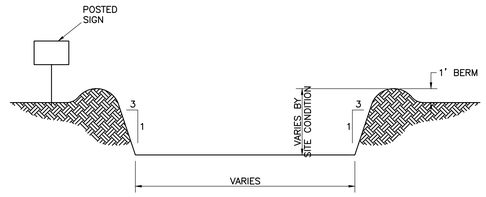
1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. ALTERNATIVE METHODS OF CONSTRUCTION INCLUDE
   -CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.
   -WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.
   -STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.

STABILIZED CONSTRUCTION ACCESS

SC

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION AND SUBMISSION OF ALL APPLICABLE STATE AND FEDERAL FORMS REQUIRED FOR STORM WATER POLLUTION PREVENTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, IMPLEMENTATION, MAINTENANCE, AND INSPECTION OF STORM WATER POLLUTION PREVENTION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, EROSION AND SEDIMENT CONTROLS, STORM WATER MANAGEMENT PLANS, WASTE COLLECTION AND DISPOSAL, OFF-SITE VEHICLE TRACKING, AND OTHER PRACTICES.
2. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL ADDITIONAL STORM WATER POLLUTION PREVENTION AND STORM WATER CONTROL MEASURES AND SUBMITTALS TO ALL GOVERNING AGENCIES INCLUDING THE EPA REQUIRED DURING CONSTRUCTION TO MEET THE GUIDELINES SET FORTH IN THE STORM WATER MANAGEMENT HANDBOOK FOR CONSTRUCTION ACTIVITIES PREPARED BY THE CITY OF HOUSTON, HARRIS COUNTY AND HARRIS COUNTY FLOOD CONTROL DISTRICT, LATEST EDITION.



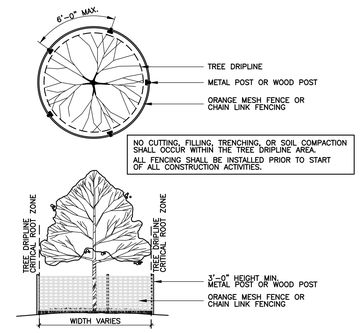
SECTION A-A
N.T.S.

GENERAL NOTES:

1. POST A SIGN READING "CONCRETE WASH OUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASH OUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASH OUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASH OUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS AND EQUIPMENT.

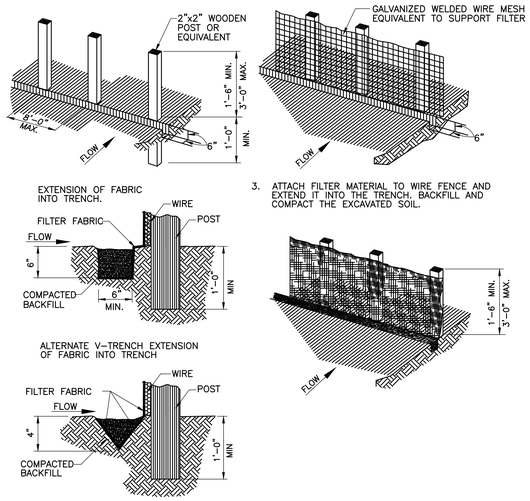
CONCRETE TRUCK WASH OUT AREA

CTW
SYMBOL



TREE PROTECTION DETAIL

1. SET POSTS AT REQUIRED SPACING AND DEPTH. EXCAVATE 6" x 6" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. SECURE MESH FENCING TO POSTS
3. ATTACH FILTER MATERIAL TO WIRE FENCE AND EXTEND IT INTO THE TRENCH. BACKFILL AND COMPACT THE EXCAVATED SOIL.

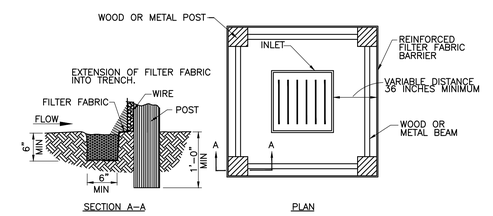


GENERAL NOTES:

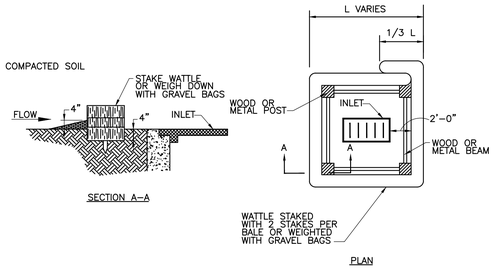
1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.

REINFORCED FILTER FABRIC BARRIER

RFB
SYMBOL



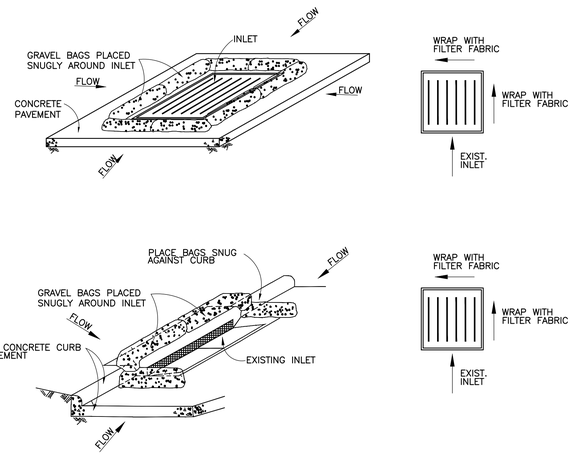
SEE REINFORCED FILTER FABRIC BARRIER DETAIL FOR REINFORCED FILTER FABRIC BARRIER REQUIREMENTS



NOTE:
TYPICALLY STRAW BALES ARE NOT RECOMMENDED FOR INLET PROTECTION BARRIERS.

INLET PROTECTION BARRIERS FOR STAGE I INLETS

IPB
SYMBOL



GENERAL NOTES:

1. BAGS OR WATTLES CAN BE USED FOR THIS APPLICATION.
2. PROVIDE WOVEN OR UNWOVEN GEOTEXTILE FILTER FABRIC FOR BAGS.
3. PROVIDE GRAVEL AGGREGATE MIX FOR FILL MATERIAL FOR BAGS. USE ONLY PARTICLES CONSISTING OF CLEAN, HARD, DURABLE MATERIALS FREE FROM ADHERENT COATINGS, SALT, ALKALI, DIRT, CLAY, LOAM, SHALE, SOFT OR FLAKY MATERIALS, OR ORGANIC AND INJURIOUS MATTER.
4. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.

INLET PROTECTION BARRIERS FOR STAGE II INLETS

IPB
STAGE II
SYMBOL

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PROFESSIONAL
ENGINEER
02-17-25

CLIENT
Cypress-Fairbanks Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date
	ISSUE FOR PROPOSAL	

STORM WATER POLLUTION PREVENTION DETAILS

C703

Plotted: 11 Feb 2025 2:12PM GregL
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Includes Xref(s): X-TB.dwg, X-Seal.dwg

FOR BLUEBEAM LABELING.OCR:

0"

1"

GENERAL NOTES:

1. VERIFY SITE INFORMATION, INCLUDING PROPERTY LINES, EASEMENTS, BUILDINGS, ROADWAY CURB AND GUTTERS, UTILITIES AND OTHER INFORMATION AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. MORE SPECIFIC UTILITY INFORMATION IS INDICATED ON THE CIVIL DRAWINGS.
2. CONTRACTOR SHALL CONTACT THE OWNER AND THE LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE DRAWINGS.
3. EXCAVATION IN THE VICINITY OF UTILITIES SHALL BE UNDERTAKEN WITH CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SITE UTILITIES PRIOR TO BEGINNING EXCAVATION. ANY DAMAGE TO UTILITIES THAT ARE TO REMAIN CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
4. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING IRRIGATION AND LANDSCAPE ON SITE FROM ANY DAMAGE. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF ANY CONFLICTS
5. BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINES, EASEMENTS, BUILDINGS, ROADS AND CURBS HAVE BEEN TAKEN FROM THE CIVIL ENGINEER'S DRAWINGS. FOR ADDITIONAL INFORMATION REFER TO ARCHITECT'S & CIVIL ENGINEERING DRAWINGS.
6. THE CONTRACTOR SHALL NOTIFY LOCAL AUTHORITIES AND THE GENERAL CONTRACTOR FOR LOCATION OF EXISTING UNDERGROUND UTILITIES. POT HOLE AS NECESSARY TO CONFIRM LOCATIONS PRIOR TO EXCAVATION.

DEMOLITION NOTES:

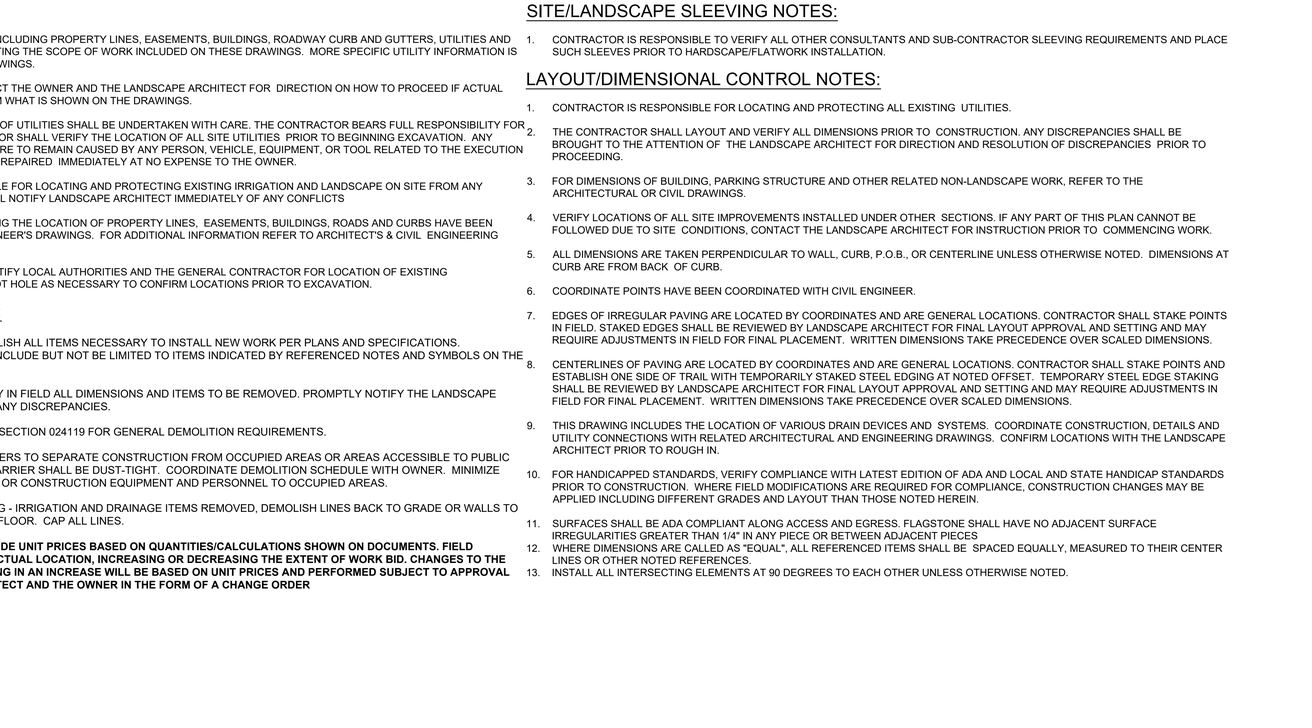
1. CONTRACTOR SHALL DEMOLISH ALL ITEMS NECESSARY TO INSTALL NEW WORK PER PLANS AND SPECIFICATIONS. DEMOLITION WORK SHALL INCLUDE BUT NOT BE LIMITED TO ITEMS INDICATED BY REFERENCED NOTES AND SYMBOLS ON THE DEMOLITION PLANS.
2. CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS AND ITEMS TO BE REMOVED. PROMPTLY NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
3. REFER TO SPECIFICATIONS SECTION 024119 FOR GENERAL DEMOLITION REQUIREMENTS.
4. INSTALL TEMPORARY BARRIERS TO SEPARATE CONSTRUCTION FROM OCCUPIED AREAS OR AREAS ACCESSIBLE TO PUBLIC OR OWNER EMPLOYEES. BARRIER SHALL BE DUST-TIGHT. COORDINATE DEMOLITION SCHEDULE WITH OWNER. MINIMIZE DISRUPTIONS FROM SOUND OR CONSTRUCTION EQUIPMENT AND PERSONNEL TO OCCUPIED AREAS.
5. FOR ALL EXISTING PLUMBING - IRRIGATION AND DRAINAGE ITEMS REMOVED, DEMOLISH LINES BACK TO GRADE OR WALLS TO REMAIN, ABOVE OR BELOW FLOOR. CAP ALL LINES.
6. **CONTRACTOR SHALL PROVIDE UNIT PRICES BASED ON QUANTITIES/CALCULATIONS SHOWN ON DOCUMENTS. FIELD CONDITIONS MAY REVISE ACTUAL LOCATION, INCREASING OR DECREASING THE EXTENT OF WORK BID. CHANGES TO THE EXTENT OF WORK RESULTING IN AN INCREASE WILL BE BASED ON UNIT PRICES AND PERFORMED SUBJECT TO APPROVAL OF THE LANDSCAPE ARCHITECT AND THE OWNER IN THE FORM OF A CHANGE ORDER**

SITE/LANDSCAPE SLEEVING NOTES:

1. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL OTHER CONSULTANTS AND SUB-CONTRACTOR SLEEVING REQUIREMENTS AND PLACE SUCH SLEEVES PRIOR TO HARDSCAPE/FLATWORK INSTALLATION.

LAYOUT/DIMENSIONAL CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
2. THE CONTRACTOR SHALL LAYOUT AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR DIRECTION AND RESOLUTION OF DISCREPANCIES PRIOR TO PROCEEDING.
3. FOR DIMENSIONS OF BUILDING, PARKING STRUCTURE AND OTHER RELATED NON-LANDSCAPE WORK, REFER TO THE ARCHITECTURAL OR CIVIL DRAWINGS.
4. VERIFY LOCATIONS OF ALL SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTION PRIOR TO COMMENCING WORK.
5. ALL DIMENSIONS ARE TAKEN PERPENDICULAR TO WALL, CURB, P.O.B., OR CENTERLINE UNLESS OTHERWISE NOTED. DIMENSIONS AT CURB ARE FROM BACK OF CURB.
6. COORDINATE POINTS HAVE BEEN COORDINATED WITH CIVIL ENGINEER.
7. EDGES OF IRREGULAR PAVING ARE LOCATED BY COORDINATES AND ARE GENERAL LOCATIONS. CONTRACTOR SHALL STAKE POINTS IN FIELD. STAKED EDGES SHALL BE REVIEWED BY LANDSCAPE ARCHITECT FOR FINAL LAYOUT APPROVAL AND SETTING AND MAY REQUIRE ADJUSTMENTS IN FIELD FOR FINAL PLACEMENT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
8. CENTERLINES OF PAVING ARE LOCATED BY COORDINATES AND ARE GENERAL LOCATIONS. CONTRACTOR SHALL STAKE POINTS AND ESTABLISH ONE SIDE OF TRAIL WITH TEMPORARILY STAKED STEEL EDGING AT NOTED OFFSET. TEMPORARY STEEL EDGE STAKING SHALL BE REVIEWED BY LANDSCAPE ARCHITECT FOR FINAL LAYOUT APPROVAL AND SETTING AND MAY REQUIRE ADJUSTMENTS IN FIELD FOR FINAL PLACEMENT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
9. THIS DRAWING INCLUDES THE LOCATION OF VARIOUS DRAIN DEVICES AND SYSTEMS. COORDINATE CONSTRUCTION, DETAILS AND UTILITY CONNECTIONS WITH RELATED ARCHITECTURAL AND ENGINEERING DRAWINGS. CONFIRM LOCATIONS WITH THE LANDSCAPE ARCHITECT PRIOR TO ROUGH IN.
10. FOR HANDICAPPED STANDARDS, VERIFY COMPLIANCE WITH LATEST EDITION OF ADA AND LOCAL AND STATE HANDICAP STANDARDS PRIOR TO CONSTRUCTION. WHERE FIELD MODIFICATIONS ARE REQUIRED FOR COMPLIANCE, CONSTRUCTION CHANGES MAY BE APPLIED INCLUDING DIFFERENT GRADES AND LAYOUT THAN THOSE NOTED HEREIN.
11. SURFACES SHALL BE ADA COMPLIANT ALONG ACCESS AND EGRESS. FLAGSTONE SHALL HAVE NO ADJACENT SURFACE IRREGULARITIES GREATER THAN 1/4" IN ANY PIECE OR BETWEEN ADJACENT PIECES
12. WHERE DIMENSIONS ARE CALLED AS "EQUAL", ALL REFERENCED ITEMS SHALL BE SPACED EQUALLY, MEASURED TO THEIR CENTER LINES OR OTHER NOTED REFERENCES.
13. INSTALL ALL INTERSECTING ELEMENTS AT 90 DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED.



KEY MAP

CENTER LINE

ALIGN — ALIGN

EXPANSION JOINT

CJ — CONTROL OR CONSTRUCTION JOINTS

R5'-0" — RADIUS

X / LXXX — PLAN ENLARGEMENT REFERENCE

X / LXXX — ELEVATION REFERENCE

X / LXXX — SECTION REFERENCE

X / LXXX — DETAIL REFERENCE

XX — SCHEDULE REFERENCE

ABBREVIATIONS

APPROX	APPROXIMATE
ADJ	ADJACENT
BC	BOTTOM OF CURB
BLDG	BUILDING
BR	BOTTOM OF RAMP
BS	BOTTOM OF STEP
BL	BUILDING LINE
BOC	BACK OF CURB
BW	BOTTOM OF WALL
CJ	CONTROL JOINT
CMU	CONCRETE MASONRY UNIT
COH	CITY OF HOUSTON
CONC	CONCRETE
CONT	CONTINUOUS
CL	CENTERLINE
CLR	CLEAR / CLEARANCE
CRS	COURSE
DIA	DIAMETER
DWG	DRAWINGS
GALV	GALVANIZED
EJ	EXPANSION JOINT
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EQ	EQUAL
ESMT	EASEMENT
EXIST	EXISTING
FF	FINISHED FLOOR
FL	FLOWLINE
FTG	FOOTING
FG	FINISHED GRADE
FOC	FACE OF CURB
FIN	FINISH
G	GUTTER
HT	HEIGHT
HP	HIGH POINT
INT	INTERIOR
LA	LANDSCAPE ARCHITECT
LF	LINEAR FEET
LP	LOW POINT
LOW	LIMIT OF WORK
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
OC	ON CENTER
OPP	OPPOSITE
PA	PLANTING AREA
PERP	PERPENDICULAR
PL	PROPERTY LINE
POB	POINT OF BEGINNING
PROP	PROPOSED
PVMT	PAVEMENT
PT	POINT
R	RADIUS
RE	REFER TO
REF	REFERENCE
REINF	REINFORCED
REQ	REQUIRED
ROW	RIGHT OF WAY
SCH	SCHEDULE
SSEJ	SUB-SURFACE EXPANSION JOINT
SEC	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SQ	SQUARE
SQFT	SQUARE FEET
STL	STEEL
SS	STAINLESS STEEL
SWE	STATIC WATER ELEVATION
TAN	TANGENT
TC	TOP OF CURB
THK	THICK / THICKNESS
TOB	TOP OF BANK
TOS	TOE OF SLOPE
TP	TOP OF PAVEMENT
TR	TOP OF RAMP
TS	TOP OF STEP
TW	TOP OF WALL
TY	TYPE
TYP	TYPICAL
UTL	UTILITY
WL	WATER LEVEL

Sheet List Table

Sheet Number	Sheet Title
L0.00	KEY MAP AND INDEX
L0.01	TREE PROTECTION
L0.02	TREE PROTECTION DETAILS
L1.00	DRAINAGE NOTES AND SCHEDULE
L1.01	GRADING AND DRAINAGE PLAN
L1.02	GRADING AND DRAINAGE PLAN
L1.03	GRADING AND DRAINAGE ENLARGEMENT
L1.04	GRADING AND DRAINAGE DETAILS
L2.00	MATERIALS NOTES AND SCHEDULE
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L3.01	HARDSCAPE DETAILS
L3.02	WALLS AND STAIRS
L3.03	LANDSCAPE FEATURES
L4.00	PLANTING NOTES AND SCHEDULE
L4.01	PLANTING PLAN
L4.02	PLANTING PLAN
L4.03	PLANTING ENLARGEMENT
L4.04	PLANTING DETAILS

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ACOUSTIC
ACOUSTIC
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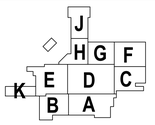
FOOD SERVICE
FSD
T 281-360-2323
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSALS

KEY PLAN



NORTH: PLAN TRUE

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date
	ISSUE FOR PROPOSALS	

BUILDING NUMBER

KEY MAP AND INDEX

L0.00

ISSUE FOR PROPOSALS

File Path: Z:\Edgeland\P_Project Drive\TEXAS\24_TX-Arnold MS-220023\4 Construction Documents

Plot Stamp:
2/14/2025 12:34:37 PM

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSALS

0"
1"

GENERAL TREE PROTECTION NOTES:

1. ALL TREES INDICATED ON THE TREE PRESERVATION PLANS TO BE PROTECTED SHALL BE PROTECTED WITH TEMPORARY FENCING THROUGHOUT CONSTRUCTION.
2. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION AND/OR SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING).
3. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES; FENCES SHALL BE LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIP LINE); AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT. FENCES MAY BE MOVED OR REMOVED TO ENABLE THE PROGRESS OF CONSTRUCTION ONLY AS APPROVED BY THE LANDSCAPE ARCHITECT.
4. WHERE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8' (OR TO THE LIMITS OF THE LOWER BRANCHING) AS INDICATED ON TREE PRESERVATION PLANS.
5. COVER THE ROOT ZONE AREA WITH 4" OF HARDWOOD MULCH, UNDER DIRECTION OF THE LANDSCAPE ARCHITECT, WHERE ROOT ZONES WITHIN DRIP LINES ARE UNPROTECTED BY FENCING.
6. ALL GRADING AND EXCAVATION WITHIN TREE ROOT ZONE AREAS SHALL BE DONE BY HAND TO MINIMIZE ROOT DAMAGE AND SOIL COMPACTION. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2' BEHIND THE GRADE CHANGE AREA. GRADE SHALL REMAIN UNCHANGED WHERE POSSIBLE.
7. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN A 3" LAYER SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL OR MULCH IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
8. EQUIPMENT MUST NOT TOUCH UNDERSIDE OF TREE CROWNS.
9. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF UTILITIES, LIGHTING, CONDUIT, OR LANDSCAPE IRRIGATION SHALL BE PLACED OUTSIDE ROOT ZONE AREAS. ROOTS SHALL NOT BE SEVERED AS A RESULT OF THE EXCAVATION. ROOTS SHALL REMAIN IN PLACE, BRIDGING TRENCHES. CONDUIT PIPES, ETC., SHALL BE PLACED BETWEEN ROOTS, WHILE EXPOSED ROOTS SHALL BE WRAPPED WITH BURLAP AND BE KEPT MOIST. AFTER BACKFILLING WITH SPECIFIED BEDDING, FILL REMAINING EXCAVATION WITH SOIL EXCAVATED FROM THE TRENCH. ANY EXCESS SOIL MAY BE DISPOSED OF ON SITE AS APPROVED BY THE LANDSCAPE ARCHITECT IN THE PROCESS OF EXCAVATION, AVOID STOCKPILING MATERIAL WITHIN THE DRIP LINE OF EXISTING TREES. IF UNAVOIDABLE, STOCKPILED MATERIAL SHALL BE PLACED ON PLYWOOD BOARD BASE SET ON TOP OF EXISTING GRADE. PLYWOOD BOARD BASE SHALL NOT REMAIN IN PLACE LONGER THAN (7) SEVEN DAYS.
10. ANY ROOT SEVERED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH SPECIFIED TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH SPECIFIED ORGANIC MATERIAL.
11. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIP-LINES, ROOT PRUNE BY MAKING A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW, IRRIGATION TRENCHER OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS.
12. TREES HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE WATERED THOROUGHLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER AS DIRECTED BY THE LANDSCAPE ARCHITECT. TREE CROWNS SHALL BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
13. HEAVY CONSTRUCTION EQUIPMENT SHALL NOT OPERATE WITHIN 3' OF ANY STRUCTURES OR 5' OF ANY TREES TO REMAIN
14. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS BY A RECOGNIZED ARBORIST.
15. ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES).
16. COVER SEVERED ROOTS AND TREE SIDE OF TRENCH WITH 8 MIL BLACK VISQUENE TO FULL DEPTH OF TRENCH AND 6" OVER TOP. STAPLE VISQUENE IN PLACE, BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL, TO PROTECT ROOT ENDS FROM CONCRETE AND LIME.
17. CORE AERATE AND DEEP ROOT FERTILIZE TREES BY PROBE AND WATER INJECTION OF DAVEY ARBOR GREEN FERTILIZER. REFER TO MANUFACTURER'S MAXIMUM RECOMMENDED RATES PER TREE CALIPER INCHES. INJECT 18"-24" DEEP 5'-0" O.C. THROUGHOUT DRIP-LINE OF TREE.
18. CONTRACTOR SHALL MODIFY EXHAUST PIPES ON CONSTRUCTION EQUIPMENT AS NEEDED TO INSURE THAT TREE CROWNS ARE NOT DAMAGED FROM EXHAUST HEAT FROM VERTICAL EXHAUST PIPES ON TOP OF CONSTRUCTION EQUIPMENT.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TREE WORK/REPAIR TO ANY DAMAGE TO EXISTING TREES DURING THE CONTRACT PERIOD. DAMAGE TO ANY EXISTING TREES SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL SUBMIT TO OWNER'S REPRESENTATIVE A WRITTEN PROGRAM OF CORRECTIVE PRUNING AND TREE CARE TO REPAIR DAMAGE WITH THE NAME OF A QUALIFIED URBAN FORESTER OR ARBORIST FOR OWNER'S APPROVAL.
20. PLANS ARE DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED TREE FENCING LIMITS.
21. ALL EXISTING TREES, IN DESIGNATED PROTECTED AREAS, MUST BE PRUNED TO AVOID DAMAGE BY EQUIPMENT DURING CONSTRUCTION OPERATIONS (REF. SPECIFICATIONS)
22. ALL EXISTING UTILITY MANHOLE COVERS AND GRATES TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE ELEVATIONS; REF. CIVIL DRAWINGS.
23. THESE NOTES ARE SUPPLEMENTARY TO SPECIFICATION SECTION 015639.

TREE REMOVAL NOTES:

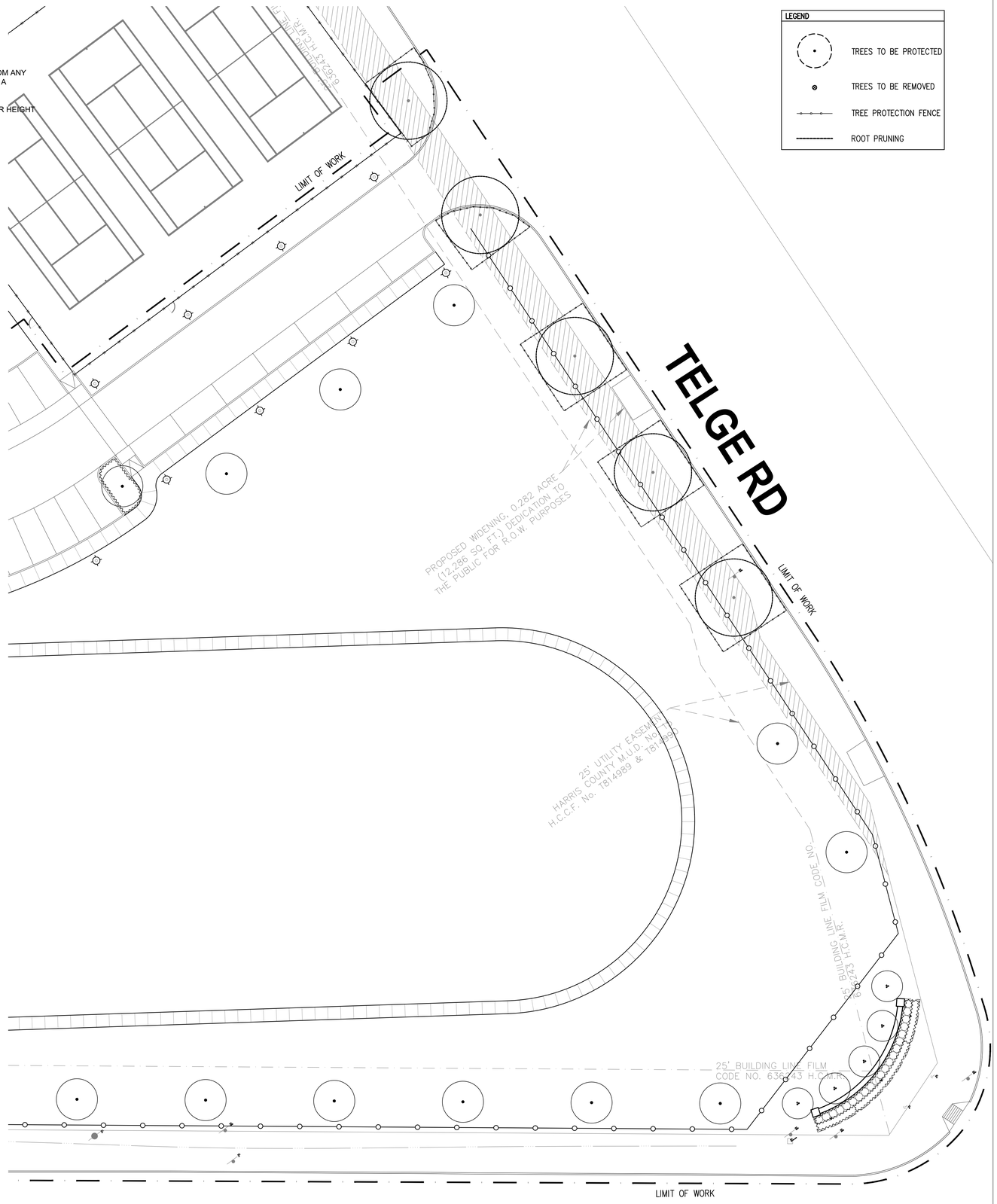
1. ALL TREES TO BE REMOVED SHALL BE MARKED PER TECHNICAL SPECIFICATIONS AND REMOVED UPON REVIEW AND APPROVAL BY OWNER AND LANDSCAPE ARCHITECT. ALL TREES REMOVED WITHOUT APPROVAL FROM LANDSCAPE ARCHITECT OR DAMAGED BY CONSTRUCTION ACTIVITY WILL BE REPLACED INCH FOR INCH.
2. ALL TREES 6" CALIPER AND UNDER IN AREAS NOT MARKED FOR REMOVAL SHALL REMAIN UNLESS OTHERWISE NOTED. ALL TREES 6" CALIPER AND LESS IN NOTED CLEARING AREAS SHALL BE REMOVED UNDER DIRECTION OF OWNER AND LANDSCAPE ARCHITECT.
3. ALL TREES REMOVED SHALL BE MULCHED ON SITE INCLUDING ALL LIMB/BRACH DEBRIS, TRUNK AND ROOT BALL SYSTEMS. MULCH GRIND SHALL BE STORED ON SITE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR REMOVAL AND STORAGE INFORMATION.

EXISTING TREE MAINTENANCE NOTES:

1. TREE MAINTENANCE SHALL OCCUR AS NOTED FOR ALL EXISTING TREES AS REQUIRED PER TECHNICAL SPECIFICATIONS ISSUED. SUCH OPERATIONS MAY INCLUDE TRIMMING, PRUNING, FERTILIZING, WATERING, ROOT PRUNING AND/OR FOLIAGE WASHING AS REQUIRED BY SITE ARBORIST OR LANDSCAPE ARCHITECT.
2. TREE MAINTENANCE OPERATIONS SHALL BE DEEMED HIGH PRIORITY AND SHALL OCCUR WHEN SUCH NOTED OPERATIONS ARE NOTED TO OCCUR AND SHALL OCCUR AS NOTED BY ARBORIST.

TREE PRUNING:

1. PRUNE EXISTING TREES AS NECESSARY TO ALLOW ADEQUATE CLEARANCE FOR CONSTRUCTION ACTIVITIES TO PREVENT DAMAGE TO LIMNS.
2. ALL WORK TO BE CONDUCTED BY A CERTIFIED ARBORIST.
3. OAK TREES SHALL NOT BE PRUNED BETWEEN FEB. 1ST & JUNE 1ST.
4. PAINT ALL CUTS WITH PRUNING SEALER WITHIN 20 MINUTES.
5. PRUNE & SHAPE TREES TO ESTABLISH MIN. CLEAR DISTANCE OF 3'-0" FROM ANY PART OF NEW BUILDING. PRUNE UNIFORMLY AROUND TREE TO MAINTAIN A BALANCED SHAPE.
6. PROVIDE 7FT. CLEAR HEIGHT ABOVE LANDSCAPE AREAS AND 10FT. CLEAR HEIGHT ABOVE DRIVES
7. TREE PRUNING IS THE RESPONSIBILITY OF THE CONTRACTOR



-290 FRONTAGE RD.

01 PLAN-TREE PROTECTION
NOT TO SCALE

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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSALS

J H G F
K E D C
B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED LANDSCAPE ARCHITECT
COBB T. GALLES
3826
STATE OF TEXAS
02/17/2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSALS

BUILDING NUMBER

TREE PROTECTION

L0.01

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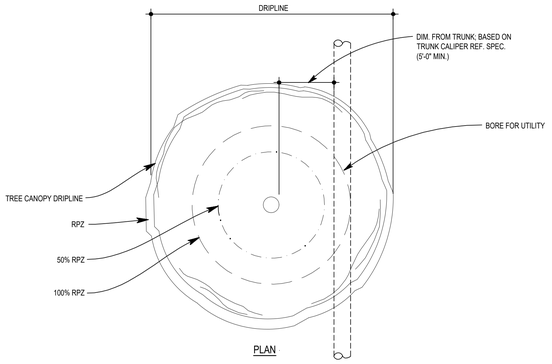
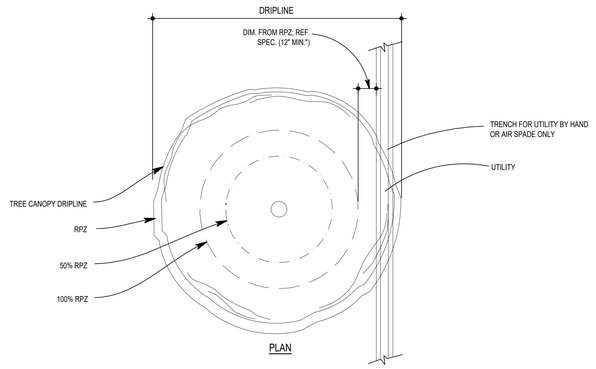
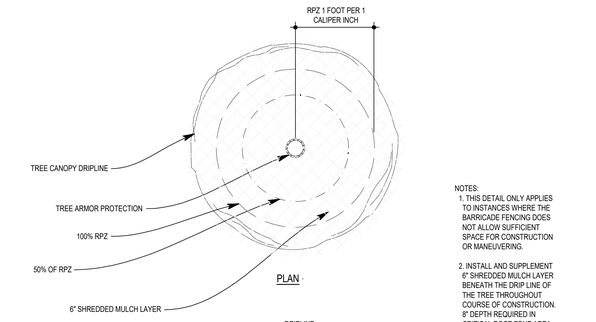






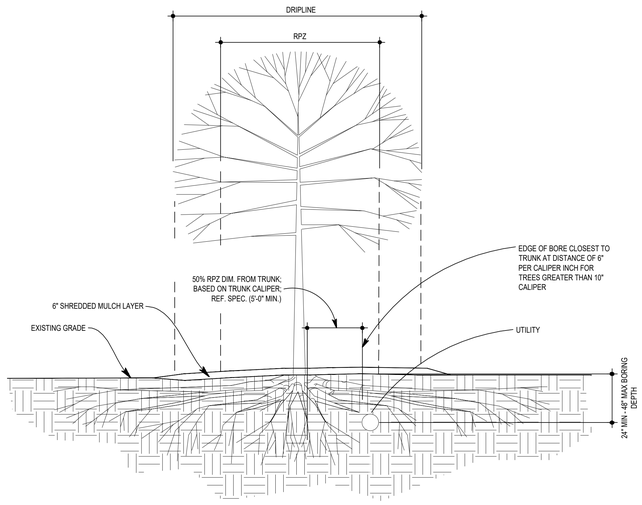
NOTES:
1. THIS DETAIL ONLY APPLIES TO INSTANCES WHERE THE BARRICADE FENCING DOES NOT ALLOW SUFFICIENT SPACE FOR CONSTRUCTION OR MANEUVERING.

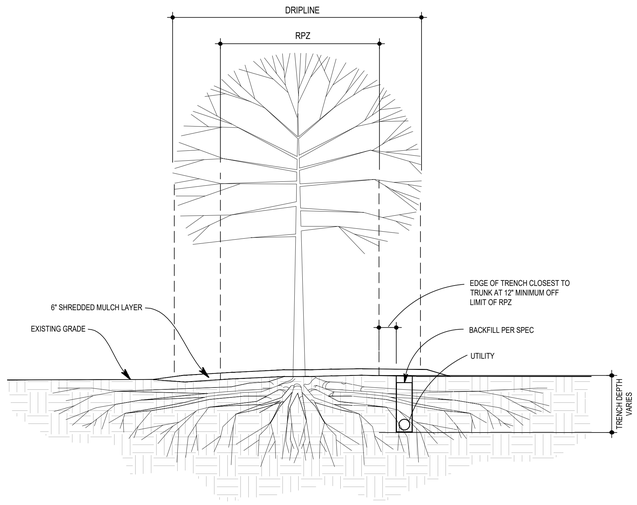
2. INSTALL AND SUPPLEMENT 6" SHREDDED MULCH LAYER BENEATH THE DRIP LINE OF THE TREE THROUGHOUT COURSE OF CONSTRUCTION. 6" DEPTH REQUIRED IN CRITICAL ROOT ZONE AREA. SEE SPEC.

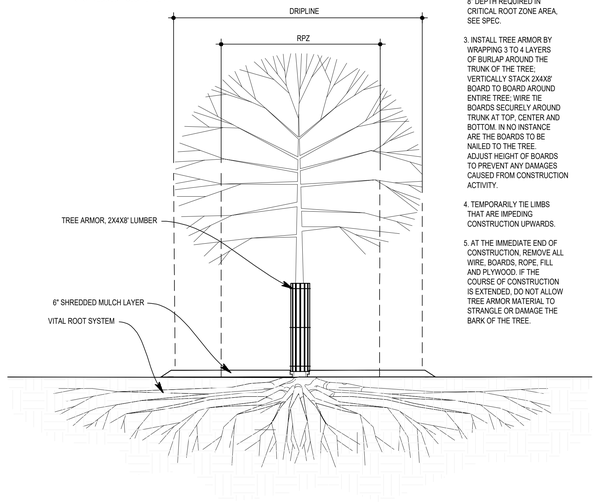
3. INSTALL TREE ARMOR BY WRAPPING 3 TO 4 LAYERS OF BURLAP AROUND THE TRUNK OF THE TREE; VERTICALLY STACK 2X4X8' BOARD TO BOARD AROUND ENTIRE TREE; WIRE TIE BOARDS SECURELY AROUND TRUNK AT TOP, CENTER AND BOTTOM. IN NO INSTANCE ARE THE BOARDS TO BE NAILED TO THE TREE. ADJUST HEIGHT OF BOARDS TO PREVENT ANY DAMAGES CAUSED FROM CONSTRUCTION ACTIVITY.

4. TEMPORARILY TIE LIMBS THAT ARE IMPEDING CONSTRUCTION UPWARDS.

5. AT THE IMMEDIATE END OF CONSTRUCTION, REMOVE ALL WIRE, BOARDS, ROPE, FILL AND PLYWOOD. IF THE COURSE OF CONSTRUCTION IS EXTENDED, DO NOT ALLOW TREE ARMOR MATERIAL TO STRANGLE OR DAMAGE THE BARK OF THE TREE.



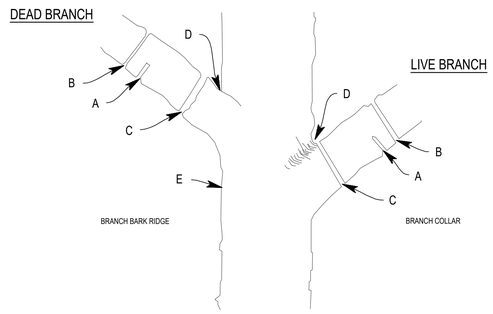




06 BORING WITH RPZ
3/4"=1'-0"

04 TRENCHING ADJACENT RPZ
3/4"=1'-0"

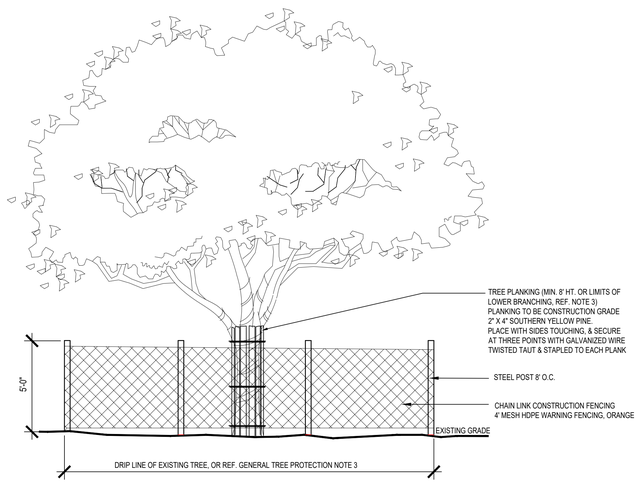
02 TREE ARMOR
3/4"=1'-0"

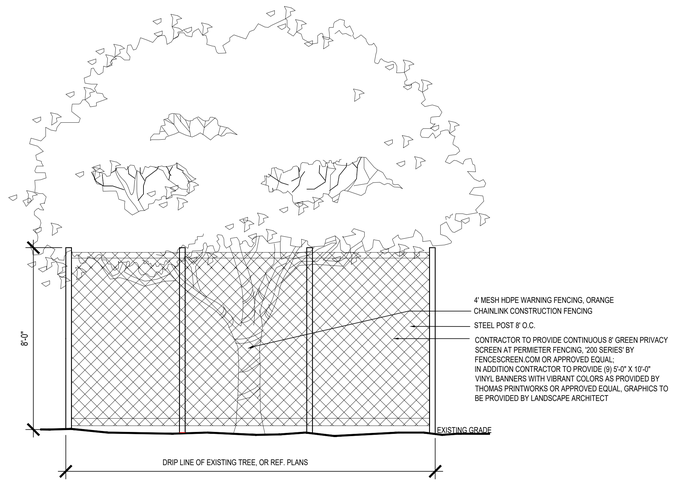


A. FIRST CUT - TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.
B. SECOND CUT - TO REDUCE THE WEIGHT OF BRANCH.
C. FINAL CUT - TO ALLOW FOR HEALING COLLAR BUT NO STUBS.
D. BRANCH RIDGES - PROPERLY INDENT BRANCH RIDGES WHICH ARE SITE FOR DECAY.
E. MAIN TRUNK OF TREE

NOTES:

1. PROPER PRUNING FOR BRANCHES 1-1/2" OR GREATER IN DIAMETER
2. DO NOT CUT FROM D TO E.
3. FOR OAKS ONLY: PAINT ALL WOUNDS AND CUTS IMMEDIATELY TO PREVENT THE SPREAD OF OAK WILT.
4. REFER TO SPECIFICATIONS, SECTION 015639 AND 311330 FOR MORE DETAILED REQUIREMENTS.
5. INSPECTION: CONTRACTOR, ARBORIST, OWNER, AND LANDSCAPE ARCHITECT SHALL REVIEW PRUNING WORK TO BE COMPLETED PRIOR TO INITIATING WORK.
6. EMPLOY QUALIFIED CERTIFIED ARBORIST; REFER TO SPECIFICATIONS.





05 TREE PRUNING DETAIL
1"=1'-0"

03 TREE PROTECTION FENCE
1"=1'-0"

01 PERIMETER CONSTRUCTION FENCE
1"=1'-0"

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CONSULTANT NAME
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Arnold Middle School
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CYPRESS, TX 77429
ISSUE FOR PROPOSALS

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED LANDSCAPE ARCHITECT
JACOB T. GALLEGOS
3922
STATE OF TEXAS
02/17/2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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TREE PROTECTION DETAILS

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DRAINAGE SCHEDULE (D)							
SYMBOL	NAME	DESCRIPTION	SUPPLIER	SIZE	COLOR	REMARK	DETAIL
	PLANTING DRAIN	ATRIUM DRAIN LOCATED WITHIN PLANTING	A.D.S.	9" X 9"	BLACK	REF. DETAIL	02
	LAWN DRAIN	FLUSH DRAIN LOCATED WITHIN LAWN	NDS	12" SQ.	BLACK	REF. DETAIL	01
		DIRECTION OF SLOPE ON PAVEMENT					
		DIRECTION OF SLOPE IN PLANTING					

GENERAL DRAINAGE NOTE(S):

1. 6-8"(IN) PVC STORM LINES CONNECTING LANDSCAPE DRAINAGE. CONTRACTOR TO PROVIDE 12"(IN) RCP CONNECTION INTO CIVIL'S STORM JUNCTION BOX COLLECTING THESE LANDSCAPE DRAIN LINES. USE WYE CONNECTIONS WHERE NECESSARY TO MINIMIZE REDUNDANT PIPING.
2. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE OF .5% MIN. SLOPE TO JUNCTION BOX FROM LANDSCAPE DRAINS
3. DRAINS TO CONNECT TO CIVIL STORM WATER SYSTEM UNLESS NOTED TO BE CONNECTED TO MEP SYSTEM
4. CONTRACTOR TO CONFIRM POSITIVE DRAINAGE AT ALL LOCATIONS
5. CONTOUR LINES PROVIDED FOR CONCEPTUAL PURPOSES.
6. CONFIRM ALL DOWNSPOUT CONNECTIONS AND PIPING WITH CIVIL AND ARCHITECTURE DRAWINGS

DEMOLITION NOTES:

1. CONTRACTOR SHALL DEMOLISH ALL ITEMS NECESSARY TO INSTALL NEW WORK PER PLANS AND SPECIFICATIONS. DEMOLITION WORK SHALL INCLUDE BUT NOT BE LIMITED TO ITEMS INDICATED BY REFERENCED NOTES AND SYMBOLS ON THE DEMOLITION PLANS.
2. CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS AND ITEMS TO BE REMOVED. PROMPTLY NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
3. REFER TO SPECIFICATIONS SECTION 024119 FOR GENERAL DEMOLITION REQUIREMENTS.
4. INSTALL TEMPORARY BARRIERS TO SEPARATE CONSTRUCTION FROM OCCUPIED AREAS OR AREAS ACCESSIBLE TO PUBLIC OR OWNER EMPLOYEES. BARRIER SHALL BE DUST-TIGHT. COORDINATE DEMOLITION SCHEDULE WITH OWNER. MINIMIZE DISRUPTIONS FROM SOUND OR CONSTRUCTION EQUIPMENT AND PERSONNEL TO OCCUPIED AREAS.
5. FOR ALL EXISTING PLUMBING - IRRIGATION AND DRAINAGE ITEMS REMOVED, DEMOLISH LINES BACK TO GRADE OR WALLS TO REMAIN, ABOVE OR BELOW FLOOR. CAP ALL LINES.
6. **CONTRACTOR SHALL PROVIDE UNIT PRICES BASED ON QUANTITIES/CALCULATIONS SHOWN ON DOCUMENTS. FIELD CONDITIONS MAY REVISE ACTUAL LOCATION, INCREASING OR DECREASING THE EXTENT OF WORK BID. CHANGES TO THE EXTENT OF WORK RESULTING IN AN INCREASE WILL BE BASED ON UNIT PRICES AND PERFORMED SUBJECT TO APPROVAL OF THE LANDSCAPE ARCHITECT AND THE OWNER IN THE FORM OF A CHANGE ORDER**

GRADING AND EXCAVATION NOTES:

1. ALL EARTHWORK SHALL HAVE MAXIMUM 3:1 SLOPES UNLESS OTHERWISE NOTED.
2. ANY EXISTING AND/OR ON-SITE CONDITIONS WHICH VARY FROM THOSE SHOWN ON DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
3. ALL GRADING SHALL PROVIDE FOR NATURAL RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. FLOW LINES SHALL BE ACCURATELY SET AND SHALL NOT BE LESS THAN 0.5% GRADIENT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE DRAINAGE IN ALL AREAS.
4. REFER TO THE GENERAL CONDITIONS AND THE TECHNICAL SPECIFICATIONS SECTIONS FOR THE PLACEMENT, COMPACTION, GRADING AND TESTING OF ALL FILL MATERIAL.
5. REFER TO CIVIL DOCUMENTS FOR ALL SITE EROSION CONTROL.
6. ROUGH OR MASS GRADING SHALL BE AS SHOWN ON THE CIVIL ENGINEERS DRAWINGS, REFERENCE THESE DRAWINGS FOR FINISH GRADING.
7. THE DEBRIS CREATED BY GRADING AND EXCAVATION OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF AWAY FROM THE JOB SITE.
8. CONTRACTORS SHALL TAKE CARE IN MINIMIZING THE DISTURBANCE TO THE EXISTING TREE TRUNKS AND ROOT SYSTEMS. ALL FINISH GRADING UNDER THE EXISTING TREES SHALL BE COMPLETED BY USING HAND TOOLS. NO LARGE EQUIPMENT OR ANY EQUIPMENT WITH TRACKS SHALL BE ALLOWED TO WORK OR DRIVE UNDER THE DRIP LINE OF THE EXISTING TREES, EXCEPT FOR THOSE AREAS WHERE PAVING IS TO BE PLACED.
9. HAND EXCAVATE AND HAND COMPACT AREAS UNDER DRIP LINES OF EXISTING TREES.
10. ALL EXCAVATION WITHIN THE DRIP LINES OF EXISTING TREES SHALL BE RADIAL TO THE TRUNK.
11. FOR EXISTING UNDERGROUND UTILITIES REFER TO CIVIL ENGINEER'S PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION AND ELEVATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION OF THE NEW AMENITIES. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
12. REFER TO CIVIL AND PLUMBING ENGINEER'S DRAWINGS FOR CONNECTIONS TO DRAINS AND CONTINUATION TO DISCHARGE PIPING.
13. EXISTING UTILITY STRUCTURES AND LIDS ARE TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE (UNLESS OTHERWISE NOTED).
14. ALL PLANTER DRAIN RIM INVERT ELEVATIONS SHALL BE 3" MIN. BELOW TOP OF ADJACENT PAVEMENT ELEVATIONS. ALL FLOW LINE ELEVATIONS SHALL BE SET @ MIN. 12" BELOW DRAIN ELEV. @ HIGH END. REF. DRAWINGS FOR INVERTS.
15. ALL LAWN DRAIN RIM INVERT ELEVATIONS SHALL BE 2" MIN. BELOW TOP OF ADJACENT PAVEMENT ELEVATION. ALL FLOW LINE ELEVATIONS SHALL BE SET @ MIN. 12" BELOW DRAIN ELEV. @ HIGH END. REF. DRAWINGS FRO INVERTS.
16. AFTER PLACEMENT AND ADJUSTMENT OF DRAIN BODIES TO PROPOSED FINISH GRADES, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO COORDINATE AND APPROVE FINAL GRADES IN ALL AREAS.
17. GRADING ON TRAILS TO BE CONSISTENT AND TO TRANSITION WITH EXISTING GRADES. TRAIL SECTION SHALL BE CROWNED IN FLAT AREAS AND SLOPED AT 2% TO THE DOWNHILL SIDE.
18. THE CONTRACTOR SHALL REQUEST A REVIEW FOR INSPECTION OF FINAL IN PLACE GRADING A MINIMUM OF 48 HOURS IN ADVANCE OF PERFORMING ANY WORK UNLESS OTHERWISE NOTED ON THIS SHEET. FINAL GRADING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD AND PRIOR TO SURFACE CONSTRUCTION AND PLANTING.
19. ALL SLOPES SHALL BE SMOOTH AND UNIFORM. LEVEL AND GENTLY CROWN TOP OF SLOPES. BLEND TOE OF SLOPES INTO EXISTING GRADES

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DRAINAGE NOTES AND SCHEDULE

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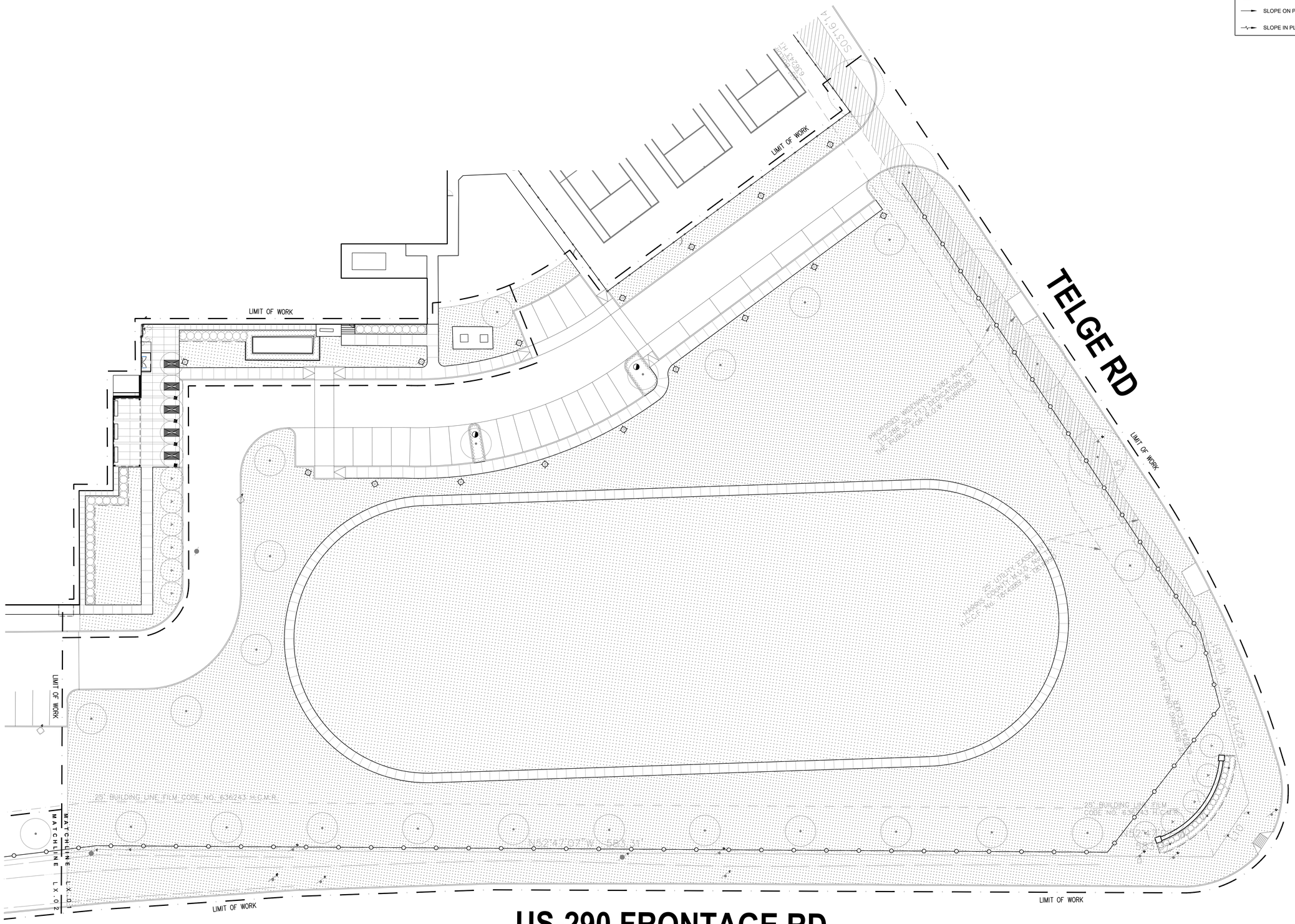
ISSUE FOR PROPOSALS



0 10' 20'
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EDGELAND GROUP
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AVAC
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FSD
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POOL/AQUATICS
CONSULTANT NAME
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Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSALS

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED LANDSCAPE ARCHITECT
JACOB T. GALLEGOS
3825
STATE OF TEXAS
02/17/2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSALS
BUILDING NUMBER

GRADING AND DRAINAGE PLAN

L1.01

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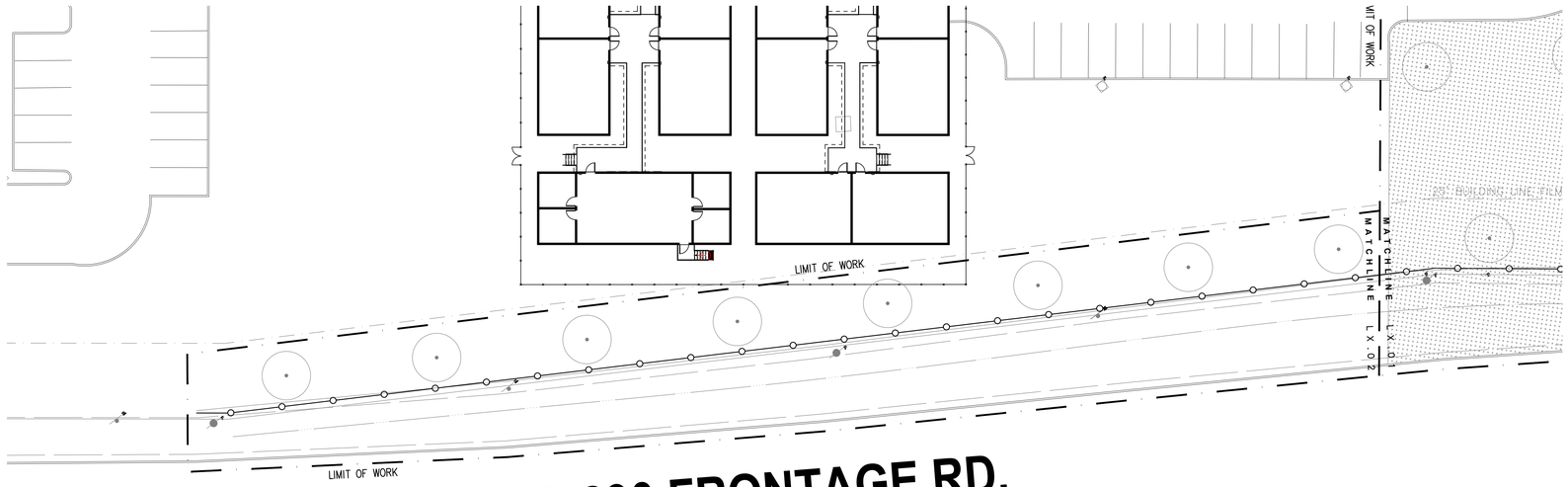
GRADING LEGEND

- PLANTING DRAIN
- LAWN DRAIN
- SLOPE ON PAVEMENT
- SLOPE IN PLANTING



US-290 FRONTAGE RD.

0 10' 20'
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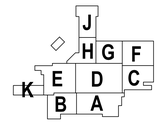
KEY PLAN



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DISCIPLINE

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Cy-Fair Independent School District

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GRADING AND DRAINAGE PLAN

L1.02

FOR BLUEBEAM LABELING/OCR:

0"
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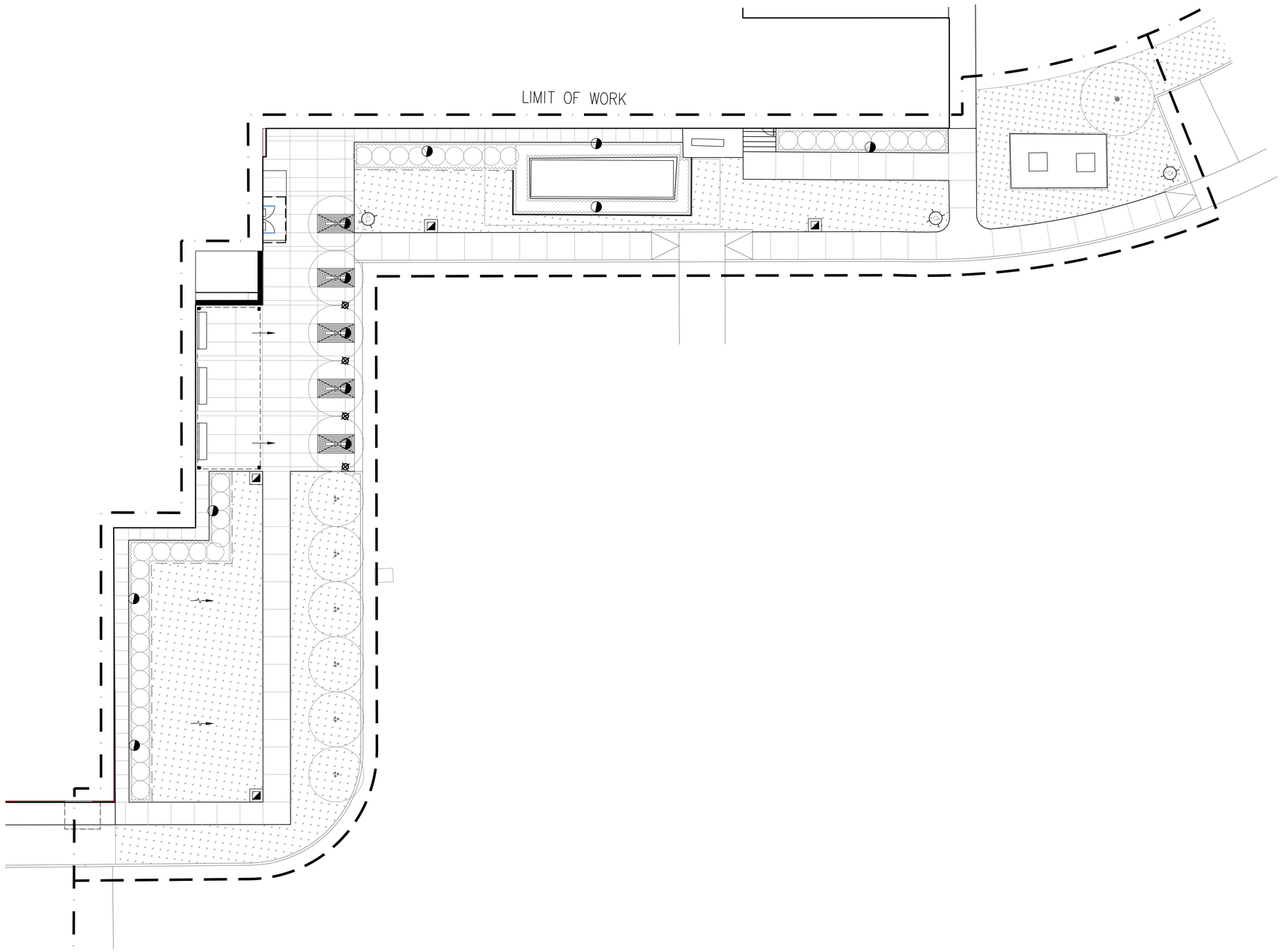
ISSUE FOR PROPOSALS

GRADING LEGEND

- PLANTING DRAIN
- LAWN DRAIN
- SLOPE ON PAVEMENT
- SLOPE IN PLANTING



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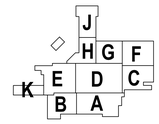

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GRADING AND DRAINAGE ENLARGEMENT

L1.03

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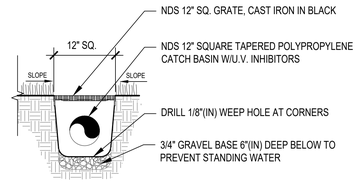
1"

02 SECTION-PLANTING DRAIN

1"=1'-0"



01 SECTION-LAWN AREA DRAIN

1"=1'-0"

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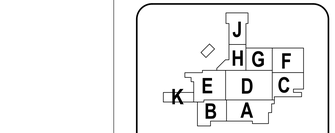

KEY PLAN

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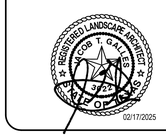
DISCIPLINE



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BUILDING NUMBER

GRADING AND DRAINAGE DETAILS

L1.04

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ISSUE FOR PROPOSALS

CONCRETE CONSTRUCTION NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MASONRY CONSTRUCTION, CONCRETE FOOTINGS, BEAMS AND STRUCTURAL SUPPORTS, ETC., PRIOR TO STARTING WORK. CONTRACTOR SHALL PROVIDE FULL ONE YEAR WARRANTY. ALL DETAILS SHOWN ARE FOR DESIGN INTENT. CONTRACTOR IS RESPONSIBLE FOR OVERALL STRUCTURAL INTEGRITY OF COMPONENTS, AND SHALL MAKE REVISIONS TO DESIGNS HE DEEMS NECESSARY FOR THE WARRANTY PROVISIONS. REVISIONS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT AND THE OWNER FOR APPROVAL.
2. ALL POURED CONCRETE OR CONCRETE MASONRY UNIT DIRECTLY CONTACTING SOIL SHALL BE COATED WITH AN ASPHALTIC WATER PROOF MEMBRANE SEALER, "GULF STATES" OR EQUAL. PRIME WITH GULF STATES #207 MIN. 8 MM THICK. TROWEL APPLY $\frac{1}{16}$" LAYER OF GULF STATES #210 ASPHALTIC MEMBRANE SEALER
3. ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR AGAINST MATERIAL DEFECTS AND WORKMANSHIP FOR A PERIOD OF TWO YEARS AFTER SUBSTANTIAL COMPLETION UNLESS OTHERWISE STATED ABOVE.

CONCRETE

1. MIN. 28 DAY STRENGTH AS FOLLOWS:
   FOUNDATIONS-3,000 PSI
   MIN. CEMENT CONTENT-5 SACKS/CY
   MAXIMUM WATER/CEMENT RATIO-0.50
   SLUMP RANGE-3 $\frac{1}{2}$"MIN-5 $\frac{1}{2}$" MAX
2. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.
3. FLY ASH-IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, SHALL BE LIMITED TO 20% OF CEMENTITIOUS MATERIALS.

REINFORCING:

1. ASTM A615 (Fy=60 KSI) DEFORMED BARS FOR ALL BARS
2. ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706.
3. WELDED WIRE FABRIC PER ASTM A185, WIRE PER ASTM A82.
4. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER.
5. LATEST ACI CODE AND DETAILING MANUAL APPLY.
6. CLEAR CONCRETE COVERAGE AS FOLLOWS:
   6.1. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH-3"
   6.2. EXPOSED TO EARTH OR WEATHER
   6.2.1. #6 OR LARGER-2"
   6.2.2. #5 OR SMALLER-1 $\frac{1}{2}$"
   6.2. FLAT SLAB- 2"
   6.3. ALL OTHER PER LATEST EDITION OF ACI 318

CONTROL AND EXPANSION JOINT NOTES:

1. PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDING OR WHERE CONCRETE ABUTS UTILITY VAULTS OR BOXES. REQUIRED EXPANSION JOINTS AT ALL VAULTS AND VERTICAL STRUCTURES MAY NOT BE SHOWN ON THESE DRAWINGS BUT ARE A CONSTRUCTION REQUIREMENT.
2. **CONTRACTOR TO PROVIDE SHOP DRAWING(S) FOR OVERALL LAYOUT OF ALL CONTROL AND EXPANSION JOINTS.**

METAL FABRICATION NOTES:

1. ALL METAL COMPONENTS TO BE STEEL OR ALUMINUM AS INDICATED
2. STANDARDS: SUBMIT SPECIFICATIONS ON ALUMINUM AND STEEL GRADE AND QUALITY FOR APPROVAL
3. WELDS TO BE CONTINUOUS AND NEAT, GRIND SMOOTH AND FLUSH, GRIND INSIDE CORNERS TO SMOOTH ROUNDED FORM.
4. PREPARATION: BLAST AND GRIND/WIRE BRUSH TO REMOVE ALL MILL SCALE AND SURFACE FLAKING, AND AS RECOMMENDED BY PRIMER MANUFACTURER.
5. PAINTING
   5.1. PRIMER AND COATING APPLICATION: TO BE **MATTHEWS PAINT SYSTEM**. LANDSCAPE ARCHITECT TO PROVIDE SELECTION AND APPROVAL ON APPLIED COLORS AND FINISHES.
   5.2. SUBMIT PAINTED METAL SAMPLES FOR APPROVAL
6. GALVANIZED
   6.1. HOT DIP GALVANIZE ALL COMPONENTS INCLUDING HARDWARE
   6.2. NO SPRAY GALVANIZATION WILL BE ACCEPTED

PAVING SCHEDULE (P)

SYMBOL	KEY	DESCRIPTION	SUPPLIER	MATERIAL	SIZE	COLOR	FINISH	REMARK	DETAIL
	P1	CONCRETE PAVING: PEDESTRIAN RATED	-	CONCRETE	-	NATURAL GREY	MED. BROOM FINISH	-REINFORCEMENT AND SIZING REF. CIVIL	01 L3.01
	P2.1	CONCRETE PAVING: PEDESTRIAN RATED WITH FINISH AND SAWCUT JOINTS	-	CONCRETE	-	NATURAL GREY	TOP-CAST 05	-CONTRACTOR SHALL SUBMIT 5'X5' MOCK UP FOR LA APPROVAL	01 L3.01
	P2.2	CONCRETE PAVING: MEDIUM DUTY WITH SAWCUT JOINTS	BOMANITE HOUSTON	CONCRETE	-	GOBI DESERT	ROCK SALT FINISH	-CONTRACTOR SHALL SUBMIT 5'X5' MOCK UP FOR LA APPROVAL -CONTACT ERIC ORTIZ WITH BOMANITE AT 346.689.5266	01 L3.01
	SE	STEEL EDGING	COL-MET	STEEL	1/4"TH	-	GALVANIZED	REF. SPECS	07 L4.04

PAVING NOTE(S):
1. S(FT)X(FT) MOCK-UPS TO BE PROVIDED FOR ALL PAVING SYSTEMS, EDGELAND TO PROVIDE APPROVAL BEFORE INSTALLATION
2. CONTRACTOR TO PROVIDE SHOP DRAWING LAYOUT FOR ALL CONTROL AND EXPANSION JOINTS FOR LA APPROVAL
3. FOR SUBSTITUTIONS TO BE APPROVED, CONTRACTOR TO SUBMIT EQUALS PRIOR TO BIDS BEING ACCEPTED

CURB, STEP AND WALL SCHEDULE (C,S,W)

KEY	DESCRIPTION	MATERIAL	SUPPLIER	SIZE	FINISH	REMARK	DETAIL
C1	CURB: MOUNTABLE, REF. CIVIL	CONCRETE	-	-	-	-REF. CIVIL	
W1	MONUMENT WALL	MASONRY	-	REF. DETAILS	-	-BRICK VENEER TO MATCH BUILDING, REF. ARCH PLANS	01 L3.02
W2	UTILITY SCREEN WALL	STEEL	RENFROW+CO	REF. DETAILS	-	-CONTACT CHRISTAIN CARTER @ 214.971.0426	03 L3.03
R1	CURB RAMP: TYP. CONCRETE CURB RAMP	-	-	-	-	-REF. CIVIL	

AMENITY SCHEDULE (A)

KEY	DESCRIPTION	MATERIAL	SUPPLIER	SIZE	COLOR	FINISH	REMARK	DETAIL
A1	BENCH: 40003C KONG BENCH	LINSEED OIL PROOFED NODIC PINE / HOT-DIP GALVANISED & POWDER-COATED STEEL	VESTRE	-	TBD	-	- CASTING IN THE GROUND -CONTACT JOHN PATTERSON @ 512.554.1041	
A2	ORN. FENCE-6' TALL	-	-	-	-	-	-REF. ARCH	
A3	SHADE STRUCTURE	STEEL	RENFROW + CO	-	TBD	POWDERCOATED	-CONTACT CHRISTAIN CARTER @ 214.971.0426	01 L3.03
A4	TREE GRATE	IRON	URBAN ACCESSORIES	4' X 8'	-	OIL RUBBED FINISH	-CONTACT SPRUCE & GANDER @ 760.690.4083	02 L3.01
A5	BOLLARD: ROUGH&READY	STEEL/WOOD	STREETLIFE	30" HT.	TBD	POWDERCOATED	-COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT	

LIGHTING SCHEDULE

SYMBOL	KEY	DESCRIPTION	SUPPLIER	COLOR TEMP.	SIZE	COLOR	FINISH	REMARK	DETAIL
	L1	PEDESTRIAN POLE LIGHT: PFL230 LED W/ AML-Z-ANC POLE	WE-EF LIGHTING	3000K	14' H	RAL9004 BLACK	-	CONTACT SAMANTHA RUSSEM @ CW LIGHTING (713) 690-9320	
	L2	UPLIGHT: FLC300	WE-EF LIGHTING	3000K	2.3" D	RAL9004 BLACK	-	CONTACT SAMANTHA RUSSEM @ CW LIGHTING (713) 690-9320	
	L3	SCONCE LIGHT: VLS410 LED	WE-EF LIGHTING	3000K	6.69"X4.13"X10.04"	RAL9004 BLACK	-	CONTACT SAMANTHA RUSSEM @ CW LIGHTING (713) 690-9320	

LIGHTING NOTE(S):
1. **FOUNDATIONS FOR PEDESTRIAN POLES TO BE MAX 3" ABOVE ADJACENT PAVING, NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS.**
2. ALL LIGHT POLE FOUNDATIONS LOCATED WITHIN PEDESTRIAN PAVING TO BE LOCATED FLUSH WITH PAVING
3. ALL EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTOCELL
4. LIGHTING FOR ANY STAGE OR AMPHITHEATER AREAS TO BE ON SEPARATE CONTROLLED CIRCUIT

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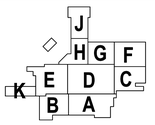

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MATERIALS NOTES AND SCHEDULE

L2.00

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0"
1"

ISSUE FOR PROPOSALS

MATERIALS LEGEND

TYP. CONCRETE

', REF.

'ING PLAN

LIMIT OF WORK

ENLARGEMENT, REF. L2.03

RELOCATE EXIST. SOFTBALL BACKSTOP

LIMIT OF WORK

LIMIT OF WORK

LIMIT OF WORK

25' BUILDING LINE FILM CODE NO. 636243 H.C.M.R.

25' BUILDING LINE FILM CODE NO. 636243 H.C.M.R.

25' BUILDING LINE FILM CODE NO. 636243 H.C.M.R.

MATCHLINE L.X.01

MATCHLINE L.X.02

30" OAK

30" OAK

30" OAK

30" OAK

TELGE RD

US-290 FRONTAGE RD.

0 10' 20'
1" = 20'

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STATE OF TEXAS
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MATERIALS PLAN

L2.01

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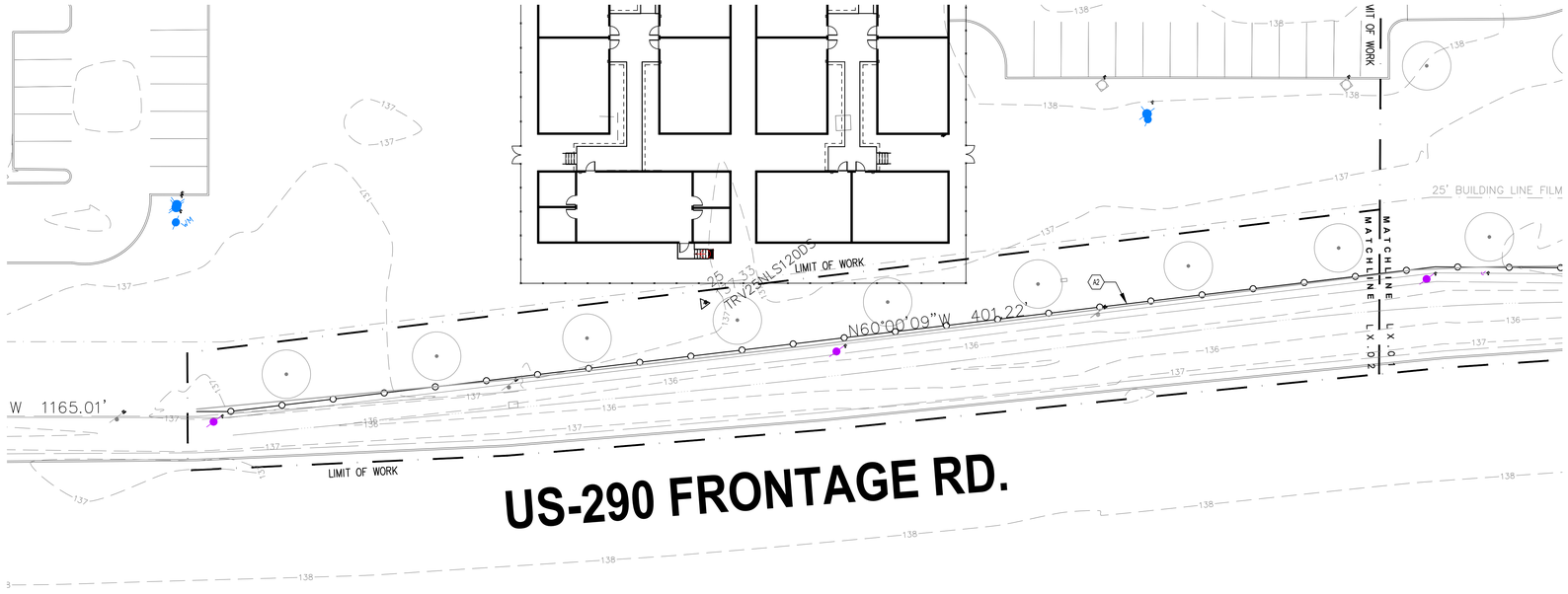
ISSUE FOR PROPOSALS

MATERIALS LEGEND

- TYP. CONCRETE
- SPECIALTY CONCRETE
- SPECIALTY CONCRETE
- TOOLED OR SAW CUT JOINT, REF. CALLOUT
- EXPANSION JOINT
- PA — PLANTED AREA, REF. PLANTING PLAN



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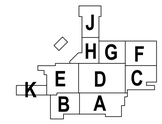

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MATERIALS PLAN

L2.02

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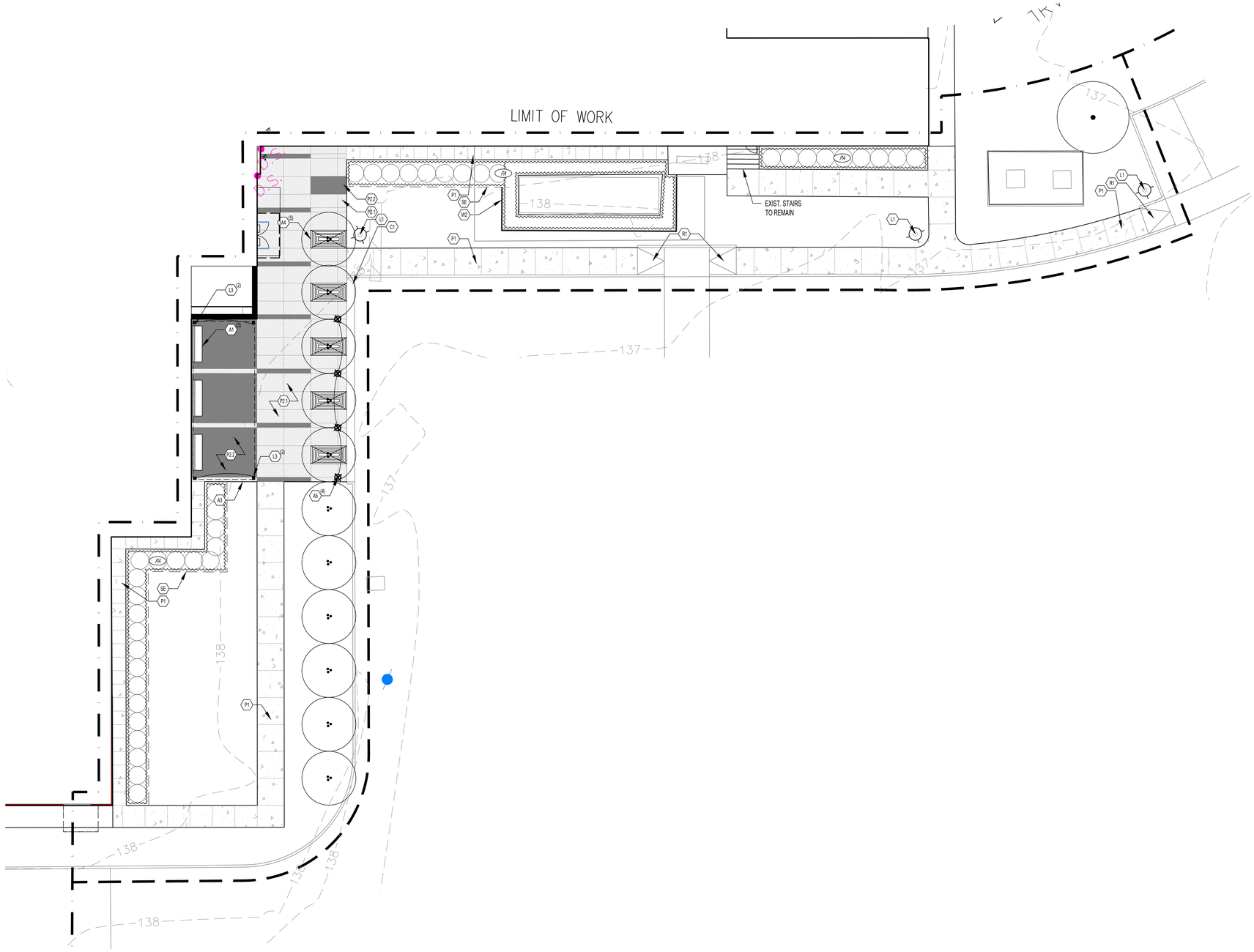
- SPECIALTY CONCRETE
- SPECIALTY CONCRETE
- TOOLED OR SAW CUT JOINT, REF. CALLOUT
- EXPANSION JOINT
- PLANTED AREA, REF. PLANTING PLAN



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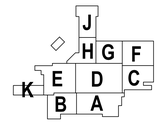
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

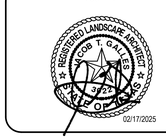
Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSALS



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE



02/17/2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSALS

BUILDING NUMBER

MATERIALS ENLARGEMENT

L2.03

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FOR BLUEBEAM LABELING/OCR:
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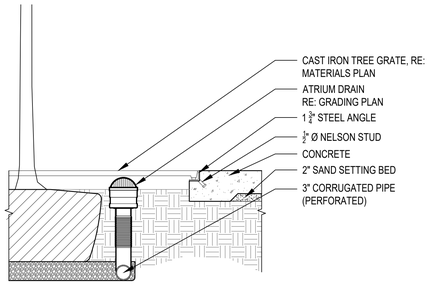
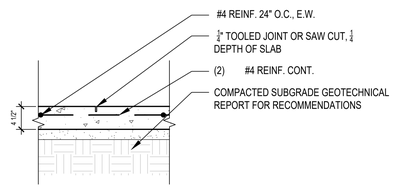
1"
ISSUE FOR PROPOSALS

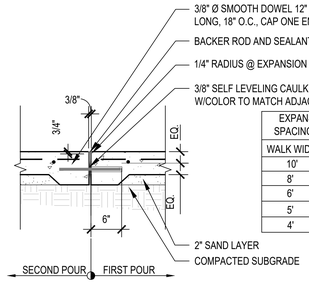


02 SECTION–TREE GRATE
1" = 1'–0"



CONTROL JOINT SPACING SCHEDULE	
WALK WIDTH SPACING	
10'	8' O.C.
8'	6' O.C.
5'	5' O.C.
4'	4' O.C.

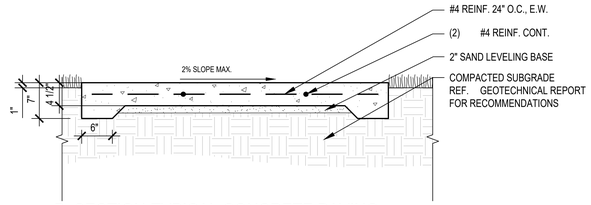
D. SECTION-TYPICAL CONTROL JOINT



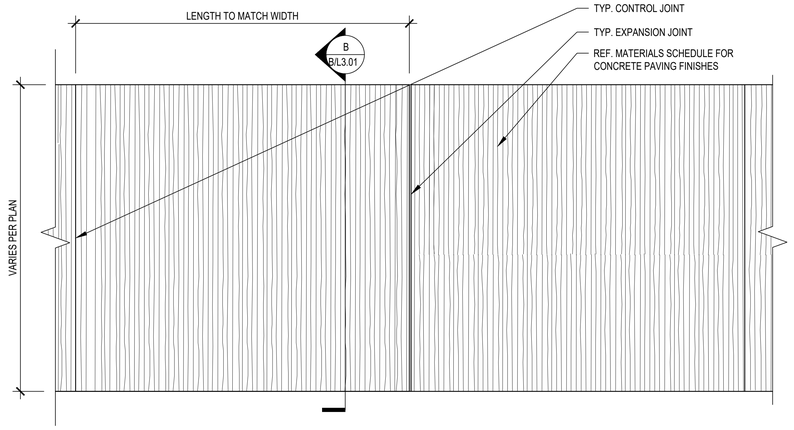
EXPANSION JOINT SPACING SCHEDULE	
WALK WIDTH SPACING	
10'	20 LF
8'	16 LF
6'	18 LF
5'	20 LF
4'	20 LF

NOTE:
1. AT EXISTING CONCRETE, CORE DRILL & EPOXY SET DOWEL.
2. FOR CURB EXPANSION JOINTS- SEALANT ALONG TOP & VERTICAL FACE OF EXPOSED EXPANSION MATERIAL.
3. CAULK TO MATCH ADJACENT CONCRETE WITH SANDED FINISH

C. SECTION-TYPICAL EXPANSION JOINT



B. SECTION-TYPICAL CONCRETE PAVING



01 TYPICAL PED. CONCRETE PAVING
1" = 1'–0"

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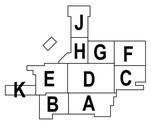

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSALS

BUILDING NUMBER

HARDSCAPE DETAILS

L3.01

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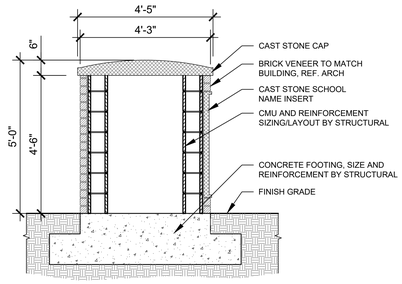
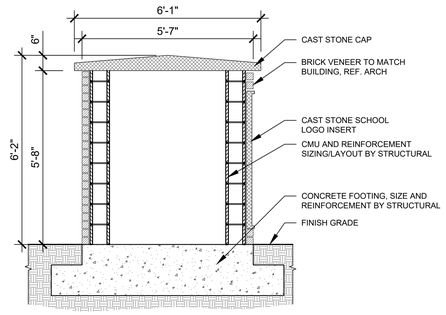
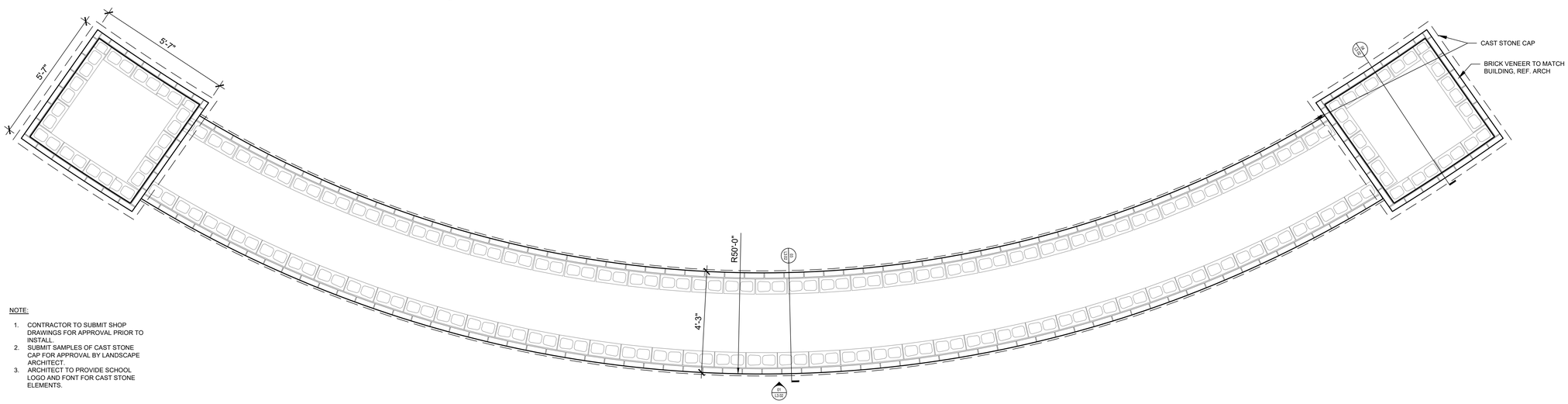


03 SECTION–MONUMENT SIGN
1/2" = 1'-0"



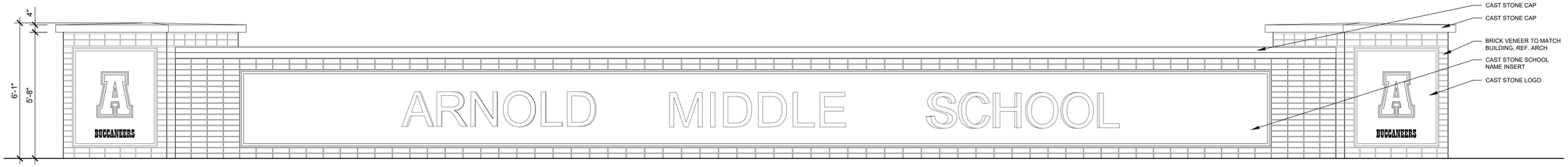
04 SECTION–ENTRY MONUMENT COLUMN
1/2" = 1'-0"



NOTE:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALL.
2. SUBMIT SAMPLES OF CAST STONE CAP FOR APPROVAL BY LANDSCAPE ARCHITECT.
3. ARCHITECT TO PROVIDE SCHOOL LOGO AND FONT FOR CAST STONE ELEMENTS.

02 PLAN–MONUMENT SIGN
1/2" = 1'-0"



01 ELEVATION–ENTRY MONUMENT
1/2" = 1'-0"

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CONSULTANT NAME
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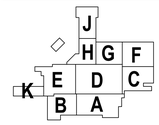

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSALS

BUILDING NUMBER

WALLS AND STAIRS

L3.02

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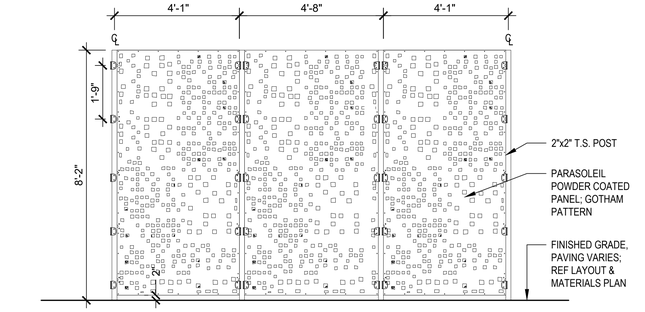
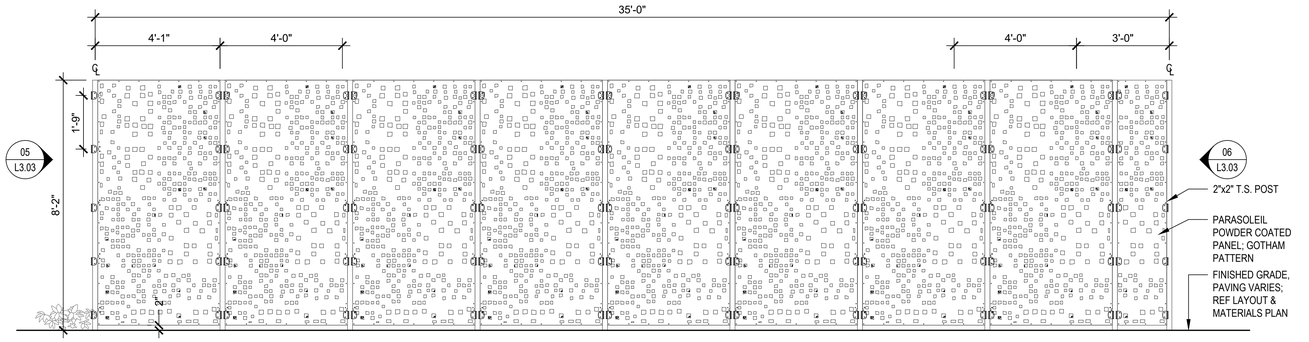
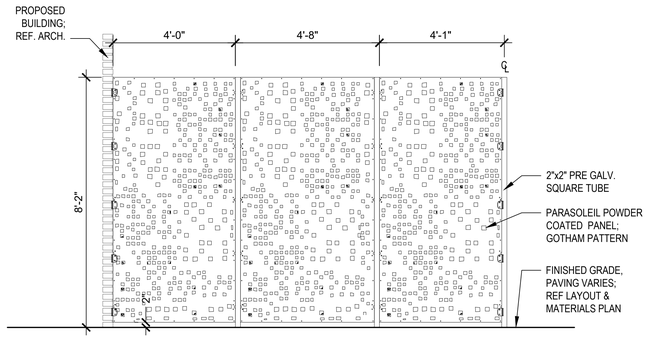


06 ELEVATION–UTILITY SCREEN WALL
1/2" = 1'-0"

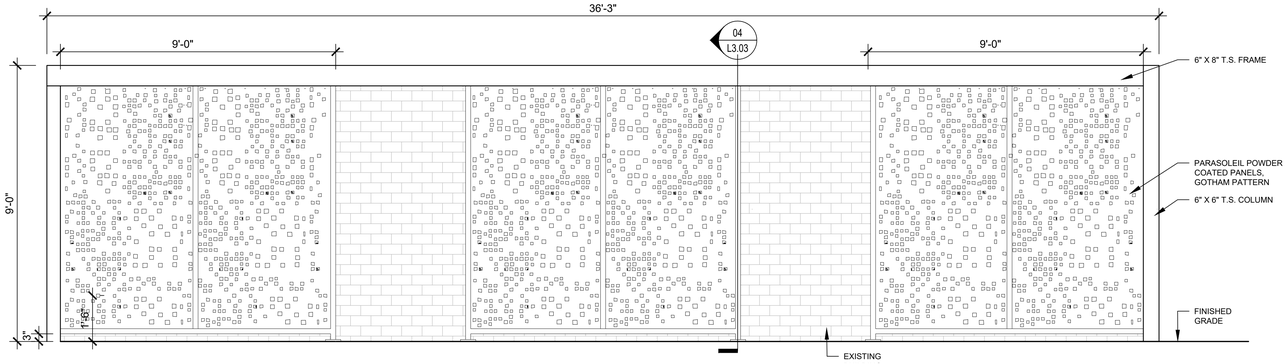
NOTES:
- RENFROW TO PROVIDE SIGNED & SEALED SHOP DRAWINGS FOR L.A. APPROVAL PRIOR TO INSTALL



03 ELEVATION–UTILITY SCREEN WALL
1/2" = 1'-0"

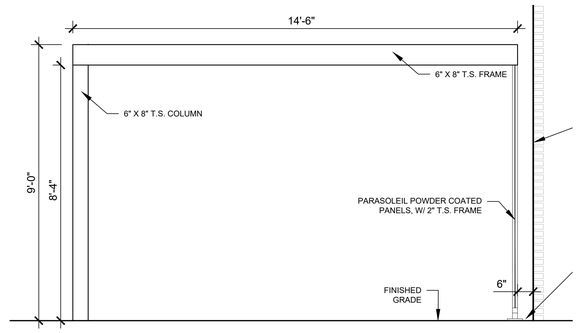


05 ELEVATION–UTILITY SCREEN WALL
1/2" = 1'-0"

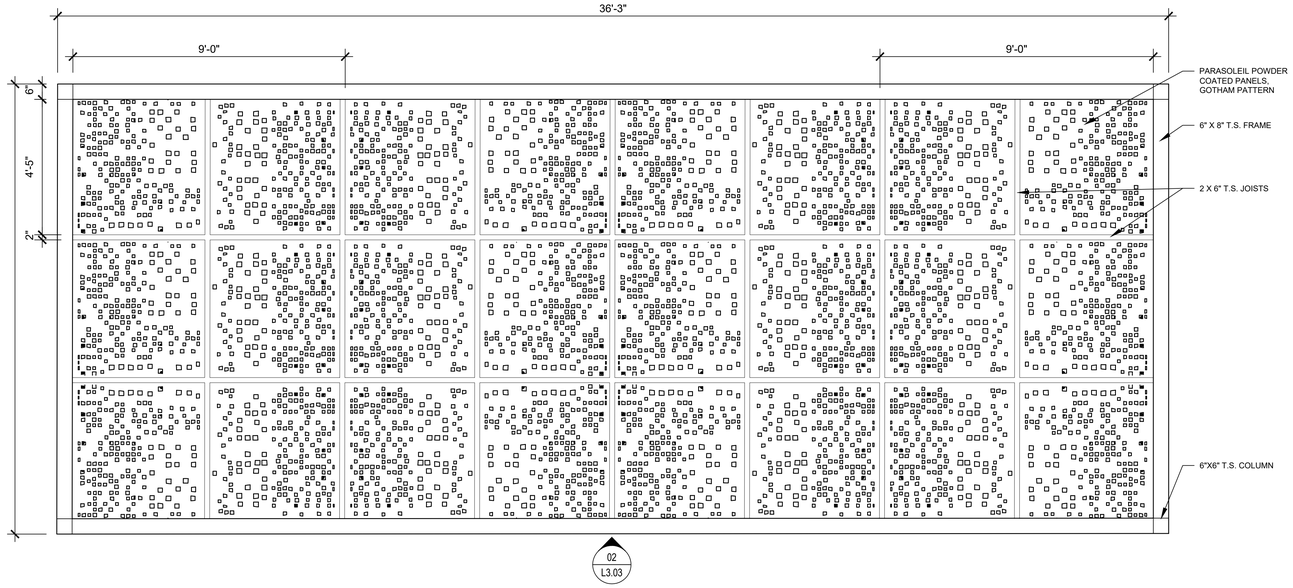


02 ELEVATION–SHADE STRUCTURE
1/2" = 1'-0"

NOTES:
- RENFROW TO PROVIDE SIGNED & SEALED SHOP DRAWINGS FOR L.A. APPROVAL PRIOR TO INSTALL
- PROVIDE ELECTRICITY INTERNALLY THROUGH COLUMNS, REF. MATERIALS PLAN



04 SECTION ELEVATION–SHADE STRUCTURE
1/2" = 1'-0"



01 PLAN–SHADE STRUCTURE
1/2" = 1'-0"

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CONSULTANT NAME
T: 000-000-0000

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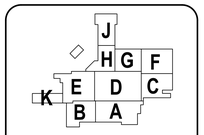

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSALS

BUILDING NUMBER

LANDSCAPE FEATURES

L3.03

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0"
1"

ISSUE FOR PROPOSALS

PLANTING NOTES:

1. PLANTING SOIL MIXTURE: REF. SPECIFICATIONS.
2. ALL ON SITE TOPSOIL FROM DESIGNATED STOCKPILE AREA OR BORROW SITE WILL BE TESTED TO COMPLY WITH CONFORMITY SHOWN IN SOIL PREPARATION SPECIFICATION
3. BIDDING CONTRACTORS BE ADVISED THAT ALL NEW TREE MATERIAL IS TO BE CONTAINER-GROWN CORRESPONDING TO STATED ROOT BALL SIZES AS RECOGNIZED BY INDUSTRY STANDARDS. THIS SHALL EXCLUDE ALL B&B, MACHINE MOVED, OR TRANSPLANTED TREES FROM THE BIDDING PROCESS UNLESS OTHERWISE INDICATED. THE INSTALLATION CONTRACTOR SHALL BE PREPARED TO PROVIDE PHOTOGRAPHS OF INTENDED PLANT MATERIAL ALONG WITH SIGNED CLARIFICATION THAT PLANT MATERIAL MEETS THESE REQUIREMENTS AND THAT NO VARIATIONS OR SUBSTITUTIONS HAVE BEEN MADE.
4. THE LANDSCAPE CONTRACTOR DOING THE INSTALLATION OF THIS WORK SHALL SUBMIT INFORMATION TO THE LA REGARDING THE SOURCING OF PLANT MATERIAL. ALL PLANT MATERIAL MUST BE APPROVED BY THE LA.
5. IF THE PLANTING PLAN DOES NOT AGREE WITH THE PLANT LIST, THE QUANTITIES INDICATED GRAPHICALLY ON THE PLANTING PLAN SHALL GOVERN.
6. IF IRRIGATION IS NOT PROVIDED TO PROPOSED TREES, AND DECLINED BY THE OWNER THE CONTRACTOR IS TO INSTALL: **TREE GATORS** REFERENCE SPECIFICATIONS.
7. CONTRACTOR TO PROVIDE ONSITE INVESTIGATION FOR ALL TREE PITS. SOIL CONDITIONS VARY FROM HEAVY CLAY TO SOLID BEDROCK. RESPONSIBILITY FOR ADDRESSING THESE CONDITIONS FALLS ON THE CONTRACTOR.
8. **PROVIDE $\frac{3}{16}$"X48" ORANGE DRIVEWAY MARKERS W/REFLECTORS 15' O.C. WHERE ALL NATIVE SEEDING MEETS MOWED LAWN CONDITION. CONFIRM ANY CONFLICTS WITH LANDSCAPE ARCHITECT.**

IRRIGATION NOTES:

1. REFERENCE IRRIGATION PLANS AND DETAILS. IF IRRIGATION PLANS ARE NOT PROVIDED THE CONTRACTOR IS TO PRODUCE SEALED IRRIGATION DRAWINGS USING THE BELOW GUIDELINES. IRRIGATION DRAWINGS TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
2. IRRIGATION DESIGNS ARE TO BE DESIGNED BY A LICENSED IRRIGATOR IN THE STATE IN WHICH THE PROJECT IS BEING CONSTRUCTED
3. VERIFY TAP LOCATION WITH CIVIL ENGINEER, CONFIRM LOCATION, SIZE AND METHOD
4. VERIFY STATIC PRESSURE OF WATER SOURCE AT POINT OF CONNECTION PRIOR TO DESIGN AND INSTALLATION
5. HEAD TO HEAD COVERAGE OR BETTER; DO NOT EXCEED MANUFACTURER'S PUBLISHED RADIUS OF THROW.
6. MAINLINE AND SECTION PIPE TO BE SCHEDULE 40
7. ALL PIPE UNDER PAVEMENT SHALL BE IN SLEEVES
8. PREFERRED EQUIPMENT:
   - 8.1. CLIENT, CITY AND DISTRICT STANDARDS SUPERCEDE ANY OF THE FOLLOWING NOTES.
   - 8.2. SPRAY HEAD:RAINBIRD, 180X SERIES; POP-UP HEIGHT APPROPRIATE FOR PLANT MATERIAL AT TIME OF PLANTING
   - 8.3. NOZZLES: RAINBIRD MPR
   - 8.4. ROTOR HEADS: RAINBIRD 500 SERIES
   - 8.5. INCLUDE SWING JOINTS ON ALL SPRAY POP UPS AND ROTORS
   - 8.6. REMOTE CONTROL VALVE: PEB SERIES BRASS.
   - 8.7. BALL VALVE: LASCO UNION TYPE BALL VALVE SAME SIZE AS CONTROL VALVE
   - 8.8. TREE BUBBLERS: GPH AND EMITTER SPACING APPROPRIATE FOR SOIL CONDITIONS, PROVIDE DETAIL
   - 8.9. QUCK COUPLERS: RAINBIRD 33DRC- $\frac{3}{4}$" DIAMETER OUTLET
   - 8.10. VALVE BOXES: RAIN BIRD VB SERIES 12x18 MIN. FOR 1-$\frac{1}{2}$" VALVE OR SMALLER, JUMBO 17x30 FOR 2" VALVE AND LARGER; ALLOW 24" BETWEEN VALVE BOXES. ALIGN SQUARE TO ADJACENT PAVING
   - 8.11. CONTROLLER: RAINBIRD ESP-LXME2/PRO WITH LXMSS CABINET AND PEDESTAL; VERIFY ON PLAN WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

SITE/LANDSCAPE SLEEVING NOTES:

1. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL OTHER CONSULTANTS AND SUB-CONTRACTOR SLEEVING REQUIREMENTS AND PLACE SUCH SLEEVES PRIOR TO HARDSCAPE INSTALLATION.

PLANTING SCHEDULE

	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	REMARKS/COMMENTS
TREES						
	LI	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	65 GALLON	14'-16'(FT)	3 STEM MULTI-TRUNK, 5' CLEAR TRUNK
	OE	CORDIA BOISSIERI	MEXICAN OLIVE	45 GALLON	10'(FT)	FULL, WELL BRANCHED. BACKFILL TREE PIT WITH WELL DRAINED SOIL
	QV	QUERCUS VIRGINIANA	LIVE OAK	65 GALLON	14'-16'(FT)	FULL, WELL BRANCHED
	QP	QUERCUS POLYMORPHA	MEXICAN WHITE OAK	45 GALLON	14'-16'(FT)	FULL, WELL BRANCHED
	UP	ULMUS PARVIFOLIA	LACEBARK ELM	65 GALLON	14'-16'(FT)	FULL, WELL BRANCHED
SHRUBS						
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS/COMMENTS
	IV	ILEX VOMITORIA "STOKES DWARF"	DWARF YAUPON HOLLY	7 GALLON	30" O.C.	FULL PLANTS, ROOTED TO CONTAINER
	MC	MYRICA PUSILLA	DWARF WAX MYRTLE	7 GALLON	42" O.C.	FULL PLANTS, ROOTED TO CONTAINER
GROUNDCOVERS						
SYMBOL	ABBREVIATION	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS/COMMENTS
	FT	FICUS TIKOUA	SANDI LEAF FIG IVY	1 GALLON	12" O.C.	FULL PLANTS, ROOTED TO CONTAINER
	LA	LANTANA X 'NEW GOLD'	NEW GOLD LANTANA	1 GALLON	18" O.C.	FULL PLANTS, ROOTED TO CONTAINER
	LM	LIRIOPE MUSCARI 'TIDWELL'S BIG BLUE'	LILY TURF	1 GALLON	12" O.C.	FULL PLANTS, ROOTED TO CONTAINER
TURF						
SYMBOL	**ABBREVIATION**	**BOTANICAL NAME**	**COMMON NAME**		**DENSITY**	**REMARKS/COMMENTS**
	SOD	CYNODON DACTYLON 'TIFF TUFF'	BERMUDA 'TIFF TUFF' TURF			SOLID SOD, STAGGERED
	SEED	BERMUDA	HYDROSEED BERMUDA			-HYDROSEED -INSTALL 2 COURSES OF SOLID SOD AT ALL EDGES

PLANT SIZING CHART

SHADE AND ORNAMENTAL SINGLE TRUNK TREES			
CONT. SIZE	CALIPER (DBH)	HEIGHT	SPREAD
10 GALLON	$\frac{3}{4}$"	6'MIN	3'-4'
15 GALLON	1"	8'-10'	4'-5'
30 GALLON	1-$\frac{1}{4}$" TO 2"	12'-14'	4'-5'
45 GALLON	2" TO 3"	14'-16'	5'-7'
65 GALLON	3" TO 3-$\frac{1}{2}$"	16'-18'	6'-8'
100 GALLON	3-$\frac{1}{2}$" TO 4"	18'-20'	8'-12'
PALMS			
CONT. SIZE	HEIGHT	BARE TRUNK	
10 GALLON	3'-4'		
15 GALLON	4'	1'	
30 GALLON	5' TO 6'	3'	
45 GALLON	6'-8'	4'	
65 GALLON	8'-10'	6'	
MULTI-TRUNK TREES			
CONT. SIZE	HEIGHT	SPREAD	
5 GALLON	4'	24"-36"	
7 GALLON	5'-6'	36"-48"	
10 GALLON	6'-7'	42"-60"	
15 GALLON	7'-8'	60"MIN	
45 GALLON	10'-12'	60"MIN	
65 GALLON	12'-16'	72"MIN	
100 GALLON	14'-18'	80"MIN	

DECIDUOUS SHRUBS			
CONT. SIZE	MIN. NUMBER OF CANES	HEIGHT	SPREAD
1 GALLON	3	6"MIN	6"MIN
3 GALLON	4	14"MIN	10"
5 GALLON	4	30"MIN	24"
7 GALLON	5	40"MIN	30"
10 GALLON	5	48"MIN	36"
15 GALLON	6	60"-72"	48"MIN
30 GALLON	8	96"MIN	48"-60"
BROADLEAF EVERGREEN SHRUBS			
CONT. SIZE	HEIGHT	SPREAD	
1 GALLON	6"-9"	6"MIN	
3 GALLON	14"MIN	10"	
5 GALLON	30"MIN	24"	
7 GALLON	40"MIN	24-30"	
10 GALLON	48"-60"	40"MIN	
15 GALLON	60"-72"	48"MIN	
30 GALLON	72"-84"	48"-60"	

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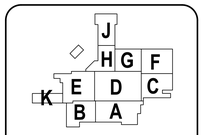
STRUCTURAL
KUBALA ENGINEERS
T-713-840-3343
MEP
LEAP
T-713-560-3309
ACOUSTIC
ACENTECH
T-512-476-3464
FOOD SERVICE
FSD
T-281-350-2323
POOL/AQUATICS
CONSULTANT NAME
T-000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSALS



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date
	ISSUE FOR PROPOSALS	

BUILDING NUMBER

PLANTING NOTES AND SCHEDULE

L4.00

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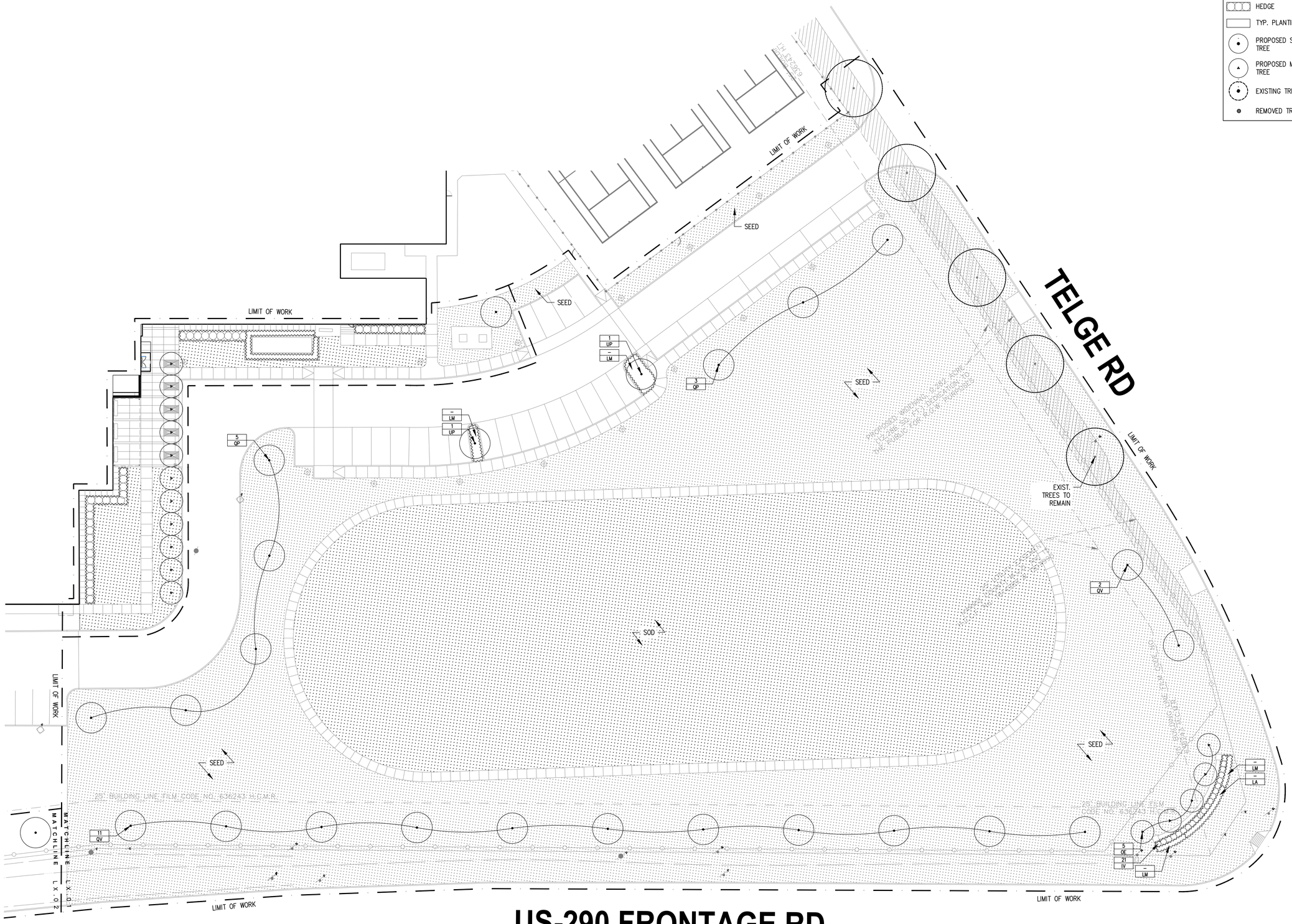
0"
1"

ISSUE FOR PROPOSALS



MATERIALS LEGEND

- SOD
- HYDROSEED LAWN
- HEDGE
- TYP. PLANTING AREA
- PROPOSED SINGLE TRUNK TREE
- PROPOSED MULTI-TRUNK TREE
- EXISTING TREE
- REMOVED TREE

0 10' 20'
1" = 20'

PBK

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713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
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EDGELAND GROUP
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STRUCTURAL
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MEP
LEAP
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ACOUSTIC
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FOOD SERVICE
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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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CYPRESS, TX 77429
ISSUE FOR PROPOSALS

KEY PLAN
J H G F K E D C B A
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED LANDSCAPE ARCHITECT
JOSEPH T. GALLES
3726
STATE OF TEXAS
02/17/2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date
	ISSUE FOR PROPOSALS	

BUILDING NUMBER

PLANTING PLAN

L4.01

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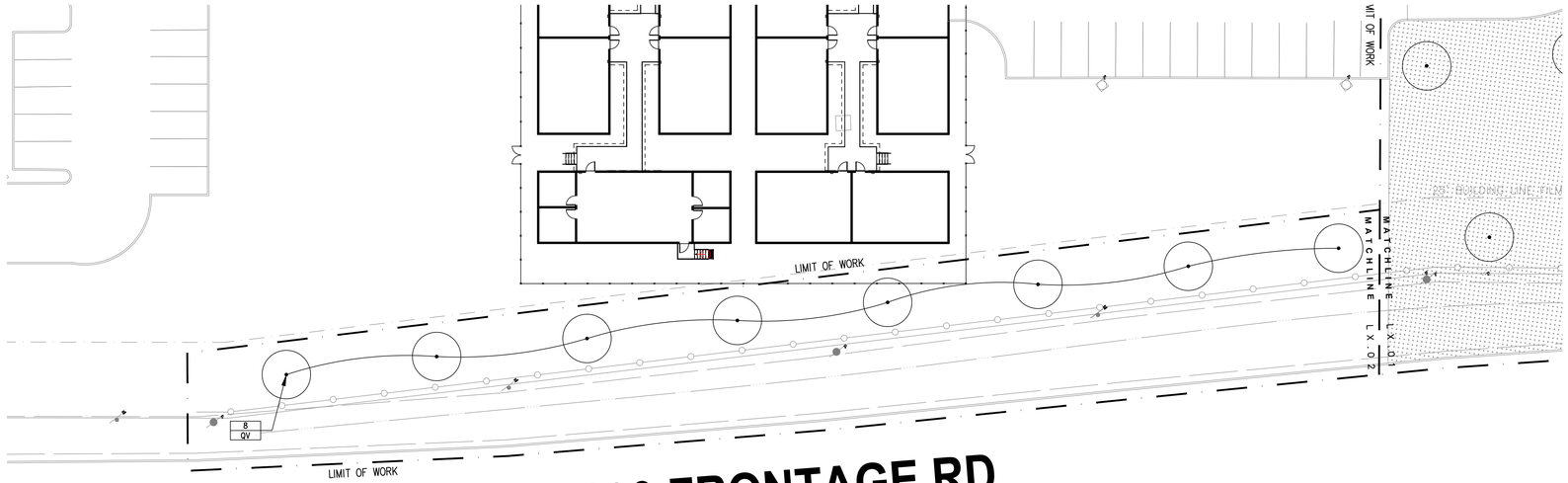
ISSUE FOR PROPOSALS



US-290 FRONTAGE RD.

0 10' 20'
1" = 20'

MATERIALS LEGEND

- SOD
- HYDROSEED LAWN
- HEDGE
- TYP. PLANTING AREA
- PROPOSED SINGLE TRUNK TREE
- PROPOSED MULTI-TRUNK TREE
- EXISTING TREE
- REMOVED TREE

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ACOUSTIC
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FOOD SERVICE
FSD
T 281.350.2323
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
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ISSUE FOR PROPOSALS

J H G F
K E D C
B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED LANDSCAPE ARCHITECT
CHRISTOPHER T. GALLES
3625
STATE OF TEXAS
02/17/2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSALS

BUILDING NUMBER

PLANTING PLAN

L4.02

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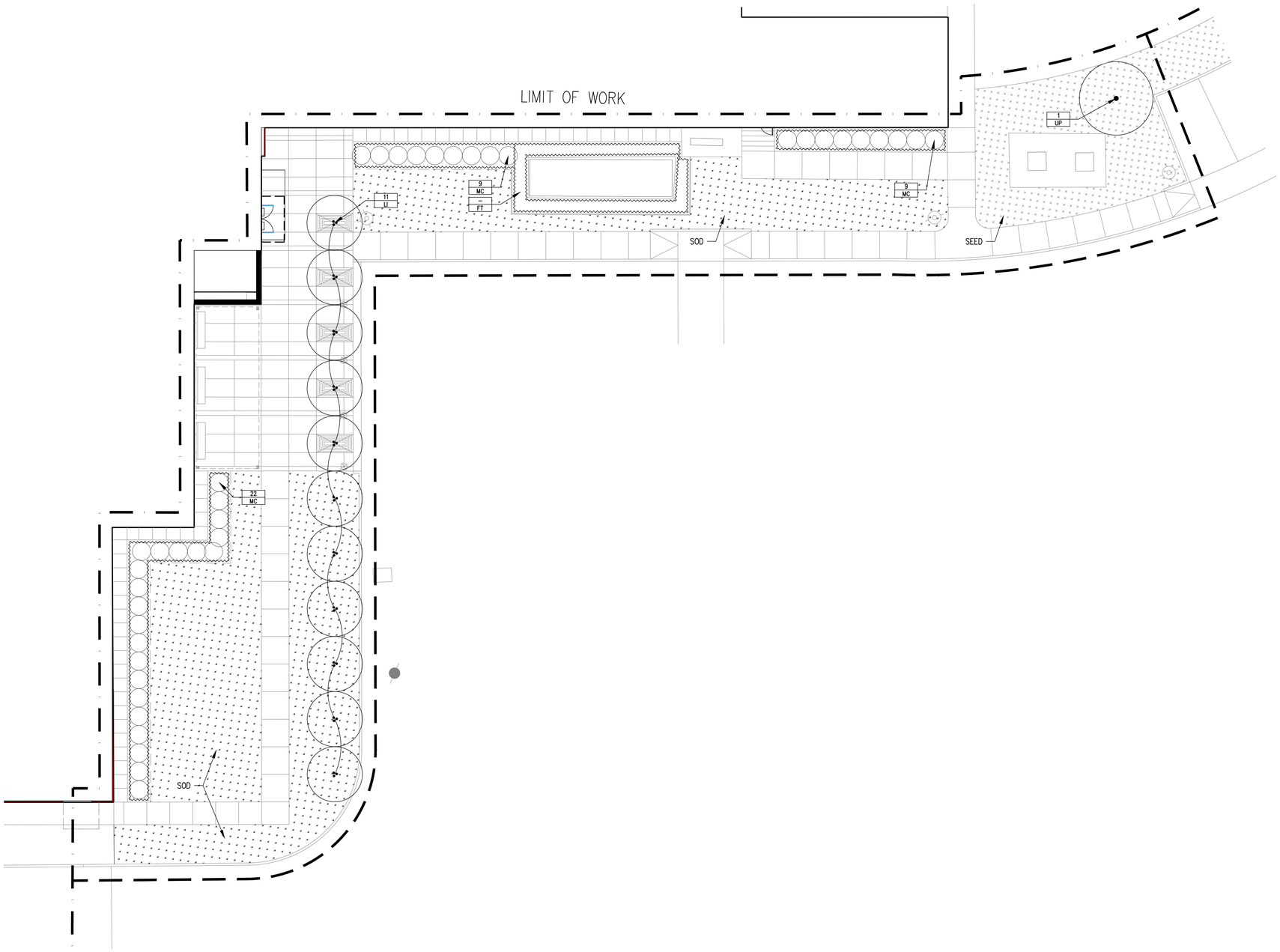
ISSUE FOR PROPOSALS

0"
1"

MATERIALS LEGEND

- SOD
- HYDROSEED LAWN
- HEDGE
- TYP. PLANTING AREA
- PROPOSED SINGLE TRUNK TREE
- PROPOSED MULTI-TRUNK TREE
- EXISTING TREE
- REMOVED TREE



0 5' 10'
1" = 10'

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MEP
LEAP
T 713.940.3309
ACOUSTIC
TBD
T 512.476.3654
FOOD SERVICE
TBD
T 281.350.2323
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TELGE RD.
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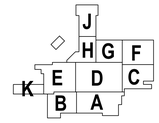
ISSUE FOR PROPOSALS

KEY PLAN



NORTH: PLAN TRUE

DISCIPLINE

02/17/2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSALS

BUILDING NUMBER

PLANTING ENLARGEMENT

L4.03

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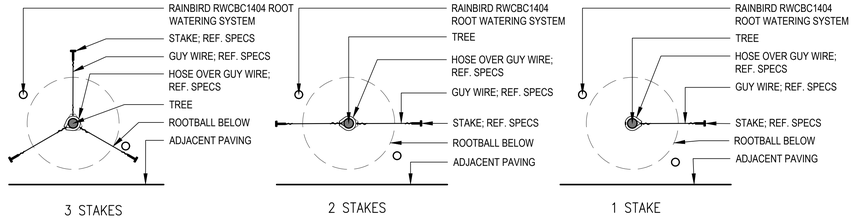
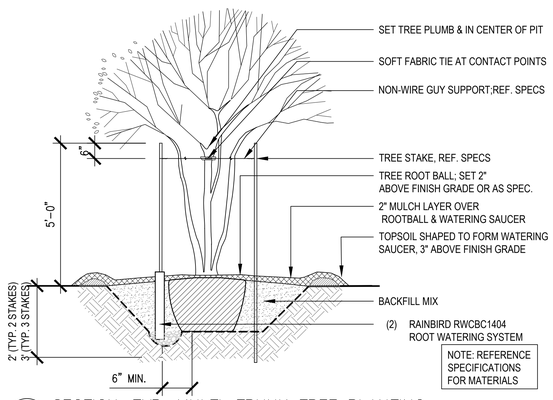
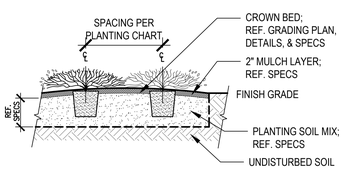


03 PLAN–TYP. TREE STAKING
3/4"=1'–0"



02 SECTION–TYP. MULTI–TRUNK TREE PLANTING
1/2"=1'–0"



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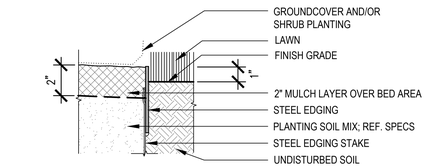
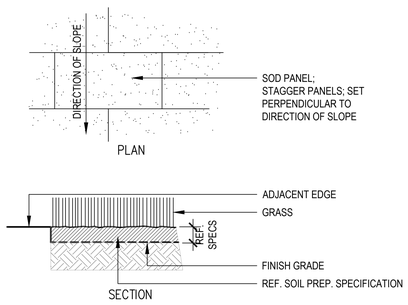
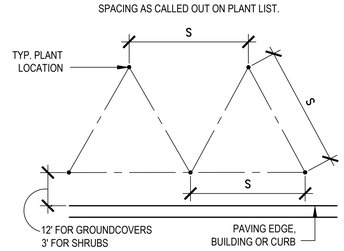
1/2"=1'–0"



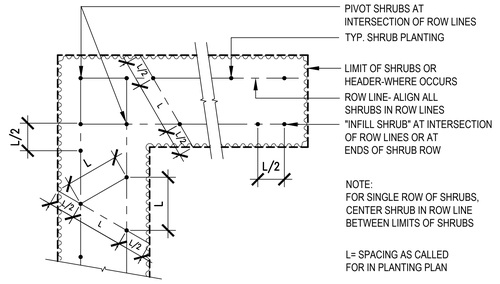
07 SECTION–METAL BED EDGE
3"=1'–0"



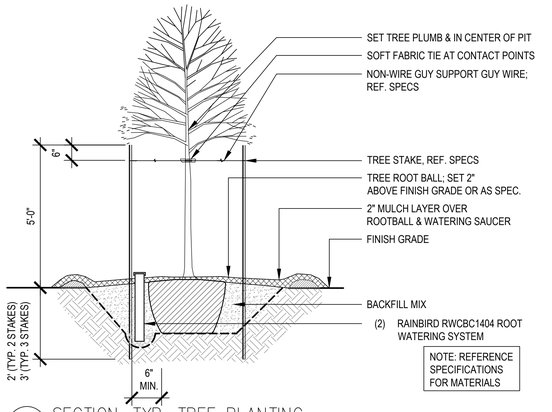
06 SECTION–TYP. SOD PLANTING
1/2"=1'–0"



SPACING	PLANTS / SF
6" O.C.	4.61
8" O.C.	2.60
9" O.C.	1.78
10" O.C.	1.66
12" O.C.	1.15
15" O.C.	.738
18" O.C.	.50
24" O.C.	.28
30" O.C.	.18
36" O.C.	.12
48" O.C.	.07
60" O.C.	.04
72" O.C.	.03



04 SECTION–PLANT SPACING
3"=1'–0"



01 SECTION–TYP. TREE PLANTING
1/2"=1'–0"

PBK
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EDGELAND GROUP
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KUBALA ENGINEERS
T 713-940-3343
MEP
LEAP
T 713-940-3309
ACOUSTIC
AVI
T 512-476-3464
FOOD SERVICE
FSI
T 281-350-2323
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSALS

KEY PLAN NORTH: PLAN TRUE

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSALS

BUILDING NUMBER

PLANTING DETAILS

L4.04

File Path: Z:\Edgeland\P_Project Drive\TEXAS\24_TX-Arnold MS-220023\4 Construction Documents
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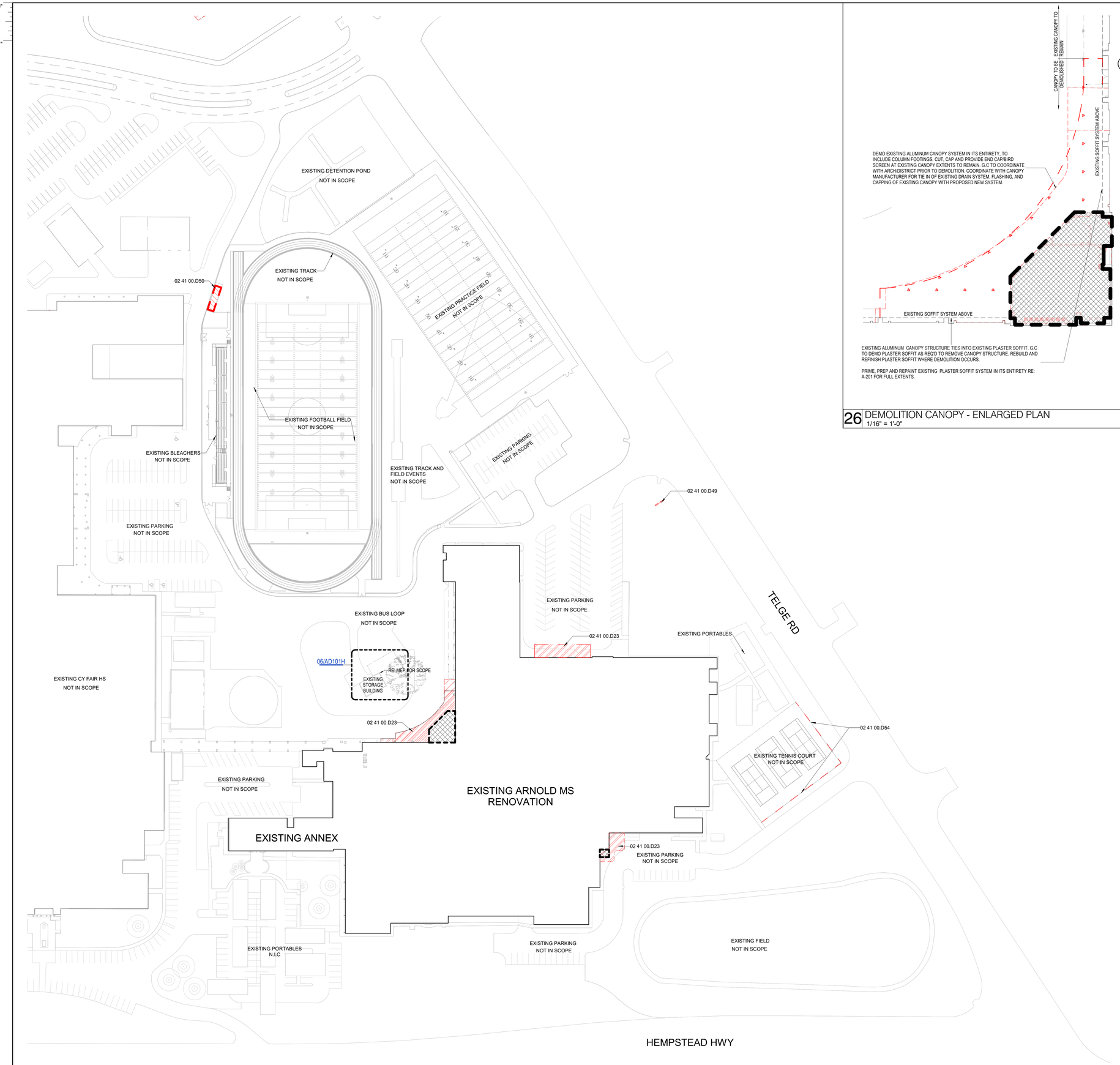
0"
1"

ARCHITECTURAL SITE PLAN
ASD101
FOR BLUEBEAM LABELING:

ISSUE FOR PROPOSAL



26 DEMOLITION CANOPY - ENLARGED PLAN
1/16" = 1'-0"

GENERAL SITE DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATE INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS. SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.

SITE DEMOLITION PLAN LEGEND

- DEMO CHAINLINK FENCE
- DEMO EXISTING PAVING AND GRASS
- DEMO ORNAMENTAL FENCE
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D23	DEMO PAVING, SIDEWALKS, AND CURBS. RE: CIVIL
02 41 00.D49	DEMOLISH EXISTING MARQUEE SIGN AND ASSOCIATED UTILITIES IN ITS ENTIRETY.
02 41 00.D50	RELOCATE EXISTING CONEX PRIOR TO COMMENCING NEW CONSTRUCTION. CAP AND ABANDON EXISTING UTILITIES. COORDINATE TEMP LOCATION WITH CAMPUS. ONCE NEW STORAGE BUILDING IS COMPLETE CONTRACTOR TO DEMOLISH EXISTING CONEX.
02 41 00.D54	DEMOLISH EXISTING WINDSCREEN AT TENNIS COURTS AND PREP FOR NEW.

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LANDSCAPE
EDDELAND GROUP
T 713-862-1666
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEP/T
LEAP
T 713-840-3300
ACOUSTIC
ACOUSTX
T 512-476-3454
FOOD SERVICE
RDG
T 281-256-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
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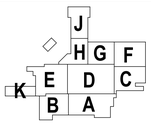
CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ARCHITECTURAL SITE PLAN

ASD101

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Checker
DRAWN BY:
Author
Plot Stamp:
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ARCHITECTURAL SITE PLAN
AS101
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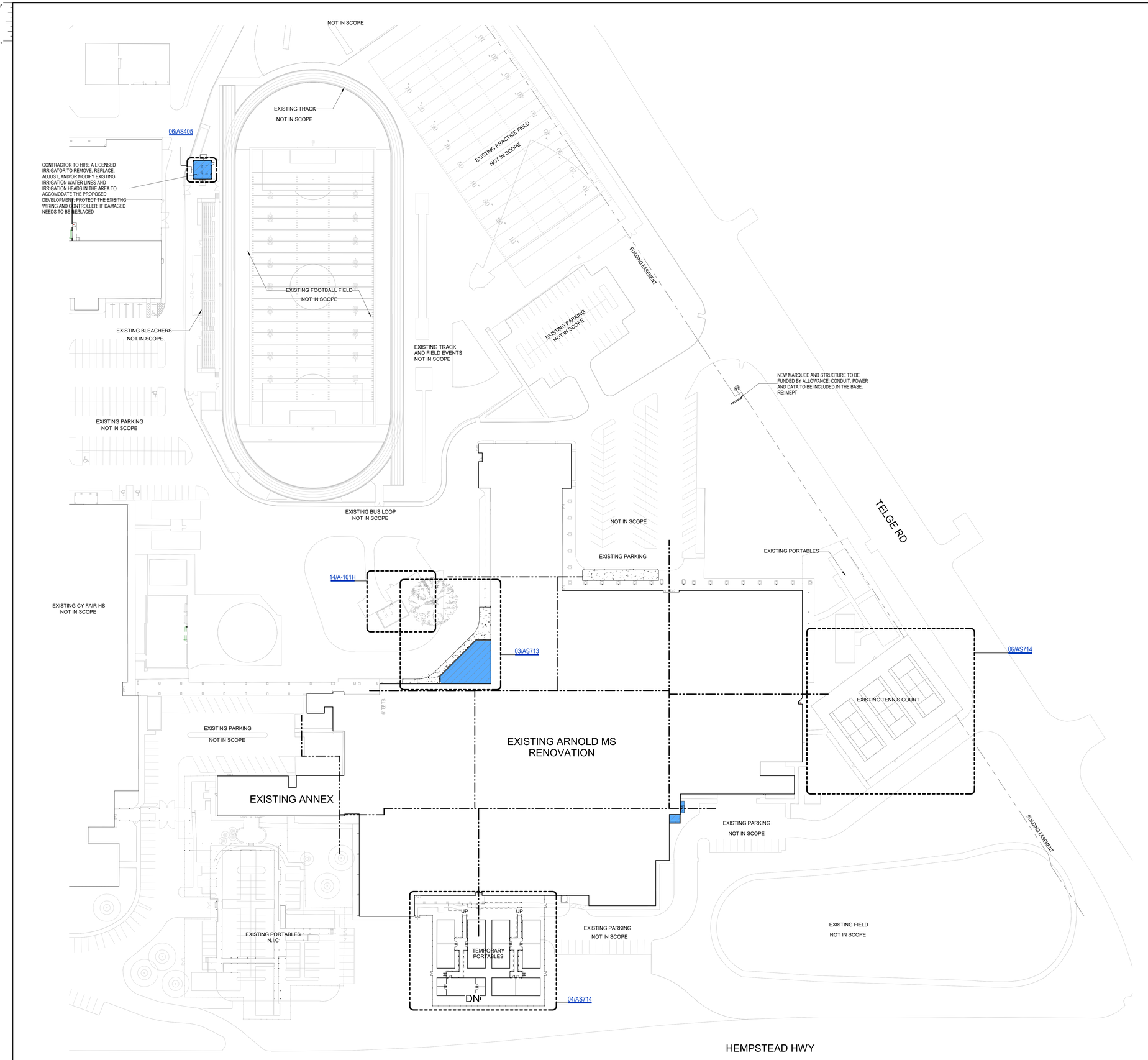
0"
1"



ARCH SITE PLAN LEGEND

- EXISTING BUILDING
- PROPOSED TREE RE: LANDSCAPE
- NOT IN SCOPE
- LIGHT POLE
- NEW ADDITION
- PROPERTY LINE
- GRASS RE: CIVIL/LANDSCAPE
- HYDRO MULCH RE: CIVIL/LANDSCAPE
- CONCRETE
- CHAIN LINK FENCE
- ORNAMENTAL FENCE

GENERAL ARCH SITE PLAN NOTES

1. REFER TO CIVIL DOCUMENTS
2. COORD. ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL DOCUMENTS
3. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1 % MINIMUM, 2 % MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO, SIDEWALKS, PATIOS, STAIRS, PAVING. U.N.O.
4. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5 % FOR A HORIZ. DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O
5. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS
6. VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCH. PRIOR TO POURING OF CONCRETE
7. PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
8. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
9. VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCH. PRIOR TO INSTALLATION OF SITE SIGNAGE

KEYNOTE LEGEND

NUMBER	DESCRIPTION

PBK

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T 713-840-7343
MEPT
LEAF
T 713-540-3300
ACOUSTIC
T 512-476-3654
FOOD SERVICE
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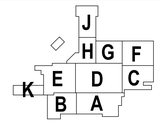
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ARCHITECTURAL SITE PLAN

AS101

06 ARCHITECTURAL SITE PLAN - OVERALL
1" = 50'-0"

ISSUE FOR PROPOSAL

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

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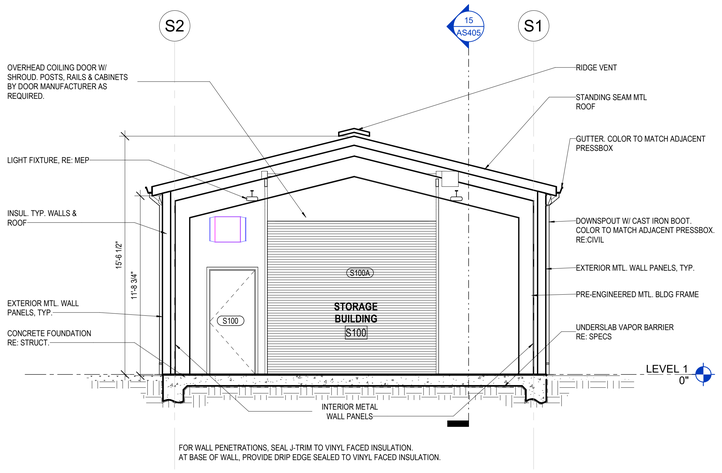
0"
1"

STORAGE BLD PLANS & SECTIONS
AS405
FOR BLUEBEAM LABELING:

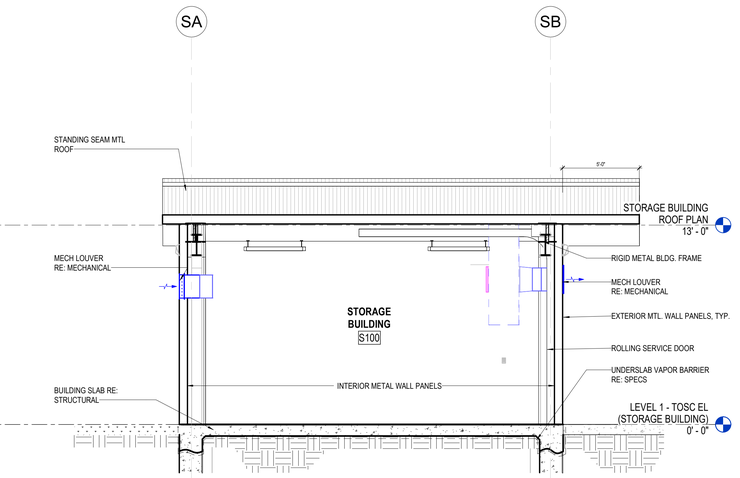
ISSUE FOR PROPOSAL

DOOR SCHEDULE - STORAGE BUILDING

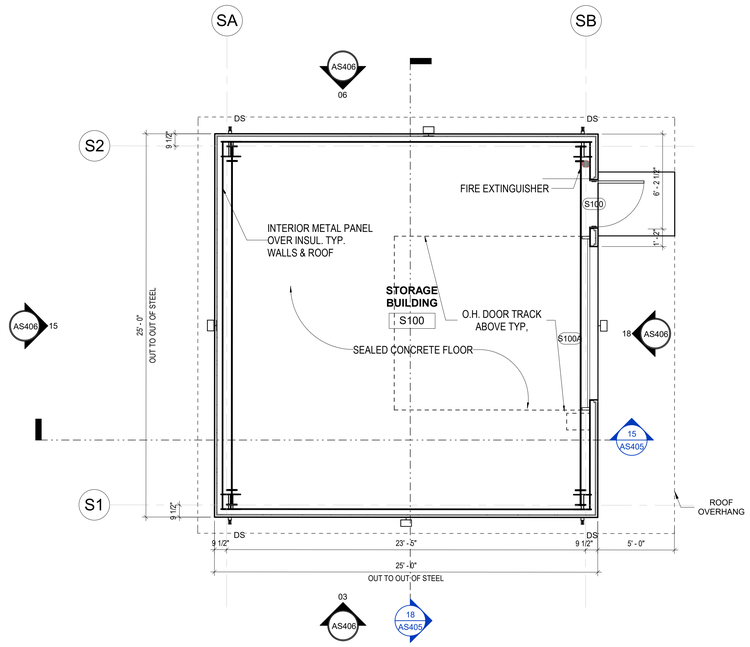
DOOR			PANEL						FRAME				GENERAL					
													DETAIL					
MARK	WIDTH	HEIGHT	WIDTH: A / B	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	GLASS TYPE	JAMB	HEAD	SILL	FIRE RATING	STC	HARDWARE SET	REMARKS
S100	3'-0"	6'-10"	3'-0"	F	1 3/4"	HM	HM	NONE	001	HM	<By Category >	NONE							
S100A	10'-0"	10'-0"	11'-0"	OHC- PS	1 3/4"	AL-	AL-	NONE	00HS	HM	HM								MANUAL O.H. SERVICE DOOR (Non-Insulated)



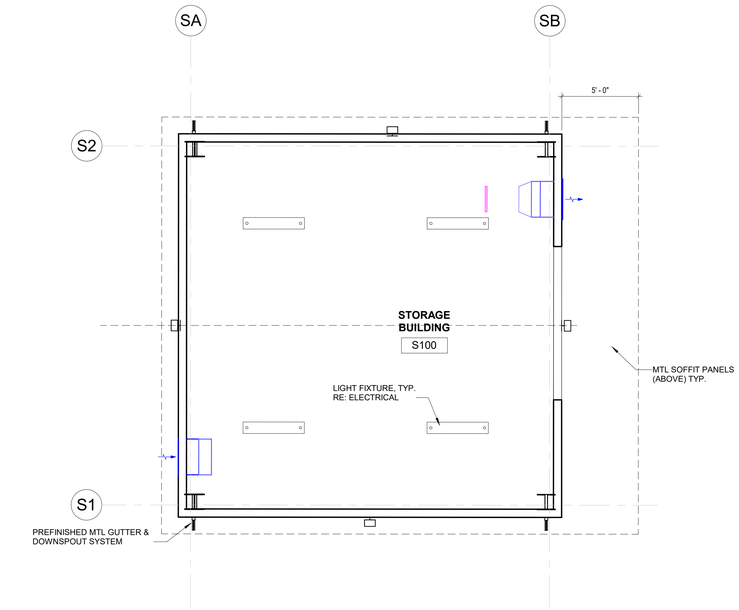
18 SECTION 1 @ STORAGE BLD
1/4" = 1'-0"



15 SECTION 2 @ STORAGE BLD
1/4" = 1'-0"



06 STORAGE BUILDING
1/4" = 1'-0"



03 STORAGE BLD - RCP
1/4" = 1'-0"

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PBK.com

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KUBENKA ENGINEERS
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CONSULTANT NAME
T 000-000-0000

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CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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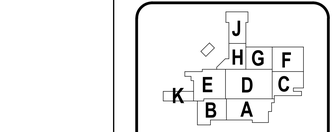
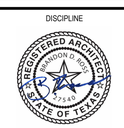


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE



01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

STORAGE BLD PLANS & SECTIONS

AS405

ISSUE FOR PROPOSAL

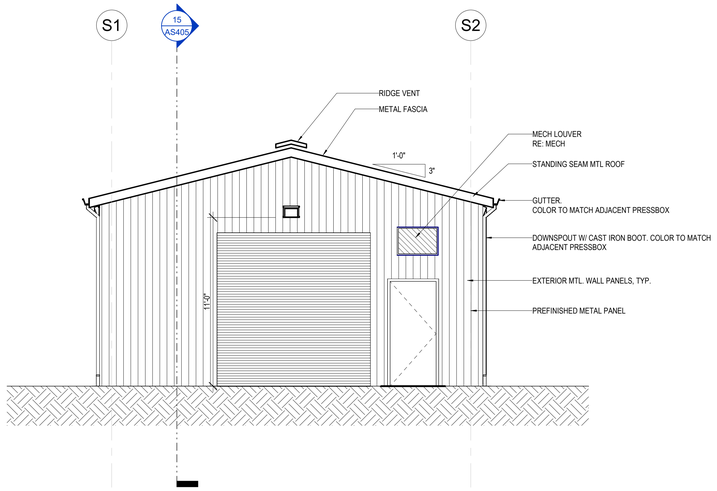
STORAGE BLD ELEVATIONS

AS406

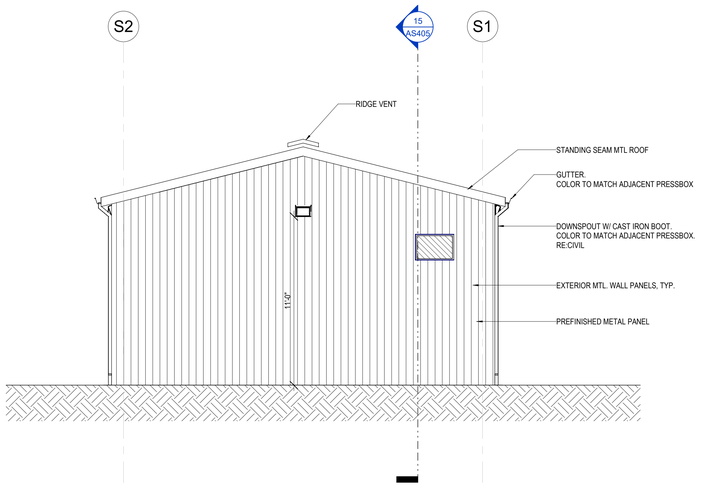
FOR BLUEBEAM LABELING/OCR:

0"

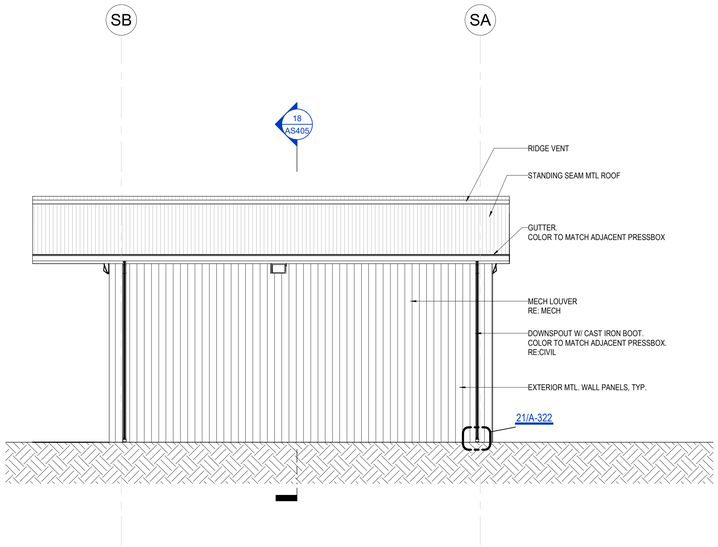
1"



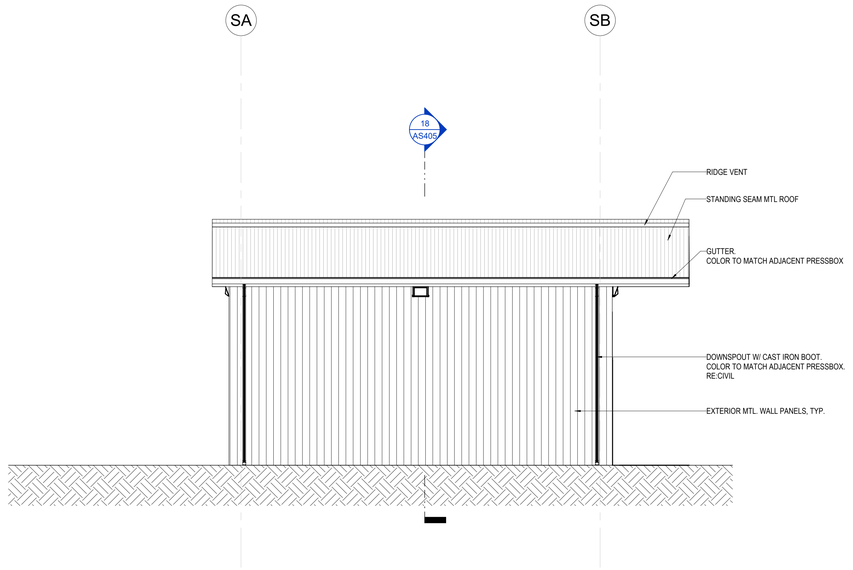
18 WEST ELEVATION - STORAGE BUILDING
1/4" = 1'-0"



15 EAST ELEVATION - STORAGE BUILDING
1/4" = 1'-0"



06 NORTH ELEVATION - STORAGE BUILDING
1/4" = 1'-0"



03 SOUTH ELEVATION - STORAGE BUILDING
1/4" = 1'-0"

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STRUCTURAL
KIRBY-SMITH-MORRIS
T-713-942-7343
MEP/T
LEAP
T-713-540-3300
ACOUSTIC
RSH
T-512-476-3654
FOOD SERVICE
SSD
T-281-556-2223
POOL/AQUATICS
CONSULTANT NAME
T-000-000-0000

Arnold Middle School

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CYPRESS FAIRBANKS
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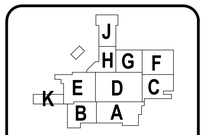


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

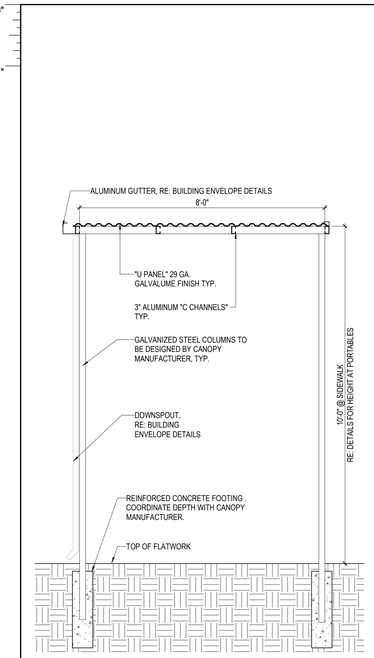
BUILDING NUMBER

STORAGE BLD ELEVATIONS

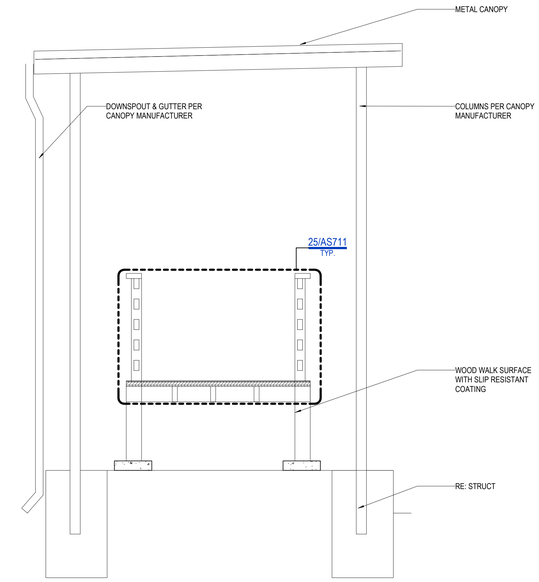
AS406

SITE DETAILS
AS711
FOR BLUEBEAM LABELING/OCR:

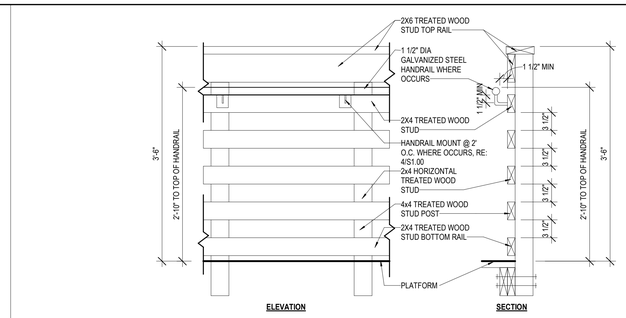
ISSUE FOR PROPOSAL



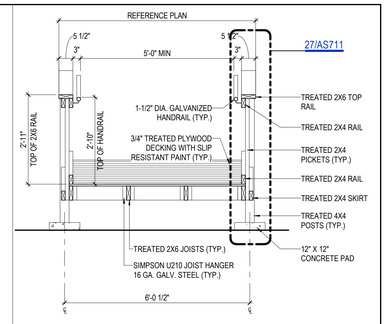
24 CANOPY - TYP PORTABLE CANOPY
1/2" = 1'-0"



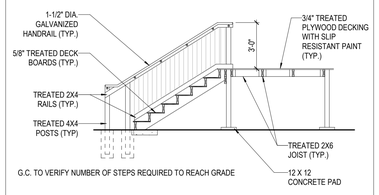
23 TYP CANOPY PORTABLE SECTION @ WALK
1/2" = 1'-0"



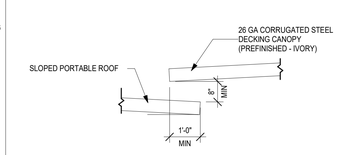
27 PORTABLE WOOD GUARDRAIL & HANDRAIL
1" = 1'-0"



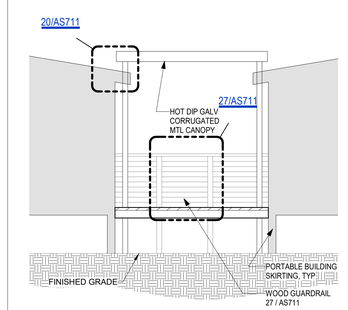
25 PORTABLES RAMP - SECTION 1
1/2" = 1'-0"



21 STAIR - TYP PORTABLE
1/4" = 1'-0"



20 METAL CANOPY @ ROOF DETAIL
1/2" = 1'-0"



19 TYP PORTABLE BUILDING SECTION
1/4" = 1'-0"

18 PORTABLES RAMP - SECTION 2
1/4" = 1'-0"

16 METAL CANOPY @ PORTABLE
1/2" = 1'-0"

15 METAL CANOPY @ MTL CANOPY
1/2" = 1'-0"

14 THRESHOLD @ PORTABLE RAMP
3/4" = 1'-0"

13 FIXED STEEL BOLLARD
1/2" = 1'-0"

12 BOLLARD - REMOVABLE
1/2" = 1'-0"

10 ACCESSIBLE CURB RAMP SECTION
1" = 1'-0"

09 ACCESSIBILITY CURB RAMP
1/4" = 1'-0"

08 ACCESSIBLE RAMP PLAN
1/4" = 1'-0"

07 PARKING BUMPER
1" = 1'-0"

06 WALK AT EDGE OF BUILDING
1" = 1'-0"

05 WALK AT EDGE OF BUILDING - MOW STRIP
1" = 1'-0"

04 POURED CURB AT SIDEWALK
1" = 1'-0"

03 CONCRETE WALK EJ
1" = 1'-0"

02 CONCRETE WALK CJ
1" = 1'-0"

01 CONCRETE WALK EDGE
1" = 1'-0"

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ARCHITECT
PBK Architects, Inc.
HOUSTON
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11 Greenway Plaza, 22nd Floor
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ACOUSTIC
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CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
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CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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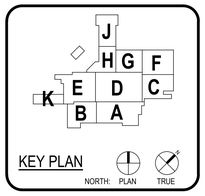
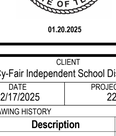


DISCIPLINE



01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

SITE DETAILS

AS711

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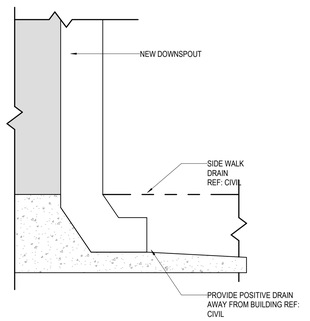
SITE DETAILS
AS712
FOR BLUEBEAM LABELING/OCR:

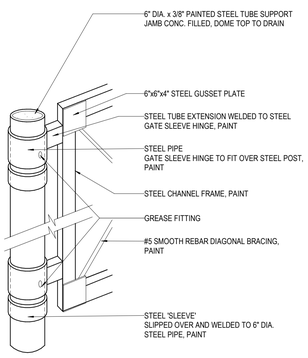
0"
1"

NOTE:
1. POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. POST SIZES PER FENCE MANUFACTURER
2. REFER TO GATE SCHEDULE FOR GATES TO RECEIVE CARD READERS.

08 CHAIN LINK DOUBLE GATE
1/2" = 1'-0"

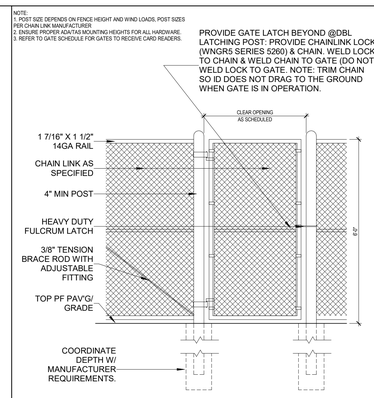


06 DOWNSPOUT DETAIL
1 1/2" = 1'-0"



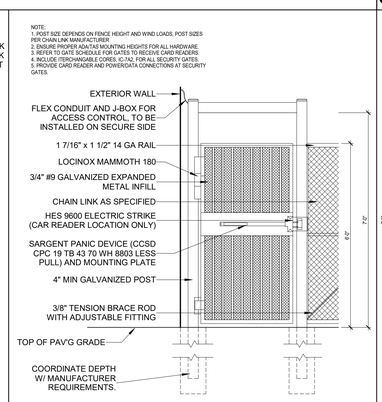
05 GATE HINGE DETAIL
1 1/2" = 1'-0"

NOTE:
1. POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. POST SIZES PER CHAIN LINK MANUFACTURER.
2. ENSURE PROPER ADA/TAS MOUNTING HEIGHTS FOR ALL HARDWARE.
3. REFER TO GATE SCHEDULE FOR GATES TO RECEIVE CARD READERS.



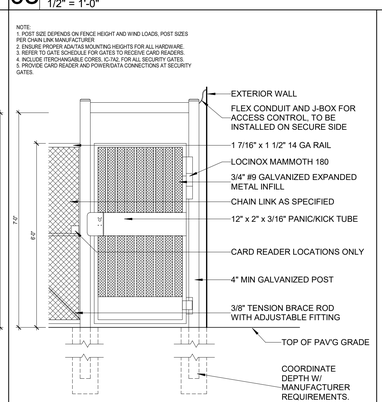
04 CHAIN-LINK SINGLE GATE
1/2" = 1'-0"

NOTE:
1. POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. POST SIZES PER CHAIN LINK MANUFACTURER
2. ENSURE PROPER ADA/TAS MOUNTING HEIGHTS FOR ALL HARDWARE.
3. REFER TO GATE SCHEDULE FOR GATES TO RECEIVE CARD READERS.
4. INCLUDE ITERCHANGABLE CORES, IC-7A2, FOR ALL SECURITY GATES.
5. PROVIDE CARD READER AND POWERDATA CONNECTIONS AT SECURITY GATES.



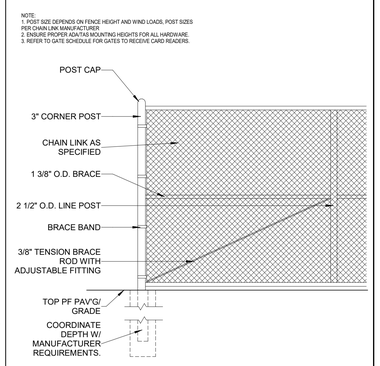
03 CHAIN-LINK SECURITY GATE (PUSH SIDE)
1/2" = 1'-0"

NOTE:
1. POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. POST SIZES PER CHAIN LINK MANUFACTURER
2. ENSURE PROPER ADA/TAS MOUNTING HEIGHTS FOR ALL HARDWARE.
3. REFER TO GATE SCHEDULE FOR GATES TO RECEIVE CARD READERS.
4. INCLUDE ITERCHANGABLE CORES, IC-7A2, FOR ALL SECURITY GATES.
5. PROVIDE CARD READER AND POWERDATA CONNECTIONS AT SECURITY GATES.



02 CHAIN-LINK SECURIT GATE (PULL SIDE)
1/2" = 1'-0"

NOTE:
1. POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. POST SIZES PER CHAIN LINK MANUFACTURER
2. ENSURE PROPER ADA/TAS MOUNTING HEIGHTS FOR ALL HARDWARE.
3. REFER TO GATE SCHEDULE FOR GATES TO RECEIVE CARD READERS.



01 CHAIN LINK FENCE DETAIL @ CORNER
1/2" = 1'-0"

PBK

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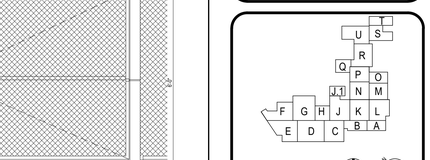


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT
BRANDON D. HOLT
STATE OF TEXAS
02/17/2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

SITE DETAILS

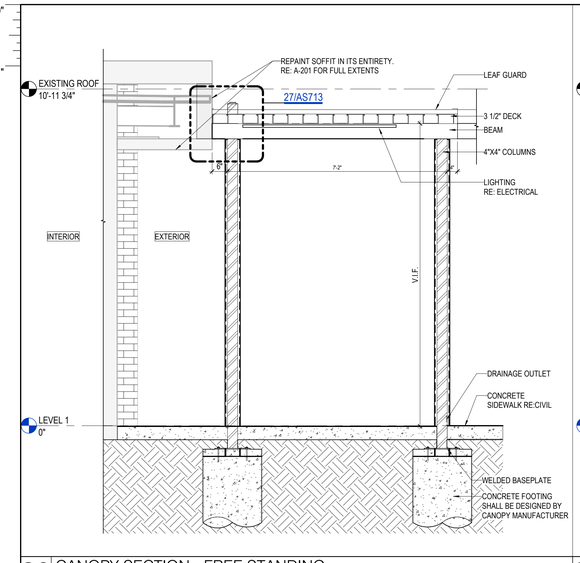
AS712

ISSUE FOR PROPOSAL

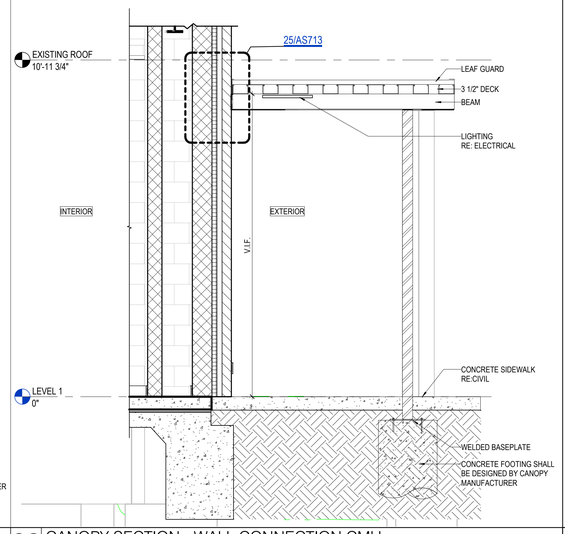
ENLARGED SITE PLAN - CANOPY PLAN AND RCP

AS713

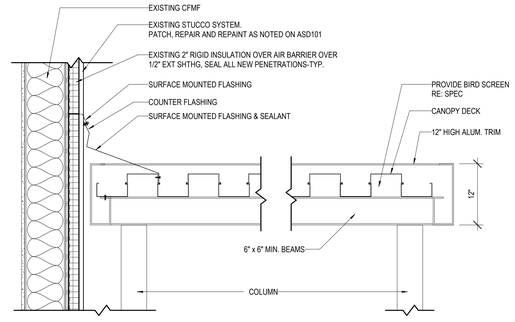
FOR BLUEBEAM LABELING/OCR:



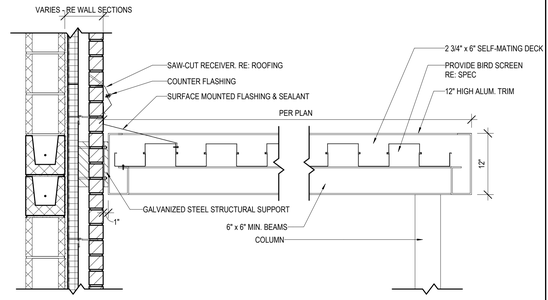
30 CANOPY SECTION - FREE STANDING
1/2" = 1'-0"



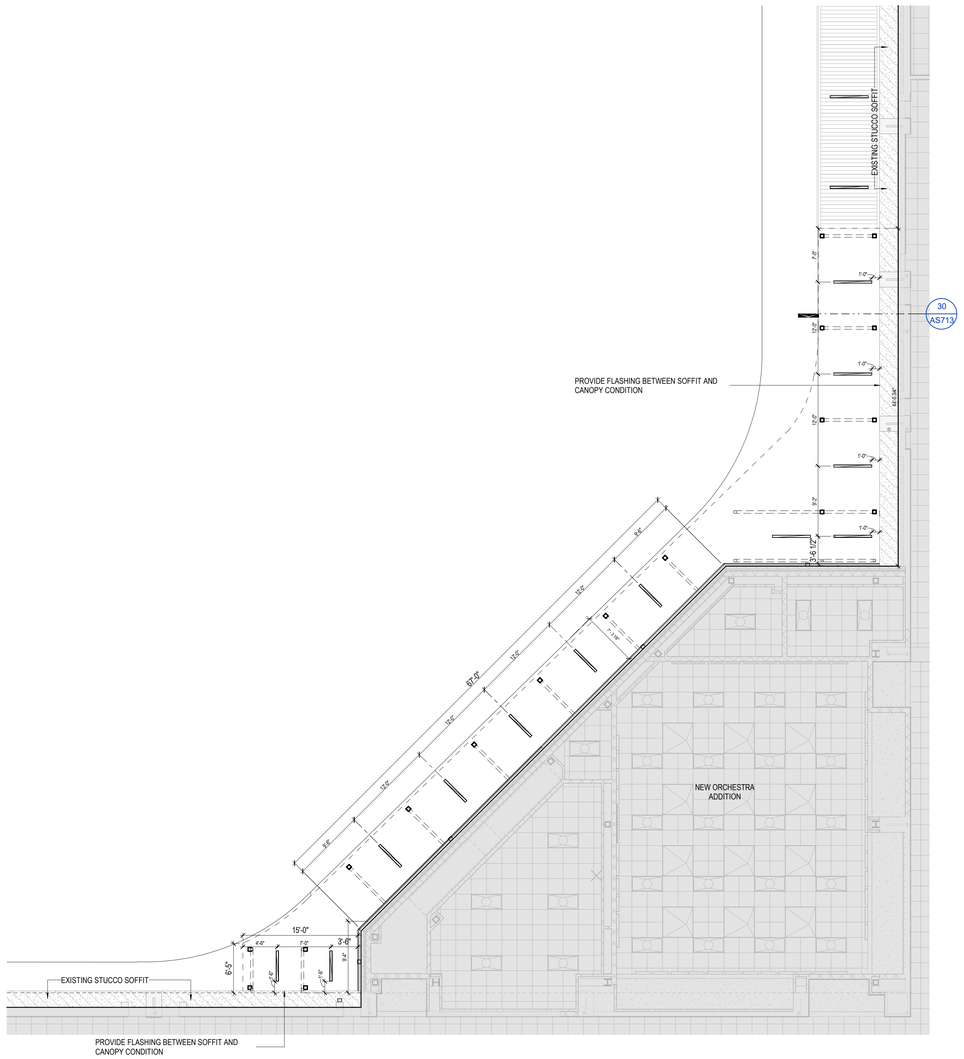
28 CANOPY SECTION - WALL CONNECTION CMU
1/2" = 1'-0"



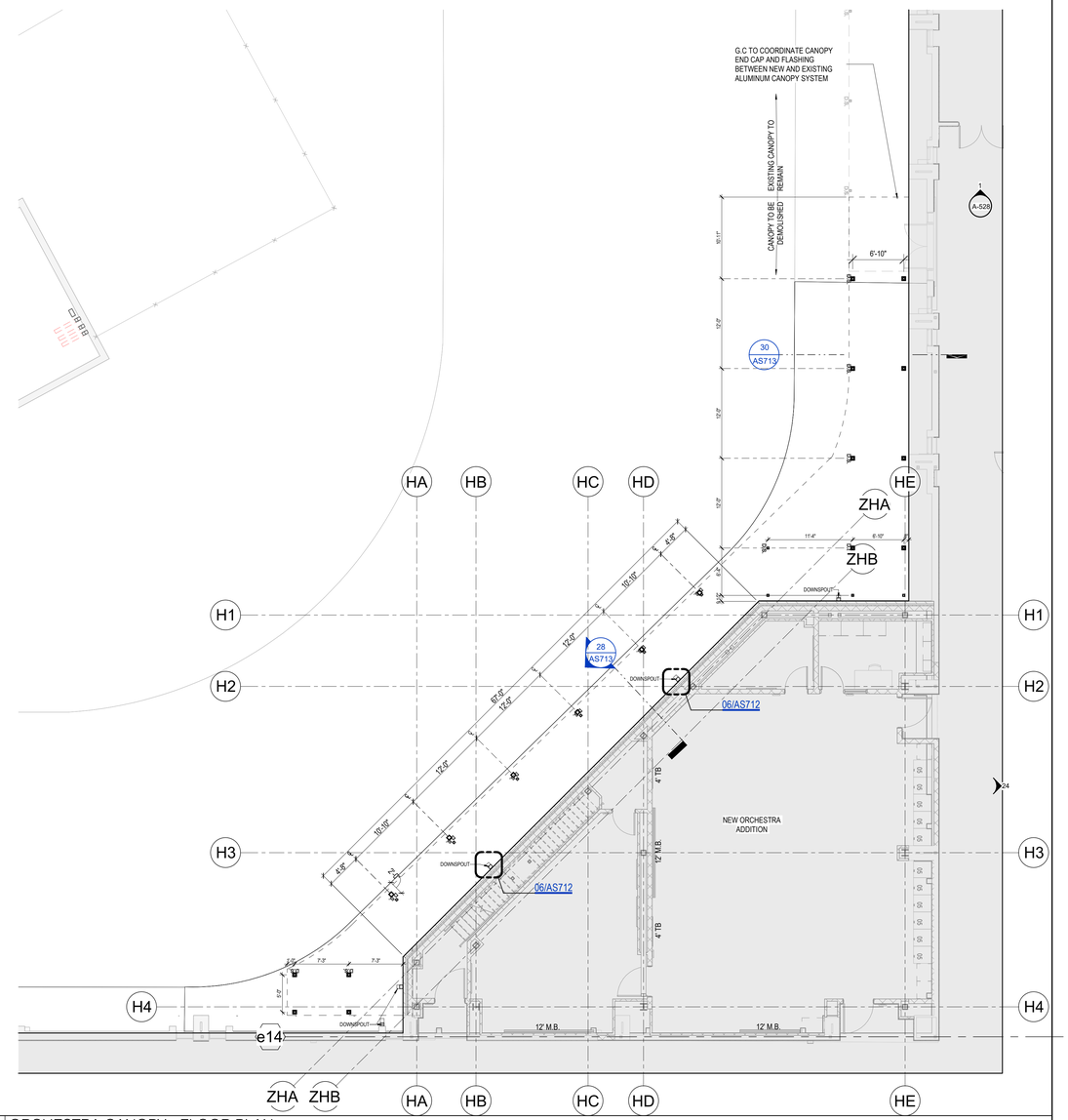
27 METAL STUD W/ STUCCO - FLASHING DETAIL - FREE STANDING
1" = 1'-0"



25 ALUM CANOPY FLASHING DETAIL @ BRICK ATTACHED
1" = 1'-0"



06 ORCHESTRA CANOPY - RCP
1/8" = 1'-0"



03 ORCHESTRA CANOPY - FLOOR PLAN
1/8" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

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LANDSCAPE
EDGELAND GROUP
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STRUCTURAL
KUBENKA ENGINEERS
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MEP/T
LEAP
T 713-540-3300
ACOUSTIC
T 512-476-3654
FOOD SERVICE
RSE
T 281-356-2221
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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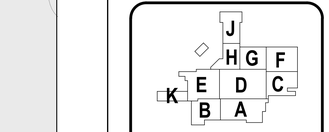
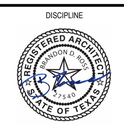


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE



01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ENLARGED SITE PLAN - CANOPY PLAN AND RCP

AS713

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ENLARGED SITE PLAN & PORTABLE LAYOUTS

AS714

FOR BLUEBEAM LABELING:OOR:

0"

1"

ISSUE FOR PROPOSAL

NEW DOOR SCHEDULE - PORTABLES

DOOR			GENERAL	
MARK	WIDTH	HEIGHT	HARDWARE SET	REMARKS
PB1	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB2	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB3	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB4	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB5.1	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB5.2	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB5A	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB5B	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB5C	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB5D	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB6	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB7	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB8	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB9	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB10	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS
PB11	3'-0"	6'-10"		HW FOR PROVIDED PORTTABLE DOORS

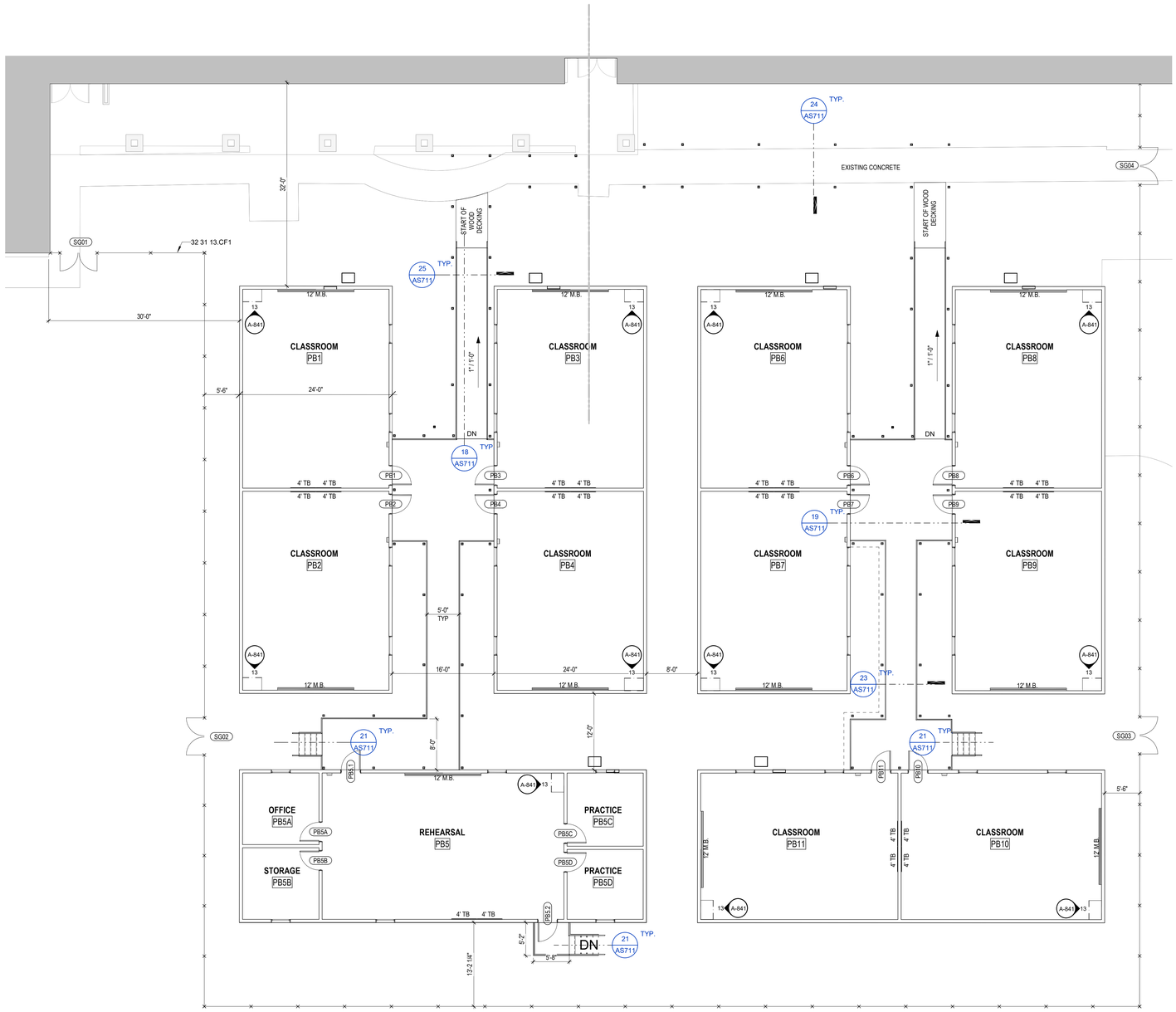
NEW DOOR SCHEDULE - EXTERIOR GATES

DOOR			GENERAL	
MARK	WIDTH	HEIGHT	HARDWARE SET	REMARKS
SG01	6'-0"	6'-0"		EXTERIOR GATE W/ PANIC HARDWARE & KNOX BOX
SG02	6'-0"	6'-0"		EXTERIOR GATE W/ PANIC HARDWARE & KNOX BOX
SG03	6'-0"	6'-0"		EXTERIOR GATE W/ PANIC HARDWARE & KNOX BOX
SG04	6'-0"	6'-0"		EXTERIOR GATE W/ PANIC HARDWARE & KNOX BOX

KEYNOTE LEGEND

NUMBER	DESCRIPTION
32 31 13.27	TENNIS COURT WINDSCREEN
32 31 13.CF1	CHAIN-LINK FENCE SYSTEM

06 WINDSCREEN TENNIS COURT - ENLARGED SITE PLAN
1" = 20'-0"



04 ENLARGED PLANS - PORTABLES
1/8" = 1'-0"

PBK

ARCHITECT
PBK Architects, Inc.
PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
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LEAP
T 713-540-3300
ACOUSTIC
T 512-476-3654
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CONSULTANT NAME
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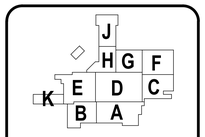

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ENLARGED SITE PLAN & PORTABLE LAYOUTS

AS714

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0"

1"

PORTABLES - CANOPY/RCP

AS715

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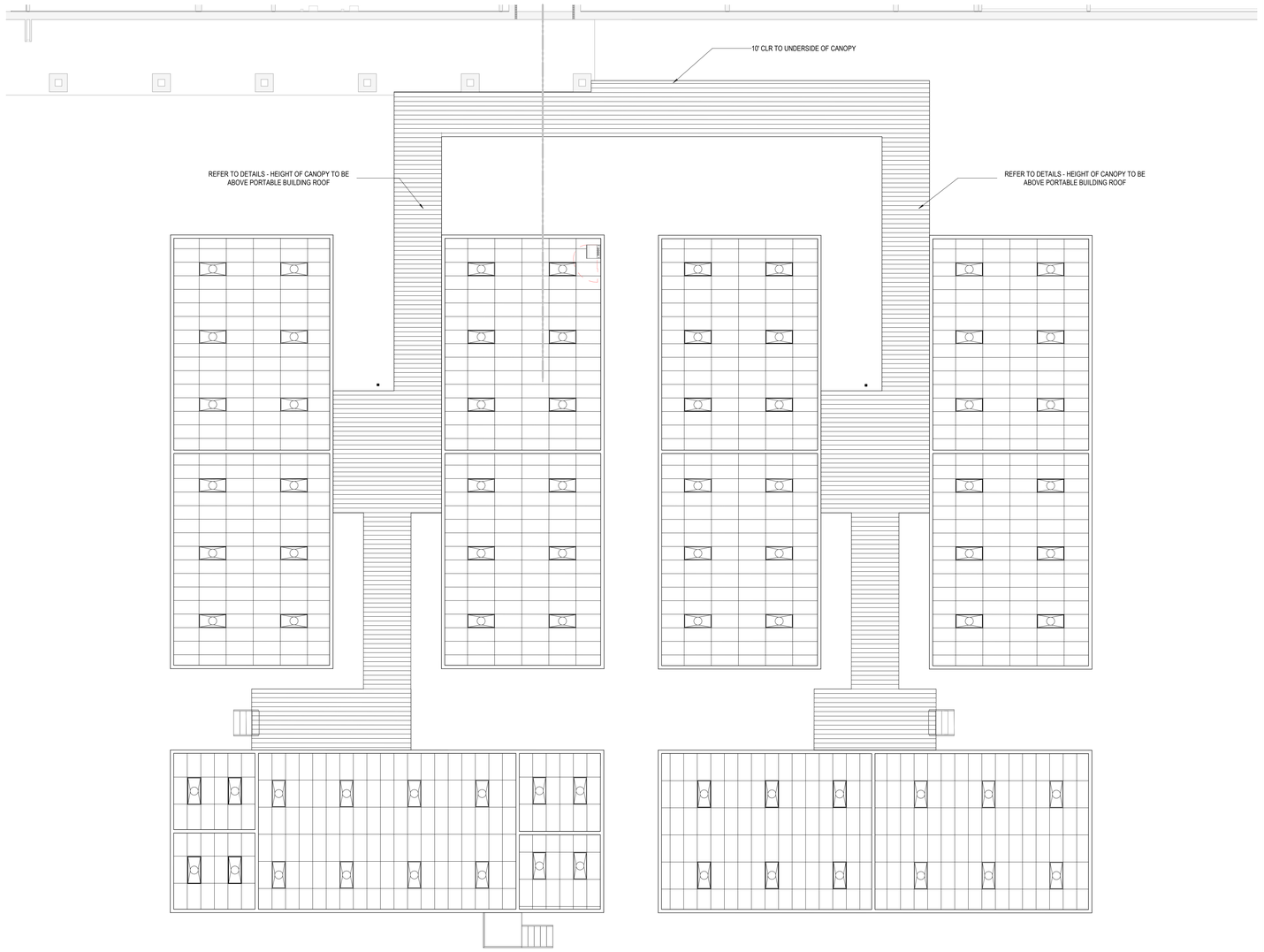

04 PORTABLES/CANOPY - RCP
1/8" = 1'-0"

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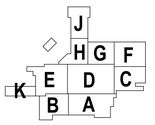

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

PORTABLES - CANOPY/RCP

AS715

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3D VIEW & SHEET LIST

S-000

FOR BLUEBEAM LABELING/OCR:

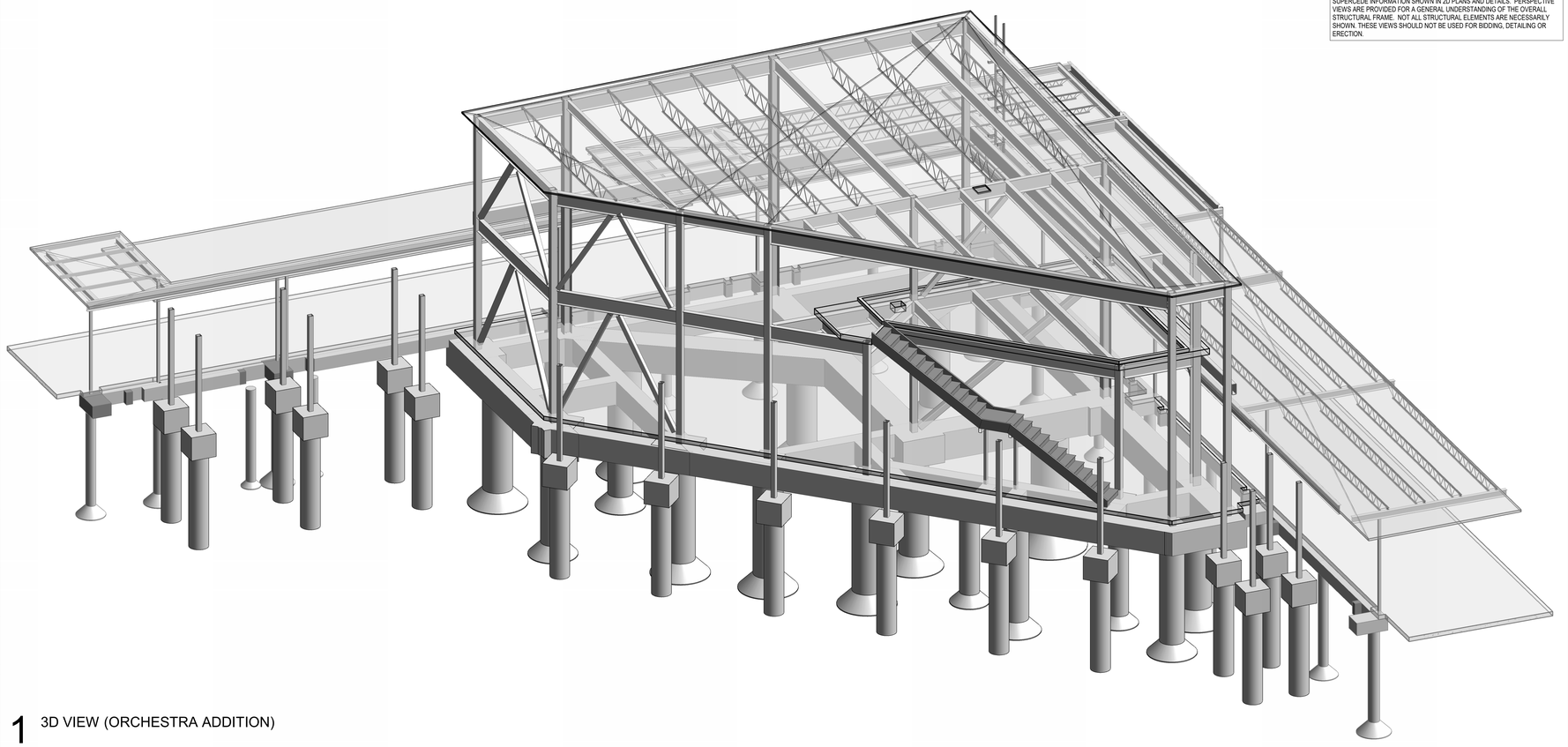
0"

1"

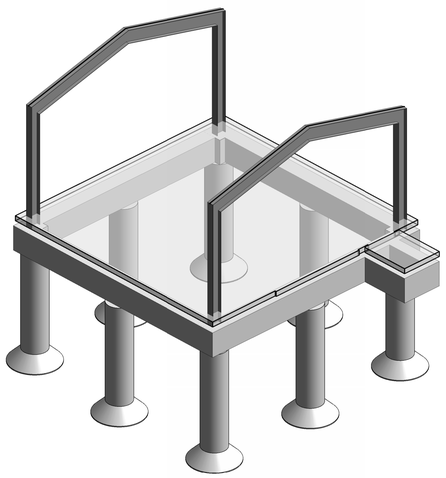
STRUCTURAL SHEET LIST

SHEET NUMBER	SHEET NAME
S-000	3D VIEW & SHEET LIST
S-010	GENERAL NOTES
S-011	GENERAL NOTES AND DESIGN CRITERIA
S-012	GENERAL NOTES
S-013	GENERAL SUBGRADE NOTES AND TYPICAL DETAILS
SD-100	COMPOSITE FOUNDATION DEMO SCOPE PLAN
SD-100H	PIER DEMO PLAN - AREA H
SD-101A	FOUNDATION DEMO PLAN - AREA A
SD-101C	FOUNDATION DEMO PLAN - AREA C
SD-101D	FOUNDATION DEMO PLAN - AREA D
SD-101H	FOUNDATION DEMO PLAN - AREA H
SD-102	COMPOSITE SECOND FLOOR / LOW ROOF DEMO SCOPE PLAN
SD-102H	SECOND FLOOR / LOW ROOF DEMO PLAN - AREA H
SD-103	COMPOSITE ROOF DEMO SCOPE PLAN
SD-103H	ROOF DEMO PLAN - AREA H
SD-104	BOILER ROOM DEMO PLANS
S-101	COMPOSITE FOUNDATION SCOPE PLAN
S-101A	FOUNDATION PLAN - AREA A
S-101C	FOUNDATION PLAN - AREA C
S-101D	FOUNDATION PLAN - AREA D
S-101G	FOUNDATION PLAN - AREA G
S-101H	FOUNDATION PLAN - AREA H
S-102	COMPOSITE SECOND FLOOR / LOW ROOF FRAMING SCOPE PLAN
S-102A	SECOND FLOOR / LOW ROOF FRAMING PLAN - AREA A
S-102G	LOW ROOF FRAMING PLAN - AREA G
S-102H	SECOND FLOOR / LOW ROOF FRAMING PLAN - AREA H
S-103	COMPOSITE ROOF FRAMING SCOPE PLAN
S-103H	ROOF FRAMING PLAN - AREA H
S-104	BOILER ROOM PLANS
S-105	STORAGE BUILDING PLANS
S-300	GENERAL CONCRETE AND STEEL REINF NOTES AND TYPICAL DETAILS
S-301.1	GENERAL SLAB-ON-GRADE NOTES AND TYPICAL DETAILS
S-301.2	SLAB-ON-GRADE TYPICAL DETAILS (CONT.)
S-302.1	GENERAL GRADE BEAM NOTES AND TYPICAL DETAILS
S-302.2	GRADE BEAM TYPICAL DETAILS (CONT.)
S-303	GENERAL FOUNDATION NOTES AND TYPICAL DETAILS
S-310	FOUNDATION DETAILS
S-311	FOUNDATION DETAILS (CONT.)
S-320	SITE ITEMS FOUNDATION DETAILS
S-321	MONUMENT SIGN PLANS & DETAILS
S-330	GENERAL EXISTING FOUNDATION NOTES AND TYPICAL DETAILS
S-331	EXISTING FOUNDATION DETAILS
S-332	TYPICAL EXISTING FOUNDATION DETAILS AT NEW CMU WALLS
S-340	GENERAL PEMB FOUNDATION NOTES AND TYPICAL DETAILS
S-400	GENERAL CMU NOTES AND TYPICAL DETAILS
S-401	CMU TYPICAL DETAILS (CONT.)
S-402	CMU TYPICAL DETAILS (CONT.)
S-403	CMU TYPICAL DETAILS (CONT.)
S-430	EXISTING CMU DETAILS
S-431	EXISTING CMU DETAILS (CONT.)
S-432	EXISTING CMU DETAILS (CONT.)
S-500	GENERAL STEEL AND BASE PLATE NOTES AND TYPICAL DETAILS
S-501	GENERAL STEEL NOTES AND TYPICAL DETAILS
S-502	STEEL TYPICAL DETAILS (CONT.)
S-503	GENERAL STEEL CONNECTION NOTES AND TYPICAL DETAILS
S-504	GENERAL COMPOSITE STEEL NOTES AND TYPICAL DETAILS
S-505	COMPOSITE STEEL TYPICAL DETAILS (CONT.)
S-506	TYPICAL STEEL DECK DETAILS
S-507	GENERAL STEEL NOTES AND TYPICAL DETAILS
S-508	STEEL TYPICAL DETAILS (CONT.)
S-509	STEEL TYPICAL DETAILS (CONT.)
S-510	COMPOSITE FRAMING DETAILS
S-511	COMPOSITE FRAMING DETAILS (CONT.)
S-520	ROOF FRAMING DETAILS
S-521	ROOF FRAMING DETAILS (CONT.)
S-522	ROOF FRAMING DETAILS (CONT.)
S-523	ROOF FRAMING DETAILS (CONT.)
S-530	GENERAL EXISTING FRAMING NOTES AND TYPICAL DETAILS
S-540	PEMB FRAMING DETAILS
S-600	TYPICAL WIND BRACING ELEVATIONS
S-610	TYPICAL WIND BRACING DETAILS
S-700	TYPICAL LADDER DETAILS
S-800	PORTABLE BUILDING - GENERAL NOTES AND TYPICAL FOUNDATION PLAN
S-801	PORTABLE BUILDING - 1-3 - WALKWAY, STAIRS AND RAMPS FRAMING PLAN
S-802	PORTABLE BUILDING - 4-6 - WALKWAY, STAIRS AND RAMPS FRAMING PLAN
S-810	PORTABLE BUILDING - WALKWAY, STAIRS AND RAMPS FRAMING DETAILS
S-811	PORTABLE BUILDING - WALKWAY ELEVATIONS, SECTIONS AND DETAILS

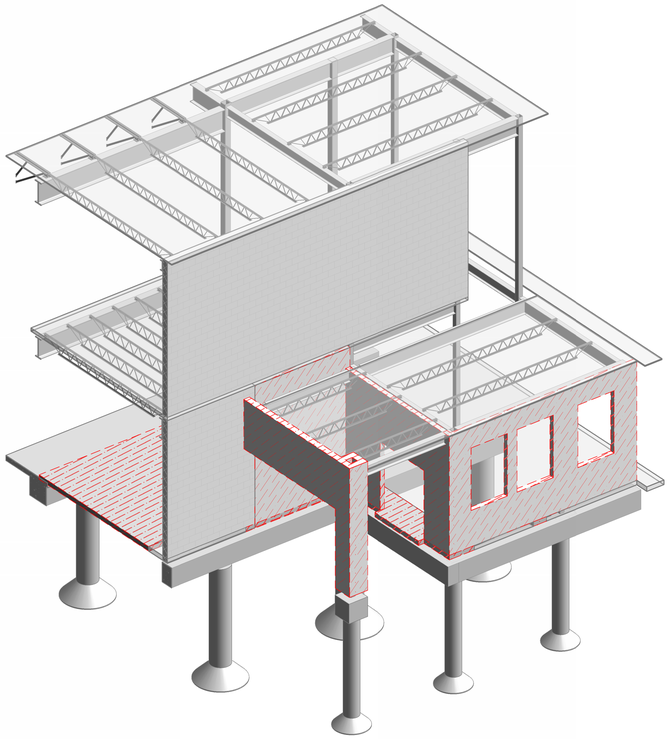
NOTE:
3D IMAGES PRESENTED FOR INFORMATIONAL PURPOSES ONLY AND DO NOT SUPERCEDE INFORMATION SHOWN IN 2D PLANS AND DETAILS. PERSPECTIVE VIEWS ARE PROVIDED FOR A GENERAL UNDERSTANDING OF THE OVERALL STRUCTURAL FRAME. NOT ALL STRUCTURAL ELEMENTS ARE NECESSARILY SHOWN. THESE VIEWS SHOULD NOT BE USED FOR BIDDING, DETAILING OR ERECTION.



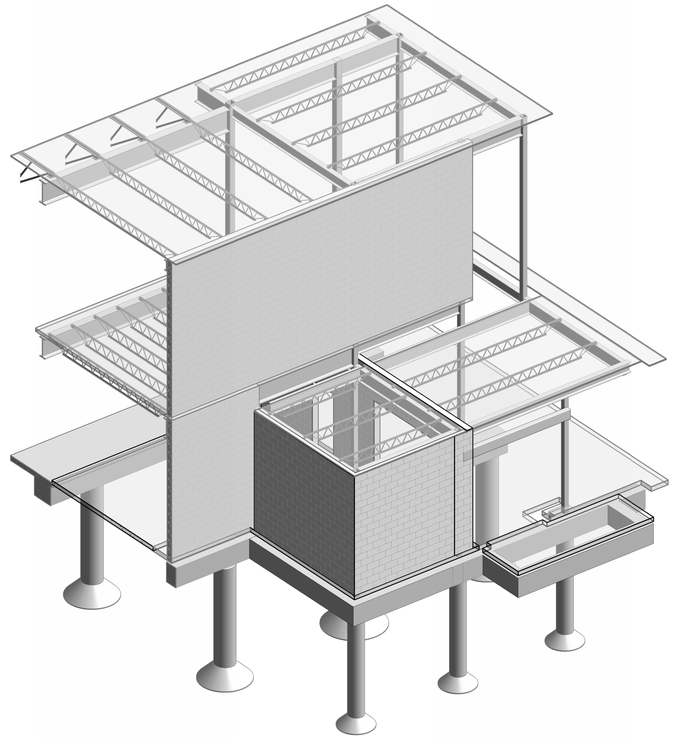
1 3D VIEW (ORCHESTRA ADDITION)



2 3D VIEW (STORAGE BUILDING)



3 DEMO 3D VIEW (RESTROOM ADDITION/ RENOVATION)



4 3D VIEW (RESTROOM ADDITION/ RENOVATION)

Kubala ENGINEERS
Ph: (800)248-3674
www.kubalaengineers.com
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TX Firm: BR 1808

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KUBALA ENGINEERS
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MEP/T
LEAP
T 713-540-3300

ACOUSTIC
ACOUSTX
T 512-474-3464

FOOD SERVICE
RSC
T 281-556-2223

POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN

J
H G F
K E D C
B A

NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

3D VIEW & SHEET LIST

S-000

ISSUE FOR PROPOSAL

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BJ
Plot Stamp:
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GENERAL NOTES
S-010
FOR BLUEBEAM LABELING

0"
1"

MATERIAL IDENTIFICATION SYMBOLS

THE FOLLOWING MATERIAL IDENTIFICATION SYMBOLS MAY BE USED IN THE SECTIONS AND DETAILS:

ALUMINUM | CAST-IN-PLACE CONCRETE | EARTH | EARTH (UNDISTURBED) | EXISTING CONSTRUCTION | GRAVEL | GROUT

MASONRY | RIGID INSULATION | ROCK | STEEL | STRUCTURAL PRECAST CONCRETE | WOOD | BACKFILL

THE FOLLOWING MATERIAL IDENTIFICATION SYMBOLS MAY BE USED IN THE PLANS:

STEEL COLUMN | CONCRETE COLUMN | CONCRETE WALL | LOADBEARING MASONRY WALL

STRUCTURAL TILT-UP WALL | NON-LOADBEARING MASONRY WALL | GRATING

BOUNDARY OF EXISTING CONSTRUCTION | BOUNDARY OF EXISTING CONSTRUCTION TO BE DEMOLISHED

BOUNDARY OF FUTURE EXPANSION | BOUNDARY OF CONCRETE TOPPING SLAB POURED ON SUBSTRUCTURE

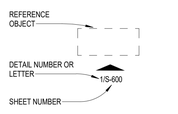
SYMBOLIC LINEWORK

THE FOLLOWING SYMBOLIC LINEWORK MAY BE USED THROUGHOUT THE DRAWINGS:

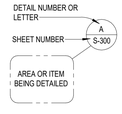
- REFERENCE GRID LINE SYMBOL
- CENTERLINE SYMBOL
- PLAN MATCHLINE SYMBOL
- NON-STRUCTURAL LINE SYMBOL
- WELDED WIRE REINFORCEMENT SYMBOL
- STEEL JOIST LINE SYMBOL
- OPENING LINE SYMBOL
- PIPING RUN

VIEW REFERENCE SYMBOLS

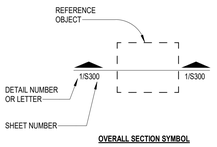
THESE FOLLOWING SYMBOLS MAY BE USED THROUGHOUT THE DRAWINGS TO REFER TO OTHER VIEWS:



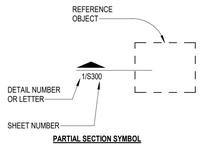
FRAMING ELEVATION SYMBOL



DETAIL REFERENCE SYMBOL



OVERALL SECTION SYMBOL

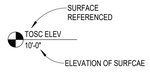


PARTIAL SECTION SYMBOL

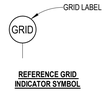
UNIVERSAL SYMBOLS

THESE FOLLOWING SYMBOLS MAY BE USED THROUGHOUT THE DRAWINGS:

REVISION CLOUD SYMBOL



ELEVATION DESIGNATION SYMBOL



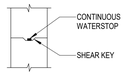
REFERENCE GRID INDICATOR SYMBOL

WORK POINT SYMBOL

FLAT FACE BREAK MARK

CURVED FACE BREAK MARK

LINE BREAK MARK



SHEAR KEY W/T CONT. WATERSTOP

PLAN SYMBOLS

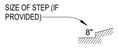
THE FOLLOWING SYMBOLS MAY BE USED THROUGHOUT THE PLANS:

SLOPE TRANSITION INDICATOR SYMBOL

RAMP SLOPE INDICATOR SYMBOL

SLOPE PITCH INDICATOR SYMBOL

STEP INDICATOR SYMBOL

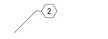


STEP TO SLOPE INDICATOR SYMBOL

RIDGE INDICATOR SYMBOL

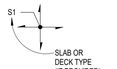
PROJECT NORTH ARROW SYMBOL

SLOPE MARK



KEYNOTE INDICATOR SYMBOL

ONE-WAY SLAB OR DECK SPAN INDICATOR SYMBOL

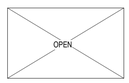


TWO-WAY SLAB SPAN INDICATOR SYMBOL

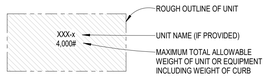
POST-TENSIONING TENDON SYMBOLS

DECK SYMBOL

SMALL OPENINGS IN STRUCTURAL SLAB OR DECK



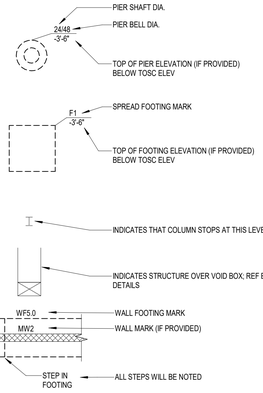
LARGE OPENING IN STRUCTURAL SLAB OR DECK



MECHANICAL UNIT OR OTHER EQUIPMENT

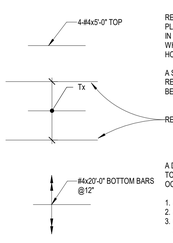
FOUNDATION ANNOTATION STYLES

THE FOLLOWING STRUCTURAL ANNOTATIONS MAY APPEAR ON THE FOUNDATION PLANS:



CONCRETE ANNOTATION STYLES

THE FOLLOWING STRUCTURAL ANNOTATIONS MAY APPEAR ON THE CONCRETE FRAMING PLANS:



REINFORCING STEEL NOTED IN PLAN SHALL BE LOCATED ACCORDING TO PLAN NOTES, TYPICAL VIEWS, AND SCHEDULES. HOOKS ARE INDICATED IN PLAN WHERE REQUIRED FOR NON-SCHEDULED REINFORCING STEEL. WHERE HOOKS ARE SHOWN, LENGTHS PROVIDED DO NOT INCLUDE HOOK.

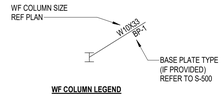
A SINGLE ARROWED LINE INDICATES THE EXTENT OVER WHICH THE REINFORCING STEEL IS TO BE DISTRIBUTED WITH AN EQUAL SPACING BETWEEN BARS.

REFERENCE LINE OR OBJECT WHERE REINFORCING STOPS

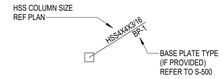
A DOUBLE ARROWED LINE INDICATES THAT THE REINFORCING STEEL IS TO BE PROVIDED IN EACH DIRECTION UNTIL ONE OF THE FOLLOWING OCCURS:

1. AN EDGE OF SLAB
2. A SIGNIFICANT CHANGE IN THE SLAB GEOMETRY
3. OTHER REINFORCING STEEL OF A SIMILAR NATURE IS SHOWN.

STEEL ANNOTATION STYLES

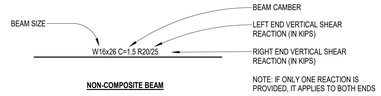


WF COLUMN LEGEND

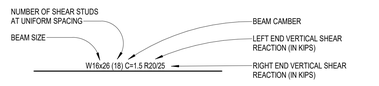


HOLLOW STRUCTURAL STEEL COLUMN LEGEND

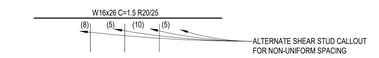
THE FOLLOWING STRUCTURAL ANNOTATIONS MAY APPEAR ON THE STEEL FRAMING PLANS. ALL LOADS INDICATED ARE FACTORED:



NON-COMPOSITE BEAM

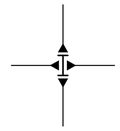


COMPOSITE BEAM



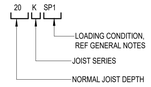
VERTICAL BRACE

BEAM BOTTOM BRACING ON PLAN

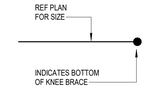


INDICATES MOMENT CONNECTION - REF MOMENT CONNECTION DETAILS

INDICATES STEEL BEAM SPLICE - REFSTRUCTURAL STEEL SIMPLE BEAM CONNECTION SBX-1



INDICATES OPEN-WEB STEEL JOIST KEY



INDICATES KNEE BRACE

TYPICAL STRUCTURAL ABBREVIATIONS

A

AB	ANCHOR BOLT
AFF	ABOVE FINISH FLOOR
ACI	AMERICAN CONCRETE INSTITUTE
ADD'L	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFS	ARCH FINISH SURFACE
AGGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
ARCH	ARCHITECTURAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY

B

BF	BACK FACE
BFB	BOTTOM FLANGE BRACE
BFF	BELOW FINISH FLOOR
BL	BLOCK LINTEL
BLE	BRACKET LEDGE ELEVATION
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOA	BACK OF ANGLE
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BRKT	BRACKET
BLE	BRICK LEDGE ELEVATION
BTWN	BETWEEN

C

C	CHANNEL
COMP	COMPRESSION
CANT	CANTILEVER
CGS	CENTROID OF TENDONS
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONN	CONNECTION
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COR	CORNER
CRSI	CONCRETE REINFORCING STEEL INSTITUTE

D

DBA	DOWEL BAR ANCHOR
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM(S)	DIMENSION(S)
DL	DEAD LOADS
DT	DOUBLE TEE
DS	DOWNSPOUT
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)

E

EA	EACH
EAO	EDGE ANGLE OFFSET
EDC	ELECTRICAL DISTRIBUTION CENTER
EF	EACH FACE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ENGR	ENGINEER
EOD	EDGE OF ROOF DECK
EOS	EDGE OF FLOOR SLAB
EQ	EQUAL
EQUIV	EQUIVALENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EX-STR	EXTRA STRONG

F

FABR	FABRICATOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FL	FLOOR
FLG	FLANGE
FM	FACTORY MUTUAL
FRP	FIBER REINFORCED PLASTIC
FS	FAR SIDE
FTG	FOOTING
FP	FIREPROOF(ING)
FV	FIELD VERIFY

G

GA	GAUGE
GB	GRADE BEAM
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GR	GRADE
GYP BD	GYPSUM BOARD

H

H	HEIGHT
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR

I

IBC	INTERNATIONAL BUILDING CODE
INFO	INFORMATION
INT	INTERIOR
INTERM	INTERMEDIATE
ISO	ISOLATION
IT	INVERTED TEE

J

JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT

K

KIP	1000 POUNDS
KLF	KIP PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH

L

L	ANGLE OR LENGTH
LB	POUNDS
Ld	TENSION DEVELOPMENT LENGTH AS SHOWN IN REINFORCING LAP SCHEDULE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LONG	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LWC	LIGHT WEIGHT CONCRETE

M

MAX	MAXIMUM
MC	MOMENT CONNECTION
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
MTR	MATERIAL

N

NIC	NOT IN CONTRACT
NO OR #	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE (150 PCF)

O

OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG(S)	OPENING(S)

P

PAF	POWDER ACTUATED FASTENER
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCI	PRECAST AND PRESTRESSED CONCRETE INSTITUTE
PT	POST-TENSIONING INSTITUTE
PE	PROFESSIONAL ENGINEER
PEMB	PRE-ENGINEERED METAL BUILDING
PENTR	PENETRATION
PL	PLATE
PLAM	PLASTIC LAMINATE
PLF	POUNDS PER LINEAR FOOT
PP	PARTIAL PENETRATION
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONING

Q

QTY	QUANTITY

R

R	RADIUS
RAF	RAISED ACCESS FLOOR
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REF	REFER TO
REINF	REINFORCING
REQD	REQUIRED
REV	REVERSE
RND	ROUND
RO	ROUGH OPENING
RTU	ROOF TOP UNIT

S

SCHED	SCHEDULE(D)
SECT	SECTION
SF	SQUARE FOOT (FEET)
SHT	SHEET
SIM	SIMILAR
SPA	SPACE
SPECS	SPECIFICATIONS
SPEC'D	SPECIFIED
STIFF	STIFFNER
STIR	STIRRUPS
STL	STEEL
SUBCONTR	SUB-CONTRACTOR
SW	SIDEWALK
SYM	SYMMETRICAL

T

TEMP	TEMERATURE
T	TENSION
TERR	TERRAZO
THK	THICK
T&B	TOP AND BOTTOM
TOB	TOP OF BEAM
TOF	TOP OF FOOTING
TOP	TOP OF PIER ELEVATION
TOS	TOP OF STEEL
TOSC	TOP OF STRUCTURAL CONCRETE
TOW	TOP OF WALL
TYP	TYPICAL

U

UNO	UNLESS NOTED OTHERWISE

V

V	SHEAR
VERT	VERTICAL

W

WS	WATERSTOP
WPFG	WATERPROOFING
WWF	WELDED WIRE FABRIC
WB	WIND BRACE
WL	WIND LOAD
W/	WITH
W/O	WITHOUT
WP	WORKING POINT
WD	WOOD

Kubala ENGINEERS
Ph: (800)248-3674
www.kubalaengineers.com
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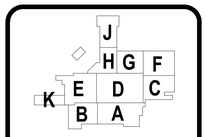
CIVIL
BROOKS & SPARKS T 281-478-9998
LANDSCAPE
EDDELEAD GROUP T 713-862-1666
STRUCTURAL
KUBALA ENGINEERS T 713-840-3343
MEP/T
LEAP T 713-540-3320
ACOUSTIC
T 512-474-3464
FOOD SERVICE
T 281-356-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
REGISTERED
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

GENERAL NOTES

S-010

ISSUE FOR PROPOSAL

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/ST23_220022_CFISD_Arnold MS.rvt
CHECKED BY: MS
DRAWN BY: BJ
Plot Stamp: 2/17/2025 9:22:55 AM

0"
1"

GENERAL:

CODES, DRAWINGS AND SPECIFICATIONS:

1. THE CONSTRUCTION DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE IBC 2018. ALL CODES AND SPECIFICATIONS LISTED ABOVE SHALL INCLUDE ALL AMENDMENTS AND ADDENDA IN FORCE AT THE DATE OF THE CONTRACT DOCUMENTS.

TYPICAL DETAILS:

1. TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL APPLY TO ALL SIMILAR LIKE CONDITIONS OCCURRING ON THE PROJECT WHETHER OR NOT THEY ARE KEYED IN AT EACH PARTICULAR LOCATION.

MISCELLANEOUS:

1. WHERE CONFLICTS EXIST BETWEEN THE VARIOUS PUBLICATIONS AS SPECIFIED HEREIN, THE STRICTER REQUIREMENTS SHALL GOVERN UNLESS NOTED OTHERWISE.WHERE CONFLICTS EXIST BETWEEN THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS (STRUCTURAL DOCUMENTS, SPECIFICATIONS) AS SPECIFIED HEREIN, THE STRICTER REQUIREMENTS SHALL GOVERN.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
3. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
4. SLEEVES AND BLOCKOUTS REQUIRED FOR PASSAGE OF DUCTWORK, PIPING, DRAINS, CONDUIT, ETC., AND ANCHORS REQUIRED FOR ANCHORING EQUIPMENT AND PIPING ARE NOT GENERALLY INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL DETERMINE SUCH REQUIREMENTS FROM OTHER SERIES DRAWINGS, SUBCONTRACTORS, AND SUPPLIERS AND SHALL COORDINATE THE LOCATIONS AND DETAILS FOR THESE ITEMS PRIOR TO FABRICATION OR CONSTRUCTION OF THE STRUCTURE. ANY CONFLICTS BETWEEN THESE ITEMS AND THE BUILDING STRUCTURE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
5. VERIFY OR ESTABLISH, LOCATIONS AND DIMENSIONS OF ALL FRAMED OPENINGS RELATED TO EQUIPMENT OR DUCTWORK, INCLUDING INSULATION, IF ANY. WHERE SUBSTANTIAL RELOCATION OR RECONFIGURATION IS REQUIRED, SUBMIT A DRAWING TO THE ARCHITECT FOR REVIEW.
6. MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL WHICH ARE NOT AS SPECIFIED IN THE DOCUMENTS SHALL BE ACCOMPANIED BY A CURRENT ES REPORT (BY ICC EVALUATION SERVICE, INC.) OR ICBO REPORT (BY INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS). MATERIALS OR PRODUCTS THAT DO NOT HAVE AN ES OR ICBO REPORT INDICATING THE SUBSTITUTED MATERIAL OR PRODUCT TO BE EQUAL TO THAT SPECIFIED, WILL NOT BE CONSIDERED.
7. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS.
8. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
9. ALL HEAVILY LOADED VEHICLES, CONCRETE TRUCKS AND CRANES SHALL NOT BE DRIVEN ACROSS GRADE BEAMS OR BUILDING SLABS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE SLAB INDUCED FROM THIS TYPE OF EQUIPMENT.
10. ERECTION OF STRUCTURAL STEEL MAY NOT BEGIN UNTIL CONCRETE FOUNDATION HAS CURED FOR A MINIMUM OF THREE DAYS. STRUCTURAL STEEL OR OTHER HEAVY LOADS SHALL NOT BE STOCKPILED ON ANY SLAB UNTIL IT HAS CURED FOR A MINIMUM OF SEVEN DAYS.
11. NOTE THAT THE GROUND FLOOR SLAB IS A GROUND SUPPORTED SLAB AT GRADE AS PER THE DESIGN RECOMMENDED IN THE SOIL REPORT. IT IS NOT A STRUCTURAL SLAB AND AS SUCH IT IS NOT DESIGNED FOR ANY EXTERNAL UPWARD OR DOWNWARD LOADS, IT IS INTENDED TO BE ENTIRELY SUPPORTED BY THE PREPARED GROUND UNDER THE SLAB. THE CONTRACTOR SHOULD NOTE THAT THE PERFORMANCE OF THE SLAB AS DESIGNED AND INTENDED BY THE SOIL ENGINEER IS HIGHLY DEPENDENT ON HOW WELL THE CONTRACTOR FOLLOWS THE SITE PREPARATION INSTRUCTION IN THE SOIL REPORT.
12. ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. THE ABILITY OF THE STRUCTURAL FRAME TO RESIST THE REQUIRED CODE FORCES DERIVES FROM THE COMPLETE INSTALLATION OF THE LATERAL FORCE RESISTING SYSTEMS AND DIAPHRAGMS DESCRIBED BELOW. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE LATERAL-LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND ALL DESIGNATED CONCRETE ELEMENTS (IF ANY) HAVE REACHED A MINIMUM OF 75% OF THEIR DESIGN STRENGTH.
13. THE STRUCTURE HAS BEEN DESIGNED FOR THE LOADS IDENTIFIED WITHIN THESE STRUCTURAL DRAWINGS THAT ARE ANTICIPATED TO BE APPLIED TO THE FINAL STRUCTURE ONCE COMPLETED AND OCCUPIED. THE CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE ADEQUACY OF THE STRUCTURE TO SUPPORT ANY APPLIED CONSTRUCTION LOADS, INCLUDING THOSE DUE TO CONSTRUCTION VEHICLES OR EQUIPMENT, MATERIAL HANDLING OR STORAGE, SHORING OR RESHORING, OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED VERIFYING THE ADEQUACY OF THE STRUCTURE FOR ANY PROPOSED CONSTRUCTION LOADS THAT ARE IN EXCESS OF THE STATED DESIGN LOADS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE TO DESIGN OR CHECK THE STRUCTURE FOR LOADS APPLIED TO THE STRUCTURE FOR ANY CONSTRUCTION ACTIVITY.

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND / OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL, METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT / ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.
5. ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.
6. THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.
7. REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.
8. WHERE EXCAVATION BELOW THE BOTTOM OF THE PERIMETER GRADE BEAM OF THE EXISTING BUILDING IS REQUIRED FOR NEW CONSTRUCTION ADJACENT TO SLAB-ON-GRADE AREAS OF THE EXISTING BUILDING, PROVIDE A POSITIVE METHOD, SUCH AS SHEET METAL PILING OR OTHER SOIL RETENTION METHOD, TO PREVENT SOIL FROM CAVING INTO THE NEW EXCAVATION AND UNDERMINING THE EXISTING SLAB-ON-GRADE.
   A. THE DESIGN OF THE RETENTION METHOD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   B. SUBMIT RETENTION PLAN TO ARCHITECT FOR INFORMATION.
9. EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.
11. DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.
12. THE FACE OF ALL CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED. ALLOW SURFACE TO COMPLETELY DRY, COAT WITH AN APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. EXPOSED REINFORCEMENT SHALL BE CUT OFF, GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISHED WITH AN EPOXY PAINT.
13. WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PREDEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS, FLOORS, AND/OR ROOFS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL PRIOR TO THE START OF DEMOLITION. PHOTOS MUST SHOW EXISTING CONDITIONS OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS, INCLUDING FINISH SURFACES, THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY SALVAGE AND DEMOLITION OPERATIONS. THE LOCATIONS OF PRE-DEMOLITION PHOTOGRAPHS & VIDEOS SHALL BE IDENTIFIED ON AN ACCOMPANYING PLAN VIEW.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.
7. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION SUBCONTRACTOR WHO MEETS THE FOLLOWING REQUIREMENTS:
   A. A COMPANY WITH MINIMUM OF FIVE (5) YEARS OF SELECTIVE STRUCTURAL DEMOLITION EXPERIENCE OF SIMILAR SIZE, SCALE, AND COMPLEXITY OF THE DEMOLITION WORK INVOLVED IN THIS PROJECT. FURTHERMORE, THE SITE SUPERINTENDENT OR FOREMAN SHALL HAVE THE SAME REQUIRED EXPERIENCE.
   B. AT A MINIMUM, A DEMOLITION SUBCONTRACTOR SHALL HAVE A REPRESENTATIVE WHO HAS COMPLETED OSHA 30 TRAINING AND BE PRESENT ON SITE DURING ALL DEMOLITION ACTIVITIES.
   C. ANY DEMOLITION SUBCONTRACTORS WITH OSHA VIOLATIONS WITHIN THE PAST 5 YEARS OR ARE UNDER ACTIVE OSHA INVESTIGATIONS WILL NOT BE CONSIDERED QUALIFIED FOR STRUCTURAL DEMOLITION.
   D. IN CASES WHERE THE GENERAL CONTRACTOR WISHES TO EMPLOY MULTIPLE DEMOLITION SUBCONTRACTORS FOR VARIOUS DEMOLITION SCOPE, ALL DEMOLITION SUBCONTRACTORS SHALL MEET THE ABOVE QUALIFICATIONS.
8. THE STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION AND TEMPORARY SHORING DELEGATED DESIGN ENGINEER WHO IS A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS AND SPECIALIZES IN DEMOLITION AND TEMPORARY STRUCTURES. THE DELEGATED DESIGN ENGINEER IS RESPONSIBLE FOR THE FOLLOWING:
   A. PROVIDE A LETTER STATING THAT THEY FULLY UNDERSTAND THE SCOPE OF WORK REQUIRED FROM ALL DISCIPLINES.
   B. SHORING PLANS AND DEMOLITION PLANS, WHICH INCLUDES THE SEQUENCE OF SHORING, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   C. EXCAVATION SUPPORT AND PROTECTION SYSTEM PLANS, WHICH INCLUDES THE SEQUENCE OF SUPPORT & PROTECTION SYSTEM, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   D. PERFORM PERIODIC SITE VISITS WHICH INCLUDE VARIOUS MILESTONES FOR THE DEMOLITION AND SHORING SUBCONTRACTORS AND SHALL PROVIDE OBSERVATION REPORT, PHOTOS, ETC. BASELINES SHALL BE SET PRIOR TO TEMPORARY SHORING AND SHORTLY AFTER TEMPORARY SHORING IS INSTALLED. MEASUREMENTS SHALL BE TAKEN AT MILESTONES.
9. AN ON-SITE PRECONSTRUCTION DEMOLITION MEETING IS REQUIRED PRIOR TO ANY DEMOLITION ACTIVITIES, WHICH MUST INCLUDE THE DELEGATED DESIGN ENGINEER, STRUCTURAL ENGINEER OF RECORD, ARCHITECT, OWNER, GENERAL CONTRACTOR, AND DEMOLITION SUBCONTRACTOR REPRESENTATIVES OVERSEEING DEMOLITION WORK PER NOTES 7& 8. A. THE PRECONSTRUCTION MEETING SHALL INCLUDE A SITE WALK TO GC SHALL HAVE REMOVED SUPERFICIAL/ARCHITECTURAL COVERINGS SO THAT STRUCTURE IS VISIBLE DURING SITE WALK.
10. THE GENERAL CONTRACTOR SHALL PROVIDE A "TWO-WEEK LOOK AHEAD" TO INDICATE UPCOMING AREAS WHERE DEMOLITION WORK IS SCHEDULED TO TAKE PLACE, SO ALL PARTIES ARE AWARE OF TIMELINE AND ANY COORDINATION WITH ARCHITECT AND CONSULTANTS CAN TAKE PLACE. THE HIGHLIGHTED PLAN SHOULD BE COMPLETED BY THE GENERAL CONTRACTOR (IN CONJUNCTION WITH THEIR DEMOLITION SUBCONTRACTOR) AND BE AVAILABLE FOR DISCUSSION AT THE WEEKLY OAC MEETING.

ALLOWANCE NOTES:

1. TO WHOM IT MAY CONCERN: LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING WERE AVAILABLE FOR OUR USE IN PREPARATION OF THESE CONSTRUCTION DOCUMENTS. WHILE WE DID MAKE MULTIPLE IN-PERSON DETAILED SITE VISITS, OUR OBSERVATIONS ARE LIMITED TO VISUAL OBSERVATIONS ONLY. NO DEMOLITION WAS PERFORMED TO VIEW ITEMS THAT CANNOT BE VIEWED WITHOUT SUCH DEMOLITION. THEREFORE, IT IS NOT POSSIBLE TO FULLY UNDERSTAND AND ACCOUNT FOR THE EXISTING CONDITIONS TO ACCOUNT FOR ANY POTENTIALLY UNREALIZED CONDITIONS, AS IT RELATES TO THE RENOVATION OF THE EXISTING BUILDING, THE GENERAL CONTRACTOR SHALL PROVIDE THE FOLLOWING ALLOWANCES:

   A. **STEEL ALLOWANCE:** PROVIDE AN ALLOWANCE FOR AN ADDITIONAL 6.5 TONS OF MISCELLANEOUS STEEL. SIZES OF MEMBERS AND USE OF MEMBERS SHALL BE AS DIRECTED BY THE ARCHITECT IN THE FIELD. ALLOWANCE SHALL INCLUDE / ACCOUNT FOR ALLCOSTS FOR MATERIAL, FABRICATION, DELIVERY, ERECTION, ETC. ANY UNUSED PORTION OF THE 6.5 TONS OF STEEL SHALL BE CREDITED BACK TO THE OWNER AT $6,300.00 / TON.

   B. **CONCRETE ALLOWANCE:** PROVIDE AN ALLOWANCE FOR AN ADDITIONAL 123 CUBIC YARDS OF CONCRETE. SIZE OF MEMBERS AND USE OF MEMBERS SHALL BE AS DIRECTED BY THE ARCHITECT IN THE FIELD. ALLOWANCE SHALL INCLUDE / ACCOUNT FOR ALL COSTS FOR MATERIAL, FABRICATION, DELIVERY, LABOR FOR INSTALLATION/PLACEMENT, FORMWORK, ETC. REINFORCEMENT FOR CONCRETE SHALL ALSO BE INCLUDED AS PART OF THIS ALLOWANCE AND SHALL BE ASSUMED TO BE 2% MINIMUM BY VOLUME. ANY UNUSED PORTION OF THE 123 CUBIC YARDS SHALL BE CREDITED BACK TO THE OWNER AT $200.00 / CUBIC YARD.

2. FOUNDATION ALLOWANCE: PROVIDE AN ALLOWANCE FOR AN ADDITIONAL 50 CUBIC YARDS OF FLOWABLE FILL AND CONCRETE USED FOR UNFORESEEN FOUNDATION CONDITIONS. SIZE OF MEMBERS AND USE OF MEMBERS SHALL BE AS DIRECTED BY THE ARCHITECT IN THE FIELD. ALLOWANCE SHALL INCLUDE/ACCOUNT FOR ALL COSTS FOR MATERIAL, FABRICATION, DELIVERY, LABOR FOR INSTALLATION/ PLACEMENT, FORMWORK, ETC. REINFORCEMENT FOR CONCRETE SHALL ALSO BE INCLUDED AS PART OF THIS ALLOWANCE AND SHALL BE ASSUMED TO BE 2% MINIMUM BY VOLUME. ANY UNUSED PORTION OF THE 50 CUBIC YARDS SHALL BE CREDITED BACK TO THE OWNER AT $340.00 / CUBIC YARD.

3. CONTRACTOR SHALL PROVIDE IN HIS BID A UNIT PRICE ADD AND UNIT PRICE DEDUCT FOR EACH PIER SIZE UTILIZED ON THE PROJECT.

4. PIER CASING ALLOWANCE: THE PRICE FOR CASING OF PIERS SHALL BE INCLUDED WITHIN THE BASE BID FOR ALL DRILLED (BELLED) PIERS ON THE PROJECT. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR 100% CASING OF DRILLED PIERS. CONTRACTOR SHALL ALSO PROVIDE UNIT PRICE FOR EACH SIZE OF CASING UTILIZED ON THE PROJECT. PAYMENT FOR CASING SHALL BE BASED UPON NET LENGTH OF CASING UTILIZED MULTIPLIED BY THE UNIT PRICE.

5. WET WEATHER SITE CONDITIONS ALLOWANCE: THE CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR THE REMOVAL OFWET, WEAK SOIL AND REPLACE WITH SELECT FILL. PROPERLY COMPACTED SHOULD THE ON-SITE SOILS BECOME WET AND WEAK, AND UNABLE TO SUPPORT CONSTRUCTION EQUIPMENT AFTER OR DURING A RAINY SEASON OR RAIN EVENTS. REFER TO THE WET WEATHER / SOFT SUBGRADE CONSIDERATIONS (CONSTRUCTABILITY) NOTES ON S-013 – GENERAL SUBGRADE NOTES AND TYP DETAILS FOR MORE INFORMATION.

6. THE DRAWINGS AND SPECIFICATIONS MAY NOT INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE PERFORMANCE AND COMPLETION OF THE PROJECT. REFER TO IMPORTANT FOUNDATION / CONCRETE, MASONRY / CMU, AND STEEL NOTES TO PROPOSERS FOLLOWING THIS SECTION.

IMPORTANT NOTES TO CONTRACTORS & PROPOSERS:

FOUNDATION / CONCRETE:

1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL FOUNDATION / CONCRETE WORK WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.
2. WHERE FOUNDATION / CONCRETE ITEMS ARE IMPLIED OR INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF THESE ITEMS. THIS INCLUDES ANY FOUNDATION / CONCRETE ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS AND ANY ITEMS SHOWN ON THE STRUCTURAL DRAWINGS AND NOT NOTED. PROPOSERS SHALL ASSUME FOR PROPOSAL PURPOSES ONLY THE SIZE OF THESE ITEMS ARE AS FOLLOWS:

   A. GRADE BEAMS: GB2 (REFER TO GRADE BEAM SCHEDULE)
   B. PILASTER OR PLINTH: PILASTER MATCHING SIZE AND REINF. PER TYPICAL PILASTER DETAILS.
   C. SLAB-ON-GRADE: 5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH EITHER:
      - #3 BARS AT 10" OC EACH WAY ON 2 3/4" CHAIRS SPACED AT 36" OC EACH WAY, OR,
      - #4 BARS AT 16" OC EACH WAY ON 2 1/2" CHAIRS SPACED AT 36" OC EACH WAY.
      PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL, REFER TO SOIL REPORT.
      FOR SLAB JOINT DETAILS, REFER TO I/S-301.1 AND 2/S-301.1.
   D. STEM WALLS: 10" THICK WITH (2) LAYERS OF #5 BARS AT 12" OC EACH WAY, ONE LAYER ON EACH FACE WITH 3" CLEAR COVER.

   THE CONTRACTOR SHALL SUBMIT AN RFI AND THE ENGINEER SHALL APPROVE THE SIZE OF THE MEMBER BEFORE CONSTRUCTION OR FABRICATION.
3. THERE ARE NUMEROUS AREAS OF "EXTERIOR CONCRETE" THAT IS SHOWN BY STRUCTURAL. IN ALL CASES THIS CONCRETE IS INTENDED TO BE SUSPENDED WHETHER ADJACENT TO SLAB-ON-GRADE OR SUSPENDED SLAB AREAS. THE FINISH OF THIS CONCRETE SHALL FOLLOW DIRECTION FROM ARCHICIVIL. STRUCTURAL CANNOT DICTATE THE DIRECTION OF SLOPE OR FINISH OF THESE CONCRETE AREAS, IT IS THE GC'S SOLE RESPONSIBILITY TO COORDINATE WITH THE ARCH AND CIVIL DRAWINGS AND PROVIDE APPROPRIATE SLOPE DIRECTION, SLOPE AMOUNT, AND SURFACE FINISH TO MEET ALL REQUIREMENTS SET FOR IN ARCH AND CIVIL DRAWINGS, TYPICAL. GC SHALL ENSURE ALL STOREFRONTS, DOORS AND/OR OTHER OPENING INFILL ELEMENTS HAVE AN APPROVED WATERSTOP BELOW BETWEEN THE INFILL COMPONENT AND THE SLAB. THIS IS REQUIRED AT ALL AREAS BUT EXCEPTIONALLY CRITICAL AT THE AREAS WITH EXTERIOR STRUCTURAL SLAB.
4. UNLESS SPECIFICALLY DIRECTED OTHERWISE WITHIN THE STRUCTURAL CD'S OR SPECIFICATIONS, AT ALL SAW-CUT AND CONSTRUCTION JOINTS WITHIN CONCRETE SLABS-ON-GRADE THE GENERAL CONTRACTOR SHALL PROVIDE A SEMI-RIGID JOINT FILLER, EITHER MM80 OR EUCO 700 WITHIN EACH JOINT. THE JOINT FILLER MUST BE INSTALLED SOON AFTER CONCRETE SLAB INSTALLATION TO PREVENT SPALL AND BREAK-DOWN OF THE HARD CONCRETE EDGES OF THE SAW-CUTS AND CONSTRUCTION JOINTS UNDER THE CONSTRUCTION EQUIPMENT. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS FOR PROPER CLEANING AND PREP PRIOR TO INSTALL. THE FILLER MUST FILL THE FULL LENGTH AND FULL DEPTH OF THE JOINT. ONCE INSTALLED THE JOINT FILLER SHALL BE PROTECTED UNTIL THE BUILDING IS APPROVED FOR OCCUPANCY. IF THE CONTRACTOR DESIRES TO PROVIDE AN APPROVED EQUAL TO THE PRODUCTS SPECIFIED ABOVE OR WITHIN THE CONSTRUCTION DOCUMENTS THE GENERAL CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM THE STRUCTURAL EOR PRIOR TO ASSUMING COST WITHIN BID. UNTIL SUCH APPROVAL CAN BE PROVIDED THE GENERAL CONTRACTOR SHALL ACCOUNT FOR THE COST OF THE APPROVED PRODUCTS WITHIN THE CD'S AND / OR AS NOTED ABOVE.

MASONRY / CMU:

1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL MASONRY / CMU WORK WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.
2. IF A CMU WALL IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NO SUPPORT MEMBERS OR NOTES HAVE BEEN INDICATED WHERE SUPPORT AND NOTES HAVE BEEN PROVIDED FOR OTHER SIMILAR CONDITIONS THE GC SHALL ASSUME A LIKE FOR LIKE SUPPORT SYSTEM FOR SIMILAR HEIGHTS OF CMU. FOR EXAMPLE: IF A FULL HEIGHT WALL IS SHOWN ON ARCHITECTURAL IT SHALL BE ASSUMED THAT THE SAME STRUCTURAL SUPPORT WILL BE PROVIDED BELOW THIS WALL AS IS SHOWN FOR ALL FULL HEIGHT WALLS, THIS WOULD INCLUDE THE SAME TYPICAL GRADE BEAM, TYPICAL PIER, AND TYPICAL CMU REINFORCEMENT.
3. U.N.O. GC SHALL ASSUME ALL INTERIOR CMU WALLS, NOT BEING USED AS STRUCTURAL SHEARWALLS, WILL BE BRACED TO THE ABOVE STRUCTURE, ROOF OR FLOOR, PER 5/S-400 AND THAT WALLS ARE REINFORCED PER 2/S-401. U.N.O. GC SHALL ASSUME ALL EXTERIOR CMU WALLS AND ALL INTERIOR CMU WALLS BEING USED AS SHEARWALLS TO BE STRUCTURALLY CLIPPED TO THE FLOOR OR ROOF ABOVE PER 8/S-402 AND THAT ALL WALLS ARE REINFORCED PER 6/S-401.

STEEL:

1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL SECONDARY FRAMING WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.
2. WHERE MISCELLANEOUS METAL ITEMS ARE IMPLIED OR INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF THESE ITEMS. THIS INCLUDES ANY MISCELLANEOUS METAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS AND ANY ITEMS SHOWN ON THE STRUCTURAL DRAWINGS AND NOT NOTED. PROPOSERS SHALL ASSUME FOR PROPOSAL PURPOSES ONLY THE SIZE OF THESE ITEMS ARE AS FOLLOWS:

   A. ANGLES: L6X6X3/8
   B. CHANNELS: C12X20.7
   C. PLATES: 1/2" THICK
   D. ANCHOR RODS: 1 1/2" DIAMETER X 18" LONG
   E. EPOXY ANCHORS: 3/4" DIAMETER AT 48" OC MAX SPACING
   F. WIDE FLANGE BEAMS: W24X55

GENERAL NOTES

S-012

FOR BLUEBEAM LABELING:

0"

1"

STRUCTURAL SUBMITTALS (NO LEEDS)

SPECIFICATION SECTION	ITEM	SUBMITTAL
02 41 19	PROPOSED PROTECTION MEASURES	FOR INFORMATION ONLY
02 41 19	SCHEDULE OF SELECTIVE DEMOLITION ACTIVIES	FOR INFORMATION ONLY
02 41 19	PREDEMOLITION PHOTOGRAPHS OR VIDEOS	FOR INFORMATION ONLY
02 41 19	DEMOLITION SUBCONTRACTOR QUALIFICATIONS	FOR INFORMATION ONLY
03 10 00	FORMWORK SHOP DRAWINGS	FOR INFORMATION ONLY/SIGNED AND SEALED
03 10 00	MANUFACTURER'S PRODUCT DATA FOR APPROVAL	FOR APPROVAL
03 10 00	CONSTRUCTION JOINT LAYOUT	FOR INFORMATION ONLY
03 11 31	VOID FORM PRODUCT DATA	FOR APPROVAL
03 20 00	STEEL REINFORCING SHOP DRAWINGS	FOR APPROVAL
03 20 00	EMBEDDED METAL ASSEMBLY SHOP DRAWINGS	FOR APPROVAL
03 20 00	MANUFACTURER'S PRODUCT INFORMATION FOR BAR SUPPORTS	FOR APPROVAL
03 20 00	MILL TEST CERTIFICATE OF STEEL REINFORCING	FOR INFORMATION ONLY
03 20 00	QUALIFICATION DATA	FOR INFORMATION ONLY
03 20 00	WELDING CERTIFICATES	FOR INFORMATION ONLY
03 30 00	CONCRETE MIX DESIGN	FOR APPROVAL
03 30 00	SLAB ON GRADE AND COMPOSITE SLAB CONSTRUCTION JOINT LAYOUT AND POUR SEQUENCE	FOR APPROVAL
03 30 00	MATERIAL CERTIFICATES FOR CONCRETE RELATED PRODUCTS	FOR APPROVAL
03 30 00	PRODUCT DATA	FOR INFORMATION ONLY
03 30 00	QUALIFICATION DATA	FOR INFORMATION ONLY
03 30 00	MATERIAL TEST REPORTS	FOR INFORMATION ONLY
03 30 00	FLOOR SURFACE FLATNESS	FOR INFORMATION ONLY
03 30 00	FIELD QUALITY CONTROL REPORTS	FOR INFORMATION ONLY
03 30 00	MINUTES OF PREINSTALLATION CONFERENCE	FOR INFORMATION ONLY
03 52 16	LIGHTWEIGHT INSULATING CONCRETE SHOP DRAWINGS	FOR APPROVAL
03 52 16	MANUFACTURERS PRS AS PRODUCT DATA	FOR APPROVAL
03 52 16	LIGHTWEIGHT CONCRETE MIX DESIGN	FOR APPROVAL
03 52 16	PRODUCT CERTIFICATES	FOR INFORMATION ONLY
03 52 16	MATERIAL TEST REPORTS	FOR INFORMATION ONLY
03 52 16	RESEARCH EVALUATION REPORT	FOR INFORMATION ONLY
03 52 16	FIELD QUALITY CONTROL TEST	FOR INFORMATION ONLY
04 22 00	CMU WALL SHOP DRAWINGS	FOR APPROVAL
04 22 00	MIX DESIGN (MORTAR AND GROUT)	FOR APPROVAL
04 22 00	MASONRY COMPRESSIVE STRENGTH	FOR APPROVAL
04 22 00	SAMPLES FOR SELECTION AND VERIFICATION	FOR APPROVAL
04 22 00	MATERIAL CERTIFICATES	FOR INFORMATION ONLY
04 22 00	COLD/HOT WEATHER PROCEDURES	FOR INFORMATION ONLY
04 22 00	QUALIFICATION DATA	FOR INFORMATION ONLY
05 12 00	STRUCTURAL STEEL FRAMING SHOP DRAWINGS	FOR APPROVAL
05 12 00	STEEL CONNECTION CALCULATIONS	FOR INFORMATION ONLY/ SIGNED AND SEALED
05 12 00	WELDING PROCEDURE SPECIFICATION	FOR INFORMATION ONLY
05 12 00	WELDING CERTIFICATES	FOR INFORMATION ONLY
05 12 00	MILL TEST CERTIFICATE OF STRUCTURAL STEEL	FOR INFORMATION ONLY
05 12 00	PAINT COMPATIBILITY CERTIFICATE	FOR INFORMATION ONLY
05 12 00	QUALIFICATION DATA	FOR INFORMATION ONLY
05 21 00	STEEL JOIST FRAMING SHOP DRAWINGS	FOR APPROVAL
05 21 00	WELDING CERTIFICATES	FOR INFORMATION ONLY
05 21 00	MILL CERTIFICATES	FOR INFORMATION ONLY
05 21 00	ENGINEERING ANALYSIS OF SPECIAL JOISTS	FOR INFORMATION ONLY/ SIGNED AND SEALED
05 21 00	ENGINEERING ANALYSIS OF COMPOSITE JOISTS	FOR APPROVAL/ SIGNED AND SEALED
05 21 00	PRODUCT DATA	FOR INFORMATION ONLY
05 31 13	STEEL FLOOR DECK SHOP DRAWINGS	FOR APPROVAL
05 31 13	PRODUCT CERTIFICATE	FOR INFORMATION ONLY
05 31 13	PRODUCT TEST REPORT	FOR INFORMATION ONLY
05 31 23	STEEL ROOF DECK SHOP DRAWINGS	FOR APPROVAL
05 31 23	PRODUCT CERTIFICATE	FOR INFORMATION ONLY
05 31 23	PRODUCT TEST REPORT	FOR INFORMATION ONLY
05 40 00	COLD FORMED METAL STUD SHOP DRAWINGS	FOR APPROVAL
05 40 00	COLD FORMED METAL STUD CALCULATIONS	FOR INFORMATION OLY/ SIGNED AND SEALED
05 40 00	PRODUCT TEST REPORT	FOR INFORMATION ONLY
05 40 00	RESEARCH REPORT	FOR INFORMATION ONLY
05 40 00	WELDING CERTIFICATE	FOR INFORMATION ONLY
05 50 00	METAL FABRICATION-LADDERS	FOR APPROVAL/ SIGNED AND SEALED
05 50 00	METAL FABRICATION-TOILET PARTITION SUPPORT	FOR APPROVAL/ SIGNED AND SEALED
06 10 00	PRODUCT DATA	FOR INFORMATION ONLY
06 10 00	FASTENER PATTERNS	FOR APPROVAL
06 10 00	MATERIAL CERTIFICATES	FOR INFORMATION ONLY
06 10 00	EVALUATION REPORTS	FOR INFORMATION ONLY
13 34 19	PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS	FOR APPROVAL/ SIGNED AND SEALED
13 34 19	PRE-ENGINEERED METAL BUILDING CALCULATIONS	SIGNED AND SEALED
13 34 19	METAL BUILDING SYSTEM CERTIFICATE	FOR INFORMATION ONLY
13 34 19	ERECTOR CERTIFICATE	FOR INFORMATION ONLY
13 34 19	MANUFACTURER CERTIFICATE	FOR INFORMATION ONLY
13 34 19	MATERIAL TEST REPORTS	FOR INFORMATION ONLY
13 34 19	PRODUCT TEST REPORTS	FOR INFORMATION ONLY
31 63 29	PIER REINFORCEMENT SHOP DRAWINGS	FOR APPROVAL
31 63 29	PIER CONCRETE MIX DESIGN	FOR APPROVAL
31 63 29	PIER DRILLING LOG	FOR INFORMATION ONLY

DELEGATED STRUCTURAL DESIGN OF COMPONENTS:

1. A STRUCTURAL COMPONENT IS AN INDIVIDUAL STRUCTURAL MEMBER DESIGNED TO BE PART OF A STRUCTURAL SYSTEM. A LIST OF STRUCTURAL COMPONENTS THAT ARE TO BE DESIGNED BY THE COMPONENT SUPPLIER'S ENGINEERS IS PROVIDED IN THESE PLANS AND SPECIFICATIONS.
2. A COMPONENT'S DELEGATED ENGINEER AND RESPONSIBLE CHARGE, SHALL BE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
3. ALL DRAWINGS AND CALCULATIONS FOR COMPONENTS IN QUESTION, OR THEIR ASSEMBLY INTO STRUCTURAL SYSTEMS SHALL REQUIRE THE SEAL AND SIGNATURE OF THE DELEGATED ENGINEER WHO PREPARED THEM.
4. THE DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS WHICH ARE DESIGNED/ENGINEERED BY THE SYSTEM SUPPLIER IS THE SOLE RESPONSIBILITY OF THE SUPPLIER AND ITS DESIGN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS OF SUCH SYSTEMS TO THE STRUCTURAL ENGINEER OF RECORD SHALL BE REVIEWED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT AND/OR SIZES OF MEMBERS SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS AND THE SUPPLIERS INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED IN CONTRACT DOCUMENTS.
5. SEE APPLICABLE SECTIONS OF GENERAL NOTES AND SPECIFICATIONS FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND ITS LICENSED ENGINEER.

SPECIAL INSPECTIONS:

SPECIAL INSPECTION WORK AND THE FINAL LETTER OF COMPLIANCE HAVE NOT BEEN INCLUDED IN THE STRUCTURAL ENGINEERS SCOPE OF SERVICES. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING THE SERVICES OF THE SPECIAL INSPECTOR AND THE TESTING LABORATORY. SPECIAL INSPECTIONS CAN BE PROVIDED BY AN INDEPENDENT SPECIAL INSPECTOR WHO IS APPROVED BY THE BUILDING AUTHORITY OR THE ENGINEER OF RECORD. THE SPECIAL INSPECTION WORK DOES NOT INCLUDE THE TESTING LABORATORY SERVICES AS CALLED FOR ON THE DRAWINGS. ARRANGEMENTS FOR SPECIAL INSPECTIONS SHOULD BE MADE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER IF SPECIAL INSPECTIONS ARE REQUIRED ON THE APPROVED PERMIT DRAWINGS AND FOR NOTIFYING THE TESTING LABORATORY AND SPECIAL INSPECTOR IN A TIMELY MANNER BEFORE CONSTRUCTION OPERATIONS CONTINUE. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING INSPECTIONS WITHOUT THE TESTING LABORATORY'S OR SPECIAL INSPECTOR'S PRESENCE. THE STRUCTURAL ENGINEER WILL NOT PROVIDE A FINAL LETTER OF COMPLIANCE AFTER THE WORK IS COMPLETE UNLESS HE HAS REVIEWED ALL SPECIAL INSPECTIONS/TESTING LABORATORY TEST RESULTS.

CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE, INCLUDING ANY LOCAL AMENDMENTS, REQUIRES SPECIAL INSPECTION ON THE FOLLOWING ITEMS:

SOILS (SECTION 1705.6)

CONCRETE CONSTRUCTION (SECTION 1705.3)

STEEL (SECTION 1705.2)

MASONRY (SECTION 1705.4)

CAST-IN-PLACE DEEP FOUNDATIONS (SECTION1705.8)

FABRICATED ITEMS (SECTION 1705.10)

SPECIAL INSPECTIONS FOR WIND RESISTANCE (SECTION 1705.11)

SHOP DRAWINGS:

1. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. THE STRUCTURAL DRAWINGS ARE NOT TO BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE COMPONENTS OF THE STRUCTURE SHALL BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ESTABLISH, CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
2. THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHALL CERTIFY THE REVIEW BY A STAMP NOTING THAT THE SUBMITTAL HAS BEEN "APPROVED" AND WHICH BEARS THE SIGNATURE OF AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND THE DATE. SUBMITTALS WHICH DO NOT REFLECT THE CONTRACTOR'S APPROVAL, SIGNATURE AND DATE; OR DO NOT APPEAR TO HAVE BEEN REVIEWED BY THE CONTRACTOR, WILL BE RETURNED WITHOUT REVIEW.
3. THE REVIEW OF SUBMITTALS BY THE ENGINEER IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE STRUCTURAL CONTRACT DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON SUBMITTALS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS, GENERAL NOTES OR SPECIFICATIONS. APPROVAL OF A SPECIFIC ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.
4. SIGNED AND SEALED CALCULATIONS FOR A PARTICULAR SYSTEM SUBMITTED AS PART OF A SHOP DRAWING ARE REVIEWED FOR LOAD CRITERIA AND GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. CALCULATION REVIEW AND COMMENTS DO NOT INFER A DETAILED CHECK OF THE CALCULATIONS, NOR DO THEY RELIEVE THE SYSTEM ENGINEER OR THE CONTRACTOR OF RESPONSIBILITY.
5. THE USE OF REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS FOR THE PREPARATION OF SHOP DRAWINGS IS NOT ACCEPTABLE WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD. ALTERATION OF A SEALED DOCUMENTS WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE OF THE ENGINEERING PRACTICE ACT.
   A. IF SUCH AUTHORIZATION IS OBTAINED, DO NOT SUBMIT SHOP DRAWINGS WITH THE CONTRACT DOCUMENT TITLE BLOCK AND/OR THE SEAL OF THE REGISTERED ENGINEER OF RECORD AFFIXED.
   B. COSTS FOR PREPARATION OF STRUCTURAL SHOP DRAWINGS SHALL BE INCLUDED IN THE BID PRICE ASSUMING THAT REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS WILL NOT BE AVAILABLE.
6. OMISSION FROM THE SHOP DRAWINGS OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH THE OMITTED REQUIREMENTS, EVEN IF THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
7. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTION OF INADEQUATE OR INCORRECT SHOP DRAWINGS, AND THIS RESPONSIBILITY SHALL LIE SOLELY WITH THE CONTRACTOR.
8. SHOP DRAWINGS THAT ARE NOT SPECIFICALLY REQUIRED BY THE GENERAL NOTES OR SPECIFICATIONS WILL NOT BE REVIEWED OR RETURNED.
9. COMPLY WITH THE SUBMITTAL PROCEDURES ESTABLISHED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. AS A MINIMUM, PREPARE AND SUBMIT A STRUCTURAL SUBMITTAL SCHEDULE IN CHRONOLOGICAL ORDER OF SUBMITTALS PRIOR TO THE BEGINNING OF THE STRUCTURAL SUBMITTAL PROCESS.

ISSUE FOR PROPOSAL

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Arnold Middle School

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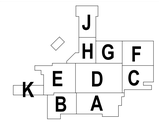
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN



NORTH: PLAN TRUE

DISCIPLINE

Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

GENERAL NOTES

S-012

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/ST23_220023_CFISD_Arnold MS.rvt

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2/17/2025 9:22:55 AM

S-013
GENERAL SUBGRADE NOTES AND TYPICAL DETAILS
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL FOUNDATION NOTES:

1. THE FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT AS FOLLOWS:
   GEOTECHNICAL CONSULTANT: RABA KISTNER, INC.
   GEOTECHNICAL REPORT NUMBER: AHA24-053-00
   GEOTECHNICAL REPORT LOCATION: 11111 TELGE ROAD, CYPRESS, TX 77429
   DATE OF REPORT: JANUARY 9, 2025
2. ALL RECOMMENDATIONS THEREIN THAT RELATE TO THE WORK SHOWN ON THESE DRAWINGS SHALL BE USED. FOR ANY CONFLICTS BETWEEN THE GEOTECHNICAL REPORT AND THESE DRAWINGS, THE GC SHALL ISSUE A REQUEST FOR INFORMATION/CLARIFICATION.
3. GEOTECHNICAL REPORT IS AVAILABLE TO THE GENERAL CONTRACTOR UPON REQUEST TO THE OWNER. THE INFORMATION INCLUDED THEREIN MAY BE USED BY THE GENERAL CONTRACTOR FOR HIS GENERAL INFORMATION ONLY. THE ARCHITECT AND ENGINEER WILL NOT BE RESPONSIBLE FOR THE ACCURACY OR APPLICABILITY OF SUCH DATA THEREIN.
4. PREPARED GRADE AREA UNDER ALL BUILDING SLABS AND GRADE BEAMS SHALL BE COVERED WITH A 15 MIL WATER VAPOR BARRIER MEETING THE REQUIREMENTS OF ASTM E 1745 (LATEST EDITION), CLASS A OR BETTER WITH MAXIMUM WATER PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE BARRIER SHALL BE INSTALLED AND LAPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E1643 (LATEST EDITION). PENETRATIONS SHALL BE SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

EARTHWORK STRUCTURAL TESTING AND INSPECTIONS:

1. UNLESS NOTED OTHERWISE BY THE OWNER OR ARCHITECT, THE GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR DURING EARTHWORK OPERATIONS, AND KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT ON SITE DURING OPERATIONS. SERVICES PROVIDED SHALL INCLUDE:
   A. OBSERVE STRIPPING OPERATIONS AND EVALUATE THE REQUIRED STRIPPING DEPTH DURING THESE OPERATIONS.
   B. OBSERVE PROOFROLLING OPERATIONS AFTER SITE STRIPPING AND DETERMINE IF ANY SOFT SPOTS NEED TO BE UNDERCUT TO FIRM SOILS, REPLACED WITH SELECT FILL AND RECOMPACTED.
   C. VERIFY THAT THE SUBGRADE IS SCARIFIED, MOISTURE CONDITIONED, AND LIME STABILIZED (IF REQUIRED) PER SUBGRADE PREPARATION.
   D. THE SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED. SELECT FILL MATERIAL SHALL BE AS INDICATED ON SUBGRADE PREPARATION.
   E. VERIFY THAT THE SELECT FILL IS PLACED IN EIGHT INCH LOOSE LIFTS AND COMPACTED PER SUBGRADE PREPARATION.
   F. SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE TESTS PER SUBGRADE PREPARATION.
   G. PROVIDE FIELD MOISTURE TESTS FOR THE FULL DEPTH OF THE PAD PER SUBGRADE PREPARATION.
   H. OBSERVE THE EXCAVATION DAILY AND ENSURE THAT THE CONTRACTOR MAINTAINS A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE WATER AT ALL TIMES.
   J. OBSERVE GRADING OPERATIONS TO ENSURE THAT PROPER DRAINAGE AWAY FROM THE BUILDING PAD IS PROVIDED.

SUBGRADE PREPARATION:

1. THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. ALL SUBGRADE PREPARATION, FILL, FILL PLACEMENT, AND FOUNDATION CONSTRUCTION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE STRUCTURAL DOCUMENTS AND THE GEOTECHNICAL REPORT, AND SHALL BE OBSERVED, TESTED, AND APPROVED BY THE PROJECT'S GEOTECHNICAL-ENGINEER-OF-RECORD (GER) PRIOR TO PROCEEDING WITH FOUNDATION CONSTRUCTION.
2. SITE PREPARATION FOR THE BUILDING PAD SHALL CONSIST OF THE REMOVAL OF EXISTING PAVEMENT, TOPSOIL, VEGETATION, ORGANIC MATTER, AND OTHER DEBRIS/UNSUITABLE SURFACE MATERIAL AS NECESSARY TO PROVIDE THE REQUIRED AMOUNT OF FILL UNDER THE BUILDING AND EXTENDING OUT BEYOND THE PERIMETER OF THE BUILDING AS SHOWN IN THE SITE PREPARATION DETAIL. PROPER SITE DRAINAGE SHOULD BE MAINTAINED DURING CONSTRUCTION SO THAT PONDING OF SURFACE RUNOFF DOES NOT OCCUR AND CAUSE CONSTRUCTION DELAYS AND/OR INHIBIT SITE ACCESS.
3. THE SUBGRADE SHALL BE PROOFROLLED WITH A HEAVY, RUBBER-TIRED VEHICLE (STATIC WEIGHT OF AT LEAST 20 TONS AND WITH TIRE PRESSURES OF AT LEAST 90 PSI). THE CONTRACTOR SHALL MAKE AT LEAST FIVE (5) COMPLETE PASSES OVER THE AREA WITH THE SECOND PASS PERPENDICULAR TO THE FIRST PASS. AREAS OF THE SUBGRADE THAT ARE OBSERVED TO BE SOFT OR WEAK SHALL BE OVEREXCAVATED AND REPLACED WITH PROPERLY COMPACTED SOILS EXHIBITING SIMILAR CLASSIFICATION, MOISTURE CONTENT, AND DENSITY AS THE ADJACENT IN-SITU SOILS. PROOFROLLING SHOULD BE PERFORMED UNDER THE DIRECT OBSERVATION OF THE GEOTECHNICAL ENGINEER OR HIS/HER REPRESENTATIVE.
4. PREPARE THE BUILDING SUBGRADE SOILS IN DIRECT ACCORDANCE WITH THE RECOMMENDATIONS LISTED IN THE "EARTHWORK" AND "FLOOR SLABS" SECTIONS OF THE GEOTECHNICAL REPORT.
   A. UPON COMPLETION OF THE PROOFROLLING OPERATIONS AND JUST PRIOR TO FILL PLACEMENT OR SLAB CONSTRUCTION, THE EXPOSED SUBGRADE SHALL BE SCARIFIED AND MOISTURE CONDITIONED TO A DEPTH OF EIGHT (8) INCHES AND THEN RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE MAINTAINED BETWEEN OPTIMUM AND +2 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
5. A MINIMUM OF 1 FT OF SELECT FILL MATERIAL IS REQUIRED UNDER THE FLOOR SLAB, AND SHALL EXTEND A MINIMUM OF 10'-0" BEYOND THE BUILDING PERIMETER. THE FINAL EXTERIOR GRADE ADJACENT TO THE STRUCTURE SHOULD BE SLOPED TO PROMOTE EFFECTIVE DRAINAGE AWAY FROM THE STRUCTURE.
   A. SELECT FILL MATERIALS SHALL HAVE A MAXIMUM LIQUID LIMIT NOT EXCEEDING 40 PERCENT, A PLASTICITY INDEX BETWEEN 7 AND 20 PERCENT, AND A MAXIMUM PARTICAL SIZE NOT EXCEEDING FOUR (4) INCHES OR ONE-HALF (1/2) THE LOOSE LIFT THICKNESS, WHICHEVER IS SMALLER. IN ADDITION, IF THESE MATERIALS ARE UTILIZED, GRAIN SIZE ANALYSES AND ATTERBERG LIMITS MUST BE PERFORMED DURING PLACEMENT AT A MINIMUM OF ONE TEST EACH PER 5,000 CUBIC YARDS OF MATERIAL. SELECT FILL SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING EIGHT (8) INCHES IN THICKNESS AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY. THE MOISTURE CONTENT OF THE FILL SHOULD BE MAINTAINED BETWEEN OPTIMUM AND +2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET, WHICHEVER IS GREATER.
   B. IF WET WEATHER CONDITIONS ARE ENCOUNTERED AND WILL NOT ALLOW FOR ADEQUATE SUBGRADE COMPACTION EFFORTS, THEN THE SUBGRADE SHALL BE LIME STABILIZED WITH 6 TO 8 PERCENT BY VOLUME HYDRATED LIME IN ACCORDANCE WITHTHE LIME ASSOCIATION RECOMMENDATIONS. THE OPTIMUM LIME CONTENT SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION BY A LIME SERIES TEST TO DETERMINE THE REQUIRED OPTIMUM LIME CONTENT NECESSARY TO ACHIEVE A pH OF 12.4 WHILE ACHIEVING A PLASTICITY INDEX OF LESS THAN 20. PRIOR TO PROCEEDING WITH THE SELECT FILL PLACEMENT, THE LIME STABILIZED SUBGRADE SHALL BE TESTED AND APPROVED BY THE TESTING LABORATORY.
6. THE FINAL BUILDING PAD SHALL BE TESTED AND APPROVED BY THE PROJECT'S GER PRIOR TO INSTALLATION OF ANY FOUNDATION AND/OR SLAB-ON-GRADE RELATED CONSTRUCTION. IF THE BUILDING PAD HAS BEEN INSTALLED MORE THAN TWO MONTHS PRIOR TO THE PLACEMENT OF THE VAPOR BARRIER, PROVIDE FIELD MOISTURE TESTS FOR THE FULL DEPTH OF THE PAD 96 HOURS PRIOR TO PLACEMENT OF THE WATER VAPOR BARRIER TO ENSURE THAT THE FILL MOISTURE CONTENT HAS BEEN MAINTAINED PRIOR TO CONCRETE PLACEMENT. MOISTURE CONTENTS SHALL BE TAKEN AT 12 INCH VERTICAL INTERVALS WITH A MINIMUM OF TWO (2) TESTS PER BORING AT A RATE OF ONE (1) BORING FOR EVERY 2,500 SQUARE FEET OF PAD WITH A MAXIMUM OF TEN (10). IF THE PAD TESTS SHOW MOISTURE CONTENT OUT OF THE SPECIFIED RANGES, THE TOP SIX (6) INCHES TO ONE FOOT OF MATERIAL SHALL BE REWORKED, MOISTURE CONDITIONED AND RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +2 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL.
7. CONTRACTOR SHALL MAINTAIN A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.
8. BACKFILL AGAINST THE OUTSIDE FACE OF THE GRADE BEAMS SHOULD CONSIST OF SELECT FILL USED TO PREPARE THE BUILDING PAD. THE SELECT FILL SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD EFFORT (ASTM D 698) MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT.
9. EXERCISE CARE IN PLACEMENT AND COMPACTION OF FILL IN ALL LEAVE-OUTS. ALL FILL SHALL BE PLACED IN LOOSE LIFTS AND COMPACTED AT ELEVATED MOISTURE CONTENT AS DETAILED IN THE PROJECT'S GEOTECHNICAL REPORT. ANY REINFORCING SHALL BE APPROPRIATELY MANIPULATED TO ENSURE PROPER COMPACTION. VAPOR BARRIER SHALL BE SUITABLY PLACED AND LAPPED.
10. EXCAVATIONS TO REMOVE UNSUITABLE SOILS AND INSTALL NEW FOUNDATIONS MAY EXTEND NEAR OR BELOW EXISTING FOUNDATION GRADES. TO REDUCE THE RISK OF UNDERMINING THE EXISTING FOUNDATIONS, WE RECOMMEND SOIL CORRECTIONS AND OTHER EXCAVATIONS WITHIN FIVE (5) FEET HORIZONTALLY OF THE EXISTING FOUNDATION ONLY EXTEND DOWN TO THE BOTTOM OF THE EXISTING FOUNDATION. BEGINNING 2 FEET HORIZONTALLY AWAY, SOIL CORRECTIONS SHOULD BE PERFORMED AT 1H:1V DOWN AND AWAY FROM THE EXISTING FOUNDATION. AFTER REACHING THE DESIGN DEPTH, A GEOTECHNICAL REPRESENTATIVE SHOULD OVSERVE THE EXCAVATION BOTTOM TO EVALUATE THE SUITABILITY OF THE SOILS NEAR THE EXISTING FOUNDATION FOR SUPPORT OF THE NEW FLOOR SLABS AND FOUNDATIONS. WE RECOMMEND CONTACTING THE GEOTECHNICAL ENGINEER IF EXCAVATIONS NEED TO EXTEND BEYOND THE LIMITS DESCRIBED ABOVE, AS ADDITIONAL IMPROVEMENTS SUCH AS GROUND IMPROVEMENT, RETENTION OR UNDERPINNING MAY BE WARRANTED.
11. DURING CONSTRUCTION, THE CONTRACTOR SHOULD MONITOR THE EXCAVATION SLOPE AND EXISTING STRUCTURE FOR MOVEMENT. WE ALSO RECOMMEND PROTECTING THE SLOPE FROM DISTURBANCE, SUCH AS PRECIPITATION, RUNOFF, OR SLOUGHING. THE PROJECT TEAM SHOULD ESTABLISH THRESHOLD LIMITS OF MOVEMENT AND REQUIRED ACTION IF THE MOVEMENT EXCEEDS THE LIMITS.
12. SHALLOW FOUNDATION EXAVATIONS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE PRIOR TO PLACEMENT OF REINFORCING STEEL AND CONCRETE. THIS IS NECESSARY TO DOCUMENT THAT THE BEARING SOILS AT THE BOTTOM OF THE EXCAVATIONS ARE SIMILAR TO THOSE ENCOUNTERED IN THE BORINGS AND THAT EXCESSIVE SOFT / LOOSE MATERIALS AND WATER ARE NOT PRESENT IN THE EXCAVATIONS. IF SOFT / LOOSE POCKETS OF SOIL ARE ENCOUNTERED IN THE FOUNDATION EXCAVATIONS, THE SHOULD BE REMOVED AND REPLACED WITH A COMPACTED NON-EXPANSIVE FILL MATERIAL OR LEAN CONCRETE UP TO THE DESIGN FOUNDATION BEARING ELEVATIONS.
13. GRANULAR SOILS WERE ENCOUNTERED IN THE SURFICIAL SOILDS DURING THE FIELD EXPLORATION PHASE OF THIS PROJECT. THESE SOILS ARE SUSCEPTIBLE TO PERCHED WATER CONDITIONS, PARTICULARLY DURING AND IMMEDIATELY FOLLOWING RAINFALL EVENTS. ADDITIONALLY, THESE SOILS ARE SUSCEPTIBLE TO COLLAPSING DUE TO DISTURBANCE AND SHOULD BE PROPERLY SLOPED, BENCHED, AND / OR SUPPORTED WHILE PERFORMING EXCAVATIONS.

SITE DRAINAGE CONSIDERATIONS:

1. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND SLABS. WATER SHALL NOT BE ALLOWED TO POND ADJACENT TO THE FOUNDATION. CONSTRUCT FINAL SURFACE DRAINAGE PATTERNS TO PREVENT PONDING AND LIMIT SURFACE WATER INFILTRATION AT AND AROUND THE BUILDING PERIMETER. FAILURE TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES CAN RESULT IN LOCALIZED DIFFERENTIAL VERTICAL MOVEMENTS IN SOIL SUPPORTED FOUNDATIONS AND FLOOR SLABS.
2. WATER FROM ROOF DRAINS AND DOWNSPOUTS SHALL BE COLLECTED AND PIPED AWAY FROM THE BUILDING. LOCATE THE WATER-BEARING UTILITIES, ROOF DRAINAGE OUTLETS AND IRRIGATION SPRAY HEADS OUTSIDE OF THE SELECT FILL AND PERIMETER DRAIN BOUNDARIES. WHERE A SELECT FILL OVERBUILD IS PROVIDED OUTSIDE OF THE FLOOR SLAB / FOUNDATION FOOTPRINT, THE SURFACE SHOULD BE SEALED WITH AN IMPERMEABLE LAYER (PAVEMENT OR CLAY CAP) TO REDUCE THE INFILTRATION OF BOTH IRRIGATION AND SURFACE WATERS. ALL LEAKS SHOULD BE IMMEDIATELY REPAIRED.
3. TREES AND VEGETATION SHALL NOT BE ALLOWED WITHIN A DISTANCE EQUAL TO THREE QUARTERS THEIR ULTIMATE HEIGHT AWAY FROM THE BUILDING. VEGETATION, IF ANY, REQUIRING LARGE AMOUNTS OF WATER SHALL BE KEPT AWAY FROM STRUCTURES.
4. SLOPE THE TOP OF THE SUBGRADE BEYOND THE BUILDING PERIMETER.
5. SLOPE THE SURFACE OF THE FILL DURING CONSTRUCTION TO PROMOTE RUNOFF OF RAINWATER TO DRAINAGE FEATURES UNTIL THE FINAL LIFT IS PLACED.
6. SLOPE THE FINAL, WELL MAINTAINED, IMPERVIOUS CLAY OR PAVEMENT SURFACE (DOWNWARD AWAY FROM THE BUILDING) OVER THE SELECT FILL MATERIAL AND ANY PERIMETER DRAIN EXTENDING BEYOND THE BUILDING LINES. REFER TO CIVIL AND THE "DRAINAGE CONSIDERATIONS" SECTION OF THE GEOTECHNICAL REPORT.

WET WEATHER / SOFT SUBGRADE CONSIDERATIONS (CONSTRUCTABILITY):

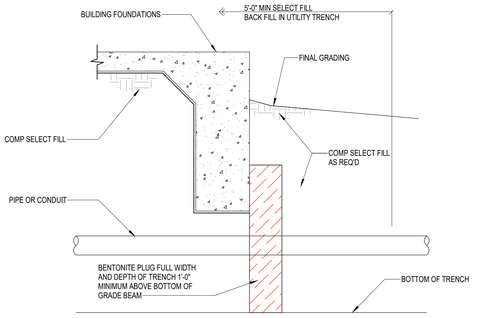
DUE TO THE ELEVATED SILT AND SAND CONTENT AND LOW PLASTICITY OF THE SURFICIAL SOILS OBSERVED AT THIS SITE, PROPER COMPACTION MAY BE DIFFICULT TO ACHIEVE. IN ADDITION, CONSTRUCTION DURING AND SOON AFTER WET WEATHER PERIODS MAY ENCOUNTER DIFFICULTIES DUE TO WET AND SOFT SURFICIAL SOILS BECOMING A GENERAL HINDRANCE TO EQUIPMENT AS A RESULT OF RUTTING AND / OR PUMPING OF THE SOIL SURFACE. THIS CONDITION IS PRIMARILY DUE TO THEIR LACK OF COHESION (LOW CLAY CONTENT) AND LITTLE TO NO CONFINING PRESSURE NEAR THE GROUND SURFACE. IF THE SUBGRADE CANNOT BE ADEQUATELY COMPACTED TO THE MINIMUM DENSITIES AS DESCRIBED ABOVE, THE WET, WEAK SOILS CAN BE IMPROVED BY REMOVAL AND REPLACED WITH PROPERLY COMPACTED SELECT FILL OR DRYING BY NATURAL MEANS IF THE SCHEDULE ALLOWS. PLEASE BE AWARE THAT DRAINAGE TRENCHES WITHIN THE SOILS TO BE EXCAVATED, REWORKED AND / OR RECOMPACTED MAY BE REQUIRED.

DISTURBANCE FROM FOOT TRAFFIC AND FROM THE ACCUMULATION OF EXCESS WATER AN RESULT IN LOSSES IN BEARING CAPACITY AND INCREASED SETTLEMENT. IF INCLEMENT WEATHER IS ANTICIPATED AT THE TIME OF CONSTRUCTION, CONSIDERATION SHOULD BE GIVEN TO PROTECTING THE BOTTOMS OF EXCAVATIONS AND BEAM TRENCHES BY PLACING A THIN MUD MAT (LAYER OF FLOWABLE FILL OR LEAN CONCRETE) AT THE BOTTOM OF EXCAVATIONS / TRENCHES IMMEDIATELY FOLLOWING EXCAVATION. THIS WILL REDUCE DISTURBANCE FROM FOOT TRAFFIC AND WILL IMPEDE THE INFILTRATION OF SURFACE WATER. ALL NECESSARY PRECAUTIONS SHOULD BE IMPLEMENTED TO PROTECT OPEN EXCAVATIONS FROM THE ACCUMULATION OF SURFACE WATER RUNOFF AND RAIN.

BASED ON KUBALA ENGINEER'S PAST EXPERIENCE, CHEMICAL TREATMENT OF THE SOIL (LIME STABILIZATION) IS INEFFECTIVE IN IMPROVING SILTY SOILS DUE TO THEIR LACK OF COHESION (LOW CLAY CONTENT). THEREFORE, THE CONTRACTOR SHALL PROVIDE AN OVERALL ALLOWANCE AND A UNIT PRICE FOR THE REMOVAL OF WET WEAK SOIL AND REPLACEMENT WITH PROPERLY COMPACTED SELECT FILL. REFER TO SPEC SECTIONS '01 21 00 - ALLOWANCES' AND '01 22 00 - UNIT PRICES.'

NOTES:

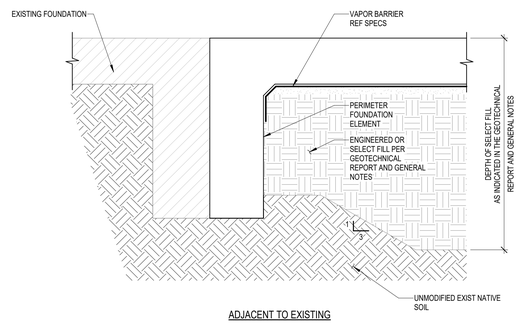
1. PIPES OR CONDUITS SHALL BE PLACED IN THE SELECT FILL MATERIAL. ALL PENETRATIONS TO THE VAPOR BARRIER SHALL BE SEALED PER THE MANUFACTURER'S RECOMMENDATIONS
2. BACKFILL DIRECTLY AROUND PIPE SHALL BE CEMENT STABILIZED SAND (1-SACK MIX). THE REMAINDER OF THE TRENCH INFILL MAY BE SELECT FILL ONLY IF IT CAN BE COMPACTED AND TESTED BY THE TESTING LAB; OTHERWISE, THE GC SHALL USE CEMENT STABILIZED SAND



1 PIPE/CONDUIT ENTRY DETAIL
NO SCALE

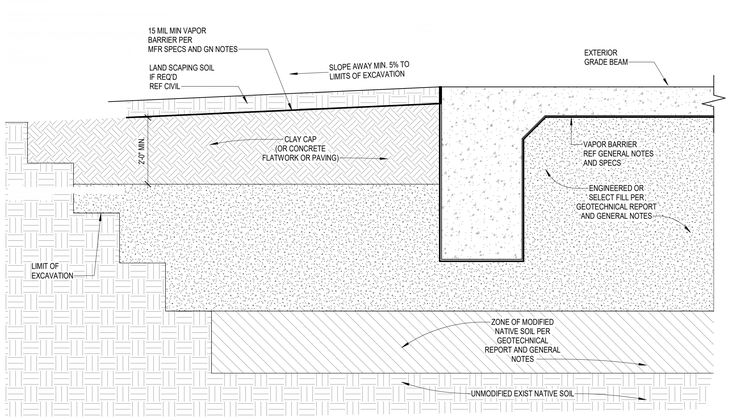
NOTE:

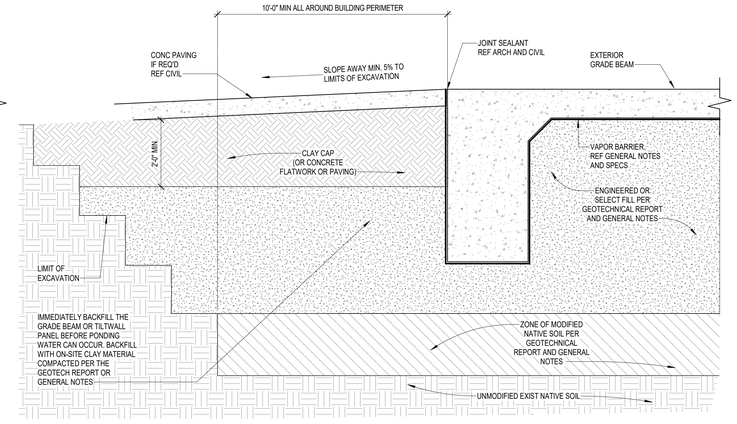
1. IF SELECT FILL OR ENGINEERED FILL IS UTILIZED BELOW SLAB, THE DEPTH OF GRADE BEAM OR PANEL MUST BE AT LEAST 6" BELOW THE BOTTOM OF SUCH FILL.



ADJACENT TO EXISTING

2 SELECT FILL AT BUILDING PERIMETER
3/4" = 1'-0"

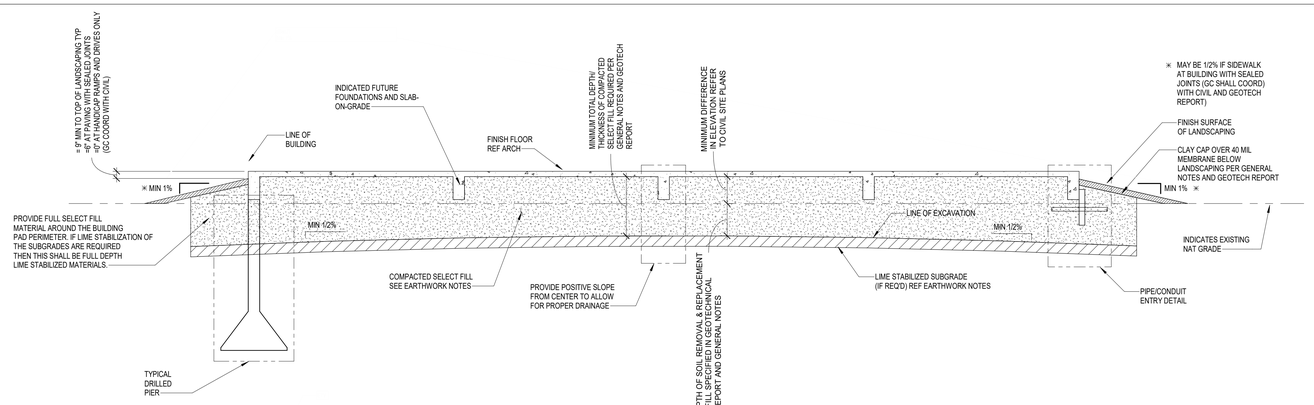




SITE NOTES:

1. ROOF RUNOFF AND SURFACE DRAINAGE SHALL BE COLLECTED AND DISCHARGED AWAY FROM THE STRUCTURES TO PREVENT WETTING OF THE FOUNDATION SOILS. ROOF GUTTERS SHALL BE INSTALLED AND CONNECTED TO DOWNSPOUTS AND PIPES DIRECTING ROOF RUNOFF AT LEAST 10 FEET AWAY FROM THE BUILDINGS, OR DISCHARGED ON TO POSITIVELY SLOPED IMPERVIOUS FLATWORK SUCH AS SIDEWALKS AND /OR PAVING AREAS.
2. SPRINKLER MAINS AND SPRAY HEADS SHALL BE LOCATED AT LEAST 5 FEET AWAY FROM THE BUILDING SUCH THAT THEY CANNOT BECOME A POTENTIAL POINT SOURCE OF WATER DIRECTLY ADJACENT TO THE BUILDING. WATERING OF VEGETATION SHALL BE PERFORMED IN A TIMELY AND CONTROLLED MANNER AND PROLONGED WATERING SHALL BE AVOIDED. LANDSCAPED IRRIGATION ADJACENT TO THE FOUNDATION STRUCTURE SHALL BE MINIMIZED OR ELIMINATED. SPECIAL CARE SHALL BE TAKEN SUCH THAT UNDERGROUND UTILITIES DO NOT DEVELOP LEAKS WITH TIME.

3 TYPICAL EXTERIOR GB BACKFILL DETAIL
NO SCALE



4 TYPICAL BUILDING PAD PREPARATION DETAIL
NO SCALE

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CONSULTANT NAME
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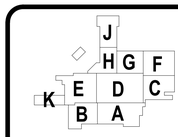
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
REGISTERED
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

GENERAL SUBGRADE NOTES AND TYPICAL DETAILS

S-013

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0" 1"

COMPOSITE FOUNDATION DEMO SCOPE PLAN

SD-100

FOR BLUEBEAM LABELING/OCR:

FOUNDATION & FIRST FLOOR DEMO SCOPE LEGEND:

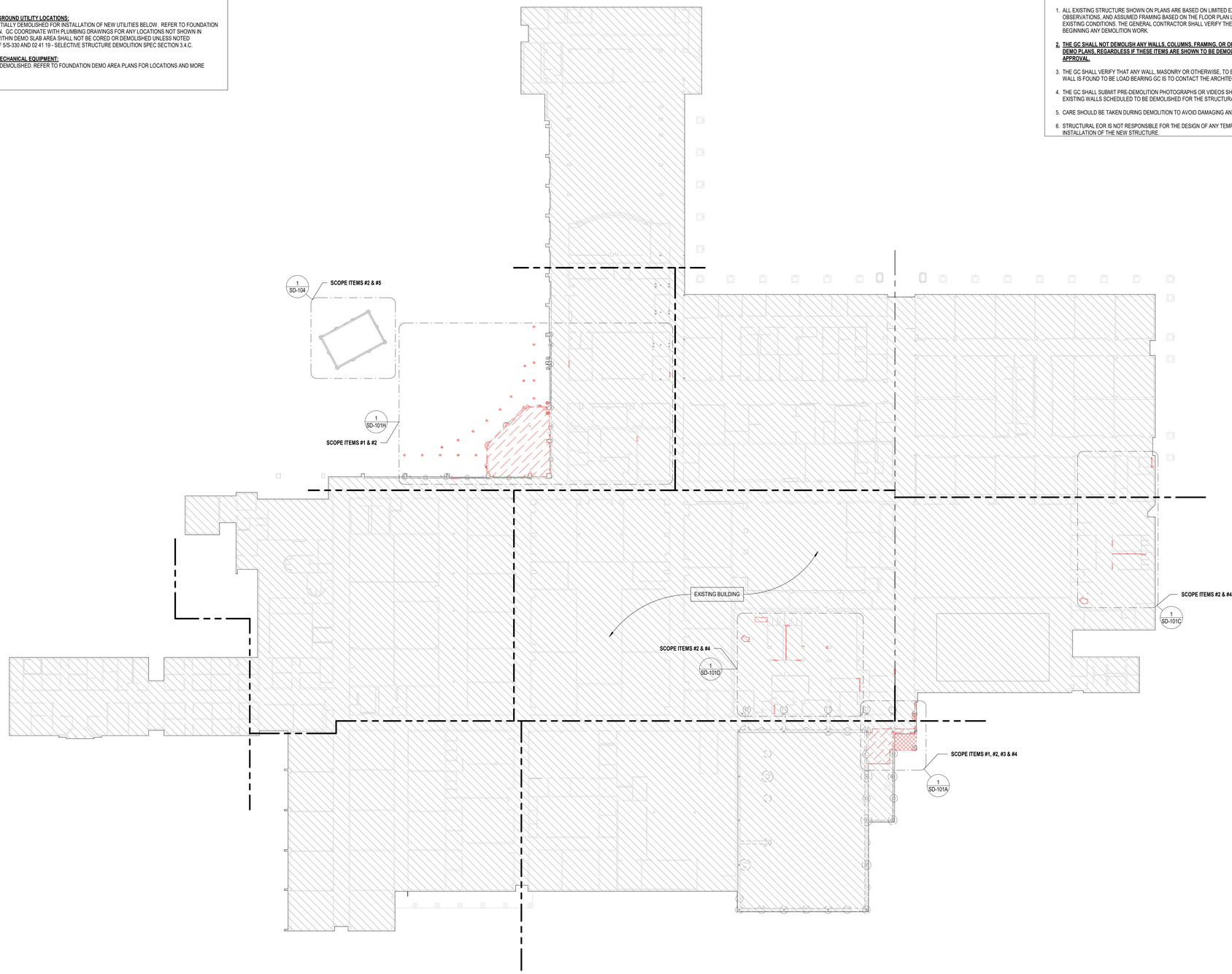
1. **DEMOLITION OF EXISTING STRUCTURES AND ASSOCIATED FOUNDATIONS:**
   PORTIONS OF THE EXISTING BUILDING ARE SCHEDULED FOR DEMOLITION, AS NOTED IN THE STRUCTURAL DRAWINGS. THIS SCHEDULED DEMOLITION INCLUDES EXISTING BUILDING AND SITE COMPONENTS AS WELL AS THEIR ASSOCIATED EXISTING FOUNDATIONS WITHIN THE FOOTPRINT OF THE NEW ADDITION. REFER TO PIER DEMO PLANS, FOUNDATION DEMO PLANS, AND ***PIER DEMO - GC NOTE***.

2. **DEMOLITION OF EXISTING CMU WALLS:**
   PORTIONS OF EXISTING CMU WALLS, BOTH INTERIOR AND EXTERIOR ARE SCHEDULED FOR DEMOLITION. REFER TO FOUNDATION DEMO AREA PLANS FOR LOCATIONS AND MORE INFORMATION. THE GENERAL CONTRACTOR SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.
   - THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
   - THE GENERAL CONTRACTOR SHALL SUBMIT PRE-DEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL.
   - CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
   - STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.

3. **DEMOLITION OF EXISTING FOUNDATION SLABS AT NEW CMU WALL LOCATIONS:**
   PORTIONS OF THE EXISTING SLAB-ON-GRADE ARE TO BE PARTIALLY DEMOLISHED FOR INSTALLATION OF NEW THICKENED SLABS BENEATH NEW CMU. REFER TO FOUNDATION DEMO AREA PLANS FOR LOCATIONS AND MORE INFORMATION. GC COORDINATE WITH ARCH DRAWINGS FOR ANY LOCATIONS NOT SHOWN IN STRUCTURAL DRAWINGS. REF SHEET S-322.

4. **DEMOLITION OF EXISTING FOUNDATION SLABS AT NEW UNDERGROUND UTILITY LOCATIONS:**
   PORTIONS OF THE EXISTING SLAB-ON-GRADE ARE TO BE PARTIALLY DEMOLISHED FOR INSTALLATION OF NEW UTILITIES BELOW. REFER TO FOUNDATION DEMO AREA PLANS FOR LOCATIONS AND MORE INFORMATION. GC COORDINATE WITH PLUMBING DRAWINGS FOR ANY LOCATIONS NOT SHOWN IN STRUCTURAL DRAWINGS. EXISTING GRADE BEAMS FOUND WITHIN DEMO SLAB AREA SHALL NOT BE CORED OR DEMOLISHED UNLESS NOTED OTHERWISE IN STRUCTURAL FOUNDATION DEMO PLANS. REF 5/S-330 AND 02 41 19 - SELECTIVE STRUCTURE DEMOLITION SPEC SECTION 3.4.C.

5. **DEMOLITION OF EXISTING HOUSEKEEPING PADS AT EXISTING MECHANICAL EQUIPMENT:**
   VARIOUS HOUSEKEEPING PADS ON THE SITE ARE SET TO BE DEMOLISHED. REFER TO FOUNDATION DEMO AREA PLANS FOR LOCATIONS AND MORE INFORMATION.



1 COMPOSITE FOUNDATION DEMO PLAN
1" = 30'-0"

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.

DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PRE-DEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.

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CONSULTANT NAME
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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J H G F K E D C B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

COMPOSITE FOUNDATION DEMO SCOPE PLAN

SD-100

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PIER DEMO PLAN - AREA H

SD-100H

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

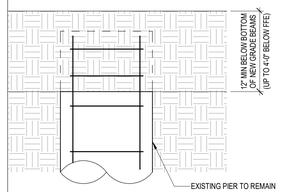
PREPARATION:

1. CHIP EXISTING CONCRETE PIER DOWN TO DEPTH SHOWN.
2. CUT PIER REINFORCEMENT FLUSH W/ TOP PIER.
3. PROVIDE EPOXY GROUT OVER EXPOSED REBAR.
4. BACKFILL/COMPACT OVER PIER AND ABANDON IN PLACE.

NOTE:

1. WHERE EXISTING PIER INTERFERES WITH NEW FOUNDATION/SLAB, CONTRACTOR SHALL REMOVE EXISTING TOP OF PIER TO AN ELEVATION 12 INCHES BELOW FUTURE GRADE BEAMS (UP TO 4'-0" BELOW FFE - REF GRADE BEAM SCHED).

2. IF DRILLED FOOTINGS ARE PLANNED TO BE EXCAVATED AND COMPLETELY REMOVED. THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED FOR ADDITIONAL RECOMMENDATIONS. COMPLETE REMOVAL OF DRILLED FOOTINGS WILL REQUIRE SIGNIFICANT EARTHWORK ACTIVITIES TO BACKFILL THE RESULTING EXCAVATIONS IN SUCH A MANNER AS TO MAKE THE SITE SUITABLE FOR NEW CONSTRUCTION.



PIER DEMO CONDITION 2

PIER DEMO - GC NOTE

PORTIONS OF THE EXISTING BUILDING ARE SCHEDULED FOR DEMOLITION, AS NOTED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. THIS SCHEDULED DEMOLITION INCLUDES EXISTING BUILDING AND SITE COMPONENTS AS WELL AS THEIR ASSOCIATED EXISTING FOUNDATIONS WITHIN THE FOOTPRINT OF THE NEW ADDITIONS. IN AN EFFORT TO REDUCE THE DISTURBANCE OF SOILS IN THE FOUNDATION BEARING STRATUM AS MUCH AS POSSIBLE, THE FOLLOWING EXISTING FOUNDATION DEMOLITION SHALL BE AS FOLLOWS:

PIER DEMO CONDITION 1:
AT ANY LOCATION WHERE A NEW PIER WILL OVERLAP AN EXISTING FOOTING/PIER, THE SOIL CURRENTLY IN THE EXISTING FOOTING/PIER SHALL BE EXCAVATED. THE RESULTING HOLE SHALL BE BACKFILLED WITH CONTROLLED LOW-STRENGTH MATERIAL (CLSM) OR FLOWABLE FILL. CLSM / FLOWABLE FILL SHALL MEET THE DESIRED STRENGTH AT THE TIME OF EXCAVATION. IF DRILLED FOOTINGS ARE PLANNED TO BE EXCAVATED AND COMPLETELY REMOVED, TERRACON SHOULD BE CONTACTED FOR ADDITIONAL RECOMMENDATIONS.

PIER DEMO CONDITION 2:
AT ANY LOCATION WHERE AN EXISTING FOOTING/PIER DOES NOT OVERLAP WITH A NEW PIER, THE PORTION OF THE EXISTING FOOTING/PIER WITHIN 1-FT OF BOTTOM OF NEW GRADE BEAMS SHALL BE DEMOLISHED. THE AREA BETWEEN THE TOP OF THE EXISTING FOOTING/PIER AND THE BOTTOM OF THE FUTURE SLAB SHALL BE BACKFILLED WITH SELECT FILL. THE SELECT FILL SHOULD BE PLACED IN 8" THICK MAX LOOSE LIFTS, WITH EACH LIFT COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY STANDARD EFFORT (ASTM D 698).

WHILE IT IS COMMON FOR THE TESTING AND INSPECTIONS LABORATORY TO BE INVOLVED AND ON-SITE DURING EARTHWORK PREP. AND OPERATIONS; (INCLUDING BUT NOT LIMITED TO: OBSERVING AND TESTING EARTHWORK PROPERTIES, SELECT FILL PROPERTIES, THICKNESSES, COMPACTION, MOISTURE CONTENT, ETC.) WE ALSO REQUIRE THE TESTING AND INSPECTIONS LABORATORY TO BE ON-SITE FOR THE INFILL OF ANY AND ALL DEMOLISHED FOUNDATION ITEMS. BOTH PARTIALLY AND FULLY DEMOLISHED. WE HAVE OBSERVED INSTANCED WHERE THE DEMO CONTRACTOR DID NOT PROPERLY/ADEQUATELY INFILL THE SUB-GRADE VOIDS AND/OR COMPACT THE INFILL FROM EXISTING DEMOLISHED FOUNDATIONS. WHEN THE NEW BUILDING WAS CONSTRUCTED, THE INADEQUATE FILL/COMPACTION LED TO WATER INTRUSION PROBLEMS AND QUESTIONABLE BEARING. WE REQUIRE THAT THE TESTING AND INSPECTIONS LABORATORY BE ON-SITE TO OBSERVE AND TEST THE INFILL OF THE EXISTING FOUNDATIONS TO REASONABLY ENSURE THAT THE BEARING VALUES RECOMMENDED IN THE GEOTECHNICAL REPORT CAN BE ACHIEVED.

THE OWNER SHALL BE AWARE THAT THIS ADDITIONAL TESTING INSPECTION SCOPE WILL BE REQUIRED.

THE GENERAL CONTRACTOR SHALL INFORM THE DEMOLITION CONTRACTOR(S) THAT THE INFILL OF THE DEMOLISHED FOUNDATIONS WILL BE REQUIRED TO MEET THE EARTHWORK REQUIREMENTS AND BE TESTING FOR COMPLIANCE AND ANY ADDITIONAL COST ASSOCIATED WITH ENSURING THE INFILL MEETS THESE PARAMETERS SHALL BE INCLUDED IN THEIR BASE BID (TYP.) THE GENERAL CONTRACTOR SHALL ALSO SUBMIT A UNIT PRICE FOR PIER DEMO CONDITION 1 & PIER DEMO CONDITION 2 THAT SHALL COVER THE ENTIRE UNIT COST INCLUDING OVERHEAD FOR THE ALL OF THE WORK DESCRIBED ABOVE FOR EACH PIER SIZE.

ALL UTILITIES AND ASSOCIATED BEDDING MATERIAL THAT ARE PLANNED TO BE ABANDONED SHOULD BE COMPLETELY REMOVED FROM WITHIN THE PROPOSED BUILDING AREAS. AS AN ALTERNATE TO COMPLETE REMOVAL, THE EXISTING UTILITIES MAY BE ABANDONED IN-PLACE IF THEY DO NOT INTERFERE WITH THE PLANNED DEVELOPMENT. IF THE UTILITIES ARE ABANDONED IN-PLACE, THEY SHOULD BE PROPERLY PRESSURE GROUTED TO COMPLETELY FILL THE UTILITY.

*****IMPORTANT GC NOTE*****
THE GENERAL CONTRACTOR SHALL VERIFY THAT ANY CMU WALLS SHOWN AS DEMOLISHED ON THE STRUCTURAL DRAWINGS OR ARCHITECTURAL DRAWINGS ARE NOT LOAD-BEARING BEFORE PROCEEDING WITH DEMOLITION, AS EXISTING DRAWINGS WERE LIMITED AND MAY NOT FULLY CONFIRM THIS.

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.

DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
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5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
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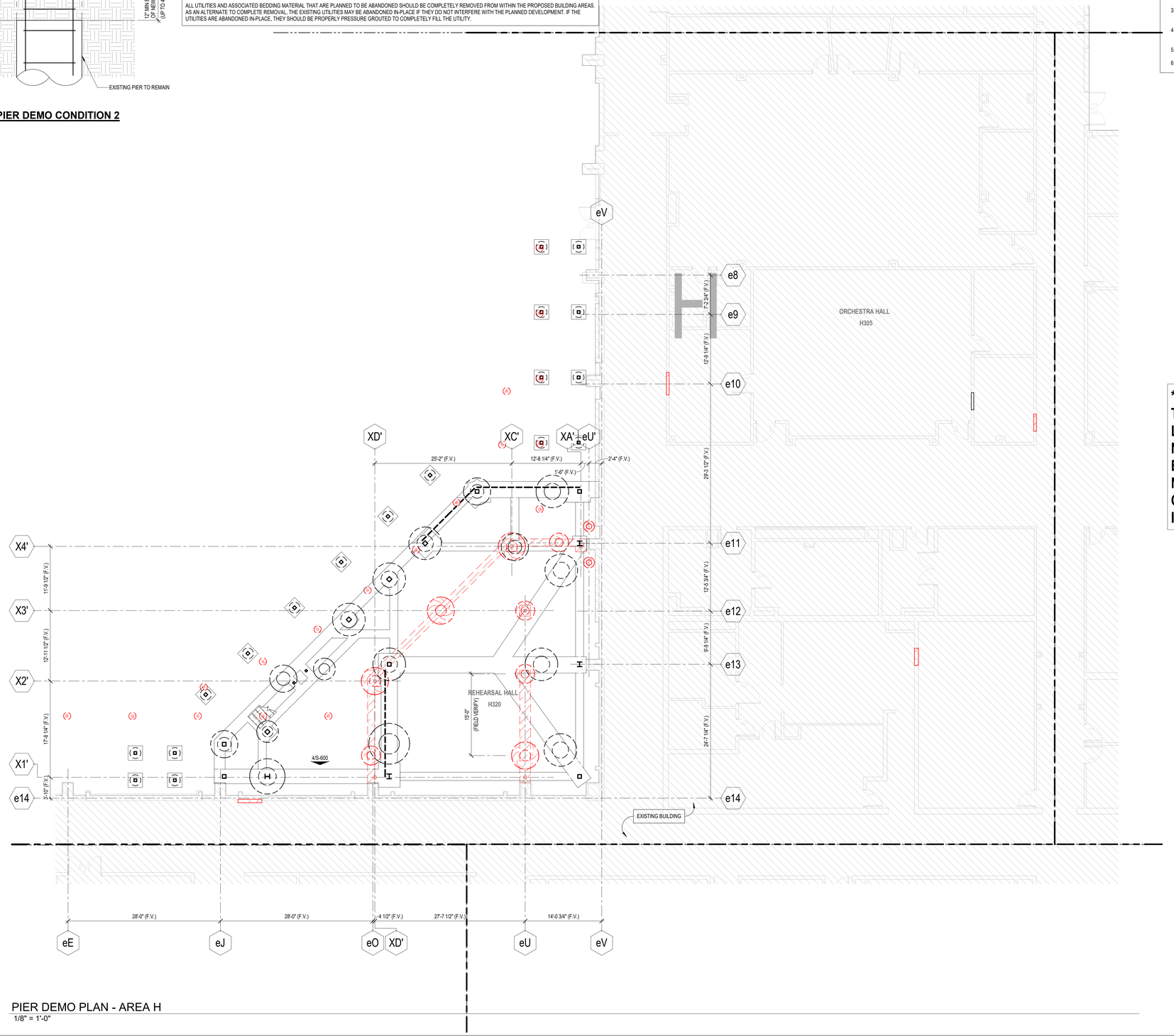

*****IMPORTANT GC NOTE*****
THIS PLAN IS INTENDED TO SHOW APPROXIMATE LOCATIONS OF EXISTING FOUNDATIONS IN RELATION TO NEW FOUNDATIONS TO DETERMINE THE QUANTITY OF EXISTING PIERS SCHEDULED FOR DEMO OVERLAP WITH NEW PIERS (PIER DEMO CONDITION 1) AND DO NOT OVERLAP WITH NEW PIERS (PIER DEMO CONDITION 2). IT IS TO BE USED FOR INFORMATION PURPOSES ONLY.

1 PIER DEMO PLAN - AREA H
1/8" = 1'-0"

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CONSULTANT NAME
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Arnold Middle School

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CYPRESS, TX 77429

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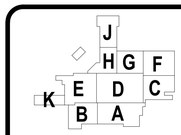

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

FOR INFORMATION PURPOSES ONLY

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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PIER DEMO PLAN - AREA H

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SD-100H

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FOUNDATION DEMO PLAN - AREA A
SD-101A
FOR BLUEBEAM LABELING/OCR:

0"
1"

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DEMOLITION NOTES:

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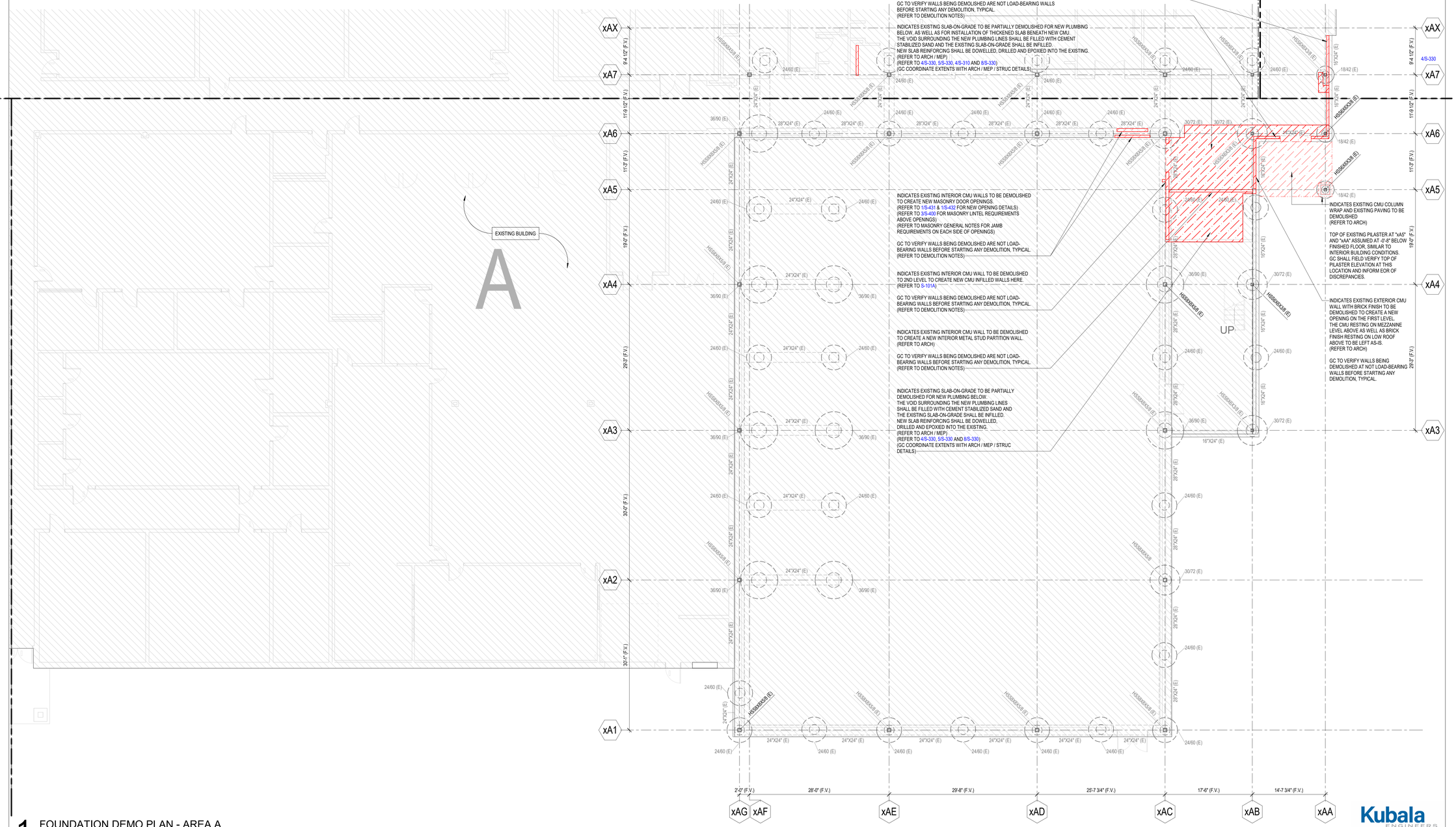

1 FOUNDATION DEMO PLAN - AREA A
1/8" = 1'-0"

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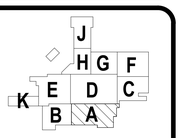

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
REGISTERED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

FOUNDATION DEMO PLAN - AREA A

SD-101A

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0"
1"

FOUNDATION DEMO PLAN - AREA C
SD-101C
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

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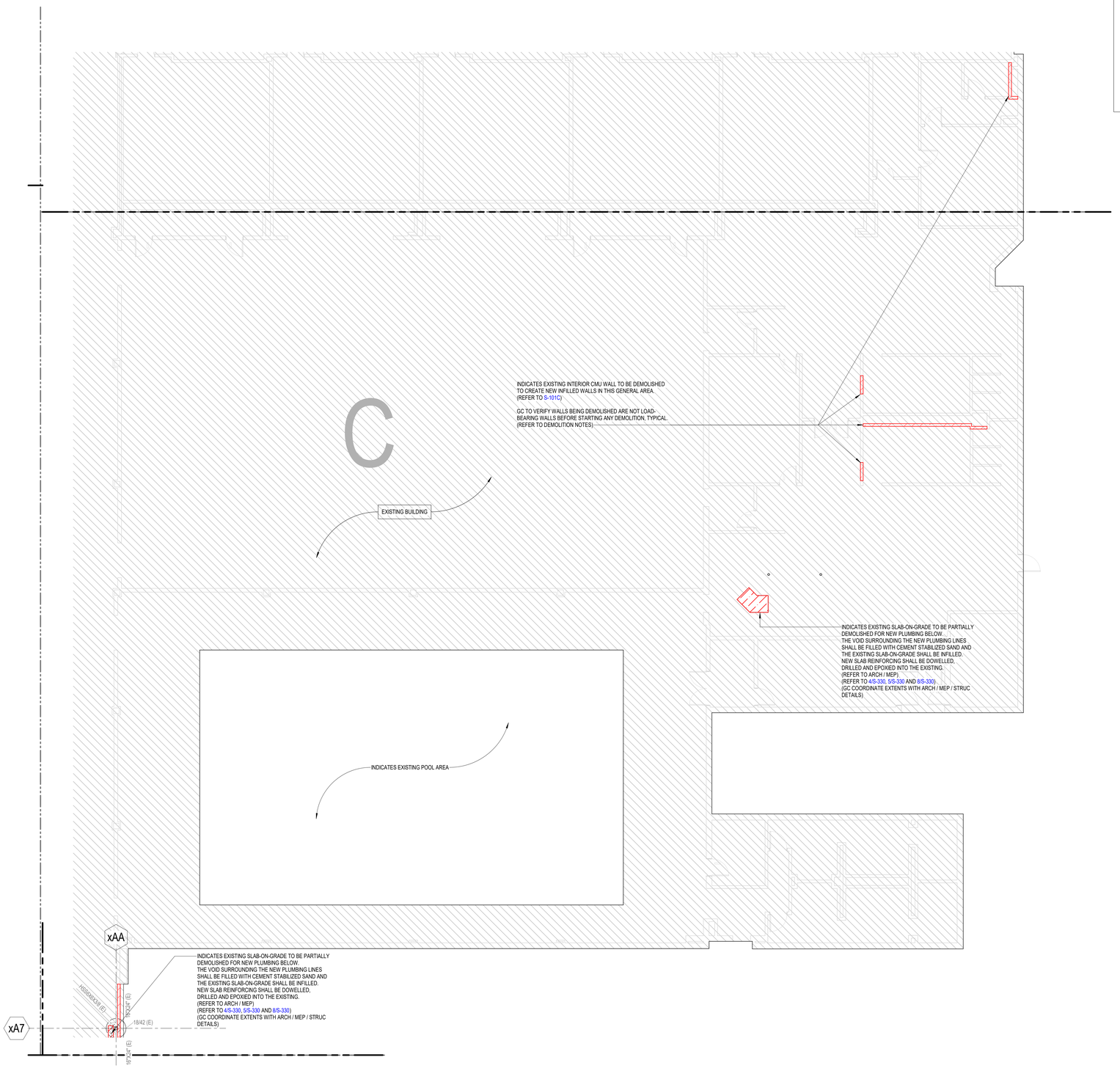

1 FOUNDATION DEMO PLAN - AREA C
1/8" = 1'-0"

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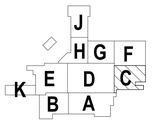

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

FOUNDATION DEMO PLAN - AREA C

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SD-101C

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FOUNDATION DEMO PLAN - AREA D

SD-101D

FOR BLUEBEAM LABELING/OCR:

0"

1"

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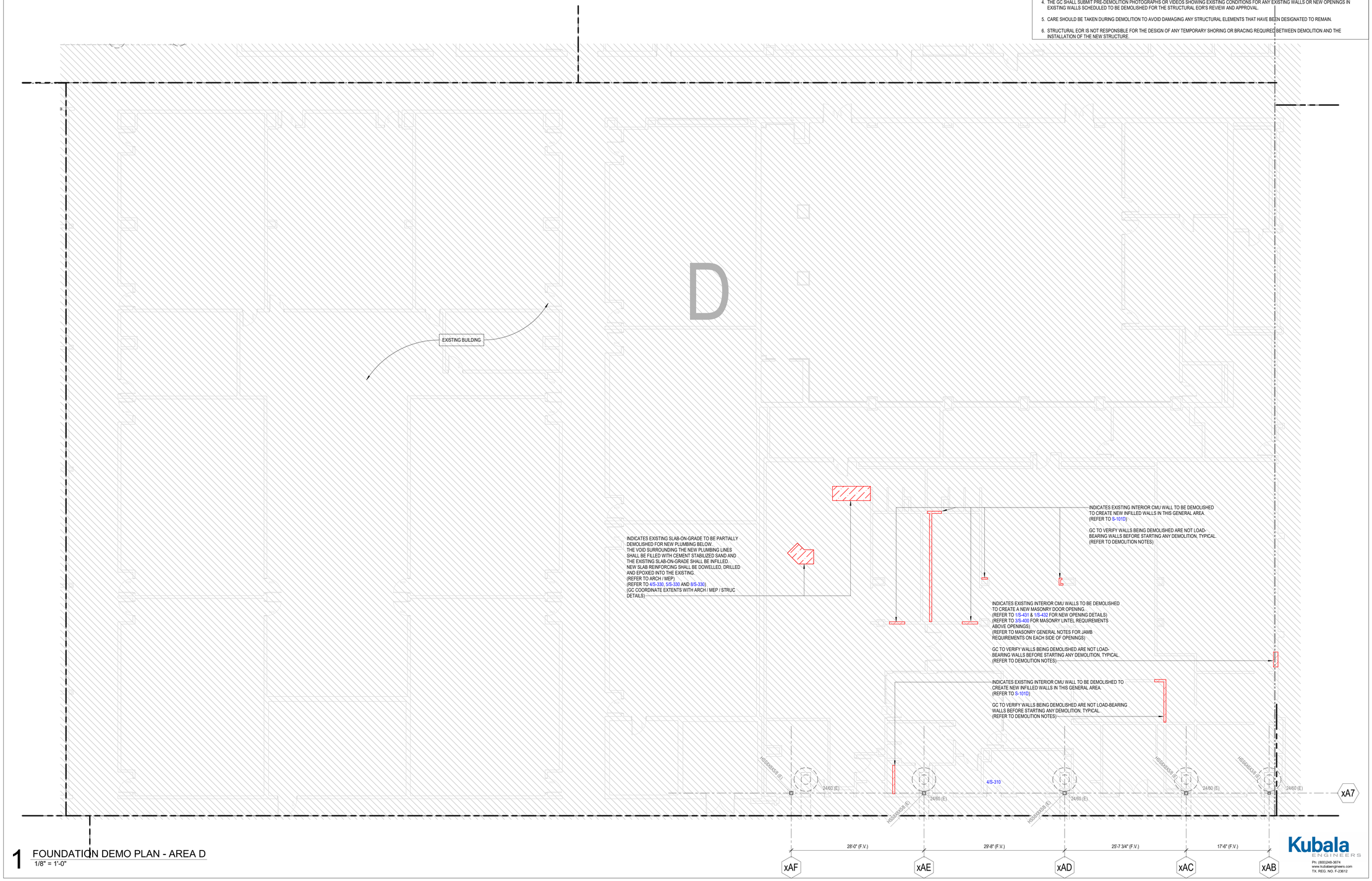

1 FOUNDATION DEMO PLAN - AREA D
1/8" = 1'-0"

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CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J H G F K E D C B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
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BUILDING NUMBER

FOUNDATION DEMO PLAN - AREA D

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SD-101D

FOUNDATION DEMO PLAN - AREA H

SD-101H

FOR BLUEBEAM LABELING/OCR:

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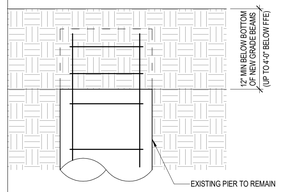
PREPARATION:

1. CHIP EXISTING CONCRETE PIER DOWN TO DEPTH SHOWN.
2. CUT PIER REINFORCEMENT FLUSH W/ TOP PIER.
3. PROVIDE EPOXY GROUT OVER EXPOSED REBAR.
4. BACKFILL/COMPACT OVER PIER AND ABANDON IN PLACE.

NOTE:

1. WHERE EXISTING PIER INTERFERES WITH NEW FOUNDATION/SLAB, CONTRACTOR SHALL REMOVE EXISTING TOP OF PIER TO AN ELEVATION 12 INCHES BELOW FUTURE GRADE BEAMS (UP TO 4'-0" BELOW FFE - REF GRADE BEAM SCHED).

2. IF DRILLED FOOTINGS ARE PLANNED TO BE EXCAVATED AND COMPLETELY REMOVED, THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED FOR ADDITIONAL RECOMMENDATIONS. COMPLETE REMOVAL OF DRILLED FOOTINGS WILL REQUIRE SIGNIFICANT EARTHWORK ACTIVITIES TO BACKFILL THE RESULTING EXCAVATIONS IN SUCH A MANNER AS TO MAKE THE SITE SUITABLE FOR NEW CONSTRUCTION.



PIER DEMO CONDITION 2

PIER DEMO - GC NOTE

PORTIONS OF THE EXISTING BUILDING ARE SCHEDULED FOR DEMOLITION, AS NOTED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. THIS SCHEDULED DEMOLITION INCLUDES EXISTING BUILDING AND SITE COMPONENTS AS WELL AS THEIR ASSOCIATED EXISTING FOUNDATIONS WITHIN THE FOOTPRINT OF THE NEW ADDITIONS. IN AN EFFORT TO REDUCE THE DISTURBANCE OF SOILS IN THE FOUNDATION BEARING STRATUM AS MUCH AS POSSIBLE, THE FOLLOWING EXISTING FOUNDATION DEMOLITION SHALL BE AS FOLLOWS:

PIER DEMO CONDITION 1:
AT ANY LOCATION WHERE A NEW PIER WILL OVERLAP AN EXISTING FOOTING/PIER, THE SOIL CURRENTLY IN THE EXISTING FOOTING/PIER SHALL BE EXCAVATED. THE RESULTING HOLE SHALL BE BACKFILLED WITH CONTROLLED LOW-STRENGTH MATERIAL (CLSM) OR FLOWABLE FILL. CLSM / FLOWABLE FILL SHALL MEET THE DESIRED STRENGTH AT THE TIME OF EXCAVATION. IF DRILLED FOOTINGS ARE PLANNED TO BE EXCAVATED AND COMPLETELY REMOVED, TERRACON SHOULD BE CONTACTED FOR ADDITIONAL RECOMMENDATIONS.

PIER DEMO CONDITION 2:
AT ANY LOCATION WHERE AN EXISTING FOOTING/PIER DOES NOT OVERLAP WITH A NEW PIER, THE PORTION OF THE EXISTING FOOTING/PIER WITHIN 1-FT OF BOTTOM OF NEW GRADE BEAMS SHALL BE DEMOLISHED. THE AREA BETWEEN THE TOP OF THE EXISTING FOOTING/PIER AND THE BOTTOM OF THE FUTURE SLAB SHALL BE BACKFILLED WITH SELECT FILL. THE SELECT FILL SHOULD BE PLACED IN 8" THICK MAX LOOSE LIFTS, WITH EACH LIFT COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY STANDARD EFFORT (ASTM D 698).

WHILE IT IS COMMON FOR THE TESTING AND INSPECTIONS LABORATORY TO BE INVOLVED AND ON-SITE DURING EARTHWORK PREP. AND OPERATIONS; (INCLUDING BUT NOT LIMITED TO: OBSERVING AND TESTING EARTHWORK PROPERTIES, SELECT FILL PROPERTIES, THICKNESSES, COMPACTION, MOISTURE CONTENT, ETC.) WE ALSO REQUIRE THE TESTING AND INSPECTIONS LABORATORY TO BE ON-SITE FOR THE INFILL OF ANY AND ALL DEMOLISHED FOUNDATION ITEMS, BOTH PARTIALLY AND FULLY DEMOLISHED. WE HAVE OBSERVED INSTANCES WHERE THE DEMO CONTRACTOR DID NOT PROPERLY/ADEQUATELY INFILL THE SUB-GRADE VOIDS AND/OR COMPACT THE INFILL FROM EXISTING DEMOLISHED FOUNDATIONS. WHEN THE NEW BUILDING WAS CONSTRUCTED, THE INADEQUATE FILL/COMPACTION LED TO WATER INTRUSION PROBLEMS AND QUESTIONABLE BEARING. WE REQUIRE THAT THE TESTING AND INSPECTIONS LABORATORY BE ON-SITE TO OBSERVE AND TEST THE INFILL OF THE EXISTING FOUNDATIONS TO REASONABLY ENSURE THAT THE BEARING VALUES RECOMMENDED IN THE GEOTECHNICAL REPORT CAN BE ACHIEVED.

THE OWNER SHALL BE AWARE THAT THIS ADDITIONAL TESTING INSPECTION SCOPE WILL BE REQUIRED.

THE GENERAL CONTRACTOR SHALL INFORM THE DEMOLITION CONTRACTOR(S) THAT THE INFILL OF THE DEMOLISHED FOUNDATIONS WILL BE REQUIRED TO MEET THE EARTHWORK REQUIREMENTS AND BE TESTING FOR COMPLIANCE AND ANY ADDITIONAL COST ASSOCIATED WITH ENSURING THE INFILL MEETS THESE PARAMETERS SHALL BE INCLUDED IN THEIR BASE BID (TYP.) THE GENERAL CONTRACTOR SHALL ALSO SUBMIT A UNIT PRICE FOR PIER DEMO CONDITION 1 & PIER DEMO CONDITION 2 THAT SHALL COVER THE ENTIRE UNIT COST INCLUDING OVERHEAD FOR THE ALL OF THE WORK DESCRIBED ABOVE FOR EACH PIER SIZE.

ALL UTILITIES AND ASSOCIATED BEDDING MATERIAL THAT ARE PLANNED TO BE ABANDONED SHOULD BE COMPLETELY REMOVED FROM WITHIN THE PROPOSED BUILDING AREAS. AS AN ALTERNATE TO COMPLETE REMOVAL, THE EXISTING UTILITIES MAY BE ABANDONED IN-PLACE IF THEY DO NOT INTERFERE WITH THE PLANNED DEVELOPMENT. IF THE UTILITIES ARE ABANDONED IN-PLACE, THEY SHOULD BE PROPERLY PRESSURE GROUTED TO COMPLETELY FILL THE UTILITY.

IMPORTANT GC NOTE
THE GENERAL CONTRACTOR SHALL VERIFY THAT ANY CMU WALLS SHOWN AS DEMOLISHED ON THE STRUCTURAL DRAWINGS OR ARCHITECTURAL DRAWINGS ARE NOT LOAD-BEARING BEFORE PROCEEDING WITH DEMOLITION, AS EXISTING DRAWINGS WERE LIMITED AND MAY NOT FULLY CONFIRM THIS.

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
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DEMOLITION NOTES:

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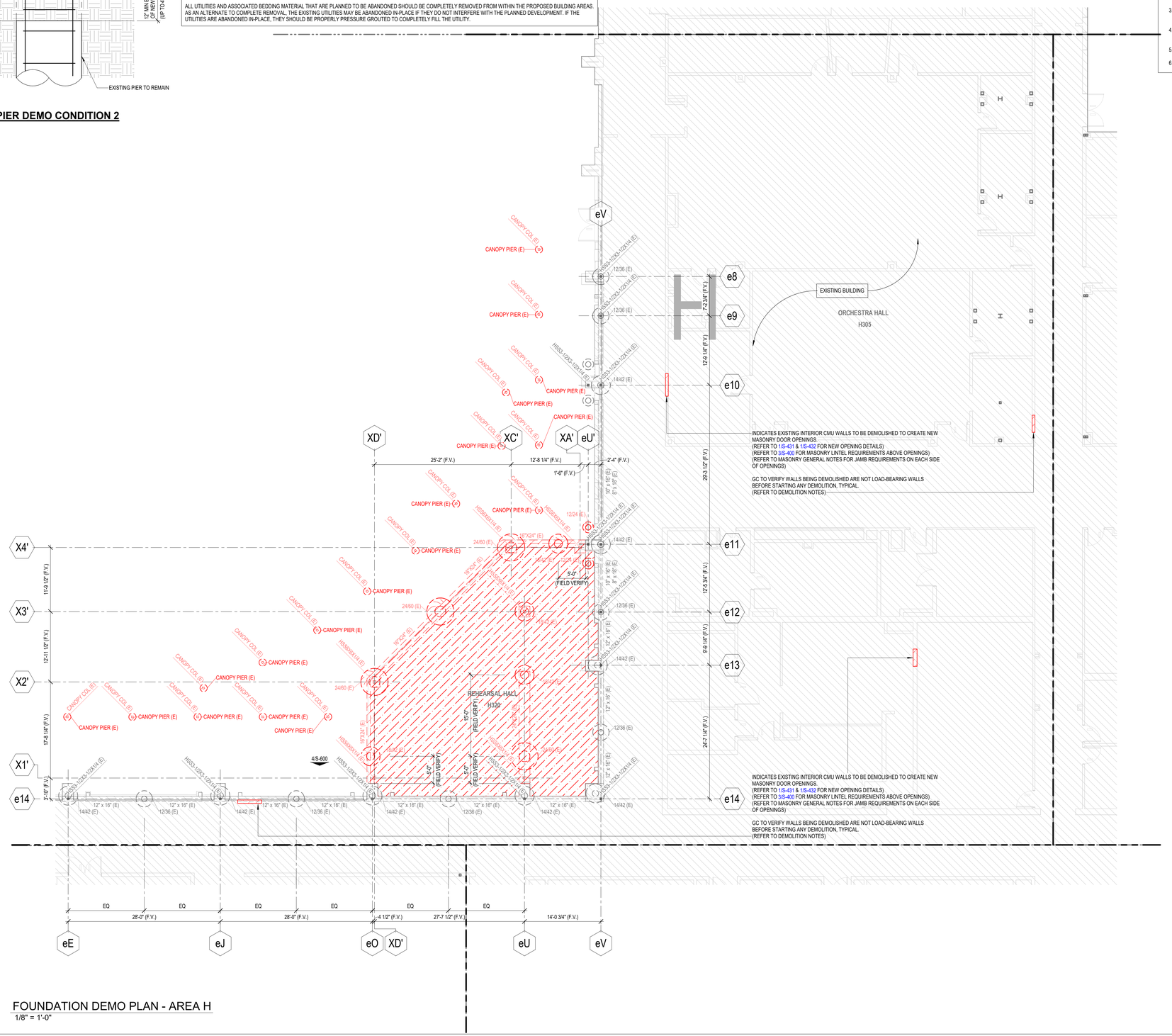
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PRE-DEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.



1 FOUNDATION DEMO PLAN - AREA H
1/8" = 1'-0"

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MEP/T
LEAP
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ACOUSTIC
RSDG
T 512-476-3494
FOOD SERVICE
JSD
T 281-556-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TEL GEF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

FOUNDATION DEMO PLAN - AREA H

SD-101H

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0"
1"

SD-102
COMPOSITE SECOND FLOOR / LOW ROOF DEMO SCOPE PLAN
FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

FRAMING DEMO / EXISTING SCOPE LEGEND:

1. **DEMOLITION OF EXISTING STRUCTURES:**
   PORTIONS OF THE EXISTING BUILDING ARE SCHEDULED FOR DEMOLITION, AS NOTED IN THE STRUCTURAL DRAWINGS. THIS SCHEDULED DEMOLITION INCLUDES EXISTING BUILDING AND SITE COMPONENTS AS WELL AS THEIR ASSOCIATED EXISTING FOUNDATIONS WITHIN THE FOOTPRINT OF THE NEW ADDITION. REFER TO FRAMING DEMO PLANS FOR MORE INFORMATION.

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   GC FIELD VERIFY EXISTING CONDITIONS FOR RTU UNITS SCHEDULED FOR REPLACEMENT. ALL EXISTING ROOF FRAMING SUPPORT NEW OR REPLACEMENT MECHANICAL ROOF TOP UNITS SHALL BE SUPPORTED AND REINFORCED PER 1/S-530 & 2/S-530, TYPICAL UNO.
   REF 4/S-530 FOR NEW ROOF PENETRATIONS/OPENINGS IN EXISTING ROOF. REF 3/S-530 FOR TYPICAL INFILL DETAIL AT EXISTING MECHANICAL PENETRATIONS.

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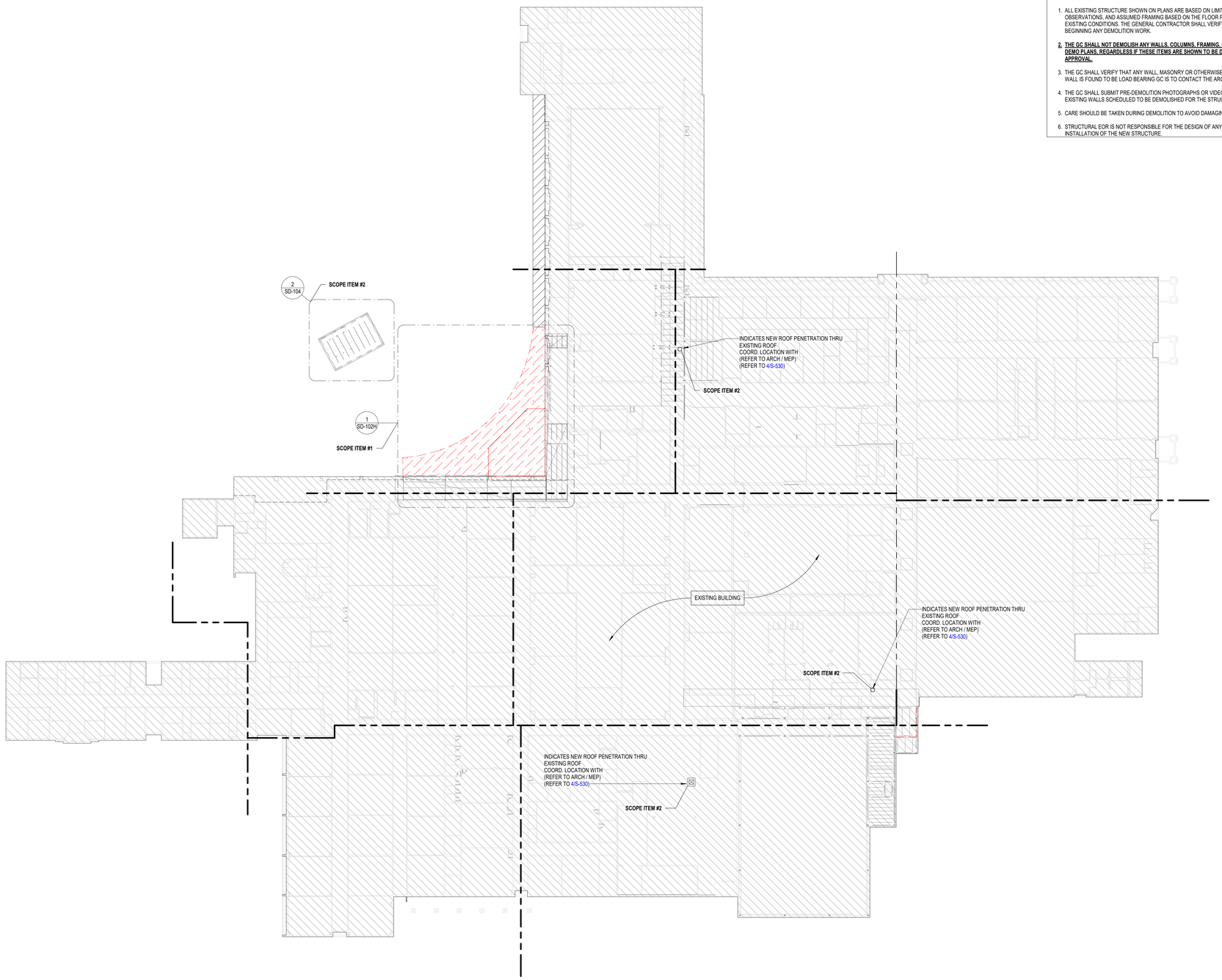

1 COMPOSITE SECOND FLOOR / LOW ROOF DEMO PLAN
1" = 30'-0"

PBK

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RSC
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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

COMPOSITE SECOND FLOOR / LOW ROOF DEMO SCOPE PLAN

SD-102

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ISSUE FOR PROPOSAL

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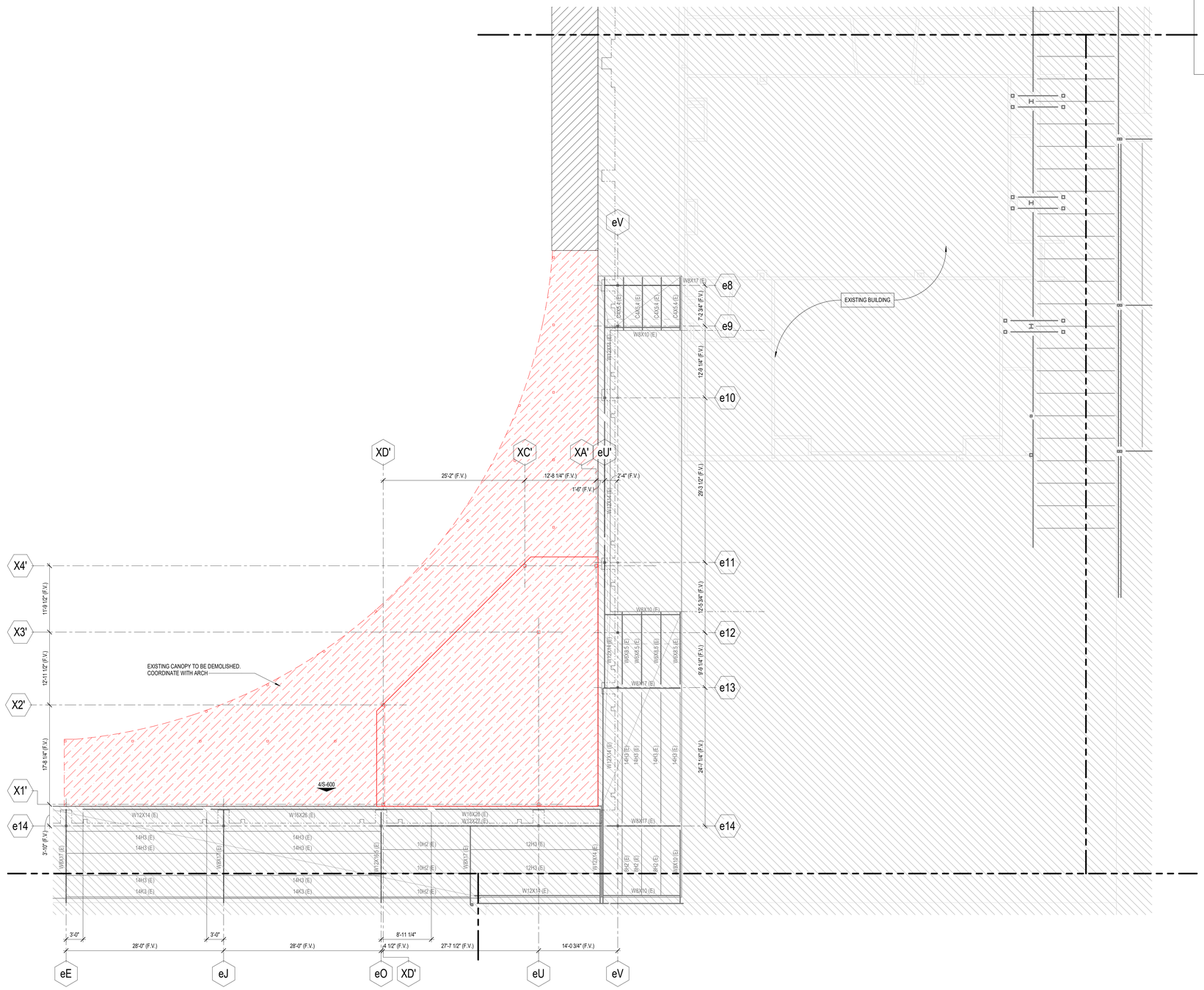
SECOND FLOOR / LOW ROOF DEMO PLAN - AREA H
SD-102H
FOR BLUEBEAM LABELING:OCR:



1 SECOND FLOOR / LOW ROOF DEMO PLAN - AREA H
1/8" = 1'-0"

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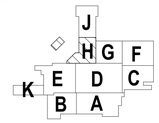

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

SECOND FLOOR / LOW ROOF DEMO PLAN - AREA H

SD-102H

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0"
1"

SD-103
COMPOSITE ROOF DEMO SCOPE PLAN
FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

FRAMING DEMO / EXISTING SCOPE LEGEND:

1. **DEMOLITION OF EXISTING STRUCTURES:**
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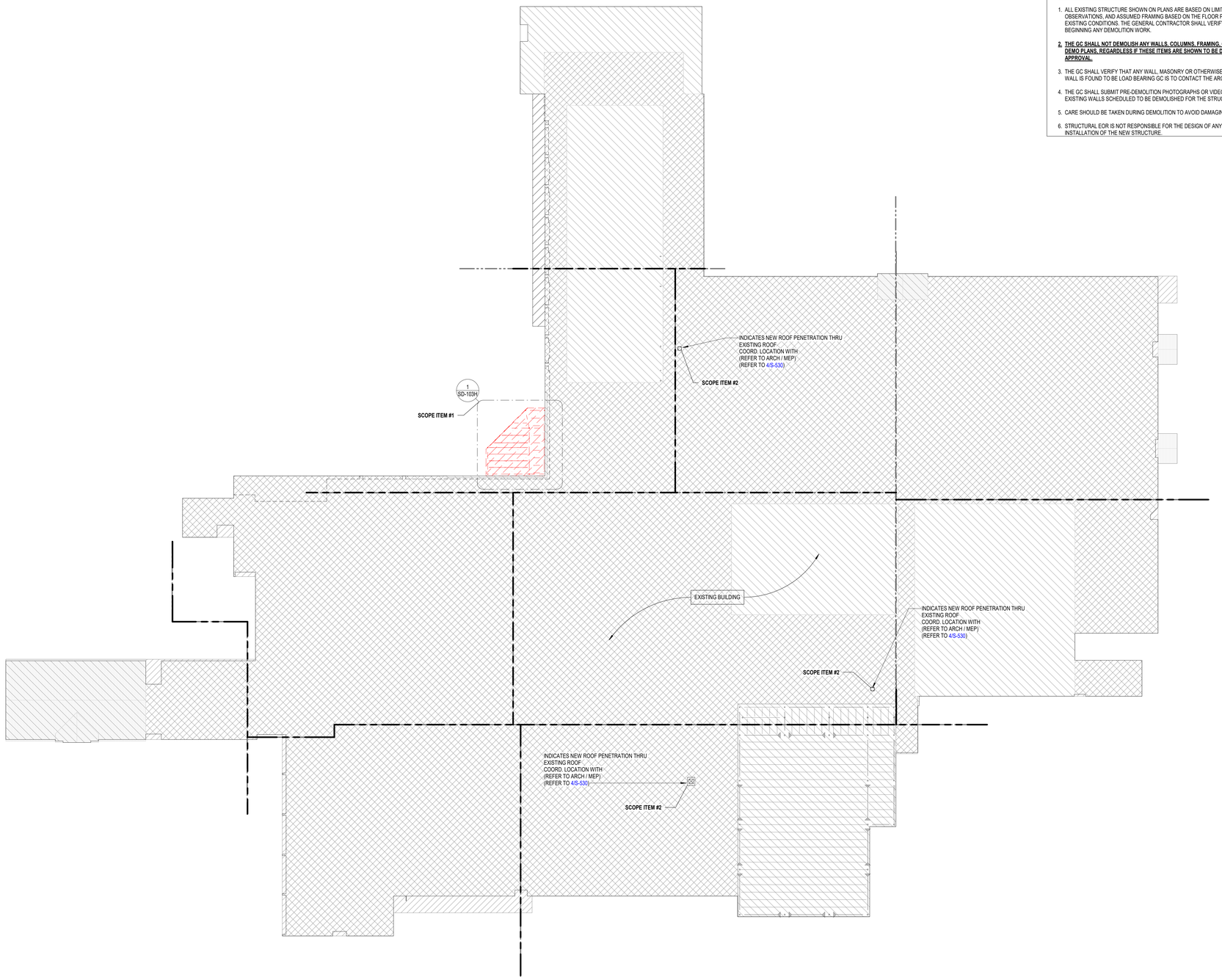

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3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PRE-DEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.

1 COMPOSITE ROOF DEMO PLAN
1" = 30'-0"

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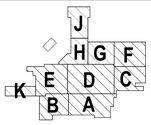
T: 512-474-3464
FOOD SERVICE
T: 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T: 000-000-0000

Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN TRUE



CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

COMPOSITE ROOF DEMO SCOPE PLAN

SD-103

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0"
1"

ROOF DEMO PLAN - AREA H

SD-103H

FOR BLUEBEAM LABELING:

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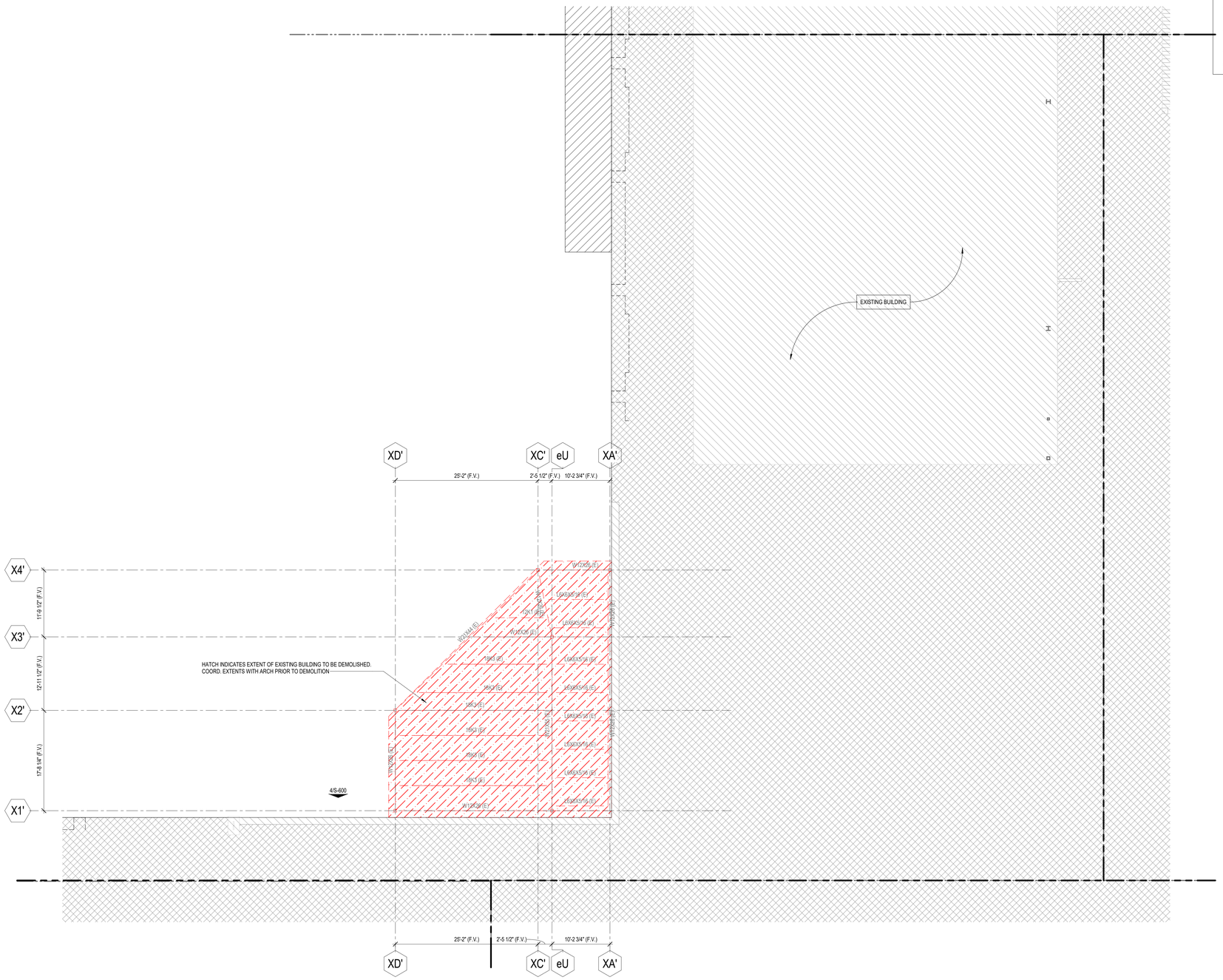
EXISTING BUILDING
XD'
XC'
eU
XA'
25'-2" (F.V.)
2'-5 1/2" (F.V.)
10'-2 3/4" (F.V.)
X4'
X3'
X2'
X1'
11'-9 1/2" (F.V.)
12'-11 1/2" (F.V.)
17'-8 1/4" (F.V.)
HATCH INDICATES EXTENT OF EXISTING BUILDING TO BE DEMOLISHED.
COORD. EXTENTS WITH ARCH PRIOR TO DEMOLITION
4/S-600
W12X26 (E)
W12X14 (E)
W10X26 (E)
W10X22 (E)
W8X10 (E)
W8X13 (E)
W8X15 (E)
W8X18 (E)
W8X21 (E)
W8X24 (E)
W8X28 (E)
W8X31 (E)
W8X35 (E)
W8X40 (E)
W8X48 (E)
W8X67 (E)
W10X45 (E)
W10X49 (E)
W10X54 (E)
W10X60 (E)
W10X68 (E)
W10X77 (E)
W10X88 (E)
W10X100 (E)
W10X112 (E)
W12X136 (E)
W12X152 (E)
W12X170 (E)
W12X190 (E)
W12X210 (E)
W12X230 (E)
W12X252 (E)
W12X279 (E)
W12X305 (E)
W12X336 (E)
W12X361 (E)
W12X387 (E)
W12X414 (E)
W12X441 (E)
W12X465 (E)
W12X504 (E)
W12X530 (E)
W12X550 (E)
W12X585 (E)
W12X624 (E)
W12X652 (E)
W12X696 (E)
W12X733 (E)
W12X768 (E)
W12X806 (E)
W12X840 (E)
W12X879 (E)
W12X926 (E)
W12X958 (E)
W12X1006 (E)
W12X1041 (E)
W12X1085 (E)
W12X1120 (E)
W12X1152 (E)
W12X1190 (E)
W12X1230 (E)
W12X1268 (E)
W12X1305 (E)
W12X1341 (E)
W12X1378 (E)
W12X1414 (E)
W12X1450 (E)
W12X1486 (E)
W12X1522 (E)
W12X1558 (E)
W12X1594 (E)
W12X1630 (E)
W12X1666 (E)
W12X1702 (E)
W12X1738 (E)
W12X1774 (E)
W12X1810 (E)
W12X1846 (E)
W12X1882 (E)
W12X1918 (E)
W12X1954 (E)
W12X1990 (E)
W12X2026 (E)
W12X2062 (E)

0"
1"

BOILER ROOM DEMO PLANS

SD-104

FOR BLUEBEAM LABELING/OCR:

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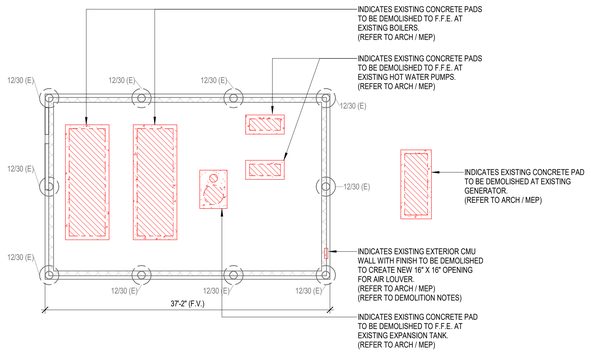
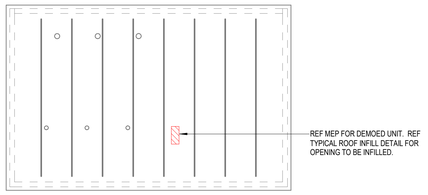


1 FOUNDATION DEMO PLAN - BOILER ROOM
1/8" = 1'-0"



2 ROOF DEMO PLAN - BOILER ROOM
1/8" = 1'-0"

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL, METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.

DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PRE-DEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.

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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN
J H G F K E D C B A
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

BOILER ROOM DEMO PLANS

SD-104

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S-101
COMPOSITE FOUNDATION SCOPE PLAN

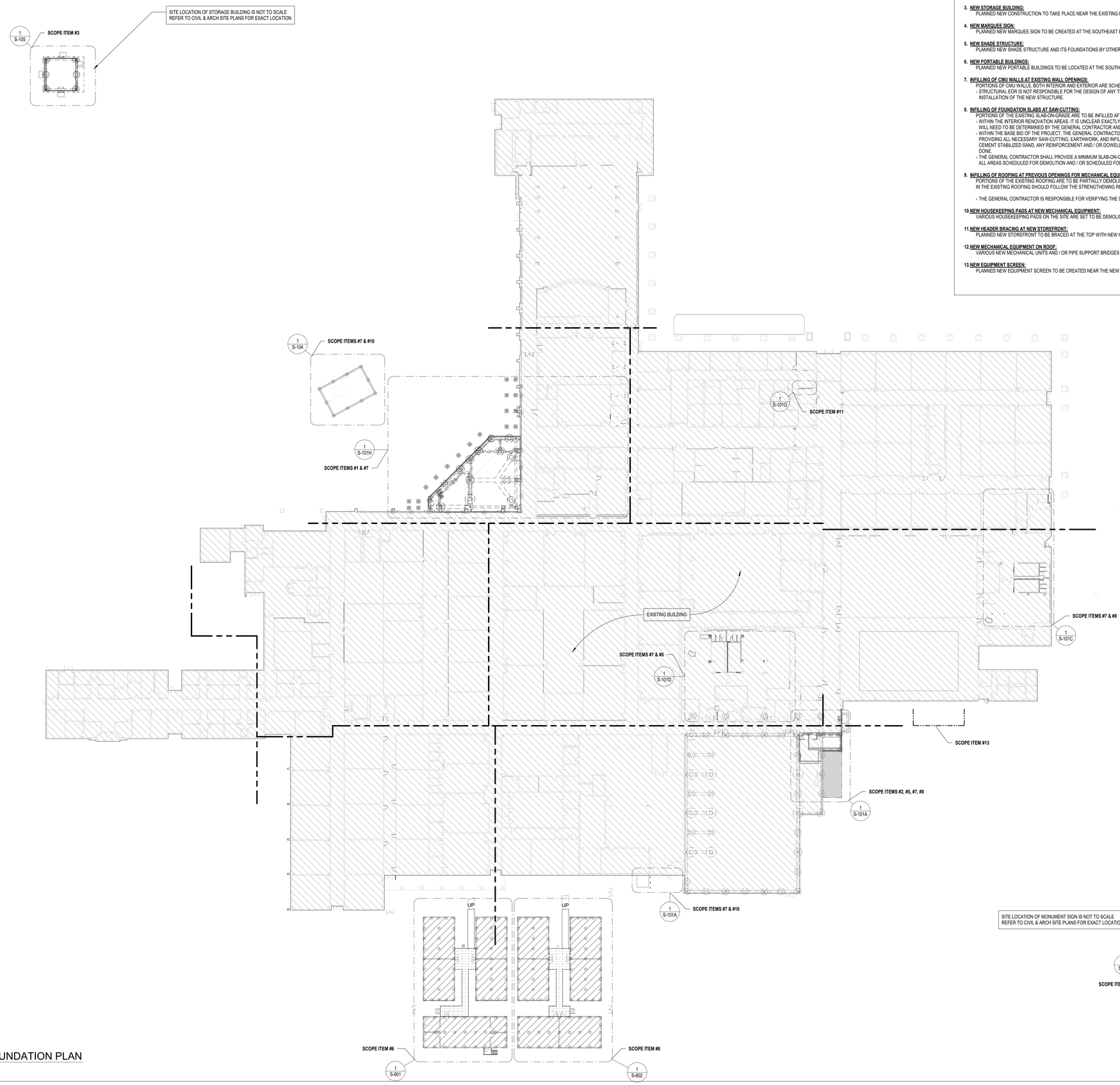
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

0"
1"

FOUNDATION / FIRST FLOOR SCOPE LEGEND:

1. **NEW ORCHESTRA ADDITION (AREA H):**
   PLANNED NEW CONSTRUCTION TO TAKE PLACE IN THE LOCATION OF THE DEMOLISHED REHEARSAL HALL. REFER TO PARTIAL PLAN FOR MORE INFO.
2. **NEW RESTROOM ADDITION AND RENOVATION (AREA A):**
   PLANNED NEW ADDITIONS AND RENOVATIONS TO TAKE PLACE NEAR THE EXISTING COMPETITION GYM. REFER TO PARTIAL PLAN FOR MORE INFO.
3. **NEW STORAGE BUILDING:**
   PLANNED NEW CONSTRUCTION TO TAKE PLACE NEAR THE EXISTING FOOTBALL FIELD AND TRACK. REFER TO PARTIAL PLAN FOR MORE INFO.
4. **NEW MARQUEE SIGN:**
   PLANNED NEW MARQUEE SIGN TO BE CREATED AT THE SOUTHEAST END OF THE SITE. REF SHEET S-321.
5. **NEW SHADE STRUCTURE:**
   PLANNED NEW SHADE STRUCTURE AND ITS FOUNDATIONS BY OTHERS TO BE CREATED NEAR THE NEW RESTOOM ADDITION AND RENOVATION. REF ARCH.
6. **NEW PORTABLE BUILDINGS:**
   PLANNED NEW PORTABLE BUILDINGS TO BE LOCATED AT THE SOUTH END OF THE EXISTING BUILDING. REF S-800.
7. **INFILLING OF CMU WALLS AT EXISTING WALL OPENINGS:**
   PORTIONS OF CMU WALLS, BOTH INTERIOR AND EXTERIOR ARE SCHEDULED TO BE INFILLED WITH NEW CMU. REF PARTIAL PLANS AND SHEET S-332.
   - STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.
8. **INFILLING OF FOUNDATION SLABS AT SAW-CUTTING:**
   PORTIONS OF THE EXISTING SLAB-ON-GRADE ARE TO BE INFILLED AFTER WORK IS COMPLETE.
   - WITHIN THE INTERIOR RENOVATION AREAS, IT IS UNCLEAR EXACTLY WHAT AREAS WILL NEED TO BE DEMOLISHED FOR ALL VARIOUS DISCIPLINES. THIS WILL NEED TO BE DETERMINED BY THE GENERAL CONTRACTOR AND EACH OF THEIR INDIVIDUAL SUBS.
   - WITHIN THE BASE BID OF THE PROJECT, THE GENERAL CONTRACTOR SHALL INCLUDE ALL COSTS, MATERIALS, LABOR, OVERHEAD, ETC. ASSOCIATED WITH PROVIDING ALL NECESSARY SAW-CUTTING, EARTHWORK, AND INFILLING, INCLUDING BUT NOT LIMITED TO: EARTH INFILL, CONCRETE POUR-BACKS, CEMENT STABILIZED SAND, ANY REINFORCEMENT AND / OR DOWELLING, ETC. AS IS NEEDED TO RE-FORM THE FULL SLAB-ON-GRADE AFTER ALL WORK IS DONE.
   - THE GENERAL CONTRACTOR SHALL PROVIDE A MINIMUM SLAB-ON-GRADE THICKNESS MATCHING THE EXISTING SLAB-ON-GRADE THICKNESS, TYPICAL FOR ALL AREAS SCHEDULED FOR DEMOLITION AND / OR SCHEDULED FOR ANY MODIFICATIONS BY OTHER DISCIPLINES.
9. **INFILLING OF ROOFING AT PREVIOUS OPENINGS FOR MECHANICAL EQUIPMENT:**
   PORTIONS OF THE EXISTING ROOFING ARE TO BE PARTIALLY DEMOLISHED TO CREATE NEW OPENINGS FOR MECHANICAL EQUIPMENT. ALL NEW OPENINGS IN THE EXISTING ROOFING SHOULD FOLLOW THE STRENGTHENING REQUIREMENTS SET FORTH IN THE STRUCTURAL DETAILS.
   - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SIZE, NUMBER AND LOCATIONS WITH THE MEP AND ARCHITECTURAL DRAWINGS.
10. **NEW HOUSEKEEPING PADS AT NEW MECHANICAL EQUIPMENT:**
    VARIOUS HOUSEKEEPING PADS ON THE SITE ARE SET TO BE DEMOLISHED.
11. **NEW HEADER BRACING AT NEW STOREFRONT:**
    PLANNED NEW STOREFRONT TO BE BRACED AT THE TOP WITH NEW HEADER STEEL. REF PARTIAL PLANS.
12. **NEW MECHANICAL EQUIPMENT ON ROOF:**
    VARIOUS NEW MECHANICAL UNITS AND / OR PIPE SUPPORT BRIDGES ARE SCHEDULED TO BE ADDED TO THE EXISTING ROOF.
13. **NEW EQUIPMENT SCREEN:**
    PLANNED NEW EQUIPMENT SCREEN TO BE CREATED NEAR THE NEW RESTOOM ADDITION AND RENOVATION.



1 COMPOSITE FOUNDATION PLAN
1" = 30'-0"

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JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
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COMPOSITE FOUNDATION SCOPE PLAN

S-101

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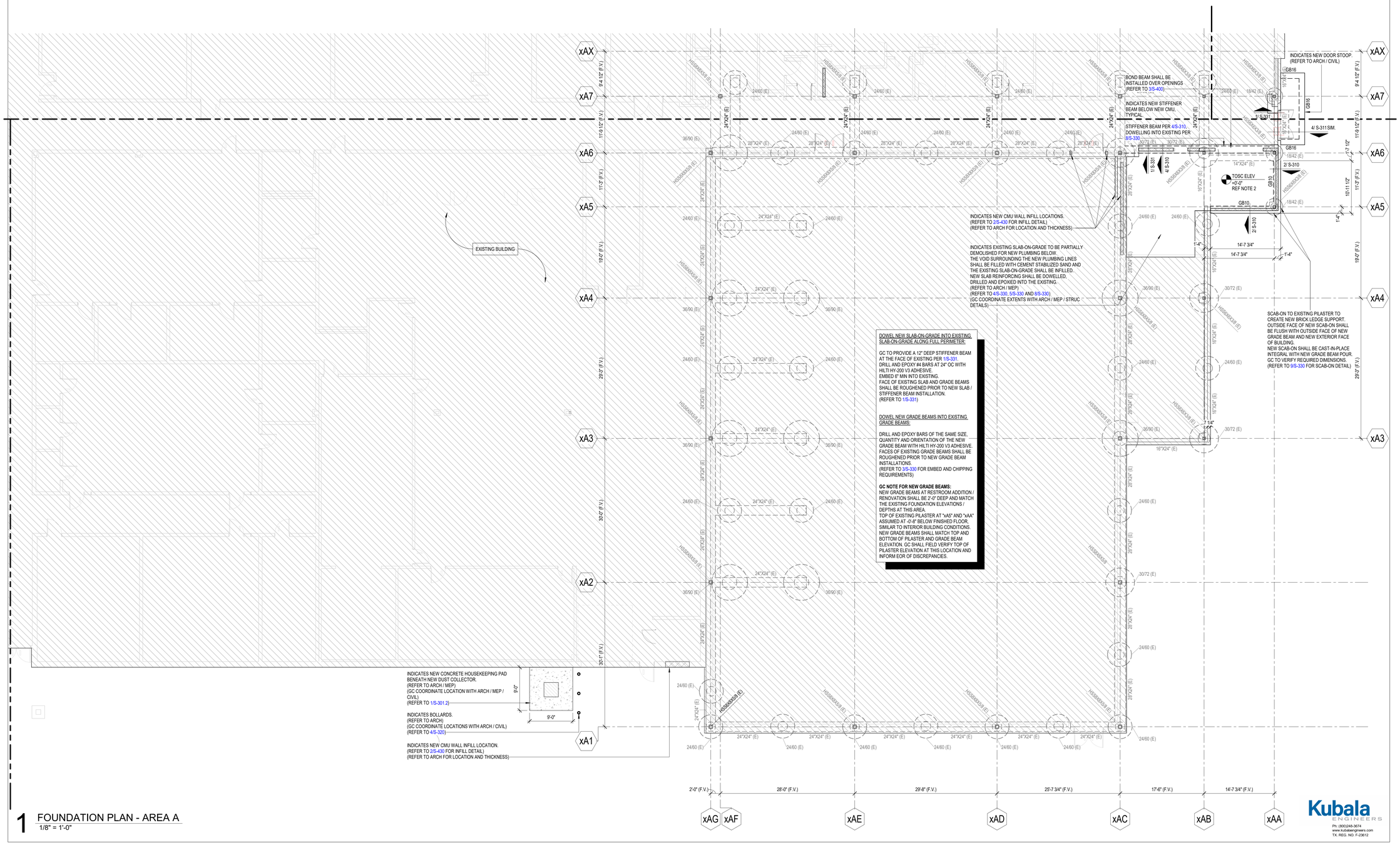
FOUNDATION PLAN - AREA A
S-101A
FOR BLUEBEAM LABELING/OCR:

0"
1"

ISSUE FOR PROPOSAL

FOUNDATION PLAN NOTES

1. REFER TO PLAN FOR TOP OF STRUCTURAL CONCRETE ELEVATIONS (TOSC EL)
   ALL ELEVATIONS SHOWN ON THE PLAN ARE BASED ON A LEVEL ONE REFERENCE ELEVATION = 0'-0". THIS REFERENCE ELEVATION IS EQUIVALENT TO THE LEVEL ONE MEAN SEA LEVEL ELEVATION = REF. CIVIL SHOWN IN THE CIVIL AND ARCHITECTURAL DRAWINGS AND IS NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE.
2. 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH EITHER:
   #3 BARS AT 10" OC EACH WAY, ON 2 3/4" CHAIRS SPACED AT 36" OC EACH WAY, OR,
   #4 BARS AT 16" OC EACH WAY, ON 2 1/2" CHAIRS SPACED AT 36" OC EACH WAY.
   PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO SOIL REPORT.
   FOR SLAB JOINT DETAILS, REFER TO 1/S-301.1 AND 2/S-301.1.
   THE SLAB BARS SHOULD BE POSITIONED 1/2" BELOW THE SLAB SAW CUT, ABOVE THE MID-DEPTH OF SLAB, IDEALLY WITHIN THE UPPER 1/3 PORTION OF THE SLAB.
3.1. TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.
   TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.
3.2. TOP OF INTERIOR / EXTERIOR PLINTH ELEVATION SHALL BE = -1'-0" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -2'-6" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" U.N.O.
   TOP OF EXTERIOR PIER ELEVATION SHALL BE = -3'-6" U.N.O.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS.
   REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.
5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
   REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.
7. GC COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
8. PROVIDE (2) - #5 x 5'-0" LONG BARS IN SLAB AT RE-ENTRANT CORNERS, TYPICAL, INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.
9. GC COORDINATE ALLTHE SIZE AND EXTENTS OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.
10. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYPICAL DETAILS
11. REF S3.xx SERIES DRAWINGS FOR FOUNDATION AND SLAB-ON-GRADE DETAILS.
12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.
13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.
14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
15. REFER TO ARCH AND PLUMBING DWGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES, AND FLOOR DRAINS.
    REF 10/S-301.1 FOR TRENCH DETAIL AND REF 4/S-301.1 FOR FLOOR DRAIN DETAIL.
16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-310, TYPICAL.
    AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-310, TYPICAL.
17. PIERS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND / OR DETAILS SHALL BE LOCATED AS FOLLOWS:
    A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
    B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
    C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS:
       INTERMEDIATE PIERS SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
    D. PIERS SUPPORTING SLABS ON CARTON FORMS:
       UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.
18. GC TO COORDINATE THE LOCATION OF ALL CONCRETE CURBS WITH ARCH DWGS. REF 7/S-301.1 FOR DETAIL, TYPICAL.
19. GC COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCH DWGS.
20. INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS.
    REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
    A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
21. INDICATES NON-STRUCTURAL CMU THAT ARE NOT PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND ARE NOT DESIGNED TO SUPPORTS GRAVITY LOADS.
    REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
    A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.



1 FOUNDATION PLAN - AREA A
1/8" = 1'-0"

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ACOUSTIC
RSDG
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FOOD SERVICE
RSDG
T 281-356-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN
J H G F K E D C B A
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

FOUNDATION PLAN - AREA A

S-101A

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0"
1"

FOUNDATION PLAN - AREA C

S-101C

FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

FOUNDATION PLAN NOTES

1. REFER TO PLAN FOR TOP OF STRUCTURAL CONCRETE ELEVATIONS (TOSC EL)
   ALL ELEVATIONS SHOWN ON THE PLAN ARE BASED ON A LEVEL ONE REFERENCE ELEVATION = 0'-0". THIS REFERENCE ELEVATION IS EQUIVALENT TO THE LEVEL ONE MEAN SEA LEVEL ELEVATION = REF CIVIL SHOWN IN THE CIVIL AND ARCHITECTURAL DRAWINGS AND IS NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE.
2. 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH EITHER:
   #3 BARS AT 10" OC EACH WAY, ON 2 3/4" CHAIRS SPACED AT 36" OC EACH WAY, OR,
   #4 BARS AT 16" OC EACH WAY, ON 2 1/2" CHAIRS SPACED AT 36" OC EACH WAY.
   PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO SOIL REPORT.
   FOR SLAB JOINT DETAILS, REFER TO 1/S-301.1 AND 2/S-301.1.
   THE SLAB BARS SHOULD BE POSITIONED 1/2" BELOW THE SLAB SAW CUT, ABOVE THE MID-DEPTH OF SLAB, IDEALLY WITHIN THE UPPER 1/3 PORTION OF THE SLAB.

3.1. TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.
   TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.

3.2. TOP OF INTERIOR / EXTERIOR PLINTH ELEVATION SHALL BE = -1'-0" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -2'-6" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" U.N.O.
   TOP OF EXTERIOR PIER ELEVATION SHALL BE = -3'-6" U.N.O.

4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS.
   REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.
5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
   REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.
7. GC COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
8. PROVIDE (2) - #5 x 5'-0" LONG BARS IN SLAB AT RE-ENTRANT CORNERS, TYPICAL, INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.
9. GC COORDINATE ALLTHE SIZE AND EXTENTS OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.
10. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYPICAL DETAILS
11. REF S3.xx SERIES DRAWINGS FOR FOUNDATION AND SLAB-ON-GRADE DETAILS.
12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.
13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.
14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
15. REFER TO ARCH AND PLUMBING DWGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES, AND FLOOR DRAINS.
    REF 10/S-301.1 FOR TRENCH DETAIL AND REF 4/S-301.1 FOR FLOOR DRAIN DETAIL.
16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-310, TYPICAL.
    AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-310, TYPICAL.
17. PIERS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND / OR DETAILS SHALL BE LOCATED AS FOLLOWS:
    A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
    B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
    C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS:
       INTERMEDIATE PIERS SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
    D. PIERS SUPPORTING SLABS ON CARTON FORMS:
       UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.
18. GC TO COORDINATE THE LOCATION OF ALL CONCRETE CURBS WITH ARCH DWGS. REF 7/S-301.1 FOR DETAIL, TYPICAL.
19. GC COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCH DWGS.
20. INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS.
    REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
    A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
21. INDICATES NON-STRUCTURAL CMU THAT ARE NOT PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND ARE NOT DESIGNED TO SUPPORTS GRAVITY LOADS.
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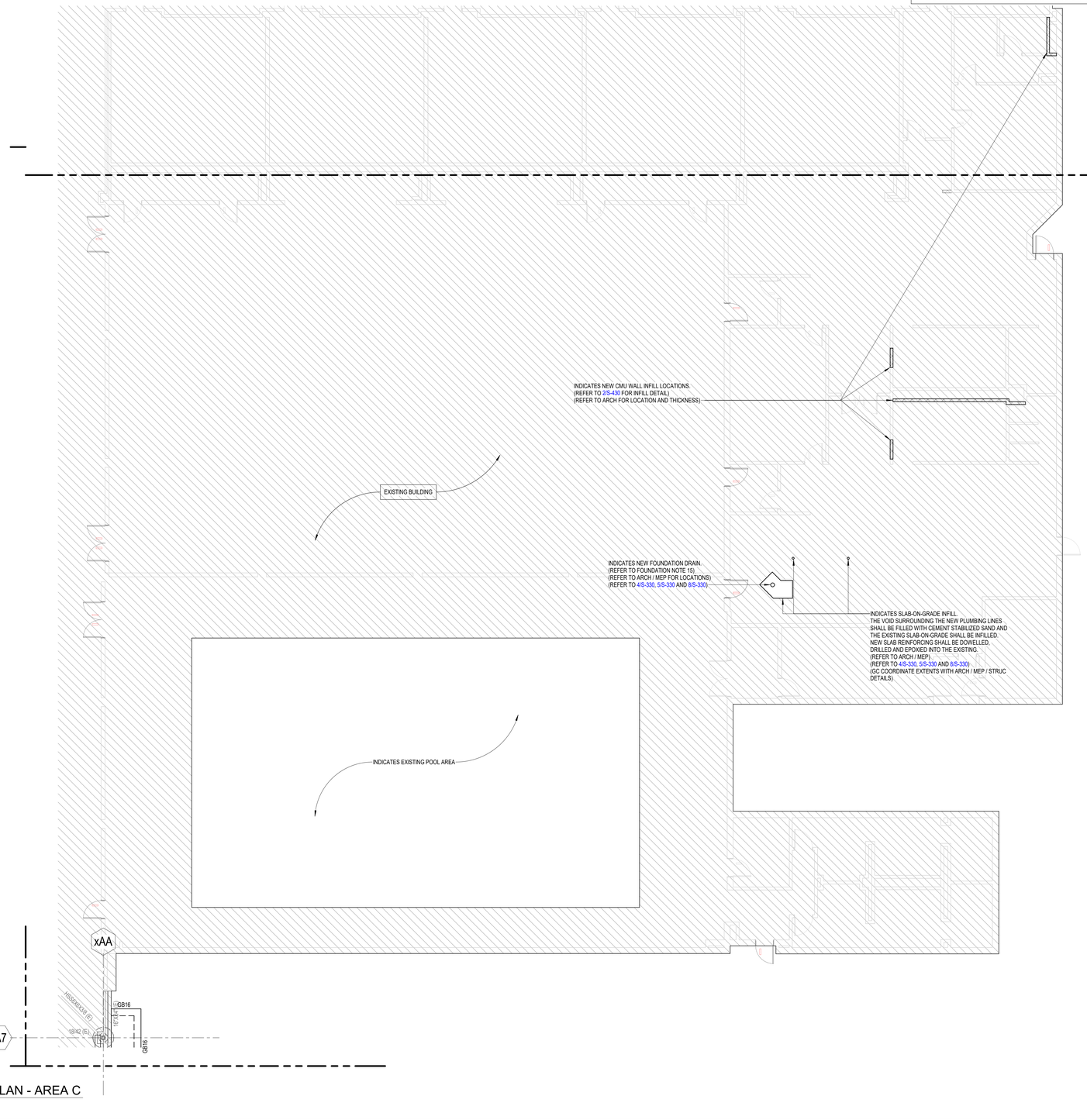

1 FOUNDATION PLAN - AREA C
1/8" = 1'-0"

PBK

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Cy-Fair Independent School District

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02/17/2025	220023

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FOUNDATION PLAN - AREA C

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S-101C

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FOUNDATION PLAN - AREA D

S-101D

FOR BLUEBEAM LABELING/OCR:

0"

1"

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FOUNDATION PLAN NOTES

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EXISTING BUILDING

INDICATES NEW FOUNDATION DRAINS.
(REFER TO FOUNDATION NOTE 15)
(REFER TO ARCH / MEP FOR LOCATIONS)
(REFER TO 4/S-330, 5/S-330 AND 8/S-330)

INDICATES EXISTING SLAB-ON-GRADE INFILL.
THE VOID SURROUNDING THE NEW PLUMBING LINES SHALL BE FILLED WITH CEMENT STABILIZED SAND AND THE EXISTING SLAB-ON-GRADE SHALL BE INFILLED.
NEW SLAB REINFORCING SHALL BE DOWELLED, DRILLED AND EPOXIED INTO THE EXISTING.
(REFER TO ARCH / MEP)
(REFER TO 4/S-330, 5/S-330 AND 8/S-330)
(GC COORDINATE EXTENTS WITH ARCH / MEP / STRUC DETAILS)

INDICATES NEW CMU WALL INFILL LOCATIONS.
(REFER TO 2/S-430 FOR INFILL DETAIL)
(REFER TO ARCH FOR LOCATION AND THICKNESS)

HSS8X8X3/8 (E)
24/60 (E)
20"X4" (E)
xA7
28'-0" (F.V.)
29'-8" (F.V.)
25'-7 3/4" (F.V.)
17'-6" (F.V.)
xAF
xAE
xAD
xAC
xAB

1 FOUNDATION PLAN - AREA D
1/8" = 1'-0"

Kubala ENGINEERS
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www.kubalaengineers.com
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DRAWING HISTORY

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ISSUE FOR PROPOSAL

BUILDING NUMBER

FOUNDATION PLAN - AREA D

S-101D

FOUNDATION PLAN - AREA G

S-101G

FOR BLUEBEAM LABELING/OCR:

0"

1"

ISSUE FOR PROPOSAL

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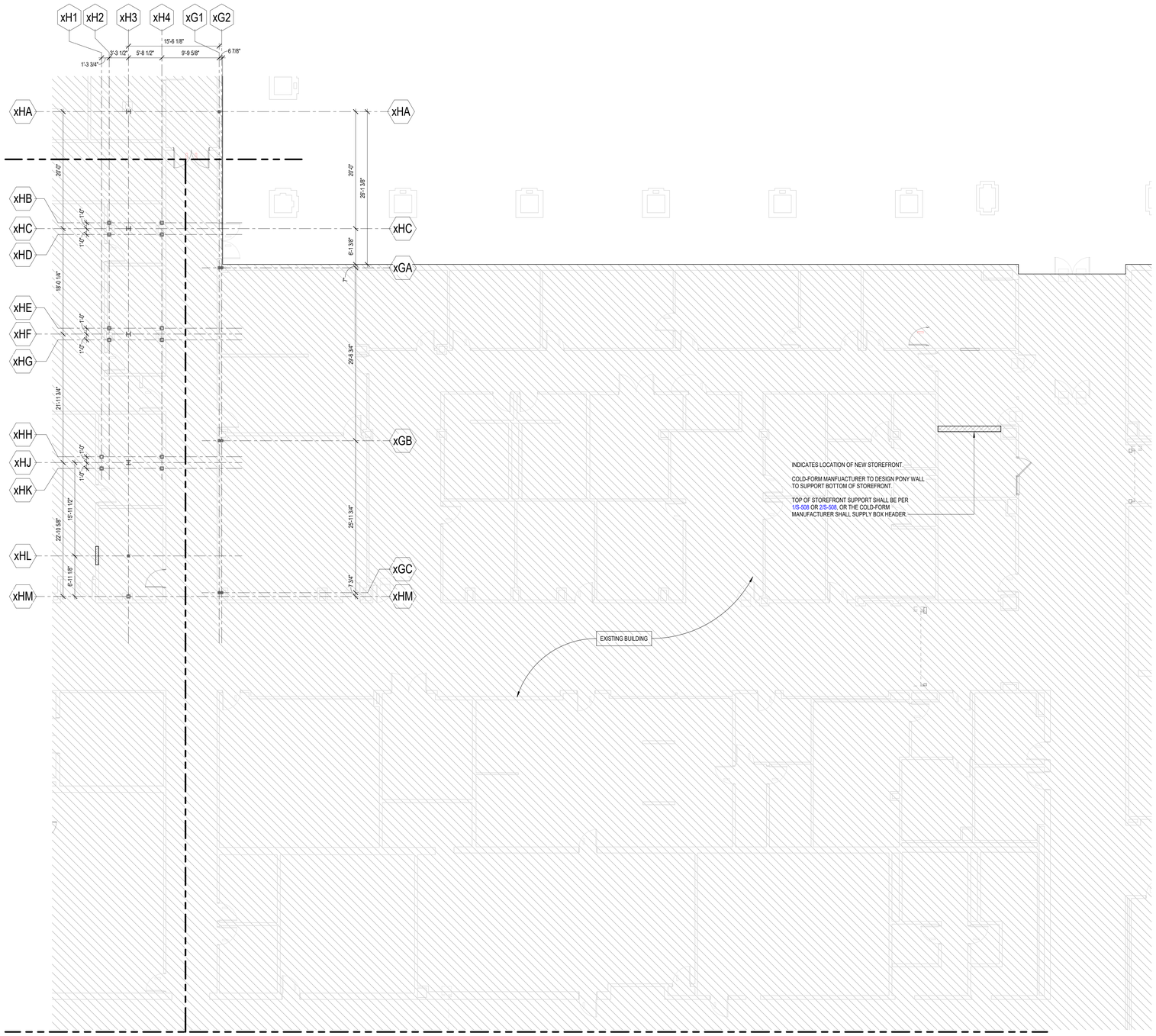

1 FOUNDATION PLAN - AREA G
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PBK

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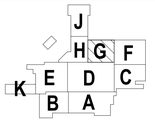
KEY PLAN



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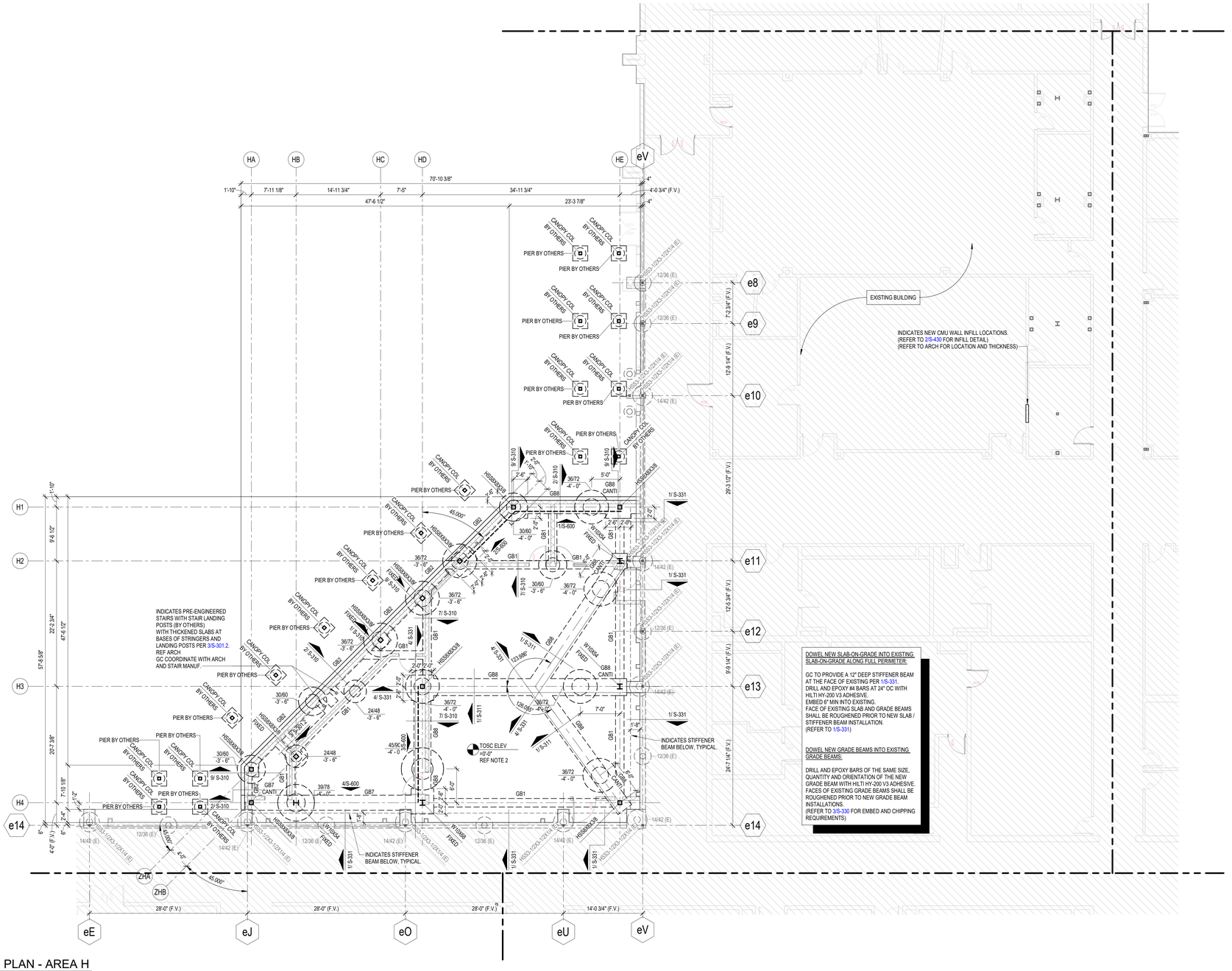
0"
1"

FOUNDATION PLAN - AREA H
S-101H
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

FOUNDATION PLAN NOTES

1. REFER TO PLAN FOR TOP OF STRUCTURAL CONCRETE ELEVATIONS (TOSC EL)
   ALL ELEVATIONS SHOWN ON THE PLAN ARE BASED ON A LEVEL ONE REFERENCE ELEVATION = 0'-0". THIS REFERENCE ELEVATION IS EQUIVALENT TO THE LEVEL ONE MEAN SEA LEVEL ELEVATION = REF. CIVIL SHOWN IN THE CIVIL AND ARCHITECTURAL DRAWINGS AND IS NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE.
2. 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH EITHER:
   #3 BARS AT 10" OC EACH WAY, ON 2 3/4" CHAIRS SPACED AT 36" OC EACH WAY, OR,
   #4 BARS AT 16" OC EACH WAY, ON 2 1/2" CHAIRS SPACED AT 36" OC EACH WAY.
   PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO SOIL REPORT.
   FOR SLAB JOINT DETAILS, REFER TO 1/S-301.1 AND 2/S-301.1.
   THE SLAB BARS SHOULD BE POSITIONED 1/2" BELOW THE SLAB SAW CUT, ABOVE THE MID-DEPTH OF SLAB, IDEALLY WITHIN THE UPPER 1/3 PORTION OF THE SLAB.
3.1. TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.
   TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.
3.2. TOP OF INTERIOR / EXTERIOR PLINTH ELEVATION SHALL BE = -1'-0" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -2'-6" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" U.N.O.
   TOP OF EXTERIOR PIER ELEVATION SHALL BE = -3'-6" U.N.O.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS.
   REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.
5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
   REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.
7. GC COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
8. PROVIDE (2) - #5 x 5'-0" LONG BARS IN SLAB AT RE-ENTRANT CORNERS, TYPICAL, INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.
9. GC COORDINATE ALLTHE SIZE AND EXTENTS OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.
10. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYPICAL DETAILS
11. REF S3.xx SERIES DRAWINGS FOR FOUNDATION AND SLAB-ON-GRADE DETAILS.
12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.
13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.
14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
15. REFER TO ARCH AND PLUMBING DWGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES, AND FLOOR DRAINS.
    REF 10/S-301.1 FOR TRENCH DETAIL AND REF 4/S-301.1 FOR FLOOR DRAIN DETAIL.
16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-310, TYPICAL.
    AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-310, TYPICAL.
17. PIERS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND / OR DETAILS SHALL BE LOCATED AS FOLLOWS:
    A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
    B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
    C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS:
       INTERMEDIATE PIERS SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
    D. PIERS SUPPORTING SLABS ON CARTON FORMS:
       UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.
18. GC TO COORDINATE THE LOCATION OF ALL CONCRETE CURBS WITH ARCH DWGS. REF 7/S-301.1 FOR DETAIL, TYPICAL.
19. GC COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCH DWGS.
20. INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS.
    REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
    A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
21. INDICATES NON-STRUCTURAL CMU THAT ARE NOT PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND ARE NOT DESIGNED TO SUPPORTS GRAVITY LOADS.
    REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
    A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.



DOWEL NEW SLAB-ON-GRADE INTO EXISTING SLAB-ON-GRADE ALONG FULL PERIMETER:

GC TO PROVIDE A 12" DEEP STIFFENER BEAM AT THE FACE OF EXISTING PER 1/S-331. DRILL AND EPOXY #4 BARS AT 24" OC WITH HILTI HY-200 V3 ADHESIVE.
EMBED 6" MIN INTO EXISTING.
FACE OF EXISTING SLAB AND GRADE BEAMS SHALL BE ROUGHENED PRIOR TO NEW SLAB / STIFFENER BEAM INSTALLATION.
(REFER TO 1/S-331)

DOWEL NEW GRADE BEAMS INTO EXISTING GRADE BEAMS:

DRILL AND EPOXY BARS OF THE SAME SIZE, QUANTITY AND ORIENTATION OF THE NEW GRADE BEAM WITH HILTI HY-200 V3 ADHESIVE. FACES OF EXISTING GRADE BEAMS SHALL BE ROUGHENED PRIOR TO NEW GRADE BEAM INSTALLATIONS.
(REFER TO 3/S-330 FOR EMBED AND CHIPPING REQUIREMENTS)

1 FOUNDATION PLAN - AREA H
1/8" = 1'-0"

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Arnold Middle School

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CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

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KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

FOUNDATION PLAN - AREA H

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S-101H

0"
1"

COMPOSITE SECOND FLOOR / LOW ROOF FRAMING SCOPE PLAN
S-102
FOR BLUEBEAM LABELING/OCR:

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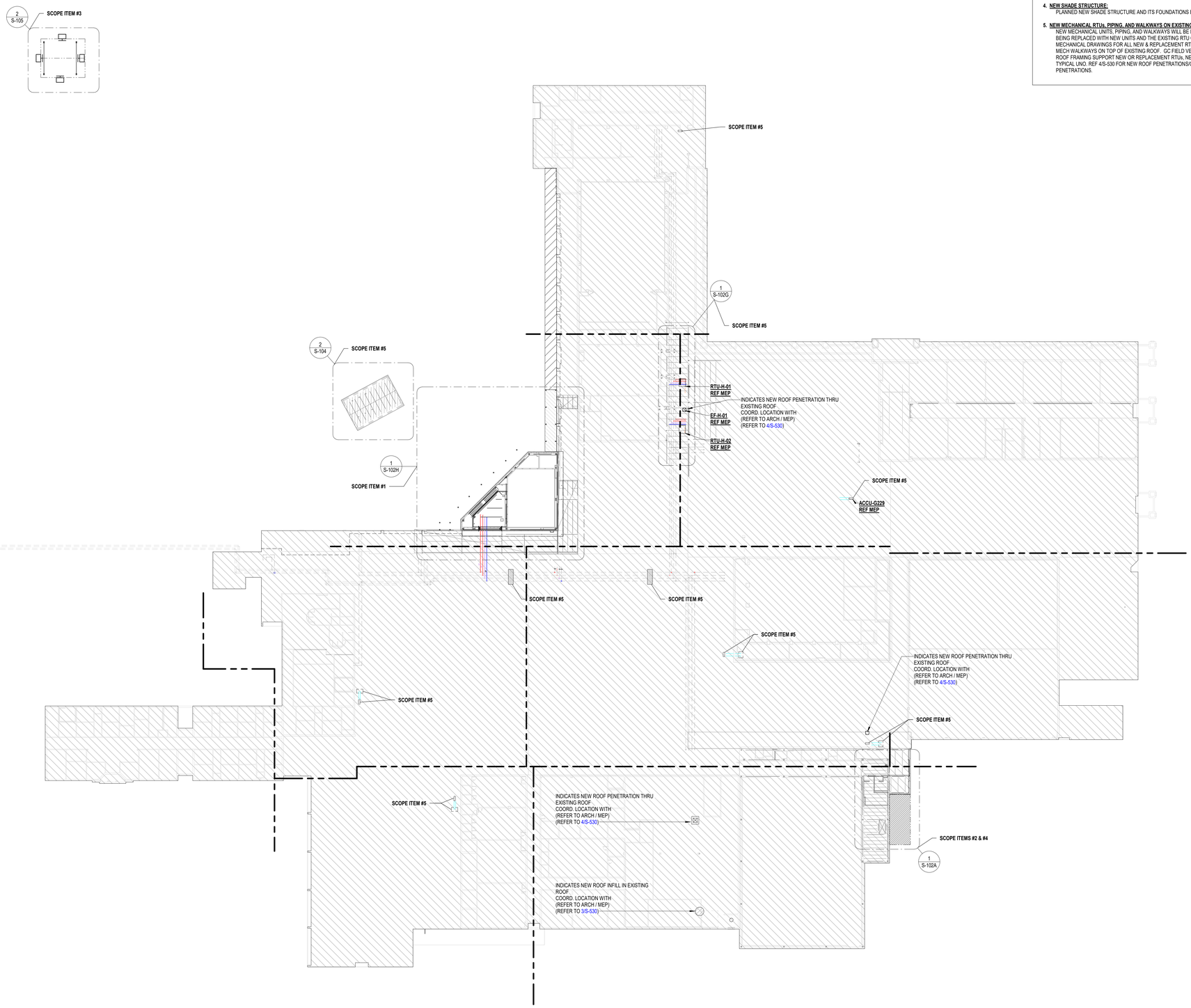
FRAMING SCOPE LEGEND:

1. **NEW ORCHESTRA ADDITION (AREA H):**
   PLANNED NEW CONSTRUCTION TO TAKE PLACE IN THE LOCATION OF THE DEMOLISHED REHEARSAL HALL. REFER TO PARTIAL PLAN FOR MORE INFO.
2. **NEW RESTROOM ADDITION AND RENOVATION (AREA A):**
   PLANNED NEW ADDITIONS AND RENOVATIONS TO TAKE PLACE NEAR THE EXISTING COMPETITION GYM. REFER TO PARTIAL PLAN FOR MORE INFO.
3. **NEW STORAGE BUILDING:**
   PLANNED NEW CONSTRUCTION TO TAKE PLACE NEAR THE EXISTING FOOTBALL FIELD AND TRACK. REFER TO PARTIAL PLAN FOR MORE INFO.
4. **NEW SHADE STRUCTURE:**
   PLANNED NEW SHADE STRUCTURE AND ITS FOUNDATIONS BY OTHERS TO BE CREATED NEAR THE NEW RESTROOM ADDITION AND RENOVATION. REF ARCH.
5. **NEW MECHANICAL RTUs, PIPING, AND WALKWAYS ON EXISTING ROOF**
   NEW MECHANICAL UNITS, PIPING, AND WALKWAYS WILL BE PLACED ON TOP OF EXISTING ROOF. IN SOME CASES EXISTING ROOFTOP UNITS (RTUs) ARE BEING REPLACED WITH NEW UNITS AND THE EXISTING RTU CURB AND OPENINGS WILL BE USED FOR THE NEW RTU. GC COORDINATE WITH MECHANICAL DRAWINGS FOR ALL NEW & REPLACEMENT RTU LOCATIONS, WEIGHTS AND OPENINGS, NEW PIPING ON TOP OF THE EXISTING ROOF, AND NEW MECH WALKWAYS ON TOP OF EXISTING ROOF. GC FIELD VERIFY EXISTING CONDITIONS FOR RTU UNITS SCHEDULED FOR REPLACEMENT. ALL EXISTING ROOF FRAMING SUPPORT NEW OR REPLACEMENT RTUs, NEW PIPING, AND NEW WALKWAYS SHALL BE SUPPORTED AND REINFORCED PER 1/S-530 & 2/S-530, TYPICAL UNO. REF 4/S-530 FOR NEW ROOF PENETRATIONS/OPENINGS IN EXISTING ROOF. REF 3/S-530 FOR TYPICAL INFILL DETAIL AT EXISTING MECHANICAL PENETRATIONS.



1 COMPOSITE SECOND FLOOR / LOW ROOF FRAMING PLAN
1" = 30'-0"

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CONSULTANT NAME
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COMPOSITE SECOND FLOOR / LOW ROOF FRAMING SCOPE PLAN

S-102

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SECOND FLOOR / LOW ROOF FRAMING PLAN - AREA A

S-102A

FOR BLUEBEAM LABELING:OCR:

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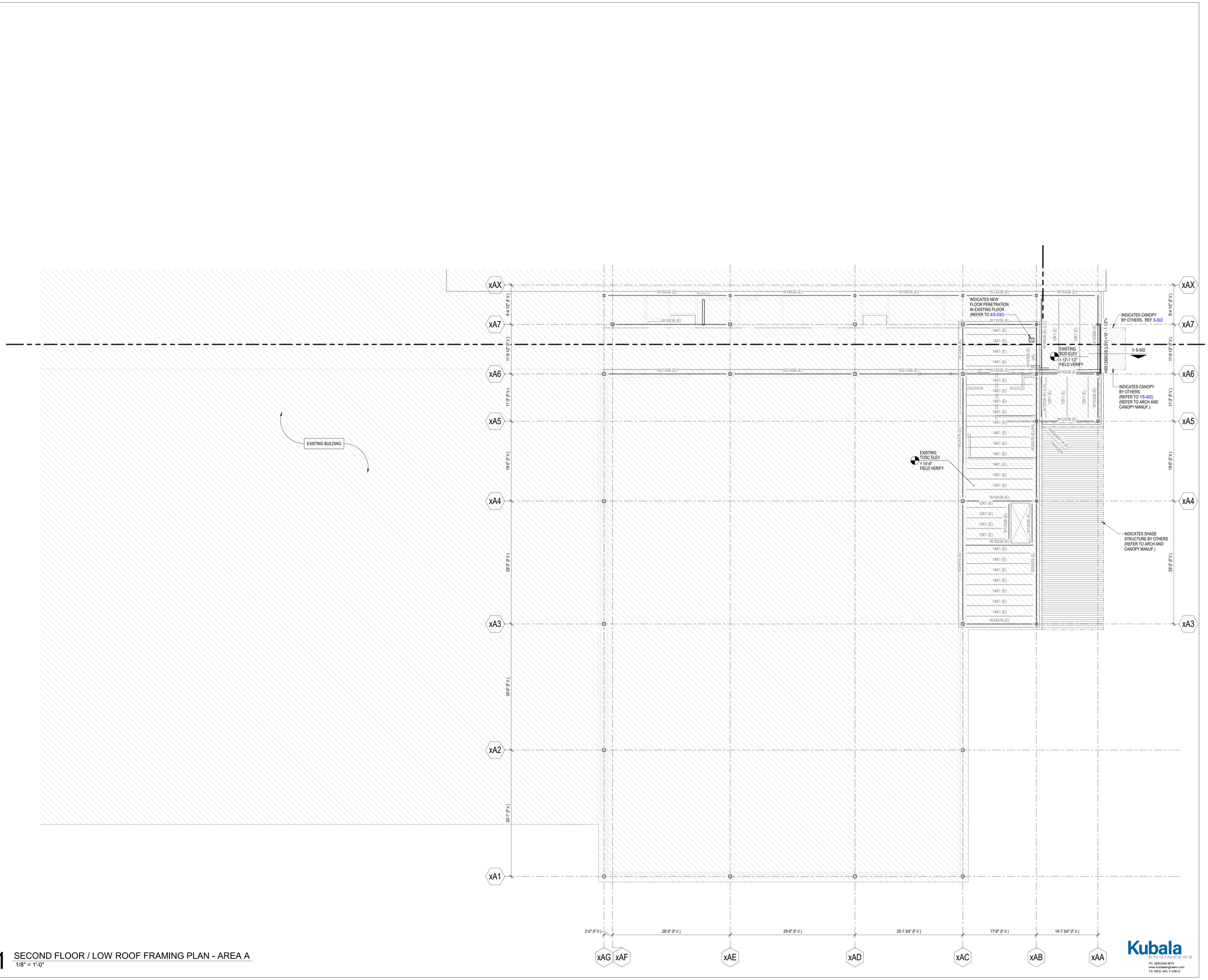

1 SECOND FLOOR / LOW ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"

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SECOND FLOOR / LOW ROOF FRAMING PLAN - AREA A

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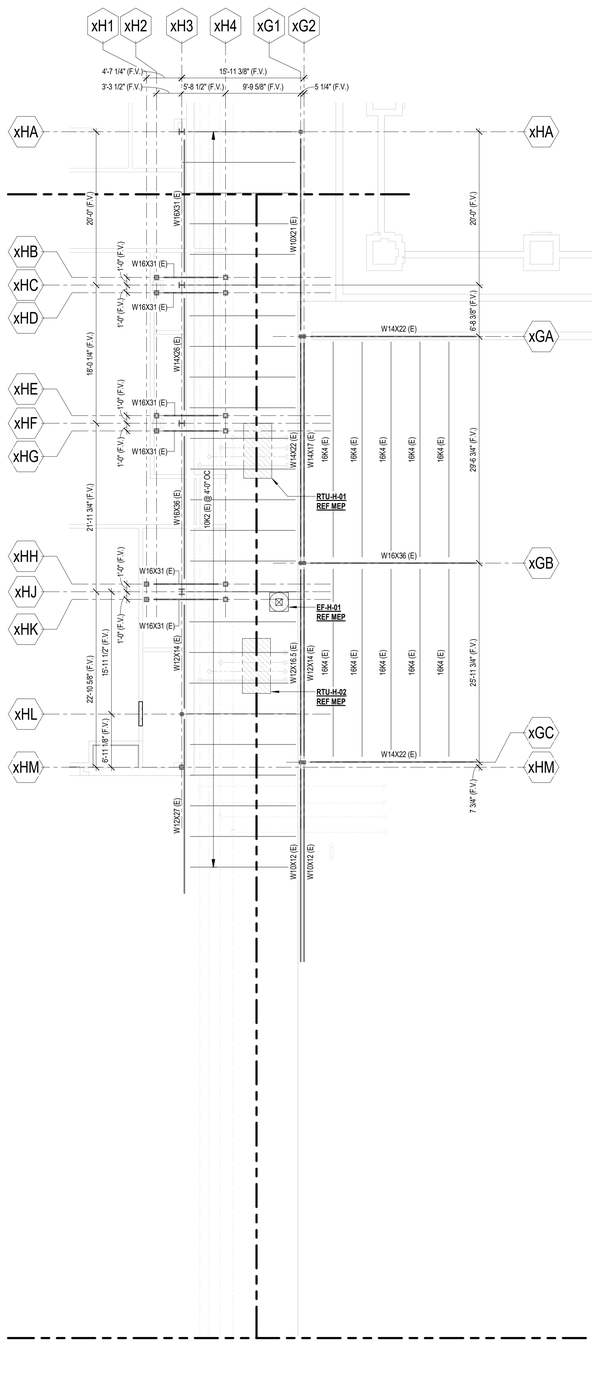
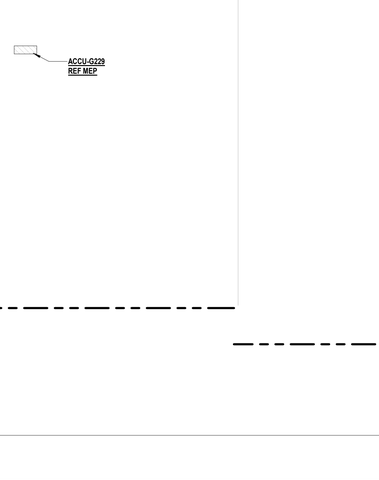
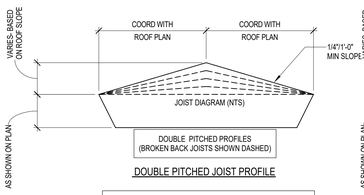
LOW ROOF FRAMING PLAN - AREA G
S-102G
FOR BLUEBEAM LABELING/OCR:

0"
1"



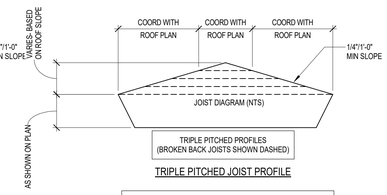


1 LOW ROOF BOD - AREA G
1/8" = 1'-0"



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 ,TYP ALONG ENTIRE GRID AT ALL BRACE FRAMES. NOT SHOWN IN PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— – · ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.xx SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THIER LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5x15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507 .
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADDL DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509 .
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO. TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN). TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402. THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 22 GA (GALV.) (G90) VENTED MTL DECK.

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
3. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

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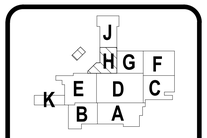
Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

LOW ROOF FRAMING PLAN - AREA G

S-102G

Kubala ENGINEERS
Ph: (800)248-3674
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TX. REG. NO. F-23612

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0"
1"

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
4 1/2" NWC ON 3.0 VLI 2D GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

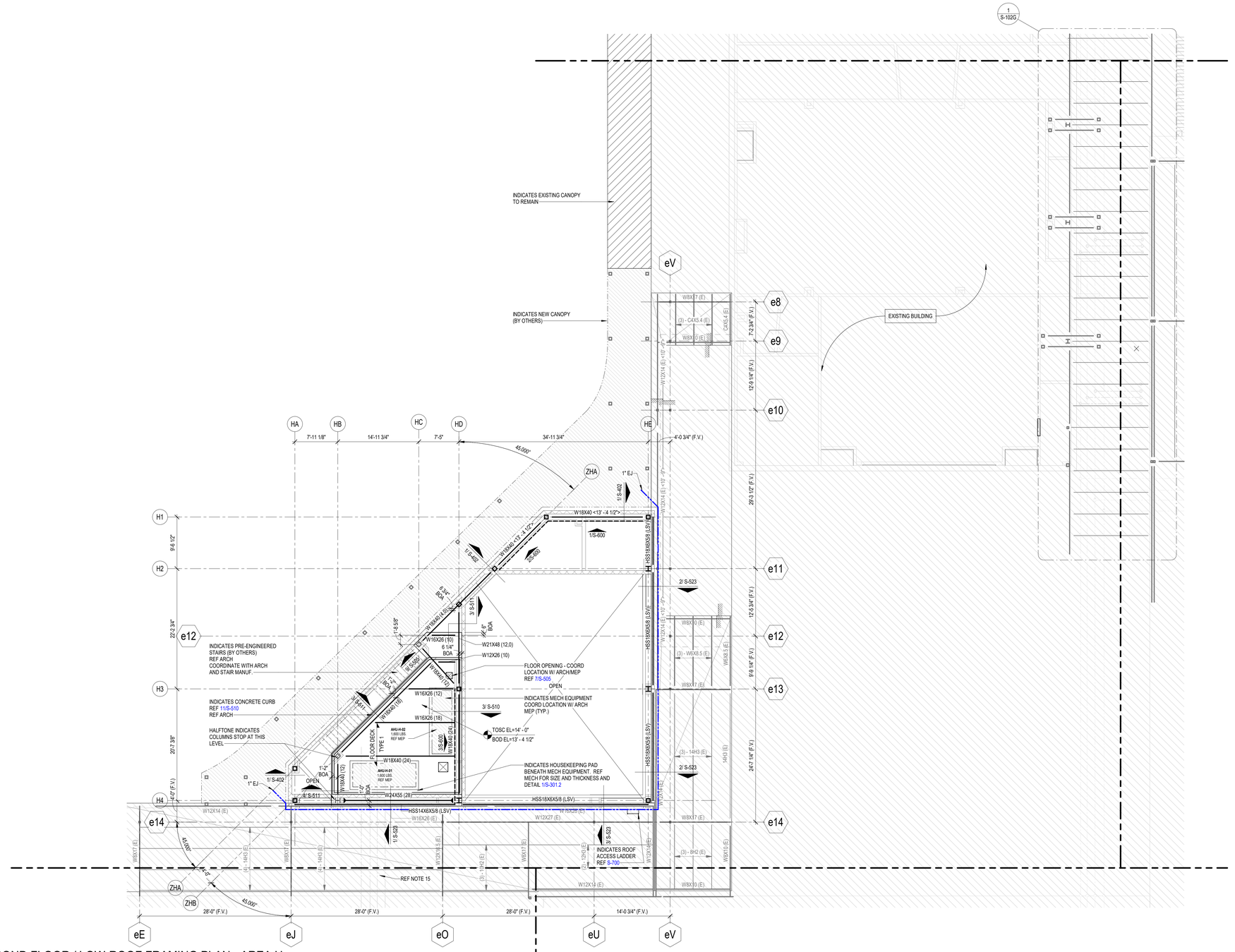
ROOF DECK TYPE 1:
1.0 CSV 22 GA (GALV.) (G90) VENTED MTL DECK.

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
3. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504.
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505 TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505.
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. [CXJXC] - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509.
21. REF DETAIL 5/S-510 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.



1 SECOND FLOOR / LOW ROOF FRAMING PLAN - AREA H
1/8" = 1'-0"

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J H G F K E D C B A

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NORTH: PLAN TRUE

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LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

SECOND FLOOR / LOW ROOF FRAMING PLAN - AREA H

Kubala ENGINEERS
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S-102H

COMPOSITE ROOF FRAMING SCOPE PLAN

S-103

FOR BLUEBEAM LABELING/OCR:

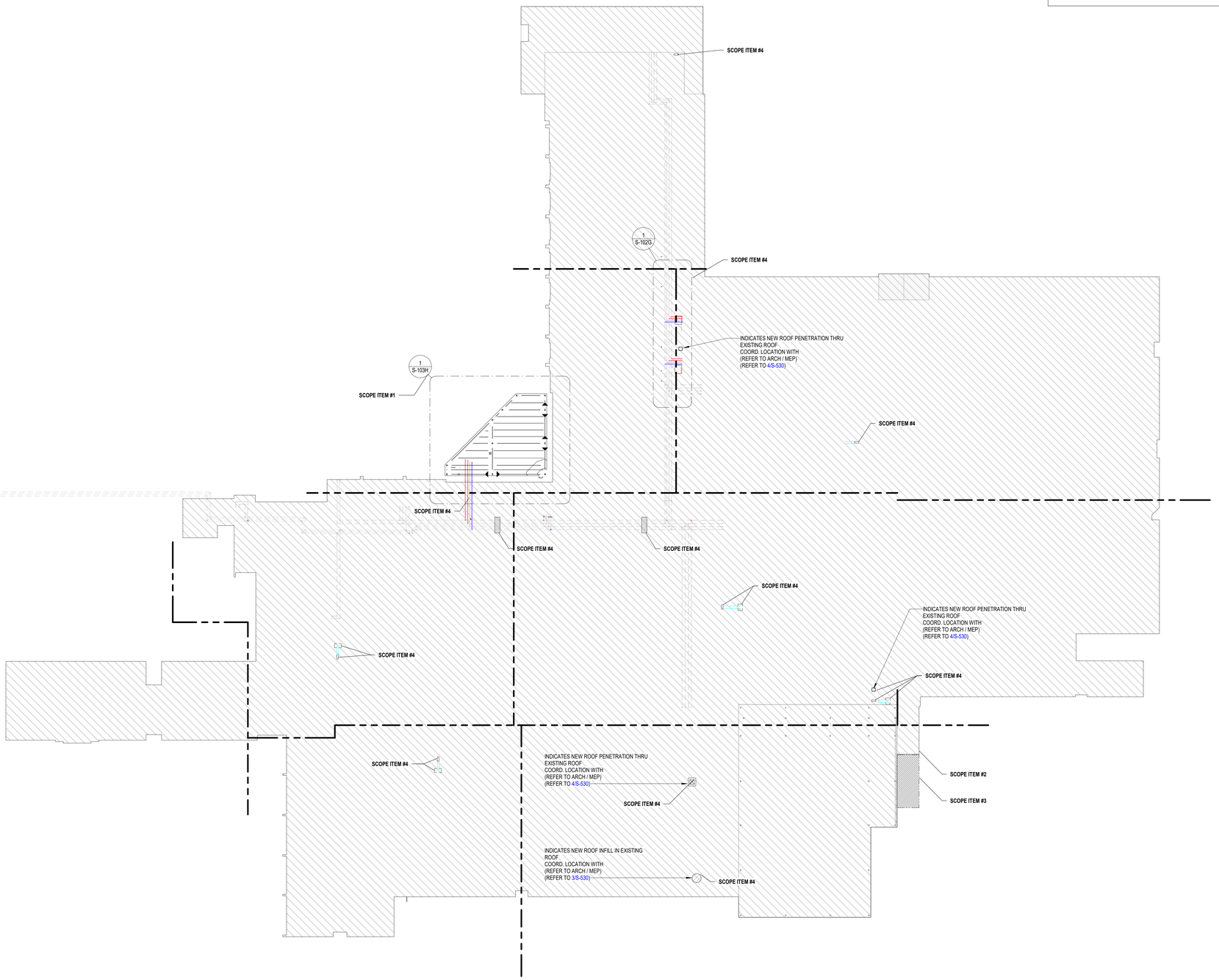
0"

1"

ISSUE FOR PROPOSAL

FRAMING SCOPE LEGEND:

1. **NEW ORCHESTRA ADDITION (AREA H):**
   PLANNED NEW CONSTRUCTION TO TAKE PLACE IN THE LOCATION OF THE DEMOLISHED REHEARSAL HALL. REFER TO PARTIAL PLAN FOR MORE INFO.
2. **NEW RESTROOM ADDITION AND RENOVATION (AREA A):**
   PLANNED NEW ADDITIONS AND RENOVATIONS TO TAKE PLACE NEAR THE EXISTING COMPETITION GYM. REFER TO PARTIAL PLAN FOR MORE INFO.
3. **NEW SHADE STRUCTURE:**
   PLANNED NEW SHADE STRUCTURE AND ITS FOUNDATIONS BY OTHERS TO BE CREATED NEAR THE NEW RESTOOM ADDITION AND RENOVATION. REF ARCH.
4. **NEW MECHANICAL RTUs, PIPING, AND WALKWAYS ON EXISTING ROOF**
   NEW MECHANICAL UNITS, PIPING, AND WALKWAYS WILL BE PLACED ON TOP OF EXISTING ROOF. IN SOME CASES EXISTING ROOFTOP UNITS (RTUs) ARE BEING REPLACED WITH NEW UNITS AND THE EXISTING RTU CURB AND OPENINGS WILL BE USED FOR THE NEW RTU. GC COORDINATE WITH MECHANICAL DRAWINGS FOR ALL NEW & REPLACEMENT RTU LOCATIONS, WEIGHTS AND OPENINGS, NEW PIPING ON TOP OF THE EXISTING ROOF, AND NEW MECH WALKWAYS ON TOP OF EXISTING ROOF. GC FIELD VERIFY EXISTING CONDITIONS FOR RTU UNITS SCHEDULED FOR REPLACEMENT. ALL EXISTING ROOF FRAMING SUPPORT NEW OR REPLACEMENT RTUs, NEW PIPING, AND NEW WALKWAYS SHALL BE SUPPORTED AND REINFORCED PER 1/S-530 & 2/S-530, TYPICAL UNO. REF 4/S-530 FOR NEW ROOF PENETRATIONS/OPENINGS IN EXISTING ROOF. REF 3/S-530 FOR TYPICAL INFILL DETAIL AT EXISTING MECHANICAL PENETRATIONS.



1 COMPOSITE ROOF FRAMING PLAN
1" = 30'-0"

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COMPOSITE ROOF FRAMING SCOPE PLAN

S-103

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ROOF FRAMING PLAN - AREA H

S-103H

FOR BLUEBEAM LABELING/OCR:

0" 1"

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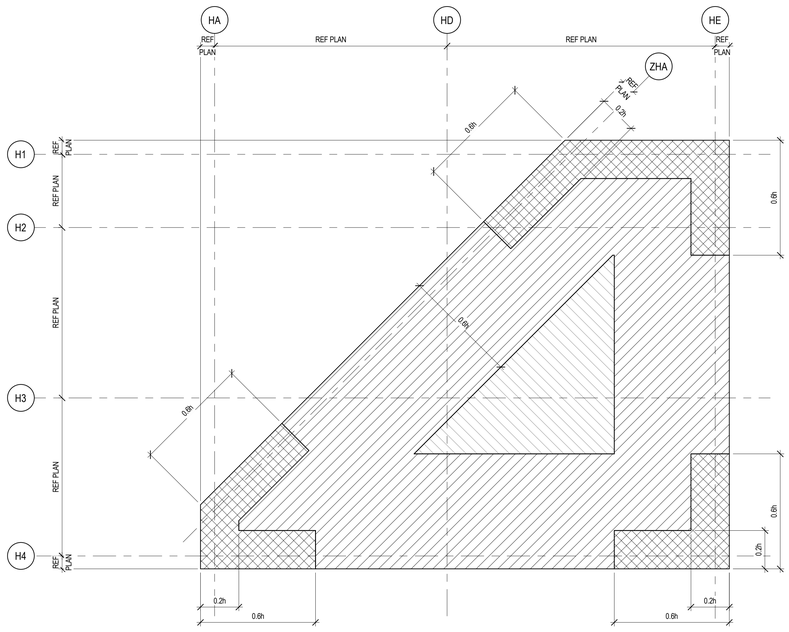
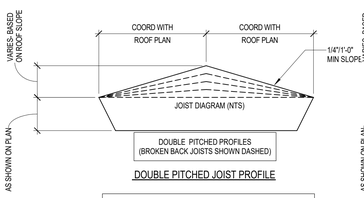


ASCE 7-16

2 COMPONENTS AND CLADDING ROOF UPLIFT DIAGRAM - AREA H
1/8" = 1'-0"

UPLIFT ZONE LOCATION LEGEND

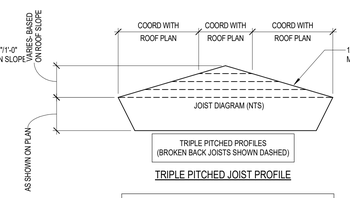
- INTERIOR ZONE 1
- END ZONE 2
- CORNER ZONE 3



DOUBLE PITCHED PROFILES (BROKEN BACK JOISTS SHOWN DASHED)

DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



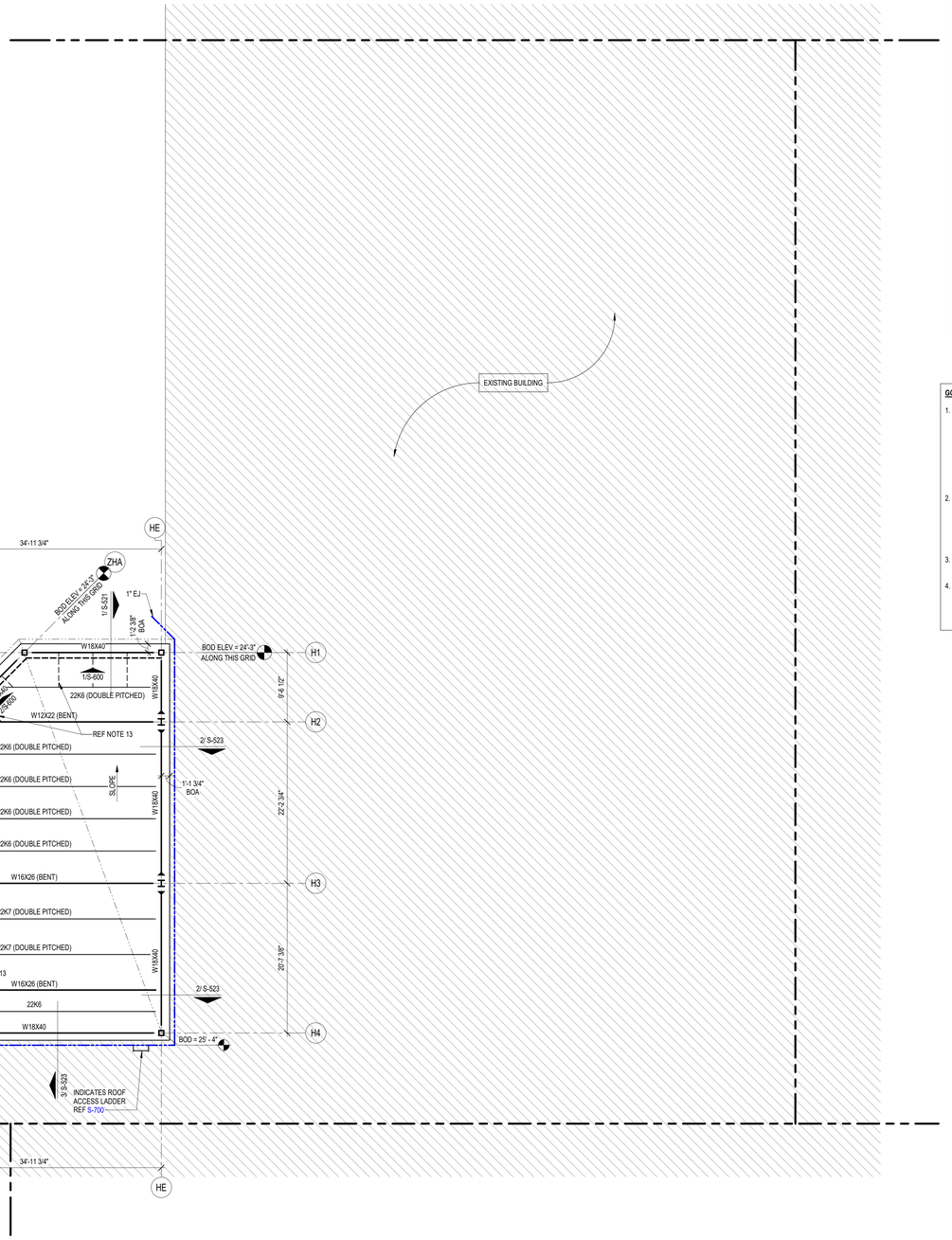
TRIPLE PITCHED PROFILES (BROKEN BACK JOISTS SHOWN DASHED)

TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 ,TYP ALONG ENTIRE GRID AT ALL BRACE FRAMES. NOT SHOWN IN PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.xx SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THIER LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5x15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507 .
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADDTL DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509 .
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO. TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN). TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.



1 ROOF FRAMING PLAN - AREA H
1/8" = 1'-0"

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402. THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 22 GA (GALV.) (G90) VENTED MTL DECK.

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
3. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

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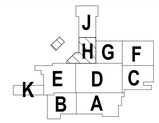

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ROOF FRAMING PLAN - AREA H

S-103H

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0"
1"

BOILER ROOM PLANS

S-104

FOR BLUEBEAM LABELING/OCR:

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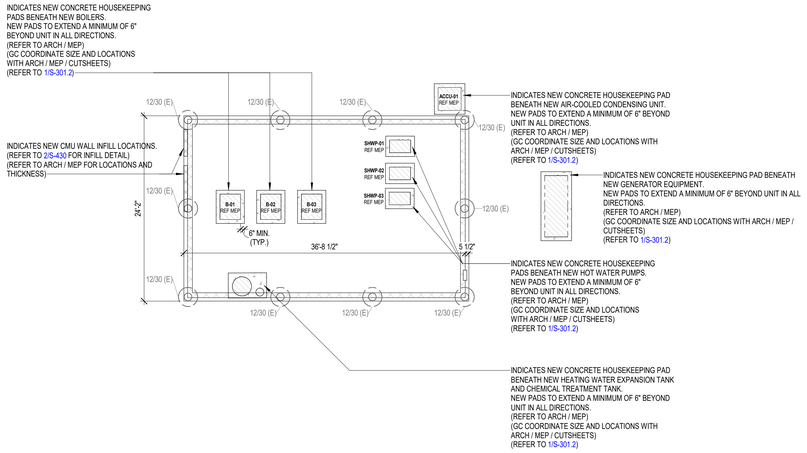
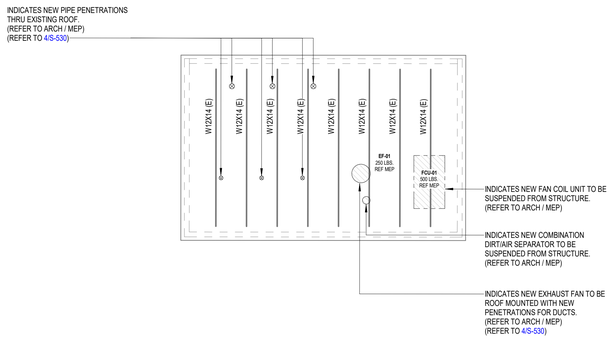


1 FOUNDATION PLAN - BOILER ROOM
1/8" = 1'-0"



2 ROOF FRAMING PLAN - BOILER ROOM
1/8" = 1'-0"

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL, METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.

DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PRE-DEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.

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NORTH: PLAN TRUE

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DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

BOILER ROOM PLANS

S-104

ISSUE FOR PROPOSAL

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STORAGE BUILDING PLANS

S-105

FOR BLUEBEAM LABELING OCR:

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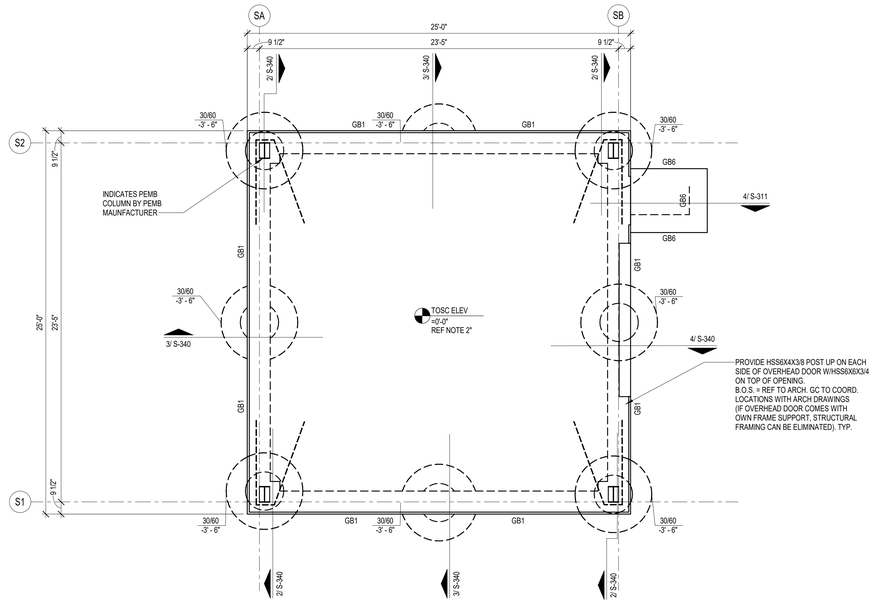
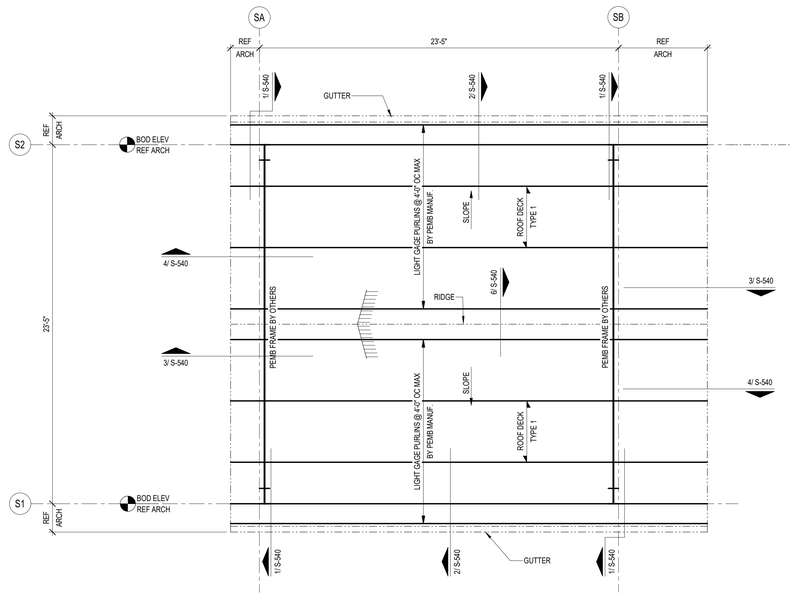
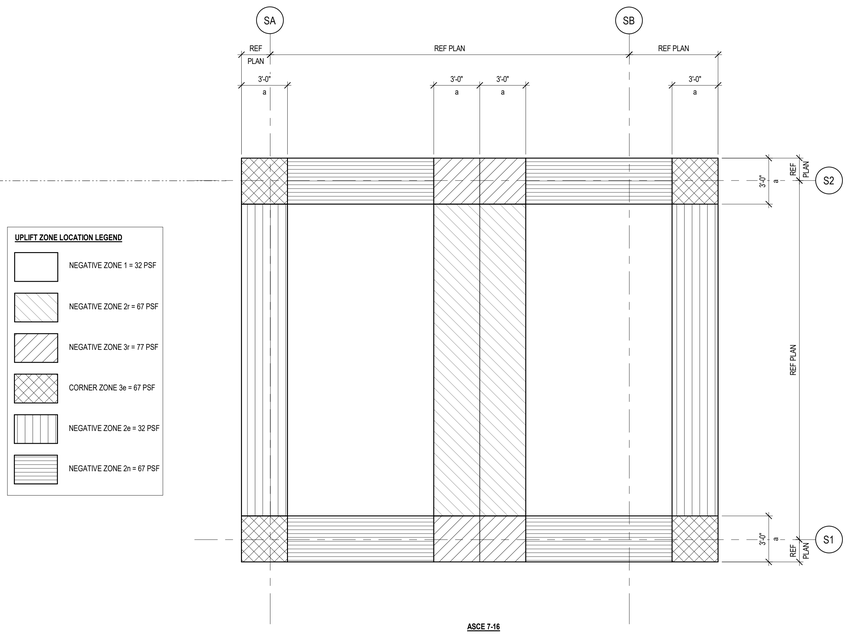


1 FOUNDATION PLAN - STORAGE BUILDING
1/4" = 1'-0"



2 SCHEMATIC ROOF FRAMING PLAN - STORAGE BUILDING
1/4" = 1'-0"



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3 COMPONENTS AND CLADDING ROOF UPLIFT DIAGRAM - STORAGE BUILDING
1/4" = 1'-0"

*****GC AND PEMB MANUF NOTE*****

KUBALA ENGINEERS HAS MADE SIGNIFICANT EFFORTS TO SHOW AS MUCH OF THE REQUIRED MISCELLANEOUS STEEL AS POSSIBLE TO AID THE PEMB MANUFACTURER IN DETERMINING THEIR SCOPE OF WORK; HOWEVER, NOT ALL MISCELLANEOUS ITEMS ARE SHOWN, AND THE GENERAL CONTRACTOR AND THEIR SELECTED PRE-ENGINEERED METAL BUILDING MANUFACTURER ARE HEREBY INFORMED THAT THEY ARE SOLELY RESPONSIBLE FOR COMPLETELY REVIEWING ALL DRAWINGS AND SPECIFICATIONS FROM ALL DISCIPLINES AND ENSURING THAT PROPER SUPPORT FOR ALL ITEMS HAVE ADEQUATE SUPPORT, THIS INCLUDES BUT IS NOT LIMITED TO: CEILINGS AND CEILING ASSEMBLIES, WALLS AND WALL ASSEMBLIES, STOREFRONTS AND STOREFRONT ASSEMBLIES, WINDOWS, DOORS, FOLDING PARTITIONS, MEP EQUIPMENT, AND VARIOUS STORM PIPING AND HYDRONIC PIPING RUNS, SUSPENDED ELECTRICAL COMPONENTS, SUSPENDED KITCHEN EQUIPMENT AND VENT HOODS, ARCHITECTURAL FINISHES/CLADDINGS, FURR-DOWNS, ROOF TOP EQUIPMENT, ROOF TOP SCREEN-WALLS, ROOF HATCHES.

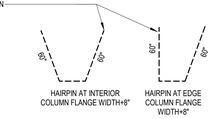
*****GC AND PEMB MAUF. NOTE*****

1. GC AND PEMB MANUF SHALL COORDINATE THE LOCATION OF MECH PENETRATIONS AND FRAMING AROUND THEM W/MEP AND ARCH DRAWINGS.
2. PEMB MNUF. PROVIDE THE ROOF FRAMING AND SIZES
3. PEMB MANUFACTURER SHALL COORDINATE WITH ARCH AND OTHER CONSULTANT DRAWINGS FOR THE REQUIRED MISCELLANEOUS STEELS AND DESIGN THEM ACCORDINGLY.
4. GC AND PEMB MANUF SHALL COORDINATE THE BEAM SIZES AND MIN. REQUIRED CLEAR SPACE BETWEEN SECOND FLOOR AND ROOF FRAMING ABOVE THE SECOND FLOOR WITH MEP AND ARCH DWGS TO AVOID ANY CONFLICTS.
5. ALL PEMB FRAMINGS AND PURLINS ALONG HYDRONIC PIPES RUN SHALL BE DESIGNED FOR SUSPENDED PIPE WEIGHT. IT'S THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE LOCATION, SIZES AND HOW OFTEN PIPES WILL BE HUNG (5'-0" OC OR 10'-0" OC) SO THAT PROPER LOADING MAY BE ACCOUNTED FOR. IT IS RECOMMENDED TO HANG FROM EACH JOIST (GC MUST COORDINATE WITH MEP CONTRACTOR TO ENSURE SAME HANGING PATTERN IS FOLLOWED)

GC NOTE:

THE PORTAL FRAME LOCATIONS SHOWN ON PLAN ARE FOR REFERENCE ONLY; GC SHALL COORDINATE THE ACTUAL LOCATION WITH ARCHITECTURE AND PRE-ENGINEERED METAL BUILDING DRAWINGS; TYPICAL FOR ALL BUILDINGS

(2) -#5 HAIRPIN AT EACH COLUMN LOCATION; REF PLAN



HAIRPIN LEGEND

FOUNDATION PLAN NOTES

1. REFER TO PLAN FOR TOP OF STRUCTURAL CONCRETE ELEVATIONS (TOSC EL). ALL ELEVATIONS SHOWN ON THE PLAN ARE BASED ON A LEVEL ONE REFERENCE ELEVATION = 0'-0". THIS REFERENCE ELEVATION IS EQUIVALENT TO THE LEVEL ONE MEAN SEA LEVEL ELEVATION = REF CIVIL SHOWN IN THE CIVIL AND ARCHITECTURAL DRAWINGS AND IS NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE.
2. 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH EITHER:
   #3 BARS AT 10" OC EACH WAY, ON 2 3/4" CHAIRS SPACED AT 36" OC EACH WAY, OR,
   #4 BARS AT 18" OC EACH WAY, ON 2 1/2" CHAIRS SPACED AT 36" OC EACH WAY.
   PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO SOIL REPORT.
   FOR SLAB JOINT DETAILS, REFER TO 1/S-301.1 AND 2/S-301.1.
   THE SLAB BARS SHOULD BE POSITIONED 1/2" BELOW THE SLAB SAW CUT, ABOVE THE MID-DEPTH OF SLAB, IDEALLY WITHIN THE UPPER 1/3 PORTION OF THE SLAB.

3.1. TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.
   TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" U.N.O.

3.2. TOP OF INTERIOR / EXTERIOR PLINTH ELEVATION SHALL BE = -1'-0" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -3'-6" U.N.O.
   TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" U.N.O.
   TOP OF EXTERIOR PIER ELEVATION SHALL BE = -3'-6" U.N.O.

4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS.
   REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.
5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
   REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.
7. GC COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
8. PROVIDE (2) - #5 x 5'-0" LONG BARS IN SLAB AT RE-ENTRANT CORNERS, TYPICAL. INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.
9. GC COORDINATE ALLTHE SIZE AND EXTENTS OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.
10. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYPICAL DETAILS
11. REF S3.xx SERIES DRAWINGS FOR FOUNDATION AND SLAB-ON-GRADE DETAILS.
12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.
13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.
14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
15. REFER TO ARCH AND PLUMBING DWGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES, AND FLOOR DRAINS.
    REF 10/S-301.1 FOR TRENCH DETAIL AND REF 4/S-301.1 FOR FLOOR DRAIN DETAIL.
16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-310, TYPICAL.
    AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-310, TYPICAL.
17. PIERS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND / OR DETAILS SHALL BE LOCATED AS FOLLOWS:
    A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
    B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
    C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
    D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.
18. GC TO COORDINATE THE LOCATION OF ALL CONCRETE CURBS WITH ARCH DWGS. REF 7/S-301.1 FOR DETAIL, TYPICAL.
19. GC COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCH DWGS.
20. [redacted] INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS.
    REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
    A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
21. [redacted] INDICATES NON-STRUCTURAL CMU THAT ARE ARE NOT PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND ARE NOT DESIGNED TO SUPPORTS GRAVITY LOADS.
    REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU.
    A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

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KEY PLAN
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DATE	PROJECT NUMBER
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BUILDING NUMBER

STORAGE BUILDING PLANS

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CONCRETE MIX:

1. CONCRETE SPECIFICATIONS SHALL BE AS FOLLOWS:

USAGE	CONCRETE MIX DESIGN SCHEDULE										
	28 DAY STRENGTH (PSI)				MAX AGGREGATE SIZE (IN)	SLUMP (IN)	MAX W/C RATIO	MAX CURE DENSITY (PCF)	CEMENT TYPE	MAX ALLOWABLE % FLY ASH (REF CM5)	% AIR ENTRAINMENT
	3000	3500	4000	5000							
1. PIERS			•		1 1/2	6-8	0.55	150	I / II	40	-
2. FOOTINGS			•		1	3-5	0.50	150	I / II	30	5
3. SLAB-ON-GRADE **			•		1	3-5	0.50	150	I / II	20	-
4. GRADE BEAMS AND PLINTHS **			•		1	3-5	0.50	150	I / II	20	-
5. COLUMNS			•		1	3-5	0.50	150	I / II	20	-
6. BEAMS			•		1	3-5	0.50	150	I / II	20	-
7. WALLS **			•		1	6-8	0.50	150	I / II	30	5
8. BASEMENT WALLS **				•	1	6-8	0.50	150	I / II	30	-
9. RETAINING WALLS **				•	1	6-8	0.50	150	I / II	20	3-5
10. TILT-UP PANELS **				•	3/4"	3-5	0.50	150	I / II	15	2-4
11. NORMAL WEIGHT SLAB ON COMPOSITE METAL DECK			•		1	3-5	0.45	150	I / II	20	-
12. LIGHT WEIGHT SLAB ON COMPOSITE METAL DECK			•		1	3-5	0.45	117 ± 3	I / II	20	5.5
13. SLAB-ON-VOID FORMS **			•		1	3-5	0.50	150	I / II	20	-
14. SLAB FOR EQUIPMENT PADS			•		1	3-5	0.45	150	I / II	20	5- 7 IF EXPOSED TO WEATHER
15. MASS CONCRETE(ALSO REFER TO MASS CONCRETE NOTES AT 56 DAYS)			•		1	3-5	0.40	150	II	40	-
16. NON-COMPOSITE TOPPING SLAB		•			1	5-7	0.45	150	I / II	-	-

**** - SPECIAL GC NOTE FOR CONCRETE WHICH IS PART OF A DEPRESSED AREA. SEE CONCRETE MIX NOTE 10.**

2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, OF TYPES NOTED IN SCHEDULE. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C33. LIGHT WEIGHT AGGREGATE SHALL CONFORM TO ASTM C330. ALL AGGREGATE SHALL BE FROM A SINGLE SOURCE.
3. FLY ASH WILL NOT BE PERMITTED IN ARCHITECTURALLY EXPOSED CONCRETE. FLY ASH MAY BE USED ELSEWHERE, WITHIN THE SPECIFIED PROPORTION LIMITS, BUT THE CONTRACTOR SHALL FIRST VERIFY COMPATIBILITY WITH CURING COMPOUNDS, SEALERS, BOND BREAKER, FLOORING ADHESIVES AND OTHER MATERIALS PROPOSED TO BE IN CONTACT WITH THE CONCRETE.
4. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW A MINIMUM OF 7 DAYS PRIOR TO THE START OF THE WORK FOR ENGINEER AND OWNERS TESTING LABORATORY APPROVAL, PRIOR TO THE PLACEMENT OF CONCRETE. MIX DESIGNS MUST INDICATE CONFORMANCE WITH ACI 301 SPECIFICATION, SECTION 4.2.3.
5. AT THE POINT OF DISCHARGE SLUMP TESTS, CONFORMING TO ASTM C143, SHALL BE TAKEN. SEE CONCRETE NOTE NO. 5 BELOW FOR RATE OF TESTS.
6. AIR CONTENT TESTS CONFORMING TO ASTM C173 (VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C231 PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE) SHALL BE TAKEN FOR EACH DAY'S POUR FOR ALL TYPES OF AIR-ENTRAINED CONCRETE BEING USED.
7. CONCRETE TEMPERATURE SHALL BE TESTED HOURLY WHEN THE AIR TEMPERATURE IS 40 DEG F AND BELOW, 80 DEG F AND ABOVE AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE MADE.
8. ONE SET OF FOUR COMPRESSION TEST SPECIMENS CONFORMING TO ASTM C31 SHALL BE MOLDED AND STORED FOR LABORATORY-CURED SPECIMENS. COMPRESSIVE STRENGTH TESTS SHALL CONFORM TO ASTM C39 AND SHALL CONSIST OF ONE SET FOR EACH DAY'S POUR EXCEEDING 5 CU. YDS. PLUS ADDITIONAL SETS FOR EACH 50 CU. YDS. MORE THAN THE FIRST 25 CU. YDS OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY. ONE SPECIMEN SHALL BE TESTED AT 7 DAYS, TWO SPECIMENS SHALL BE TESTED AT 28 DAYS, AND ONE SPECIMEN SHALL BE RETAINED FOR LATER TESTING AS REQUIRED.
9. VERIFY THAT POST INSTALLED ANCHORS ARE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
10. **SPECIAL GC NOTE FOR CONCRETE WHICH IS PART OF A DEPRESSED AREA:**
    A. AT ALL DEPRESSIONS GREATER THAN OR EQUAL TO MINUS 6 INCHES FROM THE MAIN FINISH FLOOR THE GC SHALL PROVIDE XYPEX C-500 ADMIXTURE (AT AN ASSUMED MINIMUM RATE OF 15 LBS/CU YD) INTO ALL OF THE CONCRETE. THE ADMIXTURE SHALL BE PLACED INTO THE MIX AT THE TIME OF BATCHING AT THE PLANT, DO NOT ADD DRY BAG MIX TO THE WET CONCRETE TRUCK ON-SITE. THE GC SHALL STRICTLY FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR ADDITION, USE, HANDLING, ETC. THE ADD MIXTURE SHALL BE ADDED TO ALL OF THE CONCRETE WHICH MAKES UP ANY DEPRESSION GREATER THAN OR EQUAL TO MINUS 6 INCHES FROM THE MAIN FINISH FLOOR, THIS INCLUDES BUT IS NOT LIMITED TO: DEPRESSED SLABS (FULL THICKNESS), ALL VERTICAL STEM WALLS (FULL THICKNESS) AND/OR ANY GRADE BEAMS (FULL DEPTH AND THICKNESS) WHICH FORM ANY PORTION OF THE VERTICAL DROP AND ALL HORIZONTAL SLAB FOR THE DEPRESSED AREA. THIS DOES NOT REDUCE OR REVISE ANY WATERPROOFING TREATMENTS, LAYERS OR SUBSTRATES THAT ARE CURRENTLY REQUIRED BY THE STRUCTURAL, ARCHITECTURAL, AND/OR OTHER CONSULTANT DRAWINGS, THIS IS IN ADDITION TO THOSE CURRENT MEASURES. THE COST FOR THIS ADMIXTURE SHALL BE ACCOUNTED FOR WITHIN THE BASE BID AND SHALL INCLUDE, BUT IS NOT LIMITED TO ALL AREAS ARCHITECTURALLY LABELED AS FOLLOWS: ORCHESTRA PIT, ALL ELEVATOR PITS, AND THE BELOW GRADE FLY-LOFT RIGGING PIT. PLEASE NOTE: XYPEX C-500 HAS BEEN CHOSEN AS A NEUTRAL MIX ADDITIVE THAT IS NOT INTENDED TO CHANGE THE CURRENTLY PLANNED CONCRETE SET TIME. IF FOR SOME REASON THE SET TIME IS DESIRED TO BE INCREASED OR DECREASED XYPEX DOES HAVE ALTERNATIVE FORMULATIONS WHICH MAY BE USED; HOWEVER, THE GC MUST GET WRITTEN APPROVAL FROM THE EOR PRIOR TO ANY CHANGE IN THE XYPEX C-500 FORMULATION. THE XYPEX C-500 IS AN ADDITIONAL MOISTURE INTRUSION MITIGATION MEASURE THAT IS REQUIRED IN ADDITION TO THE SPECIFIED WATERSTOPS NOTED IN THE OTHER GENERAL NOTES AND DETAILS RELATED TO CONCRETE COLD-JOISTS AND OTHER CONCRETE TRANSITIONS OF PLANE.

CAST-IN-PLACE CONCRETE:

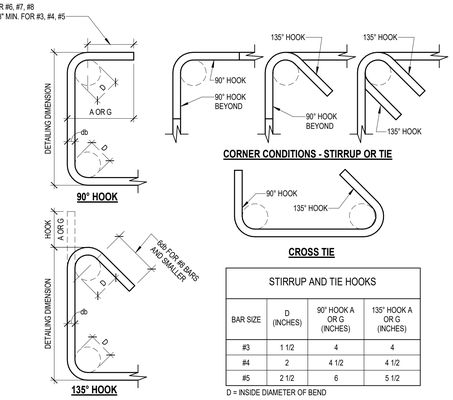
1. CONCRETE SUPPLIER SHALL BE AWARE OF CEMENTS THAT CAN CAUSE LATE ETTRINGITE FORMATION IN THE CEMENT PASTE AND BE PREPARED TO SHOW THAT THE CEMENTS USED WILL NOT CAUSE THIS PROBLEM.
2. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE; ACI 301 AND ACI 318, LATEST EDITIONS.
3. NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE SHOWN ON THE DETAILS. VERTICAL JOINTS SHALL OCCUR AT CENTER SPANS OR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
4. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE; ACI 301 AND ACI 318, LATEST EDITIONS.
5. ALL BASE PLATES AND ANCHOR BOLTS SHALL BE PROTECTED WITH 3" (MIN.) OF CONCRETE. ANCHOR BOLTS SHALL BE FABRICATED FROM FULL BODIED ASTM F1554, GRADE 36 LOW CARBON STEEL RODS HAVING THE SAME DIAMETER AS THE BOLT DIAMETER AND USING CUT THREADS. ROLLED THREADS ARE NOT ACCEPTABLE. BOLTS SHALL BE SET USING RIGID TEMPLATES.
6. AT HORIZONTAL CONCRETE FRAMING, FORMS SHALL NOT BE REMOVED UNTIL THE CONCRETE HAS REACHED 70 PERCENT OF THE 28-DAY COMPRESSIVE STRENGTH INDICATED. FLOOR SLABS AND BEAMS SHALL REMAIN SHORED UNTIL THE UPPER MOST LEVEL OF CONCRETE HAS REACHED 70 PERCENT OF THE 28-DAY COMPRESSIVE STRENGTH. FOR BUILDINGS WITH MORE THAN THREE STORIES IN HEIGHT, SHORING SHALL BE MAINTAINED FOR THREE LEVELS BELOW, UNTIL THE UPPER MOST LEVEL HAS REACHED 70 PERCENT OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
7. ALL CONDUITS AND PIPES EMBEDDED IN CONCRETE SHALL COMPLY WITH ALL PROVISIONS SPECIFIED IN ACI 318,SECTION 26.8, WITH THE FOLLOWING SPECIFIC REQUIREMENTS:
    A. THE MAXIMUM OUTSIDE DIAMETER OF THE CONDUITS AND PIPES SHALL BE 1 1/2". NONE PERMITTED IN SLABS THINNER THAN 4 1/2".
    B. THE MINIMUM CLEAR DISTANCE BETWEEN CONDUITS AND PIPES SHALL BE 6".
    C. NONE PERMITTED IN SLABS-ON-GRADE WHICH WILL BE PERMANENTLY EXPOSED OR SCHEDULED TO RECEIVE THIN SET TILE. PLACE ALL PIPES AND CONDUITS IN THE FILL BENEATH THE VAPOR BARRIER. RE-COMPACT AS SPECIFIED.
    D. IN NON-EXPOSED SLABS-ON-GRADE, LIMIT SIZE TO 1" O.D. IN 5" SLAB SPACE 12" APART AND TIE TO UNDERSIDE OF REINFORCING MAT. WHERE LINES CONVERGE AT SOURCE, DOUBLE UP THE SLAB REINFORCING IN THE CONVERGENCE ZONE AND 3'-0" BEYOND. PLACE ALL LARGER LINES IN THE FILL BENEATH THE VAPOR BARRIER.
    E. NONE PERMITTED IN COLUMNS WITHOUT PRIOR APPROVAL.
    F. DO NOT DISPLACE REINFORCING STEEL FROM ITS PROPER POSITION.
8. PROVIDE SHEAR KEYS IN ALL CONSTRUCTION JOINTS IN BEAMS AND WALLS, IN ACCORDANCE WITH THE TYPICAL CONCRETE DETAILS.
9. PLACE WATERSTOPS IN ALL EXTERIOR CONSTRUCTION JOINTS BELOW GRADE AND ELSEWHERE AS CALLED FOR.
10. FLOORS ARE NOT DESIGNED TO SUPPORT FORMWORK AND WET CONCRETE WEIGHT OF NEXT LEVEL. CONTRACTOR SHALL DESIGN AND PROVIDE RE-SHORING TO PREVENT OVERSTRESSING THE STRUCTURE.
11. SET FORMS TO FOLLOW SLOPES AND GRADES DEFINED ON PLAN, KEEPING MEMBER DEPTHS CONSTANT AT DEPTHS DETAILED OR SCHEDULED, UNLESS NOTED OTHERWISE. SLOPE UNIFORMLY BETWEEN ELEVATIONS GIVEN. BUILD IN CAMBER WHERE SPECIFIED.
12. CONSTRUCTION JOINTS PERMITTED ONLY WHERE INDICATED ON DRAWINGS. WHERE NOT SPECIFICALLY INDICATED ON DRAWINGS, LOCATE THE JOINTS AS FOLLOWS:
    A. LOCATE JOINTS NOT INDICATED TO LEAST IMPAIR STRENGTH AND APPEARANCE OF STRUCTURE. LOCATE VERTICAL JOINTS IN MIDDLE THIRD OF SPANS OF NON-POST-TENSIONED SLABS, BEAMS OR GIRDERS, UNLESS A BEAM INTERSECTS A GIRDER AT MIDDLE LOCATION, IN WHICH CASE OFFSET JOINTS IN GIRDERS TWICE WIDTH OF BEAM. LOCATE VERTICAL JOINTS WITHIN THE END THIRD OF SPANS OF POST TENSIONED CONTINUOUS SLABS, BEAMS OR GIRDERS WHERE TENDON PROFILE IS AT OR NEAR THE CENTROID OF THE CONCRETE CROSS SECTION.
    B. LOCATE HORIZONTAL JOINTS IN WALLS AND COLUMNS AT UNDERSIDE OF SUPPORTED ELEMENTS AT THE TOP OF THE WALL OR COLUMN AND AT THE TOP OF FOOTINGS OR FLOOR SLABS AT THE BOTTOM OF THE WALL OR COLUMN. ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SO THAT AGGREGATE SHALL BE EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES OR DAMAGED CONCRETE.
    C. REFER TO PLANS FOR JOINTS IN GRADE SUPPORTED SLABS.
    D. JOINTS ARE NOT ALLOWED BETWEEN PILASTERS AND BEAM/WALL THAT ARE MONOLITHIC.
    E. SUBMIT CONSTRUCTION JOINT LAYOUT PLANS FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
13. *****GC NOTE*****
    A. AT ALL CONCRETE COLD JOINTS OR TRANSITIONS BETWEEN PLANES: VERTICAL TO VERTICAL POURS, HORIZONTAL TO HORIZONTAL POURS, HORIZONTAL TO VERTICAL POURS, AND VERTICAL TO HORIZONTAL POURS, THE GC SHALL PROVIDE A CONTINUOUS WATER STOP WITHIN EACH JOINT. WATERSTOP MANUFACTURERS AND TYPES SHALL BE AS APPROVED IN THE SPECS AND THE GENERAL NOTES. ALL WATER STOPS MUST BE APPROPRIATE FOR THE CONDITION BASED ON THE MANUFACTURER'S DATA. THE GC SHALL BE IN STRICT COMPLIANCE WITH ALL MANUFACTURERS' USE, HANDLING, AND INSTALLATION INSTRUCTIONS. AT A MINIMUM, THE GC SHALL ASSUME A DUMBBELL-TYPE WATER STOP WITH WINGS THAT EXTEND TO EACH SIDE OF THE CONCRETE FOR EACH JOINT UNLESS OTHERWISE NOTED WITHIN THE CD'S TO BE AN ALTERNATE ACCEPTABLE WATER STOP TYPE.
    B. ADDITIONALLY, CONCRETE USED AT A SLAB DEPRESSION WITH A DEPTH GREATER THAN 6 INCHES, THE CONCRETE ADDITIVE XYPEX C-500 SHALL BE INCLUDED IN THE CONCRETE MIX. REFER TO CONCRETE MIX SCHEDULE FOR CONCRETE MIXES WHICH MAY REQUIRE XYPEX C-500 AND CONCRETE MIX NOTE 10 FOR ADDITIONAL INFORMATION.

CONCRETE REINFORCEMENT:

1. REINFORCING STEEL SHALL CONFORM TO ASTM615. BARS SHALL BE NEW OR RECYCLED DOMESTIC BILLET STEEL OF A DOMESTIC MANUFACTURE. REINFORCING BARS SIZE #3 THROUGH #10 SHALL BE GRADE 60. REINFORCING BARS SIZE #11 THROUGH #18 SHALL BE GRADE 75.
2. DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496, GRADE 70.
3. ALL WELDED WIRE FABRIC SHALL BE SMOOTH WIRE FABRIC CONFORMING TO ASTM A185, AND SHALL BE FURNISHED IN FLAT SHEETS.
4. CONCRETE COVERAGE AROUND REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 SECTION 20.6, LATEST EDITION, AND MEET REQUIREMENTS BELOW. THE REINFORCING STEEL DETAILER SHALL ADJUST REINFORCING STEEL CAGE SIZES AT INTERSECTING REINFORCING MEMBERS AS REQUIRED TO ALLOW CLEARANCE FOR INTERSECTING BARS. SLAB ON GRADE REINFORCEMENT SHALL BE \ SUPPORTED AT EVERY THIRD BAR, NOT TO EXCEED 45-INCH INTERVALS.

FOOTINGS/PIERS	3 IN
GRADE BEAMS	3 IN BOT; 2 IN SIDES (3" IF CAST AGAINST SOIL), 2 IN TOP
SLAB ON GRADE	2 IN TOP
SLAB BOTTOMS OVER VOID FORM	
COLUMNS NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND (TYP INTERIOR CONDITIONS)	1 5/8"

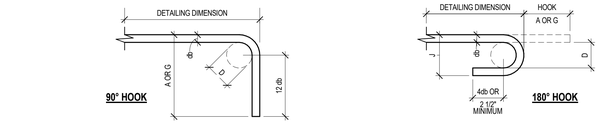
5. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI 315, LATEST EDITION. ALL HOOKED BARS SHOWN SHALL HAVE STANDARD HOOKS, U.N.O.
6. REINFORCING SHALL NOT BE WELDED WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER.
7. BOTTOM REINFORCING BARS SHALL BE SPLICED AT SUPPORTS AND CONTINUOUS TOP BARS SHALL BE SPLICED AT MID-SPAN PER S/S-302.1
8. WHERE BAR TYPES FROM THE BAR BENDING DIAGRAM ARE SPECIFIED, PROVIDE BARS ACCORDINGLY. OTHERWISE, DETAIL BARS IN BEAMS, COLUMNS, SLABS, AND WALLS PER S/S-302.1
9. PLACE BARS NOTED AS "2ND LAYER" BELOW THE PRIMARY TOP BARS (OR ABOVE THE PRIMARY BOTTOM BARS) AND PROVIDE #11 SPACER BARS PLACED AT INTERVALS OF 4'-0" BETWEEN THE TWO LAYERS OF BARS.
10. PROVIDE CORNER BARS FOR EACH HORIZONTAL BAR AT THE INSIDE AND OUTSIDE FACES OF INTERSECTING BEAMS OR WALLS. REFER TO TYPICAL CORNER BAR DETAIL ON S/S-302.1



STIRRUP AND TIE HOOKS			
BAR SIZE	D (INCHES)	90° HOOK A OR G (INCHES)	135° HOOK A OR G (INCHES)
#3	1 1/2	4	4
#4	2	4 1/2	4 1/2
#5	2 1/2	6	5 1/2

D = INSIDE DIAMETER OF BEND

1 TYPICAL STIRRUP AND TIE HOOK TYPES
NO SCALE



END HOOK DIMENSIONS				
BAR SIZE	FINISHED BEND DIAMETER D, (INCHES)	180° HOOKS		90° HOOK
		A OR G, (INCHES)	J, (INCHES)	A OR G, (INCHES)
#3	2 1/4	5	3	6
#4	3	6	4	8
#5	3 3/4	7	5	10
#6	4 1/2	8	6	12
#7	5 1/4	10	7	14
#8	6	11	8	16
#9	9 1/2	15	11 3/4	19
#10	10 3/4	17	13 1/4	22
#11	12	19	14 3/4	24
#14	18 1/4	27	21 3/4	31
#18	24	36	28 1/2	41

D = INSIDE DIAMETER OF BEND

2 TYPICAL END HOOK TYPE
NO SCALE

DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION, NORMALWEIGHT CONCRETE							
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI		f'c=5000 PSI		BAR SIZE
	Ldh	0.7 Ldh	Ldh	0.7 Ldh	Ldh	0.7 Ldh	
#3	9	7	8	6	7	6	#3
#4	11	8	10	7	9	7	#4
#5	14	10	12	9	11	8	#5
#6	17	12	15	11	13	10	#6
#7	20	14	17	12	15	11	#7
#8	22	16	19	14	17	12	#8
#9	25	18	22	16	20	14	#9
#10	28	20	25	18	22	16	#10
#11	31	22	27	19	24	17	#11
#14	38	-	33	-	29	-	#14
#18	50	-	43	-	39	-	#18

NOTES:

1. Ldh = DEVELOPMENT LENGTH OF STANDARD HOOKS IN TENSION (INCHES).
2. Ldh = Lhb UNLESS CONDITIONS OF NOTE 3 ARE SATISFIED.
3. Ldh = 0.7Lhb FOR #11 BARS AND SMALLER WHEN SIDE COVER (NORMAL TO PLANE OF HOOK) IS NOT LESS THAN 2 1/2 INCHES AND FOR 90° HOOKS COVER ON BAR EXTENSION BEYOND HOOK IS NOT LESS THAN 2 INCHES.
4. HOOKS ARE NOT CONSIDERED EFFECTIVE FOR DEVELOPING BARS IN COMPRESSION.
5. Ldh SHALL BE MULTIPLIED BY 1.2 FOR EPOXY-COATED HOOKED REINFORCING BARS.

3 TYPICAL DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION
NO SCALE

TENSION DEVELOPMENT AND LAP SPLICE LENGTHS (CLASS B) GRADE 60 REINFORCEMENT NORMAL WEIGHT CONCRETE						
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI		f'c=5000 PSI	
	TYP. BARS	OTHER BARS	TYP. BARS	OTHER BARS	TYP. BARS	OTHER BARS
#3	28"	22"	24"	19"	22"	17"
#4	37"	29"	32"	25"	29"	22"
#5	47"	36"	40"	31"	36"	28"
#6	56"	43"	48"	37"	43"	33"
#7	81"	63"	70"	54"	63"	49"
#8	93"	72"	80"	62"	72"	55"
#9	105"	81"	91"	70"	81"	63"
#10	118"	91"	102"	79"	91"	70"
#11	131"	101"	113"	87"	101"	78"

NOTES:

1. THE CLASS B TENSION LAP SPLICE SCHEDULE SHOWN IS FOR NORMAL WEIGHT CONCRETE AND GRADE 60 NON-EPOXY-COATED REINFORCING.
2. TYPICAL BARS ARE FOR BEAM TOP AND INTERMEDIATE BARS, WALL TOP AND HORIZONTAL BARS, AND SLAB/FOOTING TOP BARS FOR SLAB/FOOTING THICKNESS GREATER THAN 13". OTHER BARS ARE FOR ANY BAR THAT DOES NOT HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR. ALL TYPICAL BARS SHALL HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR.
3. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED SPLICE LENGTHS OF TYPICAL BARS BY 1.3 AND THE TABULATED SPLICE LENGTHS OF OTHER BARS BY 1.5.
4. FOR LIGHTWEIGHT CONCRETE, MULTIPLY THE TABULATED SPLICE LENGTHS BY 1.33.
5. FOR GRADE 75 BARS, MULTIPLY THE TABULATED SPLICE LENGTHS BY 1.25.
6. FOR #7 TO #11 SLAB OR WALL REINFORCING WITH CLEAR COVER LESS THAN 1 BAR DIAMETER, MULTIPLY THE TABULATED SPLICE LENGTHS BY 1.5.
7. SPLICE LENGTH FOR BARS OF DIFFERENT SIZE SHALL BE THE GREATER OF SPLICE LENGTH/1.3 OF THE LARGER BAR AND SPLICE LENGTH OF THE SMALLER BAR.
8. FOR CONCRETE STRENGTH IN BETWEEN THOSE SHOWN IN THE SCHEDULE, USE SPLICE LENGTHS OF THE LOWER CONCRETE STRENGTH.
9. THE SCHEDULED LAP SPLICE LENGTH WITH THE APPLICABLE MODIFICATION FACTORS SHALL NOT BE LESS THAN 12".

4 TYPICAL DEVELOPMENT AND LAP SPLICE LENGTHS
NO SCALE

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CONSULTANT NAME
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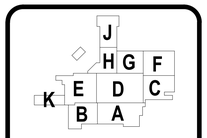
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

GENERAL CONCRETE AND STEEL REINF NOTES AND TYPICAL DETAILS

S-300

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0" 1"

GENERAL SLAB-ON-GRADE NOTES AND TYPICAL DETAILS

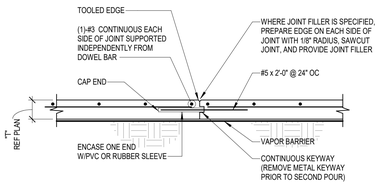
S-301.1

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

SLAB-ON-GRADE:

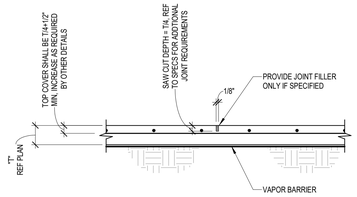
1. INSTALL VAPOR BARRIER IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY BELOW SLAB. PROPERLY TAPE ALL SEAMS PER MANUFACTURER'S RECOMMENDATIONS AND REMOVE ANY REMOVE STANDING WATER ON THE SURFACE OF VAPOR BARRIER PRIOR TO CONCRETE PLACEMENT.
2. PROVIDE (2) #5 x 5'-0" LONG BAR IN SLAB AT RE-ENTRANT CORNERS, TYPICAL. INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.
3. PROVIDE CONTROL JOINTS ALONG COLUMN LINES AND AT 15'-0" ON CENTER, EACH WAY, MAXIMUM, UNLESS NOTED OTHERWISE. ALSO, PROVIDE ADDITIONAL CONTROL JOINTS AT RE-ENTRANT CORNERS. SEE TYPICAL DETAILS.
4. JOINT FILLER SHALL BE USED ON ALL JOINTS THAT DO NOT GET COVERED BY AN ARCHITECTURAL FLOOR COVERING. ACCEPTABLE PRODUCTS INCLUDE EDGE PRO 90. STRICTLY FOLLOW MANUFACTURER-WRITTEN RECOMMENDATIONS FOR INSTALLATION. DELAY JOINT FILLING AS LONG AS PRACTICAL TO ALLOW FOR MAXIMUM CONCRETE SHRINKAGE.
5. DO NOT PLACE HEAVY EQUIPMENT OR CONSTRUCTION STORAGE LOADS ON THE SLAB UNLESS CALCULATIONS PREPARED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED HAVE BEEN SUBMITTED, VERIFYING THE ADEQUACY OF THE SLAB.
6. TESTING LAB WILL TEST ALL PLACEMENTS IN ACCORDANCE WITH ASTM E 1155 TO CONFIRM F-NUMBERS AND ADEQUACY OF FINISHING PROCEDURES.
7. THE PERFORMANCE OF THE SLAB IS HIGHLY DEPENDENT ON HOW WELL THE CONTRACTOR FOLLOWS THE BUILDING PAD PREPARATION RECOMMENDATIONS AS SPECIFIED IN THE GEOTECHNICAL REPORT AND EARTHWORK SECTION OF THE GENERAL NOTES. THE CONTRACTOR AND OWNER SHOULD CONSULT WITH THE GEOTECHNICAL ENGINEER IF THERE ARE ANY QUESTIONS CONCERNING DESIGN, CONSTRUCTION METHODS, PERFORMANCE AND RISKS INVOLVED IN THE CONSTRUCTION OF A GRADE SUPPORTED SLAB.
8. SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.



NOTES:

1. AT CONTRACTOR'S OPTION, CONTRACTION JOINT MAY BE USED IN PLACE OF CONSTRUCTION JOINT. LOCATIONS SHALL BE PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ARCHITECT.
2. CONTRACTION JOINT MAYBE BE SAW CUT TO 1/4 OF THE SLAB DEPTH WITHIN 6 HOURS AFTER SLAB PLACEMENT.

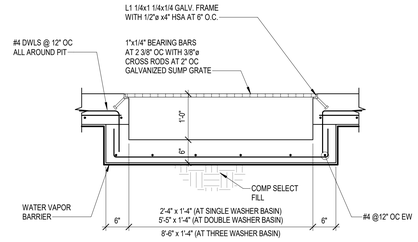
1 SLAB CONSTRUCTION JOINT
NO SCALE



NOTES:

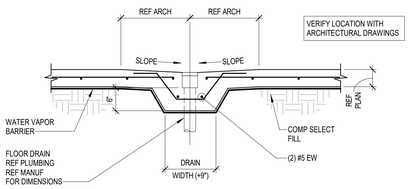
1. PROVIDE JOINT AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMN LINES AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS (NOT TO EXCEED 16 FEET), UNO.
2. GC SHALL SUBMIT JOINT LAYOUT TO THE ARCHITECT FOR APPROVAL.

2 CONTRACTION (CONTROL) JOINT
NO SCALE



VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS

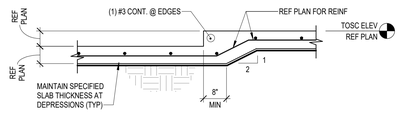
3 DRAIN TROUGH DETAIL
NO SCALE



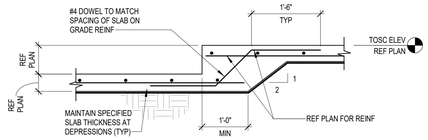
4 FLOOR DRAIN DETAIL
NO SCALE

NOTE:

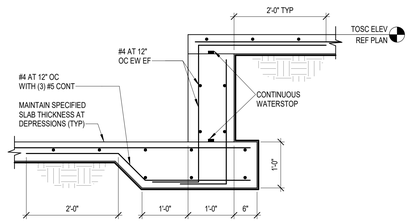
1. GC SHALL COORDINATE DEPTH AND LOCATION OF ALL FLOOR DEPRESSIONS WITH THE ARCHITECTURAL DRAWINGS.



SLAB RECESS LESS THAN 3" DEEP



SLAB RECESS 3" TO 10" DEEP

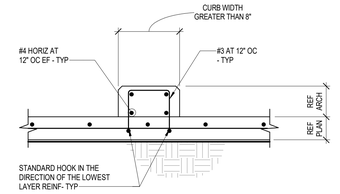


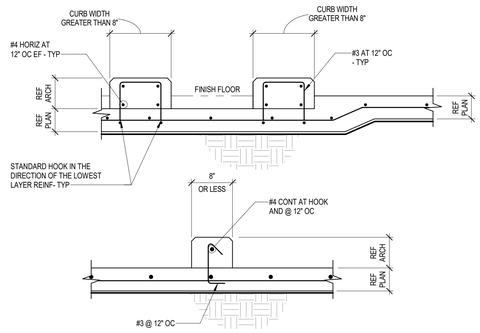
SLAB RECESS 10" TO 36" DEEP

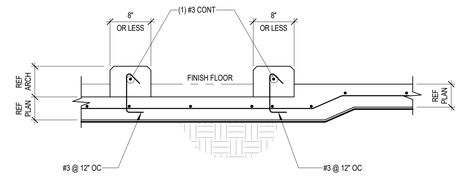
6 TYPICAL SLAB DEPRESSION DETAILS
NO SCALE

NOTE:

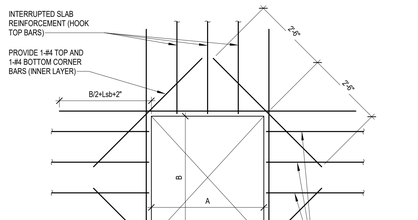
1. GC SHALL COORDINATE CURB SIZES AND LOCATIONS WITH ARCH DRAWINGS.







7 TYPICAL CURB DETAILS
NO SCALE



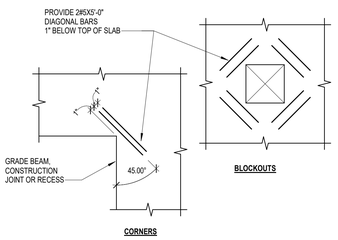
NOTES:

1. Lsb EQUALS BAR "CLASS B" TENSION LAP SPLICE LENGTH, UNLESS NOTED OTHERWISE.
2. SLAB OPENINGS ARE ONLY PERMITTED WHERE INDICATED ON THE STRUCTURAL PLANS OR AS APPROVED BY THE STRUCTURAL ENGINEER.

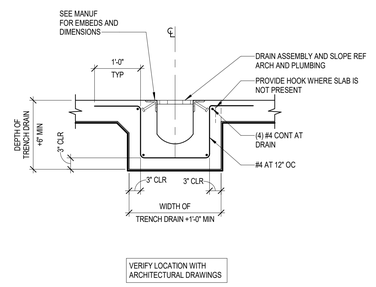
8 TYPICAL SLAB OPENING REINFORCEMENT
NO SCALE

NOTE:

1. FABRICATOR TO LOCATE THESE BARS ON THE SHOP DRAWINGS.

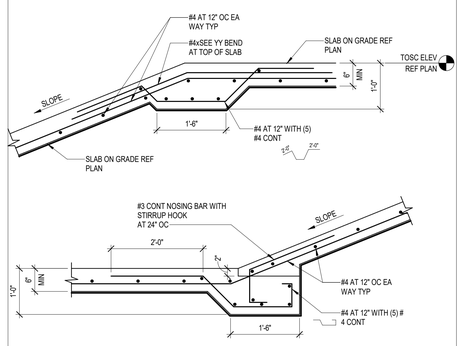


9 TYPICAL RE-ENTRANT CORNER BARS DETAIL
NO SCALE

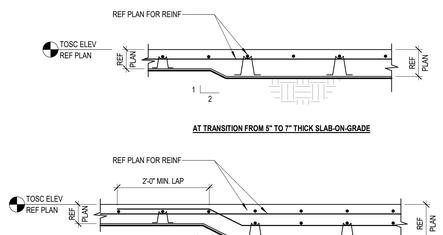


VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS

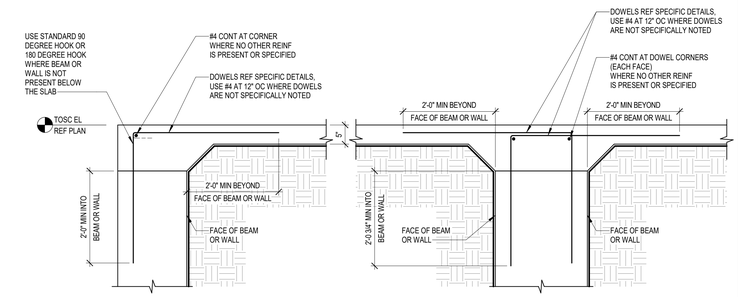
10 TYPICAL TRENCH DRAIN AT SLAB-ON-GRADE
NO SCALE



11 SLAB-ON-GRADE SLOPE REINF
NO SCALE



12 TYPICAL CHANGE IN SLAB THICKNESS
NO SCALE



13 TYPICAL SLAB DOWEL
NO SCALE

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ARCHITECT	PBK Architects, Inc.
	PBK.com
	HOUSTON 11 Greenway Plaza, 22nd Floor Houston, TX 77046 713-965-0608 P 713-961-4571 F TX Firm: BR 1608
CIVIL	BROOKS & SPARKS T 281-578-5998
LANDSCAPE	EDELAND GROUP T 713-862-1666
STRUCTURAL	KUBALA ENGINEERS T 713-840-7343
MEP/T	LEAP T 713-340-3320
ACOUSTIC	ARPEGGIO T 512-474-3464
FOOD SERVICE	FSSI T 281-356-2223
POOL/AQUATICS CONSULTANT NAME	T 000-000-0000

Arnold Middle School

11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J H G F K E D C B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

GENERAL SLAB-ON-GRADE NOTES AND TYPICAL DETAILS

S-301.1

ISSUE FOR PROPOSAL

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/ST22_220023_CFISD_Arnold MS.rvt

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SLAB-ON-GRADE TYPICAL DETAILS (CONT.)

S-301.2

FOR BLUEBEAM LABELING/OCR:

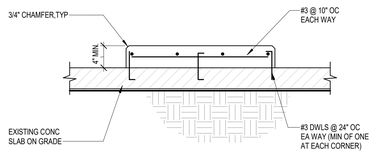
0"

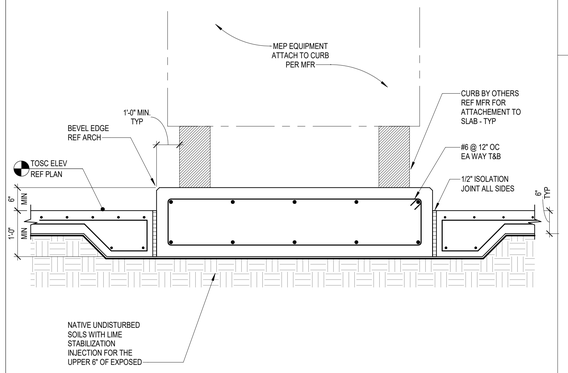
1"

ISSUE FOR PROPOSAL

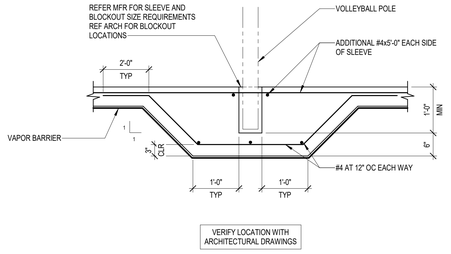
NOTES:

1. GENERAL CONTRACTOR TO COORDINATE WITH THE MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE LOCATIONS OF HOUSEKEEPING PADS, AND TO PROVIDE WHERE REQUIRED, IF NONE ARE SHOWN ON THE STRUCTURAL DRAWINGS.
2. COORDINATE ALL PAD DIMENSIONS, AND VERIFY ADEQUACY WITH THE MECHANICAL ENGINEER AND THE EQUIPMENT REQUIREMENTS.
3. EQUIPMENT SKIDS/ATTACHMENT TO FOUNDATION SHALL BE DEFERRED SUBMITTAL SIGNED BY REGISTERED P.E. RESPONSIBLE FOR THEIR DESIGN.





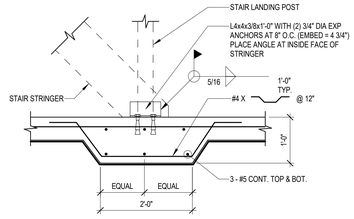
1 TYPICAL CONCRETE HOUSEKEEPING PAD DETAIL
NO SCALE



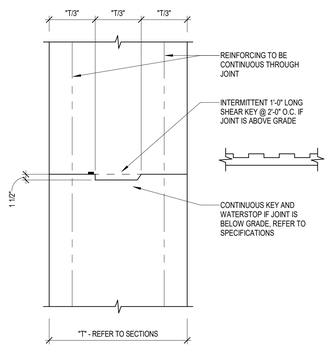
2 TYPICAL VOLLEYBALL POLE INSERT
NO SCALE

NOTE:

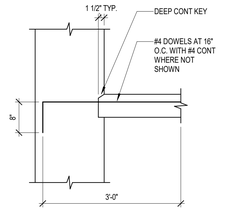
1. CONTRACTOR TO COORDINATE LOCATIONS OF SIFFENER BEAMS TO ALIGN WITH LOCATIONS OF STAIR STRINGERS & LANDING POSTS. COORDINATE WITH STAIR MANUFACTURER AS REQUIRED.



3 TYPICAL SLAB STIFFENER UNDER STAIR STRINGER
NO SCALE



4 TYP HORIZONTAL CONSTRUCTION JOINT IN BEAMS AND WALLS OR VERTICAL CONSTRUCTION JOINT IN WALLS
NO SCALE



5 TYPICAL WALL TO SLAB CONSTRUCTION JOINT
NO SCALE

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BUILDING NUMBER

SLAB-ON-GRADE TYPICAL DETAILS (CONT.)

S-301.2

GENERAL GRADE BEAM NOTES AND TYPICAL DETAILS

S-302.1

FOR BLUEBEAM LABELING/OCR:

0"

1"

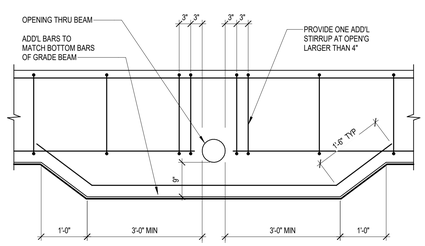
GRADE BEAM NOTES:

1. GRADE BEAM DIMENSIONS AND/OR LOCATIONS SHALL NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER OF RECORD. SIDES OF GRADE BEAMS SHALL BE FORMED. EARTH FORMING OF GRADE BEAMS IS NOT ALLOWED UNLESS GRADE BEAMS MAY BE EARTH FORMED SO LONG AS THE SIDES ARE PLUMB AND SOUND AND ANY PORTION OF THE BEAMS/SLAB THAT EXTENDS ABOVE GRADE/ EXPOSED IS BOARD FORMED. THE WALLS MUST NOT SLOUGH OFF MORE THAN 3/4" OUT OF PLANE OF THE PLUMB LINE. WHERE THIS OCCURS A BOARD FORM MAY BE LAID IN THE EARTH TO SMOOTH THE SIDE LOCALLY AT THE IMPERFECTION TO MAINTAIN WALL FLATNESS TOLLERANCE.
2. GRADE BEAMS SHALL BE POURED MONOLITHICALLY AROUND CORNERS AND AT INTERSECTIONS. SEE TYPICAL GRADE BEAM CONSTRUCTION JOINT DETAIL FOR ACCEPTABLE CONSTRUCTION JOINT LOCATIONS.
3. GENERAL CONTRACTOR SHALL COORDINATE LOCATION, SIZE, AND ELEVATION AND INCLUDE IN HIS CONTRACT PRICE ALL REQUIRED HORIZONTAL PENETRATIONS THROUGH CONCRETE BEAMS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. WHERE BEAM PENETRATIONS ARE REQUIRED BUT ARE NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED PENETRATIONS FOR REVIEW AND APPROVAL.

GRADE BEAM SCHEDULE

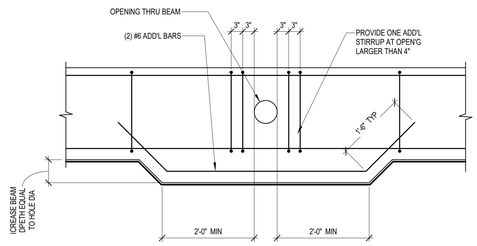
MARK	SIZE		REINFORCING			TIES		REMARKS
	WIDTH	DEPTH	TOP	BOTTOM	MIDDLE	SIZE	SPACING	
GB1	1'-6"	2'-6"	(3) - #9	(3) - #9	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB2	2'-0"	2'-6"	(4) - #9	(4) - #9	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB3	2'-8"	2'-6"	(5) - #9	(5) - #9	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB4	2'-10"	2'-6"	(6) - #9	(6) - #9	-	#4 D1A	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB5	3'-0"	2'-6"	(7) - #9	(7) - #9	-	#4 D1A	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB6	1'-2"	2'-6"	(3) - #7	(3) - #7	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	TYPICAL AT DOOR STOOPS
GB7	2'-8"	3'-0"	(5) #10	(5) #10	(2) #6 EF	#4 D1A	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB8	3'-0"	3'-0"	(6) #10	(6) #10	(2) #6 EF	#4 D1A	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB10	1'-6"	2'-0"	(3) - #9	(3) - #9	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB16	1'-2"	2'-0"	(3) - #7	(3) - #7	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	TYPICAL AT DOOR STOOPS

*** REF DETAIL 1/S-302.2 FOR TIE SPACING AT GRADE BEAM TO GRADE BEAM CONNECTIONS WHERE PIER / FOOTING IS NOT PRESENT AT INTERSECTION.
*** REF DETAIL 2/S-302.2 FOR TIE SPACING BELOW COLUMN WHERE PIER / FOOTING IS NOT PRESENT BELOW COLUMN.



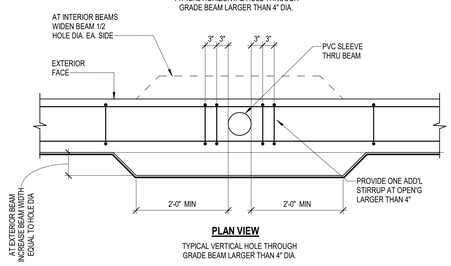
SECTION VIEW

TO BE USED WHERE OPENING CONFLICTS WITH BOTTOM BAR REINFORCEMENT



SECTION VIEW

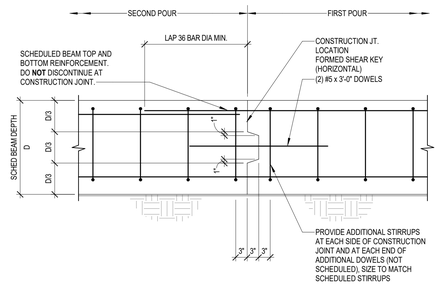
TYPICAL HORIZONTAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.



PLAN VIEW

TYPICAL VERTICAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.

4 TYPICAL GRADE BEAM PENETRATION DETAILS
NO SCALE

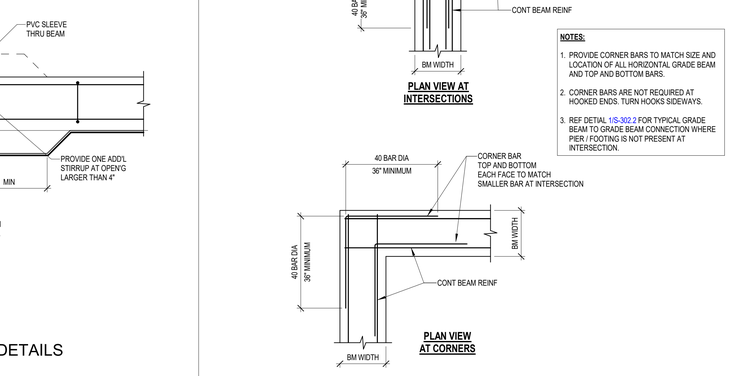


ELEVATION VIEW

NOTES:

1. LOCATE JOINTS IN MIDDLE THIRD OF BEAM SPAN BETWEEN SUPPORTS.
2. ACCEPTABLE JOINT LOCATIONS ARE AS FOLLOWS:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS, PLACE JOINT WITHIN MIDDLE THIRD OF SPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS, CHECK WITH STRUCTURAL ENGINEER FOR JOINT LOCATIONS AND DOWEL REQUIREMENTS.
3. FOR JOINT LOCATIONS OTHER THAN WITHIN MIDDLE THIRD OF SPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.
4. JOINTS MAY NOT OCCUR IN THE FIRST SPAN OF A BEAM LINE OR IN ANY SPAN WHICH IS LESS THAN 8 FEET.
5. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO POUR.

8 TYPICAL GRADE BEAM CONSTRUCTION JOINT
NO SCALE



1 GRADE BEAM SCHEDULE
NO SCALE

INTERMEDIATE BAR SCHEDULE

BEAM DEPTH	NUMBER OF BARS EA FACE	SIZE OF BAR
> 36" - 48"	5	#3
49" - 54"	5	#4
55" - 60"	5	#5
61" - 66"	6	#5
67" - 78"	7	#5
79" AND ABOVE	AT 9" OC	#5

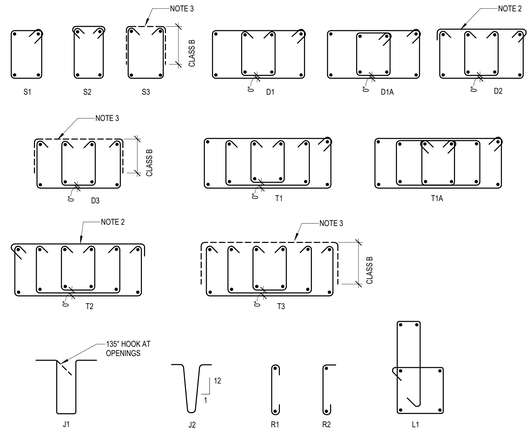
PLAN VIEW AT INTERSECTIONS

NOTES:

1. PROVIDE CORNER BARS TO MATCH SIZE AND LOCATION OF ALL HORIZONTAL GRADE BEAM AND TOP AND BOTTOM BARS.
2. CORNER BARS ARE NOT REQUIRED AT HOOKED ENDS. TURN HOOKS SIDEWAYS.
3. REF DETAIL 1/S-302.2 FOR TYPICAL GRADE BEAM TO GRADE BEAM CONNECTION WHERE PIER / FOOTING IS NOT PRESENT AT INTERSECTION.

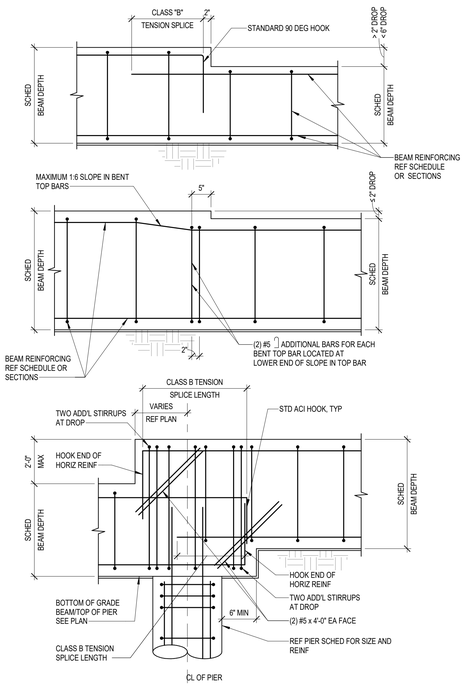
PLAN VIEW AT CORNERS

5 TYPICAL CORNER BAR DETAILS
NO SCALE



NOTES:
1. ALL HOOKS SHALL BE FABRICATED AS REQUIRED BY ACI. REFER TO "TYPICAL STIRRUP AND TIE HOOK TYPES."
2. THE TOP CAP FOR CLOSED STIRRUPS S15, S19, S24, AND S27 SHALL BE PLACED SUCH THAT THE 135° HOOK END IS NOT ON THE SIDE CONFINED BY THE SLAB.
3. PROVIDE TOP CAP FOR OPEN STIRRUPS S3, S21, S22, AND S29 TO MATCH SCHEDULED STIRRUP SIZE AT 48".

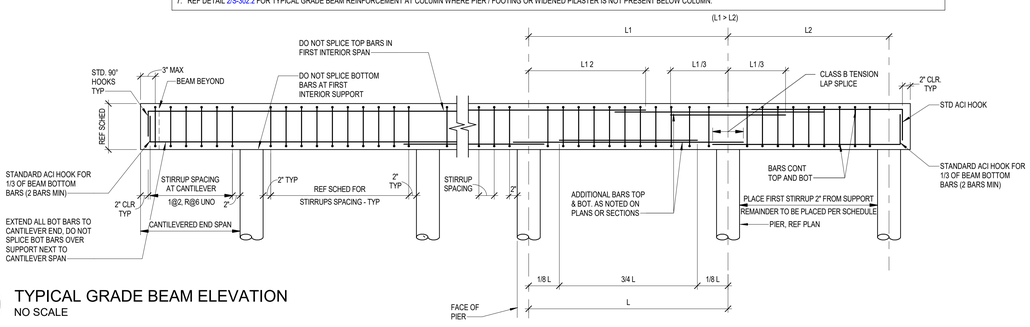
2 TYPICAL GRADE BEAM STIRRUP TYPES
3/4" = 1'-0"



6 TYPICAL GRADE BEAM STEPDOWN DETAIL
NO SCALE

NOTES:

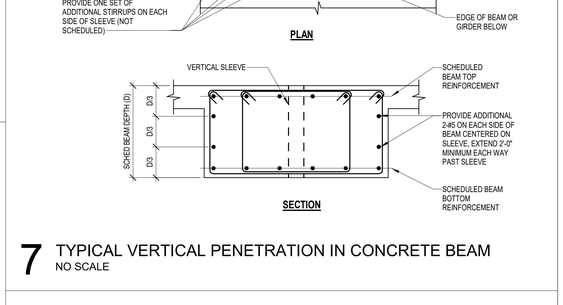
1. TOP CONT BARS MAY BE SPLICED AT MID-SPAN OF BEAM ONLY. EXCEPT AT CANTILEVER SPANS, SPANS ADJACENT TO CANTILEVER SPANS AND SPANS WITH LENGTH NOT GREATER THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
2. ALL HOOKS SHOWN ARE STANDARD HOOKS (90° OR 180°).
3. SPLICES IN SCHEDULED BARS LESS THAN 60'-0" LENGTH ARE ONLY PERMITTED AT THE SPECIFIED LOCATIONS SHOWN. SPLICES IN SCHEDULED BARS MORE THAN 60'-0" LENGTH SHALL BE REFERRED TO ENGINEER FOR APPROVAL.
4. BEAMS WITH DEPTH OF 36" OR LESS, DO NOT NEED INTERMEDIATE BARS UNLESS REQUIRED BY BEAM SCHEDULE. REF 1/S-302.1.
5. REF DETAIL 6/S-302.1 FOR DROP IN TOP OR BOTTOM OF GRADE BEAM.
6. REF DETAIL 1/S-302.2 FOR TYPICAL GRADE BEAM TO GRADE BEAM CONNECTION WHERE PIER / FOOTING IS NOT PRESENT AT INTERSECTION.
7. REF DETAIL 2/S-302.2 FOR TYPICAL GRADE BEAM REINFORCEMENT AT COLUMN WHERE PIER / FOOTING OR WIDENED PILASTER IS NOT PRESENT BELOW COLUMN.



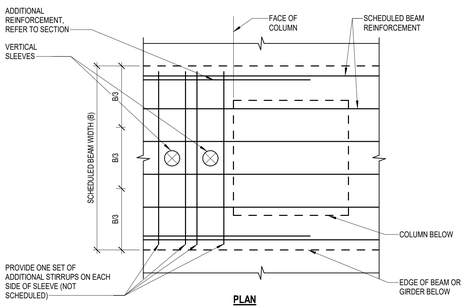
9 TYPICAL GRADE BEAM ELEVATION
NO SCALE

NOTES:

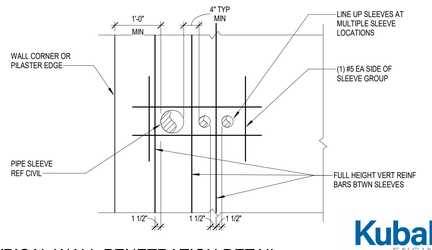
1. GENERAL CONTRACTOR SHALL COORDINATE REQUIRED BEAM SLEEVES WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS. REQUIRED SLEEVES MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES WITH FORMWORK SHOP DRAWING SUBMITTAL.
2. SLEEVES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SCHEDULED BEAM WIDTH.
3. CONTINUOUS BEAM REINFORCEMENT MAY BE SLIGHTLY DISPLACED (3" MAXIMUM) OR ADJACENT BARS BUNDLED (2 BAR BUNDLES MAXIMUM) TO FACILITATE SLEEVE INSTALLATION. DO NOT CUT, OFFSET, OR BEND REINFORCEMENT.
4. SLEEVES OCCURRING ON OPPOSITE SIDES OF A COLUMN MUST BE IN LINE.
5. THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 15% OF THE SCHEDULED WIDTH OF THE BEAM THROUGH WHICH IT MUST PASS.
6. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE ABOVE CONDITIONS.
7. SCHEDULED BEAM STIRRUPS NOT SHOWN FOR CLARITY.



3 TYPICAL HORIZONTAL PENETRATION IN CONCRETE BEAM
NO SCALE



7 TYPICAL VERTICAL PENETRATION IN CONCRETE BEAM
NO SCALE



10 TYPICAL WALL PENETRATION DETAIL
NO SCALE

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S-302.1

ISSUE FOR PROPOSAL

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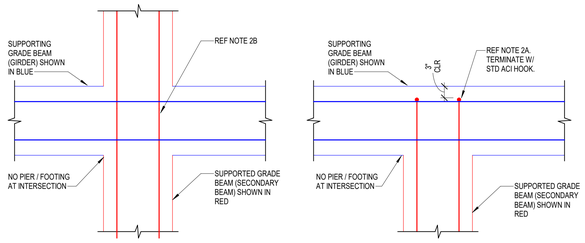
GRADE BEAM TYPICAL DETAILS (CONT.)

S-302.2

FOR BLUEBEAM LABELING/OCR:

0"
1"

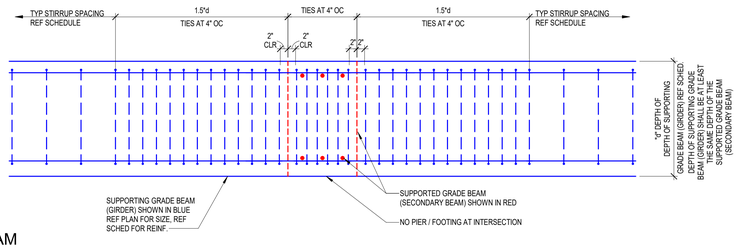


PLAN VIEW AT INTERSECTIONS

PLAN VIEW AT T-INTERSECTIONS

NOTES:

1. CONCRETE FOR SUPPORTING GRADE BEAM (GIRDER) AND SUPPORTED GRADE BEAM (SECONDARY BEAM) SHALL BE PLACED MONOLITHICALLY.
2. SUPPORTED GRADE BEAM (SECONDARY BEAM) LONGITUDINAL REINFORCEMENT INTO SUPPORTING GRADE BEAM (GIRDER):
   A. AT LEAST 1/3 OF BOTTOM BARS, BUT NOT LESS THAN TWO BARS, TO EXTEND INTO SUPPORTING BEAM (GIRDER) AND TERMINATE WITH STD ACI 90 DEGREE HOOK. ALL TOP BARS TO EXTEND AT LEAST Ldh INTO SUPPORTING BEAM (GIRDER) AND TERMINATE WITH STD HOOK IN TENSION. REF 3/S-300.
   B. LONGITUDINAL LAP SPLICES SHALL FOLLOW 9/S-302.1 ASSUMING SUPPORTING GRADE BEAM (GIRDER) IS THE PIER SUPPORT SHOWN IN 9/S-302.1.
3. REF 9/S-302.1 FOR INFORMATION NOT SHOWN OR ANNOTATED HERE.
   REF 5/S-302.1 FOR CORNER BARS. CORNER BARS NOT SHOWN FOR CLARITY.

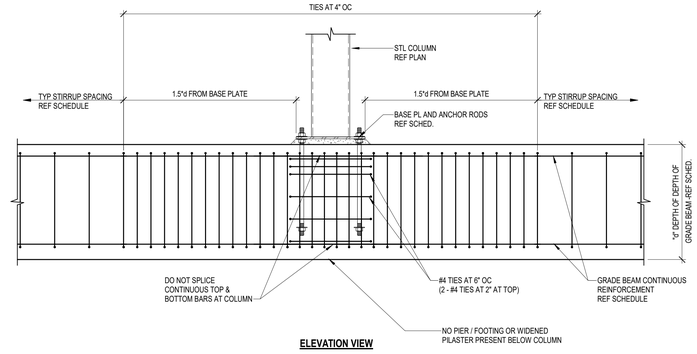


ELEVATION VIEW OF SUPPORTING GRADE BEAM (GIRDER)

1 TYPICAL GRADE BEAM TO GRADE BEAM CONNECTION DETAIL
NO SCALE

NOTES:

1. PROVIDE WIDENED PILASTER AS SHOWN IN 3/S-303 WHERE GRADE BEAM WIDTH DOES NOT MEET PILASTER WIDTH REQUIREMENTS AT GRAVITY COLUMNS, UNO.
2. PROVIDE WIDENED PILASTER AS SHOWN IN 2/S-610 WHERE GRADE BEAM WIDTH DOES NOT MEET PILASTER WIDTH REQUIREMENTS AT BRACE FRAME COLUMNS AND FIXED BASE PLATES PER BASE PLATE SCHEDULE AND 2/S-610, UNO.



ELEVATION VIEW

2 TYPICAL GRADE BEAM REINF AT COLUMN W/O PIER BELOW
NO SCALE

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LEAP
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FOOD SERVICE
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POOL/AQUATICS CONSULTANT NAME
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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J
H G F
K E D C
B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
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02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

GRADE BEAM TYPICAL DETAILS (CONT.)

S-302.2

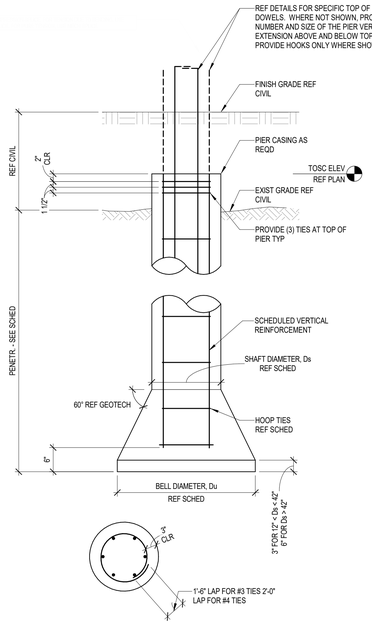
ISSUE FOR PROPOSAL

DRILLED PIERS:

1. UNDERREAMED/BELLED SHAFT DRILLED PIER DESIGN IS BASED UPON THE FOLLOWING CRITERIA. REFER TO TYPICAL PIER DETAIL FOR PIER SCHEDULE AND REINFORCING.

A.	ALLOWABLE END BEARING PRESSURE:	4,000 PSF (SUSTAINED LOADING CONDITION) 6,000 PSF (TOTAL LOADING CONDITION)
B.	UPLIFT PRESSURE (FROM SOIL)	X,XXX PSF
C.	UPLIFT RESISTANCE	FOUNDATION WEIGHT (150 PCF) & SOIL WEIGHT (125 PCF)
D.	ALLOWABLE PASSIVE PRESSURE	X,XXX PSF (NEGLECT UPPER X.X FT)
E.	MINIMUM PENETRATION INTO BEARING STRATUM	X.X FT
F.	BEARING STRATUM	XXXXXXX

2. UNLESS NOTED OTHERWISE BY THE OWNER OR ARCHITECT, THE GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR DURING EARTHWORK OPERATIONS, AND KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT ON SITE DURING OPERATIONS. SERVICES PROVIDED SHALL INCLUDE:
   A. OBSERVING THE BOTTOM OF SHAFT FOR CLEANLINESS.
   B. PROPER BEARING MATERIAL SHALL BE VERIFIED BEFORE CONCRETE POURING OCCURS. THE TOP ELEVATIONS OF PIERS IS SHOWN ON THE DRAWINGS. THE ACTUAL BEARING ELEVATION MAY VARY AS REQUIRED TO PROVIDE PROPER CAPACITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER OF RECORD.
   C. CHECKING SHAFT FOR CONFORMANCE TO REQUIRED TOLERANCES. FOOTINGS SHALL BE WITHIN 3" OF THEIR REQUIRED LOCATIONS AND SHAFTS SHALL NOT BE OUT OF PLUMB BY MORE THAN 2 PERCENT OF THE SHAFT LENGTH. CHECK THAT THE BELL IS CONCENTRIC WITH THE SHAFT.
3. ENSURE THAT ALL SPOILS FROM THE DRILLED PIER EXCAVATIONS ARE REMOVED FROM THE BUILDING PAD AND THAT THE PAD IS MOISTURE CONDITIONED AND RECOMPACTED AS SPECIFIED.
4. ESTABLISH TOP OF FOOTINGS/PIERS AT ELEVATIONS SHOWN ON PLANS. IF FIELD CONDITIONS REQUIRE CHANGES TO REACH THE DESIRED STRATUM, ADJUSTMENTS TO CONTRACT ARE TO BE MADE ON A UNIT PRICE BASIS. CONTRACTOR SHALL PROVIDE UNIT PRICE ADD AND DEDUCT FOR EACH PIER SIZE ON THE PROJECT.
5. PIER CONSTRUCTION AND CONCRETING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND AS PER THE LATEST VERSION OF ACI 336. DRILLED HOLES ARE TO BE EXCAVATED, CLEANED, REINFORCED, AND FILLED WITH CONCRETE DURING THE SAME DAY. NO HOLE IS TO BE LEFT OPEN OVERNIGHT. PUMP ANY ACCUMULATED WATER FROM THE PIER HOLES PRIOR TO CONCRETE PLACEMENT. REFER TO THE GEOTECHNICAL REPORT FOR CASING REQUIREMENTS.
6. REINFORCING CAGE SHALL BE HELD SECURELY AWAY FROM EARTH AT SIDES AND BOTTOM BY SETS OF 3 OR MORE SPACERS AT A MAXIMUM SPACING OF 5 FEET ALONG THE LENGTH OF THE CAGE AND 1 FOOT FROM THE BOTTOM.
7. THE CONTRACTOR SHALL VERIFY DEPTHS OF PIERS BEFORE PIER STEEL IS CUT. PIER STEEL MAY BE DELIVERED TO THE JOBSITE IN STANDARD LENGTHS OF 40 OR 60 FEET AND CUT AS REQUIRED. PROVIDE 64 BAR DIAMETER LAPS IN ALL VERTICAL PIER REINFORCING.
8. WHERE THE CLEAR DISTANCE BETWEEN TWO PIERS IS LESS THAN THE PIER DIAMETER OF THE LARGER PIER, WAIT AT LEAST 48 HOURS AFTER CASTING THE FIRST PIER BEFORE DRILLING THE SECOND PIER.
9. CONTRACTOR SHALL PROVIDE IN HIS BID A UNIT PRICE ADD AND UNIT PRICE DEDUCT FOR EACH PIER SIZE UTILIZED ON THE PROJECT.
10. THE PRICE FOR CASING OF PIERS SHALL BE INCLUDED WITHIN THE BASE BID FOR ALL STRAIGHT SHAFT PIERS ON THE PROJECT. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR 100% CASING OF DRILLED PIERS. CONTRACTOR SHALL ALSO PROVIDE UNIT PRICE FOR EACH SIZE OF CASING UTILIZED ON THE PROJECT. PAYMENT FOR CASING SHALL BE BASED UPON NET LENGTH OF CASING UTILIZED MULTIPLIED BY THE UNIT PRICE.

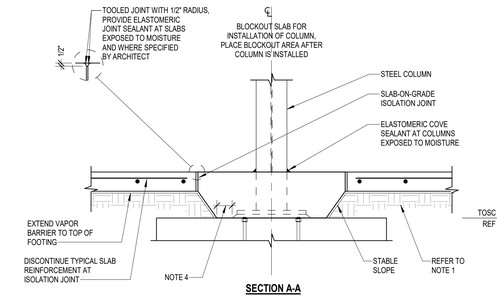


BELLED PIER SCHEDULE					
TYPE	SHAFT DIAMETER	BELL DIAMETER	PENTR	VERT REINF	TIES
24/48	2' - 0"	4' - 0"	10' - 0"	(6) #7	#3 @ 12" OC
30/60	2' - 6"	5' - 0"	10' - 0"	(9) #8	#3 @ 12" OC
36/72	3' - 0"	6' - 0"	10' - 0"	(11) #9	#3 @ 12" OC
39/78	3' - 3"	6' - 6"	10' - 0"	(12) #9	#3 @ 12" OC
45/90	3' - 9"	7' - 6"	10' - 0"	(12) #11	#3 @ 12" OC

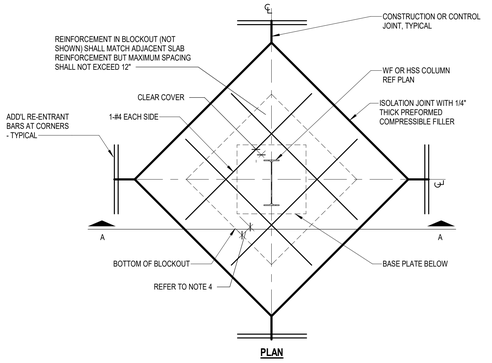
NOTES:

1. DEPTH OF PIER IS INDICATED FOR INFORMATION ONLY. ACTUAL DEPTH MAY VARY. REFER TO THE GEOTECHNICAL REPORT AND THE GRADING PLAN FOR DEPTH OF PIER BELOW FINISH FLOOR, AND ADJUST DEPTHS AS REQD BASED ON APPROPRIATE BEARING STRATUM. REFER TO THE GEOTECHNICAL REPORT FOR AREAS WHERE UNDERREAMS MAY COLLAPSE. APPROPRIATE ALLOWANCE SHALL BE MADE IN CASE SOIL COLLAPSE IS ENCOUNTERED.
2. SPLICE VERTICAL REINFORCING IN PIERS WITH CLASS B TENSION LAP SPLICE. NO MORE THAN 50% OF THE BARS SHALL BE LAP SPLICED AT ONE LOCATION.
3. FOR PIERS LOCATED WITHIN TWO BELL DIAMETERS CLEAR SPACING, THE SECOND PIER SHALL BE DRILLED A MIN OF 48 HOURS AFTER THE FIRST.
4. REFER TO GEOTECHNICAL REPORT FOR PIER CASING REQUIREMENTS. IF CASING IS REQUIRED, CASING SHALL BE SIZED TO MAINTAIN THE PIER SHAFT DIAMETER INDICATED IN THE SCHEDULE.
5. USE TYPE "A" PIER TIES, TYP, UNO. USE TYPE "B" TIES FOR PIERS ABOVE GRADE (INCLUDING PIERS ABOVE GRADE IN CRAWL SPACE), IN SEISMIC DESIGN CATEGORY D, E, & F AND WHERE SPECIFIED IN SCHEDULE.
6. AT LOCATIONS WHERE OVERALL PIER LENGTH IS INSUFFICIENT TO PROVIDE THE SHAFT AND BELL DIAMETERS AT THE SLOPES IDENTIFIED IN THE GEOTECHNICAL REPORT, A STRAIGHT SHAFT PIER OF DIAMETER EQUAL TO THE BELL DIAMETER SHALL BE PROVIDED. CONTACT EOR FOR PIER REINFORCING.
7. PIERS AT BRACED BAYS AND BACK-END OF CANTILEVERED GRADE BEAMS SHALL HAVE CLASS B MECHANICAL COUPLERS FOR ANY SPLICE IN THE VERTICAL (LONGITUDINAL) REINFORCING. (TYP.)

1 TYPICAL PIER REINFORCING DIAGRAM AND SCHEDULE
3/4" = 1'-0"



SECTION A-A

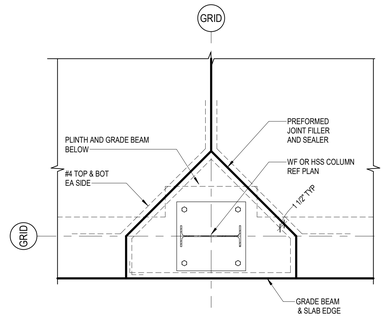


PLAN

NOTES:

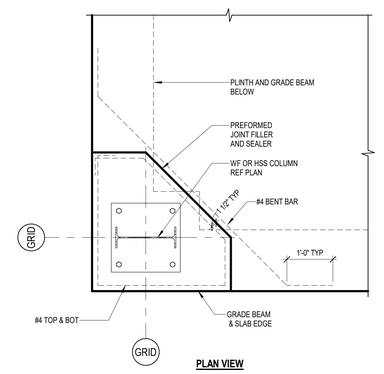
1. REFER TO "TYPICAL SLAB-ON-GRADE SUBGRADE PREPARATION" FOR SUBGRADE PREPARATION REQUIREMENTS INCLUDING LOCATION OF VAPOR BARRIER RELATIVE TO SLAB AND GRANULAR BASE AND WHETHER FINE-GRADE GRANULAR MATERIAL IS REQUIRED.
2. REFER TO "TYPICAL CONSTRUCTION AND CONTROL JOINTS - SLAB-ON-GRADE" FOR CONSTRUCTION AND CONTROL JOINT REQUIREMENTS.
3. CONTRACTOR TO COORDINATE REQUIRED SIZE OF BLOCKOUT FOR STRUCTURAL STEEL COLUMNS WITH STEEL ERECTOR. SUBMIT THE DESIRED BLOCKOUT SIZE TO ARCHITECT FOR APPROVAL.
4. BLOCKOUT SHALL BE SIZED TO PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN AND BASE PLATE.
5. THE BLOCKOUT SHALL BE KEYWAYED WITH RE-ENTRANT BARS.

2 TYPICAL SLAB-ON-GRADE INTERIOR BLOCKOUT DETAIL
NO SCALE



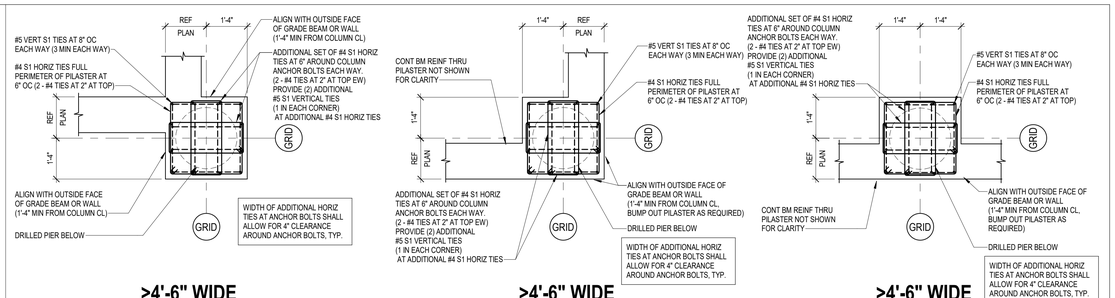
PLAN VIEW

4 TYPICAL SLAB-ON-GRADE PERIMETER BLOCKOUT DETAIL
NO SCALE

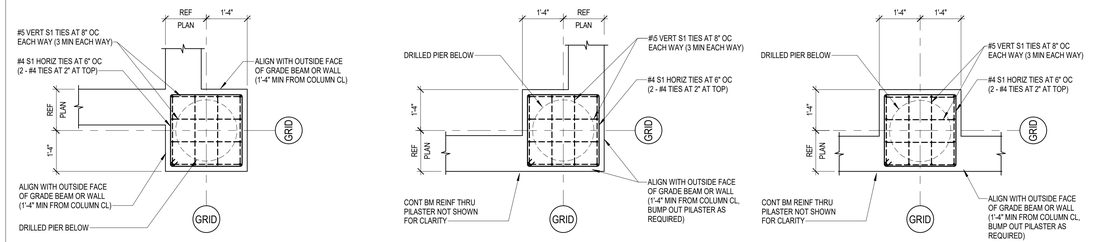


PLAN VIEW

6 TYPICAL SLAB-ON-GRADE CORNER BLOCKOUT DETAIL
NO SCALE



>4'-6" WIDE PLAN VIEW | **>4'-6" WIDE PLAN VIEW** | **>4'-6" WIDE PLAN VIEW**



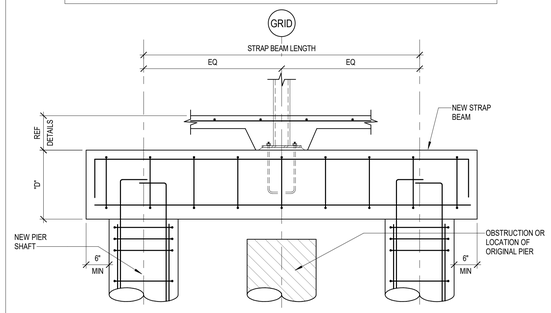
INSIDE CORNER PILASTER | **OUTSIDE CORNER PILASTER** | **INTERIOR PILASTER**

3 TYPICAL PILASTER DETAILS AT PIERS
NO SCALE

STRAP BEAM SCHEDULE					
ORIGINAL BELL DIAM (IN)	DBL PIER BELL SIZE (IN)	DBL PIER SHAFT SIZE (IN)	STRAP BEAM LENGTH	STRAP BEAM (W X D)	STRAP BEAM REINFORCING
24, 36	30	16	5'-0"	14"x24"	(2)-#7 T&B #3 @ 10"
42, 48	36	18	6'-0"	14"x24"	(3)-#6 T&B #3 @ 10"
54, 60	48	24	8'-0"	16"x24"	(2)-#6 TOP (4)-#7 BOTT #3 @ 10"
66, 72	54	28	9'-0"	20"x24"	(3)-#7 TOP (5)-#8 BOTT #3 @ 5"
78, 84	60	30	10'-0"	24"x24"	(3)-#7 TOP (6)-#9 BOTT #4 @ 5"

NOTE:

1. THIS DETAIL SHALL BE USED AT BUILDING SITES WHERE EXISTING UTILITIES, FOUNDATIONS OR OBSTRUCTIONS ARE ENCOUNTERED DURING THE PIER INSTALLATIONS. THE ORIGINAL SINGLE PIER SHALL BE REPLACED WITH TWO NEW PIERS AND A NEW STRAP BEAM SHALL BE ADDED AS SHOWN. ANY UTILITY LINES THAT ARE ENCOUNTERED SHALL BE COVERED WITH CONCRETE.



5 STRAP BEAM DETAIL AT CONSTRUCTION
NO SCALE

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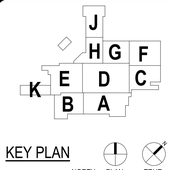

KEY PLAN
NORTH: PLAN TRUE

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Kubala Engineers
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CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

GENERAL FOUNDATION NOTES AND TYPICAL DETAILS

S-303

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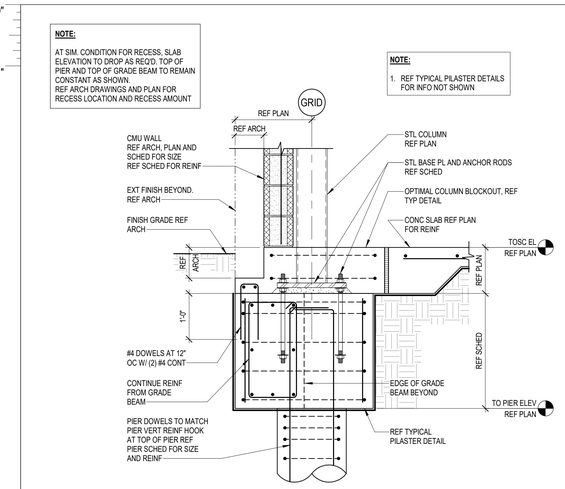
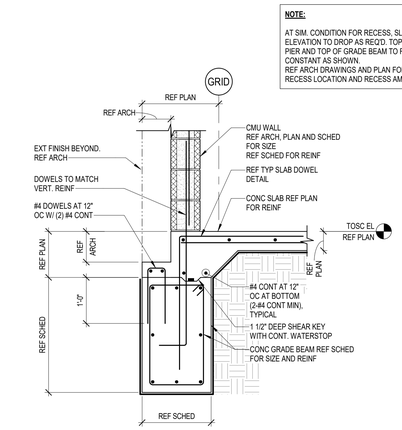
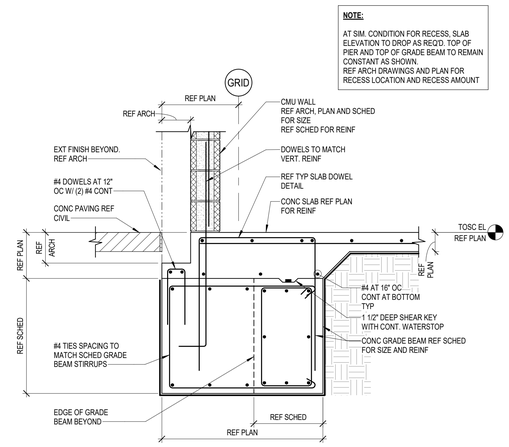


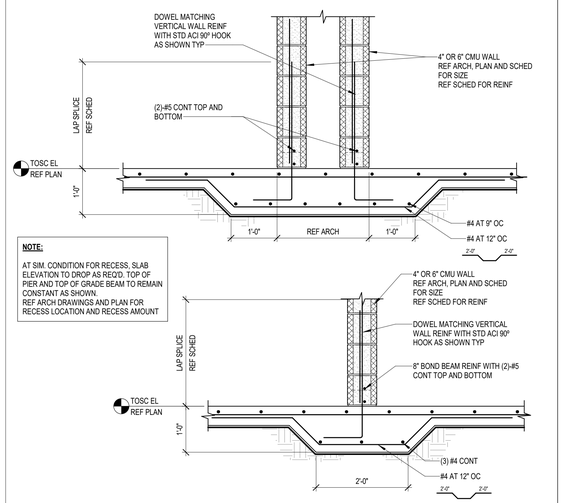
1 EXTERIOR PILASTER AT COLUMN
3/4" = 1'-0"



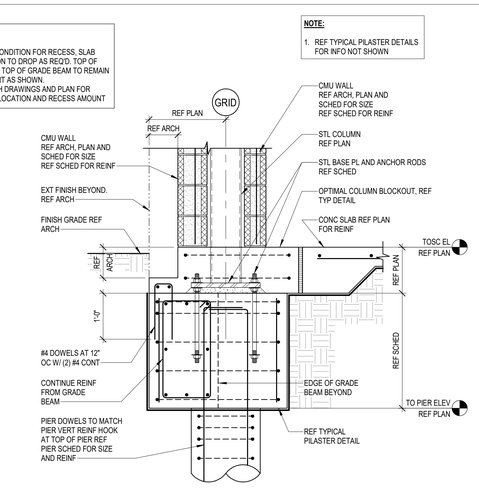
2 EXTERIOR GRADE BEAM AT CMU WALL
3/4" = 1'-0"



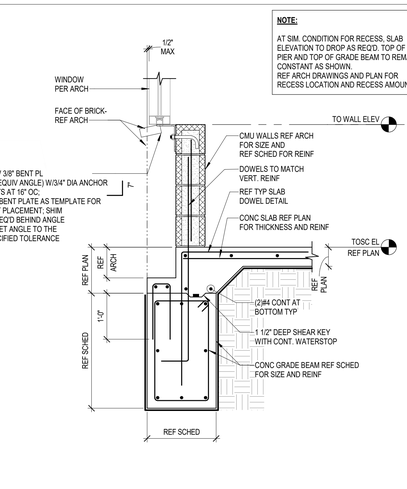
3 EXTERIOR WIDENED GRADE BEAM
3/4" = 1'-0"



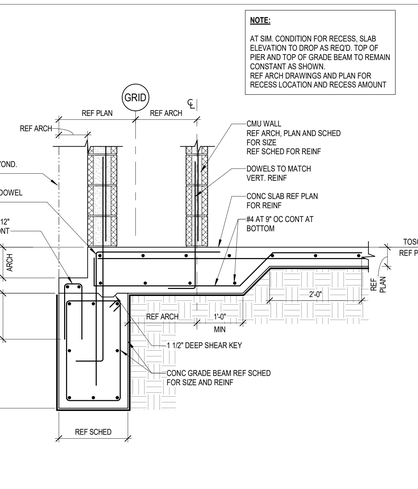
4 TYPICAL INTERIOR CMU ON SLAB-ON-GRADE
3/4" = 1'-0"



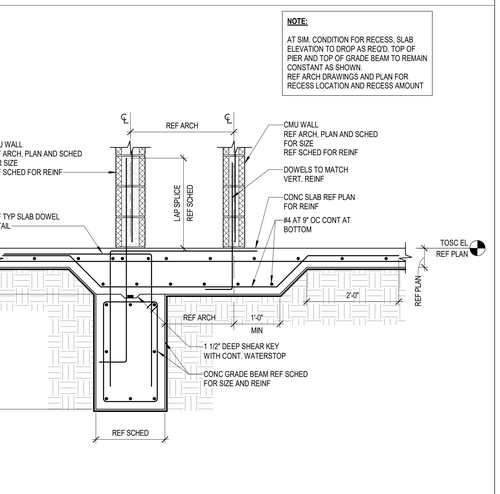
5 EXTERIOR GRADE BEAM AT DOUBLE CMU WALLS
3/4" = 1'-0"



6 INTERIOR GRADE BEAM AT DOUBLE CMU WALLS
3/4" = 1'-0"



7 INTERIOR CMU WALL AT INTERIOR GRADE BEAM
3/4" = 1'-0"



8 INTERIOR CMU WALL AT INTERIOR GRADE BEAM W/RECESS
3/4" = 1'-0"

9 EXTERIOR COLUMN AT PILASTER
3/4" = 1'-0"

10 CMU AT WINDOW
3/4" = 1'-0"

11 EXTERIOR GRADE BEAM AND THICKENED SLAB AT DOUBLE CMU WALLS
3/4" = 1'-0"

12 INTERIOR GRADE BEAM AND THICKENED SLA CMU WALLS
3/4" = 1'-0"

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Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J
H G F
K E D C
B A
KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

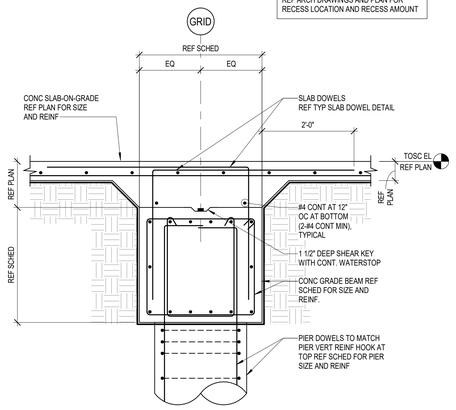
No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

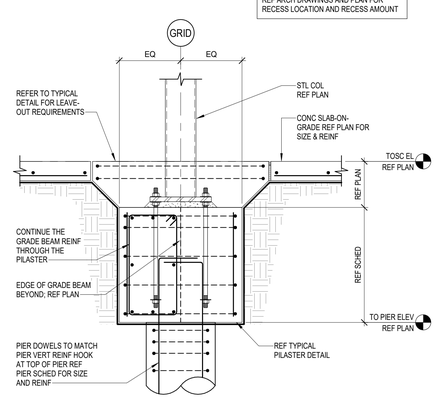
FOUNDATION DETAILS

S-310

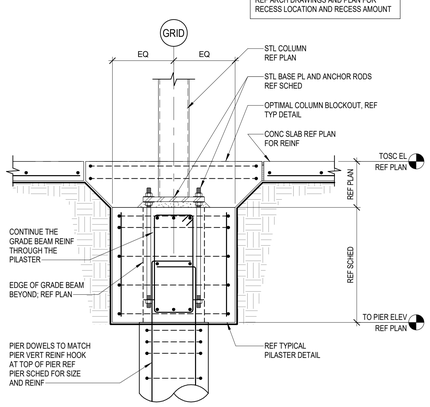
ISSUE FOR PROPOSAL



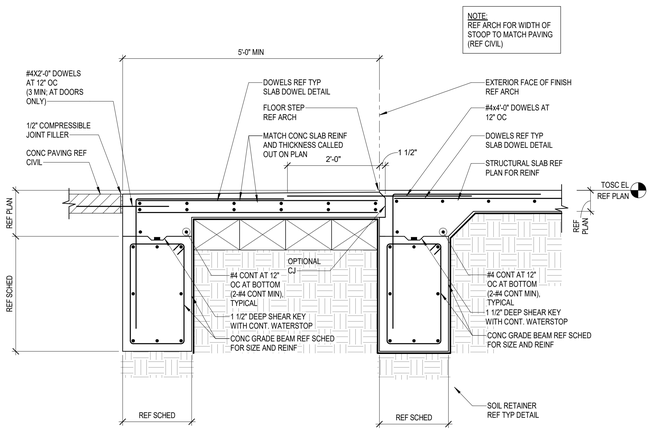
1 INTERIOR GRADE BEAM AT PIER
3/4" = 1'-0"



2 INTERIOR COLUMN AT PILASTER
3/4" = 1'-0"



3 INTERIOR COLUMN AT PILASTER
3/4" = 1'-0"



4 TYPICAL CONC SLAB-ON-GRADE STOOP AT EXTERIOR DOORS
3/4" = 1'-0"

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T 512-474-3464
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T 281-356-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

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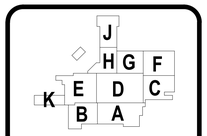
CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT



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FOUNDATION DETAILS (CONT.)

S-311

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File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/ST23_220023_CFISD_Arnold MS.rvt
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Plot Stamp:
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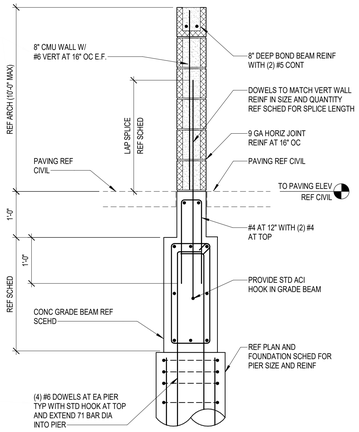
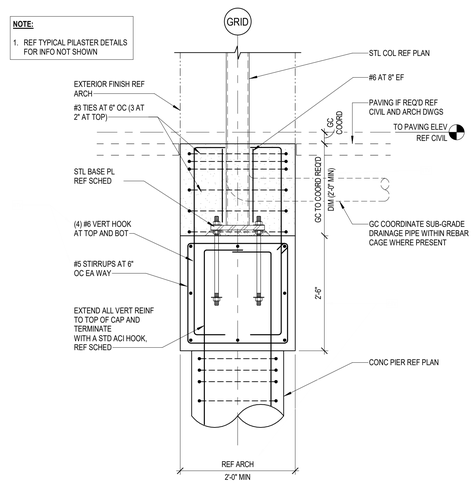
PROPOSAL
ISSUE FOR PROPOSAL

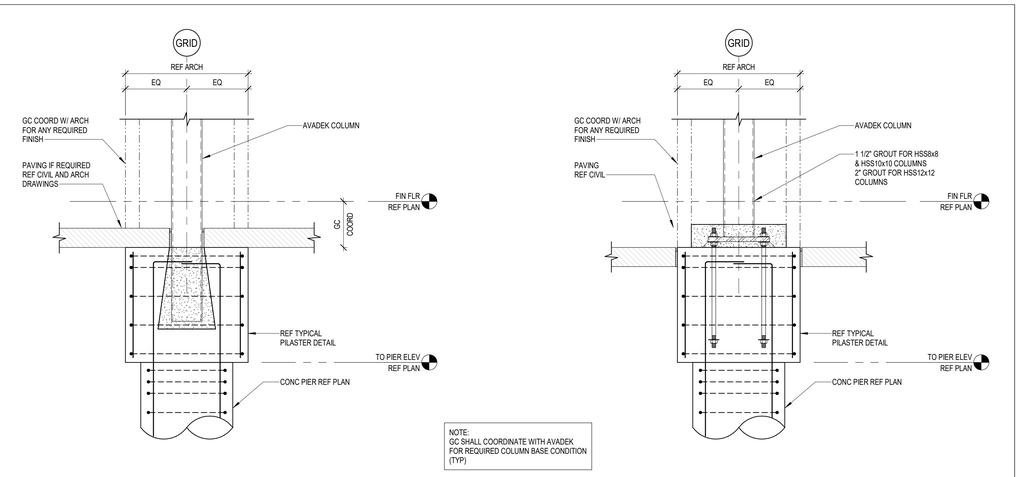
SITE ITEMS FOUNDATION DETAILS
S-320
FOR BLUEBEAM LABELING:



1 SCREEN WALL AT MECH YARD
3/4" = 1'-0"

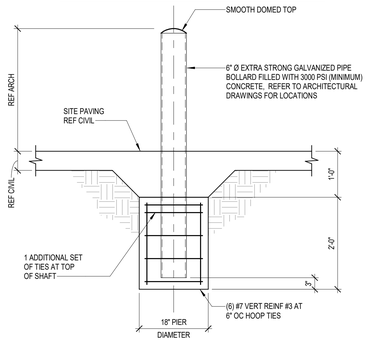


2 EXTERIOR COLUMN DETAIL
3/4" = 1'-0"

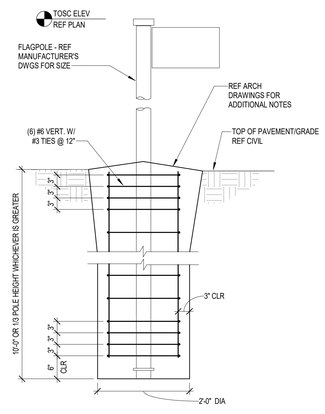


3 TYP AVADEK CANOPY COLUMN DETAIL
3/4" = 1'-0"

NOTE:
1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF BOLLARD LOCATIONS WITH THE ARCHITECTURAL DRAWINGS AND SHALL PROVIDE BOLLARDS WHERE REQUIRED WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT.



4 BOLLARD DETAIL
NO SCALE

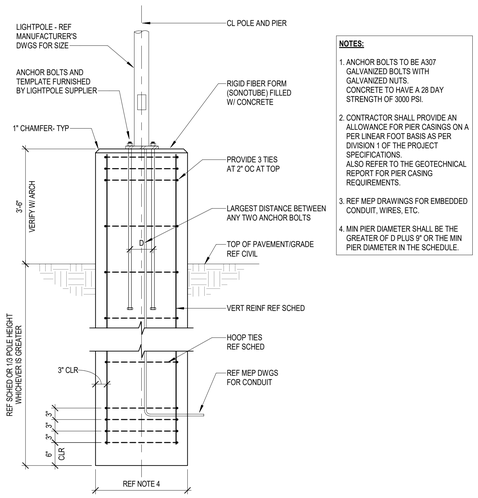


5 FLAGPOLE FOOTING DETAIL
NO SCALE

LIGHT POLE BASE SCHEDULE

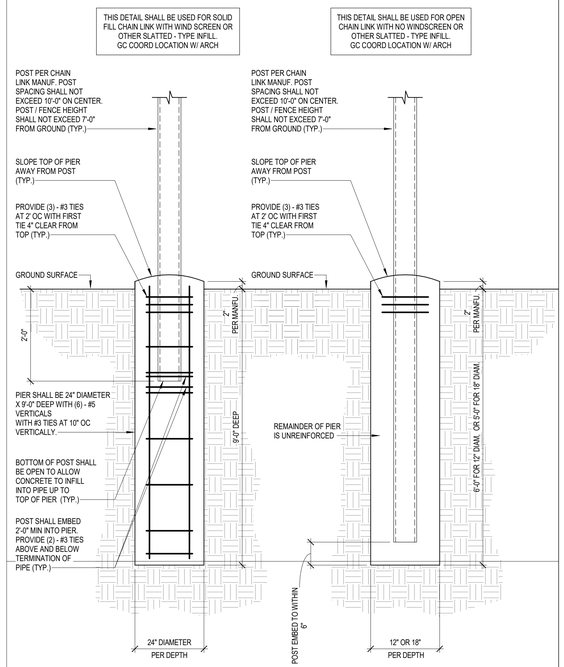
MAX POLE HT	MIN PIER DIAMETER	MIN DEPTH	VERT REINF	HOOP TIES	NOTES
18'-0" TO 24'-0"	18"	12'-0"	(6) #6	#3 AT 12" OC	1,2
25'-0" TO 30'-0"	24"	12'-0"	(6) #6	#3 AT 12" OC	1,2

NOTE(S):
1. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR PIER CASINGS ON A PER LINEAR FOOT BASIS AS PER DIVISION 1 OF THE PROJECT SPECIFICATIONS. ALSO REFER TO THE GEOTECHNICAL REPORT FOR PIER CASING REQUIREMENTS.
2. SPLICE VERTICAL REINFORCING IN PIERS WITH CLASS B TENSION LAP SPLICE.
3. OPTIONAL CONSTRUCTION JOINT IS ACCEPTABLE. DO NOT SPLICE VERTICAL REINFORCING ABOVE JOINT.
4. FOUNDATION DETAIL IS BASED ON A MAXIMUM FIXTURE EPA OF 1.2

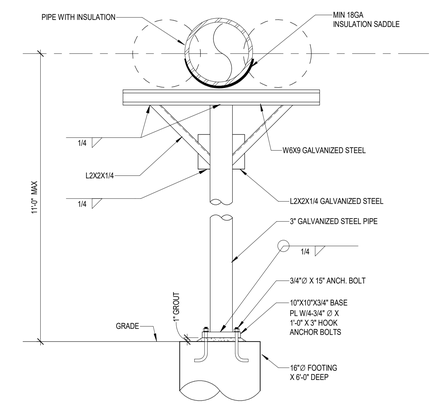


NOTES:
1. ANCHOR BOLTS TO BE A307 GALVANIZED BOLTS WITH GALVANIZED NUTS. CONCRETE TO HAVE A 28 DAY STRENGTH OF 3000 PSI.
2. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR PIER CASINGS ON A PER LINEAR FOOT BASIS AS PER DIVISION 1 OF THE PROJECT SPECIFICATIONS. ALSO REFER TO THE GEOTECHNICAL REPORT FOR PIER CASING REQUIREMENTS.
3. REF MEP DRAWINGS FOR EMBEDDED CONDUIT, WIRES, ETC.
4. MIN PIER DIAMETER SHALL BE THE GREATER OF D PLUS 9" OR THE MIN PIER DIAMETER IN THE SCHEDULE.

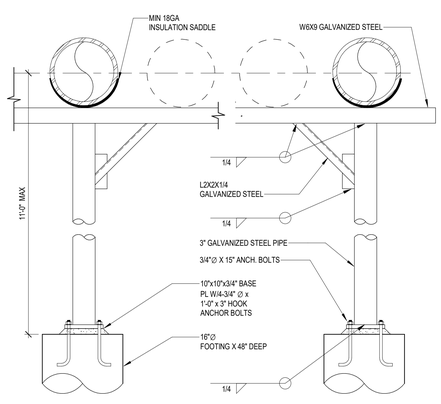
6 LIGHTPOLE FOOTING DETAIL
NO SCALE



7 CHAIN LINK FENCE POST DETAIL
NO SCALE

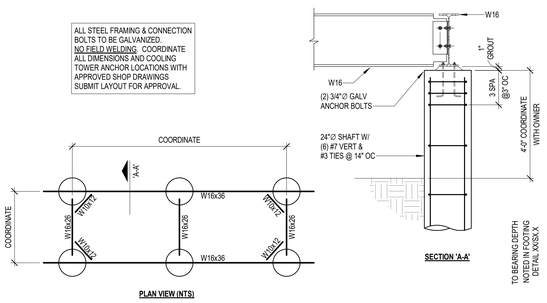


8 SINGLE COLUMN PIPE STANCHION DETAIL
NO SCALE



9 DOUBLE PIPE STANCHION PIPE SUPPORT DETAIL
NO SCALE

ALL STEEL FRAMING & CONNECTION BOLTS TO BE GALVANIZED.
NO FIELD WELDING. COORDINATE ALL DIMENSIONS AND COOLING TOWER ANCHOR LOCATIONS WITH APPROVED SHOP DRAWINGS. SUBMIT LAYOUT FOR APPROVAL.



10 COOLING TOWER SUPPORT DETAIL
NO SCALE

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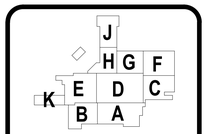
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

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SITE ITEMS FOUNDATION DETAILS

S-320

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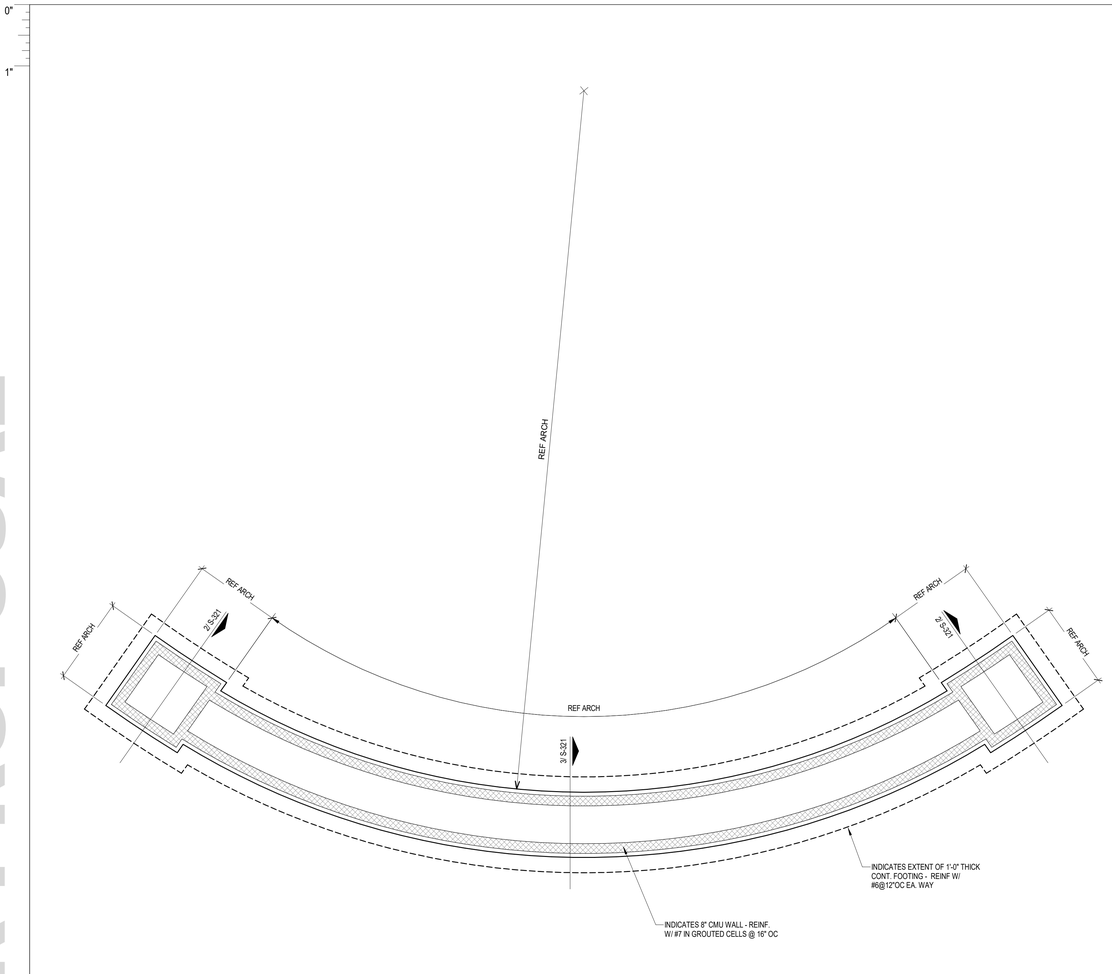
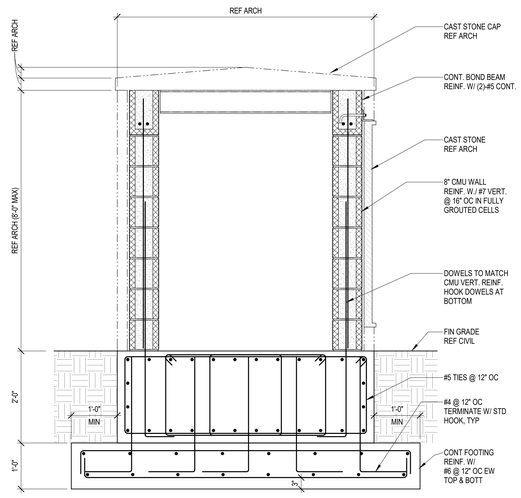
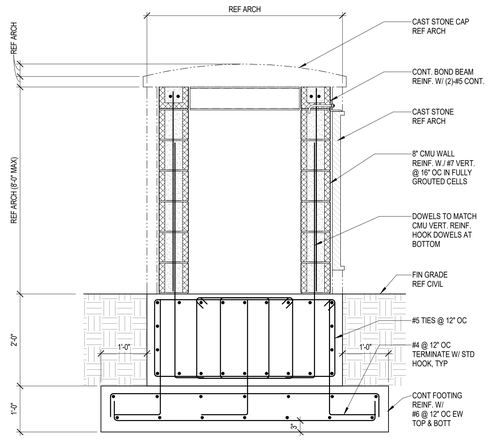


1 MONUMENT SIGN FOUNDATION PLAN
1/4" = 1'-0"



2 MARQUEE SIGN SECTION
3/4" = 1'-0"



3 MARQUEE SIGN SECTION
3/4" = 1'-0"

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SPECTRUM
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FOOD SERVICE
RSC
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POOL/AQUATICS
CONSULTANT NAME
T: 000-000-0000

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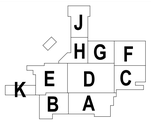
CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT



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NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
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CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

MONUMENT SIGN PLANS & DETAILS

S-321

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0"
1"

S-330
GENERAL EXISTING FOUNDATION NOTES AND TYPICAL DETAILS
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

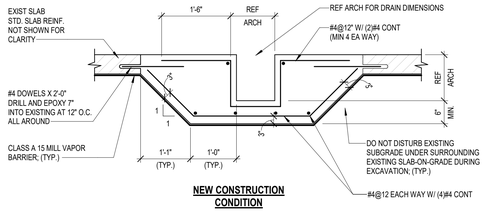
EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.

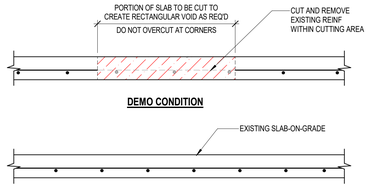
DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PREDEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.

NOTE:
1. GC SHALL COORDINATE LOCATIONS WITH ARCH DRAWINGS.
2. EXISTING GRADE BEAMS FOUND WITHIN DEMO SLAB AREA SHALL NOT BE DEMOLISHED UNLESS NOTED OTHERWISE IN STRUCTURAL FOUNDATION PLAN.



NEW CONSTRUCTION CONDITION

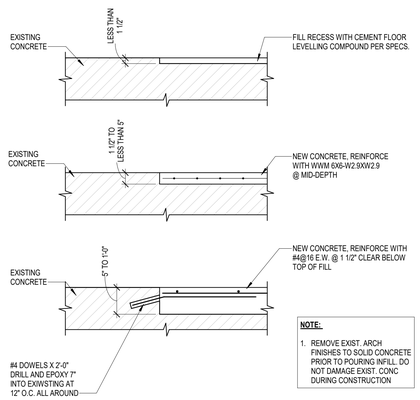


DEMO CONDITION

EXISTING CONDITION

1 TYPICAL FLOOR TRENCH DRAIN
NO SCALE

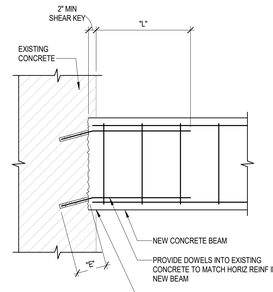
NOTE:
1. GC SHALL COORDINATE LOCATIONS WITH ARCH DRAWINGS.



NOTE:
1. REMOVE EXIST. ARCH FINISHES TO SOLID CONCRETE PRIOR TO POURING INFILL. DO NOT DAMAGE EXIST. CONC DURING CONSTRUCTION

2 INFILL AT EXIST. FLOOR RECESS
NO SCALE

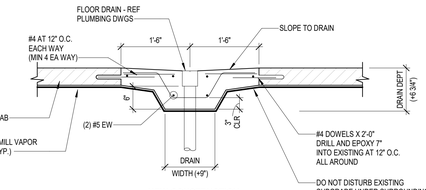
BAR SIZE	E	L
#3	7"	2'-0"
#4	8"	2'-0"
#5	10"	2'-7"
#6	14"	3'-1"
#7	15"	4'-6"
#8	16"	5'-2"
#9	18"	5'-10"
#10	20"	6'-8"
#11	22"	7'-4"



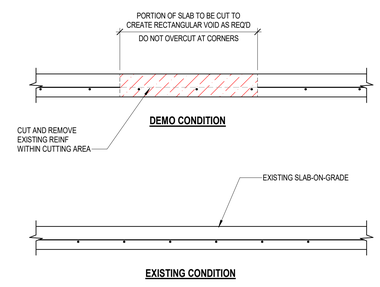
DOWELS SHALL BE ANCHORED WITH HILTI HY-200 V3 ADHESIVE OR APPROVED EQUAL. INSTALL DOWELS IN ACCORDANCE WITH THE MFR REQUIREMENTS FOR THE PRODUCT. INSTALLATION TO BE OBSERVED BY THE OWNERS TESTING LAB

3 CONCRETE BEAM CONNECTION TO EXISTING CONCRETE
NO SCALE

NOTE:
1. GC SHALL COORDINATE LOCATIONS WITH ARCH DRAWINGS.



NEW CONSTRUCTION CONDITION

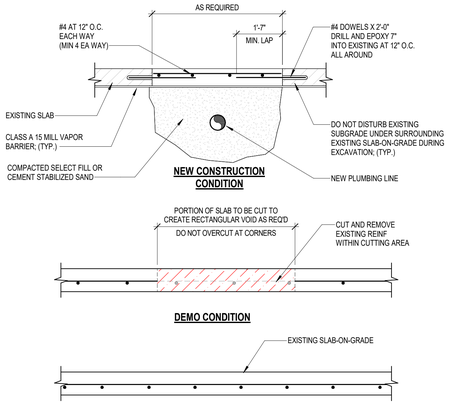


DEMO CONDITION

EXISTING CONDITION

4 FLOOR DRAIN DETAIL
NO SCALE

NOTE:
1. GC SHALL COORDINATE LOCATIONS WITH ARCH DRAWINGS.
2. EXISTING GRADE BEAMS FOUND WITHIN DEMO SLAB AREA SHALL NOT BE DEMOLISHED UNLESS NOTED OTHERWISE IN STRUCTURAL FOUNDATION PLAN.



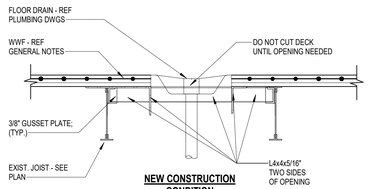
NEW CONSTRUCTION CONDITION

DEMO CONDITION

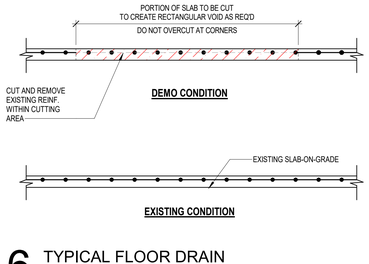
EXISTING CONDITION

5 NEW PLUMBING TRENCH IN SLAB-ON-GRADE
NO SCALE

NOTES:
1. DETAILS SHOWN HERE ARE FOR NON-COMPOSITE STEEL FLOORS. IF FLOOR IS COMPOSITE PLEASE INFORM E.O.R. TO REVIEW THE CONDITION. UNDER NO CIRCUMSTANCES SHALL ANY STEEL STRUCTURE BE CUT OR MODIFIED.
2. GC SHALL COORDINATE LOCATIONS WITH ARCH DRAWINGS.
3. DO NOT CUT ANY STRUCTURAL STEEL MEMBERS (TYP.)



NEW CONSTRUCTION CONDITION



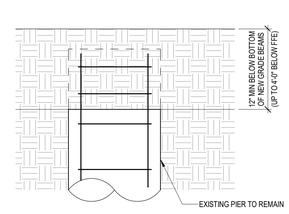
DEMO CONDITION

EXISTING CONDITION

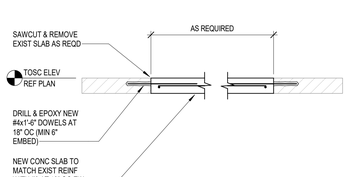
6 TYPICAL FLOOR DRAIN
NO SCALE

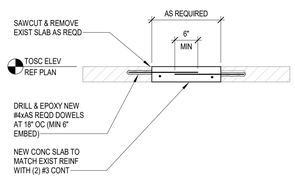
PREPARATION:
1. CHIP EXISTING CONCRETE PIER DOWN TO DEPTH SHOWN.
2. CUT PIER REINFORCEMENT FLUSH W/ TOP PIER.
3. PROVIDE EPOXY GROUT OVER EXPOSED REBAR.
4. BACKFILL/COMPACT OVER PIER AND ABANDON IN PLACE.

NOTE:
1. WHERE EXISTING PIER INTERFERES WITH NEW FOUNDATION/SLAB, CONTRACTOR SHALL REMOVE EXISTING TOP OF PIER TO AN ELEVATION 12 INCHES BELOW FUTURE GRADE BEAMS (UP TO 4'-0" BELOW FFE - REF GRADE BEAM SCHED).
2. IF DRILLED FOOTINGS ARE PLANNED TO BE EXCAVATED AND COMPLETELY REMOVED, THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED FOR ADDITIONAL RECOMMENDATIONS. COMPLETE REMOVAL OF DRILLED FOOTINGS WILL REQUIRE SIGNIFICANT EARTHWORK ACTIVITIES TO BACKFILL THE RESULTING EXCAVATIONS IN SUCH A MANNER AS TO MAKE THE SITE SUITABLE FOR NEW CONSTRUCTION.

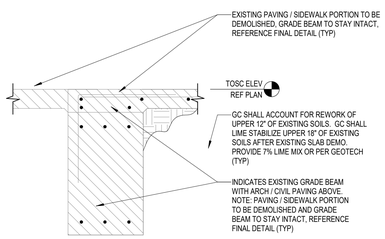


7 TYPICAL EXISTING PIER DETAIL
NO SCALE

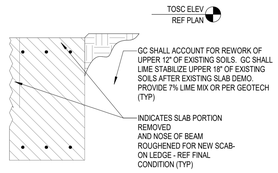




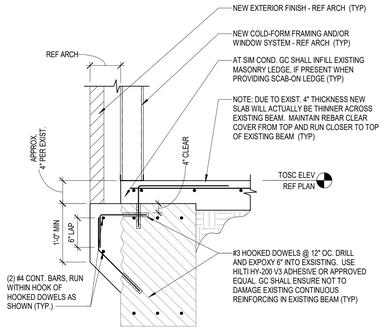
8 TYPICAL SLAB INFILL
NO SCALE



EXISTING CONDITION

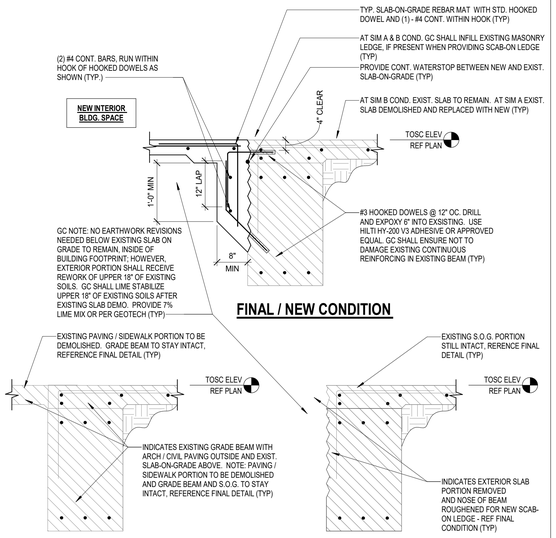


POST-DEMO CONDITION



FINAL / NEW CONDITION

9 TYPICAL BRICK SCAB ON DETAIL
NO SCALE



FINAL / NEW CONDITION

EXISTING CONDITION

POST-DEMO CONDITION

10 MODIFICATIONS AT EXIST. ENTRY
NO SCALE

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POOL/AQUATICS CONSULTANT NAME
T: 000-000-0000

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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

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KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

GENERAL EXISTING FOUNDATION NOTES AND TYPICAL DETAILS

S-330

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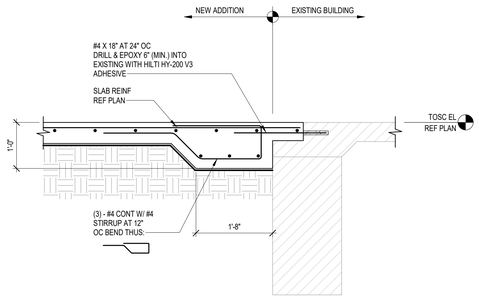
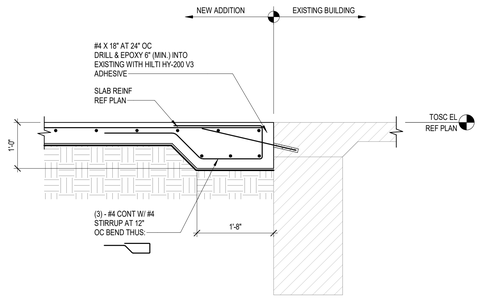
S-331
EXISTING FOUNDATION DETAILS
FOR BLUEBEAM LABELING/OCR:

0"
1"

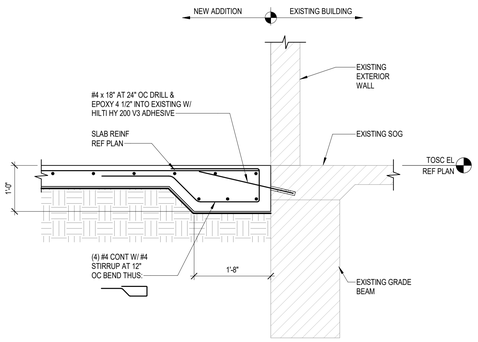


AT EXISTING WITH BRICK LEDGE



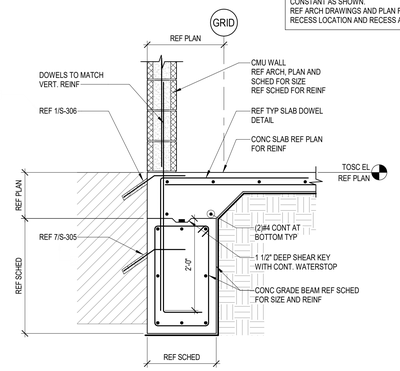
AT EXISTING WITHOUT BRICK LEDGE

1 DETAIL AT EXISTING
3/4" = 1'-0"

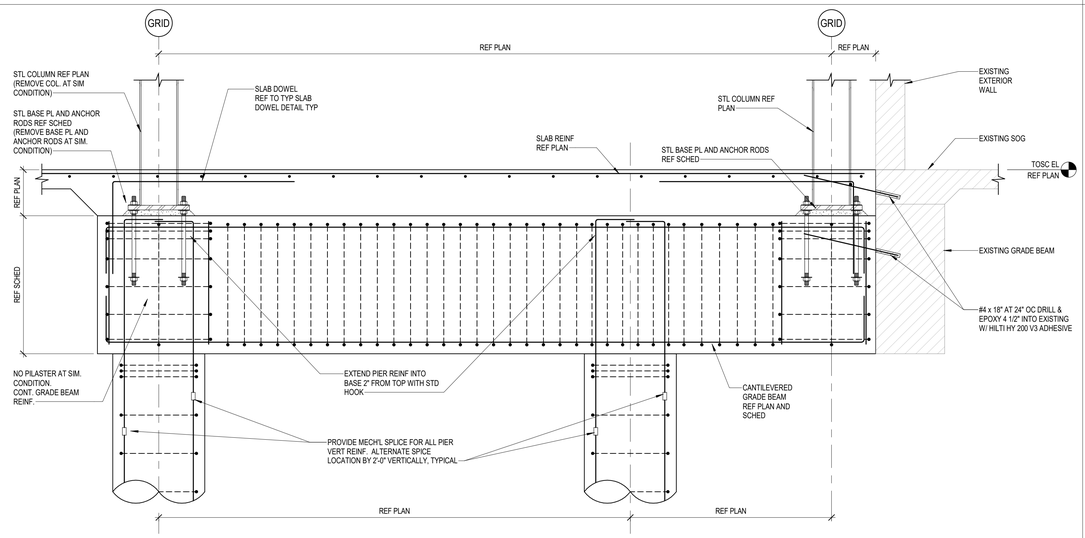


2 DETAIL AT EXISTING
3/4" = 1'-0"

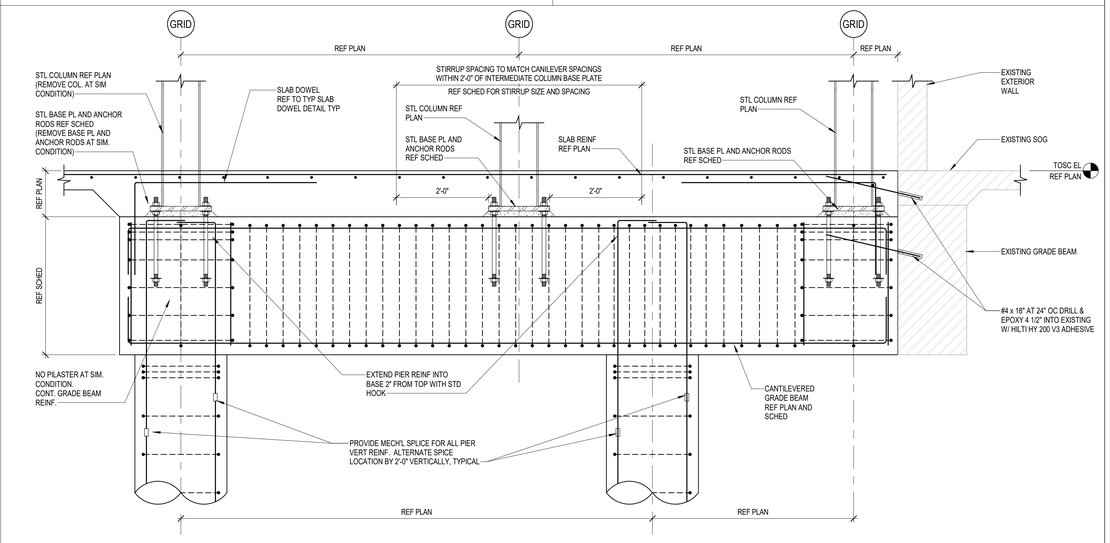
NOTE:
AT SIM. CONDITION FOR RECESS, SLAB ELEVATION TO DROP AS REQ'D. TOP OF PIER AND TOP OF GRADE BEAM TO REMAIN CONSTANT AS SHOWN.
REF ARCH DRAWINGS AND PLAN FOR RECESS LOCATION AND RECESS AMOUNT



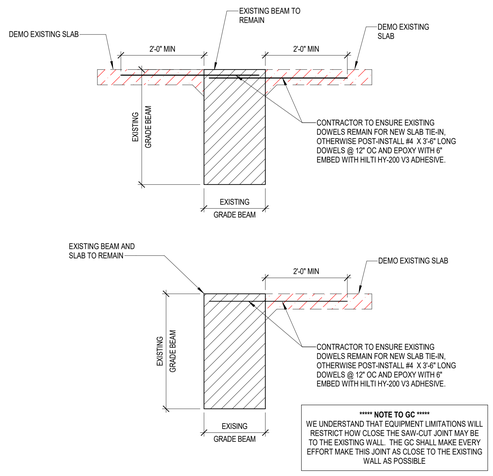
3 EXTERIOR GRADE BEAM AT CMU WALL
3/4" = 1'-0"



4 DETAIL AT EXISTING
3/4" = 1'-0"



5 DETAIL AT EXISTING
3/4" = 1'-0"



***** NOTE TO GC *****
WE UNDERSTAND THAT EQUIPMENT LIMITATIONS WILL RESTRICT HOW CLOSE THE SAW-CUT JOINT MAY BE TO THE EXISTING WALL. THE GC SHALL MAKE EVERY EFFORT MAKE THIS JOINT AS CLOSE TO THE EXISTING WALL AS POSSIBLE

6 FOUNDATION DEMO DETAIL
3/4" = 1'-0"

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CONSULTANT NAME
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02/17/2025
Kubala Engineers
F-23612

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EXISTING FOUNDATION DETAILS

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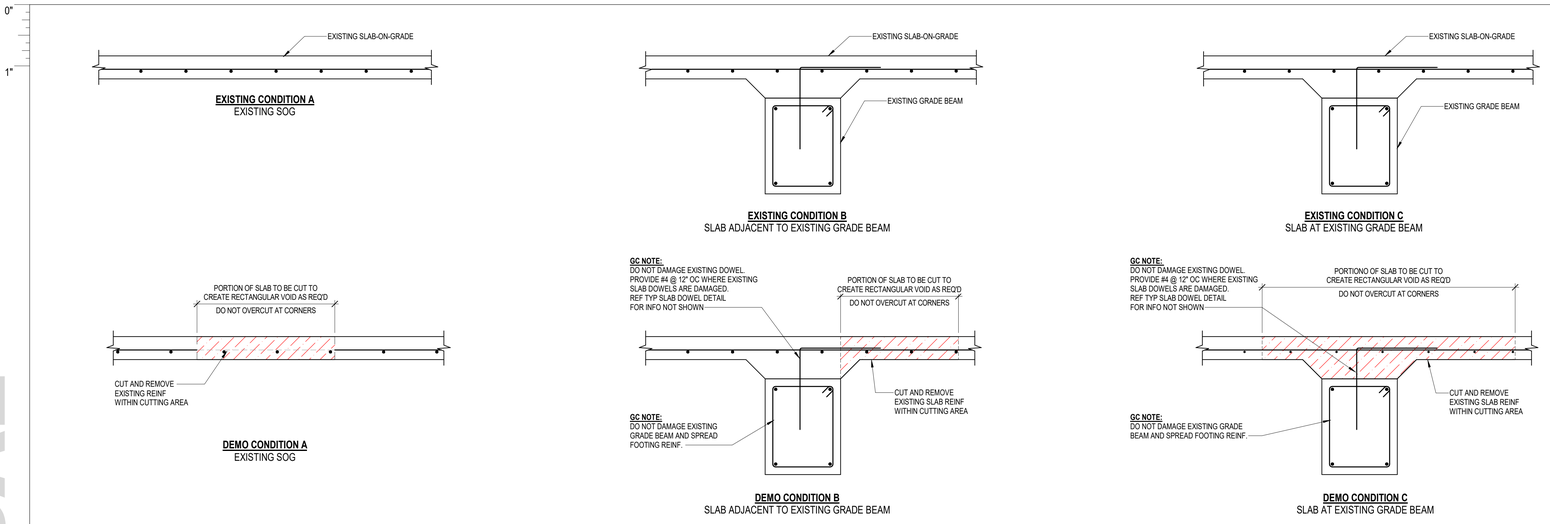
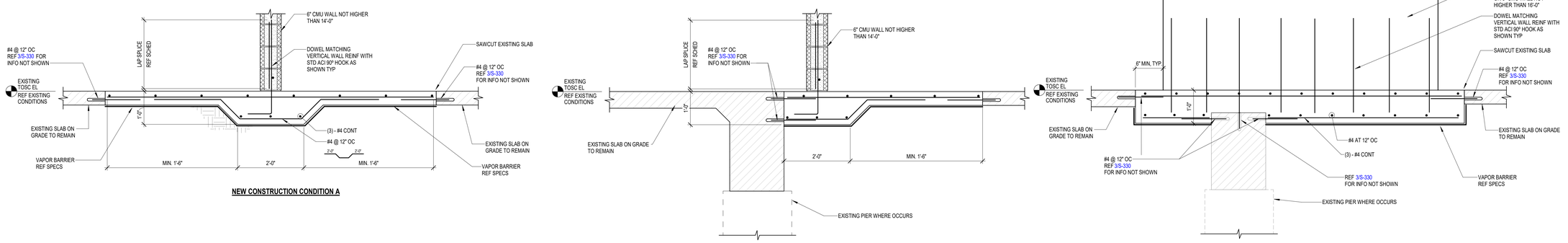
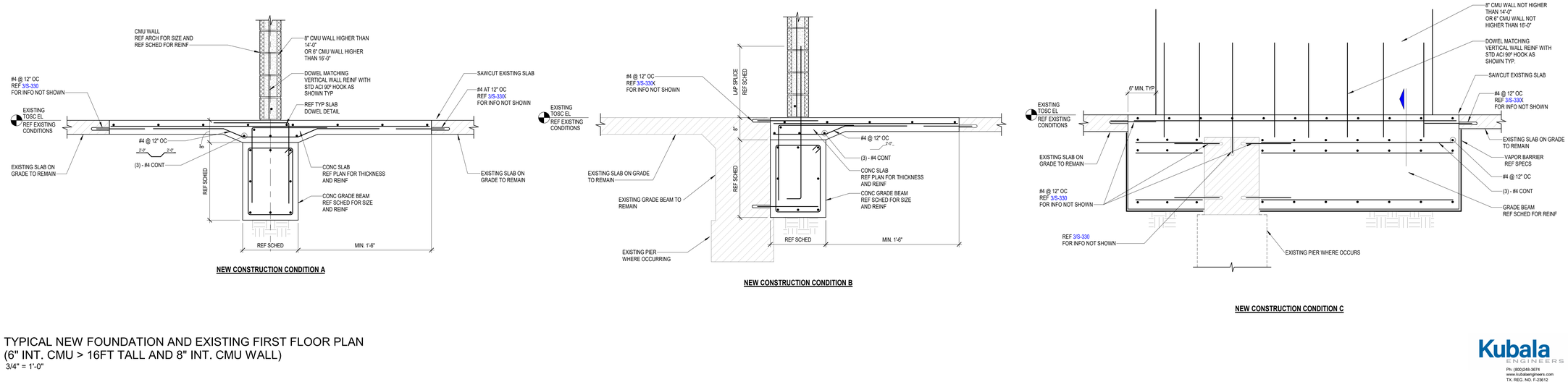


1 TYPICAL EXISTING AND DEMO CONDITIONS FOR NEW CMU WALLS IN EXISTING AREAS
3/4" = 1'-0"



2 TYPICAL INTERIOR CMU WALL ON SLAB-ON-GRADE (6" INTERIOR CMU WALL < 14'-0" TALL)
3/4" = 1'-0"



3 TYPICAL NEW FOUNDATION AND EXISTING FIRST FLOOR PLAN (6" INT. CMU > 16FT TALL AND 8" INT. CMU WALL)
3/4" = 1'-0"

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S-332
TYPICAL EXISTING FOUNDATION DETAILS AT NEW CMU WALLS
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CONSULTANT NAME
T 000-000-0000

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CYPRESS, TX 77429
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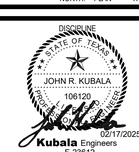
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN TRUE



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DATE 02/17/2025
PROJECT NUMBER 220023
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TYPICAL EXISTING FOUNDATION DETAILS AT NEW CMU WALLS

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S-340

GENERAL PEMB FOUNDATION NOTES AND TYPICAL DETAILS

FOR BLUEBEAM LABELING:

0"

1"

ISSUE FOR PROPOSAL

PRE-ENGINEERED METAL BUILDING:

1. DESIGN OF STEEL SUPERSTRUCTURE TO BE PROVIDED BY THE PRE-ENGINEERED METAL BUILDING SUPPLIER. COMPLY WITH METAL BUILDING MANUFACTURER'S ASSOCIATION "DESIGN PRACTICES MANUAL", AISI, AND AISC. METAL BUILDING SUPPLIER'S ENGINEER IS THE DELEGATED ENGINEER RESPONSIBLE FOR THE SUPERSTRUCTURE DESIGN AND FOR THE ACCURACY OF THE BUILDING FRAME REACTIONS SUPPLIED TO THE STRUCTURAL ENGINEER OF RECORD.

2. THE STEEL SUPERSTRUCTURE SHALL BE DESIGNED PER THE INTERNATIONAL BUILDING CODE (EDITION PER THE STRUCTURAL NOTES) UTILIZING DESIGN LOADS LISTED IN THE STRUCTURAL GENERAL NOTES. THE METAL BUILDING SUPPLIER'S ENGINEER SHALL REVIEW STRUCTURAL, ARCHITECTURAL, AND MECHANICAL / ELECTRICAL DRAWINGS AND COORDINATE WITH THESE DRAWINGS REGARDING DETAILS AND LOADS TO BE SUPPORTED.

3. COLLATERAL ROOF LOAD IS IN ADDITION TO DEAD LOAD OF PRE-ENGINEERED BUILDING FRAME, METAL DECK, AND INSULATION.

4. NO FABRICATION OF THE PRE-ENGINEERED METAL BUILDING SHALL BEGIN UNTIL SHOP DRAWINGS ARE APPROVED BY THE STRUCTURAL ENGINEER AND ARCHITECT. FINAL METAL BUILDING DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF THE LICENSED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

5. PROVIDE ADDITIONAL GIRTS OR OTHER MEMBERS, AS SPECIFIED IN THE PLANS, TO SUPPORT BUILDING ELEMENTS THAT ARE NOT PART OF THE PRE-ENGINEERED BUILDING.

6. BOTTOM FLANGE STRAPPING SHALL BE INSTALLED AS REQUIRED TO ROOF PURLINS TO PREVENT BUCKLING OF BOTTOM FLANGE DURING WIND UPLIFT.

7. PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED WITHIN THE FOLLOWING DEFLECTION CRITERIA:

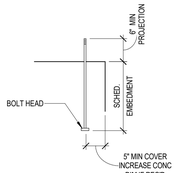
   LATERAL DRIFT OF MAIN FRAME: H/400
   LATERAL DEFLECTION OF WALL PURLINS: L/240
   VERTICAL DEFLECTION OF ROOF PURLINS: L/240
   LATERAL DEFLECTION OF END WALL COLUMNS: L/240
   VERTICAL DEFLECTION OF MEMBERS CARRYING BRICK: L/600
   LATERAL DEFLECTION OF WIND GIRTS SUPPORTING BRICK: L/600

8. ROOF LIVE LOAD SHALL NOT BE REDUCED.

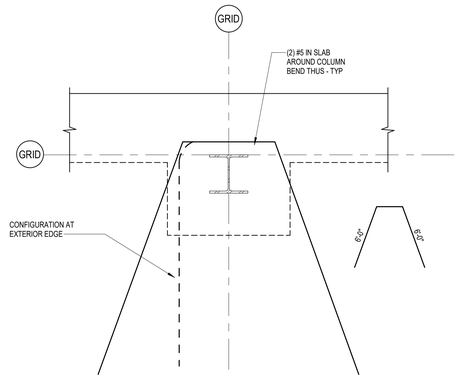
METAL BUILDING ANCHOR BOLTS SCHEDULE

BOLT DIAMETER (1)	MINIMUM EMBEDMENT (2) INTO CONCRETE FOUNDATION
1/2" DIA	18" EMBED
5/8" DIA	18" EMBED
3/4" DIA	18" EMBED
7/8" DIA	22" EMBED
1" DIA	22" EMBED
1 1/2" DIA	22" EMBED

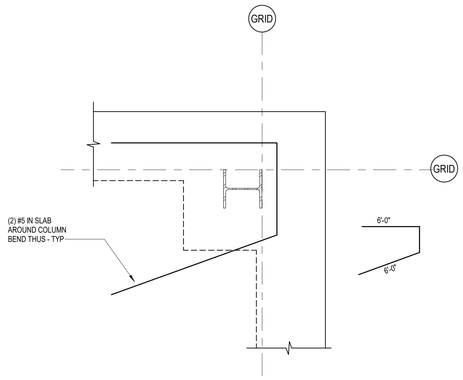
NOTE
1. SIZE OF BOLT TO BE DESIGNED BY METAL BUILDING DESIGNER & SUBMITTED FOR REVIEW.
2. IF DETAILED FOOTING OR FOOTING CAP DEPTH DOES NOT ALLOW FOR MINIMUM EMBEDMENT, A GREATER NUMBER OF SMALLER BOLTS SHALL BE USED OR STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR REDESIGN OF FOUNDATION PRIOR TO CONSTRUCTION.



TYPICAL DETAIL



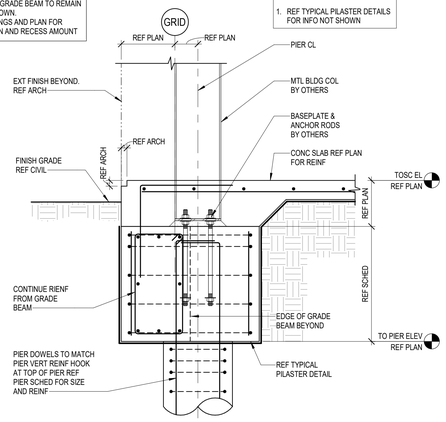
1 TYPICAL HAIRPIN PLAN DETAIL
3/4" = 1'-0"



AT CORNER

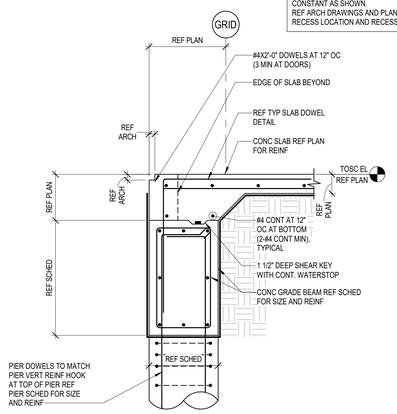
NOTE:
AT SIM. CONDITION FOR RECESS, SLAB ELEVATION TO DROP AS REQ'D. TOP OF PIER AND TOP OF GRADE BEAM TO REMAIN CONSTANT AS SHOWN.
REF ARCH DRAWINGS AND PLAN FOR RECESS LOCATION AND RECESS AMOUNT

NOTE:
1. REF TYPICAL PILASTER DETAILS FOR INFO NOT SHOWN



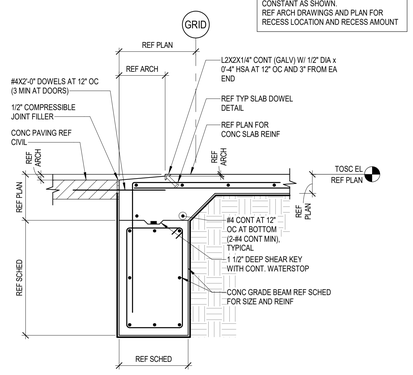
2 EXTERIOR PILASTER AT PEMB COLUMN
3/4" = 1'-0"

NOTE:
AT SIM. CONDITION FOR RECESS, SLAB ELEVATION TO DROP AS REQ'D. TOP OF PIER AND TOP OF GRADE BEAM TO REMAIN CONSTANT AS SHOWN.
REF ARCH DRAWINGS AND PLAN FOR RECESS LOCATION AND RECESS AMOUNT



3 EXTERIOR GRADE BEAM
3/4" = 1'-0"

NOTE:
AT SIM. CONDITION FOR RECESS, SLAB ELEVATION TO DROP AS REQ'D. TOP OF PIER AND TOP OF GRADE BEAM TO REMAIN CONSTANT AS SHOWN.
REF ARCH DRAWINGS AND PLAN FOR RECESS LOCATION AND RECESS AMOUNT



4 EXTERIOR GRADE BEAM AT OVERHEAD DOOR
3/4" = 1'-0"

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Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429

ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J H G F
K E D C
B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
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CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

GENERAL PEMB FOUNDATION NOTES AND TYPICAL DETAILS

S-340

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GENERAL CMU NOTES AND TYPICAL DETAILS

S-400

FOR BLUEBEAM LABELING/OCR:

0"

1"

MASONRY:

1. MASONRY TESTING SHALL CONSIST OF A QUALIFIED TESTING LABORATORY PROVIDING THE FOLLOWING SERVICES:

   A. OBSERVE THE INSTALLATION OF MASONRY UNITS.

   B. VERIFY THE QUANTITY, SIZE AND THE SPACING OF THE REQUIRED REINFORCING THAT IS SHOWN ON THE DRAWINGS.

   C. INSPECT THE GROUT SPACE PRIOR TO THE CLOSING OF CLEANOUTS AND ALL GROUTING OPERATIONS. VERIFY THAT THE SPECIFIED CELLS ARE FULLY GROUTED AS NOTED.

   D. MONITOR THE PROPORTIONING, MIXING AND CONSISTENCY OF MORTAR AND GROUT. PROVIDE 28 DAY COMPRESSIVE STRENGTH TESTS ON EACH GROUT MIX IN ACCORDANCE WITH ASTM C1019. PROVIDE COMPRESSION TESTS ON MASONRY PRISMS FOR EACH TYPE OF WALL CONSTRUCTION, IN ACCORDANCE WITH ASTM C1314. CONTRACTOR SHALL PREPARE ONE SET FOR TESTING AT 28 DAYS. TESTS ARE TO BE CONDUCTED FOR EACH 2000 SQUARE FEET OF WALL INSTALLED, BUT NOT LESS THAN TWO TESTS.

MASONRY NOTES:

MATERIALS:

1. ALL CONCRETE MASONRY UNITS (CMU) SHALL SHALL CONFORM TO ASTM C90, TYPE 1, GRADE N, AND THE QUALITY CONTROL STANDARDS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION.
2. ALL CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT (105 TO LESS THAN 125 PCF, OVEN DRY UNIT DENSITY).
3. ALL MASONRY UNITS SHALL HAVE A MAXIMUM LINEAR SHRINKAGE OF .06 OF 1% FROM THE SATURATED TO THE OVEN DRY CONDITION, WHEN TESTED WITH THE METHODS SET FORTH IN THE QUALITY CONTROL STANDARDS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION.
4. MASONRY UNITS SHALL HAVE CURED FOR NOT LESS THAN 28 DAYS WHEN PLACED IN THE STRUCTURE.

COMPRESSIVE STRENGTHS:

1. THE MINIMUM COMPRESSIVE STRENGTH OF MASONRY (f'm) SHALL BE 2000 PSI AS DETERMINED BY THE UNIT STRENGTH METHOD OR BY THE PRISM TEST METHOD.
2. ALL MASONRY UNITS SHALL HAVE A MINIMUM NET COMPRESSIVE STRENGTH OF 2500 PSI AND A MINIMUM NET TENSILE STRENGTH OF 125 PSI, WHEN TESTED IN ACCORDANCE WITH THE METHODS SET FORTH IN THE QUALITY CONTROL STANDARDS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION.

MORTAR:

1. UNLESS NOTED OTHERWISE, MORTAR SHALL CONFORM TO ASTM C270, TYPE 'S'. MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED IN THE RATIO OF 1 PART PORTLAND CEMENT, 1/4 PART MINIMUM TO 1/2 PART MAXIMUM LIME PUTTY OR HYDRATED LIME, DAMP LOOSE SAND NOT LESS THAN 2-1/4 AND NOT MORE THAN 3 TIMES THE SUM OF THE VOLUMES OF THE CEMENT AND LIME USED.

GROUT:

1. GROUT FOR POURING SHALL BE OF FLUID CONSISTENCY AND MIXED IN THE RATIO BY VOLUMES, 1 PART PORTLAND CEMENT, 2 1/4 PARTS MINIMUM TO 3 PARTS MAXIMUM DAMP LOOSE SAND, 1 PART MINIMUM TO 2 PARTS MAXIMUM PEA GRAVEL, AND 0 TO 1/10 PART MAXIMUM HYDRATED LIME. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI, WHEN TESTED IN ACCORDANCE WITH ASTM C476.
2. GROUT FOR PUMPING SHALL BE OF FLUID CONSISTENCY AND SHALL HAVE NO LESS THAN 7 SACKS OF CEMENT IN EACH CUBIC YARD OF GROUT. SUBMIT THE MIX FOR APPROVAL.
3. ALL CELLS WITH REINFORCING BARS SHALL BE GROUTED SOLID.
4. ALL CELLS THAT WILL HAVE DRILLED EXPANSION ANCHORS, EMBEDDED HEADED STUDS OR OTHER EMBEDDED ANCHORS MUST BE GROUTED SOLID.

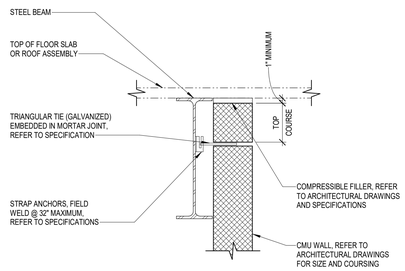
REINFORCEMENT:

1. PROVIDE HORIZONTAL JOINT REINFORCING (TRUSS OR LADDER TYPE, 9 GAGE) AT 16" OC VERTICALLY AT ALL CMU WALLS. PROVIDE PRE-FAB WIRE TIES AT ALL CORNERS AND INTERSECTIONS AT 16" O.C. REINFORCEMENT SHALL CONFORM TO ASTM A82 WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI, AND SHALL BE HOT DIPPED GALVANIZED.
2. OPENINGS IN MASONRY WALLS SHALL HAVE EITHER MASONRY OR STEEL LINTELS AS SHOWN ON THE DRAWINGS. ALL HORIZONTAL REINFORCING IN BOND BEAMS AND LINTEL BLOCKSSHALL BE CONTINUOUS, AND GROUTED SOLID. WHEN NO LINTEL IS DETAILED, A MINIMUM OF (2) #4 BARS IN A LINTEL BLOCK SHALL BE INSTALLED. THE BARS SHALL EXTEND A MINIMUM OF EIGHT INCHES BEYOND THE EDGE OF THE OPENING, AND EACH JAMB SHALL BE GROUTED SOLID FOR A DISTANCE OF EIGHT INCHES WITH (2) #5 VERTICAL MINIMUM. STEEL LINTELS SHALL BEAR 8" MINIMUM AT EACH END. PROVIDE VERTICAL CONTROL JOINTS AT THE ENDS OF ANY STEEL LINTEL, UNLESS 15# FELT OR FLASHING IS PROVIDED AT THE TOP AND BOTTOM OF THE LINTEL ANGLE WHERE THE ANGLE BEARS ON BRICK.
3. LINTEL BLOCKS SHALL BE "U" SHAPED UNITS WITH SOLID BOTTOMS AND ARE TO BE USED OVER WINDOW AND DOOR OPENINGS. BOND BEAM BLOCKS SHALL BE OPEN BOTTOM UNITS AND ARE TO BE USED AT THE TOPS OF WALLS AND AT THE MID-HEIGHT, UNLESS THE WALL HEIGHT EXCEEDS 16 FEET, IN WHICH BOND BEAMS SHALL BE PROVIDED 8'-0" ON CENTER VERTICALLY MAXIMUM, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. PROVIDE (2) #4 BARS IN A SOLID GROUTED BOND BEAM UNLESS NOTED OTHERWISE. LINTEL BLOCKS SHALL NOT BE USED IN PLACE OF BOND BEAM BLOCKS.
4. ALL MASONRY TIES TO BACKUP STRUCTURE SHALL BE HOT DIP GALVANIZED. UNLESS OTHERWISE NOTED ON THE DRAWINGS, PROVIDE HECKMANN NO. 315 ANCHOR WITH NO. 316 TRIANGULAR TIE ON COLUMNS AT 16" ON CENTER VERTICALLY AND A HECKMANN NO. 357 ANCHOR ON ALL BEAMS AT 16" ON CENTER HORIZONTALLY. MASONRY TIES TO WALL STUDS SHALL BE HECKMANN NO. 316 TRIANGULAR TIE WITH HECKMANN NO. 315-C SCREW ON ANCHOR STRAP SPACED 16" ON CENTER HORIZONTALLY VERTICALLY. AT WALL CORNERS, INTERSECTIONS AND OPENINGS, PROVIDE TWO VERTICAL ROWS OF ANCHORS SPACED 16" APART AND 16" ON CENTER VERTICALLY. TRIANGULAR TIES SHALL EXTEND 3/4" FROM FACE OF MASONRY. ANCHOR STRAPS SHALL BE ATTACHED TO METAL STUDS WITH TWO (2) #10-16x1 1/2" CADMIUM PLATED SHEET METAL SCREWS.
5. AT FREE VERTICAL EDGES OF WALLS, AND AT THE FIRST CELL EACH SIDE OF CONTROL JOINTS, PROVIDE (1) VERTICAL IN GROUT FILLED END CORES. THE VERTICAL REINFORCING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING UNLESS NOTED OTHERWISE, AND SHALL EXTEND TO THE TOP OF THE WALL.
6. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE A MINIMUM OF #4 VERTICAL BARS AND DOWELS IN FULLY GROUTED CELLS AT 48" O.C.
7. ALL BAR REINFORCING SHALL BE LAPPED AS FOLLOWS:

   #3 LAP SPLICE LENGTH = 19 INCHES
   #4 LAP SPLICE LENGTH = 34 INCHES
   #5 LAP SPLICE LENGTH = 45 INCHES
   #6 LAP SPLICE LENGTH = 54 INCHES
   #7 LAP SPLICE LENGTH = 63 INCHES
   #8 LAP SPLICE LENGTH = 72 INCHES
   #9 LAP SPLICE LENGTH = 82 INCHES
   INCREASE LAP SPLICE LENGTHS BY 50% FOR EPOXY COATED REINFORCING

MISCELLANEOUS:

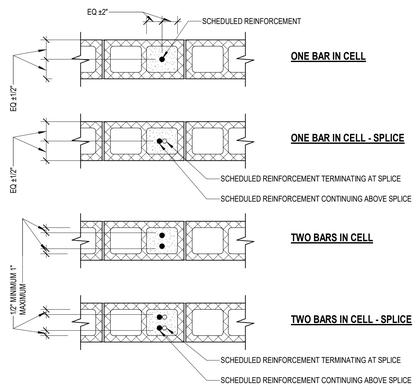
1. ALL MASONRY DESIGN IS BASED ON CHAPTER 21 OF INTERNATIONAL BUILDING CODE, LATEST EDITION AND ACI 530, LATEST EDITION.
2. SEE TYPICAL DETAILS FOR INTERIOR WALL BRACING, AND REINFORCING REQUIREMENTS.
3. UNLESS NOTED OTHERWISE PER PLANS, SPECS OR DETAILS, MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS PER NCMA GUIDELINES TEK 10-2C AS FOLLOWS:
   - AT APPROXIMATELY SIXTEEN FEET ON CENTER
   - CORNERS-AT A MAXIMUM DISTANCE NOT TO EXCEED ONE-HALF THE REQUIRED MAXIMUM DISTANCE
   - BETWEEN MAIN AND INTERSECTING WALLS
   - CHANGES IN WALL HEIGHTS
   - ADJACENT TO LINTELS AND THROUGH OPENINGS IF NOT CROSSING VERTICAL REINFORCEMENT
   - AT PILASTERS AND CHANGES IN WALL THICKNESS
   - ALL JOINT LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT.
4. UNLESS NOTED OTHERWISE PER PLANS, SPECS OR DETAILS, BRICK VENEER CONTROL JOINTS SHALL BE PER BIA GUIDELINES-TECHNICAL NOTE 18A.
   - WITHOUT OPENINGS, SPACE NO MORE THAN 25 FT
   - WITH MULTIPLE OPENINGS, SPACE NO MORE THAN 20 FT
   - AT OR NEAR CORNERS
   - AT OFFSETS AND SETBACKS
   - AT WALL INTERSECTIONS
   - AT CHANGES IN WALL HEIGHTS
   - AT WALL BACKING SYSTEM CHANGES (CMU TO DRYWALL)
   - AT SUPPORT CHANGES (CONCRETE TO STEEL)
   - AT WALL FUNCTION OR CLIMATIC EXPOSURE CHANGES (INTERIOR TO EXTERIOR)
5. GROUT LIFT LIMITS
   - GROUT POURS SHALL NOT EXCEED 5 FEET PER LIFT WHEN GROUTING THE CELLS OF REINFORCED CMU, UNLESS CLEANOUTS ARE PROVIDED IN THE BOTTOM COURSE OF EACH 5 FOOT SECTION.
   - GROUT POURS SHALL NOT EXCEED 24 FEET WHEN GROUTING THE CELLS OF HOLLOW CMU. WHEN GROUTING THE SPACE BETWEEN MULTI-WYTHE WALLS, THE TOTAL POUR SHALL NOT EXCEED 24 FEET FOR 3" SPACES, 12 FEET FOR 2 1/2" SPACES, AND 5 FEET FOR 2" SPACES.
   - MECHANICALLY VIBRATE ALL LIFTS IN EXCESS OF 1 FOOT.
   - ALL GROUT MUST BE PLACED WITHIN 1 1/2 HOURS FROM INTRODUCING WATER INTO THE MIXTURE.
   - GROUT LIFTS SHALL NOT BE STOPPED WITHIN 1 1/2" OF BED JOINT.
   - ALL CMU WALLS LOCATED ADJACENT TO EARTH FILL MUST BE FULLY GROUTED DIRECTLY ADJACENT TO, AND AT EAST 8" ABOVE, ALL SOIL IN CONTACT WITH THE WALL.



NOTE:

1. THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS. USE OF THIS DETAIL IS LIMITED TO WALL HEIGHTS UP TO 36 TIMES THE NOMINAL WALL THICKNESS.

1 TYPICAL INTERIOR NON-BEARING CMU WALL SIDE CONNECTION
NO SCALE



2 TYPICAL CMU VERTICAL BAR PLACEMENT
NO SCALE

NOTES:

1. REINFORCEMENT MUST BE PLACED USING REINFORCING BAR POSITIONERS THAT LOCATE THE BAR AS SPECIFIED AND PREVENT MOVEMENT OF THE BAR DURING CONSTRUCTION.
2. SPLICED REINFORCEMENT MUST BE A CONTACT LAP SPLICE WITH SPLICED BARS ALIGNED PARALLEL TO THE WALL AS SHOWN.
3. THE ENGINEER MUST BE NOTIFIED PRIOR TO PLACEMENT OF REINFORCEMENT THAT IS REQUIRED TO BE PLACED OUTSIDE OF THE TOLERANCES OF THIS DETAIL SUCH AS TO AVOID INTERFERENCE WITH OTHER REINFORCEMENT, CONDUITS, OR EMBEDDED ITEMS.

BRACE FRAMING (3 5/8" STUDS)				
STUD TYPE	STUD PROPERTIES	SPACING	MAX LENGTH	MISCELLANEOUS
SJ 20 (40 KSI)	Ix = 0.541 IN^4 rx = 1.429 IN A = 0.2136 IN^2 Sx = 0.273 IN^3	4'-0" OC	14'-0"	BRACE @ MID-PT FOR LENGTHS OVER 14'-0"

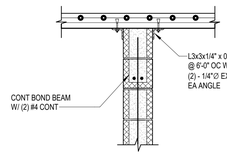
VERTICAL FRAMING (3 5/8" STUDS)				
STUD TYPE	STUD PROPERTIES	SPACING	MAX LENGTH	MISCELLANEOUS
ST 25 (33 KSI)	Ix = 0.239 IN^4 rx = 1.415 IN A = 0.123 IN^2 Sx = 0.113 IN^3	1'-4" OC	16'-9"	ONE LAYER SHEATHING (MIN) *
ST 20 (33 KSI)	Ix = 0.414 IN^4 rx = 1.407 IN A = 0.210 IN^2 Sx = 0.213 IN^3	1'-4" OC	22'-6"	ONE LAYER SHEATHING (MIN) *

*OR PROVIDE 1 1/2x1 1/2x16 GA HORIZONTAL CHANNEL FASTENED TO STUDS WITH 1 1/2x1 1/2x14 GA CLIP AT 4'-0" OC VERTICALLY

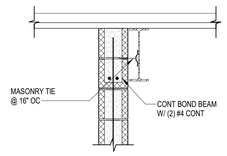
BRACE FRAMING (6" STUDS)				
STUD TYPE	STUD PROPERTIES	SPACING	MAX LENGTH	MISCELLANEOUS
SJ 20 (40 KSI)	Ix = 1.787 IN^4 rx = 2.253 IN A = 0.2148 IN^2 Sx = 0.539 IN^3	4'-0" OC	20'-0"	BRACE @ MID-PT FOR LENGTHS OVER 20'-0"

VERTICAL FRAMING (6" STUDS)				
STUD TYPE	STUD PROPERTIES	SPACING	MAX LENGTH	MISCELLANEOUS
ST 25 (33 KSI)	Ix = 0.773 IN^4 rx = 2.209 IN A = 0.167 IN^2 Sx = 0.184 IN^3	1'-4" OC	20'-0"	ONE LAYER SHEATHING (MIN) *
ST 20 (33 KSI)	Ix = 1.385 IN^4 rx = 2.199 IN A = 0.288 IN^2 Sx = 0.437 IN^3	1'-4" OC	32'-9"	ONE LAYER SHEATHING (MIN) *

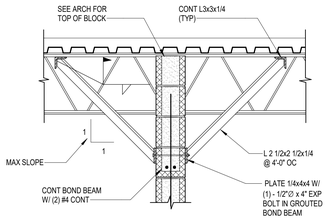
*OR PROVIDE 1 1/2x1 1/2x16 GA HORIZONTAL CHANNEL FASTENED TO STUDS WITH 1 1/2x1 1/2x14 GA CLIP AT 4'-0" OC VERTICALLY



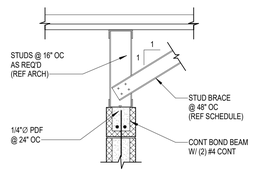
TYPE A (FLOOR)



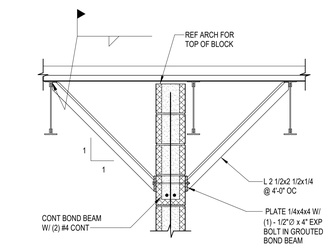
TYPE D (FLOOR / ROOF)



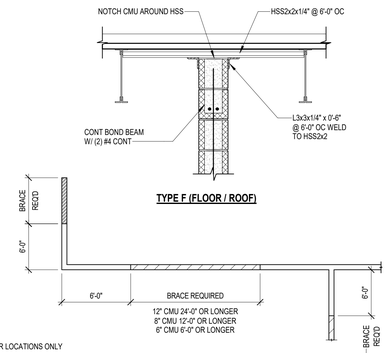
TYPE B (FLOOR / ROOF)



TYPE E (FLOOR / ROOF)



TYPE C (FLOOR / ROOF)



TYPE F (FLOOR / ROOF)

INTERIOR LOCATIONS ONLY

NON-LOAD BEARING MASONRY WALL BRACES. BRACING AT THE TOP OF MASONRY WALLS IS REQUIRED ON STRAIGHT RUNS OF WALL MORE THAN SIX FEET FROM A CORNER, INTERSECTING WALL, OR AS NOTED ABOVE.

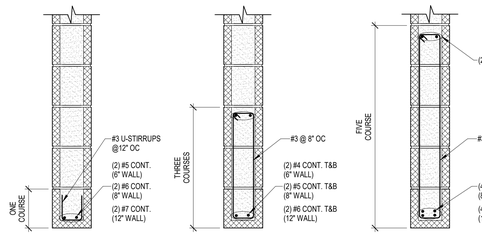
WHEN THE MASONRY WALL TERMINATES AT THE BOTTOM OF THE DECK, A TYPE 'A' ATTACHMENT AT THE FLOOR DECK OR A TYPE 'B', 'C', 'D' OR 'F' ATTACHMENT AT EITHER THE FLOOR OR ROOF MAY BE USED. WHEN WALLS TERMINATE ABOVE THE CEILING A TYPE 'B', 'C' OR 'E' ATTACHMENT SHOULD BE USED.

TYPICAL CMU WALL BRACING LOCATION PLAN

5 TYPICAL NON-STRUCTURAL CMU WALL BRACE CONNECTIONS
NO SCALE

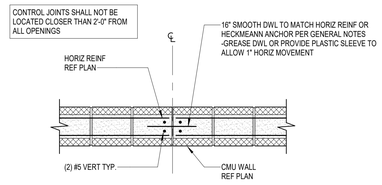
NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS. PROVIDE BLOCK LINTELS FOR ALL OPENINGS AT INTERIOR AND EXTERIOR WALLS FOR WHICH A STEEL LINTEL IS NOT SCHEDULED.
2. PROVIDE 1" OF BEARING @ EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 8". REINFORCING SHALL EXTEND A MINIMUM OF 6" ONTO THE BEARING.
3. FOR REINFORCED CMU WALLS AT OPENINGS, PROVIDE EXTRA REINFORCED GROUTED FULL HEIGHT/CONSECUTIVE CELLS EACH SIDE OF THE OPENING EQUAL TO ONE HALF OF THE TOTAL NUMBER OF CELLS INTERRUPTED BY THE OPENING. REINFORCE EACH CELL WITH THE SAME SIZE AND NUMBER OF BARS AS SPECIFIED FOR THE INTERRUPTED CELLS. PROVIDE A MINIMUM OF (2) REINFORCED GROUTED CELLS EACH SIDE OF OPENING. REFER TO TYPICAL CMU WALL OPENING DIAGRAM AND SCHEDULE FOR ADDITIONAL INFORMATION.
4. AS AN ALTERNATIVE TO USING A FILLED CMU BLOCK LINTEL (PER THE SCHEDULE ABOVE) FOR OPENINGS 5'-0" AND LESS, CONTRACTOR MAY USE CAST CRETE LINTEL (BU8).



OPENINGS LESS THAN 5'-0" | **OPENINGS LESS THAN 8'-0"** | **OPENINGS LESS THAN 15'-0"**

3 MASONRY LINTEL SCHEDULE
NO SCALE



4 TYPICAL CONTROL JOINT DETAIL
NO SCALE

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Arnold Middle School

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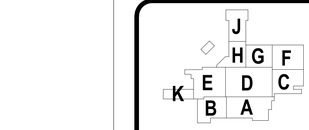
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN



NORTH: PLAN TRUE

DISCIPLINE
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JOHN R. KUBALA
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LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

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S-400

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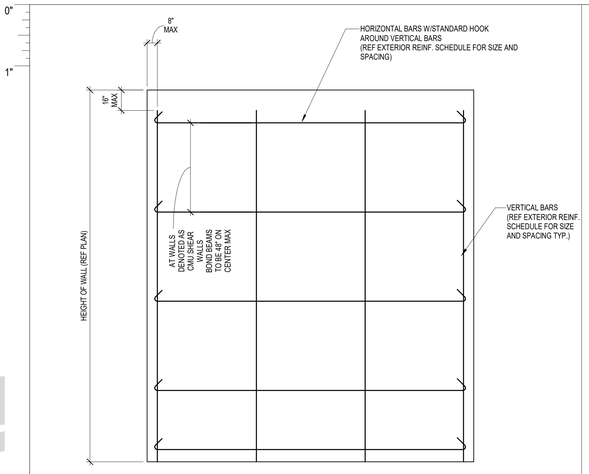


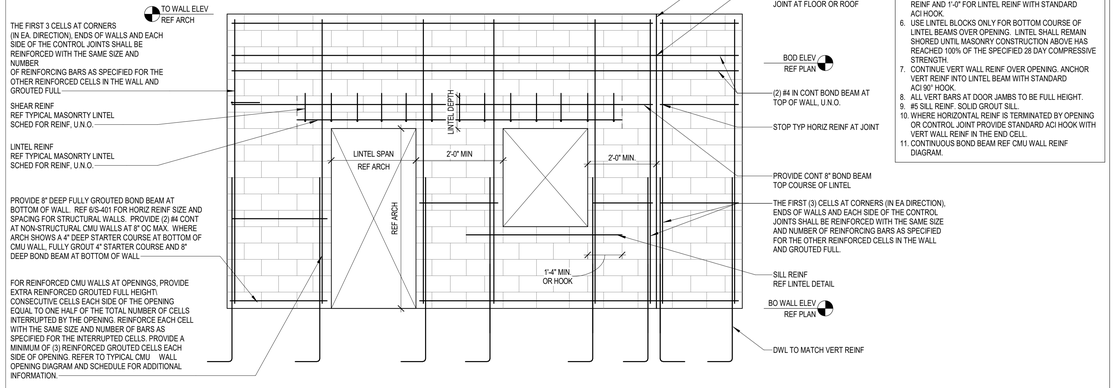
1 EXTERIOR MASONRY WALL REINF. ELEVATION
NO SCALE

	CMU (SIZE)	MEAN ROOF HEIGHT (SIMPLE SPAN, NON-LOAD BEARING)	VERT REINF (IN FULLY GROUTED CELLS)	DOWELS (4'-0" LONG MIN OR AS NEEDED FOR REQ'D LAP/EMBED)
EXTERIOR WALL	8"	16'-0"	#6 @ 24" OC	#6 @ 24" OC
	8"	>16'-0" ..... 28'-0"	#6 @ 16" OC EF	#6 @ 16" OC EF
	12"	16'-0"	#6 @ 24" OC	#6 @ 24" OC
	12"	>16'-0" ..... 28'-0"	#6 @ 16" OC EF	#6 @ 16" OC EF
INTERIOR WALL	6"	15'-0"	#5 @ 48" OC	#5 @ 48" OC
	8"	16'-0"	#6 @ 48" OC	#6 @ 48" OC
	8"	>16'-0" ..... 28'-0"	#6 @ 40" OC	#6 @ 40" OC

NOTES:

1. FOR ANY WALLS THAT DON'T MEET THE REQUIREMENTS OF THE SCHEDULE, GC TO CONTACT ENGINEER OF RECORD FOR PROPER REINFORCEMENT REQUIREMENTS.
2. THE FIRST (3) CELLS AT CORNERS (IN EA DIRECTION), ENDS OF WALLS AND EACH SIDE OF THE CONTROL JOINTS SHALL BE REINFORCED WITH THE SAME SIZE AND NUMBER OF REINFORCING BARS AS SPECIFIED FOR THE OTHER REINFORCED CELLS IN THE WALL AND GROUTED FULL.
3. AT OPENINGS, PROVIDE EXTRA REINFORCED GROUTED FULL HEIGHT CONSECUTIVE CELLS EACH SIDE OF THE OPENING EQUAL TO ONE HALF THE TOTAL NUMBER OF THE CELLS INTERRUPTED BY THE OPENING. REINFORCE EACH CELL WITH THE SAME SIZE AND NUMBER OF BARS AS SPECIFIED FOR THE INTERRUPTED CELLS.PROVIDE A MINIMUM OF (2) REINFORCED GROUTED CELLS EACH SIDE OF OPENING WITH (1) #5, (1) #6 OR (2) # 6, 8" or 12" UNREINFORCED CMU WALL IN EACH GROUTED CELL RESPECTFULLY.
4. REFER TO "TYPICAL CMU WALL OPENING DIAGRAM AND SCHEDULE FOR ADDITIONAL INFORMATION.
5. HOLD VERTICAL REINFORCING IN POSITION AT TOP AND BOTTOM AND AT 8'-0" OC MAXIMUM.
6. REFER TO GENERAL NOTES, SPECIFICATIONS AND SECTIONS/DETAILS FOR INFORMATION NOT SHOWN.
7. VERTICAL BARS MAY BE SPLICED IN 8'-0" (+ or -) LENGTHS. SPLICES LOCATED IN ADJACENT CELLS SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50 PERCENT OF THE BARS ARE SPLICED AT THE SAME LOCATION.
8. PROVIDE VERTICAL CONTROL JOINTS AT 5'-0" TO 8'-0" OC FROM CORNERS AND AT 15'-0" MAX IN BETWEEN. REF MISCELLANEOUS NOTE 3 ON S-400 FOR MORE INFORMATION.
9. IF AN INTERIOR NON-STRUCTURAL CMU WALL IS TALLER THAN THE OPTIONS PROVIDED IN THIS CHART THE GC SHALL INFORM THE EOR TO REVIEW AND PROVIDE ANY ADJUSTMENTS TO CMU WALL THICKNESS OR REINFORCING THAT MAY BENEEDED. FOR BIDDING PURPOSES, FOR ANY WALLS WHICH ARE INTERIOR NON-STRUCTURAL AND ARE TALLER THAN PROVIDED BY THIS CHART THE GC SHALL ASSUME #6 BARS AT 24"OC.

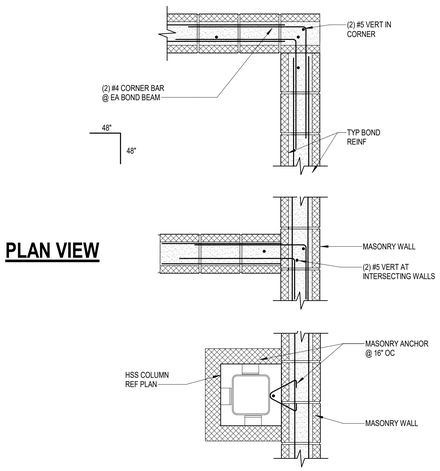
2 TYPICAL NON-STRUCTURAL MASONRY WALL REINF. SCHEDULE
NO SCALE



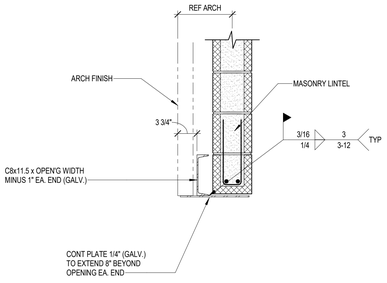
NOTES:

1. REFER TO ARCH AND MECH DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. REFER TO SCHEDULES FOR LINTEL AND JAMB REINFORCING UNLESS DETAILED OTHERWISE.
3. SPLICES IN VERT REINF REF CMU WALL REINF DIAGRAM.
4. CMU WALL STARTS ABOVE FLOOR.
5. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT LINTEL REINF AND 1'-0" FOR LINTEL REINF WITH STANDARD ACI HOOK.
6. USE LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BEAMS OVER OPENING. LINTEL SHALL REMAIN SHORED UNTIL MASONRY CONSTRUCTION ABOVE HAS REACHED 100% OF THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
7. CONTINUE VERT WALL REINF OVER OPENING. ANCHOR VERT REINF INTO LINTEL BEAM WITH STANDARD ACI 90° HOOK.
8. ALL VERT BARS AT DOOR JAMBS TO BE FULL HEIGHT.
9. #5 SILL REINF. SOLID GROUT SILL.
10. WHERE HORIZONTAL REINF IS TERMINATED BY OPENING OR CONTROL JOINT PROVIDE STANDARD ACI HOOK WITH VERT WALL REINF IN THE END CELL.
11. CONTINUOUS BOND BEAM REF CMU WALL REINF DIAGRAM.

3 TYPICAL MASONRY WALL ELEVATION
NO SCALE



4 MASONRY WALL BRACING/REINF. DETAIL
NO SCALE



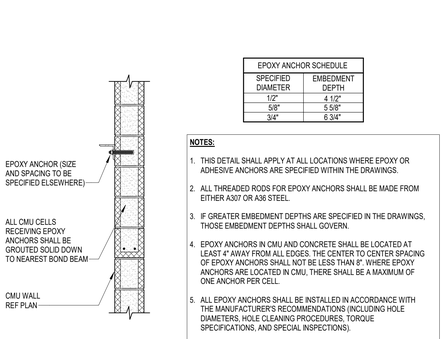
5 TYPICAL HEADER DETAIL AT OVERHEAD DOORS
NO SCALE

	SW TAG	CMU (SIZE)	MEAN ROOF HEIGHT (SIMPLE SPAN)	VERT REINF (IN FULLY GROUTED CELLS)	HORIZ REINF (IN FULLY GROUTED CELLS)	JAMB / JOINT REINF (IN FULLY GROUTED CELLS)
EXTERIOR WALL	SW1	8"	16'-0"	#6 @ 24" OC EF	#5 @ 48" OC	(2) #5 PER CELL IN FIRST 2 CELLS
			>16'-0" ..... 28'-0"	#6 @ 16" OC EF	#5 @ 32" OC	(2) #6 PER CELL IN FIRST 3 CELLS
	SW2	12"	16'-0"	#6 @ 40" OC EF	#5 @ 32" OC	(2) #6 PER CELL IN FIRST 3 CELLS
			>16'-0" ..... 28'-0"	#6 @ 16" OC EF	#5 @ 32" OC EF	(2) #6 PER CELL IN FIRST 3 CELLS
INTERIOR WALL	SW1	8"	16'-0"	#6 @ 32" OC	#5 @ 32" OC	(2) #6 PER CELL IN FIRST 3 CELLS
			>16'-0" ..... 28'-0"	#6 @ 16" OC EF	#5 @ 32" OC	(2) #6 PER CELL IN FIRST 3 CELLS

NOTES:

1. UNLESS NOTED OTHERWISE, REFER TO THE SCHEDULE ABOVE FOR VERTICAL WALL REINFORCING REQUIREMENTS AT ALL STRUCTURAL CMU WALLS.
2. THE STRUCTURAL MASONRY SHOWN ON THE PLANS IS PART OF THE LATERAL LOAD RESISTING SYSTEM OF THE BUILDING. THE STRUCTURAL DETAILS, INCLUDING CLIP ANGLES, DOWELS AND ADDITIONAL SECONDARY FRAMING MEMBERS, ETC., SHOWN ARE CRITICAL TO THE LATERAL PERFORMANCE OF THE BUILDING. THE TEMPORARY STEEL FRAME BRACING PROVIDED DURING CONSTRUCTION SHALL NOT BE REMOVED UNTIL ALL STRUCTURAL LATERAL BRACING SYSTEMS (INCLUDING STRUCTURAL MASONRY WALLS) HAVE BEENINSTALLED AND CONNECTED TO THE STEEL FRAMING.
3. THE FIRST (3) CELLS AT CORNERS (IN EA DIRECTION), ENDS OF WALLS AND EACH SIDE OF THE CONTROL JOINTS SHALL BE REINFORCED WITH THE SAME SIZE AND NUMBER OF REINFORCING BARS AS SPECIFIED FOR THE OTHER REINFORCED CELLS IN THE WALL AND GROUTED FULL.
4. AT OPENINGS, PROVIDE EXTRA REINFORCED GROUTED FULL HEIGHT CONSECUTIVE CELLS EACH SIDE OF THE OPENING EQUAL TO ONE HALF THE TOTAL NUMBER OF THE CELLS INTERRUPTED BY THE OPENING. REINFORCE EACH CELL WITH THE SAME SIZE AND NUMBER OF BARS AS SPECIFIED FOR THE INTERRUPTED CELLS.PROVIDE A MINIMUM OF (2) REINFORCED GROUTED CELLS EACH SIDE OF OPENING. REFER TO "TYPICAL CMU WALL OPENING DIAGRAM AND SCHEDULE FOR ADDITIONAL INFORMATION.
5. HOLD VERTICAL REINFORCING IN POSITION AT TOP AND BOTTOM AND AT 8'-0" OC MAXIMUM.
6. REFER TO GENERAL NOTES, SPECIFICATIONS AND SECTIONS/DETAILS FOR INFORMATION NOT SHOWN.
7. VERTICAL BARS MAY BE SPLICED IN 8'-0" (+ or -) LENGTHS. SPLICES LOCATED IN ADJACENT CELLS SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50 PERCENT OF THE BARS ARE SPLICED AT THE SAME LOCATION.

6 TYPICAL STRUCTURAL MASONRY SHEAR WALL REINF. SCHEDULE
NO SCALE

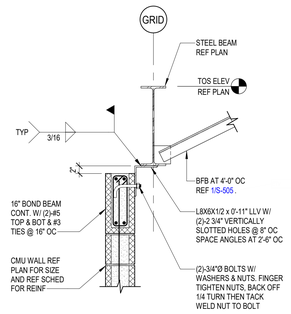


EPOXY ANCHOR SCHEDULE	
SPECIFIED DIAMETER	EMBEDMENT DEPTH
1/2"	4 1/2"
5/8"	5 5/8"
3/4"	6 3/4"

NOTES:

1. THIS DETAIL SHALL APPLY AT ALL LOCATIONS WHERE EPOXY OR ADHESIVE ANCHORS ARE SPECIFIED WITHIN THE DRAWINGS.
2. ALL THREADED RODS FOR EPOXY ANCHORS SHALL BE MADE FROM EITHER A307 OR A36 STEEL.
3. IF GREATER EMBEDMENT DEPTHS ARE SPECIFIED IN THE DRAWINGS, THOSE EMBEDMENT DEPTHS SHALL GOVERN.
4. EPOXY ANCHORS IN CMU AND CONCRETE SHALL BE LOCATED AT LEAST 4" AWAY FROM ALL EDGES. THE CENTER TO CENTER SPACING OF EPOXY ANCHORS SHALL NOT BE LESS THAN 8". WHERE EPOXY ANCHORS ARE LOCATED IN CMU, THERE SHALL BE A MAXIMUM OF ONE ANCHOR PER CELL.
5. ALL EPOXY ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (INCLUDING HOLE DIAMETERS, HOLE CLEANING PROCEDURES, TORQUE SPECIFICATIONS, AND SPECIAL INSPECTIONS).
6. HILTI HY-200 V3 ADHESIVE ANCHORING SYSTEM SHALL BE USED AT ALL ADHESIVE ANCHORS IN CMU.

7 TYPICAL EPOXY ANCHOR DETAIL
NO SCALE

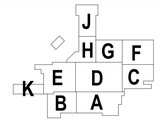


8 TYPICAL WALL BRACING AT STEEL BEAM
3/4" = 1'-0"

PBK
ARCHITECT PBK Architects, Inc. PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608
CIVIL
BROOKS & SPARKS
T 281-578-5998
LANDSCAPE
EDELAND GROUP
T 713-863-1666
STRUCTURAL
KUBALA ENGINEERS
T 713-840-7343
MEP/T
LEAP
T 713-840-3300
ACOUSTIC
SSA
T 512-474-3464
FOOD SERVICE
TRANSOM
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT



DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
REGISTERED
PROFESSIONAL
ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

CMU TYPICAL DETAILS (CONT.)

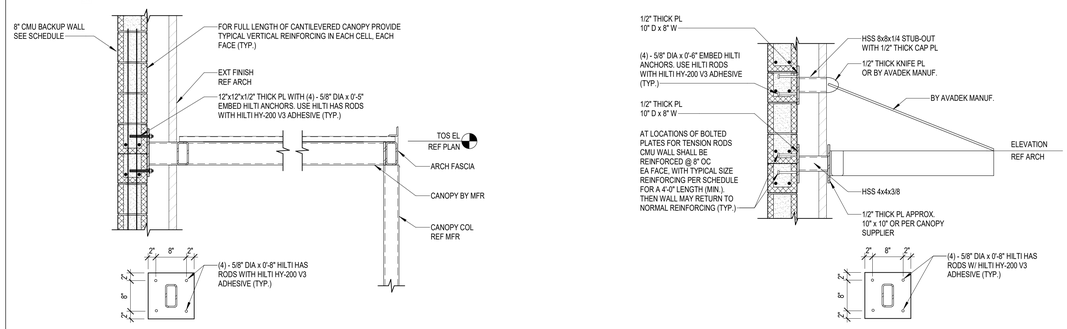
Kubala ENGINEERS
Ph: (800)245-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

S-401

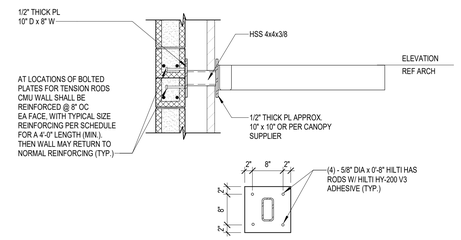
File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/ST23_220023_CFISD_Arnold MS.rvt
CHECKED BY: MS
DRAWN BY: BJ
Plot Stamp: 2/17/2025 9:24:25 AM

FOR BLUEBEAM LABELING:
ISSUE FOR PROPOSAL

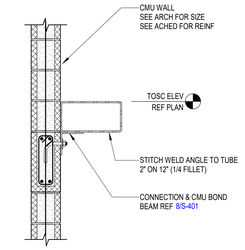
NOTES:
1. EXTEND BOND BEAM CONTINUOUSLY BETWEEN PILASTERS FOR EACH CANOPY LEVEL.
2. GALVANIZE ALL PARTS THAT EXTEND THROUGH ARCH, WALL MATERIALS.
3. CONNECTION APPLIES FOR CANOPY ROOF FRAMING BEAMS AND HANGERS.
4. SEE 7/S-402 FOR TYPICAL LINTEL WITH SHELF ANGLE



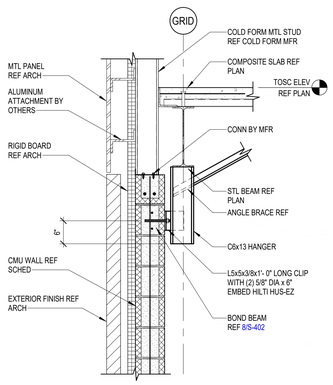
1 AVADEK CANOPY CONNECTION DETAIL
3/4" = 1'-0"

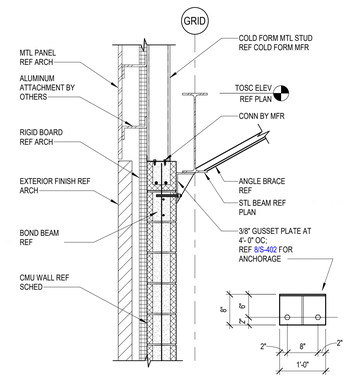


PROVIDE STUB-OUT CONNECTIONS PER 7/S-501 OR 8/S-501 AT EACH END OF TUBE



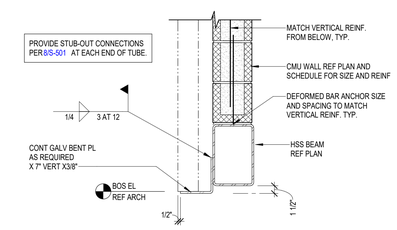
4 CMU WALL SUPPORT DETAIL
NO SCALE





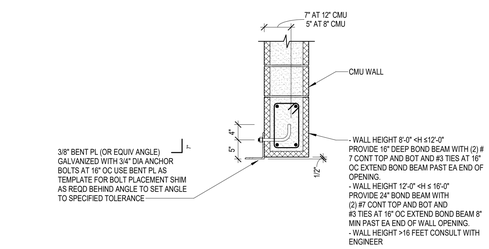
5 TYPICAL CMU TO STUD TRANSITION
NO SCALE

PROVIDE STUB-OUT CONNECTIONS PER 8/S-501 AT EACH END OF TUBE.

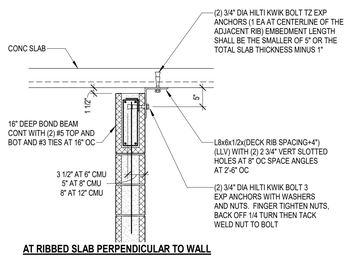


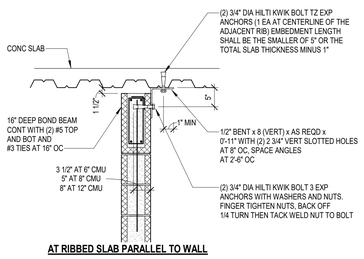
6 TYP LOW TUBE AT BRICK SUPPORT
1" = 1'-0"

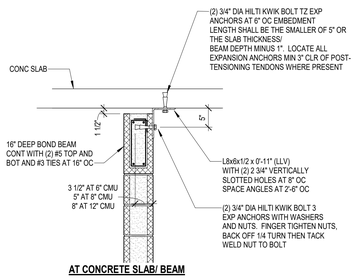
NOTE:
HORIZONTAL LEG OF ANGLE OR BENT PL TO EQUAL DISTANCE FROM FACE OF BRICK TO FACE OF CMU LESS MINUS 1/2"

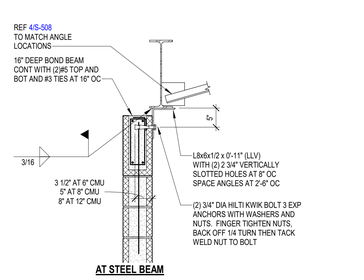


7 TYPICAL LINTEL WITH SHELF ANGLE
3/4" = 1'-0"



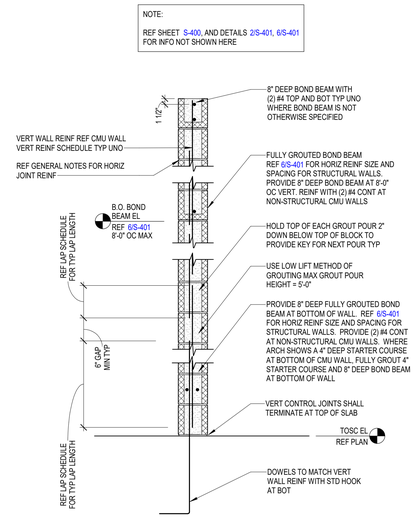






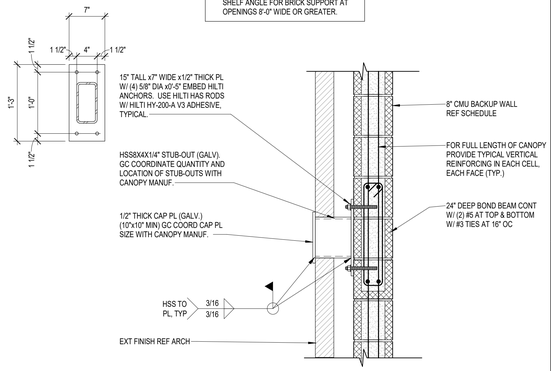
8 TYPICAL BRACING AT TOP OF STRUCTURAL CMU SHEAR WALLS AND NON STRUCTURAL EXTERIOR CMU WALLS
3/4" = 1'-0"

NOTE:
REF SHEET S-400, AND DETAILS 2/S-401, 6/S-401 FOR INFO NOT SHOWN HERE



9 TYPICAL CMU WALL AT ELEVATED LEVELS
NO SCALE

NOTES:
1. EXTEND BOND BEAM CONTINUOUSLY BETWEEN PILASTERS FOR EACH CANOPY LEVEL.
2. GALVANIZE ALL PARTS THAT EXTEND THROUGH ARCH, WALL MATERIALS.
3. CONNECTION APPLIES FOR CANOPY ROOF FRAMING BEAMS AND HANGERS.
4. SEE 7/S-402 FOR TYPICAL LINTEL WITH SHELF ANGLE FOR BRICK SUPPORT AT OPENINGS 8'-0" WIDE OR GREATER.



10 ALUMINUM CANOPY ATTACHMENT AT CMU
1" = 1'-0"

Kubala ENGINEERS
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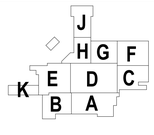
TX Firm: BR 1608
CIVIL
BROOKS & SPARKS
T 281-578-5998
LANDSCAPE
EDDELEND GROUP
T 713-665-1995
STRUCTURAL
KUBALA ENGINEERS
T 713-942-7343
MEP/T
LEAP
T 713-540-3300
ACOUSTIC
SHEN
T 512-474-3464
FOOD SERVICE
JACOBS
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

CMU TYPICAL DETAILS (CONT.)

S-402

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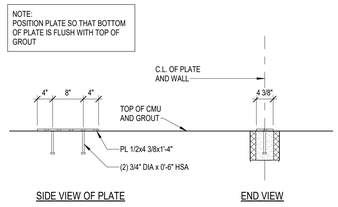
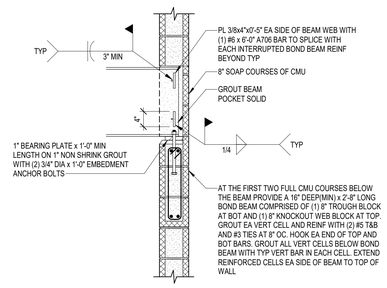
0"
1"

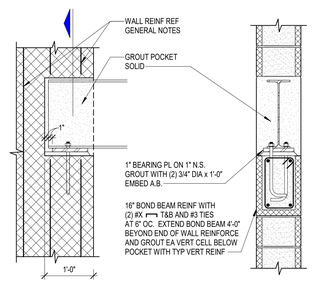
CMU TYPICAL DETAILS (CONT.)
S-403
FOR BLUEBEAM LABELING/OCR:



1 EMBED AT JOIST OR DECK SUPPORT ELEMENT
3/4" = 1'-0"

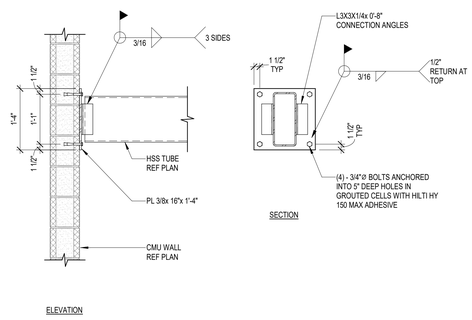


2 STEEL BEAM BEARING ON MASONRY WALL
3/4" = 1'-0"

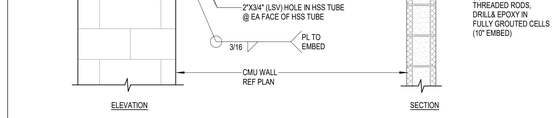


SECTION "A"

3 STEEL BEAM BEARING AT END OF MASONRY WALL
3/4" = 1'-0"

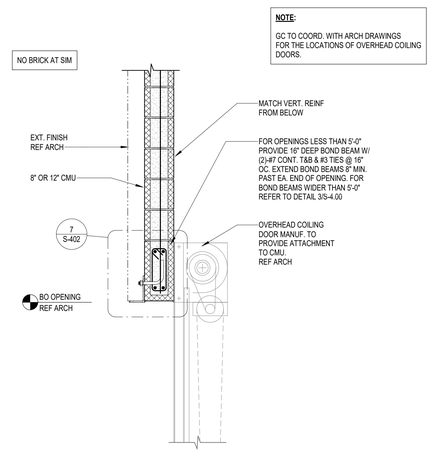


4 HSS TUBE BEARING ON MASONRY WALL
3/4" = 1'-0"

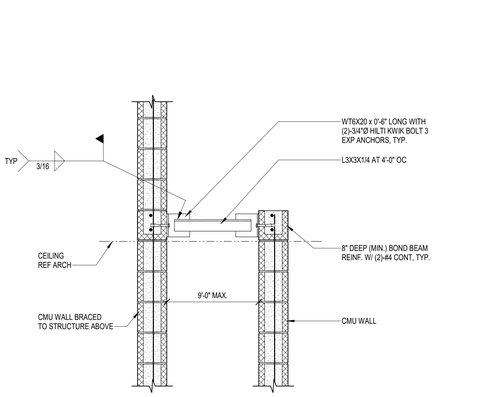


5 HSS TUBE BEARING AT END OF MASONRY WALL
3/4" = 1'-0"

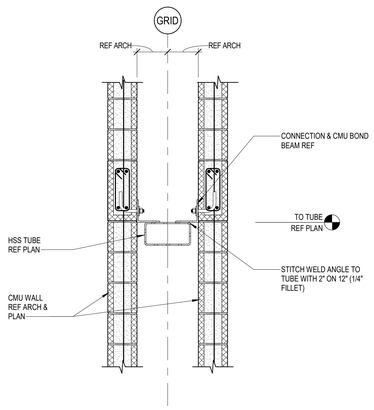
6 TYP LOW TUBE AT CMU SUPPORT
1" = 1'-0"



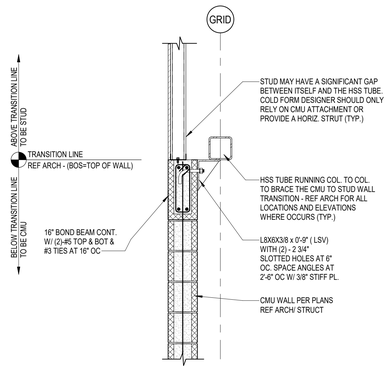
7 OVERHEAD COILING DOOR SECTION AT CMU
3/4" = 1'-0"



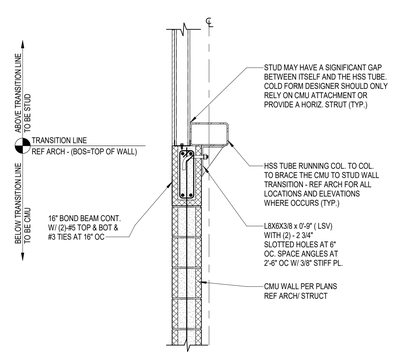
8 BRACE DETAIL AT DOUBLE WYTHE CMU WALLS
3/4" = 1'-0"



9 BRACE DETAIL AT DOUBLE WYTHE CMU WALLS
3/4" = 1'-0"



A - TYP. TUBE AT CMU TO STUD WALL TRANSITION IN PLANE W/ CENTERLINE OF COLUMN



B - TYP. OFFSET TUBE AT CMU TO STUD WALL TRANSITION

10 TYPICAL CMU TO STUD TRANSITION
NO SCALE

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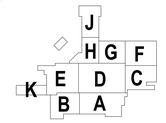

KEY PLAN
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Kubala Engineers
F-23612

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DATE 02/17/2025
PROJECT NUMBER 220023
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CMU TYPICAL DETAILS (CONT.)

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S-403

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S-430

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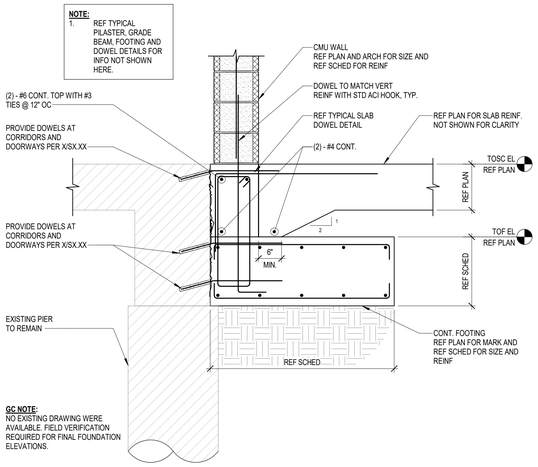
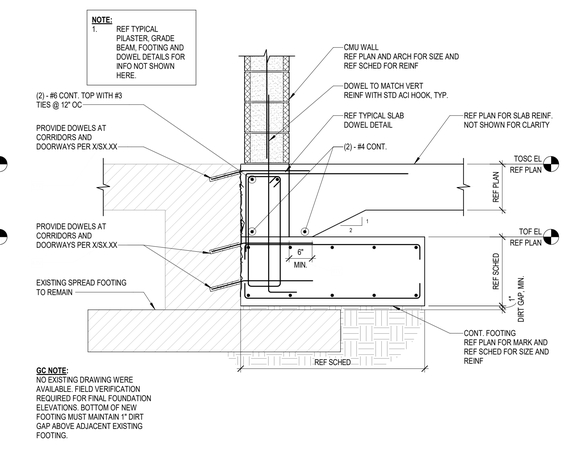
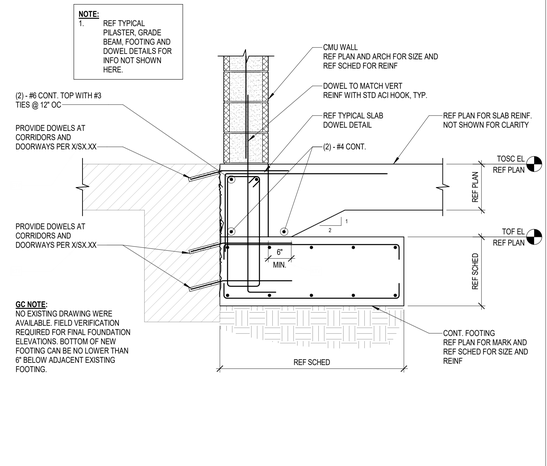
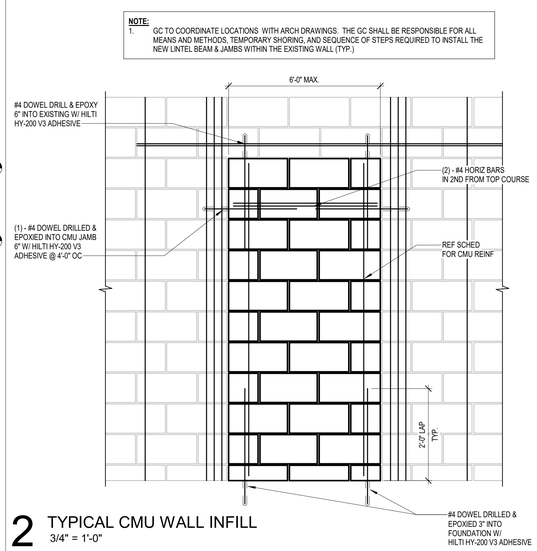


1 TYPICAL CMU WALL ADJACENT TO EXISTING
3/4" = 1'-0"





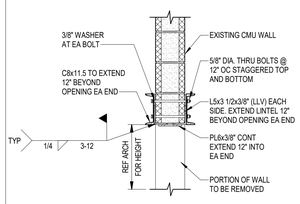


2 TYPICAL CMU WALL INFILL
3/4" = 1'-0"

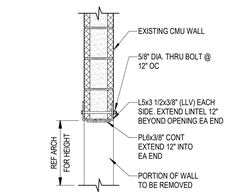
3 NEW LINTEL AT EXIST
1 1/2" = 1'-0"

LINTEL INSTALL PROCEDURE:

1. SAWCUT A 5/8" GROOVE IN ONE FACE OF MASONRY WALL FOR ENTIRE LENGTH OF PROPESED OPENING, PLUS EIGHT INCHES AT EACH END.
2. INSTALL ANGLE (WHICH IS 24 INCHES LONGER THAN PROPOSED OPENING WIDTH) IN GROOVE AS SHOWN.
3. DRILL HOLES THROUGH MASONRY, USING THE ANGLE AS A TEMPLATE.
4. SAWCUT GROOVE IN OPPOSITE FACE OF MASONRY AND SNTALL ANGLE TO ALIGN WITH FIRST ANGLE BOLT HOLES, AND INSTALL BOLTS.
5. BREAK THE SIDE WALL OF BLOCK AT EACH END OF OPENING JUST BELOW THE ANGLE AND POUR GROUT INTO HOLE TOP COMPLETELY FILL THE CORE.
6. BREAK THE SIDE WALL OF BLOCK ABOVE EACH BOLT AND POUR GROUT INTO HOLE TO COMPLETELY FILL THE CORES THAT HOVE THE BOLTS.
7. AFTER A MINIMUM OF 7 DAYS, THE BLOCK BELOW THE LINTELS, IN THE OENINGS, MAY BE REMOVED.
8. AT OPENINGS THAT WILL HAVE NEW MASONRY AT JAMBS, INSTALL MASONRY WITH GROUTED CORED BEFORE BEGINNING STEP #1.



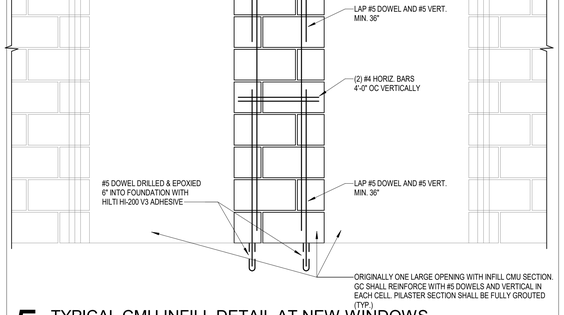
SINGLE WYTHE SPANS > 5'-0" TO 8'-0"



SINGLE WYTHE SPANS TO 5'-0"

NOTE:
1. GC TO COORDINATE LOCATIONS WITH ARCH DRAWINGS.

4 TYPICAL OPENING IN EXISTING CMU
3/4" = 1'-0"



5 TYPICAL CMU INFILL DETAIL AT NEW WINDOWS
3/4" = 1'-0"

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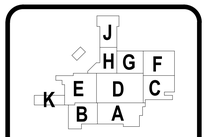

KEY PLAN
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Kubala Engineers
F-23612

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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S-430

EXISTING CMU DETAILS (CONT.)

S-431

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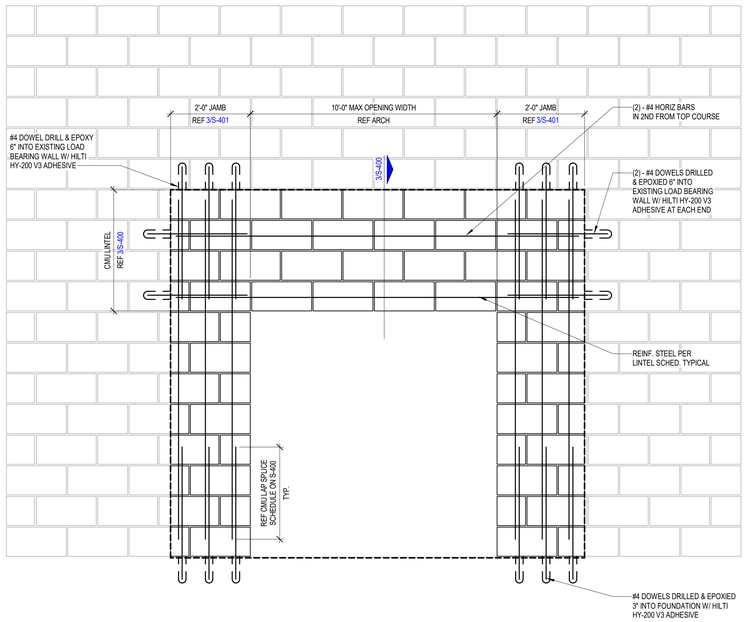
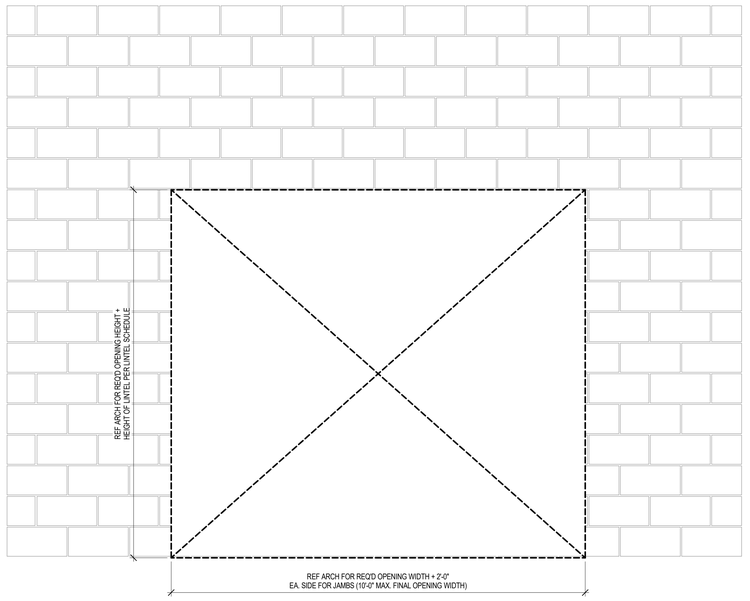


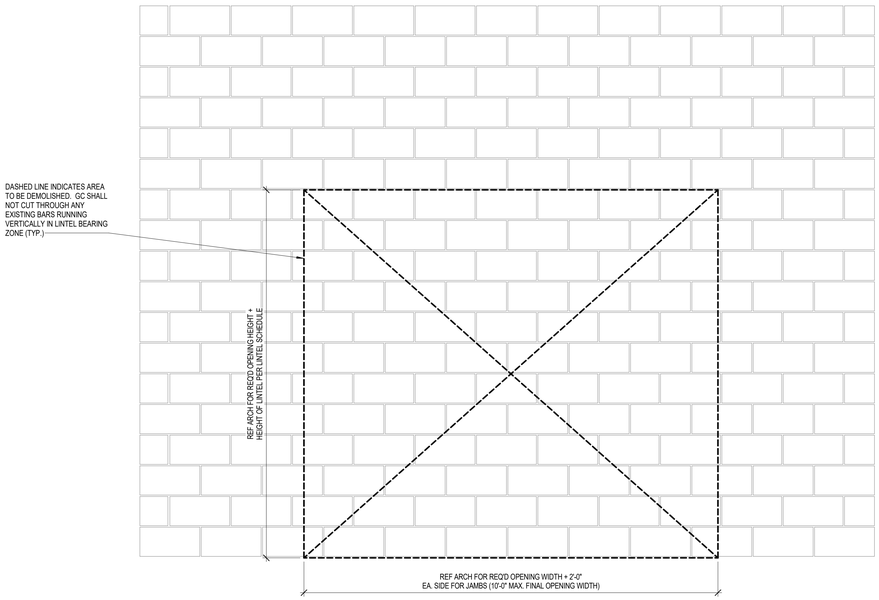
NEW CONSTRUCTION



POST-DEMO VIEW @WALL OPENING

NOTE:

1. GC TO COORDINATE LOCATIONS WITH ARCH DRAWINGS. THE GC SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS, TEMPORARY SHORING, AND SEQUENCE OF STEPS REQUIRED TO INSTALL THE NEW LINTEL BEAM & JAMS WITHIN THE EXISTING WALL (TYP.)
2. WHERE ASSEMBLY IS DOUBLE WYTHE, GC SHALL USE LOOSE LINTENELS PER LOOSE LINTEL SCHEDULE OR SHALL BOLT BRICK ANGLE TO NEW CMU LINTEL PER TYPICAL LINTEL WITH SHELF ANGLE DETAIL.
3. GC TO DEMO IN A MANNER THAT ALLOWS TOOTHING OF NEW BLOCK WITH EXISTING, TYPICAL.



DEMO ELEVATION VIEW @PROPOSED WALL OPENING

1 NEW CONSTRUCTION ELEVATIONS @ PROPOSED WALL OPENING
3/4" = 1'-0"

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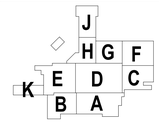

KEY PLAN
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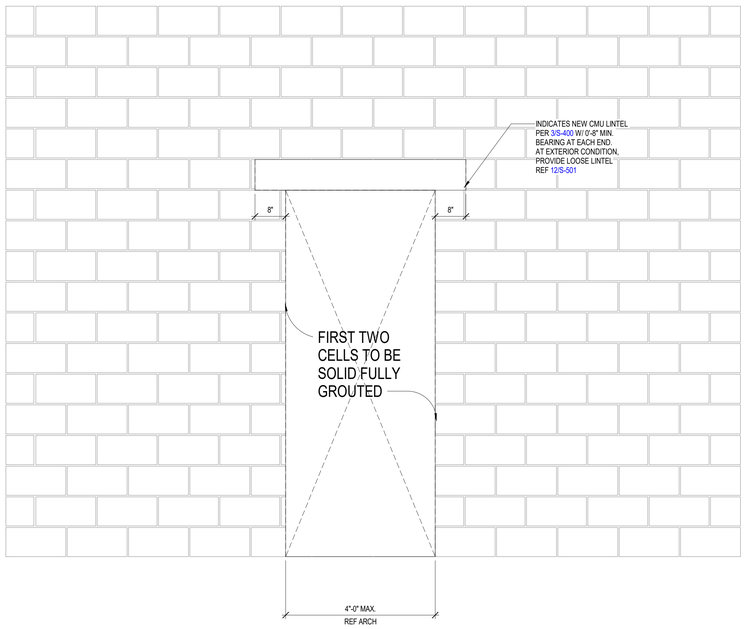
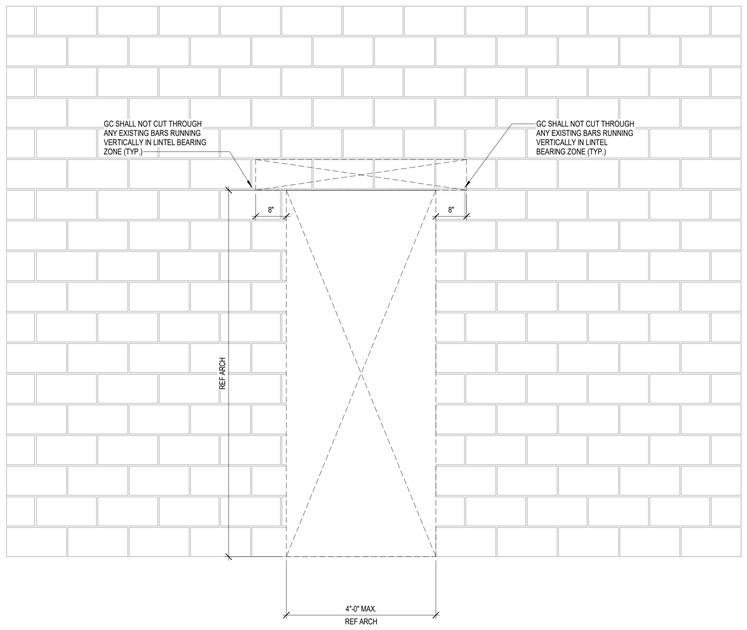
S-431

0"
1"

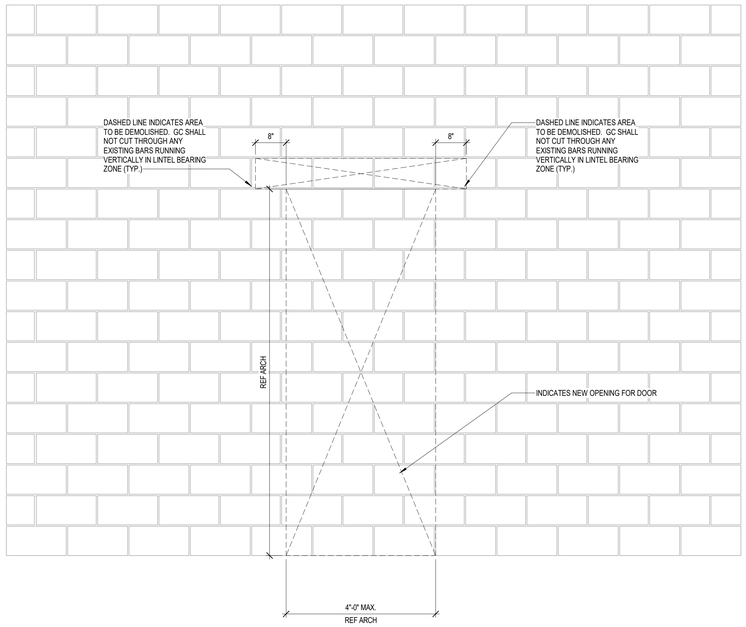
NOTE:
1. GC TO COORDINATE LOCATIONS WITH ARCH DRAWINGS. THE GC SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS, TEMPORARY SHORING, AND SEQUENCE OF STEPS REQUIRED TO INSTALL THE NEW LINTEL BEAM & JAMBS WITHIN THE EXISTING WALL (TYP.)



NEW CONSTRUCTION



POST-DEMO VIEW @WALL OPENING



DEMO ELEVATION VIEW @PROPOSED WALL OPENING

1 TYPICAL DEMO ELEVATION VIEW FOR NEW OPENING AT EXISTING CMU WALLS
3/4" = 1'-0"

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S-432

PROPOSAL
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0"
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STRUCTURAL STEEL:

MATERIAL:

1. STRUCTURAL STEEL IS TO CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS, AND IS TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC SPECIFICATIONS:
   - A. STEEL WIDE FLANGE AND WT SECTIONS.....ASTM A992 OR ASTM A572 - GRADE 50
   - B. MISCELLANEOUS STEEL SECTIONS (ANGLES, CHANNELS AND BARS).....ASTM A36
   - C. HOLLOW STEEL SECTIONS.....ASTM A500, GRADE B OR C, (46 KSI MIN)
   - D. STEEL PIPE SECTIONS.....ASTM A53, GRADE B
   - E. BOLTS AND NUTS (HEAVY-HEX).....ASTM A325
   - F. SHEAR-STUD CONNECTORS.....ASTM A108
   - G. ANCHOR RODS.....ASTM F1554, GRADE 36, GRADE 55 OR GRADE 105
   - H. PLATES.....ASTM A36 OR A572 GRADE 50
   - K. WASHERS.....ASTM F436
2. ALL STEEL SHALL BE DOMESTICALLY (INCLUDING CANADA) MILLED AND FABRICATED. FOREIGN STEEL SHALL NOT BE UTILIZED WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER. THE APPROVAL PROCESS SHALL TAKE PLACE DURING BIDDING TIME. ANY REQUEST TO UTILIZE FOREIGN STEEL MADE AFTER BIDDING SHALL BE REJECTED.
3. STRUCTURAL STEEL, MISCELLANEOUS METAL, AND EMBEDS EXPOSED TO THE EXTERIOR ARE TO BE HOT DIP GALVANIZED AFTER FABRICATION, EXCEPT AS NOTED ON THE DRAWINGS. TUBE SHAPE MEMBERS EXPOSED TO THE EXTERIOR SHALL HAVE CAP PLATES SEAL WELDED, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. STRUCTURAL STEEL IS TO BE PREPARED AND PRIMED ACCORDING TO THE PROJECT SPECIFICATIONS. STRUCTURAL STEEL LOCATED IN CRAWL SPACES OR OTHERWISE INACCESSIBLE AREAS IS TO RECEIVE 2 COATS OF PRIMER.
5. CONTINUITY PLATES (FULL DEPTH COLUMN STIFFENERS ALIGNED WITH BEAM FLANGES, OR FULL DEPTH BEAM STIFFENERS ALIGNED WITH COLUMN FLANGES) SHALL MATCH THE STEEL GRADE OF THE BASE MEMBER.
6. IN ADDITION TO THE STEEL INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL INCLUDE THREE (3) PERCENT OF TOTAL TONNAGE OF FABRICATED STEEL (LABOR FOR ERECTION SHALL BE INCLUDED) DURING THE PROCESS OF WORK AS MAY BE DIRECTED BY THE ARCHITECT/ENGINEER OF RECORD. IF STEEL IS NOT USED DURING THE COURSE OF THE PROJECT, OWNER IS TO RECEIVE A CREDIT FOR THE PORTION NOT USED.

CONNECTIONS:

1. THE DESIGN OF THE STRUCTURAL STEEL CONNECTIONS, WHICH ARE NOT FULLY DETAILED IN THE CONTRACT DOCUMENTS, IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE STEEL FABRICATOR. THE DESIGN OF THE CONNECTIONS SHALL BE PERFORMED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED, WORKING FOR THE FABRICATOR, IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE AISC 303-CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
2. THE FABRICATOR'S LICENSED STRUCTURAL ENGINEER IN RESPONSIBLE CHARGE OF THE CONNECTION DESIGN SHALL REVIEW AND CONFIRM IN WRITING THAT THE SHOP AND ERECTION DRAWINGS PROPERLY INCORPORATE THE CONNECTION DESIGNS PRIOR TO SUBMITTING THE CONNECTION CALCULATIONS AND SHOP DRAWINGS TO THE ENGINEER-OF-RECORD FOR REVIEW.
3. THE FABRICATOR SHALL PROVIDE A MEANS BY WHICH THE CONNECTION INFORMATION PREPARED BY THE FABRICATOR'S LICENSED PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE OF THE CONNECTION DESIGN IS REFERENCED TO THE RELATED CONNECTIONS ON THE SHOP AND ERECTION DRAWINGS FOR THE PURPOSE OF REVIEW.
4. THE FABRICATOR SHALL PROVIDE BEAM SHEAR CONNECTIONS USING THE VERTICAL REACTIONS PROVIDED ON THE PLANS, WHICH ARE PROVIDED AS KIPS (SERVICE-LOAD LEVEL). ALLOWABLE STRESS DESIGN (ASD) SHALL BE USED IN THE SELECTION, COMPLETION AND DESIGN OF CONNECTION DETAILS. **IN INSTANCES WHERE REACTIONS ARE NOT SPECIFIED ON THE PLANS, THE CONNECTION DESIGNER SHALL PROVIDE CONNECTIONS BASED ON THE WORST-CASE SHEAR REACTION (HIGHEST SHEAR CAPACITY) FROM THE OPTIONS LISTED BELOW:**
   - **4.1 OPTION 1 (BASED ON BEAMS' ALLOWABLE UNIFORM LOAD):** SHEAR CONNECTION CAPACITIES FOR BEAMS SHALL BE ONE-HALF (50 PERCENT) THE TOTAL ALLOWABLE UNIFORM LOAD GIVEN IN TABLE 3-6 THROUGH 3-9 OF THE AISC MANUAL OF STEEL CONSTRUCTION. CONNECTIONS FOR COMPOSITE BEAMS AND CAMBERED ROOF BEAMS SHALL HAVE THE STANDARD AISC CAPACITY INCREASED BY 35 PERCENT.
   - **4.2 OPTION 2 (MINIMUM SERVICE-LOAD / ASD) SHEAR REACTIONS:** ALL BEAM CONNECTIONS SHALL HAVE A MINIMUM SERVICE LOAD (ASD) SHEAR CAPACITY GIVEN IN TABLE 4.2. REFER TO TYPICAL DOUBLE-ANGLE CONNECTION SCHEDULE (1/S-503) AND TYPICAL SHEAR TAB BOLTED CONNECTION SCHEDULE (2/S-503) FOR SHEAR CONNECTIONS THAT MEET THE MINIMUM SERVICE-LOAD (ASD) SHEAR CONNECTION CAPACITIES LISTED IN TABLE 4.2. ALTERNATE CONNECTION DETAILS ARE ACCEPTABLE PROVIDED SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS ARE SUBMITTED, AND ALL CONNECTION DESIGNS ARE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

TABLE 4.2 - MINIMUM SERVICE-LOAD (ASD) SHEAR CONNECTION CAPACITIES

BEAM SIZE	MINIMUM REACTION (KIPS) (SERVICE-LOAD LEVEL)	BEAM SIZE	MINIMUM REACTION (KIPS) (SERVICE-LOAD LEVEL)
W8	9	W24	83
W10	14	W27	113
W12	23	W30	119
W14	28	W33	142
W16	40	W36	160
W18	48	W40	193
W21	64	W44	195

5. SHEAR CONNECTIONS MAY BE SELECTED FROM THE TABLES IN PART 10 OF THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION IF THE CONNECTION MEETS THE SHEAR CAPACITY REQUIREMENTS OF CONNECTION NOTE 4 ABOVE. TABLE 10-1 SHALL BE USED FOR BOLTED DOUBLE ANGLE CONNECTIONS, TABLE 10-2 SHALL BE USED FOR WELDED/BOLTED DOUBLE ANGLE CONNECTIONS, AND TABLE 10-3 SHALL BE USED FOR WELDED DOUBLE ANGLE CONNECTIONS.
6. DOUBLE CONNECTIONS AT COLUMNS AND/OR AT BEAM WEBS OVER A COLUMN. WHEN TWO STRUCTURAL MEMBERS ON OPPOSITE SIDES OF A COLUMN WEB, OR A BEAM WEB OVER A COLUMN, ARE CONNECTED SHARING COMMON CONNECTION HOLES, AT LEAST ONE BOLT WITH ITS WRENCH-TIGHT NUT SHALL REMAIN CONNECTED TO THE FIRST MEMBER UNLESS A SHOP-ATTACHED OR FIELD-ATTACHED SEAT OR EQUIVALENT CONNECTION DEVICE IS SUPPLIED WITH THE MEMBER TO SECURE THE FIRST MEMBER AND PREVENT THE COLUMN FROM BEING DISPLACED.
7. THE DRAWINGS INDICATE VARIOUS NON-PRIMARY STRUCTURAL FRAME ELEMENTS SUCH AS SHELF ANGLES, LINTELS, SUPPORT MEMBERS FOR CURTAIN WALLS OR MASONRY, AND EDGE ANGLES FOR OPENINGS AND PERIMETER CONDITIONS WHICH ARE INTENDED TO SUPPORT OR BE COORDINATED WITH MATERIALS FURNISHED BY OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR PROPER FIT-UP OF THE VARIOUS COMPONENTS OF THE FRAMING AND FOR MEETING THE TOLERANCES REQUIRED BY OTHER TRADES, WHICH MAY BE MORE STRINGENT THAN A.I.S.C. TOLERANCES FOR STRUCTURAL STEEL. WHERE THESE NON-PRIMARY STRUCTURAL FRAME ELEMENTS ARE INDICATED TO BE WELDED (INDICATED EITHER FIELD OR SHOP WELDED) IN THE DRAWINGS, THE CONTRACTOR SHALL HAVE THE FINAL RESPONSIBILITY FOR DETERMINING IF THE WELDS SHOULD BE MADE IN THE SHOP OR FIELD IN ORDER TO ACHIEVE PROPER FIT-UP OF THE VARIOUS COMPONENTS OF THE FRAMING AND FOR MEETING THE TOLERANCES REQUIRED BY OTHER TRADES.
8. SPLICING OF STRUCTURAL STEEL MEMBERS MUST BE APPROVED BY THE STRUCTURAL ENGINEER, IF NOT ALREADY SHOWN ON THE DRAWINGS.
9. SHOP BOLTED CONNECTIONS ARE PERMISSIBLE IF SUFFICIENT BOLT CLEARANCE IS AVAILABLE FOR TIGHTENING OF HIGH STRENGTH BOLTS. CLEARANCES SHALL BE IN ACCORDANCE WITH TABLE 7-16 AND 7-17 OF THE LATEST EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. ALL STEEL MEMBERS AND ASSEMBLIES SHALL BE SHOP FABRICATED TO THE GREATEST EXTENT POSSIBLE. TRUSSES SHALL BE FULLY SHOP ASSEMBLED. FIELD SPLICES FOR SHIPPING PURPOSES SHALL ONLY BE AS APPROVED BY THE ENGINEER OF RECORD. THE STEEL FABRICATOR AND THE STEEL ERECTOR SHALL COORDINATE THE SHOP FABRICATION, SHIPPING AND ERECTION OF ALL STRUCTURAL MEMBERS AND ASSEMBLIES.
10. ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS MUST CONFORM TO ASTM A325-N HIGH-STRENGTH BOLTS UNLESS NOTED OTHERWISE. MINIMUM SIZE SHALL BE 3/4 INCH DIAMETER. STRUCTURAL STEEL CONNECTIONS SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS SPECIFIED ON S-503. BOLTS SHALL BE DIRECT TENSION INDICATING BOLTS CONFORMING TO ASTM F1852 WITH HARDENED WASHERS UNDER THE NUT AND SACRIFICIAL SPLINES. HEX NUTS MUST CONFORM TO ASTM A563 AND WASHERS MUST CONFORM TO ASTM F436.
11. ALL MOMENT CONNECTIONS SHALL BE FULL WELDED CONNECTIONS DESIGNED TO DEVELOP THE FULL CROSS-SECTION OF THE MEMBER. STIFFENER PLATES, WHERE SHOWN, ARE MANDATORY AND MAY NOT BE OMITTED. MOMENT CONNECTIONS ARE INDICATED ON THE PLANS BY A TRIANGULAR BULB ON THE END OFTHE BEAM, OR BY THE LETTERS "MC". CANTILEVER BEAMS MOMENT CONNECTED TO THE FRAME SHALL BE THE SAME SIZE AS THE BACK-UP SPAN IF NO SIZE IS GIVEN.
12. WHERE HORIZONTAL FORCES ARE INDICATED ON PLAN AS "H= _K", THE LICENSED PROFESSIONAL ENGINEER WORKING FOR THE FABRICATOR SHALL SIZE THE CONNECTION TO TRANSFER THE HORIZONTAL FORCE IN ADDITION TO THE REQUIRED VERTICAL REACTION. SLOTTED HOLES ARE NOT PERMITTED AT CONNECTIONS WITH HORIZONTAL FORCES.
13. EMBED PLATES TO BE INSTALLED IN THE FOUNDATION AND/OR SLAB SHALL BE SUBMITTED FOR REVIEW WITH THE ANCHOR BOLTS.
14. BOLTS SHALL BE TIGHTENED BY THE AISC "SNUG TIGHT" METHOD UNLESS NOTED OTHERWISE.
15. CANTILEVER BEAMS MOMENT CONNECTED TO THE FRAME SHALL BE THE SAME SIZE AS THE BACK-UP SPAN IF NO SIZE IS GIVEN.
16. SHELF ANGLES SHOWN AS CONTINUOUS IN THE SECTIONS SHALL BE INSTALLED IN 20'-0" MAXIMUM LENGTHS, LEAVING A 1/4" GAP BETWEEN ENDS AND AT CORNERS. LOCATE GAPS TO MATCH MASONRY CONTROL JOINTS. AT BUILDING EXPANSION JOINT, LEAVE A GAP TO MATCH EXPANSION JOINT WIDTH.
17. CONNECT MISCELLANEOUS STEEL MEMBERS USING FILLET WELDS SUFFICIENT TO DEVELOP THE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS SHOWN OTHERWISE.
18. STEEL MEMBERS SHOWN TO BE CURVED SHALL BE ROLLED IN A MANNER THAT WILL NOT CAUSE DISTORTION OR BUCKLING. SHOULD ALTERATIONS TO THE MEMBER SIZE, SUCH AS A THICKER FLANGE OR WEB, BE REQUIRED TO ENSURE THIS OUTCOME, THE ADDITIONAL STEEL SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE CONTRACT.
19. WHERE STIFFENER PLATES ARE INDICATED ON DRAWINGS, THEY ARE REQUIRED AND SHALL BE PROVIDED AS INDICATED.
20. PROVIDE WELDED IN SPACER PLATES AT THREE FEET ON CENTER AT ALL BACK-TO-BACK CHANNELS OR DOUBLE ANGLES.
21. BEAMS WITH LATERAL BRACING ATTACHED AND WEB CONNECTIONS OF MOMENT-CONNECTED BEAMS SHALL UTILIZE SLIP CRITICAL BOLTS OR WELDED CONNECTIONS.
22. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS), IF NOTED ON STRUCTURAL PLANS OR BY THE ARCHITECT, SHALL CONFORM TO AISC 303 SECTION 10.
23. INSTALL LEDGER ANGLES FOR FASCIA BRICK SUPPORT SUCH THAT THE SWEEP OR CAMBER DOES NOT EXCEED 1/8 INCH DEVIATION FROM STRAIGHT LINE.
24. TEMPORARY SUPPORTS, BRACES, FALSE WORK, SHORES, CRIBBING OR OTHER SUPPORTS REQUIRED DURING ERECTION TO KEEP STRUCTURAL STEEL SECURE, SUPPORTED, PLUMB, AND IN ALIGNMENT SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR AND STEEL ERECTOR. THESE TEMPORARY SUPPORTS SHALL SECURE THE STRUCTURAL STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST ALL LATERAL AND VERTICAL LOADS, INCLUDING BUT NOT LIMITED TO THOSE RESULTING FROM WIND, SEISMIC, ERECTION OPERATIONS AND THE WEIGHT OF THE STRUCTURE AND SUPPORTED ELEMENTS. ALL TEMPORARY SUPPORTS SHALL REMAIN IN PLACE DURING CONSTRUCTION UNTIL THE PERMANENT STRUCTURAL STEEL, CONNECTIONS, FLOOR DECKS AND BRACING ELEMENTS INDICATED IN THE CONTRACT DOCUMENTS ARE COMPLETE.

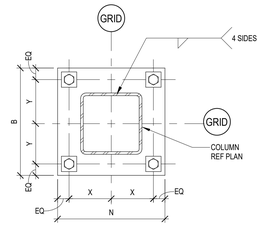
WELDING:

1. ALL WELDING MUST CONFORM TO THE AMERICAN WELDING SOCIETY ANSI/AWS D1.1 STANDARDS, AND SHALL CONFORM TO THE STANDARDS OF THE LATEST EDITION OF THE MANUAL OF STEEL CONSTRUCTION. ALL WELDERS MUST BE CERTIFIED IN ACCORDANCE WITH AWS D1.1. WELDING OF REINFORCING BARS SHALL COMPLY TO THE AMERICAN WELDING SOCIETY AWS D1.4. SHORT CIRCUIT TRANSFER FOR THE GAS METAL ARC WELDING PROCESS IS NOT PERMITTED.
2. ELECTRODES FOR ALL FIELD AND SHOP WELDING SHALL BE CLASS E70XX. ELECTRODES FOR MOMENT CONNECTIONS SHALL BE CLASS E7018 WITH A CHARPY TOUGHNESS OF AT LEAST 20 FT-LBS AT -20 DEGREES FAHRENHEIT.
3. ALL MISCELLANEOUS WELDS SHALL BE MINIMUM SIZE FILLET ALL AROUND AND MUST BE IN ACCORDANCE WITH AISC. WELDING OF CONTINUOUS MEMBERS SHALL BE A MINIMUM OF 2 INCHES OF 3/16 INCH FILLET STITCH WELDS AT 12 INCHES O.C., STAGGERED EACH SIDE, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. COLUMN BASE PLATES, STIFFENER PLATES AND CAP PLATES SHALL BE WELDED ALL AROUND.
4. HEADED STUDS SHALL BE WELDED TO EMBED PLATES BY A METHOD IN WHICH THE CONNECTION CAN DEVELOP THE FULL TENSION AND SHEAR CAPACITY OF THE STUD.

BASE PLATE NOTES:

1. ALL ANCHOR RODS SHALL BE F1554 GRADE 55 UNLESS NOTED OTHERWISE.
2. SIZE WELDS PER AISC MINIMUM FILLET REQUIREMENTS, 5/16" MINIMUM.
3. UNLESS NOTED OTHERWISE, ALL ANCHOR ROD NUTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC AFTER THE CONCRETE IS AT LEAST 14 DAYS OLD.
4. USE OVERSIZED HOLES FOR ANCHOR RODS ACCORDING TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION. PLATE WASHERS WITH STANDARD HOLES SHALL BE INSTALLED OVER OVERSIZED HOLES.
5. CONTRACTOR SHALL PROVIDE TEMPLATE FOR ANCHOR ROD INSTALLATION.
6. NON-SHRINK GROUT FOR BASE PLATES AND BEARING PLATES:

   ALL GROUT USED UNDER STEEL COLUMN BASE PLATES OR BEARING PLATES SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT COMPOUND CONFORMING TO ASTM C1090 AND THE CORPS OF ENGINEERS SPECIFICATION CRD-C-621. THE GROUT SHALL HAVE A MINIMUM STRENGTH OF 6,000 PSI WHEN BEARING ON 3,000 PSI CONCRETE OR LESS, A STRENGTH OF 8,000 PSI WHEN BEARING ON CONCRETE BETWEEN 3,000 AND 4,000 PSI, AND, UNLESS NOTED OTHERWISE ON THE DRAWINGS, A STRENGTH OF 8,000 PSI WHEN BEARING ON CONCRETE GREATER THAN 4,000 PSI. 100 PERCENT OF VOID UNDER ALL BASE PLATES IS TO BE GROUTED, ALL BASE PLATES WITH A DIMENSION GREATER THAN 24" SHALL HAVE TWO 1" DIAMETER GROUT HOLES. IF THE SPACE UNDER A COLUMN BASE PLATE IS LESS THAN 1/4", A PRESSURE INJECTION SYSTEM SHALL BE USED.



TYPE 1 HSS BASE PLATE
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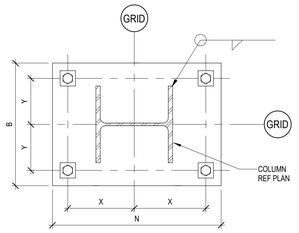

TYPE 2 WIDE FLANGE BASE PLATE
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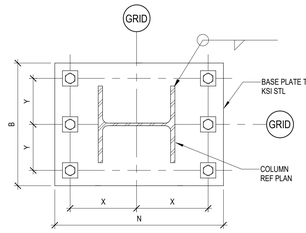

TYPE 3 WIDE FLANGE MOMENT BASE PLATE
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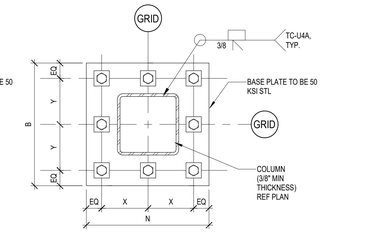

TYPE 4 MOMENT BASE PLATE
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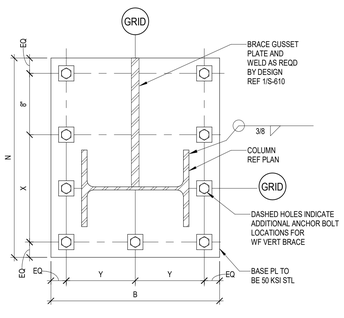

TYPE 5 BRACE BASE PLATE
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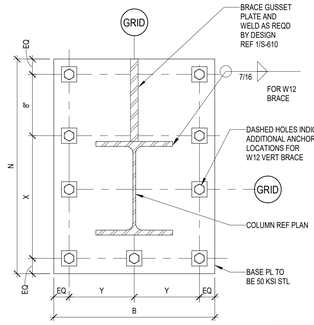

TYPE 6 BRACE BASE PLATE
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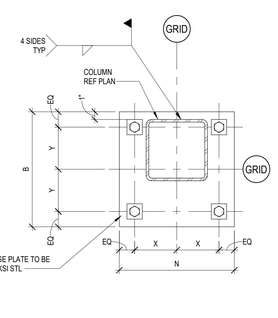
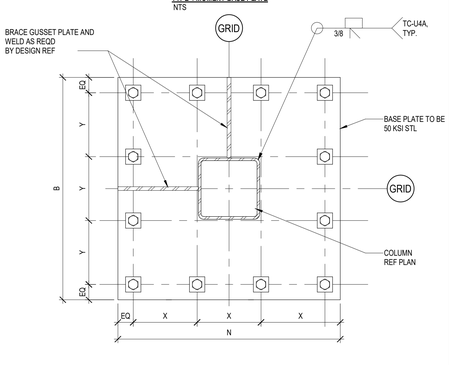


TYPE 7 HSS BASE PLATE
NTS



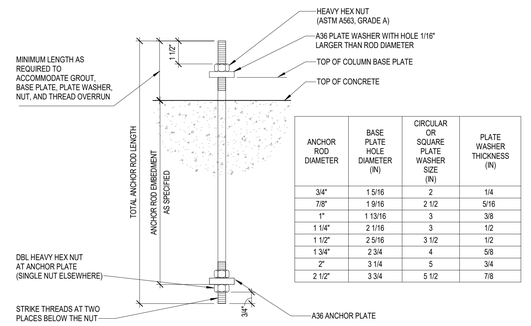
TYPE 8 VERTICAL BRACE BASE PLATE
NTS

BASE PLATE SCHEDULE

MARK	COLUMN SIZE	BASE PLATE TYPE	BASE PLATE DIMENSIONS					ANCHOR RODS				NOTES
			N LENGTH (IN)	B WIDTH (IN)	T THICKNESS (IN)	X (IN)	Y (IN)	NUMBER	DIA (IN)	EMBED LENGTH (IN)	ANCHOR ROD GRADE	
-	HSS4X4 STAIR COLUMN	1	10	10	1	3 1/2	3 1/2	4	3/4	18	36	-
-	HSS5X5	1	11	11	1	4	4	4	3/4	18	36	-
-	HSS6X6	1	12	12	1	4 1/2	4 1/2	4	3/4	18	36	-
-	HSS8X8	1	16	16	1 1/4	6	6	4	1	18	36	-
-	HSS10X10	1	19	19	1 1/2	7	7	4	1 1/4	18	36	-
-	HSS12X12	1	21	21	1 1/2	8	8	4	1 1/2	18	36	-
-	HSS14X14	1	24	24	1 1/2	9 1/2	9 1/2	4	1 1/2	18	36	-
-	HSS8X8 BRACE	5 OR 6	28	20	2	15	7 1/2	7	1 1/2	18	105	7/16 MIN COLUMN WELD TO BASE
-	HSS10X10 BRACE	5 OR 6	30	22	2	16	8	7	1 1/2	18	105	-
-	HSS12X12 BRACE	5 OR 6	32	24	2	18	9	7	1 1/2	18	105	MIN 4'-0" x 4'-6" CONCRETE PEDESTAL - REF S-600
-	HSS8X8 BRACE 2-DIRECTIONS	8	26	26	2	7	7	12	1 1/2	18	105	
-	HSS10X10 BRACE 2-DIRECTIONS	8	29	29	2	8	8	12	1 1/2	18	105	
	HSS8X8 FIXED BP	4	19	19	1 1/2	7	7	8	1 3/4	18	105	
-	HSS10X10 FIXED BP	4	21	21	1 3/4	8	8	8	1 1/2	24	105	-
-	HSS12X12 FIXED BP	4	23	23	1 3/4	9	9	8	1 3/4	24	105	MIN 3'-0" x 3'-0" CONCRETE PEDESTAL
-	W10 FIXED BP	3	20	19	1 3/4	9	7 1/2	8	1 1/2	18	105	

NOTES:

1. USE OVERSIZED HOLES FOR ANCHOR RODS ACCORDING TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
2. PLATE WASHERS WITH STANDARD HOLES SHALL BE INSTALLED OVER OVERSIZED HOLES.
3. CONTRACTOR SHALL PROVIDE TEMPLATE FOR ANCHOR ROD INSTALLATION.
4. MINIMUM GROUT THICKNESS PER GROUT THICKNESS SCHEDULE.
5. SIZE WELDS PER AISC MINIMUM FILLET REQUIREMENTS, 5/16" MINIMUM.



ANCHOR ROD DIAMETER	BASE PLATE HOLE DIAMETER (IN)	CIRCULAR OR SQUARE PLATE WASHER SIZE (IN)	PLATE WASHER THICKNESS (IN)
3/4"	1 5/16	2	1/4
7/8"	1 9/16	2 1/2	5/16
1"	1 13/16	3	3/8
1 1/4"	2 1/16	3	1/2
1 1/2"	2 5/16	3 1/2	1/2
1 3/4"	2 3/4	4	5/8
2"	3 1/4	5	3/4
2 1/2"	3 3/4	5 1/2	7/8

GROUT THICKNESS SCHEDULE	
ANCHOR BOLT SIZE (DIA.)	MINIMUM GROUT THICKNESS
LESS THAN OR EQUAL TO 1 1/4"Ø	2"
GREATER THAN 1 1/4"Ø	3"

NOTES:

1. REFER TO SPECIFICATIONS AND GENERAL NOTES FOR GROUT REQUIREMENTS.
2. GROUT MAY BE BEVELED OR FORMED BUT SHALL EXTEND A MIN OF 1 1/2" BEYOND FACE OF BASE PLATE.

1 COLUMN BASE PLATE AND ANCHOR ROD SCHEDULE
NO SCALE

Kubala ENGINEERS
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CSD
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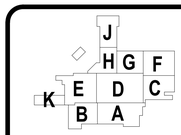
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

GENERAL STEEL AND BASE PLATE NOTES AND TYPICAL DETAILS

S-500

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/ST23_220023_CFISD_Arnold MS.rvt
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0"
1"

GENERAL INFO.:

1. FOR ANY STEEL BEAM OR COLUMN THAT DOES NOT MEET THE MINIMUM SIZE REQUIRED,DUE TO THE U.L. DESIGN NUMBER (SELECTED BY THE ARCHITECT), THE THICKNESS OF THE SPRAYED FIRE PROTECTION MATERIAL MUST BE INCREASED AS REQUIRED BY THE FORMULA SHOWN IN THE U.L. FIRE RESISTANCE DIRECTORY (LATEST EDITION).

2. AT BRICK SUPPORT ANGLES, DURING CONSTRUCTION, THE BRICK SHALL BE INSTALLED WITHOUT SHORING THE SUPPORT ANGLE. SHORING THE BRICK DURING CONSTRUCTION CAN CAUSE HORIZONTAL BED JOINT CRACKING WHEN THE SHORES ARE REMOVED.

3. HEADED ANCHORS/STUDS SHALL BE MANUFACTURED FROM COLD DRAWN MATERIALS PER ASTM A108. ANCHORS/STUDS SHALL BE OF GRADE 50 WITH SOLID FLUX FILLED HEADS. ANCHORS/STUDS STUDS SHALL BE AUTOMATICALLY END WELDED WITH IN ACCORDANCE WITH AWS D1.1. ANCHORS/STUDS FOR EMBEDDED PLATES AND OTHER ANCHORS SHALL BE SHOP WELDED. STUDS FOR COMPOSITE BEAMS MUST BE FIELD WELDED.

4. AT BUILDINGS, WHERE SPLICED COLUMNS ARE REQUIRED, THE STEEL COLUMNS MUST BE SPLICED AT A MINIMUM OF 4'-0" ABOVE THE FINISH FLOOR. COLUMNS SHALL BE SPLICED AT EVERY OTHER LEVEL. AT WIDE FLANGE COLUMNS, PROVIDE HOLES IN THE WEBS FOR 3/4" DIAMETER SAFETY CABLES. AT TUBE OR PIPE COLUMNS, PROVIDE PLATES WITH HOLES WELDED TO THE COLUMNS FOR SAFETY CABLE CONNECTIONS. A L3x3x1/4 DECK SUPPORT ANGLE SHALL BE PROVIDED ON ALL SIDES OF THE COLUMN.

5. ALL STRUCTURAL STEEL OUTSIDE OF THE BUILDING ENVELOPE SHALL BE HOT DIPPED GALVANIZED. WITH A MINIMUM ZINC COATING CLASS OF G90, MEETING THE REQUIREMENTS OF ASTM 123, AND SHALL BE APPLIED AFTER FABRICATION. ALL FIELD WELDS SHALL REQUIRED SHALL BE GROUND SMOOTH AND TOUCHED UP WITH A ZINC RICH PAINT.

6. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL COMPLY TO OSHA 29 CFR 1926 SUBPART R, SAFETY STANDARDS FOR STEEL ERECTION.

7. THE DRAWINGS AND SPECIFICATIONS MAY NOT INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE PERFORMANCE AND COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF ALL MISCELLANEOUS METAL ITEMS INDICATED, DESCRIBED, OR IMPLIED ON THE STRUCTURAL AND/OR THE ARCHITECTURAL DRAWINGS. MISCELLANEOUS STEEL ITEMS, WITHIN AN ASSEMBLY AND NOT ATTACHED TO THE STRUCTURE, ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS, WHETHER OR NOT THEY ARE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. SUCH ASSEMBLIES INCLUDE, BUT ARE NOT LIMITED TO, EXTERIOR AND INTERIOR WALL ASSEMBLIES, CEILING ASSEMBLIES, PARTITION ASSEMBLIES, SHELF AND CABINET ASSEMBLIES AND ALL OTHER SIMILAR ASSEMBLIES. ANY MISCELLANEOUS METAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE A MINIMUM OF L4x4x1/2", C7x9.8, 3/8" PLATE OR HSS4x4x3/8" UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER.

8. THE GENERAL CONTRACTOR AND THE ELEVATOR SUPPLIER SHALL REVIEW THE STRUCTURAL DRAWINGS FOR FLOOR TO FLOOR AND FLOOR TO ROOF HEIGHTS FOR THE REQUIRED DISTANCE BETWEEN BRACE POINTS, FOR THEIR RAIL DESIGN. PROVIDE A W18x50 MINIMUM HOIST BEAM SIZE, IF NO OTHER SIZE IS PROVIDED ON THE PLANS. BRACING REQUIREMENTS FOR THE TOP OF THE RAIL, OR INTERMEDIATE RAIL BRACE POINTS, SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS. IF BRACING IS REQUIRED BUT NOT SHOWN, PROVIDE A MINIMUM OF TS6x6X1/4 VERTICAL POST OR HANGER ATTACHED TO THE STRUCTURE WITH W8x12 BEAMS OR C7x9.8 CHANNELS SPANNING BETWEEN THE FRAMING MEMBERS. ALL MISCELLANEOUS STEEL MEMBERS REQUIRED TO ATTACH RAILS AT THE RAIL BRACE POINTS SHALL BE SUPPLIED BY THE ELEVATOR SUPPLIER. ELEVATOR MACHINE BEAM OR SHIVE BEAM LOADS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS. LOADS AND LOAD LOCATIONS VARYING FROM THE LOADS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED WITH THE STRUCTURAL ENGINEER OF RECORD. THE FRAMING AND INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS IS BASED ON:

- ELEVATOR MODEL NO. PER SPEC.
- MANUFACTURED BY PER SPEC.

IF THE ELEVATOR MANUFACTURER AND/OR MODEL NUMBER CHANGES, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REVISIONS TO THE FOUNDATIONS AND THE FLOOR AND ROOF FRAMING AS REQUIRED DUE TO THE CHANGE IN THE ELEVATOR TYPE.

IMPORTANT NOTE TO PROPOSERS:

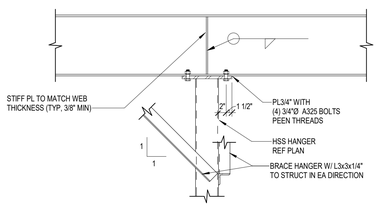
1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL SECONDARY FRAMING WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.

2. WHERE MISCELLANEOUS METAL ITEMS ARE IMPLIED OR INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF THESE ITEMS. THIS INCLUDES ANY MISCELLANEOUS METAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS AND ANY ITEMS SHOWN ON THE STRUCTURAL DRAWINGS AND NOT NOTED. PROPOSERS SHALL ASSUME FOR PROPOSAL PURPOSES ONLY THE SIZE OF THESE ITEMS ARE AS FOLLOWS:

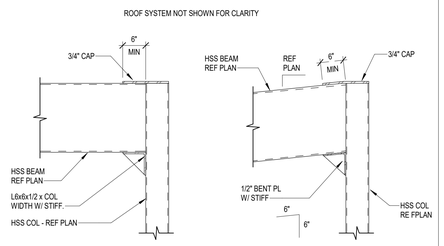
A. ANGLES: L6X6X3/8
B. CHANNELS: C12X20.7
C. PLATES: 1/2" THICK
D. ANCHOR RODS: 1 1/2" DIAMETER X 18"LONG
E. EPOXY ANCHORS: 3/4" DIAMETER AT 48"OC MAX SPACING
F. WIDE FLANGE BEAMS: W24X55
G. WIDE FLANGE COLUMNS: W12X79
H. HSS COLUMNS AND BEAMS: HSS8X8X1/2
J. HSS BEAMS: HSS18X6X5/8
K. VERT BRACE: HSS8X8X3/8

THE CONTRACTOR SHALL SUBMIT AN RFI AND THE ENGINEER SHALL APPROVE THE SIZE OF THE MEMBER BEFORE CONSTRUCTION OR FABRICATION.

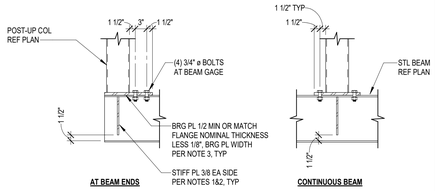
3. PROVIDE SUPPORT FOR EDGES OF ROOF AND FLOOR DECK WHETHER SHOWN ON THE DRAWINGS OR NOT. PROVIDE CONTINUOUS SCREED ANGLE OR BENT PLATE FOR SLAB EDGES.



1 TYPICAL HANGER DETAIL
NO SCALE



2 TYPICAL OUTRIGGER DETAIL
NO SCALE



POST UP

NOTES:

1. CHAMFER CORNERS OF STIFF PL ATE AS REQUIRED AT BEAM "K" REGION.

2. AT INTERSECTING BEAMS, EXTEND SHEAR TAB PER TYPICAL CONNECTION DETAIL FULL DEPTH.

3. BEARING PLATE WIDTH = BEAM FLANGE WIDTH. IF COLUMN IS WIDER THAN BEAM FLANGE, BEARING PLATE WIDTH = COLUMN WIDTH + 1".

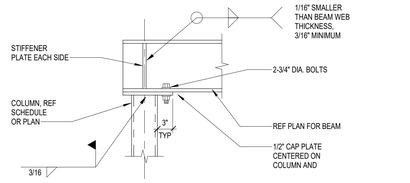
3 TYPICAL POST-UP DETAIL
NO SCALE

NOTES:

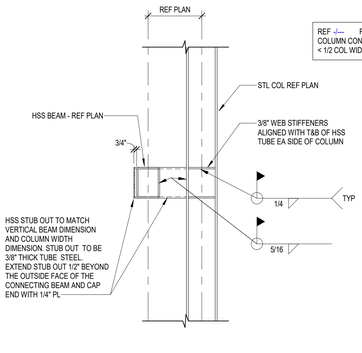
1. REF ROOF PLAN FOR ROOF SLOPE. SLOPE CAP PLATES ACCORDINGLY.

2. STIFFENER PLATE SHALL BE EQUAL IN THICKNESS TO THE COLUMN WALL THICKNESS OR BEAM WEB THICKNESS, WHICHEVER IS GREATER.

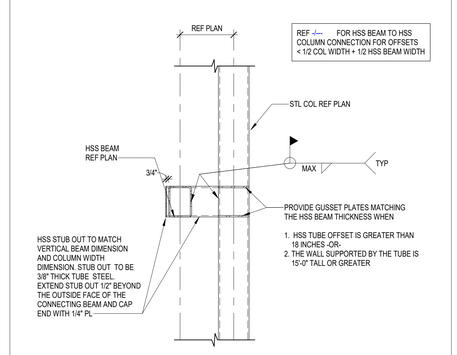
3. CONNECT INTERSECTING BEAMS TO STIFFENER PLATES USING BOLTS IN SINGLE SHEAR DESIGNED FOR ECCENTRIC BEAM REACTION.



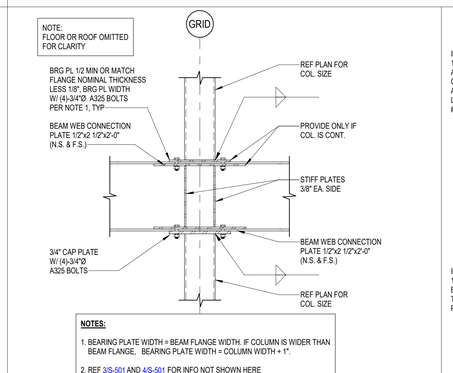
4 TYPICAL CAP PLATE - BOLTED CONNECTION DETAIL
NO SCALE



7 TYPICAL HSS BEAM TO WF COLUMN CONNECTION FOR OFFSETS > 1/2 COL WIDTH + 1/2 HSS BEAM WIDTH
NO SCALE



8 TYPICAL HSS BEAM TO HSS COLUMN CONNECTION FOR OFFSETS > 1/2 COL WIDTH + 1/2 HSS BEAM WIDTH
3/4" = 1'-0"

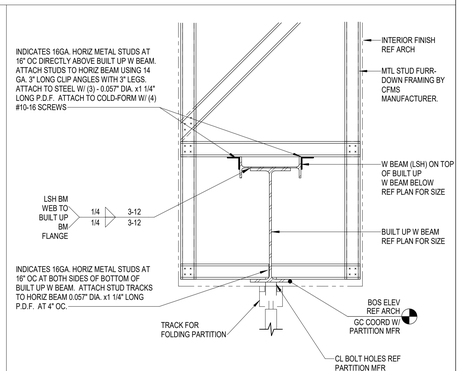


NOTES:

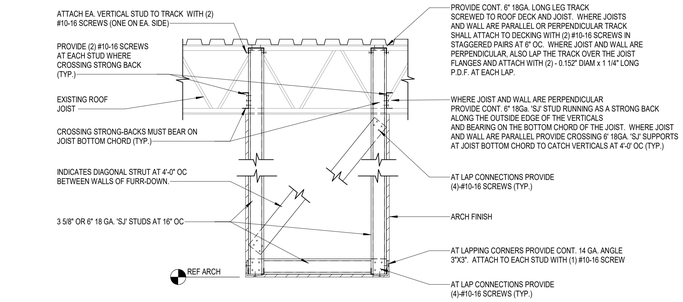
1. BEARING PLATE WIDTH = BEAM FLANGE WIDTH. IF COLUMN IS WIDER THAN BEAM FLANGE, BEARING PLATE WIDTH = COLUMN WIDTH + 1".

2. REF 3/S-501 AND 4/S-501 FOR INFO NOT SHOWN HERE

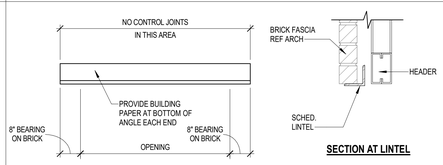
9 TYPICAL CANTILEVERED BEAM OVER COLUMN CONNECTION
3/4" = 1'-0"



10 FOLDING PARTITION SUPPORT
NO SCALE



11 FUR-DOWN DETAIL
3/4" = 1'-0"



SECTION AT LINTEL

CLEAR OPENING	MINIMUM ANGLE SIZE
0 TO LESS THAN 6'-0"	L 3 1/2 x 3 1/2 x 5/16 (GALV)
6'-0" TO LESS THAN 7'-0"	L 5 x 3 1/2 x 5/16 (LLV) (GALV)
7'-0" TO LESS THAN 8'-0"	L 6 x 3 1/2 x 5/16 (LLV) (GALV)

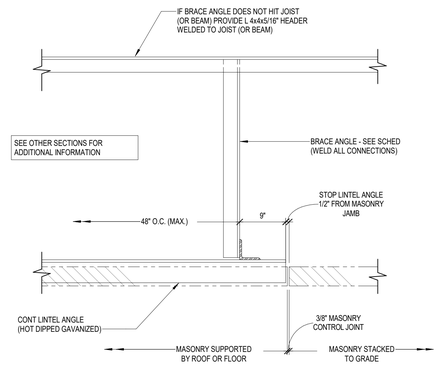
NOTES:

1. REF ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS.

2. PROVIDE 1" OF BEARING @ EACH JAMB FOR EACH FOOT OF CLEARSPAN BUT NOT LESS THAN 8".

3. WHERE MIN. BEARING CANNOT BE ACHIEVED, PROVIDE ADEQUATE CONNECTION TO STRUCTURAL MEMBERS OR PROVIDE VERTICAL SUPPORTS AS REQ'D. SUCH DETAILS SHALL BE APPROVED BY THE ENGINEER OF RECORD.

12 TYPICAL STEEL LOOSE LINTEL SCHEDULE
NO SCALE



PLAN VIEW

13 HANGER BRACE SCHEDULE
NO SCALE

NOTE:

1. WHERE MASONRY IS SUPPORTED BY STEEL TUBES WITHOUT HANGERS AND BRACES, THE NOTES PERTAINING TO LINTEL ANGLES SHALL STILL APPLY.

BRACE ANGLE SCHEDULE

BRACE ANGLE SIZE	HEADER ANGLE SIZE	MAX LENGTH
L 3x3x1/4"	L 4x4x5/16"	9'-6"
L 4x4x1/4"	L 5x5x5/16"	13'-3"
L 5x5x5/16"	L 6x6x3/8"	16'-6"
L 6X6x5/16"	L 6x6x3/8"	20'-0"
CONSULT ENGINEER	CONSULT ENGINEER	OVER 20'-0"

SIZE OF ALL BRACE ANGLES IN COMPRESSION SHALL BE DETERMINED BY STEEL FABRICATOR BASED ON THEIR UNBRACED LENGTHS AS SCHEDULED

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TX. REG. NO. F-23612

PBK

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BROOKS & SPARKS
T 281-578-5599
LANDSCAPE
EDDELEMAN GROUP
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STRUCTURAL
KUBALA ENGINEERS
T 713-840-7343
MEP/T
LEAP
T 713-840-3300
ACOUSTIC
RSDG
T 512-476-3464
FOOD SERVICE
TRANSOM
T 281-356-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J H G F K E D C B A
KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

GENERAL STEEL NOTES AND TYPICAL DETAILS

S-501

ISSUE FOR PROPOSAL

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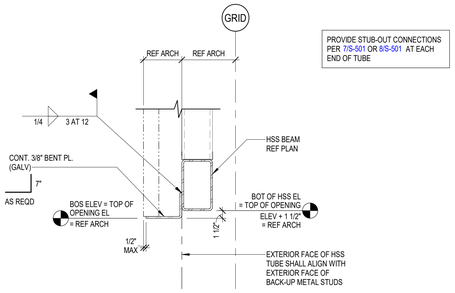
STEEL TYPICAL DETAILS (CONT.)

S-502

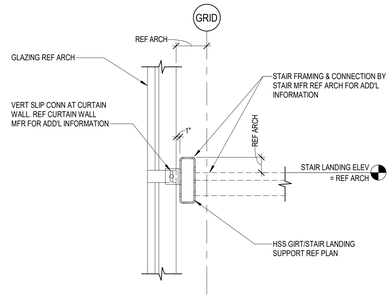
FOR BLUEBEAM LABELING/OCR:

0"

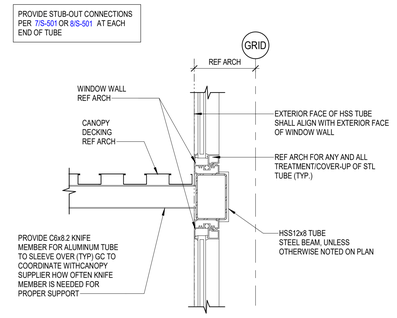
1"



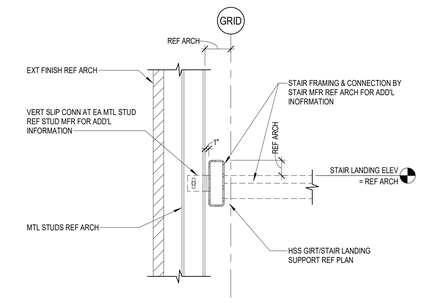
1 TYP LOW TUBE AT BRICK SUPPORT
1" = 1'-0"



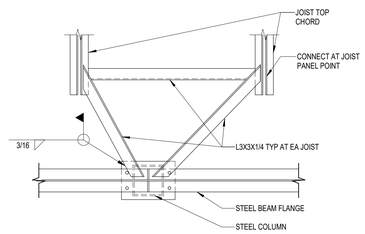
2 TYPICAL GIRT/STAIR LANDING SUPPORT
NO SCALE



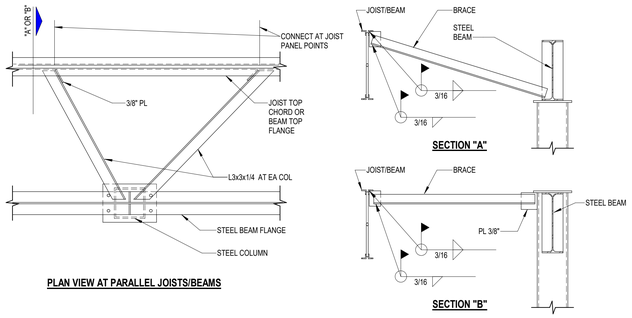
3 TYPICAL INTERMEDIATE WINDOW WALL SUPPORT DETAIL
NO SCALE



4 TYPICAL GIRT/STAIR LANDING SUPPORT
NO SCALE

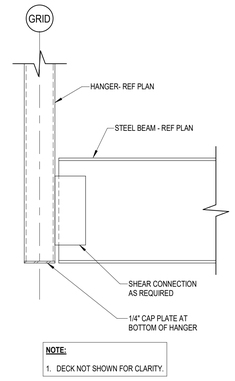


PLAN VIEW AT PERPENDICULAR JOISTS/BEAMS



PLAN VIEW AT PARALLEL JOISTS/BEAMS

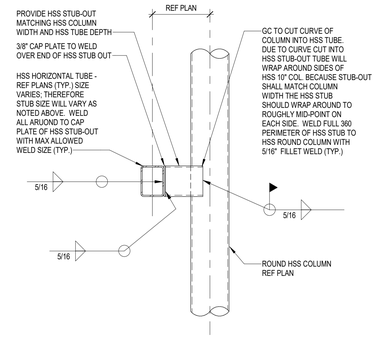
5 TYPICAL COLUMN BRACE AT JOISTS/BEAMS
NO SCALE



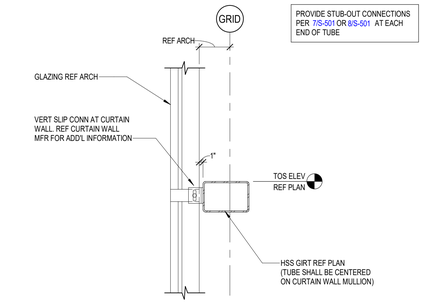
NOTE:

1. DECK NOT SHOWN FOR CLARITY.

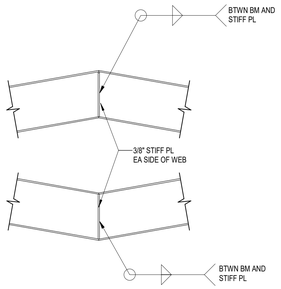
6 TYPICAL BEAM TO HANGER CONNECTION
NO SCALE



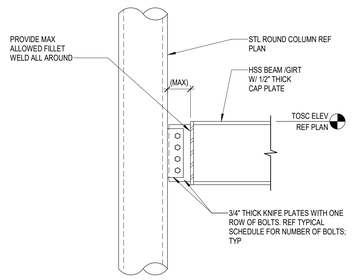
7 TYPICAL OFFSET HSS BEAM TO HSS COLUMN CONNECTION
3/4" = 1'-0"



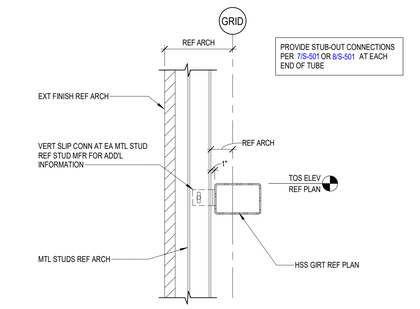
8 TYPICAL HSS GIRT AT GLAZING
NO SCALE



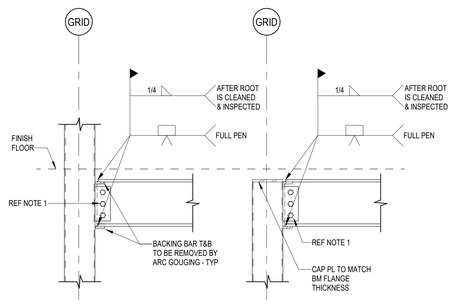
9 TYPICAL BENT BEAM DETAIL
NO SCALE



10 TYPICAL WIND GIRT AT ROUND COLUMN
NO SCALE



11 TYPICAL HSS GIRT AT EXTERIOR METAL STUD
NO SCALE

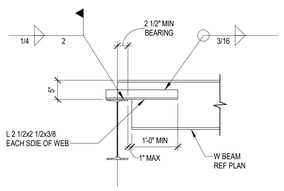


AT FLOOR AT ROOF

NOTES:

1. REF CONNECTION SCHEDULE
2. REF PLANS FOR LOCATIONS AND BEAM COLUMN SIZES.
3. PROVIDE COMPLETE PENETRATION GROOVE WELDS UNLESS OTHERWISE SHOWN.
4. AT TOP LEVELS PROVIDE COLUMN CAP PLATE.

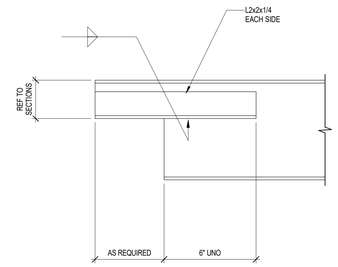
12 TYPICAL MOMENT CONNECTION DETAIL AT HSS COLUMN
NO SCALE



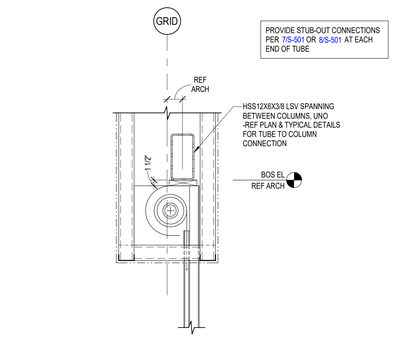
NOTES:

1. CUT BEAM TO MAINTAIN 5" DEPTH ON WEB.
2. MAXIMUM CAPACITY 10k.

13 TYPICAL DEATIL FOR 5" SEAT CONNECTION FOR STEEL BEAM
NO SCALE



14 TYPICAL COPED CHANNEL OR BEAM
NO SCALE



15 OVERHEAD COILING DOOR SUPPORT
3/4" = 1'-0"

Kubala ENGINEERS
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www.kubalaengineers.com
TX. REG. NO. F-23612

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BROOKS & SPARKS
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LEAP
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SHEN
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FOOD SERVICE
RGA
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POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J H G F K E D C B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
REGISTERED
PROFESSIONAL
ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

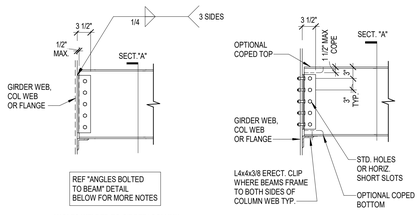
STEEL TYPICAL DETAILS (CONT.)

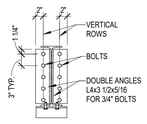
S-502

0"
1"

GENERAL STEEL CONNECTION NOTES AND TYPICAL DETAILS
S-503
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL





THIS CONNECTION SHALL BE USED ONLY WHEN CONNECTING BEAMS TO COLUMNS OR WHEN CONNECTING BEAMS TO GIRDERS WHERE GIRDER HAS BEAM CONNECTION ON ONE SIDE ONLY IF USED AT LOCATIONS WHERE A BEAM CONNECTION IS OPPOSED BY A BEAM CONNECTION ON THE OTHER SIDE OF THE SUPPORTING MEMBER, AN OSHA-APPROVED METHOD MUST BE USED FOR TEMPORARY ERECTION SUPPORT OF BOTH MEMBERS.

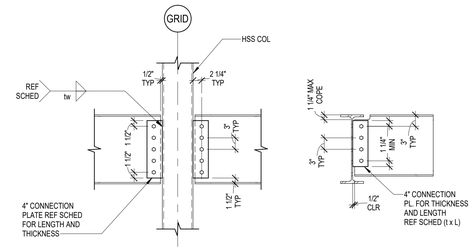
DOUBLE-ANGLE CONNECTION SCHEDULE

BEAM SIZE	NO. OF BOLTS PER VERT. ROW	ANGLE LENGTH (IN)	MAX CAPACITY (KIPS) (ASD)
W8	2	5 1/2	9
W10	2	5 1/2	14
W12	3	8 1/2	23
W14	3	8 1/2	28
W16	4	11 1/2	40
W18	4	11 1/2	48
W21	5	14 1/2	64
W24	6	17 1/2	83
W27	6	17 1/2	113
W30	7	20 1/2	119
W33	8	23 1/2	142
W36	9	26 1/2	160
W40	10	29 1/2	193
W44	10	29 1/2	195

NOTES:

1. ALLOWABLE CAPACITIES ARE IN KIPS (SERVICE LEVEL - UNFACTORED).
2. CAPACITIES BASED ON GRADE 50 BEAMS, A325-N BOLTS, AND A36 ANGLES.
3. HOLES SHALL BE STANDARD (STD) OR SHORT-SLOPPED (SSLT).
4. ALL INFORMATION SHOWN IN THE SCHEDULE ABOVE IS TO BE USED AS A MINIMUM REQUIREMENT FOR ALL CONNECTIONS.
5. ALTERNATE CONNECTION DETAILS ARE ACCEPTABLE PROVIDED SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS ARE SUBMITTED, AND ALL CONNECTION DESIGNS ARE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

1 TYPICAL DOUBLE ANGLE CONNECTION
NO SCALE



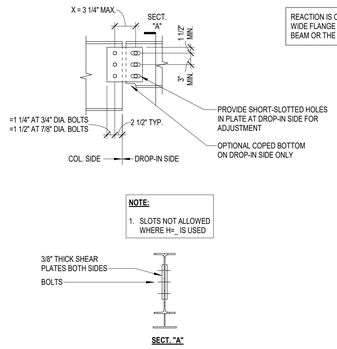
SINGLE PLATE CONNECTION SCHEDULE

BEAM SIZE	SHEAR PLATE (t x L)	WELD SIZE (tw)	A325-N BOLT DIAMETER	NO. OF BOLTS PER VERT. ROW	MAX CAPACITY (KIPS) (ASD)
W8	3/8" x 5 1/2	3/16"	3/4"	2	9
W10	3/8" x 5 1/2	1/4"	7/8"	2	14
W12	3/8" x 8 1/2	1/4"	7/8"	3	23
W14	3/8" x 8 1/2	1/4"	7/8"	3	28
W16	3/8" x 11 1/2	1/4"	7/8"	4	40
W18	1/2" x 11 1/2	1/4"	7/8"	4	48
W21	1/2" x 14 1/2	1/4"	1"	5	64
W24	1/2" x 17 1/2	1/4"	1"	6	83
W27	5/8" x 20 1/2	1/4"	1"	7	113
W30	5/8" x 20 1/2	1/4"	1"	7	119
W33	5/8" x 23 1/2	5/16"	1"	8	142
W36	5/8" x 26 1/2	5/16"	1"	9	160

NOTES:

1. ALLOWABLE CAPACITIES ARE IN KIPS (SERVICE LEVEL - UNFACTORED).
2. CAPACITIES BASED ON GRADE 50 BEAMS, A325N BOLTS, AND A36 PLATES.
3. HOLES SHALL BE STANDARD (STD) OR SHORT-SLOPPED (SSLT).
4. ALL INFORMATION SHOWN IN THE SCHEDULE ABOVE IS TO BE USED AS A MINIMUM REQUIREMENT FOR ALL CONNECTIONS.
5. ALTERNATE CONNECTION DETAILS ARE ACCEPTABLE PROVIDED SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS ARE SUBMITTED, AND ALL CONNECTION DESIGNS ARE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
6. WELD SIZES SHOWN IN THE ABOVE SCHEDULE ASSUME THAT THE SUPPORTING COLUMN / GIRDER MEETS THE REQUIRED THICKNESS OF THE WELD. IF THE SUPPORTING COLUMN / GIRDER DOES NOT MEET THE REQUIRED THICKNESS FOR THE SCHEDULED WELD SIZE, THE CONNECTION DESIGNER SHALL PROVIDE A SHEAR CONNECTION WHICH MEETS THE CAPACITIES PROVIDED IN THE SCHEDULE ABOVE.

2 TYPICAL SHEAR TAB BOLTED CONNECTION SCHEDULE
NO SCALE



REACTION IS CALCULATED FROM THE DROP-IN SPAN. WIDE FLANGE SIZE IS THE SMALLER OF THE DROP-IN BEAM OR THE SUPPORTING BEAM.

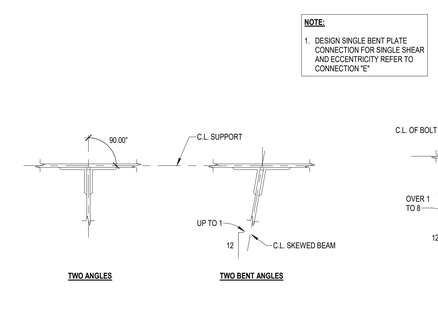
NOTE:

1. SLOTS NOT ALLOWED WHERE H= IS USED

CONNECTION LOAD CAPACITY

WIDE FLANGE BEAM SIZE	# BOLTS PER VERT ROW	MINIMUM BEAM WEB THICKNESS (IN)	MAX REACTION (KIPS) (ASD)	
			3/4" DIA. BOLT X= 3 1/4" BOLTS	7/8" DIA. BOLT X= 3 3/4" BOLTS
W8x10	2	.170	15	14
W10x12	2	.190	18	24
W12x14	3	.200	30	29
W12x16	3	.220	33	32
W8 TO W12	2	.230	18	20
W12 TO W18	3	.235	36	34
W16 TO W24	4	.250	53	51
W18 TO W30	5	.300	70	67
W21 TO W44	6	.350	97	92
W24 TO W44	7	.395	126	119
W30 TO W44	8	.470	150	187
W33 TO W44	9	.550	173	234
W36 TO W44	10	.600	195	261
W40 TO W44	11	.630	217	287
W44	12	.710	238	313

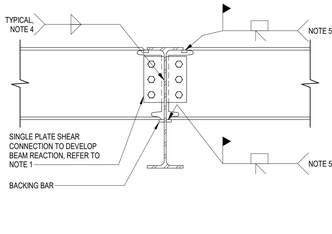
3 TYPICAL SHEAR SPLICE CONNECTION
NO SCALE



NOTE:

1. DESIGN SINGLE BENT PLATE CONNECTION FOR SINGLE SHEAR AND ECCENTRICITY REFER TO CONNECTION "E"

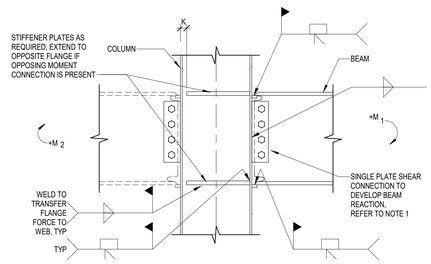
4 TYPICAL SKEWED SIMPLE FRAMING CONNECTION - BEAM TO BEAM
NO SCALE



NOTES:

1. BOLTS IN WEB CONNECTION MAY BE SNUG-TIGHTENED OR PRETENSIONED A325 OR A490 BOLTS WITH HORIZONTAL SHORT-SLOTTED HOLES IN PLATE. IF BOLTS ARE TO BE PRETENSIONED, SNUG-TIGHTEN BOLTS PRIOR TO WELDING FLANGES AND PRETENSION AFTER WELDING FLANGES.
2. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN CRITERIA.
3. PROVIDE PREDESIGNED SHEAR CONNECTIONS AS SHOWN IN AMERICAN INSTITUTE OF STEEL CONSTRUCTION LRFD MANUAL WHERE APPLICABLE.
4. MINIMUM FILLET WELD SIZE FOR SINGLE PLATE SHEAR CONNECTIONS SHALL BE 5/8 TIMES THE PLATE THICKNESS.
5. IF MOMENT IS SHOWN ON DRAWINGS, PARTIAL PENETRATION WELD TO DEVELOP MOMENT CAN BE USED IN LIEU OF COMPLETE JOINT PENETRATION WELD. FOR THIS CASE, WELD SHALL BE REQUIRED TO DEVELOP THE BEAM FLANGE FORCE COMPUTED AS FOLLOWS: Pu = (Mu)/(0.95D), WHERE:
   Mu = DESIGN MOMENT (KIP-FEET).
   D = BEAM DEPTH (INCHES).
   Pu = BEAM FLANGE FORCE (KIPS).

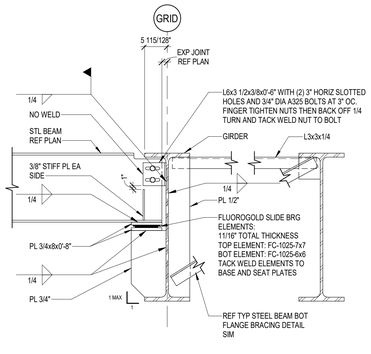
5 TYPICAL BEAM-TO-BEAM MOMENT CONNECTION DETAIL
NO SCALE

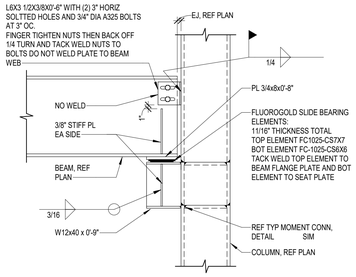


NOTES:

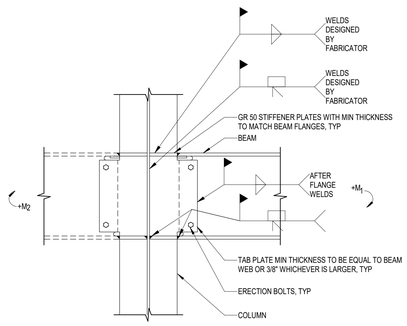
1. BOLTS IN WEB CONNECTION MAY BE SNUG-TIGHTENED OR PRETENSIONED A325 OR A490 BOLTS WITH HORIZONTAL SHORT-SLOTTED HOLES IN PLATE. IF BOLTS ARE TO BE PRETENSIONED, SNUG-TIGHTEN BOLTS PRIOR TO WELDING FLANGES AND PRETENSION AFTER WELDING FLANGES.
2. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN CRITERIA.
3. PROVIDE PREDESIGNED SHEAR CONNECTIONS AS SHOWN IN AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL WHERE APPLICABLE.
4. MINIMUM FILLET WELD SIZE FOR SINGLE PLATE SHEAR CONNECTIONS SHALL BE 5/8 TIMES THE PLATE THICKNESS.
5. WHEN BEAM FRAMES ON ONLY ONE SIDE OF COLUMN OR WHEN BEAM MOMENTS ARE SIGNIFICANTLY UNBALANCED (I M + M I >>0), STRENGTHEN COLUMN WEB AS REQUIRED.
6. ALL CJP WELDS: CVN = 20FT-LBS AT 40°F.

6 TYPICAL MOMENT CONNECTION AT COLUMN FLANGE
NO SCALE





7 TYPICAL SLIDE BEARING CONNECTION
3/4" = 1'-0"



NOTES:

1. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN CRITERIA.
2. WHEN BEAM FRAMES ON ONLY ONE SIDE OF COLUMN OR WHEN BEAM MOMENTS ARE SIGNIFICANTLY UNBALANCED (I M + M I >>0), STRENGTHEN COLUMN WEB AS REQUIRED.
3. ALL CJP WELDS: CVN = 20FT-LBS AT 40°F.

8 TYPICAL MOMENT CONNECTION AT COLUMN WEB
3/4" = 1'-0"

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

GENERAL STEEL CONNECTION NOTES AND TYPICAL DETAILS

S-503

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GENERAL COMPOSITE STEEL NOTES AND TYPICAL DETAILS

S-504

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

SLABS FORM DECK (AT FLOORS):

1. FLOOR DECK SHALL BE CONTINUOUS OVER FOUR OR MORE SUPPORTS. AT LOCATIONS WHERE SINGLE OR DOUBLE SPAN CONDITIONS OCCUR, THE CONTRACTOR SHALL EITHER SHORE THE DECK, OR ADJUST THE GAGE THICKNESS OF THE DECK IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DECK SHALL BE DESIGNED TO PROVIDE EQUIVALENT OR GREATER LOAD CAPACITY AS THE SPECIFIED DECK SUPPORT OVER FOUR SUPPORTS.

2. DESIGN OF COMPOSITE STEEL BEAMS AND DETAILS FOR CONSTRUCTION ARE BASED ON THE FOLLOWING DECK SYSTEM:

METAL DECK SCHEDULE

DECK DESIGNATION	DECK GAUGE	SDI DECK TYPE	DECK DEPTH (IN)	Ie+ (IN4)	Ie- (IN4)	Se+ (IN3)	Se- (IN3)	Fy (KSI)	METAL DECK CONNECTION SCHEDULE: FASTEN DECK TO SUPPORT MEMBERS – ATTACHMENT PATTERN (W/N)	FASTEN DECK TO SUPPORT MEMBERS – SUPPORT FASTENERS	SIDELAP FASTENERS
3.0 VLI	20	COMPOSITE	3.0	0.919	0.921	0.512	0.539	50	36/4	5/8" PUDDLE WELD	1-1/2" TOP ARC SEAM WELDS @ 12" OC

Ie+: POSITIVE EFFECTIVE MOMENT OF INERTIA
Ie-: NEGATIVE EFFECTIVE MOMENT OF INERTIA
Se+: POSITIVE EFFECTIVE SECTION MODULUS
Se-: NEGATIVE EFFECTIVE SECTION MODULUS
FY:YIELD STRENGTH
W/N: SHEET WIDTH / NUMBER OF CONNECTIONS EACH SHEET

3. COMPOSITE STEEL BEAMS DO NOT REQUIRE SHORING TO SUPPORT THE WET WEIGHT OF CONCRETE. BEAMS WILL BE HIGHLY STRESSED AS CONCRETE IS PLACED AND MUST BE POSITIVELY BRACED BY THE METAL DECK CONNECTIONS. DO NOT EXCEED CONCRETE THICKNESSES SHOWN.

4. WARNING: IN NON-SHORED CONSTRUCTION, EXCESSIVE CONCRETE WEIGHT DURING CASTING CAN CAUSE SUPPORTING BEAMS TO COLLAPSE. DO NOT, UNDER ANY CIRCUMSTANCES, EXCEED THE DESIGN SLAB THICKNESS BY MORE THAN 3/4 INCH. CAREFULLY CHECK BEAM CAMBERS AND RETURN ANY FOUND TO BE OUT OF TOLERANCE TO THE SHOP FOR CORRECTION.

5. PRIOR TO ERECTING THE FIRST COMPOSITE BEAMS, THE CONTRACTOR SHALL CALL A SPECIAL PRE-CONSTRUCTION MEETING WITH APPLICABLE SUBCONTRACTORS, TESTING LABORATORY, ARCHITECT AND STRUCTURAL ENGINEER TO REVIEW ALL REQUIREMENTS AND ESTABLISH A QUALITY CONTROL PROCEDURE.

6. THE FINISHED COMPOSITE FLOOR SHALL NOT BE LOADED WITH CONSTRUCTION MATERIALS BEFORE THE CONCRETE HAS ATTAINED 75 PERCENT OF ITS SPECIFIED STRENGTH.

7. ALL SHEAR STUDS SHALL BE FIELD APPLIED, UNLESS OTHERWISE NOTED. SIZE SHALL BE SELECTED FROM THE FOLLOWING TABLE DEPENDING ON DECK AND SLAB DIMENSIONS:

DECK THICKNESS	TOTAL SLAB THICKNESS	SHEAR STUDS
3"	5.5"	3/4" DIA. X 5"
3"	6.5"	3/4" DIA. X 5"
3"	7.5"	3/4" DIA. X 5"
2"	5.5"	3/4" DIA. X 5"
2"	6.5"	3/4" DIA. X 5"

8. PLACE THE INDICATED NUMBER OF SHEAR STUDS ALONG THE LENGTH OF THE BEAM OR BEAM SEGMENT AS SHOWN IN THE SHEAR STUD PLACEMENT DIAGRAMS. STUDS SHALL BE EQUALLY SPACED IN A SINGLE ROW WHERE POSSIBLE, ALLOWING A SINGLE STUD IN THE DECK FLUTES, WHERE APPLICABLE. WHERE ADDITIONAL STUDS ARE REQUIRED TO OBTAIN THE SPECIFIED NUMBER OF STUDS IN A LENGTH OF BEAM, PLACE STUDS IN TANDEM PAIRS PER THE SHEAR STUD PLACEMENT DIAGRAM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING PROPER STUD LAYOUT FOR EACH BEAM PRIOR TO INSTALLATION OF STUDS IN THE FIELD. REFER TO TYPICAL DETAILS FOR PLACEMENT OF SHEAR STUDS ON BEAMS.

9. WHERE MULTIPLE NUMBERS OF STUDS ARE SHOWN FOR A BEAM, PLACE EACH QUANTITY OF STUDS IN THE CORRESPONDING BEAM SEGMENT WHERE THE NUMBER IS SHOWN.

10. PROVIDE CAMBER IN MEMBERS WHERE INDICATED. SPECIFIED CAMBER APPLIES AT JOBSITE, JUST PRIOR TO ERECTION, LYING DOWN FLAT SO THAT MEMBER WEIGHT HAS NO EFFECT. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT OR COMPENSATE FOR CAMBER LOSS DURING SHIPMENT. MEASURED CAMBER IN MEMBERS UP TO 50'-0" LONG SHALL BE WITHIN A TOLERANCE OF -0" TO +1/2" FROM AMOUNT SPECIFIED. FOR MEMBERS GREATER THAN 50'-0" LONG, BOTH POSITIVE AND NEGATIVE TOLERANCE MAY INCREASE 1/8" FOR EVERY 10'-0" OF LENGTH IN EXCESS OF 50'-0". MEMBERS WITH A FIELD MEASURED CAMBER OUTSIDE OF SPECIFIED TOLERANCE SHALL BE RETURNED TO SHOP.

11. SUPPORT CAMBERED MEMBERS DURING SHIPMENT AND HANDLING IN A MANNER WHICH WILL NOT RESULT IN LOSS OF CAMBER.

12. THE CONTRACTOR SHALL MEASURE AND RECORD CAMBER OF ALL BEAMS UPON ARRIVAL AND BEFORE ERECTION FOR COMPLIANCE WITH THE SPECIFIED CAMBER. MEASURE LYING FLAT WITH WEB HORIZONTAL. MEMBERS OUTSIDE THE CAMBER TOLERANCE SHALL BE RETURNED TO THE SHOP FOR CORRECTION. CAMBERS MEASURED BY THE CONTRACTOR ARE TO BE VERIFIED BY THE OWNER'S TESTING LABORATORY.

13. PLACE AN EXTRA LAYER OF WIRE MESH 6'-0" WIDE IN THE TOP OF THE SLAB ABOVE ALL INTERIOR GIRDERS WHICH RUN PARALLEL TO THE DECK SPAN.

14. PLACE SUPPORTS FOR WIRE MESH ON METAL DECK, SO THAT THE MESH IS MAINTAINED IN POSITION 3/4" BELOW THE TOP OF SLAB.

15. METAL DECK SHALL, IN GENERAL, BE FASTENED TO STEEL FRAMEWORK BY WELDING SHEAR STUDS THROUGH THE DECK. IF FIELD WELDED SHEAR STUDS THROUGH METAL DECK ARE NOT CALLED FOR IN SCHEDULE OR ON DRAWINGS,DECK SHALL BE WELDED TO STEEL FRAMEWORK BY PUDDLE WELDS NOT LESS THAN 3/4" DIAMETER, SPACED NOT MORE THAN 1'-0". WHERE SHEAR STUD SPACING EXCEEDS SPECIFIED MAXIMUM DECK WELD SPACING, USE ADDITIONAL PUDDLE WELDS AT 1'-0" BETWEEN STUDS. WHERE 2 UNITS ABUT, EITHER END-TO-END OR SIDE-TO-SIDE, EACH SHALL BE SO FASTENED TO STEEL FRAMING.

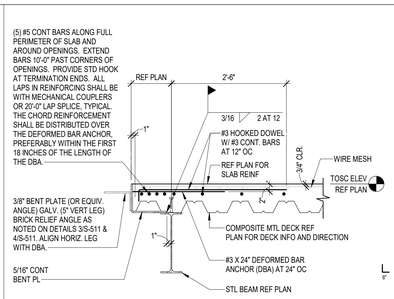
16. WELD GIRDER FILLERS TO STEEL BEAM WITH 2" LONG FILLET WELDS AT A MAXIMUM SPACING OF 12 INCHES. CONNECT SIDES OF ADJACENT UNITS WITH 1 1/2" LONG WELDS AT 3'-0" OC MAX.

17. DEFLECTION OF DECK AND/OR STEEL WILL TAKE PLACE WHEN CONCRETE IS POURED. THE SPECIFIED CONCRETE SLAB THICKNESS SHALL BE MAINTAINED AT COLUMN LOCATIONS. SLAB THICKNESS AWAY FROM THE COLUMNS WILL VARY DUE TO BEAM AND DECK DEFLECTIONS. MINIMUM THICKNESS OF CONCRETE REQUIRED MUST BE PROVIDED, AND TOP SURFACES OF SLABS MUST BE CONSTRUCTED WITHIN SPECIFIED TOLERANCES. WHERE THERE IS RESIDUAL CAMBER IN STEEL BEAMS, FINISHED CONCRETE SURFACE SHALL FOLLOW CAMBER OF BEAMS, BUT FINISHED SURFACE SHALL NOT VARY BY MORE THAN 1/4" FROM ONE BEAM TO ANOTHER ADJACENT BEAM, NOR 1/2" TOTAL FOR LENGTH OF FLOOR. CAMBERED BEAMS ARE INTENDED TO DEFLECT TO APPROXIMATELY A STRAIGHT LINE UNDER FULL WEIGHT OF CONCRETE SLAB. IF ALL TOP OF STEEL ELEVATIONS AND CAMBERS ARE AS SPECIFIED IN THE DRAWINGS. THE CONTRACTOR SHALL BE FAMILIAR WITH THE CONDITIONS OF THE PROJECT AND FURNISH THE MATERIALS REQUIRED TO CREATE THE SPECIFIED FLOOR ELEVATION. NO ADJUSTMENT WILL BE MADE TO CONTRACT PRICE FOR ADDITIONAL CONCRETE REQUIRED BECAUSE OF DEFLECTION OF DECK OR STEEL OR DUE TO DIFFERENTIAL CAMBER.

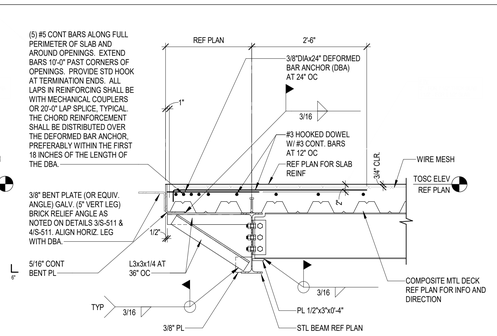
18. NO CONDUITS ALLOWED IN SLABS WITHOUT PRIOR APPROVAL FROM ENGINEER OF RECORD.

19. DO NOT HANG CONCENTRATED LOAD EXCEEDING 100LB FROM COMPOSITE METAL DECKING. ALL MEP APPURTENANCES EXCEEDING 100LB SHALL BE SUPPORTED BY STEEL BEAMS OR JOISTS.

20. ALL METAL FLOOR DECKING SHALL BE GALVANIZED WITH [G90] COATING CONFORMING TO ASTM A924.

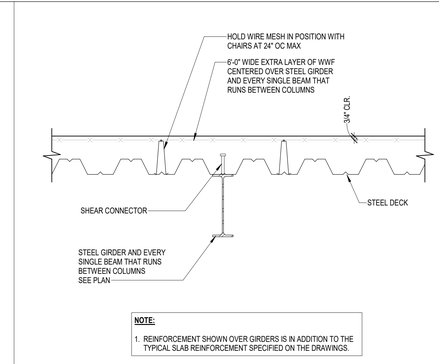


SLAB CANTILEVER 12" OR LESS



SLAB CANTILEVER >12" AND <30"

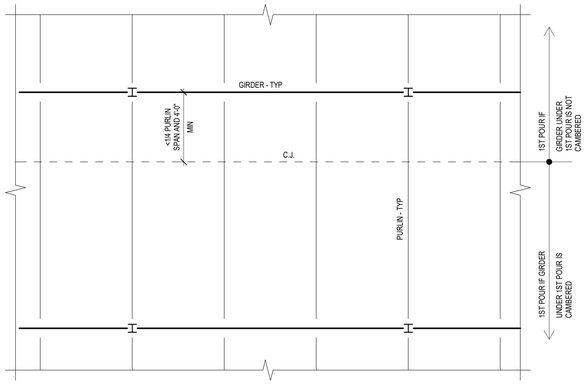
1 TYPICAL COMPOSITE SLAB EDGE DETAIL
NO SCALE



NOTE:

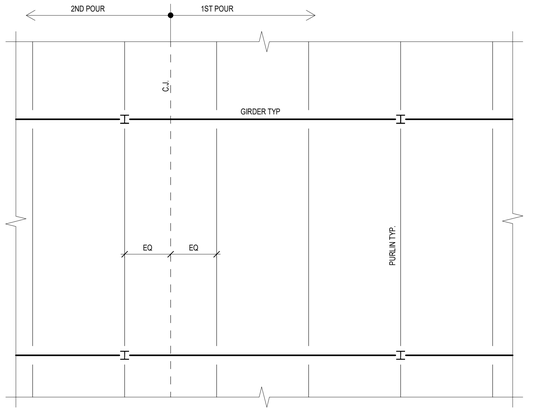
1. REINFORCEMENT SHOWN OVER GIRDERS IS IN ADDITION TO THE TYPICAL SLAB REINFORCEMENT SPECIFIED ON THE DRAWINGS.

2 TYPICAL DETAIL FOR ADD'L REINF IN COMPOSITE SLAB AT INTERIOR GIRDERS
NO SCALE



PLAN

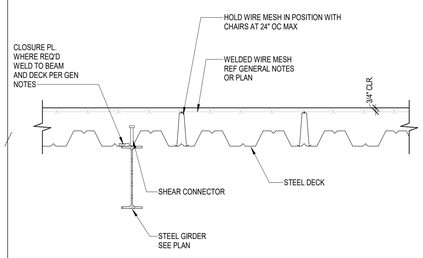
CONSTRUCTION JOINT - PARALLEL TO GIRDER



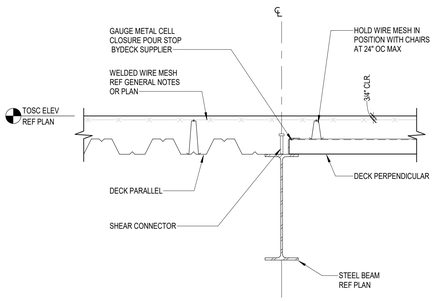
PLAN

CONSTRUCTION JOINT - PARALLEL TO PURLINS

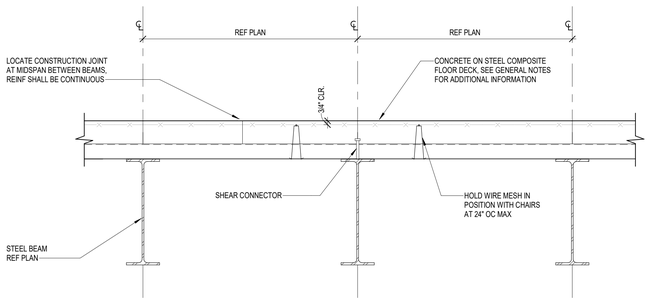
5 TYPICAL DETAIL FOR COMPOSITE SLAB CONSTRUCTION JOINTS
NO SCALE



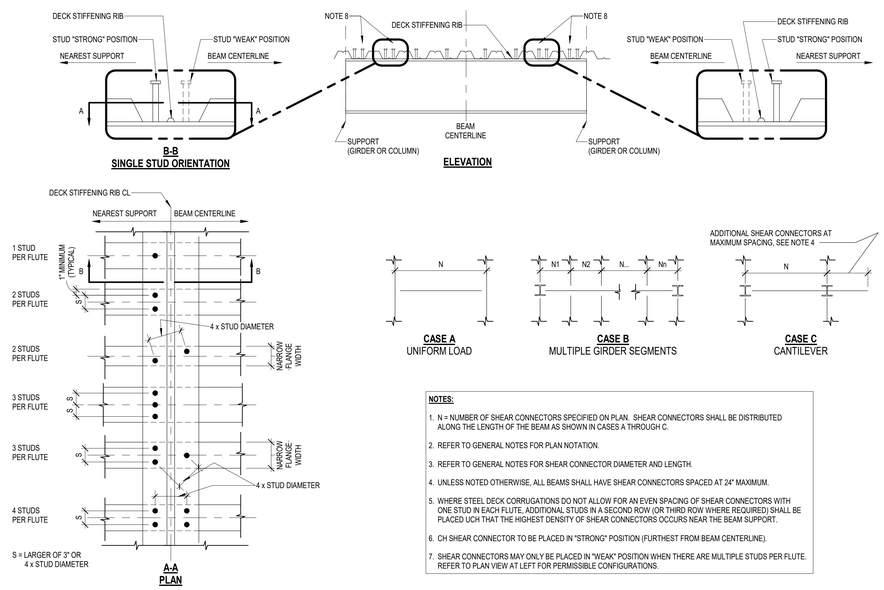
3 TYPICAL DECK PARALLEL TO BEAM
NO SCALE



4 TYPICAL DECKING DIRECTION CHANGE
NO SCALE



6 TYPICAL DECK PERPENDICULAR TO BEAM
NO SCALE



NOTES:

1. N = NUMBER OF SHEAR CONNECTORS SPECIFIED ON PLAN. SHEAR CONNECTORS SHALL BE DISTRIBUTED ALONG THE LENGTH OF THE BEAM AS SHOWN IN CASES A THROUGH C.
2. REFER TO GENERAL NOTES FOR PLAN NOTATION.
3. REFER TO GENERAL NOTES FOR SHEAR CONNECTOR DIAMETER AND LENGTH.
4. UNLESS NOTED OTHERWISE, ALL BEAMS SHALL HAVE SHEAR CONNECTORS SPACED AT 24" MAXIMUM.
5. WHERE STEEL DECK CORRUGATIONS DO NOT ALLOW FOR AN EVEN SPACING OF SHEAR CONNECTORS WITH ONE STUD IN EACH FLUTE, ADDITIONAL STUDS IN A SECOND ROW (OR THIRD ROW WHERE REQUIRED) SHALL BE PLACED UCH THAT THE HIGHEST DENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT.
6. CH SHEAR CONNECTOR TO BE PLACED IN "STRONG" POSITION (FURTHEST FROM BEAM CENTERLINE).
7. SHEAR CONNECTORS MAY ONLY BE PLACED IN "WEAK" POSITION WHEN THERE ARE MULTIPLE STUDS PER FLUTE. REFER TO PLAN VIEW AT LEFT FOR PERMISSIBLE CONFIGURATIONS.

SHEAR CONNECTORS HAVE HIGHEST CAPACITIES WHEN PLACED AS SHOWN. IF STUDS ARE NOT PLACED PER THIS DETAIL, 25% MORE STUDS MUST BE INSTALLED. EQUALLY SPACE ADDITIONAL STUDS ALONG THE BEAM.

7 TYPICAL SHEAR CONNECTOR PLACEMENT DIAGRAM - IN STUDS " STRONG" POSITION
NO SCALE

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CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J H G F K E D C B A

KEY PLAN
NORTH: PLAN TRUE

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LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

GENERAL COMPOSITE STEEL NOTES AND TYPICAL DETAILS

S-504

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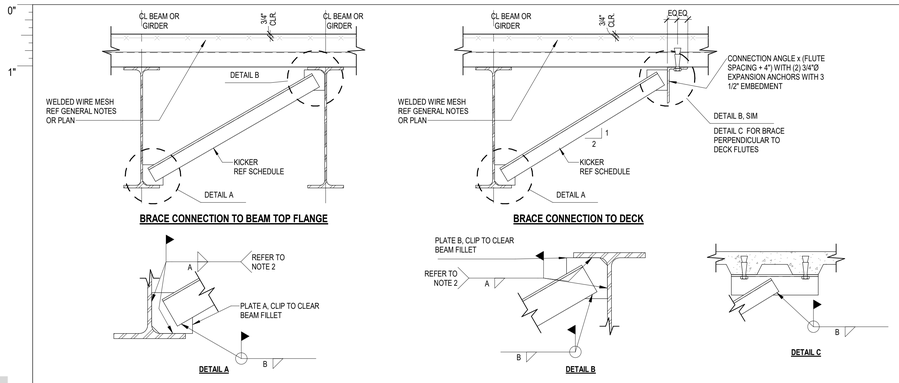
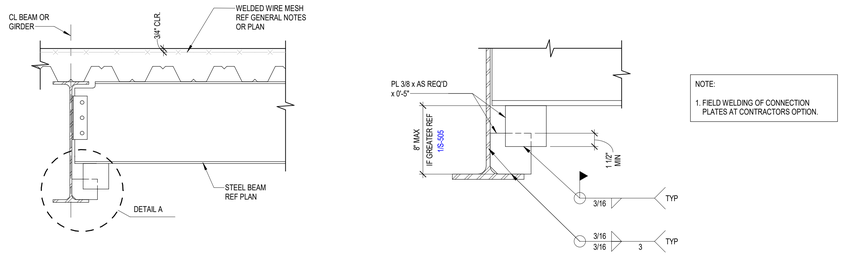
ISSUE FOR PROPOSAL



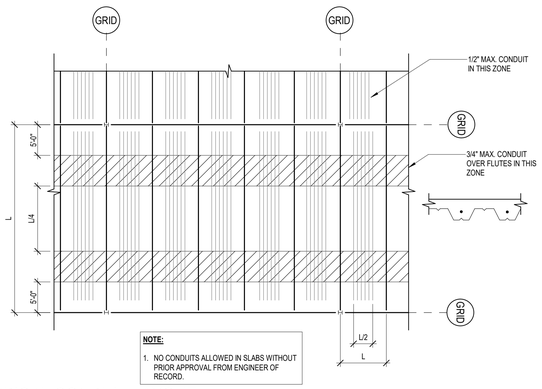
CONNECTION SCHEDULE				
KICKER LENGTH	KICKER SIZE	PLATES A & B	WELDS A & B	CONNECTION ANGLE
UP TO 3'-0"	L2 1/2x2 1/2 x3/16	4x4x3/8	3/16	L3x3x1/4
3'-0" TO 8'-0"	L3x3x1/4	4x4x3/8	3/16	L4x4x1/4
8'-0" TO 12'-0"	L4x4x1/4	5x5x3/8	3/16	N/A
12'-0" TO 16'-0"	L5x5x5/16	6x6x3/8	1/4	N/A

NOTES:
1. REFER TO PLAN AND DETAILS FOR LOCATIONS OF ANGLE BRACES.
2. FIELD WELDING OF CONNECTION PLATES SHALL BE AT FABRICATOR'S OPTION.

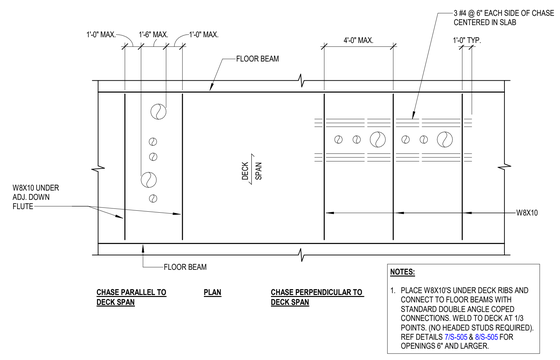
1 TYPICAL BEAM BOTTOM FLANGE BRACE (COMPOSITE CONSTRUCTION)
NO SCALE



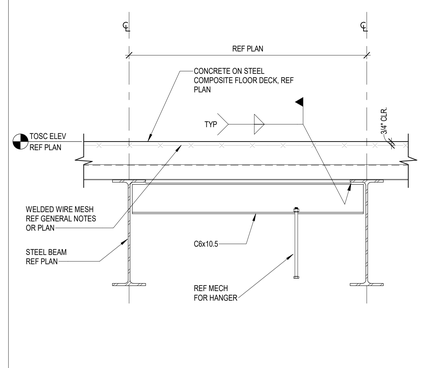
2 TYPICAL BEAM BOTTOM FLANGE BRACE (COMPOSITE CONSTRUCTION)
1" = 1'-0"



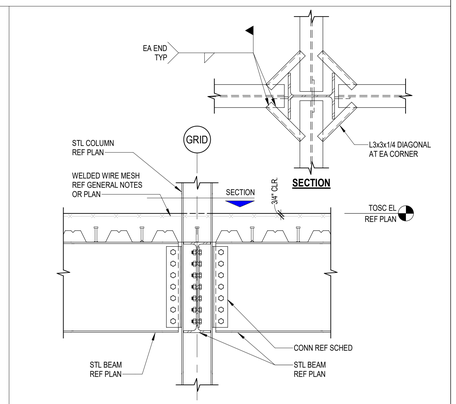
3 TYPICAL CONDUIT LAYOUT
NO SCALE



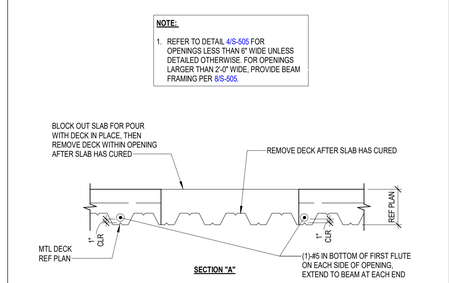
4 TYPICAL DETAIL FOR FLOOR STRENGTHENING AT PLUMBING CHASE
NO SCALE

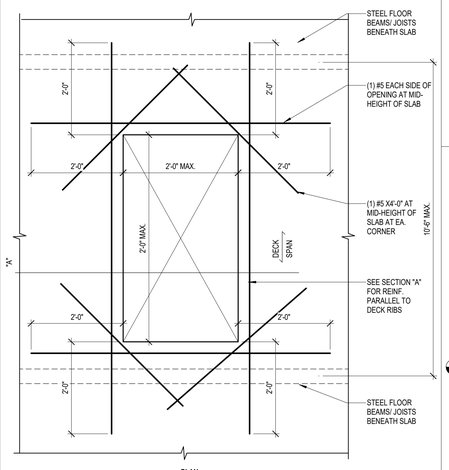


5 TYPICAL MECHANICAL HANGER AT FLOOR
NO SCALE

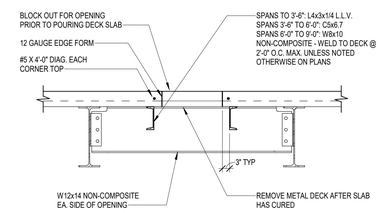


6 TYPICAL DECK SUPPORT AT COLUMN DETAIL
3/4" = 1'-0"

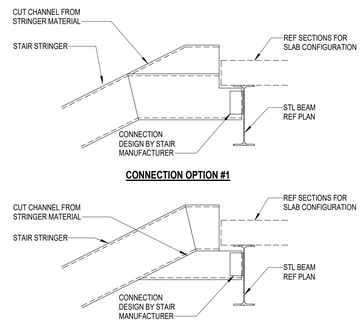




7 TYPICAL DETAIL FOR SMALL MECHANICAL OPENING FROM 6" WIDE TO 24" WIDE IN COMPOSITE SLAB
NO SCALE

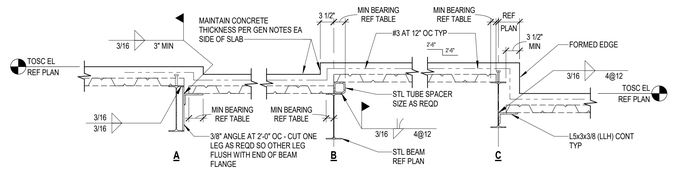


8 TYPICAL DETAIL FOR LARGE MECHANICAL OPENING IN COMPOSITE SLAB OVER 2'-0" PERPENDICULAR TO DECK SPAN
NO SCALE



THE DESIGN OF THE STAIR CONNECTIONS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE STAIR SUPPLIER. OTHER OPTIONS MAY BE ACCEPTABLE, HOWEVER THE LOAD MUST BE DELIVERED TO THE STRUCTURAL STEEL AND NOT THE SLAB EDGE.

9 TYPICAL CONNECTION OPTIONS FOR STAIR STRINGER TO STRUCTURAL STEEL
3/4" = 1'-0"



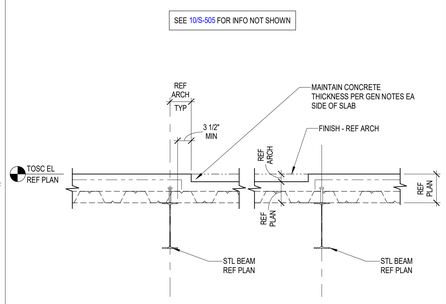
NORMAL WEIGHT CONCRETE				
MINIMUM BEARING LENGTH REQUIRED				
	SLAB DEPTH ABOVE FLUTES			
DECK TYPE	2 1/2	3	3 1/2	4 1/2
3 VLI 22	2 1/2	2 1/2	2 1/2	2 1/2
3 VLI 20	2 1/2	2 1/2	2 1/2	2 1/2
2 VLI 22	2	2	2	2
2 VLI 20	1 1/2	1 1/2	1 1/2	2
2 VLI 18	1 1/2	1 1/2	1 1/2	2

NOTE :
MINIMUM BEARING FOR ALL DECK TYPES AND SLAB THICKNESSES IS 1 1/2" UNLESS LISTED IN THE TABLE ABOVE.

LIGHTWEIGHT CONCRETE				
MINIMUM BEARING LENGTH REQUIRED				
	SLAB DEPTH ABOVE FLUTES			
DECK TYPE	2 1/2	3	3 1/2	4 1/4
3 VLI 22	2 1/2	2 1/2	2 1/2	2 1/2
3 VLI 20	2	2 1/2	2 1/2	2 1/2
2 VLI 22	1 1/2	2	2	2

NOTE :
MINIMUM BEARING FOR ALL DECK TYPES AND SLAB THICKNESSES IS 1 1/2" UNLESS LISTED IN THE TABLE ABOVE.

10 TYPICAL FLOOR DECK SUPPORTS AT SLAB OFFSETS
3/4" = 1'-0"



11 TYPICAL FLOOR DECK SUPPORTS AT SLAB OFFSETS
3/4" = 1'-0"

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POOL/AQUATICS
CONSULTANT NAME
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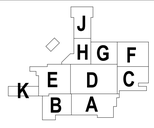
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
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COMPOSITE STEEL TYPICAL DETAILS (CONT.)

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S-505

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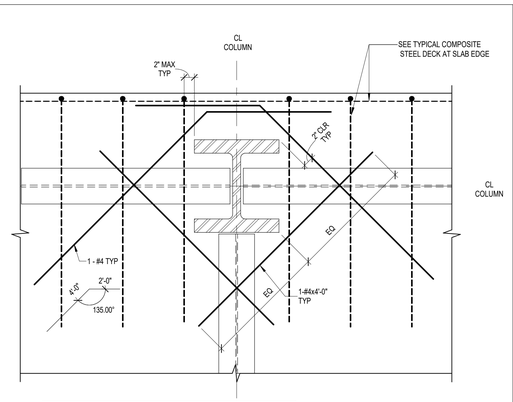
TYPICAL STEEL DECK DETAILS

S-506

FOR BLUEBEAM LABELING/OCR:

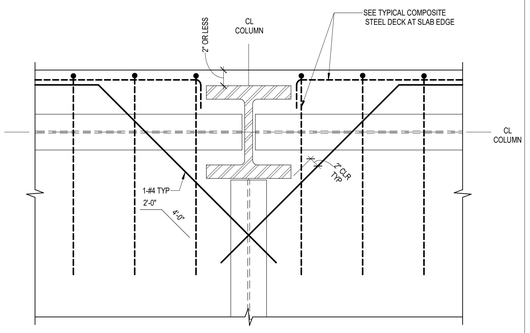


NOTES:

1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT

2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

1 TYPICAL SLAB REINFORCEMENT AT EDGE COLUMN, SLAB EDGE EXTENDS 2" OR MORE BEYOND FACE OF COLUMN
1" = 1'-0"



NOTES:

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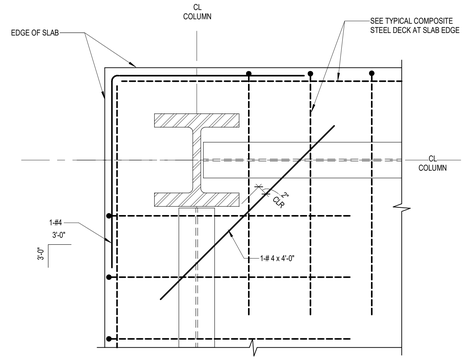
2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

2 TYPICAL SLAB REINFORCEMENT AT EDGE COLUMN, SLAB EDGE EXTENDS LESS THAN 2" BEYOND FACE OF COLUMN
1" = 1'-0"

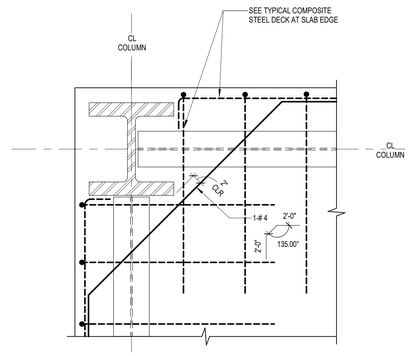


NOTES:

1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT

2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

3 TYPICAL SLAB REINFORCEMENT AT CORNER COLUMN, SLAB EDGE EXTENDS 2" OR MORE BEYOND FACE OF COLUMN
1" = 1'-0"



NOTES:

1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT

2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

4 TYPICAL SLAB REINFORCEMENT AT EDGE COLUMN, SLAB EDGE EXTENDS LESS THAN 2" BEYOND FACE OF COLUMN
1" = 1'-0"

NOTES:

1. SLAB REINFORCEMENT SHOWN TO BE PLACED IMMEDIATELY BELOW THE TYPICAL SLAB TOP BAR REINFORCEMENT

2. SEE TYPICAL DECK SUPPORT AT COLUMN DETAIL

5 TYPICAL SLAB REINFORCEMENT AT INTERIOR COLUMN
1" = 1'-0"

6 EDGE OF DECK AT EXTERIOR COLUMN
1" = 1'-0"

PLAN

7 EDGE OF DECK AT EXTERIOR CORNER COLUMN
1" = 1'-0"

PLAN

8 OPENINGS ADJACENT TO COLUMN
1" = 1'-0"

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CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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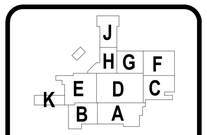
CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN



NORTH: PLAN TRUE

DISCIPLINE
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TYPICAL STEEL DECK DETAILS

S-506

0"
1"

STEEL JOIST FRAMING:

1. OPEN WEB STEEL JOISTS SHALL BE DESIGNED, MANUFACTURED AND ERECTED PER THE LATEST STEEL JOIST INSTITUTE (SJI) SPECIFICATIONS. JOISTS SHALL BE CAMBERED FOR DEAD LOAD. PROVIDE THE STANDARD SJI AMOUNT OF CAMBER UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE JOIST SUPPLIER SHALL ADJUST CAMBERS AT JOISTS ADJACENT TO EACH OTHER THAT HAVE VARYING LENGTHS AND AT JOISTS ADJACENT TO STEEL BEAMS WITH SET ELEVATIONS SO THAT THE ELEVATIONS FOR ADJACENT MEMBERS, PRIOR TO ERECTION OF DECK, DO NOT VARY BY MORE THAN 1".

2. STAGGER JOISTS ENDS AS REQUIRED (AT NARROW BEAMS) IN ORDER TO ACHIEVE 2 1/2 INCH MINIMUM BEARING. HORIZONTAL AND DIAGONAL BRIDGING SHALL BE PROVIDED PER SJI SPECIFICATIONS, AND SHALL BE WELDED TO STEEL BEAMS AND DECK SUPPORT ANGLES AT ENDS.

3. AT JOIST SPANS WHERE REQUIRED BY SJI, BOLTED DIAGONAL BRIDGING NEAREST THE CENTER OF THE SPAN SHALL BE INSTALLED AT EACH JOIST PRIOR TO THE SLACKENING OF HOIST LINES. FOR JOISTS THAT SPAN 40 FEET AND GREATER, THE JOIST SHALL HAVE ALL JOISTS BOLTED TO THE SUPPORT AT EACH END.

4. FOR THE THREE JOISTS NEAREST EACH COLUMN, THE BOTTOM CHORDS SHALL BE EXTENDED. BOTTOM CHORD EXTENSION CONNECTIONS SHALL NOT BE MADE UNTIL AFTER THE FULL DEAD LOAD IS APPLIED. A 6 INCH x 6 INCH STABILIZER PLATE SHALL BE PROVIDED IN ORDER TO RECEIVE THE JOIST BOTTOM CHORDS AT ALL COLUMN LOCATIONS. THE PLATE SHALL EXTEND A MINIMUM OF 3" BELOW THE BOTTOM OF THE BOTTOM CHORDS. PROVIDE A 13/16" DIAMETER HOLE IN THE STABILIZER PLATE FOR GUYING CABLES.

5. JOISTS THAT REQUIRE REPAIRS OR MODIFICATIONS DUE TO FABRICATION ERRORS OR TO DAMAGES CAUSED DURING THE SHIPPING PROCESS, SHALL BE REPLACED WITH NEW JOISTS.

6. ALL STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

7. PROVIDE STANDARD DEPTH OF BEARING FOR ALL JOISTS AS SHOWN BELOW UNLESS NOTED OTHERWISE ON THE DRAWING OR DICTATED BY JOIST SLOPE:
   A. ALL K SERIES: 2 1/2" DEEP
   B. LH SERIES WITH JOIST SECTION NUMBER LESS THAN 18: 3" DEEP
   C. ALL DLH SERIES JOIST AND LH SERIES JOIST WITH SECTION NUMBER GREATER THAN 18: 7 1/2" DEEP
   D. WHERE JOISTS WITH DIFFERENT SEAT DEPTHS BUT THE SAME TOP OF JOIST ELEVATION BEAR ON THE SAME SUPPORTING ELEMENT, PROVIDE THE DEEPER JOIST SEAT FOR ALL JOIST BEARING ON THAT ELEMENT UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE CONTRACT DOCUMENTS.

8. UNLESS INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS, WELD ALL JOIST SEATS TO THE SUPPORTING STRUCTURAL STEEL OR TO BEARING PLATES IN CONCRETE OR MASONRY AS FOLLOWS:
   A. K-SERIES JOISTS: 2 1/2 INCH LONG FILLET WELDS EACH SIDE OF JOIST SEAT WITH A THICKNESS EQUAL TO THE STEEL THICKNESS OF THE JOIST SEAT. (1/8" FILLET WELD MINIMUM)
   B. LH & DLH-SERIES JOISTS: 2 1/2 INCH LONG FILLET WELDS FOR JOIST SECTIONS NUMBER 02 THROUGH 17 AND 4 INCH LONG FILLET WELDS FOR JOIST SECTIONS NUMBER 18 THROUGH 25 EACH SIDE OF JOIST SEAT WITH A THICKNESS EQUAL TO THE STEEL THICKNESS OF THE JOIST SEAT. (3/16" FILLET WELD MINIMUM FOR JOISTS WITH SECTION NUMBER LESS THAN 07 AND 1/4" FILLET WELD MINIMUM FOR JOISTS WITH SECTION NUMBER 07 THROUGH 25).
   C. IN ADDITION TO THE WELDED CONNECTION FOR ALL JOISTS, PROVIDE AN ADDITIONAL BOLTED CONNECTION AT JOISTS WHERE REQUIRED BY OSHA STANDARDS OR THE STEEL JOIST INSTITUTE'S STANDARD SPECIFICATIONS.

9. WHERE JOISTS BEAR ON ONE SIDE OF A MASONRY WALL, JOIST SEATS SHALL BE OF SUFFICIENT DEPTH THAT WILL ALLOW THE JOIST REACTION TO ALIGN ON THE CENTER OF THE MASONRY WALL.

10. HANGERS SUPPORTING MECHANICAL EQUIPMENT, SPRINKLER LINES, ETC., FROM THE CHORD OF STEEL JOISTS, SHALL BE LOCATED AT THE PANEL POINTS OF THE JOISTS AND THE JOIST CHORD SHALL BE REINFORCED TO SUPPORT THE ADDITIONAL LOAD. DO NOT SUSPEND ANYTHING FROM JOIST BRIDGING AND JOIST BOTTOM CHORD. CLAMP TYPE HANGERS ARE NOT ALLOWED UNLESS SPECIFICALLY AUTHORIZED BY THE JOIST MANUFACTURER'S ENGINEER.

11. PROVIDE JOIST BRIDGING IN COMPLIANCE WITH THE CURRENT EDITION OF THE STEEL JOIST INSTITUTE'S STANDARD SPECIFICATIONS, UNLESS A MORE STRINGENT REQUIREMENT FOR BRIDGING IS REQUIRED BY THE CONTRACT DOCUMENTS.
   A. WHERE THE SPECIFIED WIND UPLIFT LOAD (REF GENERAL NOTES) RESULTS IN COMPRESSION IN THE JOIST BOTTOM CHORD, PROVIDE ADDITIONAL BRIDGING AS REQUIRED TO BRACE THE BOTTOM CHORD.
   B. WHERE JOISTS ARE EXPOSED, CONTRACTOR SHALL COORDINATE BRIDGING WITH REQUIREMENTS OF OTHER TRADES SUCH AS MECHANICAL DUCTS, LIGHTING, ETC. IF NECESSARY FOR COORDINATION WITH OTHER TRADES, PROVIDE ADDITIONAL ROWS OF BRIDGING ABOVE THE MINIMUM REQUIREMENTS OF THE STEEL JOIST INSTITUTE'S STANDARD SPECIFICATIONS.
   C. AT LOCATIONS WHERE BOTTOM CHORD HORIZONTAL BRIDGING IS DISCONTINUED FOR ONE JOIST SPACING FOR ANY REASON, PROVIDE DIAGONAL BRIDGING BETWEEN ADJACENT TWO JOISTS ON EACH SIDE.

12. SEE ROOF PLANS FOR JOIST TOP CHORDS TO BE DESIGNED AS DRAG STRUTS FOR HORIZONTAL FORCES (NOTED H = _____KIPS) IN COMBINATION WITH GRAVITY LOADS. THIS FORCE MAY BE EITHER COMPRESSION OR TENSION. STRESSES MAY NOT BE INCREASED FOR WIND.

13. IF BEAM FLANGES ARE NOT WIDE ENOUGH TO ACCOMMODATE BEARING SEATS FROM BOTH SIDES, JOISTS MAY BE OFFSET AND SEATS OVERLAPPED. CONTRACTOR TO COORDINATE DECK LAYOUT SO END LAPS ALWAYS OCCUR OVER JOISTS. JOISTS ON COLUMN LINES MUST STILL BRACE COLUMNS WITH EXTENDED BOTTOM CHORDS.

14. WHERE JOIST TOP CHORD EXTENSIONS ARE INDICATED, DESIGN THE EXTENSION FOR A CONCENTRATED DEAD LOAD AT THE END OF 150 POUNDS AND A UNIFORM LOAD EQUAL TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS WITH THE EXTENSIONS. SIZE EXTENSIONS TO LIMIT DEFLECTION TO THE LESSER OF 3/8" OR L/180 FOR LIVE LOAD OR L/120 FOR TOTAL LOAD, WHERE "L" IS THE LENGTH OF THE EXTENSION.

15. STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE DESIGNED FOR A NET UPLIFT EQUAL TO THE UPWARD COMPONENT AND CLADDING WIND PRESSURES SHOWN ON THE STRUCTURAL DRAWINGS MINUS 3 PSF OF DEAD LOAD(0.6D). STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL ALSO BE DESIGNED FOR AN ADDITIONAL DOWN WIND FORCE RESULTING FROM POSITIVE WIND ROOF COMPONENTS AND CLADDING PRESSURE AS SHOWN ON THE STRUCTURAL DRAWINGS. DOWN FORCE WIND LOADING IN COMBINATION WITH DEAD AND LIVE LOADS MAY CONTROL THE DESIGN OF THESE ELEMENTS.

16. PROVIDE ALL NECESSARY ERECTION BOLTS, STABILIZER PLATES, BOTTOM CHORD CONNECTIONS, ERECTION BRIDGING, ETC., IN COMPLIANCE WITH OSHA REGULATIONS GOVERNING SAFETY IN THE WORKPLACE. CONNECTION DETAILS SHOWN ARE ADEQUATE FOR FINAL IN PLACE CONDITIONS AND DO NOT NECESSARILY PROVIDE FOR CONSTRUCTION SAFETY.

17. ALL STEEL SHALL BE DOMESTICALLY (INCLUDING CANADA) MILLED AND FABRICATED. FOREIGN STEEL SHALL NOT BE UTILIZED WITH OUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER. THE APPROVAL PROCESS SHALL TAKE PLACE DURING BIDDING TIME. ANY REQUEST TO UTILIZE FOREIGN STEEL MADE AFTER BIDDING SHALL BE REJECTED.

18. OPEN WEB STEEL JOIST SUPPLIER IS TO SUBMIT SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF A LICENSED ENGINEER IN THE STATE IN WHICH THE PROJECT IS BEING PERFORMED TO THE ARCHITECT/ENGINEER FOR REVIEW FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. SEE THE SPECIFICATIONS FOR OTHER SUBMITTAL REQUIREMENTS.

19. FOR OPEN WEB JOISTS, SOME U.L. RATINGS REQUIRE SPECIAL SIZES. THE JOIST MANUFACTURER SHALL VERIFY AND RE-DESIGN ANY/ALL JOISTS AS REQUIRED, TO MEET THE U.L. FIRE RESISTANCE DIRECTORY.

20. GENERAL RTU WEIGHTS AND LOCATIONS ARE PROVIDED IN THE CONTRACT DOCUMENTS. THE JOIST SIZES DESIGNATED ON THE FRAMING PLAN AND THE JOIST GIRDER PANEL POINT LOADS DO NOT TAKE INTO ACCOUNT THE RTU WEIGHTS. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THE WEIGHT OF THE RTU'S IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS AT THE RTU LOCATIONS. JOISTS SUPPORTING RTU'S SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. THE RTU WEIGHTS SHALL ALSO BE ADDED TO THE JOIST GIRDER PANEL POINT LOADS PROVIDED IN THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE THE FINAL RTU LOCATIONS, WEIGHTS AND SIZES WITH THE JOIST MANUFACTURER AND NOTIFY THE ENGINEER OF ANY CHANGES FROM WHAT IS INDICATED IN THE CONTRACT DOCUMENTS. ROOF MOUNTED MECHANICAL UNIT LOCATIONS ARE SHOWN ON THE ROOF FRAMING PLANS. PROVIDE ADDITIONAL STEEL FRAMING, AS DETAILED, FOR SUPPORT OF RTU CURBS AND PROVIDE DECK SUPPORT ANGLES AT ALL ROOF OPENINGS.

21. UNLESS INDICATED OTHERWISE, THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS AND THE JOIST GIRDER PANEL POINT LOADS DO NOT TAKE INTO ACCOUNT THE WEIGHT OF VARIOUS ITEMS SUCH AS, BUT NOT LIMITED TO, OPERABLE PARTITIONS, BASKETBALL GOALS, SCORE BOARDS, MECHANICAL EQUIPMENT, MECHANICAL EQUIPMENT SUPPLY AND RETURN PIPING, ELECTRICAL EQUIPMENT, ETC. THE MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THE WEIGHT OF THESE ITEMS IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS AT THE LOCATION OF THESE ITEMS. JOISTS SUPPORTING THESE ITEMS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. THE ITEM WEIGHTS SHALL ALSO BE ADDED TO THE JOIST GIRDER PANEL POINT LOADS PROVIDED IN THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF THESE ITEMS, AND THEIR WEIGHTS AND SIZES WITH THE JOIST MANUFACTURER AND NOTIFY THE ENGINEER OF ANY CHANGES FROM WHAT IS INDICATED ON THE FRAMING PLANS.

22. THE JOIST DESIGNATED ON THE FRAMING PLANS AND THE JOIST GIRDER PANEL POINT LOADS DO NOT TAKE INTO ACCOUNT THE COLUMN LOADS ASSOCIATED WITH THE ROOF SCREENS INDICATED IN THE CONTRACT DOCUMENTS. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS AND JOIST GIRDERS TO SUPPORT THE CONCENTRATED LOADS AND MOMENTS INDICATED IN THE ROOF SCREEN DETAILS AT EACH ROOF SCREEN COLUMN IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS AT THE ROOF SCREEN COLUMN LOCATIONS. JOISTS SUPPORTING ROOF SCREEN COLUMNS SHALL BE FABRICATED SUMMETRICALLY ABOUT THEIR CENTERLINE. THE ROOF SCREEN COLUMN LOADS SHALL ALSO BE ADDED TO THE JOIST GIRDER PANEL POINT LODS PROVIDED IN THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE THE FINAL ROOF SCREEN COLUMN LOCATIONS WITH THE JOIST MANUFACTURER AND NOTIFY THE ENGINEER OF ANY CHANGES FROM WHAT IS INDICATED ON THE FRAMING PLANS.

23. IN ADDITION TO AND SIMULTANEOUSLY WITH OTHER SPECIFIED LOADS, DESIGN JOISTS AND JOSIT GIRDERS FOR THE FOLLOWING CONCENTRATED LOADS:
   A. DESIGN JOISTS AND JOIST GIRDERS FOR A CONCENTRATED LOAD AND ANY OTHER SPECIFIED LOADS AT ANY ONE TOP OR BOTTOM CHORD PANEL POINT AS FOLLOWS:
      1. FLOOR AND ROOF JOISTS: 300 POUNDS
      2. FLOOR AND ROOF JOIST GIRDERS: 500 POUNDS
   B. DESIGN CHORDS FOR SHEARS AND MOMENTS INDUCED IN THE CHORDS AS A RESULT OF ALL OR A PORTION OF THESE CONCENTRATED LOADS AND ANY OTHER SPECIFIED LOADS BEING LOCATED AT ANY POINT BETWEEN ANY TWO ADJACENT PANEL POINTS AS FOLLOW:
      1. FLOOR AND ROOF JOISTS:
         a. TOP CHORD: 300 POUNDS
         b. BOTTOM CHORD: 50 POUNDS
      2. FLOOR AND ROOF JOIST GIRDERS:
         a. TOP CHORD: 500 POUNDS
         b. BOTTOM CHORD: 500 POUNDS
   C. ALL LOADS HANGING FROM THE JOIST BOTTOM CHORD SHALL BE CENTERED ON THE JOIST CHORD AND ATTACHED TO ALL ELEMENTS OF MULTI-ELEMENT BOTTOM CHORDS. CLAMP TYPE HANGERS ARE NOT ALLOWED UNLESS SPECIFICALLY AUTHORIZED BY THE JOIST MANUFACTURER'S ENGINEER.

24. UNLESS INDICTED OTHERWISE, SPECIAL JOISTS SUPPORTING OPERABLE PARTITIONS SHALL BE DESIGNED FOR A MAXIMUM DEFLECTIONS DUE TO THE LIVE LOAD AND OPERABLE PARTITION WEIGHT OF L/360. HOWEVER, THE CONTRACTOR SHALL COORDINATE WITH THE SELECTED OPERABLE PARTITION MANUFACTURER TO DETERMINE IF A MORE RESTRICTIVE DEFLECTION LIMIT IS REQUIRED BY THE MANUFACTURER FOR INSTALLATION PURPOSES AND TO MAINTAIN PROPER OPERATION OF THE PARTITION.

25. THE FRAMING PLANS AND DETAILS IN THE CONTRACT DRAWINGS MAY SHOW THE JOIST ALIGNED IN ADJACENT SPANS WITH BUTTED SEATS. IF THE SUPPORTING STEEL BEAM OR EMBEDDED BEARING PLATE IN THE CONCRETE/MASONRY WALL IS NOT WIDE ENOUGH TO ALLOW BUTTED SEATS AND MEET THE MINIMUM STEEL JOIST INSTITUTE SPECIFICATIONS FOR MINIMUM BEARING LENGTH, THEN THE SEATS SHALL BE LAPPED. THE CONTRACTOR SHALL COORDINATE THE FINAL JOIST LOCATIONS AND THE METAL DECK SPANS.

26. THE JOIST DEPTH AT THE ENDS OF JOIST DESIGNATED AS DOUBLE OR TRIPLE PITCHED SHALL BE THE DEPTH SPECIFIED ON THE FRAMING PLANS. THE DEPTH AT THE RIDGE OF THESE JOIST SHALL BE THE SPECIFIED DEPTH PLUS THE CHANGE IN TOP OF STEEL ELEVATION BETWEEN THE END OF THE JOIST AND THE RIDGE.

METAL ROOF DECKING:

1. METAL ROOF DECK OF SIZE NOTED ON PLANS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

METAL DECK SCHEDULE										METAL DECK CONNECTION SCHEDULE		
										FASTEN DECK TO SUPPORT MEMBERS		SIDELAP FASTENERS
DECK DESIGNATION	DECK GAUGE	SDI DECK TYPE	DECK DEPTH (IN)	Ie+ (IN4)	Ie- (IN4)	Se+ (IN3)	Se- (IN3)	Fy (KSI)	W/N	ATTACHMENT PATTERN (W/N)	SUPPORT FASTENERS	
1.0 CSV	22	CONFORM	0.9375	0.062	0.062	0.121	0.120	60	36/6	5/8" PUDDLE WELD		6#10 TEK SCREWS

Ie+: POSITIVE EFFECTIVE MOMENT OF INERTIA
Ie-: NEGATIVE EFFECTIVE MOMENT OF INERTIA
Se+: POSITIVE EFFECTIVE SECTION MODULUS
Se-: NEGATIVE EFFECTIVE SECTION MODULUS
Fy: YIELD STRENGTH
W/N: SHEET WIDTH / NUMBER OF CONNECTIONS EACH SHEET

2. SEE ROOF FRAMING PLAN FOR ROOF DECK SIZES.

3. THE METAL ROOF DECK ON THIS PROJECT IS REQUIRED TO PERFORM AS A STRUCTURAL DIAPHRAGM, ALL WELDS AND SCREWS ARE CRITICAL TO THE SUCCESSFUL PERFORMANCE OF THE DIAPHRAGM.

4. STEEL ROOF DECK (WITH LIGHTWEIGHT INSULATION FILL):
   4.1. LIGHTWEIGHT INSULATION CONCRETE FILL USED OVER ROOF DECKING SHALL HAVE A MIX RATIO OF ONE SACK PORTLAND CEMENT TO SIX CUBIC FEET OF LIGHTWEIGHT CONCRETE AGGREGATE. PERLITE OR VERMICULITE AGGREGATE MUST CONFORM TO ASTM C332. PERLITE SHALL HAVE A MAXIMUM WET DENSITY OF 42 POUNDS PER CUBIC FOOT (PCF), AND VERMICULITE SHALL HAVE A MAXIMUM WET DENSITY OF 60 PCF AT THE POINT OF DICHARGE. BOTH SHALL HAVE A MAX DRY DENSITY OF 32 PCF, AND MUST HAVE A COMPRESSIVE STRENGTH (f'c) OF 300 PSI IN 28 DAYS.
   4.2. ROOF DECK SHALL BE CORRUGATED DECK CONFORMING TO ASTM A611 OR A653-99 WITH Fy=60 KSI. DECK SHALL BE GALVANIZED, CONFORMING TO ASTM A924, WITH A MINIMUM ZINC COATING CLASS OF G90 PER ASTM A653-99. DECK SHALL BE 22 GAGE METAL FORMS, 1" DEEP WITH VENTING SLOTS IN VALLEY OF EACH CORRUGATION. DECK SHALL HAVE A MINIMUM SECTION MODULUS OF 0.130 INCHES CUBED PER FOOT OF WIDTH. FASTEN SIDELAPS WITH #10 TEK SCREWS. WELD DECK TO EACH STRUCTURAL SUPPORTING MEMBER AT EVERY OTHER CORRUGATION AT END LAPS AND AT INTERMEDIATE SUPPORTS. AT SPANDREL BEAMS AND DECK SUPPORT ANGLES, AND FOR A 20'-0" SQUARE AREA AT ROOF CORNERS, THE DECK SHALL BE WELDED TO ALL SUPPORTS AT EVERY CORRUGATION OR 6" ON CENTER MAXIMUM.
   4.3. THE THICKNESS OF THE LIGHTWEIGHT CONCRETE FILL SHALL BE AS SPECIFIED BY THE ARCHITECT. HOWEVER, THE THICKNESS SHALL NOT EXCEED 2.5 INCHES. ROOF SLOPES THAT ARE NOT REFLECTED IN THE SLOPE OF THE STRUCTURAL FRAMING, SUCH AS AT SMALL AREAS, CRICHET AND THE EDGES OF THE ROOF, SHALL BE IMPLEMENTED BY VARYING THE INSULATION THICKNESS IN LIEU OF VARYING THE THICKNESS OF THE LIGHTWEIGHT CONCRETE FILL. DO NOT EXCEED THE MAXIMUM SPECIFIED THICKNESS OF LIGHTWEIGHT CONCRETE FILL.

5. THE STEEL DECK SHALL ALWAYS BE INSTALLED WITH THE DIRECTION OF FLUTES PERPENDICULAR TO THE FRAMING MEMBERS. THE DECK SHALL BE CUT TO ENSURE A MINIMUM OF THREE SPANS PER DECK WIDTH.

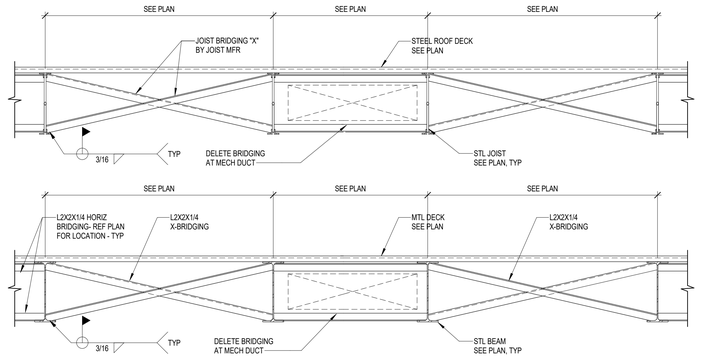
6. IN ADDITION TO THE DECK CONNECTIONS INDICATED IN THE CONNECTION SCHEDULE, THE DECK SHALL BE CONNECTED AT EACH FLUTE AT EACH SUPPORT WITHIN THE FIRST 10 FEET FROM THE BUILDING PERIMETER.

7. ROOF DECK SHALL BE CONTINUOUS OVER FOUR OR MORE SUPPORTS. AT LOCATIONS WHERE SINGLE OR DOUBLE SPAN CONDITIONS OCCUR, THE CONTRACTOR SHALL EITHER SHORE THE DECK, OR ADJUST THE GAGE THICKNESS OF THE DECK IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DECK SHALL BE DESIGNED TO PROVIDE EQUIVALENT OR GREATER LOAD CAPACITY AS THE SPECIFIED DECK SUPPORT OVER FOUR SUPPORTS.

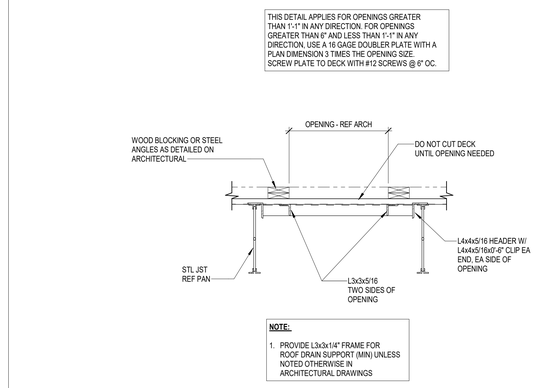
8. COORDINATE METAL DECK LENGTHS WITH THE FINAL JOIST AND BEAM LAYOUT. THE FINAL JOIST AND BEAM LAYOUT CAN BE DIFFERENT THAN THAT SHOWN IN THE CONTRACT DRAWINGS DEPENDING ON WHETHER THE JOIST BEARING SEATS ARE BUTTED OR LAPPED. THE JOIST LOCATIONS SHOWN IN THE CONTRACT DRAWINGS DO NOT ACCOUNT FOR THE SMALL DIFFERENCE IN JOIST LOCATION DUE TO THE VARIOUS JOIST BEARING CONDITIONS THAT COULD EXIST IN THE FIELD.

9. SUSPENDED CEILING, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECK.

10. ACOUSTICAL "DOVETAIL" METAL ROOF DECK SHALL BE MANUFACTURED BY EPIC METALS CORPORATION (EPICORE) OR CSI METAL DECK GROUP (VERSA DECK). REFER TO THE ROOF FRAMING PLAN FOR DECK TYPE AND LOCATION.

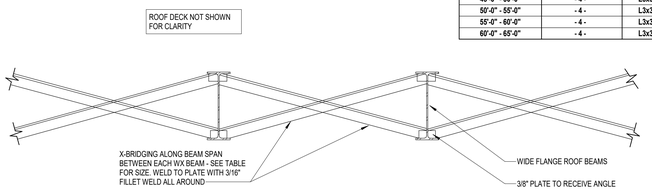


1 TYPICAL BRIDGING
NO SCALE

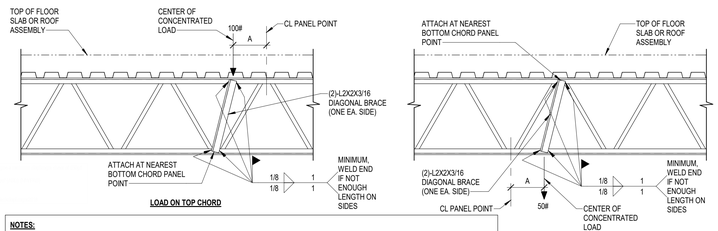


2 TYPICL ROOF OPENING DETAIL
NO SCALE

PURLIN SPAN LENGTH (FEET)	# OF ROWS OF BRIDGING	BRIDGING ANGLE SIZE
LESS THAN 10'-0"	- 0 -	L2x2x1/4"
10'-0" - 15'-0"	- 1 -	L2x2x1/4"
15'-0" - 20'-0"	- 1 -	L2x2x1/4"
20'-0" - 25'-0"	- 2 -	L2x2x1/4"
25'-0" - 30'-0"	- 2 -	L2x2x1/4"
30'-0" - 35'-0"	- 2 -	L2x2x1/4"
35'-0" - 40'-0"	- 3 -	L3x3x1/4"
40'-0" - 45'-0"	- 4 -	L3x3x1/4"
45'-0" - 50'-0"	- 4 -	L3x3x1/4"
50'-0" - 55'-0"	- 4 -	L3x3x1/4"
55'-0" - 60'-0"	- 4 -	L3x3x1/4"
60'-0" - 65'-0"	- 4 -	L3x3x1/4"



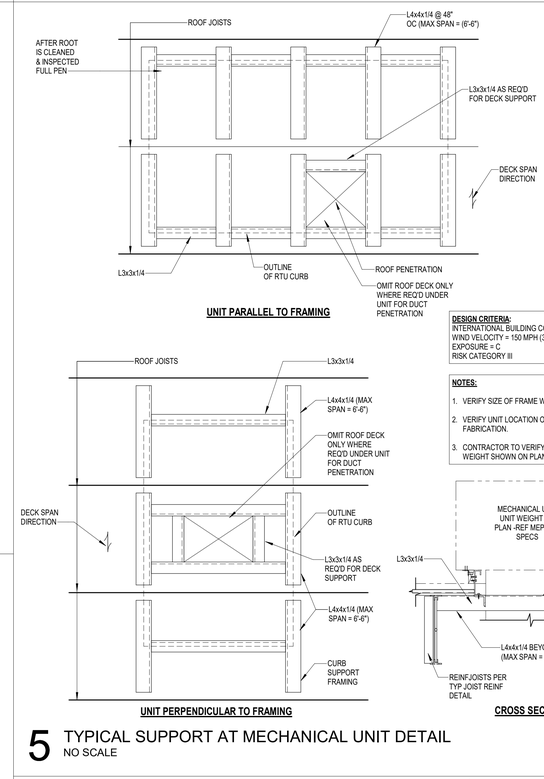
3 TYPICAL UPLIFT BRIDGING DETAIL
3/4" = 1'-0"



NOTES:
1. THIS DETAIL IS APPLICABLE TO ALL CONCENTRATED LOADS THAT ARE ATTACHED TO JOIST(S) WHETHER INDICATED ON THE STRUCTURAL DRAWINGS OR NOT. EXAMPLES OF THESE LOADS ARE:
   a. HANGING LOAD, PARTITION THAT EXCEEDS 150#
   b. HANGING PLUMBING, MECH STEEL PIPE 4" DIA OR LARGER
   c. HANGING BASKETBALL GOALS
   d. MECHANICAL UNITS
   e. HEAVY LIGHTS
2. ADDITIONAL ANGLES SHALL BE PLACED AT PANEL POINTS.
3. DIAGONAL BRACE IS NOT REQUIRED FOR "A" LESS THAN THREE INCHES.

USE FOR LOADS IN EXCESS OF THOSE SHOWN FOR TOP & BOTTOM CHORDS

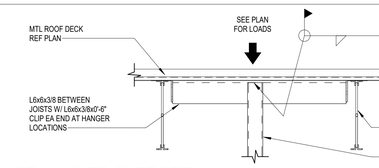
4 TYPICAL JOIST STIFFENING DETAIL AT CONCENTRATED LOADS
NO SCALE



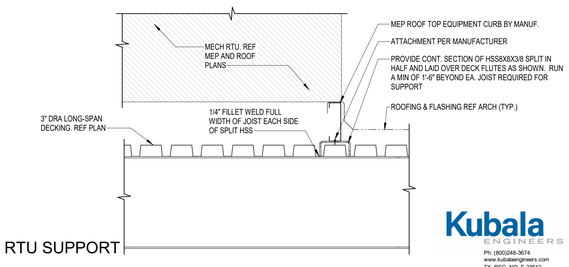
DESIGN CRITERIA:
INTERNATIONAL BUILDING CODE 2015
WIND VELOCITY = 150 MPH (3-SEC)
EXPOSURE = C
RISK CATEGORY III

NOTES:
1. VERIFY SIZE OF FRAME W/ MECH CONTRACTOR.
2. VERIFY UNIT LOCATION ON SITE PRIOR TO FRAME FABRICATION.
3. CONTRACTOR TO VERIFY UNIT WEIGHT WITH WEIGHT SHOWN ON PLAN.

5 TYPICAL SUPPORT AT MECHANICAL UNIT DETAIL
NO SCALE



6 DETAIL AT ROOF HANGER SUPPORT
NO SCALE



7 TYPICAL RTU SUPPORT
3/4" = 1'-0"

Kubala ENGINEERS
Ph: (800)246-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

PBK

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EDDELMAN GROUP
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STRUCTURAL
KUBALA ENGINEERS
T: 713-840-7343
MEP/T
LEAP
T: 713-540-3300
ACOUSTIC
MCKAY
T: 512-476-3464
FOOD SERVICE
RSC
T: 281-256-2223
POOL/AQUATICS
CONSULTANT NAME
T: 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT

KEY PLAN
J H G F K E D C B A
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

GENERAL STEEL NOTES AND TYPICAL DETAILS

S-507

ISSUE FOR PROPOSAL

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/ST22_220023_CFISD_Arnold MS.rvt
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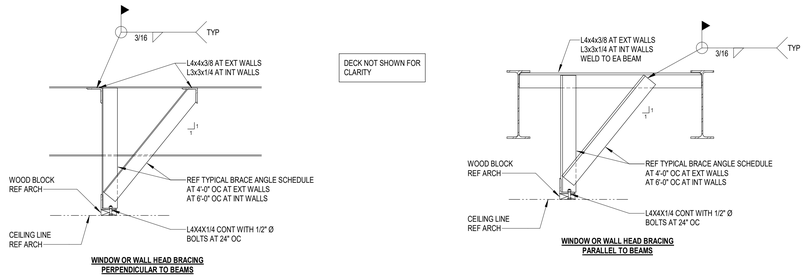
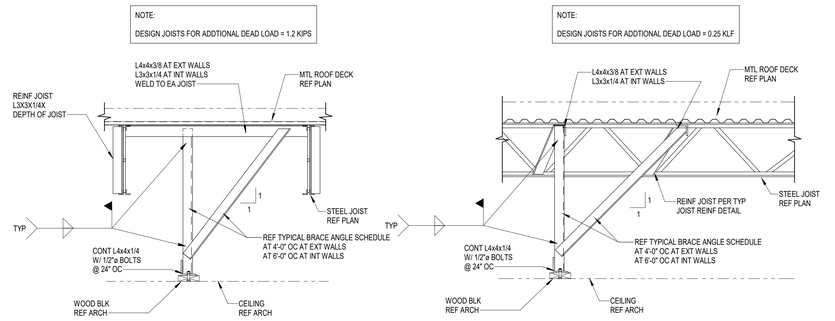
DRAWN BY: BJ
Plot Stamp: 2/17/2025 9:24:57 AM

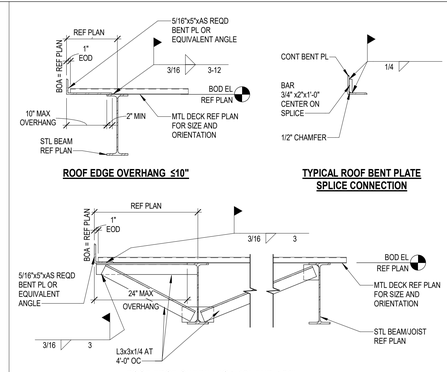
ISSUE FOR PROPOSAL



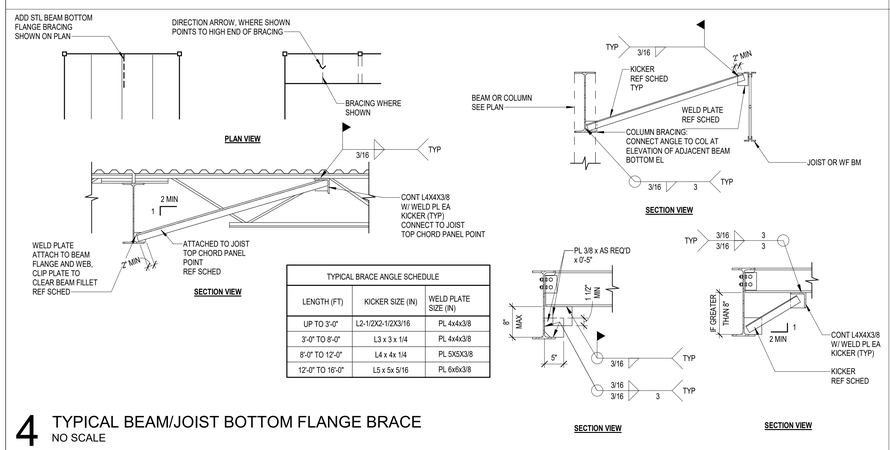
1 TYPICAL WINDOW OR WALL HEAD BRACING AT BEAMS
NO SCALE



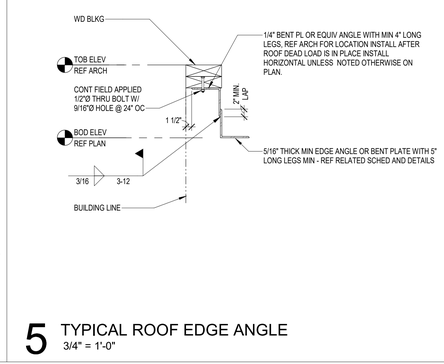
2 TYPICAL WINDOW OR WALL HEAD BRACING AT JOISTS
NO SCALE



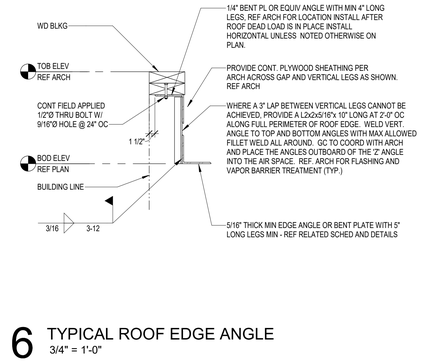
3 TYPICAL ROOF EDGE DETAIL
3/4" = 1'-0"



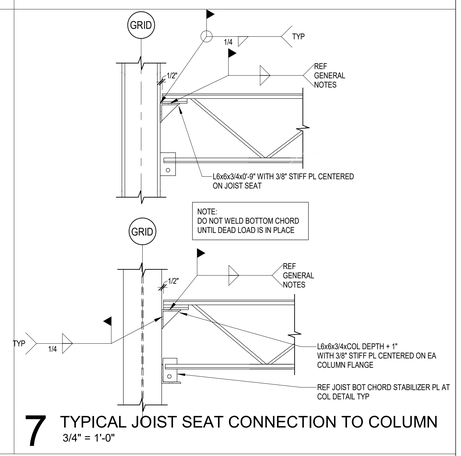
4 TYPICAL BEAM/JOIST BOTTOM FLANGE BRACE
NO SCALE



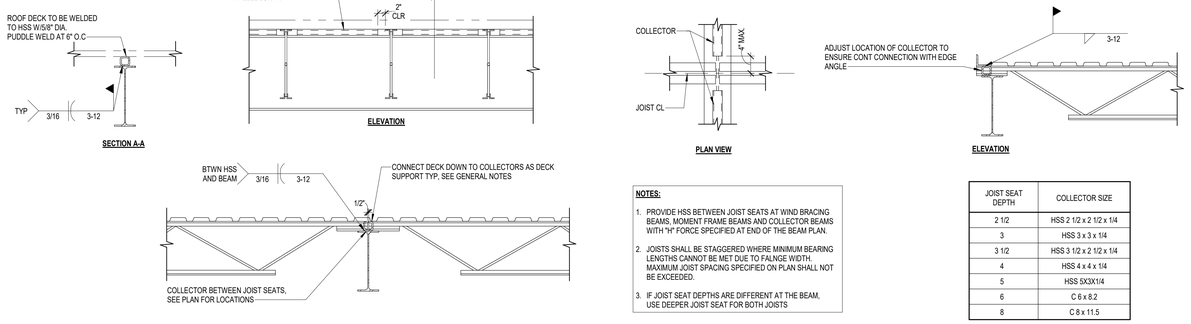
5 TYPICAL ROOF EDGE ANGLE
3/4" = 1'-0"



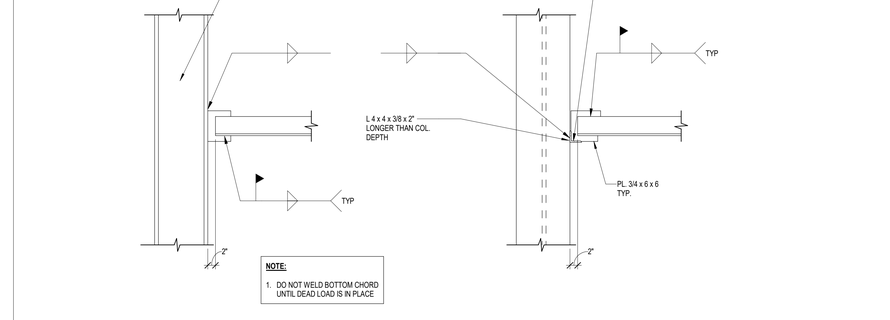
6 TYPICAL ROOF EDGE ANGLE
3/4" = 1'-0"



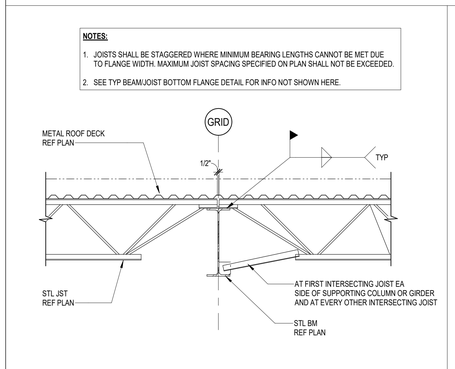
7 TYPICAL JOIST SEAT CONNECTION TO COLUMN
3/4" = 1'-0"



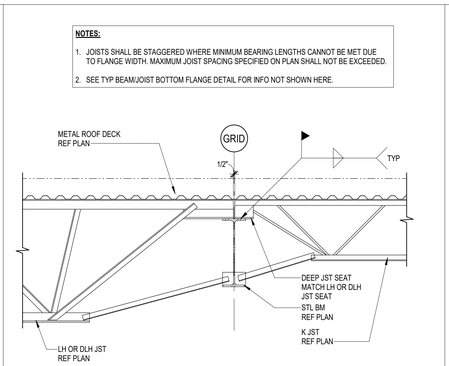
8 TYPICAL DIAPHRAGM SHEAR COLLECTOR AT STEEL BEAM
NO SCALE



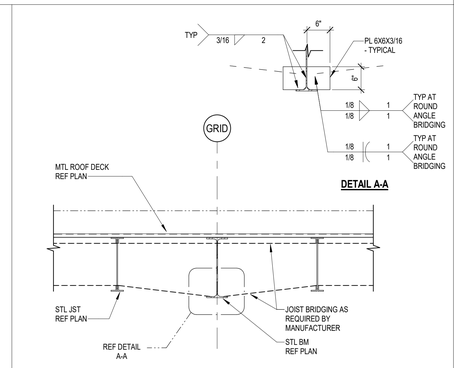
9 TYPICAL JOIST BOTTOM CHORD CONNECTION AT COLUMN
NO SCALE



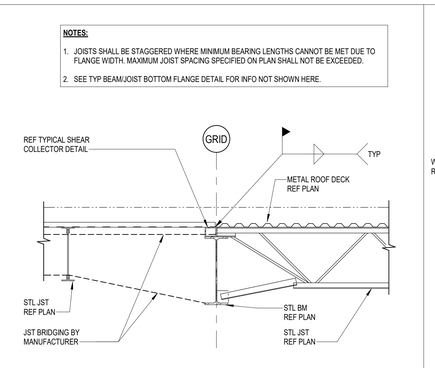
10 TYPICAL INTERIOR DETAIL AT K JOIST BEARING
NO SCALE



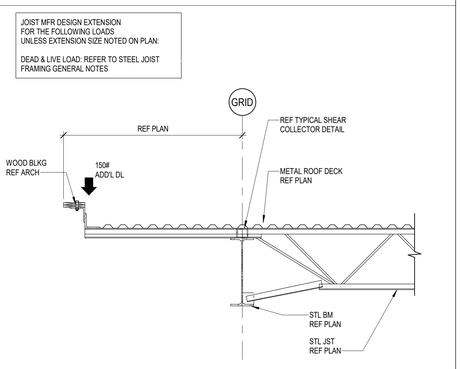
11 TYPICAL INTERIOR DETAIL AT LH AND DLH JOIST BEARING
NO SCALE



12 TYPICAL JOIST BRIDGING CONNECTION TO INTERIOR STEEL BEAM
NO SCALE



13 TYPICAL CHANGE IN DECK DIRECTION AT STEEL BEAM
NO SCALE



14 TYPICAL ROOF JOIST EXTENTION
NO SCALE

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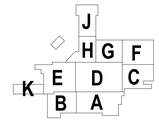
TRP
T: 281-356-2323
POOL/AQUATICS
CONSULTANT NAME
T: 000-000-0000

Arnold Middle School
11111 TEL GE RD,
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

STEEL TYPICAL DETAILS (CONT.)

S-508

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects\ST23_220023_CFISD_Arnold MS.rvt
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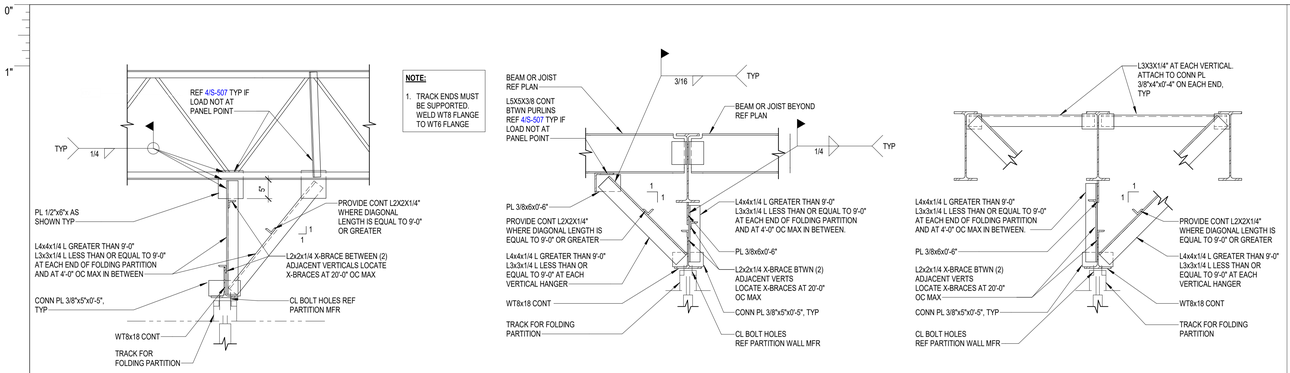
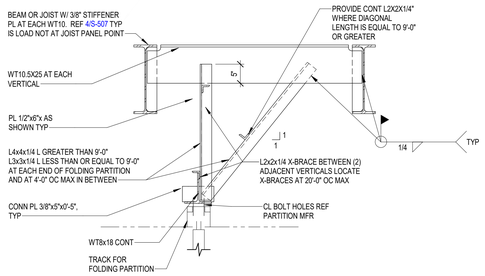
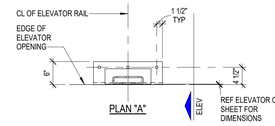




1 FOLDING PARTITION SUPPORT
3/4" = 1'-0"

ELEVATOR BEAM / GUIDE RAIL SUPPORT SCHEDULE			
ELEVATORS	FLOORS	DIVIDER BEAM	GUIDE RAIL SUPPORT
TYP	ALL LEVELS	HSS8x4x1/4	HSS10x4x1/2

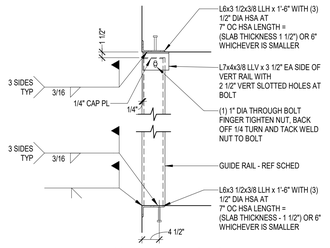


TYPICAL ELEVATOR GUIDE RAIL CONNECTION TO CONCRETE

NOTE TO CONTRACTOR:
CONTRACTOR TO COORDINATE WITH ELEVATOR CUTSHEETS

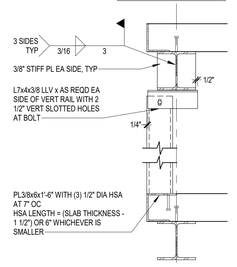
NOTE:
REF ELEVATION "C" FOR INFO NOT SHOWN

ON DIVIDER BEAM ELEVATION "B"



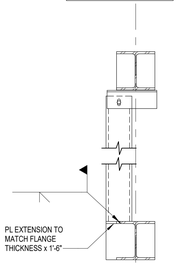
AT CONCRETE FRAMING EDGE ELEVATION "C"

NOTE:
REF ELEVATION "E" FOR INFO NOT SHOWN



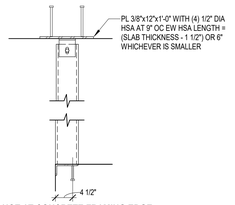
AT STEEL EDGE BEAM WITH SLAB ELEVATION "E"

NOTE:
REF ELEVATION "E" FOR INFO NOT SHOWN



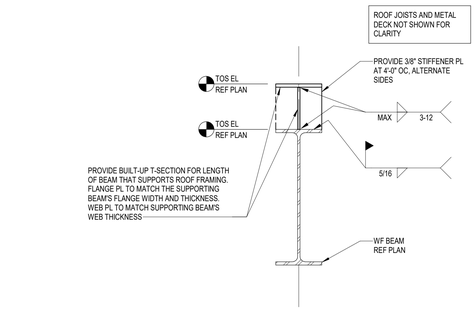
AT STEEL EDGE BEAM WITHOUT SLAB ELEVATION "F"

NOTE:
REF ELEVATION "C" FOR INFO NOT SHOWN

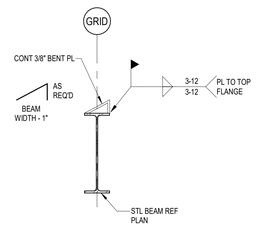


NOT AT CONCRETE FRAMING EDGE ELEVATION "D"

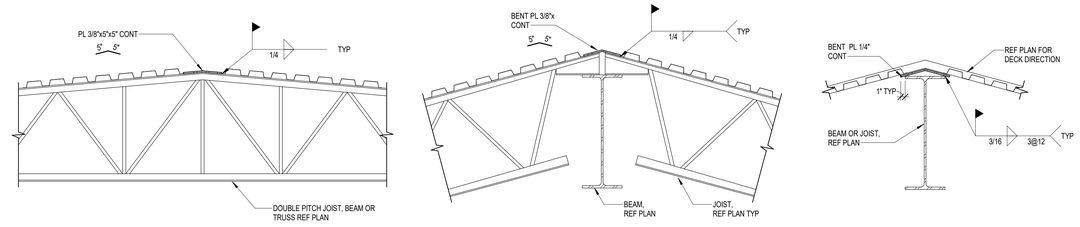
2 TYPICAL ELEVATOR GUIDERAIL SUPPORT DETAILS
3/4" = 1'-0"



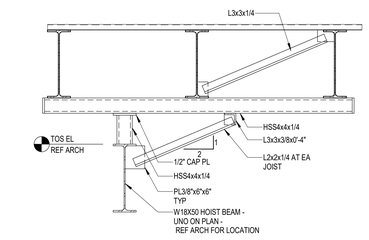
3 BUILT-UP WF BEAM
1 1/2" = 1'-0"

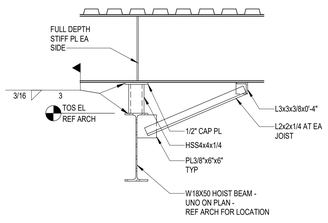


4 SLOPED DECK SUPPORT
3/4" = 1'-0"

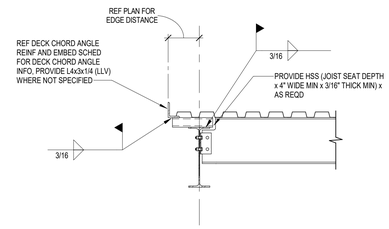


5 TYPICAL BENT PLATE AT RIDGE
3/4" = 1'-0"

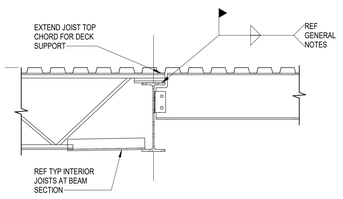




6 TYPICAL HOIST BEAM SUPPORT
3/4" = 1'-0"

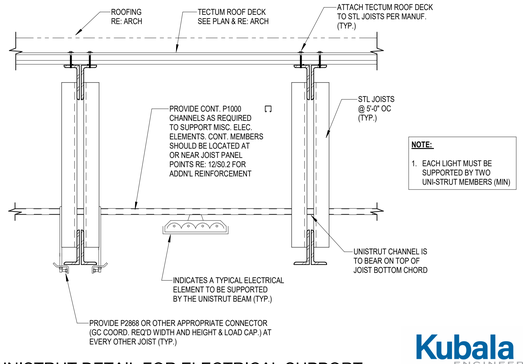


7 TYPICAL DECK SPACER AT STEEL BEAM
3/4" = 1'-0"



EXTENDED JOIST TOP CHORD FOR DECK SUPPORT

8 TYPICAL JOIST/BEAM AT BEAM
3/4" = 1'-0"



9 UNISTRUT DETAIL FOR ELECTRICAL SUPPORT
3/4" = 1'-0"

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CONSULTANT NAME
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Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J H G F K E D C B A
KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

STEEL TYPICAL DETAILS (CONT.)

S-509

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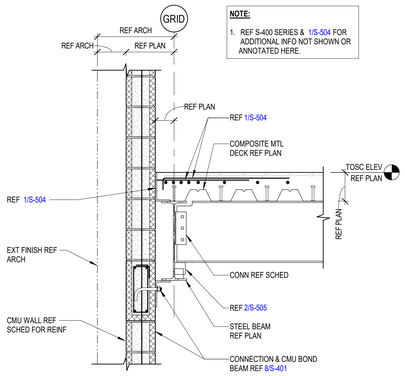
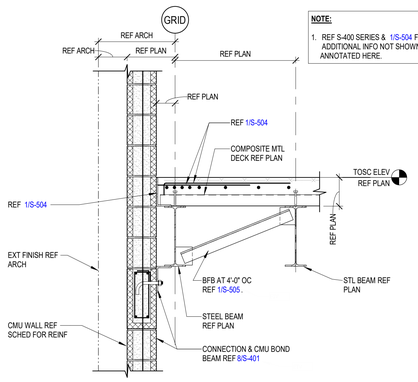
0"
1"

COMPOSITE FRAMING DETAILS
S-510
FOR BLUEBEAM LABELING/OCR:

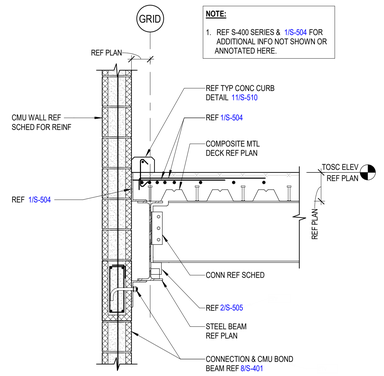
ISSUE FOR PROPOSAL



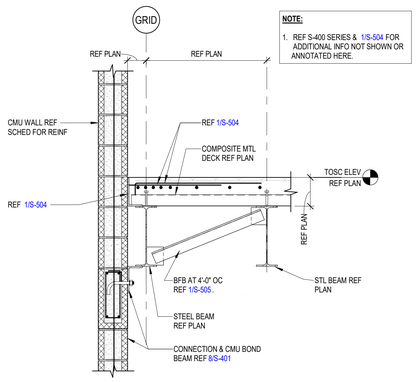
1 EXTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



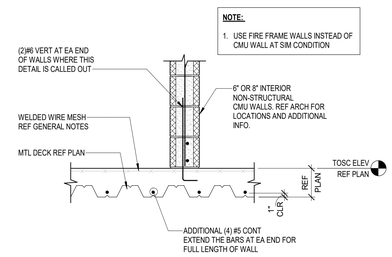
2 EXTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



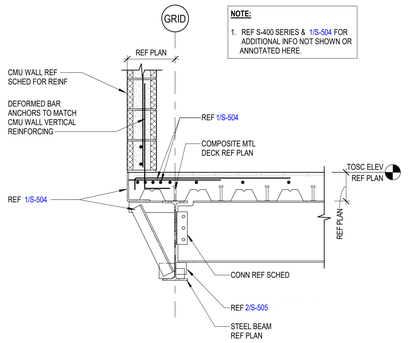
3 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



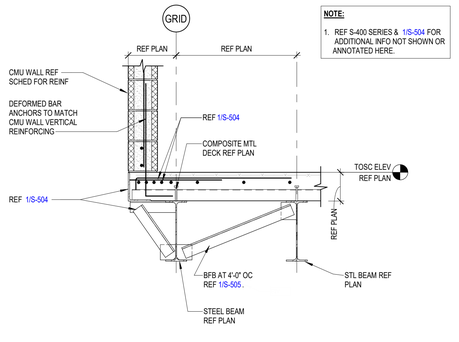
4 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



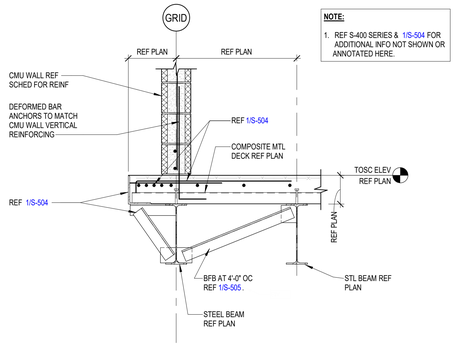
5 TYPICAL ADDITIONAL REINF UNDER INT. WALLS PARALLEL TO DECK SPAN
3/4" = 1'-0"



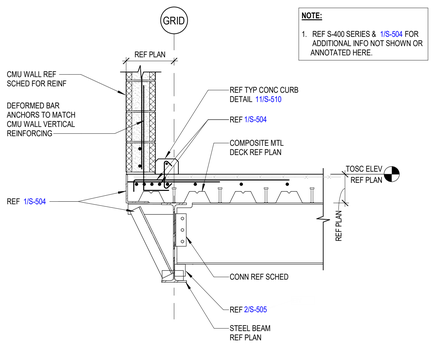
6 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



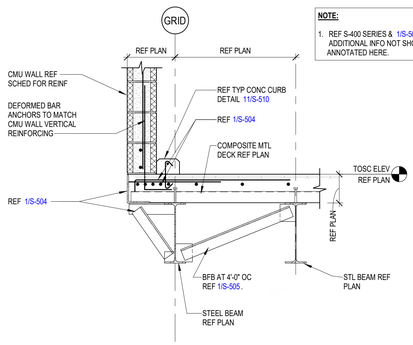
7 INTERIOR FLOOR EDGE AT CMU WALL
3/4" = 1'-0"



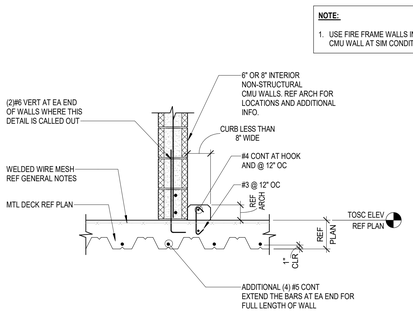
8 CMU BEARING ON STEEL BEAM DETAIL
3/4" = 1'-0"



9 BEAM AT CMU WALL W/CONC CURB
3/4" = 1'-0"



10 BEAM AT CMU WALL W/CONC CURB
3/4" = 1'-0"



11 TYPICAL CURB AT COMPOSITE FLOOR
3/4" = 1'-0"

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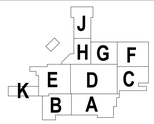
CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

COMPOSITE FRAMING DETAILS

S-510

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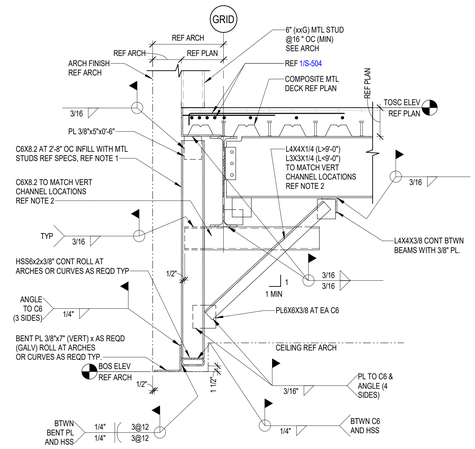
COMPOSITE FRAMING DETAILS (CONT.)

S-511

FOR BLUEBEAM LABELING/OCR:

0"

1"



NOTES:

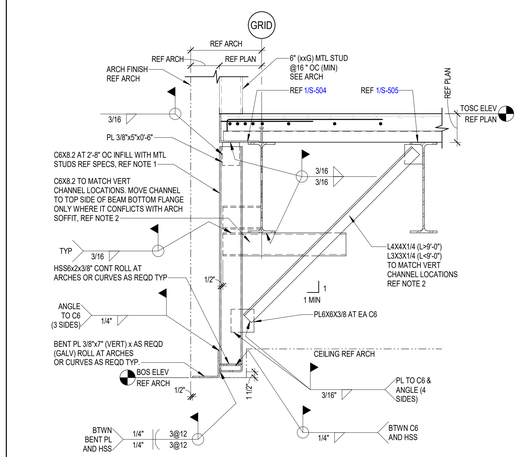
1. LOCATE FIRST VERT CHANNEL AT 6" MAX. FROM EACH END OF OPENING AN EACH SIDE OF COLUMN FACE.
2. LOWER END OF THE DIAGONAL ANGLE SHALL BE PLACED LESS THAN 6" ABOVE THE TUBE. RAISE THIS END UP ONLY TO AVOID CONFLICTING WITH THE CEILING.
3. AT JOISTS, PROVIDE JOIST CHORD STRENGTHENING BRACING WHERE BRACING IS NOT AT JOIST TOP CHORD PANEL POINT.

NOTES:

FOR OPENINGS LESS THAN 8'-0" WIDE
REFER TO LOOSE LINTLE SCHEDULE.

1 TYPICAL MASONRY SUPPORT OVER OPENINGS GREATER THAN 8'-0"

3/4" = 1'-0"



NOTES:

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NOTES:

FOR OPENINGS LESS THAN 8'-0" WIDE
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2 TYPICAL MASONRY SUPPORT OVER OPENINGS GREATER THAN 8'-0"

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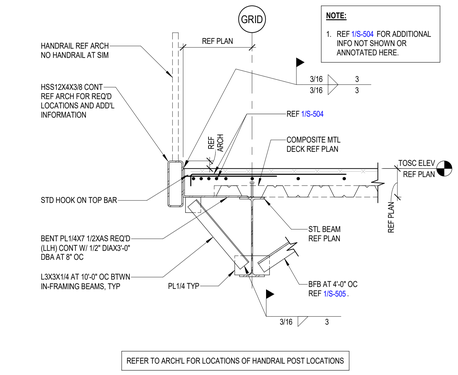

NOTE:

1. REF 1/S-504 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE.

REFER TO ARCH'L FOR LOCATIONS OF HANDRAIL POST LOCATIONS

3 TYPICAL SLAB EDGE DETAIL AT GUARDRAILS

3/4" = 1'-0"

SECTION A

4 REMOVABLE GUARDRAIL DETAIL

3/4" = 1'-0"

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POOL/AQUATICS
CONSULTANT NAME
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ISSUE FOR PROPOSAL

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INDEPENDENT SCHOOL DISTRICT

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H G F
K E D C
B A

KEY PLAN

NORTH: PLAN TRUE

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STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
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Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

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COMPOSITE FRAMING DETAILS (CONT.)

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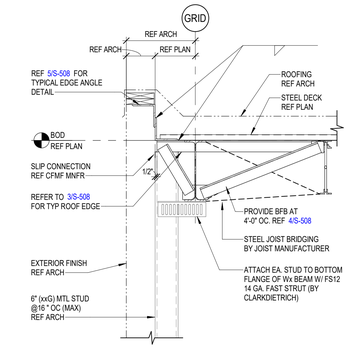
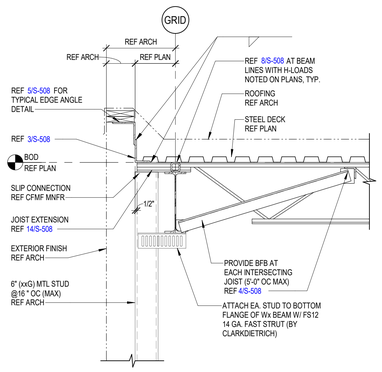
S-511

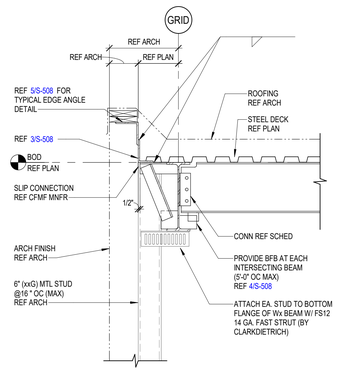
ISSUE FOR PROPOSAL



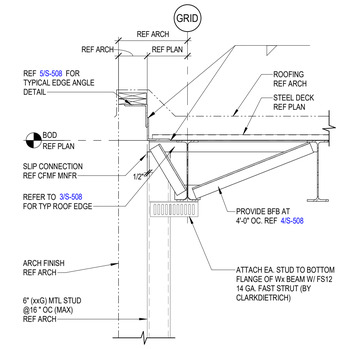
1 TYPICAL ROOF SECTION
3/4" = 1'-0"



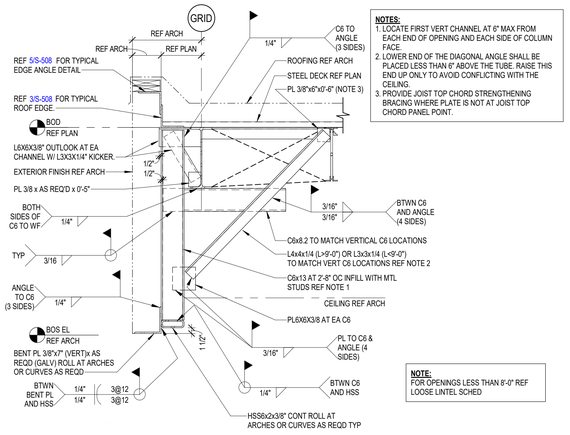
2 TYPICAL ROOF SECTION
3/4" = 1'-0"



3 TYPICAL ROOF SECTION
3/4" = 1'-0"

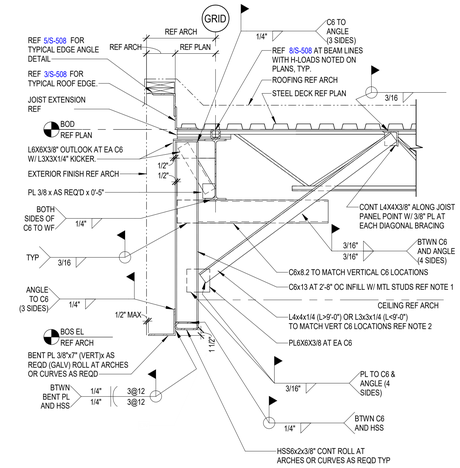


4 TYPICAL ROOF SECTION
3/4" = 1'-0"



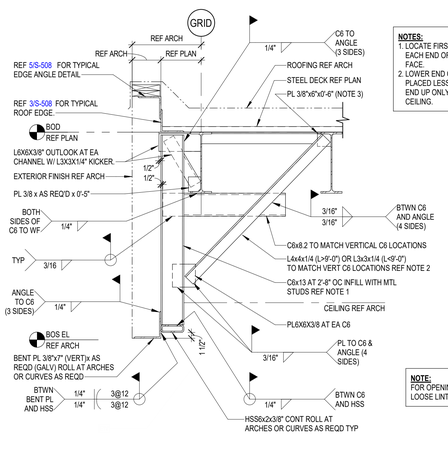
NOTES:
1. LOCATE FIRST VERT CHANNEL AT 6" MAX FROM EACH END OF OPENING AND EACH SIDE OF COLUMN FACE.
2. LOWER END OF THE DIAGONAL ANGLE SHALL BE PLACED LESS THAN 6" ABOVE THE TUBE. RAISE THIS END UP ONLY TO AVOID CONFLICTING WITH THE CEILING.
3. PROVIDE JOIST TOP CHORD STRENGTHENING BRACING WHERE PLATE IS NOT AT JOIST TOP CHORD PANEL POINT.

NOTE:
FOR OPENINGS LESS THAN 8'-0" REF LOOSE LINTEL SCHED

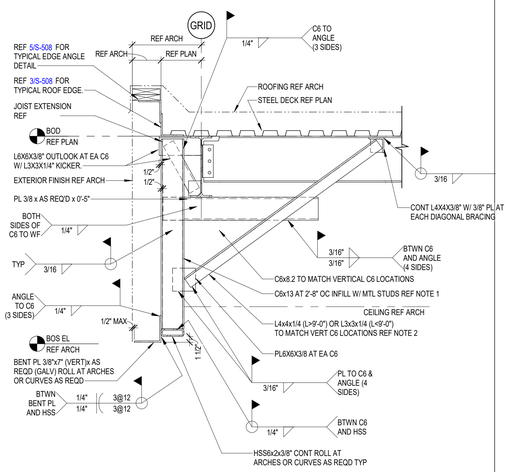


NOTE:
FOR OPENINGS LESS THAN 8'-0" REF LOOSE LINTEL SCHED

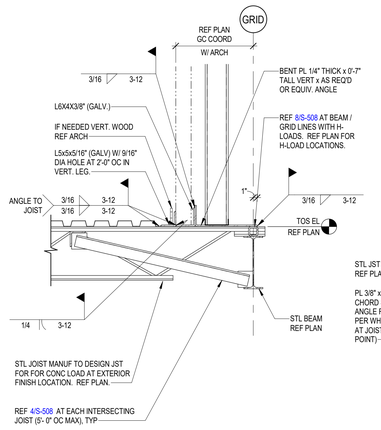
5 TYPICAL MASONRY SUPPORT OVER OPENINGS GREATER THAN 8'-0"
3/4" = 1'-0"

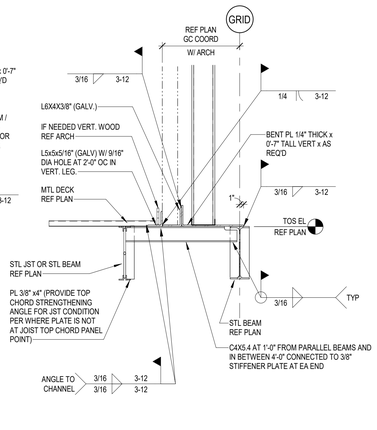


NOTES:
1. LOCATE FIRST VERT CHANNEL AT 6" MAX FROM EACH END OF OPENING AND EACH SIDE OF COLUMN FACE.
2. LOWER END OF THE DIAGONAL ANGLE SHALL BE PLACED LESS THAN 6" ABOVE THE TUBE. RAISE THIS END UP ONLY TO AVOID CONFLICTING WITH THE CEILING.



6 TYPICAL MASONRY SUPPORT OVER OPENINGS GREATER THAN 8'-0"
3/4" = 1'-0"

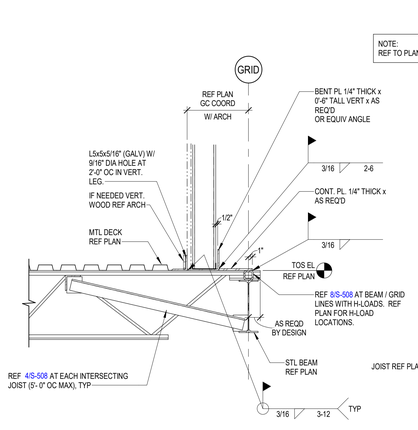


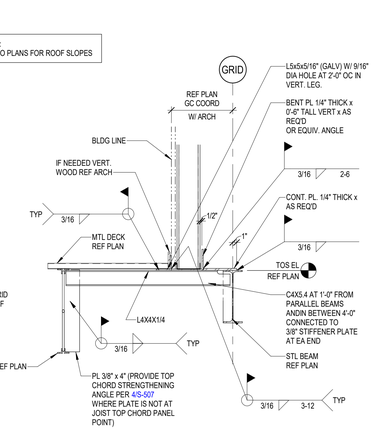


NOTE: JOIST ENGINEER TO DESIGN JOISTS FOR ADDITIONAL DEAD LOAD ASSOCIATED WITH VENEER AND WALL SYSTEM FOR TOTAL HEIGHT OF WALL SUPPORTED ABOVE. ASSUME THE FOLLOWING DEAD LOADS (TYP):
MASONRY DEAD LOAD = 40 PSF
CFMF WALL SYSTEM = 15 PSF
NON-MASONRY VENEER = 5 PSF

7 TYP. EXTERIOR FINISH SUPPORT AT HIGH/LOW ROOF TRANSITIONS
3/4" = 1'-0"

NOTE:
REF TO PLANS FOR ROOF SLOPES





NOTE: JOIST ENGINEER TO DESIGN JOISTS FOR ADDITIONAL DEAD LOAD ASSOCIATED WITH VENEER AND WALL SYSTEM FOR TOTAL HEIGHT OF WALL SUPPORTED ABOVE. ASSUME THE FOLLOWING DEAD LOADS (TYP):
MASONRY DEAD LOAD = 40 PSF
CFMF WALL SYSTEM = 15 PSF
NON-MASONRY VENEER = 5 PSF

8 TYP. METAL PANEL FINISH SUPPORT AT HIGH/LOW ROOF TRANSITIONS
3/4" = 1'-0"

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T 713-340-3300
ACOUSTIC
WJHW
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FOOD SERVICE
RSC
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

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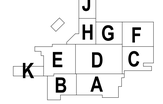
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

ROOF FRAMING DETAILS

S-520

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Plot Stamp: 2/17/2025 9:25:17 AM

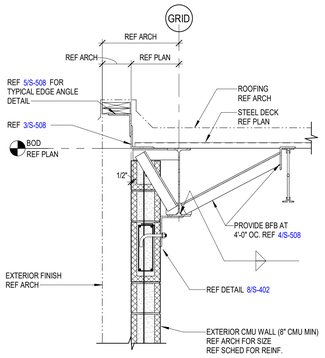
ROOF FRAMING DETAILS (CONT.)

S-521

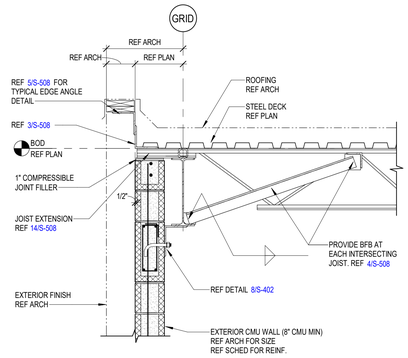
FOR BLUEBEAM LABELING:

0"

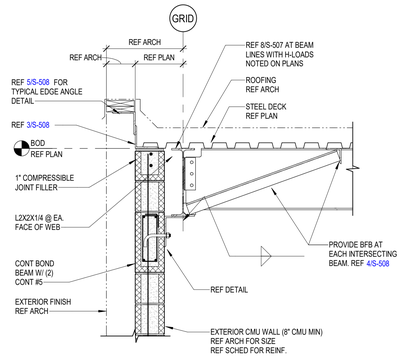
1"



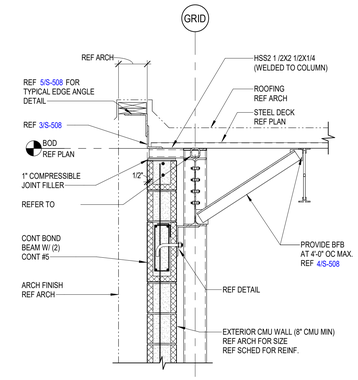
1 ROOF SECTION
3/4" = 1'-0"



2 ROOF SECTION
3/4" = 1'-0"



3 ROOF SECTION
3/4" = 1'-0"



4 ROOF SECTION
3/4" = 1'-0"

5 ROOF SECTION
3/4" = 1'-0"

6 ROOF SECTION
3/4" = 1'-0"

ISSUE FOR PROPOSAL

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LEAP
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T 000-000-0000

Arnold Middle School

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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN

J
H G F
K E D C
B A

NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ROOF FRAMING DETAILS (CONT.)

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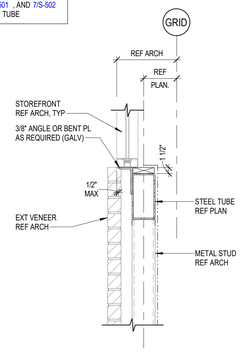
S-521

PROPOSAL
ISSUE FOR P

0"
1"

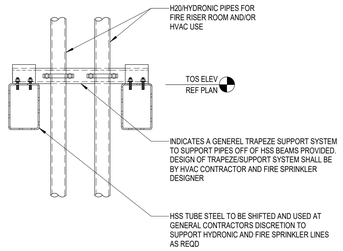
PROVIDE STUB-OUT CONNECTIONS PER 7/S-501 ,8/S-501 , AND 7/S-502 AT EACH END OF TUBE



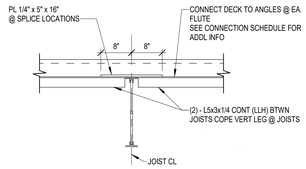
1 HSS HEADER DETAIL
3/4" = 1'-0"

NOTE:

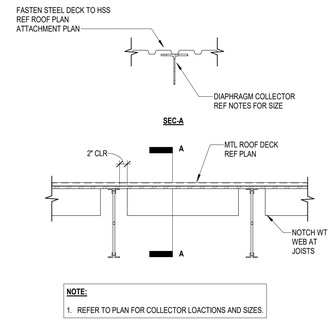
1. IF MORE HSS BEAMS ARE NEEDED THAN THOSE SHOWN CONTRACTOR SHALL CARRY THE COST OF THE ADDED HSS BEAMS AS REQD FOR THEIR FIRE RISER/SPRINKLER DESIGN



2 FIRE/SPRINKLER SUPPORT
3/4" = 1'-0"



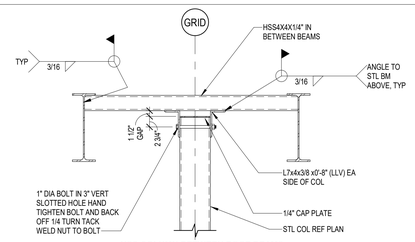
3 TYPICAL DETAIL
3/4" = 1'-0"



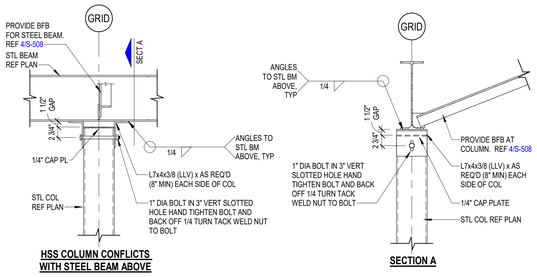
NOTE:

1. REFER TO PLAN FOR COLLECTOR LOACTIONS AND SIZES.

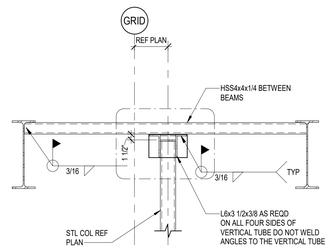
4 DIAPHRAGM COLLECTOR PERP TO JOISTS
3/4" = 1'-0"



HSS COLUMN BETWEEN ROOF BEAMS



5 FRAMING SECTION
3/4" = 1'-0"



6 FRAMING SECTION
3/4" = 1'-0"

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LEAP
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RSC
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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
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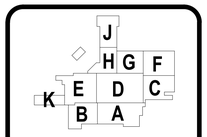
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ROOF FRAMING DETAILS (CONT.)

S-522

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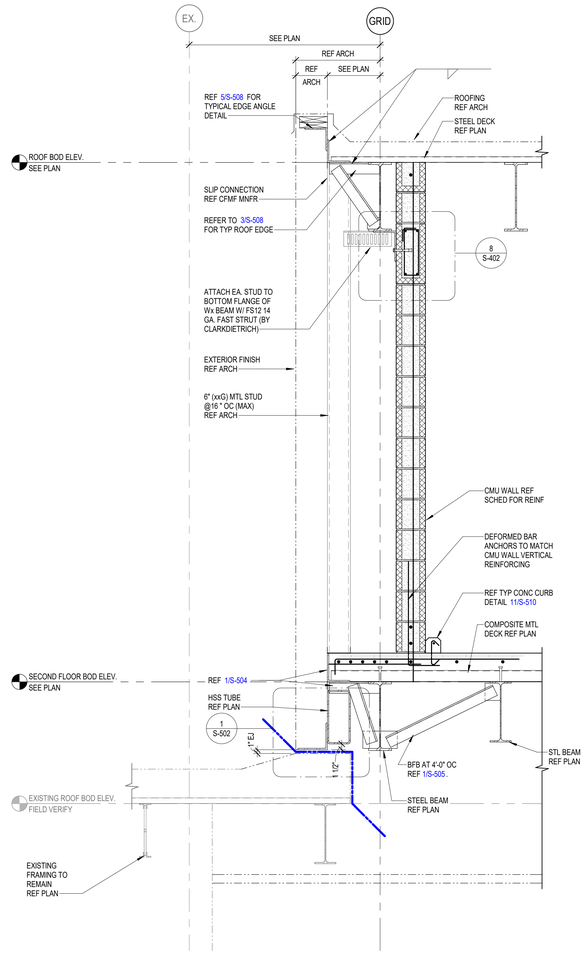
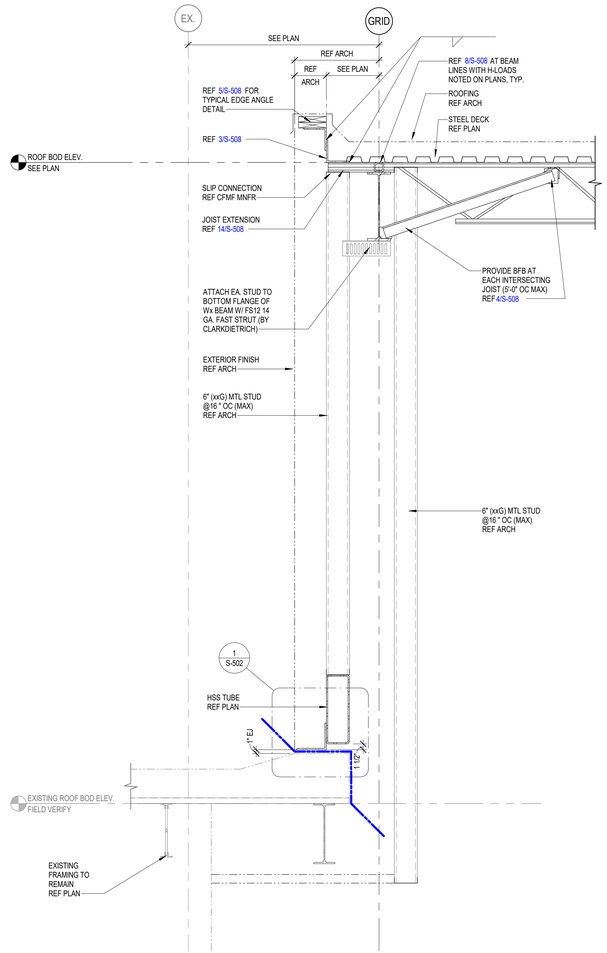
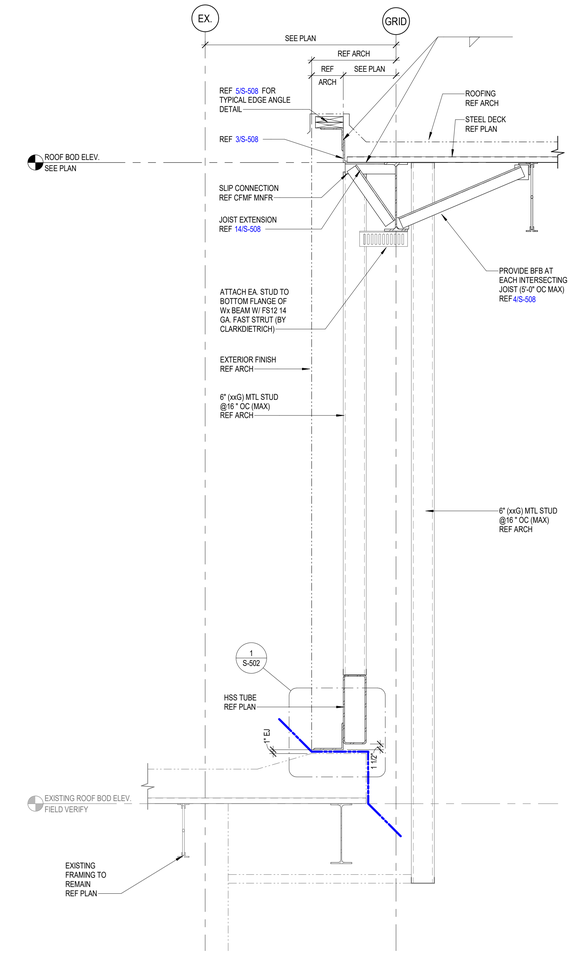


1 ORCHESTRA ADDITION - HIGH-LOW AT MEZZANINE
3/4" = 1'-0"



2 ORCHESTRA ADDITION - HIGH-LOW
3/4" = 1'-0"



3 ORCHESTRA ADDITION - HIGH-LOW
3/4" = 1'-0"

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CONSULTANT NAME
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CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

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ROOF FRAMING DETAILS (CONT.)

S-523

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S-530

GENERAL EXISTING FRAMING NOTES AND TYPICAL DETAILS

FOR BLUEBEAM LABELING/OCR:

0"

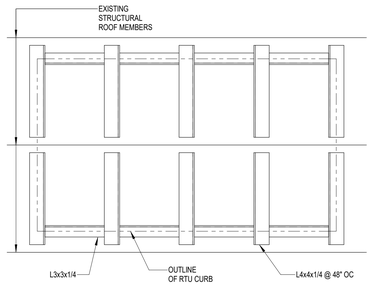
1"

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.

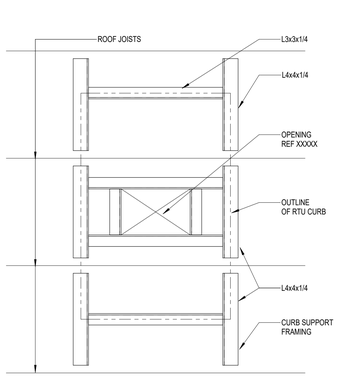
DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT AND MAY NOT BE ENTIRELY ACCURATE, COMPLETE, OR REPRESENTATIVE OF EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
5. THE GC SHALL SUBMIT PREDEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL.
6. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
7. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.

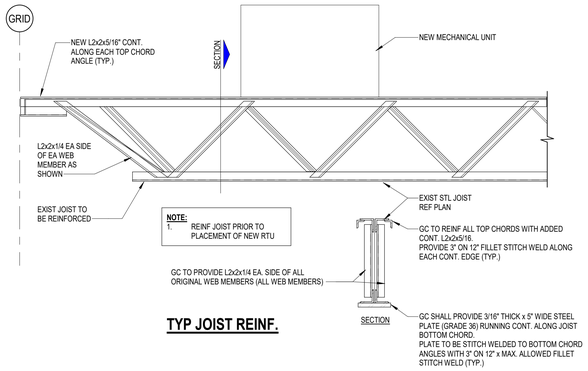


ROOF TOP UNIT SUPPORT FRAMING

NOTE:
1. GC TO COORDINATE LOCATIONS WITH ARCH/MEP DRAWINGS.

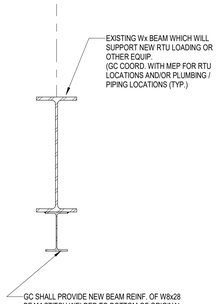


ROOF TOP UNIT SUPPORT FRAMING PLAN



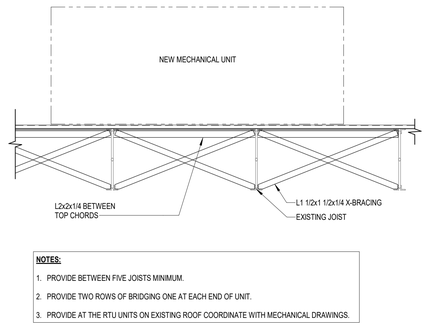
NOTE:
1. REINF JOIST PRIOR TO PLACEMENT OF NEW RTU

TYP JOIST REINF.



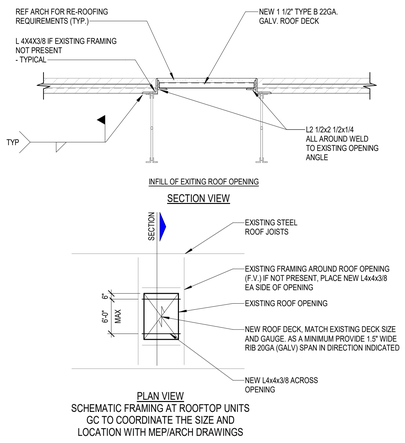
TYP. Wx BEAM REINF

1 TYPICAL ROOF TOP UNIT SUPPORT AT EXISTING ROOF
3/4" = 1'-0"

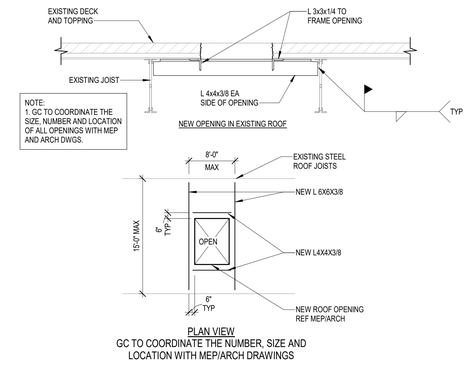


NOTES:
1. PROVIDE BETWEEN FIVE JOISTS MINIMUM.
2. PROVIDE TWO ROWS OF BRIDGING ONE AT EACH END OF UNIT.
3. PROVIDE AT THE RTU UNITS ON EXISTING ROOF COORDINATE WITH MECHANICAL DRAWINGS.

2 REINFORCING DETAIL AT NEW MECHANICAL UNITS
NO SCALE



3 TYPICAL INFILL DETAIL AT EXISTING MECH PENETRATION
3/4" = 1'-0"



4 TYPICAL NEW ROOF PENETRATION / OPENING IN EXISTING
3/4" = 1'-0"

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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J H G F
K E D C
B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL
ENGINEER
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

GENERAL EXISTING FRAMING NOTES AND TYPICAL DETAILS

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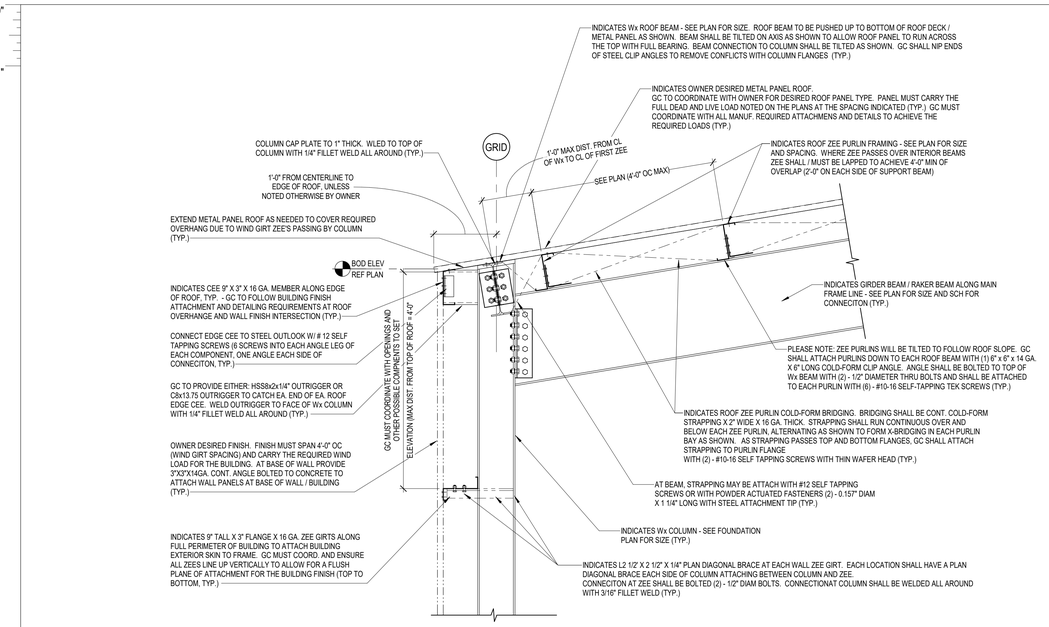
S-530

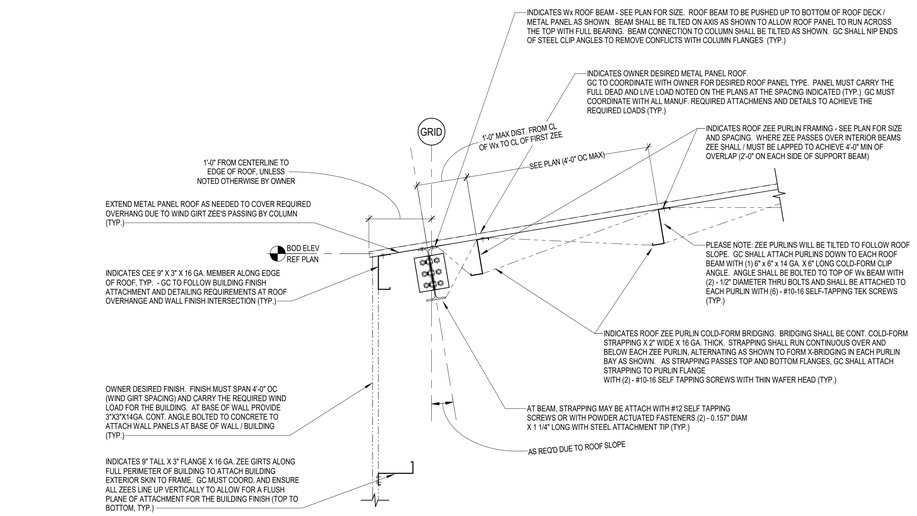
PEMB FRAMING DETAILS

S-540

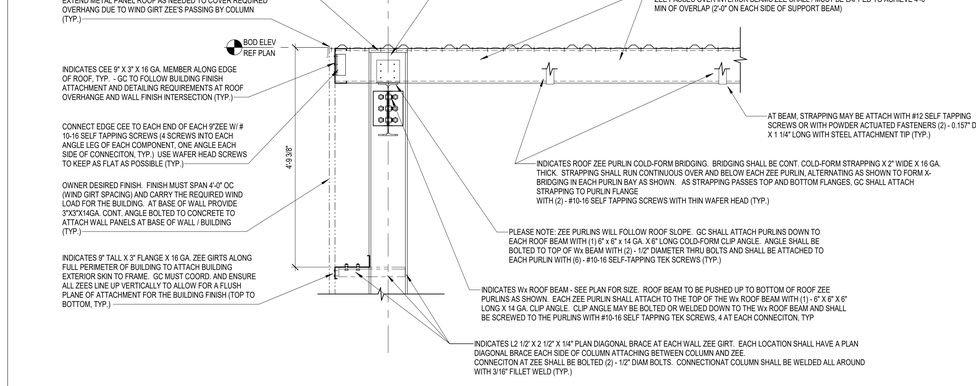
FOR BLUEBEAM LABELING:



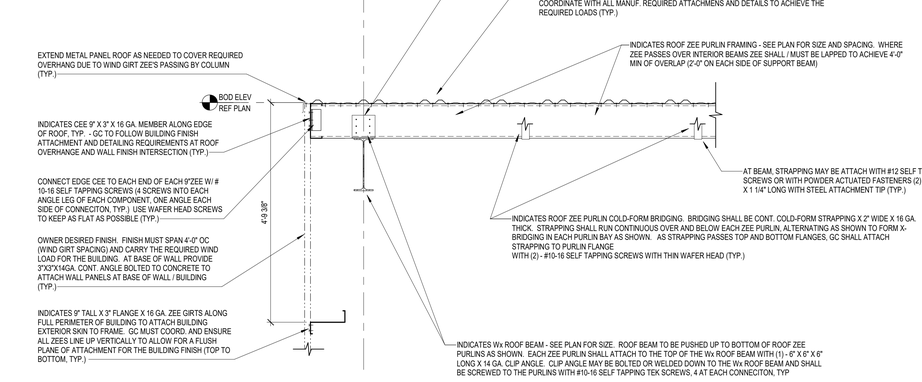
1 PEMB TYPE ROOF EDGE DETAIL AT FRAME PERP. TO RAKE
3/4" = 1'-0"



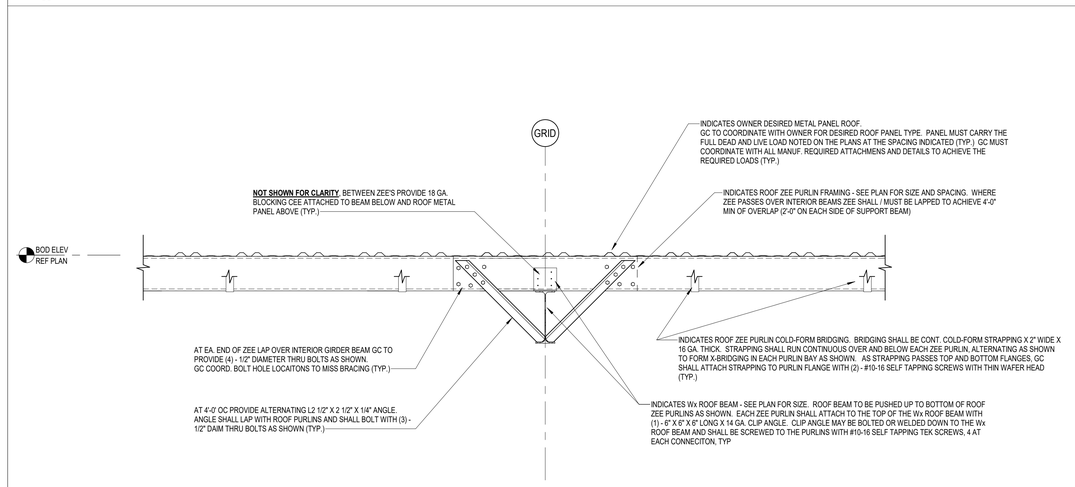
2 PEMB TYPE ROOF EDGE DETAIL BETWEEN FRAMES PERP. TO RAKE
3/4" = 1'-0"



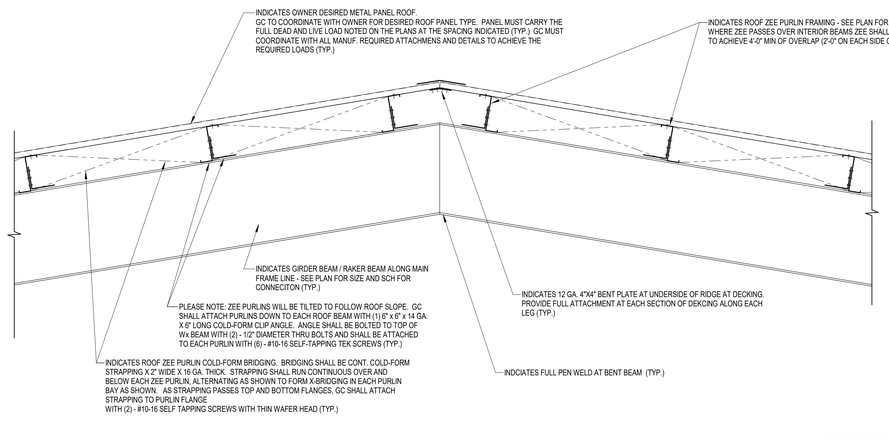
3 PEMB TYPE ROOF EDGE DETAIL AT FRAME PARALLEL TO RAKE
3/4" = 1'-0"



4 PEMB TYPE ROOF EDGE DETAIL BETWEEN FRAMES PARALLEL TO RAKE
3/4" = 1'-0"



5 PEMB TYPE ROOF EDGE DETAIL AT INTERIOR GIRDER / RAKER BEAM
3/4" = 1'-0"



6 PEMB TYPE ROOF DETAIL AT RIDGE
3/4" = 1'-0"

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FOOD SERVICE
T 281-356-2223

POOL/AQUATICS CONSULTANT NAME
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Arnold Middle School

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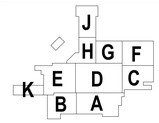
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
REGISTERED
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

PEMB FRAMING DETAILS

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S-540

TYPICAL WIND BRACING ELEVATIONS

S-600

FOR BLUEBEAM LABELING:OOR:

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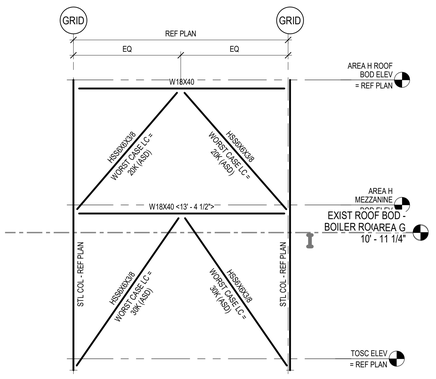
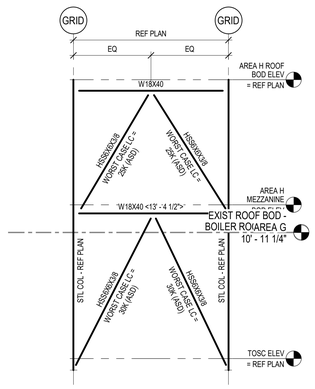
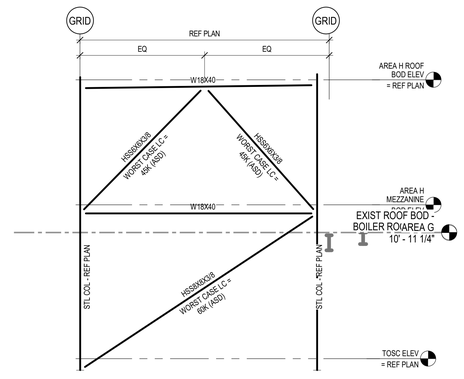


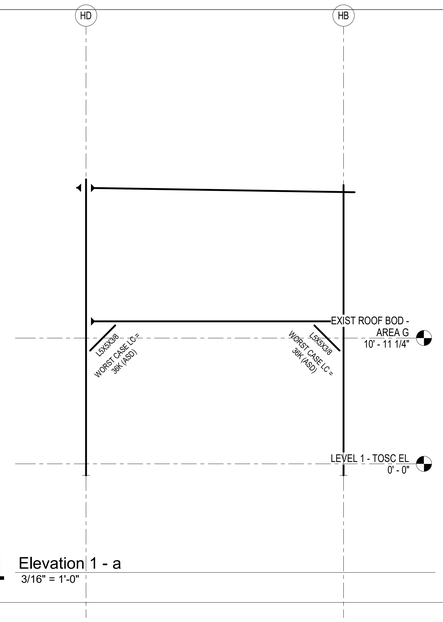
1 BRACE ELEVATION
3/16" = 1'-0"



2 BRACE ELEVATION
3/16" = 1'-0"



3 BRACE ELEVATION
3/16" = 1'-0"



4 Elevation 1 - a
3/16" = 1'-0"

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RSC
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POOL/AQUATICS
CONSULTANT NAME
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Arnold Middle School
11111 TEL GE RD,
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ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

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K E D C
B A

KEY PLAN
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DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
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Kubala Engineers
F-23612

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DATE	PROJECT NUMBER
02/17/2025	220023

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No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

TYPICAL WIND BRACING ELEVATIONS

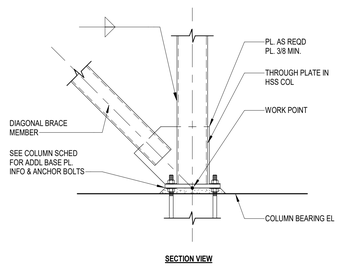
S-600

TYPICAL WIND BRACING DETAILS
S-610
FOR BLUEBEAM LABELING/OCR:

0"
1"

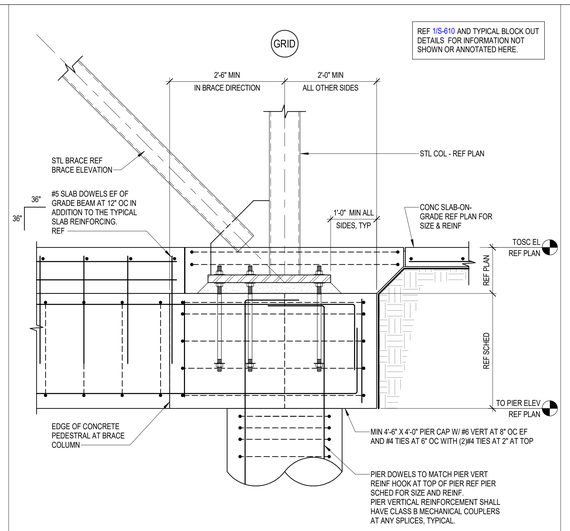
VERTICAL BRACE NOTES:

1. VERTICAL BRACE CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS WORKING FOR THE FABRICATOR. SUBMIT CALCULATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. MEMBER CONNECTIONS TO BE DESIGNED FOR FORCES (KIPS) SHOWN. FORCES INDICATED ARE UNFACTORED ACCORDING TO ALLOWABLE STRESS DESIGN METHOD (ASD). WHERE FORCES ARE NOT GIVEN, DESIGN FOR THE TENSILE CAPACITY OF THE DIAGONAL MEMBERS.
3. CONNECTIONS SHALL BE DESIGNED AND DETAILED TO TRANSFER FORCES BETWEEN MEMBERS WITHOUT ECCENTRICITY.
4. CONNECTIONS SHALL BE DESIGNED AND DETAILED FOR BOTH TENSION AND COMPRESSION PER FORCES PROVIDED.
5. FILLET WELD CONNECTIONS SHALL COMPLY WITH REQUIREMENTS NOTED IN AWS D1.1



SECTION VIEW

1 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
NO SCALE



2 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
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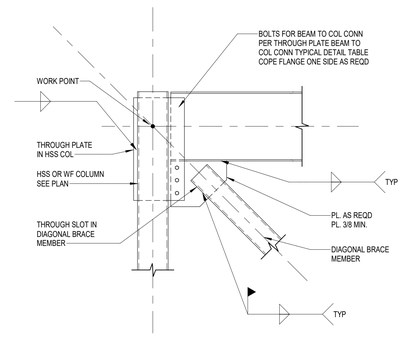

3 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
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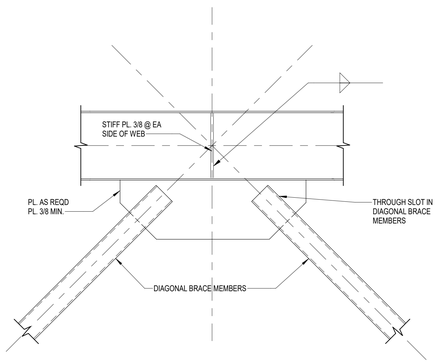

4 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
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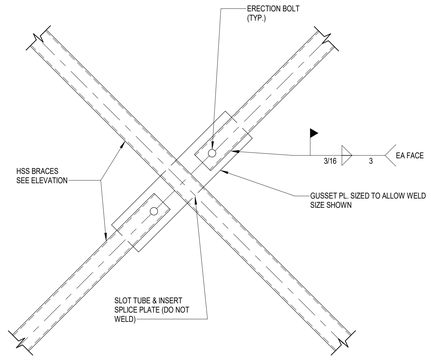
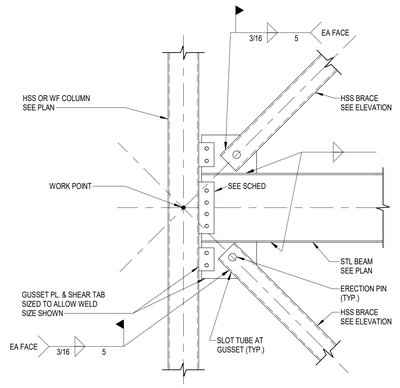
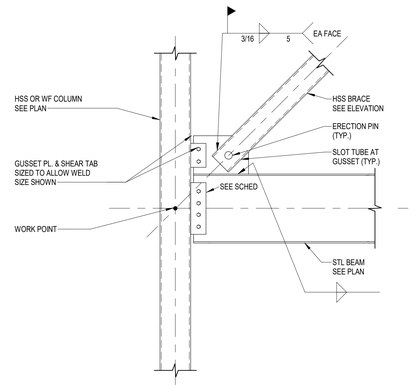


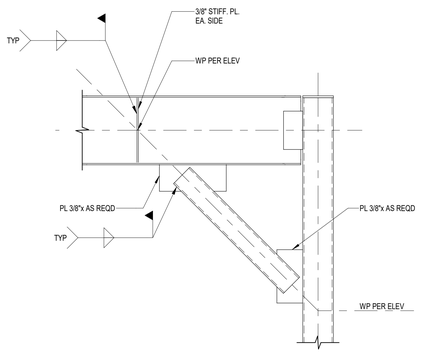
5 TYPICAL DETAIL OF TUBE X-BRACE
NO SCALE



6 TYPICAL DETAIL OF TUBE K-BRACE AT WIDE FLANGE BEAM
NO SCALE



7 TYPICAL DETAIL OF TUBE K-BRACE AT WIDE FLANGE BEAM
NO SCALE



8 TYPICAL DETAIL OF VERTICAL BRACE CONNECTION
NO SCALE

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CONSULTANT NAME
T 000-000-0000

Arnold Middle School
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ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN
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K E D C
B A
NORTH: PLAN TRUE

DISCIPLINE
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LICENSED PROFESSIONAL ENGINEER
02/17/2025
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F-23612

CLIENT
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DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

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TYPICAL WIND BRACING DETAILS

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S-610

TYPICAL LADDER DETAILS

S-700

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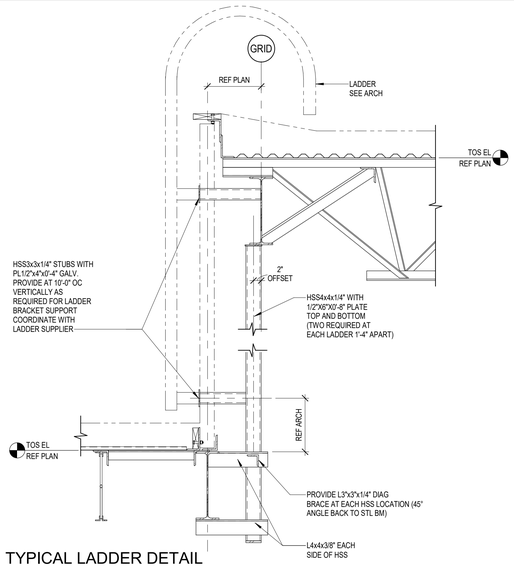
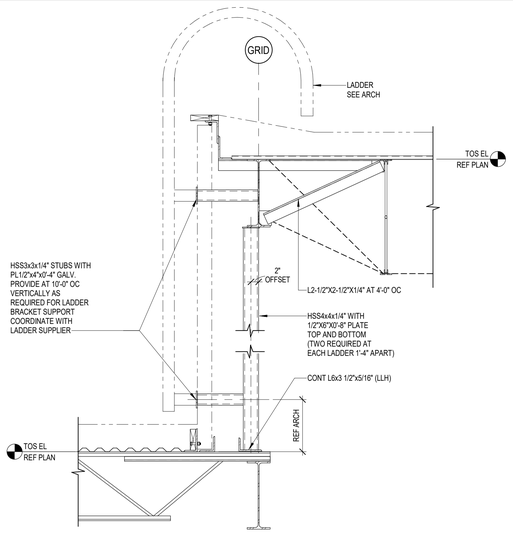
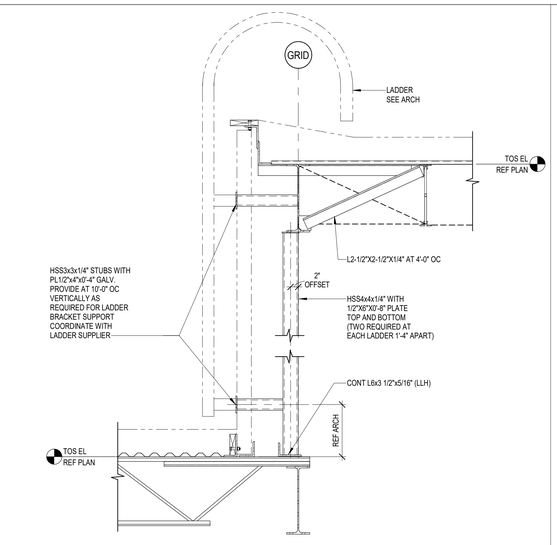


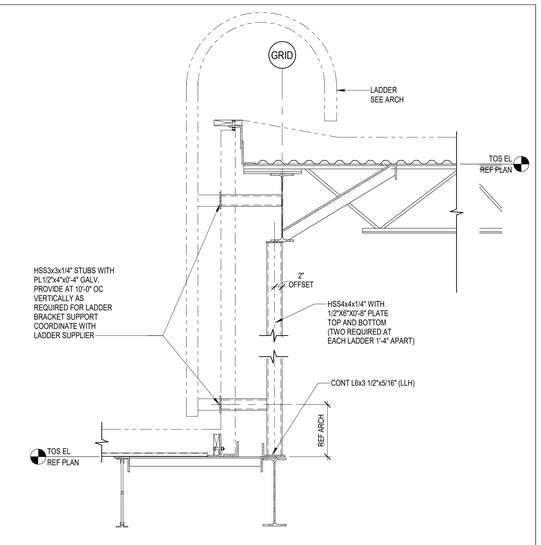
1 TYPICAL LADDER DETAIL
3/4" = 1'-0"



2 TYPICAL LADDER DETAIL
3/4" = 1'-0"



3 TYPICAL LADDER DETAIL
3/4" = 1'-0"



4 TYPICAL LADDER DETAIL
3/4" = 1'-0"

NOTE:

GC SHALL COORDINATE LADDER TYPE, LOCATION, CONNECTION, AND HEIGHT WITH ARCH PRIOR TO CONSTRUCTION.

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CONSULTANT NAME
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Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
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CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

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BUILDING NUMBER

TYPICAL LADDER DETAILS

S-700

ISSUE FOR PROPOSAL

0"
1"

TIMBER NOTES:

1. TIMBER SHALL CONFORM TO NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS FASTENINGS, NATIONAL FOREST PRODUCTS ASSOCIATES LATEST EDITION.

2. MATERIALS FOR FRAMING LUMBER SUBJECT TO BENDING STRESSES SUCH AS BEAMS, JOISTS, RAFTERS, HEADERS, AND OTHER HORIZONTAL MEMBERS SHALL BE SOUTHERN PINE NO. 2 KD (MC 15) CONSTRUCTION MINIMUM, UNLESS A HIGHER GRADE IS SHOWN ON THE DRAWINGS.

3. MATERIALS FOR STUD WALLS AND COLUMNS SHALL BE SOUTHERN PINE NO. 2, CONSTRUCTION, OR STUD GRADE TIMBER OR EQUIVALENT DOUGLAS FIR-LARCH UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

4. MATERIALS MUST BE GRADE MARKED.

5. DECKING SHALL BE INSTALLED USING A RANDOM LAY UP PATTERN.

6. PLYWOOD ROOF DECKING SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESS AS SHOWN ON THE DRAWINGS. INSTALL PLYWOOD WITH FACE GRAIN ACROSS SUPPORTS. PROVIDE PLYWOOD SHEATHING CLIPS AT ALL FREE EDGES. PLYWOOD SPAN RATING SHALL BE 48/24. NAIL PLYWOOD TO FRAMING WITH 10d HOT-DIP GALVANIZED NAILS AS FOLLOWS:

ROOF ZONE:	FIRST 5' OF GABLED END	FIRST 4' FROM EDGE & RIDGE	OTHERS
PANEL EDGES	4" O.C.	6" O.C.	6" O.C.
PANEL FIELD	6" O.C.	6" O.C.	12" O.C.

NAIL TO ALL SUPPORTS AT 4" O.C. FOR A 10'-0" SQUARE AREA AT CORNERS.

7. PLYWOOD FLOOR DECKING SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESS AS SHOWN ON THE DRAWINGS. INSTALL PLYWOOD WITH FACE GRAIN ALONG SUPPORTS. PLYWOOD SPAN RATING SHALL BE 48/24. NAIL PLYWOOD 6" OC ALONG PANEL EDGES AND 10" OC AT INTERMEDIATE SUPPORTS AND BLOCKING WITH 10d HOT-DIP GALVANIZED NAILS.

8. PLYWOOD WALL SHEATHING SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESS AS SHOWN ON THE DRAWINGS. SPAN RATING SHALL BE 32/16. NAIL PLYWOOD AT 4" OC ALONG PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS AND BLOCKING WITH 10d HOT-DIP GALVANIZED NAILS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. EXTERIOR GYPSUM WALL SHEATHING PER ARCHITECTURAL DRAWINGS SHALL BE NAILED AT 4" OC ALONG PANEL EDGES AND INTERMEDIATE SUPPORTS WITH NO. 11, 1 3/4" LONG, 7/16" HEAD HOT DIP GALVANIZED NAILS.

9. ALL EXTERIOR WALLS SHALL BE FRAMED WITH A MINIMUM 2x4 STUD GRADE STUDS AT 16" OC. ALL INTERIOR LOAD BEARING WALLS SHALL BE FRAMED WITH A MINIMUM OF 2x4 STUD GRADE STUDS AT 16" OC. STUDS SHALL BE BLOCKED AT 4'-0" OC VERTICALLY, PRIOR TO THE APPLICATION OH SHEATHING. AT NO TIME SHALL VERTICAL LOAD BE APPLIED TO THE STUDS WITHOUT THE SHEATHING BEING IN PLACE OR THE STUDS BEING BLOCKED AND BRACED. 3X4 STUDS AT 16" OC OR 2-2X4 STUDS AT 16" OC SPIKED TOGETHER WITH 16d HOT-DIP GALVANIZED NAILS AT 24" OC AT THE FIRST LEVEL OF A THREE-STORY BUILDING, AND 2X4 AT 16" OC AT UPPER LEVELS. PROVIDE 2X4 AT 16" OC FOR ALL LEVELS FOR A TWO-STORY BUILDING UNLESS NOTED OTHERWISE ON THE DRAWINGS.

10. PROVIDE TRIPLE STUDS AT ALL CORNERS AND AT ALL BEAM BEARINGS MINIMUM THROUGH TO THE FOUNDATION UNLESS NOTED OTHERWISE. PROVIDE STUDS AT BEAM BEARINGS TO MATCH BEAM WIDTH WHERE BEAM WIDTH EXCEEDS 4 1/2 INCHES.

11. DOUBLE JOISTS UNDER ALL PARTITIONS PARALLEL WITH JOISTS. LAP JOISTS 4 INCHES MINIMUM OVER DROPPED BEAMS AND BEARING PARTITIONS.

12. UNLESS NOTED OTHERWISE ON PLANS, PROVIDE 5 JOISTS DIRECTLY BELOW ALL LOAD BEARING PARTITIONS WHEN FLOOR JOISTS ARE PARALLEL TO PARTITIONS. WHEN LOAD BEARING PARTITIONS ARE PERPENDICULAR TO JOISTS, USE DOUBLE JOISTS AT EACH LOCATION WHERE PARTITION CROSSES JOISTS, AND SOLID DOUBLE BLOCKING CONTINUOUSLY UNDER WALL. DOUBLE JOISTS EACH SIDE OF CHASE WALLS PARALLEL WITH JOISTS AND PROVIDE 2x SOLID BLOCKING AT 48 INCHES ON CENTER BETWEEN DOUBLE JOISTS.

13. BRIDGING BETWEEN JOISTS AND RAFTERS SHALL BE 1x4 WOOD OR 16 GAGE HOT-DIP GALVANIZED STEEL CROSS BRIDGING OR 2x SOLID BRIDGING AT ALL BEARING LOCATIONS AND AT 8 FOOT MAXIMUM INTERVALS.

14. BEAMS MADE UP OF MULTIPLE 2x PIECES SHALL NOT BE SPLICED EXCEPT OVER SUPPORTS. ALL MULTI PLY MEMBER BEAMS SHALL BE ATTACHED TOGETHER BY GLUEING AND NAILING WITH 10d NAILS AT 6" O.C. TOP AND BOTTOM FOR EACH PLY. FLITCH BEAMS WITH STEEL PLATES SHALL BE BOLTED TOGETHER WITH 1/2" DIAMETER HOT-DIP GALVANIZED A307 THRU BOLTS AT 1'-0" O.C. STAGGERED FROM TOP TO BOTTOM.

15. ANCHOR WOOD SILLS (PRESSURE TREATED) TO CONCRETE WITH 1/2" DIA. x 9" LONG HOT-DIP GALVANIZED, HOOKED ANCHOR BOLTS WITH 9/16" TYPE 'B' WIDE HOT-DIP GALVANIZED WASHERS EMBEDDED 7" MINIMUM AT 24 INCHES MAX. O.C. AT CORNERS AND DOOR OPENINGS PROVIDE ONE ANCHOR BOLT AT 8 INCHES IN EACH DIRECTION FROM CORNER. PROVIDE TWO BOLTS MINIMUM PER PIECE OF SILL PLATE.

16. HOLES NO GREATER THAN 1/3 THE DEPTH OF THE JOIST MAY BE CUT HORIZONTALLY THRU JOISTS AND SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST.

17. PREFABRICATED TIMBER TRUSSES SHALL BE FABRICATED BY A CERTIFIED TIMBER TRUSS MANUFACTURER.

18. TRUSSES SHALL BE FABRICATED WITH WOOD CHORDS AND WEBS IN ACCORDANCE WITH THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI I, LATEST EDITION, BY THE TRUSS PLATE INSTITUTE.

19. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY BRACING FOR TIMBER TRUSSES. BRACING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS FOR BRACING WOOD TRUSSES, PUBLICATION HIB, LATEST EDITION, BY THE TRUSS PLATE INSTITUTE.

20. TRUSS MANUFACTURER SHALL SUBMIT DRAWINGS FOR APPROVAL SHOWING ALL MEMBER FORCES, SIZES AND CONNECTORS. DRAWINGS SHALL BE SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. [SUBMIT SHOP DRAWINGS TO THE CITY OF HOUSTON.] CHANGES IN THE TRUSS LAYOUT SHOWN ON THE CONTRACT DRAWINGS BY THE TRUSS MANUFACTURER WILL REQUIRE CHANGES IN THE LOCATIONS AND QUANTITIES OF ROOF TRUSS AND ROOF GIRDER TRUSS UPLIFT ANCHORS AND HOLDOWNS AND SHEARWALL SIZES, LOCATIONS AND HOLDOWNS. GENERAL CONTRACTOR SHALL COORDINATE ANY CHANGES IN THE TRUSS LAYOUT WITH THE ENGINEER OF RECORD. ADDITIONAL DESIGN SERVICES DUE TO THESE CHANGES WILL BE CHARGED TO THE GENERAL CONTRACTOR.

21. TYPICAL TRUSS LOADING IS SHOWN ON THE DRAWINGS. THE MANUFACTURER SHALL EXAMINE THE DRAWINGS FOR SPECIAL CONDITIONS AND/OR LOADS NOT SHOWN AND PROVIDE FOR SUCH IN THE DESIGN.

22. AT BUILDING ENDS, SPECIAL GABLE-END TRUSSES SHALL BE USED. TRUSSES SHALL BE DESIGNED AND FABRICATED WITH VERTICAL STUDS NO MORE THAN 16 INCHES ON CENTER. [NARROW FACE OF STUD SHALL BE PARALLEL TO FACE OF EXTERIOR WALL OR NARROW FACE OF STUD MAY BE PERPENDICULAR TO EXTERIOR FACE OF BUILDING. STUDS SHALL BRACED AS REQUIRED FOR THE DESIGN WIND LOAD. AT GABLE END WALLS, STUDS SHALL BE BALLOON FRAMED TO THE BOTTOM OF THE TRUSS.

23. PLANS AND DETAILS FOR FRAMING ARE A SCHEMATIC REPRESENTATION OF THE FRAMING AT VARIOUS LOCATIONS AND CONDITIONS ON THIS PROJECT. THE CONTRACTOR SHALL NOT SCALE OR COUNT FRAMING MEMBERS SHOWN AS A SUBSTITUTE FOR SHOP DRAWINGS AND AN ACCURATE QUANTITY TAKEOFF. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FRAMING NECESSARY TO COMPLETELY FRAME THE PROJECT AND PROVIDE FOR ALL CONDITIONS SHOWN ON THE ARCHITECTURAL DRAWINGS.

24. JOIST AND RAFTER HANGERS, TIES, HOLDDOWNS AND OTHER PRE-ENGINEERED CONNECTORS SHALL BE "SIMPSON STRONG-TIE" OR APPROVED EQUAL. SIZE AND USAGE SHALL BE AS SHOWN ON THE DRAWINGS, SPECIFIED IN THESE NOTES AND AS RECOMMENDED BY THE MANUFACTURER. ALL CONNECTORS SHALL BE POST HOT-DIP GALVANIZED COATED AFTER FABRICATION OR STAINLESS STEEL.

25. INSTALL A SIMPSON "H10" OR TWO (2)-"H2.5A" METAL TIES AT THE CONNECTION BETWEEN ALL RAFTERS OR TRUSS ENDS WHERE THEY BEAR ON A WOOD SUPPORT FOR 10'-0" IN ANY DIRECTION FROM BUILDING CORNERS. DOUBLED UP CLIPS SHALL BE INSTALLED DIAGONALLY ACROSS FROM EACH OTHER ON OPPOSITE SIDES OF THE TOP PLATE. INSTALL A SIMPSON "H2.5A" AT ALL OTHER TRUSS ENDS. METAL ANCHORS AT ROOF GIRDER TRUSS LOCATIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE TABLE PROVIDED ON THE DRAWINGS. SIZE AND USAGE SHALL BE VERIFIED BY THE STRUCTURAL ENGINEER.

26. ALL TIMBER OUTSIDE THE BUILDING ENVELOPE SHALL BE PRESSURE TREATED. ALL CONNECTIONS OUTSIDE THE BUILDING ENVELOPE SHALL BE MADE WITH HOT-DIP GALVANIZED BOLTS OR NAILS.

27. STAGE AND PLATFORM SUB-FRAMING TO BE CONSTRUCTED USING 2x6 FLOOR JOISTS SPACED AT 2'-0" OC (MAX SPAN OF 6'-0") AND SHEATHED WITH 3/4" PLYWOOD DECK. SUPPORT JOISTS ON 2x4 AT 16" OC PONY WALLS (3'-0" MAX HEIGHT). PROVIDE 2x4 SILL PLATE AND DOUBLE 2x4 TOP PLATE. FASTEN SILL PLATES TO SLAB USING 1/2" DIAMETER HOT-DIP GALVANIZED CONCRETE EXPANSION ANCHORS EMBEDDED 3 1/2" AND SPACED AT 24" OC. SUB-FRAMING TO BEAR ON TOP OF PONY WALLS WITH CONTINUOUS INTERIOR/EXTERIOR BLOCKING BETWEEN JOISTS.

28. STRUCTURAL WOOD LAMINATED TIMBERS SHALL MEET THE STRUCTURAL REQUIREMENTS AND LAMINATING SPECIFICATIONS OF AITC 117-84 "STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER" AND SHALL BE SUCH STRESS GRADE TO CONFORM TO SOUTHERN PINE CLASSIFICATION SYMBOL 24F [-V3 (Fv=200 PSI) OR -V5 (Fv=200 PSI Fb=2400 PSI)] COMPRESSION ZONE STRESSED IN TENSION. I.E. CANTILEVERS OR CONTINUOUS BEAMS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

29. SIZE OF LAMINATED TIMBERS SHALL BE AN ACTUAL SIZE AS SHOWN ON THE DRAWINGS USING 1 3/8 INCH LAMINATIONS.

30. LAMINATED STRUCTURAL LUMBER (LSL), OTHER THAN GLULAM MEMBERS, SHALL BE PARALLEL STRAND LUMBER HAVING THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb= 2900 PSI
Fc= 2900 PSI
Fv= 290 PSI

PORTABLE BUILDING ANCHORAGE:

1. THE CHARTS SHOWN HEREIN ARE FOR THE REQUIRED NUMBER OF TIE DOWNS ON THE SIDE OF THE MANUFACTURED HOME.

2. THE DOWNS ARE REQUIRED AT EACH CHASSIS BEAM, EACH END OF EACH TRANSPORTABLE SECTION OF THE MANUFACTURED HOME AND CAN BE ANY OF THE TYPES SHOWN HEREIN.

3. COMBINATIONS OF THE DIFFERENT TYPES OF TIE DOWNS CAN BE USED.

4. IN THE EVENT AN EARTH AUGER CANNOT BE INSTALLED DUE TO AN OBSTRUCTION, USE OF CROSS DRIVE ANCHORS IS PERMITTED, PROVIDED (2) CROSS DRIVES ARE INSTALLED FOR EACH EARTH AUGER THAT CANNOT BE INSTALLED.

5. FOR ALL TIE DOWN INSTALLATIONS, THE MFG'D HOME CHASSIS MEMBERS ARE SHOWN AS "I" BEAMS. FOR ILLUSTRATION PURPOSES ONLY. CHASSIS BEAMS CAN ALSO BE "C" SHAPED OR "RFC" SHAPED.

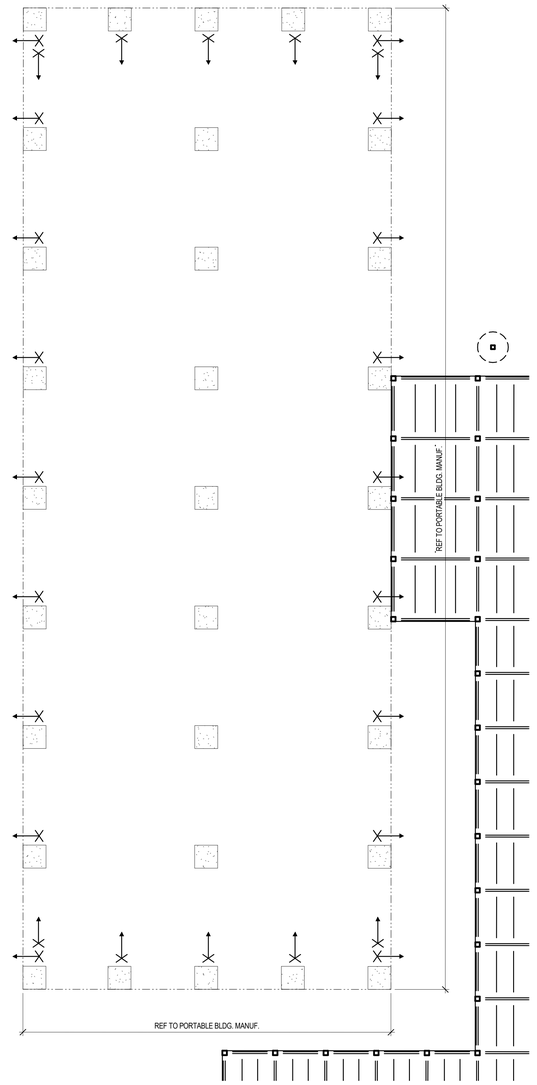
6. END TIE DOWNS CAN BE LOCATED WITHIN 24" OF EITHER SIDE OF SHASSIS BEAM AXIS AS SHOWN.

7. THE SIZES, TYPES, LENGTHS, ECT. OF MATERIAL SHOWN HEREIN ARE MINIMUM, LARGER, LONGER, HEAVIER MATERIALS SUPPLIED BY MINUTE-MAN PRODUCTS. MAY BE USED AT THE SAME SPACING & LOCATION SHOWN.

8. ALL PARTS ARE STAMPED MMA- WITH THE APPROPRIATE PART NUMBER.

9. THIS TIE DOWN SYSTEM CAN BE USED WITH 10' WIDE MANUFACTURED HOME SECTIONS WITH 100"X CHASSIS-BEAM DOES NOT EXCEED 19'.

10. TIE DOWN STRAPS IN THE LONGITUDINAL OR TRANSVERSE DIRECTION CAN BE BOLTED TO THE HITCH ATTACHMENT PLATE THAT IS WELDED TO THE CHASSIS BEAM.



FOUNDATION NOTES:

1. FOUNDATION REVIEW & INSPECTION IS TO BE PERFORMED BY THE LOCAL HAVING JURISDICTION.
2. PROVIDE POSITIVE DRAINAGE UNDER UNIT.
3. UNIT MAY BE SHIMMED AS REQUIRED W/ FLAT MTL SHIMS PLATE BETWEEN TOP OF PIER & MODULAR UNIT FRAME.
4. FOUNDATION DESIGN IS BASED ON IBC 2015.
5. ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED 1500 PSF.
6. MINUTE MAN EARTH ANCHOR OR EQUAL SHALL HAVE A MINIMUM LOAD CAPACITY OF 3150 LBS.
7. EACH ANCHOR SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
8. PROVIDE MINIMUM CRAWL SPACE ACCESS AS REQUIRED.
9. ALL DIMENSIONS SHALL BE FIELD VERIFIED.
10. REFER TO SHEET FOR PORTABLE BUILDING DETAILS.

ABS PAD NOTES:

1. CLEAR ALL VEGETATION & DEBRIS FROM THE AREA WHERE THE ABS PAD ARE TO BE PLACED.
2. GROUND UNDER ABS PAD SHALL BE LEVELED & EVENLY COMPACTED.
3. PLACE ABS PAD W/ GRID SIDE UP, SMOOTH SIDE DOWN

LEGEND:

INDICATES MMA-86 860-DH 3/4 MINUTE MAN EARTH ANCHOR LOCATIONS

1 TYPICAL PORTABLE BUILDING FOUNDATION PLAN
1/4" = 1'-0"

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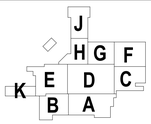

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
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Kubala Engineers
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02/17/2025

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

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PORTABLE BUILDING - GENERAL NOTES AND TYPICAL FOUNDATION PLAN

S-800

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PORTABLE BUILDING - 1-3 - WALKWAY, STAIRS AND RAMPS FRAMING PLAN
S-801
FOR BLUEBEAM LABELING/OCR:

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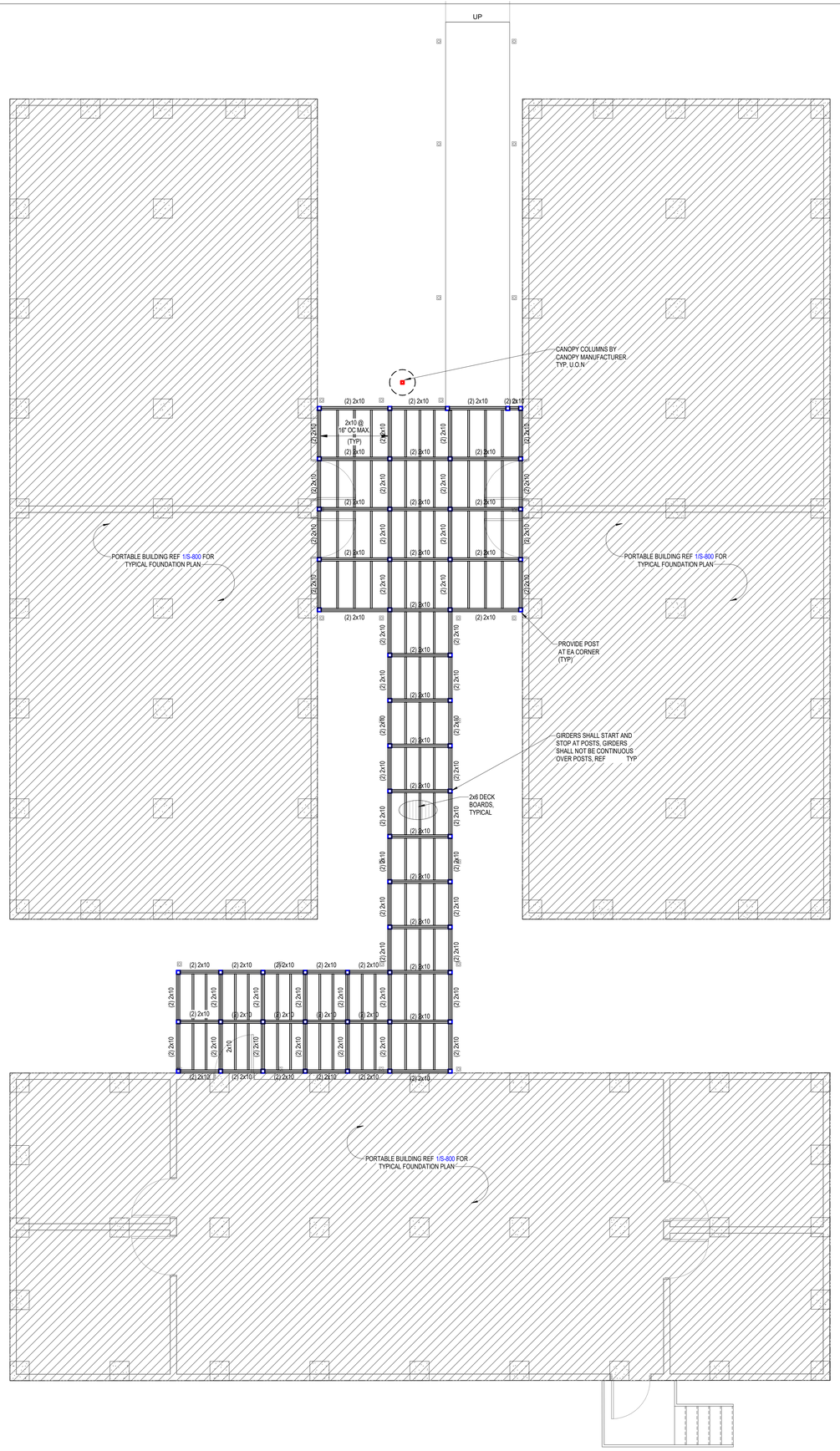
LEGEND

- CANOPY COLUMN
- 4X4 TIMBER COLUMN

IF POST SPACING IS INTERRUPTED BY CANOPY COLUMN, SPACING BETWEEN CANOPY COLUMNS AND POSTS SHALL NOT EXCEED 8'-0" OC MAX. REFER TO CANOPY MFR FOR REQUIRED SPACING OF CANOPY COLUMNS, REF 2/S-810



FRAMING PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = XXX'-XX".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
7. TOS EL = BOTTOM OF DECK.
8. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
9. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
10. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
11. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.
13. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS OF RAMPS AND STAIRS.
14. ALL WOOD TO BE No. 2 GRADE SOUTHERN YELLOW PINE (TREATED)
15. ALL BOLTS, NAILS AND ALL OTHER MISCELLANEOUS FASTENERS TO BE HOT DIP GALVANIZED (TYP)
16. ANY AND ALL WOOD HANGERS TO BE SIMPSO STRONG-TIE OR APPROVED EQUAL AND TO BE HOT-DIP GALVANIZED, (TYP)

1 PORTABLE BUILDING 1-3 WALKWAY STAIRS & RAMPS FRAMING PLAN
1/4" = 1'-0"

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KEY PLAN
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DATE	PROJECT NUMBER
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DRAWING HISTORY

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PORTABLE BUILDING - 1-3 - WALKWAY, STAIRS AND RAMPS FRAMING PLAN

S-801

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0"

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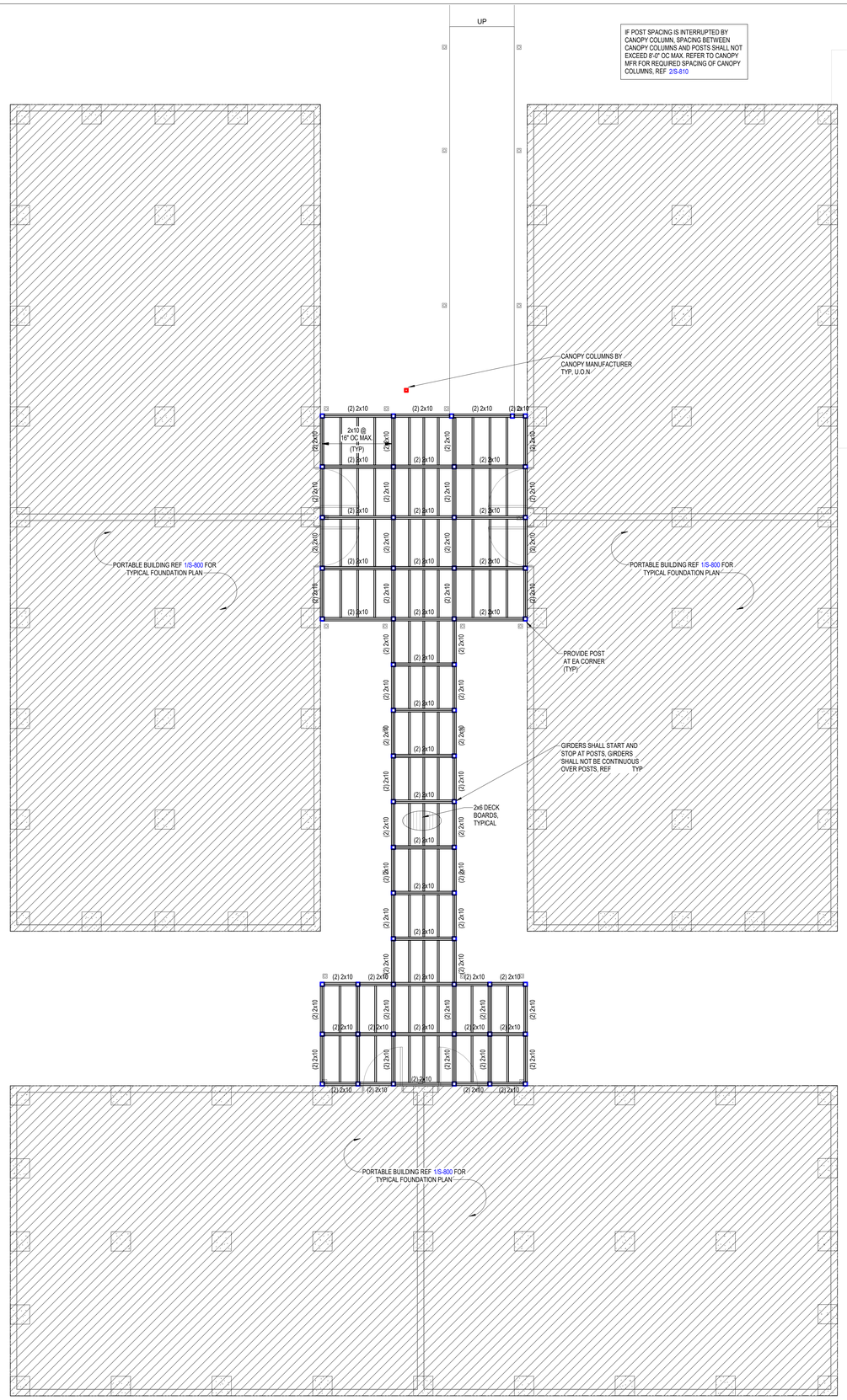
LEGEND

- CANOPY COLUMN
- 4X4 TIMBER COLUMN



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15. ALL BOLTS, NAILS AND ALL OTHER MISCELLANEOUS FASTENERS TO BE HOT DIP GALVANIZED (TYP)
16. ANY AND ALL WOOD HANGERS TO BE SIMPSO STRONG-TIE OR APPROVED EQUAL AND TO BE HOT-DIP GALVANIZED, (TYP)

1 PORTABLE BUILDING 4-6 WALKWAY STAIRS & RAMPS FRAMING PLAN
1/4" = 1'-0"

Kubala ENGINEERS
Ph: (800)248-3674
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TX. REG. NO. F-23612

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TBD
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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J
H G F
K E D C
B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
02/17/2025
Kubala Engineers
F-23612

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

PORTABLE BUILDING - 4-6 - WALKWAY, STAIRS AND RAMPS FRAMING PLAN

S-802

ISSUE FOR PROPOSAL

PORTABLE BUILDING - 4-6 - WALKWAY, STAIRS AND RAMPS FRAMING PLAN

S-802

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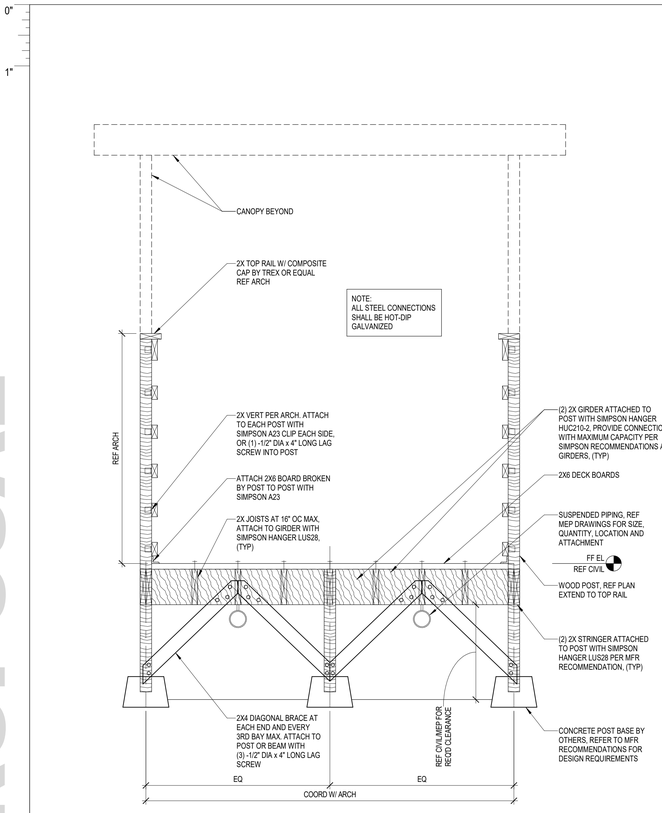
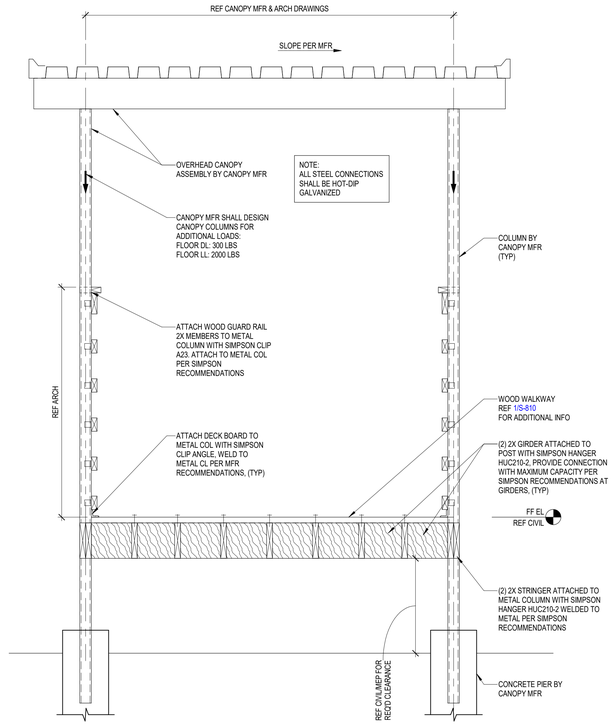
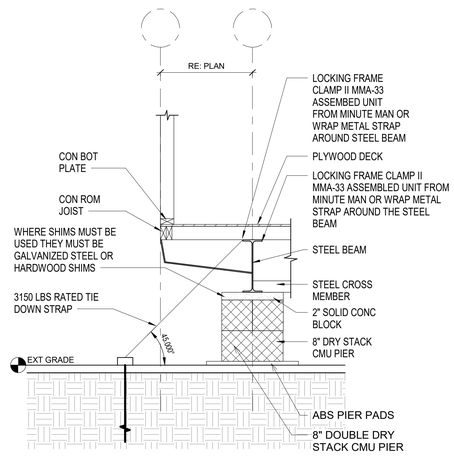


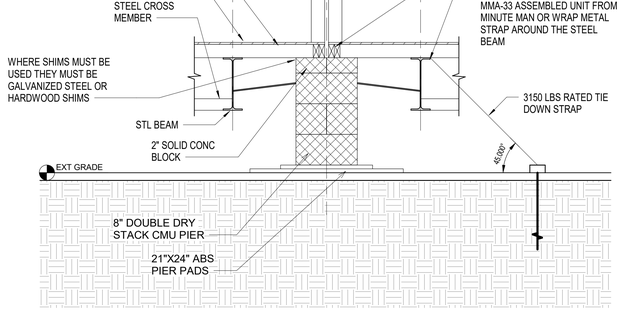
1 TYPICAL WOOD WALKWAY DETAIL
3/4" = 1'-0"



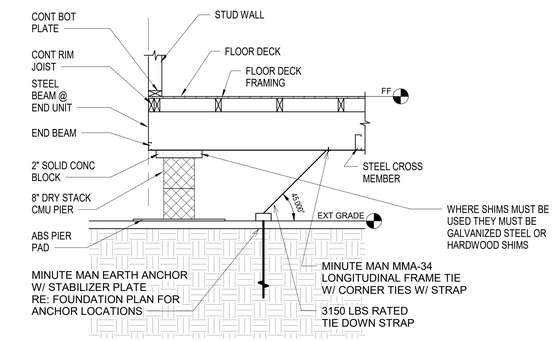
2 TYPICAL METAL CANOPY DETAIL
3/4" = 1'-0"



3 PORTABLE BUILDING OUTRIGGER SECTION
3/4" = 1'-0"



4 PORTABLE BUILDING COLUMN MATELINE SECTION
3/4" = 1'-0"



5 PORTABLE BUILDING END WALL SECTION
3/4" = 1'-0"

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CONSULTANT NAME
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Arnold Middle School
11111 TELGE RD.
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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT

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KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED
PROFESSIONAL ENGINEER
02/17/2025
Kubala Engineers
F-23612

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

PORTABLE BUILDING - WALKWAY, STAIRS AND RAMPS FRAMING DETAILS

S-810

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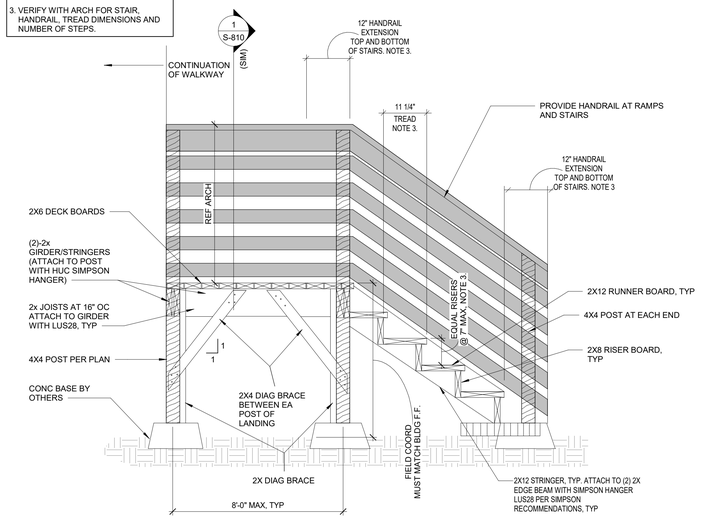
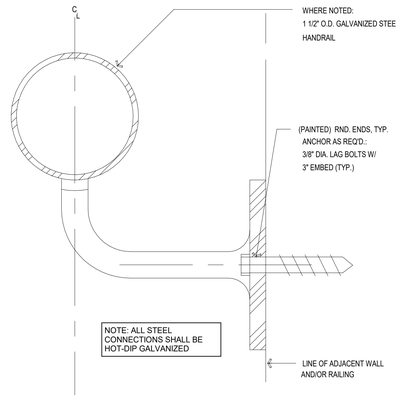
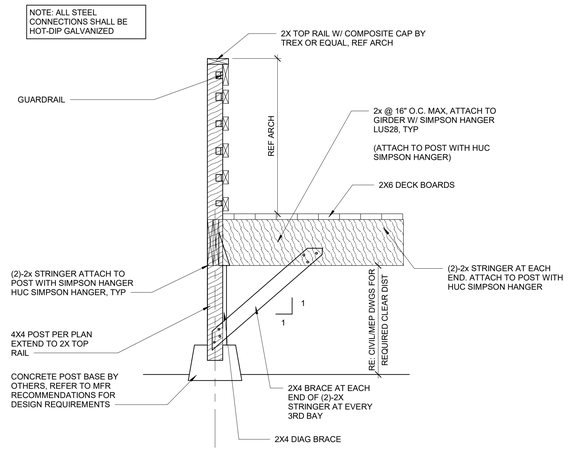


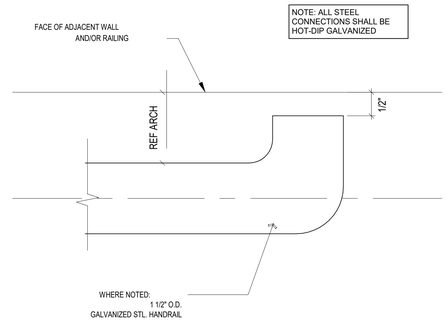
1 TYP SECTION AT STAIRS
1/4" = 1'-0"



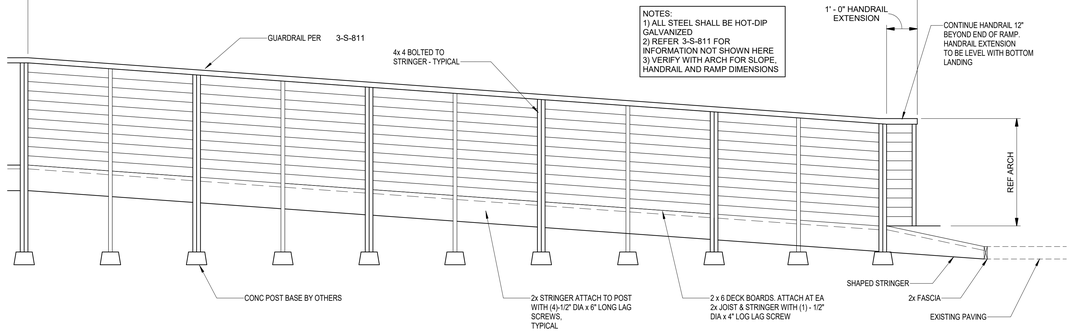
2 HANDRAIL DETAIL
1/4" = 1'-0"



3 GUARDRAIL DETAIL
3/4" = 1'-0"



4 HANDRAIL DETAIL
1/4" = 1'-0"



5 RAMP ELEVATION
1/2" = 1'-0"

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STATE OF TEXAS
JOHN R. KUBALA
106120
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02/17/2025
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F-23612

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DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER
PORTABLE BUILDING - WALKWAY ELEVATIONS, SECTIONS AND DETAILS

S-811

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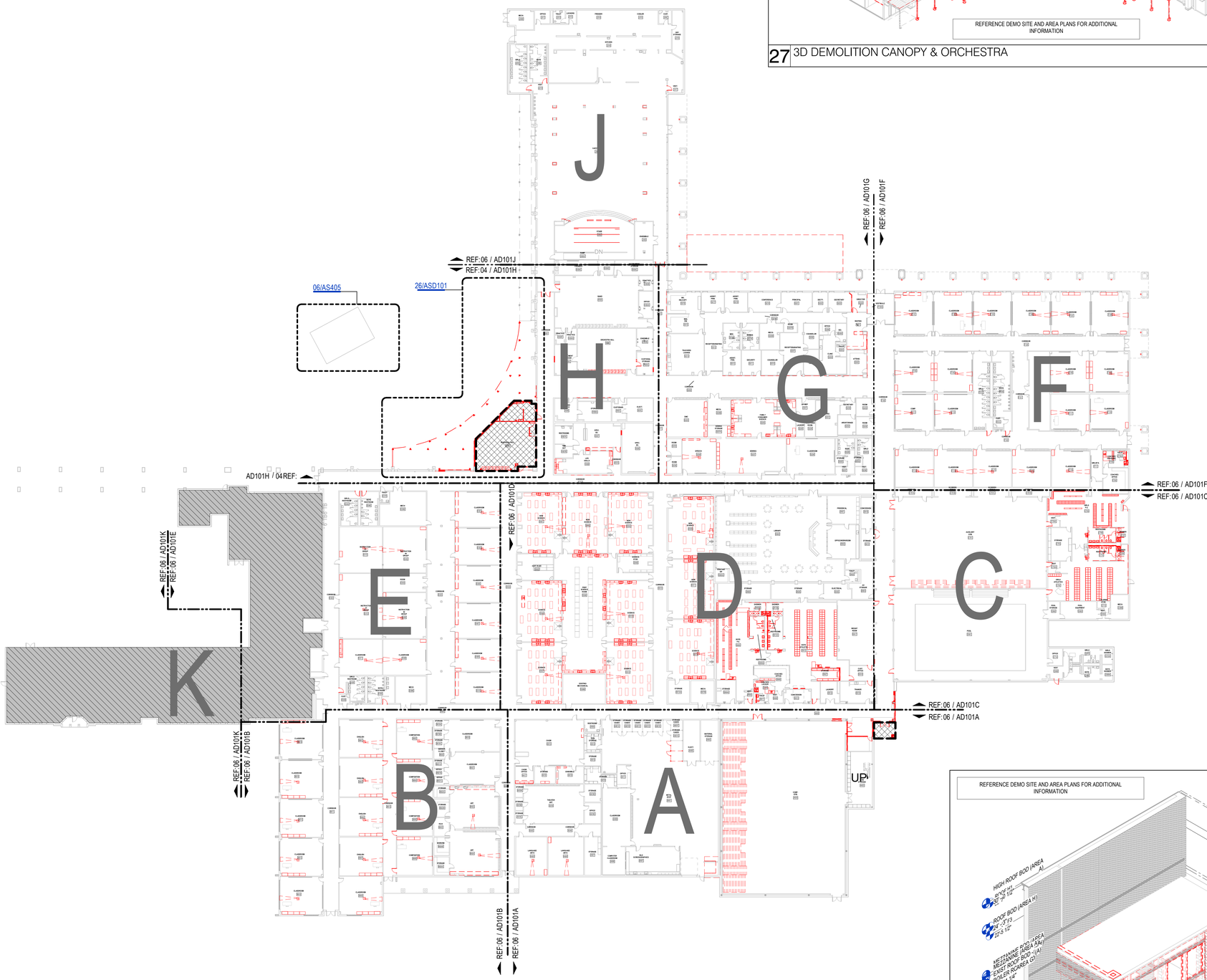
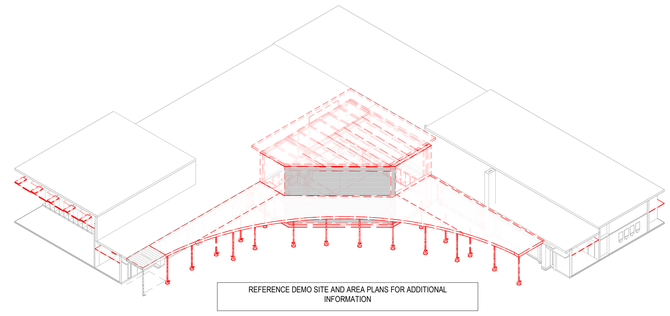
0"
1"

GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE, PRIOR TO ANY WORK TAKING PLACE. GENERAL CONTRACTOR SHALL PROTECT, PRESERVE AND CLEAN ALL EXISTING CONDITIONS AND SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.

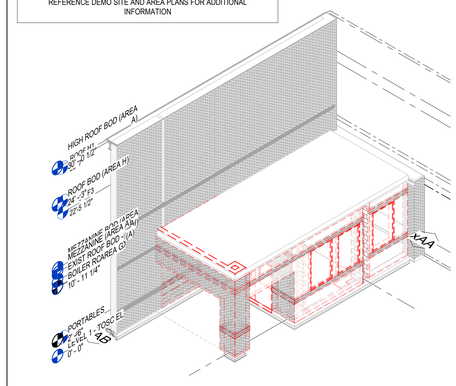


06 1ST LEVEL - DEMOLITION FLOOR PLAN - COMPOSITE
1" = 30'-0"



REFERENCE DEMO SITE AND AREA PLANS FOR ADDITIONAL INFORMATION

27 3D DEMOLITION CANOPY & ORCHESTRA



02 3D - RESTROOM DEMO

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

13 GENERAL DEMOLITION NOTES

- EXISTING PARTITION TO REMAIN
- DEMO FOUNDATION RE: STRUCTURE FOR EXTENTS
- DEMO FLOORING AND BASE
- DEMO WALL
- DEMO FLOORING, CEILING & LIGHTING SYSTEMS
- DEMO CEILING & LIGHTING
- DEMO DOOR
- DOOR IN SCOPE
- DEMO WINDOW
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- NOT IN SCOPE

07 DEMOLITION PLAN LEGEND

KEYNOTE LEGEND

NUMBER	DESCRIPTION

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T-713-540-3300
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T-281-556-2223
POOL/AQUATICS CONSULTANT NAME
T-000-000-0000

Arnold Middle School
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CYPRESS, TX 77429
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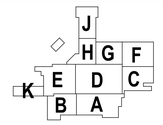
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT BRANDON D. GRAY 27340 STATE OF TEXAS
01.20.2025

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR DEMOLITION PLAN - COMPOSITE

AD101

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1ST FLOOR DEMOLITION PLAN - AREA A

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10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE, PRIOR TO ANY WORK TAKING PLACE. ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE CLEANED, PATCHED AND PREPPED TO RECEIVE NEW PAINT. PROTECT ALL EXISTING WIDOW FRAMES, DOOR PANELS AND FRAMES DURING AND AFTER CONSTRUCTION. GENERAL CONTRACTOR SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.

ALL EXISTING ROOM SIGNAGE AND WAY FINDING TO BE DEMOED. CLEAN, PREP AND PATCH WALL AS REQ. TO RECEIVE NEW ROOM SIGNAGE IN SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL .

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING WALL TO RECEIVE NEW TILE TO BE CLEAN, PATCHED AND PREPPED TO RECEIVE PAINT FINISH THROUGHOUT CAMPUS. G.C. SHALL REMOVE ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, GRAPHICS, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATED W/ CAMPUS PRIOR TO REMOVAL.
RE: MEPT FOR ADDITIONAL DEMOLITION SCOPE

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

ALL EXISTING MASONRY WALLS NOTED TO RECEIVE NEW WALL TILE TO BE STRIPED, CLEANED AND PREPPED TO RECEIVE NEW WALL TILE.

ALL EXISTING CORRIDOR STUD WALLS WITH TILE NOTED TO BE DEMOED SHALL RECEIVE NEW 5/8" TILE BACKER BOARD. G.C. TO REPLACE ANY DAMAGED STUDS AS REQ'D DURING DEMOLITION G.C. TO FIELD VERIFY.

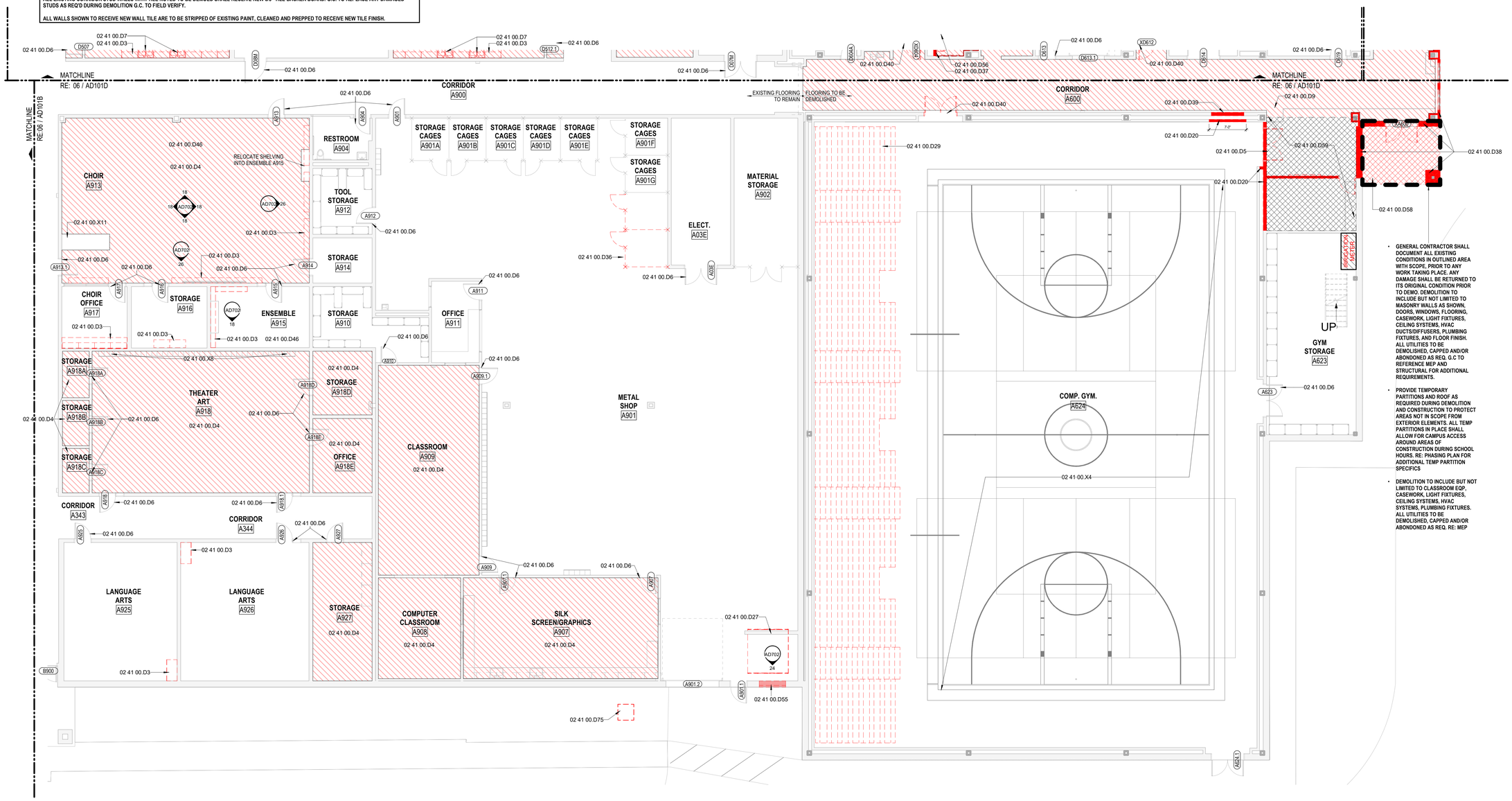
ALL WALLS SHOWN TO RECEIVE NEW WALL TILE ARE TO BE STRIPPED OF EXISTING PAINT, CLEANED AND PREPPED TO RECEIVE NEW TILE FINISH.

27 DEMOLITION PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- DEMO FOUNDATION RE: STRUCTURE FOR EXTENTS
- DEMO FLOORING AND BASE
- DEMO WALL
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- NOT IN SCOPE
- DEMO FLOORING, CEILING & LIGHTING SYSTEMS
- DEMO CEILING & LIGHTING
- DEMO DOOR
- DOOR IN SCOPE
- DEMO WINDOW

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D3	DEMOLISH EXISTING CASEWORK AND BASE. AT AREAS WITH FLOORING UNDERNEATH CASEWORK, FLOORING TO BE DEMOLISHED UDERNEATH CASEWORK ONLY. PREP FOR NEW CASEWORK AND BASE, TYP. NEW CASEWORK TO MATCH EXISTING CASEWORK FOOTPRINT/LOCATION. G.C TO FIELD VERIFY DIMENSIONS AND LOCATIONS PRIOR TO FABRICATION.
02 41 00.D4	DEMO EXISTING FLOORING AND BASE. PREP FLOOR TO RECIEVE NEW FLOORING. RE:FINISH PLANS FOR NEW FINISH.
02 41 00.D5	EXISTING DOOR AND FRAME TO BE DEMOLISHED. PATCH AND INFILL WALL TO MATCH EXISTING PARTITION AND FINISH.
02 41 00.D6	DEMO EXISTING DOOR HARDWARE AND PREP FOR NEW HARDWARE. COORDINATE W/ HARDWARE SPEC TO DETERMINE DEMO EXTENTS. RE:HARDWARE SPEC/DOOR SCHEDULE.
02 41 00.D7	DEMOLISH EXISTING CASEWORK, BASE AND SINK. PREP FOR NEW CASEWORK, BASE AND SINK. CAP OFF UTILITIES AS REQ.
02 41 00.D9	DEMOLISH EXISTING TILE FLOORING AND PREP FOR NEW TILE FLOORING. RE: FINISH PLANS.
02 41 00.D20	DEMOLISH EXISTING MASONRY WALL AT SHOWN EXTENTS AND PREP FOR NEW CONSTRUCTION. RE: STRUCTURE
02 41 00.D27	DEMOLISH EXISTING PAINT BOOTH AND ALL ASSOCIATED MECH EQP. ALL RELATED ROOF AND WALL PENETRATIONS/OPENINGS TO PATCHED AND INFILLED TO MATCH ADJACENT CONSTRUCTION AND FINISH. FIELD VERIFY EXTENTS. ANY ROOF PATCHES MUST BE FULLY PATCHED AND INFILLED TO MATCH ADJACENT ROOF CONSTRUCTION.
02 41 00.D29	DEMO EXSITING GYM BLEACHERS AND PREP FOR NEW RETRACTABLE BLEACHERS. EXISTING GYM FLOOR TO BE PROTECTED IN PLACE DURING DEMOLITION.
02 41 00.D36	DEMOLISH EXISTING WIRE MESH PARTITION SYSTEM. PREP AND PATCH FLOOR/WALL AND ADJACENT WIRE MESH PARTITIONS AS REQUIRED TO RECEIVE NEW PAINT BOOTH.
02 41 00.D37	DEMOLISH ALL EXISTING WALL TILE AND FLOOR TILE WITHIN ROOM AND PREP FOR NEW WALL FINISH. DEMO ALL TOILET/SINK ACCESSORIES WITHIN ROOM. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D38	DEMOLISH EXISTING EXTERIOR WALL AND PREP FOR NEW CONSTRUCTION
02 41 00.D39	DEMOLISH EXISTING WALL AT SHOWN EXTENTS AND PREP FOR NEW DOOR OPENING. RE: DOOR SCHEDULE
02 41 00.D40	DEMOLISH EXISTING DOOR AND PREP FOR NEW. EXISTING FRAME TO BE PROTECTED IN PLACE. PATCH, REPAIR AND PREP FRAME AS REQ'D FOR NEW HARDWARE AND PAINT. DEMO MAG HOLD OPENS AND PATCH WALL AS REQ'D.
02 41 00.D46	DEMOLISH EXISTING TECTUM ACOUSTICAL WALL PANEL SYSTEM IN ENTIRE ROOM. PREP AND PATCH WALL TO RECEIVE PAINT FINISH. RE: FINISH SCHEDULE
02 41 00.D55	DEMOLISH EXISTING 60" X 60" MAKE UP AIR LOUVER AND INFILL W/ CMU, WRB, CONTINIOUS INSULATION, AND BRICK FINISH. REFERENCE BUILDING ENVELOPE DETAILS FOR ADDITIONAL INFORMATION.
02 41 00.D56	DEMOLISH EXISTING PLUMBING FIXTURE AND PREP FOR NEW, TYP. RE: PLUMBING FOR ADDITIONAL
02 41 00.D58	DEMOLISH EXISTING SIDEWALK PAVING AND PREP FOR NEW FOUNDATION RE: STRUCT. G.C TO SURVEY EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION
02 41 00.D59	DEMOLISH EXISTING FOUNDATION AS REQ'D TO INSTALL UNDERGROUND PLUMBING FOR NEW RESTROOM ADDITION. REFERENCE STRUCTURAL FOR DEMOLITION DETAILS AND PLUMBING DWG FOR PROPOSED SCOPE.
02 41 00.D75	DEMO EXISTING DUST COLLECTOR. RE: MECH FOR ADDITIONAL INFORMATION
02 41 00.X4	EXISTING GYM FLOORING TO BE STRIPPED DOWN AND PREPPED FOR REFINISHING/STRIPING. NEW STRIPING TO MATCH EXISTING LAYOUT. ADJACENT SPACES TO BE PROTECTED AND CLEANED DURING AND AFTER CONSTRUCTION. RE: SPECS.
02 41 00.X8	EXISTING LOCKERS TO REMAIN, PROTECT IN PLACE.
02 41 00.X11	EXISTING CASEWORK TO REMAIN AND BE PROTECTED IN PLACE.



- GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN OUTLINED AREA WITH SCOPE, PRIOR TO ANY WORK TAKING PLACE. ANY DAMAGE SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO DEMO. DEMOLITION TO INCLUDE BUT NOT LIMITED TO MASONRY WALLS AS SHOWN, DOORS, WINDOWS, FLOORING, CASEWORK, LIGHT FIXTURES, CEILING SYSTEMS, HVAC DUCTS/DIFFUSERS, PLUMBING FIXTURES, AND FLOOR FINISH. ALL UTILITIES TO BE DEMOLISHED, CAPPED AND/OR ABONDONED AS REQ. G.C TO REFERENCE MEP AND STRUCTURAL FOR ADDITIONAL REQUIREMENTS.
- PROVIDE TEMPORARY PARTITIONS AND ROOF AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO PROTECT AREAS NOT IN SCOPE FROM EXTERIOR ELEMENTS. ALL TEMP PARTITIONS IN PLACE SHALL ALLOW FOR CAMPUS ACCESS AROUND AREAS OF CONSTRUCTION DURING SCHOOL HOURS. RE: PHASING PLAN FOR ADDITIONAL TEMP PARTITION SPECIFICS
- DEMOLITION TO INCLUDE BUT NOT LIMITED TO CLASSROOM EQP, CASEWORK, LIGHT FIXTURES, CEILING SYSTEMS, HVAC SYSTEMS, PLUMBING FIXTURES. ALL UTILITIES TO BE DEMOLISHED, CAPPED AND/OR ABONDONED AS REQ. RE: MEP

06 1ST LEVEL - DEMOLITION FLOOR PLAN - AREA A

1/8" = 1'-0"

PBK

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POOL/AQUATICS CONSULTANT NAME
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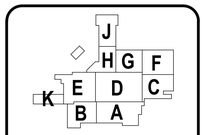
Arnold Middle School
11111 TEL GF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION PLAN - AREA A

AD101A

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

CHECKED BY: Checker
DRAWN BY: Author
Plot Stamp: 2/14/2025 8:21:12 AM

0"
1"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

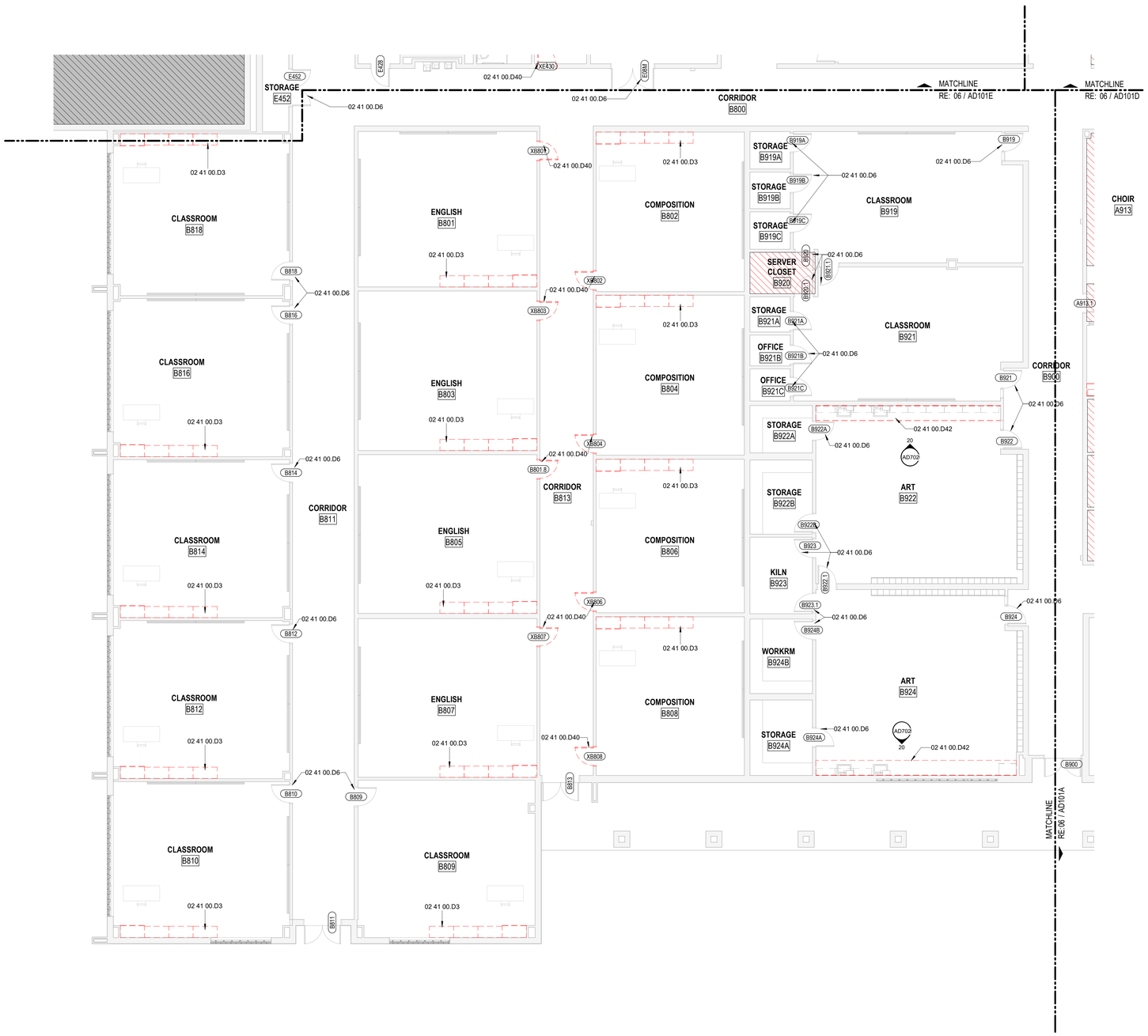
- EXISTING PARTITION TO REMAIN
- DEMO FOUNDATION RE: STRUCTURE FOR EXTENTS
- DEMO FLOORING AND BASE
- DEMO WALL
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- NOT IN SCOPE
- DEMO FLOORING, CEILING & LIGHTING SYSTEMS
- DEMO CEILING & LIGHTING
- DEMO DOOR
- DOOR IN SCOPE
- DEMO WINDOW

27 DEMOLITION PLAN LEGEND

26 KEYNOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D3	DEMOLISH EXISTING CASEWORK AND BASE, AT AREAS WITH FLOORING UNDERNEATH CASEWORK, FLOORING TO BE DEMOLISHED UDERNEATH CASEWORK ONLY. PREP FOR NEW CASEWORK AND BASE, TYP. NEW CASEWORK TO MATCH EXISTING CASEWORK FOOTPRINT/LOCATION. G.C TO FIELD VERIFY DIMENSIONS AND LOCATIONS PRIOR TO FABRICATION.
02 41 00.D6	DEMO EXISTING DOOR HARDWARE AND PREP FOR NEW HARDWARE. COORDINATE W/ HARDWARE SPEC TO DETERMINE DEMO EXTENTS. RE:HARDWARE SPEC/DOOR SCHEDULE.
02 41 00.D40	DEMOLISH EXISTING DOOR AND PREP FOR NEW. EXISTING FRAME TO BE PROTECTED IN PLACE. PATCH, REPAIR AND PREP FRAME AS REQ'D FOR NEW HARDWARE AND PAINT. DEMO MAG HOLD OPENS AND PATCH WALL AS REQ'D
02 41 00.D42	DEMO EXISTING COUNTERTOP AND BACKSPLASH. PREP EXISTING CASEWORK TO RECEIVE NEW BACKSPLASH AND COUNTERTOP. PROTECT EXISTING CASEWORK AND PLUMBING FIXTURE IN PLACE. EXISTING SINKS TO BE SALVAGED STORED AND PREPPED FOR REINSTALLATION AT SAME LOCATION.



06 1ST LEVEL - DEMOLITION FLOOR PLAN - AREA B

1/8" = 1'-0"

GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE. PRIOR TO ANY WORK TAKING PLACE. ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE CLEANED, PATCHED AND PREPPED TO RECEIVE NEW PAINT. PROTECT ALL EXISTING WIDOW FRAMES, DOOR PANELS AND FRAMES DURING AND AFTER CONSTRUCTION. GENERAL CONTRACTOR SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.

ALL EXISTING ROOM SIGNAGE AND WAY FINDING TO BE DEMOED. CLEAN, PREP AND PATCH WALL AS REQ. TO RECEIVE NEW ROOM SIGNAGE IN SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL .

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING WALL TO RECEIVE NEW TILE TO BE CLEAN, PATCHED AND PREPPED TO RECEIVE PAINT FINISH THROUGHOUT CAMPUS. G.C. SHALL REMOVE ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, GRAPHICS, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATED W/ CAMPUS PRIOR TO REMOVAL.
RE: MEPT FOR ADDITIONAL DEMOLITION SCOPE

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

ALL EXISTING MASONRY WALLS NOTED TO RECEIVE NEW WALL TILE TO BE STRIPED, CLEANED AND PREPPED TO RECEIVE NEW WALL TILE.

ALL EXISTING CORRIDOR STUD WALLS WITH TILE NOTED TO BE DEMOED SHALL RECEIVE NEW 5/8" TILE BACKER BOARD. G.C. TO REPLACE ANY DAMAGED STUDS AS REQ'D DURING DEMOLITION G.C. TO FIELD VERIFY.

ALL WALLS SHOWN TO RECEIVE NEW WALL TILE ARE TO BE STRIPPED OF EXISTING PAINT, CLEANED AND PREPPED TO RECEIVE NEW TILE FINISH.

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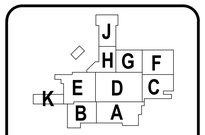
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT JAMES D. HOLT 27149 STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION PLAN - AREA B

AD101B

ISSUE FOR PROPOSAL

1ST FLOOR DEMOLITION PLAN - AREA B
AD101B
FOR BLUEBEAM LABELING/OCR:

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

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1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

- EXISTING PARTITION TO REMAIN
- DEMO FOUNDATION RE: STRUCTURE FOR EXTENTS
- DEMO FLOORING AND BASE
- DEMO WALL
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION*
- NOT IN SCOPE
- DEMO FLOORING, CEILING & LIGHTING SYSTEMS
- DEMO CEILING & LIGHTING
- DEMO DOOR
- DOOR IN SCOPE
- DEMO WINDOW

27 DEMOLITION PLAN LEGEND

26 KEYNOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D4	DEMO EXISTING FLOORING AND BASE. PREP FLOOR TO RECIEVE NEW FLOORING. RE:FINISH PLANS FOR NEW FINISH.
02 41 00.D6	DEMO EXISTING DOOR HARDWARE AND PREP FOR NEW HARDWARE. COORDINATE W/ HARDWARE SPEC TO DETERMINE DEMO EXTENTS. RE:HARDWARE SPEC/DOOR SCHEDULE.
02 41 00.D8	DEMOLISH TOILET PARTITIONS AND WALL TILE. PREP FOR NEW TOILET PARTITION AND WALL TILE.
02 41 00.D9	DEMOLISH EXISTING TILE FLOORING AND PREP FOR NEW TILE FLOORING. RE: FINISH PLANS.
02 41 00.D18	DEMOLISH EXISTING DOOR AND FRAME. PREP OPENING FOR NEW DOOR. RE: SCHEDULE
02 41 00.D25	DEMOLISH EXISTING WALL TILE AND PREP FOR NEW WALL FINISH. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D29	DEMO EXISTING GYM BLEACHERS AND PREP FOR NEW RETRACTABLE BLEACHERS. EXISTING GYM FLOOR TO BE PROTECTED IN PLACE DURING DEMOLITION.
02 41 00.D32	DEMO EXISTING LOCKERS AND BASE, TYP.
02 41 00.D34	DEMO EXISTING LOCKER BENCHES, TYP.
02 41 00.D37	DEMOLISH ALL EXISTING WALL TILE AND FLOOR TILE WITHIN ROOM AND PREP FOR NEW WALL FINISH. DEMO ALL TOILET/SINK ACCESSORIES WITHIN ROOM. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D40	DEMOLISH EXISTING DOOR AND PREP FOR NEW. EXISTING FRAME TO BE PROTECTED IN PLACE. PATCH, REPAIR AND PREP FRAME AS REQ'D FOR NEW HARDWARE AND PAINT. DEMO MAG HOLD OPENS AND PATCH WALL AS REQ'D.
02 41 00.D41	DMEOLISH EXISTING WINDOW SYSTEM AND ADJACENT MASONRY WALL AS REQ'D TO PREP FOR NEW DOOR OPENING. RE: SCHEDULE
02 41 00.D56	DEMOLISH EXISTING PLUMBING FIXTURE AND PREP FOR NEW, TYP. RE: PLUMBING FOR ADDITIONAL
02 41 00.D57	DEMOLISH ALL SHOWER FIXTURES/CONTROLS, BENCHES AND CURTAINS WITHIN SHOWER AREA. PREP/PATCH WALL AS REQ FOR NEW, TYP. RE: PLUMBING FOR ADDITIONAL
02 41 00.D60	DEMOLISH EXISTING FOUNDATION AS REQ'D TO INSTALL NEW FLOOR DRAINS AS REQ'D. REFERENCE STRUCTURAL FOR DEMOLITION DETAILS, EXTENTS AND PLUMBING DWG FOR PROPOSED SCOPE.
02 41 00.D67	CLEAN AND PREP EXISTING TECTUM WALL PANELS WITHIN ROOM TO RECEIVE NEW PAINT.
02 41 00.D77	DEMO EXISTING HAND DRYER AND PREP FOR NEW. PATCH ANFD PREP WALL AS REQ'D
02 41 00.D82	DEMO EXISTING DRINKING FOUNTAIN AND ADJACENT WALL AS REQ'D. PREP FOR NEW DRINKING FOUNTAIN RE: PLUMBING
02 41 00.X4	EXISTING GYM FLOORING TO BE STRIPPED DOWN AND PREPPED FOR REFINISHING/STRIPING. NEW STRIPING TO MATCH EXISTING LAYOUT. ADJACENT SPACES TO BE PROTECTED AND CLEANED DURING AND AFTER CONSTRUCTION. RE: SPECS.
02 41 00.X6	ALL EXISTING VOLLEYBALL SLEEVE COVERS TO BE REMOVED AND REPLACED WITH NEW AT EXISTING LOCATION. COORDINATE REPLACEMENT WITH FLOORING REFINISHING. G.C TO FIELD VERIFY CONDITIONS PRIOR TO COMMENCING.

GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE, PRIOR TO ANY WORK TAKING PLACE. ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE CLEANED, PATCHED AND PREPPED TO RECEIVE NEW PAINT. PROTECT ALL EXISTING WIDOW FRAMES, DOOR PANELS AND FRAMES DURING AND AFTER CONSTRUCTION. GENERAL CONTRACTOR SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.

ALL EXISTING ROOM SIGNAGE AND WAY FINDING TO BE DEMOED. CLEAN, PREP AND PATCH WALL AS REQ. TO RECEIVE NEW ROOM SIGNAGE IN SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL .

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RE: MEPT FOR ADDITIONAL DEMOLITION SCOPE

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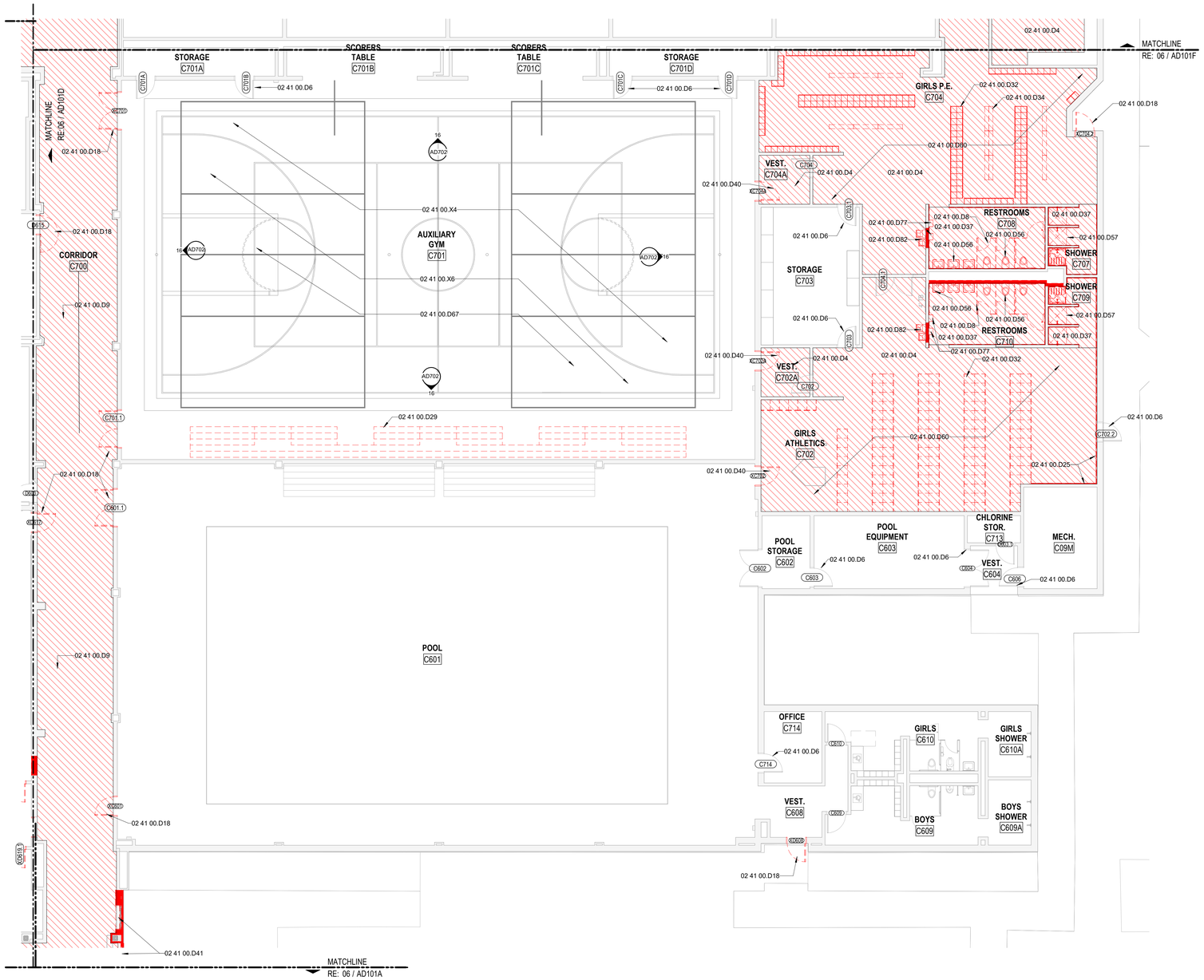
ALL WALLS SHOWN TO RECEIVE NEW WALL TILE ARE TO BE STRIPPED OF EXISTING PAINT, CLEANED AND PREPPED TO RECEIVE NEW TILE FINISH.



06 1ST LEVEL - DEMOLITION FLOOR PLAN - AREA C
1/8" = 1'-0"

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POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION PLAN - AREA C

AD101C

ISSUE FOR PROPOSAL

0" 1"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
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16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

27 DEMOLITION PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- DEMO FOUNDATION RE: STRUCTURE FOR EXTENTS
- DEMO FLOORING AND BASE
- DEMO WALL
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- NOT IN SCOPE
- DEMO FLOORING, CEILING & LIGHTING SYSTEMS
- DEMO CEILING & LIGHTING
- DEMO DOOR
- DOOR IN SCOPE
- DEMO WINDOW

26 KEYNOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D3	DEMOLISH EXISTING CASEWORK AND BASE, AT AREAS WITH FLOORING UNDERNEATH CASEWORK, FLOORING TO BE DEMOLISHED UDERNEATH CASEWORK ONLY. PREP FOR NEW CASEWORK AND BASE, TYP. NEW CASEWORK TO MATCH EXISTING CASEWORK FOOTPRINT/LOCATION. G.C TO FIELD VERIFY DIMENSIONS AND LOCATIONS PRIOR TO FABRICATION.
02 41 00.D4	DEMO EXISTING FLOORING AND BASE. PREP FLOOR TO RECIEVE NEW FLOORING. RE:FINISH PLANS FOR NEW FINISH.
02 41 00.D6	DEMO EXISTING DOOR HARDWARE AND PREP FOR NEW HARDWARE. COORDINATE W/ HARDWARE SPEC TO DETERMINE DEMO EXTENTS. RE:HARDWARE SPEC/DOOR SCHEDULE.
02 41 00.D7	DEMOLISH EXISTING CASEWORK, BASE AND SINK. PREP FOR NEW CASEWORK, BASE AND SINK. CAP OFF UTILITIES AS REQ.
02 41 00.D8	DEMOLISH TOILET PARTITIONS AND WALL TILE. PREP FOR NEW TOILET PARTITION AND WALL TILE.
02 41 00.D9	DEMOLISH EXISTING TILE FLOORING AND PREP FOR NEW TILE FLOORING. RE: FINISH PLANS.
02 41 00.D16	EXISTING DOOR AND FRAME TO BE DEMOLISHED. PATCH AND INFILL CMU WALL TO MATCH EXISTING PARTITION AND FINISH. NEW CMU TO BE TOOTHED AS REQ.D. RE: AREA PLANS
02 41 00.D25	DEMOLISH EXISTING WALL TILE AND PREP FOR NEW WALL FINISH. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D32	DEMO EXISTING LOCKERS AND BASE, TYP.
02 41 00.D33	DEMO EXISTING ADA BENCH
02 41 00.D34	DEMO EXISTING LOCKER BENCHES, TYP.
02 41 00.D37	DEMOLISH ALL EXISTING WALL TILE AND FLOOR TILE WITHIN ROOM AND PREP FOR NEW WALL FINISH. DEMO ALL TOILET/SINK ACCESSORIES WITHIN ROOM. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D39	DEMOLISH EXISTING WALL AT SHOWN EXTENTS AND PREP FOR NEW DOOR OPENING. RE: DOOR SCHEDULE
02 41 00.D40	DEMOLISH EXISTING DOOR AND PREP FOR NEW. EXISTING FRAME TO BE PROTECTED IN PLACE. PATCH, REPAIR AND PREP FRAME AS REQ'D FOR NEW HARDWARE AND PAINT. DEMO MAG HOLD OPENS AND PATCH WALL AS REQ'D.
02 41 00.D44	DEMO EXISTING SCIENCE TABLES, TYP.
02 41 00.D56	DEMOLISH EXISTING PLUMBING FIXTURE AND PREP FOR NEW, TYP. RE: PLUMBING FOR ADDITIONAL
02 41 00.D57	DEMOLISH ALL SHOWER FIXTURES/CONTROLS, BENCHES AND CURTAINS WITHIN SHOWER AREA. PREP/PATCH WALL AS REQ.FOR NEW, TYP. RE: PLUMBING FOR ADDITIONAL
02 41 00.D60	DEMOLISH EXISTING FOUNDATION AS REQ'D TO INSTALL NEW FLOOR DRAINS AS REQ'D. REFERENCE STRUCTURAL FOR DEMOLITION DETAILS, EXTENTS AND PLUMBING DWG FOR PROPOSED SCOPE.
02 41 00.D73	DEMOLISH EXISTING FUR DOWN ABOVE LOCKERS AND PREP FOR NEW METAL STUD FUR DOWN WITH TILE. LOCKERS TO BE PROTECTED IN PLACE FOR DURATION OF DEMOLITION/INSTALLATION.
02 41 00.D76	DEMO EXISTING MARKER BOARD AND PREP/PATCH WALL AS REQ'D
02 41 00.D77	DEMO EXISTING HAND DRYER AND PREP FOR NEW. PATCH AND PREP WALL AS REQ'D
02 41 00.D81	DEMO EXISTING TOILET/SINK ACCESSORIES WITHIN ROOM.
02 41 00.D82	DEMO EXISTING DRINKING FOUNTAIN AND ADJACENT WALL AS REQ'D. PREP FOR NEW DRINKING FOUNTAIN RE: PLUMBING.
02 41 00.S5	SALVAGE EXISTING KITCHEN APPLIANCES WITHIN ROOM.UNINSTALL, PRESERVE, STORE AND PROTECT FOR REINSTALLATION AT SAME LOCATION.
02 41 00.X9	EXISTING EYEWASH/SHOWER TO REMAIN IN PLACE
02 41 00.X11	EXISTING CASEWORK TO REMAIN AND BE PROTECTED IN PLACE.

GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE, PRIOR TO ANY WORK TAKING PLACE. ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE CLEANED, PATCHED AND PREPPED TO RECEIVE NEW PAINT. PROTECT ALL EXISTING WIDOW FRAMES, DOOR PANELS AND FRAMES DURING AND AFTER CONSTRUCTION. GENERAL CONTRACTOR SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.

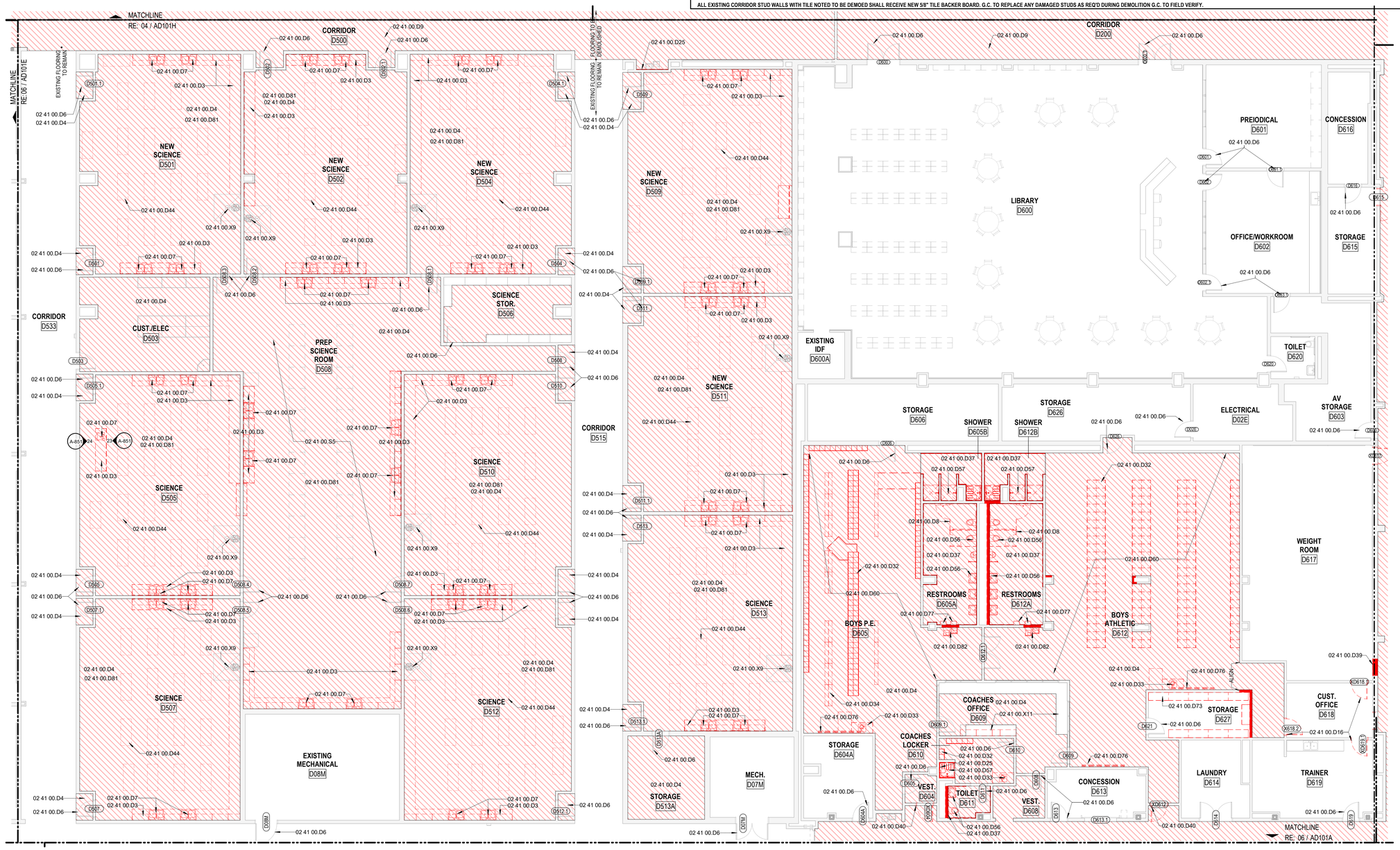
ALL EXISTING ROOM SIGNAGE AND WAY FINDING TO BE DEMOED. CLEAN, PREP AND PATCH WALL AS REQ. TO RECEIVE NEW ROOM SIGNAGE IN SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL .

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING WALL TO RECEIVE NEW TILE TO BE CLEAN, PATCHED AND PREPPED TO RECEIVE PAINT FINISH THROUGHOUT CAMPUS. G.C. SHALL REMOVE ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, GRAPHICS, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATED W/ CAMPUS PRIOR TO REMOVAL. RE: MEPT FOR ADDITIONAL DEMOLITION SCOPE

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

ALL EXISTING MASONRY WALLS NOTED TO RECEIVE NEW WALL TILE TO BE STRIPED, CLEANED AND PREPPED TO RECEIVE NEW WALL TILE.

ALL EXISTING CORRIDOR STUD WALLS WITH TILE NOTED TO BE DEMOED SHALL RECEIVE NEW 5/8" TILE BACKER BOARD. G.C. TO REPLACE ANY DAMAGED STUDS AS REQ'D DURING DEMOLITION G.C. TO FIELD VERIFY.



06 1ST LEVEL - DEMOLITION FLOOR PLAN - AREA D

1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

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Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

J H G F K E D C B A
KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT BRANDON G. MAY 27540 STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR DEMOLITION PLAN - AREA D

AD101D

0"
1"

1ST FLOOR DEMOLITION PLAN - AREA E

AD101E

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

30 GENERAL DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES , AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE . ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXITISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

27 DEMOLITION PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- DEMO FOUNDATION RE: STRUCTURE FOR EXTENTS
- DEMO FLOORING AND BASE
- DEMO WALL
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- NOT IN SCOPE
- DEMO FLOORING, CEILING & LIGHTING SYSTEMS
- DEMO CEILING & LIGHTING
- DEMO DOOR
- DOOR IN SCOPE
- DEMO WINDOW

26 KEYNOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D3	DEMOLISH EXISTING CASEWORK AND BASE. AT AREAS WITH FLOORING UNDERNEATH CASEWORK, FLOORING TO BE DEMOLISHED UDERNEATH CASEWORK ONLY. PREP FOR NEW CASEWORK AND BASE. TYP. NEW CASEWORK TO MATCH EXISTING CASEWORK FOOTPRINT/LOCATION. G.C TO FIELD VERIFY DIMENSIONS AND LOCATIONS PRIOR TO FABRICATION.
02 41 00.D6	DEMO EXISTING DOOR HARDWARE AND PREP FOR NEW HARDWARE. COORDINATE W/ HARDWARE SPEC TO DETERMINE DEMO EXTENTS. RE:HARDWARE SPEC/DOOR SCHEDULE.
02 41 00.D9	DEMOLISH EXISTING TILE FLOORING AND PREP FOR NEW TILE FLOORING. RE: FINISH PLANS.
02 41 00.D25	DEMOLISH EXISTING WALL TILE AND PREP FOR NEW WALL FINISH. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D26	DEMOLISH EXISTING WALL PANEL FINISH AND PREP FOR NEW WALL FINISH. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D40	DEMOLISH EXISTING DOOR AND PREP FOR NEW. EXISTING FRAME TO BE PROTECTED IN PLACE. PATCH, REPAIR AND PREP FRAME AS REQ'D FOR NEW HARDWARE AND PAINT. DEMO MAG HOLD OPENS AND PATCH WALL AS REQ'D.

GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE. PRIOR TO ANY WORK TAKING PLACE. ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE CLEANED, PATCHED AND PREPPED TO RECEIVE NEW PAINT. PROTECT ALL EXISTING WIDOW FRAMES, DOOR PANELS AND FRAMES DURING AND AFTER CONSTRUCTION. GENERAL CONTRACTOR SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.

ALL EXISTING ROOM SIGNAGE AND WAY FINDING TO BE DEMOED. CLEAN, PREP AND PATCH WALL AS REQ. TO RECEIVE NEW ROOM SIGNAGE IN SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL .

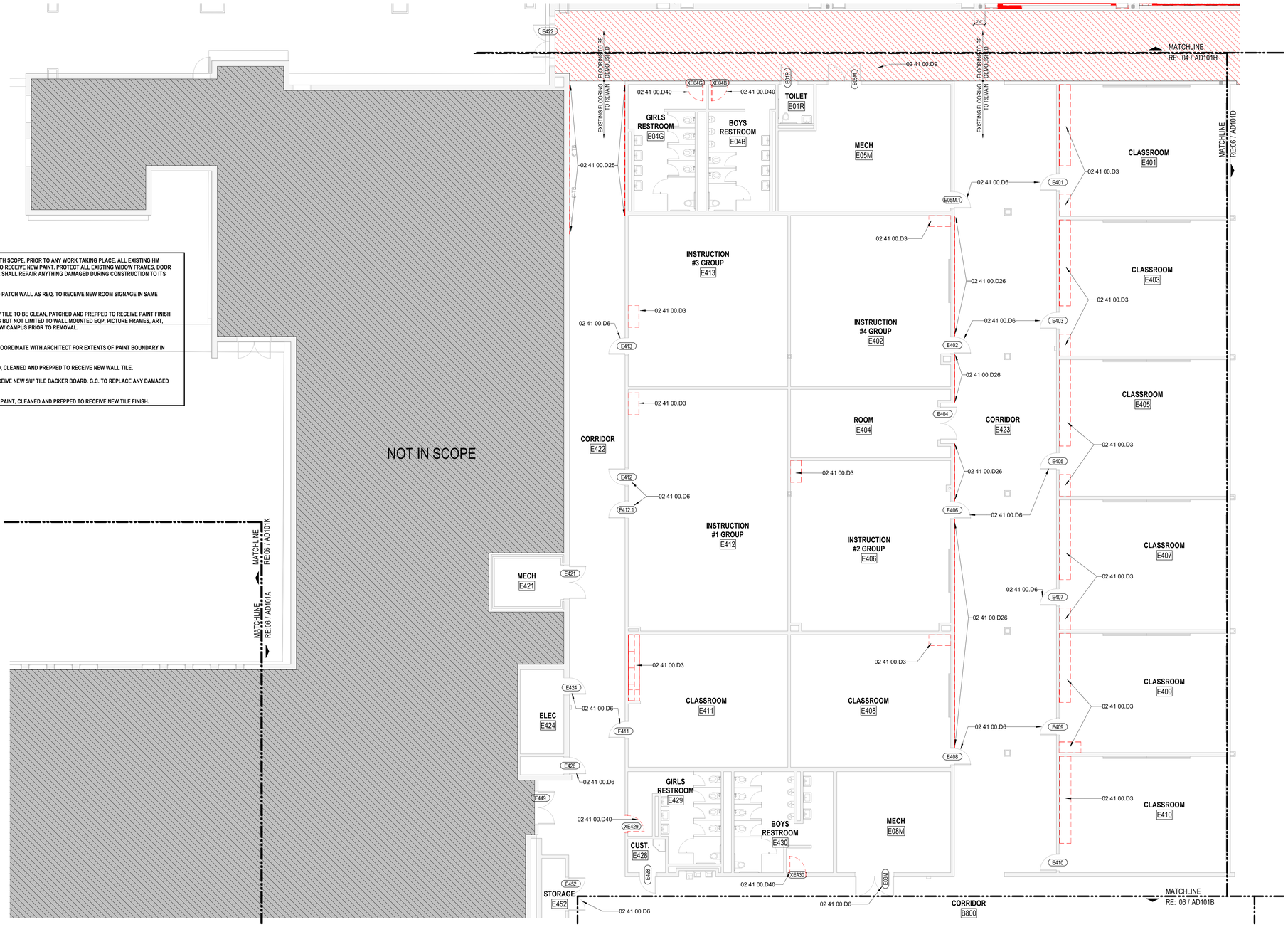
ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING WALL TO RECEIVE NEW TILE TO BE CLEAN, PATCHED AND PREPPED TO RECEIVE PAINT FINISH THROUGHOUT CAMPUS. G.C. SHALL REMOVE ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, GRAPHICS, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATED W/ CAMPUS PRIOR TO REMOVAL.
RE: MEPT FOR ADDITIONAL DEMOLITION SCOPE

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

ALL EXISTING MASONRY WALLS NOTED TO RECEIVE NEW WALL TILE TO BE STRIPED, CLEANED AND PREPPED TO RECEIVE NEW WALL TILE.

ALL EXISTING CORRIDOR STUD WALLS WITH TILE NOTED TO BE DEMOED SHALL RECEIVE NEW 5/8" TILE BACKER BOARD. G.C. TO REPLACE ANY DAMAGED STUDS AS REQ'D DURING DEMOLITION G.C. TO FIELD VERIFY.

ALL WALLS SHOWN TO RECEIVE NEW WALL TILE ARE TO BE STRIPPED OF EXISTING PAINT, CLEANED AND PREPPED TO RECEIVE NEW TILE FINISH.



06 1ST LEVEL - DEMOLITION FLOOR PLAN - AREA E

1/8" = 1'-0"

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CONSULTANT NAME
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Arnold Middle School
11111 TEL GF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
J H G F K E D C B A
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT BRANDON D. GRAY 27540 STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION PLAN - AREA E

AD101E

0" 1"

1ST FLOOR DEMOLITION PLAN - AREA F

AD101F

FOR BLUEBEAM LABELING/OCR:

PROPOSAL

ISSUE FOR P

GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE, PRIOR TO ANY WORK TAKING PLACE. ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE CLEANED, PATCHED AND PREPPED TO RECEIVE NEW PAINT. PROTECT ALL EXISTING WIDOW FRAMES, DOOR PANELS AND FRAMES DURING AND AFTER CONSTRUCTION. GENERAL CONTRACTOR SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.

ALL EXISTING ROOM SIGNAGE AND WAY FINDING TO BE DEMOED. CLEAN, PREP AND PATCH WALL AS REQ. TO RECEIVE NEW ROOM SIGNAGE IN SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL .

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING WALL TO RECEIVE NEW TILE TO BE CLEAN, PATCHED AND PREPPED TO RECEIVE PAINT FINISH THROUGHOUT CAMPUS. G.C. SHALL REMOVE ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, GRAPHICS, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATED W/ CAMPUS PRIOR TO REMOVAL.
RE: MEPT FOR ADDITIONAL DEMOLITION SCOPE

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

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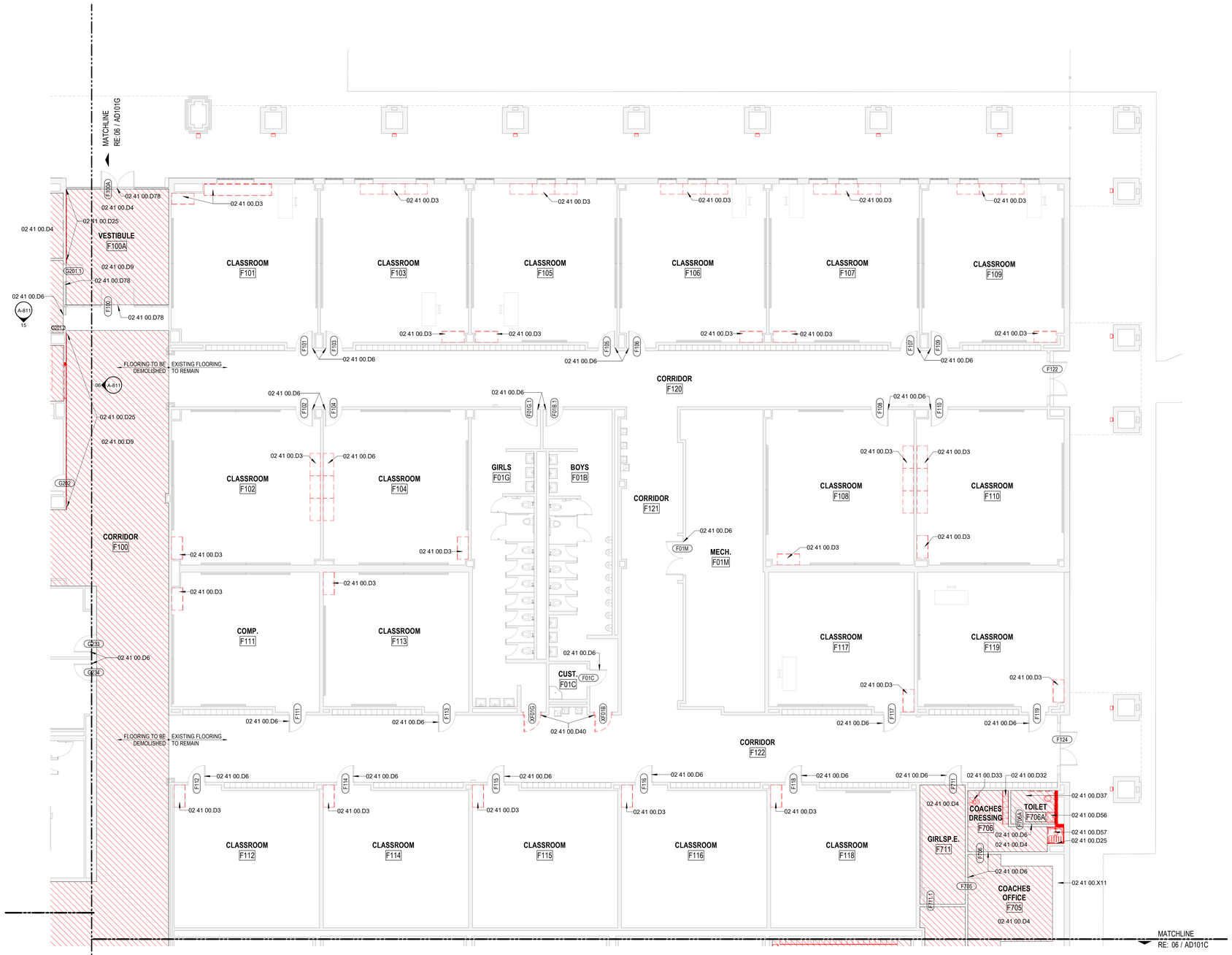

06 1ST LEVEL - DEMOLITION FLOOR PLAN - AREA F
1/8" = 1'-0"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXITSITING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

13 GENERAL DEMOLITION NOTES

- EXISTING PARTITION TO REMAIN
- DEMO FLOORING, CEILING & LIGHTING SYSTEMS
- DEMO FOUNDATION RE: STRUCTURE FOR EXTENTS
- DEMO CEILING & LIGHTING
- DEMO FLOORING AND BASE
- DEMO DOOR
- DOOR IN SCOPE
- DEMO WALL
- DEMO WINDOW
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- NOT IN SCOPE

07 DEMOLITION PLAN LEGEND

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D3	DEMOLISH EXISTING CASEWORK AND BASE, AT AREAS WITH FLOORING UNDERNEATH CASEWORK, FLOORING TO BE DEMOLISHED UDERNEATH CASEWORK ONLY. PREP FOR NEW CASEWORK AND BASE, TYP. NEW CASEWORK TO MATCH EXISTING CASEWORK FOOTPRINT/LOCATION. G.C TO FIELD VERIFY DIMENSIONS AND LOCATIONS PRIOR TO FABRICATION.
02 41 00.D4	DEMO EXISTING FLOORING AND BASE. PREP FLOOR TO RECIEVE NEW FLOORING. RE:FINISH PLANS FOR NEW FINISH.
02 41 00.D6	DEMO EXISTING DOOR HARDWARE AND PREP FOR NEW HARDWARE. COORDINATE W/ HARDWARE SPEC TO DETERMINE DEMO EXTENTS. RE:HARDWARE SPEC/DOOR SCHEDULE.
02 41 00.D9	DEMOLISH EXISTING TILE FLOORING AND PREP FOR NEW TILE FLOORING. RE: FINISH PLANS.
02 41 00.D25	DEMOLISH EXISTING WALL TILE AND PREP FOR NEW WALL FINISH. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D32	DEMO EXISTING LOCKERS AND BASE, TYP.
02 41 00.D33	DEMO EXISTING ADA BENCH
02 41 00.D37	DEMOLISH ALL EXISTING WALL TILE AND FLOOR TILE WITHIN ROOM AND PREP FOR NEW WALL FINISH. DEMO ALL TOILET/SINK ACCESSORIES WITHIN ROOM. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D40	DEMOLISH EXISTING DOOR AND PREP FOR NEW. EXISTING FRAME TO BE PROTECTED IN PLACE. PATCH, REPAIR AND PREP FRAME AS REQ'D FOR NEW HARDWARE AND PAINT. DEMO MAG HOLD OPENS AND PATCH WALL AS REQ'D.
02 41 00.D56	DEMOLISH EXISTING PLUMBING FIXTURE AND PREP FOR NEW, TYP. RE: PLUMBING FOR ADDITIONAL
02 41 00.D57	DEMOLISH ALL SHOWER FIXTURES/CONTROLS, BENCHES AND CURTAINS WITHIN SHOWER AREA. PREP/PATCH WALL AS REQ FOR NEW, TYP. RE: PLUMBING FOR ADDITIONAL
02 41 00.D78	DEMO EXISTING GLAZING. EXISTING FRAME TO BE REMAIN AND BE PROTECTED IN PLACE. PREP FRAME AS REQ'D TO RECEIVE NEW SECURITY GLAZING AS NOTED IN WINDOW ELEVATIONS.
02 41 00.X11	EXISTING CASEWORK TO REMAIN AND BE PROTECTED IN PLACE.

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Arnold Middle School

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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION PLAN - AREA F

AD101F

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220022_CFISD_Arnold MS.rvt

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ISSUE FOR PROPOSAL

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32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

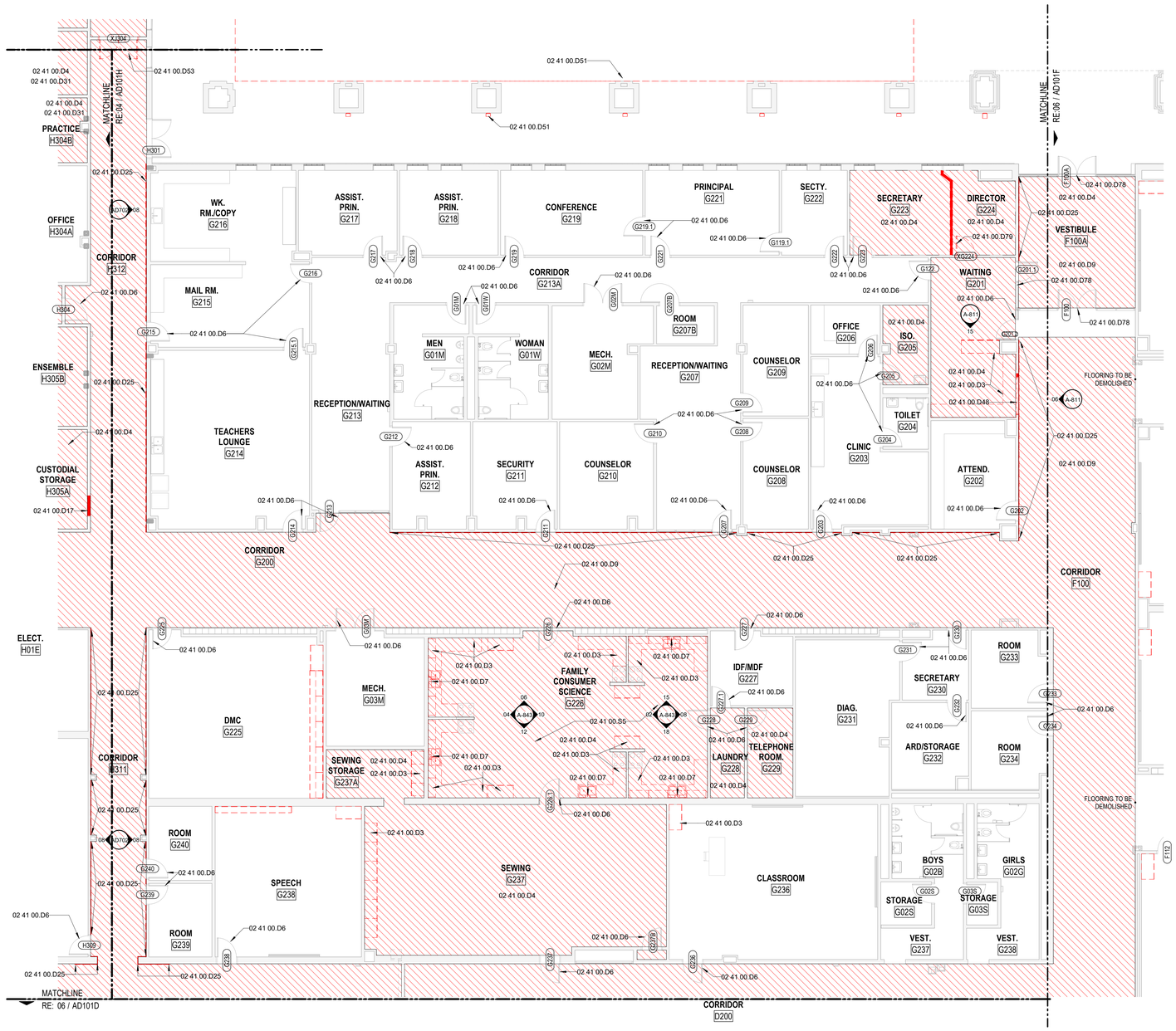
- EXISTING PARTITION TO REMAIN
- DEMO FOUNDATION RE: STRUCTURE FOR EXTENTS
- DEMO FLOORING AND BASE
- DEMO WALL
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- NOT IN SCOPE
- DEMO FLOORING, CEILING & LIGHTING SYSTEMS
- DEMO CEILING & LIGHTING
- DEMO DOOR
- DOOR IN SCOPE
- DEMO WINDOW

27 DEMOLITION PLAN LEGEND

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D3	DEMOLISH EXISTING CASEWORK AND BASE, AT AREAS WITH FLOORING UNDERNEATH CASEWORK, FLOORING TO BE DEMOLISHED UDERNEATH CASEWORK ONLY. PREP FOR NEW CASEWORK AND BASE, TYP. NEW CASEWORK TO MATCH EXISTING CASEWORK FOOTPRINT/LOCATION. G.C TO FIELD VERIFY DIMENSIONS AND LOCATIONS PRIOR TO FABRICATION.
02 41 00.D4	DEMO EXISTING FLOORING AND BASE. PREP FLOOR TO RECIEVE NEW FLOORING. RE:FINISH PLANS FOR NEW FINISH.
02 41 00.D6	DEMO EXISTING DOOR HARDWARE AND PREP FOR NEW HARDWARE. COORDINATE W/ HARDWARE SPEC TO DETERMINE DEMO EXTENTS. RE:HARDWARE SPEC/DOOR SCHEDULE.
02 41 00.D7	DEMOLISH EXISTING CASEWORK, BASE AND SINK. PREP FOR NEW CASEWORK, BASE AND SINK. CAP OFF UTILITIES AS REQ.
02 41 00.D9	DEMOLISH EXISTING TILE FLOORING AND PREP FOR NEW TILE FLOORING. RE: FINISH PLANS.
02 41 00.D17	DEMOLISH EXISTING MASONRY WALL AND PREP FOR NEW OPENING RE: SCHEDULE FOR OPENING SIZE. NEW CMU WALL TO BE TOOTH. RE: STRUCTURAL
02 41 00.D25	DEMOLISH EXISTING WALL TILE AND PREP FOR NEW WALL FINISH. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D31	DEMO EXISTING ACOUSTICAL WALL PANELS WITHIN ROOM. PATCH, PREP AND REPAINT ALL WALLS WITHIN ROOM.
02 41 00.D48	DEMO EXISTING WINDOW SYSTEM. PATCH AND REPAIR WALL AS REQUIRED FOR NEW DOOR/WINDOW SYSTEMS RE: SCHEDULE.
02 41 00.D51	DEMOLISH EXISTING EXTERIOR LIGHT FIXTURE AND PREPARE FOR NEW. PATCH AND REPAIR BRICK AS REQUIRED, TYP.
02 41 00.D53	DEMOLISH EXISTING DOOR AND PREP FOR NEW. EXISTING FRAME TO BE PROTECTED IN PLACE. PATCH AND REPAIR FRAME AS REQ'D FOR NEW HARDWARE. DEMO MAG HOLD OPENS AND PATCH WALL AS REQ'D.
02 41 00.D78	DEMO EXISTING GLAZING, EXISTING FRAME TO BE REMAIN AND BE PROTECTED IN PLACE. PREP FRAME AS REQ'D TO RECEIVE NEW SECURITY GLAZING AS NOTED IN WINDOW ELEVATIONS.
02 41 00.D79	EXISTING DOOR AND FRAME TO BE DEMOLISHED. PATCH AND STUD WALL TO MATCH EXISTING PARTITION AND FINISH. NEW WALL TO MATCH ADJACENT WALL FINISH.
02 41 00.S5	SALVAGE EXISTING KITCHEN APPLIANCES WITHIN ROOM.UNINSTALL, PRESERVE, STORE AND PROTECT FOR REINSTALLATION AT SAME LOCATION.

26 KEYNOTES



GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE, PRIOR TO ANY WORK TAKING PLACE. ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE CLEANED, PATCHED AND PREPPED TO RECEIVE NEW PAINT. PROTECT ALL EXISTING WIDOW FRAMES, DOOR PANELS AND FRAMES DURING AND AFTER CONSTRUCTION. GENERAL CONTRACTOR SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.

ALL EXISTING ROOM SIGNAGE AND WAY FINDING TO BE DEMOED. CLEAN, PREP AND PATCH WALL AS REQ. TO RECEIVE NEW ROOM SIGNAGE IN SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL .

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING WALL TO RECEIVE NEW TILE TO BE CLEAN, PATCHED AND PREPPED TO RECEIVE PAINT FINISH THROUGHOUT CAMPUS. G.C. SHALL REMOVE ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, GRAPHICS, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATED W/ CAMPUS PRIOR TO REMOVAL.
RE: MEPT FOR ADDITIONAL DEMOLITION SCOPE

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

ALL EXISTING MASONRY WALLS NOTED TO RECEIVE NEW WALL TILE TO BE STRIPED, CLEANED AND PREPPED TO RECEIVE NEW WALL TILE.

ALL EXISTING CORRIDOR STUD WALLS WITH TILE NOTED TO BE DEMOED SHALL RECEIVE NEW 5/8" TILE BACKER BOARD. G.C. TO REPLACE ANY DAMAGED STUDS AS REQ'D DURING DEMOLITION G.C. TO FIELD VERIFY.

ALL WALLS SHOWN TO RECEIVE NEW WALL TILE ARE TO BE STRIPPED OF EXISTING PAINT, CLEANED AND PREPPED TO RECEIVE NEW TILE FINISH.

06 1ST LEVEL - DEMOLITION FLOOR PLAN - AREA G

1/8" = 1'-0"

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POOL/AQUATICS CONSULTANT NAME
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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST FLOOR DEMOLITION PLAN - AREA G

AD101G

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1ST FLOOR DEMOLITION PLAN - AREA H

AD101H

FOR BLUEBEAM LABELING/OCR:

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXITISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS OR PORTIONS OF WALLS TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE, PRIOR TO ANY WORK TAKING PLACE. ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE CLEANED, PATCHED AND PREPPED TO RECEIVE NEW PAINT. PROTECT ALL EXISTING WIDOW FRAMES, DOOR PANELS AND FRAMES DURING AND AFTER CONSTRUCTION. GENERAL CONTRACTOR SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.

ALL EXISTING ROOM SIGNAGE AND WAY FINDING TO BE DEMOED. CLEAN, PREP AND PATCH WALL AS REQ. TO RECEIVE NEW ROOM SIGNAGE IN SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL .

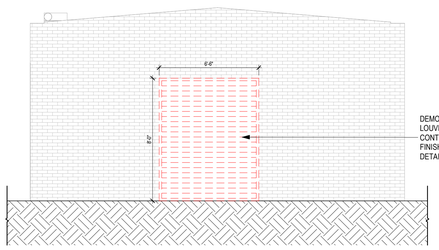
ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING WALL TO RECEIVE NEW TILE TO BE CLEAN, PATCHED AND PREPPED TO RECEIVE PAINT FINISH THROUGHOUT CAMPUS. G.C. SHALL REMOVE ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, GRAPHICS, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATED W/ CAMPUS PRIOR TO REMOVAL.
RE: MEPT FOR ADDITIONAL DEMOLITION SCOPE

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

ALL EXISTING MASONRY WALLS NOTED TO RECEIVE NEW WALL TILE TO BE STRIPED, CLEANED AND PREPPED TO RECEIVE NEW WALL TILE.

ALL EXISTING CORRIDOR STUD WALLS WITH TILE NOTED TO BE DEMOED SHALL RECEIVE NEW 5/8" TILE BACKER BOARD. G.C. TO REPLACE ANY DAMAGED STUDS AS REQ'D DURING DEMOLITION G.C. TO FIELD VERIFY.

ALL WALLS SHOWN TO RECEIVE NEW WALL TILE ARE TO BE STRIPPED OF EXISTING PAINT, CLEANED AND PREPPED TO RECEIVE NEW TILE FINISH.



18 MECHANICAL LOUVER DEMO DETAIL
1/4" = 1'-0"

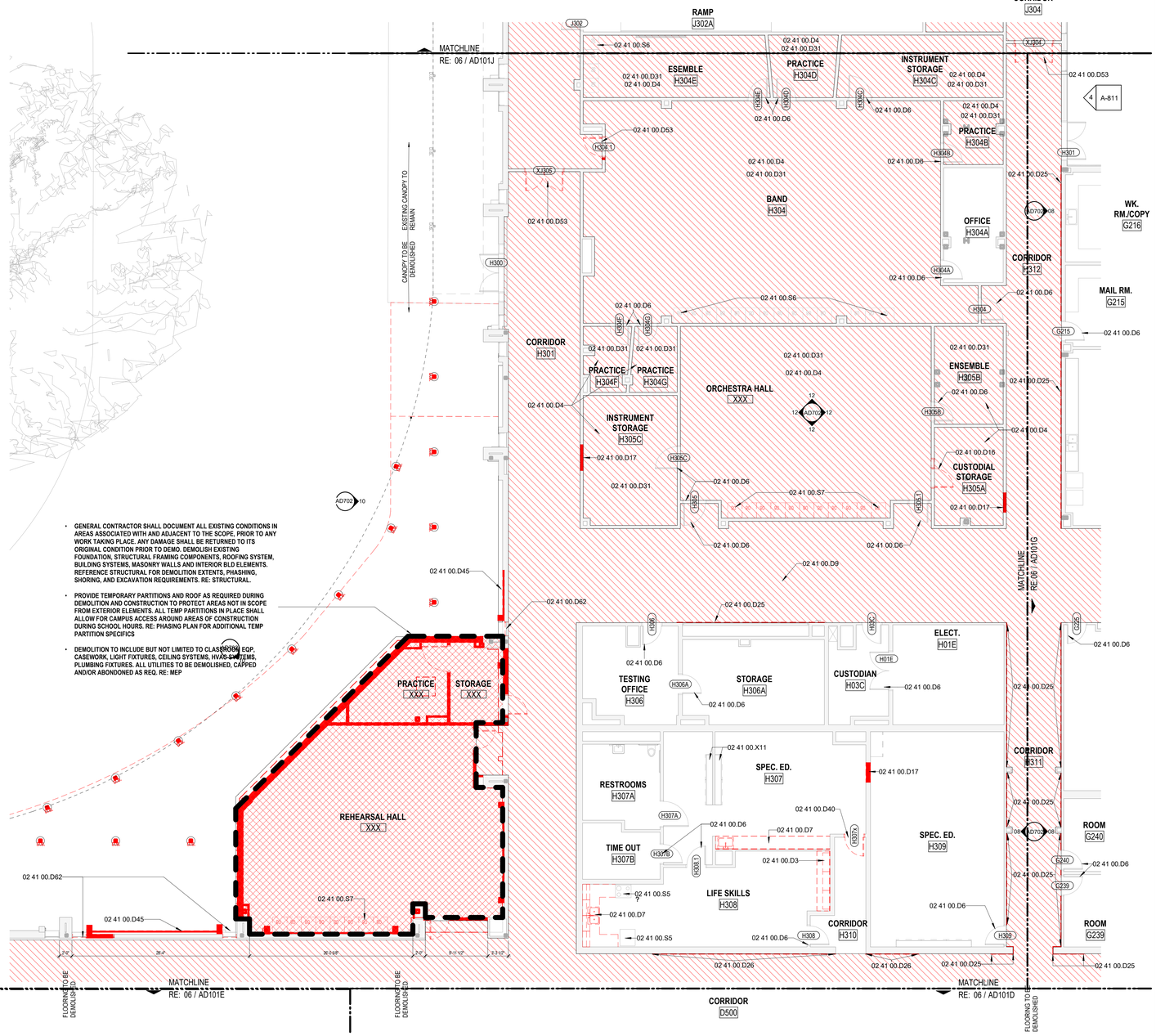
06 MECHANICAL BUILDING - ENLARGED DEMO PLAN
1/8" = 1'-0"

27 DEMOLITION PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- DEMO FOUNDATION RE: STRUCTURE FOR EXTENTS
- DEMO FLOORING AND BASE
- DEMO WALL
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- NOT IN SCOPE
- DEMO FLOORING, CEILING & LIGHTING SYSTEMS
- DEMO CEILING & LIGHTING
- DEMO DOOR
- DOOR IN SCOPE
- DEMO WINDOW

26 KEYNOTES

NUMBER	DESCRIPTION
02 41 00.D3	DEMOLISH EXISTING CASEWORK AND BASE, AT AREAS WITH FLOORING UNDERNEATH CASEWORK, FLOORING TO BE DEMOLISHED UDERNEATH CASEWORK ONLY. PREP FOR NEW CASEWORK AND BASE, TYP. NEW CASEWORK TO MATCH EXISTING CASEWORK FOOTPRINT/LOCATION. G.C TO FIELD VERIFY DIMENSIONS AND LOCATIONS PRIOR TO FABRICATION.
02 41 00.D4	DEMO EXISTING FLOORING AND BASE. PREP FLOOR TO RECIEVE NEW FLOORING. RE:FINISH PLANS FOR NEW FINISH.
02 41 00.D6	DEMO EXISTING DOOR HARDWARE AND PREP FOR NEW HARDWARE. COORDINATE W/ HARDWARE SPEC TO DETERMINE DEMO EXTENTS. RE:HARDWARE SPEC/DOOR SCHEDULE.
02 41 00.D7	DEMOLISH EXISTING CASEWORK, BASE AND SINK. PREP FOR NEW CASEWORK, BASE AND SINK. CAP OFF UTILITIES AS REQ.
02 41 00.D9	DEMOLISH EXISTING TILE FLOORING AND PREP FOR NEW TILE FLOORING. RE: FINISH PLANS.
02 41 00.D16	EXISTING DOOR AND FRAME TO BE DEMOLISHED. PATCH AND INFILL CMU WALL TO MATCH EXISTING PARTITION AND FINISH. NEW CMU TO BE TOOTHED AS REQ.D. RE: AREA PLANS
02 41 00.D17	DEMOLISH EXISTING MASONRY WALL AND PREP FOR NEW OPENING RE: SCHEDULE FOR OPENING SIZE. NEW CMU WALL TO BE TOOTH. RE: STRUCTURAL
02 41 00.D25	DEMOLISH EXISTING WALL TILE AND PREP FOR NEW WALL FINISH. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D26	DEMOLISH EXISTING WALL PANEL FINISH AND PREP FOR NEW WALL FINISH. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D31	DEMO EXISTING ACOUSTICAL WALL PANELS WITHIN ROOM. PATCH, PREP AND REPAINT ALL WALLS WITHIN ROOM.
02 41 00.D40	DEMOLISH EXISTING DOOR AND PREP FOR NEW. EXISTING FRAME TO BE PROTECTED IN PLACE. PATCH, REPAIR AND PREP FRAME AS REQ'D FOR NEW HARDWARE AND PAINT. DEMO MAG HOLD OPENS AND PATCH WALL AS REQ'D.
02 41 00.D45	DEMOLISH EXISTING BRICK VENEER AND BUILDING ENVELOPE COMPONENTS. PREP BACK UP WALL TO RECEIVE NEW 4" CMU WALL WITH MASONRY TIES. RE: DETAILS
02 41 00.D53	DEMOLISH EXISTING DOOR AND PREP FOR NEW. EXISTING FRAME TO BE PROTECTED IN PLACE. PATCH AND REPAIR FRAME AS REQ'D FOR NEW HARDWARE. DEMO MAG HOLD OPENS AND PATCH WALL AS REQ'D.
02 41 00.D62	DEMOLISH EXISTING WINDOW SYSTEM, PATCH AND INFILL TO MATCH ADJACENT WALL CONSTRUCTION.
02 41 00.D72	DEMOLISH EXISTING 78"x96" MAKE UP AIR LOUVER AND INFILL W/ CMU, WRB, CONTINIOUS INSULATION, AND BRICK FINISH. REFERENCE BUILDING ENVELOPE DETAILS FOR ADDITIONAL INFORMATION.
02 41 00.S5	SALVAGE EXISTING KITCHEN APPLIANCES WITHIN ROOM.UNINSTALL, PRESERVE, STORE AND PROTECT FOR REINSTALLATION AT SAME LOCATION.
02 41 00.S6	SALVAGE EXISTING INSTRUMENT STORAGE LOCKERS. UNINSTALL, PRESERVE, STORE AND PROTECT FOR REINSTALLATION WITH NEW BASE AT SAME LOCATION.
02 41 00.S7	SALVAGE EXISTING INSTRUMENT STORAGE LOCKERS. UNINSTALL, PRESERVE, STORE AND PROTECT FOR REINSTALLATION WITH NEW BASE AT NEW REHEARSAL HALL H305.
02 41 00.X11	EXISTING CASEWORK TO REMAIN AND BE PROTECTED IN PLACE.



04 1ST LEVEL - DEMOLITION FLOOR PLAN - AREA H
1/8" = 1'-0"

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LANDSCAPE
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STRUCTURAL
KUBR ENGINEERS T-713-840-7343
MEPT
LEAP T-713-560-3300
ACOUSTIC
ARC T-512-476-3664
FOOD SERVICE
SSA T-281-295-2223
POOL/AQUATICS CONSULTANT NAME T-000-000-0000

Arnold Middle School

11111 TELGE RD.
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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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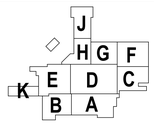

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION PLAN - AREA H

AD101H

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Plot Stamp: 2/14/2025 8:23:23 AM

0"
1"

1ST FLOOR DEMOLITION PLAN - AREA J

AD101J

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE, PRIOR TO ANY WORK TAKING PLACE. ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE CLEANED, PATCHED AND PREPPED TO RECEIVE NEW PAINT. PROTECT ALL EXISTING WIDOW FRAMES, DOOR PANELS AND FRAMES DURING AND AFTER CONSTRUCTION. GENERAL CONTRACTOR SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.

ALL EXISTING ROOM SIGNAGE AND WAY FINDING TO BE DEMOED. CLEAN, PREP AND PATCH WALL AS REQ. TO RECEIVE NEW ROOM SIGNAGE IN SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL .

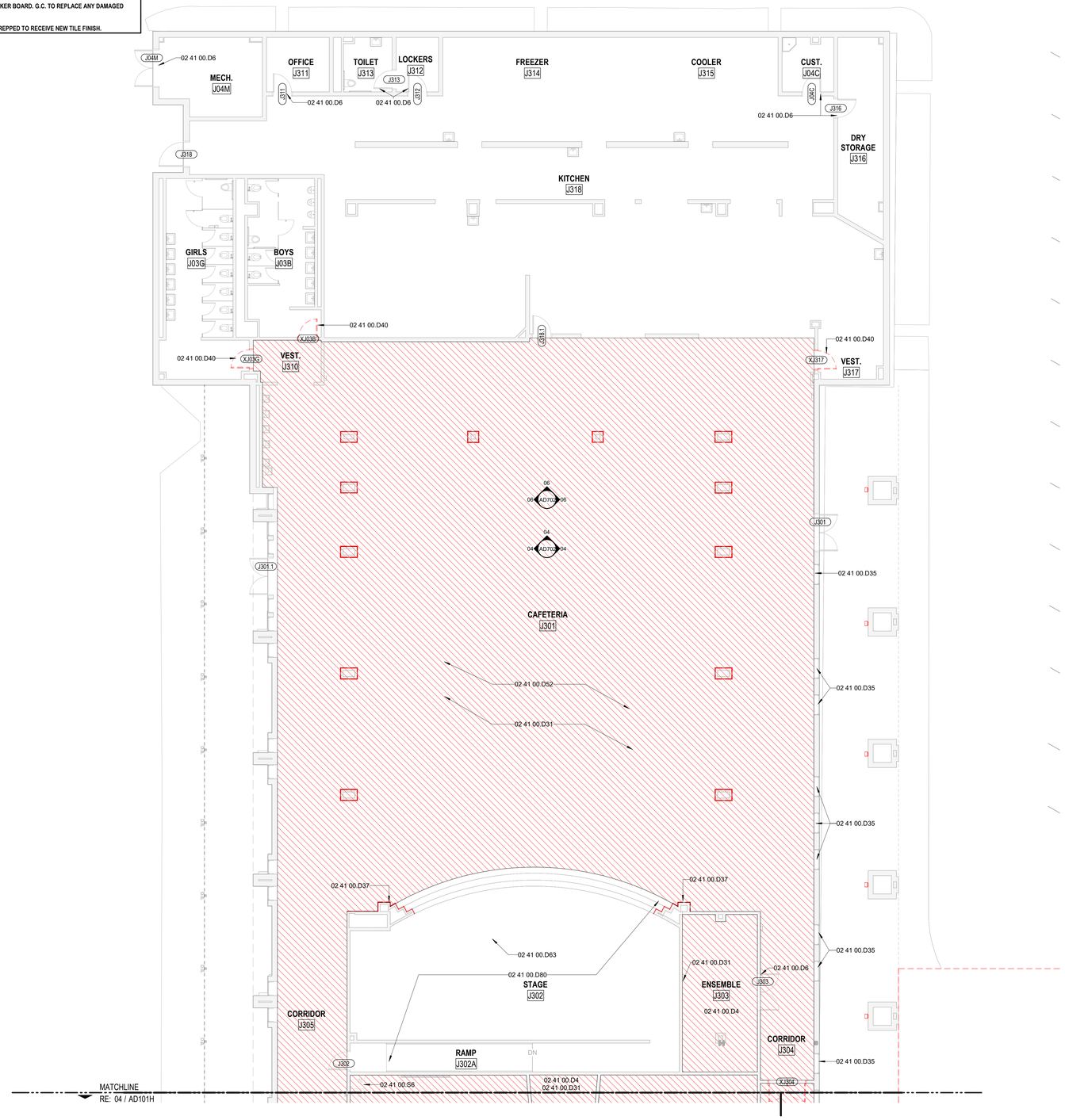
ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING WALL TO RECEIVE NEW TILE TO BE CLEAN, PATCHED AND PREPPED TO RECEIVE PAINT FINISH THROUGHOUT CAMPUS. G.C. SHALL REMOVE ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, GRAPHICS, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATED W/ CAMPUS PRIOR TO REMOVAL.
RE: MEPT FOR ADDITIONAL DEMOLITION SCOPE

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

ALL EXISTING MASONRY WALLS NOTED TO RECEIVE NEW WALL TILE TO BE STRIPED, CLEANED AND PREPPED TO RECEIVE NEW WALL TILE.

ALL EXISTING CORRIDOR STUD WALLS WITH TILE NOTED TO BE DEMOED SHALL RECEIVE NEW 5/8" TILE BACKER BOARD. G.C. TO REPLACE ANY DAMAGED STUDS AS REQ'D DURING DEMO.TO BE VERIFIED BY G.C. TO FIELD VERIFY.

ALL WALLS SHOWN TO RECEIVE NEW WALL TILE ARE TO BE STRIPPED OF EXISTING PAINT, CLEANED AND PREPPED TO RECEIVE NEW TILE FINISH.



06 1ST LEVEL - DEMOLITION FLOOR PLAN - AREA J
1/8" = 1'-0"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXITISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

13 GENERAL DEMOLITION NOTES

- EXISTING PARTITION TO REMAIN
- DEMO FLOORING, CEILING & LIGHTING SYSTEMS
- DEMO FOUNDATION RE: STRUCTURE FOR EXTENTS
- DEMO CEILING & LIGHTING
- DEMO FLOORING AND BASE
- DEMO DOOR
- DOOR IN SCOPE
- DEMO WALL
- DEMO WINDOW
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- NOT IN SCOPE

07 DEMOLITION PLAN LEGEND

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D4	DEMO EXISTING FLOORING AND BASE. PREP FLOOR TO RECIEVE NEW FLOORING. RE:FINISH PLANS FOR NEW FINISH.
02 41 00.D6	DEMO EXISTING DOOR HARDWARE AND PREP FOR NEW HARDWARE. COORDINATE W/ HARDWARE SPEC TO DETERMINE DEMO EXTENTS. RE:HARDWARE SPEC/DOOR SCHEDULE.
02 41 00.D31	DEMO EXISTING ACOUSTICAL WALL PANELS WITHIN ROOM. PATCH, PREP AND REPAINT ALL WALLS WITHIN ROOM.
02 41 00.D35	DEMO EXISTING TILE AT WINDOW/DOOR SILL AND JAMBS. PREP WALL TO RECEIVE NEW FINISH. RE: NEW PLANS
02 41 00.D37	DEMOLISH ALL EXISTING WALL TILE AND FLOOR TILE WITHIN ROOM AND PREP FOR NEW WALL FINISH. DEMO ALL TOILET/SINK ACCESSORIES WITHIN ROOM. RE: FINISH SCHEDULE/ELEVATIONS
02 41 00.D40	DEMOLISH EXISTING DOOR AND PREP FOR NEW. EXISTING FRAME TO BE PROTECTED IN PLACE. PATCH, REPAIR AND PREP FRAME AS REQ'D FOR NEW HARDWARE AND PAINT. DEMO MAG HOLD OPENS AND PATCH WALL AS REQ'D.
02 41 00.D52	DEMOLISH EXISTING WALL/FLOOR TILE WITHIN ROOM AT ALL COLUMN WRAPS AND ADJACENT AREAS.
02 41 00.D63	DEMOLISH EXISTING THEATRICAL RIGGING AND STAGE CURTAIN SYSTEMS IN ITS ENTIRETY AND PREP FOR NEW. RE: THEATRICAL
02 41 00.D80	DEMO EXISTING PAINT FINISH AT EXISTING WOOD STAGE AND PREP WOOD STAGE TO RECEIVE NEW PAINTED FINISH.
02 41 00.S6	SALVAGE EXISTING INSTRUMENT STORAGE LOCKERS. UNINSTALL, PRESERVE, STORE AND PROTECT FOR REINSTALLATION WITH NEW BASE AT SAME LOCATION.

01 KEYNOTES

PBK

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SHEN
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FOOD SERVICE
ISW
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POOL/AQUATICS
CONSULTANT NAME
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Arnold Middle School
11111 TEL GEF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

J H G F K E D C B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT BRANDON D. WISE 27140 STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION PLAN - AREA J

AD101J

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

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Author
Plot Stamp:
2/14/2025 8:23:39 AM

0"
1"

1ST FLOOR DEMOLITION CEILING PLAN - COMPOSITE
AD201
FOR BLUEBEAM LABELING:OCR:

ISSUE FOR PROPOSAL

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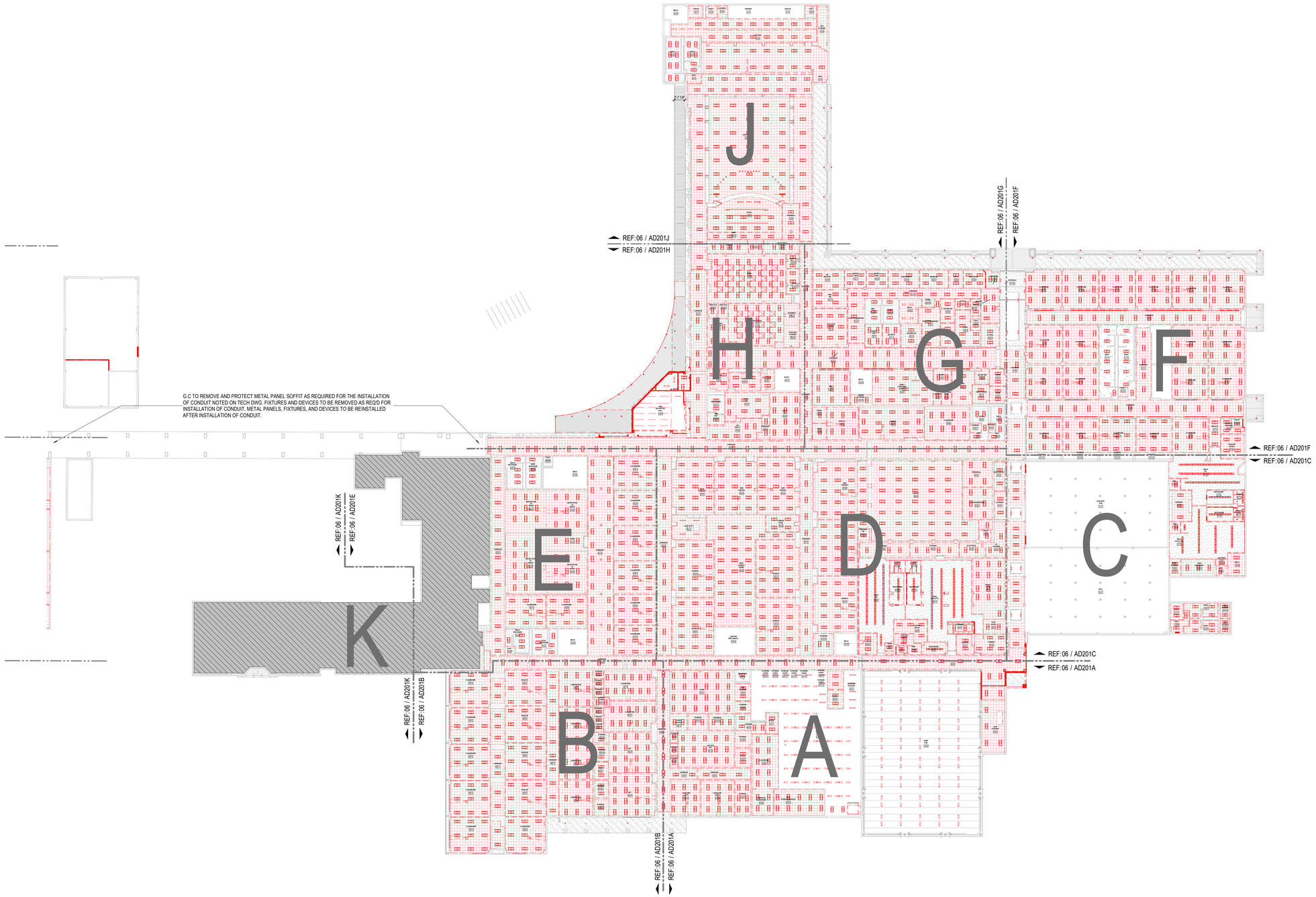

06 1ST LEVEL - DEMOLITION CEILING PLAN - COMPOSITE
1" = 30'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt
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DRAWN BY: Author
Plot Stamp: 2/14/2025 5:08:43 PM

PBK

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CONSULTANT NAME
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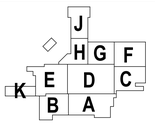

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT
STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION CEILING PLAN - COMPOSITE

AD201

ISSUE FOR PROPOSAL

1ST FLOOR DEMOLITION CEILING PLAN - AREA A

AD201A

FOR BLUEBEAM LABELING.OCR:

0" 1"

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33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
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35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

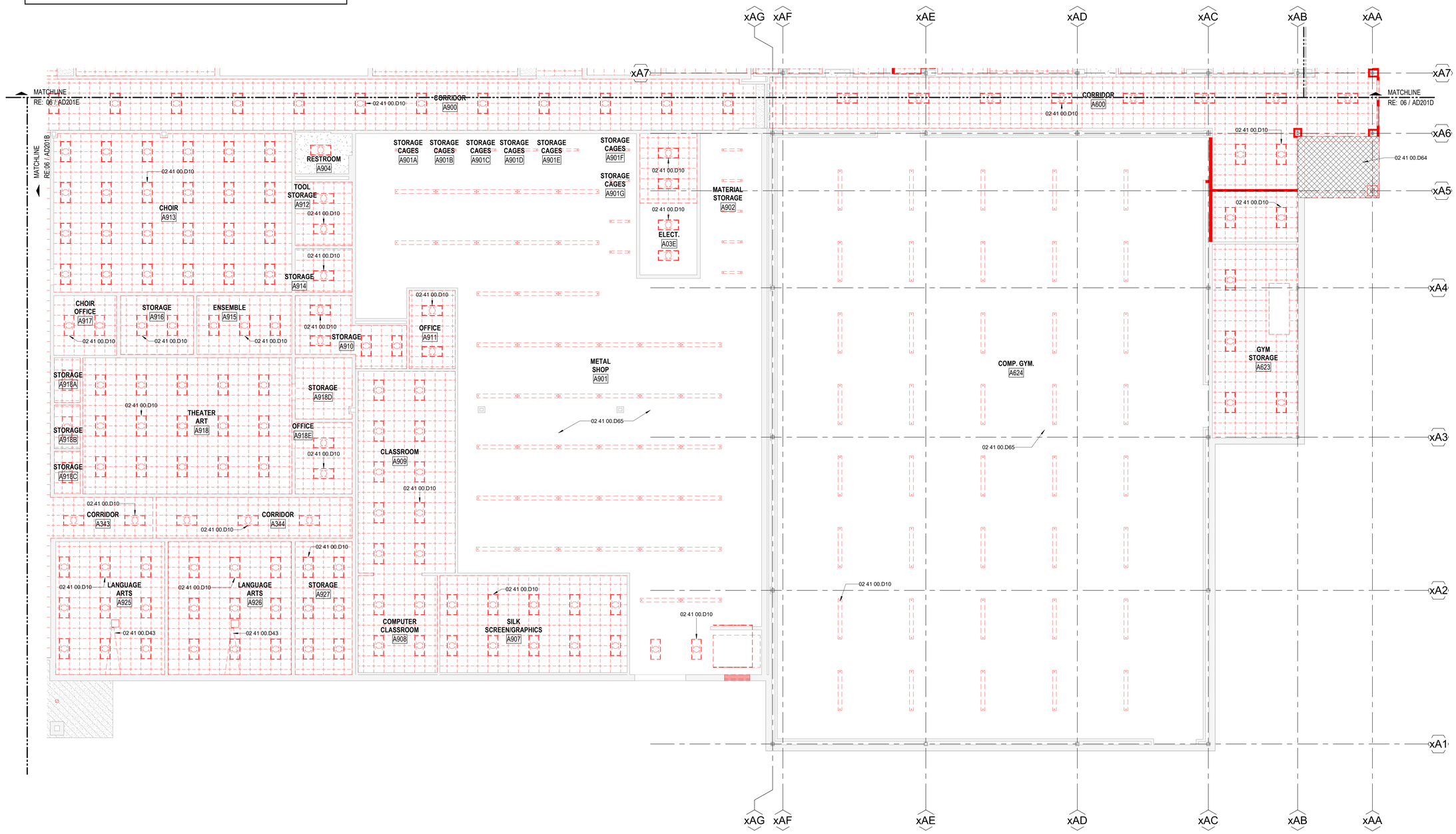
CLEAN AND PREP ALL EXISTING GYP CEILINGS AND FUR DOWNS TO RECEIVE NEW PAINT

27 CEILING DEMOLITION LEGEND

- DEMO EXISTING 2' x 2' CEILING & GRID. PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING GYP CEILING RE: KEYNOTES
- DEMO EXISTING GYP CEILING PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING STUCCO SOFFIT RE: KEYNOTES
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- DEMOLISH EXISTING 2'X4' LIGHT FIXTURE
- DEMO EXISTING RECESSED LIGHT FIXTURE
- DEMO EXISTING WALL MOUNTED FIXTURE
- NOT IN SCOPE

25 KEYNOTES

NUMBER	DESCRIPTION
02 41 00.D10	DEMOLISH EXISTING LIGHT FIXTURE, TYP.
02 41 00.D43	DEMO EXISTING PROJECTOR INFRASTRUCTURE IN ITS ENTIRETY, TO INCLUDE BUT NOT LIMITED TO ELECTRICAL/TECHONOLOGY INFRASTRUCTURE. DEMO TO NEAREST J BOX. G.C TO FIELD VERIFY AND COORDINATE W/ ELECTRICIAN.
02 41 00.D64	DEMOLISH EXISTING EXTERIOR PLASTER SOFFIT SYSTEM AND PREPARE FOR NEW CONSTUCTION.
02 41 00.D65	CLEAN AND PREP EXISTING STRUCTURE, MECHANICAL, AND ELECTRICAL EQP TO RECEIVE NEW PAINT. PROTECT ALL EXISTING FIXTURES IF THEY ARE NOTED TO REMAIN.



06 1ST LEVEL - DEMOLITION CEILING PLAN - AREA A

1/8" = 1'-0"

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ACOUSTIC
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POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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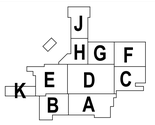
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION CEILING PLAN - AREA A

AD201A

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

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ISSUE FOR PROPOSAL

AD201B

FOR BLUEBEAM LABELING/OCR:

1ST FLOOR DEMOLITION CEILING PLAN - AREA B

0"
1"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVICES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

DEMO EXISTING 2' x 2' CEILING & GRID. PREP FOR NEW CEILING AT SAME HEIGHT U.N.O

EXISTING GYP CEILING RE: KEYNOTES

DEMO EXISTING GYP CEILING.PREP FOR NEW CEILING AT SAME HEIGHT U.N.O

EXISTING STUCCO SOFFIT RE: KEYNOTES

EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"

DEMOLISH EXISTING 2'X4' LIGHT FIXTURE

DEMO EXISTING RECESSED LIGHT FIXTURE

DEMO EXISTING WALL MOUNTED FIXTURE

NOT IN SCOPE

27 CEILING DEMOLITION LEGEND

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D10	DEMOLISH EXISTING LIGHT FIXTURE, TYP.
02 41 00.D43	DEMO EXISTING PROJECTOR INFRASTRUCTURE IN ITS ENTIRETY, TO INCLUDE BUT NOT LIMITED TO ELECTRICAL/TECHONOLOGY INFRASTRUCTURE. DEMO TO NEAREST J BOX. G.C TO FIELD VERIFY AND COORDINATE W/ ELECTRICIAN.
02 41 00.D71	DEMOLISH EXISTING EXTERIOR LIGHT FIXTURES IN PLASTER SOFFIT. REPAIR, PATCH AND PAINT EXISTING SOFFIT TO RECEIVE NEW EXTERIOR LIGHT FIXTURE, TYP.

25 KEYNOTES

CLEAN AND PREP ALL EXISTING GYP CEILINGS AND FUR DOWNS TO RECEIVE NEW PAINT

06 1ST LEVEL - DEMOLITION CEILING PLAN - AREA B

1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

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Arnold Middle School
11111 TEL GEF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

J H G F K E D C B A
KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT BRANDON D. BOX 27540 STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR DEMOLITION CEILING PLAN - AREA B

AD201B

ISSUE FOR PROPOSAL

0"
1"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
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11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
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13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
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15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
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22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
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36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

DEMO EXISTING 2' x 2' CEILING & GRID. PREP FOR NEW CEILING AT SAME HEIGHT U.N.O

EXISTING GYP CEILING RE: KEYNOTES

DEMO EXISTING GYP CEILING.PREP FOR NEW CEILING AT SAME HEIGHT U.N.O

EXISTING STUCCO SOFFIT RE: KEYNOTES

EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"

DEMOLISH EXISTING 2'X4' LIGHT FIXTURE

DEMO EXISTING RECESSED LIGHT FIXTURE

DEMO EXISTING WALL MOUNTED FIXTURE

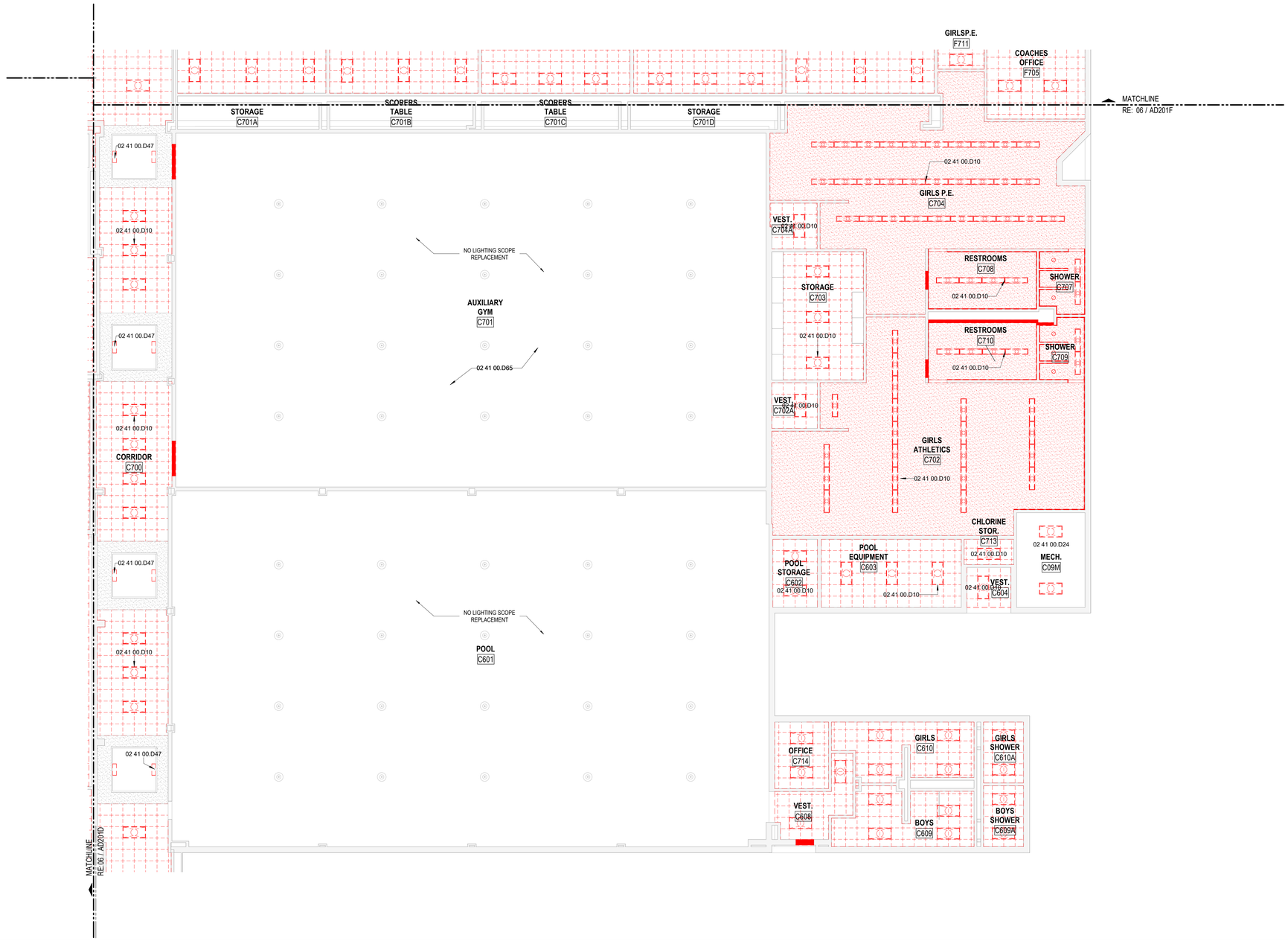
NOT IN SCOPE

27 CEILING DEMOLITION LEGEND

NUMBER	DESCRIPTION
02 41 00.D10	DEMOLISH EXISTING LIGHT FIXTURE, TYP.
02 41 00.D24	DEMOLISH ALL ELECTRICAL LIGHT FIXTURES WITHIN ROOM.
02 41 00.D47	DEMOLISH EXISTING WALL MOUNTED FIXTURE, TYP.PATCH, PREP AND REFINISH GYP TO RECEIVE NEW LIGHT FIXTURE, TYP.
02 41 00.D65	CLEAN AND PREP EXISTING STRUCTURE, MECHANICAL, AND ELECTRICAL EQP TO RECEIVE NEW PAINT. PROTECT ALL EXISTING FIXTURES IF THEY ARE NOTED TO REMAIN.

25 KEYNOTES

CLEAN AND PREP ALL EXISTING GYP CEILINGS AND FUR DOWNS TO RECEIVE NEW PAINT



06 1ST LEVEL - DEMOLITION CEILING PLAN - AREA C

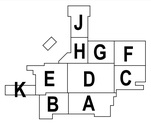
1/8" = 1'-0"

PBK
ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
BROOKS & SPARKS
T 281-578-5998
LANDSCAPE
EDDELAND GROUP
T 713-862-1666
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEPT
LEAP
T 713-540-3300
ACOUSTIC
ACOUSTIC
T 512-476-3654
FOOD SERVICE
FSD
T 281-256-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION CEILING PLAN - AREA C

AD201C

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt
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Author
Plot Stamp:
2/14/2025 8:24:37 AM

ISSUE FOR PROPOSAL

1ST FLOOR DEMOLITION CEILING PLAN - AREA D

AD201D

FOR BLUEBEAM LABELING/OCR:

0" 1"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR ITEMS FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOP AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

27 CEILING DEMOLITION LEGEND

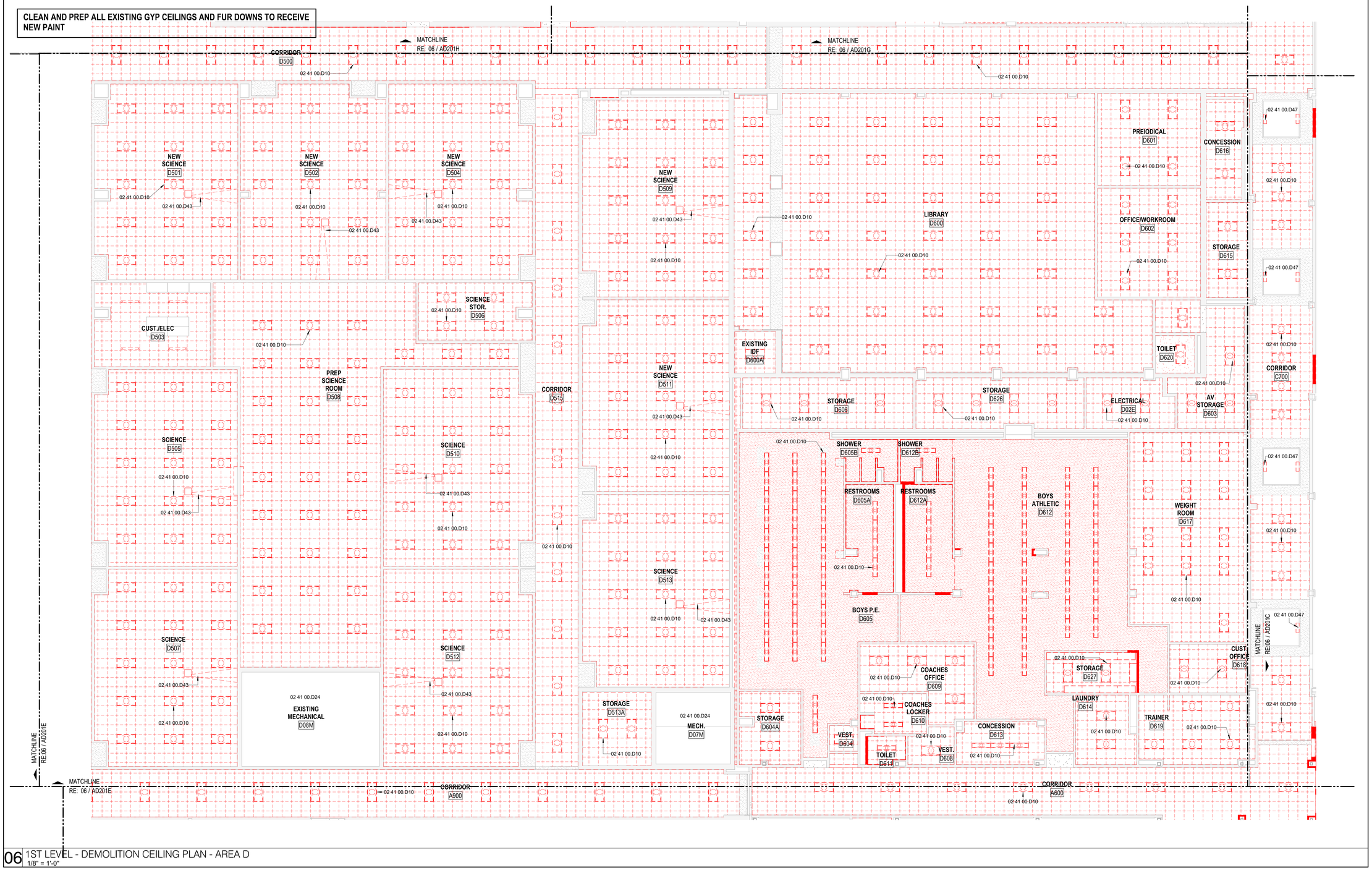
- DEMO EXISTING 2' x 2' CEILING & GRID. PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING GYP CEILING RE: KEYNOTES
- DEMO EXISTING GYP CEILING.PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING STUCCO SOFFIT RE: KEYNOTES
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- DEMOLISH EXISTING 2'X4' LIGHT FIXTURE
- DEMO EXISTING RECESSED LIGHT FIXTURE
- DEMO EXISTING WALL MOUNTED FIXTURE
- NOT IN SCOPE

25 KEYNOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D10	DEMOLISH EXISTING LIGHT FIXTURE, TYP.
02 41 00.D24	DEMOLISH ALL ELECTRICAL LIGHT FIXTURES WITHIN ROOM.
02 41 00.D43	DEMO EXISTING PROJECTOR INFRASTRUCTURE IN ITS ENTIRETY, TO INCLUDE BUT NOT LIMITED TO ELECTRICAL/TECHONOLOGY INFRASTRUCTURE. DEMO TO NEAREST J BOX. G.C TO FIELD VERIFY AND COORDINATE W/ ELECTRICIAN.
02 41 00.D47	DEMOLISH EXISTING WALL MOUNTED FIXTURE, TYP.PATCH, PREP AND REFINISH GYP TO RECEIVE NEW LIGHT FIXTURE, TYP.

CLEAN AND PREP ALL EXISTING GYP CEILINGS AND FUR DOWNS TO RECEIVE NEW PAINT



06 1ST LEVEL - DEMOLITION CEILING PLAN - AREA D

1/8" = 1'-0"

PBK
ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
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713-965-0608 P
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LEAP
T 713-540-3300
ACOUSTIC
SHEN
T 512-476-3664
FOOD SERVICE
RSE
T 281-356-2222
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
J H G F K E D C B A
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT JOHN D. WEST 27149 STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION CEILING PLAN - AREA D

AD201D

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Plot Stamp: 2/14/2025 5:08:49 PM

ISSUE FOR PROPOSAL

1ST FLOOR DEMOLITION CEILING PLAN - AREA E

AD201E

FOR BLUEBEAM LABELING.OCR:

0"
1"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
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11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
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14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
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16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
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36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

27 CEILING DEMOLITION LEGEND

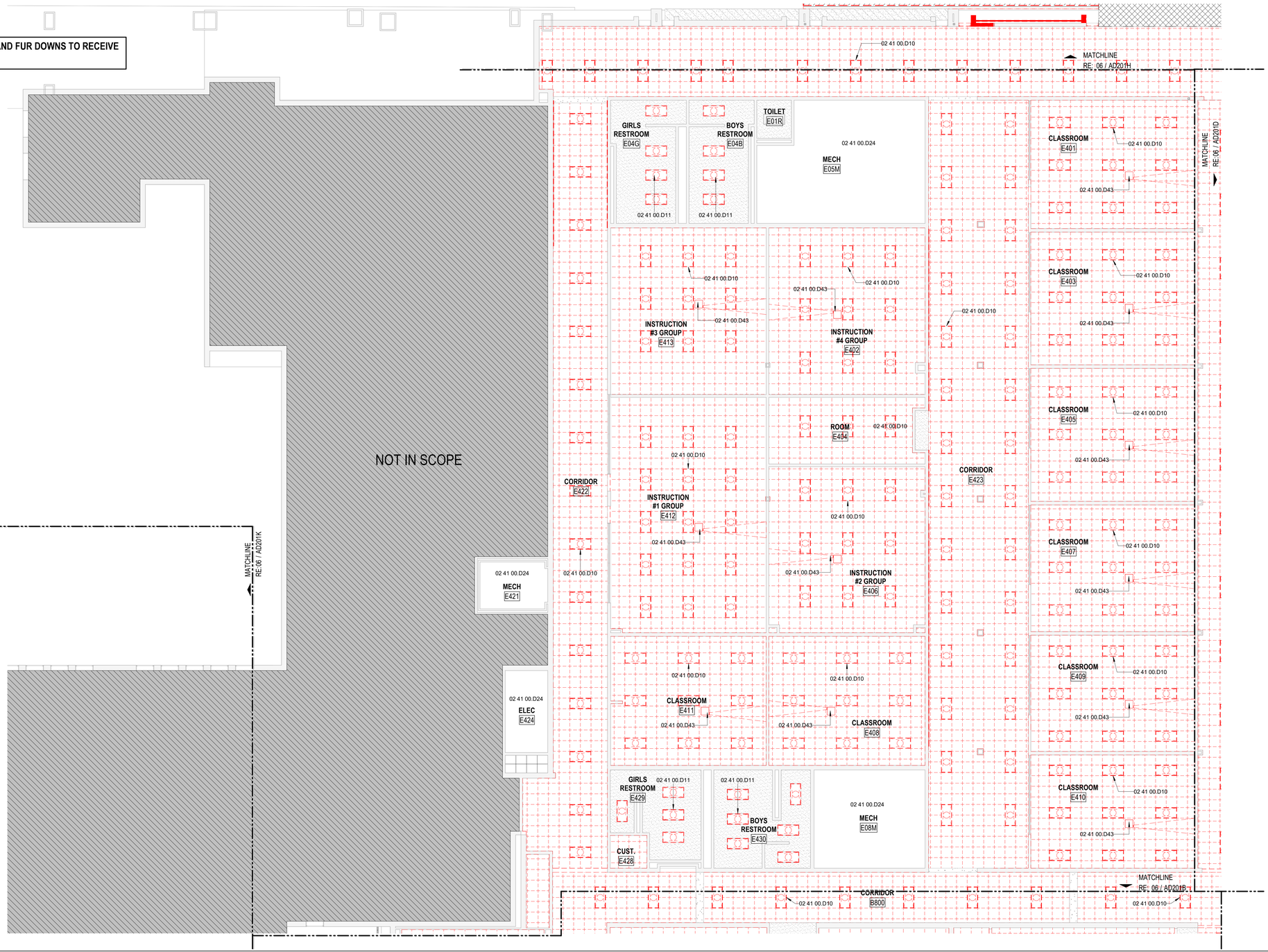
- DEMO EXISTING 2' x 2' CEILING & GRID. PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING GYP CEILING RE: KEYNOTES
- DEMO EXISTING GYP CEILING.PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING STUCCO SOFFIT RE: KEYNOTES
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- DEMOLISH EXISTING 2'X4' LIGHT FIXTURE
- DEMO EXISTING RECESSED LIGHT FIXTURE
- DEMO EXISTING WALL MOUNTED FIXTURE
- NOT IN SCOPE

25 KEYNOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D10	DEMOLISH EXISTING LIGHT FIXTURE. TYP.
02 41 00.D11	DEMOLISH EXISTING LIGHT FIXTURES. PATCH. PREP AND REFINISH GYP CEILING TO RECIEVE NEW LIGHT FIXTURE AS REQ. TYP. GYP FINISH TO MATCH EXISTING FINISH AND TEXTURE.
02 41 00.D24	DEMOLISH ALL ELECTRICAL LIGHT FIXTURES WITHIN ROOM.
02 41 00.D43	DEMO EXISTING PROJECTOR INFRASTRUCTURE IN ITS ENTIRETY, TO INCLUDE BUT NOT LIMITED TO ELECTRICAL/TECHONOLOGY INFRASTRUCTURE. DEMO TO NEAREST J BOX. G.C TO FIELD VERIFY AND COORDINATE W/ ELECTRICIAN.

CLEAN AND PREP ALL EXISTING GYP CEILINGS AND FUR DOWNS TO RECEIVE NEW PAINT



06 1ST LEVEL - DEMOLITION CEILING PLAN - AREA E
1/8" = 1'-0"

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POOL/AQUATICS
CONSULTANT NAME
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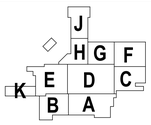
Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR DEMOLITION CEILING PLAN - AREA E

AD201E

0"
1"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

27 CEILING DEMOLITION LEGEND

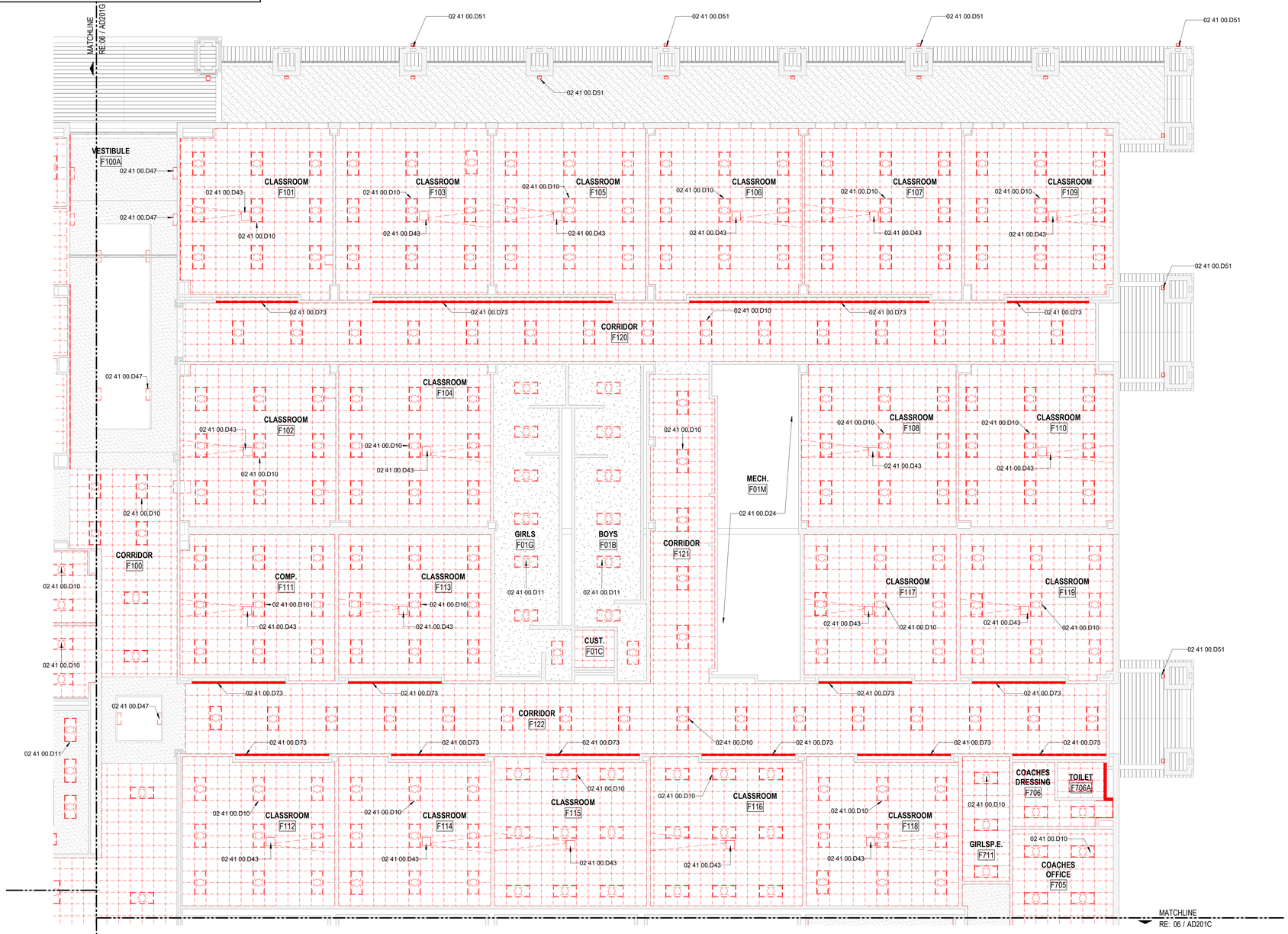
- DEMO EXISTING 2' x 2' CEILING & GRID. PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING GYP CEILING RE: KEYNOTES
- DEMO EXISTING GYP CEILING,PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING STUCCO SOFFIT RE: KEYNOTES
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- DEMOLISH EXISTING 2'X4' LIGHT FIXTURE
- DEMO EXISTING RECESSED LIGHT FIXTURE
- DEMO EXISTING WALL MOUNTED FIXTURE
- NOT IN SCOPE

25 KEYNOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D10	DEMOLISH EXISTING LIGHT FIXTURE, TYP.
02 41 00.D11	DEMOLISH EXISTING LIGHT FIXTURES. PATCH, PREP AND REFINISH GYP CEILING TO RECIEVE NEW LIGHT FIXTURE,AS REQ. TYP. GYP FINISH TO MATCH EXISTING FINISH AND TEXTURE.
02 41 00.D24	DEMOLISH ALL ELECTRICAL LIGHT FIXTURES WITHIN ROOM.
02 41 00.D43	DEMO EXISTING PROJECTOR INFRASTRUCTURE IN ITS ENTIRETY, TO INCLUDE BUT NOT LIMITED TO ELECTRICAL/TECHONOLGY INFRASTRUCTURE. DEMO TO NEAREST J BOX. G.C TO FIELD VERIFY AND COORDINATE W/ ELECTRICIAN.
02 41 00.D47	DEMOLISH EXISTING WALL MOUNTED FIXTURE, TYP. PATCH, PREP AND REFINISH GYP TO RECEIVE NEW LIGHT FIXTURE, TYP.
02 41 00.D51	DEMOLISH EXISTING EXTERIOR LIGHT FIXTURE AND PREPARE FOR NEW. PATCH AND REPAIR BRICK AS REQUIRED, TYP.
02 41 00.D73	DEMOLISH EXISTING FUR DOWN ABOVE LOCKERS AND PREP FOR NEW METAL STUD FUR DOWN WITH TILE. LOCKERS TO BE PROTECTED IN PLACE FOR DURATION OF DEMOLITION/INSTALLATION.

CLEAN AND PREP ALL EXISTING GYP CEILINGS AND FUR DOWNS TO RECEIVE NEW PAINT



06 1ST LEVEL - DEMOLITION CEILING PLAN - AREA F

1/8" = 1'-0"

ISSUE FOR PROPOSAL

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POOL/AQUATICS CONSULTANT NAME
T: 000-000-0000

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11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
J H G F
K E D C
B A
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT JEFFREY D. KUBENKA STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR DEMOLITION CEILING PLAN - AREA F

AD201F

ISSUE FOR PROPOSAL

1ST FLOOR DEMOLITION CEILING PLAN - AREA G
AD201G
FOR BLUEBEAM LABELING/OCR:

0"
1"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
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20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
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25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
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32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
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37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

30 GENERAL DEMOLITION NOTES

DEMO EXISTING 2' x 2' CEILING & GRID. PREP FOR NEW CEILING AT SAME HEIGHT U.N.O

EXISTING GYP CEILING RE: KEYNOTES

DEMO EXISTING GYP CEILING.PREP FOR NEW CEILING AT SAME HEIGHT U.N.O

EXISTING STUCCO SOFFIT RE: KEYNOTES

EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"

DEMOLISH EXISTING 2'X4' LIGHT FIXTURE

DEMO EXISTING RECESSED LIGHT FIXTURE

DEMO EXISTING WALL MOUNTED FIXTURE

NOT IN SCOPE

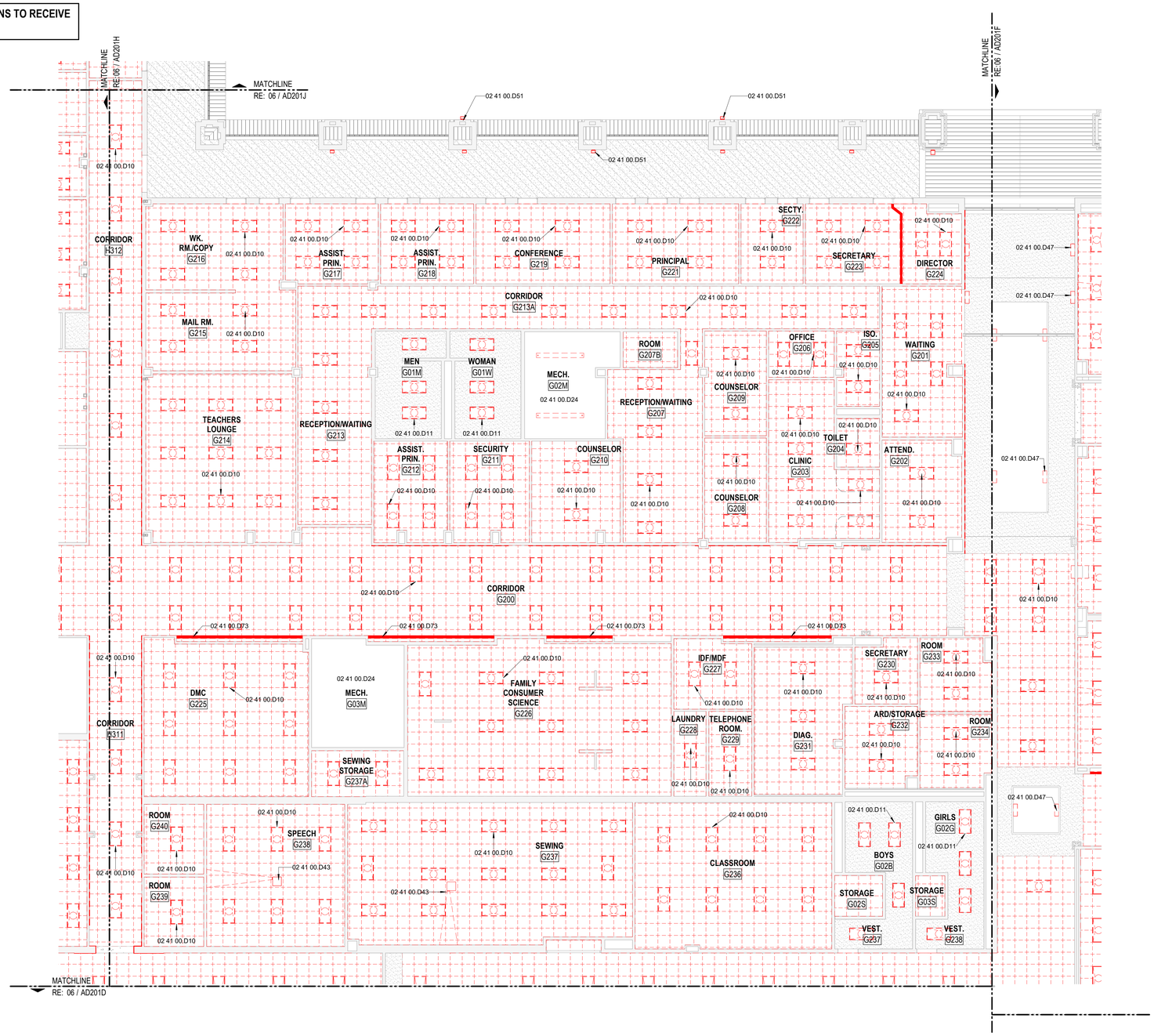
27 CEILING DEMOLITION LEGEND

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D10	DEMOLISH EXISTING LIGHT FIXTURE, TYP.
02 41 00.D11	DEMOLISH EXISTING LIGHT FIXTURES. PATCH, PREP AND REFINISH GYP CEILING TO RECIEVE NEW LIGHT FIXTURE AS REQ. TYP. GYP FINISH TO MATCH EXISTING FINISH AND TEXTURE.
02 41 00.D24	DEMOLISH ALL ELECTRICAL LIGHT FIXTURES WITHIN ROOM.
02 41 00.D43	DEMO EXISTING PROJECTOR INFRASTRUCTURE IN ITS ENTIRETY, TO INCLUDE BUT NOT LIMITED TO ELECTRICAL/TECHONOLOGY INFRASTRUCTURE. DEMO TO NEAREST J BOX. G.C TO FIELD VERIFY AND COORDINATE W/ ELECTRICIAN.
02 41 00.D47	DEMOLISH EXISTING WALL MOUNTED FIXTURE, TYP.PATCH, PREP AND REFINISH GYP TO RECEIVE NEW LIGHT FIXTURE, TYP.
02 41 00.D51	DEMOLISH EXISTING EXTERIOR LIGHT FIXTURE AND PREPARE FOR NEW. PATCH AND REPAIR BRICK AS REQUIRED, TYP.
02 41 00.D73	DEMOLISH EXISTING FUR DOWN ABOVE LOCKERS AND PREP FOR NEW METAL STUD FUR DOWN WITH TILE. LOCKERS TO BE PROTECTED IN PLACE FOR DURATION OF DEMOLITION/INSTALLATION.

26 KEYNOTES

CLEAN AND PREP ALL EXISTING GYP CEILINGS AND FUR DOWNS TO RECEIVE NEW PAINT



06 1ST LEVEL - DEMOLITION CEILING PLAN - AREA G
1/8" = 1'-0"

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TX Firm: BR 1608
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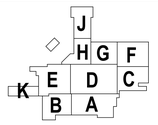
BROOKS & SPARKS
T 281-578-9998
LANDSCAPE
EDDELAND GROUP
T 713-862-1999
STRUCTURAL
KIDDE CONSULTANTS
T 713-840-7343
MEPT
LEAP
T 713-540-3300
ACOUSTIC
ACENTECH
T 512-476-3664
FOOD SERVICE
JSD
T 281-256-2222
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR DEMOLITION CEILING PLAN - AREA G

AD201G

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt
CHECKED BY: Checker
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Plot Stamp: 2/14/2025 8:25:33 AM

ISSUE FOR PROPOSAL

1ST FLOOR DEMOLITION CEILING PLAN - AREA H

AD201H

FOR BLUEBEAM LABELING.OCR:

0"

1"

30 GENERAL DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

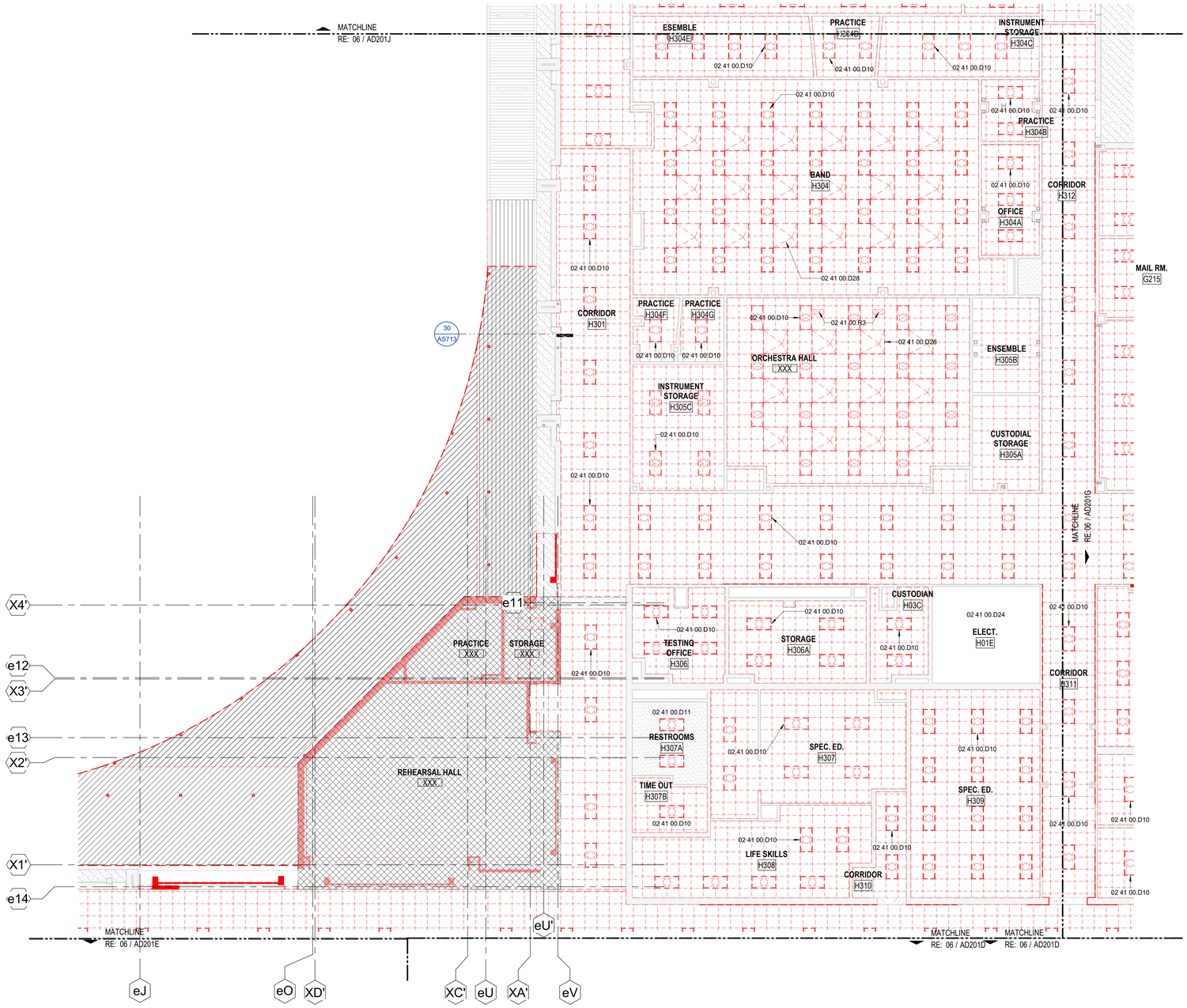
27 CEILING DEMOLITION LEGEND

- DEMO EXISTING 2' x 2' CEILING & GRID. PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING GYP CEILING RE: KEYNOTES
- DEMO EXISTING GYP CEILING,PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING STUCCO SOFFIT RE: KEYNOTES
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- DEMOLISH EXISTING 2'X4' LIGHT FIXTURE
- DEMO EXISTING RECESSED LIGHT FIXTURE
- DEMO EXISTING WALL MOUNTED FIXTURE
- NOT IN SCOPE

26 KEYNOTES

NUMBER	DESCRIPTION
02 41 00.D10	DEMOLISH EXISTING LIGHT FIXTURE, TYP.
02 41 00.D11	DEMOLISH EXISTING LIGHT FIXTURES. PATCH, PREP AND REFINISH GYP CEILING TO RECIEVE NEW LIGHT FIXTURE,AS REQ. TYP. GYP FINISH TO MATCH EXISTING FINISH AND TEXTURE.
02 41 00.D24	DEMOLISH ALL ELECTRICAL LIGHT FIXTURES WITHIN ROOM.
02 41 00.D28	DEMO EXISTING CEILING SOUND DIFFUSERS, TYP.
02 41 00.R3	REINSTALL ALL EXISTING APPLIANCES.

CLEAN AND PREP ALL EXISTING GYP CEILINGS AND FUR DOWNS TO RECEIVE NEW PAINT



06 1ST LEVEL - DEMOLITION CEILING PLAN - AREA H

1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

CHECKED BY: Checker
DRAWN BY: Author
Plot Stamp: 2/14/2025 8:25:46 AM

PBK

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POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
J H G F K E D C B A
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT BRANDON D. PIKE STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION CEILING PLAN - AREA H

AD201H

0"
1"

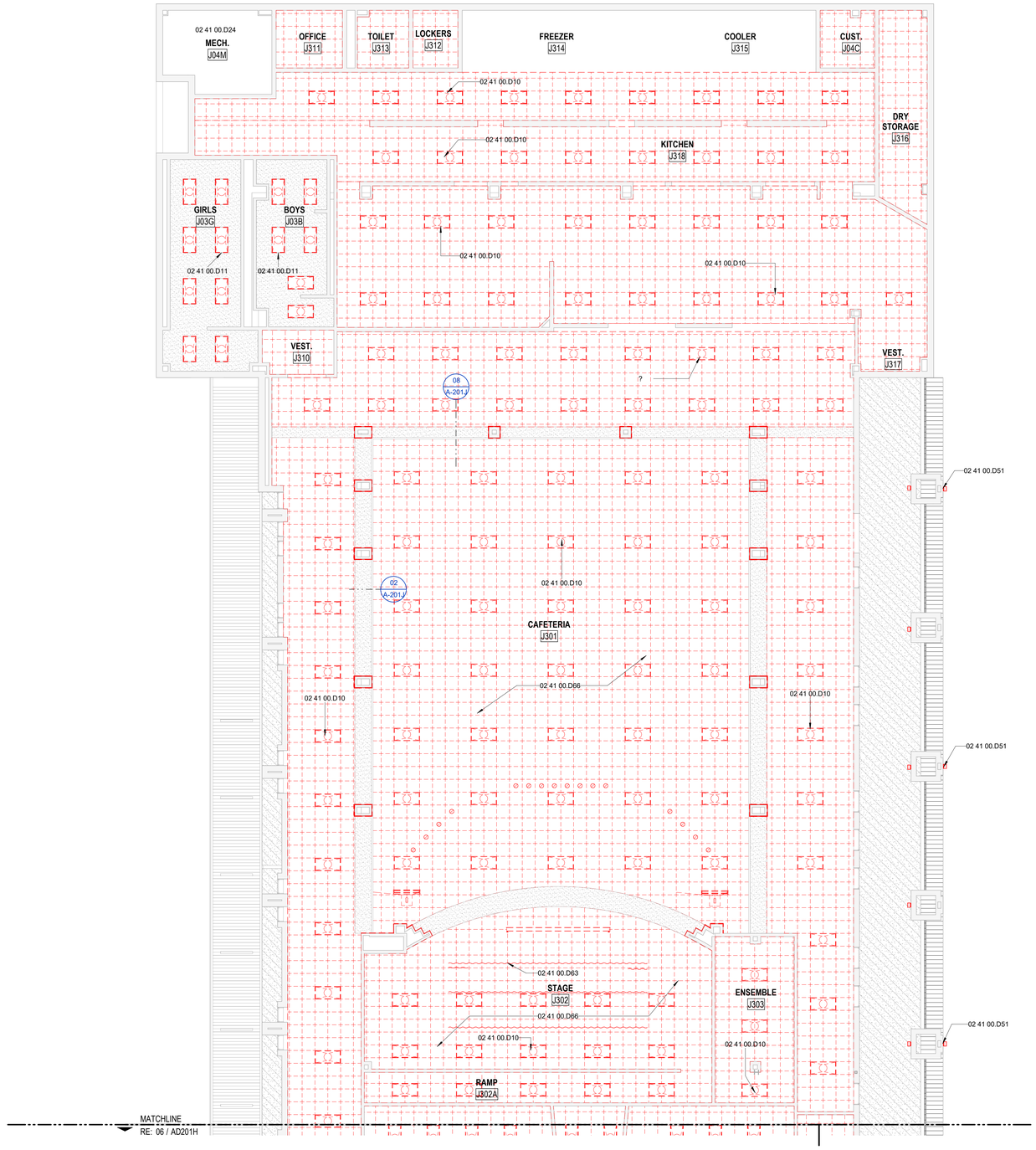
1ST FLOOR DEMOLITION CEILING PLAN - AREA J

AD201J

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

CLEAN AND PREP ALL EXISTING GYP CEILINGS AND FUR DOWNS TO RECEIVE NEW PAINT



06 1ST LEVEL - DEMOLITION CEILING PLAN - AREA J
1/8" = 1'-0"

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
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16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
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19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
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23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXITSTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

13 GENERAL DEMOLITION NOTES

- DEMO EXISTING 2' x 2' CEILING & GRID. PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING GYP CEILING RE: KEYNOTES
- DEMO EXISTING GYP CEILING.PREP FOR NEW CEILING AT SAME HEIGHT U.N.O
- EXISTING STUCCO SOFFIT RE: KEYNOTES
- EXISTING BLD FOOTPRINT TO BE DEMOED AND PREPARED FOR NEW CONSTRUCTION. RE: AREA PLANS AND STRUCTURAL DEMOLITION PLANS FOR FURTHER DESCRIPTION"
- DEMOLISH EXISTING 2'X4' LIGHT FIXTURE
- DEMO EXISTING RECESSED LIGHT FIXTURE
- DEMO EXISTING WALL MOUNTED FIXTURE
- NOT IN SCOPE

07 CEILING DEMOLITION LEGEND

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.D10	DEMOLISH EXISTING LIGHT FIXTURE, TYP.
02 41 00.D11	DEMOLISH EXISTING LIGHT FIXTURES. PATCH, PREP AND REFINISH GYP CEILING TO RECIEVE NEW LIGHT FIXTURE,AS REQ. TYP. GYP FINISH TO MATCH EXISTING FINISH AND TEXTURE.
02 41 00.D24	DEMOLISH ALL ELECTRICAL LIGHT FIXTURES WITHIN ROOM.
02 41 00.D51	DEMOLISH EXISTING EXTERIOR LIGHT FIXTURE AND PREPARE FOR NEW. PATCH AND REPAIR BRICK AS REQUIRED, TYP.
02 41 00.D63	DEMOLISH EXISTING THEATRICAL RIGGING AND STAGE CURTAIN SYSTEMS IN ITS ENTIRETY AND PREP FOR NEW. RE: THEATRICAL
02 41 00.D66	CLEAN AND PREP EXISTING STRUCTURE, MECHANICAL, AND ELECTRICAL EQP ABOVE CEILING TO RECEIVE NEW PAINT. NEW CEILING IS OPEN TO STRUCTURE.

01 KEYNOTES

PBK

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CONSULTANT NAME
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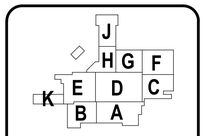
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT
BRANDON D. WOOD
STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR DEMOLITION CEILING PLAN - AREA J

AD201J

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt
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Plot Stamp: 2/14/2025 8:25:59 AM

ROOF PLAN DEMOLITION - COMPOSITE

AD302

FOR BLUEBEAM LABELING.OCR:

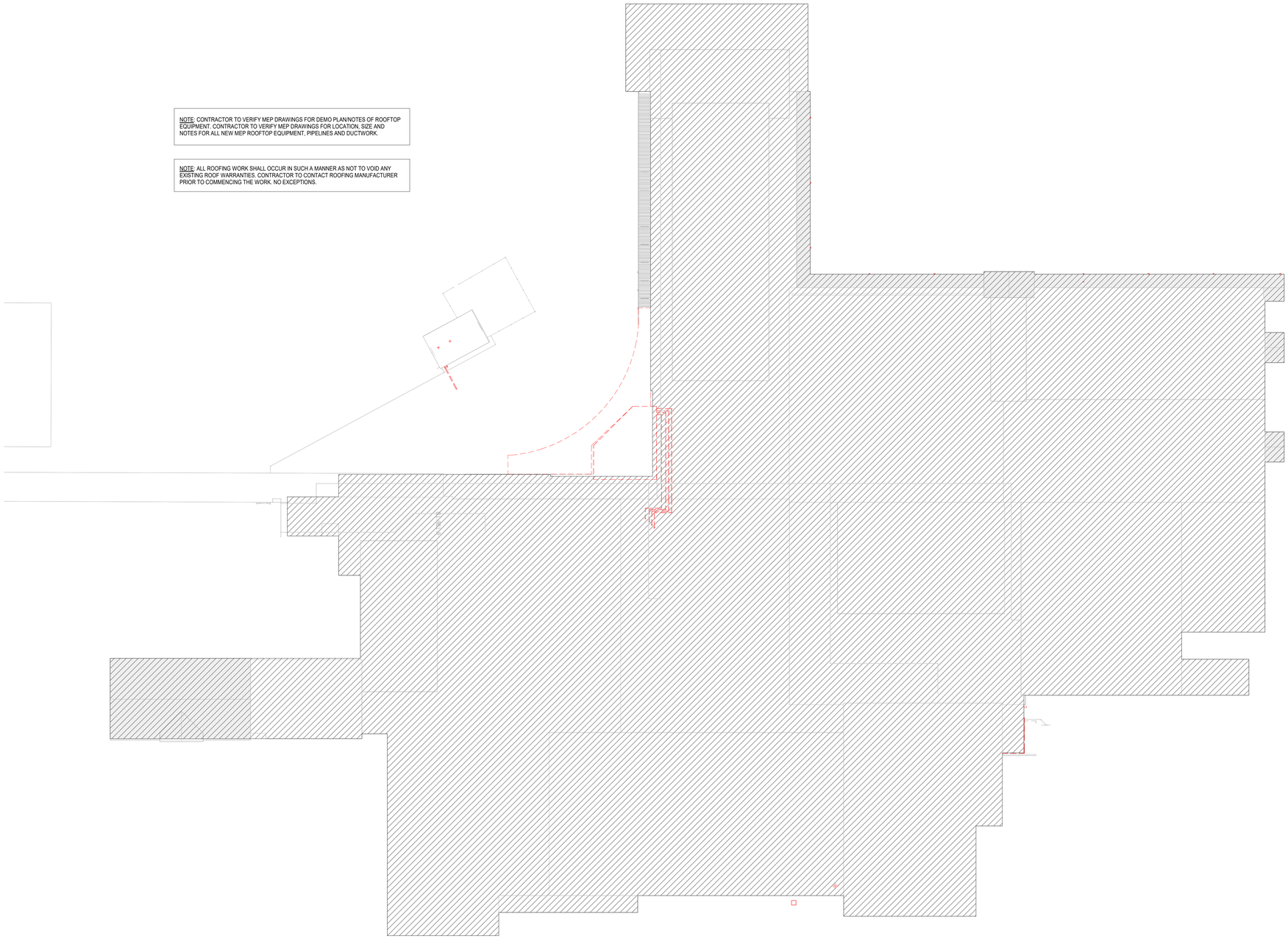
0"

1"

ISSUE FOR PROPOSAL

NOTE: CONTRACTOR TO VERIFY MEP DRAWINGS FOR DEMO PLAN/NOTES OF ROOFTOP EQUIPMENT. CONTRACTOR TO VERIFY MEP DRAWINGS FOR LOCATION, SIZE AND NOTES FOR ALL NEW MEP ROOFTOP EQUIPMENT, PIPELINES AND DUCTWORK.

NOTE: ALL ROOFING WORK SHALL OCCUR IN SUCH A MANNER AS NOT TO VOID ANY EXISTING ROOF WARRANTIES. CONTRACTOR TO CONTACT ROOFING MANUFACTURER PRIOR TO COMMENCING THE WORK. NO EXCEPTIONS.



06 DEMOLITION ROOF PLAN COMPOSITE
1" = 30'-0"

1. CONTRACTOR SHALL VISIT SITE TO ASCERTAIN EXACT EXISTING CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUEST FOR ADDITIONAL MONEY SHALL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING THE SITE VISIT BY THE CONTRACTOR, ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ACCEPTED MANUFACTURER'S PRINTED INSTRUCTIONS AND WARRANTY REQUIREMENTS.
2. DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN IN THESE CONSTRUCTION DOCUMENTS ARE FOR CONVEYANCE OF DESIGN INTENT ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL AND TYPE OF CONSTRUCTION OF EXISTING CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN AND CONFIRM.
3. REFER TO NOMENCLATURE FOR TYPE OF ROOF SYSTEM. ROOF AREAS ARE MARKED WITH DESIGNATED LETTER ON ROOF PLAN.
4. NOTE THAT SOME OF THE DETAILS DRAWN ARE GENERIC IN NATURE AND ARE NOT NECESSARILY LOCATED AND KEYED TO THE ROOF PLANS.
5. INDICATED ROOF HEIGHTS ARE GENERAL IN NATURE.
6. ALL NEW CRICKETS AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISHED 1/4" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20" IN WIDTH.
7. REMOVE ALL ABANDONED EQUIPMENT IDENTIFIED ON SITE AND AS SHOWN ON OTHERWISE ON THESE DOCUMENTS.
8. REPLACE ROTTED AND / OR OTHERWISE DETERIORATED ROOF DECK MATERIAL WITH LIKE MATERIAL AND THICKNESS.
9. REPLACE ROTTED AND / OR OTHERWISE DETERIORATED WOOD NAILER MATERIAL WITH LIKE MATERIAL AND THICKNESS.
10. PATCH EXISTING ROOF DECK FOR HOLES LESS THAN 10" WIDE BY ANCHORING 22 GA. STAINLESS STEEL SHEET METAL TO BOTTOM OF EXISTING GYPSUM ROOF DECK AND POURING NEW LIGHTWEIGHT GYPSUM TO MATCH THICKNESS. PATCH EXISTING ROOF DECK FOR HOLES GREATER THAN 10" WIDE BY ANCHORING 22 GA. STAINLESS STEEL SHEET METAL TO BOTTOM OF EXISTING GYPSUM ROOF DECK SPANNING FROM JOIST TO JOIST.
11. AS APPLICABLE, ALL HVAC AND / OR DX UNITS, ELECTRICAL TRANSFORMERS, ROOF TOP EQUIPMENT, ETC. THAT ARE ON SLEEPERS SHALL BE DISCONNECTED / REMOVED, RAISED, AND PLACED ON NEW CURBED PLATFORMS AS DETAILED AND REINSTALLED / RECONNECTED. ALL CURB MOUNTED HVAC UNITS, EQUIPMENT, ETC. SHALL HAVE A MINIMUM 10" CURB HEIGHT AND ARE TO BE RAISED AS REQUIRED.
12. ALL DISCONNECTS AND RECONNECTS SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
13. WORK TO ANY EXISTING UTILITY CONDUIT OR PIPE SHALL BE PERFORMED BY SPECIFIC LICENSED SUBCONTRACTORS SPECIALIZING IN HVAC, PLUMBING AND ELECTRICAL WORK. PERMITS AND INSPECTIONS ARE REQUIRED. REROUTE AND / OR MODIFY UTILITY CONDUIT OR PIPE AS REQUIRED TO BE INSTALLED AS DETAILED.
14. PROVIDE A "MERCURY" GAS LINE TEST (COORDINATE WITH OWNER AND ARCHITECT FOR WITNESS OF THE TEST). REPAIR ANY FOUND LEAKS AND RETEST AS REQUIRED.
15. UNLESS INDICATED OTHERWISE ON THE CONSTRUCTION DOCUMENTS, REPLACE AND RAISE (AS REQUIRED) ALL EXISTING EXPANSION JOINTS / AREA DIVIDERS / CURB MOUNTED EQUIPMENT / SKYLIGHTS A MIN. 10" ABOVE ROOF DECK.
16. ALL SOIL STACK FLASHING SHALL BE A MIN. 10" ABOVE FINISHED ROOF SURFACE. COUPLE PVC PIPE ABOVE DECK AND COUPLE CAST IRON PIPE BELOW DECK.
17. ALL PIPING/ CONDUIT/ ETC. SHALL BE A MIN. 10" ABOVE ROOF SURFACE, NEW AND EXISTING. PROVIDE PORTABLE PIPE HANGERS WITH PROTECTION PADS. RAISE EXISTING PIPING/ CONDUIT/ ETC. AS REQUIRED.
18. PROVIDE SHEET METAL HOODED (WITH METAL FACE CLOSURE) CAPS, WOOD CURB, BOX COVER AT ALL GAS AND WATER PIPE ROOF PENETRATIONS AS DETAILED. PROVIDE POSITIVE SLOPE AWAY FROM FACE COVER.
19. PROVIDE WALKWAY PROTECTION PADS AS SPECIFIED AROUND ALL ROOF HATCHES, HVAC ROOFTOP UNITS, DOORS THAT OPEN ONTO ROOF AND AT TOP AND BOTTOM OF ALL ROOF TOP ACCESS LOCATIONS.
20. INSTALL NEW SPLASH PAN AT ALL LOCATIONS WHERE ROOF DRAINAGE DISCHARGES ONTO ROOF AREA. INSTALL NEW SPLASH BLOCKS WHERE ROOF DRAINAGE DISCHARGES ON GROUND.
21. ISOLATE ALL HEAT PIPES / FLUES AS DETAILED AND RECOMMENDED AND OUTLINED IN THE NRCA MANUAL FOR HOT STACK FLASHING.
22. ALL OUTSIDE AIR INTAKES SHALL BE COVERED TO ELIMINATE ODORS AND FUMES FROM ENTERING INTO THE BUILDING DURING CONSTRUCTION WORK.
23. EXAMINE AND CLEAN EXISTING DRAIN LINES OF DEBRIS AND BLOCKAGE. FLUSH WITH WATER TO ENSURE THAT DRAINS FLOW FREELY. REPAIR EXISTING DRAINS AS REQUIRED.
24. OWNER WILL VERIFY PROPER OPERATION OF ALL ROOF TOP EQUIPMENT BEFORE AND AFTER THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL INOPERABLE EQUIPMENT PRIOR TO RELEASE OF RETAINAGE.
25. REPLACE ALL RUSTED AND / OR DETERIORATED EXISTING METAL VENT FLASHING AND FLUES.
26. PRIOR TO COMMENCEMENT OF WORK, COORDINATE WALK OF ENTIRE ROOF WITH ROOFING MANUFACTURER'S TECHNICAL REPRESENTATIVE TO IDENTIFY AND LOCATE ALL AREAS OF HIGH SLOPE OR OTHER CONDITIONS WHICH MIGHT REQUIRE SPECIAL PROCEDURES FOR SYSTEM ATTACHMENT.
27. PROVIDE ONE WAY MOISTURE VENTS AT ALL LIGHTWEIGHT CONCRETE OR GYPSUM OVER POUR AREAS AS RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER.
28. PAINT ALL EXPOSED GAS PIPE TO REMAIN.
29. PROVIDE RETROFIT DRAIN KIT FOR EACH EXISTING ROOF DRAIN. RE: SPECS.
30. ALL ROOFING WORK SHALL OCCUR IN SUCH A MANNER AS NOT TO VOID ANY EXISTING ROOF WARRANTIES. CONTRACTOR TO CONTACT ROOFING MANUFACTURER PRIOR TO COMMENCING THE WORK. NO EXCEPTIONS.

07 GENERAL NOTES (EXISTING)
1 1/2" = 1'-0"

NEW ROOF DRAIN	GOOSE NECK VENT		EXHAUST AND SUPPLY FAN ON SINGLE CURB
EXIST. ROOF DRAIN	AC CURB MOUNTED AC		RIDGE LINE
OF OVERFLOW DRAINS	SPLASH BLOCK		EXISTING AREA TO REMAIN -NIC
FLANGE VENT	SPLASH PAN		NEW TAPERED INSULATION / CRICKET
PITCH PAN	A/C ON POSTS		NEW LT. WT. CONCRETE INSULATION/ CRICKET
VENT THROUGH ROOF	ROOF HATCH	A1	ROOF AREA DESIGNATION
WALL DRAIN	SL SKYLIGHTS		TAPERED LIGHT WEIGHT CONCRETE
CURB MOUNTED VENT	ANTENNA		DESIGNATES EXTENTS OF WORK IDENTIFIED BY KEYED NOTES
CURB MOUNTED INTAKE	SATELLITE DISH	AD	AREA DIVIDER
ABANDONED CURB TO BE REMOVED / PATCHED	SCUPPER	EJ	EXPANSION JOINT
A ABANDON EQUIP.	GUTTER	C	CONDENSATE LINE
GUY WIRE	DS DOWNSPOUT	W	WATER LINE
POWER VENT	WALL LADDER	E	ELEC. LINE
HEATER VENT	SWING LADDER	G	GAS LINE
BOILER VENT			
TURBINE VENT			
PB PIPE BOX			

01 ROOFING - LEGEND (DEMO/EXIST)
1 1/2" = 1'-0"

PBK

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STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEP/T
LEAF
T 713-540-3300
ACOUSTIC
SSA
T 512-476-3464
FOOD SERVICE
SSA
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
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CYPRESS, TX 77429
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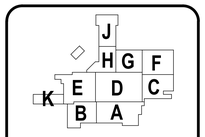

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

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Cy-Fair Independent School District

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DRAWING HISTORY

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ISSUE FOR PROPOSAL

BUILDING NUMBER

ROOF PLAN DEMOLITION - COMPOSITE

AD302

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Author
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0"
1"

DEMOLITION DETAIL PHOTOS
AD701
FOR BLUEBEAM LABELING/OCR:

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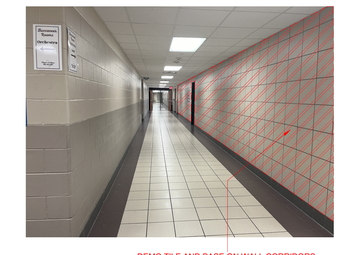
IMAGES ARE SHOWN TO CLARIFY EXISTING CONDITIONS. DO NOT LIMIT DEMOLITION SCOPE TO WHAT IS SHOWN ON THIS SHEET. REFER TO DRAWINGS.

06 CORRIDOR DEMO Copy 1
1" = 40'-0"

05 CORRIDOR DEMO Copy 1 Copy 1 Copy 1 Copy 1
1" = 40'-0"



03 CORRIDOR DEMO
1" = 40'-0"

02 DEMO TILE TYP.
1" = 40'-0"

09 CORRIDOR DEMO Copy 2
1" = 40'-0"

08 CORRIDOR DEMO Copy 2 Copy 1
1" = 40'-0"

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DATE	PROJECT NUMBER
02/17/2025	220023

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ISSUE FOR PROPOSAL

BUILDING NUMBER

DEMOLITION DETAIL PHOTOS

AD701

0"
1"

DEMOLITION DETAILS PHOTOS

AD702

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PROPOSAL

ISSUE FOR P

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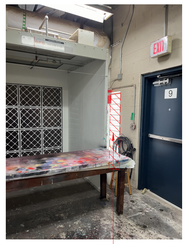
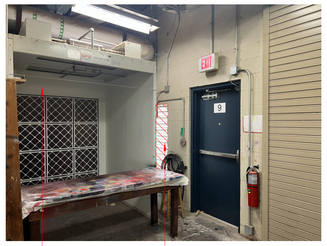
DEMO TROPHY SHELF

DEMO TROPHY SHELF

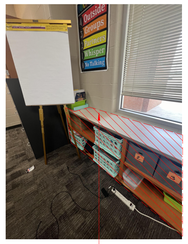
26 CHOIR TROPHY SHELVING
1" = 40'-0"

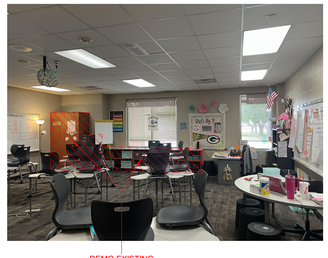

EXISTING LOUVER TO BE DEMOLISHED


DEMO EXISTING PAINT BOOTH

EXISTING LOUVER TO BE DEMOLISHED

24 PAINT BOOTH - AREA A
1" = 40'-0"


DEMO EXISTING CASEWORK


DEMO EXISTING CASEWORK

22 CLASSROOM CASEWORK- TYP
1" = 40'-0"

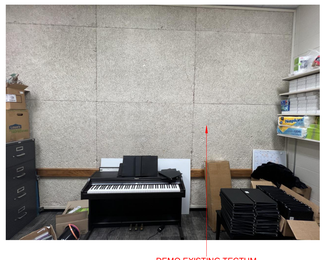
PROTECT EXISTING SINK CASEWORK AND PLUMBING FIXTURES

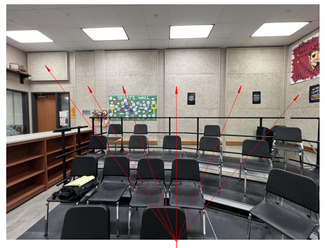
DEMO EXISTING COUNTERTOP AND BACK SPLASH

20 ART CASEWORK- TYP - AREA B
1" = 40'-0"

DEMO WATER FOUNTAIN AND PLUMBING

19 WATER FOUNTAIN - TYP
1" = 40'-0"


DEMO EXISTING TECTUM ACOUSTICAL PANELS


DEMO EXISTING TECTUM ACOUSTICAL PANELS

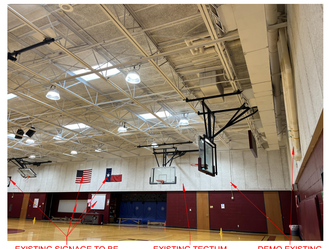
18 TECTUM PANEL / CHOIR AND PRACTICE ROOM - AREA A
1" = 40'-0"

LOGOS TO REMAIN PROTECT IN PLACE

ALL WALL PADS TO BE REMOVED AND REINSTALLED FOR PAINTING

EXISTING TECTUM PANELS TO BE CLEANED AND PREPPED TO BE PAINTED

EXISTING SIGNAGE TO BE REMOVED AND REINSTALLED BY OWNER. G.C. TO COORDINATE WITH OWNER PRIOR TO PAINT AND PREP

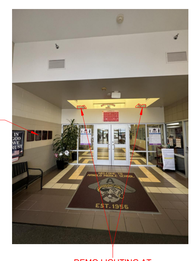

EXISTING SIGNAGE TO BE REMOVED AND REINSTALLED BY OWNER. G.C. TO COORDINATE WITH OWNER PRIOR TO PAINT AND PREP

EXISTING TECTUM PANELS TO BE CLEANED AND PREPPED TO BE PAINTED

DEMO EXISTING CONDUIT AND REPLACE REF: MEPT

16 GYM SIGNAGE - TYP
1" = 40'-0"

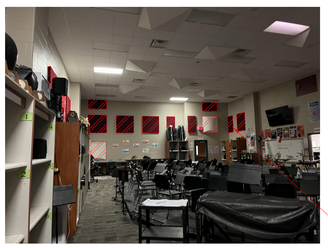
EXISTING SIGNAGE TO BE REMOVED AND REINSTALLED BY OWNER. G.C. TO COORDINATE WITH OWNER PRIOR RO PAINT AND PREP


DEMO LIGHTING AT SKYLIGHTS

EXISTING GRAPHIC TO REMAIN AND BE PROTECTED DURING PAINT

DEMO LIGHTING AT SKYLIGHTS

14 LIGHTING FIXTURES AT SKYLIGHTS - TYP
1" = 40'-0"


DEMO ALL ACOUSTICAL PANELS AND MOUNTING BRACKETS. PATCH WALLS AND PREP FOR NEW PAINT

12 ACOUSTICAL PANELS DEMO - TYP
1" = 40'-0"

RE: 26/ASD101 FOR NOTES REGARDING PLASTER SOFFIT

EXISTING CANOPY TO REMAIN

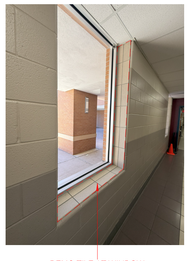
EXISTING CANOPY TO BE DEMOLISHED

DEMO CANOPY AND CANOPY COLUMNS

10 CANOPY DEMO - AREA J
1" = 40'-0"

DEMO TILE AND BASE ON WALL CORRIDORS; PROVIDE NEW TILE BACKER BOARD

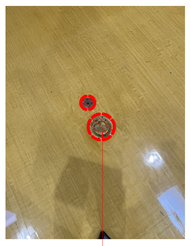
08 WALL TILE - TYP
1" = 40'-0"


DEMO TILE AT WINDOW JAMBS AND SILL

07 WINDOW TILE - AREA J
1" = 40'-0"

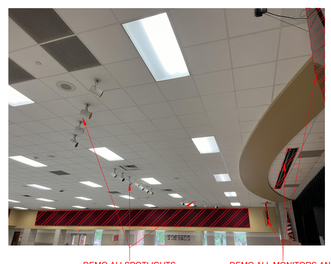
DEMO TILE

06 CAFETERIA TILE - AREA J
1" = 40'-0"


DEMO VOLLEYBALL SLEEVES TYP.

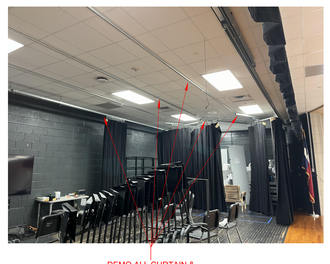
05 DEMO VOLLEYBALL SLEEVES
1" = 40'-0"

DEMO ALL ACOUSTICAL PANELS AND MOUNTING BRACKETS. PATCH WALLS AND PREP FOR NEW PAINT


DEMO ALLSPOTLIGHTS

DEMO ALL MONITORS AND PROJECTOR SCREEN

04 CAFETERIA CEILING - AREA J
1" = 40'-0"


DEMO ALL CURTAIN & TRACKS

DEMO PROJECTOR SCREEN

DEMO ALL CURTAIN & TRACKS

02 STAGE CEILING - AREA J
1" = 40'-0"

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PBK

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STRUCTURAL
KUBENKA ENGINEERS
T-713-840-7343

MEPT
LEAF
T-713-540-3300

ACOUSTIC
ACOUSTIC
T-512-476-3664

FOOD SERVICE
FSC
T-281-256-2225

POOL/AQUATICS
CONSULTANT NAME
T-000-000-0000

Arnold Middle School

11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

J
H G F
K E D C
B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT
BRANDON D. WISE
STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

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DRAWING HISTORY

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ISSUE FOR PROPOSAL

BUILDING NUMBER

DEMOLITION DETAILS PHOTOS

AD702

PROPOSAL

ISSUE FOR P

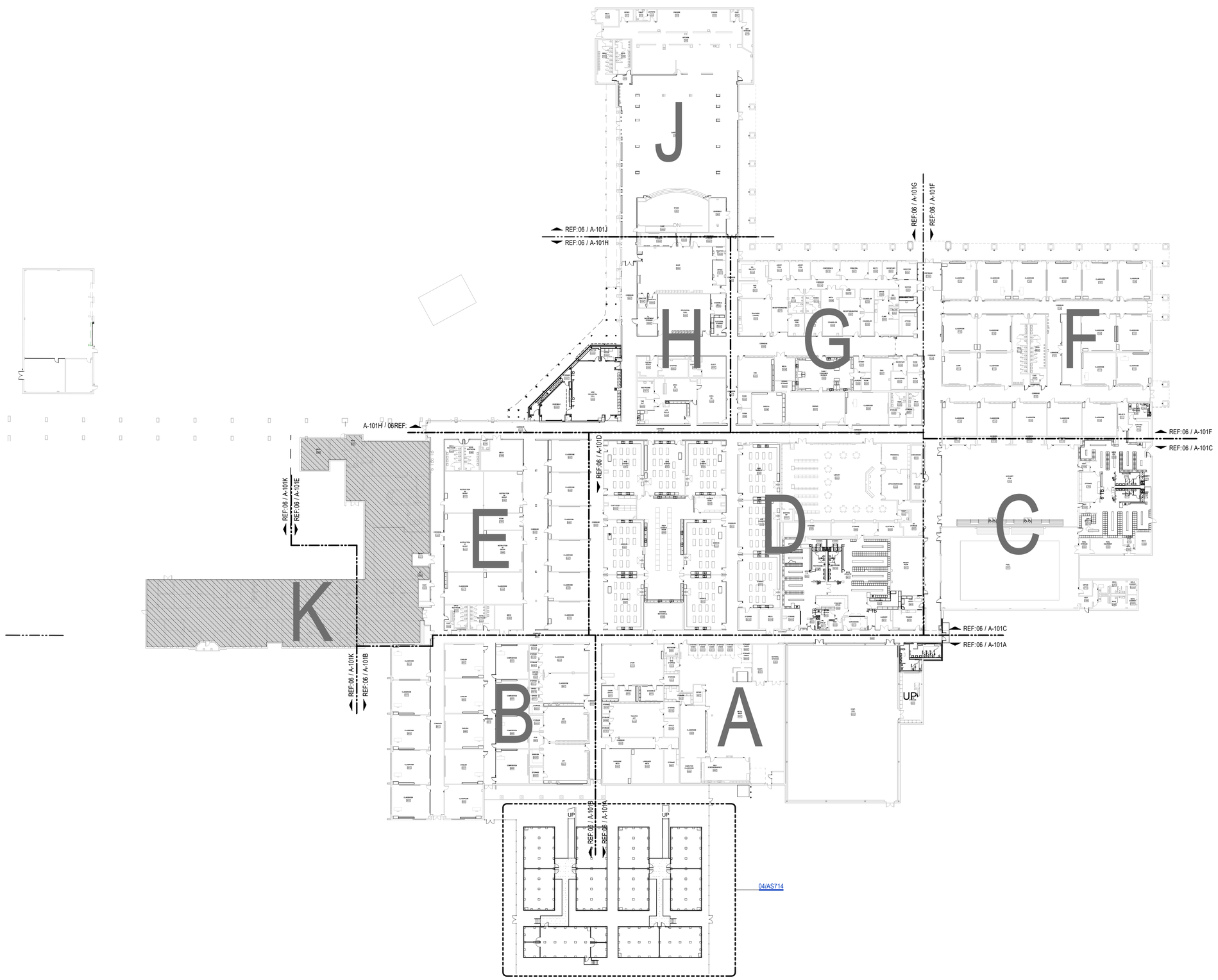
1ST FLOOR PLAN - COMPOSITE

A-101

FOR BLUEBEAM LABELING/OCR:

0"

1"



06 1ST LEVEL - FLOOR PLAN - COMPOSITE
1" = 30'-0"

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Arnold Middle School
11111 TEL GE RD.
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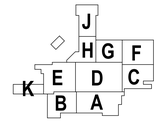
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN - COMPOSITE

A-101

1ST FLOOR PLAN - AREA A

A-101A

FOR BLUEBEAM LABELING/OCR:

0"

1"

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M8 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M6.C U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOOR FRAMES SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

30 GENERAL ARCH PLAN NOTES

AT ALL NEW CASEWORK PROVIDE NEW 4" RUBBER BASE

ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE PAINTED.

ALL ROOMS TO RECEIVE NEW ROOM SIGNAGE AND WAY FINDING AT SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL.

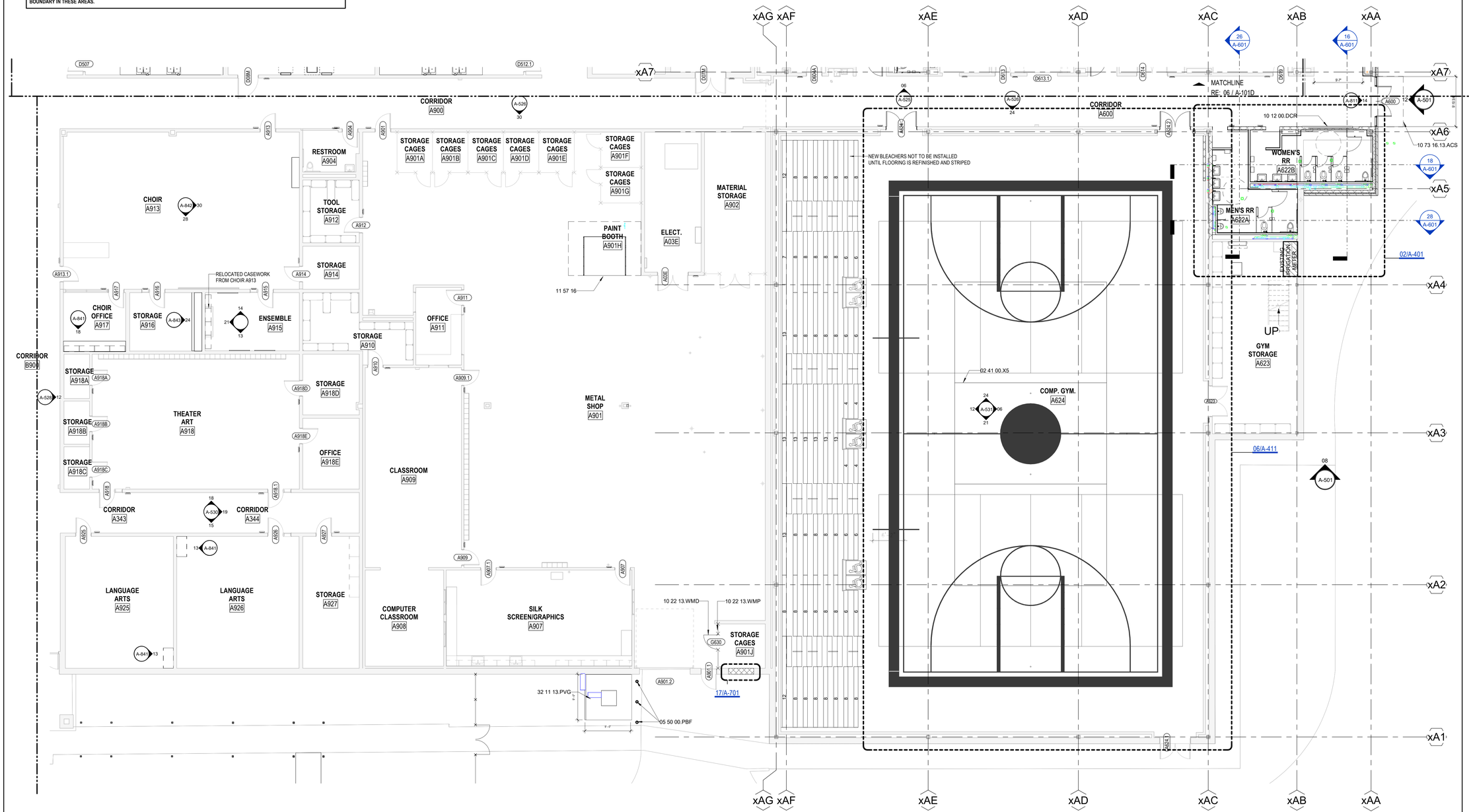
ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING TILE TO RECEIVE PAINT THROUGHOUT CAMPUS G.C. SHALL REINSTALL ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATE W/ CAMPUS PRIOR TO REINSTALLATION. RE: MEPT FOR ADDITIONAL SCOPE.

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.X5	REFINISH EXISTING GYM FLOORING AND RESTRIPE. RESTRIPING TO MATCH EXISTING STRIPING LAYOUT. RE: SPECS. G.C TO CLEAN/DUST SPACE IN ITS ENTIRETY FROM FLOOR TO ROOF DECK INCLUDING ALL ROOFING STRUCTURE.
05 50 00.PBF	PIPE BOLLARD, FIXED
10 12 00.DCR	4' DEEP RECESSED DISPLAY CASE
10 22 13.WMD	WIRE MESH DOOR
10 22 13.WMP	WIRE MESH PARTITION
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM
11 57 16	PAINT BOOTH
32 11 13.PVG	CONCRETE PAVING, REFER TO CIVIL

25 KEYNOTES



06 1ST LEVEL - FLOOR PLAN - AREA A

1/8" = 1'-0"

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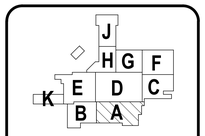

DISCIPLINE

REGISTERED ARCHITECT BRANDON M. KOCH 27149 STATE OF TEXAS

01.20.2025

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Cy-Fair Independent School District

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1ST FLOOR PLAN - AREA A

A-101A

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1ST FLOOR SCHEDULES - AREA A

A-101A1

DOOR SCHEDULE REMARKS

1. PANIC EXIT HARDWARE
2. NOT AN ENTRY DOOR, EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
3. NO LOCKING HARDWARE
4. ELEC. DOOR OPENER
5. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
6. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
7. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
8. KEYED REMOVABLE CENTER MULLION
9. CENTER ASTRAGAL
10. 180 DEGREE SWING
11. CONT. HINGE
12. WEATHER-STRIP SEAL
13. FIRE SMOKE SEAL
14. SOUND SEAL
15. PEEP HOLE
16. DOOR BUZZER
17. DOOR CHIME ON OPEN
18. MANUAL HOLD-OPEN
19. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
20. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
21. INSULATED DOOR
22. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
23. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
24. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
25. MANUAL PUSH-UP OPERATION
26. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
27. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
28. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
29. PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
30. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
31. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
32. FAIL SAFE IN OPEN POSITION
33. FAIL SAFE IN CLOSED POSITION
34. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
35. SIGNAGE ON DOOR TO READ "NOT AN EXIT"
36. EXISTING DOOR TO REMAIN. NEW HARDWARE ONLY
37. EXISTING DOOR AND HARDWARE TO REMAIN. NEW CARD READER ONLY.
38. NEW DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.
39. NEW DOOR AND HARDWARE. PATCH AND REPAIR EXISTING FRAME AS REQD.
40. PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING DOOR GLAZING TO BE PREPPED TO RECEIVE SECURITY FILM
41. PROVIDE AND INSTALL SECURITY FILM RE: SPECS.
42. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 10/A-811.
43. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 11/A-811.
44. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 12/A-811.
45. DOORS TO BE WRAPPED WITH DIGITALLY PRINTED VINYL GRAPHIC RE: SPEC 12.11.00

EXISTING DOOR SCHEDULE - AREA A

DOOR			PANEL					FRAME							GENERAL			
												DETAIL						
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
A03E	6'-0"	6'-10"	F / F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A623	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A624.1	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	07/A-812	01/A-812	13/A-812				15, DOOR GRAPHIC
A901	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A901.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	07/A-812	01/A-812	13/A-812				37, 15
A901.2	10'-0"	9'-0"	OHC- PS	1 3/4"	EXIST	EXIST	EXIST	00HS	EXIST	EXIST							NO SCOPE
A904	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A907	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A907.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A909	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A909.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A910	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A911	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A912	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A913	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A913.1	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A914	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A915	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	011	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A916	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	011	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A917	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A918	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	011	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A918.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	011	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A918A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A918B	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A918C	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A918D	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A918E	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A925	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A926	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	011	EXIST	PT	09/A-812	03/A-812	15/A-812				36
A927	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36

NEW DOOR SCHEDULE - AREA A

DOOR			PANEL					FRAME				DETAIL			GENERAL			
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	GLASS TYPE	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
A600	6'-0"	7'-0 3/8"	HG-2 / HG-2	1 3/4"	<By Category>	Aluminum - Dark	<By Category >	CW-4	<By Categor y>	08_Mullion, Storefront, Aluminum	<By Category >							
A624	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	PL	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				38, 45,15, DOOR GRAPHIC
A624.2	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	PL	PL-1	NONE	001	HM	PT	NONE	09/A-812	03/A-812	15/A-812				45

WINDOW SCHEDULE REMARKS

1. PROVIDE HORIZONTAL BLINDS
2. PROVIDE MANUAL SUNSHADE
3. PROVIDE MOTORIZED SUNSHADE
4. PROVIDE MOTORIZED SUNSHADE AND BLACKOUT SHADE
5. PROVIDE BLACKOUT SHADE

WINDOW SCHEDULE - AREA A

MARK	SIZE		ELEVATION	REMARKS
	WIDTH	HEIGHT		

STOREFRONT & CURTAIN WALL SCHEDULE - AREA A

MARK	FRAME SIZE W x H		ELEVATION	FRAME		DETAILS			REMARKS
	WIDTH	HEIGHT		FRAME MATERIAL	FRAME DEPTH	HEAD	JAMB	SILL	
A600	10'-2 35/64"	9'-0"	14/A-811	ALUM	4 1/2"	26/A-812	08/A-81; 20/A-812		

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL H.M. DOORS U.N.O.

PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

PAINT ACCENT COLOR (P7) ON TEACHING WALL WITHIN CLASSROOMS

LAY-IN CEILING TYPES
TYPE A: STANDARD MINERAL FIBER, ANTIMICROBIAL, 24"X24"
TYPE B: GLASS FIBER, HIGH NRC, ANTIMICROBIAL, 24"X24"
TYPE C: VINYL-FACED MINERAL FIBER, ANTIMICROBIAL, 24"X24"
TYPE D: IMPACT RESISTANT, MINERAL FIBER, ANTIMICROBIAL, 24"X24"
TYPE E: WOOD FIBER, 24"X24"
TYPE F: MINERAL FIBER, ANTIMICROBIAL, 24"X24"

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO CEILING PLANS
4. 48"H FRP WAINSCOT AT MOP SINK. EXTEND 24" EACH SIDE BEYOND SINK EDGES.
5. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
6. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND. PAINT
7. PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
8. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
9. PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
10. DO NOT PAINT ACOUSTICAL STRUCT. DECK
11. 1-HR FIRE RATED CEILING ASSEMBLY
12. 2-HR FIRE RATED CEILING ASSEMBLY
13. DOUBLE CEILING ASSEMBLY, REFER TO _____
14. HOLD-DOWN CLIPS AT SUSP. LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION

ROOM FINISH SCHEDULE - AREA A

ROOM DATA			BASE	WALL FINISHES				CEILINGS	
№	NAME	FLOOR FINISH	FINISH	NORTH	EAST	SOUTH	WEST	FINISH	COMMENTS
A03E	ELECT.			P1	P1	P1	P1		
A343	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
A344	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
A600	CORRIDOR	T3/T4/CP2	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
A622A	MEN'S RR	T5	T12	T7/T8/T9	T7/T8/T9	T7/T8/T9	T7/T8/T9		
A622B	WOMEN'S RR	T5	T12	T7/T8/T9	T7/T8/T9	T7/T8/T9	T7/T8/T9		
A623	GYM STORAGE			P1	P1	P1	P1		
A624	COMP. GYM.	WD	RB1	P5/P3/P2	P5/P3/P2	P5/P3/P2	P5/P3/P2		
A900	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
A901	METAL SHOP			P1	P1	P1	P1		
A901A	STORAGE CAGES			P1	P1	P1	P1		
A901B	STORAGE CAGES			P1	P1	P1	P1		
A901C	STORAGE CAGES			P1	P1	P1	P1		
A901D	STORAGE CAGES			P1	P1	P1	P1		
A901E	STORAGE CAGES			P1	P1	P1	P1		
A901F	STORAGE CAGES			P1	P1	P1	P1		
A901G	STORAGE CAGES			P1	P1	P1	P1		
A901H	PAINT BOOTH			P1	P1	P1	P1		
A901J	STORAGE CAGES			P1	P1	P1	P1		
A902	MATERIAL STORAGE			P1	P1	P1	P1		
A904	RESTROOM								
A907	SILK SCREEN/GRAPHICS	RFT1/RFT2/RFT3	RB1	P7	P1	P1	P1		
A908	COMPUTER CLASSROOM	RFT1/RFT2/RFT3	RB1	P1	P1	P7	P1		
A909	CLASSROOM	RFT1/RFT2/RFT3	RB1	P1	P7	P1	P1		
A910	STORAGE			P1	P1	P1	P1		
A911	OFFICE			P1	P1	P1	P1		
A912	TOOL STORAGE			P1	P1	P1	P1		
A913	CHOIR	RFT1/RFT2/RFT3	RB1	P1/P2/P3	P1/P2/P3	P1/P2/P3	P1/P2/P3		
A914	STORAGE			P1	P1	P1	P1		
A915	ENSEMBLE			P1	P1	P1	P1		
A916	STORAGE			P1	P1	P1	P1		
A917	CHOIR OFFICE			P1	P1	P1	P1		
A918	THEATER ART	RFT1/RFT2/RFT3	RB1	P1	P1	P7	P1		
A918A	STORAGE	RFT1	RB1	P1	P1	P1	P1		
A918B	STORAGE	RFT1	RB1	P1	P1	P1	P1		
A918C	STORAGE	RFT1	RB1	P1	P1	P1	P1		
A918D	STORAGE	RFT1	RB1	P1	P1	P1	P1		
A918E	OFFICE	RFT1	RB1	P1	P1	P1	P1		
A925	LANGUAGE ARTS			P1	P1	P1	P7		
A926	LANGUAGE ARTS			P1	P7	P1	P1		
A927	STORAGE	RFT1	RB1	P1	P1	P1	P1		
E434	CUST.			P1	P1	P1	P1		
E443	STORAGE CAGES			P1	P1	P1	P1		
E445	STORAGE CAGES			P1	P1	P1	P1		
Grand total									

0" 1"

1ST FLOOR SCHEDULES - AREA A A-101A1

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

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A-101A1

0"
1"

1ST FLOOR PLAN - AREA B

A-101B

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M8 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M6.C U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOOR FRAMES SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

30 GENERAL ARCH PLAN NOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION

25 KEYNOTES

AT ALL NEW CASEWORK PROVIDE NEW 4" RUBBER BASE

ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE PAINTED.

ALL ROOMS TO RECEIVE NEW ROOM SIGNAGE AND WAY FINDING AT SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL.

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING TILE TO RECEIVE PAINT THROUGHOUT CAMPUS G.C. SHALL REINSTALL ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATE W/ CAMPUS PRIOR TO REINSTALLATION. RE: MEPT FOR ADDITIONAL SCOPE.

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

06 1ST LEVEL - FLOOR PLAN - AREA B

1/8" = 1'-0"

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PBK

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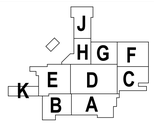
KUBENKA ENGINEERS
T 713-840-7343
MEPT
LEAP
T 713-540-3300
ACOUSTIC
IBS
T 512-476-3664
FOOD SERVICE
IBS
T 281-356-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TEL GF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN - AREA B

A-101B

PBK
ARCHITECT PBK Architects, Inc.
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Houston, TX 77046
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713-961-4571 F
TX Firm: BR 1608
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STRUCTURAL
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MEP/T
LEAP
T 713-540-3200
ACOUSTIC
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FOOD SERVICE
RSPA
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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

DISCIPLINE

REGISTERED ARCHITECT
BRANDON D. BOX
27548
STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

PROJECT NUMBER	DATE
220023	02/17/2025

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR SCHEDULES - AREA B

A-101B1

DOOR SCHEDULE REMARKS

1. PANIC EXIT HARDWARE
2. NOT AN ENTRY DOOR, EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
3. NO LOCKING HARDWARE
4. ELEC. DOOR OPENER
5. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
6. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
7. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
8. KEYED REMOVABLE CENTER MULLION
9. CENTER ASTRAGAL
10. 180 DEGREE SWING
11. CONT. HINGE
12. WEATHER-STRIP SEAL
13. FIRE SMOKE SEAL
14. SOUND SEAL
15. PEEP HOLE
16. DOOR BUZZER
17. DOOR CHIME ON OPEN
18. MANUAL HOLD-OPEN
19. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
20. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
21. INSULATED DOOR
22. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
23. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMLBY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
24. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
25. MANUAL PUSH-UP OPERATION
26. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
27. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
28. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
29. PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
30. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
31. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
32. FAIL SAFE IN OPEN POSITION
33. FAIL SAFE IN CLOSED POSITION
34. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
35. SIGNAGE ON DOOR TO READ "NOT AN EXIT"
36. EXISTING DOOR TO REMAIN. NEW HARDWARE ONLY
37. EXISTING DOOR AND HARDWARE TO REMAIN. NEW CARD READER ONLY.
38. NEW DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.
39. NEW DOOR AND HARDWARE. PATCH AND REPAIR EXISTING FRAME AS REQD.
40. PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING DOOR GLAZING TO BE PREPPED TO RECEIVE SECURITY FILM
41. PROVIDE AND INSTALL SECURITY FILM RE: SPECS.
42. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 10/A-811.
43. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 11/A-811.
44. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 12/A-811.
45. DOORS TO BE WRAPPED WITH DIGITALLY PRINTED VINYL GRAPHIC RE: SPEC 12.11.00

EXISTING DOOR SCHEDULE - AREA B

DOOR			PANEL					FRAME						GENERAL			
											DETAIL						
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
B809	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B810	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B811	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	07/A-812	01/A-812	13/A-812				40
B812	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B813	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	07/A-812	01/A-812	13/A-812				40
B814	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B816	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B818	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B900	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	07/A-812	01/A-812	13/A-812				40
B919	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	011	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B919A	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B919B	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B919C	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B920	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B920.1	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B921	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	011	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B921.1	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B921A	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B921B	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B921C	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B922	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	011	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B922.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B922A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B922B	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B923	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B923.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B924	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	011	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B924A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
B924B	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36

NEW DOOR SCHEDULE - AREA B

DOOR			PANEL					FRAME				DETAIL			GENERAL			
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	GLASS TYPE	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
B801	3'-0"	6'-10"	NV-1	1 3/4"	PL	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				36
B802	3'-0"	6'-10"	NV-1	1 3/4"	PL	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				39
B803	3'-0"	6'-10"	NV-1	1 3/4"	PL	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				39
B804	3'-0"	6'-10"	NV-1	1 3/4"	PL	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				39
B805	3'-0"	6'-10"	NV-1	1 3/4"	PL	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				39
B806	3'-0"	6'-10"	NV-1	1 3/4"	PL	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				39
B807	3'-0"	6'-10"	NV-1	1 3/4"	PL	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				39
B808	3'-0"	6'-10"	NV-1	1 3/4"	PL	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				39

WINDOW SCHEDULE REMARKS

1. PROVIDE HORIZONTAL BLINDS
2. PROVIDE MANUAL SUNSHADE
3. PROVIDE MOTORIZED SUNSHADE
4. PROVIDE MOTORIZED SUNSHADE AND BLACKOUT SHADE
5. PROVIDE BLACKOUT SHADE

STOREFRONT & CURTAIN WALL SCHEDULE - AREA B

	FRAME SIZE W x H			FRAME		DETAILS			
MARK	WIDTH	HEIGHT	ELEVATION	FRAME MATERIAL	FRAME DEPTH	HEAD	JAMB	SILL	REMARKS

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL H.M. DOORS U.N.O.

PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

PAINT ACCENT COLOR (P7) ON TEACHING WALL WITHIN CLASSROOMS

LAY-IN CEILING TYPES
- TYPE A: STANDARD MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE B: GLASS FIBER, HIGH NRC, ANTIMICROBIAL, 24"X24"
- TYPE C: VINYL-FACED MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE D: IMPACT RESISTANT, MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE E: WOOD FIBER, 24"X24"
- TYPE F: MINERAL FIBER, ANTIMICROBIAL, 24"X24"

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO CEILING PLANS
4. 48"H FRP WAINSCOT AT MOP SINK. EXTEND 24" EACH SIDE BEYOND SINK EDGES.
5. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
6. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND. PAINT
7. PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
8. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
9. PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
10. DO NOT PAINT ACOUSTICAL STRUCT. DECK
11. 1-HR FIRE RATED CEILING ASSEMBLY
12. 2-HR FIRE RATED CEILING ASSEMBLY
13. DOUBLE CEILING ASSEMBLY, REFER TO _____
14. HOLD-DOWN CLIPS AT SUSP. LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION

ROOM FINISH SCHEDULE

ROOM DATA		FLOOR	BASE	WALL FINISHES				CEILINGS	
№	NAME	FINISH	FINISH	NORTH	EAST	SOUTH	WEST	FINISH	COMMENTS
B800	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
B801	ENGLISH			P1	P1	P1	P7		
B802	COMPOSITION			P1	P7	P1	P1		
B803	ENGLISH			P1	P1	P1	P7		
B804	COMPOSITION			P1	P7	P1	P1		
B805	ENGLISH			P1	P1	P1	P7		
B806	COMPOSITION			P1	P7	P1	P1		
B807	ENGLISH			P1	P1	P1	P7		
B808	COMPOSITION			P1	P7	P1	P1		
B809	CLASSROOM			P1	P1	P1	P7		
B810	CLASSROOM			P1	P7	P1	P1		
B811	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
B812	CLASSROOM			P1	P7	P1	P1		
B813	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
B814	CLASSROOM			P1	P7	P1	P1		
B816	CLASSROOM			P1	P7	P1	P1		
B818	CLASSROOM			P1	P7	P1	P1		
B900	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
B919	CLASSROOM			P7	P1	P1	P1		
B919A	STORAGE			P1	P1	P1	P1		
B919B	STORAGE			P1	P1	P1	P1		
B919C	STORAGE			P1	P1	P1	P1		
B920	SERVER CLOSET	RFT1	RB1	P1	P1	P1	P1		
B921	CLASSROOM			P1	P1	P1	P7		
B921A	STORAGE			P1	P1	P1	P1		
B921B	OFFICE			P1	P1	P1	P1		
B921C	OFFICE			P1	P1	P1	P1		
B922	ART			P1	P1	P1	P7		
B922A	STORAGE			P1	P1	P1	P1		
B922B	STORAGE			P1	P1	P1	P1		
B923	KILN			P1	P1	P1	P1		
B924	ART			P1	P1	P1	P7		
B924A	STORAGE			P1	P1	P1	P1		
B924B	WORKRM			P1	P1	P1	P1		
Grand total									

0" 1"

1ST FLOOR SCHEDULES - AREA B A-101B1

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

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0"
1"

1ST FLOOR PLAN - AREA C

A-101C

FOR BLUEBEAM LABELING/OCR:

PROPOSAL

ISSUE FOR PROPOSAL

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M9 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M6.C U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOOR FRAMES SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

30 GENERAL ARCH PLAN NOTES

X — LOCKER TYPE
LOCKER

TYPE A: FOUR TIER, 12" W X 12" H X 15" D W/ HDPE LOCKER TOP

TYPE B: DOUBLE TIER, 18" W X 36" H X 21" D

TYPE C: SINGLE TIER, 12" W X 60" H X 18" D

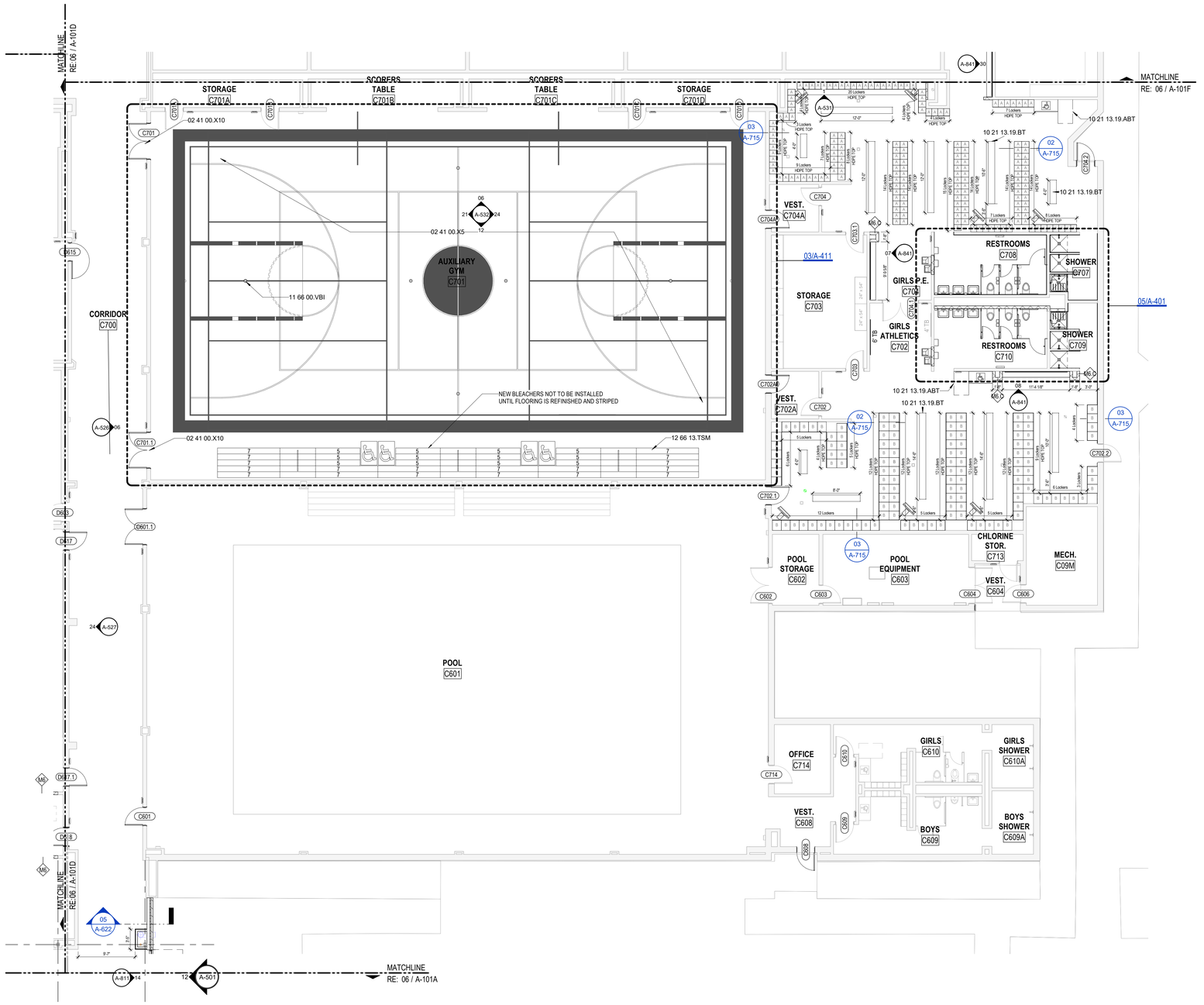
PROVIDE TRIM AND CORNER FILLER PANELS AT ALL INSIDE/OUTSIDE LOCKER BANKS, TYP.

26 LOCKER TYPES LEGEND

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.X5	REFINISH EXISTING GYM FLOORING AND RESTRIPE. RESTRIPING TO MATCH EXISTING STRIPING LAYOUT. RE: SPECS. G.C TO CLEAN/DUST SPACE IN ITS ENTIRETY FROM FLOOR TO ROOF DECK INCLUDING ALL ROOFING STRUCTURE.
02 41 00.X10	G.C TO PROVIDE TRANSOM MULLION ABOVE NEW DOORS. MULLION TO BE WELDED TO EXISTING FRAME AND TO BE COORDINATE WITH NEW DOOR AND DOOR HARDWARE. PROVIDE NEW REMOVABLE CENTER MULLION
10 21 13.19.ABT	ADA HDPE Bench Tops RE: 07/A-715
10 21 13.19.BT	HDPE BENCH TOP, Typ RE: 04/A-715
11 66 00.VBI	NEW VOLLEYBALL FLOOR INSERT COVER, TYP.
12 66 13.TSM	TELESCOPING BLEACHER, MANUALLY-OPERATED

25 KEYNOTES



AT ALL NEW CASEWORK PROVIDE NEW 4" RUBBER BASE

ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE PAINTED.

ALL ROOMS TO RECEIVE NEW ROOM SIGNAGE AND WAY FINDING AT SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL.

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING TILE TO RECEIVE PAINT THROUGHOUT CAMPUS G.C. SHALL REINSTALL ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATE W/ CAMPUS PRIOR TO REINSTALLATION. RE: MEPT FOR ADDITIONAL SCOPE.

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

06 1ST LEVEL - FLOOR PLAN - AREA C

1/8" = 1'-0"

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PBK

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713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL: BROOKS & SPARKS T 281-578-5599
LANDSCAPE: EDDELAND GROUP T 713-862-1666
STRUCTURAL: KUBENKA ENGINEERS T 713-840-7343
MEPT: LEAP T 713-540-3300
ACOUSTIC: ACOUSTX T 512-476-3664
FOOD SERVICE: RK T 281-256-2223
POOL/AQUATICS CONSULTANT NAME: T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN — NORTH: PLAN / TRUE

DISCIPLINE

REGISTERED ARCHITECT — BRANDON D. [illegible] — 27140 — STATE OF TEXAS

01.20.2025

CLIENT: Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN - AREA C

A-101C

PBK
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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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CYPRESS FAIRBANKS
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DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

PROJECT NUMBER	DATE
220023	02/17/2025

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR SCHEDULES - AREA C

A-101C1

DOOR SCHEDULE REMARKS

1. PANIC EXIT HARDWARE
2. NOT AN ENTRY DOOR, EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
3. NO LOCKING HARDWARE
4. ELEC. DOOR OPENER
5. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
6. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
7. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
8. KEYED REMOVABLE CENTER MULLION
9. CENTER ASTRAGAL
10. 180 DEGREE SWING
11. CONT. HINGE
12. WEATHER-STRIP SEAL
13. FIRE SMOKE SEAL
14. SOUND SEAL
15. PEEP HOLE
16. DOOR BUZZER
17. DOOR CHIME ON OPEN
18. MANUAL HOLD-OPEN
19. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
20. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
21. INSULATED DOOR
22. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
23. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMLBY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
24. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
25. MANUAL PUSH-UP OPERATION
26. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
27. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
28. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
29. PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
30. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
31. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
32. FAIL SAFE IN OPEN POSITION
33. FAIL SAFE IN CLOSED POSITION
34. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
35. SIGNAGE ON DOOR TO READ "NOT AN EXIT"
36. EXISTING DOOR TO REMAIN. NEW HARDWARE ONLY
37. EXISTING DOOR AND HARDWARE TO REMAIN. NEW CARD READER ONLY.
38. NEW DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.
39. NEW DOOR AND HARDWARE. PATCH AND REPAIR EXISTING FRAME AS REQD.
40. PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING DOOR GLAZING TO BE PREPPED TO RECEIVE SECURITY FILM
41. PROVIDE AND INSTALL SECURITY FILM RE: SPECS.
42. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 10/A-811.
43. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 11/A-811.
44. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 12/A-811.
45. DOORS TO BE WRAPPED WITH DIGITALLY PRINTED VINYL GRAPHIC RE: SPEC 12.11.00

EXISTING DOOR SCHEDULE - AREA C

DOOR			PANEL				FRAME						GENERAL			
										DETAIL						
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
C602	6'-0"	6'-10"	F / F	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
C603	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	EXIST	09/A-812	03/A-812	15/A-812				36
C604	6'-0"	6'-10"	F / F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	EXIST	07/A-812	01/A-812	13/A-812				36
C606	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	EXIST	07/A-812	01/A-812	13/A-812				36
C609	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
C610	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
C701A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
C701B	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	EXIST	09/A-812	03/A-812	15/A-812				36
C701C	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	EXIST	09/A-812	03/A-812	15/A-812				36
C701D	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	EXIST	09/A-812	03/A-812	15/A-812				36
C702	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
C702.2	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	EXIST	07/A-812	01/A-812	13/A-812				15
C703	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	EXIST	09/A-812	03/A-812	15/A-812				36
C703.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	EXIST	09/A-812	03/A-812	15/A-812				36
C704	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
C704.1	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
C714	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	EXIST	09/A-812	03/A-812	15/A-812				36
D603.1	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE

NEW DOOR SCHEDULE - AREA C

DOOR			PANEL				FRAME							GENERAL			
											DETAIL						
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	GLASS TYPE	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
C601	3'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	101	HM	PT	NONE	09/A-812	03/A-812	15/A-812				
C601.1	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	09/A-812	03/A-812	15/A-812				
C608	3'-0"	6'-10"	NV-1	1 3/4"	FRP	FRP	NONE	101	FRP	PT	NONE	07/A-812	01/A-812	13/A-812				37, 15
C701	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	WD	PL-1	NONE	101	HM	PT	NONE	09/A-812	03/A-812	15/A-812				45
C701.1	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	WD	PL-1	NONE	101	HM	EXIST	NONE	09/A-812	03/A-812	15/A-812				45
C702.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				
C702A	3'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				
C704.2	3'-0"	6'-10"	NV-1	1 3/4"	HM	PL-1	NONE	001	HM	PT	NONE	07/A-812	01/A-812	13/A-812				37, 15
C704A	3'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				
D603.2	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				

WINDOW SCHEDULE REMARKS

1. PROVIDE HORIZONTAL BLINDS
2. PROVIDE MANUAL SUNSHADE
3. PROVIDE MOTORIZED SUNSHADE
4. PROVIDE MOTORIZED SUNSHADE AND BLACKOUT SHADE
5. PROVIDE BLACKOUT SHADE

WINDOW SCHEDULE - AREA C

MARK	SIZE		ELEVATION	REMARKS
	WIDTH	HEIGHT		

STOREFRONT & CURTAIN WALL SCHEDULE - AREA C

	FRAME SIZE W x H			FRAME		DETAILS			
MARK	WIDTH	HEIGHT	ELEVATION	FRAME MATERIAL	FRAME DEPTH	HEAD	JAMB	SILL	REMARKS

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL H.M. DOORS U.N.O.

PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

PAINT ACCENT COLOR (P7) ON TEACHING WALL WITHIN CLASSROOMS

LAY-IN CEILING TYPES
- TYPE A: STANDARD MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE B: GLASS FIBER, HIGH NRC, ANTIMICROBIAL, 24"X24"
- TYPE C: VINYL-FACED MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE D: IMPACT RESISTANT, MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE E: WOOD FIBER, 24"X24"
- TYPE F: MINERAL FIBER, ANTIMICROBIAL, 24"X24"

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO CEILING PLANS
4. 48"H FRP WAINSCOT AT MOP SINK. EXTEND 24" EACH SIDE BEYOND SINK EDGES.
5. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
6. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND. PAINT
7. PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
8. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
9. PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
10. DO NOT PAINT ACOUSTICAL STRUCT. DECK
11. 1-HR FIRE RATED CEILING ASSEMBLY
12. 2-HR FIRE RATED CEILING ASSEMBLY
13. DOUBLE CEILING ASSEMBLY, REFER TO _____
14. HOLD-DOWN CLIPS AT SUSP. LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION

ROOM FINISH SCHEDULE - AREA C

ROOM DATA		FLOOR	BASE	WALL FINISHES				CEILINGS	
№	NAME	FINISH	FINISH	NORTH	EAST	SOUTH	WEST	FINISH	COMMENTS
C09M	MECH.								
C601	POOL								
C602	POOL STORAGE								
C603	POOL EQUIPMENT								
C608	VEST.								
C609	BOYS								
C609A	BOYS SHOWER								
C610	GIRLS								
C610A	GIRLS SHOWER								
C700	CORRIDOR	T3/T4/T5/T6	T11	T2/T7/T1	T2/T7/T11	T2/T7/T1	T2/T7/T1		
C701	AUXILIARY GYM	WD	RB2	P2/P5/P3	P2/P5/P3	P2/P5/P3	P2/P5/P3		
C701A	STORAGE			P1	P1	P1	P1		
C701B	SCORERS TABLE			P1	P1	P1	P1		
C701C	SCORERS TABLE			P1	P1	P1	P1		
C701D	STORAGE			P1	P1	P1	P1		
C702	GIRLS ATHLETICS	FF1	FF1	P5/P2/P3	P5/P2/P3	P5/P2/P3	P5/P2/P3		
C702A	VEST.	FF1	FF1	P5/P2/P3	P5/P2/P3	P5/P2/P3	P5/P2/P3		
C703	STORAGE			P1	P1	P1	P1		
C704	GIRLS P.E.	FF1	FF1	P5/P2/P3	P5/P2/P3	P5/P2/P3	P5/P2/P3		
C704A	VEST.	FF1	FF1	P5/P2/P3	P5/P2/P3	P5/P2/P3	P5/P2/P3		
C707	SHOWER	T10	T12	T7/T8/T9	T7/T8/T9	T7/T8/T9	T7/T8/T9		
C708	RESTROOMS	T5	T12	T7/T8/T9	T7/T8/T9	T7/T8/T9	T7/T8/T9		
C709	SHOWER	T10	T12	T7/T8/T9	T7/T8/T9	T7/T8/T9	T7/T8/T9		
C710	RESTROOMS	T5	T12	T7/T8/T9	T7/T8/T9	T7/T8/T9	T7/T8/T9		
C713	CHLORINE STOR.								
C714	OFFICE								
Grand total									

0" 1"

1ST FLOOR SCHEDULES - AREA C A-101C1

FOR BLUEBEAM LABELING/OCR:

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0" 1"

1ST FLOOR PLAN - AREA D

A-101D

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M9 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M6.C U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOOR FRAMES SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

30 GENERAL ARCH PLAN NOTES

AT ALL NEW CASEWORK PROVIDE NEW 4" RUBBER BASE

ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE PAINTED.

ALL ROOMS TO RECEIVE NEW ROOM SIGNAGE AND WAY FINDING AT SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL.

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING TILE TO RECEIVE PAINT THROUGHOUT CAMPUS G.C. SHALL REINSTALL ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATE W/ CAMPUS PRIOR TO REINSTALLATION. RE: MEPT FOR ADDITIONAL SCOPE.

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

X — LOCKER TYPE

LOCKER

TYPE A: FOUR TIER, 12" W X 12" H X 15" D

TYPE B: DOUBLE TIER, 18" W X 36" H X 21" D

TYPE C: SINGLE TIER, 12" W X 60" H X 18" D

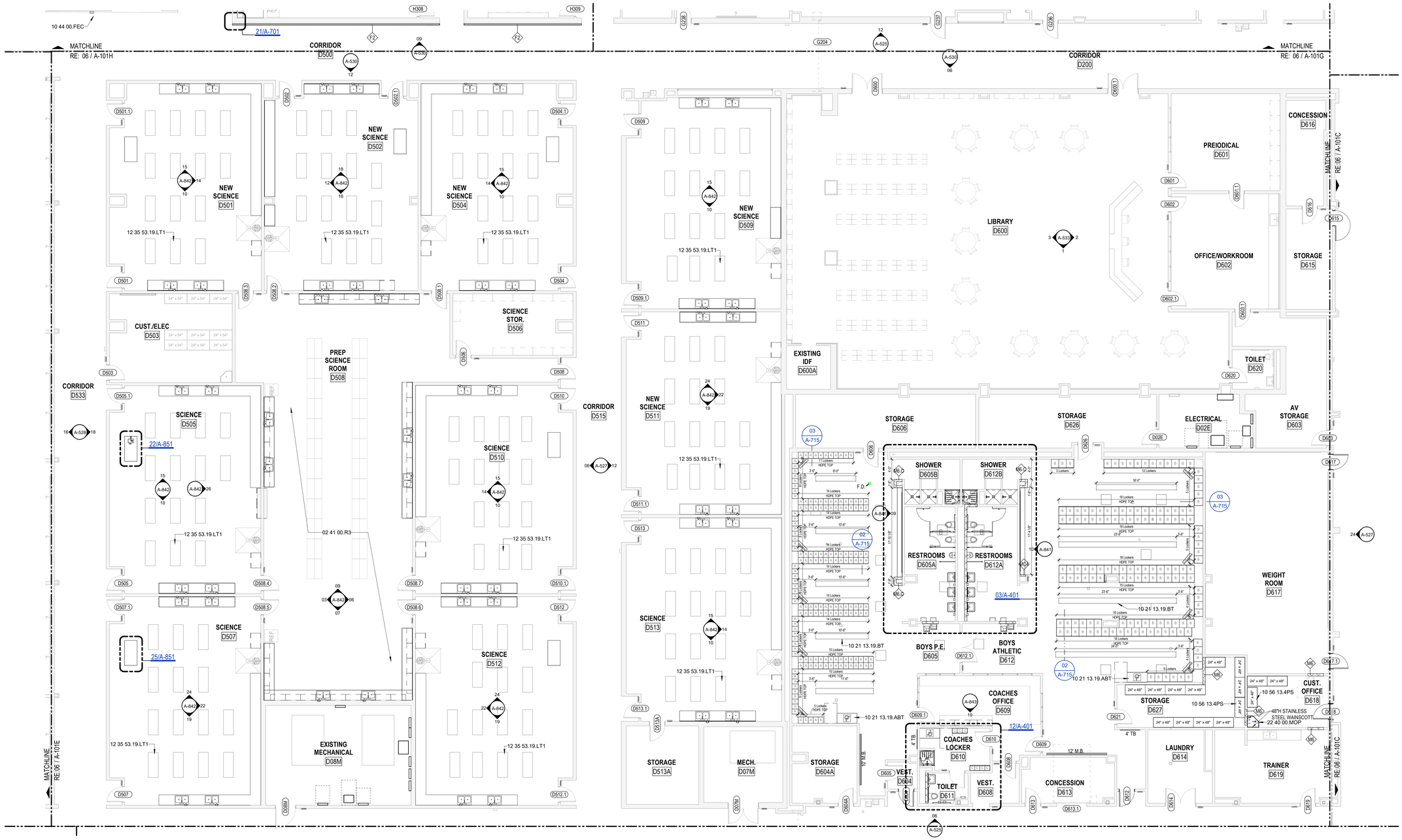
PROVIDE TRIMS AND CORNER FILLER PANELS AT ALL INSIDE/OUTSIDE LOCKER BANKS, TYP.

26 LOCKER TYPES LEGEND

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.R3	REINSTALL ALL EXISTING APPLIANCES.
10 21 13.19.ABT	ADA HDPE Bench Tops RE: 07/A-715
10 21 13.19.BT	HDPE BENCH TOP, Typ RE: 04/A-715
10 44 00.FEC	FIRE EXTINGUISHER CABINET
10 56 13.4PS	FOUR POST SHELVING
12 35 53.19.LT1	LABORATORY TABLE, TYPE 1
22 40 00.MOP	MOP SINK, REFER TO PLUMBING

25 KEYNOTES



06 1ST LEVEL - FLOOR PLAN - AREA D

1/8" = 1'-0"

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PBK

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STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343

MEPT
LEAP
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ACOUSTIC
ARPEGGIO
T 512-476-3664

FOOD SERVICE
RSI
T 281-256-2223

POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

J H G F K E D C B A

KEY PLAN NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT BRANDON D. MAY 27540 STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN - AREA D

A-101D

PBK
ARCHITECT PBK Architects, Inc.
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RSPA
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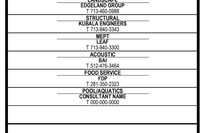
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

PROJECT NUMBER	DATE
220023	02/17/2025

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR SCHEDULES - AREA D

A-101D1

DOOR SCHEDULE REMARKS

1. PANIC EXIT HARDWARE
2. NOT AN ENTRY DOOR, EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
3. NO LOCKING HARDWARE
4. ELEC. DOOR OPENER
5. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
6. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
7. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
8. KEYED REMOVABLE CENTER MULLION
9. CENTER ASTRAGAL
10. 180 DEGREE SWING
11. CONT. HINGE
12. WEATHER-STRIP SEAL
13. FIRE SMOKE SEAL
14. SOUND SEAL
15. PEEP HOLE
16. DOOR BUZZER
17. DOOR CHIME ON OPEN
18. MANUAL HOLD-OPEN
19. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
20. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
21. INSULATED DOOR
22. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
23. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMLBY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
24. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
25. MANUAL PUSH-UP OPERATION
26. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
27. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
28. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
29. PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
30. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
31. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
32. FAIL SAFE IN OPEN POSITION
33. FAIL SAFE IN CLOSED POSITION
34. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
35. SIGNAGE ON DOOR TO READ "NOT AN EXIT"
36. EXISTING DOOR TO REMAIN. NEW HARDWARE ONLY
37. EXISTING DOOR AND HARDWARE TO REMAIN. NEW CARD READER ONLY.
38. NEW DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.
39. NEW DOOR AND HARDWARE. PATCH AND REPAIR EXISTING FRAME AS REQD.
40. PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING DOOR GLAZING TO BE PREPPED TO RECEIVE SECURITY FILM
41. PROVIDE AND INSTALL SECURITY FILM RE: SPECS.
42. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 10/A-811.
43. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 11/A-811.
44. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 12/A-811.
45. DOORS TO BE WRAPPED WITH DIGITALLY PRINTED VINYL GRAPHIC RE: SPEC 12.11.00

WINDOW SCHEDULE REMARKS

1. PROVIDE HORIZONTAL BLINDS
2. PROVIDE MANUAL SUNSHADE
3. PROVIDE MOTORIZED SUNSHADE
4. PROVIDE MOTORIZED SUNSHADE AND BLACKOUT SHADE
5. PROVIDE BLACKOUT SHADE

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL H.M. DOORS U.N.O.

PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

PAINT ACCENT COLOR (P7) ON TEACHING WALL WITHIN CLASSROOMS

LAY-IN CEILING TYPES
TYPE A: STANDARD MINERAL FIBER, ANTIMICROBIAL, 24"X24"
TYPE B: GLASS FIBER, HIGH NRC, ANTIMICROBIAL, 24"X24"
TYPE C: VINYL-FACED MINERAL FIBER, ANTIMICROBIAL, 24"X24"
TYPE D: IMPACT RESISTANT, MINERAL FIBER, ANTIMICROBIAL, 24"X24"
TYPE E: WOOD FIBER, 24"X24"
TYPE F: MINERAL FIBER, ANTIMICROBIAL, 24"X24"

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO CEILING PLANS
4. 48"H FRP WAINSCOT AT MOP SINK. EXTEND 24" EACH SIDE BEYOND SINK EDGES.
5. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
6. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND. PAINT
7. PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
8. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
9. PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
10. DO NOT PAINT ACOUSTICAL STRUCT. DECK
11. 1-HR FIRE RATED CEILING ASSEMBLY
12. 2-HR FIRE RATED CEILING ASSEMBLY
13. DOUBLE CEILING ASSEMBLY, REFER TO _____
14. HOLD-DOWN CLIPS AT SUSP. LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION

EXISTING DOOR SCHEDULE - AREA D

DOOR			PANEL					FRAME						GENERAL			
											DETAIL						
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
D02E	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D07M	6'-0"	6'-10"	F / F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D08M	4'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D501	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D501.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D502	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D502.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D503	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
D504	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D504.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D505	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D505.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D506	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D507	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D507.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D508	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D508.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D508.2	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D508.3	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D508.4	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D508.5	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D508.6	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D508.7	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D509	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D509.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D510	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D510.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D511	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D511.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D512	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D512.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D513	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D513.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D513A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D600	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D600.1	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D601	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D601.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D602	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D602.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D603	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D603.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D604A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D605	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
D606	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D608	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D609	3'-0"	6'-10"	HG-2	1 3/4"	EXIST	EXIST	EXIST		EXIST	PT							36
D609.1	3'-0"	6'-10"	HG-2	1 3/4"	EXIST	EXIST	EXIST		EXIST	PT							36
D610	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D611	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D612.1	6'-0"	6'-10"	F / F	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
D613	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D613.1	6'-0"	9'-0"	OHC- PS	1 3/4"	AL-	AL-	NONE	00HS	EXIST	EXIST							NO SCOPE
D614	6'-0"	6'-10"	F / F	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
D616	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	21/A-812	01/A-812	27/A-812				36
D619	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D620	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
D621	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
D626	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36

WINDOW SCHEDULE - AREA D

	SIZE					DETAILS						
MARK	WIDTH	HEIGHT	SILL HEIGHT	MATERIAL	FINISH	SURROUND TYPE	FIRE RATING	STC	GLAZING TYPE	SILL	JAMB	HEAD	REMARKS

ROOM FINISH SCHEDULE - AREA D

ROOM DATA		FLOOR FINISH	BASE FINISH	WALL FINISHES				CEILINGS	
№	NAME			NORTH	EAST	SOUTH	WEST	FINISH	COMMENTS
D02E	ELECTRICAL			P1	P1	P1	P1		
D07M	MECH.			P1	P1	P1	P1		
D08M	EXISTING MECHANICAL			P1	P1	P1	P1		
D200	CORRIDOR	T3/T4/T5/T6	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
D500	CORRIDOR	T3/T4/T5/T6	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
D501	NEW SCIENCE	RFT1/RF T2/RFT3	RB1	P1	P7	P1	P1		
D502	NEW SCIENCE	RFT1/RF T2/RFT3	RB1	P1	P7	P1	P1		
D503	CUST./ELEC	RFT1	RB1	P1	P1	P1	P1		
D504	NEW SCIENCE	RFT1/RF T2/RFT3	RB1	P1	P7	P1	P1		
D505	SCIENCE	RFT1/RF T2/RFT3	RB1	P1	P1	P1	P7		
D506	SCIENCE STOR.	RFT1	RB1	P1	P1	P1	P1		
D507	SCIENCE	RFT1/RF T2/RFT3	RB1	P1	P1	P1	P7		
D508	PREP SCIENCE ROOM	RFT1/RF T2/RFT3	RB1	P1	P1	P1	P1		
D509	NEW SCIENCE	RFT1/RF T2/RFT3	RB1	P1	P1	P1	P7		
D510	SCIENCE	RFT1/RF T2/RFT3	RB1	P1	P7	P1	P1		
D511	NEW SCIENCE	RFT1/RF T2/RFT3	RB1	P1	P7	P1	P1		
D512	SCIENCE	RFT1/RF T2/RFT3	RB1	P1	P7	P1	P1		
D513	SCIENCE	RFT1/RF T2/RFT3	RB1	P1	P1	P1	P7		
D513A	STORAGE	RFT1	RB1	P1	P1	P1	P1		
D515	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
D533	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
D600	LIBRARY			P1/P2	P1/P2	P1/P2	P1/P2		
D600A	EXISTING IDF			P1	P1	P1	P1		
D601	PREIODICAL			P1	P1	P1	P1		
D602	OFFICE/WORKROOM			P1	P1	P1	P1		
D603	AV STORAGE			P1	P1	P1	P1		
D604	VEST.	FF1	FF1	P2/P5/P3	P2/P5/P3	P2/P5/P3	P2/P5/P3		
D604A	STORAGE			P1	P1	P1	P1		
D605	BOYS P.E.	FF1	FF1	P2/P5/P3	P2/P5/P3	P2/P5/P3	P2/P5/P3		
D605A	RESTROOMS	T5	T12	T7/T8/T9	T7/T8/T9	T7/T8/T9	T7/T8/T9		
D605B	SHOWER	T10	T12	T7/T8/T9	T7/T8/T9	T7/T8/T9	T7/T8/T9		
D606	STORAGE			P1	P1	P1	P1		
D608	VEST.	FF1	FF1	P1	P1	P1	P1		
D609	COACHES OFFICE	RFT1/RF T2/RFT3	RB1	P1	P1	P1	P1		
D610	COACHES LOCKER	FF1	FF1	P1	P1	P1	SEE ELEV.		
D611	TOILET	T5	T12	P1	P1	P1	T7/T8/T9		
D612	BOYS ATHLETIC	FF1	FF1	P2/P5/P3	P2/P5/P3	P2/P5/P3	P2/P5/P3		
D612A	RESTROOMS	T5	T12	T7/T8/T9	T7/T8/T9	T7/T8/T9	T7/T8/T9		
D612B	SHOWER	T10	T12	T7/T8/T9	T7/T8/T9	T7/T8/T9	T7/T8/T9		
D613	CONCESSION			P1	P1	P1	P1		
D614	LAUNDRY			P1	P1	P1	P1		
D615	STORAGE			P1	P1	P1	P1		
D616	CONCESSION			P1	P1	P1	P1		
D617	WEIGHT ROOM			P2	P1	P2	P1		
D618	CUST. OFFICE	SC1	RB1	P1	P1	P1	P1		
D619	TRAINER			P1	P1	P1	P1		
D620	TOILET								
D626	STORAGE			P1	P1	P1	P1		
D627	STORAGE	SC1	RB1	P1	P1	P1	P1		
Grand total									

NEW DOOR SCHEDULE - AREA D

DOOR			PANEL					FRAME						GENERAL			
											DETAIL						
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	GLASS TYPE	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
D604	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				38
D612	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				38
D615	3'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	21/A-812	01/A-812	27/A-812				
D617	3'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	09/A-812	03/A-812	15/A-812				
D617.1	3'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	09/A-812	03/A-812	15/A-812				
D618	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	09/A-812	03/A-812	15/A-812				

STOREFRONT & CURTAIN WALL SCHEDULE - AREA D

	FRAME SIZE W x H			FRAME		DETAILS			
MARK	WIDTH	HEIGHT	ELEVATION	FRAME MATERIAL	FRAME DEPTH	HEAD	JAMB	SILL	REMARKS

0" 1"

1ST FLOOR SCHEDULES - AREA D A-101D1

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

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A-101D1

0"
1"

1ST FLOOR PLAN - AREA E
A-101E
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M8 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M6.C U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOOR FRAMES SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

30 GENERAL ARCH PLAN NOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION

AT ALL NEW CASEWORK PROVIDE NEW 4" RUBBER BASE

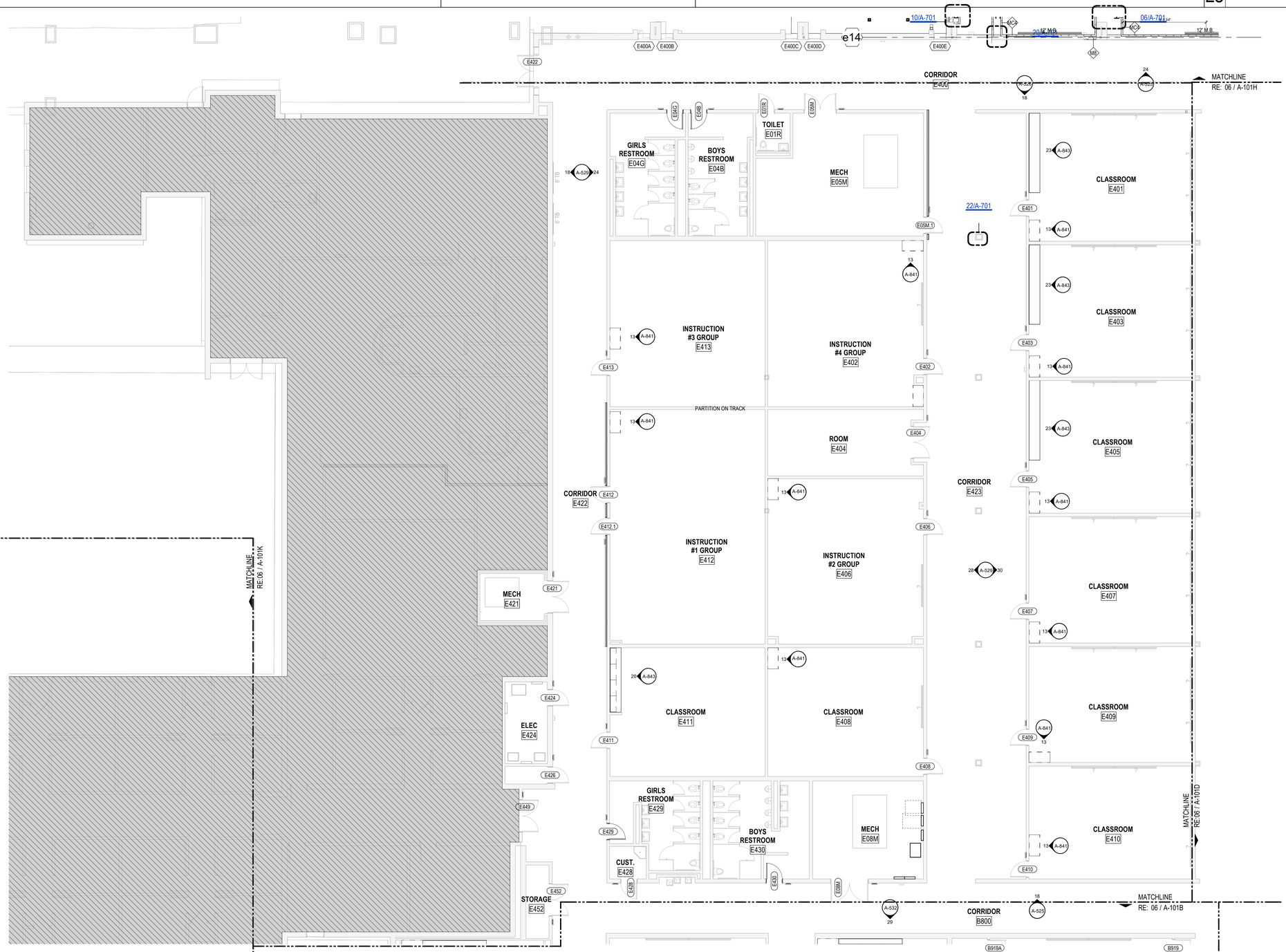
ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE PAINTED.

ALL ROOMS TO RECEIVE NEW ROOM SIGNAGE AND WAY FINDING AT SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL.

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING TILE TO RECEIVE PAINT THROUGHOUT CAMPUS G.C. SHALL REINSTALL ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATE W/ CAMPUS PRIOR TO REINSTALLATION. RE: MEPT FOR ADDITIONAL SCOPE.

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

25 KEYNOTES



06 1ST LEVEL - FLOOR PLAN - AREA E

1/8" = 1'-0"

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SPECTRUM
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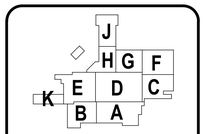
FOOD SERVICE
RSI
T 281-256-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School

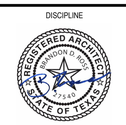
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE



01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN - AREA E

A-101E

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CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
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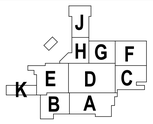
CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

PROJECT NUMBER	DATE
220023	02/17/2025

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR SCHEDULES - AREA E

A-101E1

DOOR SCHEDULE REMARKS

1. PANIC EXIT HARDWARE
2. NOT AN ENTRY DOOR, EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
3. NO LOCKING HARDWARE
4. ELEC. DOOR OPENER
5. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
6. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
7. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
8. KEYED REMOVABLE CENTER MULLION
9. CENTER ASTRAGAL
10. 180 DEGREE SWING
11. CONT. HINGE
12. WEATHER-STRIP SEAL
13. FIRE SMOKE SEAL
14. SOUND SEAL
15. PEEP HOLE
16. DOOR BUZZER
17. DOOR CHIME ON OPEN
18. MANUAL HOLD-OPEN
19. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
20. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
21. INSULATED DOOR
22. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
23. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMLBY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
24. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
25. MANUAL PUSH-UP OPERATION
26. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
27. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
28. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
29. PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
30. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
31. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
32. FAIL SAFE IN OPEN POSITION
33. FAIL SAFE IN CLOSED POSITION
34. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
35. SIGNAGE ON DOOR TO READ "NOT AN EXIT"
36. EXISTING DOOR TO REMAIN. NEW HARDWARE ONLY
37. EXISTING DOOR AND HARDWARE TO REMAIN. NEW CARD READER ONLY.
38. NEW DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.
39. NEW DOOR AND HARDWARE. PATCH AND REPAIR EXISTING FRAME AS REQD.
40. PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING DOOR GLAZING TO BE PREPPED TO RECEIVE SECURITY FILM
41. PROVIDE AND INSTALL SECURITY FILM RE: SPECS.
42. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 10/A-811.
43. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 11/A-811.
44. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 12/A-811.
45. DOORS TO BE WRAPPED WITH DIGITALLY PRINTED VINYL GRAPHIC RE: SPEC 12.11.00

EXISTING DOOR SCHEDULE - AREA E

DOOR			PANEL					FRAME								GENERAL			
			TYPE:				GLASS					DETAIL					HARDWARE	
MARK	WIDTH	HEIGHT	A / B	THK	MATL	FINISH	TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	SET	REMARKS
E01R	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E05M	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E05M.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E08M	7'-0"	6'-10"	F / F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E401	3'-0"	7'-8"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E402	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E403	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E404	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				NEW MULLION ONLY
E405	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E406	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E407	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E408	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E409	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E410	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E411	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E412	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E412.1	3'-0"	8'-6"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E413	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E421	6'-0"	6'-10"	F / F	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
E422	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	HM	EXIST	NONE	021	EXIST	PT	07/A-812	01/A-812	13/A-812				40
E424	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E426	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
E428	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
E449	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
E452	6'-0"	6'-10"	F / F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36

NEW DOOR SCHEDULE - AREA E

DOOR			PANEL					FRAME								GENERAL			
			TYPE:				GLASS					DETAIL					HARDWARE	
MARK	WIDTH	HEIGHT	A / B	THK	MATL	FINISH	TYPE	TYPE	MATL	FINISH	TYPE	JAMB	SILL	HEAD	FIRE RATING	STC	SET	REMARKS
E04B	3'-0"	6'-10"	NV-1	1 3/4"	-	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				39
E04G	3'-0"	6'-10"	NV-1	1 3/4"	-	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				39
E429	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				38
E430	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812				38

WINDOW SCHEDULE REMARKS

1. PROVIDE HORIZONTAL BLINDS
2. PROVIDE MANUAL SUNSHADE
3. PROVIDE MOTORIZED SUNSHADE
4. PROVIDE MOTORIZED SUNSHADE AND BLACKOUT SHADE
5. PROVIDE BLACKOUT SHADE

WINDOW SCHEDULE - AREA E

	SIZE			
MARK	WIDTH	HEIGHT	ELEVATION	REMARKS
E400A	2'-4"	8'-6"	W-05	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
E400B	2'-4"	8'-6"	W-05	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
E400C	2'-4"	8'-6"	W-05	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
E400D	2'-4"	8'-6"	W-05	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
E400E	2'-4"	8'-6"	W-05	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM

STOREFRONT & CURTAIN WALL SCHEDULE - AREA E

	FRAME SIZE W x H			FRAME		DETAILS			
MARK	WIDTH	HEIGHT	ELEVATION	FRAME MATERIAL	FRAME DEPTH	HEAD	JAMB	SILL	REMARKS

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL H.M. DOORS U.N.O.

PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

PAINT ACCENT COLOR (P7) ON TEACHING WALL WITHIN CLASSROOMS

LAY-IN CEILING TYPES
- TYPE A: STANDARD MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE B: GLASS FIBER, HIGH NRC, ANTIMICROBIAL, 24"X24"
- TYPE C: VINYL-FACED MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE D: IMPACT RESISTANT, MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE E: WOOD FIBER, 24"X24"
- TYPE F: MINERAL FIBER, ANTIMICROBIAL, 24"X24"

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO CEILING PLANS
4. 48"H FRP WAINSCOT AT MOP SINK. EXTEND 24" EACH SIDE BEYOND SINK EDGES.
5. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
6. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND. PAINT
7. PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
8. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
9. PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
10. DO NOT PAINT ACOUSTICAL STRUCT. DECK
11. 1-HR FIRE RATED CEILING ASSEMBLY
12. 2-HR FIRE RATED CEILING ASSEMBLY
13. DOUBLE CEILING ASSEMBLY, REFER TO _____
14. HOLD-DOWN CLIPS AT SUSP. LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION

ROOM FINISH SCHEDULE - AREA E

ROOM DATA		FLOOR	BASE	WALL FINISHES				CEILING S	
№	NAME	FINISH	FINISH	NORTH	EAST	SOUTH	WEST	FINISH	COMMENTS
E01R	TOILET								
E04B	BOYS RESTROOM								
E04G	GIRLS RESTROOM								
E05M	MECH			P1	P1	P1	P1		
E08M	MECH			P1	P1	P1	P1		
E400	CORRIDOR	T3/T4/CP2	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
E401	CLASSROOM			P1	P7	P1	P1		
E402	INSTRUCTION #4 GROUP			P1	P7	P1	P1		
E403	CLASSROOM			P1	P7	P1	P1		
E404	ROOM			P1	P1	P1	P1		
E405	CLASSROOM			P1	P7	P1	P1		
E406	INSTRUCTION #2 GROUP			P1	P7	P1	P1		
E407	CLASSROOM			P7	P1	P1	P7		
E408	CLASSROOM			P1	P7	P1	P1		
E409	CLASSROOM			P7	P1	P1	P1		
E410	CLASSROOM			P7	P1	P1	P1		
E411	CLASSROOM			P1	P7	P1	P1		
E412	INSTRUCTION #1 GROUP			P1	P7	P1	P1		
E413	INSTRUCTION #3 GROUP			P1	P7	P1	P1		
E417	RR								
E418	RR								
E419	BOYS RR								
E420	GIRLS RR								
E421	MECH			P1	P1	P1	P1		
E422	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
E423	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
E424	ELEC			P1	P1	P1	P1		
E428	CUST.			P1	P1	P1	P1		
E429	GIRLS RESTROOM								
E430	BOYS RESTROOM								
E435	RR								
E436	HALLWAY								
E437	MECH								
E438	ROOM								
E439	MECH								
E440	CULINARY ARTS KITCHEN								
E440A	STORAGE								
E441	STORAGE								
E442	CAFETERIA								
E444	ROOM								
E445A	IDF								
E446	ROOM								
E447	CORRIDOR								
E449	CORRIDOR								
E452	STORAGE								
E457	STORAGE								
E458	STORAGE								
E459	OFFICE								
E460	OFFICE								
E461	OFFICE								
E462	OFFICE								
E463	CONFERENCE								
E464	CONFERENCE								
Grand total									

0" 1"

1ST FLOOR SCHEDULES - AREA E A-101E1

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

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Joseph Garavito
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0"
1"

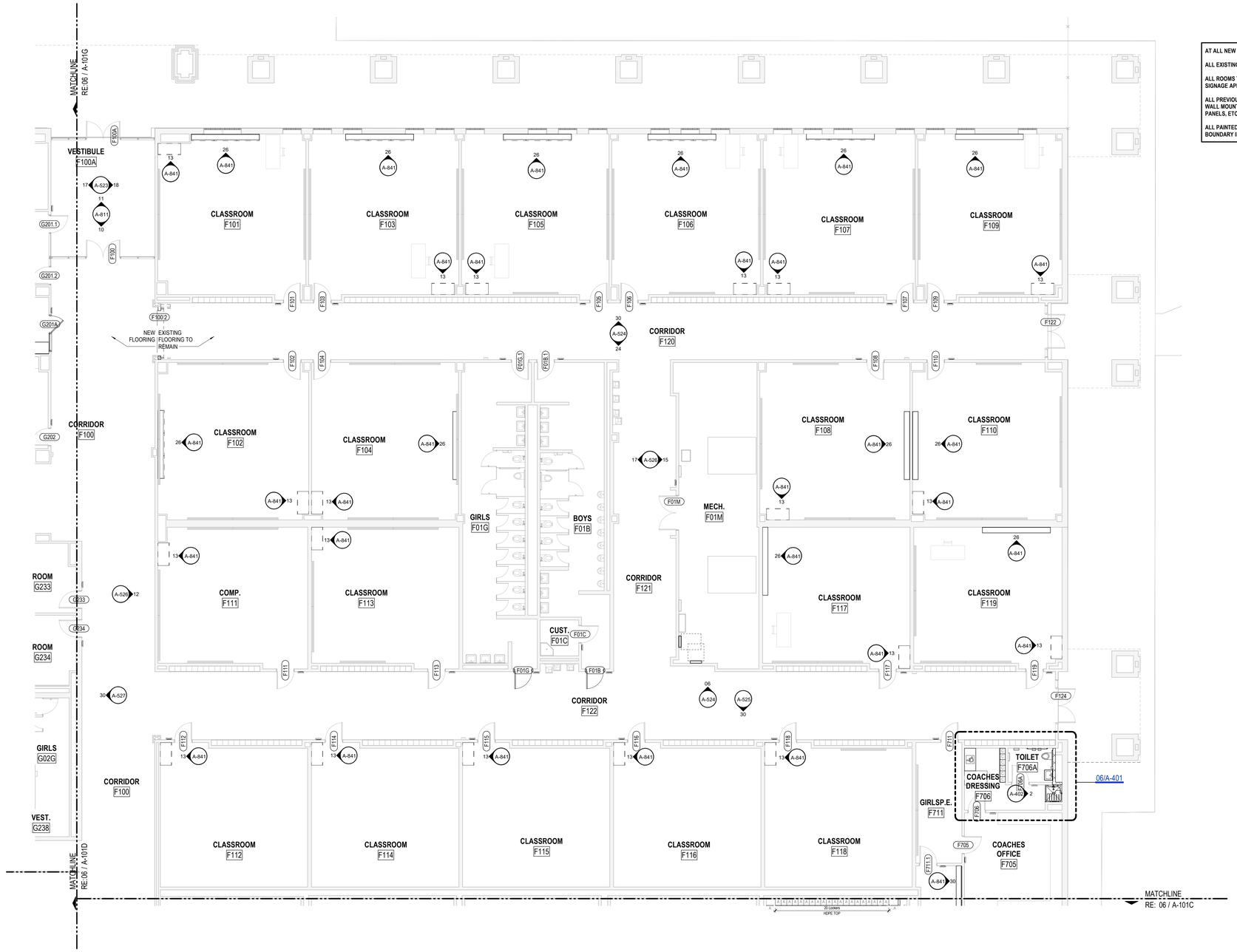
1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M9 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M6.C U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOOR FRAMES SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

30 GENERAL ARCH PLAN NOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION

25 KEYNOTES



06 1ST LEVEL - FLOOR PLAN - AREA F

1/8" = 1'-0"

AT ALL NEW CASEWORK PROVIDE NEW 4" RUBBER BASE

ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE PAINTED.

ALL ROOMS TO RECEIVE NEW ROOM SIGNAGE AND WAY FINDING AT SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL.

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING TILE TO RECEIVE PAINT THROUGHOUT CAMPUS G.C. SHALL REINSTALL ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATE W/ CAMPUS PRIOR TO REINSTALLATION. RE: MEPT FOR ADDITIONAL SCOPE.

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

PBK

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ACOUSTIC
SPECTRA
T 512-476-3664
FOOD SERVICE
RSC
T 281-556-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
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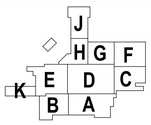
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST FLOOR PLAN - AREA F

A-101F

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T 000-000-0000

Arnold Middle School

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CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

PROJECT NUMBER	DATE
220023	02/17/2025

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST FLOOR SCHEDULES - AREA F

A-101F1

DOOR SCHEDULE REMARKS

1. PANIC EXIT HARDWARE
2. NOT AN ENTRY DOOR, EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
3. NO LOCKING HARDWARE
4. ELEC. DOOR OPENER
5. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
6. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
7. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
8. KEYED REMOVABLE CENTER MULLION
9. CENTER ASTRAGAL
10. 180 DEGREE SWING
11. CONT. HINGE
12. WEATHER-STRIP SEAL
13. FIRE SMOKE SEAL
14. SOUND SEAL
15. PEEP HOLE
16. DOOR BUZZER
17. DOOR CHIME ON OPEN
18. MANUAL HOLD-OPEN
19. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
20. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
21. INSULATED DOOR
22. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
23. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMLBY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
24. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
25. MANUAL PUSH-UP OPERATION
26. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
27. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
28. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
29. PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
30. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
31. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
32. FAIL SAFE IN OPEN POSITION
33. FAIL SAFE IN CLOSED POSITION
34. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
35. SIGNAGE ON DOOR TO READ "NOT AN EXIT"
36. EXISTING DOOR TO REMAIN. NEW HARDWARE ONLY
37. EXISTING DOOR AND HARDWARE TO REMAIN. NEW CARD READER ONLY.
38. NEW DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.
39. NEW DOOR AND HARDWARE. PATCH AND REPAIR EXISTING FRAME AS REQD.
40. PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING DOOR GLAZING TO BE PREPPED TO RECEIVE SECURITY FILM
41. PROVIDE AND INSTALL SECURITY FILM RE: SPECS.
42. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 10/A-811.
43. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 11/A-811.
44. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 12/A-811.
45. DOORS TO BE WRAPPED WITH DIGITALLY PRINTED VINYL GRAPHIC RE: SPEC 12.11.00

EXISTING DOOR SCHEDULE - AREA F

DOOR			PANEL					FRAME			DETAIL			GENERAL			
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
F01B.1	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F01C	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F01G.1	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F01M	6'-0"	6'-10"	F / F	1 3/4"	EXIST	EXIST	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F100	6'-0"	6'-10"	HG-2 / HG-2	1 3/4"	EXIST	EXIST	SG3	CW-1	EXIST	PT							42
F100A	6'-0"	6'-10"	HG-2 / HG-2	1 3/4"	EXIST	EXIST	SG1	CW-2	EXIST	PT							37,43
F101	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F102	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F103	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F104	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F105	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F106	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F107	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F108	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F109	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F110	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F111	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F112	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F113	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F114	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F115	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F116	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F117	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F118	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F119	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F122	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	HM	EXIST	NONE	021	EXIST	PT							40
F124	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	HM	EXIST	NONE	021	EXIST	PT							40
F705	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F706	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F706A	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F711	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
F711.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE

NEW DOOR SCHEDULE - AREA F

DOOR			PANEL					FRAME			DETAIL			GENERAL			
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
F01B	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	NONE	001	EXIST	EXIST	09/A-812	03/A-812	15/A-812				39
F01G	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	NONE	001	EXIST	EXIST	09/A-812	03/A-812	15/A-812				39
F100.2	8'-0"	7'-0"						<By Category>		<By Category>							26, OH DOOR

WINDOW SCHEDULE REMARKS

1. PROVIDE HORIZONTAL BLINDS
2. PROVIDE MANUAL SUNSHADE
3. PROVIDE MOTORIZED SUNSHADE
4. PROVIDE MOTORIZED SUNSHADE AND BLACKOUT SHADE
5. PROVIDE BLACKOUT SHADE

WINDOW SCHEDULE - AREA E

	SIZE								DETAILS			
MARK	WIDTH	HEIGHT	SILL HEIGHT	MATERIAL	FINISH	SURROUND TYPE	FIRE RATING	STC	GLAZING TYPE	SILL	JAMB	HEAD	REMARKS

STOREFRONT & CURTAIN WALL SCHEDULE - AREA F

	FRAME SIZE W x H			FRAME		DETAILS			
MARK	WIDTH	HEIGHT	ELEVATION	FRAME MATERIAL	FRAME DEPTH	HEAD	JAMB	SILL	REMARKS

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL H.M. DOORS U.N.O.

PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

PAINT ACCENT COLOR (P7) ON TEACHING WALL WITHIN CLASSROOMS

LAY-IN CEILING TYPES
- TYPE A: STANDARD MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE B: GLASS FIBER, HIGH NRC, ANTIMICROBIAL, 24"X24"
- TYPE C: VINYL-FACED MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE D: IMPACT RESISTANT, MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE E: WOOD FIBER, 24"X24"
- TYPE F: MINERAL FIBER, ANTIMICROBIAL, 24"X24"

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO CEILING PLANS
4. 48"H FRP WAINSCOT AT MOP SINK. EXTEND 24" EACH SIDE BEYOND SINK EDGES.
5. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
6. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND. PAINT
7. PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
8. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
9. PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
10. DO NOT PAINT ACOUSTICAL STRUCT. DECK
11. 1-HR FIRE RATED CEILING ASSEMBLY
12. 2-HR FIRE RATED CEILING ASSEMBLY
13. DOUBLE CEILING ASSEMBLY, REFER TO _____
14. HOLD-DOWN CLIPS AT SUSP. LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION

ROOM FINISH SCHEDULE - AREA F

ROOM DATA		FLOOR	BASE	WALL FINISHES				CEILING	
№	NAME	FINISH	FINISH	NORTH	EAST	SOUTH	WEST	FINISH	COMMENTS
F01B	BOYS								
F01C	CUST.								
F01G	GIRLS								
F01M	MECH.			P1	P1	P1	P1		
F100	CORRIDOR	T3/T4/T5 /T6	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
F100A	VESTIBULE	CP2	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
F101	CLASSROOM			P1	P7	P1	P1		
F102	CLASSROOM			P1	P1	P7	P1		
F103	CLASSROOM			P1	P1	P1	P7		
F104	CLASSROOM			P1	P1	P7	P1		
F105	CLASSROOM			P1	P1	P1	P7		
F106	CLASSROOM			P1	P7	P1	P1		
F107	CLASSROOM			P1	P7	P1	P1		
F108	CLASSROOM			P1	P7	P1	P1		
F109	CLASSROOM			P1	P7	P1	P1		
F110	CLASSROOM			P1	P7	P1	P1		
F111	COMP.			P7	P1	P1	P1		
F112	CLASSROOM			P1	P7	P1	P1		
F113	CLASSROOM			P7	P1	P1	P1		
F114	CLASSROOM			P1	P7	P1	P1		
F115	CLASSROOM			P1	P7	P1	P1		
F116	CLASSROOM			P1	P7	P1	P1		
F117	CLASSROOM			P1	P1	P7	P1		
F118	CLASSROOM			P7	P1	P1	P1		
F119	CLASSROOM			P1	P7	P1	P1		
F120	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
F121	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
F122	CORRIDOR		T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
F705	COACHES OFFICE			P1	P1	P1	P1		
F706	COACHES DRESSING	FF1	FF1	P1	SEE ELEV	P1	P1		
F706A	TOILET	T5	T12	P1	T7/T8/T9	P1	P1		
F711	GIRLS.P.E.	FF1	FF1	P5/P2/P3	P5/P2/P3	P5/P2/P3	P5/P2/P3		
Grand total									

0" 1"

1ST FLOOR SCHEDULES - AREA F A-101F1

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

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Plot Date/Time:
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CHECKED BY:
William White

DRAWN BY:
Joseph Garavito

Plot Stamp:

PROPOSAL
ISSUE FOR P

1ST FLOOR PLAN - AREA G
A-101G
FOR BLUEBEAM LABELING/OCR:

0"
1"

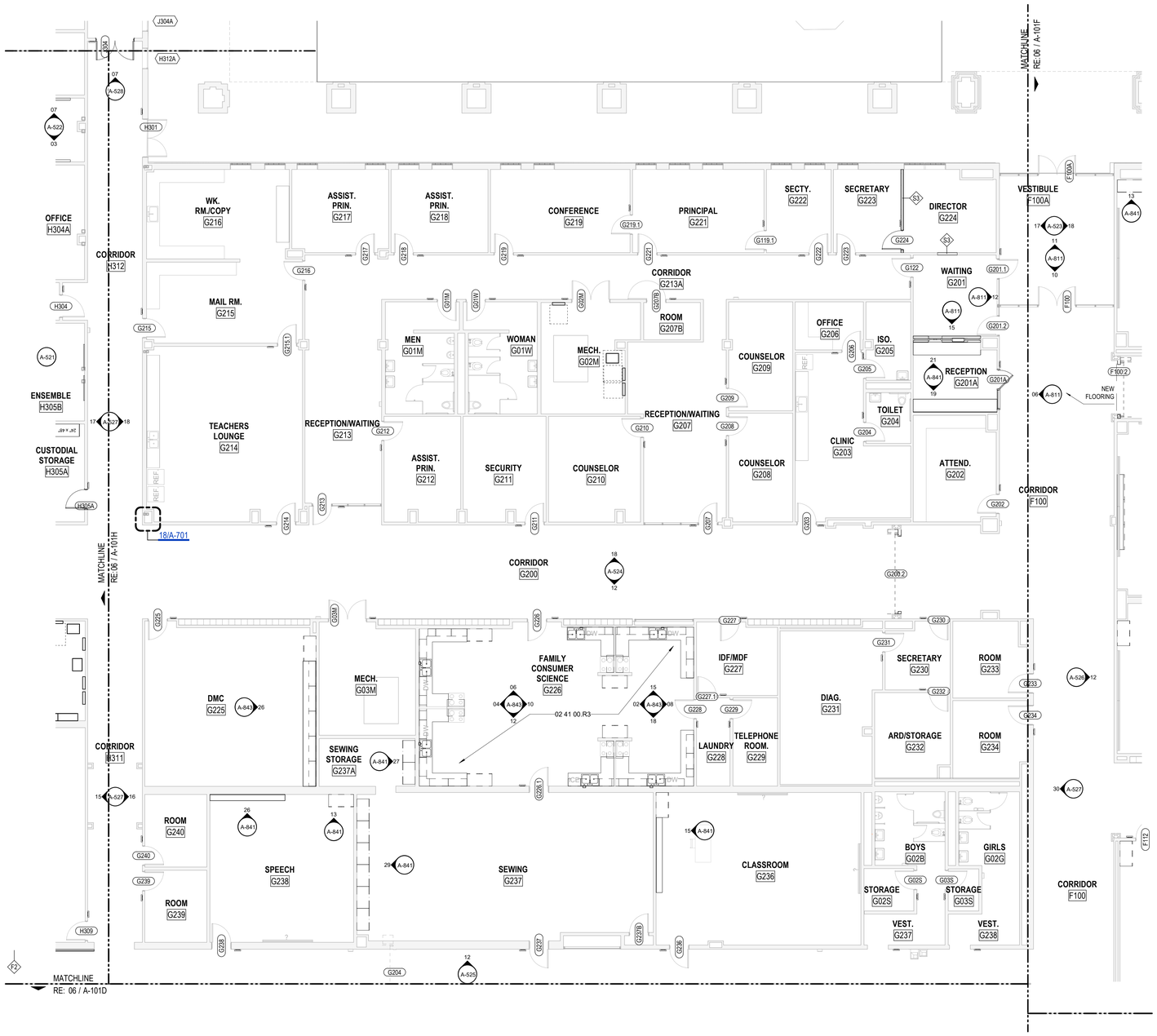
30 GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M9 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M6.C U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOOR FRAMES SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.R3	REINSTALL ALL EXISTING APPLIANCES.

25 KEYNOTES



AT ALL NEW CASEWORK PROVIDE NEW 4" RUBBER BASE

ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE PAINTED.

ALL ROOMS TO RECEIVE NEW ROOM SIGNAGE AND WAY FINDING AT SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL.

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING TILE TO RECEIVE PAINT THROUGHOUT CAMPUS G.C. SHALL REINSTALL ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATE W/ CAMPUS PRIOR TO REINSTALLATION. RE: MEPT FOR ADDITIONAL SCOPE.

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

06 1ST LEVEL - FLOOR PLAN - AREA G

1/8" = 1'-0"

PBK
ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
BROOKS & SPARKS
T 281-478-5998
LANDSCAPE
EDDELAND GROUP
T 713-862-1000
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEPT
LEAP
T 713-540-3300
ACOUSTIC
SHEN
T 512-476-3664
FOOD SERVICE
RSI
T 281-256-2221
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT BRANDON D. ROE 27140 STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR PLAN - AREA G

A-101G

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DOOR SCHEDULE REMARKS

1. PANIC EXIT HARDWARE
2. NOT AN ENTRY DOOR, EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
3. NO LOCKING HARDWARE
4. ELEC. DOOR OPENER
5. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
6. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
7. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
8. KEYED REMOVABLE CENTER MULLION
9. CENTER ASTRAGAL
10. 180 DEGREE SWING
11. CONT. HINGE
12. WEATHER-STRIP SEAL
13. FIRE SMOKE SEAL
14. SOUND SEAL
15. PEEP HOLE
16. DOOR BUZZER
17. DOOR CHIME ON OPEN
18. MANUAL HOLD-OPEN
19. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
20. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
21. INSULATED DOOR
22. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
23. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
24. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
25. MANUAL PUSH-UP OPERATION
26. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
27. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
28. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
29. PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
30. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
31. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
32. FAIL SAFE IN OPEN POSITION
33. FAIL SAFE IN CLOSED POSITION
34. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
35. SIGNAGE ON DOOR TO READ "NOT AN EXIT"
36. EXISTING DOOR TO REMAIN. NEW HARDWARE ONLY
37. EXISTING DOOR AND HARDWARE TO REMAIN. NEW CARD READER ONLY.
38. NEW DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.
39. NEW DOOR AND HARDWARE. PATCH AND REPAIR EXISTING FRAME AS REQD.
40. PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING DOOR GLAZING TO BE PREPPED TO RECEIVE SECURITY FILM
41. PROVIDE AND INSTALL SECURITY FILM RE: SPECS.
42. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 10/A-811.
43. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 11/A-811.
44. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 12/A-811.
45. DOORS TO BE WRAPPED WITH DIGITALLY PRINTED VINYL GRAPHIC RE: SPEC 12.11.00

EXISTING DOOR SCHEDULE - AREA G

DOOR			PANEL					FRAME				DETAIL			GENERAL			
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
G01M	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
G01W	3'-0"	6'-10"	F	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
G02M	6'-0"	6'-10"	F / F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G02S	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
G03M	6'-0"	6'-10"	F / F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				
G03S	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
G115.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G122	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G201.1	3'-0 1/2"	6'-10"	HG-2	1 3/4"	EXIST	EXIST	SG3	CW-3	EXIST	PT	10/A-812	04/A-812	16/A-812				44
G201.2	3'-0 1/2"	6'-10 1/8"	HG-2	1 3/4"	EXIST	EXIST	SG3	CW-3	EXIST	PT	10/A-812	04/A-812	16/A-812				36, 44
G202	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G203	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G204	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				26, OH DOOR
G205	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G206	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				26, OH DOOR
G207	3'-0"	6'-10"	HG-2	1 3/4"	EXIST	EXIST	EXIST		EXIST	PT	10/A-812	04/A-812	16/A-812				36
G207B	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G208	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G209	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G210	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G211	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G212	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G213	3'-0"	6'-10 3/8"	HG-2	1 3/4"	EXIST	EXIST	EXIST		EXIST	PT	10/A-812	04/A-812	16/A-812				36
G214	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G215	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G215.1	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G216	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G217	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G218	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G219	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G219.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G221	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G222	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G223	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G225	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G226	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G226.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G227	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G227.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				
G228	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G229	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G230	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G231	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G232	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G233	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G234	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G236	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G237	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G237B	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G238	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G239	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
G240	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36

NEW DOOR SCHEDULE - AREA G

DOOR			PANEL					FRAME				DETAIL			GENERAL			
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
G200.2	12'-0"	7'-0"							<By Category>	<By Category>							26 OH DOOR
G201A	3'-0"	7'-0"							HM	PT	NONE	21/A-812	01/A-812	27/A-812			
G224	3'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	21/A-812	01/A-812	27/A-812			

WINDOW SCHEDULE REMARKS

1. PROVIDE HORIZONTAL BLINDS
2. PROVIDE MANUAL SUNSHADE
3. PROVIDE MOTORIZED SUNSHADE
4. PROVIDE MOTORIZED SUNSHADE AND BLACKOUT SHADE
5. PROVIDE BLACKOUT SHADE

WINDOW SCHEDULE - AREA G

	SIZE								DETAILS			
MARK	WIDTH	HEIGHT	SILL HEIGHT	MATERIAL	FINISH	SURROUND TYPE	FIRE RATING	STC	GLAZING TYPE	SILL	JAMB	HEAD	REMARKS

STOREFRONT & CURTAIN WALL SCHEDULE - AREA G

	FRAME SIZE W x H			FRAME		DETAILS			
MARK	WIDTH	HEIGHT	ELEVATION	FRAME MATERIAL	FRAME DEPTH	HEAD	JAMB	SILL	REMARKS

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL H.M. DOORS U.N.O.

PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

PAINT ACCENT COLOR (P7) ON TEACHING WALL WITHIN CLASSROOMS

LAY-IN CEILING TYPES
- TYPE A: STANDARD MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE B: GLASS FIBER, HIGH NRC, ANTIMICROBIAL, 24"X24"
- TYPE C: VINYL-FACED MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE D: IMPACT RESISTANT, MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE E: WOOD FIBER, 24"X24"
- TYPE F: MINERAL FIBER, ANTIMICROBIAL, 24"X24"

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO CEILING PLANS
4. 48"H FRP WAINSCOT AT MOP SINK. EXTEND 24" EACH SIDE BEYOND SINK EDGES.
5. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
6. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND. PAINT
7. PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
8. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
9. PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
10. DO NOT PAINT ACOUSTICAL STRUCT. DECK
11. 1-HR FIRE RATED CEILING ASSEMBLY
12. 2-HR FIRE RATED CEILING ASSEMBLY
13. DOUBLE CEILING ASSEMBLY, REFER TO _____
14. HOLD-DOWN CLIPS AT SUSP. LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION

ROOM FINISH SCHEDULE - AREA G

ROOM DATA		FLOOR	BASE	WALL FINISHES				CEILINGS	
№	NAME	FINISH	FINISH	NORTH	EAST	SOUTH	WEST	FINISH	COMMENTS
G01M	MEN								
G01W	WOMAN								
G02B	BOYS								
G02G	GIRLS								
G02M	MECH.			P1	P1	P1	P1		
G02S	STORAGE			P1	P1	P1	P1		
G03M	MECH.			P1	P1	P1	P1		
G03S	STORAGE			P1	P1	P1	P1		
G200	CORRIDOR	T3/T4/T5 /T6	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
G201	WAITING	CP1	RB1	P1	P1	P1	P1		
G201A	RECEPTION	CP1	RB1	P1	P1	P1	P1		
G202	ATTEND.			P1	P1	P1	P1		
G203	CLINIC			P1	P1	P1	P1		
G204	TOILET								
G205	ISO.			P1	P1	P1	P1		
G206	OFFICE			P1	P1	P1	P1		
G207	RECEPTION/WAITING			P1	P1	P1	P1		
G207B	ROOM			P1	P1	P1	P1		
G208	COUNSELOR			P1	P1	P1	P1		
G209	COUNSELOR			P1	P1	P1	P1		
G210	COUNSELOR			P1	P1	P1	P1		
G211	SECURITY			P1	P1	P1	P1		
G212	ASSIST. PRIN.			P1	P1	P1	P1		
G213	RECEPTION/WAITING			P1	P1	P1	P1		
G213A	CORRIDOR			P1	P1	P1	P1		
G214	TEACHERS LOUNGE			P1	P1	P1	P1		
G215	MAIL RM.			P1	P1	P1	P1		
G216	WK. RM./COPY			P1	P1	P1	P1		
G217	ASSIST. PRIN.			P1	P1	P1	P1		
G218	ASSIST. PRIN.			P1	P1	P1	P1		
G219	CONFERENCE			P1	P1	P1	P1		
G221	PRINCIPAL			P1	P1	P1	P1		
G222	SECTY.			P1	P1	P1	P1		
G223	SECRETARY	CP1	RB1	P1	P1	P1	P1		
G224	DIRECTOR	CP1	RB1	P1	P1	P1	P1		
G225	DMC			P1	P1	P1	P1		
G226	FAMILY CONSUMER SCIENCE			P1	P1	P1	P1		
G227	IDF/MDF			P1	P1	P1	P1		
G228	LAUNDRY			P1	P1	P1	P1		
G229	TELEPHONE ROOM.			P1	P1	P1	P1		
G230	SECRETARY			P1	P1	P1	P1		
G231	DIAG.			P1	P1	P1	P1		
G232	ARD/STORAGE			P1	P1	P1	P1		
G233	ROOM			P1	P1	P1	P1		
G234	ROOM			P1	P1	P1	P1		
G236	CLASSROOM			P7	P1	P1	P1		
G237	SEWING			P1	P7	P1	P1		
G237	VEST.			P1	P1	P1	P1		
G237A	SEWING STORAGE			P1	P1	P1	P1		
G238	SPEECH			P1	P1	P7	P1		
G238	VEST.			P1	P1	P1	P1		
G239	ROOM			P1	P1	P1	P1		
G240	ROOM			P1	P1	P1	P1		
Grand total									

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FOOD SERVICE
SWA
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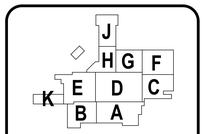
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

PROJECT NUMBER	DATE
220023	02/17/2025

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR SCHEDULES - AREA G

A-101G1

0" 1"

1ST FLOOR SCHEDULES - AREA G A-101G1

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

File Path: Autodesk Docs://CFISD_2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

CHECKED BY: William White
DRAWN BY: Joseph Garavito
Plot Stamp: 2/14/2025 10:53:36 AM

ISSUE FOR PROPOSAL

0"
1"

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M9 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M6.C U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOOR FRAMES SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

30 GENERAL ARCH PLAN NOTES

AT ALL NEW CASEWORK PROVIDE NEW 4" RUBBER BASE

ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE PAINTED.

ALL ROOMS TO RECEIVE NEW ROOM SIGNAGE AND WAY FINDING AT SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL.

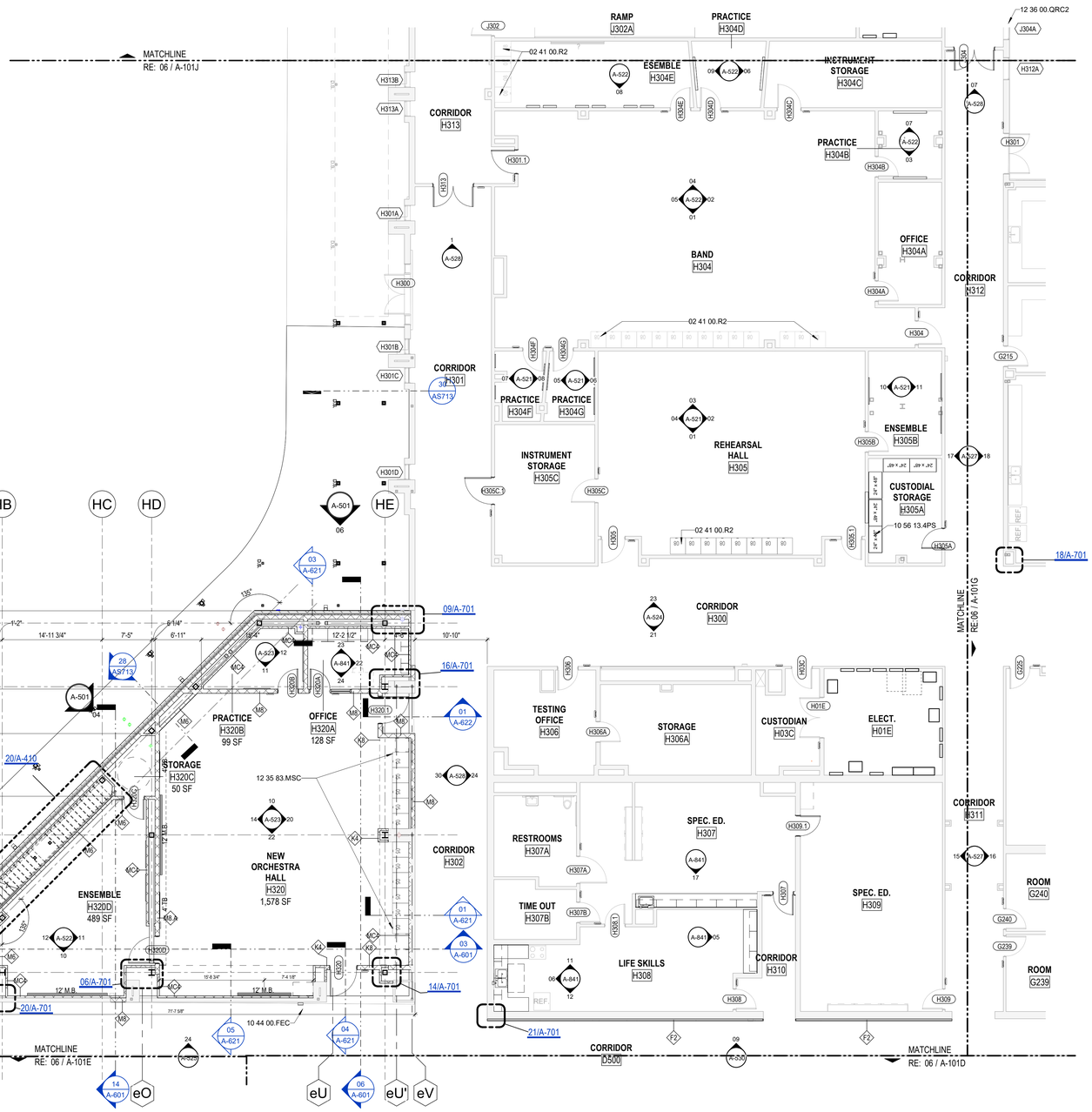
ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING TILE TO RECEIVE PAINT THROUGHOUT CAMPUS G.C. SHALL REINSTALL ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATE W/ CAMPUS PRIOR TO REINSTALLATION. RE: MEPT FOR ADDITIONAL SCOPE.

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

KEYNOTE LEGEND

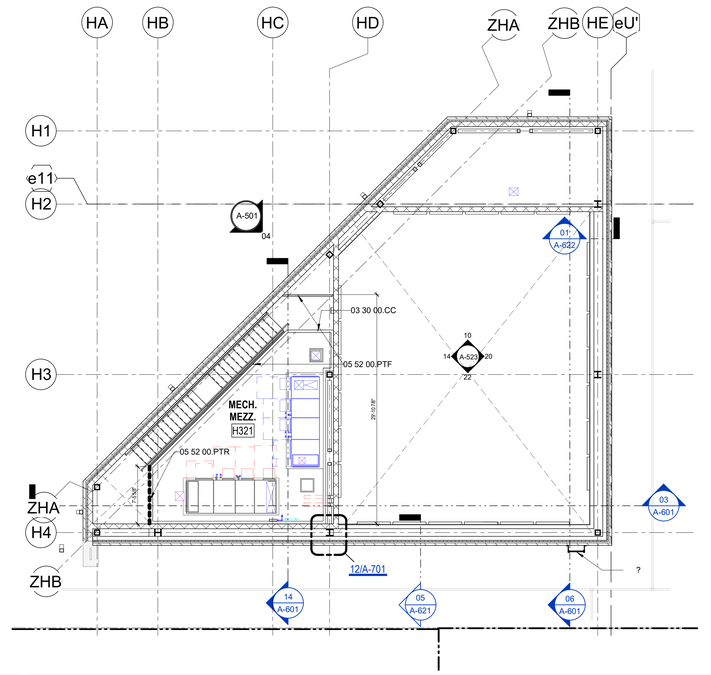
NUMBER	DESCRIPTION
02 41 00.R2	REINSTALL EXISTING INSTRUMENT STORAGE LOCKERS FROM OLD ENSEMBLE ROOM AND NEW BASE AT SHOWN LOCATION.
03 30 00.CC	4" CONCRETE CURB. RE: STRUCTURAL
05 52 00.PTF	POST, [1-1/2] [1-5/8]" SQUARE, FIXED
05 52 00.PTR	POST, [1-1/2] [1-5/8]" SQUARE, REMOVABLE
10 44 00.FEC	FIRE EXTINGUISHER CABINET
10 56 13.4PS	FOUR POST SHELVING
12 35 83.MSC	MUSICAL INSTRUMENT STORAGE CABINET
12 36 00.QRC2	NATURAL QUARTZ-WINDOW SILLS/JAMB

25 KEYNOTES



06 1ST LEVEL - FLOOR PLAN - AREA H
1/8" = 1'-0"

14 MECHANICAL BUILDING - ENLARGED PLAN
1/8" = 1'-0"



02 MEZZANINE - FLOOR PLAN - AREA H
1/8" = 1'-0"

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LEAP
T 713-840-3300
ACOUSTIC
SHEN
T 512-476-3654
FOOD SERVICE
RSH
T 281-256-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT
STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR PLAN - AREA H

A-101H

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt
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Plot Stamp: 2/14/2025 8:32:07 AM

DOOR SCHEDULE REMARKS

1. PANIC EXIT HARDWARE
2. NOT AN ENTRY DOOR, EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
3. NO LOCKING HARDWARE
4. ELEC. DOOR OPENER
5. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
6. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
7. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
8. KEYED REMOVABLE CENTER MULLION
9. CENTER ASTRAGAL
10. 180 DEGREE SWING
11. CONT. HINGE
12. WEATHER-STRIP SEAL
13. FIRE SMOKE SEAL
14. SOUND SEAL
15. PEEP HOLE
16. DOOR BUZZER
17. DOOR CHIME ON OPEN
18. MANUAL HOLD-OPEN
19. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
20. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
21. INSULATED DOOR
22. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
23. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMLBY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
24. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
25. MANUAL PUSH-UP OPERATION
26. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
27. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
28. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
29. PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
30. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
31. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
32. FAIL SAFE IN OPEN POSITION
33. FAIL SAFE IN CLOSED POSITION
34. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
35. SIGNAGE ON DOOR TO READ "NOT AN EXIT"
36. EXISTING DOOR TO REMAIN. NEW HARDWARE ONLY
37. EXISTING DOOR AND HARDWARE TO REMAIN. NEW CARD READER ONLY.
38. NEW DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.
39. NEW DOOR AND HARDWARE. PATCH AND REPAIR EXISTING FRAME AS REQD.
40. PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING DOOR GLAZING TO BE PREPPED TO RECEIVE SECURITY FILM
41. PROVIDE AND INSTALL SECURITY FILM RE: SPECS.
42. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 10/A-811.
43. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 11/A-811.
44. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 12/A-811.
45. DOORS TO BE WRAPPED WITH DIGITALLY PRINTED VINYL GRAPHIC RE: SPEC 12.11.00

WINDOW SCHEDULE REMARKS

1. PROVIDE HORIZONTAL BLINDS
2. PROVIDE MANUAL SUNSHADE
3. PROVIDE MOTORIZED SUNSHADE
4. PROVIDE MOTORIZED SUNSHADE AND BLACKOUT SHADE
5. PROVIDE BLACKOUT SHADE

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL H.M. DOORS U.N.O.

PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

PAINT ACCENT COLOR (P7) ON TEACHING WALL WITHIN CLASSROOMS

LAY-IN CEILING TYPES
- TYPE A: STANDARD MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE B: GLASS FIBER, HIGH NRC, ANTIMICROBIAL, 24"X24"
- TYPE C: VINYL-FACED MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE D: IMPACT RESISTANT, MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE E: WOOD FIBER, 24"X24"
- TYPE F: MINERAL FIBER, ANTIMICROBIAL, 24"X24"

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO CEILING PLANS
4. 48"H FRP WAINSCOT AT MOP SINK. EXTEND 24" EACH SIDE BEYOND SINK EDGES.
5. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
6. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND. PAINT
7. PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
8. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
9. PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
10. DO NOT PAINT ACOUSTICAL STRUCT. DECK
11. 1-HR FIRE RATED CEILING ASSEMBLY
12. 2-HR FIRE RATED CEILING ASSEMBLY
13. DOUBLE CEILING ASSEMBLY, REFER TO _____
14. HOLD-DOWN CLIPS AT SUSP. LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION

EXISTING DOOR SCHEDULE - AREA H

DOOR			PANEL				FRAME							GENERAL			
											DETAIL						
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
H01E	6'-0"	6'-10"	F / F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H03C	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT							
H300	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	EXIST	NONE	021	EXIST	PT	08/A-812	02/A-812	14/A-812				40
H301	6'-0"	8'-0"	NV-1 / NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	PT							40
H304	3'-6"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H304A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H304B	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H304C	3'-6"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H304D	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H304E	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H304F	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H304G	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H305	3'-6"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H305.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H305B	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H305C	3'-6"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H306	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H306A	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H307A	4'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H307B	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H308	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H308.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
H309	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36

WINDOW SCHEDULE - AREA H

MARK	SIZE WIDTH	SIZE HEIGHT	ELEVATION	REMARKS
H301A	2'-4"	8'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
H301B	2'-4"	8'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
H301C	2'-4"	8'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
H301D	2'-4"	8'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
H312A	3'-4"	4'-6"	W-02	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
H313A	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
H313B	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM

ROOM FINISH SCHEDULE - AREA H

ROOM DATA		FLOOR	BASE	WALL FINISHES				CEILING S	
№	NAME	FINISH	FINISH	NORTH	EAST	SOUTH	WEST	FINISH	COMMENTS
H01E	ELECT.			P1	P1	P1	P1		
H03C	CUSTODIAN			P1	P1	P1	P1		
H300	CORRIDOR	T3/T4/T5 /T6	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
H301	CORRIDOR	T3/T4/T5 /T6	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
H302	CORRIDOR	T3/T4/T5 /T6	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
H304	BAND	RFT1/RF T2/RFT3	RB1	P1	P1	P1	P1		
H304A	OFFICE			P1	P1	P1	P1		
H304B	PRACTICE	RFT1	RB1	P1	P1	P1	P1		
H304C	INSTRUMENT STORAGE	RFT1	RB1	P1	P1	P1	P1		
H304D	PRACTICE	RFT1	RB1	P1	P1	P1	P1		
H304E	ESEMBLE	RFT1	RB1	P1	P1	P1	P1		
H304F	PRACTICE	RFT1	RB1	P1	P1	P1	P1		
H304G	PRACTICE	RFT1	RB1	P1	P1	P1	P1		
H305	REHEARSAL HALL	RFT1/RF T2/RFT3	RB1	P1	P1	P7	P1		
H305A	CUSTODIAL STORAGE	SC1	RB1	P1	P1	P1	P1		
H305B	ENSEMBLE	RFT1	RB1	P1	P1	P1	P1		
H305C	INSTRUMENT STORAGE	RFT1	RB1	P1	P1	P1	P1		
H306	TESTING OFFICE			P1	P1	P1	P1		
H306A	STORAGE			P1	P1	P1	P1		
H307	SPEC. ED.			P7	P1	P1	P1		
H307A	RESTROOMS								
H307B	TIME OUT			P1	P1	P1	P1		
H308	LIFE SKILLS			P1	P1	P1	P1		
H309	SPEC. ED.			P1	P7	P1	P1		
H310	CORRIDOR			P1	P1	P1	P1		
H311	CORRIDOR	T3/T4/T5 /T6	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
H312	CORRIDOR	T3/T4/T5 /T6	T11	T2/T7/T1	T2/T7/T1	T2/T7/T1	T2/T7/T1		
H313	CORRIDOR	T3/T4/T5 /T6	T11	T3	T3	T3	T3		
H320	NEW ORCHESTRA HALL	CP1	RB1	P1	P1	P7	P1		
H320A	OFFICE	CP1	RB1	P1	P1	P1	P1		
H320B	PRACTICE	CP1	RB1	P1	P1	P1	P1		
H320C	STORAGE	CP1	RB1	P1	P1	P1	P1		
H320D	ENSEMBLE	CP1	RB1	P1	P1	P7	P1		
H320E	MECH STAIR	SC1	RB1	P1	P1	P1	P1		
Grand total									

NEW DOOR SCHEDULE - AREA H

DOOR			PANEL				FRAME							GENERAL			
											DETAIL						
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
H301.1	3'-6"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812		50		22
H305A	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	09/A-812	03/A-812	15/A-812			
H307	3'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812			38
H309.1	3'-0"	6'-10"	NV-1	1 3/4"	<By Category>	PL-1	NONE	001	HM	<By Category >	NONE						
H313	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	WD	PL-1	NONE	001	EXIST	PT	NONE	09/A-812	03/A-812	15/A-812			38, 20
H320.1	4'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	09/A-812	03/A-812	15/A-812		50	22
H320A	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	NONE	013	HM	PT	NONE	09/A-812	03/A-812	15/A-812			22
H320B	3'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	09/A-812	03/A-812	15/A-812		50	22
H320C	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	09/A-812	03/A-812	15/A-812			
H320D	4'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	09/A-812	03/A-812	15/A-812		50	22
H321	4'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	HM	PT	NONE	09/A-812	03/A-812	15/A-812			

STOREFRONT & CURTAIN WALL SCHEDULE - AREA H

MARK	FRAME SIZE W x H WIDTH	FRAME SIZE W x H HEIGHT	ELEVATION	FRAME MATERIAL	FRAME DEPTH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS

PBK

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713-961-4571 F
TX Firm: BR 1608

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LANDSCAPE
EDGELAND GROUP
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STRUCTURAL
KURTH & ASSOCIATES
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MEP/T
LEAP
T 713-540-3200

ACOUSTIC
T 512-476-3464

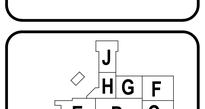
FOOD SERVICE
RDH
T 281-550-2323

POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

PROJECT NUMBER	DATE
220023	02/17/2025

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR SCHEDULES - AREA H

A-101H1

1ST FLOOR SCHEDULES - AREA H A-101H1

FOR BLUEBEAM LABELING/OCR:

0" 1"

ISSUE FOR PROPOSAL

Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

File Path:

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DRAWN BY: Joseph Garavito
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0"
1"

1ST FLOOR PLAN - AREA J

A-101J

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

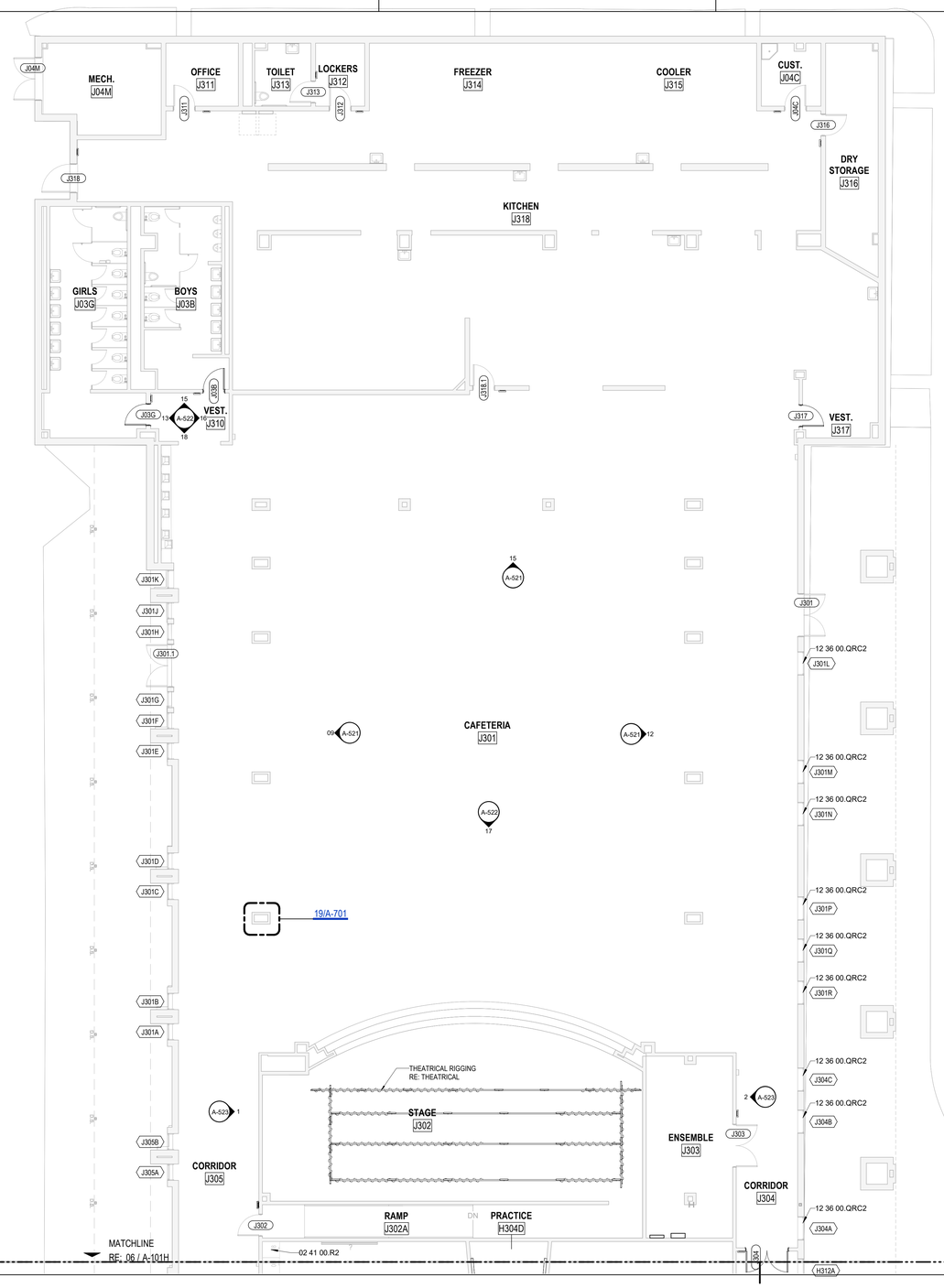
1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M5 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M6.C U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOOR FRAMES SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

30 GENERAL ARCH PLAN NOTES

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.R2	REINSTALL EXISTING INSTRUMENT STORAGE LOCKERS FROM OLD ENSEMBLE ROOM AND NEW BASE AT SHOWN LOCATION.
12 36 00.QRC2	NATURAL QUARTZ-WINDOW SILLS/JAMB

25 KEYNOTES



AT ALL NEW CASEWORK PROVIDE NEW 4" RUBBER BASE

ALL EXISTING HM DOOR, WINDOW AND LIGHT KIT FRAMES TO BE PAINTED.

ALL ROOMS TO RECEIVE NEW ROOM SIGNAGE AND WAY FINDING AT SAME LOCATION U.N.O. G.C. TO COORDINATE TIMING W/ NEW SIGNAGE APPROVAL.

ALL PREVIOUSLY PAINTED INTERIOR SURFACES EXCLUDING TILE TO RECEIVE PAINT THROUGHOUT CAMPUS G.C. SHALL REINSTALL ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO WALL MOUNTED EQP, PICTURE FRAMES, ART, PLAQUES, SIGNAGE, ACOUSTICAL PANELS, ETC. G.C. TO COORDINATE W/ CAMPUS PRIOR TO REINSTALLATION. RE: MEPT FOR ADDITIONAL SCOPE.

ALL PAINTED CAMPUS GRAPHICS SHALL BE PROTECTED AND NOT PAINTED OVER. COORDINATE WITH ARCHITECT FOR EXTENTS OF PAINT BOUNDARY IN THESE AREAS.

06 1ST LEVEL - FLOOR PLAN - AREA J

1/8" = 1'-0"

PBK

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SHEN
T 512-476-3664
FOOD SERVICE
JBB
T 281-256-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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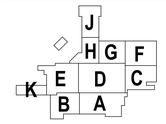
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN - AREA J

A-101J

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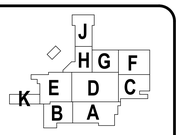

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

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Cy-Fair Independent School District

PROJECT NUMBER	DATE
220023	02/17/2025

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST FLOOR SCHEDULES - AREA J

A-101J1

DOOR SCHEDULE REMARKS

1. PANIC EXIT HARDWARE
2. NOT AN ENTRY DOOR, EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
3. NO LOCKING HARDWARE
4. ELEC. DOOR OPENER
5. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
6. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
7. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
8. KEYED REMOVABLE CENTER MULLION
9. CENTER ASTRAGAL
10. 180 DEGREE SWING
11. CONT. HINGE
12. WEATHER-STRIP SEAL
13. FIRE SMOKE SEAL
14. SOUND SEAL
15. PEEP HOLE
16. DOOR BUZZER
17. DOOR CHIME ON OPEN
18. MANUAL HOLD-OPEN
19. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
20. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
21. INSULATED DOOR
22. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
23. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMLBY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
24. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
25. MANUAL PUSH-UP OPERATION
26. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
27. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
28. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
29. PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
30. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
31. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
32. FAIL SAFE IN OPEN POSITION
33. FAIL SAFE IN CLOSED POSITION
34. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
35. SIGNAGE ON DOOR TO READ "NOT AN EXIT"
36. EXISTING DOOR TO REMAIN. NEW HARDWARE ONLY
37. EXISTING DOOR AND HARDWARE TO REMAIN. NEW CARD READER ONLY.
38. NEW DOOR AND HARDWARE. EXISTING FRAME TO REMAIN.
39. NEW DOOR AND HARDWARE. PATCH AND REPAIR EXISTING FRAME AS REQ'D.
40. PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING DOOR GLAZING TO BE PREPPED TO RECEIVE SECURITY FILM.
41. PROVIDE AND INSTALL SECURITY FILM RE: SPECS.
42. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 10/A-811.
43. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 11/A-811.
44. EXISTING FRAME TO REMAIN. REPLACE GLAZING. REFER TO ELEVATION 12/A-811.
45. DOORS TO BE WRAPPED WITH DIGITALLY PRINTED VINYL GRAPHIC RE: SPEC 12.11.00

EXISTING DOOR SCHEDULE - AREA J

DOOR			PANEL					FRAME							GENERAL			
											DETAIL							
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
J04C	3'-0"	6'-10"	F	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	07/A-812	03/A-812	15/A-812				36
J04M	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	07/A-812	01/A-812	13/A-812				36
J301	6'-0"	8'-0"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	07/A-812	01/A-812	13/A-812				40
J301.1	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	07/A-812	01/A-812	13/A-812				40
J302	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
J303	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
J311	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
J312	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	EXIST	NONE	001	EXIST	EXIST							NO SCOPE
J313	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
J316	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				36
J318	4'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	07/A-812	01/A-812	13/A-812				15
J318.1	3'-0"	6'-10"	NV-1	1 3/4"	EXIST	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				

NEW DOOR SCHEDULE - AREA J

DOOR			PANEL					FRAME							GENERAL		
											DETAIL						
MARK	WIDTH	HEIGHT	TYPE: A / B	THK	MATL	FINISH	GLASS TYPE	TYPE	MATL	FINISH	JAMB	SILL	HEAD	FIRE RATING	STC	HARDWARE SET	REMARKS
J03B	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				38
J03G	3'-0"	6'-10"	F	1 3/4"	WD	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				38
J304	6'-0"	6'-10"	NV-1 / NV-1	1 3/4"	WD	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				38, 20
J317	3'-0"	6'-10"	NV-1	1 3/4"	WD	PL-1	NONE	001	EXIST	PT	09/A-812	03/A-812	15/A-812				38

WINDOW SCHEDULE REMARKS

1. PROVIDE HORIZONTAL BLINDS
2. PROVIDE MANUAL SUNSHADE
3. PROVIDE MOTORIZED SUNSHADE
4. PROVIDE MOTORIZED SUNSHADE AND BLACKOUT SHADE
5. PROVIDE BLACKOUT SHADE

WINDOW SCHEDULE - AREA J

MARK	SIZE		ELEVATION	REMARKS
	WIDTH	HEIGHT		
J301A	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301B	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301C	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301D	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301E	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301F	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301G	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301H	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301J	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301K	2'-7 1/2"	10'-0"	W-04	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301L	3'-4"	6'-0"	W-01	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301M	3'-4"	6'-0"	W-01	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301N	3'-4"	6'-0"	W-01	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301P	3'-4"	6'-0"	W-01	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301Q	3'-4"	6'-0"	W-01	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J301R	3'-4"	6'-0"	W-01	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J304A	3'-4"	6'-0"	W-01	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J304B	3'-4"	6'-0"	W-01	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J304C	3'-4"	6'-0"	W-01	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J305A	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM
J305B	2'-4"	10'-0"	W-03	PROVIDE AND INSTALL SECURITY FILM RE: SPECS. EXISTING WINDOW TO BE PREPPED TO RECEIVE SECURITY FILM

STOREFRONT & CURTAIN WALL SCHEDULE - AREA J

MARK	FRAME SIZE W x H		ELEVATION	FRAME		DETAILS			REMARKS
	WIDTH	HEIGHT		FRAME MATERIAL	FRAME DEPTH	HEAD	JAMB	SILL	

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL H.M. DOORS U.N.O.

PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

PAINT ACCENT COLOR (P7) ON TEACHING WALL WITHIN CLASSROOMS

LAY-IN CEILING TYPES
- TYPE A: STANDARD MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE B: GLASS FIBER, HIGH NRC, ANTIMICROBIAL, 24"X24"
- TYPE C: VINYL-FACED MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE D: IMPACT RESISTANT, MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE E: WOOD FIBER, 24"X24"
- TYPE F: MINERAL FIBER, ANTIMICROBIAL, 24"X24"

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO CEILING PLANS
4. 48"H FRP WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES.
5. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
6. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND, PAINT
7. PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
8. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
9. PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
10. DO NOT PAINT ACOUSTICAL STRUCT. DECK
11. 1-HR FIRE RATED CEILING ASSEMBLY
12. 2-HR FIRE RATED CEILING ASSEMBLY
13. DOUBLE CEILING ASSEMBLY, REFER TO _____
14. HOLD-DOWN CLIPS AT SUSP: LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION

ROOM FINISH SCHEDULE - AREA J

Level	ROOM DATA			FLOOR FINISH	BASE FINISH	WALL FINISH	WALL FINISHES				CEILINGS	COMMENTS	Plan A
	№	NAME	Area				NORTH	EAST	SOUTH	WEST	FINISH		
LEVEL 1	J03B	BOYS	277 SF										J
LEVEL 1	J03G	GIRLS	382 SF										J
LEVEL 1	J04C	CUST.	74 SF				P1	P1	P1	P1			J
LEVEL 1	J04M	MECH.	205 SF				P1	P1	P1	P1			J
LEVEL 1	J301	CAFETERIA	7,979 SF	T3/T4/T5/T6/CP2	T11		T3	T3	T3	T3			J
LEVEL 1	J302	STAGE	1,354 SF	STAGE REPAINTING	RB2		P6	P6	P6	P6			J
LEVEL 1	J302A	RAMP	258 SF	STAGE REPAINTING	RB2		P6	P6	P6	P6			J
LEVEL 1	J303	ENSEMBLE	315 SF	RFT1	RB1		P1	P1	P1	P1			J
LEVEL 1	J304	CORRIDOR	239 SF	T3/T4/T5/T6	T11		T3	T3	T3	T3			J
LEVEL 1	J305	CORRIDOR	316 SF	T3/T4/T5/T6	T11		T3	T3	T3	T3			J
LEVEL 1	J310	VEST.	75 SF	T3/T4/T5/T6	T11		T3	T3	T3	T3			J
LEVEL 1	J311	OFFICE	93 SF				P1	P1	P1	P1			J
LEVEL 1	J312	LOCKERS	63 SF				P1	P1	P1	P1			J
LEVEL 1	J313	TOILET	70 SF										J
LEVEL 1	J314	FREEZER	284 SF										J
LEVEL 1	J315	COOLER	248 SF										J
LEVEL 1	J316	DRY STORAGE	232 SF										J
LEVEL 1	J317	VEST.	70 SF				P1	P1	P1	P1			J
LEVEL 1	J318	KITCHEN	3,575 SF				P1	P1	P1	P1			J
Grand total			16,108 SF										

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0" 1"

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1"

1ST FLOOR CEILING PLAN - COMPOSITE
A-201
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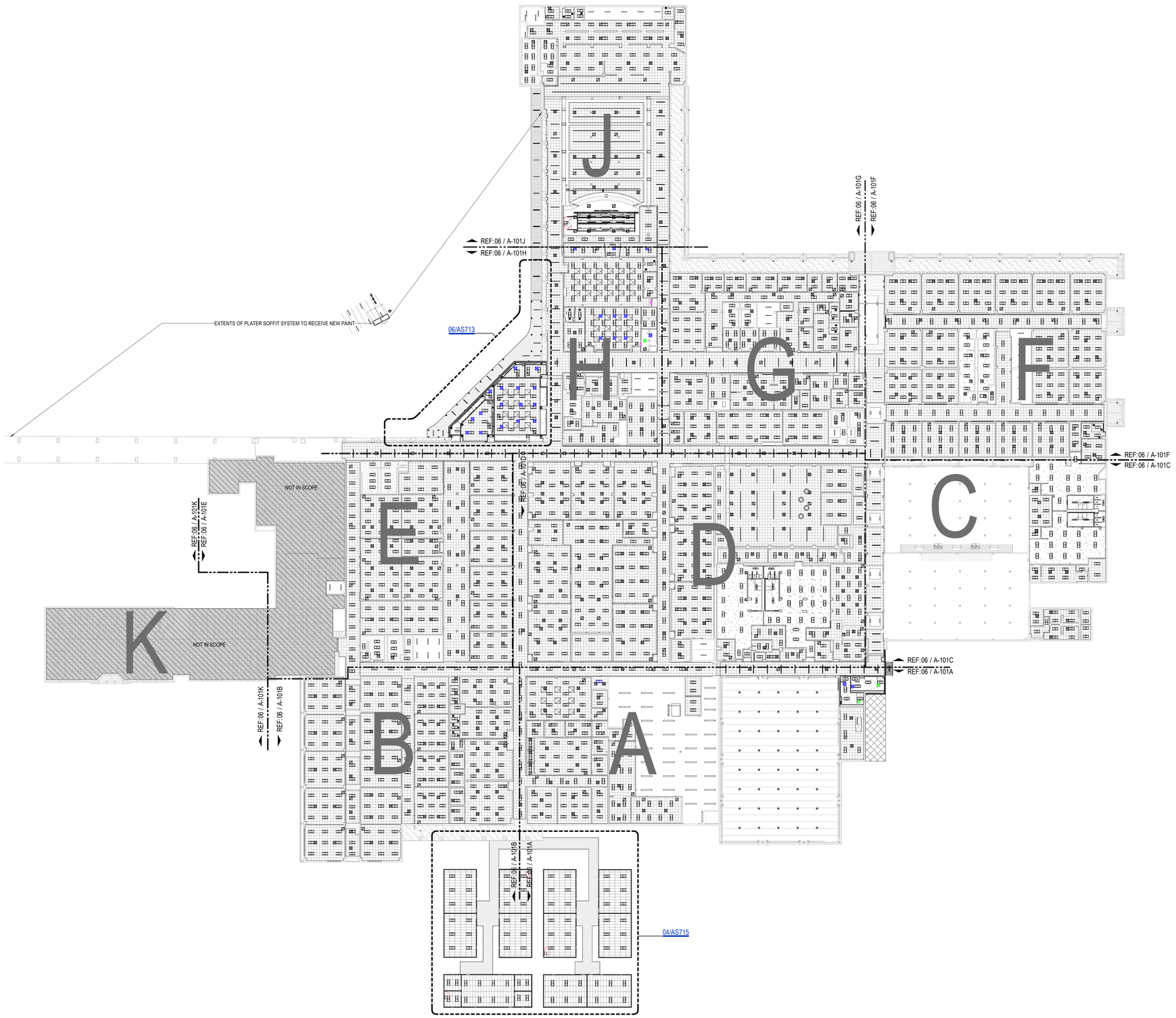

06 1ST LEVEL - CEILING PLAN - COMPOSITE
1" = 30'-0"

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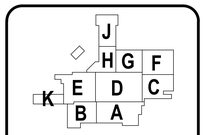

KEY PLAN
NORTH: PLAN TRUE

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1ST FLOOR CEILING PLAN - COMPOSITE

A-201

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0"
1"

1ST FLOOR CEILING PLAN - AREA A
A-201A
FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ALL SCHEDULED CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
3. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCH. CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
4. ONLY CEILING MOUNTED FIXTURES AND EQUIP. IS SHOWN ON ARCH. CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
5. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORD. WITH ELEC. DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
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30 GENERAL CEILING PLAN NOTES

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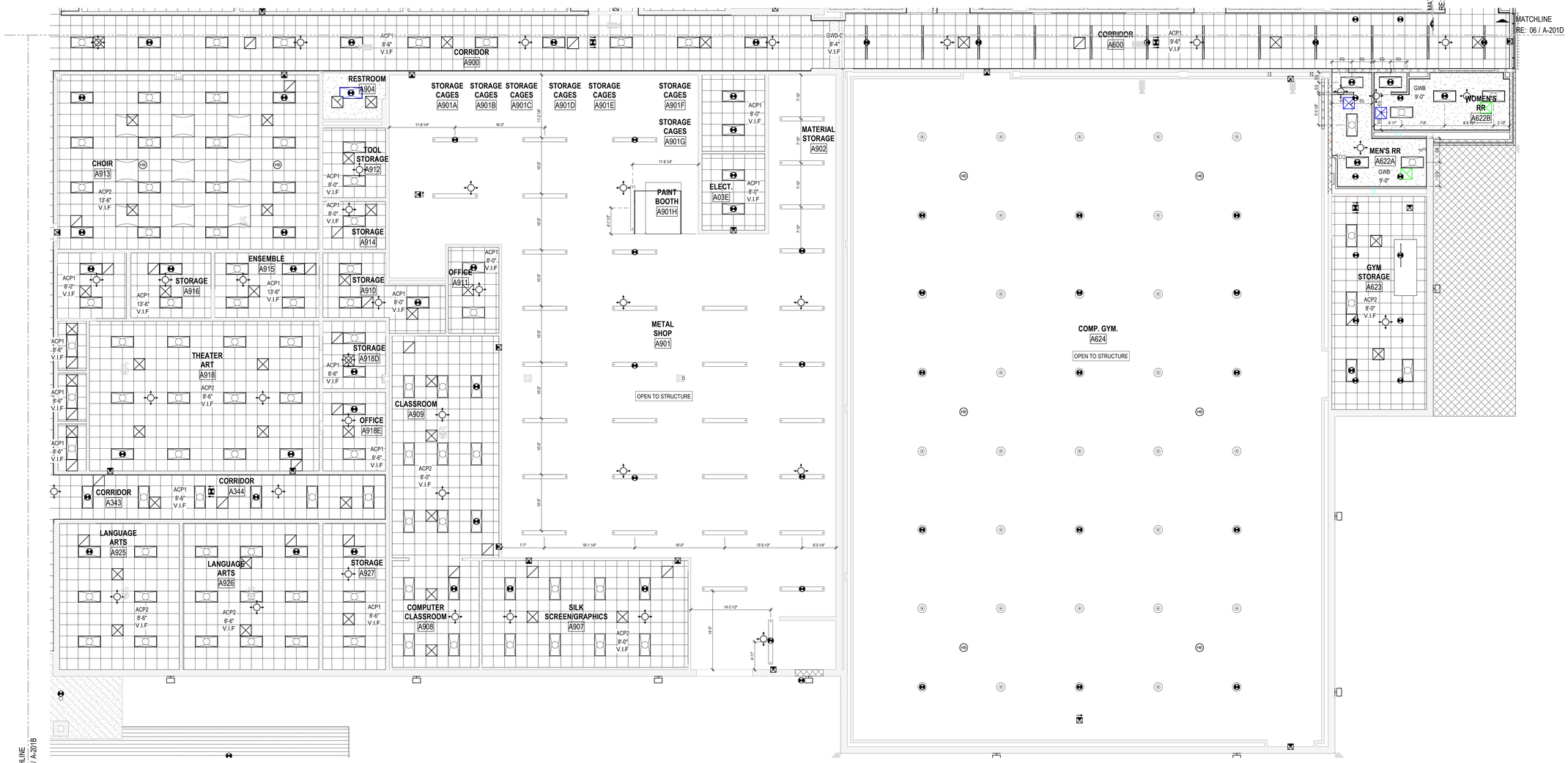
- PENDANT LIGHT FIXTURE
- ACOUSTICAL DIFFUSERS

26 NOT USED

25 KEYNOTES

KEYNOTE LEGEND	
NUMBER	DESCRIPTION

REPAINT ALL EXISTING GYP CEILINGS, FUR DOWNS, EXPOSED STRUCTURE, DUCTS AND CONDUITS.



06 1ST LEVEL - CEILING PLAN - AREA A
1/8" = 1'-0"

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T 000-000-0000

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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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J H G F K E D C B A

KEY PLAN NORTH: PLAN TRUE

DISCIPLINE

BRANDON D. GRAF 27340 REGISTERED ARCHITECT STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR CEILING PLAN - AREA A

A-201A

0"
1"

1ST FLOOR CEILING PLAN - AREA B
A-201B
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

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26 NOT USED

25 KEYNOTES

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NUMBER	DESCRIPTION

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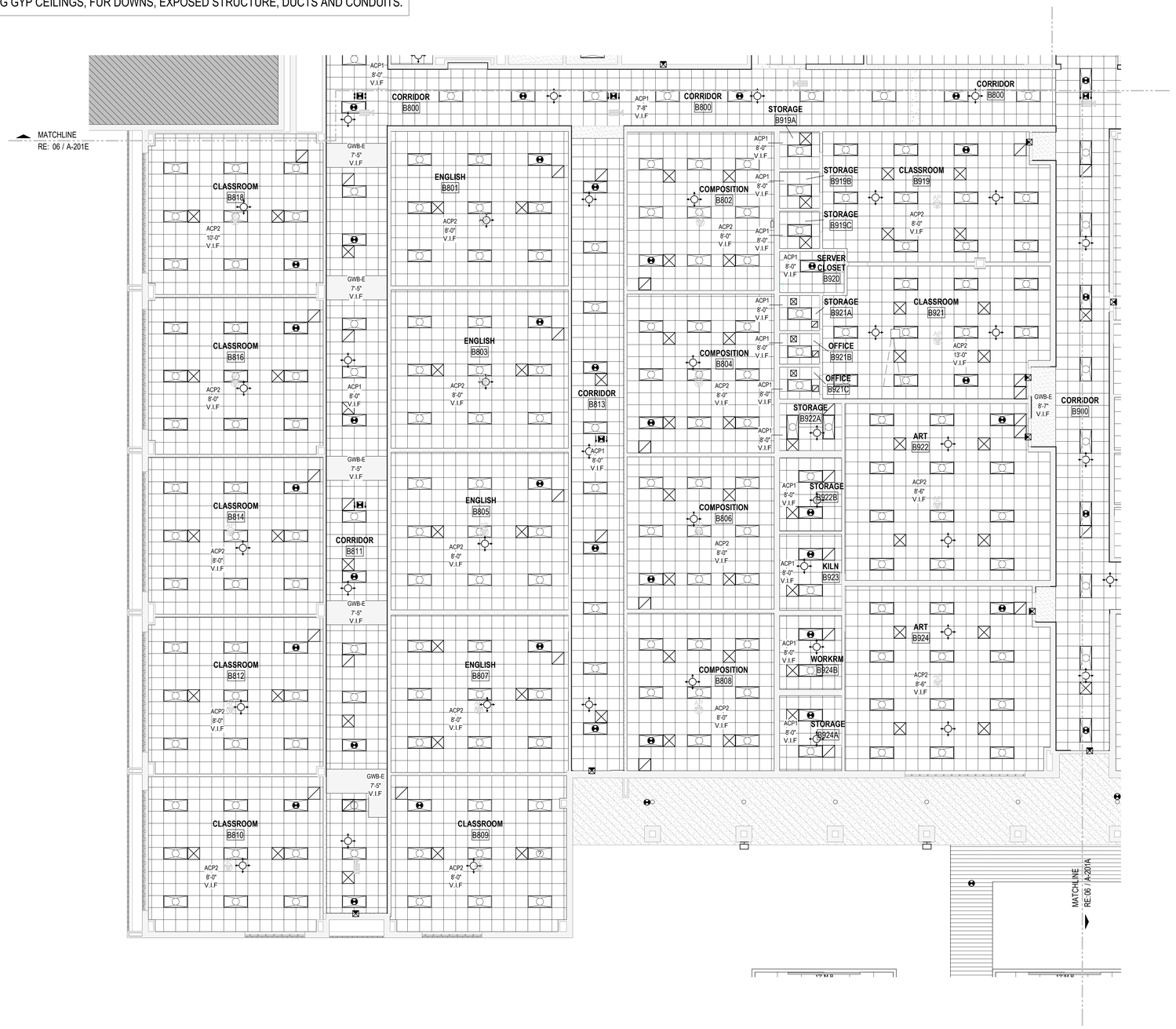

06 1ST LEVEL - CEILING PLAN - AREA B
1/8" = 1'-0"

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J H G F K E D C B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
BRANDON D. GUE — 27340 — REGISTERED ARCHITECT — STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR CEILING PLAN - AREA B

A-201B

0"
1"

1ST FLOOR CEILING PLAN - AREA C
A-201C
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

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- ACOUSTICAL DIFFUSERS

26 NOT USED

25 KEYNOTES

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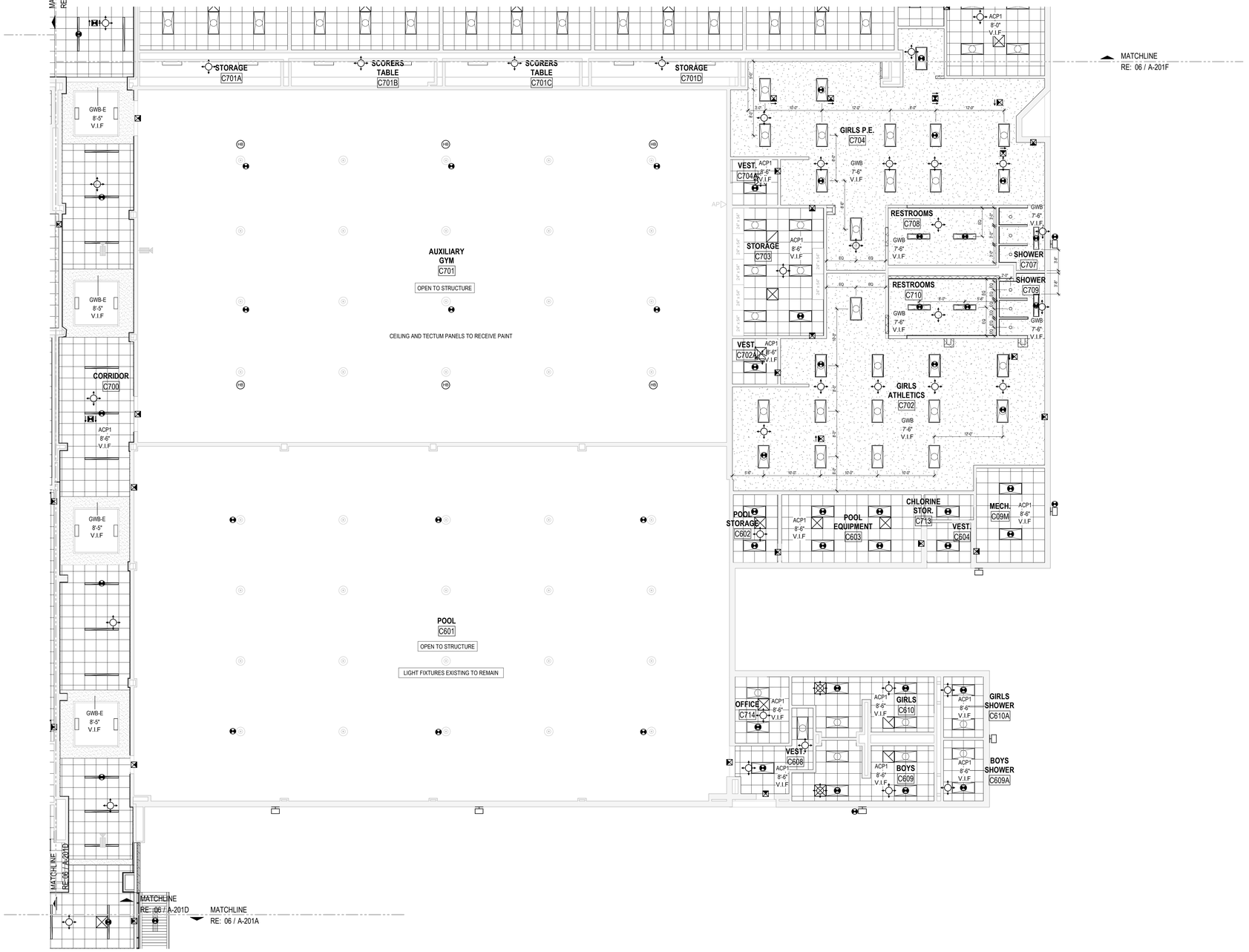

06 1ST LEVEL - CEILING PLAN - AREA C

1/8" = 1'-0"

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CONSULTANT NAME
T 000-000-0000

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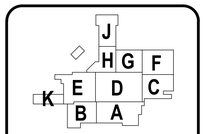
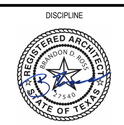


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE



01.20.2025

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR CEILING PLAN - AREA C

A-201C

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Author
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0"
1"

1ST FLOOR CEILING PLAN - AREA D

A-201D

FOR BLUEBEAM LABELING/OCR:

PROPOSAL

ISSUE FOR P

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25 KEYNOTES

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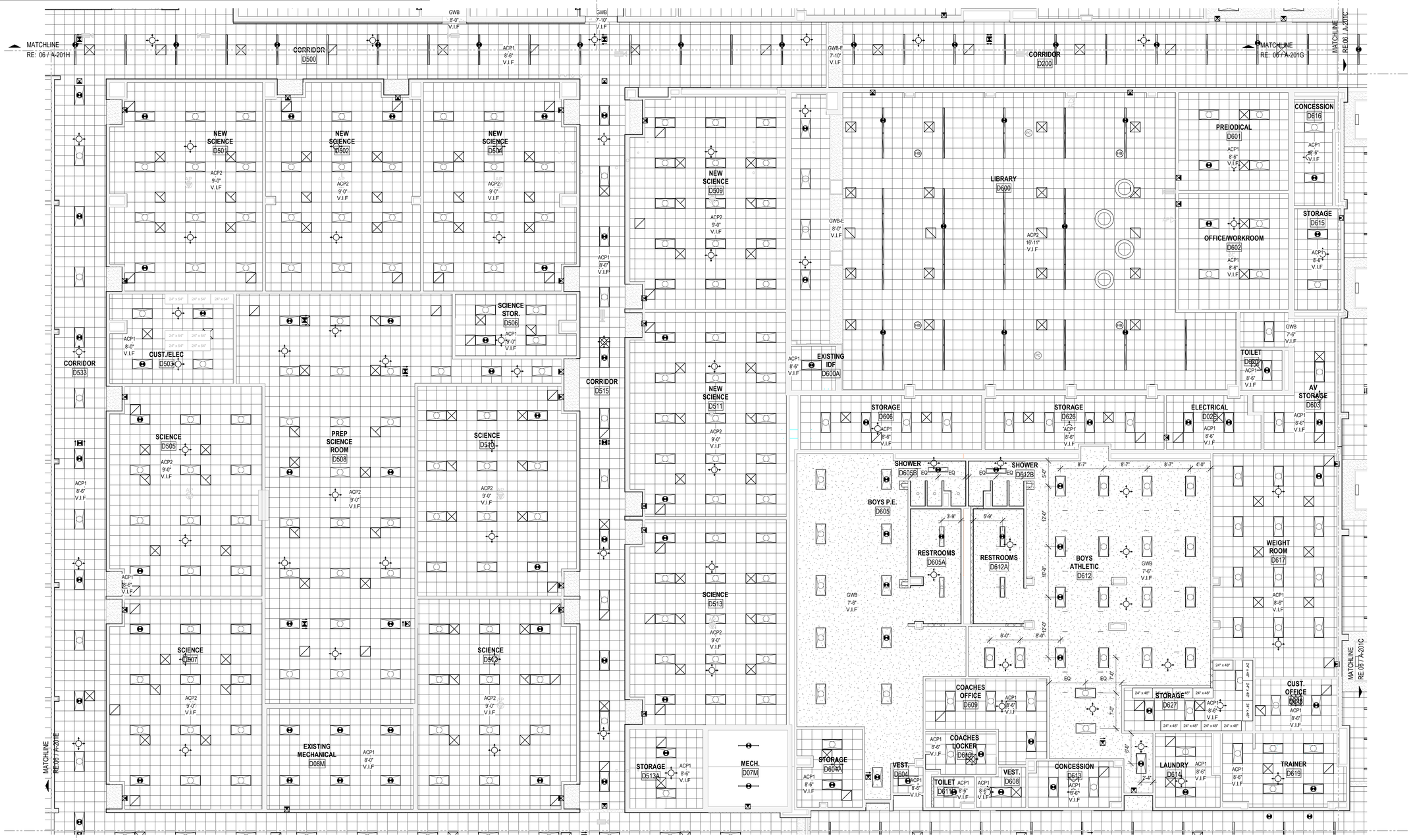

06 1ST LEVEL - CEILING PLAN - AREA D

1/8" = 1'-0"

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J H G F K E D C B A

KEY PLAN NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT BRANDON D. PBK 27140 STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

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ISSUE FOR PROPOSAL

BUILDING NUMBER

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A-201D

0"
1"

1ST FLOOR CEILING PLAN - AREA E
A-201E
FOR BLUEBEAM LABELING:

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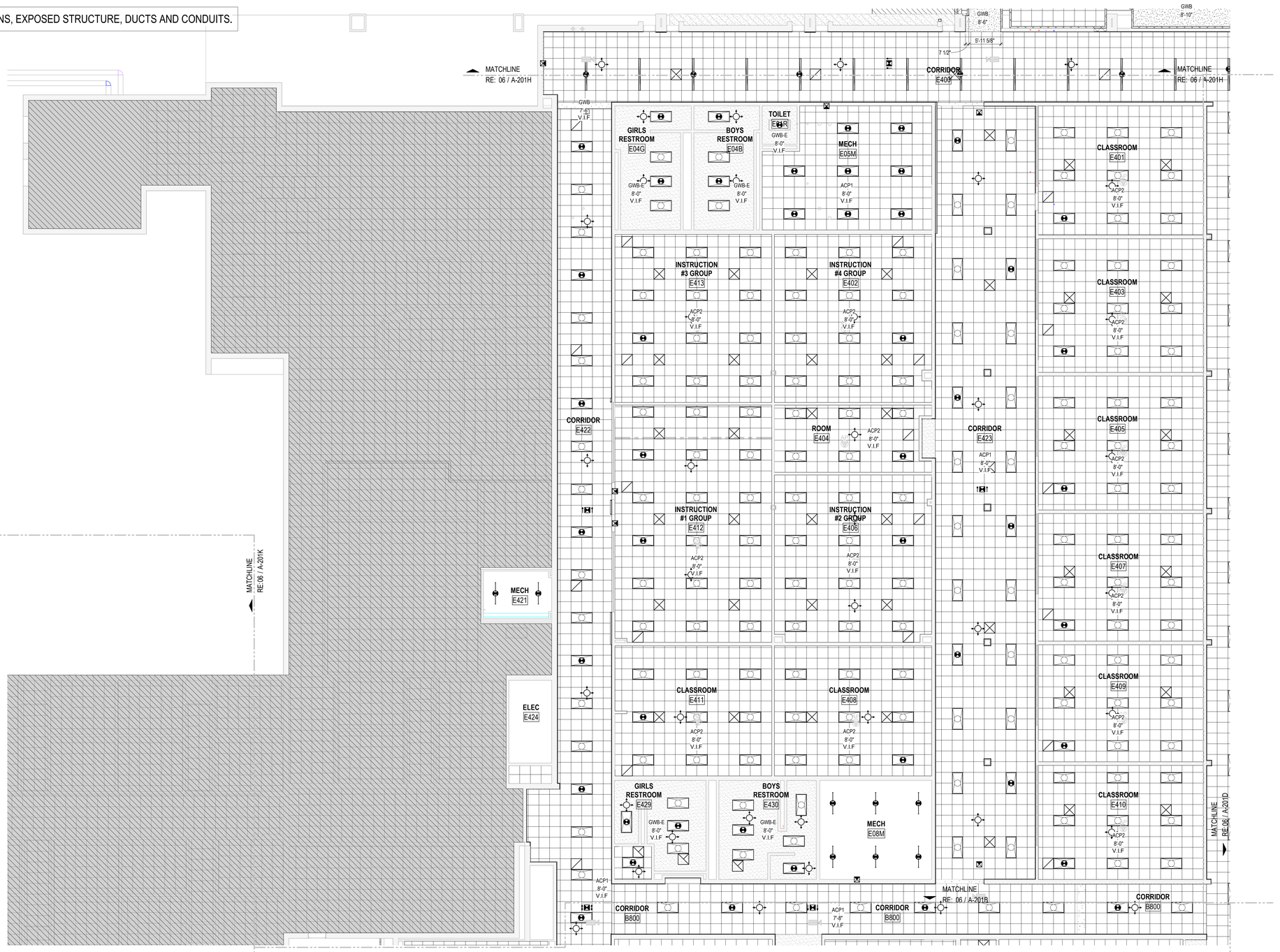

06 1ST LEVEL - CEILING PLAN - AREA E
1/8" = 1'-0"

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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT BENJAMIN D. KOCH 31140 STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR CEILING PLAN - AREA E

A-201E

0"
1"

1ST FLOOR CEILING PLAN - AREA F

A-201F

FOR BLUEBEAM LABELING:

PROPOSAL

ISSUE FOR P

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ALL SCHEDULED CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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8. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE

30 GENERAL CEILING PLAN NOTES

- PS - CEMENT PLASTER SYSTEM — *RE: FINISH SCHEDULE*
- PS - E: EXISTING CEMENT PLASTER SYSTEM — *RE: FINISH SCHEDULE*
- 2' x 4' ACOUSTIC PANEL — *RE: FINISH SCHEDULE*
- GWB - E: EXISTING GYPSUM BOARD
- GWB - GYPSUM BOARD — *RE: FINISH SCHEDULE*
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  ACP 2: TYPE 2
  ACP 3: TYPE 3
  ACP 4: TYPE 4
- OPEN TO STRUCTURE
- SHADED STRUCTURE — *RE: LANDSCAPE*
- NOT IN SCOPE

29 CEILING MATERIALS LEGEND

- 2' x 4' RECESSED LIGHT FIXTURE
- 2' x 2' RECESSED LIGHT FIXTURE
- RE: RCP — LINEAR RECESSED LIGHT FIXTURE
- RE: RCP — LINEAR PENDANT LIGHT FIXTURE
- RECESSED CAN LIGHT
- RE: RCP — PENDANT RING LIGHT FIXTURE
- 36" DIAMETER SURFACE MOUNTED
- 4' x 9" HIGH BAY STRIPLIGHT
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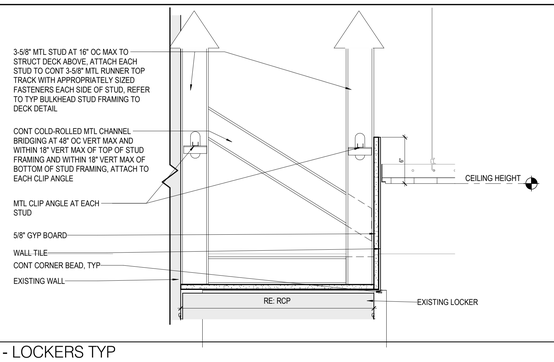
- 6' 0" L. TRACK LIGHT
- 3' 6" L. WALL MOUNTED LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- ACOUSTICAL DIFFUSERS

27 CEILING LIGHT FIXTURES

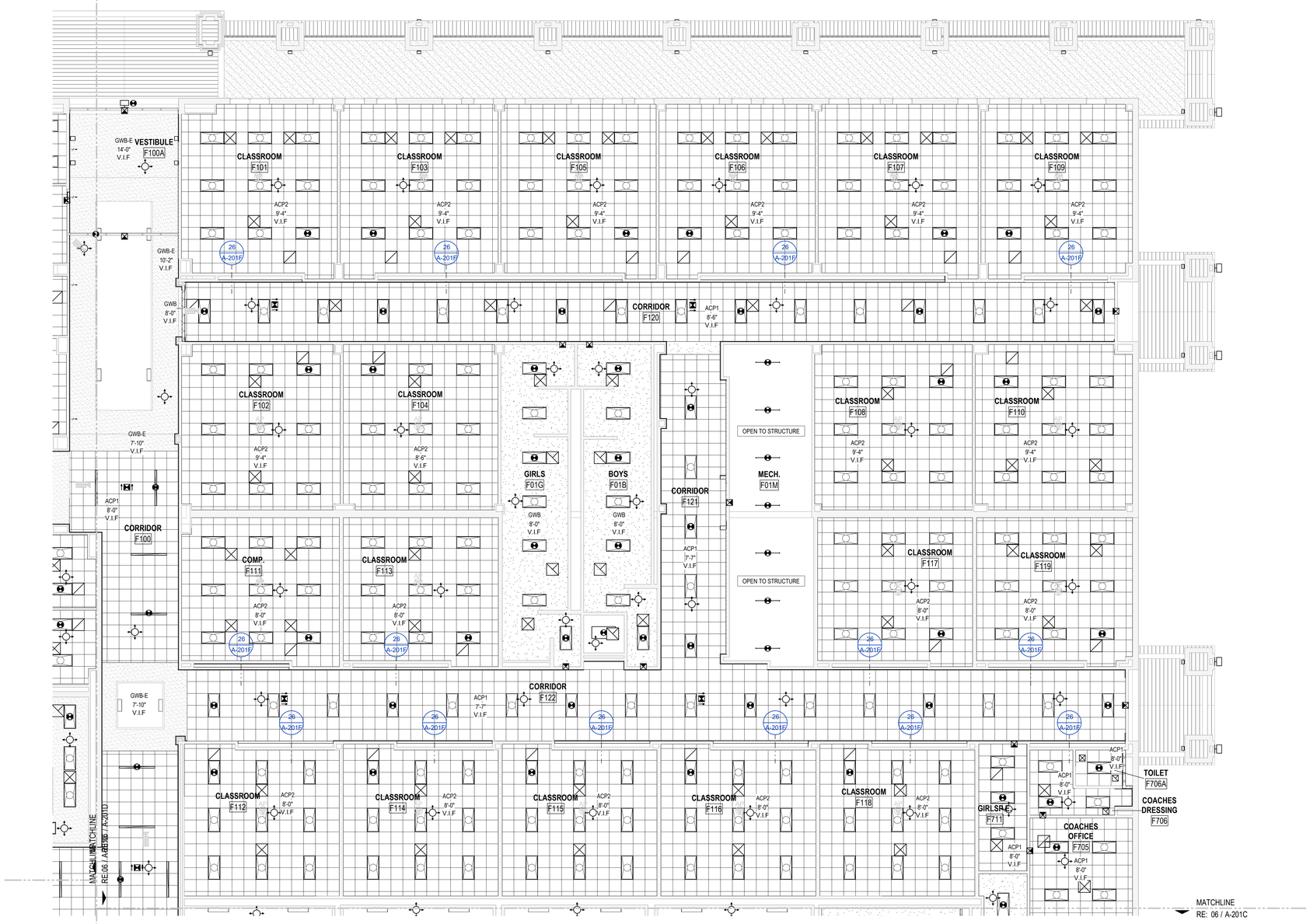


26 Ceiling Detail - LOCKERS TYP

1 1/2" = 1'-0"

REPAINT ALL EXISTING GYP CEILINGS, FUR DOWNS, EXPOSED STRUCTURE, DUCTS AND CONDUITS.

KEYNOTE LEGEND	
NUMBER	DESCRIPTION



06 1ST LEVEL - CEILING PLAN - AREA F

1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

CHECKED BY: Checker
DRAWN BY: Author
Plot Stamp: 2/14/2025 5:09:03 PM

PBK

ARCHITECT — PBK Architects, Inc. PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
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713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
BROOKS & SPARKS
T 281-578-5998
LANDSCAPE
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KUBENKA ENGINEERS
T 713-840-7343
MEPT
LEAP
T 713-540-3300
ACOUSTIC
T 512-476-3654
FOOD SERVICE
T 281-256-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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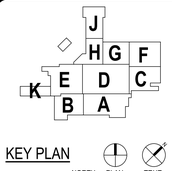

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

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BUILDING NUMBER

1ST FLOOR CEILING PLAN - AREA F

A-201F

0"
1"

1ST FLOOR CEILING PLAN - AREA G

A-201G

FOR BLUEBEAM LABELING:OOR:

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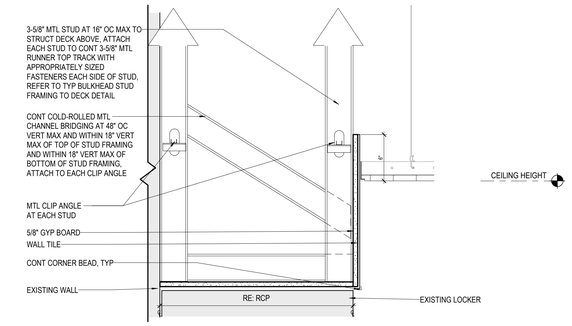

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1 1/2" = 1'-0"

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KEYNOTE LEGEND

NUMBER	DESCRIPTION

06 1ST LEVEL - CEILING PLAN - AREA G
1/8" = 1'-0"

ISSUE FOR PROPOSAL

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Plot Stamp: 2/14/2025 8:34:54 AM

PBK

ARCHITECT	PBK Architects, Inc.
HOUSTON	PBK.com
11 Greenway Plaza, 22nd Floor Houston, TX 77046 713-965-0608 P 713-961-4571 F TX Firm: BR 1608	
CIVIL BROOKS & SPARKS T 281-578-5998	
LANDSCAPE EDDELAND GROUP T 713-862-1666	
STRUCTURAL KUBENKA ENGINEERS T 713-840-7342	
MEPT LEAP T 713-340-3300	
ACOUSTIC SHEN T 512-476-3664	
FOOD SERVICE SSD T 281-256-2221	
POOL/AQUATICS CONSULTANT NAME T 000-000-0000	

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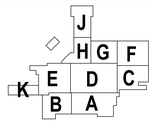

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01.20.2025

CLIENT
Cy-Fair Independent School District

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02/17/2025	220023

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BUILDING NUMBER

1ST FLOOR CEILING PLAN - AREA G

A-201G

0"
1"

1ST FLOOR CEILING PLAN - AREA H
A-201H
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

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25 KEYNOTES

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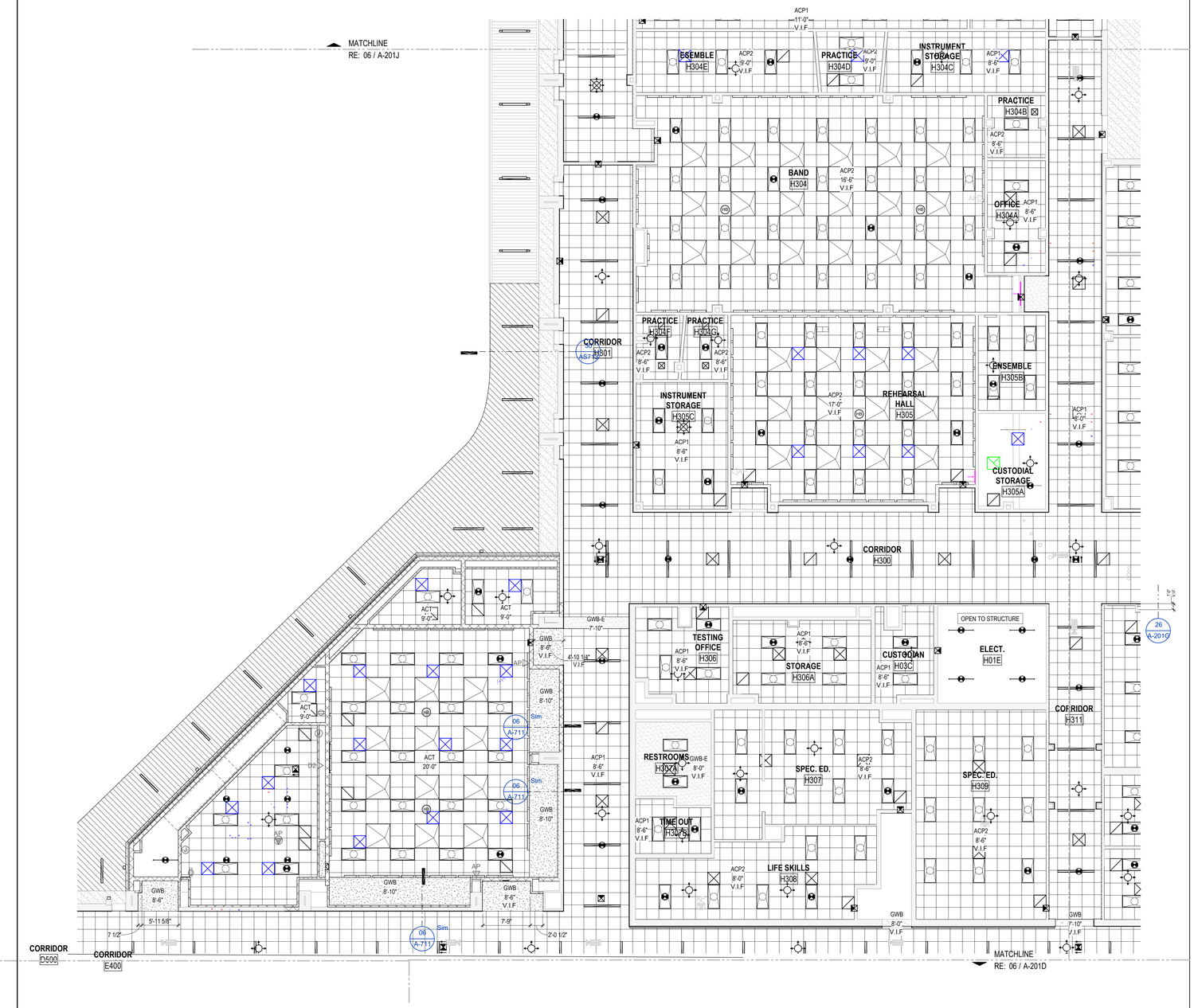
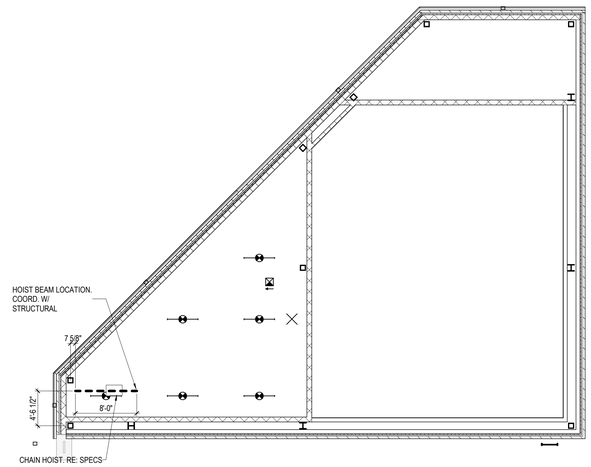


06 1ST LEVEL - CEILING PLAN - AREA H
1/8" = 1'-0"



02 2ND LEVEL - CEILING PLAN - AREA H
1/8" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
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FOOD SERVICE
TBD
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

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ISSUE FOR PROPOSAL

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NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

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1ST FLOOR CEILING PLAN - AREA H

A-201H

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt
CHECKED BY: Checker
DRAWN BY: Author
Plot Stamp: 2/14/2025 8:35:11 AM

0"
1"

1ST FLOOR CEILING PLAN - AREA J

A-201J

FOR BLUEBEAM LABELING OOR:

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KEYNOTE LEGEND

NUMBER	DESCRIPTION

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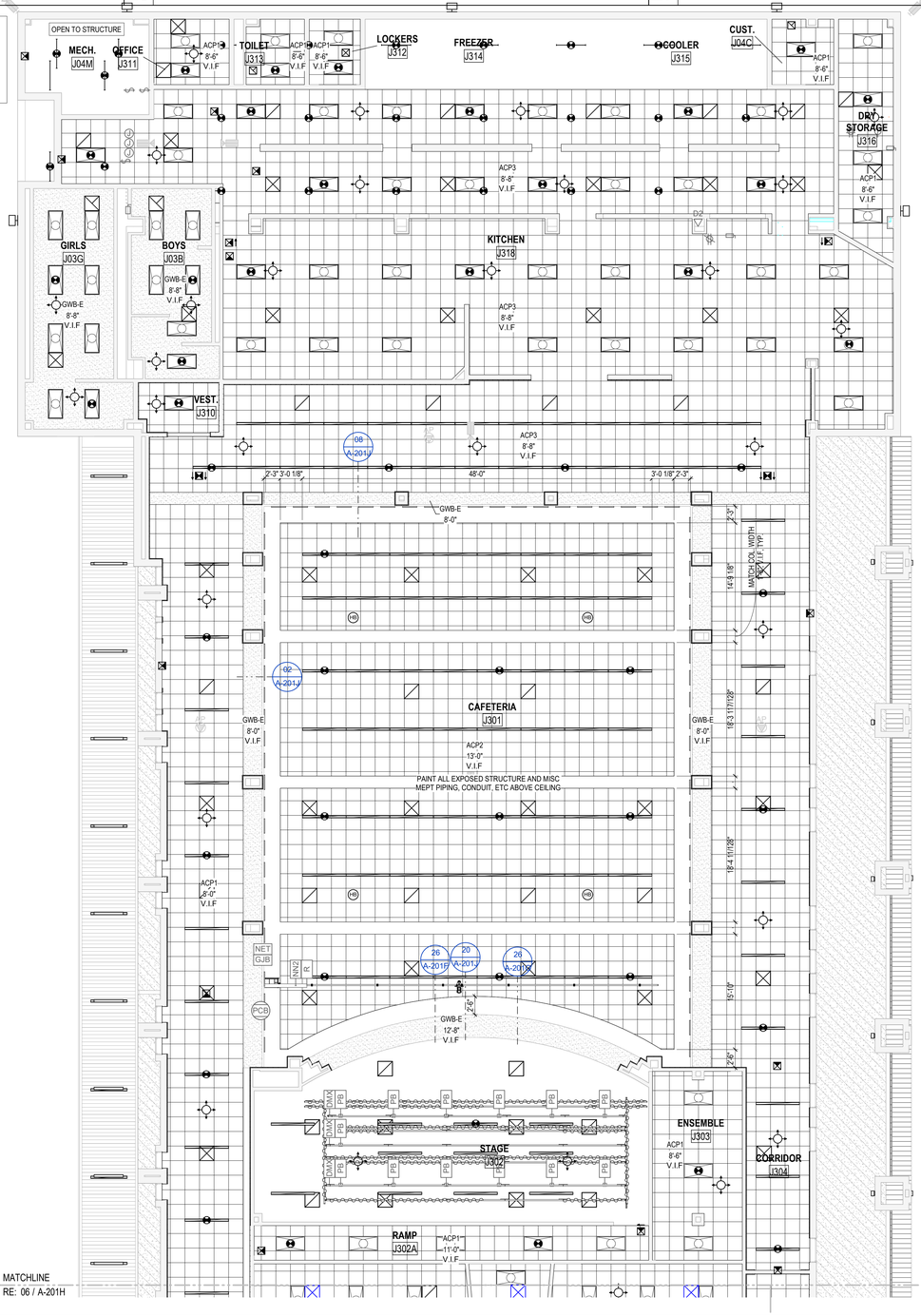
27 CEILING LIGHT FIXTURES

26 NOT USED

25 KEYNOTES



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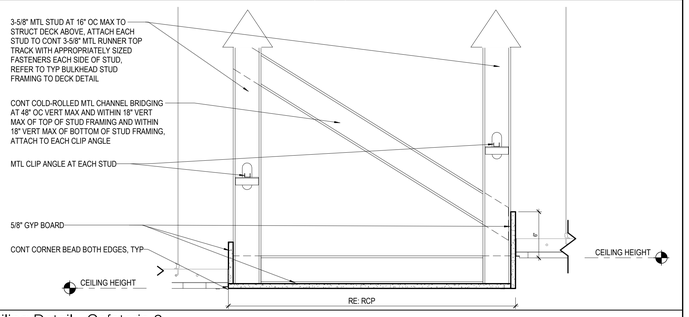
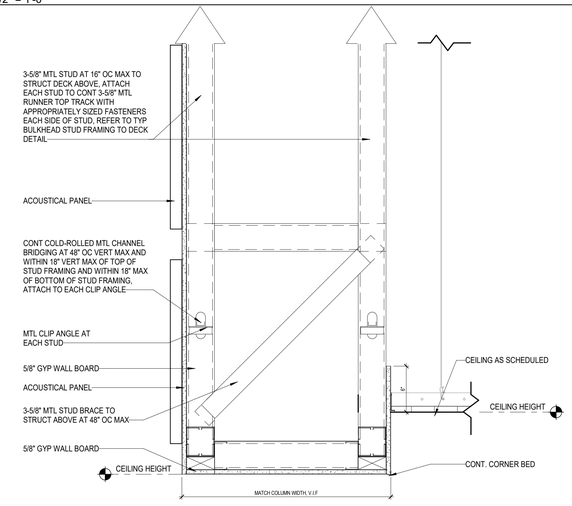
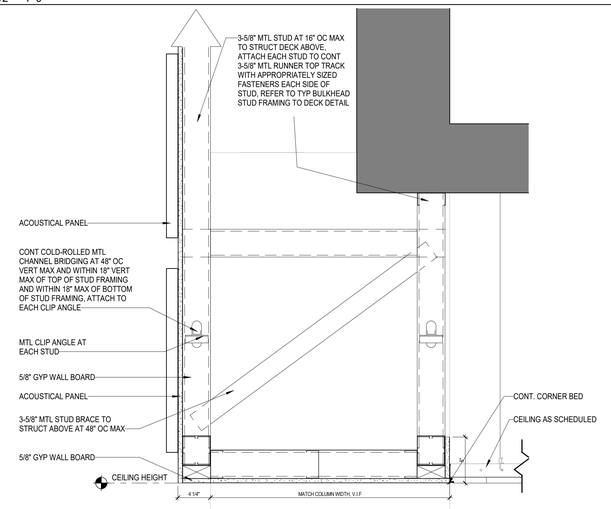


20 Ceiling Detail - Cafeteria 2
1 1/2" = 1'-0"



08 Ceiling Detail - Cafeteria 3
1 1/2" = 1'-0"



02 Ceiling Detail - Cafeteria 1
1 1/2" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
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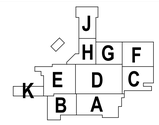

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT BRANDON M. KUBENKA 27149 STATE OF TEXAS

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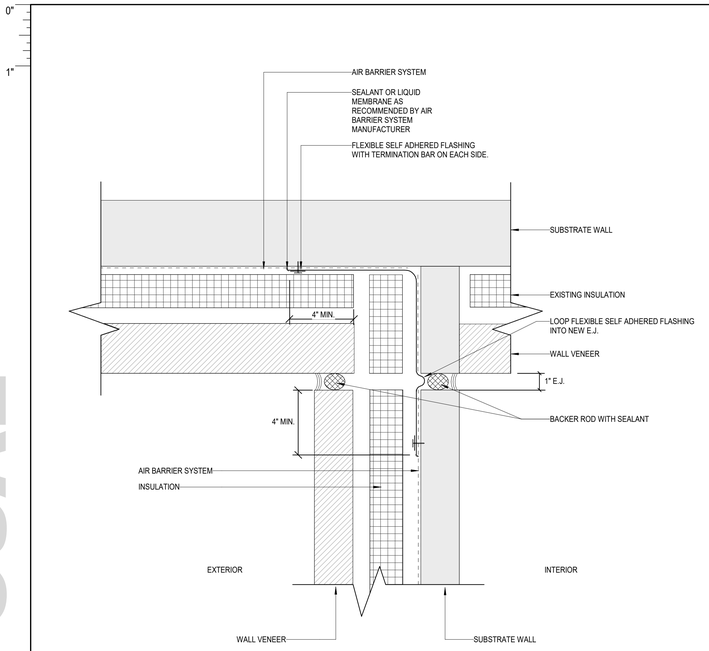
DRAWN BY:
Author
Plot Stamp:
2/14/2025 5:09:05 PM

ISSUE FOR PROPOSAL

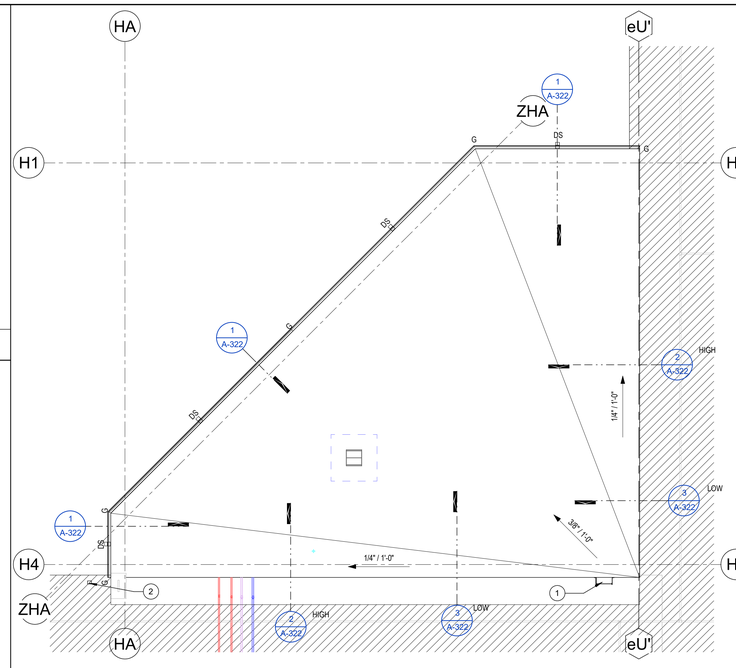
ROOF PLAN - COMPOSITE
A-301
FOR BLUEBEAM LABELING/OCR:



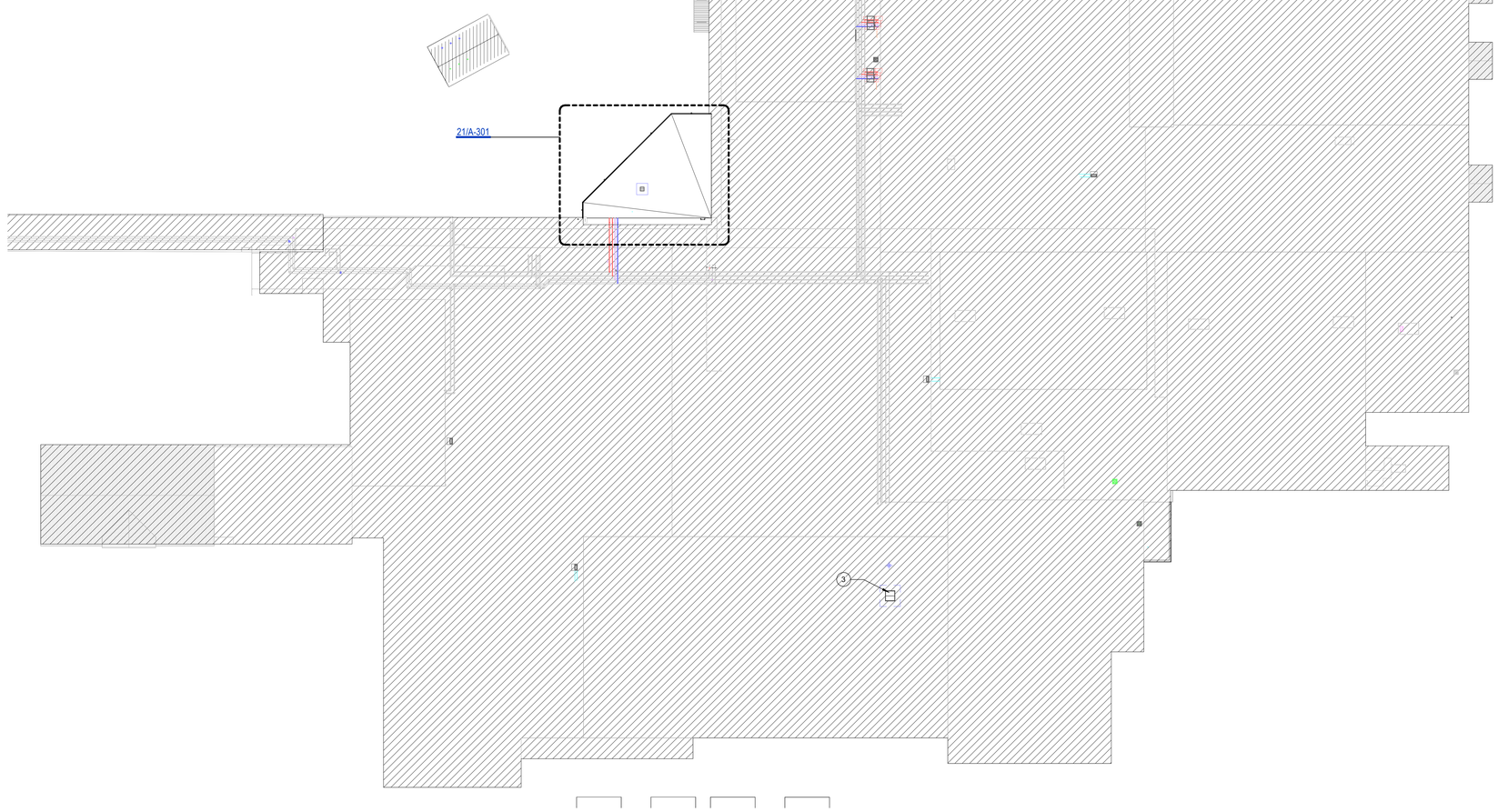
24 "T" CONNECTION EXPANSION JOINT
N.T.S.

1. ROOF ACCESS LADDER - RE: 16/A-322
2. DEMO EXISTING DOWNSPOUT AND PATCH GUTTER WITH NEW FLAT STOCK SHEET METAL SET IN BED OF SEALANT AND RIVETTED TO EXISTING GUTTER. RELOCATE DOWNSPOUT 4'-0" FROM NEW WALL. RE: 06/A-101H FOR EXACT LOCATION.
3. NEW ROOF PENETRATION. RE: MEP, RE: 7/A-322

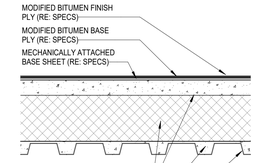
28 ROOFING - KEYNOTES
N.T.S.



21 ROOF PLAN - AREA H
1/8" = 1'-0"



06 ROOF PLAN COMPOSITE
1" = 30'-0"



25 ROOFING (MB) - NOMENCLATURE
N.T.S.

1. CONTRACTOR SHALL VISIT SITE TO ASCERTAIN EXACT EXISTING CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUEST FOR ADDITIONAL MONEY SHALL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING THE SITE VISIT BY THE CONTRACTOR, ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ACCEPTED MANUFACTURER'S PRINTED INSTRUCTIONS AND WARRANTY REQUIREMENTS.
2. DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN IN THESE CONSTRUCTION DOCUMENTS ARE FOR CONVEYANCE OF DESIGN INTENT ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL AND TYPE OF CONSTRUCTION OF EXISTING CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN AND CONFIRM.
3. INDICATED ROOF HEIGHTS ARE GENERAL IN NATURE.
4. REFER TO NOMENCLATURE FOR TYPE OF ROOF SYSTEM. AREAS ARE MARKED WITH DESIGNATED LETTER ON ROOF PLAN.
5. NOTE THAT THE DETAILS DRAWN ARE GENERIC IN NATURE AND ARE NOT NECESSARILY LOCATED AND KEYED TO THE ROOF PLANS.
6. REMOVE ALL ABANDONED EQUIPMENT IDENTIFIED ON SITE AND AS SHOWN OTHERWISE ON THESE DOCUMENTS.
7. ALL NEW CRICKETS AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISHED 1/4" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20" IN WIDTH.
8. REPLACE ROTTED AND / OR OTHERWISE DETERIORATED ROOF DECK MATERIALS (AS APPLICABLE) WITH LIKE MATERIAL AND THICKNESS.
9. REPLACE ROTTEN AND / OR OTHERWISE DETERIORATED WOOD NAILER MATERIAL WITH NEW LIKE MATERIAL AND THICKNESS.
10. PATCH EXISTING METAL ROOF DECK (AS APPLICABLE) FOR HOLES LESS THAN 10" WIDE BY ANCHORING 22 GA. STAINLESS STEEL SHEET METAL TO BOTTOM OF EXISTING METAL ROOF DECK AND ADDING NEW INSULATION TO MATCH THICKNESS. PATCH EXISTING METAL ROOF DECK FOR HOLES GREATER THAN 10" WIDE BY ANCHORING 22 GA. STAINLESS STEEL SHEET METAL TO BOTTOM OF EXISTING METAL ROOF DECK SPANNING FROM JOIST TO JOIST.
11. AS APPLICABLE, ALL HVAC AND / OR DX UNITS, ELECTRICAL TRANSFORMERS, ROOF TOP EQUIPMENT, ETC. THAT ARE ON SLEEPERS SHALL BE DISCONNECTED / REMOVED, RAISED, AND PLACED ON NEW CURBED PLATFORMS AS DETAILED AND REINSTALLED / RECONNECTED. ALL CURB MOUNTED HVAC UNITS, EQUIPMENT, ETC. SHALL HAVE A MINIMUM 10" CURB HEIGHT AND ARE TO BE RAISED AS REQUIRED.
12. WORK TO ANY UTILITY CONDUIT OR PIPE SHALL BE PERFORMED BY SPECIFIC LICENSED SUBCONTRACTORS SPECIALIZING IN HVAC, PLUMBING AND ELECTRICAL WORK. PERMITS AND INSPECTIONS ARE REQUIRED. REROUTE AND / OR MODIFY UTILITY CONDUIT OR PIPE AS REQUIRED TO BE INSTALLED AS DETAILED.
13. PROVIDE A "MERCURY" GAS LINE TEST (COORDINATE WITH OWNER AND ARCHITECT FOR WITNESS OF TEST). REPAIR ANY FOUND LEAKS AND RETEST AS REQUIRED.
14. UNLESS INDICATED OTHERWISE ON THE CONSTRUCTION DOCUMENTS, REPLACE AND RAISE ALL EXISTING EXPANSION JOINTS / AREA DIVIDERS / CURB MOUNTED EQUIPMENT / SKYLIGHTS (AS APPLICABLE) A MIN. 10" ABOVE ROOF DECK.
15. ALL SOIL STACK FLASHING SHALL BE A MIN. 10" ABOVE FINISHED ROOF SURFACE. COUPLE PVC PIPE ABOVE DECK AND COUPLE CAST IRON PIPE BELOW DECK.
16. ALL PIPING/ CONDUITS/ ETC. SHALL BE A MIN. 10" ABOVE ROOF SURFACE, NEW AND EXISTING. PROVIDE PORTABLE PIPE HANGERS WITH PROTECTION PADS AS SPECIFIED. RAISE EXISTING PIPING/ CONDUIT/ ETC. AS REQUIRED. MEP CONTRACTORS SHALL PROVIDE SUPPORTS FOR UTILITY LINES.
17. PROVIDE SHEET METAL HOODED (WITH METAL FACE CLOSURE) CAPS, WOOD CURB, BOX COVER AT ALL GAS AND WATER PIPE ROOF PENETRATIONS AS DETAILED. PROVIDE POSITIVE SLOPE AWAY FROM FACE COVER.
18. PROVIDE WALKWAY PROTECTION PADS AS SPECIFIED AROUND ALL ROOF HATCHES, HVAC ROOFTOP UNITS, DOORS THAT OPEN ONTO ROOF AND AT TOP AND BOTTOM OF ALL ROOF TOP ACCESS LOCATIONS.
19. INSTALL NEW SPLASH PAN AT ALL LOCATIONS WHERE ROOF DRAINAGE DISCHARGES ONTO ROOF AREA. INSTALL NEW SPLASH BLOCKS WHERE ROOF DRAINAGE DISCHARGES ON GROUND.
20. ISOLATE ALL HEAT PIPES / FLUES AS DETAILED AND RECOMMENDED AND OUTLINED IN THE NRCA MANUAL FOR HOT STACK FLASHING AND AS DETAILED.
21. ALL OUTSIDE AIR INTAKES SHALL BE COVERED TO ELIMINATE ODORS AND FUMES FROM ENTERING INTO THE BUILDING DURING CONSTRUCTION WORK.
22. AFTER SUBSTANTIAL COMPLETION, THE GENERAL CONTRACTOR SHALL EXAMINE AND CLEAN NEW DRAIN LINES AND NEW AND EXISTING (AS APPLICABLE) GUTTERS OF DEBRIS AND BLOCKAGE, FLUSH WITH WATER TO ENSURE THAT DRAINS AND GUTTERS FLOW FREELY.
23. OWNER WILL VERIFY PROPER OPERATION OF ALL ROOF TOP EQUIPMENT BEFORE AND AFTER THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL INOPERABLE EQUIPMENT PRIOR TO RELEASE OF RETAINAGE.
24. PRIOR TO COMMENCEMENT OF WORK, COORDINATE WALK OF ENTIRE ROOF WITH ROOFING MANUFACTURER'S TECHNICAL REPRESENTATIVE TO IDENTIFY AND LOCATE ALL AREAS OF HIGH SLOPE OR OTHER CONDITIONS WHICH MIGHT REQUIRE SPECIAL PROCEDURES FOR SYSTEM ATTACHMENT.
25. REFER TO MEP DRAWINGS FOR SIZE AND LOCATION OF DECK PENETRATIONS AND ROOF TOP EQUIPMENT.
26. REFER TO GENERAL DETAILS FOR TYPICAL SPLASH PAN, ROOF DRAIN AND OVERFLOW DRAIN DETAILS.
27. REPLACE ALL RUSTED AND / OR DETERIORATED EXISTING METAL VENT FLASHING AND FLUES.
28. GENERAL CONTRACTOR TO ENSURE ALL ROOFTOP PENETRATIONS (SOIL STACKS, VENTS, ETC.) ARE INSTALLED MIN. 4'-0" FROM OTHER DECK PENETRATIONS, RISE WALLS, AND ROOF EDGE. MECHANICAL EQUIPMENT TO BE LOCATED MIN. 10'-0" FROM PERIMETER EDGE AND NO CLOSER THAN 4'-0" FROM RISE WALLS, OR ANY OTHER ROOF PENETRATION.
29. LOCATE PERIMETER DRAINS MAX. 5'-0" FROM EDGE TYPICAL UNLESS SHOWN OTHERWISE. (GENERAL CONTRACTOR TO COORDINATE WITH ROOFING AND PLUMBING CONTRACTOR.)
30. THROUGH WALL BASE FLASHING MIN. HEIGHT 10" AND MAX. HEIGHT 20" FROM FINISH DECK. DO NOT STEP THROUGH WALL FLASHING CLOSER THAN 5'-0" FROM CORNERS.
31. GENERAL CONTRACTOR SHALL COORDINATE LOCATION AND ORIENTATION OF ROOF HATCH AND ACCESS LADDER.
32. GENERAL CONTRACTOR SHALL COORDINATE ALL TOP OF STEEL TO TOP OF BLOCKING AND SUBSTRATE BOARD DIMENSIONS IN FIELD PRIOR TO ORDERING MATERIALS. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR FAILURE TO COORDINATE THESE DIMENSIONS.
33. GENERAL CONTRACTOR SHALL VERIFY ROOF SLOPES WILL PROPERLY DRAIN AS SHOWN. TAPERED INSULATION HATCHING SHOWN IS NOT INTENDED TO ILLUSTRATE THE ENTIRE LIMITS OF TAPERED INSULATION. ROOF AREAS NOT SLOPED BY STRUCTURE SHALL BE SLOPED WITH TAPERED INSULATION TO ACHIEVE PROPER DRAINAGE.
34. PROVIDE ONE WAY MOISTURE VENTS AT ALL LIGHTWEIGHT CONCRETE OR GYPSUM OVER POUR AREAS AS RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER.
35. PAINT ALL EXISTING GAS PIPE TO REMAIN.
36. PROVIDE RETROFIT DRAIN KIT FOR EACH EXISTING ROOF DRAIN. RE: SPECS.
37. ALL ROOFING WORK SHALL OCCUR IN SUCH A MANNER AS NOT TO VOID ANY EXISTING ROOF WARRANTIES. CONTRACTOR TO CONTACT ROOFING MANUFACTURER PRIOR TO COMMENCING THE WORK. NO EXCEPTIONS.

7 GENERAL NOTES (EXISTING AND NEW)
N.T.S.

NEW ROOF DRAIN	GOOSE NECK VENT	EXHAUST AND SUPPLY FAN ON SINGLE CURB
EXIST. ROOF DRAIN	CURB MOUNTED AC	RIDGE LINE
OF OVERFLOW DRAINS	SPLASH BLOCK	EXISTING AREA TO REMAIN -NIC
FLANGE VENT	SPLASH PAN	NEW TAPERED INSULATION / CRICKET
PITCH PAN	A/C ON POSTS	NEW LT. WT. CONCRETE INSULATION/ CRICKET
VENT THROUGH ROOF	ROOF HATCH	A1 ROOF AREA DESIGNATION
WALL DRAIN	SKYLIGHTS	TAPERED LIGHT WEIGHT CONCRETE
CURB MOUNTED VENT	ANTENNA	DESIGNATES EXTENTS OF WORK IDENTIFIED BY KEYED NOTES
CURB MOUNTED INTAKE	SATELLITE DISH	AD AREA DIVIDER
ABANDONED CURB TO BE REMOVED / PATCHED	SCUPPER	EJ EXPANSION JOINT
A ABANDON EQUIP.	GUTTER	C CONDENSATE LINE
GUY WIRE	DOWNSPOUT	W WATER LINE
POWER VENT	WALL LADDER	E ELEC. LINE
HEATER VENT	SWING LADDER	G GAS LINE
BOILER VENT		
TURBINE VENT		
PB PIPE BOX		

1 ROOFING - LEGEND (DEMO/EXIST)
N.T.S.

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STRUCTURAL
KUBENA ENGINEERS
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MEP/T
LEAP
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RSC
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POOL/AQUATICS CONSULTANT NAME
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Arnold Middle School
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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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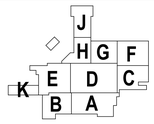

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
BRANDON D. GRAY 97540 REGISTERED ARCHITECT STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

ROOF PLAN - COMPOSITE

A-301

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Plot Stamp:
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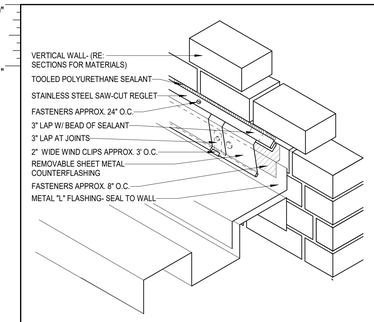
ROOF DETAILS

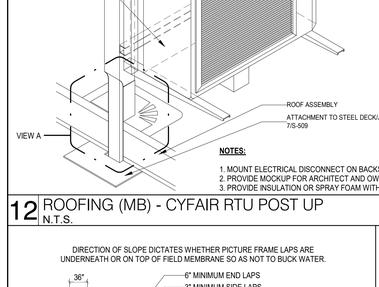
A-322

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



30 ROOFING (METAL) - AVADEK @ BRICK
N.T.S.



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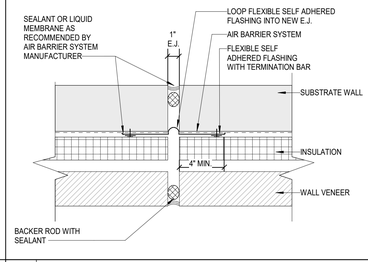
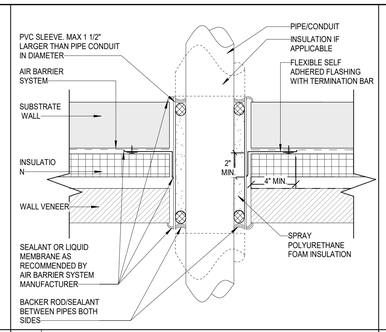


28 EXPANSION JOINT CONNECTION
N.T.S.



27 SLEEVE PIPE WALL PENETRATION
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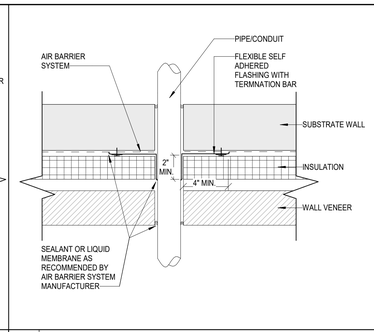

26 PIPE/CONDUIT WALL PENETRATION
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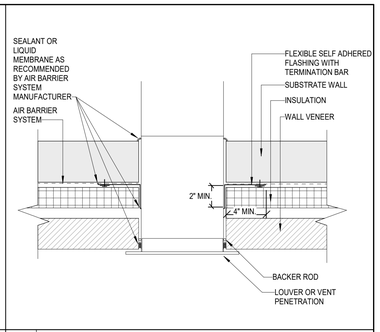

25 DUCT WALL PENETRATION
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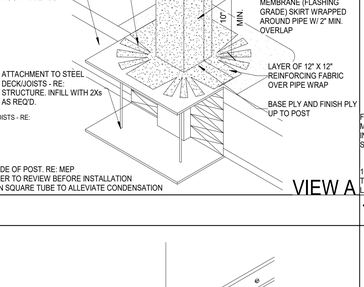
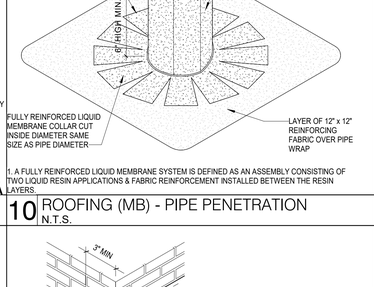


23 ROOFING - THREE SIDED HOOD @ WALL
N.T.S.



22 ROOFING - DOWNSPOUT PROTECTION
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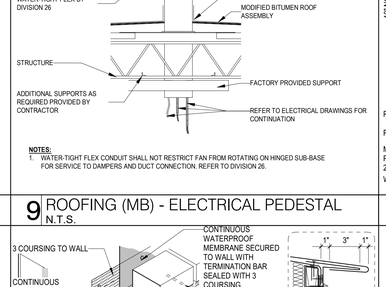
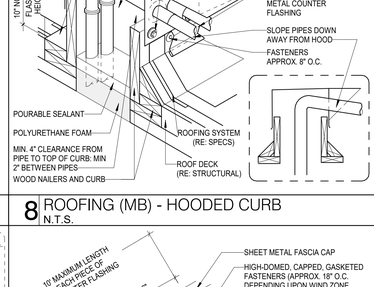


21 ROOFING - DOWNSPOUT TO BOOT
N.T.S.



20 ROOFING - DOWNSPOUT
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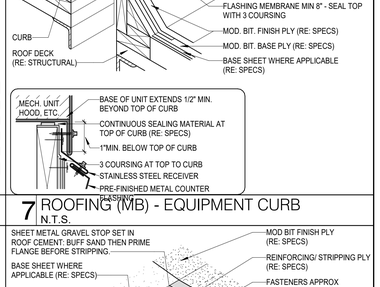

19 GUTTER JOINT AND SPLASH PANS
N.T.S.

18 ROOFING - PIPE SUPPORTS
N.T.S.

16 ROOFING - ROOF LADDER
N.T.S.

15 ROOFING - THRU-WALL TRAY
N.T.S.

14 ROOFING - THRU-WALL FLASHING
N.T.S.

13 ROOFING - WALK PADS
N.T.S.

NOTES:

1. MOUNT ELECTRICAL DISCONNECT ON BACKSIDE OF POST. RE: MEP
2. PROVIDE MOCKUP FOR ARCHITECT AND OWNER TO REVIEW BEFORE INSTALLATION
3. PROVIDE INSULATION OR SPRAY FOAM WITHIN SQUARE TUBE TO ALLEVIATE CONDENSATION

12 ROOFING (MB) - CYFAIR RTU POST UP
N.T.S.

1. A FULLY REINFORCED LIQUID MEMBRANE SYSTEM IS DEFINED AS AN ASSEMBLY CONSISTING OF TWO LIQUID RESIN APPLICATIONS & FABRIC REINFORCEMENT INSTALLED BETWEEN THE RESIN LAYERS.

10 ROOFING (MB) - PIPE PENETRATION
N.T.S.

REFER TO ELECTRICAL DRAWINGS AND DIVISION 26 SPECIFICATIONS FOR ELECTRICAL CHARACTERISTICS OF STARTER/DISCONNECT - DISCONNECT ONLY

NOTES:

1. WATER-TIGHT FLEX CONDUIT SHALL NOT RESTRICT FAN FROM ROTATING ON HINGED SUB-BASE FOR SERVICE TO DAMPERS AND DUCT CONNECTION. REFER TO DIVISION 26.

9 ROOFING (MB) - ELECTRICAL PEDESTAL
N.T.S.

8 ROOFING (MB) - HOODED CURB
N.T.S.

7 ROOFING (MB) - EQUIPMENT CURB
N.T.S.

6 ROOFING (MB) - PICTURE FRAME DETAIL
N.T.S.

NOTE: TYPICAL TO ALL RISE WALL TO LOW ROOF CORNERS

5 ROOFING - END WALL @ EJ
N.T.S.

4 ROOFING (MB) - END WALL
N.T.S.

3 ROOFING (MB) - BASE FLASHING @ EJ (HORI)
N.T.S.

2 ROOFING (MB) - RAISED EDGE
N.T.S.

NOTE: ALL PROJECT DETAILS SHOWN ARE FOR INFORMATION OF MINIMUM STANDARDS AND DISPLAY GENERIC CONDITIONS WITH RESPECT TO DECK, WALL AND STRUCTURE. REFER TO ARCHITECTURAL REFERENCED DETAILS FOR JOB SPECIFIC CONDITIONS.

1 ROOFING (MB) - ROOF EDGE W/GUTTER
N.T.S.

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Plot Stamp: 2/14/2025 8:36:04 AM

PBK

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TX Firm: BR 1608

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LANDSCAPE
EDDELAND GROUP
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STRUCTURAL
KUBENKA ENGINEERS
T: 713-840-7343
MEP/T
LEAF
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ACOUSTIC
ACENTECH
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FOOD SERVICE
JSH
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POOL/AQUATICS CONSULTANT NAME
T: 000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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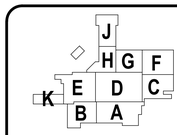
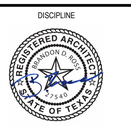


KEY PLAN — NORTH: PLAN TRUE

DISCIPLINE



01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ROOF DETAILS

A-322

ENLARGED RESTROOM PLANS

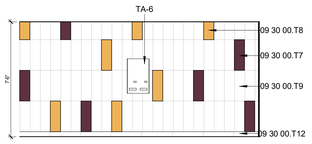
A-401

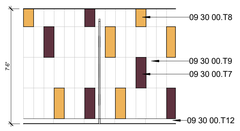
FOR BLUEBEAM LABELING:

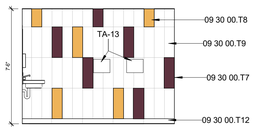
ISSUE FOR PROPOSAL

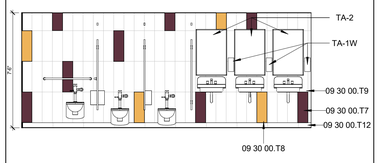
0"

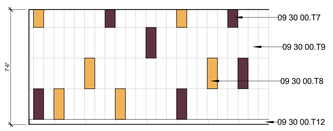
1"







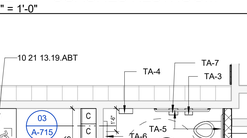




NUMBER	DESCRIPTION
09 30 00.T7	TILE TYPE 7 - CORRIDOR/WATER FOUNTAIN/SHOWER/RESTROOM
09 30 00.T8	TILE TYPE 8 - CORRIDOR/WATER FOUNTAIN/SHOWER/RESTROOM
09 30 00.T9	TILE TYPE 9 - WATER FOUNTAIN/SHOWER/RESTROOM
09 30 00.T12	TILE TYPE 12 -RESTROOM/SHOWER BASE
10 12 00.DCR	4" DEEP RECESSED DISPLAY CASE
10 21 13.19.ABT	ADA HDPE Bench Tops RE: 07/A-715
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-2	LAVATORY MIRROR, TYPICAL
TA-3	TOILET PAPER DISPENSER, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL
TA-5	GRAB BAR, AT WHEELCHAIR-ACCESSIBLE WATER CLOSET, TYPICAL
TA-6	SANITARY NAPKIN/TAMPON VENDOR, TYPICAL
TA-7	SANITARY NAPKIN DISPOSAL, TYPICAL
TA-9	GRAB BARS, ACCESSIBLE SHOWER, TYPICAL
TA-10A	FOLDING BENCH, ADULT HEIGHT
TA-12	SHOWER CURTAINS, RODS, AND HOOKS, TYPICAL
TA-13	ELECTRIC HAND DRYER, TYPICAL

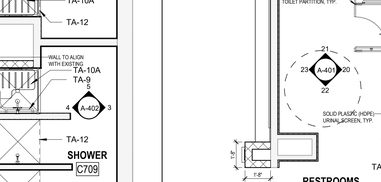
KEYNOTE LEGEND

28 WOMENS RESTROOM TYP - NORTH
1/4" = 1'-0"



27 WOMENS RESTROOM TYP - EAST
1/4" = 1'-0"

26 WOMENS RESTROOM - WEST
1/4" = 1'-0"



24 WOMENS RESTROOM TYP - SOUTH
1/4" = 1'-0"

23 BOYS RESTROOM - EAST
1/4" = 1'-0"

25 KEYNOTES

22 BOYS RESTROOM - SOUTH
1/4" = 1'-0"

21 BOYS RESTROOM - NORTH
1/4" = 1'-0"

20 BOYS RESTROOM TYP
1/4" = 1'-0"

19 A622B WOMEN'S RR - NORTH
1/4" = 1'-0"

17 A622B WOMEN'S RR - SOUTH
1/4" = 1'-0"

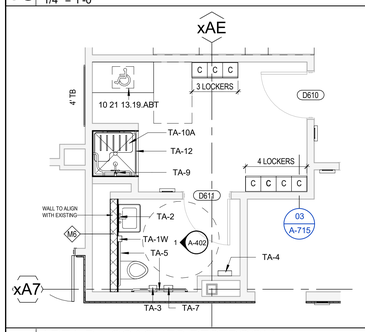
18 A622B WOMEN'S RR - WEST
1/4" = 1'-0"

16 A622A MEN'S RR SOUTH
1/4" = 1'-0"

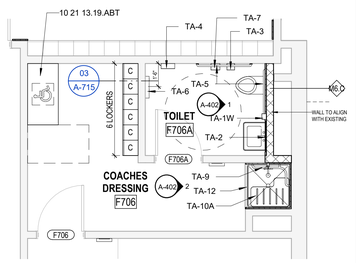
15 A622A MEN'S RR - EAST
1/4" = 1'-0"

14 A622A MEN'S RR - NORTH
1/4" = 1'-0"

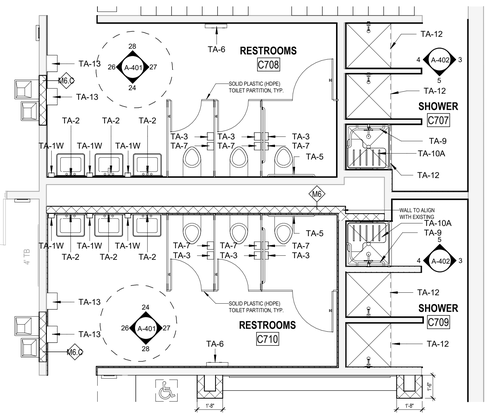
13 A622A MEN'S RR - WEST
1/4" = 1'-0"



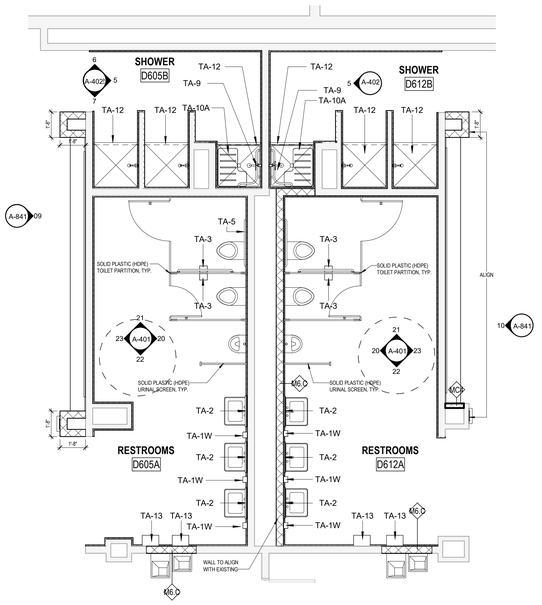
12 AREA D - COACHES RESTROOM
1/4" = 1'-0"



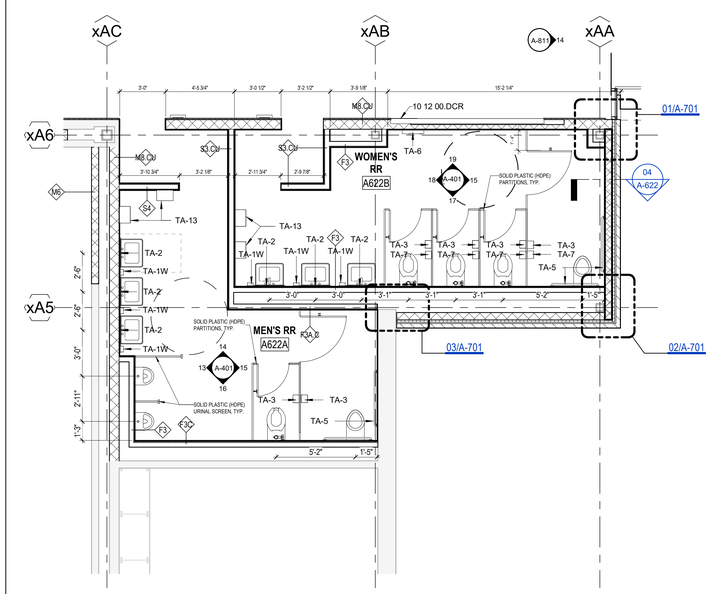
06 AREA F - COACHES RESTROOMS
1/4" = 1'-0"



05 AREA C - GIRLS P.E./GIRLS ATHLETIC RESTROOMS
1/4" = 1'-0"



03 AREA D - BOYS P.E./BOYS ATHLETIC RESTROOMS
1/4" = 1'-0"



02 ENLARGED PLAN - GYM RESTROOMS
1/4" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220022_CFISD_Arnold MS.rvt

CHECKED BY:
Checker
DRAWN BY:
Joseph Garavito
Plot Stamp:
2/14/2025 12:12:05 PM

PBK

ARCHITECT PBK Architects, Inc.
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713-961-4571 F
TX Firm: BR 1608

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LANDSCAPE
EDDELEND GROUP
T 713-840-1999

STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343

MEP/T
LEAP
T 713-540-3300

ACOUSTIC
SSA
T 512-476-3664

FOOD SERVICE
RSI
T 281-556-2223

POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TEL GE RD,
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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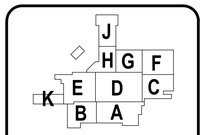

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ENLARGED RESTROOM PLANS

A-401

ISSUE FOR PROPOSAL

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CHECKED BY:
Checker
DRAWN BY:
Joseph Garavito
Plot Stamp:
2/14/2025 12:14:02 PM

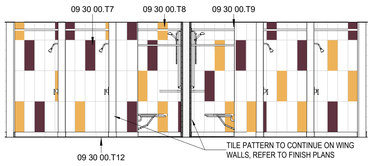
0"
1"

ENLARGED RESTROOM PLANS
A-402
FOR BLUEBEAM LABELING/OCR:

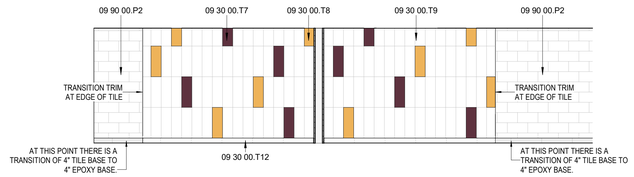
KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 30 00.T7	TILE TYPE 7 - CORRIDOR/WATER FOUNTAIN/SHOWER/RESTROOM
09 30 00.T8	TILE TYPE 8 - CORRIDOR/WATER FOUNTAIN/SHOWER/RESTROOM
09 30 00.T9	TILE TYPE 9 - WATER FOUNTAIN/SHOWER/RESTROOM
09 30 00.T12	TILE TYPE 12 -RESTROOM/SHOWER BASE
09 67 00.FF1	FLUID-APPLIED, EPOXY RESIN FLOORING SYSTEM
09 90 00.P2	PAINT TYPE 2 - ACCENT (MAROON)
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-2	LAVATORY MIRROR, TYPICAL
TA-5	GRAB BAR, AT WHEELCHAIR-ACCESSIBLE WATER CLOSET, TYPICAL

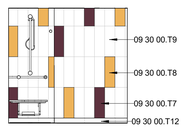
25 KEYNOTES



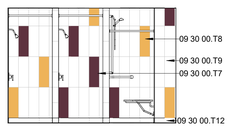
7 D605B/D612B SHOWER - SOUTH INTERIOR ELEVATION
1/4" = 1'-0"



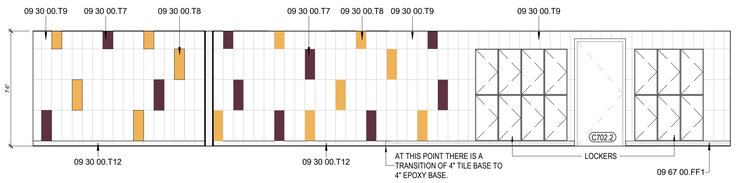
6 D605B/D612B SHOWER - NORTH ELEVATION
1/4" = 1'-0"



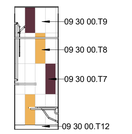
5 C709 SHOWER - NORTH INTERIOR ELEVATION
1/4" = 1'-0"



4 C709 SHOWER - WEST INTERIOR ELEVATION
1/4" = 1'-0"

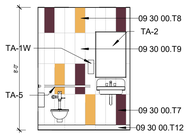


3 C709 SHOWER - EAST INTERIOR ELEVATION
1/4" = 1'-0"



TILE PATTERN WRAPS ALL ADJACENT WALLS WITHIN SHOWER

2 TYP SHOWER
1/4" = 1'-0"



1 F706A - TOILET
1/4" = 1'-0"

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SSA
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FOOD SERVICE
SSA
T 281-256-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

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CYPRESS, TX 77429
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CYPRESS FAIRBANKS
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KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

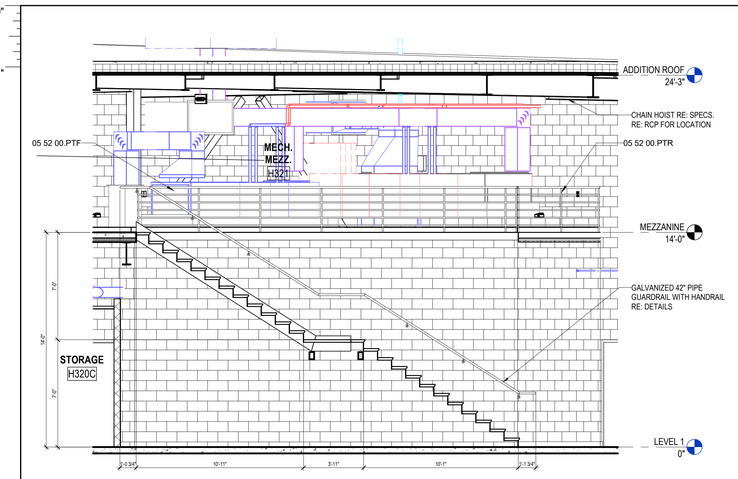
ISSUE FOR PROPOSAL

BUILDING NUMBER

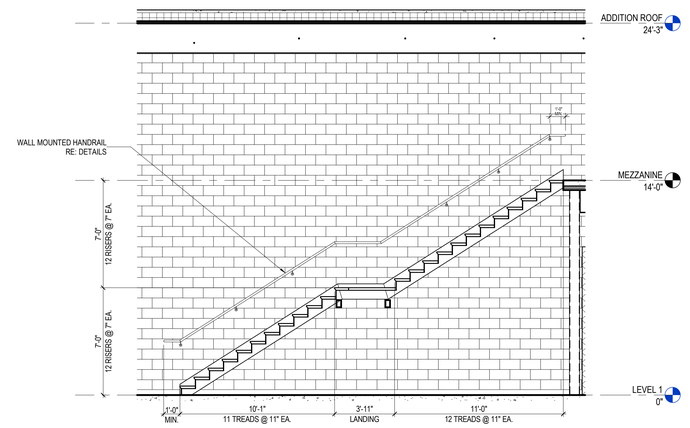
ENLARGED RESTROOM PLANS

A-402

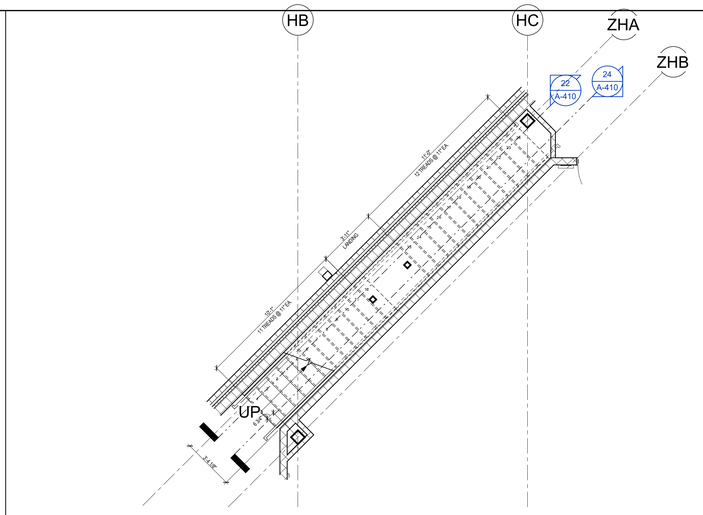
ISSUE FOR PROPOSAL



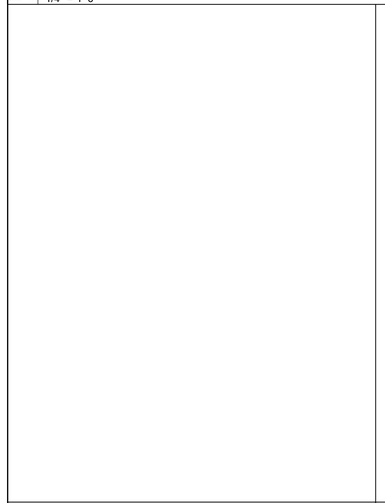
24 H321 MECHANICAL ROOM - STAIR SECTION 2
1/4" = 1'-0"



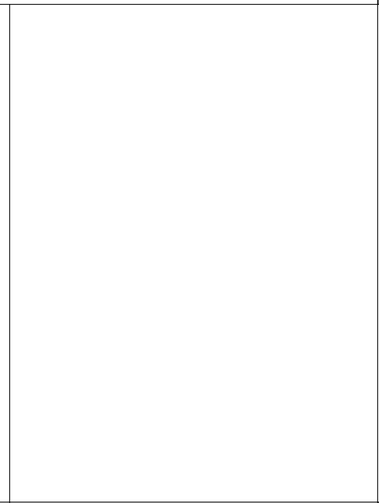
22 H321 MECHANICAL ROOM - STAIR SECTION 1
1/4" = 1'-0"



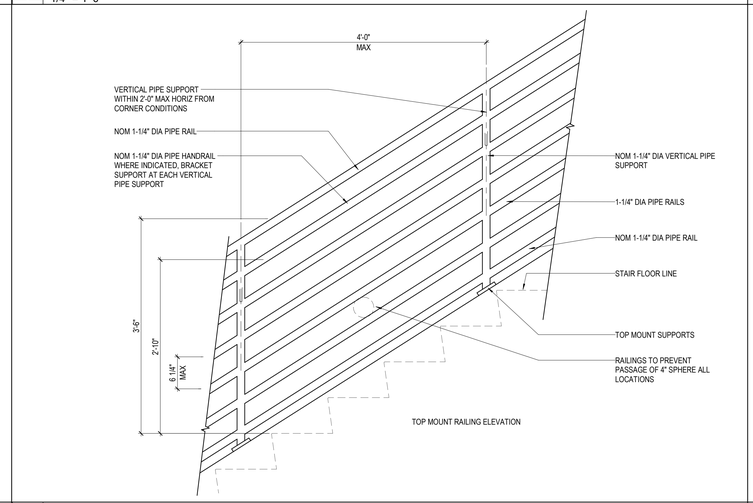
20 ENLARGED STAIR PLAN TO MECHANICAL ROOM
1/4" = 1'-0"



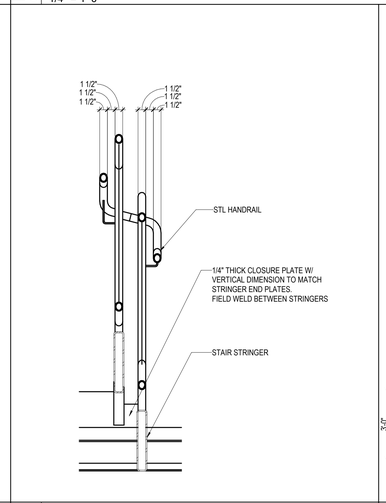
06 STAIR SOFFIT DTL - AT LANDING
1 1/2" = 1'-0"



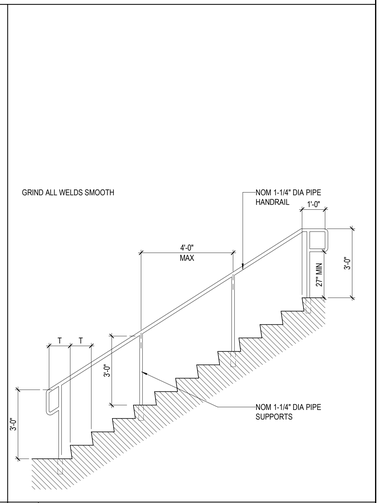
05 STAIR SOFFIT DETAIL
1 1/2" = 1'-0"



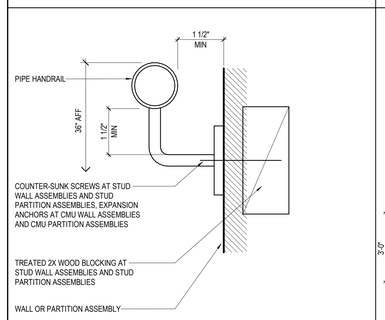
16 RAILING PIPE HANDRAIL DETAIL TYP.
1" = 1'-0"



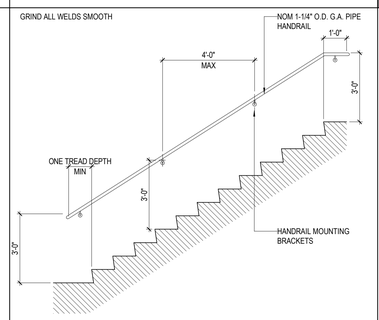
14 STAIR HANDRAIL DETAIL
1" = 1'-0"



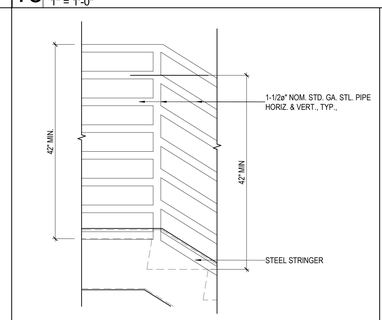
13 RAILING FLOOR MOUNTED TYP.
3/8" = 1'-0"



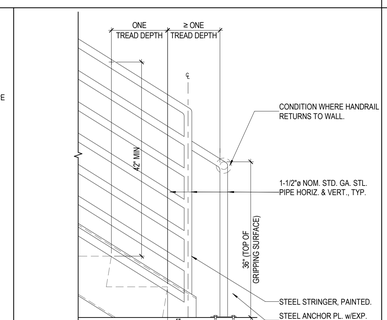
12 RAILING SECTION TYP.
6" = 1'-0"



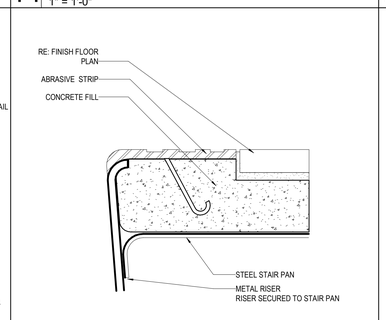
11 RAILING WALL MOUNTED TYP.
3/8" = 1'-0"



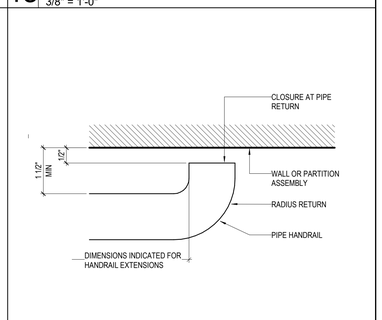
10 STAIR DETAIL - AT INTERMEDIATE LANDING
1" = 1'-0"



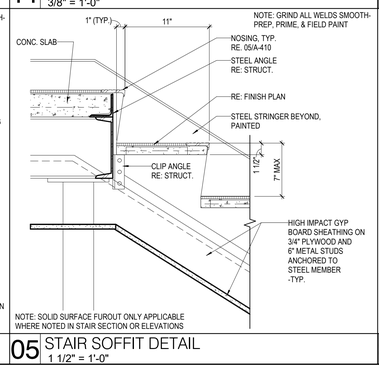
09 STAIR DETAIL - BOTTOM HANDRAIL
1" = 1'-0"



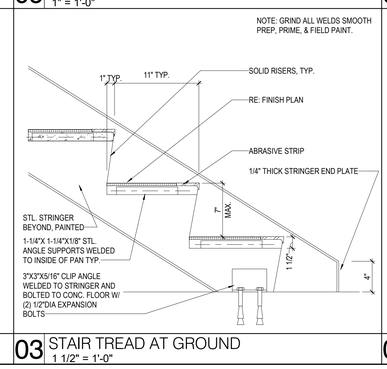
08 STAIR NOSE DETAIL TYP.
12" = 1'-0"



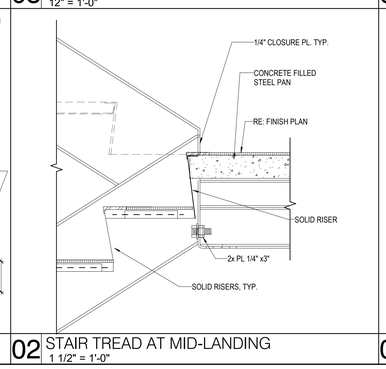
07 RAILING PLAN TYP.
6" = 1'-0"



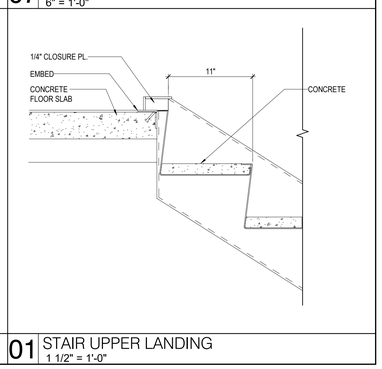
04 STAIR STRINGER WITH SOFFIT TYP.
1 1/2" = 1'-0"



03 STAIR TREAD AT GROUND
1 1/2" = 1'-0"



02 STAIR TREAD AT MID-LANDING
1 1/2" = 1'-0"



01 STAIR UPPER LANDING
1 1/2" = 1'-0"

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TX Firm: BR 1608
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STRUCTURAL
KIRKSEY ENGINEERS
T 713-840-7343
MEP/T
LEAP
T 713-540-3300
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RSA
T 512-476-3654
FOOD SERVICE
RSA
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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

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INDEPENDENT SCHOOL DISTRICT
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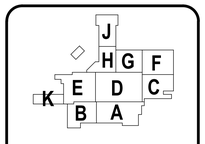

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

ENLARGED STAIR PLAN & DETAILS

A-410

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Joseph Garavito
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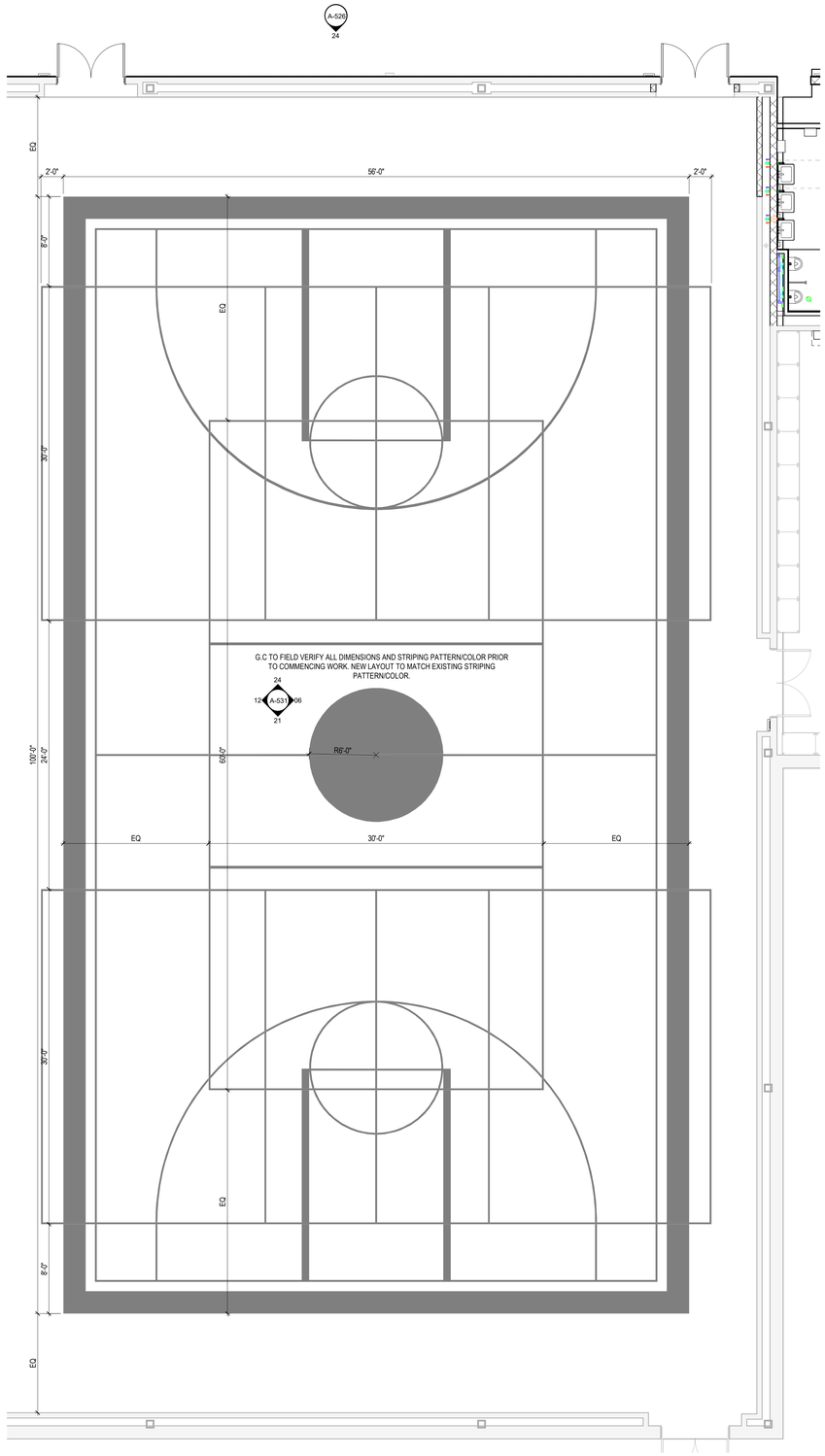
ENLARGED PLAN

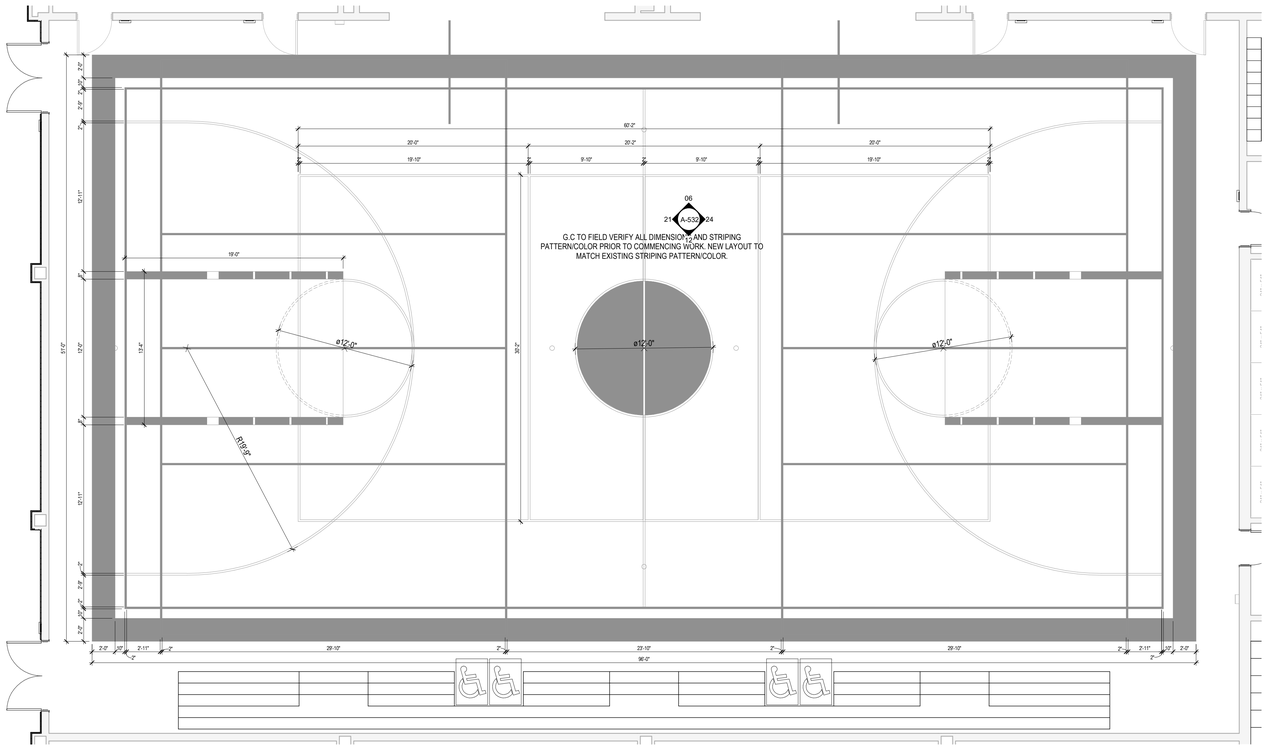
A-411

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



06 ENLARGED STRIPING PLAN
3/16" = 1'-0"



03 ENLARGED STRIPING PLAN - AUXILIARY GYM
3/16" = 1'-0"

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KUBENA ENGINEERS
T 713-942-7343
MEPT
LEAP
T 713-340-3300
ACOUSTIC
T 512-476-3664
FOOD SERVICE
T 281-356-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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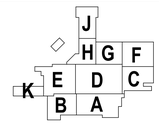

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ENLARGED PLAN

A-411

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EXTERIOR ELEVATIONS

A-501

FOR BLUEBEAM LABELING/OCR:

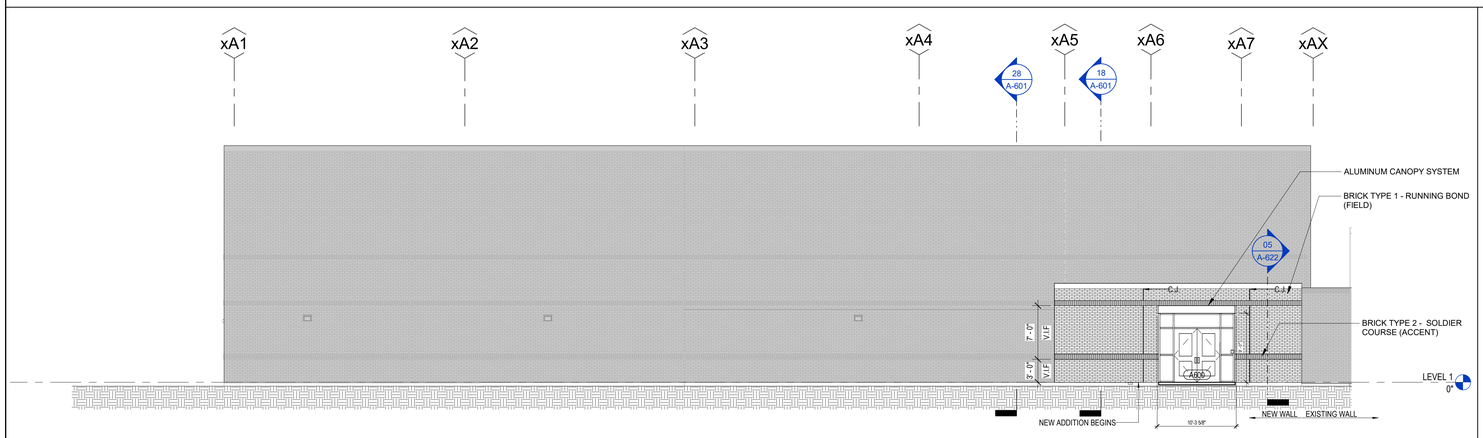
0"

1"

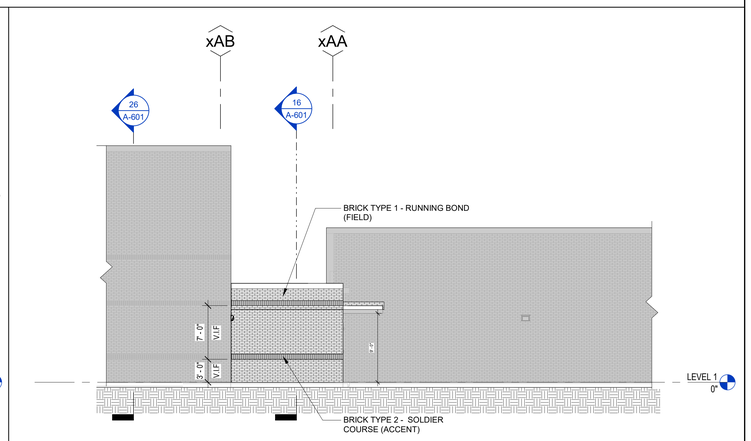
BRICK # 1 - 04 20 00.BK1
SIZE: 8" MODULAR
COLOR: 274 MISSION PINK, VELOUR TEXTURE

BRICK # 2 - 04 20 00.BK2
SIZE:8" MODULAR
COLOR: 186 DOESKIN, VELOUR TEXTURE

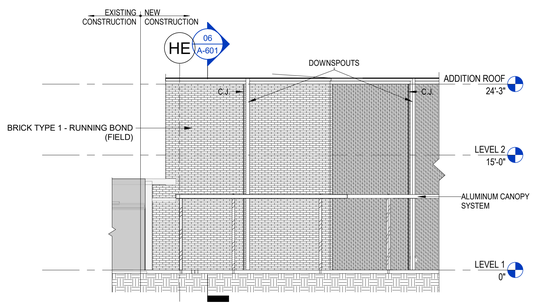
EXTERIOR MATERIALS
1/8" = 1'-0"



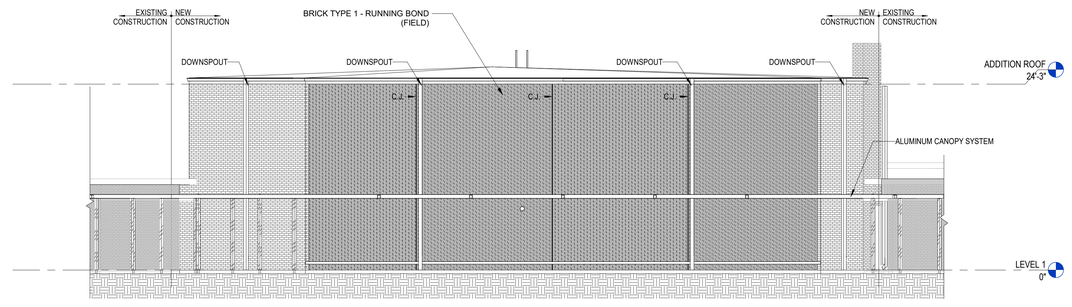
12 RESTROOM ADDITION - EAST
1/8" = 1'-0"



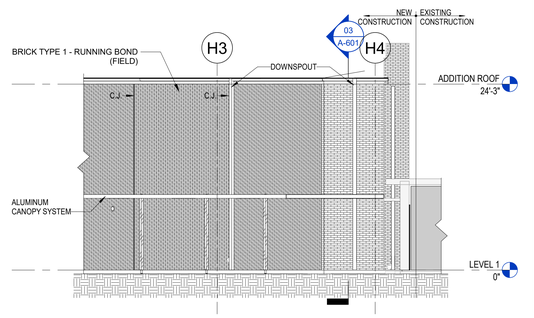
08 RESTROOM ADDITION - SOUTH
1/8" = 1'-0"



06 ORCHESTRA ADDITION - NORTH
1/8" = 1'-0"



04 ORCHESTRA ADDITION
1/8" = 1'-0"



01 ORCHESTRA ADDITION - WEST
1/8" = 1'-0"

ISSUE FOR PROPOSAL

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CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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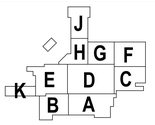

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

EXTERIOR ELEVATIONS

A-501

INTERIOR ELEVATIONS

A-521

FOR BLUEBEAM LABELING:

0"

1"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02 41 00.R2	REINSTALL EXISTING INSTRUMENT STORAGE LOCKERS FROM OLD ENSEMBLE ROOM AND NEW BASE AT SHOWN LOCATION.
09 30 00.T3	TILE TYPE 3 - CAFETERIA
09 30 00.T5	TILE TYPE 5 - CAFETERIA/RESTROOM
09 30 00.T7	TILE TYPE 7 - CORRIDOR/WATER FOUNTAIN/SHOWER/RESTROOM
09 30 00.T11	TILE TYPE 11 -CORRIDOR BASE
09 30 00.T12	TILE TYPE 12 -RESTROOM/SHOWER BASE
09 65 13.RBS	RESILIENT BASE AS SCHEDULED
09 84 00.ARC3	ACOUSTIC ROOM COMPONENT TYPE 1 -CAFETERIA AND FINE ARTS; FABRIC-FACED ABOVE 7'-0" A.F.F.
09 90 00.P1	PAINT TYPE 1 - FIELD
12 36 00.QRC2	NATURAL QUARTZ-WINDOW SILLS/JAMB
ARC1	
ARC2	
ARC3	

09 84 00.ARC1 -

09 84 00.ARC2 -

09 84 00.ARC3 -

ACOUSTICAL PANEL LEGEND
1/8" = 1'-0"

NOTE: ALL ACOUSTICAL WALL PANELS IN CAFTERIA TO BE 2" THICK.

TYPICAL ACOUSTICAL WALL PANEL PATTERN AT CAFETERIA

09 90 00.P1 09 90 00.P1 OPEN BEYOND

09 30 00.T3 09 30 00.T11 09 30 00.T12 09 30 00.T5 09 30 00.T3 09 30 00.T12 09 30 00.T5 09 30 00.T11 09 30 00.T3

15 J301 CAFETERIA - NORTH INTERIOR ELEVATION
1/4" = 1'-0"

09 84 00.ARC3 A915

09 65 13.RBS

14 A915 ENSEMBLE - NORTH
1/4" = 1'-0"

09 84 00.ARC3 09 84 00.ARC3

09 65 13.RBS

13 A915 ENSEMBLE - SOUTH
1/4" = 1'-0"

NOTE: QUARTZ AT WINDOW JAMB AND SILL.

NOTE: ALL ACOUSTICAL WALL PANELS IN CAFTERIA TO BE 2" THICK.

TYPICAL ACOUSTICAL WALL PANEL PATTERN AT CAFETERIA

09 90 00.P1 09 90 00.P1 12 36 00.QRC2 12 36 00.QRC2 12 36 00.QRC2 12 36 00.QRC2 12 36 00.QRC2 12 36 00.QRC2

09 30 00.T11 09 30 00.T3 09 30 00.T5 09 30 00.T12 09 30 00.T5 09 30 00.T12 09 30 00.T3 09 30 00.T11 09 30 00.T5 09 30 00.T12 09 30 00.T5 09 30 00.T12 09 30 00.T3

12 J301 CAFETERIA - EAST INTERIOR ELEVATION
1/4" = 1'-0"

NOTE: WALL TILE TO RETURN AT WINDOW.

NOTE: ALL ACOUSTICAL WALL PANELS IN CAFTERIA TO BE 2" THICK.

TYPICAL ACOUSTICAL WALL PANEL PATTERN AT CAFETERIA

EXISTING DRINKING FOUNTAINS

09 90 00.P1 09 90 00.P1

09 30 00.T3 09 30 00.T11 09 30 00.T5 09 30 00.T12 09 30 00.T3 09 30 00.T11 09 30 00.T5 09 30 00.T12 09 30 00.T5 09 30 00.T12 09 30 00.T5 09 30 00.T11 09 30 00.T7

09 J301 CAFETERIA - INTERIOR ELEVATION - TYP. ACOUSTICAL PANELS
1/4" = 1'-0"

09 84 00.ARC3

09 65 13.RBS

11 H305B ENSEMBLE - EAST
1/4" = 1'-0"

09 84 00.ARC3 A915B

09 65 13.RBS

10 H305B ENSEMBLE - WEST
1/4" = 1'-0"

09 84 00.ARC3

09 65 13.RBS

08 PRACTICE H304F - EAST
1/4" = 1'-0"

09 84 00.ARC3 09 84 00.ARC3

09 65 13.RBS

07 PRACTICE H304F - WEST
1/4" = 1'-0"

09 84 00.ARC3

09 65 13.RBS

06 PRACTICE H304G -EAST
1/4" = 1'-0"

09 84 00.ARC3

09 65 13.RBS

05 PRACTICE H304G - WEST
1/4" = 1'-0"

NOTE: ALL UPPER ACCOUSTICAL PANELS (09 84 00.ARC1) TO BE 4" THICK. ALL LOWER ACCOUSTICAL PANELS (09 84 00.ARC2) TO BE 2" THICK.

09 65 13.RBS

04 H305 REHEARSAL HALL - WEST
1/4" = 1'-0"

NOTE: ALL UPPER ACCOUSTICAL PANELS (09 84 00.ARC1) TO BE 4" THICK. ALL LOWER ACCOUSTICAL PANELS (09 84 00.ARC2) TO BE 2" THICK.

09 65 13.RBS

03 H305 REHEARSAL HALL - NORTH
1/4" = 1'-0"

NOTE: ALL UPPER ACCOUSTICAL PANELS (09 84 00.ARC1) TO BE 4" THICK. ALL LOWER ACCOUSTICAL PANELS (09 84 00.ARC2) TO BE 2" THICK.

09 65 13.RBS

02 H305 REHEARSAL HALL - EAST
1/4" = 1'-0"

NOTE: ALL UPPER ACCOUSTICAL PANELS (09 84 00.ARC1) TO BE 4" THICK.

09 65 13.RBS 02 41 00.R2

01 H305 REHEARSAL HALL - SOUTH
1/4" = 1'-0"

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MEP/T
LEAF
T 713-340-3300
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T 281-356-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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J H G F E D C K B A

KEY PLAN

NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT BRANDON D. KOEP 27149 STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE 02/17/2025

PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATIONS

A-521

INTERIOR ELEVATIONS

A-522

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYNOTE LEGEND

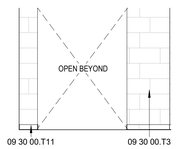
NUMBER	DESCRIPTION
02 41 00.R2	REINSTALL EXISTING INSTRUMENT STORAGE LOCKERS FROM OLD ENSEMBLE ROOM AND NEW BASE AT SHOWN LOCATION.
09 30 00.T3	TILE TYPE 3 - CAFETERIA
09 30 00.T11	TILE TYPE 11 -CORRIDOR BASE
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
09 65 13.RBS	RESILIENT BASE AS SCHEDULED
09 84 00.ARC3	ACOUSTIC ROOM COMPONENT TYPE 1 -CAFETERIA AND FINE ARTS; FABRIC-FACED ABOVE 7'-0" A.F.F.
ARC1	
ARC3	

09 84 00.ARC1 -

09 84 00.ARC2 -

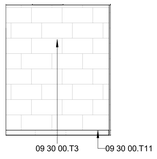
09 84 00.ARC3 -

ACOUSTICAL PANEL LEGEND
1/8" = 1'-0"

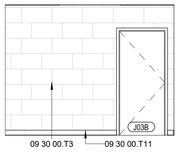


18 J310 VEST - SOUTH INTERIOR ELEVATION
1/4" = 1'-0"

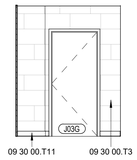
17 STAGE TILE ELEVATION - AREA J
1/4" = 1'-0"



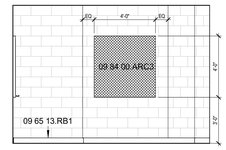
16 J310 VEST. - EAST INTERIOR ELEVATION
1/4" = 1'-0"



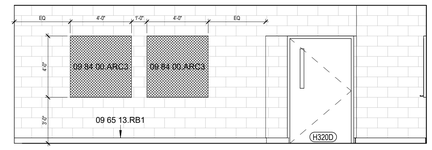
15 J310 VEST. - NORTH INTERIOR ELEVATION
1/4" = 1'-0"



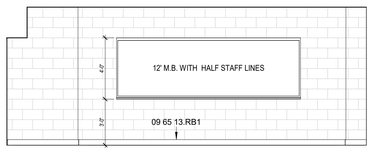
13 J310 VEST. - WEST INTERIOR ELEVATIONS
1/4" = 1'-0"



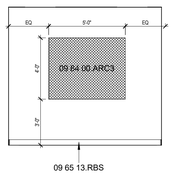
12 H320D ENSEMBLE ADDITION - WEST
1/4" = 1'-0"



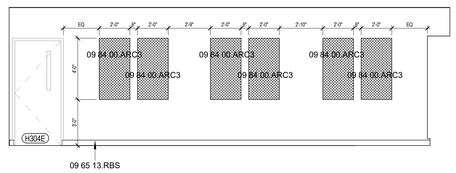
11 H320D ENSEMBLE ADDITION - EAST
1/4" = 1'-0"



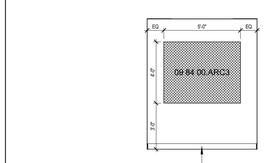
10 H320D ENSEMBLE ADDITION - SOUTH
1/4" = 1'-0"



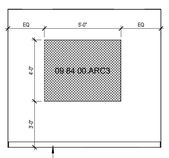
09 H304D PRACTICE - WEST
1/4" = 1'-0"



08 H304E ENSEMBLE - SOUTH
1/4" = 1'-0"



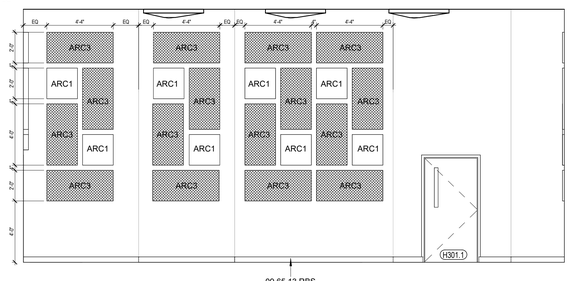
07 H304B PRACTICE - NORTH
1/4" = 1'-0"



06 H304D PRACTICE- EAST
1/4" = 1'-0"

NOTE: ALL PANELS INSTALLED **HORIZONTAL** ON TOP AND BOTTOM ROWS (ARC3) TO BE 2" THICK.

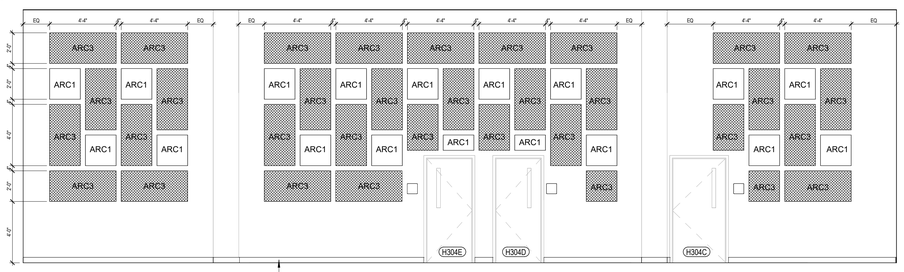
ALL OTHER ACOUSTICAL PANELS TO BE (ARC1 AND ARC3) 4" THICK.



05 BAND H304 - WEST
1/4" = 1'-0"

NOTE: ALL PANELS INSTALLED **HORIZONTAL** ON TOP AND BOTTOM ROWS (ARC3) TO BE 2" THICK.

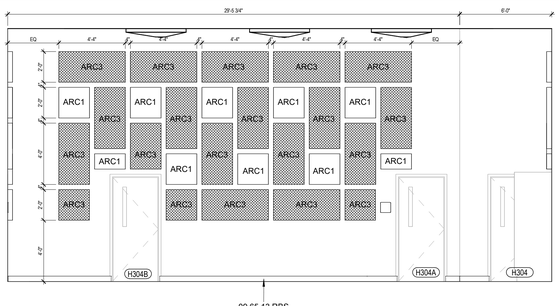
ALL OTHER ACOUSTICAL PANELS TO BE (ARC1 AND ARC3) 4" THICK.



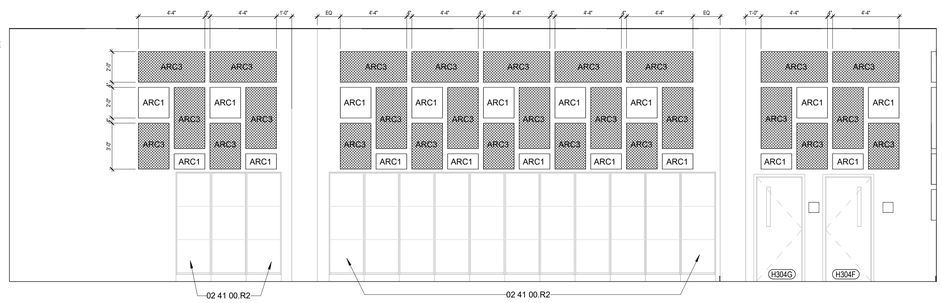
04 BAND H304 - NORTH
1/4" = 1'-0"

NOTE: ALL PANELS INSTALLED **HORIZONTAL** ON TOP AND BOTTOM ROWS (ARC3) TO BE 2" THICK.

ALL OTHER ACOUSTICAL PANELS TO BE (ARC1 AND ARC3) 4" THICK.



03 H304B PRACTICE - SOUTH
1/4" = 1'-0"



02 BAND H304 - EAST
1/4" = 1'-0"

01 BAND H304 - SOUTH
1/4" = 1'-0"

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713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

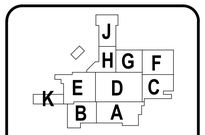
CIVIL
BROOKS & SPARKS
T 281-478-5998
LANDSCAPE
EDGELAND GROUP
T 713-802-1000
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEP/T
LEAP
T 713-540-3320
ACOUSTIC
SHEN
T 512-476-3654
FOOD SERVICE
SSD
T 281-256-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TEL GF RD.
CYPRESS, TX 77429

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATIONS

A-522

INTERIOR ELEVATIONS

A-523

FOR BLUEBEAM LABELING:

0"

1"

KEYNOTE LEGEND

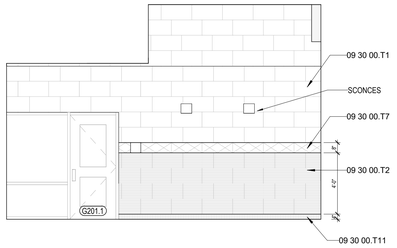
NUMBER	DESCRIPTION
09 30 00.T1	TILE TYPE 1 - CORRIDOR
09 30 00.T2	TILE TYPE 2 - CORRIDOR
09 30 00.T3	TILE TYPE 3 - CAFETERIA
09 30 00.T7	TILE TYPE 7 - CORRIDOR/WATER FOUNTAIN/SHOWER/RESTROOM
09 30 00.T11	TILE TYPE 11 -CORRIDOR BASE
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
09 84 00.ARC3	ACOUSTIC ROOM COMPONENT TYPE 1 -CAFETERIA AND FINE ARTS; FABRIC-FACED ABOVE 7'-0" A.F.F.
12 35 83.MSC	MUSICAL INSTRUMENT STORAGE CABINET
ACR3	
ARC1	
ARC3	

09 84 00.ARC1 -

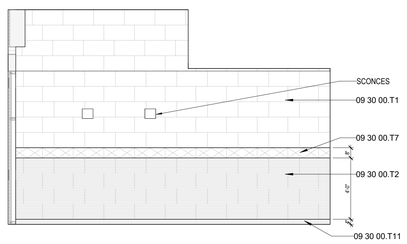
09 84 00.ARC2 -

09 84 00.ARC3 -

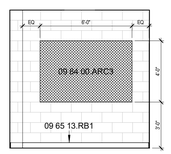
ACOUSTICAL PANEL LEGEND
1/8" = 1'-0"



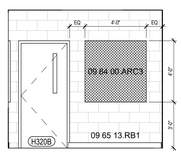
17 RECEPTION VESTIBLE - WEST
1/4" = 1'-0"



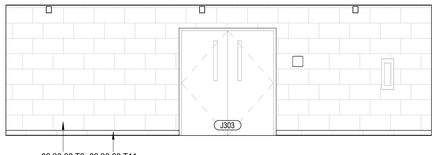
18 RECEPTION VESTIBLE - EAST
1/4" = 1'-0"



12 H320B PRACTICE - EAST
1/4" = 1'-0"



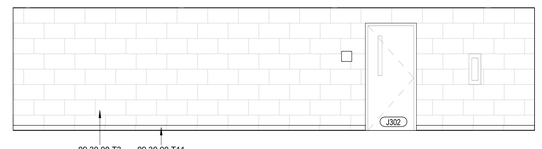
11 H320B PRACTICE - SOUTH
1/4" = 1'-0"



2 J304 CORRIDOR - WEST INTERIOR ELEVATION
1/4" = 1'-0"

NOTE: ALL PANELS INSTALLED **HORIZONTAL** ON TOP AND BOTTOM ROWS (ARC3) TO BE 2" THICK.

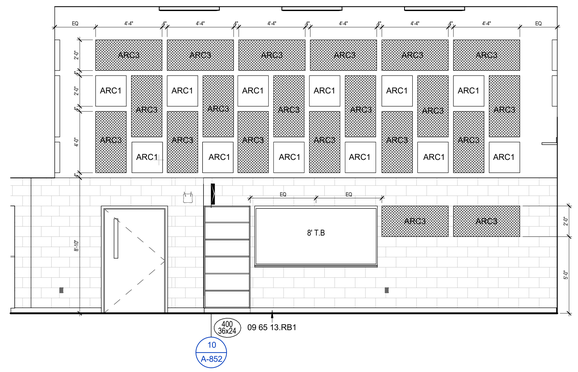
ALL OTHER ACOUSTICAL PANELS TO BE (ARC1 AND ARC3) 4" THICK.



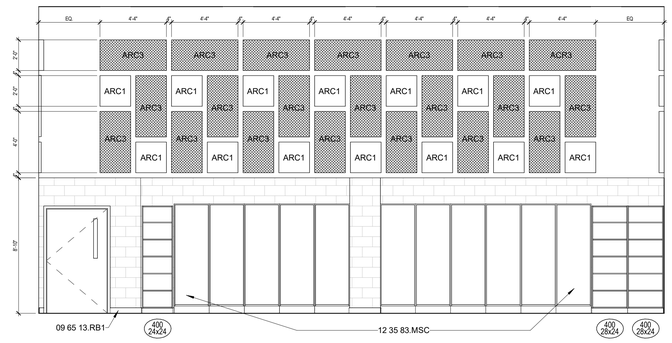
1 J305 CORRIDOR - EAST INTERIOR ELEVATION
1/4" = 1'-0"

NOTE: ALL PANELS INSTALLED **HORIZONTAL** ON TOP AND BOTTOM ROWS (ARC3) TO BE 2" THICK.

ALL OTHER ACOUSTICAL PANELS TO BE (ARC1 AND ARC3) 4" THICK.



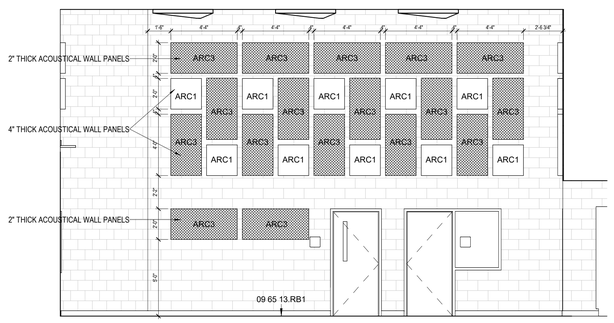
22 H320 NEW ORCHESTRA - SOUTH
1/4" = 1'-0"



20 H320 NEW ORCHESTRA - EAST
1/4" = 1'-0"

NOTE: ALL PANELS INSTALLED **HORIZONTAL** ON TOP AND BOTTOM ROWS (ARC3) TO BE 2" THICK.

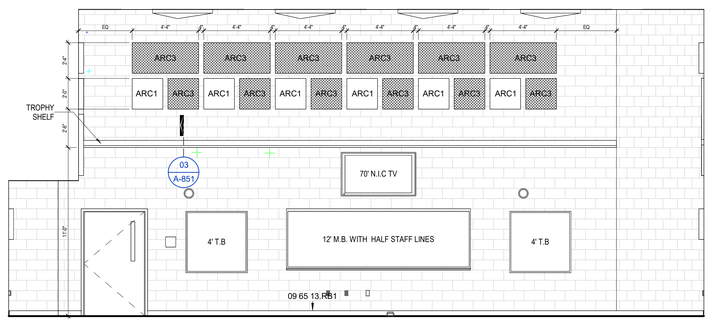
ALL OTHER ACOUSTICAL PANELS TO BE (ARC1 AND ARC3) 4" THICK.



10 H320 NEW ORCHESTRA - NORTH
1/4" = 1'-0"

NOTE: ALL PANELS INSTALLED **HORIZONTAL** ON TOP AND BOTTOM ROWS (ARC3) TO BE 2" THICK.

ALL OTHER ACOUSTICAL PANELS TO BE (ARC1 AND ARC3) 4" THICK.



14 H320 NEW ORCHESTRA - WEST
1/4" = 1'-0"

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T 713-340-3300
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CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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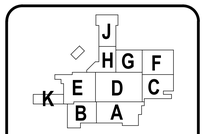

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATIONS

A-523

ISSUE FOR PROPOSAL

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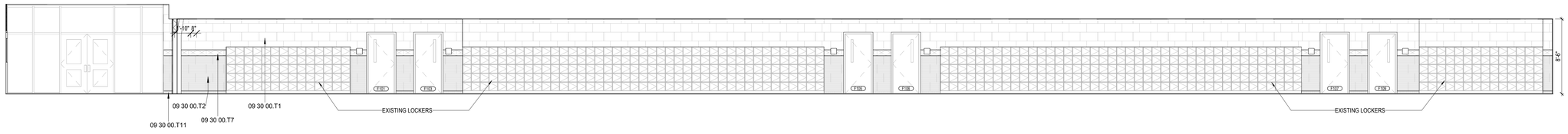
INTERIOR ELEVATIONS

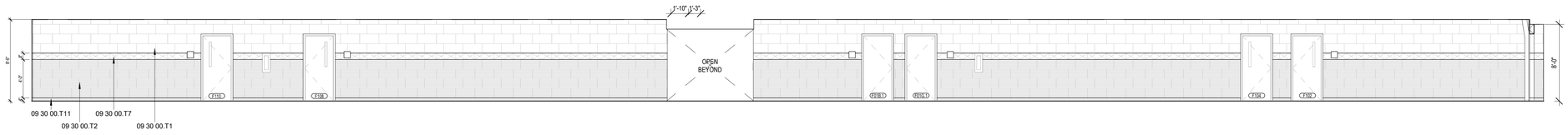
A-524

FOR BLUEBEAM LABELING/OCR:

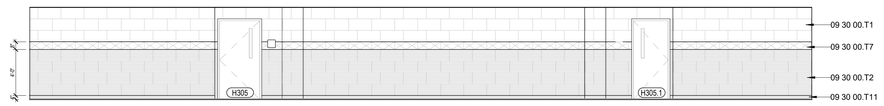
ISSUE FOR PROPOSAL



30 CORRIDOR - AREA F - NORTH A
3/16" = 1'-0"

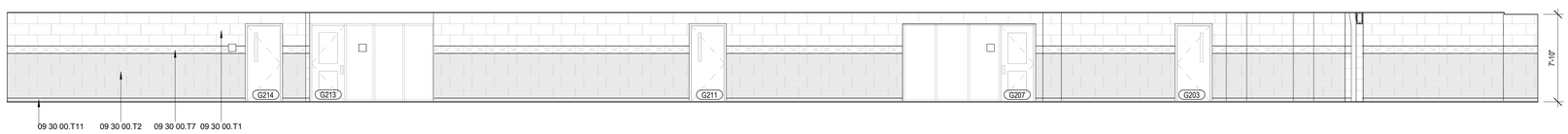


24 CORRIDOR - AREA F - SOUTH A
3/16" = 1'-0"

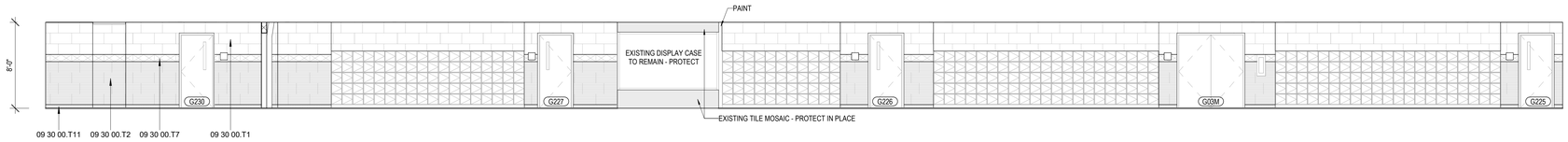


23 CORRIDOR - AREA H - NORTH A
3/16" = 1'-0"

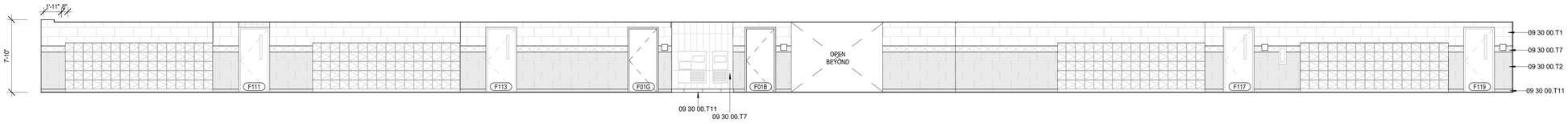
21 CORRIDOR - AREA H - SOUTH
3/16" = 1'-0"



18 CORRIDOR - AREA G - NORTH A
3/16" = 1'-0"



12 CORRIDOR - AREA G - SOUTH A
3/16" = 1'-0"



06 CORRIDOR - AREA F - NORTH B
3/16" = 1'-0"

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PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
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ARPY
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FOOD SERVICE
SSD
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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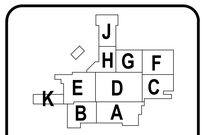


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATIONS

A-524

INTERIOR ELEVATIONS

A-525

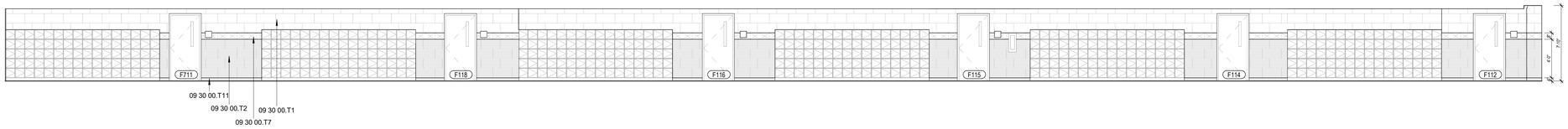
FOR BLUEBEAM LABELING OOR:

0"

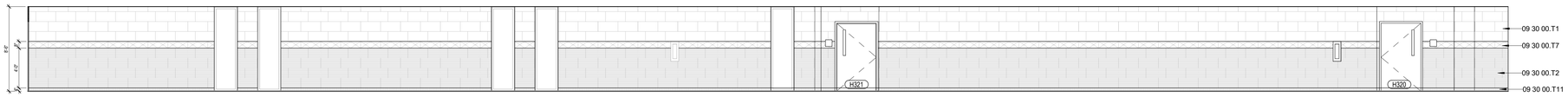
1"

KEYNOTE LEGEND

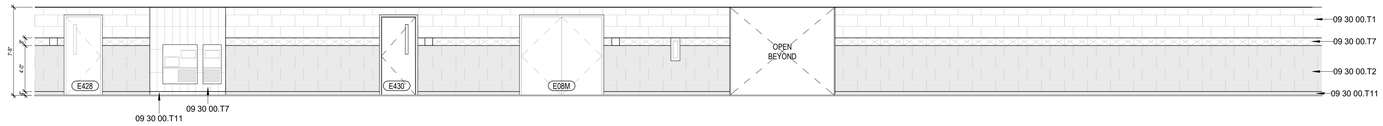
NUMBER	DESCRIPTION
09 30 00.T1	TILE TYPE 1 - CORRIDOR
09 30 00.T2	TILE TYPE 2 - CORRIDOR
09 30 00.T7	TILE TYPE 7 - CORRIDOR/WATER FOUNTAIN/SHOWER/RESTROOM
09 30 00.T11	TILE TYPE 11 -CORRIDOR BASE



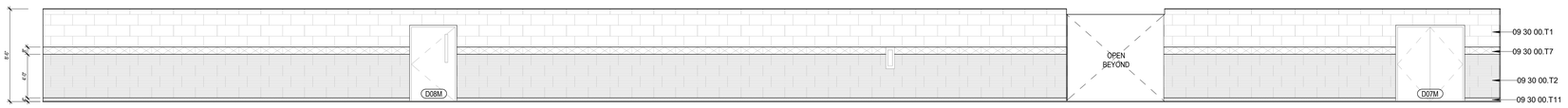
30 CORRIDOR - AREA F - SOUTH B1
3/16" = 1'-0"



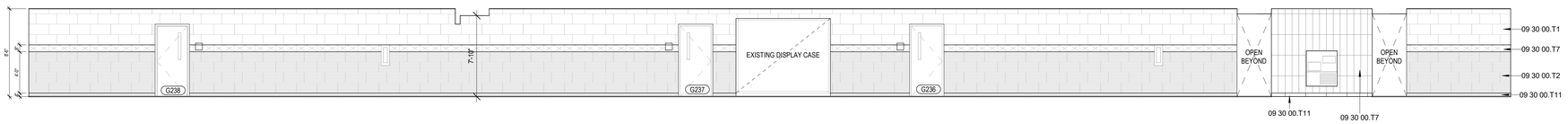
24 CORRIDOR - AREA H - NORTH B
3/16" = 1'-0"



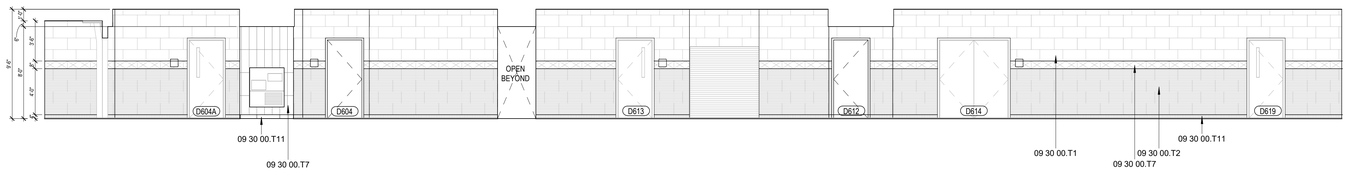
18 CORRIDOR - AREA E - NORTH
3/16" = 1'-0"



17 CORRIDOR - AREA D - NORTH A
3/16" = 1'-0"



12 CORRIDOR - AREA G - NORTH B
3/16" = 1'-0"



06 CORRIDOR - AREA D - NORTH
3/16" = 1'-0"

ISSUE FOR PROPOSAL

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SPECTRUM
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RSC
T 281-350-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

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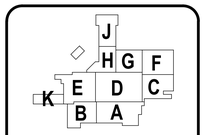
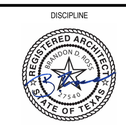


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE



01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATIONS

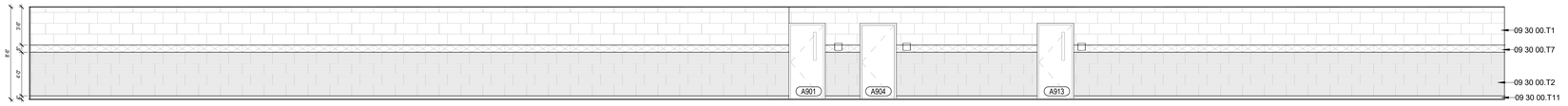
A-525

INTERIOR ELEVATIONS

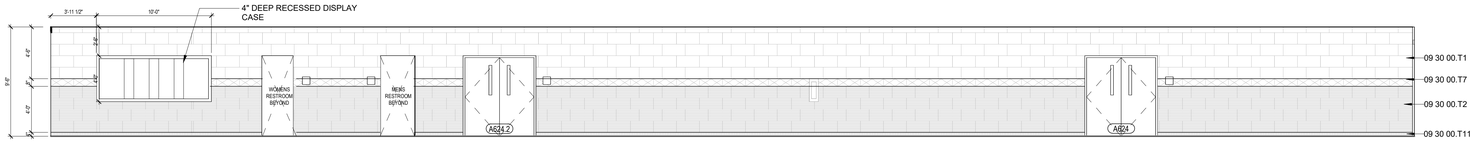
A-526

FOR BLUEBEAM LABELING:

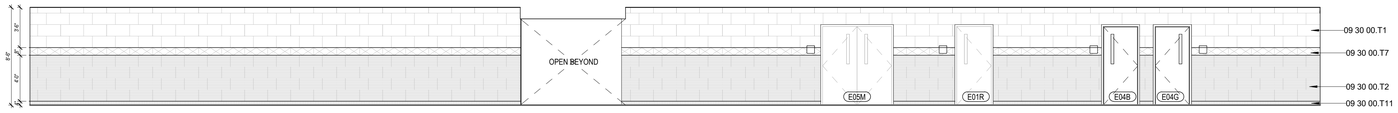
ISSUE FOR PROPOSAL



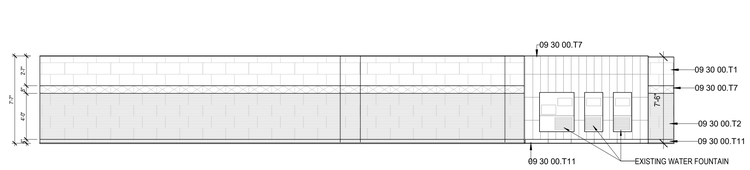
30 CORRIDOR - AREA A - SOUTH A
3/16" = 1'-0"



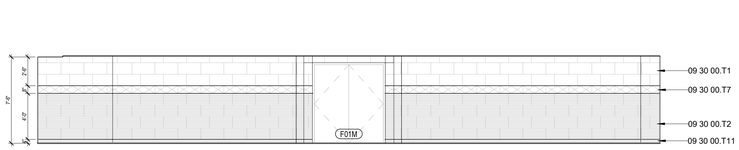
24 CORRIDOR - AREA A - SOUTH B
3/16" = 1'-0"



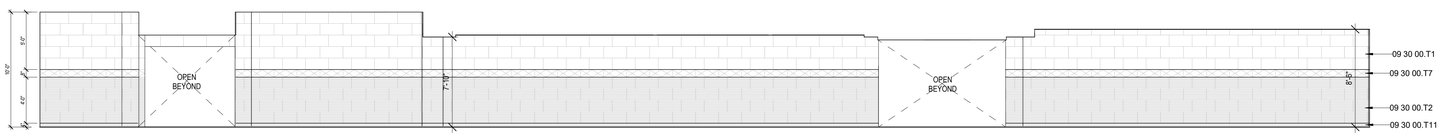
18 CORRIDOR - AREA E & D - SOUTH
3/16" = 1'-0"



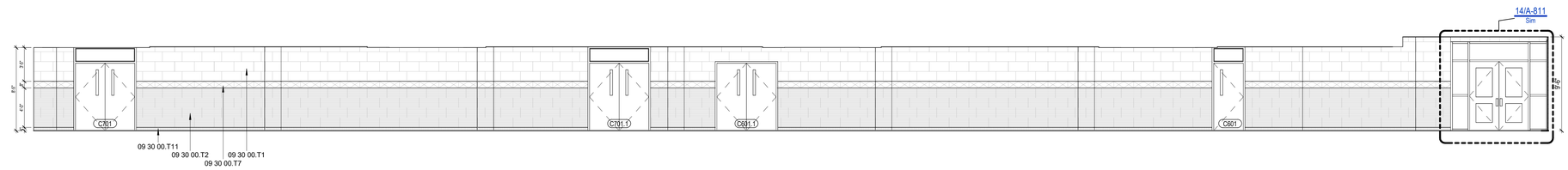
17 CORRIDOR - AREA F - WEST
3/16" = 1'-0"



15 CORRIDOR - AREA F - EAST A
3/16" = 1'-0"



12 CORRIDOR - AREA F - EAST B
3/16" = 1'-0"



06 CORRIDOR - AREA C - EAST
3/16" = 1'-0"

ISSUE FOR PROPOSAL

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TX Firm: BR 1608

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T 281-256-2223
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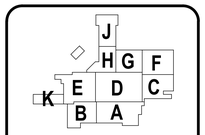
T 000-000-0000

Arnold Middle School

11111 TEL GE RD.
CYPRESS, TX 77429

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATIONS

A-526

INTERIOR ELEVATIONS

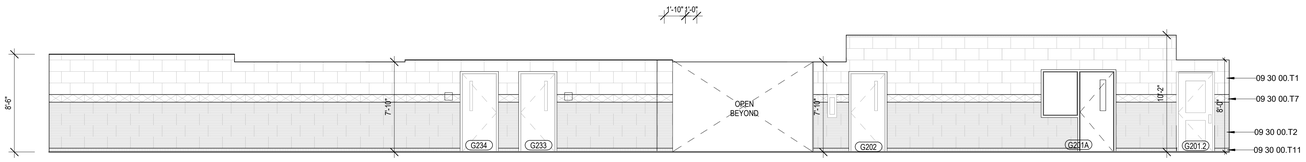
A-527

FOR BLUEBEAM LABELING/OCR:

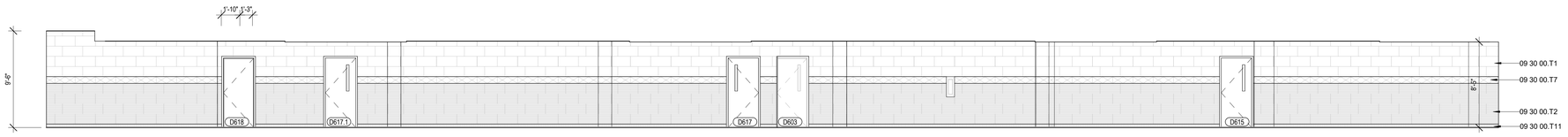
ISSUE FOR PROPOSAL

KEYNOTE LEGEND

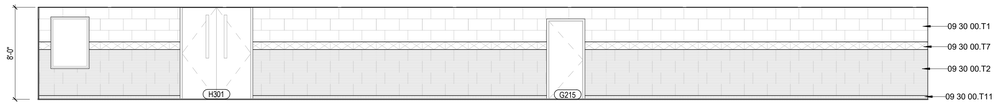
NUMBER	DESCRIPTION
09 30 00.T1	TILE TYPE 1 - CORRIDOR
09 30 00.T2	TILE TYPE 2 - CORRIDOR
09 30 00.T7	TILE TYPE 7 - CORRIDOR/WATER FOUNTAIN/SHOWER/RESTROOM
09 30 00.T11	TILE TYPE 11 -CORRIDOR BASE



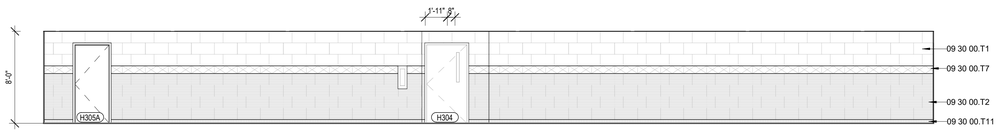
30 CORRIDOR - AREA F - WEST B
3/16" = 1'-0"



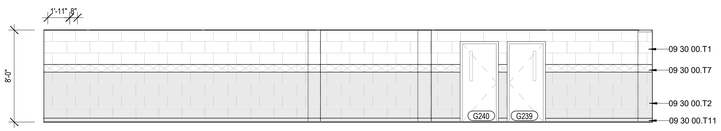
24 CORRIDOR - AREA D - WEST
3/16" = 1'-0"



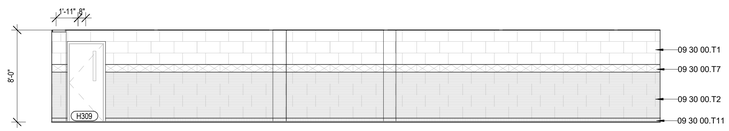
18 H312 CORRIDOR EAST - AREA G
3/16" = 1'-0"



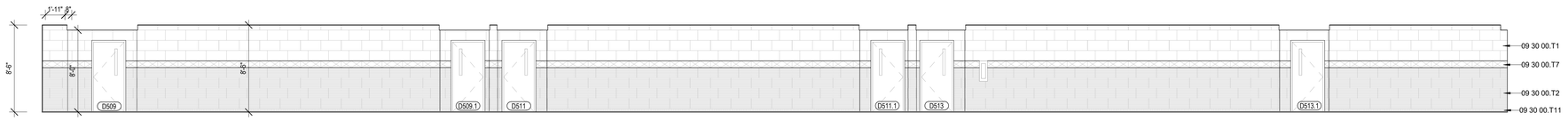
17 H300 CORRIDOR NORTH
3/16" = 1'-0"



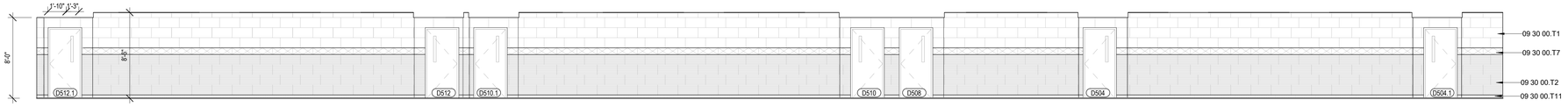
16 H311 CORRIDOR EAST - AREA G
3/16" = 1'-0"



15 H311 CORRIDOR WEST - AREA G
3/16" = 1'-0"



12 CORRIDOR - AREA D - EAST
3/16" = 1'-0"



06 CORRIDOR - AREA D - WEST B
3/16" = 1'-0"

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Arnold Middle School

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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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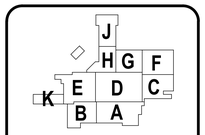


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATIONS

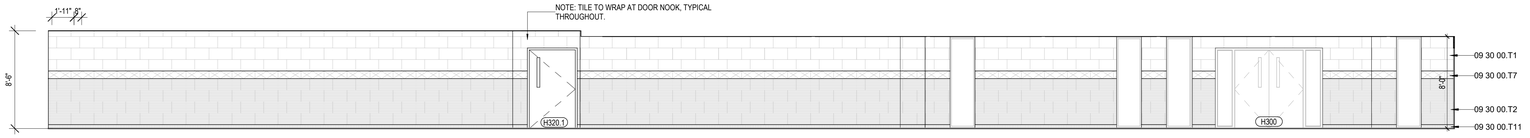
A-527

INTERIOR ELEVATIONS

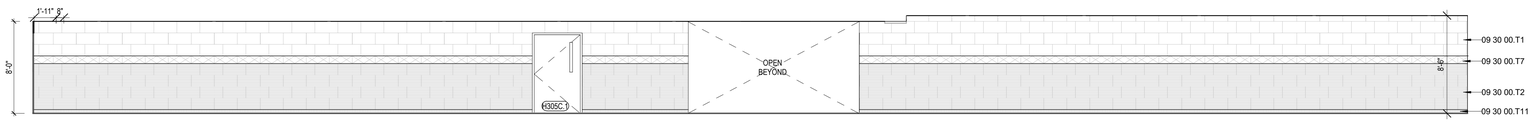
A-528

FOR BLUEBEAM LABELING OCR:

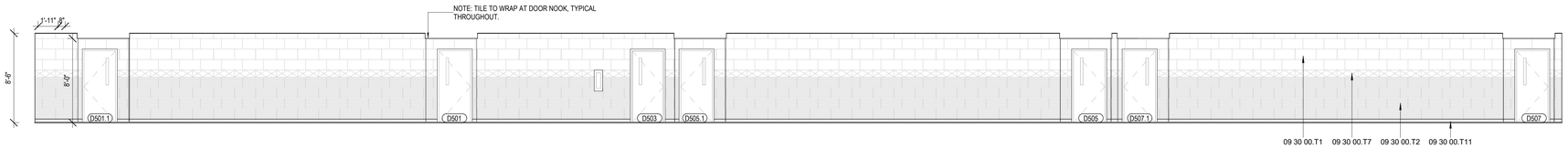
ISSUE FOR PROPOSAL



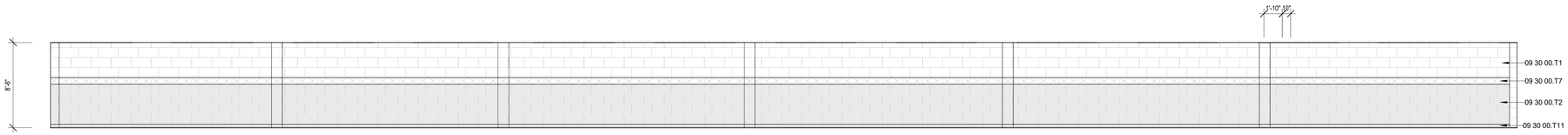
30 H301 CORRIDOR - WEST
3/16" = 1'-0"



24 H301 CORRIDOR - EAST
3/16" = 1'-0"



18 D533 CORRIDOR - EAST
3/16" = 1'-0"



16 D533 CORRIDOR - WEST
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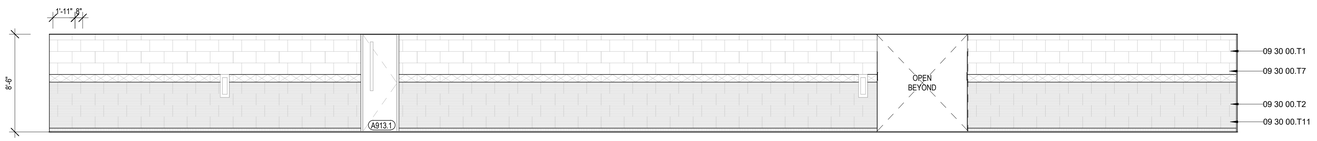
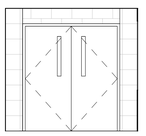
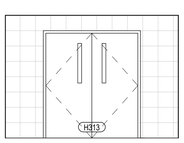


12 B900 CORRIDOR - EAST
3/16" = 1'-0"



07 CORRIDOR H312 - NORTH
1/4" = 1'-0"

06 B900 CORRIDOR - WEST
3/16" = 1'-0"



1 CORRIDOR H301 - NORTH
1/4" = 1'-0"

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CONSULTANT NAME
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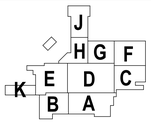

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT
RAMON D. GUTIERREZ
STATE OF TEXAS
27140

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATIONS

A-528

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INTERIOR ELEVATIONS

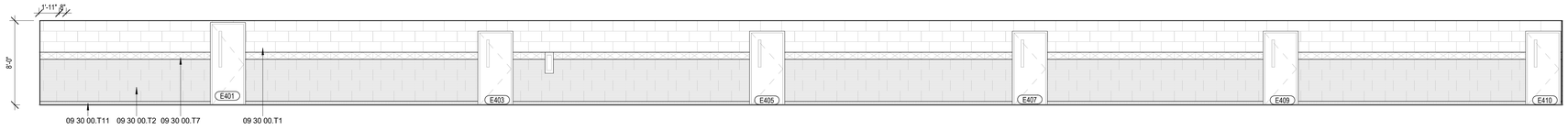
A-529

FOR BLUEBEAM LABELING/OCR:

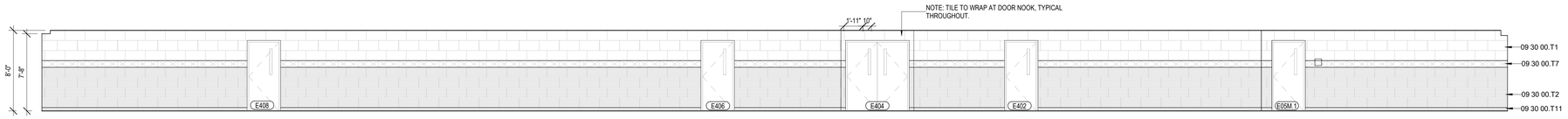
ISSUE FOR PROPOSAL

0"

1"

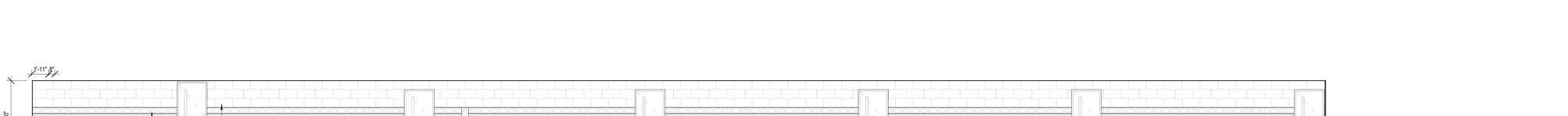


30 E423 CORRIDOR EAST
3/16" = 1'-0"



28 E423 CORRIDOR WEST
3/16" = 1'-0"

24 E422 CORRIDOR EAST
3/16" = 1'-0"



18 E422 CORRIDOR WEST
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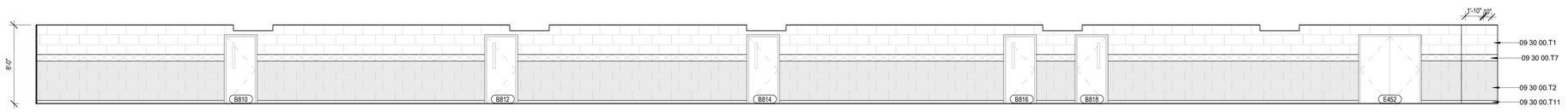
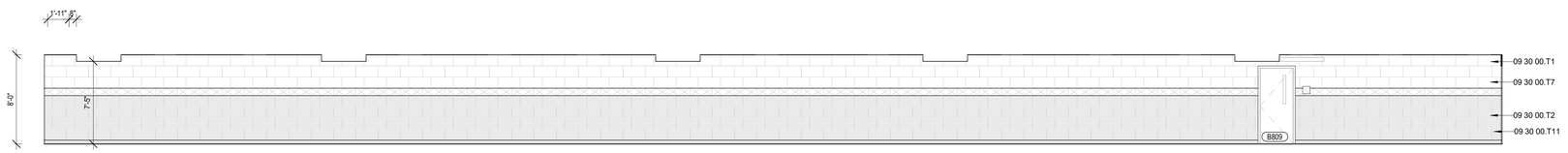


12 B811 CORRIDOR WEST
3/16" = 1'-0"



06 B811 CORRIDOR EAST
3/16" = 1'-0"

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CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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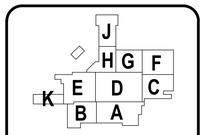


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATIONS

A-529

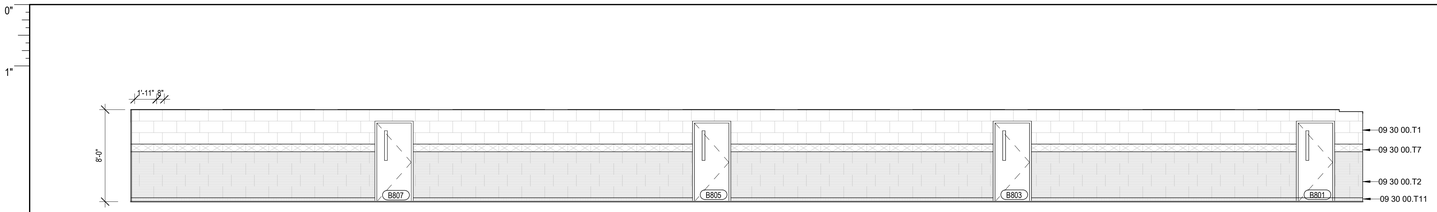
INTERIOR ELEVATION

A-530

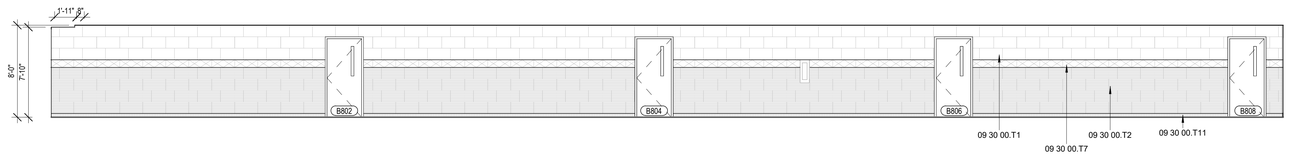
FOR BLUEBEAM LABELING/OCR:

PROPOSAL

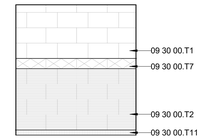
ISSUE FOR P



30 B813 CORRIDOR WEST
3/16" = 1'-0"



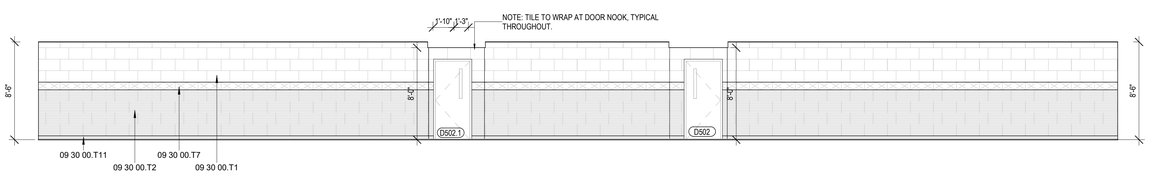
24 B813 CORRIDOR EAST
3/16" = 1'-0"



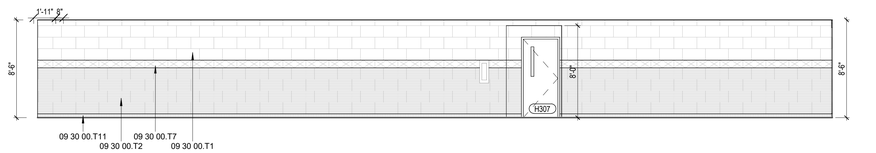
19 CORRIDOR A344 - EAST
1/4" = 1'-0"

18 CORRIDOR A344 - NORTH
1/4" = 1'-0"

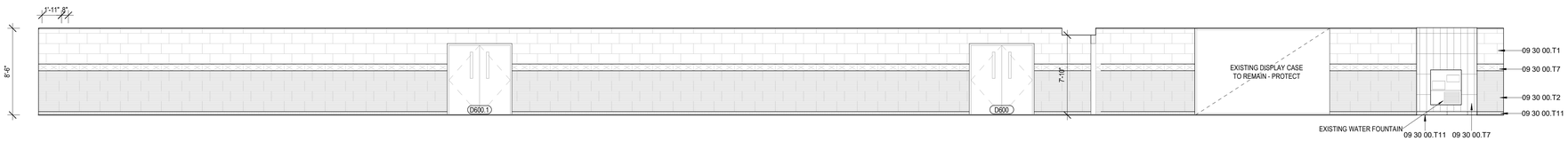
15 CORRIDOR A344 - SOUTH
1/4" = 1'-0"



12 AREA D - SOUTH B
3/16" = 1'-0"



09 CORRIDOR - AREA H - NORTH B1
3/16" = 1'-0"



06 AREA D - SOUTH A
3/16" = 1'-0"

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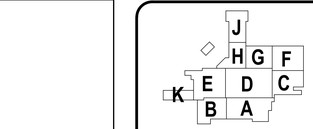
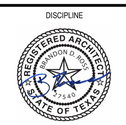


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE



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CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATION

A-530

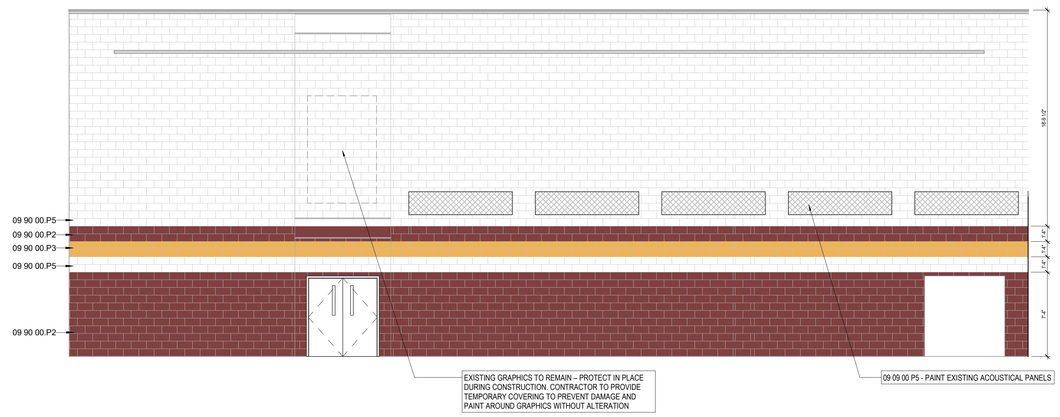
INTERIOR ELEVATION

A-531

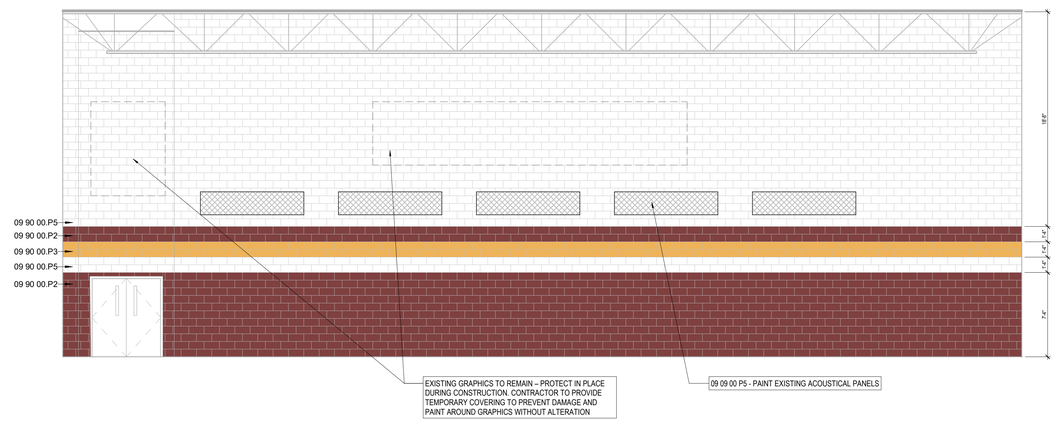
FOR BLUEBEAM LABELING:

ISSUE FOR PROPOSAL

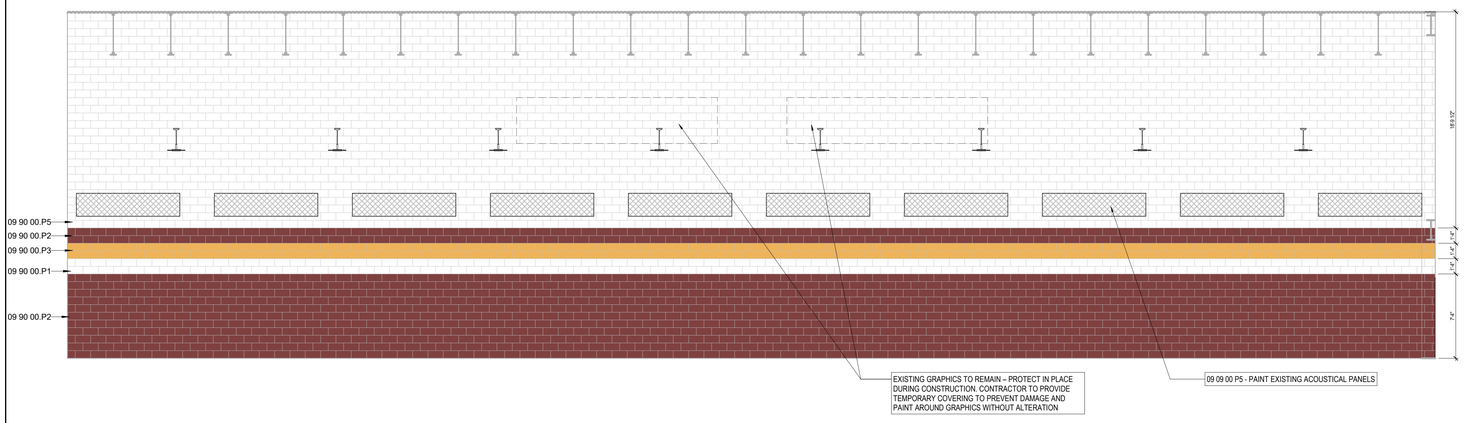
0"
1"



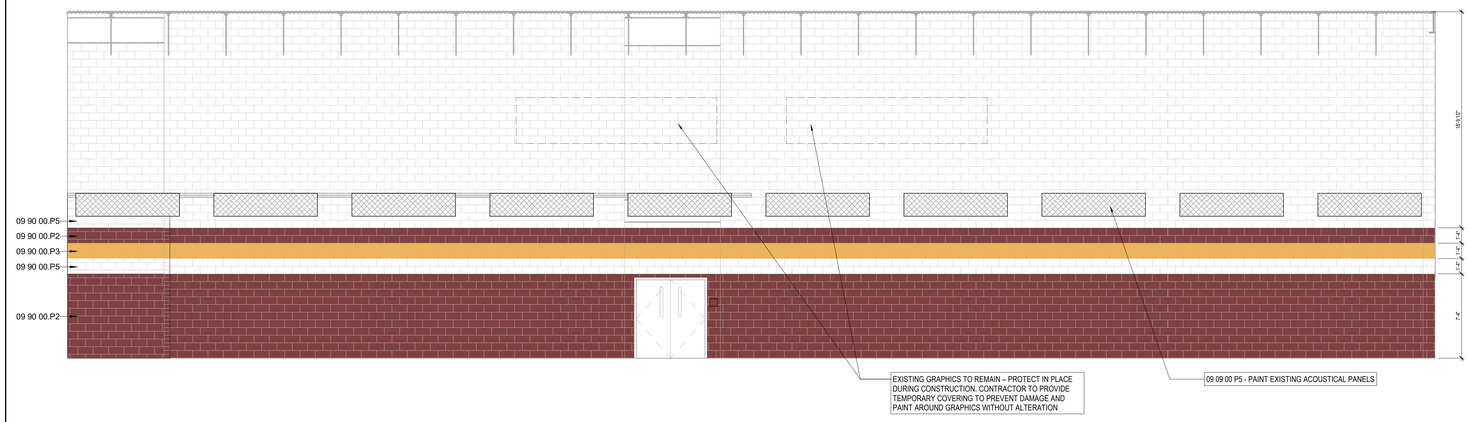
24 A624 COMP. GYM. - NORTH
3/16" = 1'-0"



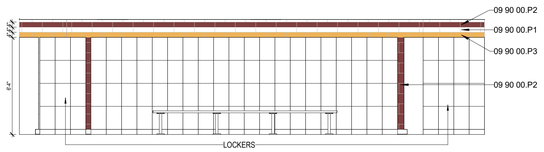
21 A624 COMP. GYM. - SOUTH
3/16" = 1'-0"



12 A624 COMP. GYM. - WEST
3/16" = 1'-0"



06 A624 COMP. GYM. - EAST
3/16" = 1'-0"



1 TYPICAL LOCKER ROOM PAINT
1/4" = 1'-0"

PBK

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11 Greenway Plaza, 22nd Floor
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STRUCTURAL
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LEAP
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FOOD SERVICE
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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATION

A-531

ISSUE FOR PROPOSAL

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INTERIOR ELEVATION

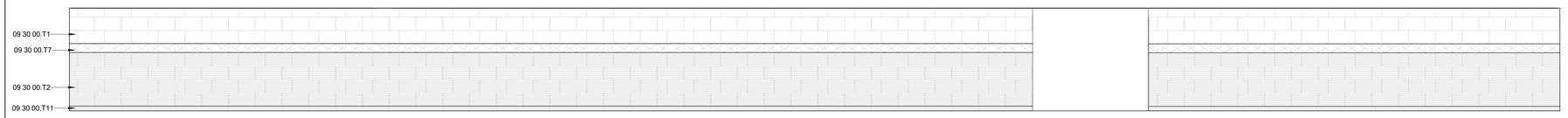
A-532

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

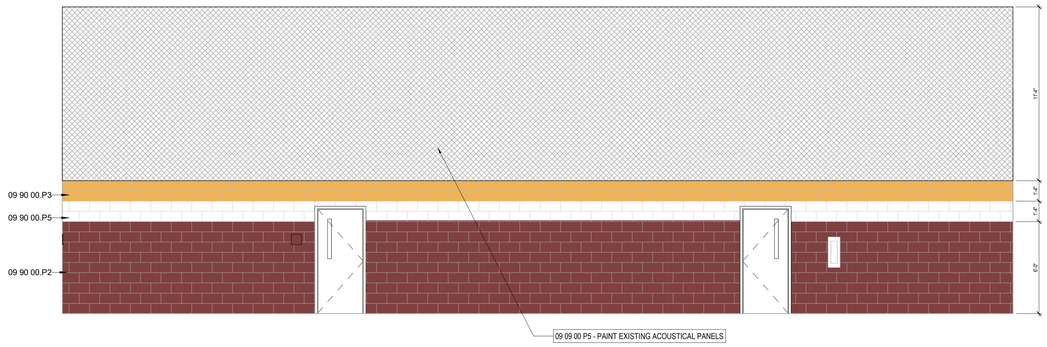
0"

1"

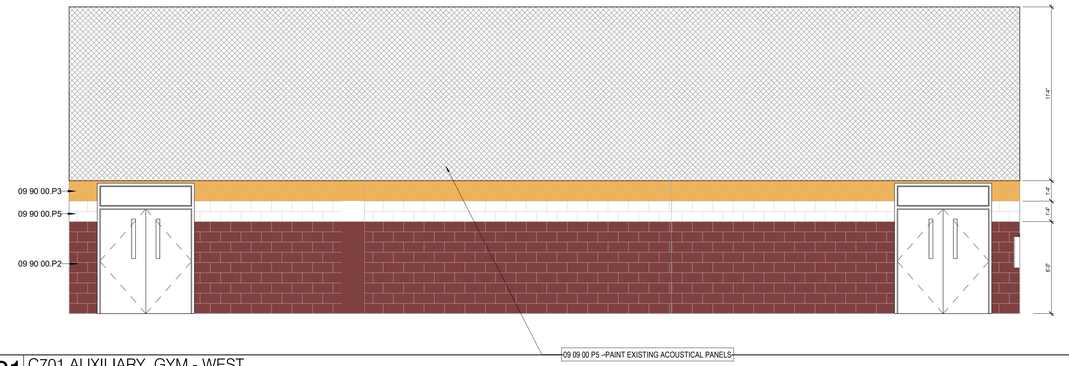


30 NOT USED

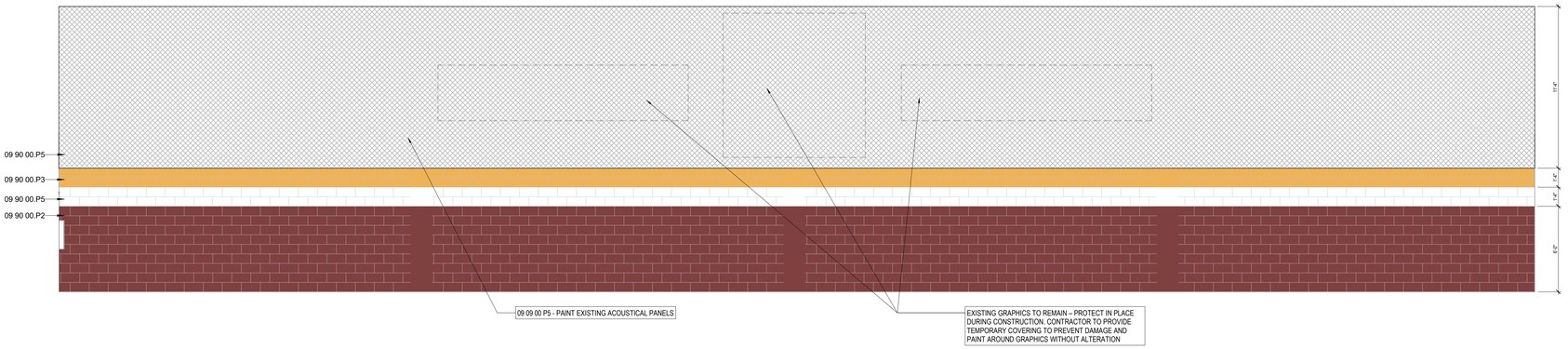
29 CORRIDOR B800 - SOUTH
1/4" = 1'-0"



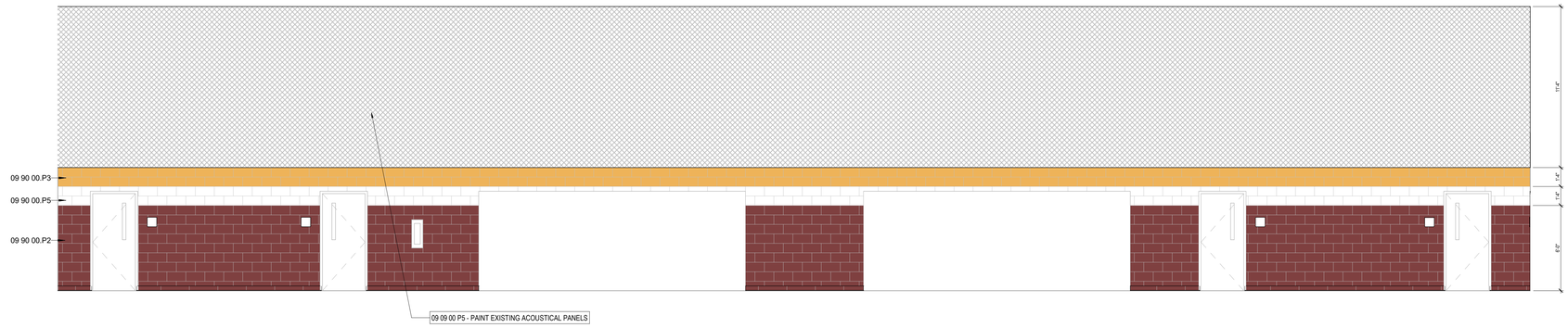
24 C701 AUXILIARY. GYM - EAST
1/4" = 1'-0"



21 C701 AUXILIARY. GYM - WEST
1/4" = 1'-0"



12 C701 AUXILIARY. GYM - SOUTH
1/4" = 1'-0"



06 C701 AUXILIARY. GYM - NORTH
1/4" = 1'-0"

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SHEN
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SHEN
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CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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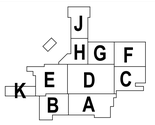


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

INTERIOR ELEVATION

A-532

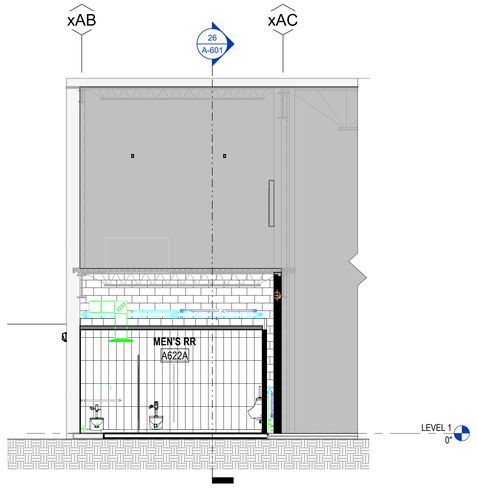
ISSUE FOR PROPOSAL

BUILDING SECTIONS
A-601
FOR BLUEBEAM LABELING/OCR:

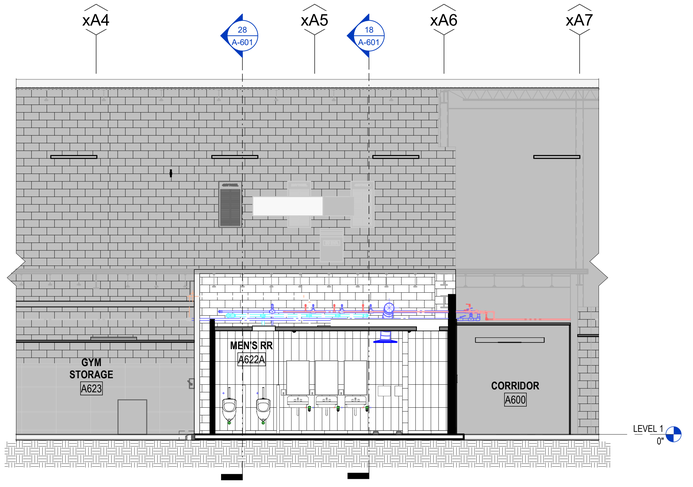
0"
1"

30 NOT USED

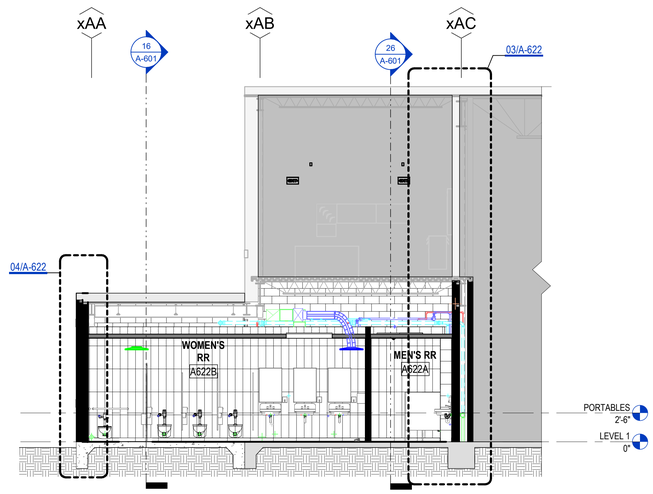
29 NOT USED



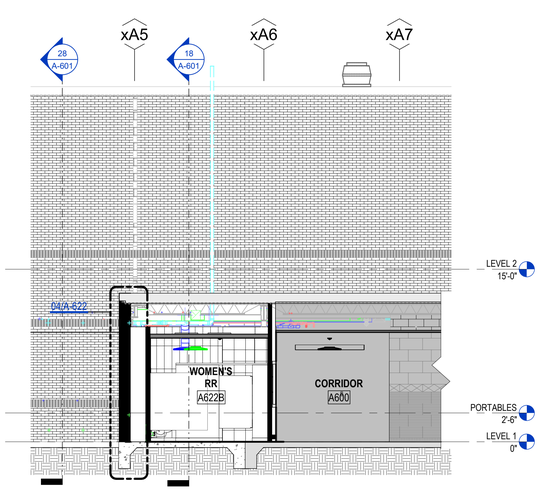
28 BUILDING SECTION - RESTROOM 4
3/16" = 1'-0"



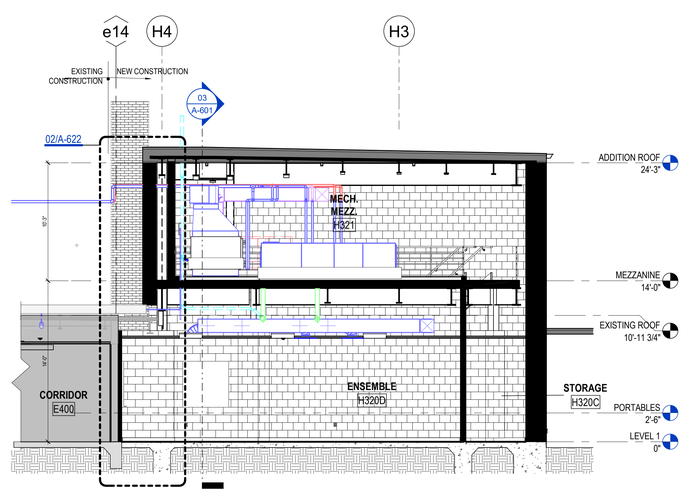
26 BUILDING SECTION - RESTROOM 1
3/16" = 1'-0"



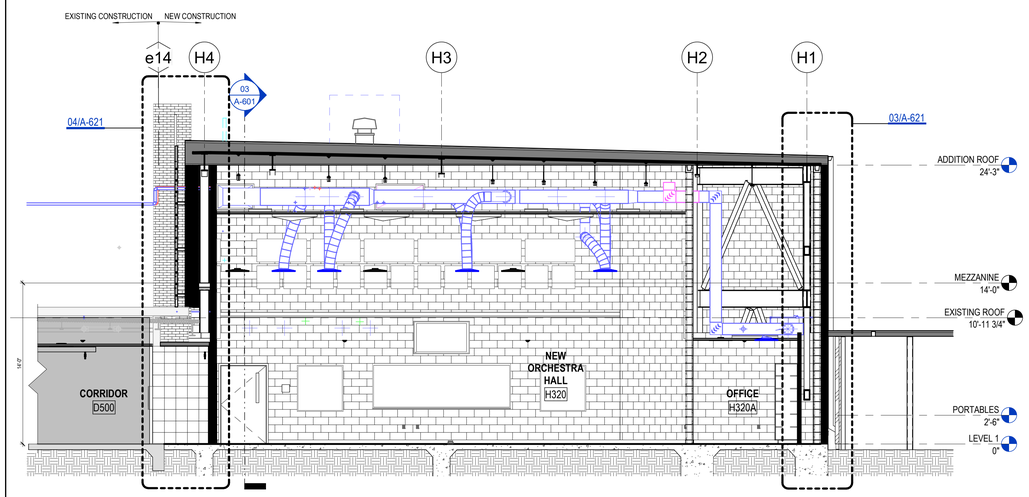
18 BUILDING SECTION - RESTROOM SOUTH
3/16" = 1'-0"



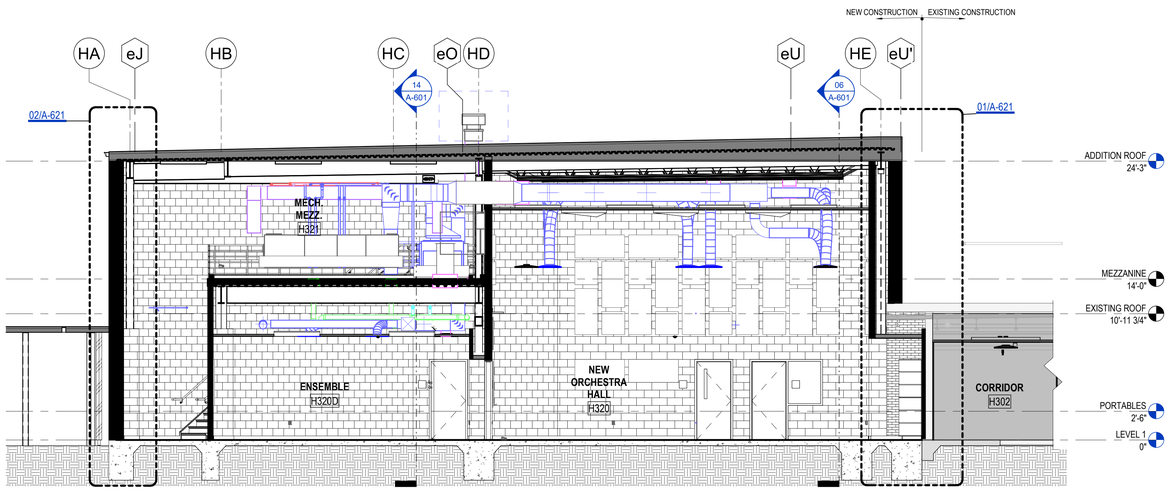
16 BUILDING SECTION - RESTROOM WEST
3/16" = 1'-0"



14 BUILDING SECTION - ORCHESTRA MEZZANINE
3/16" = 1'-0"



06 BUILDING SECTION - ORCHESTRA WEST
3/16" = 1'-0"



03 BUILDING SECTION - ORCHESTRA NORTH
3/16" = 1'-0"

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KIRKPATRICK ENGINEERS
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LEAP
T 713-540-3300
ACOUSTIC
SHEN
T 512-476-3664
FOOD SERVICE
SSD
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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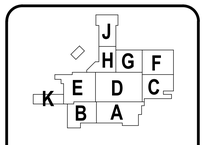

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
BRANDON D. SMITH
REGISTERED ARCHITECT
97149
STATE OF TEXAS
01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

BUILDING SECTIONS

A-601

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR22_220023_CFISD_Arnold MS.rvt
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ISSUE FOR PROPOSAL

WALL SECTIONS

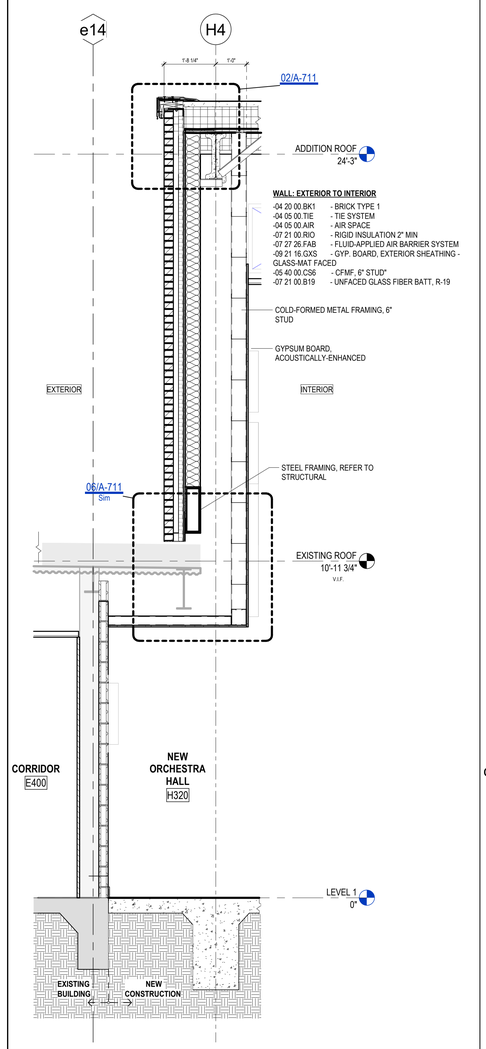
A-621

FOR BLUEBEAM LABELING/OCR:

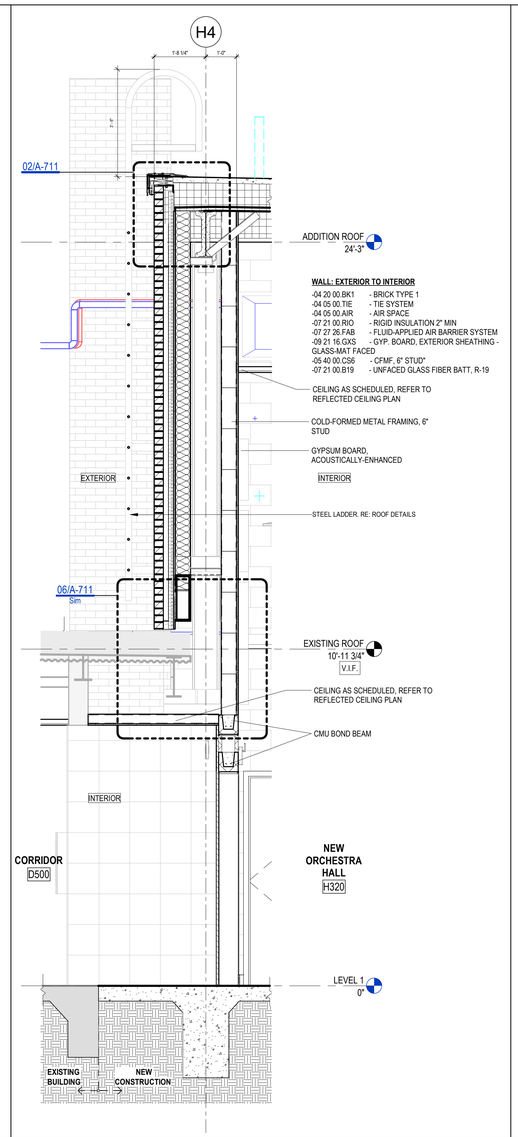
0"

1"

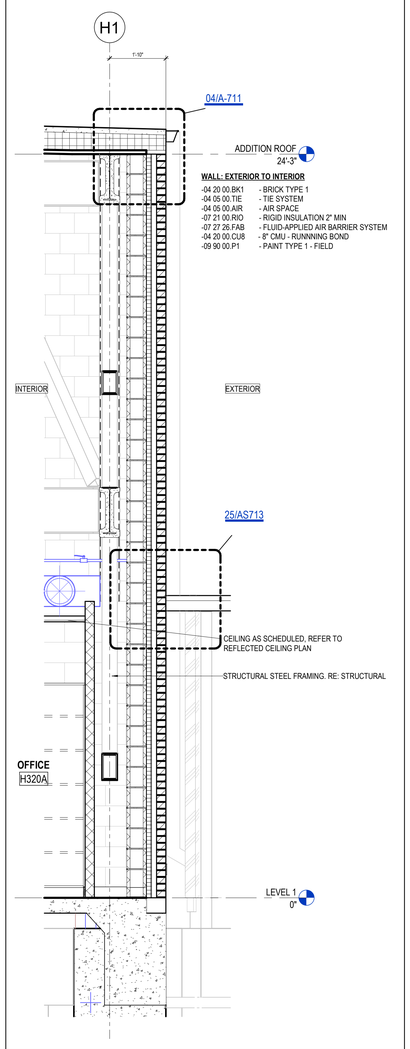
NOTE: REFER TO ELEVATIONS FOR FINISHED BRICK PATTERN



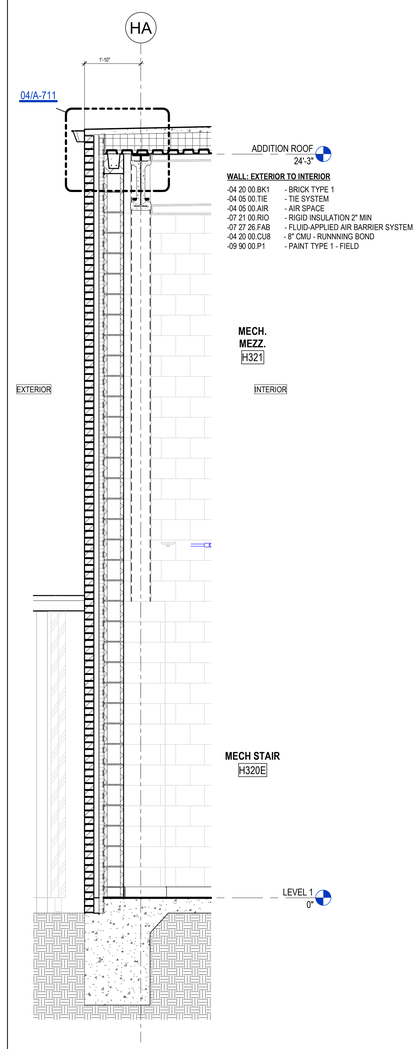
05 WALL SECTION - ORCHESTRA WEST 3
1/2" = 1'-0"



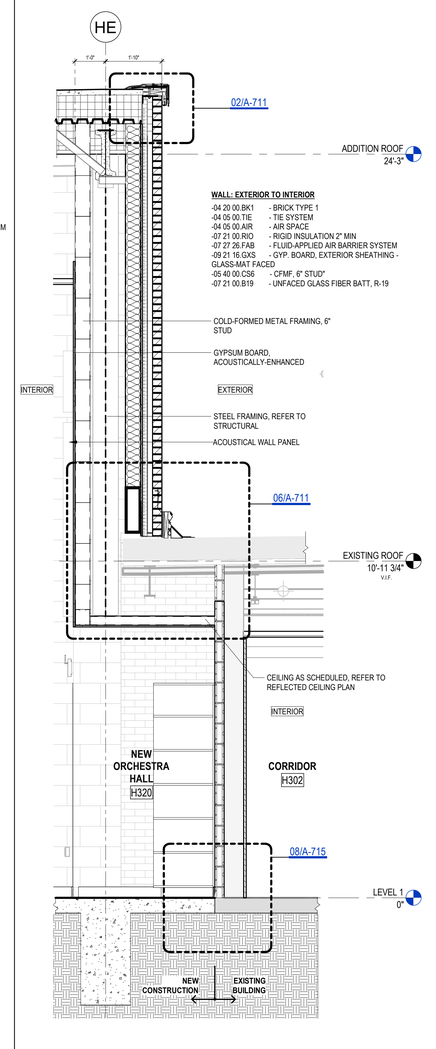
04 WALL SECTION - ORCHESTRA WEST 2
1/2" = 1'-0"



03 WALL SECTION - ORCHESTRA WEST 1
1/2" = 1'-0"



02 WALL SECTION - ORCHESTRA NORTH 2
1/2" = 1'-0"



01 WALL SECTION - ORCHESTRA NORTH 1
1/2" = 1'-0"

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STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEP/T
LEAP
T 713-340-3300
ACOUSTIC
ACOUSTI
T 512-476-3664
FOOD SERVICE
FSD
T 281-256-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TEL GEF RD.
CYPRESS, TX 77429

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
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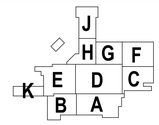


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

WALL SECTIONS

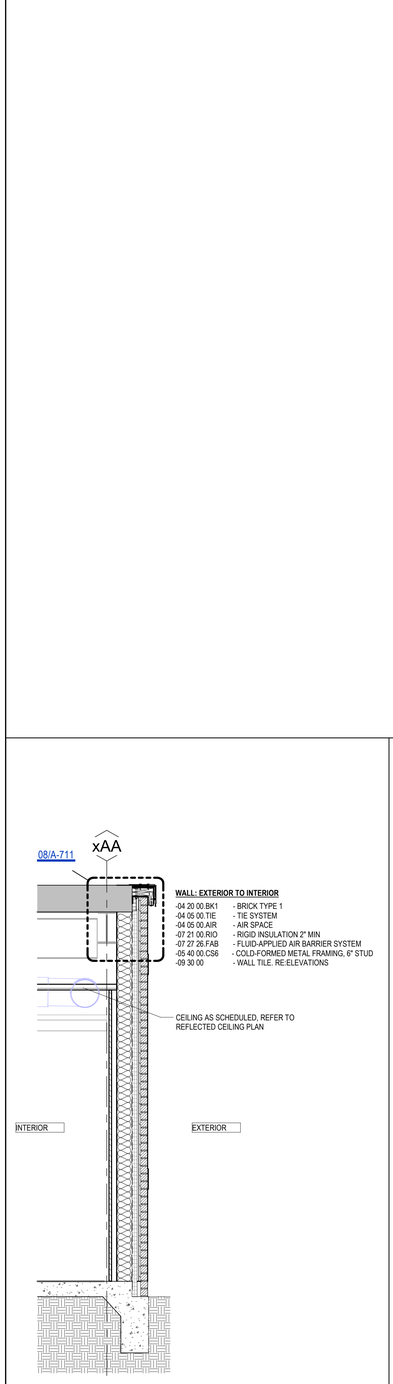
A-621

ISSUE FOR PROPOSAL

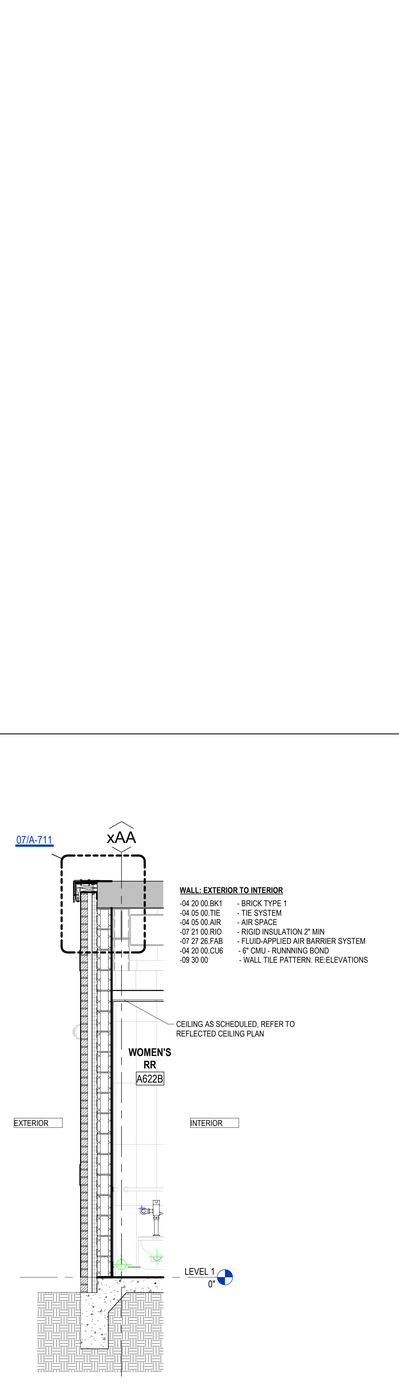
WALL SECTIONS
A-622
FOR BLUEBEAM LABELING/OCR:

0"
1"

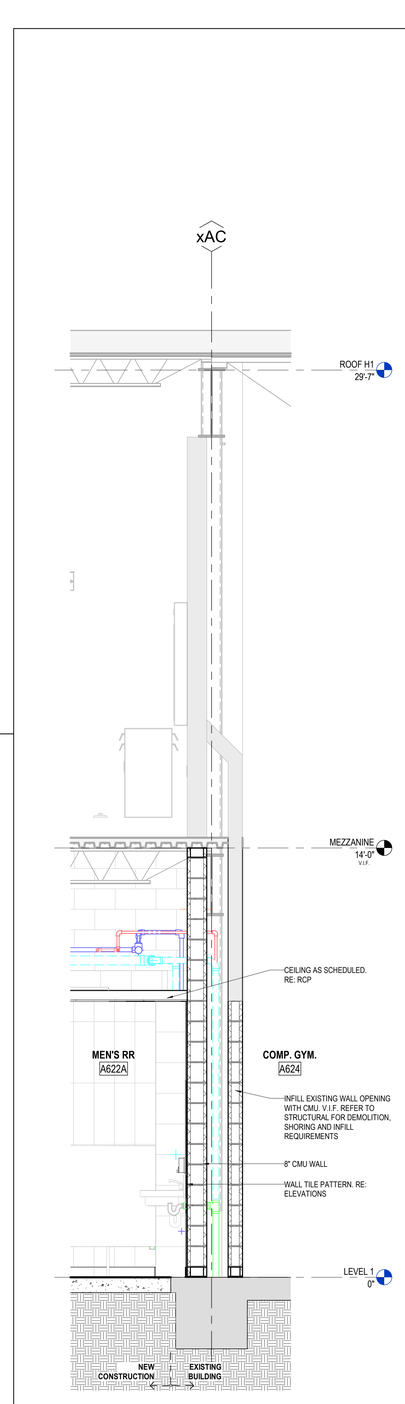
NOTE: REFER TO ELEVATIONS FOR FINISHED BRICK PATTERN



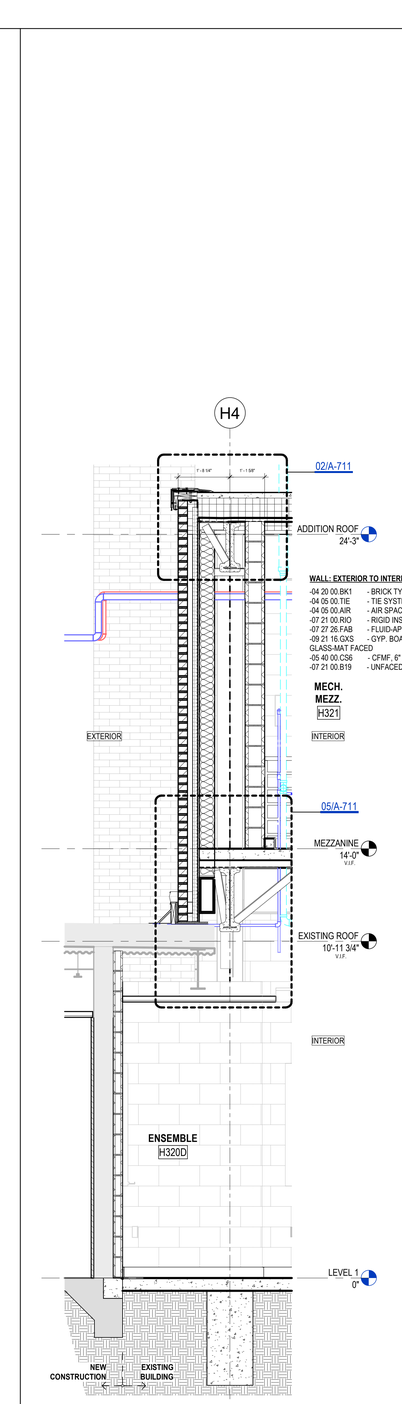
05 WALL SECTION SOUTH
1/2" = 1'-0"



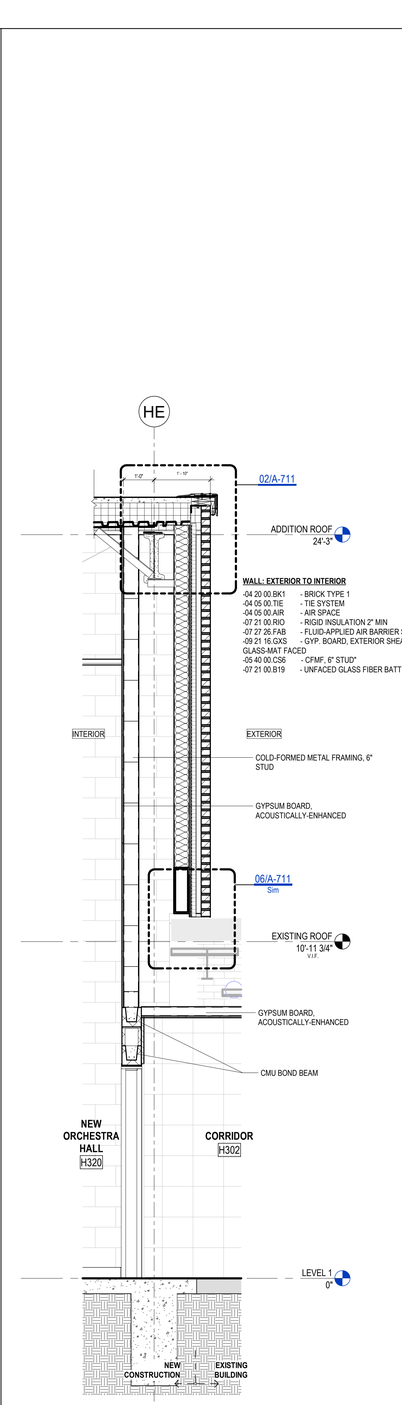
04 WALL SECTION - RESTROOM SOUTH 3
1/2" = 1'-0"



03 WALL SECTION - RESTROOM SOUTH 2
1/2" = 1'-0"



02 WALL SECTION - ORCHESTRA MEZZANINE
1/2" = 1'-0"



01 WALL SECTION - ORCHESTRA
1/2" = 1'-0"

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T 713-340-3300
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RSC
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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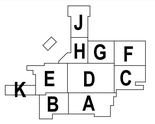

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

WALL SECTIONS

A-622

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Author
Plot Stamp:
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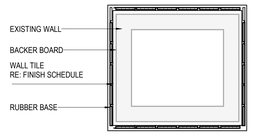
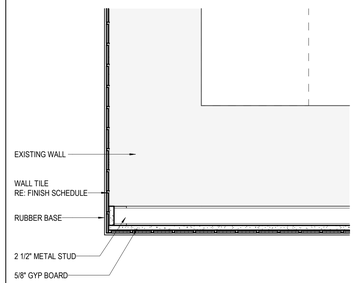
PLAN DETAILS
A-701
FOR BLUEBEAM LABELING:

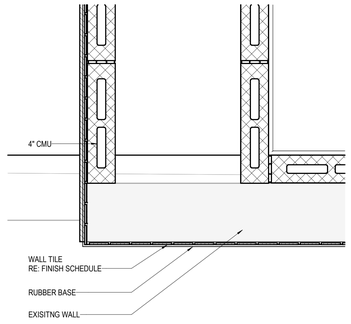
0"
1"



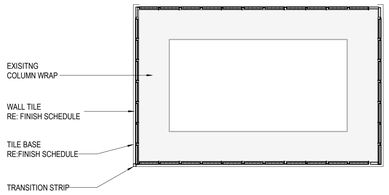
22 AREA E - TILE PLAN DETAIL - CORRIDOR TYP.
1 1/2" = 1'-0"



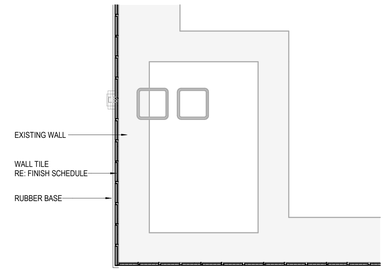
21 AREA H - Callout 2
1 1/2" = 1'-0"



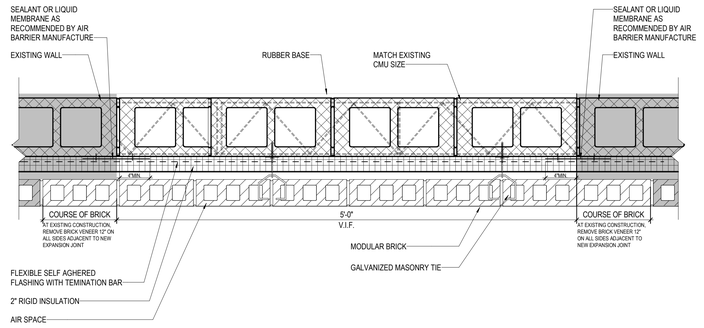
20 AREA H - Callout 1
1 1/2" = 1'-0"



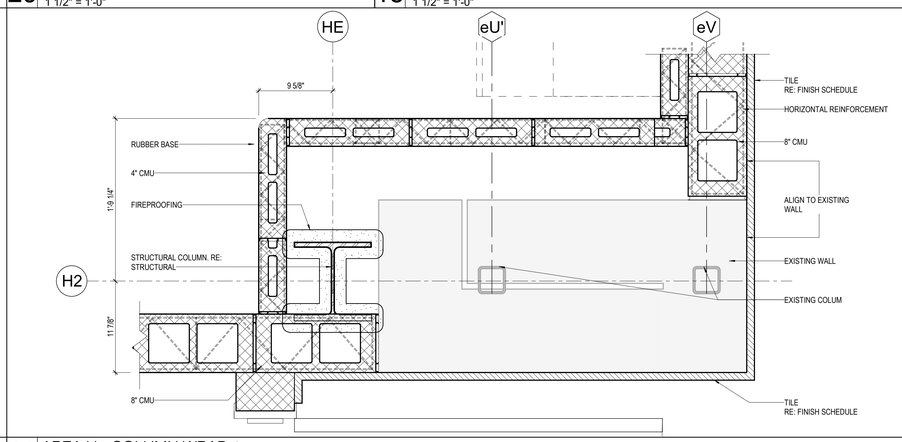
19 AREA J - TILE PLAN DETAIL - CAFETERIA TYP.
1 1/2" = 1'-0"



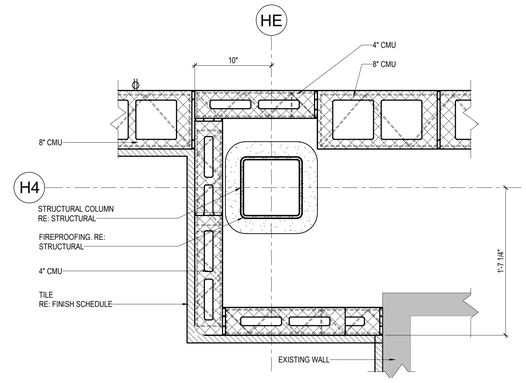
18 PLAN DETAIL - TILE CORNER CONDITION
1 1/2" = 1'-0"



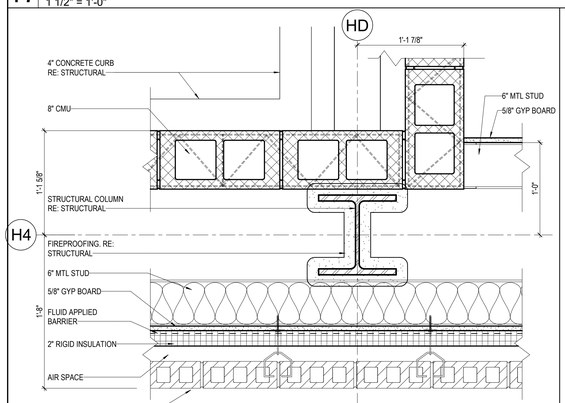
17 1ST LEVEL - FLOOR PLAN - AREA A - Callout 1
1 1/2" = 1'-0"



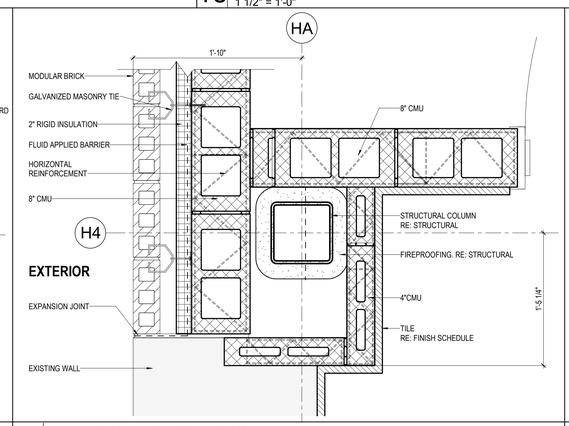
16 AREA H - COLUMN WRAP 4
1 1/2" = 1'-0"



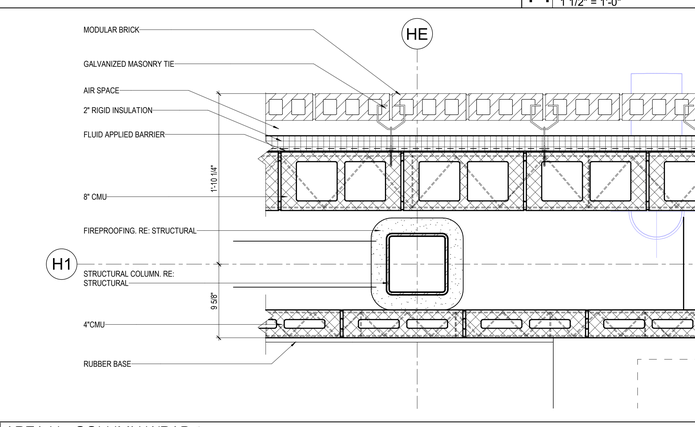
14 AREA H - COLUMN WRAP 5
1 1/2" = 1'-0"



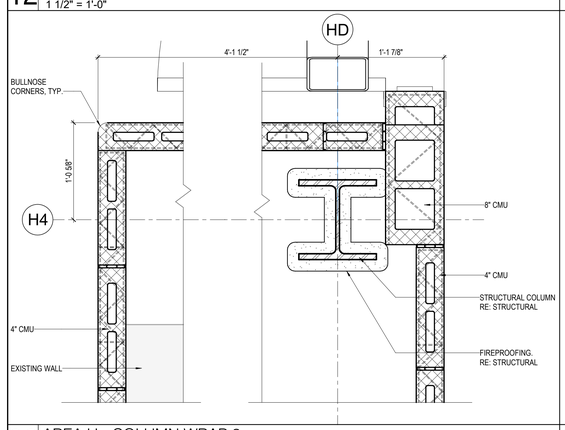
12 MEZZANINE - FLOOR PLAN - AREA H - Callout 1
1 1/2" = 1'-0"



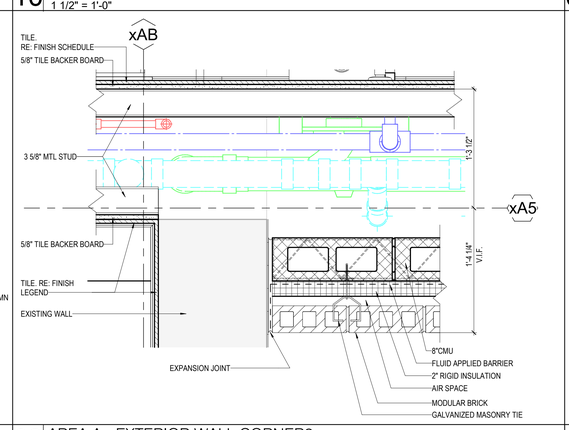
10 AREA H - COLUMN WRAP 3
1 1/2" = 1'-0"



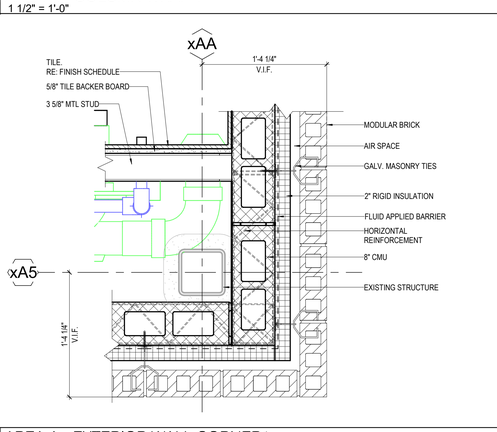
09 AREA H - COLUMN WRAP 1
1 1/2" = 1'-0"



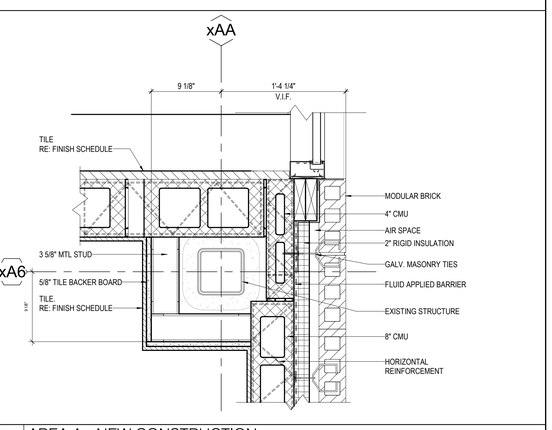
06 AREA H - COLUMN WRAP 2
1 1/2" = 1'-0"



03 AREA A - EXTERIOR WALL CORNER2
1 1/2" = 1'-0"



02 AREA A - EXTERIOR WALL CORNER1
1 1/2" = 1'-0"



01 AREA A - NEW CONSTRUCTION
1 1/2" = 1'-0"

ISSUE FOR PROPOSAL

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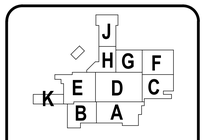
PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
BROOKS & SPARKS
T 281-478-5998
LANDSCAPE
EDGELAND GROUP
T 713-862-1000
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEP/T
LEAP
T 713-340-3300
ACOUSTIC
T 512-476-3654
FOOD SERVICE
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

PLAN DETAILS

A-701

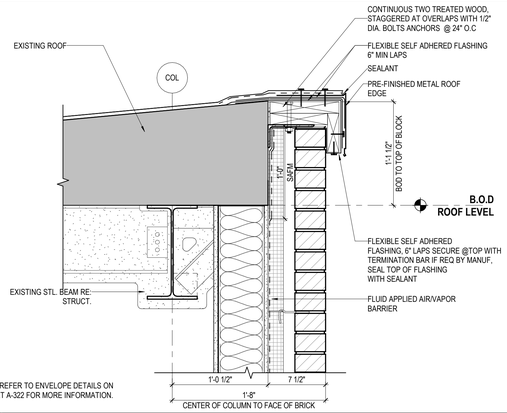
WALL SECTION DETAILS

A-711

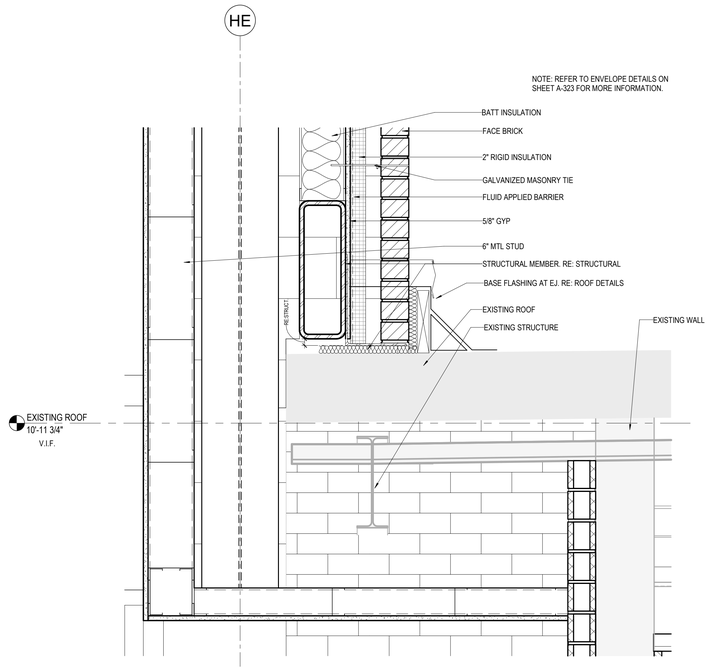
FOR BLUEBEAM LABELING/OCR:

0"

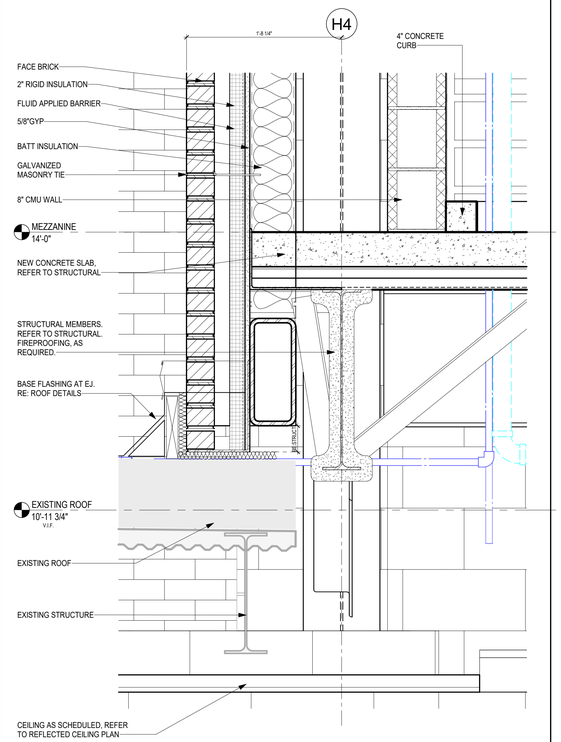
1"



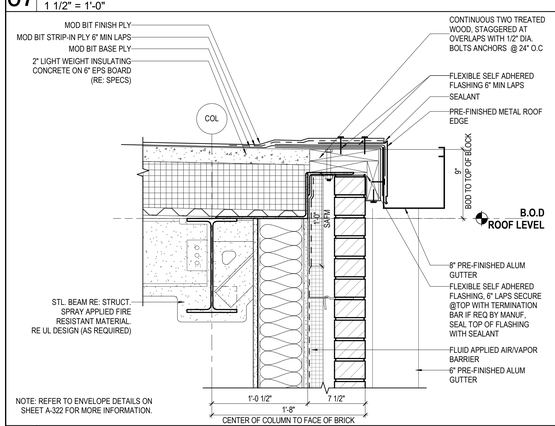
07 ROOF EDGE WITH TYP CMU BACK UP, EXISTING ROOF
1 1/2" = 1'-0"



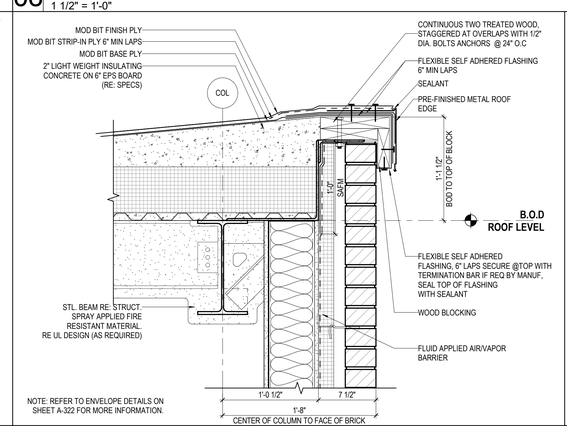
06 WALL SECTION - ORCHESTRA NORTH 1
1 1/2" = 1'-0"



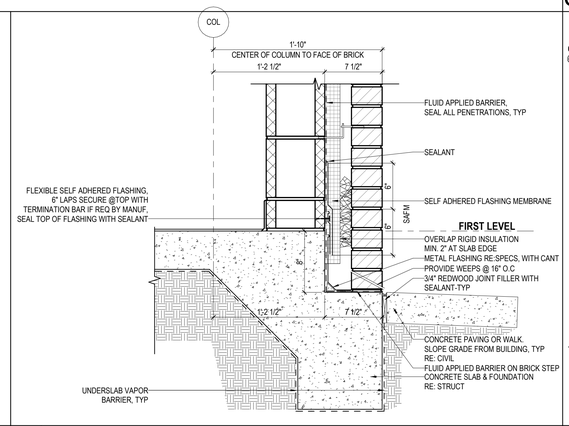
05 WALL SECTION - ORCHESTRA MEZZANINE - Callout 1
1 1/2" = 1'-0"



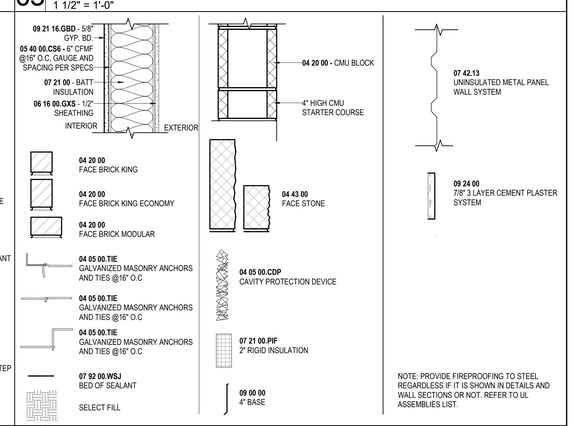
04 ROOF EDGE WITH CFMF GUTTER AND DOWNSPOUT
1 1/2" = 1'-0"



02 ROOF EDGE WITH CFMF AND INTERNAL ROOF DRAIN
1 1/2" = 1'-0"



03 BRICK LEDGE WITH CMU
1 1/2" = 1'-0"



01 SECTION DETAIL SYMBOL LEGEND
1 1/2" = 1'-0"

ISSUE FOR PROPOSAL

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PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
BROOKS & SPARKS
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EDGELAND GROUP
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STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEP/T
LEAP
T 713-540-3300
ACOUSTIC
RSA
T 512-476-3664
FOOD SERVICE
RSC
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TEL GEF RD.
CYPRESS, TX 77429

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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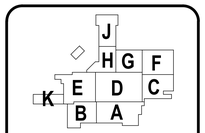


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

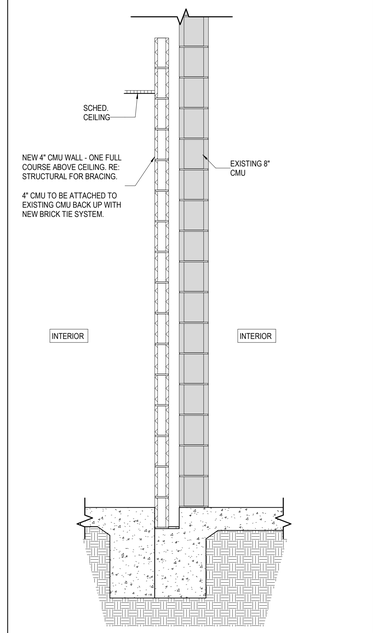
WALL SECTION DETAILS

A-711

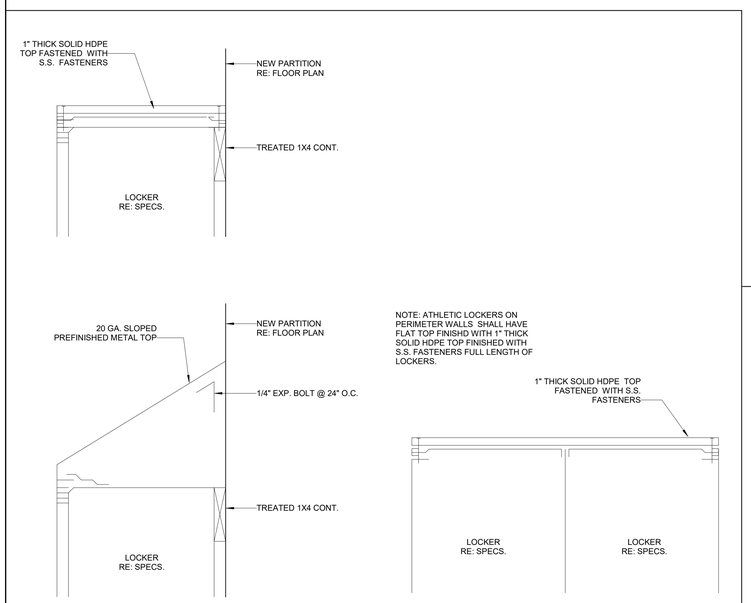
ISSUE FOR PROPOSAL

MISC DETAILS
A-715
FOR BLUEBEAM LABELING/OCR:

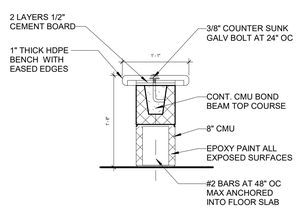
0"
1"



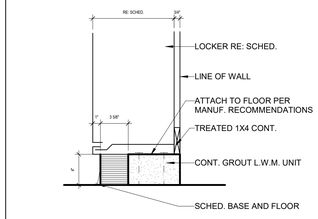
08 EXISTING BRICK WALL SECTION - TYPICAL
3/4" = 1'-0"



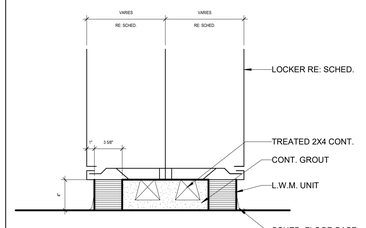
06 LOCKER TOP DETAILS
3" = 1'-0"



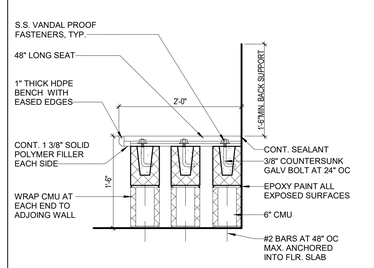
04 LOCKER ROOM BENCH - SECTION DETAIL
1" = 1'-0"



03 ATHLETIC LOCKER BASE - SECTION DTL
1 1/2" = 1'-0"



02 ATHLETIC LOCKER BASE - SECTION DTL 2
1 1/2" = 1'-0"



07 ACCESSIBLE LOCKER ROOM BENCH (ADA)
1" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
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Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
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EDGELAND GROUP
T 713-462-1000
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEP/T
LEAP
T 713-340-3300
ACOUSTIC
T 512-476-3454
FOOD SERVICE
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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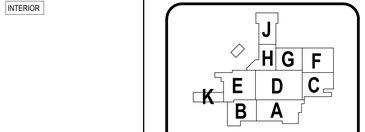
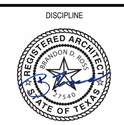


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE



01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

MISC DETAILS

A-715

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

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Author
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2/14/2025 8:42:03 AM

PARTITION TYPES - MTL STUDS

A-801A

FOR BLUEBEAM LABELING/OCR:

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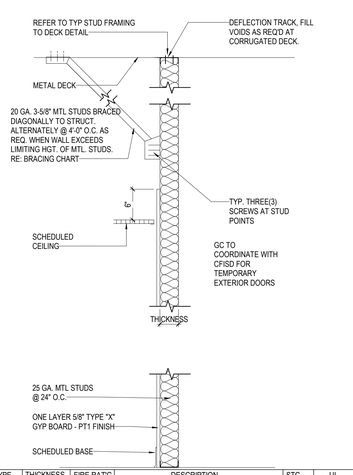
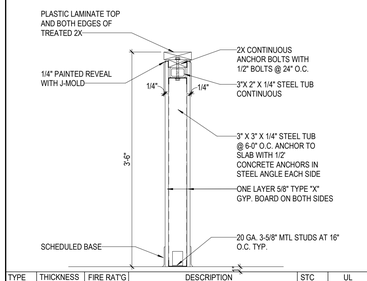
0"
1"



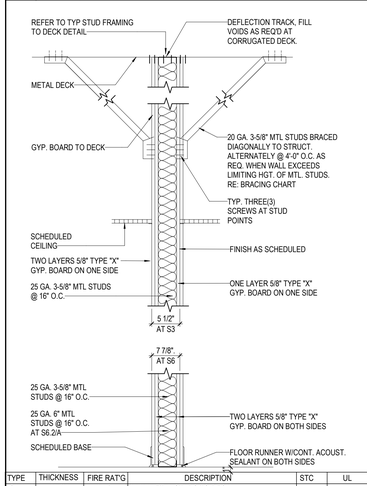
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
T3	3 5/8"	-	3-5/8" MTL STUD TO DECK		
T6	6"	-	6" MTL STUD TO DECK		

18 PARTITION TYPE T- TEMPORARY INTERIOR
1" = 1'-0"



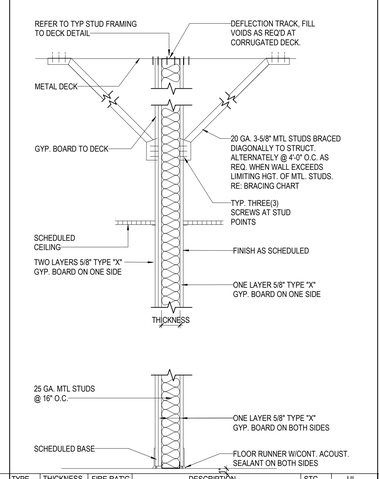
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
S3.P	3 5/8"	NONE	3 5/8" MTL STUD PARTIAL HEIGHT WITH CAP		
S6.P	6"	NONE	6" MTL STUD PARTIAL HEIGHT WITH CAP		

12 PARTITION TYPE S-.P [PARTIAL WALL]
1" = 1'-0"



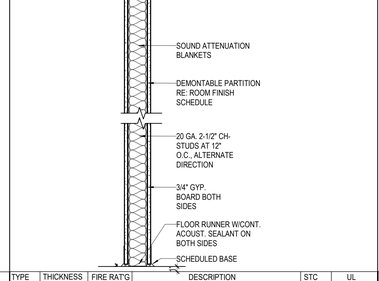
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
S3.2	3 5/8"	2 HR	3 5/8" METAL STUDS TO DECK		
S6.2	6"	2 HR	6" METAL STUDS TO DECK		
S6.A	6"	NONE	6" METAL STUDS TO DECK		

06 PARTITION TYPE - S [TO DECK]
1" = 1'-0"



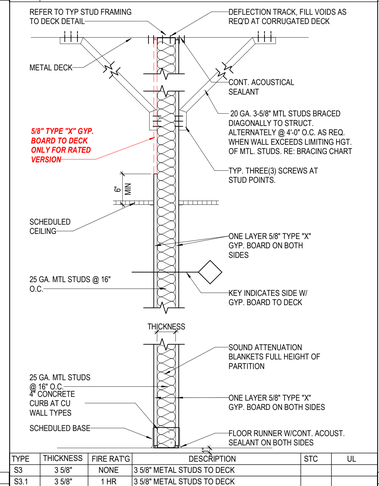
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
C3.1	3 5/8"	1HR	3-5/8" MTL STUD TO DECK		
C6.1	6"	1HR	6" MTL STUD TO DECK		

17 PARTITION TYPE C-
1" = 1'-0"



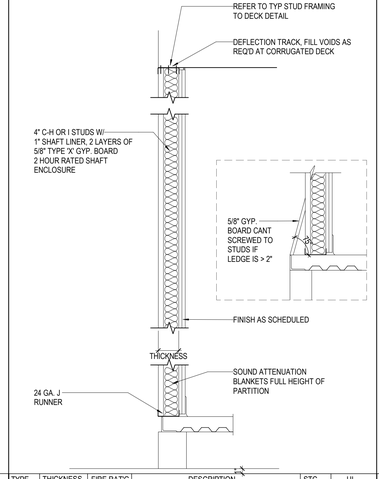
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
S3.R	3 5/8"	NONE	3 5/8" MTL STUDS UNDER THE CEILING		
S6.R	6"	NONE	6" MTL STUDS UNDER THE CEILING		

11 PARTITION TYPE - S- .R [TO CLG]
1" = 1'-0"



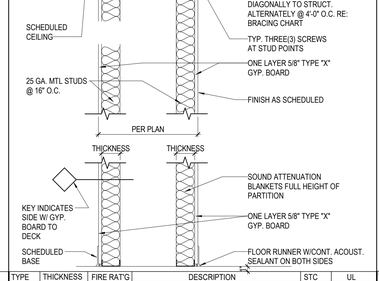
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
S3	3 5/8"	NONE	3 5/8" METAL STUDS TO DECK		
S3.1	3 5/8"	1 HR	3 5/8" METAL STUDS TO DECK		
S6	6"	NONE	6" METAL STUDS TO DECK		
S6.1	6"	1 HR	6" METAL STUDS TO DECK		
S3.CU	3 5/8"	NONE	3 5/8" METAL STUDS TO DECK W/ 4" CURB		
S6.CU	6"	NONE	6" METAL STUDS TO DECK W/ 4" CURB		

05 PARTITION TYPE - S [TO DECK]
1" = 1'-0"



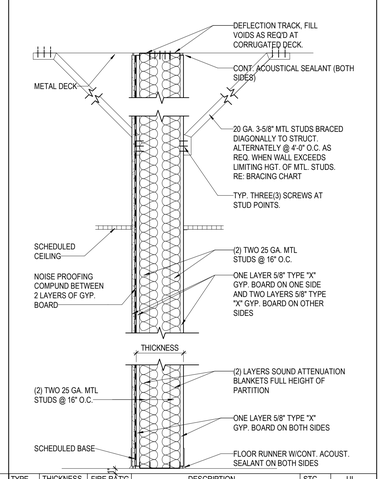
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
S33	3 5/8"&3 5/8"	NONE	3 5/8" METAL STUD TO DECK ONE SIDE		
S66	6" & 6"	NONE	6" METAL STUD TO DECK ONE SIDE		

10 PARTITION TYPE- S [CHASE WALL]
1" = 1'-0"



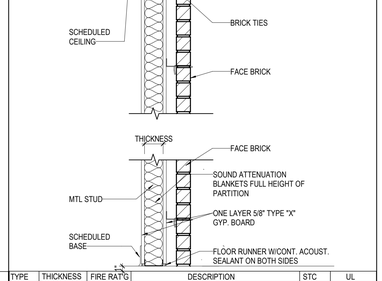
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
J4.2	4"	2HR	4" CH/I MTL STUD TO DECK		
J6.2	6"	2HR	6" CH/I MTL STUD TO DECK		

16 PARTITION TYPE - J SHAFT WALL
1" = 1'-0"



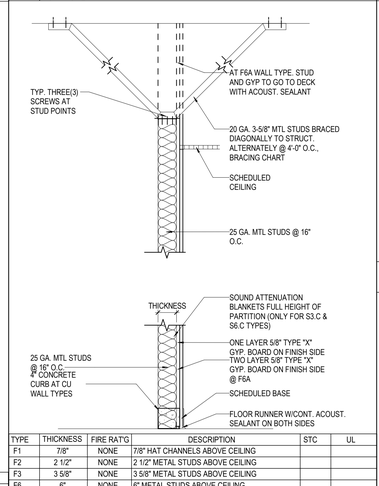
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
D33.1	3 5/8"&3 5/8"	1HR	2 LAYERS OF 3-5/8" MTL STUDS TO DECK		
D66.1	6"&6"	1HR	2 LAYERS OF 6" MTL STUDS TO DECK		

15 PARTITION TYPE - D DEMISING WALL
1" = 1'-0"



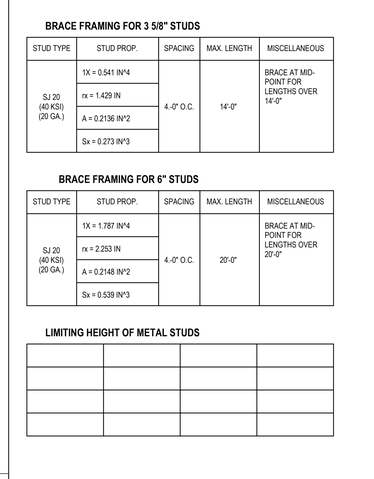
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
S3.F	3 5/8"	NONE	3 5/8" MTL STUD TO DECK		
S3.F1	3 5/8"	1HR	3 5/8" MTL STUD TO DECK		
S6.F	6"	NONE	6" MTL STUD TO DECK		
S6.F1	6"	1HR	6" MTL STUD TO DECK		

09 PARTITION TYPE S-.F [W BRICK FINISH]
1" = 1'-0"

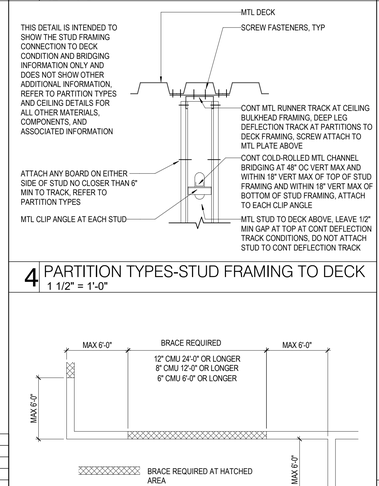


TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
F1	7/8"	NONE	7/8" HAT CHANNELS ABOVE CEILING		
F2	2 1/2"	NONE	2 1/2" METAL STUDS ABOVE CEILING		
F3	3 5/8"	NONE	3 5/8" METAL STUDS ABOVE CEILING		
F6	6"	NONE	6" METAL STUDS ABOVE CEILING		
F6A	6"	NONE	6" METAL STUDS TO DECK		
F3C	3 5/8"	NONE	3 5/8" METAL STUDS ABOVE CEILING W/ 4" CURB		
F3A.C	3 5/8"	NONE	3 5/8" METAL STUDS TO DECK W/ 4" CURB		

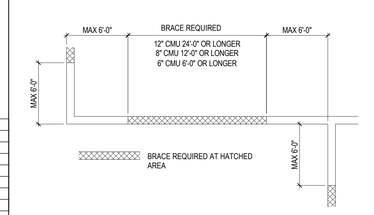
03 PARTITION TYPE - F [FURRING WALL]
1" = 1'-0"



02 PARTITION TYPES-TYP CMU WALL BRACING
1/2" = 1'-0"



04 PARTITION TYPE - S-.C [ABOVE CLG]
1" = 1'-0"



08 PARTITION TYPES-TYP DETAILS
12" = 1'-0"

BRACE FRAMING FOR 3 5/8" STUDS

STUD TYPE	STUD PROP.	SPACING	MAX. LENGTH	MISCELLANEOUS
SJ 20 (40 KSI) (20 GA.)	1X = 0.541 IN^4	4'-0" O.C.	14'-0"	BRACE AT MID-POINT FOR LENGTHS OVER 14'-0"
	rx = 1.429 IN			
	A = 0.2136 IN^2			
	Sx = 0.273 IN^3			

BRACE FRAMING FOR 6" STUDS

STUD TYPE	STUD PROP.	SPACING	MAX. LENGTH	MISCELLANEOUS
SJ 20 (40 KSI) (20 GA.)	1X = 1.787 IN^4	4'-0" O.C.	20'-0"	BRACE AT MID-POINT FOR LENGTHS OVER 20'-0"
	rx = 2.253 IN			
	A = 0.2148 IN^2			
	Sx = 0.539 IN^3			

LIMITING HEIGHT OF METAL STUDS

14 PARTITION TYPES-BRACING CHART
12" = 1'-0"

HOW TO USE THIS SHEET

1. NOT EVERY PARTITION TYPE SHOWN IS NECESSARILY INTENDED FOR USE ON THIS PROJECT, REFER TO FLOOR PLANS FOR REFERENCE MARKS INDICATING APPLICABLE PARTITION TYPES.
2. REFER TO BRACING DETAILS FOR SUPPORT OF THE TOP OF EACH PARTITION TYPE AND BRACING OF PARTITIONS THAT EXCEED LIMITING HEIGHT OF PARTITION TYPES.
3. REFER TO FINISH SCHEDULES FOR APPLIED FINISHES TO BOTH SIDES OF WALLS.
4. COORDINATE TOPS OF FINISHED WALLS WITH ADJACENT CEILING HEIGHTS PER SCHEDULES, SECTIONS AND OR DETAILS.
5. CONSULT ARCH. FOR ANY DISCREPANCIES OR QUESTIONS REGARDING PARTITIONS PRIOR TO INSTALLATION.

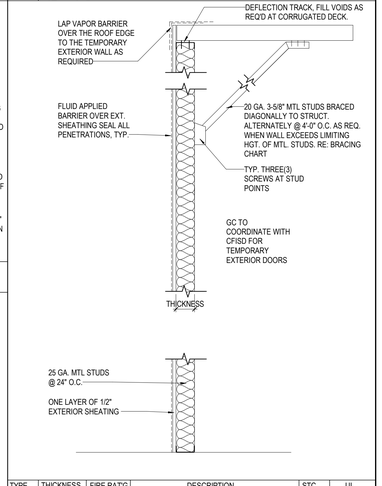
INTERIOR METAL STUD PARTITION NOTES

1. ALL METAL STUD PARTITIONS SHALL BE 25 GAUGE METAL STUDS AT 16" O.C. U.N.O., IF THE LIMITING HEIGHT FOR A 25 GAUGE METAL STUD PARTITION IS EXCEEDED, INCREASE GAUGE OF STUDS. NOTIFY ARCH. PRIOR TO INSTALLATION.
2. PROVIDE 20 GAUGE METAL STUDS, IN LIEU OF 25 GAUGE METAL STUDS, AT STUD WALL WITH TILE FINISHES.
3. METAL STUD PARTITION BRACING
   A. WHERE BRACING METHODS BETWEEN THIS SHEET AND STRUCT. CONFLICT, STRUCT. SHALL OVERRIDE, NOTIFY ARCH. PRIOR TO INSTALLATION
   B. PROVIDE INTERMEDIATE BRACING AT ALL METAL STUD PARTITIONS THAT EXCEED THE VERTICAL LIMIT HEIGHT OF METAL STUDS
   C. ALL BRACING SHALL BE AT STUD POINTS
4. SET ALL FLOOR TRACKS ON A CONTINUOUS RIBBON OF SEALANT.
5. USE CONT. DEEP LEG DEFLECTION TRACK AT TOP OF ALL PARTITION CONNECTIONS AT TOP-OF-DECK LOCATIONS, REFER TO "TYP STUD FRAMING TO DECK" DETAIL.
6. PROVIDE TILE BACKER BOARDS FULL HEIGHT AT ALL PARTITIONS WITH TILE ADJACENT TO PLUMBING FIXTURES AND TOILET ROOMS, EXCLUDING SHOWERS.
7. RIGIDLY BRACE ALL DOOR FRAMES AT THE HEAD, HINGE, AND STRIKE SIDES, RIGIDLY BRACE ALL WINDOW FRAMES AT THE HEAD, JAMBS, AND SILL.
8. LOCATE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AS FOLLOWS
   A. PARTITIONS OR FURRING EXCEEDING 30'-0" SPANS HORIZ. AND OR VERT.
   B. WHERE A PARTITION ABUTS A STRUCTURAL ELEMENT OR DISSIMILAR WALL
   C. AT CHANGES WITHIN PLANE OF PARTITION
   D. AT EXPANSION JOINTS
   E. AT BOTH JAMBS OF INTERIOR AND EXTERIOR DOOR FRAMES AND WINDOW FRAMES, ABOVE AND BELOW FOR FULL HEIGHT OF WALL
9. FIRE-RATED PARTITIONS
   A. REFER TO THE UL FIRE RESISTANCE DIRECTORY FOR DETAILED DESCRIPTIONS OF FIRE-RATED PARTITIONS
   B. PROVIDE TYPE "X" FIRE RESISTIVE GYPSUM BOARD, 5/8" THICK U.N.O.
   C. FILL ALL GAPS AND DECK VOIDS WITH CONT. FIRESAFING INSUL.
   D. SEAL BOTTOM OF PARTITION ON BOTH SIDES, PARTITION PERIMETER, AND ALL PENETRATIONS WITH CONT. FIRE-RATED SEALANT
10. PARTITIONS WITH SOUND ATTENUATION BATT INSUL. BLANKETS
    A. PROVIDE FULL THICK SOUND ATTENUATION BATT INSUL. BLANKETS FULL HEIGHT OF PARTITION U.N.O.
    B. FILL ALL GAPS AND DECK VOIDS WITH CONT. SOUND ATTENUATION SAFING INSUL.
    C. TAPE AND BED OR CAULK ALL JOINTS BETWEEN GYPSUM BOARD PANELS
    D. SEAL BOTTOM OF PARTITION ON BOTH SIDES, PARTITION PERIMETER, AND ALL PENETRATIONS WITH CONT. ACOUSTICAL SEALANT (USE SEALANT INDICATED IN ITEM ABOVE, IN LIEU OF ACOUSTICAL SEALANT, AT PARTITIONS DESIGNATED AS FIRE-RATED PARTITIONS)

INTERIOR CMU PARTITION NOTES

1. CMU PARTITION BRACING
   A. WHERE BRACING METHODS BETWEEN THIS SHEET AND STRUCT. CONFLICT, STRUCT. SHALL OVERRIDE, NOTIFY ARCH. PRIOR TO INSTALLATION.
   B. PROVIDE INTERMEDIATE BRACING AT ALL CMU PARTITIONS AT CONDITIONS AS INDICATED ON THE "PARTITION TYPES-TYP CMU WALL BRACING" DETAIL.
2. REFER TO WALL SECTIONS FOR THE USE OF STARTER COURSES AT THE BASE OF INTERIOR PARTITIONS.
3. PROVIDE CMU LINTELS FOR ALL OPENINGS IN INTERIOR CMU PARTITIONS, COORD. WITH STRUCT. DOCUMENTS.
4. PROVIDE 3/4" SPACE BETWEEN TOP OF CMU PARTITION AND STRUCTURE AND OR DECK ABOVE FOR POTENTIAL DEFLECTION, SEAL AS INDICATED ON PARTITION TYPE, OR AS INDICATED IN THESE NOTES.
5. REFER TO STRUCT. DOCUMENTS FOR ALL REINFORCING, BOND BEAM LOCATIONS, AND LINTEL SCHEDULES.
6. LOCATE CONTROL JOINTS IN CMU PARTITIONS AS FOLLOWS, U.N.O. BY STRUCT.
   A. PARTITIONS EXCEEDING 25'-0" IN PLAN LENGTH
   B. WHERE PARTITION ABUTS A STRUCTURAL ELEMENT OF DISSIMILAR WALL
   C. AT EXPANSION JOINTS
   D. REFER TO DETAILS FOR ADDITIONAL LOCATIONS
7. FIRE-RATED PARTITIONS
   A. REFER TO THE UL FIRE RESISTANCE DIRECTORY FOR DETAILED DESCRIPTIONS OF FIRE-RATED PARTITIONS
   B. FILL ALL GAPS AND DECK VOIDS WITH CONT. FIRESAFING INSUL.
   C. SEAL FIRE-RATED PARTITION PERIMETER AND ALL PENETRATIONS WITH CONT. FIRE-RATED SEALANT

07 PARTITION TYPES-TYP NOTES
12" = 1'-0"



TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
TX3	3 5/8"	-	3-5/8" MTL STUD TO ROOF EDGE		
TX6	6"	-	6" MTL STUD TO ROOF EDGE		

01 PARTITION TYPE TX- TEMPORARY EXTERIOR
1" = 1'-0"

PBK

ARCHITECT	PBK Architects, Inc.
HOUSTON	PBK.com
11 Greenway Plaza, 22nd Floor Houston, TX 77046 713-965-0608 P 713-961-4571 F TX Firm: BR 1608	

CIVIL
BROOKS & SPARKS T: 281-578-5998
LANDSCAPE EDDELAND GROUP T: 713-862-1666
STRUCTURAL KUBENKA ENGINEERS T: 713-840-7343
MEP/T LEAP T: 713-540-3300
ACOUSTIC SSA T: 512-476-3664
FOOD SERVICE TBD T: 281-356-2223
POOL/AQUATICS CONSULTANT NAME T: 000-000-0000

Arnold Middle School

11111 TEL GF RD.
CYPRESS TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT
BRANDON O. ROE
77540
STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

PARTITION TYPES - MTL STUDS

A-801A

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

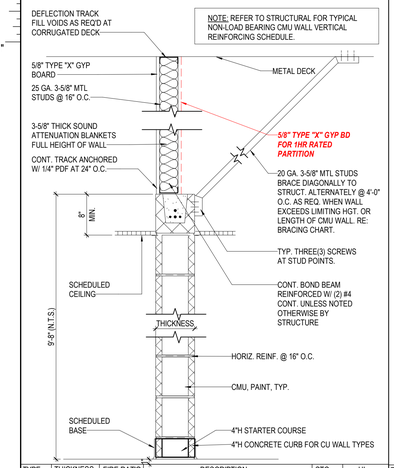
CHECKED BY: Checker
DRAWN BY: Author
Plot Stamp: 2/14/2025 8:42:12 AM

PARTITION TYPES - CMU

A-801B

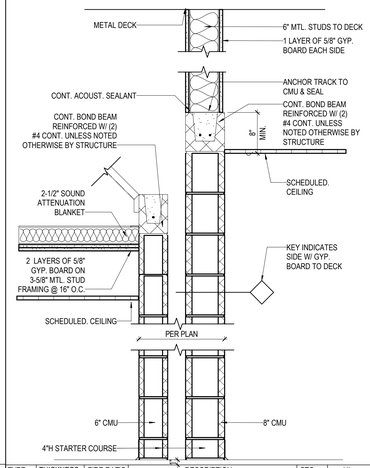
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



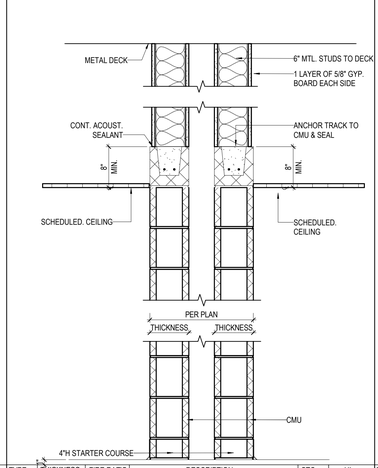
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
K6	5 5/8"	NONE	6" CMU WITH MTL STUDS TO DECK		
K6.1	5 5/8"	1HR	6" CMU WITH MTL STUDS TO DECK		
K8	7 5/8"	NONE	8" CMU WITH MTL STUDS TO DECK		
K8.1	7 5/8"	1HR	8" CMU WITH MTL STUDS TO DECK		
K10	9 5/8"	NONE	10" CMU WITH MTL STUDS TO DECK		
K10.1	9 5/8"	1HR	10" CMU WITH MTL STUDS TO DECK		
K12	11 5/8"	NONE	12" CMU WITH MTL STUDS TO DECK		
K12.1	11 5/8"	1HR	12" CMU WITH MTL STUDS TO DECK		
K6.CU	5 5/8"	NONE	4" CONCRETE CURB WITH 6" CMU WITH MTL STUDS TO DECK		

30 PARTITION TYPE K- [TO DECK]
1" = 1'-0"



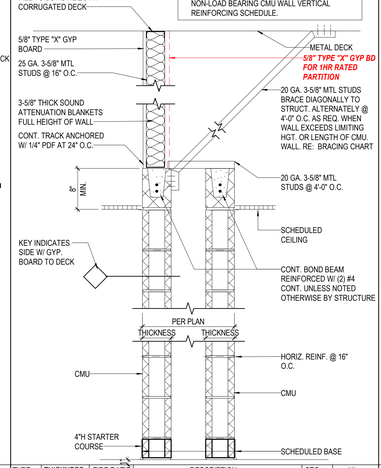
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
E6	5 5/8"&5 5/8"	NONE	6" CMU & 6" CMU W/FOAM INFILL, W/6"MTL STUDS		
E6	5 5/8"&7 5/8"	NONE	6" CMU & 8" CMU W/FOAM INFILL, W/6"MTL STUDS		

29 PARTITION TYPE E-- [SOUND WALL TO DECK]
1" = 1'-0"
SOUND WALL - FROM HIGH CLG TO LOW CLG SPACE



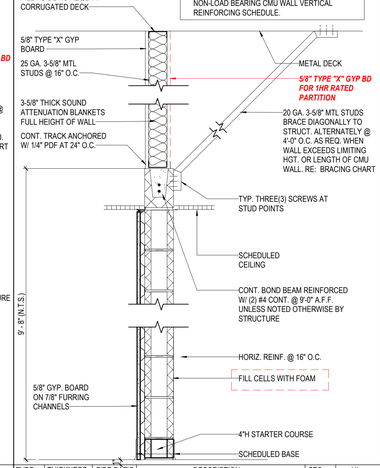
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
E8	7 5/8"&7 5/8"	NONE	DOUBLE WYTHE 8" CMU W/FOAM INFILL		
E8.1	7 5/8"&7 5/8"	1HR	DOUBLE WYTHE 8" CMU W/FOAM INFILL		
E10	9 5/8"&9 5/8"	NONE	DOUBLE WYTHE 10" CMU W/FOAM INFILL		
E10.1	9 5/8"&9 5/8"	1HR	DOUBLE WYTHE 10" CMU W/FOAM INFILL		

28 PARTITION TYPE E-[SOUND WALL TO DECK]
1" = 1'-0"
SOUND WALL - FROM HIGH CLG TO HIGH CLG SPACE



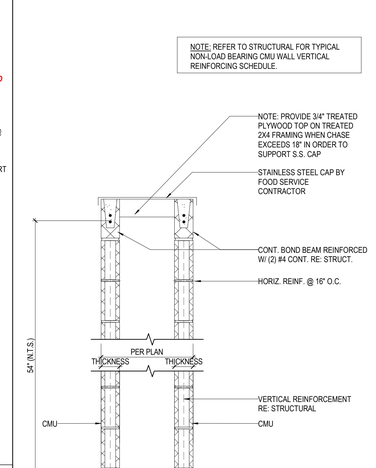
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
K44	3 5/8"&3 5/8"	NONE	DOUBLE WYTHE 4"CMU W MTL STUDS ABV		
K44.1	3 5/8"&3 5/8"	1HR	DOUBLE WYTHE 4" CMU W MTL STUDS ABV		
K46	3 5/8"&5 5/8"	NONE	DOUBLE WYTHE 4"&6" CMU W MTL STUDS ABV		
K46.1	3 5/8"&5 5/8"	1HR	DOUBLE WYTHE 4"&6" CMU W MTL STUDS ABV		
K66	5 5/8"&5 5/8"	NONE	DOUBLE WYTHE 6" CMU W MTL STUDS ABV		
K66.1	5 5/8"&5 5/8"	1HR	DOUBLE WYTHE 6" CMU W MTL STUDS ABV		

27 PARTITION TYPE K-- [CHASE WALL TO DECK]
1" = 1'-0"



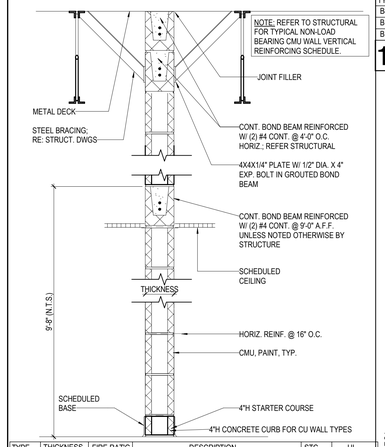
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
K6.F	5 5/8"	NONE	6" CMU WITH MTL STUDS TO DECK		
K6.F1	5 5/8"	1HR	6" CMU WITH MTL STUDS TO DECK		
K8.F	7 5/8"	NONE	8" CMU WITH MTL STUDS TO DECK		
K8.F1	7 5/8"	1HR	8" CMU WITH MTL STUDS TO DECK		
K10.F	9 5/8"	NONE	10" CMU WITH MTL STUDS TO DECK		
K10.F1	9 5/8"	1HR	10" CMU WITH MTL STUDS TO DECK		
K12.F	11 5/8"	NONE	12" CMU WITH MTL STUDS TO DECK		
K12.F1	11 5/8"	1HR	12" CMU WITH MTL STUDS TO DECK		

26 PARTITION TYPE K-.F [TO DECK W FINISH]
1" = 1'-0"



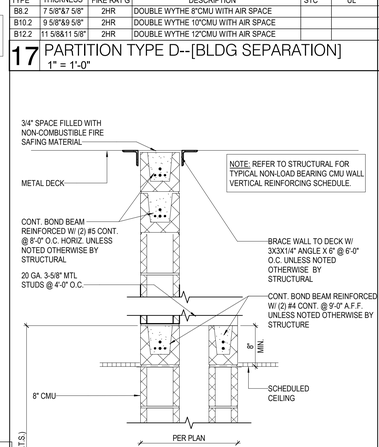
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
M44.P	3 5/8"&3 5/8"	NONE	DOUBLE WYTHE 4" CMU PARTIAL HEIGHT		
M46.P	3 5/8"&5 5/8"	NONE	DOUBLE WYTHE 4"&6" CMU PARTIAL HEIGHT		
M66.P	5 5/8"&5 5/8"	NONE	DOUBLE WYTHE 6" CMU PARTIAL HEIGHT		

25 PARTITION TYPE M--.P[PARTIAL CHASE WALL]
1" = 1'-0"



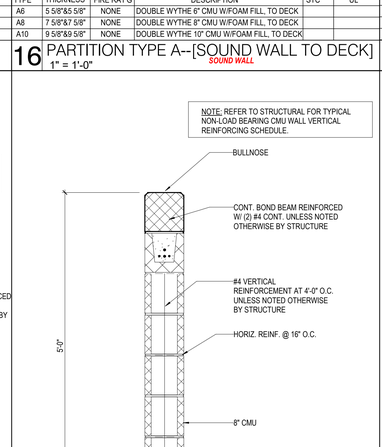
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
M6	5 5/8"	NONE	6" CMU TO DECK		
M6.1	5 5/8"	1HR	6" CMU TO DECK		
M6.2	5 5/8"	2HR	6" CMU TO DECK		
M8	7 5/8"	NONE	8" CMU TO DECK		
M8.1	7 5/8"	1HR	8" CMU TO DECK		
M8.2	7 5/8"	2HR	8" CMU TO DECK		
M10	9 5/8"	NONE	10" CMU TO DECK		
M10.1	9 5/8"	1HR	10" CMU TO DECK		
M10.2	9 5/8"	2HR	10" CMU TO DECK		
M12	11 5/8"	NONE	12" CMU TO DECK		
M12.1	11 5/8"	1HR	12" CMU TO DECK		
M6.CU	5 5/8"	NONE	6" CMU TO DECK WITH 4" CONCRETE CURB		
M6.C.CU	5 5/8"	NONE	6" CMU TO CEILING WITH 4" CONCRETE CURB		
M8.CU	7 5/8"	NONE	8" CMU TO DECK WITH 4" CONCRETE CURB		
M8.A	7 5/8"	NONE	8" CMU TO DECK SEALED WITH BLOCK FILLER		

06 PARTITION TYPE M- [TO DECK]
1" = 1'-0"



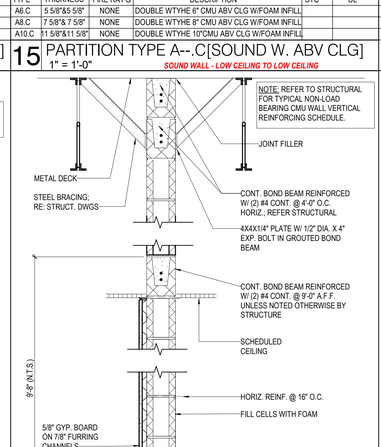
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
B8.2	7 5/8"&7 5/8"	2HR	DOUBLE WYTHE 8"CMU WITH AIR SPACE		
B10.2	9 5/8"&9 5/8"	2HR	DOUBLE WYTHE 10"CMU WITH AIR SPACE		
B12.2	11 5/8&11 5/8"	2HR	DOUBLE WYTHE 12"CMU WITH AIR SPACE		

17 PARTITION TYPE D--[BLDG SEPARATION]
1" = 1'-0"



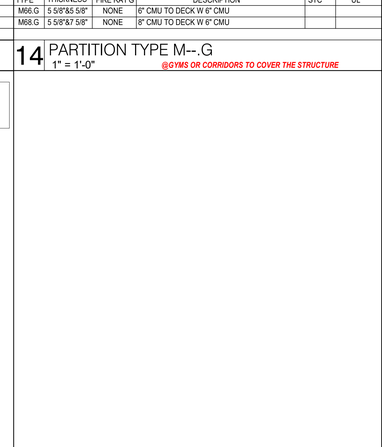
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
A6	5 5/8"&5 5/8"	NONE	DOUBLE WYTHE 6" CMU W/FOAM FILL, TO DECK		
A8	7 5/8"&7 5/8"	NONE	DOUBLE WYTHE 8" CMU W/FOAM FILL, TO DECK		
A10	9 5/8"&9 5/8"	NONE	DOUBLE WYTHE 10" CMU W/FOAM FILL, TO DECK		

16 PARTITION TYPE A--[SOUND WALL TO DECK]
1" = 1'-0"
SOUND WALL



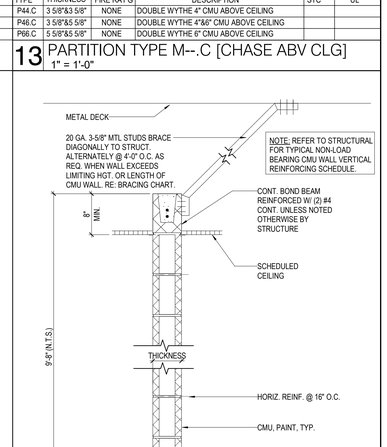
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
A6.C	5 5/8"&5 5/8"	NONE	DOUBLE WYTHE 6" CMU ABV CLG W/FOAM INFILL		
A8.C	7 5/8"&7 5/8"	NONE	DOUBLE WYTHE 8" CMU ABV CLG W/FOAM INFILL		
A10.C	9 5/8"&9 5/8"	NONE	DOUBLE WYTHE 10"CMU ABV CLG W/FOAM INFILL		

15 PARTITION TYPE A-.C[SOUND W. ABV CLG]
1" = 1'-0"
SOUND WALL - LOW CEILING TO LOW CEILING



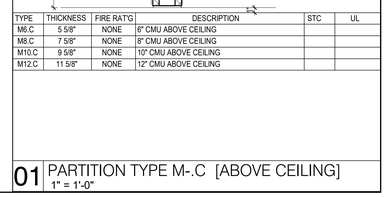
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
M6.F	5 5/8"	NONE	6" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M6.F1	5 5/8"	1 HR	6" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M6.F2	5 5/8"	2HR	6" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M8.F	7 5/8"	NONE	8" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M8.F1	7 5/8"	1 HR	8" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M8.F2	7 5/8"	2HR	8" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M10.F	9 5/8"	NONE	10" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M10.F1	9 5/8"	1 HR	10" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M10.F2	9 5/8"	2HR	10" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M12.F	11 5/8"	NONE	12" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M12.F1	11 5/8"	1 HR	12" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		
M12.F2	11 5/8"	2HR	12" CMU TO DECK WITH 5/8" GYP BD ONE SIDE		

03 PARTITION TYPE M-.F [TO DECK W FINISH]
1" = 1'-0"



TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
M66.G	5 5/8"&5 5/8"	NONE	6" CMU TO DECK W 6" CMU		
M68.G	5 5/8"&7 5/8"	NONE	8" CMU TO DECK W 6" CMU		

14 PARTITION TYPE M--.G
1" = 1'-0"
@GYMS OR CORRIDORS TO COVER THE STRUCTURE

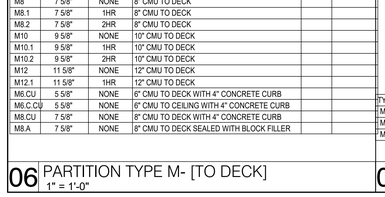


TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
P44.C	3 5/8"&3 5/8"	NONE	DOUBLE WYTHE 4" CMU ABOVE CEILING		
P46.C	3 5/8"&5 5/8"	NONE	DOUBLE WYTHE 4"&6" CMU ABOVE CEILING		
P66.C	5 5/8"&5 5/8"	NONE	DOUBLE WYTHE 6" CMU ABOVE CEILING		

13 PARTITION TYPE M--.C [CHASE ABV CLG]
1" = 1'-0"

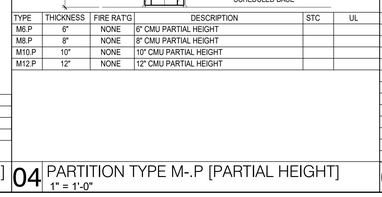
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
M8.C	5 5/8"	NONE	6" CMU ABOVE CEILING		
M8.C	7 5/8"	NONE	8" CMU ABOVE CEILING		
M10.C	9 5/8"	NONE	10" CMU ABOVE CEILING		
M12.C	11 5/8"	NONE	12" CMU ABOVE CEILING		

01 PARTITION TYPE M-.C [ABOVE CEILING]
1" = 1'-0"



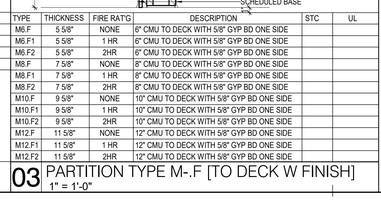
TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
M6P	6"	NONE	6" CMU PARTIAL HEIGHT		
M8P	8"	NONE	8" CMU PARTIAL HEIGHT		
M10.P	10"	NONE	10" CMU PARTIAL HEIGHT		
M12.P	12"	NONE	12" CMU PARTIAL HEIGHT		

04 PARTITION TYPE M-.P [PARTIAL HEIGHT]
1" = 1'-0"



TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
M68	5 5/8"7 5/8"	NONE	DOUBLE WYTHE 6" & 8" CMU ONE SIDE TO DECK		
M68.1	5 5/8"7 5/8"	1HR	DOUBLE WYTHE 6" & 8" CMU ONE SIDE TO DECK		
M68.2	5 5/8"7 5/8"	2HR	DOUBLE WYTHE 6" & 8" CMU ONE SIDE TO DECK		

05 PARTITION TYPE M--[CHASE WALL TO DECK]
1" = 1'-0"



TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC	UL
M6.P	6"	NONE	6" CMU PARTIAL HEIGHT		
M8.P	8"	NONE	8" CMU PARTIAL HEIGHT		
M10.P	10"	NONE	10" CMU PARTIAL HEIGHT		
M12.P	12"	NONE	12" CMU PARTIAL HEIGHT		

04 PARTITION TYPE M-.P [PARTIAL HEIGHT]
1" = 1'-0"

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TX Firm: BR 1608

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BROKE & SPARKS
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LANDSCAPE
EDDELAND GROUP
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STRUCTURAL
KUBR ENGINEERS
T: 713-840-7343
MEP/T
LEAP
T: 713-540-3300
ACOUSTIC
T: 512-476-3664
FOOD SERVICE
T: 281-256-2223
POOL/AQUATICS CONSULTANT NAME
T: 000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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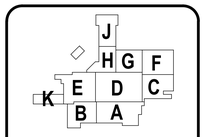


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

PARTITION TYPES - CMU

A-801B

PARTITION TYPES

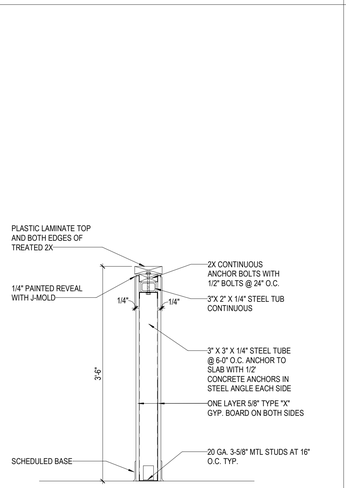
A-801C

FOR BLUEBEAM LABELING/OCR:

0"

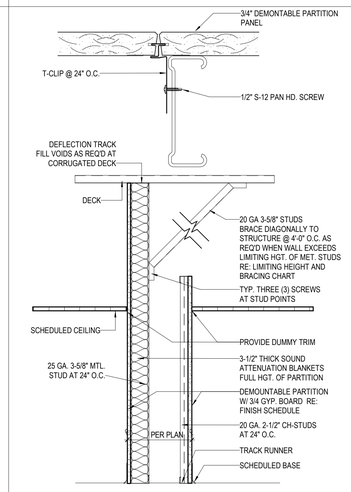
1"

ISSUE FOR PROPOSAL



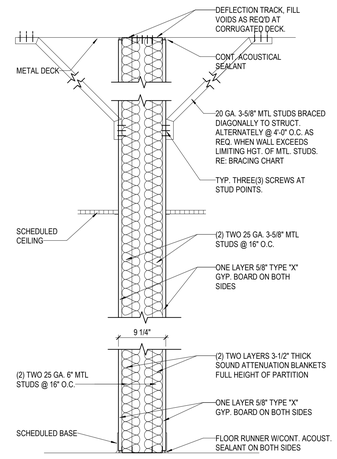
TYPE	FIRE RAT'G	DESCRIPTION
S16	NONE	3-5/8" MTL STUD PARTIAL HEIGHT WITH PLAM CAP

10 PARTITION TYPE S16
1" = 1'-0"



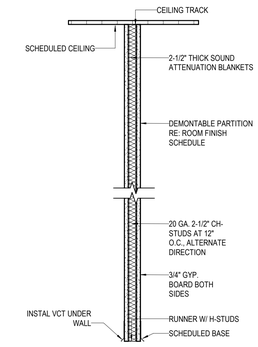
TYPE	FIRE RAT'G	DESCRIPTION
S15	NONE	DEMOUNTABLE PARTITION CHASE WALL

09 PARTITION TYPE S15
1" = 1'-0"



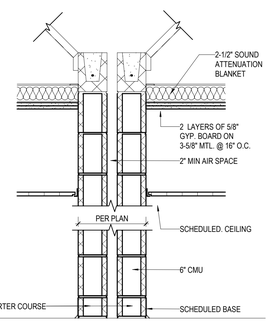
TYPE	FIRE RAT'G	DESCRIPTION
S14	ONE HOUR	W/ (2) TWO LAYERS OF 3-1/2" SOUND ATTENUATION INSULATION

08 PARTITION TYPE S14
1" = 1'-0"



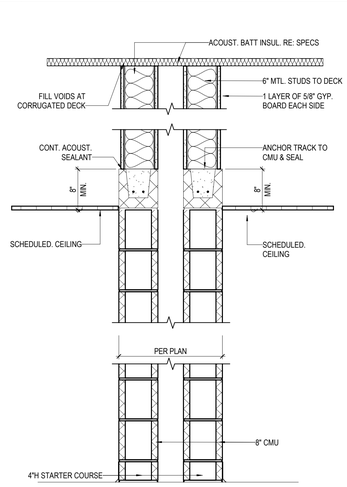
TYPE	FIRE RAT'G	DESCRIPTION
S13	NONE	WITH SOUND ATTENUATION BLANKETS
S13A	ONE HOUR	WITH SOUND ATTENUATION BLANKETS WITH FIRE-RATED CEILING

07 PARTITION TYPE S13
1" = 1'-0"



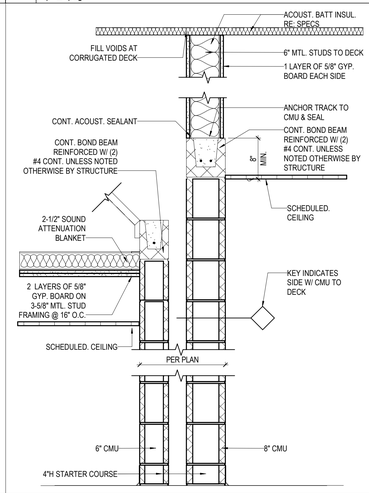
TYPE	FIRE RAT'G	DESCRIPTION
M23	NONE	6" CMU WITH 6" CMU

05 PARTITION TYPE M23
1" = 1'-0"



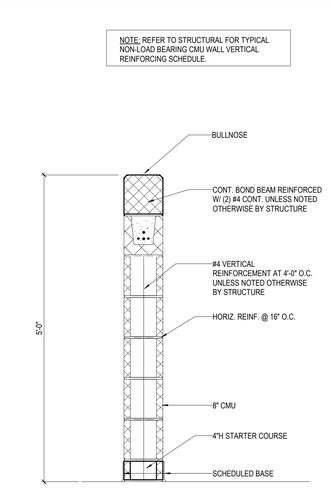
TYPE	FIRE RAT'G	DESCRIPTION
M22	NONE	8" CMU WITH 8" CMU WITH 6" METAL STUD ABOVE

04 PARTITION TYPE M22
1" = 1'-0"



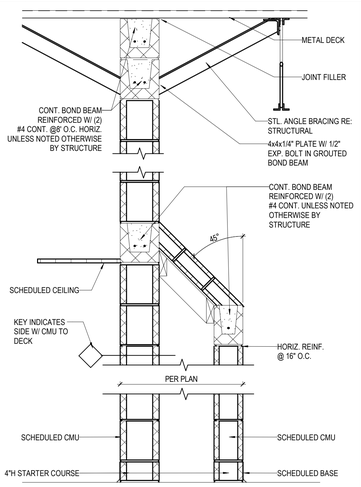
TYPE	FIRE RAT'G	DESCRIPTION
M21	NONE	6" CMU WITH 6" CMU
M21A	NONE	8" CMU WITH 6" CMU

03 PARTITION TYPE M21
1" = 1'-0"



TYPE	FIRE RAT'G	DESCRIPTION
M20	NONE	8" CMU PARTIAL HEIGHT

02 PARTITION TYPE M20
1" = 1'-0"



TYPE	FIRE RAT'G	DESCRIPTION
M19	NONE	6" CMU TO DECK WITH 6" CMU
M19A	NONE	8" CMU TO DECK WITH 6" CMU

01 PARTITION TYPE M19
1" = 1'-0"

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POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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KEY PLAN

NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

PARTITION TYPES

A-801C

0"
1"

DOORS - WINDOWS PANEL & FRAME TYPES

A-811

FOR BLUEBEAM LABELING:DOOR:

PROPOSAL

ISSUE FOR PR

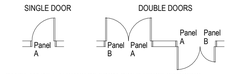
MATERIALS

AL - ALUMINUM	**VL -** VINYL
HM - HOLLOW METAL	**PL -** PLASTIC LAMINATE
HG - HOLLOW METAL GALV	**WS -** WOOD, SOLID CORE
HS - HM 24 GA. STEEL	**WH -** WOOD, HOLLOW CORE
SS - STAINLESS STEEL	**PTD# -** PAINTED TYPE

REMARKS LEGEND

1. WITH EGRESS DEVICE
2. MAGNETTIC DOOR HOLDER
3. FIRE DOOR
4. ELEVATOR MACHINE ROOM DOORS
5. ELECTRICAL ROOM DOORS
6. KICK PLATE ON BOTH SIDES
7. ACCESS PANEL DOOR
8. WITH CLOSER

DOOR PANEL LEGEND



PANEL "A" WILL ALWAYS BE FROM RIGHT HINGE SWINGING OUTWARD, & THE LARGEST PANEL ON AN UNEVEN DESIGN.

ON SLIDING/AUTOMATIC DOORS PANEL "A" WILL ALWAYS BE THE SLIDER, & PANEL "B" WILL ALWAYS BE THE FIX PANEL.

FRAME CONFIGURATION

LEGEND:

###(X) – **X - OTHER IDENTIFIER PER ELEVATION TYPES**

(C)

C - CENTER MULLION
MAIN PROFILE TYPE (SEE ELEVATIONS)
NUMBER OF SIDE LITES
TRANSOMS EXIST

TRANSOM:

0 - No Transom
1 - Has Transom

SIDELITE:

0 - No Sidelite
1 - 1 Sidelite
2 - 2 Sidelites

19 DOOR ASSEMBLY LEGEND

GLASS TYPES

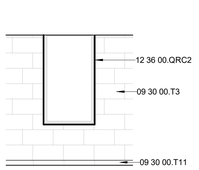
GL1 – 1" THERMALLY INSULATED GLASS

SG1 – 3/8" CHILDGUARD INSULATED WITH GUARDIAN FRAMING (EXTERIOR HARDENING)

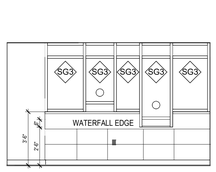
SG2 – 3/8" CHILDGUARD NON INSULATED AT ALL OTHER INTERIOR SPACES

SG3 – 9/16" CHILDGUARD, NON INSULATED GLASS – AT HARDENED RECEPTION /MAIN ENTRY

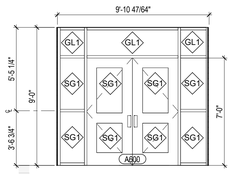
GT1 – ¼" TEMPERED GLASS, TYPE 1 - CLEAR



16 TYP. WINDOW @ J301 EAST ELEVATION
1/4" = 1'-0"

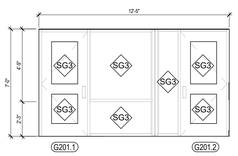


15 G201 FRONT RECEPTION CW
1/4" = 1'-0"



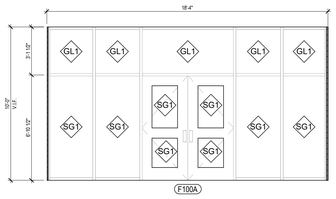
14 CW-4
1/4" = 1'-0"

13 WINDOW ASSEMBLY LEGEND



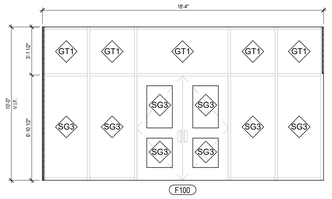
EXISTING FRAME TO REMAIN, GLASS TO BE REPLACED

12 CW-3
1/4" = 1'-0"



EXISTING FRAME TO REMAIN, GLASS TO BE REPLACED

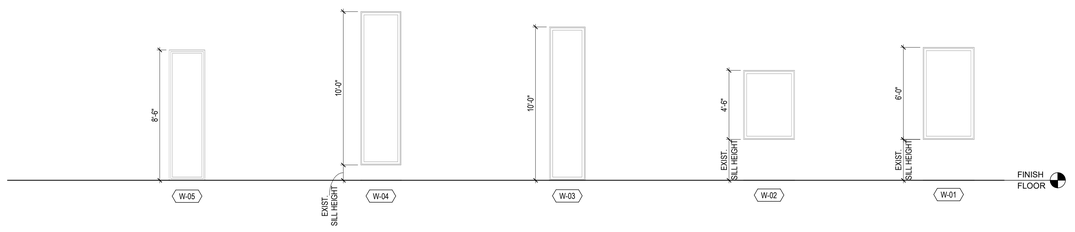
11 CW-2
1/4" = 1'-0"



EXISTING FRAME TO REMAIN, GLASS TO BE REPLACED

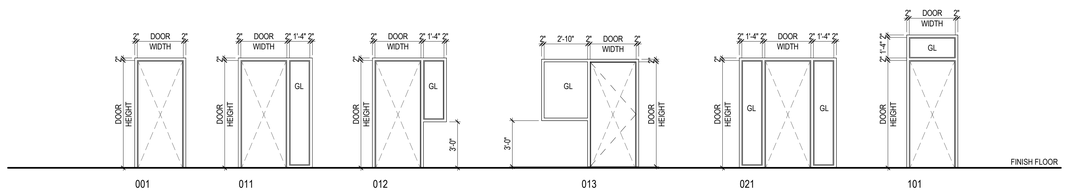
10 CW-1
1/4" = 1'-0"

PROVIDE SECURTIY FILM AT WINDOW AND DOOR GLAZING. RE: SPECS

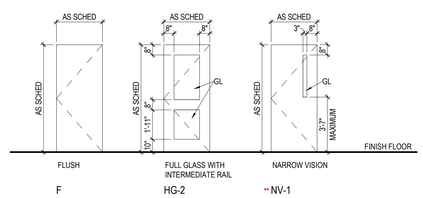


09 EXTERIOR WINDOW FRAME ELEVATIONS

06 G201A CORRIDOR WEST - AREA G
1/4" = 1'-0"



05 DOOR FRAME CONFIGURATIONS



GLAZING AT DOOR TO MATCH ADJACENT GLASS TYPE.

02 DOOR PANEL TYPES

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KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT
RAYMOND D. WINN
27340
STATE OF TEXAS

01.20.2025

CLIENT
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02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

DOORS - WINDOWS PANEL & FRAME TYPES

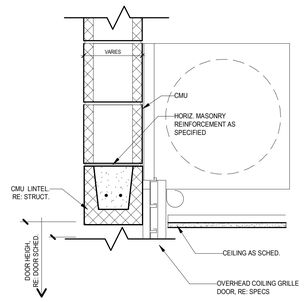
A-811

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

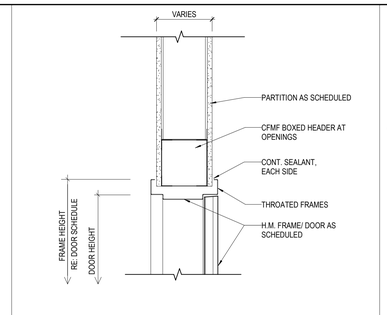
CHECKED BY:
Checker
DRAWN BY:
Author
Plot Stamp:
2/14/2025 10:53:40 AM

DOOR DETAILS
A-812
FOR BLUEBEAM LABELING:

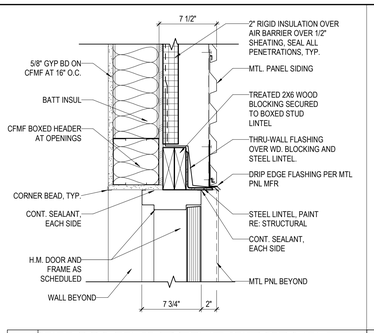
0"
1"



29 INT-COILING GRILLE DOOR HEADER 1 - CMU
1 1/2" = 1'-0"



28 ALUM/HM DOOR HEAD @ CFMF (INTERIOR)
1 1/2" = 1'-0"



27 HM DOOR HEAD @ MTL PNL ON CFMF
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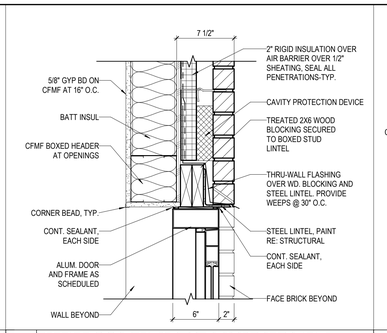

26 ALUM DOOR HEAD @ BRICK ON CFMF
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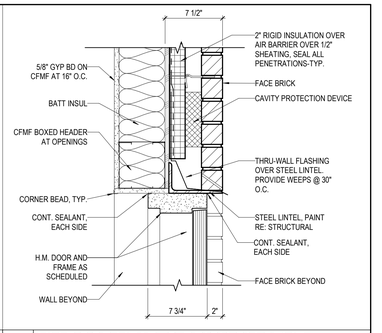

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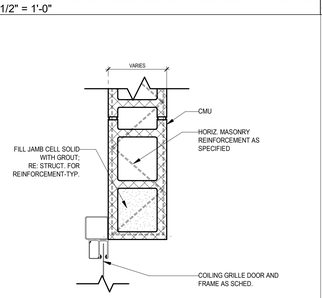

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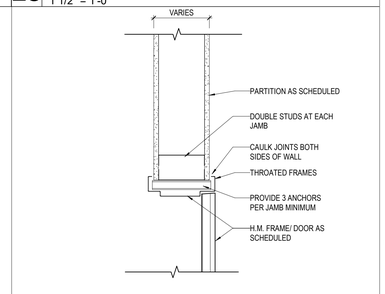

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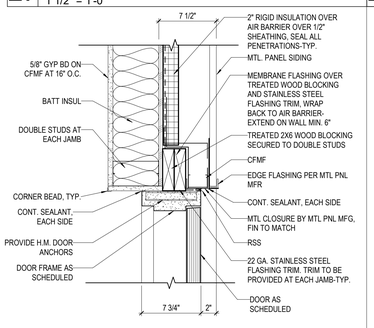

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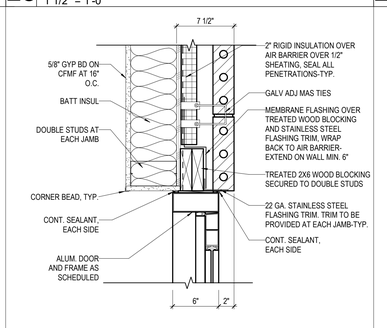

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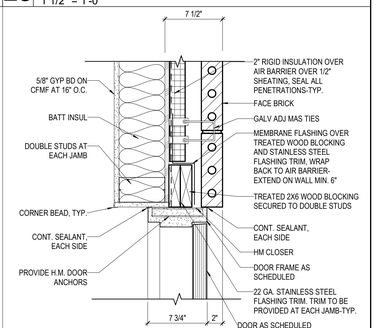

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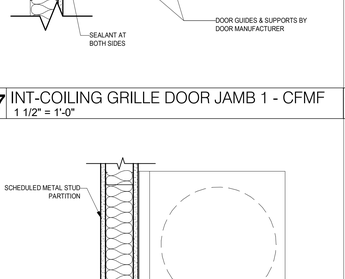
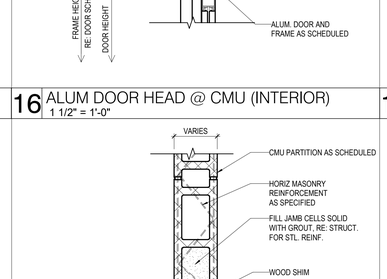


17 INT-COILING GRILLE DOOR JAMB 1 - CFMF
1 1/2" = 1'-0"



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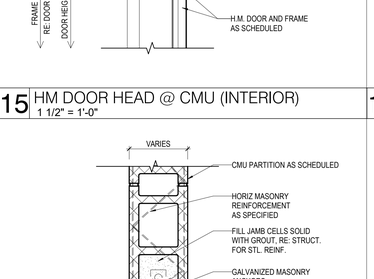

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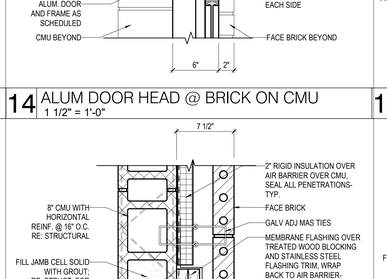

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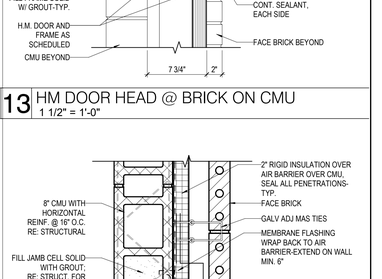
1 1/2" = 1'-0"



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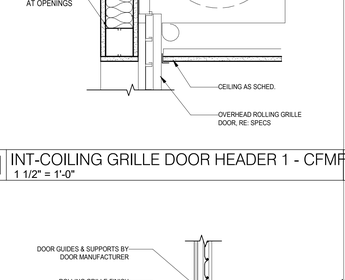
1 1/2" = 1'-0"



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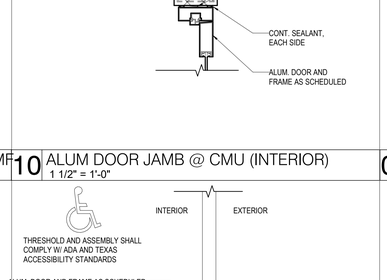
1 1/2" = 1'-0"



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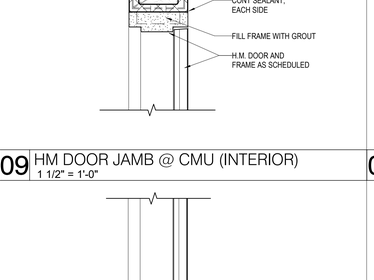
1 1/2" = 1'-0"



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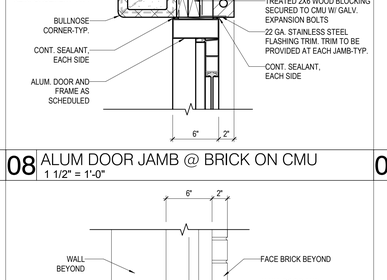

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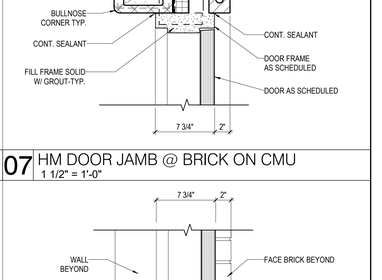

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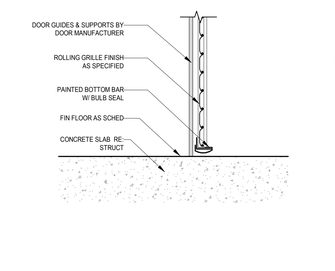

05 INT-COILING GRILLE DOOR THR 1
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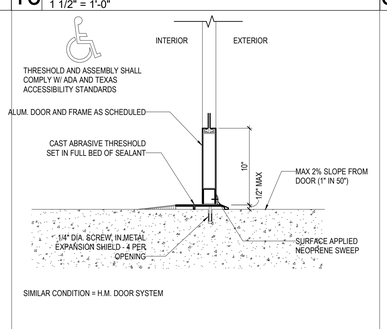

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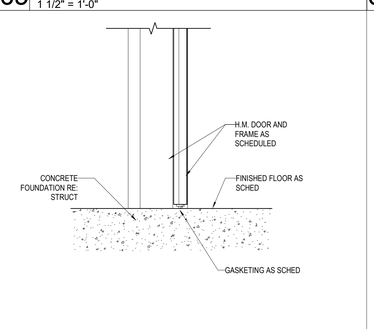

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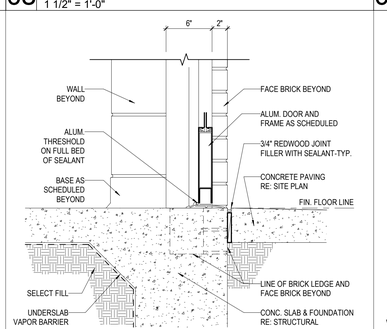
1 1/2" = 1'-0"



02 ALUM DOOR SILL @ BRICK ON CMU
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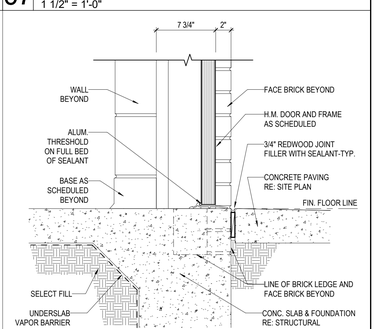


01 HM DOOR SILL @ BRICK ON CMU
1 1/2" = 1'-0"

ISSUE FOR PROPOSAL

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

CHECKED BY:
Checker
DRAWN BY:
Author
Plot Stamp:
2/14/2025 8:43:03 AM

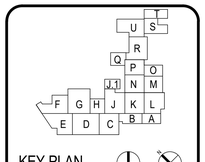
PBK

ARCHITECT
PBK Architects, Inc.
PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
BROOKS & SPARKS
T 281-676-9500
WATERPROOFING
BEAM
T 713-690-8989
STRUCTURAL
KUBOSKI ENGINEERS
T 713-840-7343
MEP/T
LEAF ENGINEERS
T 713-840-3300
ACOUSTIC
ARTS
T 281-893-8618
THEATER
SCHALLER SHOOK
T 214-747-8300
FOOD SERVICE
FOODSERVICE DESIGN
T 281-550-2023
GEOTECHNICAL
TERRACON CONSULTANTS, INC.
T 713-690-8989

Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT
BRANDON D. WOOD
17540
STATE OF TEXAS
02/17/2025

CLIENT
Cy-Fair Independent School District
DATE
02/17/2025
PROJECT NUMBER
220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

DOOR DETAILS

A-812

WINDOW & LOUVER DETAILS

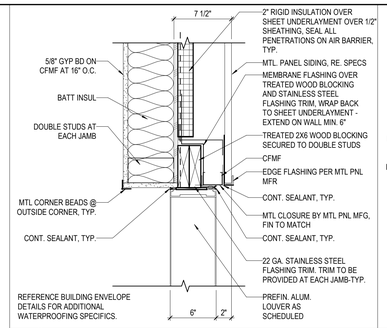
A-831

FOR BLUEBEAM LABELING/OCR:

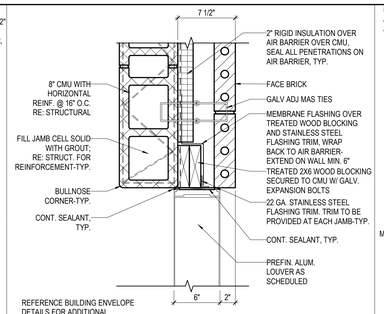
0"

1"

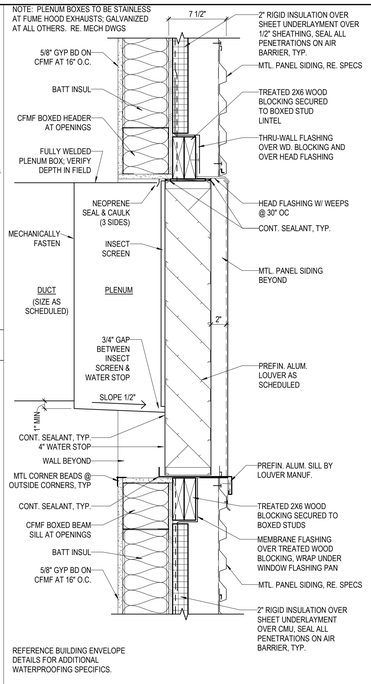
ISSUE FOR PROPOSAL



29 ALUM LOUVER JAMB @ MTL PNL ON CFMF
1 1/2" = 1'-0"



28 ALUM LOUVER JAMB @ BRICK ON CMU
1 1/2" = 1'-0"



21 ALUM LOUVER HEAD/SILL@MTL PNL/CFMF
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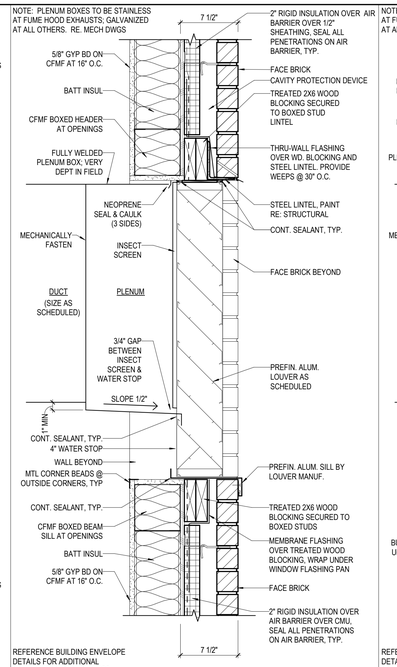

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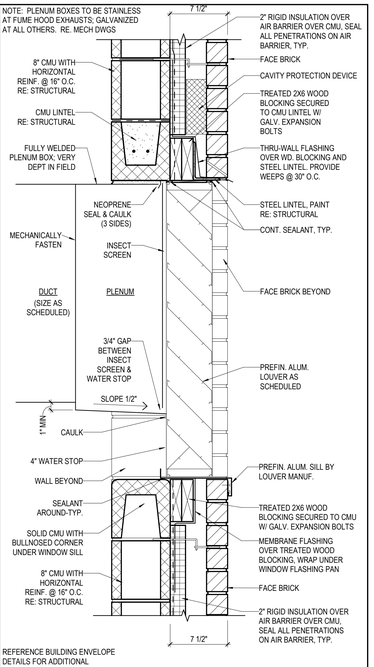
1 1/2" = 1'-0"



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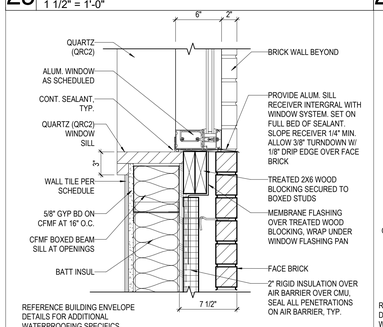
1 1/2" = 1'-0"



23 QUARTZ WINDOW SILL
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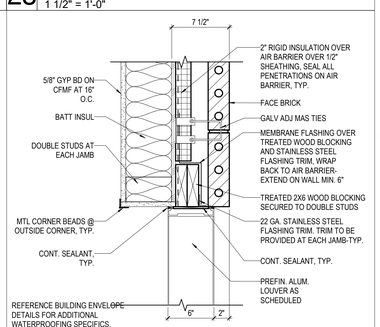

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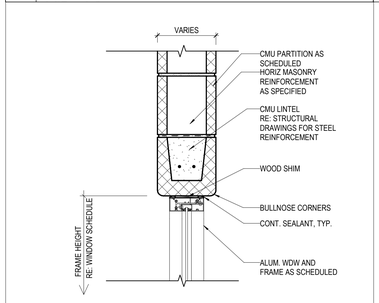

17 ALUM WINDOW HEAD @ CMU (INTERIOR)
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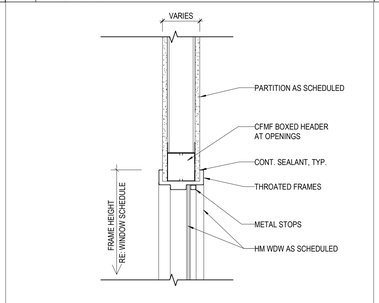
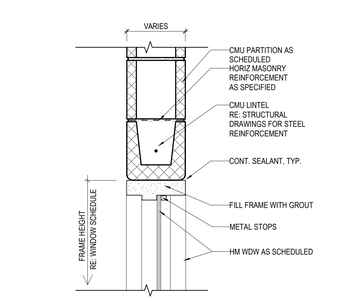
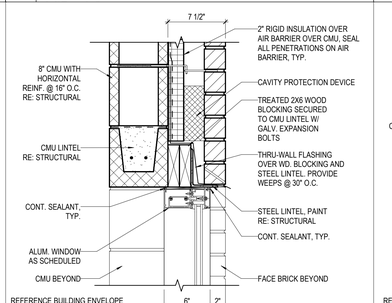


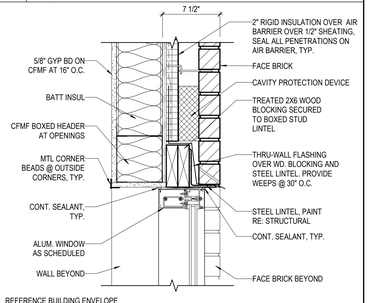
16 ALUM/HM WINDOW HEAD @CFMF(INTERIOR)
1 1/2" = 1'-0"



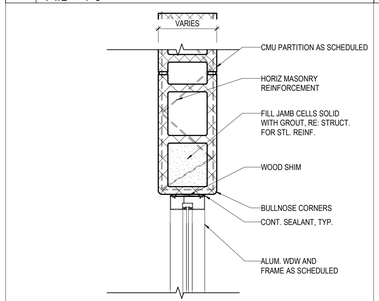
15 HM WINDOW HEAD @ CMU (INTERIOR)
1 1/2" = 1'-0"



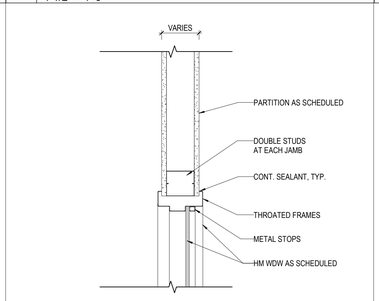
14 ALUM WINDOW HEAD @ BRICK ON CMU
1 1/2" = 1'-0"



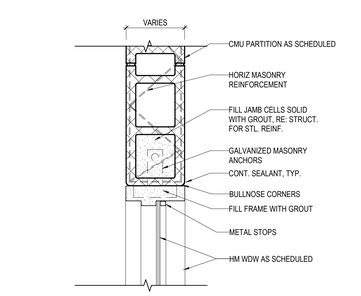
13 ALUM WINDOW HEAD @ BRICK ON CFMF
1 1/2" = 1'-0"



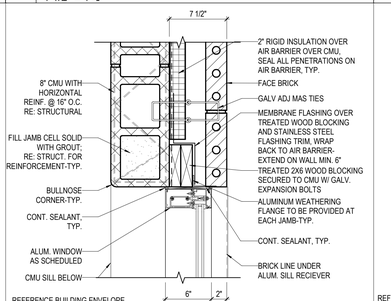
11 ALUM WINDOW JAMB @ CMU (INTERIOR)
1 1/2" = 1'-0"



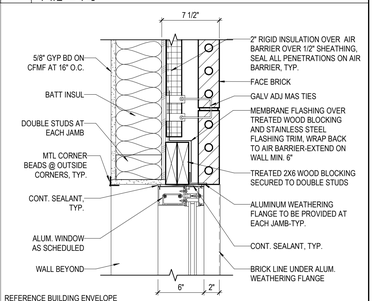
10 ALUM/HM WINDOW JAMB @CFMF(INTERIOR)
1 1/2" = 1'-0"



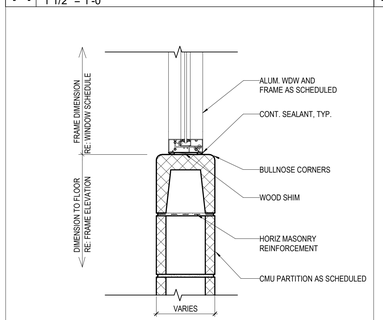
09 HM WINDOW JAMB @ CMU (INTERIOR)
1 1/2" = 1'-0"



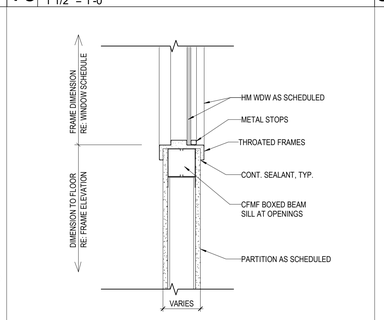
08 ALUM WINDOW JAMB @ BRICK ON CMU
1 1/2" = 1'-0"



07 ALUM WINDOW JAMB @ BRICK ON CFMF
1 1/2" = 1'-0"



05 ALUM WINDOW SILL @ CMU (INTERIOR)
1 1/2" = 1'-0"



04 ALUM/HM WINDOW SILL @CFMF(INTERIOR)
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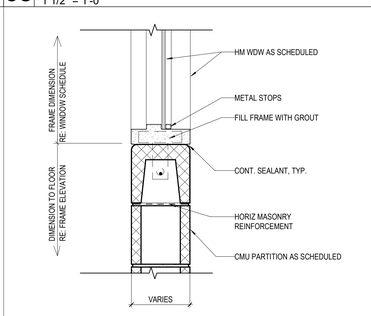

03 HM WINDOW SILL @ CMU (INTERIOR)
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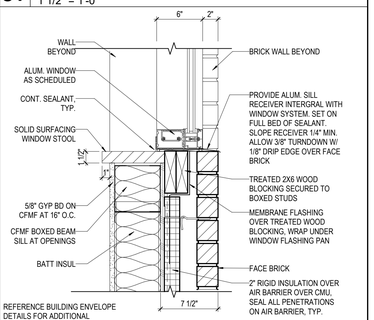

02 ALUM WINDOW SILL @ BRICK ON CMU
1 1/2" = 1'-0"

01 ALUM WINDOW SILL @ BRICK ON CFMF
1 1/2" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

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Checker
DRAWN BY:
Author
Plot Stamp:
2/14/2025 10:53:40 AM

PBK

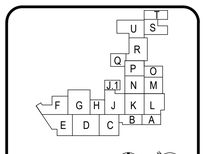
ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
BROOKS & SPARKS
281-478-9999
WATERPROOFING
BEAM
713-690-8989
STRUCTURAL
KUBENKA ENGINEERS
713-840-7343
MEP/T
LEAF ENGINEERS
713-840-3300
ACOUSTIC
RSH
713-993-8618
THEATER
SCHALLER SHOCK
214-747-9300
FOOD SERVICE
FOODSERVICE DESIGN
281-350-2022
GEOTECHNICAL
TERRACON CONSULTANTS, INC.
713-690-8989

Arnold Middle School

11111 TEL GEF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



DISCIPLINE

02/17/2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

WINDOW & LOUVER DETAILS

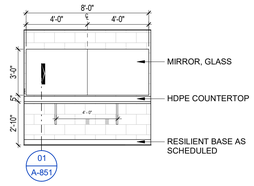
A-831

CASEWORK ELEVATIONS

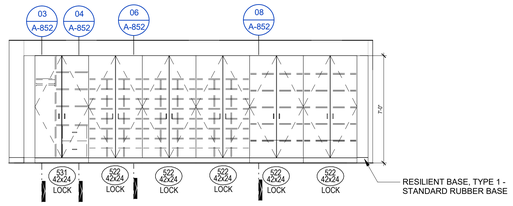
A-841

FOR BLUEBEAM LABELING/OOR:

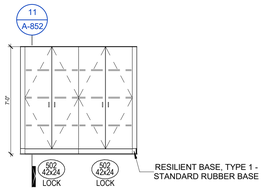
ISSUE FOR PROPOSAL



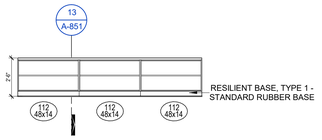
30 D704 GIRLS P.E. LOCKER COUNTERTOP
1/4" = 1'-0"



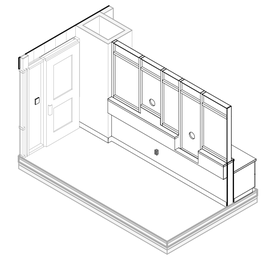
29 G237 SEWING CASEWORK - WEST
1/4" = 1'-0"



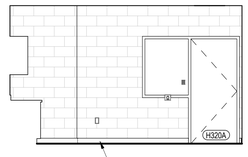
27 SEWING STORAGE CLOSET - EAST
1/4" = 1'-0"



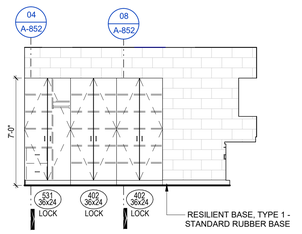
26 TYP. CLASSROOM CASEWORK SHELVING
1/4" = 1'-0"



25 RECEPTION 3D



24 H320A ORCHESTRA OFFICE SOUTH
1/4" = 1'-0"



23 H320A ORCHESTRA OFFICE - NORTH
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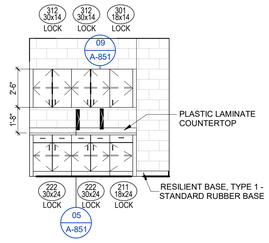

22 H320A ORCHESTRA OFFICE - EAST
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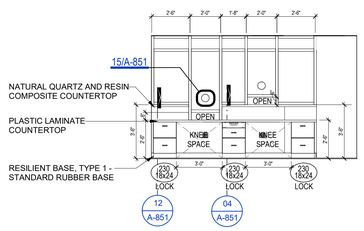
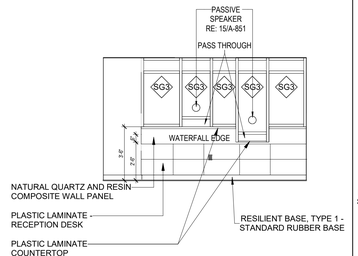
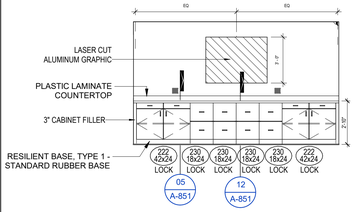


21 G201A RECEPTION - NORTH
1/4" = 1'-0"



20 G201 FRONT RECEPTION PASSTHROUGH
1/4" = 1'-0"



19 G201A RECEPTION - SOUTH
1/4" = 1'-0"

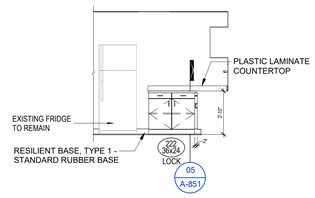
18 A917 - CHOIR OFFICE
1/4" = 1'-0"

17 H307 - SPEC. EDU. OFFICE - SOUTH
1/4" = 1'-0"

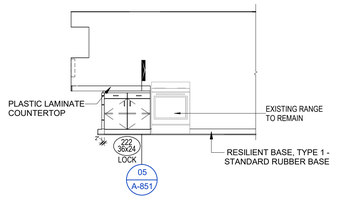
15 TYP. CLASSROOM CASEWORK REVERSE
1/4" = 1'-0"

14 TYP. CLASSROOM CASEWORK
1/4" = 1'-0"

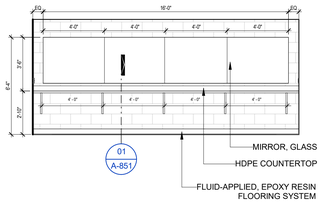
13 TYP. TEACHING CABINET
1/4" = 1'-0"



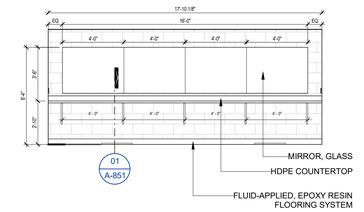
12 H308 LIFE SKILLS - SOUTH
1/4" = 1'-0"



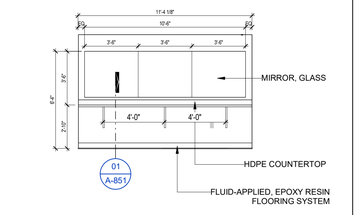
11 H308 LIFE SKILLS - NORTH
1/4" = 1'-0"



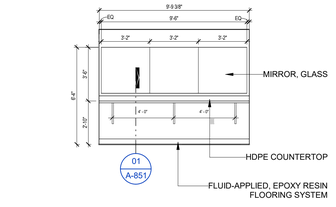
10 D612 LOCKER COUNTERTOP
1/4" = 1'-0"



09 D605 BOYS P.E. LOCKER COUNTERTOP
1/4" = 1'-0"



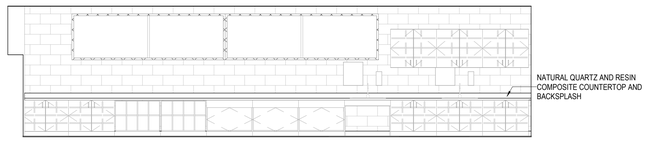
08 C705 GIRLS ATH. LOCKER COUNTERTOP
1/4" = 1'-0"



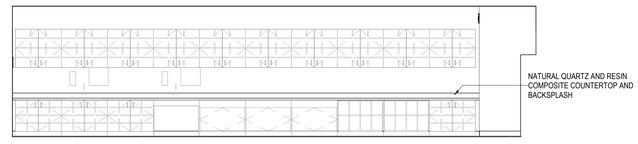
07 C704 GIRLS P.E. LOCKER COUNTERTOP
1/4" = 1'-0"

06 H308 LIFE SKILLS - WEST
1/4" = 1'-0"

05 H308 LIFE SKILLS CASEWORK - EAST
1/4" = 1'-0"



04 B924 ART - SOUTH
1/4" = 1'-0"



02 B922 ART - NORTH
1/4" = 1'-0"

ISSUE FOR PROPOSAL

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Author
Plot Stamp:
2/14/2025 8:44:47 AM

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
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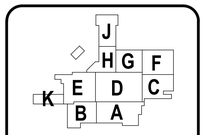
LANDSCAPE
EDDELEND GROUP
T 713-862-1000
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7342
MEP/T
LEAP
T 713-540-3320
ACOUSTIC
SLA
T 512-476-3654
FOOD SERVICE
SWA
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

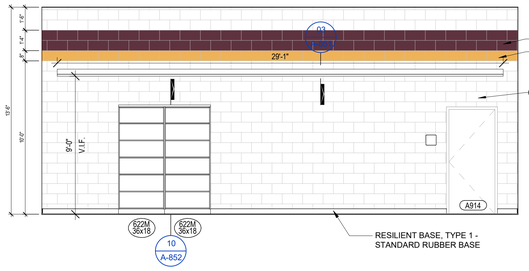
CASEWORK ELEVATIONS

A-841

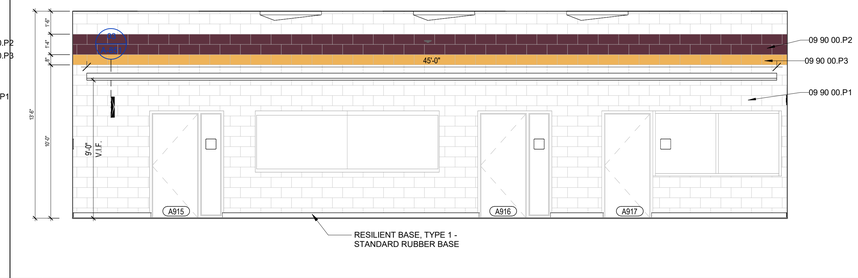
CASEWORK ELEVATIONS
A-842
FOR BLUEBEAM LABELING OOR:

ISSUE FOR PROPOSAL

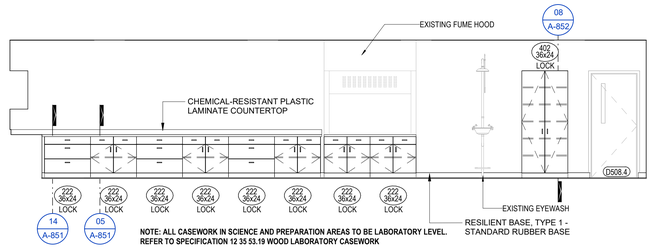
0"
1"



30 CHOIR A913 - EAST
1/4" = 1'-0"



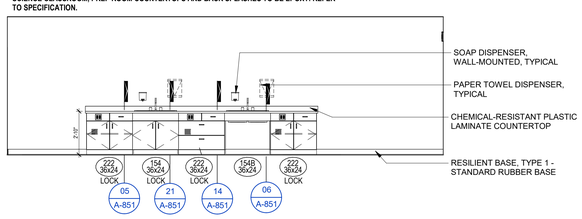
28 CHOIR A913 - SOUTH
1/4" = 1'-0"



NOTE: ALL CASEWORK IN SCIENCE AND PREPARATION AREAS TO BE LABORATORY LEVEL. REFER TO SPECIFICATION 12 35 53.19 WOOD LABORATORY CASEWORK

ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

26 D505 - SCIENCE - EAST
1/4" = 1'-0"



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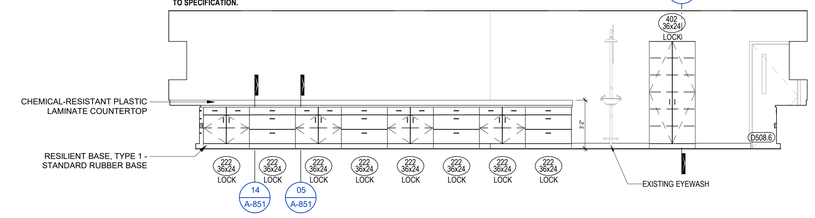
ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

24 TYP. SCIENCE C - NORTH
1/4" = 1'-0"



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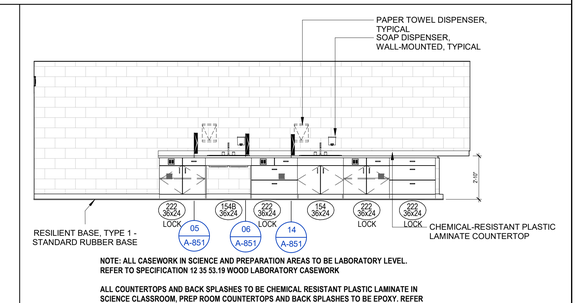
ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

22 TYP. SCIENCE C - WEST
1/4" = 1'-0"



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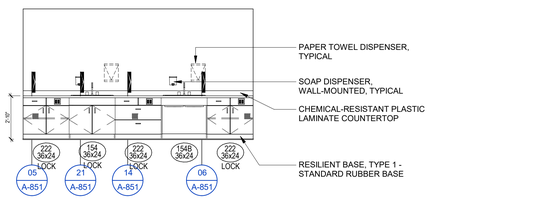
ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

19 TYP. SCIENCE C - SOUTH
1/4" = 1'-0"



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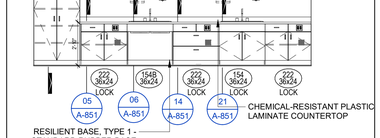
ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

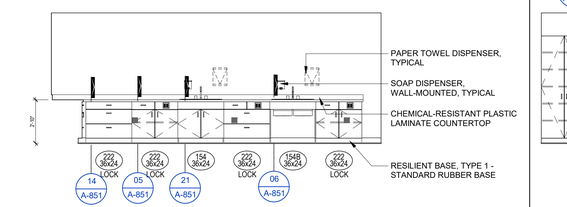
18 TYP. SCIENCE A - NORTH
1/4" = 1'-0"



NOTE: ALL CASEWORK IN SCIENCE AND PREPARATION AREAS TO BE LABORATORY LEVEL. REFER TO SPECIFICATION 12 35 53.19 WOOD LABORATORY CASEWORK

ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

16 TYP. SCIENCE A - SOUTH
1/4" = 1'-0"



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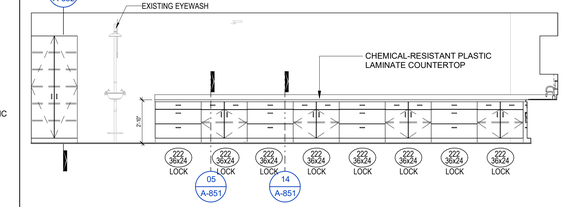
ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

15 TYP. SCIENCE B - NORTH
1/4" = 1'-0"



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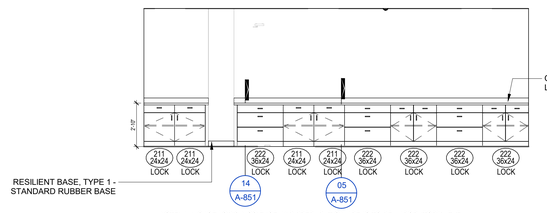
ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

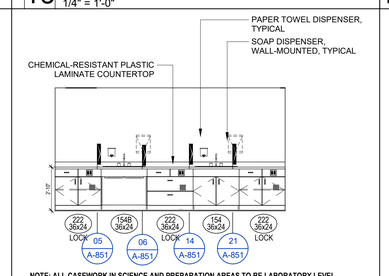
14 TYP. SCIENCE B - WEST
1/4" = 1'-0"



NOTE: ALL CASEWORK IN SCIENCE AND PREPARATION AREAS TO BE LABORATORY LEVEL. REFER TO SPECIFICATION 12 35 53.19 WOOD LABORATORY CASEWORK

ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

12 TYP. SCIENCE A - WEST
1/4" = 1'-0"



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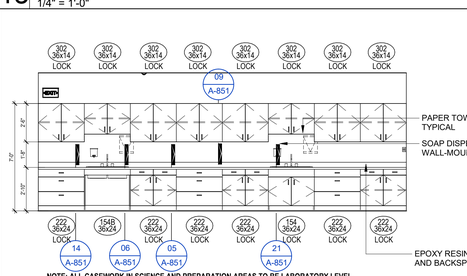
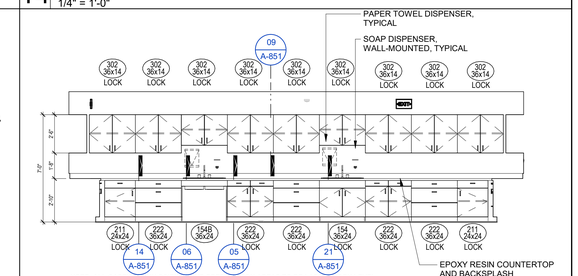
10 TYP. SCIENCE B - SOUTH
1/4" = 1'-0"



NOTE: ALL CASEWORK IN SCIENCE AND PREPARATION AREAS TO BE LABORATORY LEVEL. REFER TO SPECIFICATION 12 35 53.19 WOOD LABORATORY CASEWORK

ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

09 D508 PREP SCIENCE ROOM - NORTH
1/4" = 1'-0"



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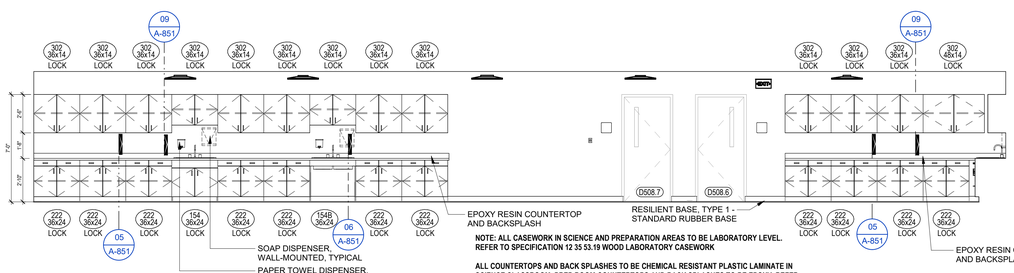
ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

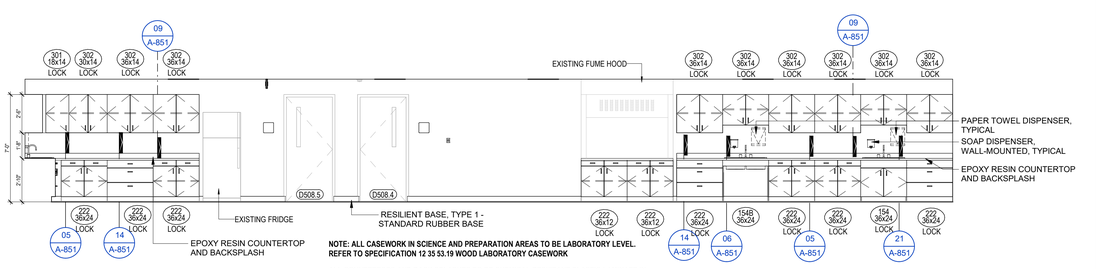
07 D508 PREP SCIENCE ROOM - SOUTH
1/4" = 1'-0"



NOTE: ALL CASEWORK IN SCIENCE AND PREPARATION AREAS TO BE LABORATORY LEVEL. REFER TO SPECIFICATION 12 35 53.19 WOOD LABORATORY CASEWORK

ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

06 D508 PREP SCIENCE ROOM - EAST
1/4" = 1'-0"



NOTE: ALL CASEWORK IN SCIENCE AND PREPARATION AREAS TO BE LABORATORY LEVEL. REFER TO SPECIFICATION 12 35 53.19 WOOD LABORATORY CASEWORK

ALL COUNTERTOPS AND BACK SPLASHES TO BE CHEMICAL RESISTANT PLASTIC LAMINATE IN SCIENCE CLASSROOM, PREP ROOM COUNTERTOPS AND BACK SPLASHES TO BE EPOXY. REFER TO SPECIFICATION.

03 D508 PREP SCIENCE ROOM - WEST
1/4" = 1'-0"

CHECKED BY:
Checker
DRAWN BY:
Author
Plot Stamp:
2/14/2025 10:53:43 AM
File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/AR23_220023_CFISD_Arnold MS.rvt

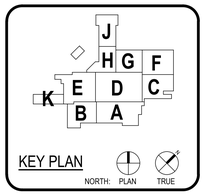
PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
BROOKS & SPARKS
T: 281-578-5998
LANDSCAPE
EDGELAND GROUP
T: 713-862-1000
STRUCTURAL
KUBENKA ENGINEERS
T: 713-840-7343
MEP/T
LEAP
T: 713-340-3300
ACOUSTIC
ARUP
T: 512-476-3664
FOOD SERVICE
SSC
T: 281-256-2221
POOL/AQUATICS
CONSULTANT NAME
T: 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

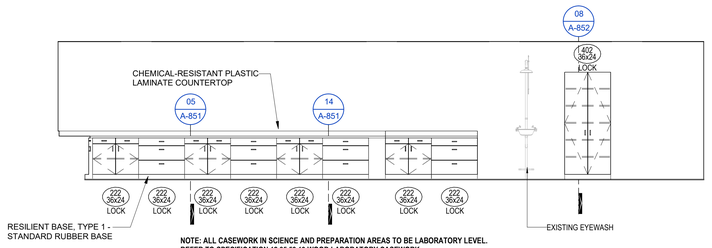
BUILDING NUMBER

CASEWORK ELEVATIONS

A-842

CASEWORK ELEVATIONS
A-843
FOR BLUEBEAM LABELING:OOR:

0"
1"



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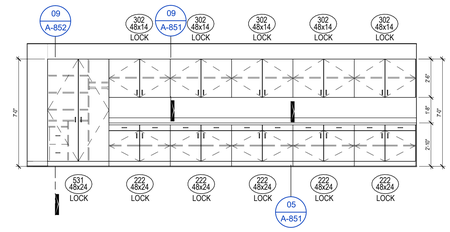
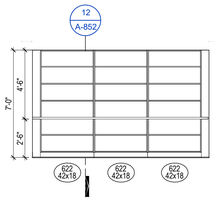
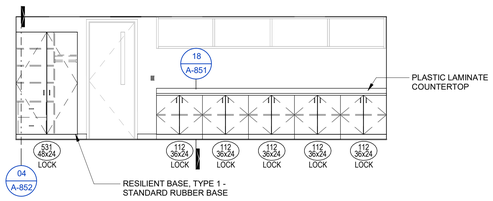
28 SCIENCE D509 - EAST
1/4" = 1'-0"



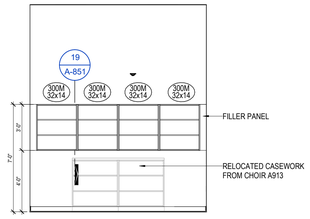
26 G225 DMC - EAST
1/4" = 1'-0"



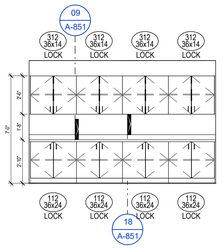
24 A916 STORAGE - EAST
1/4" = 1'-0"



23 AREA E TYP. CLASSROOM CASEWORK
1/4" = 1'-0"



21 A915 ENSEMBLE - WEST
1/4" = 1'-0"



20 E411 - WEST
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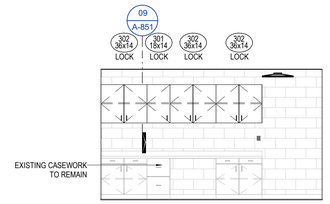
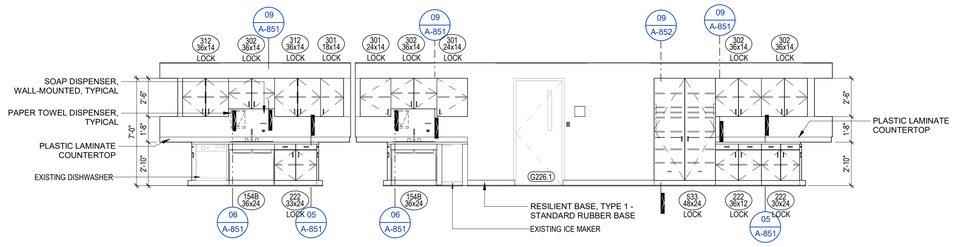
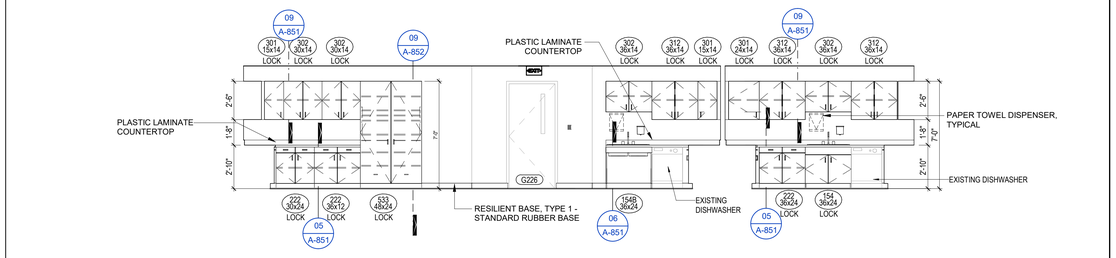


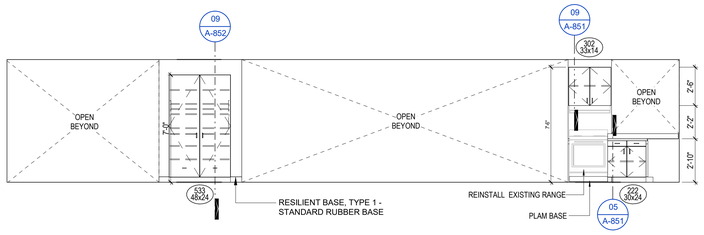
19 D609 COACHES OFFICE - SOUTH
1/4" = 1'-0"



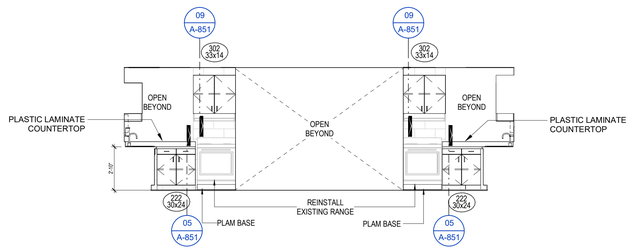
18 G226 FCS CASEWORK ELEV. - SOUTH
1/4" = 1'-0"



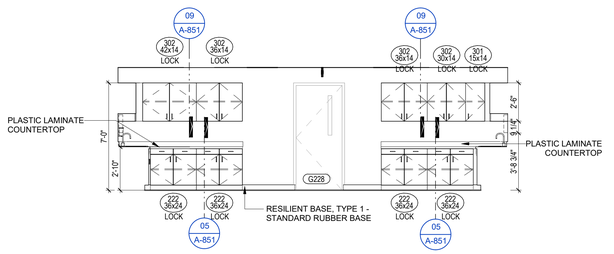
15 G226 FCS CASEWORK ELEV. - NORTH
1/4" = 1'-0"



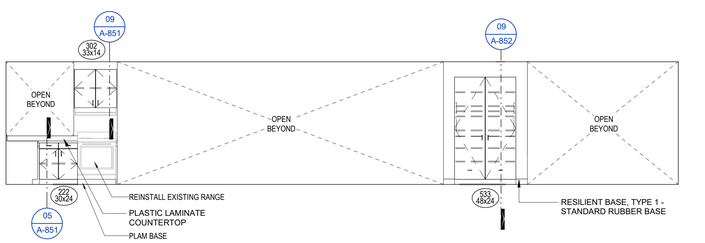
12 AREA G - G226 - NORTH
1/4" = 1'-0"



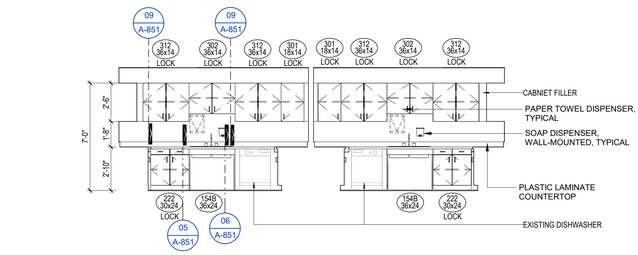
10 G226 FCS CASEWORK ELEV. - EAST A
1/4" = 1'-0"



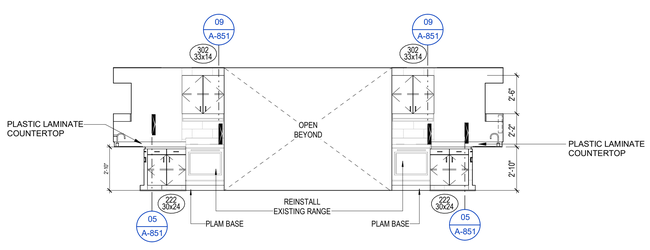
08 G226 FCS CASEWORK ELEV. - EAST B
1/4" = 1'-0"



06 AREA G - G226 - SOUTH
1/4" = 1'-0"



04 G226 FCS CASEWORK ELEV. - WEST A
1/4" = 1'-0"



02 G226 FCS CASEWORK ELEV. - WEST B
1/4" = 1'-0"

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CHECKED BY:
Checker
DRAWN BY:
Author
Plot Stamp:
2/14/2025 10:53:53 AM

ISSUE FOR PROPOSAL

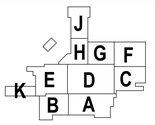
PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
BROOKS & SPARKS
T 281-478-5998
LANDSCAPE
EDDELAND GROUP
T 713-862-1666
STRUCTURAL
KUBENKA ENGINEERS
T 713-840-7343
MEP/T
LEAP
T 713-340-3320
ACOUSTIC
ACOUSTX
T 512-476-3464
FOOD SERVICE
RSE
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

CASEWORK ELEVATIONS

A-843

CASEWORK DETAILS

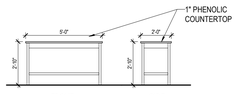
A-851

FOR BLUEBEAM LABELING/OCR:

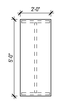
ISSUE FOR PROPOSAL

0"

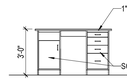
1"



29 ENLARGED SCIENCE TABLE - ELEVATION
1/4" = 1'-0"



28 ENLARGED SCIENCE TABLE - PLAN
1/4" = 1'-0"



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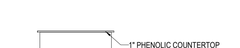
ALL COUNTERTOPS, BACK SPLASHES, AND INTEGRAL SINKS TO BE EPOXY RESIN. REFER TO SPECIFICATION 12 36 00 COUNTERTOPS

27 MOVABLE DEMO DESK - BACK
1/4" = 1'-0"



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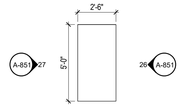
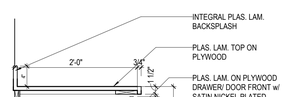
26 MOVABLE DEMO DESK - FRONT
1/4" = 1'-0"



25 ENLARGED MOVABLE DEMO DESK
1/4" = 1'-0"



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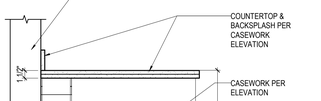
ALL COUNTERTOPS, BACK SPLASHES, AND INTEGRAL SINKS TO BE EPOXY RESIN. REFER TO SPECIFICATION 12 36 00 COUNTERTOPS

24 INSTRUCTOR DESK FIXED - BACK
1/4" = 1'-0"



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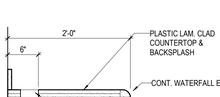
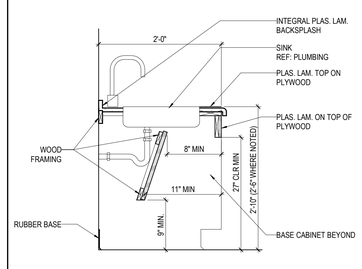
23 INSTRUCTOR DESK FIXED - FRONT
1/4" = 1'-0"

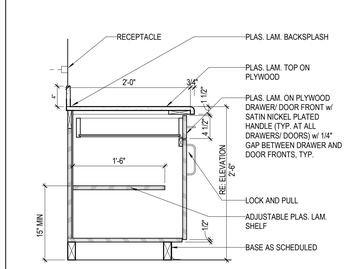


22 ENLARGED FIXED INSTRUCTOR DESK
1/4" = 1'-0"

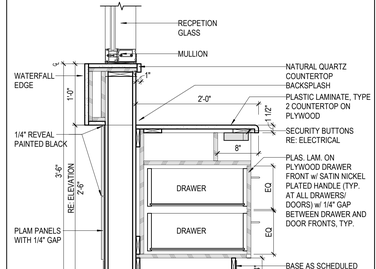
21 A-DTCS-BASE WITH SINK
1" = 1'-0"



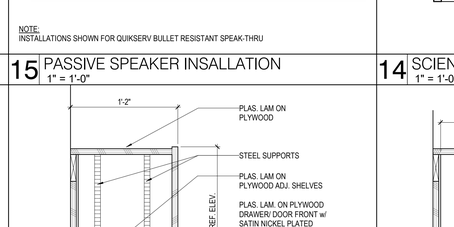
18 A-DTCS-BASE w/ ADJ SHELF
1" = 1'-0"



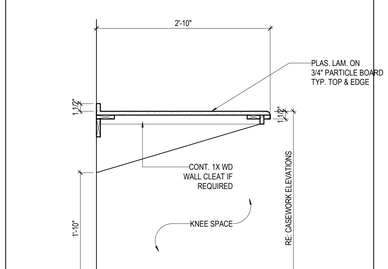
17 RECEPTION TRANSACTION DETAIL - ADA
1" = 1'-0"



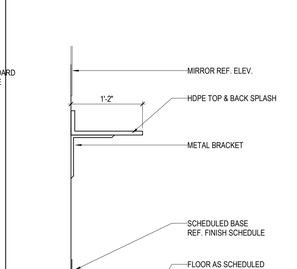
16 RECEPTION TRANSACTION DETAIL
1" = 1'-0"



15 PASSIVE SPEAKER INSALLATION
1" = 1'-0"



14 SCIENCE 3 DRAWER
1" = 1'-0"



13 CLASSROOM OPEN SHEVING
1" = 1'-0"

12 RECEPTION FILING CABNIETS
1" = 1'-0"

11 CABINET WITH PLUMBING CHASE
1" = 1'-0"

10 COMPUTER WORKSTATION
1" = 1'-0"

09 A-DTCS-UPPER CABINET-14460
1 1/2" = 1'-0"

08 A-DTCS-UPPER CABINET OPEN SHELVING
1 1/2" = 1'-0"

07 CASHIER SECTION
1" = 1'-0"

06 A-DTCS-BASE WITH SINK 14231
1" = 1'-0"

05 A-DTCS-BASE w/ ADJ SHELF-14231
1" = 1'-0"

04 RECEPTION DESK SECURITY BUTTONS
1" = 1'-0"

03 TROPHY SHELF DETAIL
1 1/2" = 1'-0"

02 TYP COUNTER TOP
1" = 1'-0"

01 TYP COUNTERTOP PE/ATHLETICS
1" = 1'-0"

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ACOUSTIC
SPECTRUM
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FOOD SERVICE
RDH
T 281-356-2221
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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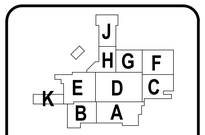

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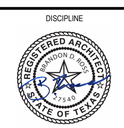


CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

CASEWORK DETAILS

A-851

PROPOSAL

ISSUE FOR P

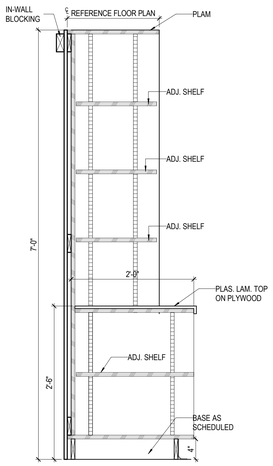
CASEWORK DETAILS

A-852

FOR BLUEBEAM LABELING/OCR:

0"

1"



12 STORAGE A916
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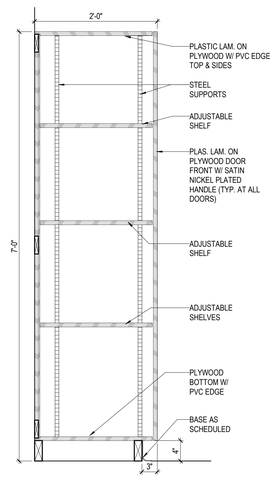

11 SEWING STORAGE CABINET
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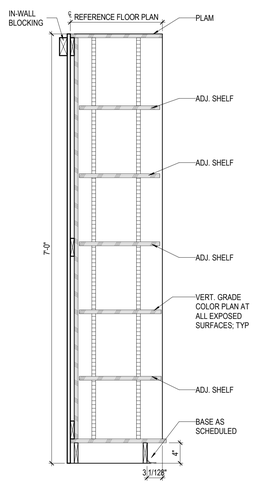

10 OPEN BOOKSHELF
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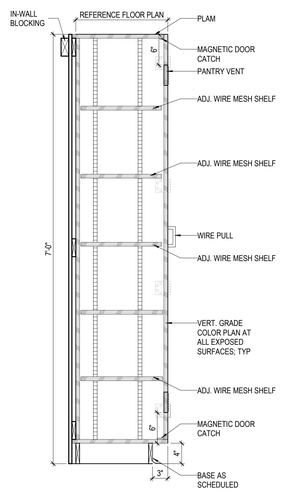

09 PANTRY WITH VENTS
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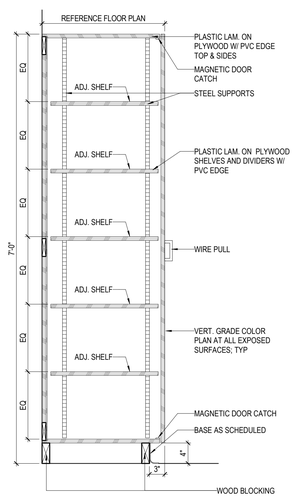
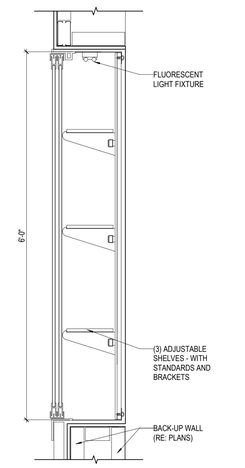
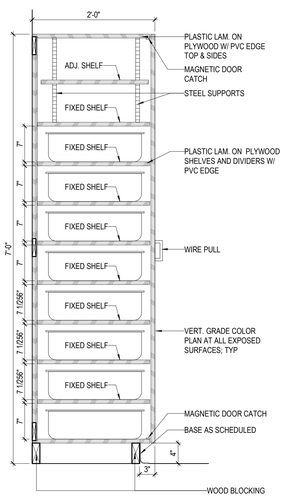


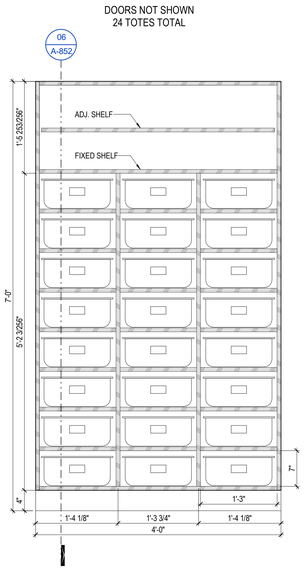
08 STORAGE CABNIET ADJ. SHELVES
1" = 1'-0"



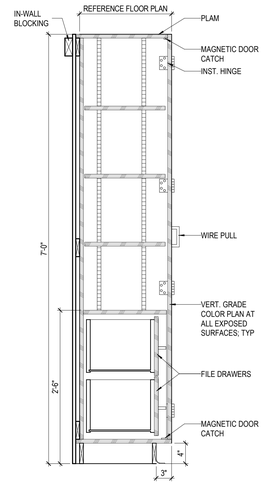
07 DISPLAY CASE
1" = 1'-0"



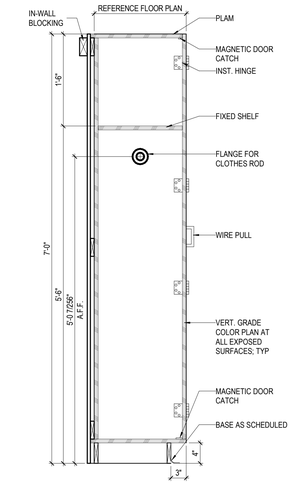
06 SEWING CABNIET WITH CUBBIES
1" = 1'-0"



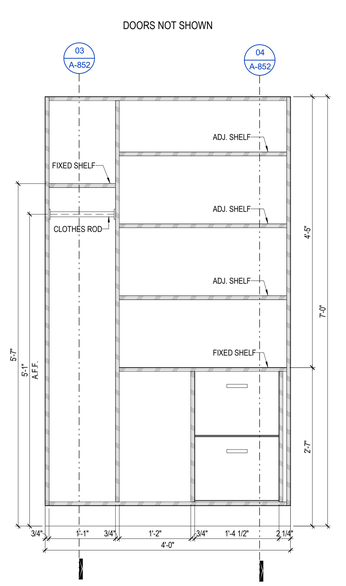
05 SEWING CABNIET SECTION
1" = 1'-0"



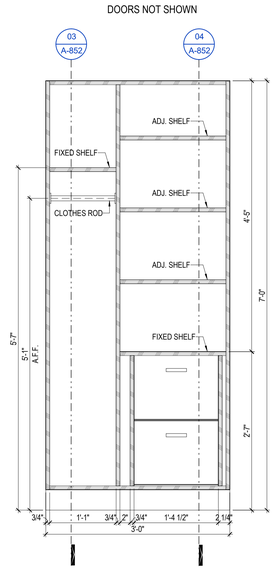
04 TEACHER CABNIET SECTION 3
1" = 1'-0"



03 TEACHER CABNIET SECTION 1
1" = 1'-0"



02 TEACHING CABINET 4'
1" = 1'-0"



01 TEACHING CABINET 3'
1" = 1'-0"

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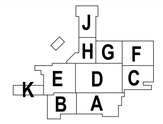

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

CASEWORK DETAILS

A-852

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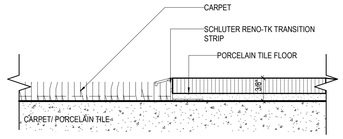
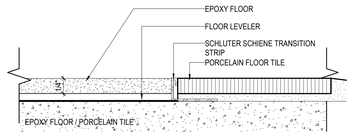
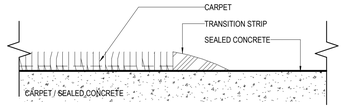
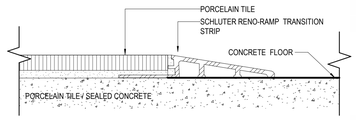
ISSUE FOR PROPOSAL

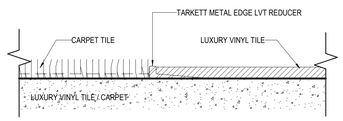
0"
1"

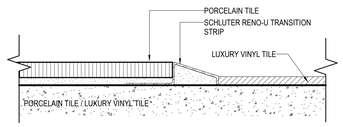








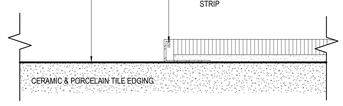


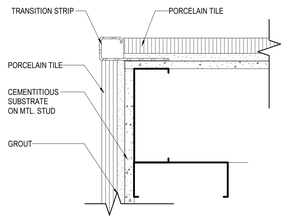


06 INT. FLOOR TRANSITIONS
12" = 1'-0"

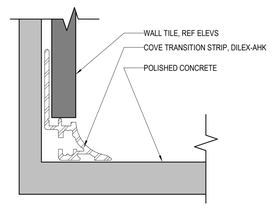
220023 ARNOLD MIDDLE SCHOOL - SCHEDULE OF FINISHES

ITEM	MANUFACTURER	DESCRIPTION	COLOR	SIZE	LOCATION	NOTES
			CARPET			
09 68 00.CP1	TARKETT	AFTERMATH 2	FLEECE 23508	POWERBOUND	REF. TO DRAWINGS	
09 68 00.CP2	TARKETT	ASSERTIVE ACTION	26217 FUSION	POWERBOUND	REF. TO DRAWINGS	WALK-OFF
			PORCELAIN WALL/FLOOR TILE			
09 30 00.T1	DALTILE	SYNCHRONIC	WHITE TEXTURED	12X24	CORRIDOR	WALL TILE
09 30 00.T2	DALTILE	SYNCHRONIC	BEIGE TEXTURED	12X24	CORRIDOR	WALL TILE
09 30 00.T3	DALTILE	SYNCHRONIC	BEIGE	12X24	CAFETERIA/ CORRIDOR	AL
09 30 00.T4	DALTILE	SYNCHRONIC	BEIGE	24X24	CAFETERIA/CORRIDOR	FLOOR TILE
09 30 00.T5	DALTILE	SYNCHRONIC	TAUPE	12X24	CAFETERIA/RESTROOM/CORRIDOR	FLOOR TILE
09 30 00.T6	DALTILE	SYNCHRONIC	TAUPE	24X24	CAFETERIA/CORRIDOR	FLOOR TILE
09 30 00.T7	DALTILE	COLOR MATCH	BURGUNDY (MATTE)	8X24	CORRIDOR/WATER FOUNTAIN/SHOWER/RESTROOM	WALL TILE
09 30 00.T8	DALTILE	COLOR MATCH	LUMANRY GOLD (MATTE)	8X24	CORRIDOR/SHOWER/RESTROOM	WALL TILE
09 30 00.T9	DALTILE	COLOR WHEEL LINEAR	ARTIC WHITE (MATTE)	8X24	SHOWER/RESTROOM	WALL TILE
09 30 00.T10	DALTILE	KEYSTONE	ARCHITECTURE GRAY	2X2	SHOWER	FLOOR TILE
09 30 00.T11	DALTILE	SYNCHRONIC	BEIGE TEXTURED	4X24 (FACTORY CUT)	CORRIDOR	WALL TILE BASE
09 30 00.T12	DALTILE	SYNCHRONIC	TAUPE	4X24 (FACTORY CUT)	RESTROOM	WALL TILE BASE
					RUBBER BASE	
09 65 13.RB1	ROPPE	700 SERIES	193 BLACK BROWN	4"	TYP	
					LUXURY VINYL TILE	
09 65 00.RFT1	TARKETT	PALLADIAN	TERRACE	12 X 36	FIELD	
09 65 00.RFT2	TARKETT	MINERAL BASALT	MOONSTONE	12 X 36	ACCENT	
09 65 00.RFT3	TARKETT	MINERAL BASALT	SCULPTES GRAY	12 X 36	ACCENT	
					PAINT	
09 90 00.P1	SHERWIN WILLIAMS	SW 7634	PEDIMENT		FIELD	
09 90 00.P2	SHERWIN WILLIAMS	SW 0072	DEEP MAROON		ACCENT (MAROON)	
09 90 00.P3	SHERWIN WILLIAMS	SW 6381	ANJOU PEAR		ACCENT (GOLD)	
09 90 00.P4	SHERWIN WILLIAMS	SW 7048	URBANE BRONZE		DOOR FRAMES AND HM WINDOW FRAMES	
09 90 00.P5	SHERWIN WILLIAMS	SW 7028	INCREDIBLE WHITE		GYM AND CEILINGS	
09 90 00.P6	SHERWIN WILLIAMS	SW 6258	TRICORN BLACK		STAGE FLOOR /STAGE WALLS AND CEILINGS	
09 90 00.P7	SHERWIN WILLIAMS	SW 7044	AMAZING GRAY		ACCENT TEACHING WALL	
					PLASTIC LAMINATE	
10 14 00.RID1	WILSONART		SILICON EV 4811-60		SIGNAGE	ROOM NUMBER AND ROUTED BAND- DEEP MAROON SW 0072
10 14 00.RID2	WILSONART		TITANIUM ALLOY 5058K-18		SIGNAGE	ROOM NUMBER AND ROUTED BAND- DEEP MAROON SW 0072
06 20 00.PL1	WILSONART		HUNTINGTON MAPLE 7929-60		CASEWORK/DOORS	
12 36 00.PLC1	WILSONART		SILICON EV 4811-60		COUNTERTOP	
12 36 00.CRP1	WILSONART	CHEMSURF	BLACK 1595-60		COUNTERTOP SCIENCE CLASSROOM ONLY	
					ACOUSTICAL WALL SURFACE	
09 84 00.ARC1	GULFORD OF MAINE	ANCHORAGE	STRAW 2034 (GOLD)		CAFETERIA AND FINE ARTS	REF TO DRAWINGS FOR PATTERN
09 84 00.ARC2	GULFORD OF MAINE	ANCHORAGE	ANGORA 2035 (BEIGE)		CAFETERIA AND FINE ARTS	REF TO DRAWINGS FOR PATTERN
09 84 00.ARC3	GULFORD OF MAINE	ANCHORAGE	MULBERRY 2044 (MAROON)		CAFETERIA AND FINE ARTS	REF TO DRAWINGS FOR PATTERN
					ACOUSTICAL CEILING TILES	
09 51 00.ACP1	ARMSTRONG	FINE FISSURED		24X24	FIELD	REF TO DRAWINGS
09 51 00.ACP2	ARMSTRONG	ULTIMA		TBD	CLASSROOMS	
09 51 00.ACP3	ARMSTRONG	KITCHEN LAY IN		24X24	KITCHEN	
09 51 00.ACP4	ARMSTRONG	ULTIMA		TBD	LIBRARY	
					QUARTZ	
12 36 00.QRC1	CAMBRIA	QUARTZ	ELLA		RECEPTION DESK	
12 36 00.QRC2	CAMBRIA	QUARTZ	TEMPLETON		WINDOW SEAL	
					MISC.	
09 65 13.TR1	TARKETT	METALEDGE TRANSITION	IRON STONE		TRANSITION	
10 51 13.AL	AMP		727 MAROON			METAL LOCKERS
10 21 13.19.PTC	SCRATON	HINDY HIDERS	PAISLEY ORANGE PEEL			TOILET PARTITIONS
12 66 13.TSM		HUSSEY SEATING	504 BURGUNDY		COMP. AND AUX GYM	BLEACHERS
09 67 00.FF1	DEX-O-TEX	DECOR-FLOR BROADCAST	DEF-B-07 DOUBLE BROADCAST QUIK-GLAZE CLEAR FINISH		LOCKER ROOM	EPOXY FLOORING
10 21 13.19.CT	SCRATON		PAISLEY ORANGE PEEL			LOCKER TOPS
10 21 13.19.BT	SCRATON		PAISLEY ORANGE PEEL			BENCHES
11 61 43.STG	K&M FABRICS		BLACK		STAGE CURTAIN	





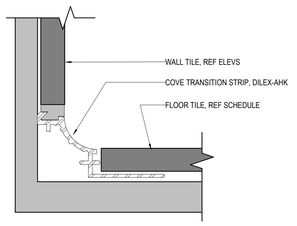
PORCELAIN WALL TILE AT CORNER

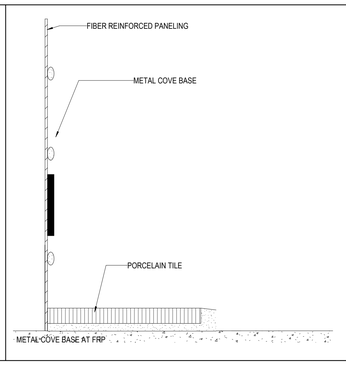


TILE PATTERN

24" X 24" ALONG SIDE
ONE ROW OF 12" X 24"

1 TYPICAL FLOOR TILE PATTERN
1" = 1'-0"





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T 000-000-0000

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INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT
BRANDON D. WISE
STATE OF TEXAS
27140

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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FINISH SCHEDULES

AF100

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Plot Stamp:
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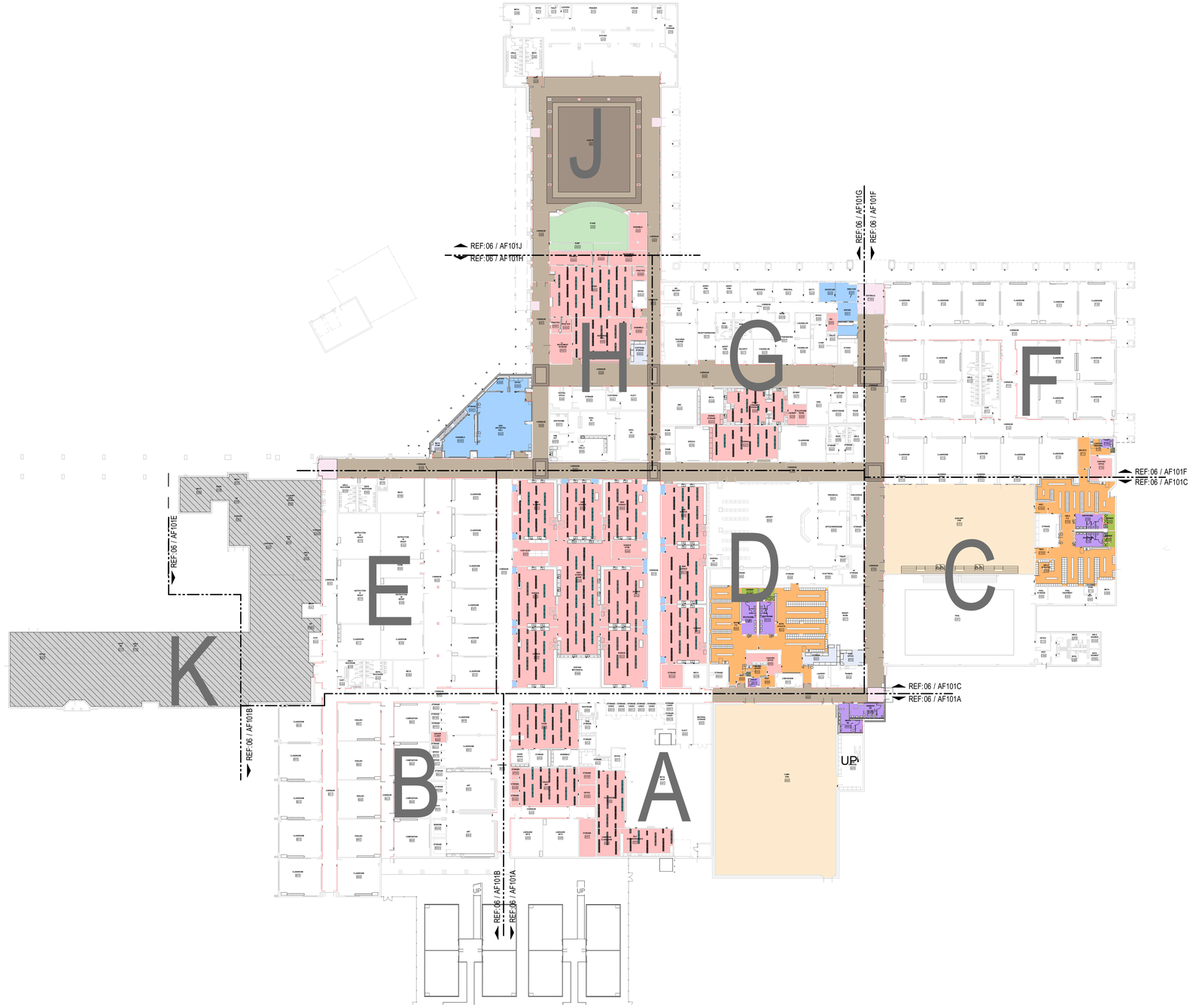
0"
1"

1ST FLOOR FINISH PLAN - COMPOSITE
AF101
FOR BLUEBEAM LABELING.OCR:

ISSUE FOR PROPOSAL



06 1ST LEVEL - FLOOR FINISH PLAN
1/32" = 1'-0"

FINISH FLOOR LEGEND
1/8" = 1'-0"

- **CP1, CARPET TYPE 1** *RE: FINISH SCHEDULE*
- **CP2, CARPET TYPE 2** *RE: FINISH SCHEDULE*
- **FF1, FLUID-APPLIED, EPOXY** *RE: FINISH SCHEDULE*
- **T3 & T4, TILE** *RE: FINISH SCHEDULE*
- **T5 & T6, TILE** *RE: FINISH SCHEDULE*
- **T5, TILE** *RE: FINISH SCHEDULE*
- **T10, TILE** *RE: FINISH SCHEDULE*
- **RFT1, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **RFT2, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **RFT3, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **REPAINTING OF EXISTING STAGE FLOORING (BLACK)**
- **WD, REFINSIHING OF WOOD FLOORING** *RE: SPECS*
- **SC1 - SEALED CONCRETE**
- **NOT IN SCOPE**
- **INDICATES WALL TILE LOCATIONS. REFER TO INTERIOR ELEVATIONS FOR MATERIAL AND PATTERN.**

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CONSULTANT NAME
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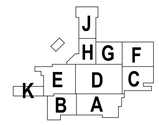

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT
RAYMOND J. KUBENKA III
STATE OF TEXAS
27145

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DATE	PROJECT NUMBER
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No.	Description	Date

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1ST FLOOR FINISH PLAN - COMPOSITE

AF101

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0"
1"

1ST FLOOR FINISH PLAN - AREA A
AF101A
FOR BLUEBEAM LABELING/OCR:

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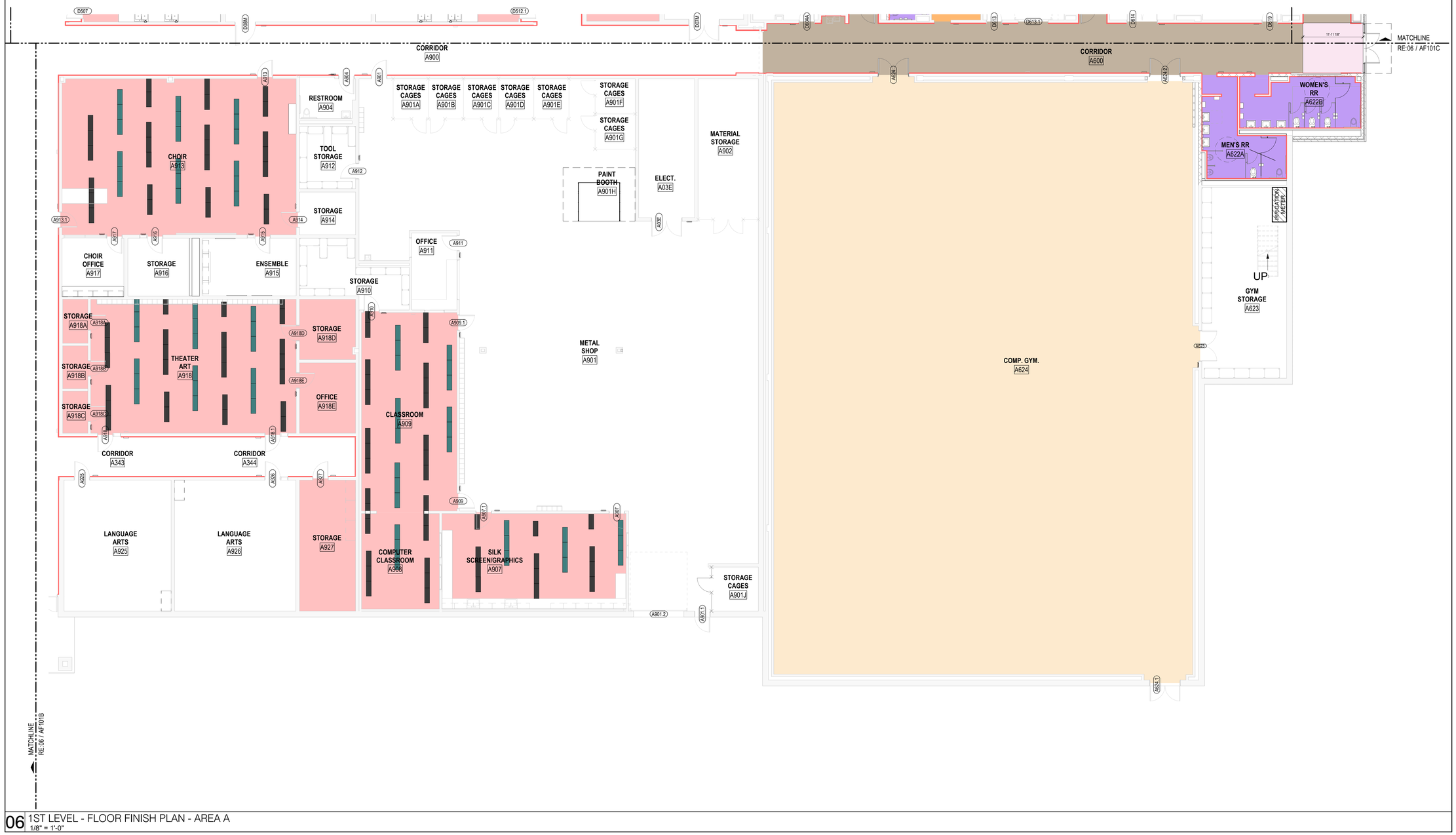
FINISH FLOOR LEGEND
1/8" = 1'-0"

- **CP1, CARPET TYPE 1** — *RE: FINISH SCHEDULE*
- **CP2, CARPET TYPE 2** — *RE: FINISH SCHEDULE*
- **FF1, FLUID-APPLIED, EPOXY** — *RE: FINISH SCHEDULE*
- **T3 & T4, TILE** — *RE: FINISH SCHEDULE*
- **T5 & T6, TILE** — *RE: FINISH SCHEDULE*
- **T5, TILE** — *RE: FINISH SCHEDULE*
- **T10, TILE** — *RE: FINISH SCHEDULE*
- **RFT1, LUXURY VINYL TILE** — *RE: FINISH SCHEDULE*
- **RFT2, LUXURY VINYL TILE** — *RE: FINISH SCHEDULE*
- **RFT3, LUXURY VINYL TILE** — *RE: FINISH SCHEDULE*
- **REPAINTING OF EXISTING STAGE FLOORING (BLACK)**
- **WD, REFINSIHING OF WOOD FLOORING** — *RE: SPECS*
- **SC1 - SEALED CONCRETE**
- **NOT IN SCOPE**
- **INDICATES WALL TILE LOCATIONS. REFER TO INTERIOR ELEVATIONS FOR MATERIAL AND PATTERN.**



06 1ST LEVEL - FLOOR FINISH PLAN - AREA A
1/8" = 1'-0"

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KEY PLAN
J H G F
K E D C
B A
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT — BRANDON D. WINN — 27148 — STATE OF TEXAS

01.20.2025

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BUILDING NUMBER

1ST FLOOR FINISH PLAN - AREA A

AF101A

ISSUE FOR PROPOSAL

1ST FLOOR FINISH PLAN - AREA B

AF101B

FOR BLUEBEAM LABELING/OCR:

0"
1"

06 1ST LEVEL - FLOOR FINISH PLAN - AREA B
1/8" = 1'-0"

FINISH FLOOR LEGEND
1/8" = 1'-0"

- **CP1, CARPET TYPE 1** *RE: FINISH SCHEDULE*
- **CP2, CARPET TYPE 2** *RE: FINISH SCHEDULE*
- **FF1, FLUID-APPLIED, EPOXY** *RE: FINISH SCHEDULE*
- **T3 & T4, TILE** *RE: FINISH SCHEDULE*
- **T5 & T6, TILE** *RE: FINISH SCHEDULE*
- **T5, TILE** *RE: FINISH SCHEDULE*
- **T10, TILE** *RE: FINISH SCHEDULE*
- **RFT1, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **RFT2, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **RFT3, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **REPAINTING OF EXISTING STAGE FLOORING (BLACK)**
- **WD, REFINSIHING OF WOOD FLOORING** *RE: SPECS*
- **SC1 - SEALED CONCRETE**
- **NOT IN SCOPE**
- **INDICATES WALL TILE LOCATIONS. REFER TO INTERIOR ELEVATIONS FOR MATERIAL AND PATTERN.**

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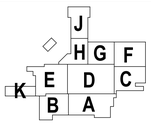

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

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BUILDING NUMBER

1ST FLOOR FINISH PLAN - AREA B

AF101B

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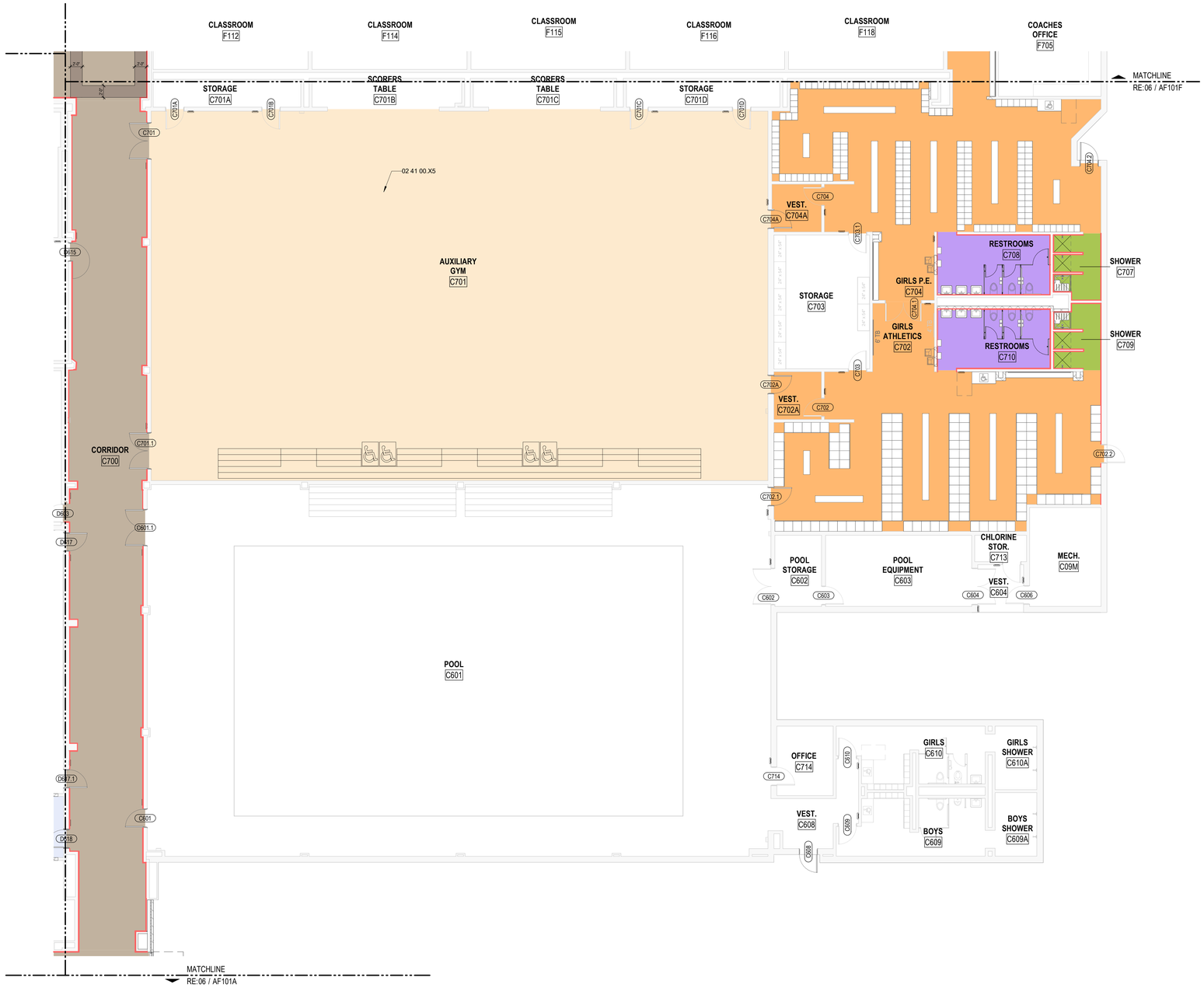
1ST FLOOR FINISH PLAN - AREA C
AF101C
FOR BLUEBEAM LABELING/OCR:



06 1ST LEVEL - FLOOR FINISH PLAN - AREA C
1/8" = 1'-0"

FINISH FLOOR LEGEND
1/8" = 1'-0"

- **CP1, CARPET TYPE 1** *RE: FINISH SCHEDULE*
- **CP2, CARPET TYPE 2** *RE: FINISH SCHEDULE*
- **FF1, FLUID-APPLIED, EPOXY** *RE: FINISH SCHEDULE*
- **T3 & T4, TILE** *RE: FINISH SCHEDULE*
- **T5 & T6, TILE** *RE: FINISH SCHEDULE*
- **T5, TILE** *RE: FINISH SCHEDULE*
- **T10, TILE** *RE: FINISH SCHEDULE*
- **RFT1, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **RFT2, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **RFT3, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **REPAINTING OF EXISTING STAGE FLOORING (BLACK)**
- **WD, REFINSIHING OF WOOD FLOORING** *RE: SPECS*
- **SC1 - SEALED CONCRETE**
- **NOT IN SCOPE**
- **INDICATES WALL TILE LOCATIONS. REFER TO INTERIOR ELEVATIONS FOR MATERIAL AND PATTERN.**

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LEAP
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CONSULTANT NAME
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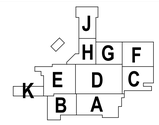

KEY PLAN NORTH: PLAN TRUE

DISCIPLINE

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CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
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DRAWING HISTORY

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BUILDING NUMBER

1ST FLOOR FINISH PLAN - AREA C

AF101C

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1ST FLOOR FINISH PLAN - AREA D

AF101D

FOR BLUEBEAM LABELING:OOR:

0"

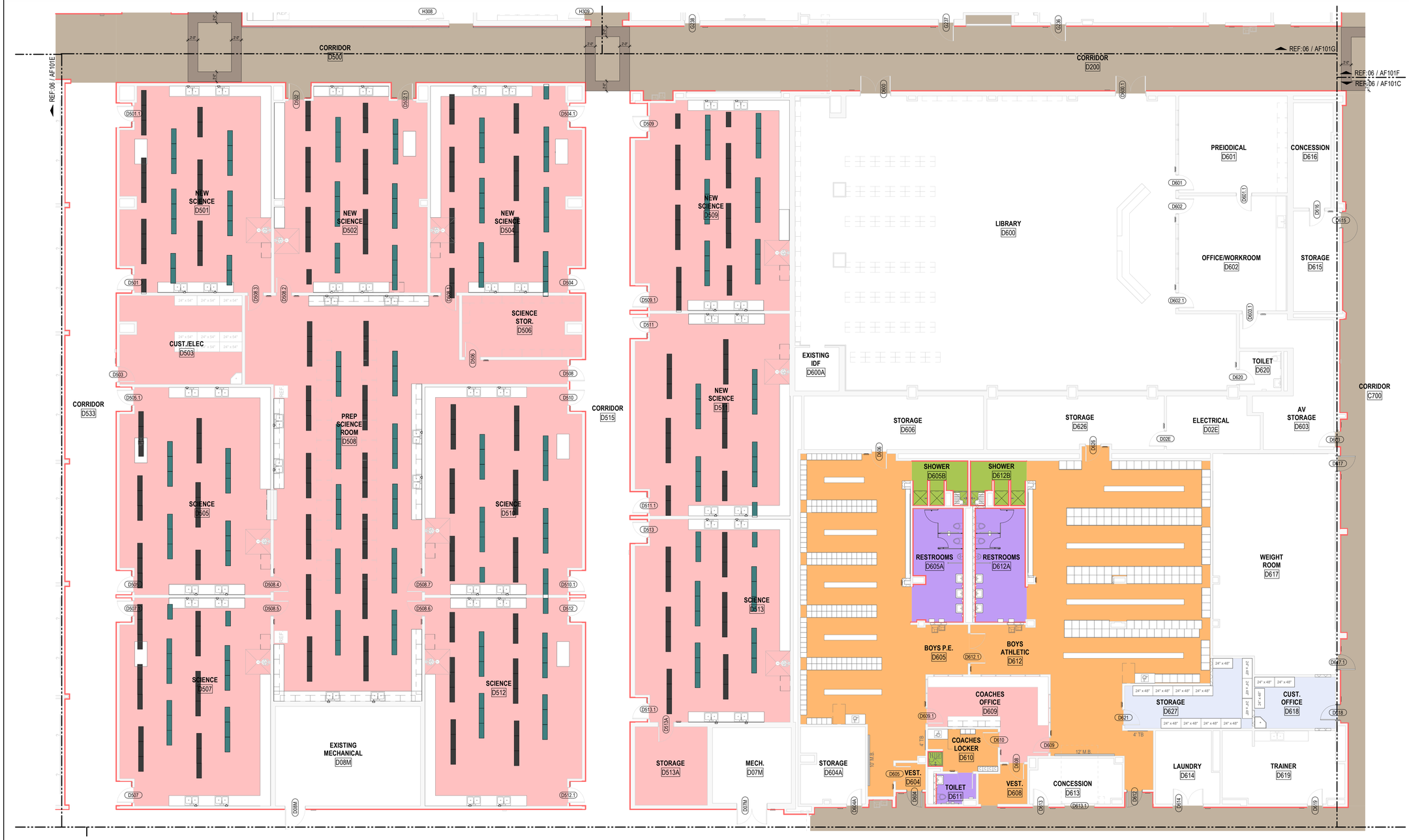
1"

ISSUE FOR PROPOSAL

FINISH FLOOR LEGEND

1/8" = 1'-0"

- **CP1, CARPET TYPE 1** — *RE: FINISH SCHEDULE*
- **CP2, CARPET TYPE 2** — *RE: FINISH SCHEDULE*
- **FF1, FLUID-APPLIED, EPOXY** — *RE: FINISH SCHEDULE*
- **T3 & T4, TILE** — *RE: FINISH SCHEDULE*
- **T5 & T6, TILE** — *RE: FINISH SCHEDULE*
- **T5, TILE** — *RE: FINISH SCHEDULE*
- **T10, TILE** — *RE: FINISH SCHEDULE*
- **RFT1, LUXURY VINYL TILE** — *RE: FINISH SCHEDULE*
- **RFT2, LUXURY VINYL TILE** — *RE: FINISH SCHEDULE*
- **RFT3, LUXURY VINYL TILE** — *RE: FINISH SCHEDULE*
- **REPAINTING OF EXISTING STAGE FLOORING (BLACK)**
- **WD, REFINSIHING OF WOOD FLOORING** — *RE: SPECS*
- **SC1 - SEALED CONCRETE**
- **NOT IN SCOPE**
- **INDICATES WALL TILE LOCATIONS. REFER TO INTERIOR ELEVATIONS FOR MATERIAL AND PATTERN.**



06 1ST LEVEL - FLOOR FINISH PLAN - AREA D

1/8" = 1'-0"

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CSD
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POOL/AQUATICS CONSULTANT NAME
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J H G F K E D C B A

KEY PLAN

NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT BRANDON D. DOSS 27549 STATE OF TEXAS

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BUILDING NUMBER

1ST FLOOR FINISH PLAN - AREA D

AF101D

ISSUE FOR PROPOSAL

FINISH FLOOR LEGEND

1/8" = 1'-0"

- **CP1, CARPET TYPE 1** *RE: FINISH SCHEDULE*
- **CP2, CARPET TYPE 2** *RE: FINISH SCHEDULE*
- **FF1, FLUID-APPLIED, EPOXY** *RE: FINISH SCHEDULE*
- **T3 & T4, TILE** *RE: FINISH SCHEDULE*
- **T5 & T6, TILE** *RE: FINISH SCHEDULE*
- **T5, TILE** *RE: FINISH SCHEDULE*
- **T10, TILE** *RE: FINISH SCHEDULE*
- **RFT1, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **RFT2, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **RFT3, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **REPAINTING OF EXISTING STAGE FLOORING (BLACK)**
- **WD, REFINSIHING OF WOOD FLOORING** *RE: SPECS*
- **SC1 - SEALED CONCRETE**
- **NOT IN SCOPE**
- **INDICATES WALL TILE LOCATIONS. REFER TO INTERIOR ELEVATIONS FOR MATERIAL AND PATTERN.**

06 1ST LEVEL - FLOOR FINISH PLAN - AREA E
1/8" = 1'-0"

0" 1"

1ST FLOOR FINISH PLAN - AREA E
AF101E
FOR BLUEBEAM LABELING:OOR:

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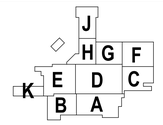

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

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02/17/2025	220023

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BUILDING NUMBER

1ST FLOOR FINISH PLAN - AREA E

AF101E

0"
1"

1ST FLOOR FINISH PLAN - AREA F
AF101F
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

FINISH FLOOR LEGEND
1/8" = 1'-0"

- **CP1, CARPET TYPE 1** — *RE: FINISH SCHEDULE*
- **CP2, CARPET TYPE 2** — *RE: FINISH SCHEDULE*
- **FF1, FLUID-APPLIED, EPOXY** — *RE: FINISH SCHEDULE*
- **T3 & T4, TILE** — *RE: FINISH SCHEDULE*
- **T5 & T6, TILE** — *RE: FINISH SCHEDULE*
- **T5, TILE** — *RE: FINISH SCHEDULE*
- **T10, TILE** — *RE: FINISH SCHEDULE*
- **RFT1, LUXURY VINYL TILE** — *RE: FINISH SCHEDULE*
- **RFT2, LUXURY VINYL TILE** — *RE: FINISH SCHEDULE*
- **RFT3, LUXURY VINYL TILE** — *RE: FINISH SCHEDULE*
- **REPAINTING OF EXISTING STAGE FLOORING (BLACK)**
- **WD, REFINSIHING OF WOOD FLOORING** — *RE: SPECS*
- **SC1 - SEALED CONCRETE**
- **NOT IN SCOPE**
- **INDICATES WALL TILE LOCATIONS. REFER TO INTERIOR ELEVATIONS FOR MATERIAL AND PATTERN.**

06 1ST LEVEL - FLOOR FINISH PLAN - AREA F
1/8" = 1'-0"

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CONSULTANT NAME
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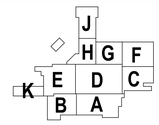

KEY PLAN
NORTH: PLAN TRUE

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1ST FLOOR FINISH PLAN - AREA F

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1ST FLOOR FINISH PLAN - AREA G

AF101G

FOR BLUEBEAM LABELING/OCR:

0"

1"

FINISH FLOOR LEGEND

1/8" = 1'-0"

- **CP1, CARPET TYPE 1** *RE: FINISH SCHEDULE*
- **CP2, CARPET TYPE 2** *RE: FINISH SCHEDULE*
- **FF1, FLUID-APPLIED, EPOXY** *RE: FINISH SCHEDULE*
- **T3 & T4, TILE** *RE: FINISH SCHEDULE*
- **T5 & T6, TILE** *RE: FINISH SCHEDULE*
- **T5, TILE** *RE: FINISH SCHEDULE*
- **T10, TILE** *RE: FINISH SCHEDULE*
- **RFT1, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
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- **RFT3, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
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- **WD, REFINSIHING OF WOOD FLOORING** *RE: SPECS*
- **SC1 - SEALED CONCRETE**
- **NOT IN SCOPE**
- **INDICATES WALL TILE LOCATIONS. REFER TO INTERIOR ELEVATIONS FOR MATERIAL AND PATTERN.**

06 1ST LEVEL - FLOOR FINISH PLAN - AREA G
1/8" = 1'-0"

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CONSULTANT NAME
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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
J H G F E D C K B A
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT — STATE OF TEXAS

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR FINISH PLAN - AREA G

AF101G

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PROPOSAL

ISSUE FOR P

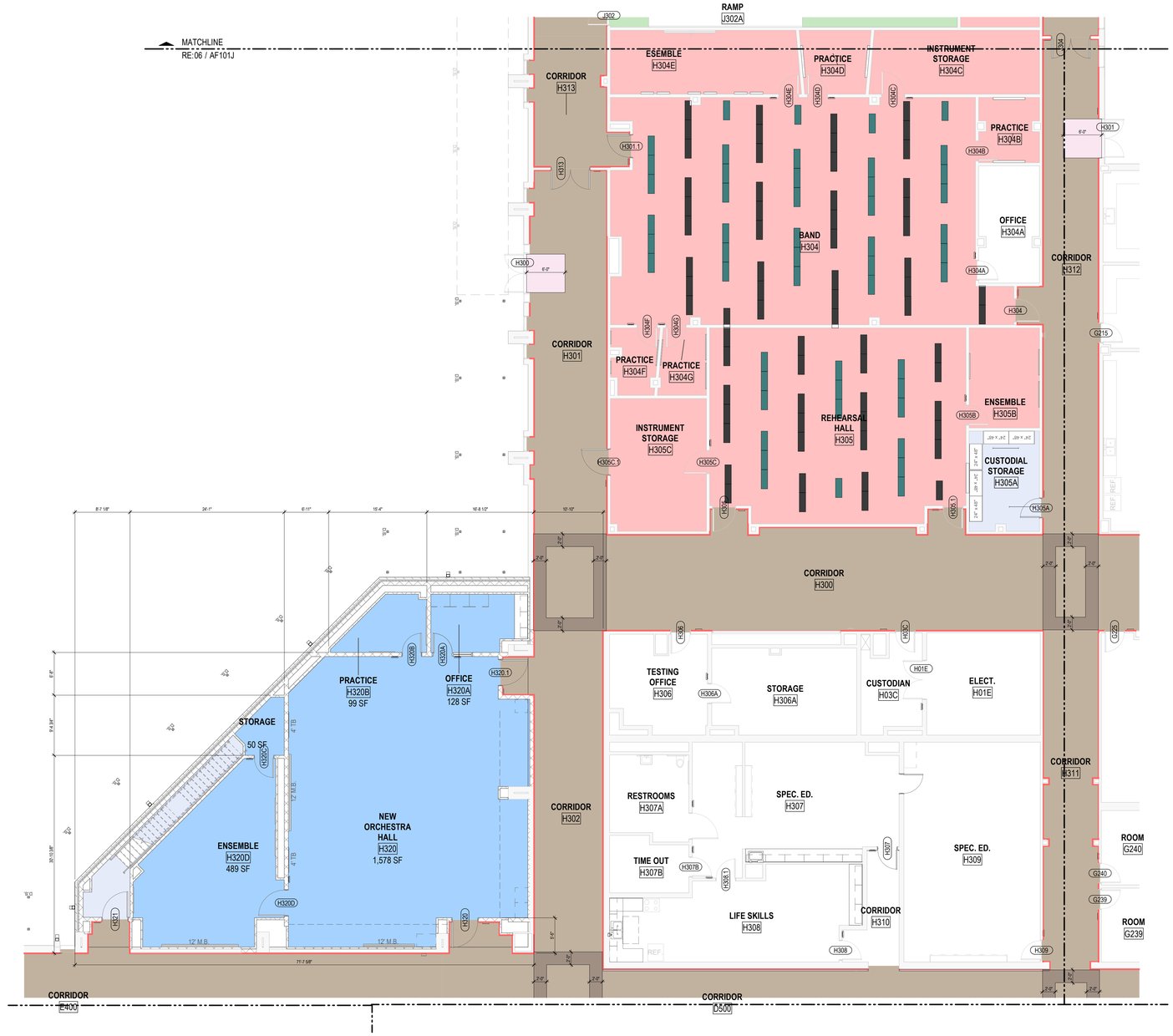
1ST FLOOR FINISH PLAN - AREA H

AF101H

FOR BLUEBEAM LABELING/OCR:

0"

1"



06 1ST LEVEL - FLOOR FINISH PLAN - AREA H
1/8" = 1'-0"

FINISH FLOOR LEGEND
1/8" = 1'-0"

- **CP1, CARPET TYPE 1** *RE: FINISH SCHEDULE*
- **CP2, CARPET TYPE 2** *RE: FINISH SCHEDULE*
- **FF1, FLUID-APPLIED, EPOXY** *RE: FINISH SCHEDULE*
- **T3 & T4, TILE** *RE: FINISH SCHEDULE*
- **T5 & T6, TILE** *RE: FINISH SCHEDULE*
- **T5, TILE** *RE: FINISH SCHEDULE*
- **T10, TILE** *RE: FINISH SCHEDULE*
- **RFT1, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **RFT2, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **RFT3, LUXURY VINYL TILE** *RE: FINISH SCHEDULE*
- **REPAINTING OF EXISTING STAGE FLOORING (BLACK)**
- **WD, REFINSIHING OF WOOD FLOORING** *RE: SPECS*
- **SC1 - SEALED CONCRETE**
- **NOT IN SCOPE**
- **INDICATES WALL TILE LOCATIONS. REFER TO INTERIOR ELEVATIONS FOR MATERIAL AND PATTERN.**

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KUBENA ENGINEERS
T 713-942-7343
MEP/T
LEAP
T 713-340-3300
ACOUSTIC
T 512-476-3654
FOOD SERVICE
T 281-356-2223
POOL/AQUATICS
CONSULTANT NAME
T 000-000-0000

Arnold Middle School

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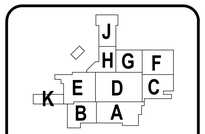

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1ST FLOOR FINISH PLAN - AREA H

AF101H

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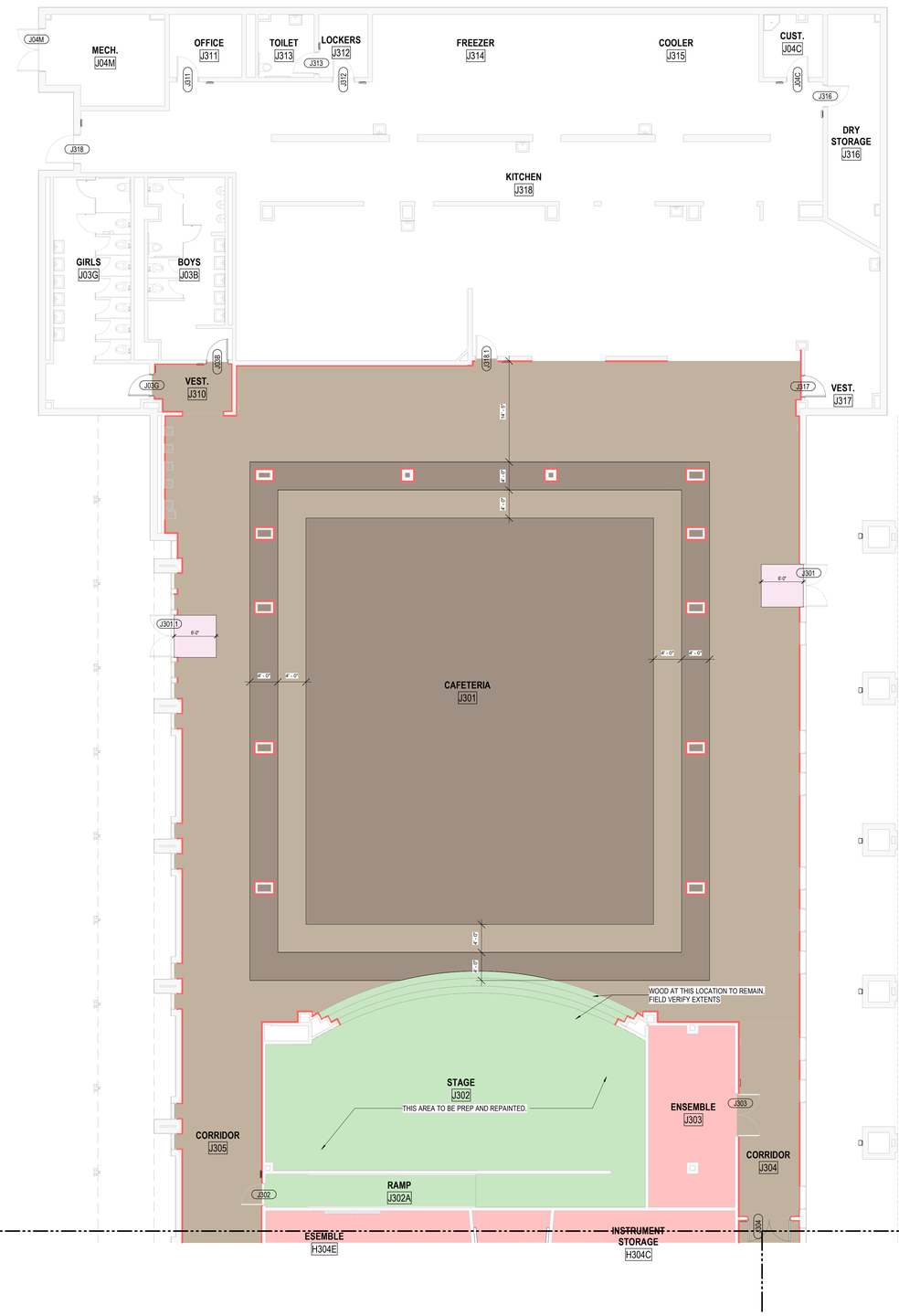

FINISH FLOOR LEGEND

1/8" = 1'-0"

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- **FF1, FLUID-APPLIED, EPOXY** *RE: FINISH SCHEDULE*
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INDICATES WALL TILE LOCATIONS. REFER TO INTERIOR ELEVATIONS FOR MATERIAL AND PATTERN.

06 1ST LEVEL - FLOOR FINISH PLAN - AREA J
1/8" = 1'-0"

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T 281-356-2223
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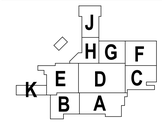

KEY PLAN NORTH: PLAN TRUE

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02/17/2025	220023

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BUILDING NUMBER

1ST FLOOR FINISH PLAN - AREA J

AF101J

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SIGNAGE GRAPHIC STANDARDS

AG051

FOR BLUEBEAM LABELING:

0"

1"

GENERAL GRAPHICS NOTES

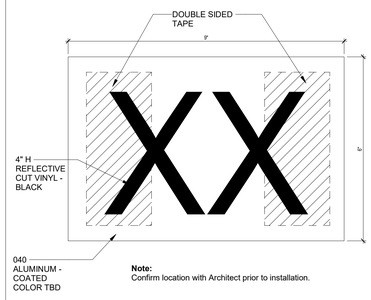
1. ALL GRAPHIC SIGNAGE SHALL BE COMPLIANT WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS. VERIFY REQUIREMENTS AND COMPLIANCE PRIOR TO FABRICATION.
2. PROVIDE AND INSTALL ONE SIGN FOR EVERY DOOR IN DOOR SCHEDULE, PLUS ONE SIGN FOR EVERY PERMANENT ROOM AND OR SPACE WITHOUT A DOOR.
3. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO DOOR OR AT DOUBLE LEAF DOOR LOCATIONS, INSTALL SIGN ON THE NEAREST ADJACENT WALL.
4. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE.
5. CHARACTER FONTS SHALL BE UPPERCASE, SANS SERIF, HELVITICA MEDIUM, NON-ITALIC, NON-OBLIQUE, NON-SCRIPT, NON-DECORATIVE, RAISED 1/32 INCH, PAINTED WHITE.
6. CHARACTER FONT PROPORTIONS SHALL BE HAVE A WIDTH OF THE UPPERCASE LETTER "O" 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
7. CHARACTER FONT HEIGHT SHALL BE 5/8 INCH HIGH MINIMUM AND 2 INCH HIGH MAXIMUM.
8. CHARACTER FONT STROKE THICKNESS OF THE UPPER CASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
9. CHARACTER FONT SPACING OF CHARACTERS WITH RECTANGULAR CROSS SECTIONS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.
10. CHARACTER FONT SPACING OF CHARACTERS WITH NON-RECTANGULAR CROSS SECTIONS SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SETCIONS.
11. CHACTER FONTS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM.
12. GRADE 2 BRAILLE SHALL ACCOMPANY ALL RAISED TEXT. BRAILLE DOTS SHALL HAVE DOMED OR ROUNDED SHAPE, AND BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT.
13. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
14. PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 INCHES MINIMUM IN HEIGHT.
15. SIGN MATERIAL SHALL BE 1/4 INCH THICK WITH MATTE. NON-GLARE PLASTIC LAMINATE FRONT FACE AND MATTE, NON-GLARE PLASTIC LAMINATE BACK FACE. CHARACTER AND SYMBOL COLOR SHALL CONTRAST WITH BACKGROUND COLOR. COLORS SHALL BE SELECTED BY ARCHITECT AND OR OWNER.
16. SIGN EDGE SHALL BE PAINTED ALL AROUND TO MATCH SIGN FACE.

EXTERIOR DOOR NUMBERING

DOOR MARK	EXTERIOR DOOR NUMBER	Sign Quantity	Exterior Door Remarks
F100.2	F100.2		

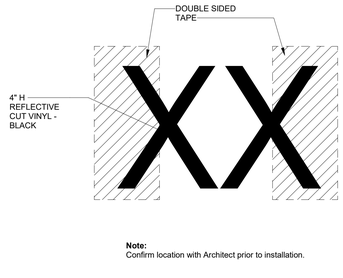
EXTERIOR DOOR NUMBERING

DOOR MARK	EXTERIOR DOOR NUMBER	Sign Quantity	Exterior Door Remarks



Note:
Confirm location with Architect prior to installation.

22 EXT. DOOR NUMBER SIGNAGE @ BRICK
6" = 1'-0"

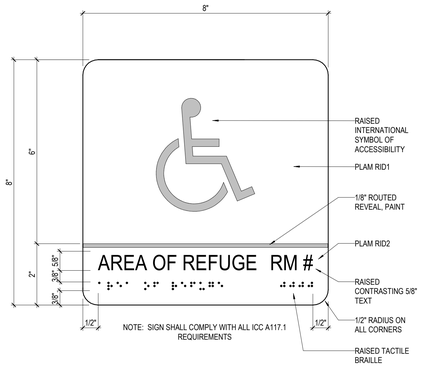


Note:
Confirm location with Architect prior to installation.

21 EXT. DOOR NUMBER SIGNAGE @ GLASS
6" = 1'-0"

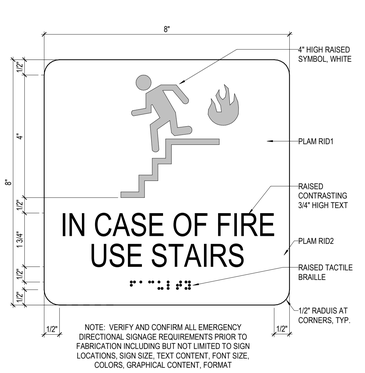
NOTE: SIGN SHALL COMPLY WITH ALL ICC A117.1 REQUIREMENTS

K EGRESS



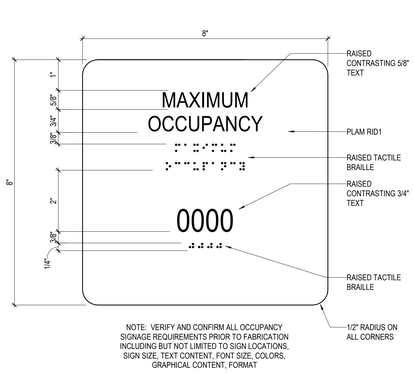
NOTE: SIGN SHALL COMPLY WITH ALL ICC A117.1 REQUIREMENTS

J EGRESS



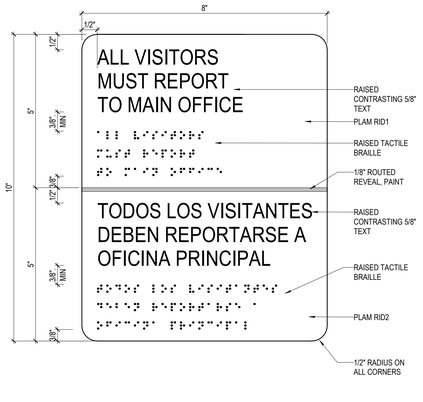
NOTE: VERIFY AND CONFIRM ALL EMERGENCY DIRECTIONAL SIGNAGE REQUIREMENTS PRIOR TO FABRICATION INCLUDING BUT NOT LIMITED TO SIGN LOCATIONS, SIGN SIZE, TEXT CONTENT, FONT SIZE, COLORS, GRAPHICAL CONTENT, FORMAT

H EGRESS

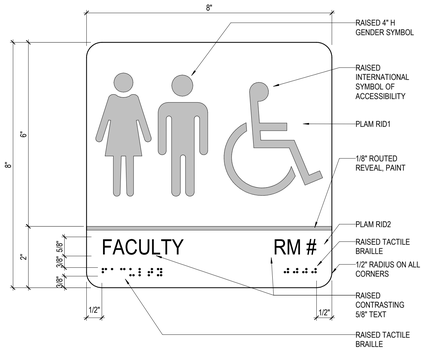


NOTE: VERIFY AND CONFIRM ALL OCCUPANCY SIGNAGE REQUIREMENTS PRIOR TO FABRICATION INCLUDING BUT NOT LIMITED TO SIGN LOCATIONS, SIGN SIZE, TEXT CONTENT, FONT SIZE, COLORS, GRAPHICAL CONTENT, FORMAT

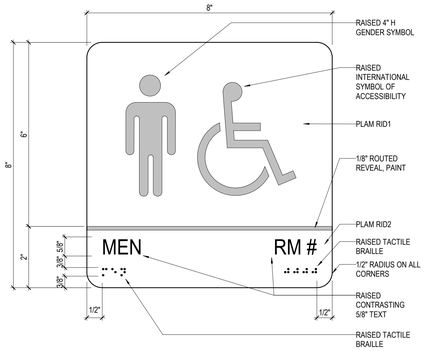
G ASSEMBLY



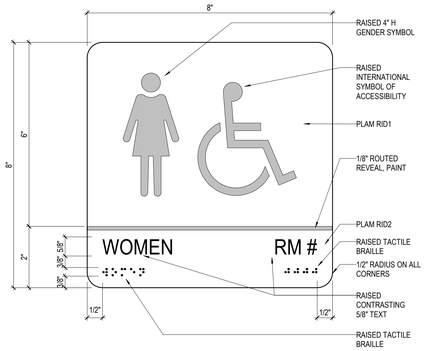
F ADMINISTRATIVE



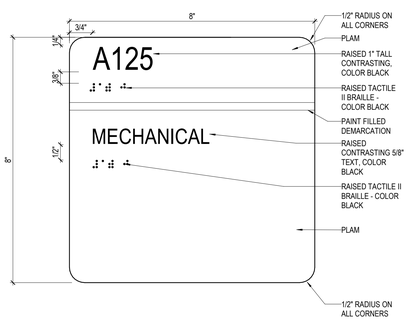
E FACULTY / ASSISTED USE / UNISEX



D MEN / BOYS



C WOMEN / GIRLS



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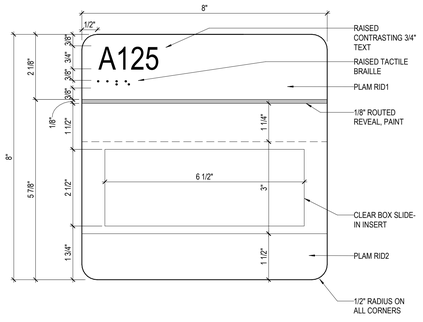

A ADMINISTRATIVE / CLASSROOMS

06 SIGNAGE - GRAPHICS
6" = 1'-0"

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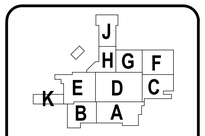
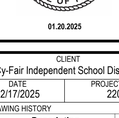


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE



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SIGNAGE GRAPHIC STANDARDS

AG051

0"
1"

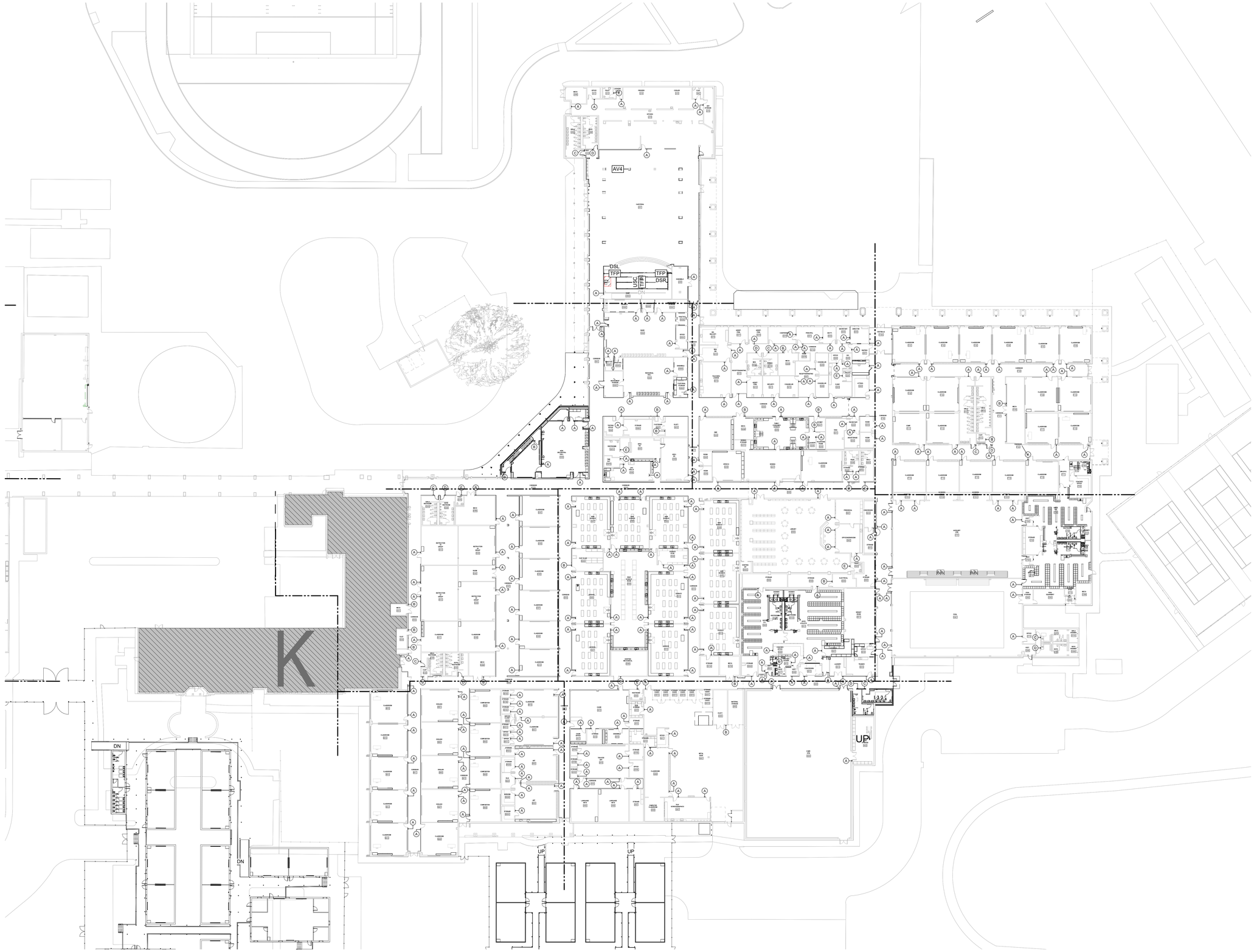
PROPOSAL

ISSUE FOR P

1ST FLOOR GRAPHICS & SIGNAGE PLAN - COMPOSITE

AG101

FOR BLUEBEAM LABELING/OCR:



06 1ST LEVEL - GRAPHICS & SIGNAGE PLAN - COMPOSITE
1" = 30'-0"

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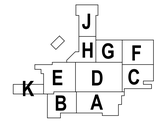

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1ST FLOOR GRAPHICS & SIGNAGE PLAN - COMPOSITE

AG101

0"
1"

1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA A
AG101A
FOR BLUEBEAM LABELING/OCR:

PROPOSAL

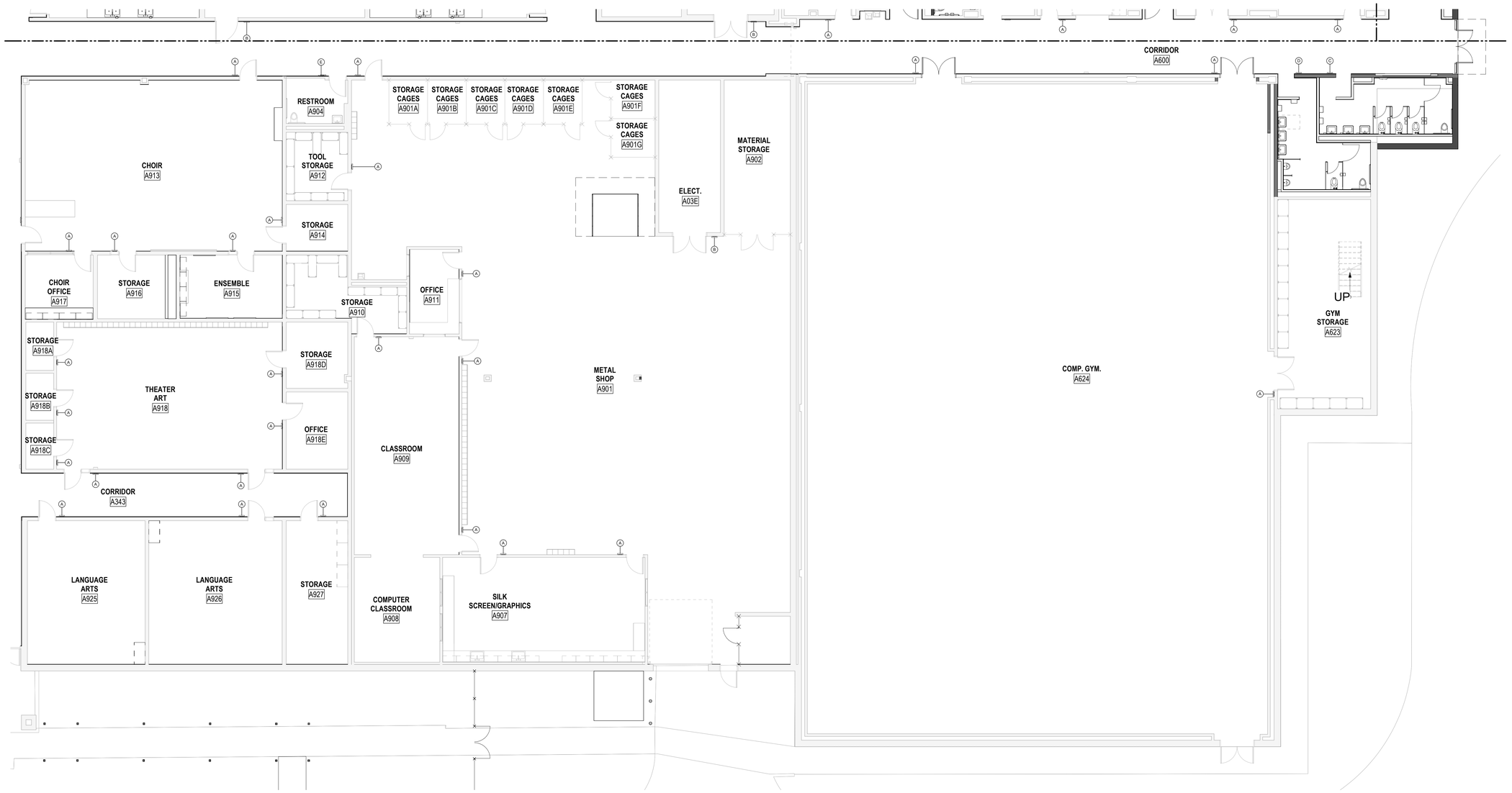
ISSUE FOR P

ROOM SIGNAGE SCHEDULE - 1ST LEVEL...

CFISD ROOM #	CD #	NAME	SIGN TYPE	SIGN TEXT	SIGN QTY.	REMARKS
	A03E	ELECT.	B			
N/A	A343	CORRIDOR				
N/A	A344	CORRIDOR				
N/A	A600	CORRIDOR				
	A622A	MEN'S RR	D	BOYS		
	A622B	WOMEN'S RR	C	GIRLS		
	A623	GYM STORAGE	A			
	A624	COMP. GYM.	A		2	
N/A	A900	CORRIDOR				
	A901	METAL SHOP	A			
	A901A	STORAGE CAGES				
	A901B	STORAGE CAGES				
	A901C	STORAGE CAGES				
	A901D	STORAGE CAGES				
	A901E	STORAGE CAGES				
	A901F	STORAGE CAGES				
	A901G	STORAGE CAGES				
	A901H	PAINT BOOTH				
	A901J	STORAGE CAGES				
	A902	MATERIAL STORAGE				
	A904	RESTROOM	E	RESTROOM		

ROOM SIGNAGE SCHEDULE - 1ST LEVEL...

CFISD ROOM #	CD #	NAME	SIGN TYPE	SIGN TEXT	SIGN QTY.	REMARKS
	A907	SILK SCREEN/GRAPHICS	A		2	
N/A	A908	COMPUTER CLASSROOM				
	A909	CLASSROOM	A		2	
	A910	STORAGE	A			
	A911	OFFICE	A			
	A912	TOOL STORAGE	A			
	A913	CHOIR	A		2	
	A914	STORAGE	A			
	A915	ENSEMBLE	A			
	A916	STORAGE	A			
	A917	CHOIR OFFICE	A			
	A918	THEATER ART	A		2	
	A918A	STORAGE	A			
	A918B	STORAGE	A			
	A918C	STORAGE	A			
	A918D	STORAGE	A			
	A918E	OFFICE	A			
	A925	LANGUAGE ARTS	A			
	A926	LANGUAGE ARTS	A			
	A927	STORAGE	A			



06 1ST LEVEL - GRAPHICS & SIGNAGE PLAN - AREA A
1/8" = 1'-0"

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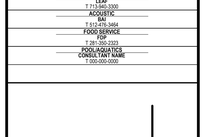

KEY PLAN
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DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA A

AG101A

1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA B

AG101B

FOR BLUEBEAM LABELING/OCR:

0"

1"

06 1ST LEVEL - GRAPHICS & SIGNAGE PLAN - AREA B
1/8" = 1'-0"

ROOM SIGNAGE SCHEDULE - 1ST LEVEL...

CFISD ROOM #	CD #	NAME	SIGN TYPE	SIGN TEXT	SIGN QTY.	REMARKS
N/A	B800	CORRIDOR				
	B801	ENGLISH	A			
	B802	COMPOSITION	A			
	B803	ENGLISH	A			
	B804	COMPOSITION	A			
	B805	ENGLISH	A			
	B806	COMPOSITION	A			
	B807	ENGLISH	A			
	B808	COMPOSITION	A			
	B809	CLASSROOM	A			
	B810	CLASSROOM	A			
N/A	B811	CORRIDOR				
	B812	CLASSROOM	A			
N/A	B813	CORRIDOR				
	B814	CLASSROOM	A			
	B816	CLASSROOM	A			
	B818	CLASSROOM	A			
N/A	B900	CORRIDOR				
	B919	CLASSROOM	A		2	
	B919A	STORAGE	A			
	B919B	STORAGE	A			
	B919C	STORAGE	A			
N/A	B920	SERVER CLOSET				
	B921	CLASSROOM	A		2	
	B921A	STORAGE	A			
	B921B	OFFICE	A			
	B921C	OFFICE	A			
	B922	ART	A		2	
	B922A	STORAGE	A			
	B922B	STORAGE	A			
	B923	KILN	A		2	
	B924	ART	A		2	
	B924A	STORAGE	A			
	B924B	WORKRM	A			

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KEY PLAN NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT BRANDON D. GRAY 37540 STATE OF TEXAS

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DATE 02/17/2025 | PROJECT NUMBER 220023

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BUILDING NUMBER

1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA B

AG101B

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0"
1"

1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA C
AG101C
FOR BLUEBEAM LABELING/OCR:

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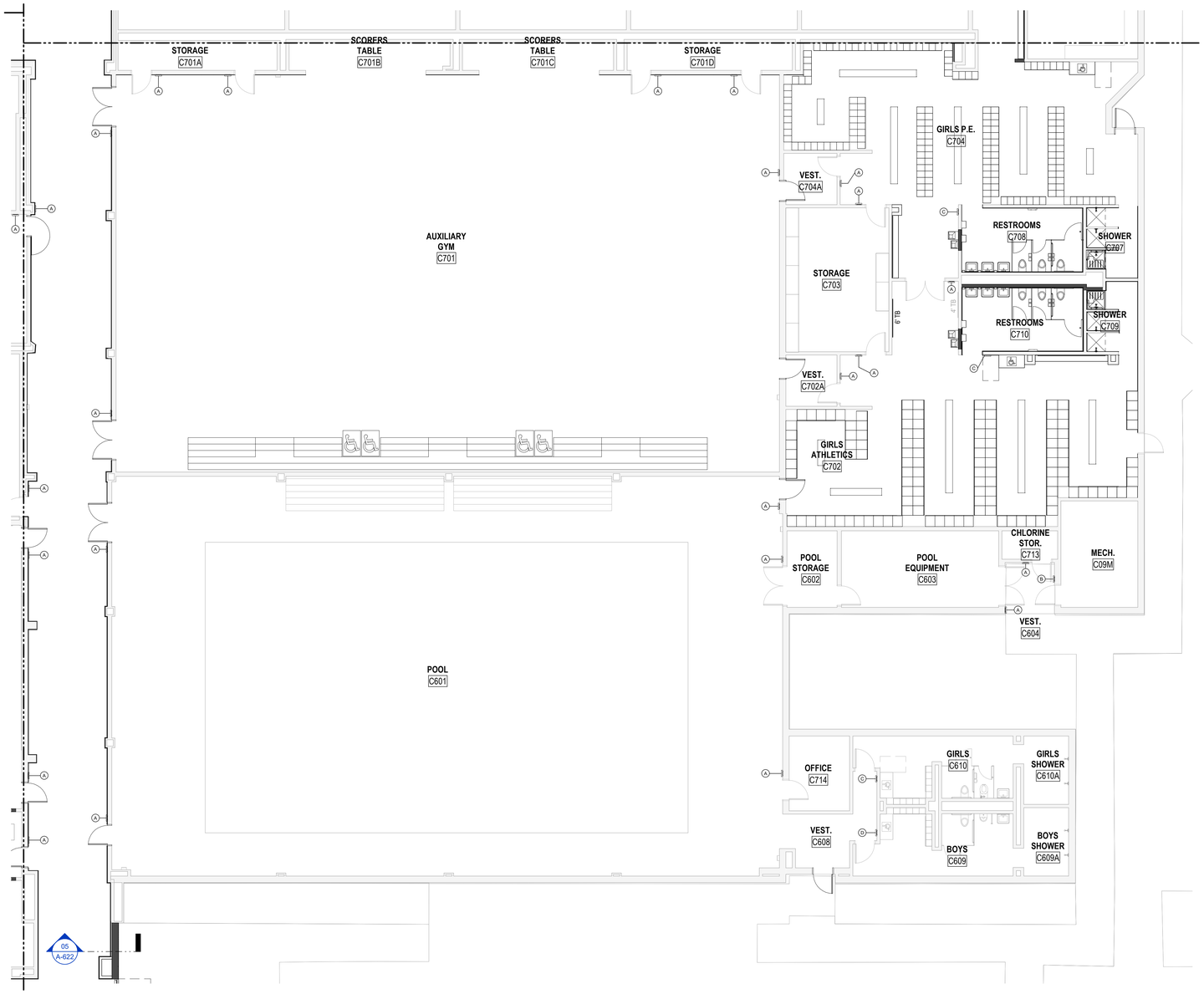
ROOM SIGNAGE SCHEDULE - 1ST LEVEL...

CFISD ROOM #	CD #	NAME	SIGN TYPE	SIGN TEXT	SIGN QTY.	REMARKS
	C09M	MECH.	B			
	C601	POOL	A		2	
	C602	POOL STORAGE	A			
	C603	POOL EQUIPMENT	A			
N/A	C608	VEST.				
	C609	BOYS	D			
N/A	C609A	BOYS SHOWER				
	C610	GIRLS	C			
N/A	C610A	GIRLS SHOWER				
N/A	C700	CORRIDOR				
	C701	AUXILIARY GYM	A		2	
	C701A	STORAGE	A		2	
N/A	C701B	SCORERS TABLE				
N/A	C701C	SCORERS TABLE				
	C701D	STORAGE	A		2	
	C702	GIRLS ATHLETICS	A			
N/A	C702A	VEST.				
	C703	STORAGE	A		2	
	C704	GIRLS P.E.	A		2	
N/A	C704A	VEST.				
N/A	C707	SHOWER				
	C708	RESTROOMS	C			
N/A	C709	SHOWER				
	C710	RESTROOMS	C			
	C713	CHLORINE STOR.	A			
	C714	OFFICE	A			



06 1ST LEVEL - GRAPHICS & SIGNAGE PLAN - AREA C
1/8" = 1'-0"

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H G F
K E D C
B A

KEY PLAN
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1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA C

AG101C

0"
1"

1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA D

AG101D

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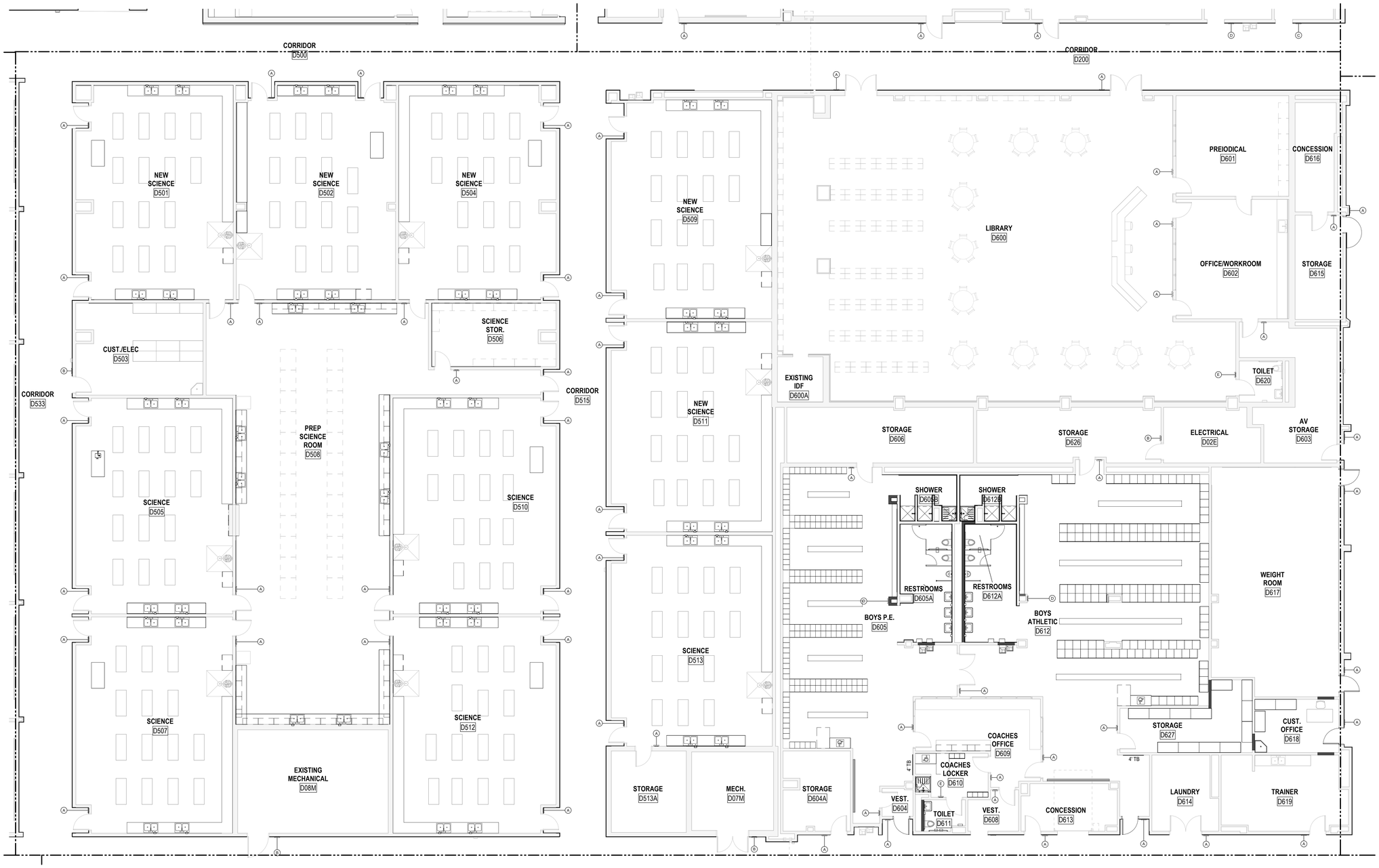
ROOM SIGNAGE SCHEDULE - 1ST LEVEL...

CFISD ROOM #	CD #	NAME	SIGN TYPE	SIGN TEXT	SIGN QTY.	REMARKS
	D02E	ELECTRICAL	B			
	D07M	MECH.	B			
	D08M	EXISTING MECHANICAL	B			
N/A	D200	CORRIDOR				
N/A	D500	CORRIDOR				
	D501	NEW SCIENCE	A		3	
	D502	NEW SCIENCE	A		3	
	D503	CUST./ELEC	B			
	D504	NEW SCIENCE	A		3	
	D505	SCIENCE	A		3	
	D506	SCIENCE STOR.	A		1	
	D507	SCIENCE	A		3	
	D508	PREP SCIENCE ROOM	A			
	D509	NEW SCIENCE	A		2	
	D510	SCIENCE	A		3	
	D511	NEW SCIENCE	A		2	
	D512	SCIENCE	A		3	
	D513	SCIENCE	A		2	
	D513A	STORAGE	A			
N/A	D515	CORRIDOR				
N/A	D533	CORRIDOR				
	D600	LIBRARY	A		2	
N/A	D600A	EXISTING IDF				
	D601	PREIODICAL	A			
	D602	OFFICE/WORKROOM	A		3	

ROOM SIGNAGE SCHEDULE - 1ST LEVEL...

CFISD ROOM #	CD #	NAME	SIGN TYPE	SIGN TEXT	SIGN QTY.	REMARKS
	D603	AV STORAGE	A			
N/A	D604	VEST.				
	D604A	STORAGE	A			
	D605	BOYS P.E.	A			
	D605A	RESTROOMS	D			
N/A	D605B	SHOWER				
	D606	STORAGE	A			
N/A	D608	VEST.				
	D609	COACHES OFFICE	A			
	D610	COACHES LOCKER	A			
	D611	TOILET	E			
	D612	BOYS ATHLETIC	A			
	D612A	RESTROOMS	D			
N/A	D612B	SHOWER				
	D613	CONCESSION	A			
	D614	LAUNDRY	A			
	D615	STORAGE	A			
	D616	CONCESSION	A			
	D617	WEIGHT ROOM	A			
	D618	CUST. OFFICE	A			
	D619	TRAINER	A			
	D620	TOILET	E			
	D626	STORAGE	A			
	D627	STORAGE	A			



06 1ST LEVEL - GRAPHICS & SIGNAGE PLAN - AREA D
1/8" = 1'-0"

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CONSULTANT NAME
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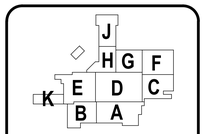

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1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA D

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0"
1"

1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA E

AG101E

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06 1ST LEVEL - GRAPHICS & SIGNAGE PLAN - AREA E
1/8" = 1'-0"

ROOM SIGNAGE SCHEDULE - 1ST LEVEL...

CFISD ROOM #	CD #	NAME	SIGN TYPE	SIGN TEXT	SIGN QTY.	REMARKS
	E01R	TOILET	E			
	E04B	BOYS RESTROOM	D			
	E04G	GIRLS RESTROOM	C			
	E05M	MECH	B			
	E08M	MECH	B			
N/A	E400	CORRIDOR				
	E401	CLASSROOM	A			
	E402	INSTRUCTION #4 GROUP	A			
	E403	CLASSROOM	A			
	E404	ROOM	A			
	E405	CLASSROOM	A			
	E406	INSTRUCTION #2 GROUP	A			
	E407	CLASSROOM	A			
	E408	CLASSROOM	A			
	E409	CLASSROOM	A			
	E410	CLASSROOM	A			
	E411	CLASSROOM	A			
	E412	INSTRUCTION #1 GROUP	A			
	E413	INSTRUCTION #3 GROUP	A			
	E417	RR				
	E418	RR				
	E419	BOYS RR				
	E420	GIRLS RR				
	E421	MECH	B			
N/A	E422	CORRIDOR				
N/A	E423	CORRIDOR				
	E424	ELEC	B			
	E428	CUST.	B			
	E429	GIRLS RESTROOM	C			
	E430	BOYS RESTROOM	D			
	E434	CUST.	B			
	E435	RR				
N/A	E436	HALLWAY				
	E437	MECH				
	E438	ROOM				
	E439	MECH				
	E440	CULINARY ARTS KITCHEN				
	E440A	STORAGE				
	E441	STORAGE				
	E442	CAFETERIA				
	E443	STORAGE CAGES				
	E444	ROOM				
	E445	STORAGE CAGES				
	E445A	IDF				
	E446	ROOM				
N/A	E447	CORRIDOR				
N/A	E449	CORRIDOR				
	E452	STORAGE	A			
	E455	CLOSET				
	E456	CLOSET				
	E457	STORAGE				
	E458	STORAGE				
	E459	OFFICE				
	E460	OFFICE				
	E461	OFFICE				
	E462	OFFICE				
	E463	CONFERENCE				
	E464	CONFERENCE				

19 ROOM SIGNAGE SCHEDULE

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STATE OF TEXAS

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1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA E

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0"

1"

1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA F

AG101F

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ROOM SIGNAGE SCHEDULE - 1ST LEVEL...

CFISD ROOM #	CD #	NAME	SIGN TYPE	SIGN TEXT	SIGN QTY.	REMARKS
	F01B	BOYS	D			
	F01C	CUST.	B			
	F01G	GIRLS	C			
	F01M	MECH.	B			
N/A	F100	CORRIDOR				
N/A	F100A	VESTIBULE				
	F101	CLASSROOM	A			
	F102	CLASSROOM	A			
	F103	CLASSROOM	A			
	F104	CLASSROOM	A			
	F105	CLASSROOM	A			
	F106	CLASSROOM	A			
	F107	CLASSROOM	A			
	F108	CLASSROOM	A			
	F109	CLASSROOM	A			
	F110	CLASSROOM	A			
	F111	COMP.	A			
	F112	CLASSROOM	A			
	F113	CLASSROOM	A			
	F114	CLASSROOM	A			
	F115	CLASSROOM	A			
	F116	CLASSROOM	A			
	F117	CLASSROOM	A			
	F118	CLASSROOM	A			
	F119	CLASSROOM	A			
N/A	F120	CORRIDOR				
N/A	F121	CORRIDOR				
N/A	F122	CORRIDOR				
	F705	COACHES OFFICE	A			
	F706	COACHES DRESSING	A			
	F706A	TOILET	E			
	F711	GIRLSP.E.	A			

06 1ST LEVEL - GRAPHICS & SIGNAGE PLAN - AREA F
1/8" = 1'-0"

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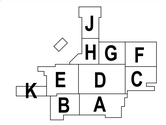

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0"
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1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA G

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06 1ST LEVEL - GRAPHICS & SIGNAGE PLAN - AREA G
1/8" = 1'-0"

ROOM SIGNAGE SCHEDULE - 1ST LEVEL...

CFISD ROOM #	CD #	NAME	SIGN TYPE	SIGN TEXT	SIGN QTY.	REMARKS
	G01M	MEN	D			
	G01W	WOMAN	C			
	G02B	BOYS	D			
	G02G	GIRLS	C			
	G02M	MECH.	B			
	G02S	STORAGE	A			
	G03M	MECH.	B			
	G03S	STORAGE	A			
N/A	G200	CORRIDOR				
	G201	WAITING	A			
	G201A	RECEPTION	A			
	G202	ATTEND.	A			
	G203	CLINIC	A			
	G204	TOILET	E			
	G205	ISO.	A			
	G206	OFFICE	A			
	G207	RECEPTION/WAITING	A			
	G207B	ROOM	A			
	G208	COUNSELOR	A			
	G209	COUNSELOR	A			
	G210	COUNSELOR	A			
	G211	SECURITY	A			
	G212	ASSIST. PRIN.	A			
	G213	RECEPTION/WAITING	A			
N/A	G213A	CORRIDOR				
	G214	TEACHERS LOUNGE	A			
	G215	MAIL RM.	A			
	G216	WK. RM./COPY	A			
	G217	ASSIST. PRIN.	A			
	G218	ASSIST. PRIN.	A			
	G219	CONFERENCE	A			
	G221	PRINCIPAL	A			
	G222	SECTY.	A			
	G223	SECRETARY	A			
	G224	DIRECTOR	A			
	G225	DMC	A			
	G226	FAMILY CONSUMER SCIENCE	A			
	G227	IDF/MDF	B			
	G228	LAUNDRY	B			
	G229	TELEPHONE ROOM.	A			
	G230	SECRETARY	A			
	G231	DIAG.	A			
	G232	ARD/STORAGE	A			
	G233	ROOM	A			
	G234	ROOM	A			
	G236	CLASSROOM	A			
	G237	SEWING	A			
N/A	G237A	SEWING STORAGE	A			
	G238	SPEECH	A			
N/A	G238	VEST.				
	G239	ROOM	A			
	G240	ROOM	A			

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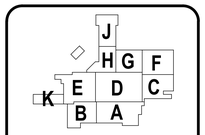

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

01.20.2025

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA G

AG101G

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Author
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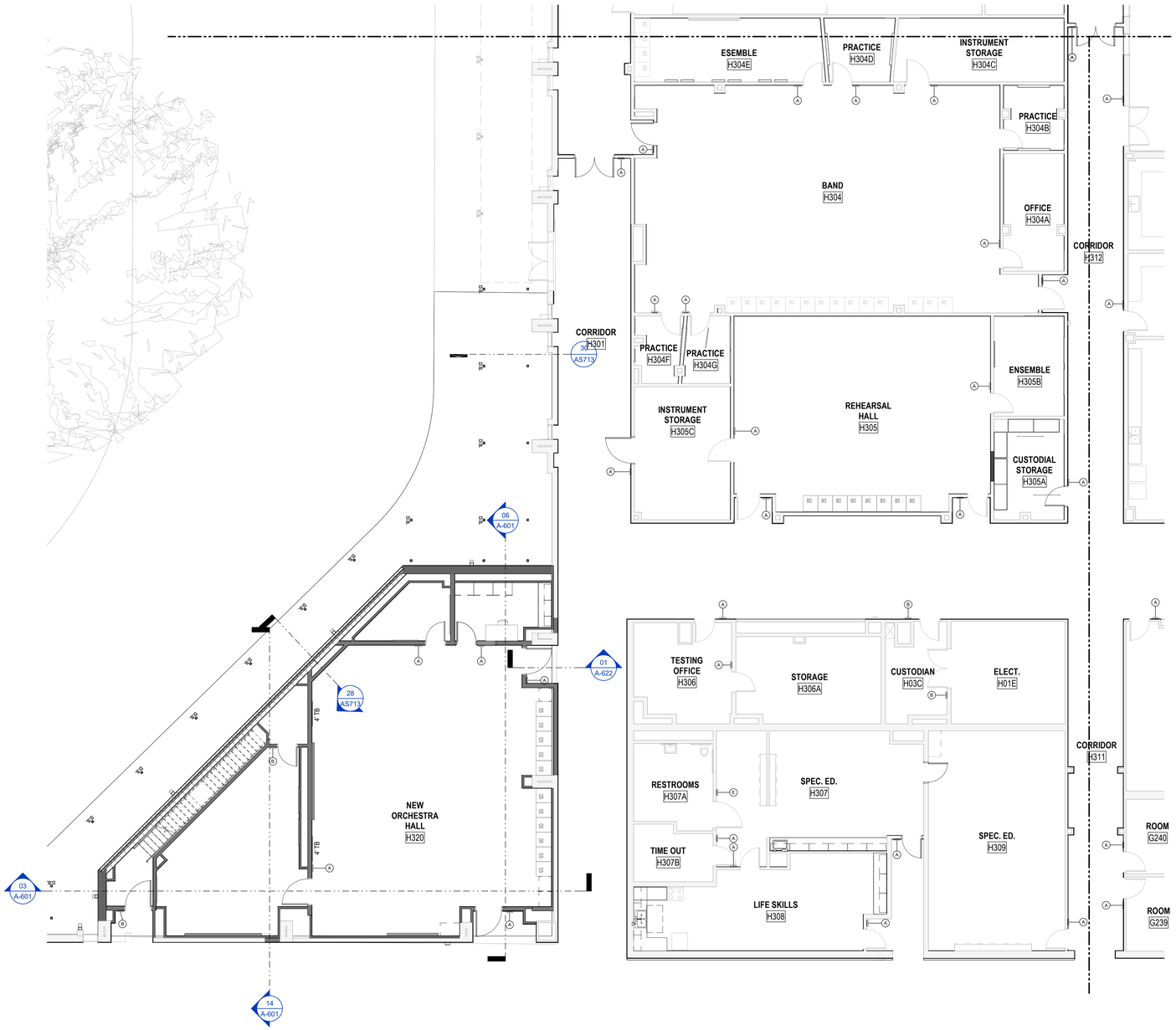
1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA H
AG101H
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



ROOM SIGNAGE SCHEDULE - 1ST LEVEL...

CFISD ROOM #	CD #	NAME	SIGN TYPE	SIGN TEXT	SIGN QTY.	REMARKS
	H01E	ELECT.	B			
	H03C	CUSTODIAN	B			
N/A	H300	CORRIDOR				
N/A	H301	CORRIDOR				
N/A	H302	CORRIDOR				
	H304	BAND	A			
	H304A	OFFICE	A			
	H304B	PRACTICE	A			
	H304C	INSTRUMENT STORAGE	A			
	H304D	PRACTICE	A			
	H304E	ESEMBLE	A			
	H304F	PRACTICE	A			
	H304G	PRACTICE	A			
	H305	REHEARSAL HALL	A			
	H305A	CUSTODIAL STORAGE	A			
	H305B	ENSEMBLE	A			
	H305C	INSTRUMENT STORAGE	A			
	H306	TESTING OFFICE	A			
	H306A	STORAGE	A			
	H307	SPEC. ED.	A			
	H307A	RESTROOMS	E			
	H307B	TIME OUT	A			
	H308	LIFE SKILLS	A			
	H309	SPEC. ED.	A			
N/A	H310	CORRIDOR				
N/A	H311	CORRIDOR				
N/A	H312	CORRIDOR				
N/A	H313	CORRIDOR				
	H320	NEW ORCHESTRA HALL	A			
	H320A	OFFICE	A			
	H320B	PRACTICE	A			
	H320C	STORAGE	A			
	H320D	ENSEMBLE	A			
	H320E	MECH STAIR	B			
	H321	MECH. MEZZ.	B			

06 1ST LEVEL - GRAPHICS & SIGNAGE PLAN - AREA H
1/8" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
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713-965-0608 P
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STRUCTURAL
KUBE ENGINEERS
T 713-840-7343
MEP/T
LEAP
T 713-540-3300
ACOUSTIC
T 512-476-3654
FOOD SERVICE
T 281-356-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
J
H G F
E D C
K B A
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT BRANDON D. BOX 27540 STATE OF TEXAS

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1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA H

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1ST FLOOR GRAPHICS & SIGNAGE PLAN - AREA J
AG101J
FOR BLUEBEAM LABELING:OOR:

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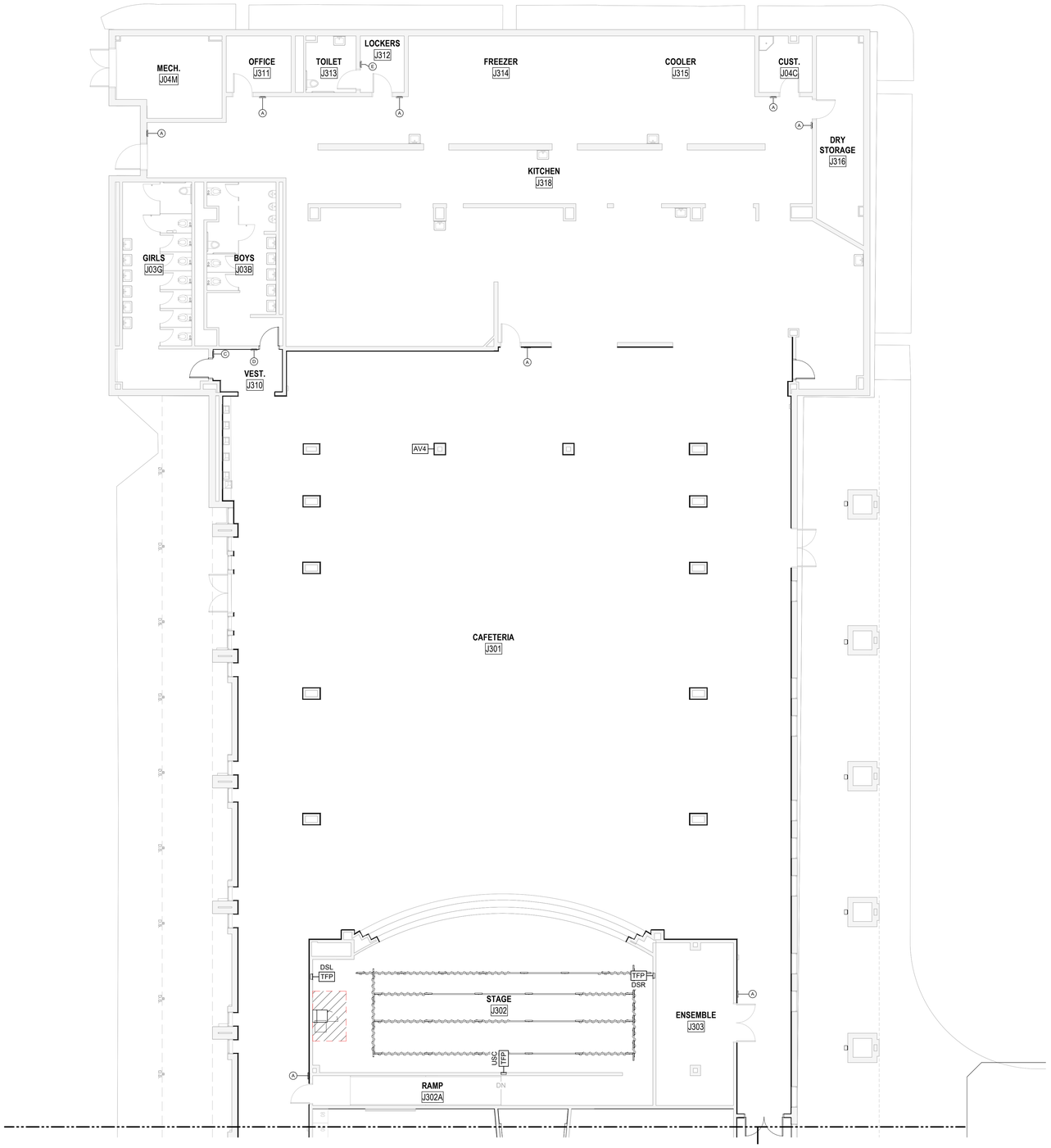

ROOM SIGNAGE SCHEDULE - 1ST LEVEL...

CFISD ROOM #	CD #	NAME	SIGN TYPE	SIGN TEXT	SIGN QTY.	REMARKS
	J03B	BOYS	D			
	J03G	GIRLS	C			
	J04C	CUST.	B			
	J04M	MECH.	B			
	J101	OFFICE				
	J102	OFFICE				
	J103	OFFICE				
	J105	OFFICE				
	J108	OFFICE				
	J109	OFFICE				
	J110	ROOM				
	J111	OFFICE				
	J114	CLOSET				
	J116	OFFICE				
	J117	OFFICE				
	J118	OFFICE				
	J119	OFFICE				
	J120	OFFICE				
	J121	OFFICE				
	J125	OFFICE				
	J126	OFFICE				
	J127	OFFICE				
	J129	OFFICE				
	J131	OFFICE				
	J132	OFFICE				
	J134	OFFICE				
	J135	OFFICE				
	J137	OFFICE				
	J138	OFFICE				
	J139	CLOSET				
	J141	OFFICE				
	J142	OFFICE				
	J143	OFFICE				
	J144	OFFICE				
	J146	CLOSET				
	J147	OFFICE				
	J148	OFFICE				
	J149	OFFICE				
	J150	OFFICE				
	J154	OFFICE				
	J301	CAFETERIA	A			
	J302	STAGE	A			
	J302A	RAMP	A			
	J303	ENSEMBLE	A			
N/A	J304	CORRIDOR				
N/A	J305	CORRIDOR				
N/A	J310	VEST.				
	J311	OFFICE	A			
	J312	LOCKERS	A			
	J313	TOILET	E			
N/A	J314	FREEZER				
N/A	J315	COOLER				
	J316	DRY STORAGE	A			
N/A	J317	VEST.				
	J318	KITCHEN	A			

06 1ST LEVEL - GRAPHICS & SIGNAGE PLAN - AREA J
1/8" = 1'-0"

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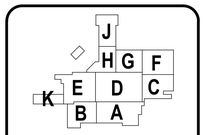

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0"
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GENERAL ABBREVIATIONS

--	NOT APPLICABLE	L	LENGTH, LEFT
		L/R	LEFT/RIGHT
@	AT	LAN	LOCAL AREA NETWORK
		LB	POUNDS
3DC	3D CONTROLLER	LF	LINEAR FEET
		LTG	LIGHTING
A/C	AIR CONDITIONING		
ABV	ABOVE	MAX	MAXIMUM
AC	ALTERNATING CURRENT	MDF	MAIN DISTRIBUTION FRAME
ADA	AMERICANS WITH DISABILITIES ACT	MECH	MECHANICAL
ADJ	ADJUSTABLE	MIN	MINIMUM
AFC	ABOVE FINISHED CEILING	MMFO	MULTIMODE FIBER OPTIC CABLE
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AFG	ABOVE FINISHED GRADE		
AHJ	AUTHORITY HAVING JURISDICTION	NA	NOT APPLICABLE
ALT	ALTERNATE	NC	NORMALLY CLOSED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	NEC	NATIONAL ELECTRICAL CODE
ARCH	ARCHITECT, ARCHITECTURAL	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS		NETWORK
AUX	AUXILIARY	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GAUGE	NO	NORMALLY OPEN
		NTS	NOT TO SCALE
BFC	BELOW FINISHED CEILING		
BFF	BELOW FINISHED FLOOR	OC	ON CENTER
BLDG	BUILDING	OD	OUTSIDE DIAMETER
BOH	BACK OF HOUSE	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BOP	BOTTOM OF PIPE	OFE	OWNER FURNISHED EQUIPMENT
BOS	BOTTOM OF STRUCTURE	OFOI	OWNER FURNISHED OWNER INSTALLED
C	CONDUIT	P	PRIMARY
CAT	CATEGORY CABLE	P/O	PART OF
CKT	CIRCUIT	PC	PERSONAL COMPUTER
CL	CENTER LINE	PDU	POWER DISTRIBUTION UNIT
CLG	CEILING	PGM	PROGRAM
CMU	CONCRETE MASONRY UNIT	PH	PHASE
COL	COLUMN	PNL	PANEL
CTRL	CONTROL	PROC	PROCESSOR
		PRH	PROJECT RECEPTACLE HEIGHT
D	DEPTH, DEEP	PRX	PROXIMITY SENSOR
DC	DIRECT CURRENT	PS	POWER SUPPLY
DC	DOWNSTAGE CENTER	PSF	POUNDS PER SQUARE FOOT
DEG	DEGREES	PSH	PROJECT SWITCH HEIGHT
DEMO	DEMOLITION	PSI	POUNDS PER SQUARE INCH
DFP	DIRECTOR'S FLOOR POCKET	PT	PASS THROUGH
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DIM	DIMENSION	PWR	POWER
DIV	DIVISION		
DS	DOWNSTAGE	QTY	QUANTITY
DSL	DOWNSTAGE LEFT		
DSR	DOWNSTAGE RIGHT	R	RIGHT
DWG	DRAWING	RCP	REFLECTED CEILING PLAN
		REF	REFERENCE, REFER
EA	EACH	REINF	REINFORCING
EC	ELECTRICAL CONTRACTOR	REQD	REQUIRED
EL	ELEVATION	REV	REVISION, REVISE
ELEC	ELECTRICAL	RM	ROOM
ENCL	ENCLOSURE	RO	ROUGH OPENING
EQ	EQUAL	RPM	REVOLUTIONS PER MINUTE
EQUIP	EQUIPMENT		
ER	EQUIPMENT RACK	S	SURFACE, SECONDARY
ESW	ETHERNET SWITCH	SCS	STRUCTURED CABLING SYSTEM
EXIST	EXISTING	SQFT	SQUARE FEET
		SIM	SIMILAR
FA	FIRE ALARM	SL	STAGE LEFT
FB	FLOOR BOX	SMFO	SINGLE MODE FIBER OPTIC CABLE
FLEX	FLEXIBLE	SMP	STAGE MANAGER POSITION
FLR	FLOOR	SPEC	SPECIFICATION
FO	FINISHED OPENING	SQ	SQUARE
FOH	FRONT OF HOUSE	SR	STAGE RIGHT
FPB	FIBER OPTIC PATCHBAY	STD	STANDARD
FPM	FEET PER MINUTE	STP	SHIELDED TWISTED PAIR
FT	FOOT, FEET	SURF	SURFACE
FV	FIELD VERIFY	SUSP	SUSPEND
GND	GROUND	TBD	TO BE DETERMINED
GA	GAUGE	THRU	THROUGH
		TYP	TYPICAL
H	HEIGHT		
HL	HOUSE LEFT	UC	UPSTAGE CENTER
HMP	HOUSE MANAGER POSITION	UL	UNDERWRITERS LABORATORIES, INC.
HOR	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HP	HORSEPOWER	UPS	UNINTERRUPTIBLE POWER SUPPLY
HR	HOUSE RIGHT	US	UPSTAGE
HZ	HERTZ	USL	UPSTAGE LEFT
		USR	UPSTAGE RIGHT
I/O	INPUT/OUTPUT	USB	UNIVERSAL SERIAL BUS
ID	INSIDE DIAMETER	UTP	UNSHIELDED TWISTED PAIR
IDF	INTERMEDIATE DISTRIBUTION FRAME		
IG	ISOLATED GROUND	V	VOLT
ISO	ISOLATED	VA	VOLT-AMPERE
		VERT	VERTICAL
JB	JUNCTION BOX	VIF	VERIFY IN FIELD
JBD	JUNCTION BOX - DATA		
JP	JUNCTION BOX - SYSTEM POWER	W/	WITH
		W/O	WITHOUT
KPD	KEYPAD	WP	WEATHERPROOF
KW	KILOWATT	WT	WEIGHT

AUDIO VISUAL ABBREVIATIONS

--	NOT APPLICABLE	KVM	KEYBOARD VIDEO MOUSE
ADA	AUDIO DISTRIBUTION AMPLIFIER	LA	LINE AMPLIFIER
AES	AUDIO ENGINEERING SOCIETY	LIM	LIMITER
ALS	ASSISTED LISTENING SYSTEM	LL	LINE LEVEL
AMP	AMPLIFIER		
ANT	ANTENNAE	MATV	MASTER ANTENNA TELEVISION
ANT DA	ANTENNA DISTRIBUTION AMPLIFIER	MIC	MICROPHONE
APB	AUDIO PATCH BAY	MICPRE	MICROPHONE PREAMP
AV	AUDIO VIDEO	MIX	MIXER
AVS	AUDIO VIDEO SWITCHER	ML	MICROPHONE LEVEL
		MOD	MODULATOR
BR	BLU-RAY DISC PLAYER	MON	MONITOR / VIDEO DISPLAY
BDR	BLU-RAY DISC RECORDER	MTR	MULTITRACK PLAYER/RECORDER
BGM	BACKGROUND MUSIC PLAYER	MTX	MATRIX
CAM	CAMERA	NG	NOISE GENERATOR
CATV	CABLE TELEVISION		
CCTV	CLOSED CIRCUIT TELEVISION	PA	PUBLIC ADDRESS
CCU	CAMERA CONTROL UNIT	PAD	AUDIO ATTENUATOR
CDP	COMPACT DISC PLAYER	PEQ	PARAMETRIC EQUALIZER
CG	CHARACTER GENERATOR	PSP	POWERED SPEAKER
CONV	CONVERTER	PTZ	PAN/TILT/ZOOM
CU	COLLABORATION UNIT		
		REC	RECORDER
DA	DISTRIBUTION AMPLIFIER		
DAN	DIGITAL AUDIO NETWORK	SATRX	SATELLITE RECEIVER
DM	DIGITAL MEDIA	SB	SCOREBOARD
DM-MTX	DIGITAL MEDIA MATRIX	SC	SCAN CONVERTER
DMP	DIGITAL MEDIA PLAYER	SDI	SERIAL DIGITAL INTERFACE
DMPS	DIGITAL MEDIA PRESENTATION SWITCHER	SPDT	SINGLE POLE DOUBLE THROW
DMR	DIGITAL MEDIA RECORDER	SPG	SYNC PULSE GENERATOR
DMRX	DIGITAL MEDIA RECEIVER / DECODER	SPL	SPLITTER
DMTX	DIGITAL MEDIA TRANSMITTER / ENCODER	SPK	SPEAKER
DMU	DIGITAL MESSAGE UNIT	SPLIT	MICROPHONE SPLITTER
DOC CAM	DOCUMENT CAMERA	SPST	SINGLE POLE SINGLE THROW
DP	DISPLAY PORT	STREAM	DIGITAL VIDEO STREAMING
DPDT	DOUBLE-POLE, DOUBLE-THROW	SUM	AUDIO SUMMING DEVICE
DPST	DOUBLE-POLE, SINGLE-THROW	SW	SWITCHER
DSP	DIGITAL SIGNAL PROCESSOR		
DVE	DIGITAL VIDEO EFFECTS	TD	THROW DISTANCE
DVR	DIGITAL VIDEO RECORDER	TP	TOUCH PANEL
		TV	TELEVISION
EBU	EUROPEAN BROADCASTING UNION		
EQ	EQUALIZER	VBS	VIDEO BURST SYNC
		VC	VOLUME CONTROL
FC	FORMAT CONVERTER	VCA	VOLTAGE CONTROLLED AMPLIFIER
FPM	FLAT PANEL MONITOR	VDA	VIDEO DISTRIBUTION AMPLIFIER
FORX	FIBER OPTIC RECEIVER	VGA	VIDEO GRAPHICS ARRAY
FOTX	FIBER OPTIC TRANSMITTER	VP	VIDEO PROJECTOR
		VPB	VIDEO PATCH BAY
HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE	VS	VECTOR SCOPE
HDRX	HDMI RECEIVER	VSG	VIDEO SYNC GENERATOR
HDSDI	HD SERIAL DIGITAL INTERFACE	VSR	VIDEO SERVER
HDTX	HDMI TRANSMITTER	VSW	VIDEO SWITCH
		VTC	VIDEO TELECONFERENCING SYSTEM
ICOM	INTERCOM	VWP	VIDEO WALL PROCESSOR
IFB	INTERRUPTED FOLDBACK		
IPTV	INTERNET PROTOCOL TELEVISION	WFM	WAVEFORM MONITOR
		WMS	WIRELESS MICROPHONE SYSTEM
JBA	JUNCTION BOX - AUDIO	WTX	WIRELESS TRANSMITTER
JBC	JUNCTION BOX - CONTROL		
JBE	JUNCTION BOX - ENG TRUCKS	XFMR	TRANSFORMER
JBL	JUNCTION BOX - AUDIO LINE LEVEL	XOVR	CROSSOVER
JBM	JUNCTION BOX - AUDIO MIC LEVEL		
JBR	JUNCTION BOX - RADIO		
JBS	JUNCTION BOX - SPEAKER		
JBT	JUNCTION BOX - BROADCAST		
JBV	JUNCTION BOX - VIDEO		

ROUGH-IN BOX SCHEDULE

TYPE 1 RECESSED: 1-GANG BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.
MASONRY: 1-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.
SURFACE MOUNTED: 1-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 2 RECESSED: 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/ RING EDGE TO BE FLUSH WITH FINISHED WALL.
MASONRY: 2-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.
SURFACE MOUNTED: 2-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 3 RECESSED: 3-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.
MASONRY: 3-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.
SURFACE MOUNTED: 3-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 4 RECESSED: 4-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.
MASONRY: 4-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.
SURFACE MOUNTED: 4-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 5 RECESSED: 5" SQUARE BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

TYPE 12 RECESSED: 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/ RING EDGE TO BE FLUSH WITH FINISHED WALL.
MASONRY: 1-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.
SURFACE MOUNTED: 1-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE A JUNCTION BOX (HxWxD) WITH SCREW COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

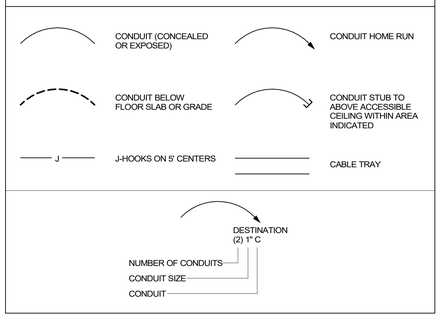
TYPE B JUNCTION BOX (HxWxD) WITH HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

TYPE C JUNCTION BOX (HxWxD) WITH LOCKING HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS

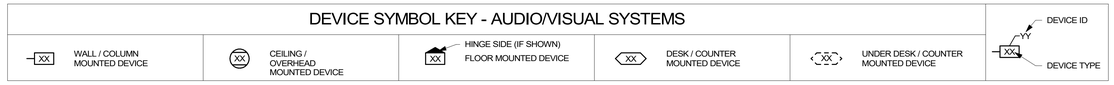
CONDUIT AND PATHWAY NOTES

1. COORDINATE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, CONDUIT, ETC. ACCORDING TO THE PROJECT GENERAL CONDITIONS.
2. PROVIDE A COMPLETE RACEWAY SYSTEM TO CONSIST OF METALLIC CONDUIT (EXCLUDING IN-GROUND PATHWAY), JUNCTION BOXES, DEVICE BACK BOXES, AND FITTINGS UNLESS NOTED OTHERWISE.
3. THE DRAWINGS INDICATE ONE ROUTING METHOD OF THE CABLING PATHWAY. CHANGES MAY BE MADE TO THE PATHWAY SYSTEM ROUTING TO ACCOMMODATE SITE CONDITIONS OR TO SIMPLIFY INSTALLATION PROVIDING THAT NOTED CONDUIT SIZE OR LARGER IS MAINTAINED AND DISTANCE LIMITATIONS LISTED BELOW ARE NOT EXCEEDED.
4. CONDUIT STUBS FROM DEVICES TO THE NEAREST CABLE TRAY, ACCESSIBLE CEILING, OR OTHER DESTINATIONS SHALL BE CONTINUOUS.
5. UNLESS NOTED OTHERWISE, CONDUIT IS 3/4 INCH TRADE SIZE.
6. SHOULD ROUGH-IN BOX DEVICE EXIST WITH NO CONDUIT INDICATED TO OR FROM, PROVIDE ¾ INCH TRADE SIZE CONDUIT FROM DEVICE TO ACCESSIBLE CEILING.
7. CONDUIT BODIES (LB'S) ARE NOT PERMITTED.
8. CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUITS SHALL BE TERMINATED WITH AN INSULATED BUSHING. PULL STRINGS WITH A MINIMUM PULL RATING OF 400 POUNDS SHALL BE PROVIDED.
9. FOR CONDUIT WITH AN INTERNAL DIAMETER GREATER THAN 2 INCHES, MAINTAIN A BEND RADIUS OF AT LEAST 10 TIMES THE INTERNAL CONDUIT DIAMETER.
10. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES. FLEX IS NOT PERMITTED UNLESS NOTED OTHERWISE.
11. NO SECTION OF CONDUIT SHALL EXCEED 100 FEET. RUNS IN EXCESS OF 100 FEET REQUIRE A PULL BOX / HANDHOLE / VAULT.
12. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR EQUIVALENT 180 DEGREES, BETWEEN PULL BOXES.
13. PULL BOX SHALL NOT BE USED IN LIEU OF A BEND. CONDUITS MUST RUN STRAIGHT THROUGH A PULL BOX WITH THE BEND LOCATED EITHER BEFORE OR AFTER THE PULL BOX.
14. PULL BOX LENGTH TO BE NO LESS THAN 8 TIMES THE DIAMETER OF THE LARGEST TERMINATING CONDUIT. PULL BOX WIDTH TO BE NO LESS ¼ THE LENGTH.
15. PROVIDE COVERS WITH LABELING FOR JUNCTION BOXES, BACK BOXES AND PULL BOXES WITHOUT FACEPLATES. LABELING MATCHES DEVICE NAME AS INDICATED ON DRAWINGS, FOR EXAMPLE "AV1". "ML".
16. ALL CONDUITS ENTERING OR EXITING EQUIPMENT RACKS TO BE ISOLATED WITH A NON-METALLIC SPACER OR FITTING.
17. PROVIDE CONDUIT TO CROSS INACCESSIBLE CEILINGS OR IN AREAS WITHOUT CEILINGS UNLESS NOTED OTHERWISE.
18. PROVIDE CONDUIT IN EXPOSED AREAS, MECHANICAL SPACES, FOOD SERVICES AREAS, AND ELEVATOR CONTROL ROOMS.
19. REGARDLESS OF PATHWAY TYPE, ALL CABLING SHALL BE SUPPORTED AT 4 FEET MAXIMUM INTERVALS. CABLES SHALL NOT BE LAID DIRECTLY ON THE CEILING TILE OR RAILS OR STRAPPED TO CONDUIT.
20. ROUTE CONDUIT WITH OTHER BUILDING SERVICES AND CONCEAL WHENEVER POSSIBLE. GROUP AND RUN PARALLEL ALONG A SINGLE BUILDING COLUMN LINE, HOLD TIGHT TO STRUCTURE AND PAINT AS DIRECTED BY THE ARCHITECT.
21. IF AV AND POWER CONDUITS MUST CROSS, CROSS AT RIGHT ANGLES.
22. FOR IN-SLAB OR UNDERGROUND CONDUIT ENTERING A BUILDING, TRANSITION BACK TO METALLIC CONDUIT WITHIN 3 FEET OF THE ENTRY POINT.
23. REFER TO PROJECT MANUAL FOR FIRE STOPPING REQUIREMENTS.
24. REFER TO ELECTRICAL DRAWINGS AND PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

PATHWAY DISTRIBUTION



DEVICE SYMBOL KEY - AUDIO/VISUAL SYSTEMS



SYMBOL LEGEND - AUDIO/VISUAL SYSTEMS

SIZES, DIMENSIONS AND NOTES DESCRIBE TYPICAL REQUIREMENTS. IF APPLICABLE, VARIATIONS AND/OR ADDITIONAL REQUIREMENTS WILL BE NOTED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE TO CENTER OF ROUGH-IN BOX.

TYPE	DEVICE	ROUGH-IN BOX (H"xW"xD")	DEVICE COVER SIZE	MOUNTING HEIGHT			DEVICE NOTES	CONDUIT NOTES
				WALL/COLUMN	CEILING/OVERHEAD	FLOOR		
ANT	ANTENNA PLATE	TYPE 2	2-GANG	REF ELEVATIONS	--	--	--	REF PLANS
AV4	AV PLATE	TYPE 4	4-GANG	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
M2	MICROPHONE PLATE	TYPE 2	2-GANG	BUILDING OUTLET HEIGHT	--	--	--	REF PLANS
PS	PROJECTION SCREEN	TYPE 1	1-GANG	REF ELEVATIONS/DETAILS	FLUSH IN CEILING	--	--	REF PLANS
TFP	TECHNICAL FACILITY PANEL	TYPE A (10"x10"x4")	REF LEGEND NOTE 3	2'-0" AFF	--	--	--	REF PLANS
VP	VIDEO PROJECTOR LOCATION	TYPE 2	2-GANG	REF ELEVATIONS/DETAILS	FLUSH IN CEILING	--	--	REF PLANS

LEGEND NOTES - AUDIO/VIDEO SYSTEMS

1 PROVIDE HOFFMAN PAINTED STEEL TYPE 1 SCREW COVER PULL BOX NO LESS THAN 12" W X 12" H X 4" D UNLESS NOTED OTHERWISE. SIZE JUNCTION BOX TO NUMBER AND SIZE OF CONDUIT. PROVIDE 3/4" VOID FREE AC PLYWOOD WITH TWO COATS FIRE RETARDANT WHITE PAINT ON BACK WALL OF JUNCTION BOX FROM SIDEWALL TO SIDEWALL. A SINGLE WIRING TROUGH WILL NOT BE ACCEPTABLE AS A REPLACEMENT TO/FOR INDIVIDUAL JUNCTION BOXES.

2 CRITICAL DIMENSIONS ARE NOTED IN DOCUMENTATION. FOR ANY DIMENSION THAT IS NOT PROVIDED, FIELD COORDINATE FINAL LOCATION.

3 FIELD COORDINATE PLATE/PANEL COVER SIZE BASED ON MOUNTING CONDITIONS. SURFACE MOUNTED ROUGH-IN PLATE/PANEL SHOULD NOT EXTEND BEYOND THE ROUGH-IN BOX.

DEVICE SYMBOL KEY - SPEAKER SYSTEMS

SYMBOL LEGEND - SPEAKER SYSTEMS

SIZES, DIMENSIONS AND NOTES DESCRIBE TYPICAL REQUIREMENTS. IF APPLICABLE, VARIATIONS AND/OR ADDITIONAL REQUIREMENTS WILL BE NOTED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE TO CENTER OF ROUGH-IN BOX.

TYPE	DEVICE	ROUGH-IN BOX (H"xW"xD")	DEVICE COVER SIZE	MOUNTING HEIGHT			DEVICE NOTES	CONDUIT NOTES
				WALL/COLUMN	CEILING/OVERHEAD	FLOOR		
1	SPEAKER	TYPE 2	--	--	--	--	--	REF PLANS
2	SPEAKER	TYPE 2	--	--	--	--	--	REF PLANS

LEGEND NOTES - SPEAKER SYSTEMS

1 MOUNTING HEIGHTS NOTED IN LEGEND ABOVE ARE IN REFERENCE TO THE ROUGH-IN BOX. REFERENCE DRAWINGS FOR LOUDSPEAKER LOCATIONS AND MOUNTING CONDITIONS.

PROPOSAL
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FSD
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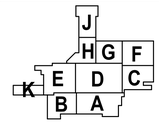
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

CLIENT
Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

GENERAL NOTES AND LEGENDS

AV-000

0"

1"

AUDIO-VIDEO EQUIPMENT RACK DETAILS

AV-090

FOR BLUEBEAM LABELING OOR:

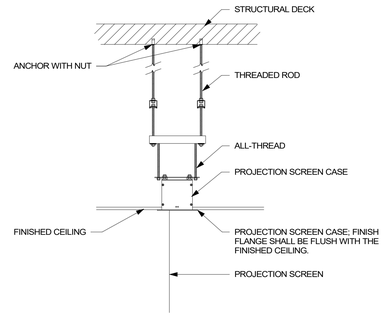
ISSUE FOR PROPOSAL

AV PROJECTION SCREEN SCHEDULE

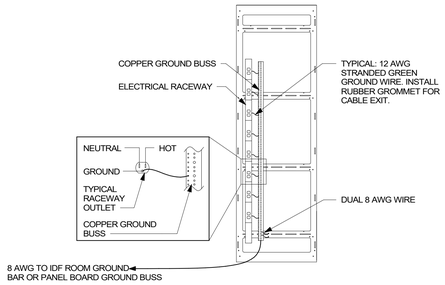
SCREEN ID	IMAGE WIDTH	IMAGE HEIGHT	ASPECT RATIO	SCREEN TYPE	HEIGHT TO BOTTOM OF IMAGE	COMMENTS
PS-CAF	176"	99"	1.78	1	24"	

AV RACK SCHEDULE

RACK DESIGNATOR	ROOM	RACK STYLE	TYPE #	RACK MOUNTING HEIGHT (AFF TO BOTTOM OF RACK)	JBR MOUNTING HEIGHT (AFF TO CENTER OF JBR)		DETAIL (SEE BELOW)	NOMINAL SIZE (RU)	NOMINAL DEPTH	OPTIONS	NOTES
					WALL RACK	FLOOR RACK					
ER-SMP	STAGE J302	FLOOR SUPPORTED WALL RACK	1		3' - 10 1/2"		1/AV-090	40	28"		

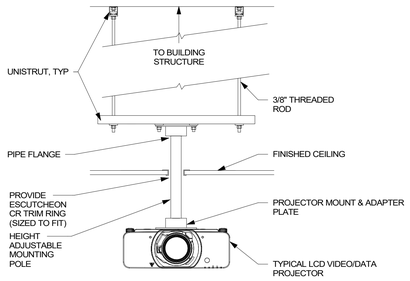


3 PROJECTION SCREEN MOUNTING DETAIL
1" = 1'-0"

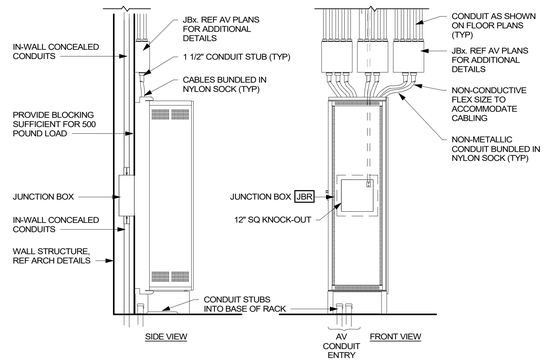


NOTES:
1. PROVIDE ISOLATED GROUND OUTLETS WITH GROUNDING SCHEME AS SHOWN.
2. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH CIRCUIT.

2 RACK GROUND BAR DETAIL
1/2" = 1'-0"



4 PROJECTOR MOUNTING DETAIL
1" = 1'-0"



1 FLOOR SUPPORTED WALL RACK MOUNTING DETAIL
1/2" = 1'-0"

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CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

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KEY PLAN

NORTH: PLAN TRUE

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

AUDIO-VIDEO EQUIPMENT RACK DETAILS

AV-090

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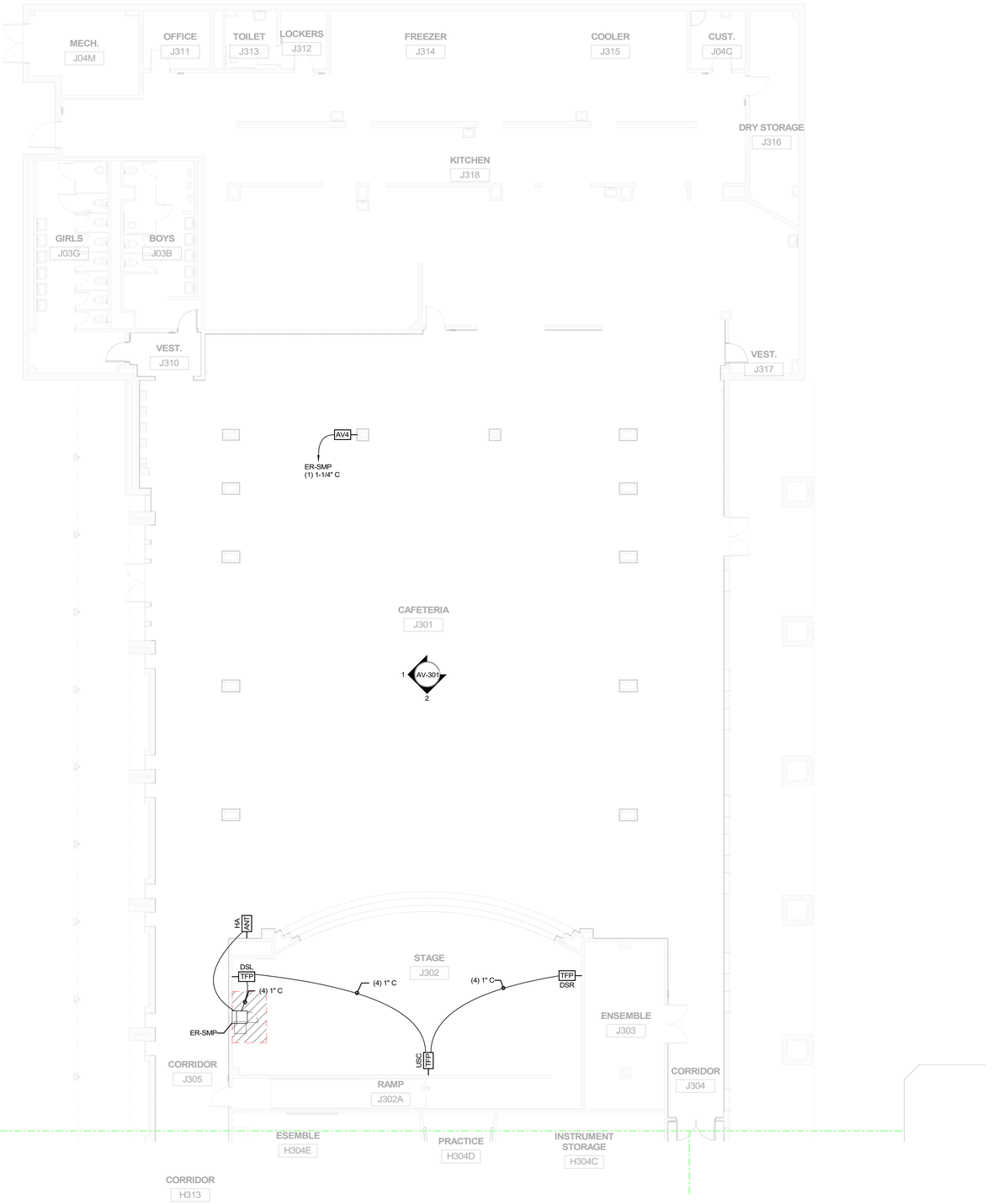
0"
1"

1ST FLOOR PLAN - AREA J
AV-101J
FOR BLUEBEAM LABELING:

ISSUE FOR PROPOSAL



01 AV_1ST LEVEL - FLOOR PLAN - AREA J
1/8" = 1'-0"

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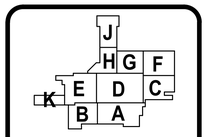

KEY PLAN
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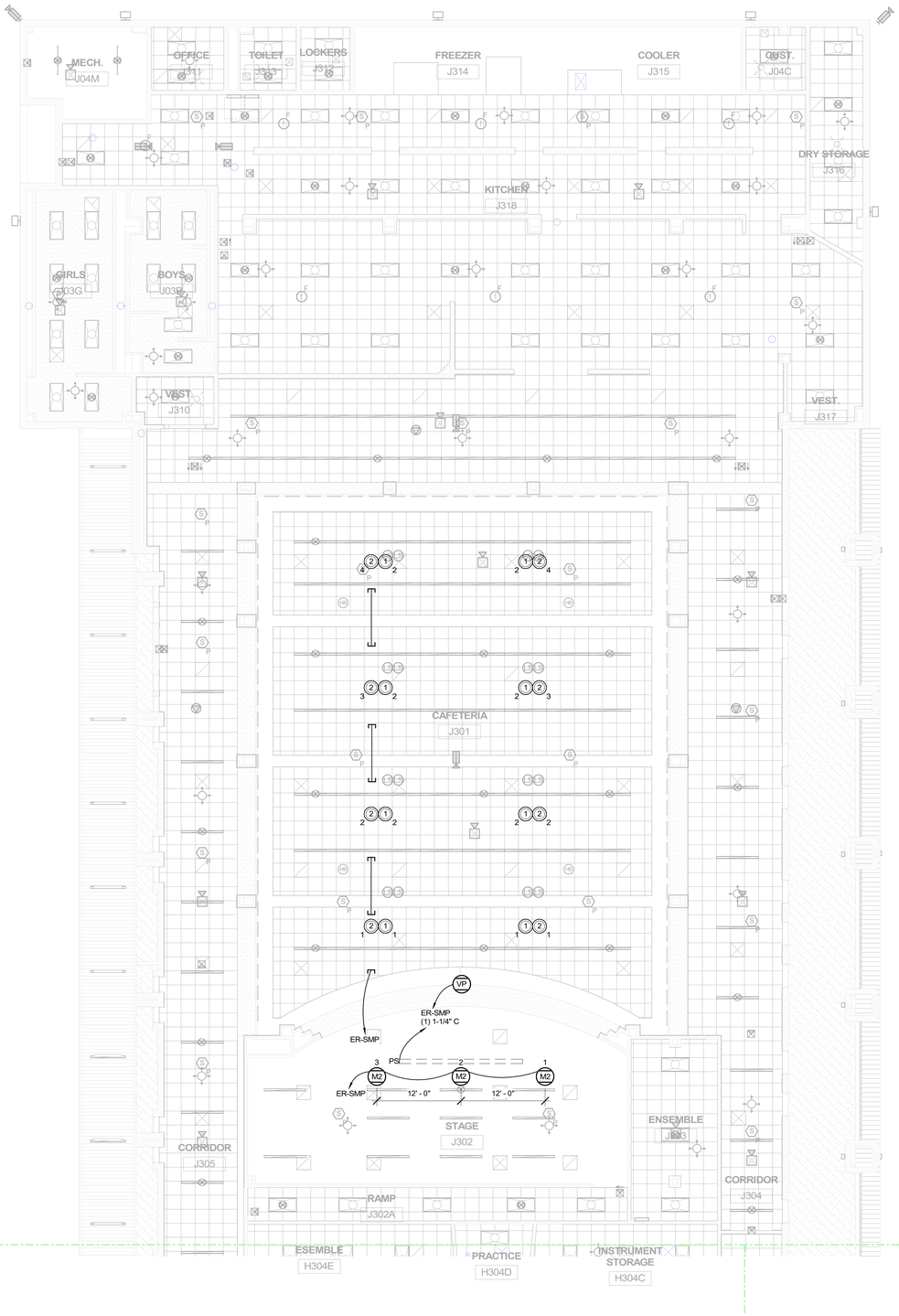
BUILDING NUMBER

1ST FLOOR PLAN - AREA J

AV-101J



01 AV_1ST LEVEL - CEILING PLAN - AREA J
1/8" = 1'-0"

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1ST FLOOR CEILING PLAN - AREA J

AV-201J

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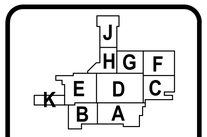

KEY PLAN
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DISCIPLINE

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PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

AV-201J

ISSUE FOR PROPOSAL

ELEVATIONS

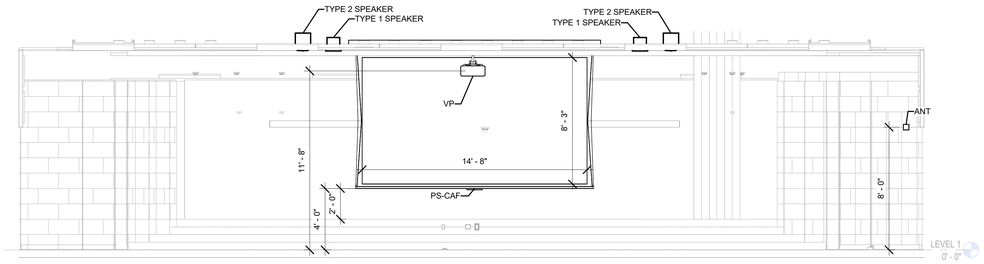
AV-301

FOR BLUEBEAM LABELING/OCR:

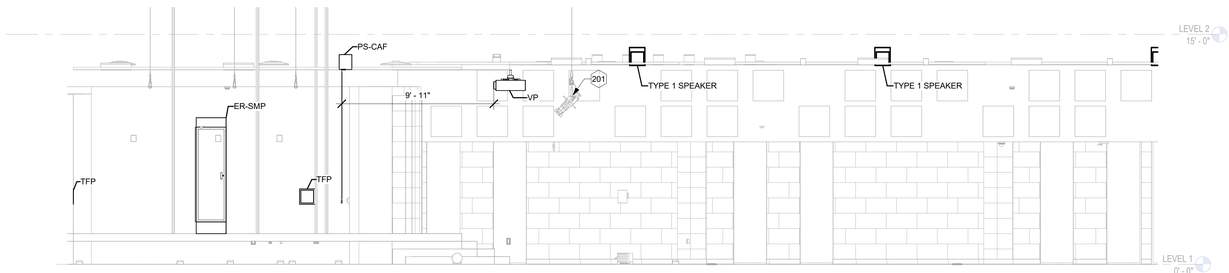
0"

1"

KEYNOTES	
201	THEATRICAL EQUIPMENT SHOWN FOR COORDINATION PURPOSES ONLY



2 CAFETERIA PLAN SOUTH ELEVATION
1/4" = 1'-0"



1 CAFETERIA PLAN WEST ELEVATION
1/4" = 1'-0"

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ELEVATIONS

AV-301

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0"
1"

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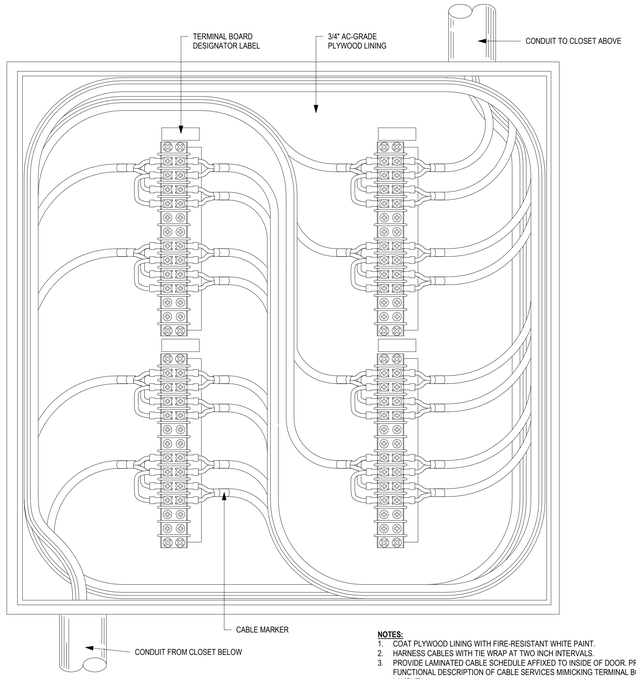
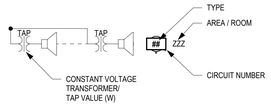
SPEAKER JUNCTION BOX TERMINATION DETAILS



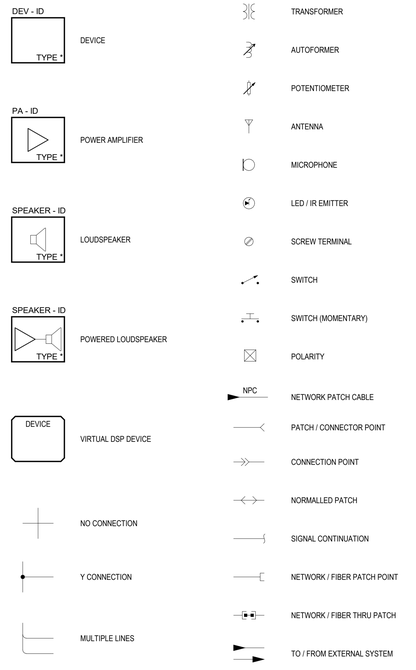
NOTES:
1. COAT PLYWOOD LINING WITH FIRE-RESISTANT WHITE PAINT.
2. HARNESS CABLES WITH TIE WRAP AT TWO INCH INTERVALS.
3. PROVIDE LAMINATED CABLE SCHEDULE AFFIXED TO INSIDE OF DOOR. PROVIDE FUNCTIONAL DESCRIPTION OF CABLE SERVICES MIMICKING TERMINAL BOARD LAYOUT.

PANEL SYMBOL LEGEND

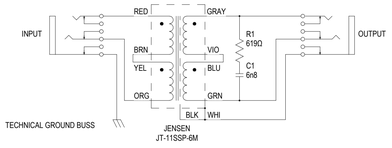
PARALLELED SPEAKERS DETAIL



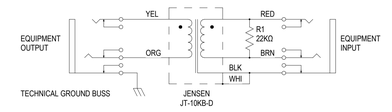
FUNCTIONAL SYMBOL LEGEND



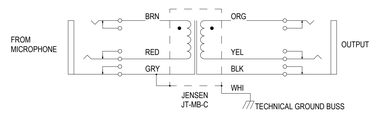
AUDIO TRANSFORMER WIRING



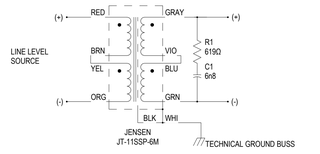
1:1 LINE INPUT TRANSFORMER AND LINE BRIDGING TRANSFORMER



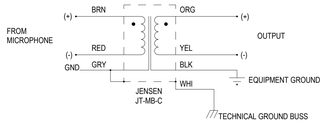
4:1 LINE INPUT TRANSFORMER (PRO TO CONSUMER EQUIPMENT)



MICROPHONE TRANSFORMER

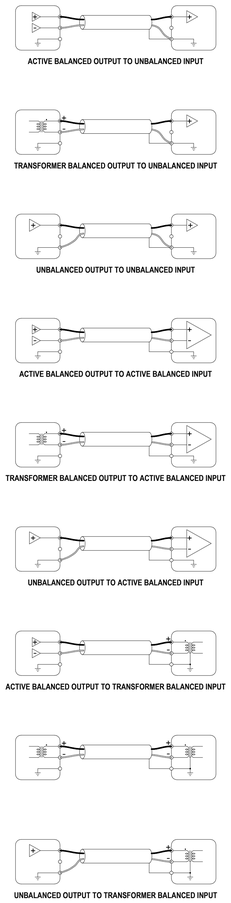


ISOLATION TRANSFORMER



MICROPHONE LEVEL BRIDGING TRANSFORMER

AUDIO SHIELD CONNECTIONS



ACTIVE BALANCED OUTPUT TO UNBALANCED INPUT

TRANSFORMER BALANCED OUTPUT TO UNBALANCED INPUT

UNBALANCED OUTPUT TO UNBALANCED INPUT

ACTIVE BALANCED OUTPUT TO ACTIVE BALANCED INPUT

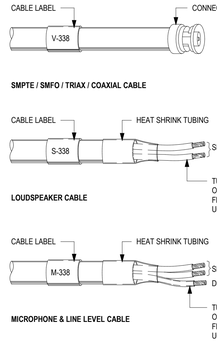
TRANSFORMER BALANCED OUTPUT TO ACTIVE BALANCED INPUT

UNBALANCED OUTPUT TO ACTIVE BALANCED INPUT

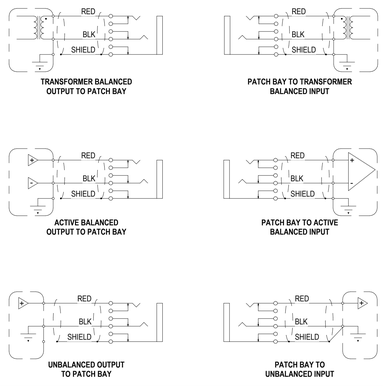
ACTIVE BALANCED OUTPUT TO TRANSFORMER BALANCED INPUT

UNBALANCED OUTPUT TO TRANSFORMER BALANCED INPUT

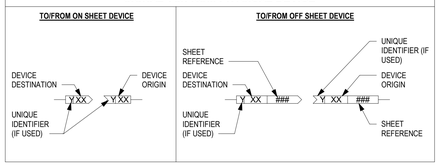
AV CABLE PREPARATION DETAILS



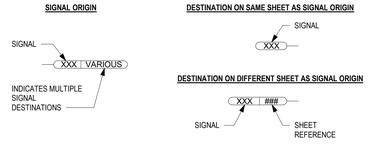
TYPICAL DEVICE TO PATCHBAY WIRING



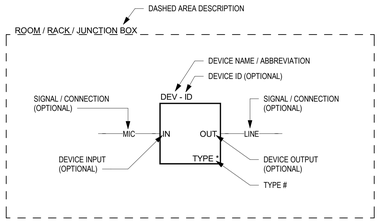
SIGNAL TO/FROM PHYSICAL DEVICE



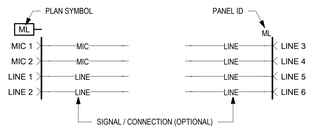
SIGNAL TO/FROM VIRTUAL DEVICE



DEVICE SIGNAL FLOW DETAIL



PLATE/PANEL SIGNAL FLOW DETAIL



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ACOUSTIC
ACOUSTIC
T-512-476-3654
FOOD SERVICE
FOOD SERVICE
T-281-290-2221
POOL/AQUATICS
CONSULTANT NAME
T-000-000-0000

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

AUDIO-VIDEO FUNCTIONAL LEGEND AND STANDARD DETAILS

AV-1100

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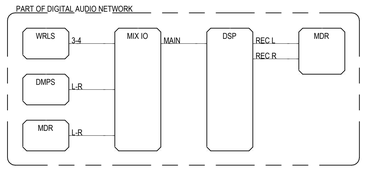

6 DIGITAL AUDIO NETWORK ROUTING DIAGRAM
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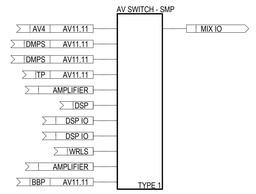

3 CAFETERIA NETWORK FUNCTIONAL DIAGRAM
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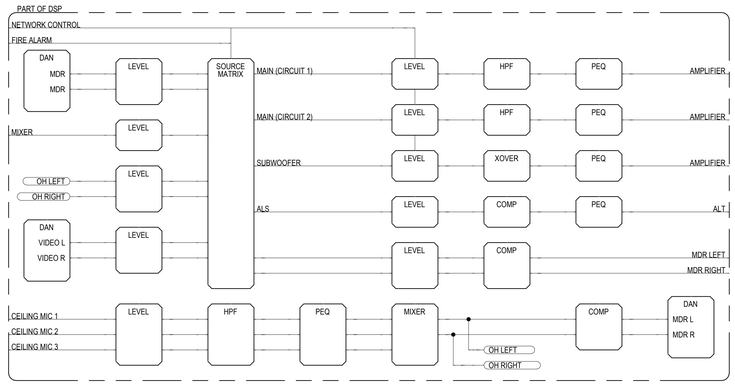

5 SOUND SYSTEM DSP FUNCTIONAL DIAGRAM
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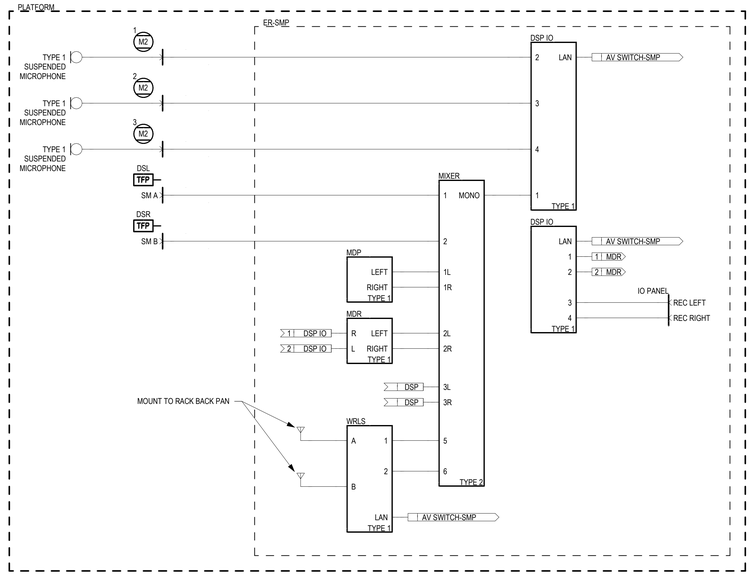

2 AUDIO PRESENTATION SYSTEM FUNCTIONAL DIAGRAM
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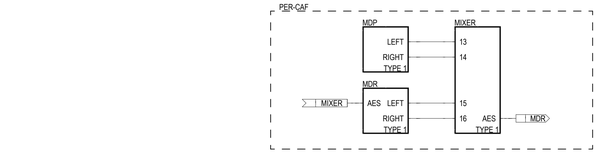

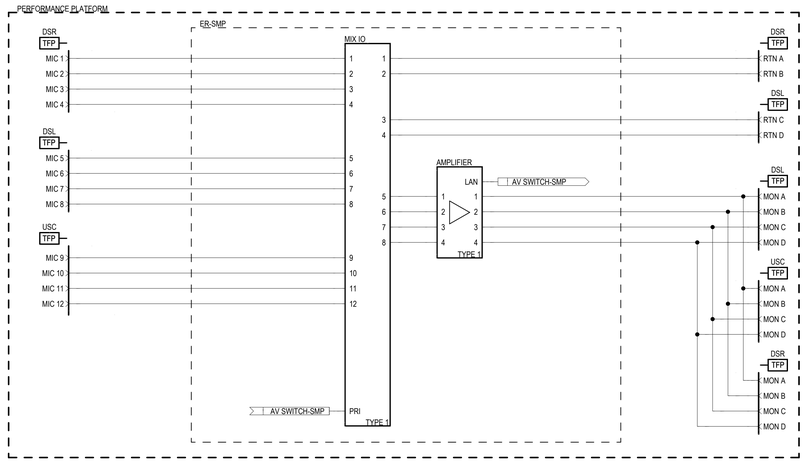

4 STAGE IO FUNCTIONAL DIAGRAM
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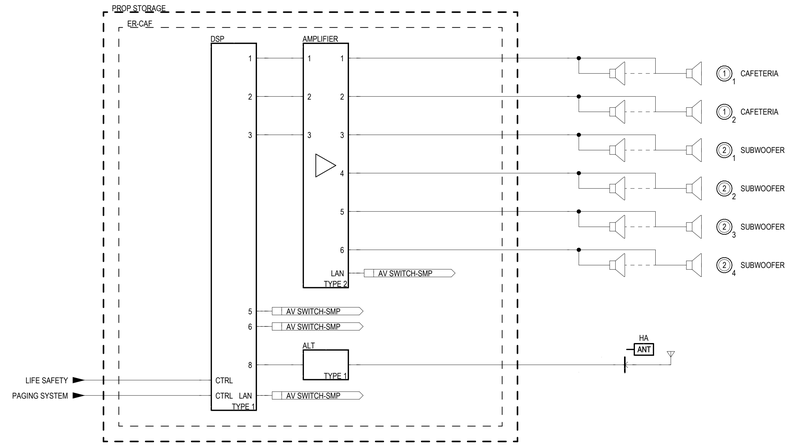

1 PROCESSING AND AMPLIFICATION FUNCTIONAL DIAGRAM
N.T.S.

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POOL/AQUATICS CONSULTANT NAME
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Arnold Middle School
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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN
NORTH PLAN TRUE

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Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

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CAFETERIA FUNCTIONAL DIAGRAMS

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CAFETERIA FUNCTIONAL DIAGRAMS

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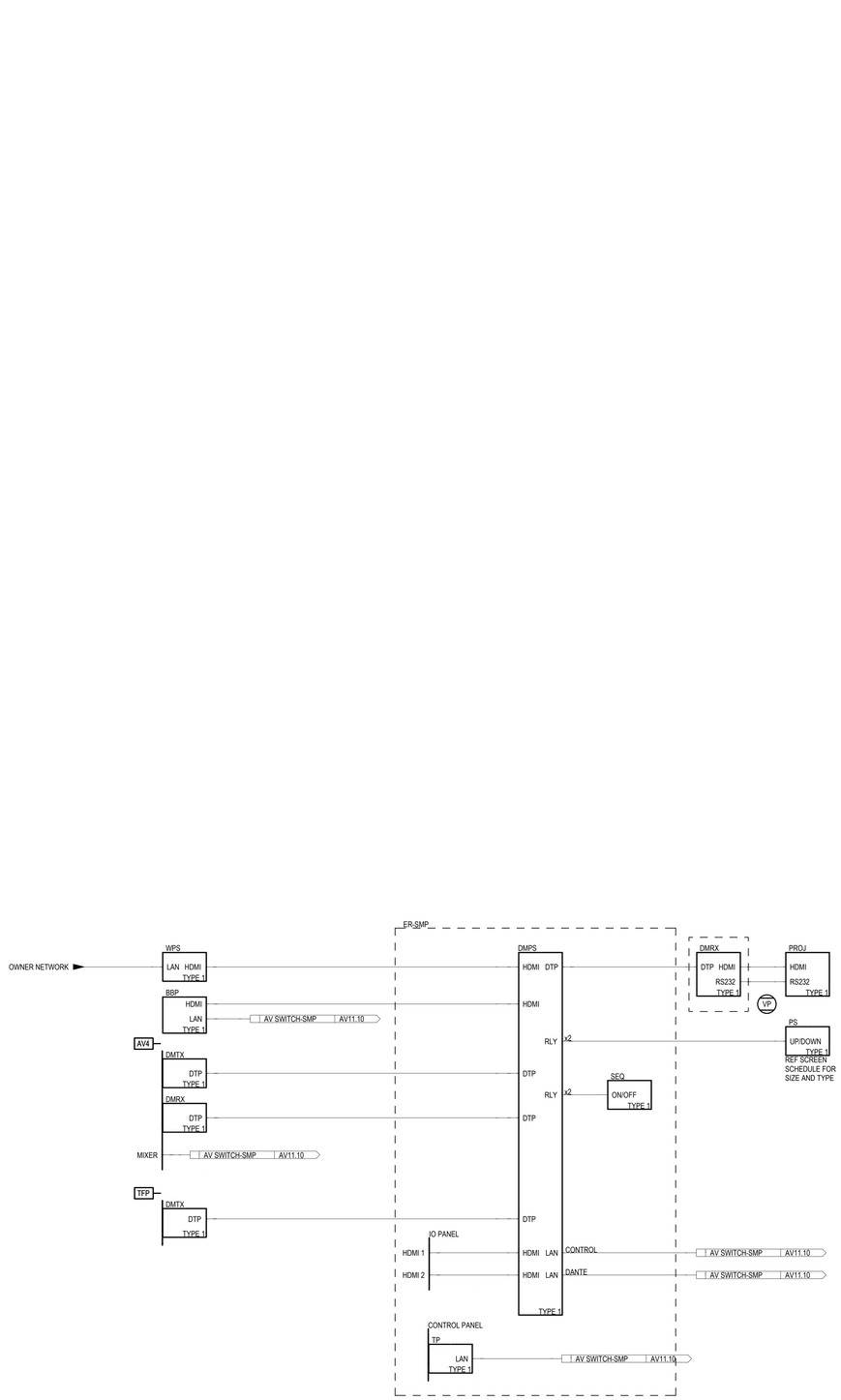
FOR BLUEBEAM LABELING/OCR:



1 AV FUNCTIONAL DIAGRAM
N.T.S.

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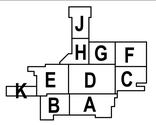

KEY PLAN
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DATE	PROJECT NUMBER
2/17/2025	220023

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CAFETERIA FUNCTIONAL DIAGRAMS

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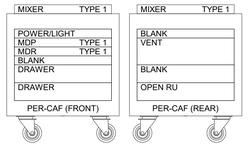
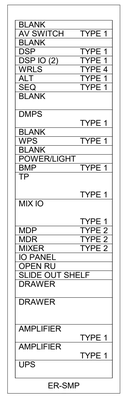
0"
1"

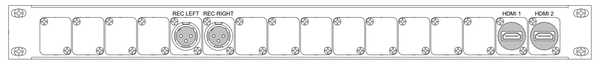
LOOSE EQUIPMENT - CAFETORIUM (REFERENCE SPECIFICATION 27 41 16)			
QUANTITY	DESCRIPTION	TYPE	NOTES
4	BODYPACK WIRELESS MICROPHONE	1	--
4	HANDHELD WIRELESS MICROPHONE	1	--
1	WIRELESS MICROPHONE CHARGE BASE	1	--
6	VOCAL MICROPHONE	1	--
2	CHOIR MICROPHONE	1	--
2	PODIUM MICROPHONE	1	--
4	GENERAL PURPOSE MICROPHONE	1	--
6	MICROPHONE STAND AND MOUNTING	1	--
2	MICROPHONE STAND AND MOUNTING	2	--
4	MICROPHONE STAND AND MOUNTING	3	--
4	MICROPHONE STAND AND MOUNTING	4	--
4	MICROPHONE STAND AND MOUNTING	5	--
2	MONO DI BOX	1	--
1	STEREO DI BOX	1	--
1	STEREO COMPUTER DI BOX	1	--
1	STEREO COMPUTER USB DI BOX	1	--
4	SPEAKER	3	--
2	SPEAKER STAND	1	--
8	ALS RECIEVER	1	--
1	PORTABLE EQUIPMENT RACK	1	PER-CAF
4	MICROPHONE CABLE	06	--
12	MICROPHONE CABLE	25	--
4	MICROPHONE CABLE	50	--
2	INSTRUMENT CABLE	06	--
2	SPEAKER CABLE	06	--
4	SPEAKER CABLE	25	--
2	SPEAKER CABLE	50	--
2	ETHERNET AUDIO CABLE	25	--
1	POWER EXTENSION CABLE	25	--
1	HEADPHONES	1	--
1	MOBILE CABINET	1	--
1	MOBILE CABINET	2	--



5 PER-CAF ELEVATION
1" = 1'-0"

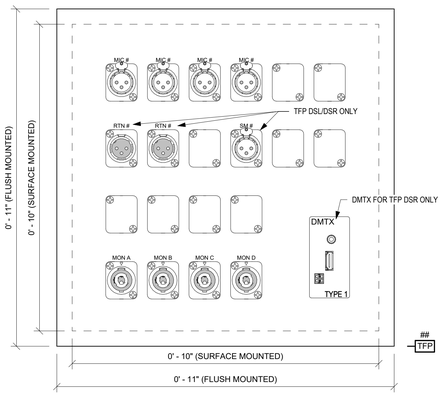


4 ER-SMP ELEVATION
1" = 1'-0"



3 IO PANEL DETAIL
6" = 1'-0"

2 AV PLATE DETAIL
6" = 1'-0"



1 TECHNICAL FACILITY PANEL DETAIL
6" = 1'-0"

NOTE: REFERENCE FUNCTIONAL DIAGRAMS FOR CONNECTOR LABELING.

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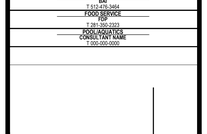

KEY PLAN
NORTH: PLAN TRUE

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No.	Description	Date

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CAFETERIA DETAILS

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0"
1"

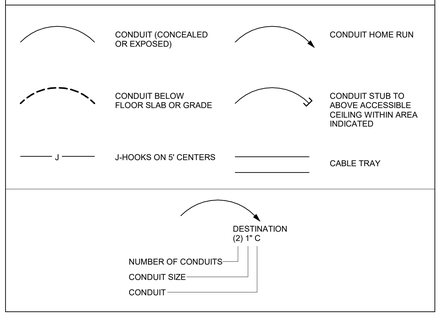
GENERAL ABBREVIATIONS

--	NOT APPLICABLE
@	AT
3DC	3D CONTROLLER
A/C	AIR CONDITIONING
ABV	ABOVE
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOH	BACK OF HOUSE
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
C	CONDUIT
CAT	CATEGORY CABLE
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CTRL	CONTROL
D	DEPTH, DEEP
DC	DIRECT CURRENT
DC	DOWNSTAGE CENTER
DEG	DEGREES
DEMO	DEMOLITION
DFP	DIRECTOR'S FLOOR POCKET
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DS	DOWNSTAGE
DSL	DOWNSTAGE LEFT
DSR	DOWNSTAGE RIGHT
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EQUIPMENT RACK
ESW	ETHERNET SWITCH
EXIST	EXISTING
FA	FIRE ALARM
FB	FLOOR BOX
FLEX	FLEXIBLE
FLR	FLOOR
FO	FINISHED OPENING
FOH	FRONT OF HOUSE
FPB	FIBER OPTIC PATCHBAY
FPM	FEET PER MINUTE
FT	FOOT, FEET
FV	FIELD VERIFY
GND	GROUND
GA	GAUGE
H	HEIGHT
HL	HOUSE LEFT
HMP	HOUSE MANAGER POSITION
HOR	HORIZONTAL
HP	HORSEPOWER
HR	HOUSE RIGHT
HZ	HERTZ
I/O	INPUT/OUTPUT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
ISO	ISOLATED
JB	JUNCTION BOX
JBD	JUNCTION BOX - DATA
JP	JUNCTION BOX - SYSTEM POWER
KPD	KEYPAD
KW	KILOWATT
L	LENGTH, LEFT
L/R	LEFT/RIGHT
LAN	LOCAL AREA NETWORK
LB	POUNDS
LF	LINEAR FEET
LTG	LIGHTING
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MIN	MINIMUM
MMFO	MULTIMODE FIBER OPTIC CABLE
MTD	MOUNTED
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NIC	NETWORK NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED OWNER INSTALLED
P	PRIMARY
P/O	PART OF
PC	PERSONAL COMPUTER
PDU	POWER DISTRIBUTION UNIT
PGM	PROGRAM
PH	PHASE
PNL	PANEL
PROC	PROCESSOR
PRH	PROJECT RECEPTACLE HEIGHT
PRX	PROXIMITY SENSOR
PS	POWER SUPPLY
PSF	POUNDS PER SQUARE FOOT
PSH	PROJECT SWITCH HEIGHT
PSI	POUNDS PER SQUARE INCH
PT	PASS THROUGH
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
R	RIGHT
RCP	REFLECTED CEILING PLAN
REF	REFERENCE, REFER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RM	ROOM
RO	ROUGH OPENING
RPM	REVOLUTIONS PER MINUTE
S	SURFACE, SECONDARY
SCS	STRUCTURED CABLING SYSTEM
SQFT	SQUARE FEET
SIM	SIMILAR
SL	STAGE LEFT
SMFO	SINGLE MODE FIBER OPTIC CABLE
SMP	STAGE MANAGER POSITION
SPEC	SPECIFICATION
SQ	SQUARE
SR	STAGE RIGHT
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SURF	SURFACE
SUSP	SUSPEND
TBD	TO BE DETERMINED
THRU	THROUGH
TYP	TYPICAL
UC	UPSTAGE CENTER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
US	UPSTAGE
USL	UPSTAGE LEFT
USR	UPSTAGE RIGHT
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPERE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WT	WEIGHT

THEATRE SYSTEM ABBREVIATIONS

--	NOT APPLICABLE
ACP	ARCHITECTURAL CONTROL PROCESSOR
CDR	CONTROL DISTRIBUTION RACK
DB	DIMMER BANK
DISC	DISCONNECT
DM	DIMMING SYSTEM MANUFACTURER
DMX	DIGITAL LIGHTING CONTROL UNIT
DR	DIMMER RACK
HL	HOUSELIGHT
JD	JUNCTION BOX - DIMMING SYSTEM
JR	JUNCTION BOX - RIGGING SYSTEM CONTROL
LPO	LIGHTING POWER OUTLET
LRA	LOCKED ROTOR AMPS
MCC	MOTOR CONTROL CENTER
RP	RELAY PANEL
SVR	COMPUTER SERVER
TL	THEATRICAL LIGHTING
TR	THEATRICAL RIGGING
WL	WORKLIGHT

PATHWAY DISTRIBUTION



ROUGH-IN BOX SCHEDULE

TYPE 1 RECESSED: 1-GANG BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 1-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 1-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 2 RECESSED: 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/ RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 2-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 2-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 3 RECESSED: 3-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 3-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 3-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 4 RECESSED: 4-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 4-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 4-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE 5 RECESSED: 5" SQUARE BOX. 2 1/2" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/RING EDGE TO BE FLUSH WITH FINISHED WALL.

TYPE 12 RECESSED: 4 11/16" SQUARE BOX. 2 1/8" DEEP WITH KNOCKOUTS. PROVIDE DEVICE EXTENSION AS REQUIRED TO ACCOMMODATE DEVICE COVER SIZE. DEVICE COVER/ RING EDGE TO BE FLUSH WITH FINISHED WALL.

MASONRY: 1-GANG BOX. 2 1/2" DEEP WITH KNOCKOUTS IN 4" CMU/BRICK/CONCRETE; 3 1/2" DEEP WITH KNOCKOUTS IN 6" OR 8" CMU/CONCRETE. COVER EDGE TO BE FLUSH WITH FINISHED WALL.

SURFACE MOUNTED: 1-GANG DIE CAST BOX. 2 5/8" DEEP WITH THREADED OUTLETS.

TYPE A JUNCTION BOX (HxWxD) WITH SCREW COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

TYPE B JUNCTION BOX (HxWxD) WITH HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS.

TYPE C JUNCTION BOX (HxWxD) WITH LOCKING HINGED COVER. PROVIDE NEMA TYPE 1 AT INDOOR LOCATIONS; PROVIDE NEMA TYPE 3R AT OUTDOOR LOCATIONS. PAINTED AT EXPOSED LOCATIONS

CONDUIT AND PATHWAY NOTES

1. COORDINATE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, CONDUIT, ETC. ACCORDING TO THE PROJECT GENERAL CONDITIONS.
2. PROVIDE A COMPLETE RACEWAY SYSTEM TO CONSIST OF METALLIC CONDUIT (EXCLUDING IN-GROUND PATHWAY), JUNCTION BOXES, DEVICE BACK BOXES, AND FITTINGS UNLESS NOTED OTHERWISE.
3. THE DRAWINGS INDICATE ONE ROUTING METHOD OF THE CABLING PATHWAY. CHANGES MAY BE MADE TO THE PATHWAY SYSTEM ROUTING TO ACCOMMODATE SITE CONDITIONS OR TO SIMPLIFY INSTALLATION PROVIDING THAT NOTED CONDUIT SIZE OR LARGER IS MAINTAINED AND DISTANCE LIMITATIONS LISTED BELOW ARE NOT EXCEEDED.
4. CONDUIT STUBS FROM DEVICES TO THE NEAREST CABLE TRAY, ACCESSIBLE CEILING, OR OTHER DESTINATIONS SHALL BE CONTINUOUS.
5. UNLESS NOTED OTHERWISE, CONDUIT IS 3/4 INCH TRADE SIZE.
6. SHOULD ROUGH-IN BOX DEVICE EXIST WITH NO CONDUIT INDICATED TO OR FROM, PROVIDE ¾ INCH TRADE SIZE CONDUIT FROM DEVICE TO ACCESSIBLE CEILING.
7. CONDUIT BODIES (LB'S) ARE NOT PERMITTED.
8. CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUITS SHALL BE TERMINATED WITH AN INSULATED BUSHING. PULL STRINGS WITH A MINIMUM PULL RATING OF 400 POUNDS SHALL BE PROVIDED.
9. FOR CONDUIT WITH AN INTERNAL DIAMETER GREATER THAN 2 INCHES, MAINTAIN A BEND RADIUS OF AT LEAST 10 TIMES THE INTERNAL CONDUIT DIAMETER.
10. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES. FLEX IS NOT PERMITTED UNLESS NOTED OTHERWISE.
11. NO SECTION OF CONDUIT SHALL EXCEED 100 FEET. RUNS IN EXCESS OF 100 FEET REQUIRE A PULL BOX / HANDHOLE / VAULT.
12. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR EQUIVALENT 180 DEGREES, BETWEEN PULL BOXES.
13. PULL BOX SHALL NOT BE USED IN LIEU OF A BEND. CONDUITS MUST RUN STRAIGHT THROUGH A PULL BOX WITH THE BEND LOCATED EITHER BEFORE OR AFTER THE PULL BOX.
14. PULL BOX LENGTH TO BE NO LESS THAN 8 TIMES THE DIAMETER OF THE LARGEST TERMINATING CONDUIT. PULL BOX WIDTH TO BE NO LESS ¼ THE LENGTH.
15. PROVIDE COVERS WITH LABELING FOR JUNCTION BOXES, BACK BOXES AND PULL BOXES WITHOUT FACEPLATES. LABELING MATCHES DEVICE NAME AS INDICATED ON DRAWINGS, FOR EXAMPLE "AV1", "ML".
16. ALL CONDUITS ENTERING OR EXITING EQUIPMENT RACKS TO BE ISOLATED WITH A NON-METALLIC SPACER OR FITTING.
17. PROVIDE CONDUIT TO CROSS INACCESSIBLE CEILINGS OR IN AREAS WITHOUT CEILINGS UNLESS NOTED OTHERWISE.
18. PROVIDE CONDUIT IN EXPOSED AREAS, MECHANICAL SPACES, FOOD SERVICES AREAS, AND ELEVATOR CONTROL ROOMS.
19. REGARDLESS OF PATHWAY TYPE, ALL CABLING SHALL BE SUPPORTED AT 4 FEET MAXIMUM INTERVALS. CABLES SHALL NOT BE LAID DIRECTLY ON THE CEILING TILE OR RAILS OR STRAPPED TO CONDUIT.
20. ROUTE CONDUIT WITH OTHER BUILDING SERVICES AND CONCEAL WHENEVER POSSIBLE. GROUP AND RUN PARALLEL ALONG A SINGLE BUILDING COLUMN LINE, HOLD TIGHT TO STRUCTURE AND PAINT AS DIRECTED BY THE ARCHITECT.
21. IF AV AND POWER CONDUITS MUST CROSS, CROSS AT RIGHT ANGLES.
22. FOR IN-SLAB OR UNDERGROUND CONDUIT ENTERING A BUILDING, TRANSITION BACK TO METALLIC CONDUIT WITHIN 3 FEET OF THE ENTRY POINT.
23. REFER TO PROJECT MANUAL FOR FIRE STOPPING REQUIREMENTS.
24. REFER TO ELECTRICAL DRAWINGS AND PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

DEVICE SYMBOL KEY - THEATRE LIGHTING SYSTEMS

SYMBOL LEGEND - THEATRE LIGHTING SYSTEMS

SIZES, DIMENSIONS AND NOTES DESCRIBE TYPICAL REQUIREMENTS. IF APPLICABLE, VARIATIONS AND/OR ADDITIONAL REQUIREMENTS WILL BE NOTED ON THE DRAWINGS.
UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE TO CENTER OF ROUGH-IN BOX.

TYPE	DEVICE	ROUGH-IN BOX (H"xW"xD")	DEVICE COVER SIZE	MOUNTING HEIGHT			DEVICE NOTES	CONDUIT NOTES
				WALL/COLUMN	CEILING/OVERHEAD	FLOOR		
CDP	CONTROL DISTRIBUTION PANEL	--	--	SEE NOTE 1	--	--	REF DETAIL	--
CR2	CONTROL RECEPTACLE STATION	TYPE 2	2-GANG	BUILDING OUTLET HEIGHT	--	CUSTOM; REF DETAIL	REF DETAIL	AS REQUIRED FOR NUMBER OF CABLES; REF PLANS AND DETAILS
CR3	CONTROL RECEPTACLE STATION	TYPE 3	3-GANG	BUILDING OUTLET HEIGHT	--	CUSTOM; REF DETAIL	REF DETAIL	AS REQUIRED FOR NUMBER OF CABLES; REF PLANS AND DETAILS
DMX	DMX RECEPTACLE STATION (IN OR OUT)	TYPE 1	1-GANG	BUILDING OUTLET HEIGHT	AS REQUIRED PER PLANS; REF DETAIL	CUSTOM; REF DETAIL	REF DETAIL	REF PLANS
GJB	GRIDIRON JUNCTION BOX	--	--	MOUNTED TO WALL AS NOTED	MOUNTED TO STRUCTURE AS NOTED	MOUNTED TO GRIDIRON AS NOTED	COORDINATE CABLE MANAGEMENT WITH 11 61 33 SCOPE OF WORK	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL
HL5	HOUSE LIGHT STATION WITH FIVE PUSH BUTTONS	TYPE 1	1-GANG	BUILDING SWITCH HEIGHT	--	--	REF DETAIL	REF PLANS
HLM	HOUSE LIGHT MASTER LCD STATION	TYPE 3	3-GANG	BUILDING SWITCH HEIGHT	--	--	REF DETAIL	REF PLANS
MBP	MOTORIZED BREAKER PANEL	--	--	SEE NOTE 1	--	--	--	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL
NET	THEATRICAL LIGHTING NETWORK RECEPTACLE	TYPE 1	1-GANG	BUILDING OUTLET HEIGHT	AS REQUIRED PER PLANS; REF DETAIL	CUSTOM; REF DETAIL	CAN BE RECESSED, SURFACE, OR PIPE MOUNT; REF DETAIL	REF PLANS
NN2	THEATRICAL LIGHTING NETWORK DMX NODE (TWO UNIVERSE)	TYPE 2	2-GANG	BUILDING OUTLET HEIGHT	AS REQUIRED PER PLANS; REF DETAIL	CUSTOM; REF DETAIL	REF DETAIL	REF PLANS
PB	MULTI-CIRCUIT PLUGGING BOX	--	--	--	--	--	PIPE MOUNT; REF DETAIL	REF DETAIL
R	MULTI-CIRCUIT PLUGGING RACEWAY	--	--	--	--	--	INTEGRAL TO STAGE ELECTRIC; COORDINATE WITH 11 61 33 SCOPE OF WORK	CABLE MANAGEMENT AS SPECIFIED
WB	MULTI-CIRCUIT WALL BOX	CUSTOM	CUSTOM	BUILDING OUTLET HEIGHT	--	--	REF DETAIL	AS REQUIRED FOR NUMBER OF CONDUCTORS; REF ELECTRICAL

LEGEND NOTES - THEATRE LIGHTING SYSTEMS

1 WALL-MOUNTED ENCLOSURE

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JSD
T 281-256-2323
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CONSULTANT NAME
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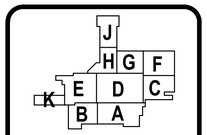

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

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Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

GENERAL NOTES AND LEGENDS

TL-000

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1ST FLOOR PLAN - AREA J

TL-101J

FOR BLUEBEAM LABELING/OCR:

0"

1"

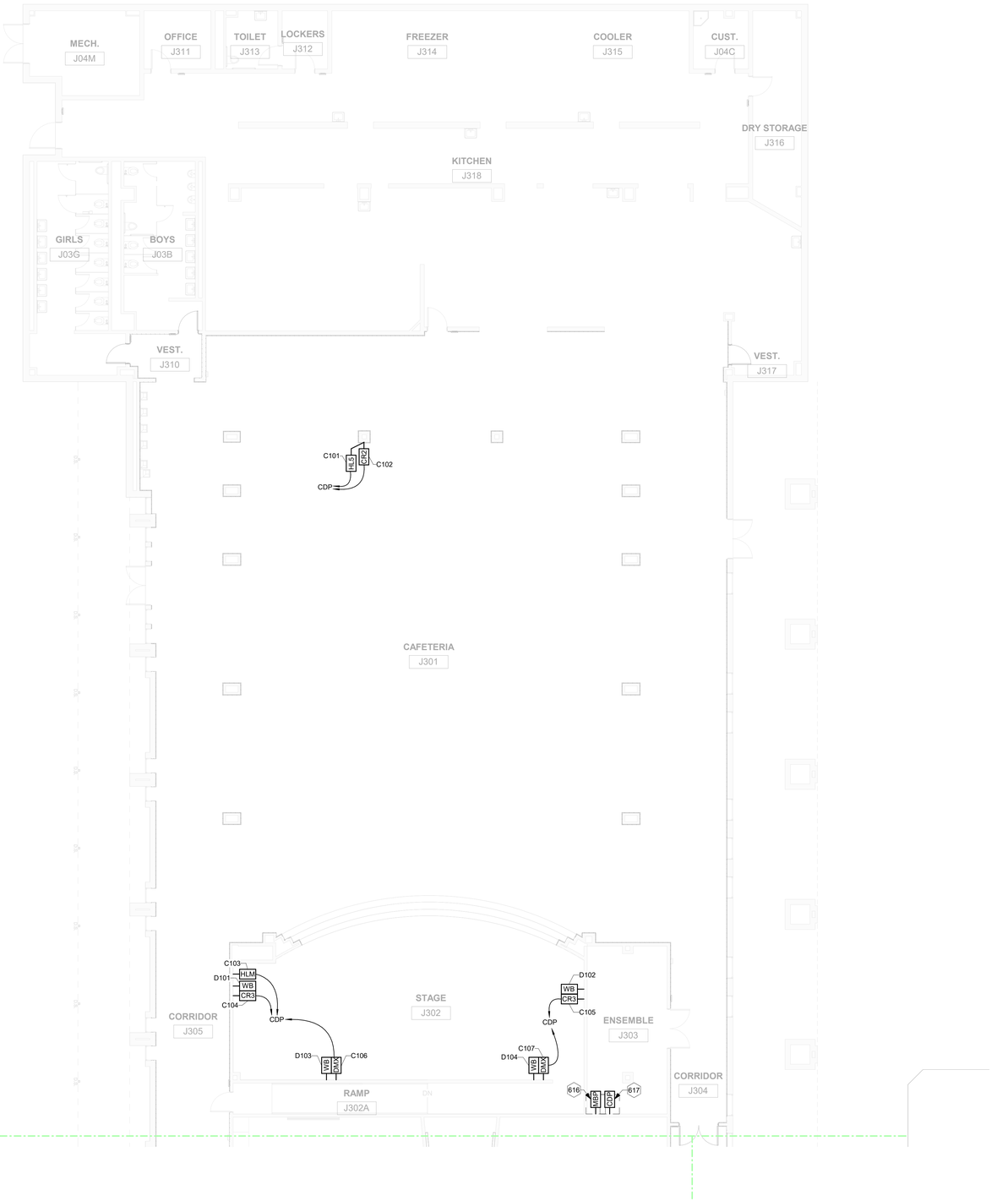
ISSUE FOR PROPOSAL

TL CONTROL DEVICE SCHEDULE

ID DESIGNATOR	TYPE ID	LOCATION	MOUNTING	TO	WIRING DESTINATION	NOTES
C101	HL5	FOH	PSH	CDP	ARCH	--
C102	CR2	FOH	PRH	CDP	ESW	(2) NETS
C103	HLM	DSL	PSH	CDP	ARCH	--
C104	CR3	SL	PRH	CDP	ESW ; GTWY	(2) NETS ; (1) DMX OUT
C105	CR3	SR	PRH	CDP	ESW ; GTWY	(2) NETS ; (1) DMX OUT
C106	DMX	USL	PRH	CDP	GTWY	--
C107	DMX	USR	PRH	CDP	GTWY	--
C201	DMX	1ST ELEC	PIPE	CDP	GTWY	--
C202	DMX	AUX ELEC	PIPE	CDP	GTWY	--
C203	DMX	2ND ELEC	PIPE	CDP	GTWY	--
C301	NN2	FOH ELEC	RACEWAY	C302	ESW	--
C302	NET	STRUCTURE ABOVE	GJB	CDP	ESW	TO C301 VIA CABLE MANAGEMENT

TL DISTRIBUTION DEVICE SCHEDULE

CIRCUIT LABELS	ID DESIGNATOR	TYPE ID	LOCATION	MBP DESTINATION	LOAD TYPE	NOTES
1-6	D301	R	FOH ELEC	1-6	PORTABLE	--
1-6	D302	GJB	STRUCTURE ABOVE	1-6	PORTABLE	TO D301 VIA CABLE MANAGEMENT
7	D201	PB	1ST ELEC	7	PORTABLE	--
8	D202	PB	1ST ELEC	8	PORTABLE	--
9	D203	PB	1ST ELEC	9	PORTABLE	--
10	D204	PB	1ST ELEC	10	PORTABLE	--
11	D205	PB	1ST ELEC	11	PORTABLE	--
12	D206	PB	1ST ELEC	12	PORTABLE	--
13	D207	PB	AUX ELEC	13	PORTABLE	--
14	D208	PB	2ND ELEC	14	PORTABLE	--
15	D209	PB	2ND ELEC	15	PORTABLE	--
16	D210	PB	2ND ELEC	16	PORTABLE	--
17	D211	PB	2ND ELEC	17	PORTABLE	--
18	D212	PB	2ND ELEC	18	PORTABLE	--
19	D213	PB	2ND ELEC	19	PORTABLE	--
20	D101	WB	SL	20	PORTABLE	--
21	D102	WB	SR	21	PORTABLE	--
22	D103	WB	USL	22	PORTABLE	--
23	D104	WB	USR	23	PORTABLE	--
--	D001	ARCH	CDP	24	PERMANENT	PROVIDE NON-MOTORIZED BREAKER



KEYNOTES	
616	MOTORIZED BREAKER PANEL (MBP-1): 24-CIRCUIT DMX-CONTROLLED PANELBOARD, REF ELECTRICAL AND TL RISER.
617	CONTROL DISTRIBUTION PANEL (CDP). REFER TO TL RISER.

01 TL_1ST LEVEL - FLOOR PLAN - AREA J
1/8" = 1'-0"

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CONSULTANT NAME
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CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

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KEY PLAN
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DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN - AREA J

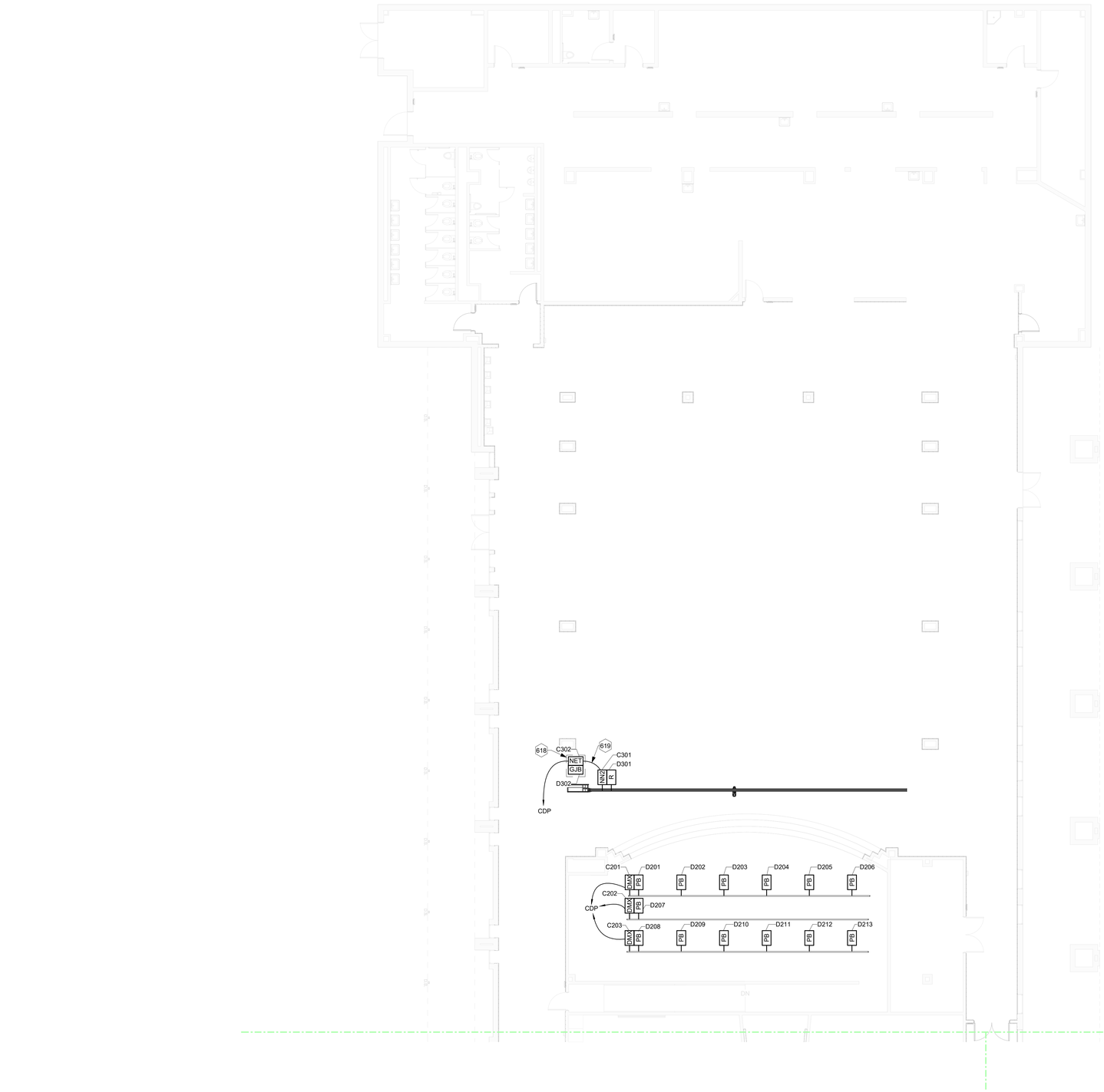
TL-101J

ISSUE FOR PROPOSAL

0"
1"

2ND FLOOR PLAN - AREA J
TL-201J
FOR BLUEBEAM LABELING/OCR:

KEYNOTES	
618	MOUNTED TO STRUCTURE ABOVE.
619	INTEGRATED VIA CABLE MANAGEMENT.



01 TL_2ND LEVEL - FLOOR PLAN - AREA J
1/8" = 1'-0"

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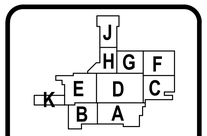

KEY PLAN
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DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

2ND FLOOR PLAN - AREA J

TL-201J

ISSUE FOR PROPOSAL

CONTROL DETAILS

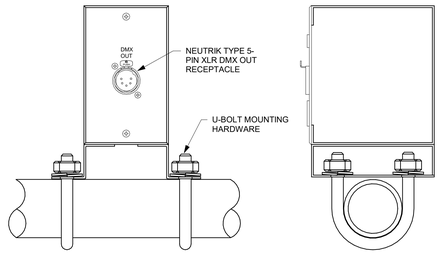
TL-601

FOR BLUEBEAM LABELING/OCR:

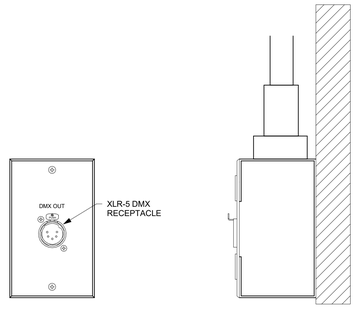
0"

1"

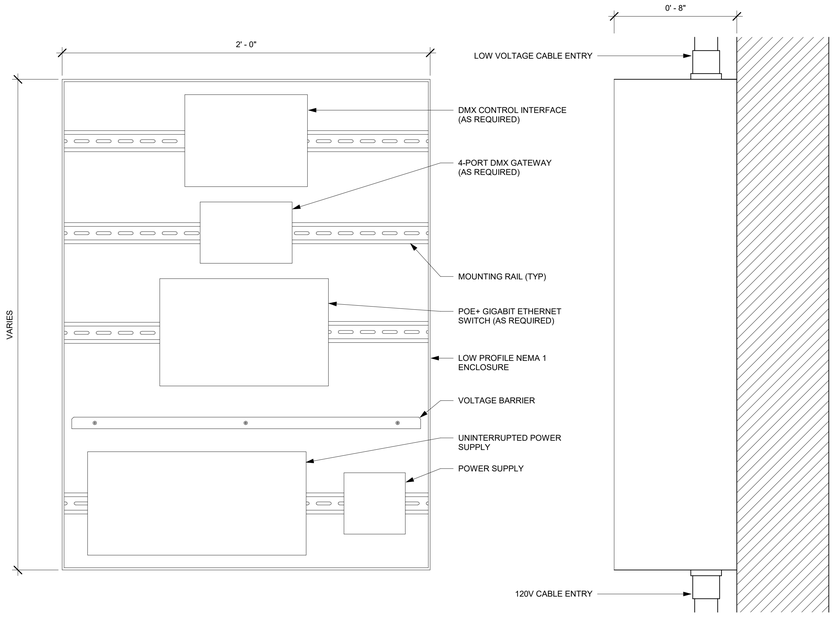
CONDUIT SERVICE FROM ABOVE ONLY. DO NOT RUN CONDUIT ALONG PIPE(S).



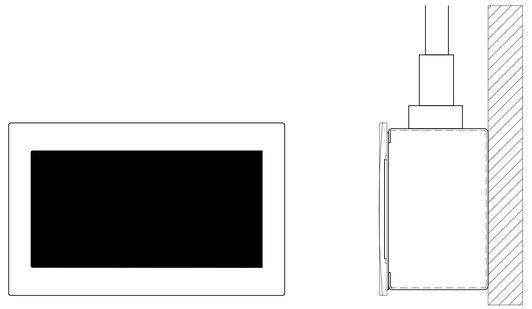
6 DMX (PIPE)
6" = 1'-0"



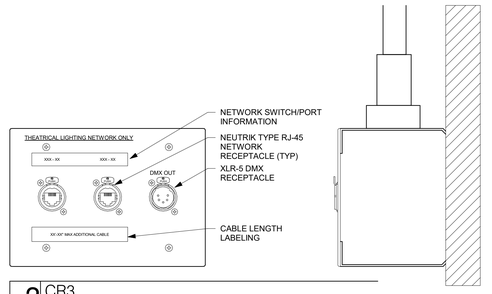
3 DMX (RECESSED)
6" = 1'-0"



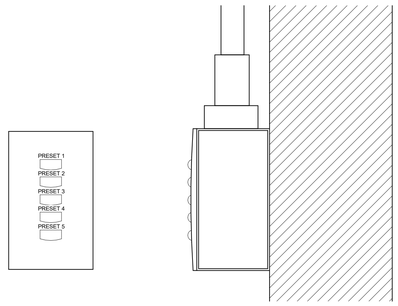
7 CONTROL DISTRIBUTION PANEL (CDP)
3" = 1'-0"



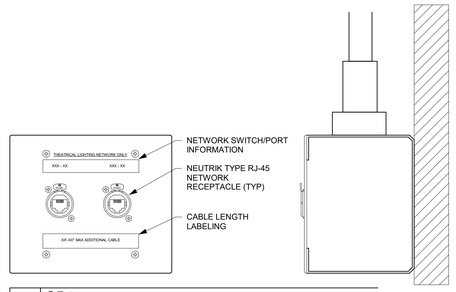
5 HLM
6" = 1'-0"



2 CR3
6" = 1'-0"



4 HL5
6" = 1'-0"



1 CR2
6" = 1'-0"

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CONSULTANT NAME
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KEY PLAN

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DATE 2/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

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CONTROL DETAILS

TL-601

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DISTRIBUTION DETAILS

TL-602

FOR BLUEBEAM LABELING:OOR:

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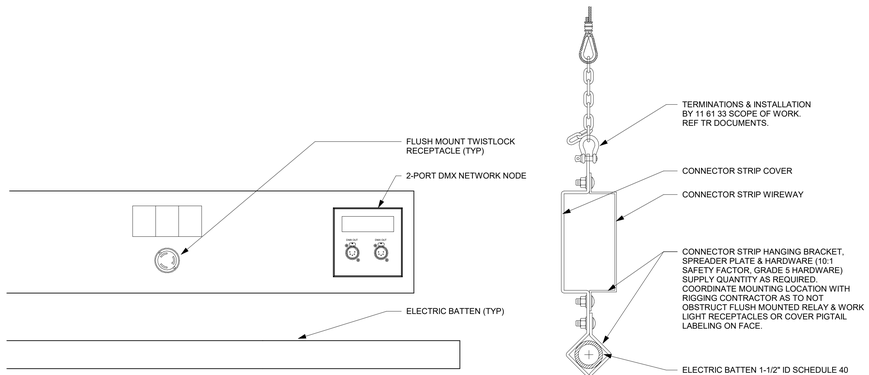
0"

1"

FOH ELECTRIC CIRCUITS: 1-6 (REPEATED x 3)

5 RACEWAY ELEVATION
1/2" = 1'-0"



4 RACEWAY DETAIL
3" = 1'-0"

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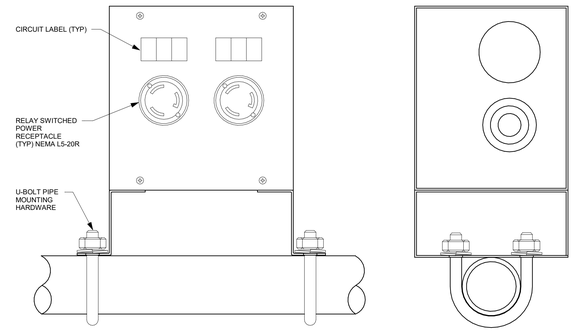
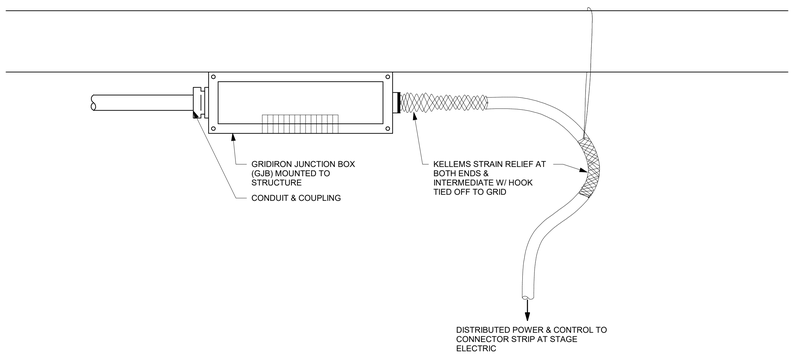
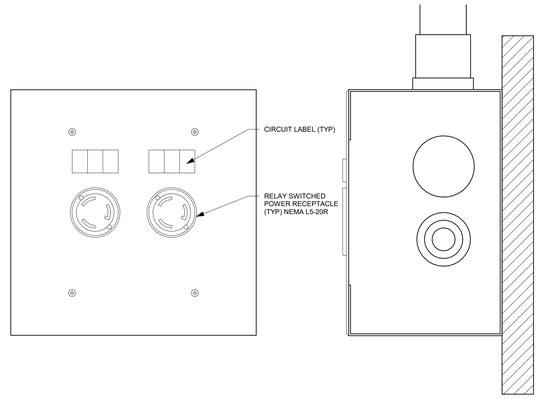


2 PB
6" = 1'-0"



3 GJB
3" = 1'-0"



1 WB
6" = 1'-0"

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POOL/AQUATICS
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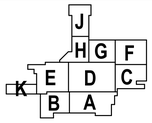
T 000-000-0000

Arnold Middle School

11111 TEL GE RD,
CYPRESS, TX 77429

ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN

NORTH: PLAN TRUE

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE
2/17/2025

PROJECT NUMBER
220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

DISTRIBUTION DETAILS

TL-602

THEATRICAL LIGHTING CONTROL RISER

TL-1601

FOR BLUEBEAM LABELING/OCR:

0"

1"

ISSUE FOR PROPOSAL

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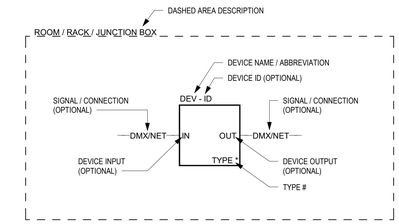
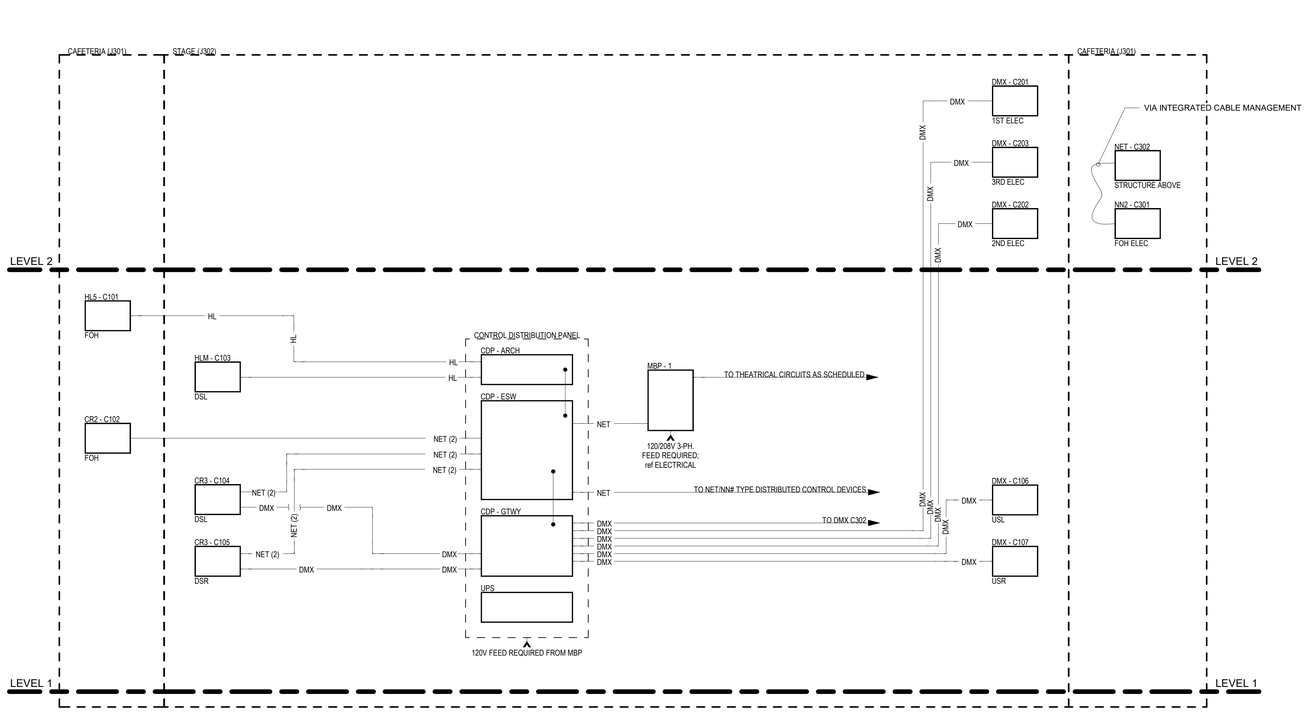
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE INSTALLATION SO THAT LOADS ARE PROPERLY LANDED INSIDE DIMMER RACK TO ACHIEVE PROPER FUNCTION OF THE ETHERNET LIGHING NETWORK.
2. PROVIDE UPS BACKUP FOR DMX DISTRIBUTION, ARCHITECTURAL LIGHTING CONTROL PROCESSOR AND LIGHTING CONTROL CONSOLES.
3. TERMINATE ALL FIVE PINS OF EACH DMX INPUT AND OUTPUT.
4. PROVIDE PROPER AMOUNTS OF CABLE SLACK AFTER TERMINATION FOR FUTURE UPGRADE OF LIGHTING SYSTEM.

DEVICE SIGNAL FLOW DETAIL





01 CAFETORIUM THEATRICAL LIGHTING RISER DIAGRAM
N.T.S.

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THEATRICAL LIGHTING CONTROL RISER

TL-1601

0"

1"

GENERAL NOTES AND LEGENDS

TR-000

FOR BLUEBEAM LABELING:

ISSUE FOR PROPOSAL

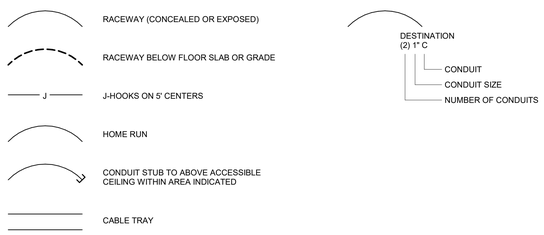
GENERAL ABBREVIATIONS

--	NOT APPLICABLE	L	LENGTH, LEFT
		L/R	LEFT/RIGHT
@	AT	LAN	LOCAL AREA NETWORK
		LB	POUNDS
3DC	3D CONTROLLER	LF	LINEAR FEET
		LTG	LIGHTING
A/C	AIR CONDITIONING		
ABV	ABOVE	MAX	MAXIMUM
AC	ALTERNATING CURRENT	MDF	MAIN DISTRIBUTION FRAME
ADA	AMERICANS WITH DISABILITIES ACT	MECH	MECHANICAL
ADJ	ADJUSTABLE	MIN	MINIMUM
AFC	ABOVE FINISHED CEILING	MMFO	MULTIMODE FIBER OPTIC CABLE
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AFG	ABOVE FINISHED GRADE		
AHJ	AUTHORITY HAVING JURISDICTION	NA	NOT APPLICABLE
ALT	ALTERNATE	NC	NORMALLY CLOSED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	NEC	NATIONAL ELECTRICAL CODE
ARCH	ARCHITECT, ARCHITECTURAL	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS		NETWORK
AUX	AUXILIARY	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GAUGE	NO	NORMALLY OPEN
		NTS	NOT TO SCALE
BFC	BELOW FINISHED CEILING		
BFF	BELOW FINISHED FLOOR	OC	ON CENTER
BLDG	BUILDING	OD	OUTSIDE DIAMETER
BOH	BACK OF HOUSE	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BOP	BOTTOM OF PIPE	OFE	OWNER FURNISHED EQUIPMENT
BOS	BOTTOM OF STRUCTURE	OFOI	OWNER FURNISHED OWNER INSTALLED
C	CONDUIT	P	PRIMARY
CAT	CATEGORY CABLE	P/O	PART OF
CKT	CIRCUIT	PC	PERSONAL COMPUTER
CL	CENTER LINE	PDU	POWER DISTRIBUTION UNIT
CLG	CEILING	PGM	PROGRAM
CMU	CONCRETE MASONRY UNIT	PH	PHASE
COL	COLUMN	PNL	PANEL
CTRL	CONTROL	PROC	PROCESSOR
		PRH	PROJECT RECEPTACLE HEIGHT
D	DEPTH, DEEP	PRX	PROXIMITY SENSOR
DC	DIRECT CURRENT	PS	POWER SUPPLY
DC	DOWNSTAGE CENTER	PSF	POUNDS PER SQUARE FOOT
DEG	DEGREES	PSH	PROJECT SWITCH HEIGHT
DEMO	DEMOLITION	PSI	POUNDS PER SQUARE INCH
DFP	DIRECTOR'S FLOOR POCKET	PT	PASS THROUGH
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DIM	DIMENSION	PWR	POWER
DIV	DIVISION		
DS	DOWNSTAGE	QTY	QUANTITY
DSL	DOWNSTAGE LEFT		
DSR	DOWNSTAGE RIGHT	R	RIGHT
DWG	DRAWING	RCP	REFLECTED CEILING PLAN
		REF	REFERENCE, REFER
EA	EACH	REINF	REINFORCING
EC	ELECTRICAL CONTRACTOR	REQD	REQUIRED
EL	ELEVATION	REV	REVISION, REVISE
ELEC	ELECTRICAL	RM	ROOM
ENCL	ENCLOSURE	RO	ROUGH OPENING
EQ	EQUAL	RPM	REVOLUTIONS PER MINUTE
EQUIP	EQUIPMENT		
ER	EQUIPMENT RACK	S	SURFACE, SECONDARY
ESW	ETHERNET SWITCH	SCS	STRUCTURED CABLING SYSTEM
EXIST	EXISTING	SQFT	SQUARE FEET
		SIM	SIMILAR
FA	FIRE ALARM	SL	STAGE LEFT
FB	FLOOR BOX	SMFO	SINGLE MODE FIBER OPTIC CABLE
FLEX	FLEXIBLE	SMP	STAGE MANAGER POSITION
FLR	FLOOR	SPEC	SPECIFICATION
FO	FINISHED OPENING	SQ	SQUARE
FOH	FRONT OF HOUSE	SR	STAGE RIGHT
FPB	FIBER OPTIC PATCHBAY	STD	STANDARD
FPM	FEET PER MINUTE	STP	SHIELDED TWISTED PAIR
FT	FOOT, FEET	SURF	SURFACE
FV	FIELD VERIFY	SUSP	SUSPEND
GND	GROUND	TBD	TO BE DETERMINED
GA	GAUGE	THRU	THROUGH
		TYP	TYPICAL
H	HEIGHT		
HL	HOUSE LEFT	UC	UPSTAGE CENTER
HMP	HOUSE MANAGER POSITION	UL	UNDERWRITERS LABORATORIES, INC.
HOR	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HP	HORSEPOWER	UPS	UNINTERRUPTIBLE POWER SUPPLY
HR	HOUSE RIGHT	US	UPSTAGE
HZ	HERTZ	USL	UPSTAGE LEFT
		USR	UPSTAGE RIGHT
I/O	INPUT/OUTPUT	USB	UNIVERSAL SERIAL BUS
ID	INSIDE DIAMETER	UTP	UNSHIELDED TWISTED PAIR
IDF	INTERMEDIATE DISTRIBUTION FRAME		
IG	ISOLATED GROUND	V	VOLT
ISO	ISOLATED	VA	VOLT-AMPERE
		VERT	VERTICAL
JB	JUNCTION BOX	VIF	VERIFY IN FIELD
JBD	JUNCTION BOX - DATA		
JP	JUNCTION BOX - SYSTEM POWER	W/	WITH
		W/O	WITHOUT
KPD	KEYPAD	WP	WEATHERPROOF
KW	KILOWATT	WT	WEIGHT

THEATRE SYSTEM ABBREVIATIONS

--	NOT APPLICABLE	LPO	LIGHTING POWER OUTLET
		LRA	LOCKED ROTOR AMPS
ACP	ARCHITECTURAL CONTROL PROCESSOR		
		MCC	MOTOR CONTROL CENTER
CDR	CONTROL DISTRIBUTION RACK		
		RP	RELAY PANEL
DB	DIMMER BANK		
DISC	DISCONNECT	SVR	COMPUTER SERVER
DM	DIMMING SYSTEM MANUFACTURER		
DMX	DIGITAL LIGHTING CONTROL UNIT	TL	THEATRICAL LIGHTING
DR	DIMMER RACK	TR	THEATRICAL RIGGING
HL	HOUSELIGHT	WL	WORKLIGHT
JD	JUNCTION BOX - DIMMING SYSTEM		
JR	JUNCTION BOX - RIGGING SYSTEM CONTROL		

PATHWAY DISTRIBUTION



RIGGING NOTES

GENERAL INSTALLATION PRACTICE

THEATRE STAGES, AUDIENCE CHAMBERS, STUDIOS, AND PERFORMANCE PLATFORMS ARE CONSDIERED OVERHEAD LIFTING AND RIGGING APPLICATIONS; ONLY GRADED HARDWARE AND FASTENERS SHALL BE PERMITTED WITH APPROVED ASSEMBLIES IN THE LOAD PATH FOR ENTERTAINMENT RIGGING APPLICATIONS; HARDWARE SHALL BE OF TRACABLE US MANUFACTURE.

EFFICIENCY RATING OF THE WIRE ROPE ATTACHMENTS AND TERMINATIONS SHALL ACHIEVE MAXIUM RATING, AT 100 PERCENT. THE FOLLOWING SHALL NOT BE USED: LESSER METHODS USING GENERIC OR MALLEABLE WIRE ROPE CABLE CLIPS; ALUMINUM SWAGE FITTINGS. ATTACHMENTS AND TERMINATIONS WHERE SWAGE FITTINGS ARE USED SHALL BE INSTALLED TO MANUFACTURER SPECIFICATOINS AND INDIVIDUALLY TESTED VIA GAUGE APPROPRIATE TO THE SWAGE METHOD USED.

IN ADDITION ALL TOOLS FOR CRIMPING NICOPRESS-TYPE FITTINGS MUST BE ADJUSTABLE, AND RECENTLY ALIGNED AND CALIBRATED. ALL USERS OF THE TOOL MUST BE TRAINED IN THE FOLLOWING:

A TOOL CALIBRATION AND INDIVIDUAL CRIMP PROVING VIA GAUGE
B PROPER CRIMPING PRACTICES AND IDENTIFICATION OF INCORRECT METHODS
C METHODS TO ACHIEVE 100 PER CENT EFFICIENCY OF ATTACHMENT
D DOCUMENTED MEASUREMENT AND INSPECTION OF FINISHED WORK

GENERAL RIGGING STANDARDS

THE FOLLOWING GENERAL RIGGING STANDARDS ARE MINIMUM DESIGN STANDARDS AND REQUIREMENTS UNLESS MODIFIED BY OTHER SECTIONS IN THE DRAWINGS OR SPECIFICATIONS. ALL CODES BY GOVERNING BODIES TAKE PRECEDENCE OVER DESIGN FACTORS REFLECTED IN THESE DRAWINGS AND SPECIFICATIONS:

1. ALL MATERIALS USED IN THIS PROJECT WILL BE NEW AND UNUSED. REFURBISHED OR USED EQUIPMENT IS PROHIBITED.

2. ALL INCIDENTAL RIGGING HARDWARE INCLUDING TURNBUCKLES, CLIPS, TRACKS, CHAINS, ETC., WILL BE FURNISHED PLATED OR PAINTED. WIRE ROPE WILL BE GALVANIZED. FASTENERS, CHAIN, AND OTHER MISCELLANEOUS HARDWARE WILL BE EITHER CADMIUM OR ZINC PLATED. FORGED SHACKLES OR OTHER ITEMS, HAVING FACTORY PAINTED RED PINS, OR MATCHING INDIVIDUALLY NUMBERED PARTS SHALL NOT BE ALTERED, THEREBY REDUCING THEIR TRACEABILITY VIA MANUFACTURERS LOGS.

3. PIPE BATTENS WILL BE CONSTRUCTED OF NEW ASTM A53/A 1-1/2" NOMINAL I.D. SCHEDULE 40 PLAIN END STEEL PIPE. BATTENS EXCEEDING ONE STANDARD PIPE LENGTH WILL BE JOINED USING AN INTERNAL SPLICING SLEEVE. THREADED COUPLERS ARE NOT PERMITTED. ALL BATTENS WILL BE FINISHED IN A CORROSION RESISTANT BLACK PAINT.

4. PIPE BATTEN SPLICE SLEEVES WILL BE A MINIMUM OF 24" IN LENGTH WITH A MINIMUM OF 12" EXTENDING INTO EACH PIPE BATTEN AND WILL HAVE THE SAME OVERALL CAPACITY, DEFLECTION, AND STRENGTH AS THE PIPE BATTENS BEING JOINED. SLEEVES WILL BE MACHINED TO A DIAMETER, WHICH WILL CREATE A SNUG FIT WITHIN THE PIPE BATTENS. SLEEVES WILL MAINTAIN, AS A MINIMUM, THE SAME WALL THICKNESS AS THE PIPE BATTENS BEING JOINED. SPLICING SLEEVES WILL BE ATTACHED TO THE PIPE BATTEN IN AT LEAST TWO LOCATIONS AT RIGHT ANGLES ON EACH SIDE OF JOINT WITH THE USE OF PINS OR BOLTS AND WELDED. DEBURR ALL EXPOSED SURFACES. EACH END OF THE PIPE BATTEN WILL BE CAPPED WITH, SOFT RUBBER PROTECTIVE COVERS.

5. PIPE BATTENS WILL BE EQUIPPED WITH ONLY GRADE 5 OR GREATER HARDWARE WITH SELF-LOCKING FASTENERS.

6. ALL LIFT LINES WILL BE CONTINUOUS LENGTHS, FREE OF SPLICES. WIRE ROPE SHALL HAVE THIMBLES IN ALL EYES. MINIMUM OF ¼" 7X19 WIRE ROPE SHALL BE USED AS LIFTING LINES UNLESS SPECIFIED OTHERWISE. WHERE THE LIFTED LOAD REQUIRES LARGER DIAMETER WIRE ROPE IN ORDER TO MAINTAIN THE SAFETY FACTOR, THE LARGER DIAMETER WIRE ROPE SHALL BE PROVIDED.

7. ALL SWAGING WILL BE PERFORMED AND WIRE ROPE CLIPS INSTALLED IN ACCORDANCE WITH MANUFACTURERS STANDARDS.

8. FLEET ANGLE OF ALL WIRE ROPE TO SHEAVE(S), IDLER(S), AND OR HEAD-BLOCK(S) SHALL NOT EXCEED (1-1/2) ONE AND ONE HALF DEGREES OFF CENTER,

9. TRIM CHAINS WILL BE CONSTRUCTED OF SPECIALITY THEATRICAL ALLOY OR NACM GRADE 80, 1/4" OR LARGER, SUFFICIENTLY LONG ENOUGH TO WRAP ONE AND ONE-HALF TIMES AROUND THE PIPE BATTEN AND ANY LINK ALONG THE RETURN SIDE OF THE CHAIN FOR ADJUSTMENT. CHAIN SHALL BE RATED BY ITS MANUFACTURER FOR THE INTENDED USE.

10. A DESIGN FACTOR OF (8) EIGHT TO (1) ONE SHALL BE OBSERVED FOR ALL ITEMS SUSPENDED ABOVE THE HEADS OF PERFORMERS, THE PUBLIC OR EMPLOYEES IN AND AROUND THE PERFORMANCE SPACE.

11. THEATRE RIGGING CONTRACTOR SHALL PROVIDE TRAINING OF THE OWNER, OWNER'S REPRESENTATIVES, EMPLOYEES, OR OTHERS DESIGNATED BY THE OWNER. TRAINING CAN ONLY BE CONSIDERED COMPLETE WHEN SIGNED, AND DATED DOCUMENTATION OF THE TRAINING SESSSION, INSTRUCTOR QUALIFICATION, AND RETRACEABLE PAPERWORK PATH IS ON FILE BY CONTRACTOR AND FACILITY EMPLOYER. DATED, SIGNED, AND REGULARLY SCHEDULED TOOL ALIGNMENT AND REPLACEMENT SCHEDULE MUST ALSO BE INCLUDED IN THE DOCUMENTATION.

GENERAL CONDITIONS

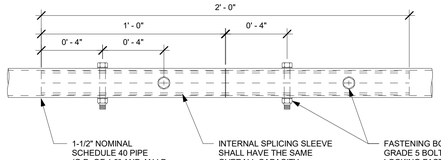
FOLLOW ALL CURRENT OSHA, STATE, LOCAL CODES, AND PRACTICES INCLUDING THOSE ESTABLISHED BY PLASA/ESTA AND OTHER APPLICABLE ORGANIZATIONS. THESE STANDARDS REFLECT COMMON INDUSTRY PRACTICES. WHILE VALID EXCEPTIONS MAY ARISE, FOLLOW THESE PRACTICES, EXCEPT AS NOTED OR SPECIFIED.

WJHW PROVIDES DESIGN CONCEPT DRAWINGS ONLY AND WHILE THESE SHEETS MAY SHOW STEEL IN PARTICULAR SHAPES AND SIZES, ONLY THE PROJECT ENGINEER IF RECORD SHALL SIZE SPECIFIC STEEL ELEMENTS. ALL STEEL SHOWN IS FOR REFERENCE ONLY AND IS INTENDED TO CONVEY THE DESIGN AND LAYOUT OF MEMBERS SUPPORTING EQUIPMENT SPECIFIED.

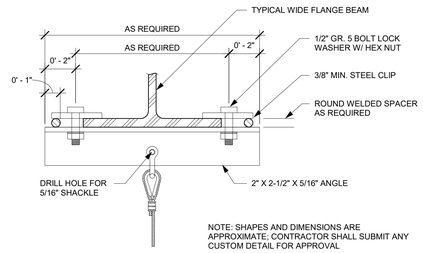
CONDUIT AND PATHWAY NOTES

1. COORDINATE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, CONDUIT, ETC. ACCORDING TO THE PROJECT GENERAL CONDITIONS.
2. PROVIDE A COMPLETE RACEWAY SYSTEM TO CONSIST OF METALLIC CONDUIT (EXCLUDING IN-GROUND PATHWAY), JUNCTION BOXES, DEVICE BACK BOXES, AND FITTINGS UNLESS NOTED OTHERWISE.
3. THE DRAWINGS INDICATE ONE ROUTING METHOD OF THE CABLING PATHWAY. CHANGES MAY BE MADE TO THE PATHWAY SYSTEM ROUTING TO ACCOMMODATE SITE CONDITIONS OR TO SIMPLIFY INSTALLATION PROVIDING THAT NOTED CONDUIT SIZE OR LARGER IS MAINTAINED AND DISTANCE LIMITATIONS LISTED BELOW ARE NOT EXCEEDED.
4. CONDUIT STUBS FROM DEVICES TO THE NEAREST CABLE TRAY, ACCESSIBLE CEILING, OR OTHER DESTINATIONS SHALL BE CONTINUOUS.
5. UNLESS NOTED OTHERWISE, CONDUIT IS 3/4 INCH TRADE SIZE.
6. SHOULD ROUGH-IN BOX DEVICE EXIST WITH NO CONDUIT INDICATED TO OR FROM, PROVIDE ¾ INCH TRADE SIZE CONDUIT FROM DEVICE TO ACCESSIBLE CEILING.
7. CONDUIT BODIES (LB'S) ARE NOT PERMITTED.
8. CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUITS SHALL BE TERMINATED WITH AN INSULATED BUSHING. PULL STRINGS WITH A MINIMUM PULL RATING OF 400 POUNDS SHALL BE PROVIDED.
9. FOR CONDUIT WITH AN INTERNAL DIAMETER GREATER THAN 2 INCHES, MAINTAIN A BEND RADIUS OF AT LEAST 10 TIMES THE INTERNAL CONDUIT DIAMETER.
10. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES. FLEX IS NOT PERMITTED UNLESS NOTED OTHERWISE.
11. NO SECTION OF CONDUIT SHALL EXCEED 100 FEET. RUNS IN EXCESS OF 100 FEET REQUIRE A PULL BOX / HANDHOLE / VAULT.
12. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR EQUIVALENT 180 DEGREES, BETWEEN PULL BOXES.
13. PULL BOX SHALL NOT BE USED IN LIEU OF A BEND. CONDUITS MUST RUN STRAIGHT THROUGH A PULL BOX WITH THE BEND LOCATED EITHER BEFORE OR AFTER THE PULL BOX.
14. PULL BOX LENGTH TO BE NO LESS THAN 8 TIMES THE DIAMETER OF THE LARGEST TERMINATING CONDUIT. PULL BOX WIDTH TO BE NO LESS ¼ THE LENGTH.
15. PROVIDE COVERS WITH LABELING FOR JUNCTION BOXES, BACK BOXES AND PULL BOXES WITHOUT FACEPLATES. LABELING MATCHES DEVICE NAME AS INDICATED ON DRAWINGS, FOR EXAMPLE "AV1", "ML".
16. ALL CONDUITS ENTERING OR EXITING EQUIPMENT RACKS TO BE ISOLATED WITH A NON-METALLIC SPACER OR FITTING.
17. PROVIDE CONDUIT TO CROSS INACCESSIBLE CEILINGS OR IN AREAS WITHOUT CEILINGS UNLESS NOTED OTHERWISE.
18. PROVIDE CONDUIT IN EXPOSED AREAS, MECHANICAL SPACES, FOOD SERVICES AREAS, AND ELEVATOR CONTROL ROOMS.
19. REGARDLESS OF PATHWAY TYPE, ALL CABLING SHALL BE SUPPORTED AT 4 FEET MAXIMUM INTERVALS. CABLES SHALL NOT BE LAID DIRECTLY ON THE CEILING TILE OR RAILS OR STRAPPED TO CONDUIT.
20. ROUTE CONDUIT WITH OTHER BUILDING SERVICES AND CONCEAL WHENEVER POSSIBLE. GROUP AND RUN PARALLEL ALONG A SINGLE BUILDING COLUMN LINE, HOLD TIGHT TO STRUCTURE AND PAINT AS DIRECTED BY THE ARCHITECT.
21. IF AV AND POWER CONDUITS MUST CROSS, CROSS AT RIGHT ANGLES.
22. FOR IN-SLAB OR UNDERGROUND CONDUIT ENTERING A BUILDING, TRANSITION BACK TO METALLIC CONDUIT WITHIN 3 FEET OF THE ENTRY POINT.
23. REFER TO PROJECT MANUAL FOR FIRE STOPPING REQUIREMENTS.
24. REFER TO ELECTRICAL DRAWINGS AND PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

PIPE SPLICE METHOD - BATTENS

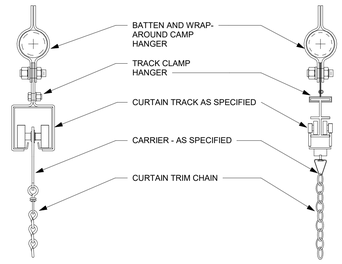


BEAM CLAMP

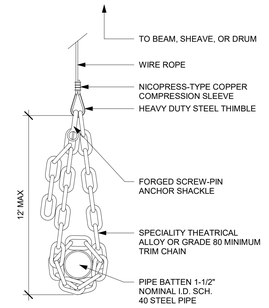


NOTE: SHAPES AND DIMENSIONS ARE APPROXIMATE; CONTRACTOR SHALL SUBMIT ANY CUSTOM DETAIL FOR APPROVAL

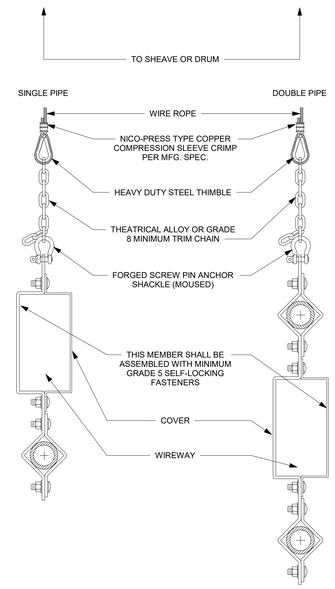
TRACK HANGING METHOD - BATTENS



PIPE BATTEN HANGING - LINESET



STAGE ELECTRIC HANGING DETAIL



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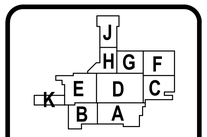

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GENERAL NOTES AND LEGENDS

TR-000

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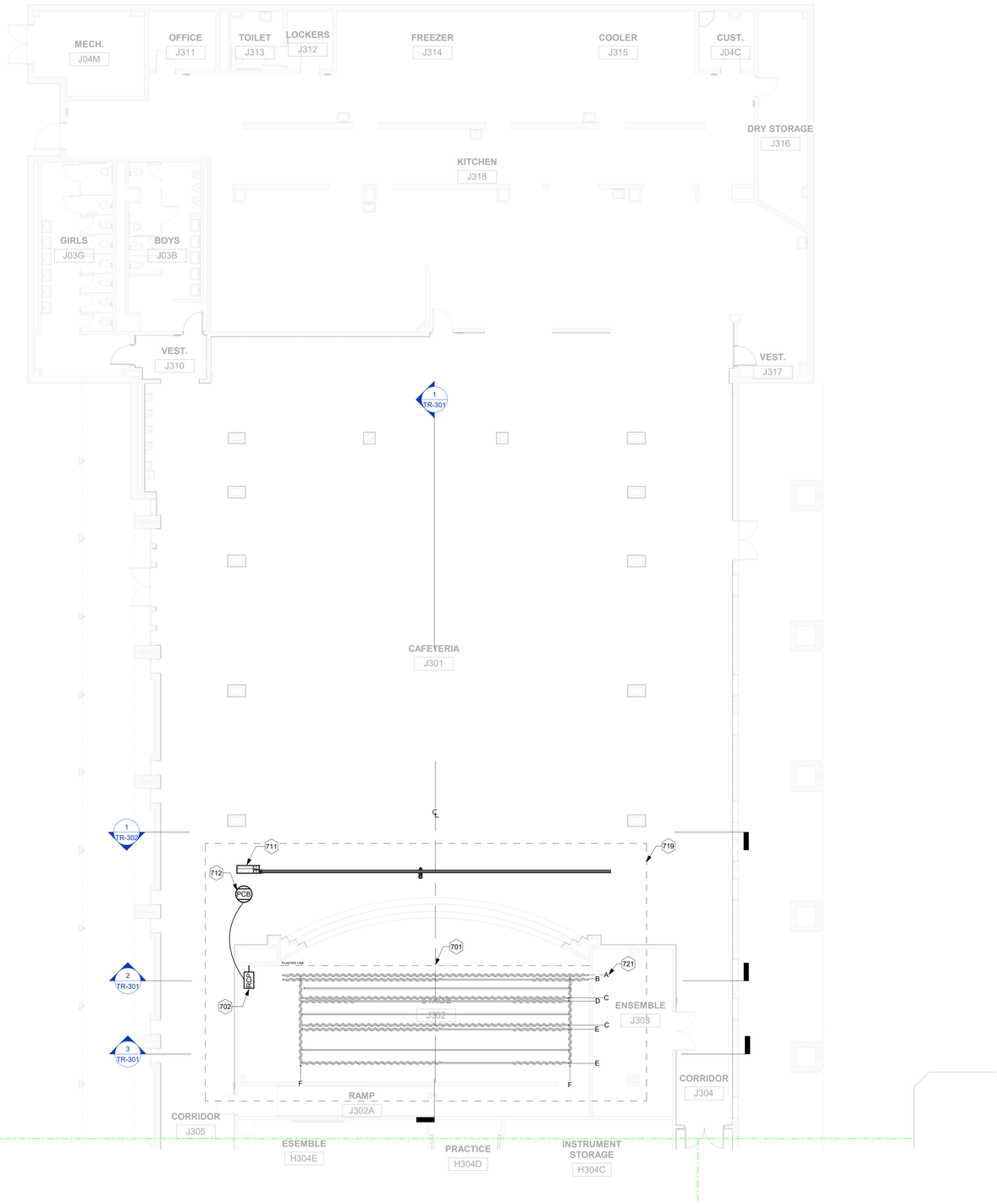
0"
1"

1ST FLOOR PLAN - AREA J
TR-101J
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYNOTES	
701	DATUM ORIGIN: THE DATUM FOR THEATRICAL RIGGING IS DEFINED AS: (1) THE STAGE CENTER-LINE. (2) THE REAR/ BACKSTAGE FINISH WALL OF THE PROSCENIUM ARCH [I.E. PLASTER-LINE]. (3) THE FINISH ELEVATION OF THE STAGE FLOOR
702	RCP: RIGGING CONTROL PANEL
711	HOIST MOTOR. 3 HP MAXIMUM, TYP.
712	PCB: POWER AND CONTROL BOX; MOUNT AT STRUCTURE ABOVE CEILING, ADJACENT TO MOTOR. ROUTE POWER FEED AND CONTROL WIRE FOR HOIST INTO PCB.
719	FIELD VERIFY STRUCTURAL CONDITIONS. PROVIDE SUPPLEMENTAL STRUT AS REQUIRED.
721	DRAPERY ID, TYP.



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KIRKSEY ENGINEERS
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MEP/T
LEAP
T 713-840-3300
ACOUSTIC
ARUP
T 512-476-3654
FOOD SERVICE
SWA
T 281-256-2223
POOL/AQUATICS CONSULTANT NAME
T 000-000-0000

Arnold Middle School
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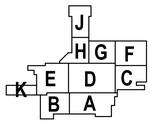
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR PLAN - AREA J

TR-101J

01 TR_1ST LEVEL - FLOOR PLAN - AREA J
1/8"= 1'-0"

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SECTIONS

TR-301

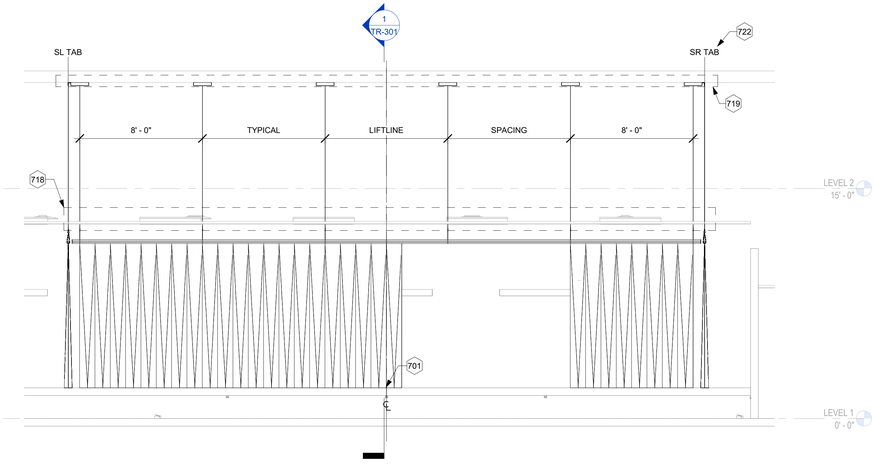
FOR BLUEBEAM LABELING:

0"

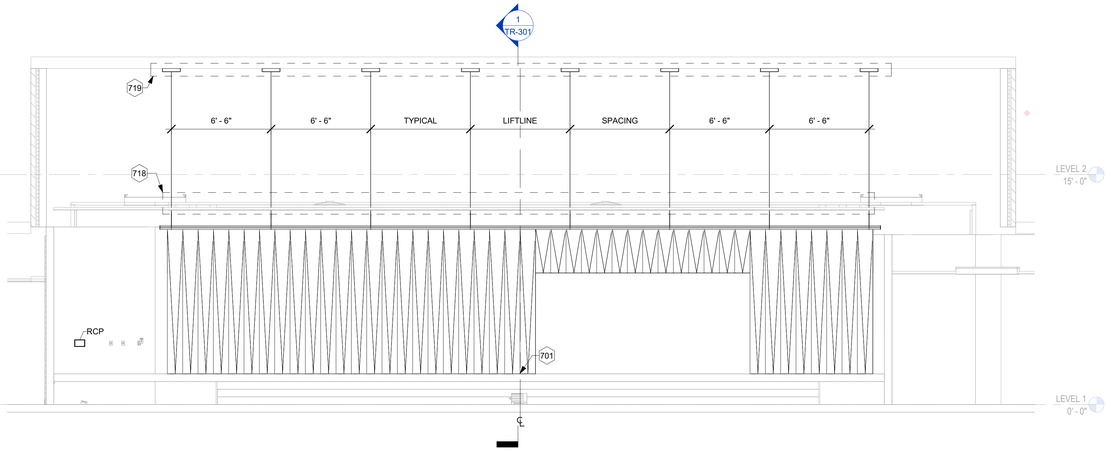
1"

DRAPERY SCHEDULE											
Drapery ID	Description	Location	Quantity	Size	Fabric Type	Color	Weight	Fullness	Side Hem	Bottom	Comments
A	VALANCE	STAGE	1	3'-0"H x 46'-0"W	IFR VELOUR	per ARCHITECT	25oz	50%	4" at VERTICAL EDGES	CHAIN	TIED DIRECTLY TO PIPE
B	MAIN DRAPE	STAGE	2 PANELS	9'-6"H x 24'-0"W	IFR VELOUR	per ARCHITECT	25oz	50%	FABRIC HALF-WIDTH AT VERTICAL EDGES	CHAIN	HANG FROM BI-PARTING TRAVELER TRACK HARDWARE
C	BORDER	STAGE	1	2'-6"H x 40'-0"W	IFR VELOUR	BLACK	21oz	50%	4" at VERTICAL EDGES	CHAIN	TIED DIRECTLY TO PIPE
D	LEGS	STAGE	2 PANELS	9'-6"H x 8'-0"W	IFR VELOUR	BLACK	21oz	50%	12" at VERTICAL EDGES	CHAIN	HANG FROM WALK-ALONG TRACK HARDWARE
E	TRAVELER	STAGE	4 PANELS	9'-6"H x 21'-0"W	IFR VELOUR	BLACK	21oz	50%	FABRIC HALF-WIDTH AT VERTICAL EDGES	CHAIN	HANG FROM BI-PARTING TRAVELER TRACK HARDWARE
F	TAB MASKING	STAGE	4 PANELS	9'-6"H x 7'-0"W	IFR VELOUR	BLACK	21oz	50%	12" at VERTICAL EDGES	CHAIN	HANG FROM WALK-ALONG TRACK HARDWARE

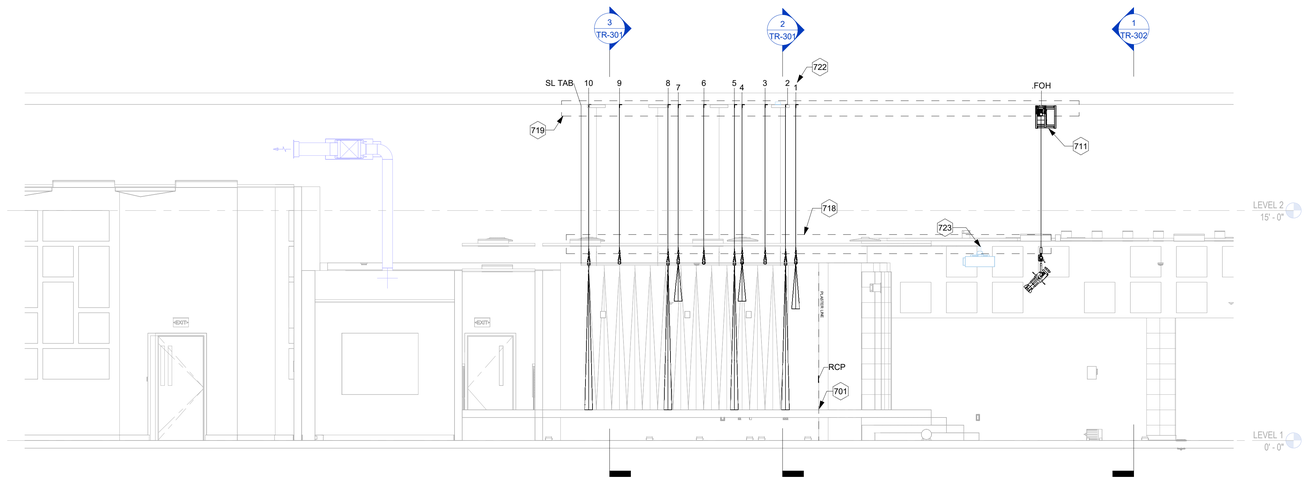
LINESET SCHEDULE - DIMENSIONS FROM DATUM							
Lineset ID	Description	Offset	Capacity	Batten Length	Class	Hoist Mount	Comments
.FOH	FOH ELECTRIC	14' - 6"	1000lbs	50' - 0"	FIXED SPEED HOIST	OVERHEAD STRUCTURE	PROVIDE WITH CABLE MANAGEMENT AS SPECIFIED
1	VALANCE	1' - 6"	500lbs	47' - 0"	DEAD-HUNG	N/A	--
2	MAIN DRAPE	2' - 2"	800lbs	47' - 0"	DEAD-HUNG	N/A	PROVIDE WITH BI-PARTING TRAVELER TRACK; PULL ON SL
3	1ST ELECTRIC	3' - 6"	1000lbs	41' - 0"	DEAD-HUNG	N/A	--
4	BORDER	5' - 0"	500lbs	41' - 0"	DEAD-HUNG	N/A	--
5	LEGS	5' - 6"	500lbs	41' - 0"	DEAD-HUNG	N/A	PROVIDE WITH WALK-ALONG TRACK AT 8'-0" LONG FROM EACH END
6	AUX ELECTRIC	7' - 6"	1000lbs	41' - 0"	DEAD-HUNG	N/A	--
7	BORDER	9' - 2"	500lbs	41' - 0"	DEAD-HUNG	N/A	--
8	MIDSTAGE TRAVELER	9' - 10"	800lbs	41' - 0"	DEAD-HUNG	N/A	PROVIDE WITH BI-PARTING TRAVELER TRACK; PULL ON SL
9	2ND ELECTRIC	13' - 0"	1000lbs	41' - 0"	DEAD-HUNG	N/A	--
10	UPSTAGE TRAVELER	15' - 0"	800lbs	41' - 0"	DEAD-HUNG	N/A	PROVIDE WITH BI-PARTING TRAVELER TRACK; PULL ON SL
SL TAB	STAGE LEFT TAB	20' - 9"	500lbs	14' - 0"	DEAD-HUNG	N/A	PROVIDE WITH PARALLEL WALK-ALONG TRACKS
SR TAB	STAGE RIGHT TAB	20' - 9"	500lbs	14' - 0"	DEAD-HUNG	N/A	PROVIDE WITH PARALLEL WALK-ALONG TRACKS



3 STAGE TRANSVERSE SECTION (LINESETS 3-10)
1/4" = 1'-0"



2 STAGE TRANSVERSE SECTION (LINESETS 1 & 2)
1/4" = 1'-0"



1 DINING CENTERLINE SECTION
1/4" = 1'-0"

KEYNOTES	
701	DATUM ORIGIN: THE DATUM FOR THEATRICAL RIGGING IS DEFINED AS: (1) THE STAGE CENTER-LINE. (2) THE REAR/ BACKSTAGE FINISH WALL OF THE PROSCENIUM ARCH [I.E. PLASTER-LINE]. (3) THE FINISH ELEVATION OF THE STAGE FLOOR
711	HOIST MOTOR. 3 HP MAXIMUM, TYP.
718	CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR AND PROVIDE PENETRATIONS THROUGH CEILING INCLUDING ASSOCIATED TRIM-RINGS FINISH-OUT, PAINT AND PATCH. TYP OF ALL LIFTLINE CEILING PENETRATIONS.
719	FIELD VERIFY STRUCTURAL CONDITIONS. PROVIDE SUPPLEMENTAL STRUT AS REQUIRED.
722	LINESET ID. TYP.
723	AV EQUIPMENT SHOWN FOR COORDINATION PURPOSES ONLY.

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MEP/T
LEAP
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FOOD SERVICE
TBD
T-281-256-2223
POOL/AQUATICS CONSULTANT NAME
T-000-000-0000

Arnold Middle School
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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

SECTIONS

TR-301

ISSUE FOR PROPOSAL

SECTIONS

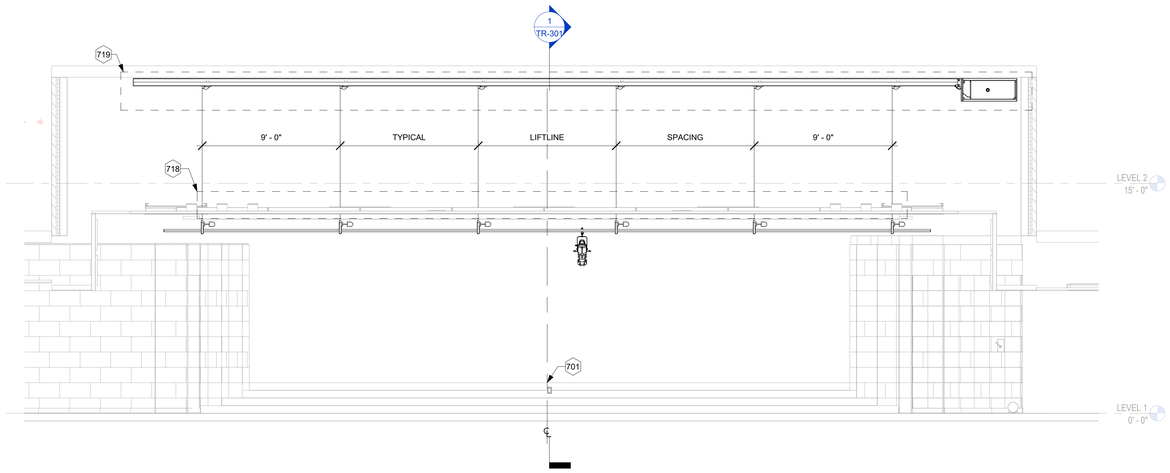
TR-302

FOR BLUEBEAM LABELING/OCR:

0"

1"

KEYNOTES	
701	DATUM ORIGIN: THE DATUM FOR THEATRICAL RIGGING IS DEFINED AS: (1) THE STAGE CENTER-LINE. (2) THE REAR/ BACKSTAGE FINISH WALL OF THE PROSCENIUM ARCH [I.E. PLASTER-LINE]. (3) THE FINISH ELEVATION OF THE STAGE FLOOR
718	CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR AND PROVIDE PENETRATIONS THROUGH CEILING INCLUDING ASSOCIATED TRIM-RINGS FINISH-OUT, PAINT AND PATCH. TYP OF ALL LIFTLINE CEILING PENETRATIONS.
719	FIELD VERIFY STRUCTURAL CONDITIONS. PROVIDE SUPPLEMENTAL STRUT AS REQUIRED.



1 CAFETERIA TRANSVERSE SECTION
1/4" = 1'-0"

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SHEN
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POOL/AQUATICS
CONSULTANT NAME
T-000-000-0000

Arnold Middle School

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CYPRESS, TX 77429

ISSUE FOR PROPOSAL

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

J H G F E D C K B A

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE 2/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

SECTIONS

TR-302

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/TL-TR23_220023_CFISD_Arnold MS.rvt

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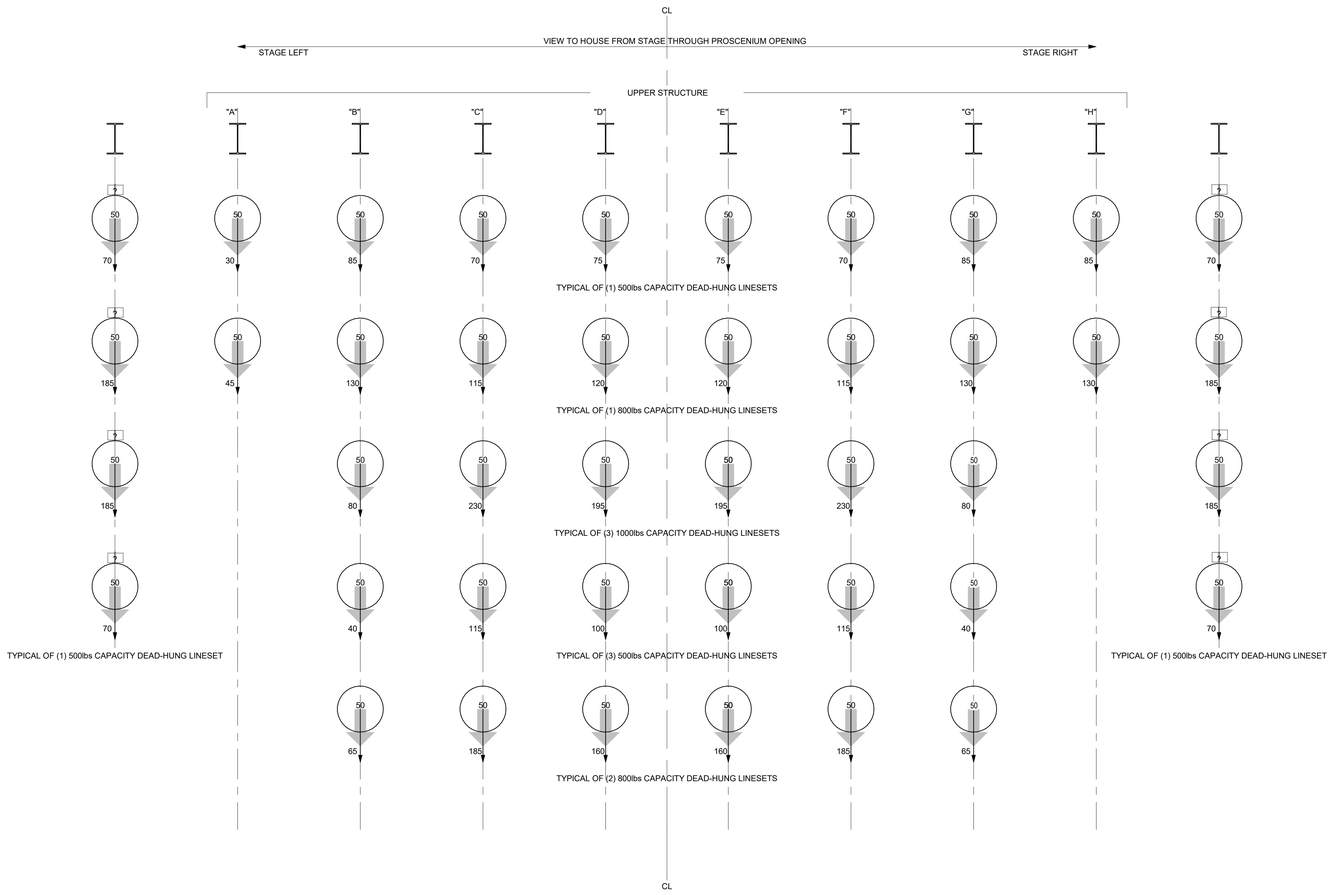
THEATRICAL RIGGING RISER AND LOADING DIAGRAM

TR-1701

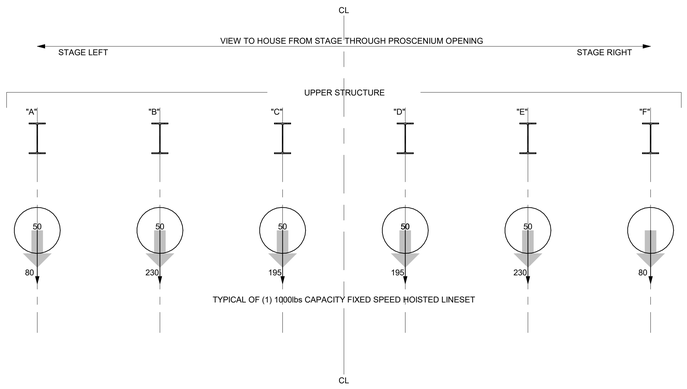
FOR BLUEBEAM LABELING:OCR:

0"

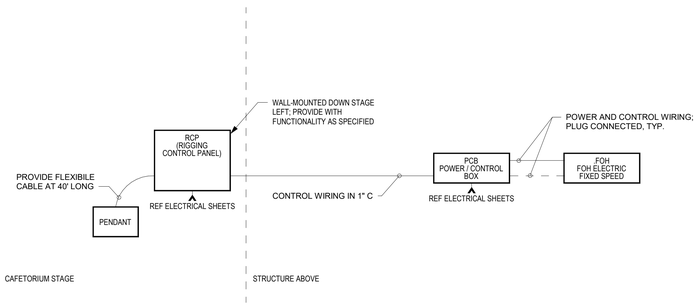
1"



3 DEAD-HUNG RIGGING ADVISORY LOADING DIAGRAM
N.T.S.



2 MOTORIZED HOIST ADVISORY LOADING DIAGRAM
N.T.S.

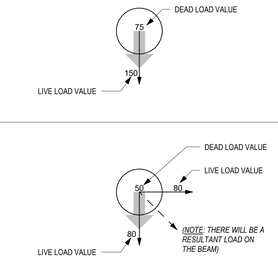


1 CAFETORIUM THEATRICAL RIGGING RISER DIAGRAM
N.T.S.

GENERAL NOTES

1. ALL HOISTED/MOTORIZED LINESETS MOUNT DIRECTLY TO GRID/LOFTWELL STRUCTURE.
2. LOADS IMPOSED ON STRUCTURE BY RIGGING SYSTEM ARE EXPRESSED IN POUNDS AS INDICATED. LOADING INCLUDES PROJECTED WEIGHT OF RIGGING HARDWARE (DEAD-LOAD) AND USER-APPLIED (LIVE) LOADS AS DESCRIBED ON THIS SHEET.
3. MAXIMUM LIVE LOADS EXPRESSED IN POUNDS BASED ON UNIFORMLY DISTRIBUTED LOAD ACROSS PIPE BATTENS UNLESS OTHERWISE NOTED.
4. PIPE BATTENS SPANNING THE SEVERAL LIFTING LINES ARE OF SCHEDULE 40 11/2" I.D. PIPE.
5. ONSTAGE HEADBEAM WELL SIDE LOAD IS BRACED BY LATERAL BEAM AND STEEL PLATE GUSSETS AT INTERVALS. VERIFY GUSSET LOCATIONS AND COORDINATE WITH ARCHITECT. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
6. COORDINATE SUPPLEMENTAL STEEL REQUIREMENTS WITH ARCHITECT; SEE STRUCTURAL DRAWINGS FOR DETAILS.
7. AFTER STEEL SIZING BY STRUCTURAL ENGINEER, BOTTOM OF STEEL ELEVATION OF LOFT-BEAMS SHALL BE A NOMINAL 7'-0" HIGHER THAN THAT OF THE LOFT-WELL CHANNELS.
8. FIELD VERIFY ALL DIMENSIONS.
9. OBSERVE ALL MANUFACTURER'S REQUIREMENTS.
10. RIGGING DATUM REFERED TO AS 0,0,0 IS DEFINED BY THE INTERSECTION OF THE CLINE OF THE STAGE, AT THE FINISH FLOOR ELEVATION, AND THE INSIDE FACE OF THE PROSCENIUM VERTICAL PLANE.
11. STEEL SHAPES SHOWN ARE FOR REFERENCE ONLY AND WILL VARY FROM THOSE SHOWN IN THIS CONCEPTUAL DRAWING.

LEGEND



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POOL/AQUATICS
CONSULTANT NAME
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Arnold Middle School

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CYPRESS, TX 77429

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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT

DISCIPLINE

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

THEATRICAL RIGGING RISER AND LOADING DIAGRAM

TR-1701

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0"

1"

MECHANICAL GENERAL NOTES AND LEGENDS

M-001

FOR BLUEBEAM LABELING/OCR:

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MECHANICAL PIPING LEGEND

DESCRIPTION	ABBV.
PUMPED CONDENSATE RETURN	PCR
HOT WATER SUPPLY	HWS
HOT WATER RETURN	HWR
CONDENSER WATER SUPPLY	CWS
CONDENSER WATER RETURN	CWR
CHILLED WATER SUPPLY	CHS
CHILLED WATER RETURN	CHR
REFRIGERANT LINE (LIQUID)	RL
REFRIGERANT LINE (SUCTION)	RS
REFRIGERANT LINE (HOT GAS)	RHG

MECHANICAL PIPING SYMBOLS LEGEND

DRAWINGS	DETAILS	DESCRIPTION
		DIRECTION OF FLOW
		DROP IN PIPE
		RISE IN PIPE
		GATE VALVE
		BALL VALVE
		CHECK VALVE
		SUPERVISED VALVE WITH FLOW SWITCH
		PLUG VALVE / GAS COCK
		BUTTERFLY VALVE
		HOT WATER BALANCING VALVE
		PIPE UNION
		PRESSURE CONTROL VALVE
		3-WAY VALVE
		SOLENOID VALVE
		FLOW SWITCH
		PRESSURE GAUGE WITH GAUGE COCK
		THERMOMETER
		T & P RELIEF VALVE
		STRAINER
		CAP
		FLEXIBLE CONNECTION
		NEW CONNECTION TO EXISTING PIPING

NOTES:

1. NOT ALL SYMBOLS MAY BE USED ON THESE DRAWINGS.

MECHANICAL RENOVATIONS NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID DATE.
2. OWNER RETAINS SALVAGE RIGHTS, PROVIDE A MINIMUM OF 72 HOURS NOTICE PRIOR TO REMOVAL OF EQUIPMENT.
3. PATCH AND SEAL ALL SLAB, ROOF AND WALL OPENINGS WITH LIKE MATERIAL WHERE MECHANICAL EQUIPMENT ONCE PENETRATED.
4. ALL FLOOR DRAINS EXISTING TO REMAIN. CONTRACTOR SHALL CLEAN AND KEEP FLOOR DRAINS UNOBSTRUCTED AND REUSE.
5. UNLESS SHOWN OTHERWISE, CONTRACTOR SHALL UTILIZE EXISTING OPENINGS IN WALLS, ROOF AND FLOOR SLABS FOR PIPING ETC. PROVIDE NEW SLEEVES FOR PIPING AND INFILL ANNULAR SPACES.
6. CONTRACTOR TO AVOID EXISTING CABLE RUNS DURING CONSTRUCTION.
7. PROVIDE ALL NEW PIPE SUPPORTS WHERE PIPING IS SCHEDULED TO BE REPLACED.
8. RE-INSTALL ANY CEILING AFTER COMPLETION OF WORK. REPLACE ANY EXISTING DAMAGED CEILING TILES IN THE AREAS OF CONSTRUCTION.
9. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN EXISTING BUILDING CLIMATE CONTROLLED DURING CONSTRUCTION. ALL REQUIRED EQUIPMENT AND ASSOCIATED POWER, WIRING SHALL BE PROVIDED BY THE CONTRACTOR.
10. CONTRACTOR TO PROVIDE NEW DUCT DETECTOR AS REQUIRED BY CODE ON ALL EXISTING AIR HANDLING UNITS, EQUAL TO OR MORE THAN 2,000 CFM SUPPLY. REFER TO DRAWING FOR AHU LOCATIONS. DETECTOR MANUFACTURER TO MATCH EXISTING DEVICES AND BE COMPATIBLE WITH EXISTING FACP. CONTRACTOR TO PROVIDE AND CONNECT ADDITIONAL DEVICES TO EXISTING FIRE ALARM CONTROL PANEL.

MECHANICAL DEMOLITION NOTES

1. DEMOLISH EQUIPMENT SCHEDULED FOR REPLACEMENT. EQUIPMENT NOT SCHEDULED FOR REPLACEMENT SHALL REMAIN IN WORKING CONDITIOM.
2. PATCH AND SEAL ALL ROOF AND WALL OPENINGS WHERE MECHANICAL EQUIPMENT ONCE PENETRATED.
3. DEMOLITION DOES NOT INCLUDE PLUMBING EQUIPMENT.
4. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION TO PRIOR TO DEMOLITION.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES.

MECHANICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION	ABBV.
	SUPPLY AIR CEILING DIFFUSER	SAG/SAR
	RETURN AIR GRILLE / REGISTER	RAG / RAR
	EXHAUST GRILLE / REGISTER	EG / ER
	SUPPLY AIR CEILING DIFFUSER	CD
	LINEAR SLOT DIFFUSER	LD
	SIDEWALL SUPPLY AIR GRILLE/REGISTER	SAG/SAR
	SIDEWALL RETURN AIR GRILLE/REGISTER	RAG/RAR
	DUCT MT'D. SIDEWALL SUPPLY AIR GRILLE/REGISTER	SAG/SAR
	SUPPLY DUCT RISE/DROP	
	RETURN DUCT RISE/DROP	
	EXHAUST DUCT RISE/DROP	
	DOOR GRILLE	DG
UC 3/4"	UNDERCUT DOOR	UC
WxD TD	LINED RETURN TRANSFER DUCT ABOVE CEILING (SIZE AS INDICATED)	TD
	SQUARE ELBOW WITH DOUBLE THICKNESS TURNING VANES	
	VOLUME DAMPER	MVD
	FLEXIBLE DUCT	FLEX.CONN.
	NEW DUCTWORK	
	EXISTING DUCTWORK / EQUIPMENT	
	DEMO DUCTWORK / EQUIPMENT	
	NEW MECHANICAL EQUIPMENT	
T	THERMOSTAT SENSOR	
H	HUMIDISTAT SENSOR	
T1	COMBINATION TEMPERATURE AND CO2 SENSOR	
T2	COMBINATION TEMPERATURE, HUMIDITY, & CO2 SENSOR	
T3	COMBINATION TEMPERATURE & HUMIDITY SENSOR	
SD	SMOKE DAMPER	SD
FD	FIRE DAMPER	FD
FS	COMBINATION FIRE AND SMOKE DAMPER	F/SD
CO2	CARBON DIOXIDE SENSOR	CO2
CO	CARBON MONOXIDE SENSOR	CO
BD	BAROMETRIC DAMPER	BD
S	SMOKE DETECTOR (BY DIVISION 28)	S
A	PNEUMATIC DAMPER ACTUATOR	A
BDD	BACKDRAFT DAMPER	BDD
FMS	FLOW MEASURING STATION	FMS
	SPIN-IN VOLUME DAMPER	
M	MOTORIZED DAMPER	M
	AIRFLOW DIRECTION	
	SUPPLY AIR	SA
	RETURN AIR	RA
	OUTSIDE AIR	OA
	EXHAUST AIR	EA
	OWNER-FURNISHED EQUIPMENT	OFE
	ABOVE FINISHED FLOOR	AFF
	BOTTOM OF DUCT	BOD
	NOT IN CONTRACT	NIC
	FURNISHED BY OTHERS	FBO
	REFLECTIVE CEILING PLAN	RCP
	EXISTING	(E)
	SCOPE OF WORK	SOW
	VARIABLE FREQUENCY DRIVE	VFD
	DISCONNECT FROM EXISTING	FBO
	CONNECT TO EXISTING	
1 / M.401	PLAN SECTION SECTION NUMBER SHEET NUMBER	
A,150	DIFFUSER SCHEDULE CFM	
RE:01/M-401	DRAWING REFERENCE DETAIL NUMBER SHEET NUMBER	

NOTES:

1. NOT ALL SYMBOLS MAY BE USED ON THESE DRAWINGS.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED AS PER THE LOCAL MECHANICAL CODE, THE LOCAL BUILDING CODES AND LOCAL ENERGY CONSERVATION CODE.
2. PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND ANY OTHER INCIDENTALS ESSENTIAL FOR A COMPLETE AND OPERATIONAL INSTALLATION OF THE HVAC WORK SHOWN ON THE PLANS.
3. ALL DUCTWORK SHALL BE FABRICATED PER THE LATEST SMACNA STANDARDS.
4. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL INFO FOR COORDINATION AND POTENTIAL CONFLICTS. THE MECHANICAL SUBCONTRACTOR SHALL, WITHOUT EXTRA COST TO THE PROJECT SHALL MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK.
5. DUCT DIMENSIONS INDICATED ON DRAWINGS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
6. ALL NEW HVAC EQUIPMENT SHALL BE CLEANED AFTER THE FINISHING OF DRYWALL AND PRIOR TO THE RELEASE OF BUILDING TO THE OWNER. IF THE DUCTWORK AND AIR DEVICES ARE NOT PROPERLY PROTECTED DURING CONSTRUCTION THAN IT SHALL BE CLEANED AS WELL. CONTRACTOR TO PROVIDE DOCUMENTATION WITH DATE AND TIME OF ALL THE PERFORMED SERVICES.
7. ALL WALL MOUNTED TEMPERATURE, HUMIDITY AND CO2 SENSORS SHALL BE MOUNTED AT THE SAME ELEVATION AS THE LIGHT SWITCHES. COORDINATE WITH ELECTRICAL DRAWINGS AND ARCHITECTURAL ELEVATION PLAN.
8. REFER TO MECHANICAL ROOF PLAN FOR ROOF MOUNTED EQUIPMENTS.
9. REFER TO CHILLED WATER AND HEATING WATER PIPING DIAGRAMS FOR PIPE SIZES.
10. NEW PIPING TO BE INSTALLED AS TO NOT BLOCK ANY ACCESS DOORS FROM FULL SWING OPENING.
11. PRIOR TO INSTALLATION OF EQUIPMENT, VERIFY MANUFACTURER'S RECOMMENDED AND CODE REQUIRED CLEARANCES ARE AVAILABLE.
12. COORDINATE ALL WORK WITH ALL OTHER TRADES.
13. PROVIDE FIRE DAMPERS, SMOKE DAMPERS, OR COMBINATION FIRE/SMOKE DAMPERS IN ALL DUCTWORK AND RETURN AIR OPENINGS WHICH PENETRATE FIRE OR SMOKE RATED WALL OR FLOOR SLABS. FIRE OR SMOKE RATED WALLS CAN INCLUDE BUT NOT LIMITED TO CORRIDOR WALLS, MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS. REFER TO ARCHITECTURAL PLANS FOR PARTITION AND WALL TYPES INDICATING FIRE OR SMOKE RATED WALL LOCATION AND RATING.
14. REFER TO ARCHITECTURAL LOUVER SCHEDULE AND ELEVATION PLANS FOR EXACT SIZE, LOCATION AND ELEVATION.
15. ALL FAN POWERED BOXES SHALL BE EQUIPPED WITH FACTORY PROVIDED AND MOUNTED INDUCED AIR INLET ELBOW SOUND ATTENUATOR.
16. ALL TERMINAL UNITS AND INLINE EXHAUST FANS SHALL BE INSTALLED IN PROPER ACCESSIBLE AREA.
17. PROVIDE 24"x24" ACCESS PANEL IN THE GYP BOARD CEILING WHERE TERMINAL UNITS AND INLINE EXHAUST FANS ARE INSTALLED. COORDINATE WITH ARCHITECTURAL CEILING PLANS.
18. COORDINATE ALL AIR DEVICES LOCATIONS WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
19. ALL SUPPLY AND RETURN AIR CEILING DEVICES SHALL BE INSULATED ON TOP OF DEVICES TO PREVENT CONDENSATION. INSULATE DEVICES WITH 1-1/2" WRAPAROUND INSULATION AND TOTALLY COVER ALL SURFACES. SECURE INSULATION IN PLACE AND APPLY INSULATION PRIOR TO MOUNTING AIR DEVICES.
20. PROVIDE TURNING VANES ON ALL RECTANGULAR ELBOWS.
21. ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL DUCT. REFER TO SPECIFICATION. PAINT DUCTWORK. COORDINATE COLOR WITH THE ARCHITECT.
22. PROVIDE 16x16 RETURN AIR OPENING IN WALL ABOVE CEILING WHERE WALLS GO UPTO DECK AND RETURN OPENING NOT SHOWN ON THE DRAWINGS. SHOW RETURN AIR OPENINGS IN DUCT SHOP DRAWINGS.
23. PROVIDE INTERNALLY LINED DUCT FOR THE FOLLOWING DUCTWORK UNLESS OTHERWISE NOTED ON THE DRAWINGS:
    -FIRST 20'-0" OF SUPPLY AND RETURN DUCT FROM ROOF MOUNTED AIR HANDLING UNITS.
    -FIRST 10'-0" OF ROOF MOUNTED EXHAUST FANS.
    -ALL RETURN AIR BOOTS AND TRANSFER DUCTS.
24. BUILDING AUTOMATION SYSTEM THERMOGRAPHICS SHALL BE UPDATED TO REFLECT CURRENT FLOOR PLAN, ROOM NAMES AND ALL ASSOCIATED HVAC EQUIPMENT.
25. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE ELECTRICAL AND PLUMBING CHANGES FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
26. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE BETWEEN CONTRACTORS SHALL BE WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
27. ALL DUCTWORK (SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR) IN UNCONDITIONED / NON-RETURN PLENUM SHALL BE PROVIDED WITH DUCT WRAP INSULATION.
28. REFER TO SNAP 'N SHIELD REFRIGERANT PIPING SUPPORT DETAIL FOR REFRIGERANT PIPING SUPPORT.
29. PROVIDE INSULATED CONDENSATE DRAIN PIPE FROM FLOOR MOUNTED OR SUSPENDED UNIT TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
30. PROVIDE CLEAR, WEATHERPROOF ENCLOSURE FOR THE CONTROL VALVE ACTUATORS LOCATED OUTDOORS.
31. ALL EXPOSED AND OUTDOOR REFRIGERANT AND CONDENSATE PIPING SHALL BE PROVIDED WITH INSULATION AND ALUMINUM JACKET.
32. ALL OUTSIDE AIR INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY PLUMBING VENT, FUEL-FIRED APPLIANCE VENT OR EXHAUST AIR DISCHARGE.
33. FOR ALL OPEN SPACES (MAIN CORRIDOR, GYM, CAFETERIA, LIBRARY ETC.), PROVIDE SENSORS IN CLEAR LOCKABLE PROTECTIVE ENCLOSURE.
34. NOT ALL SYMBOLS OR ABBREVIATIONS MAY BE USED ON THESE DRAWINGS.
35. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT TAG / DESIGNATION NOTATIONS PRIOR TO ORDERING NEW EQUIPMENT SCHEDULED FOR REPLACEMENT.

NOTES: (APPLY ON ALL MECHANICAL FLOOR PLAN)

- PROVIDE NEW SUPPLY AIR DIFFUSER TO MATCH NEW REFLECTED CEILING PLAN WITH NEW FLEX DUCT; AND CONNECT TO EXISTING BRACH DUCT.
- PROVIDE NEW RETURN AIR DIFFUSER TO MATCH THE NEW REFLECTED CEILING PLAN.
- PROVIDE NEW EXHAUST AIR GRILLE TO MATCH NEW REFLECTED CEILING PLAN. PROVIDE EXTENDED TAP CONNECTION TO EXISTING DUCTWORK.

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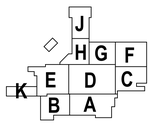

KEY PLAN
NORTH: PLAN TRUE

2/17/2025
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DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

MECHANICAL GENERAL NOTES AND LEGENDS

M-001

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1"

1ST LEVEL MECHANICAL DEMO PLAN - AREA A
MD-101A
FOR BLUEBEAM LABELING/OCR:

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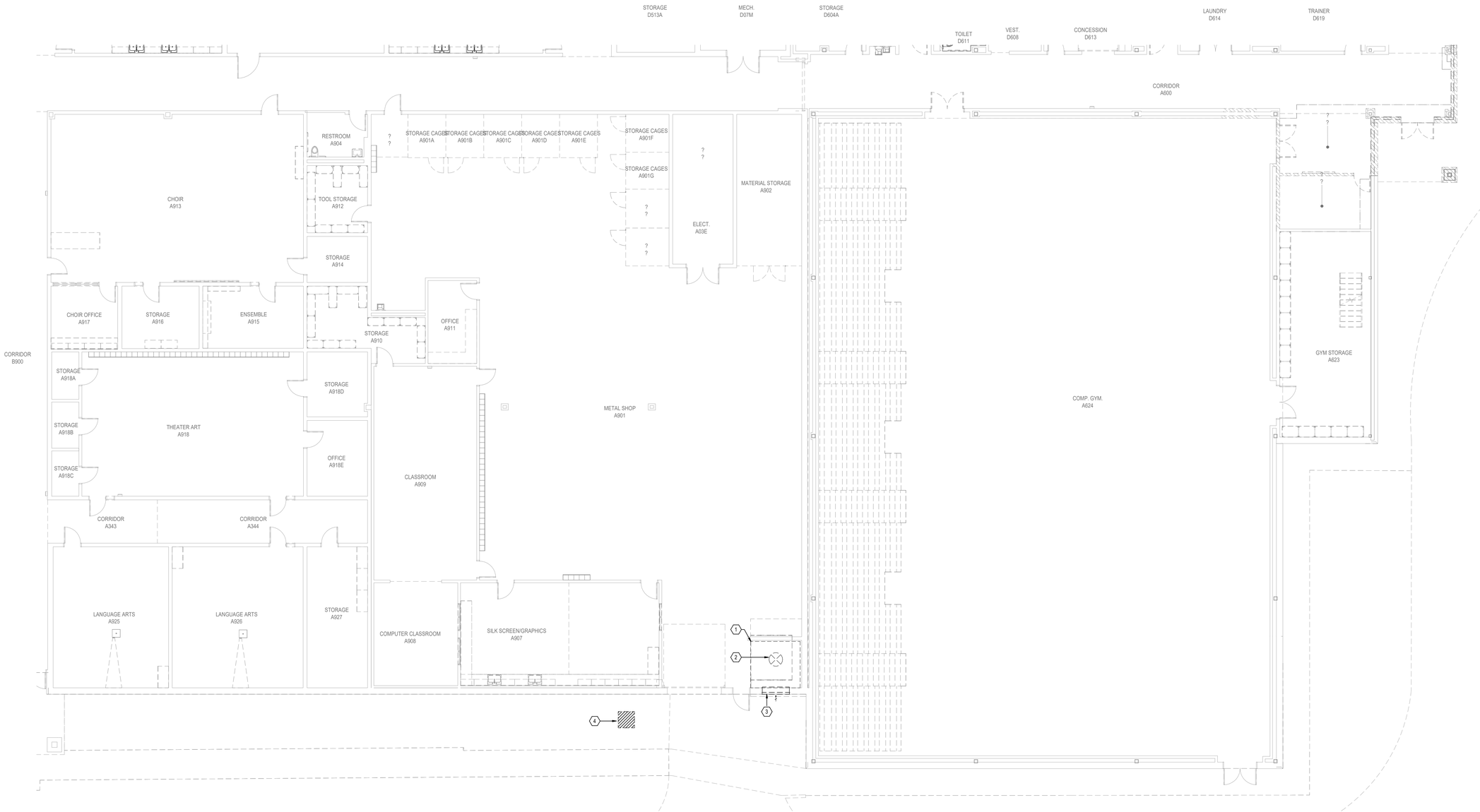
KEYED NOTES:

1. DEMO EXISTING PAINT BOOTH.
2. DEMO EXISTING 30" EXHAUST DUCT AND ASSOCIATED ROOF VENTILATOR ON ROOF. CAP AND SEAL EXISTING ROOF OPENING.
3. DEMO EXISTING 60"x60" MAKE-UP AIR LOUVER. PATCH EXISTING WALL OPENING WITH SIMILAR MATERIAL. COORDINATE WITH ARCHITECT.
4. DEMO EXISTING DUST COLLECTOR AND ASSOCIATED OUTDOOR DUCTWORK.



1 1ST LEVEL MECHANICAL DEMO PLAN - AREA A
SCALE: 1/8" = 1'-0"

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1ST LEVEL MECHANICAL DEMO PLAN - AREA A

MD-101A

0"

1"

1ST LEVEL MECHANICAL DEMO PLAN - AREA H

MD-101H

FOR BLUEBEAM LABELING:OCR:

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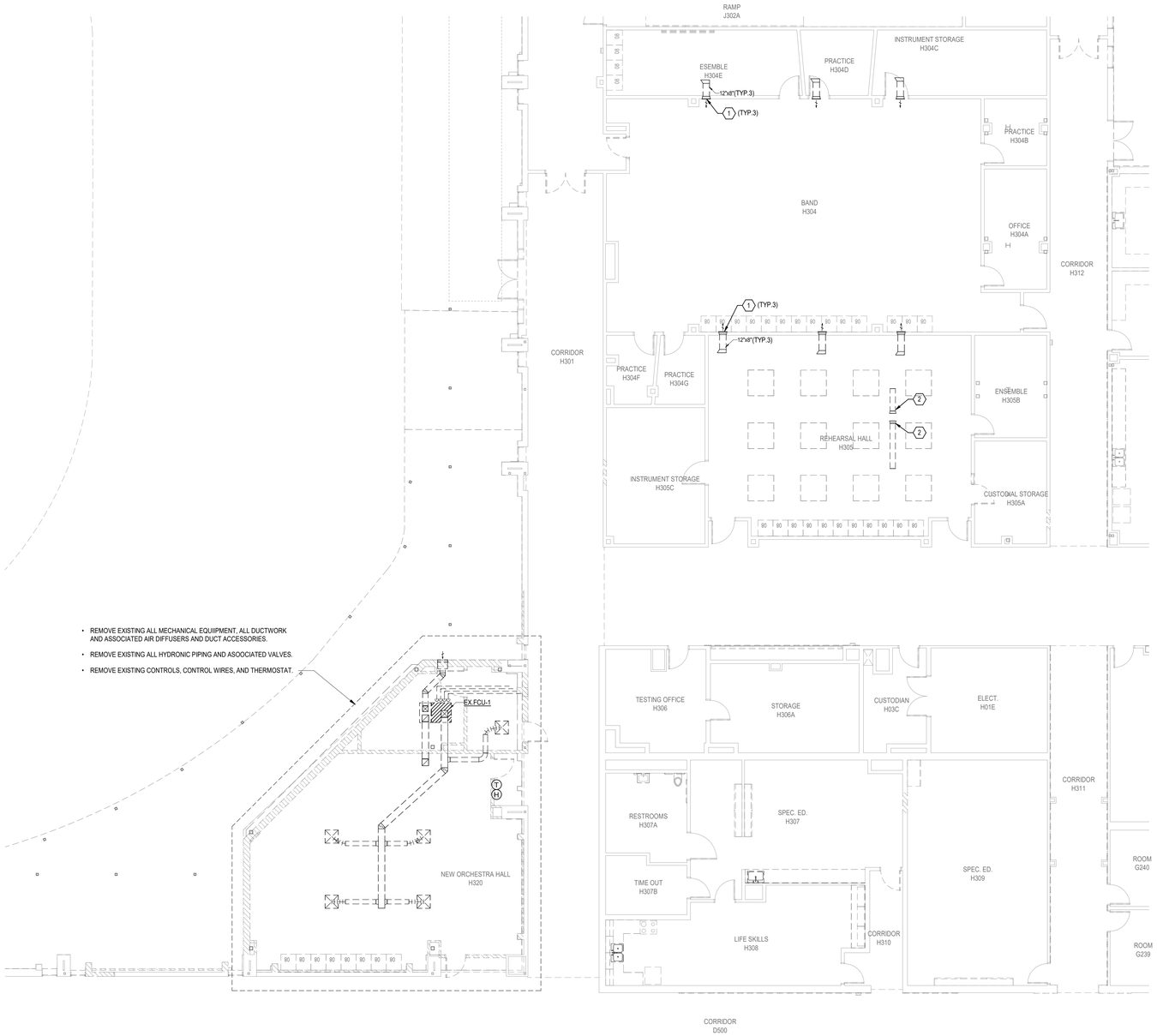
KEYED NOTES:

1. REMOVE EXISTING BRANCH DUCT AND ASSOCIATED SIDE WALL GRILLE.
2. REMOVE EXISTING BRANCH DUCT; PATCH AND SEAL EXISTING DUCT OPENING.



1 **1ST LEVEL MECHANICAL DEMO PLAN - AREA H**
SCALE: 1/8" = 1'-0"

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1ST LEVEL MECHANICAL DEMO PLAN - AREA H

MD-101H

0"

1"

MECHANICAL ROOF DEMO PLAN

MD-301

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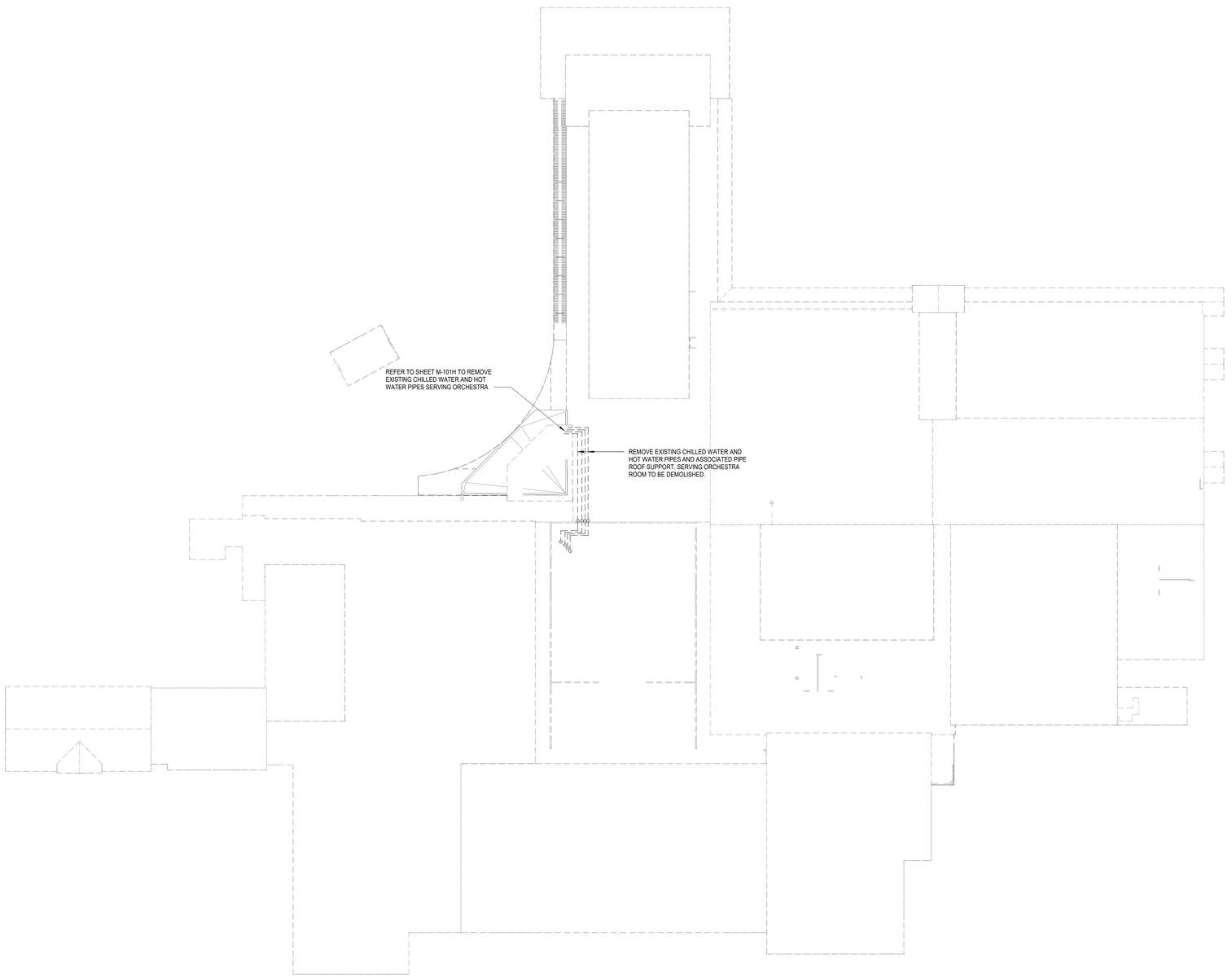

1 **MECHANICAL ROOF DEMO PLAN**
SCALE: 1/32" = 1'-0"

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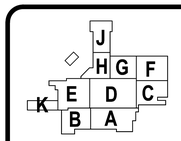

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MECHANICAL ROOF DEMO PLAN

MD-301

0"
1"

MECHANICAL SITE PLAN - COMPOSITE
MS-101
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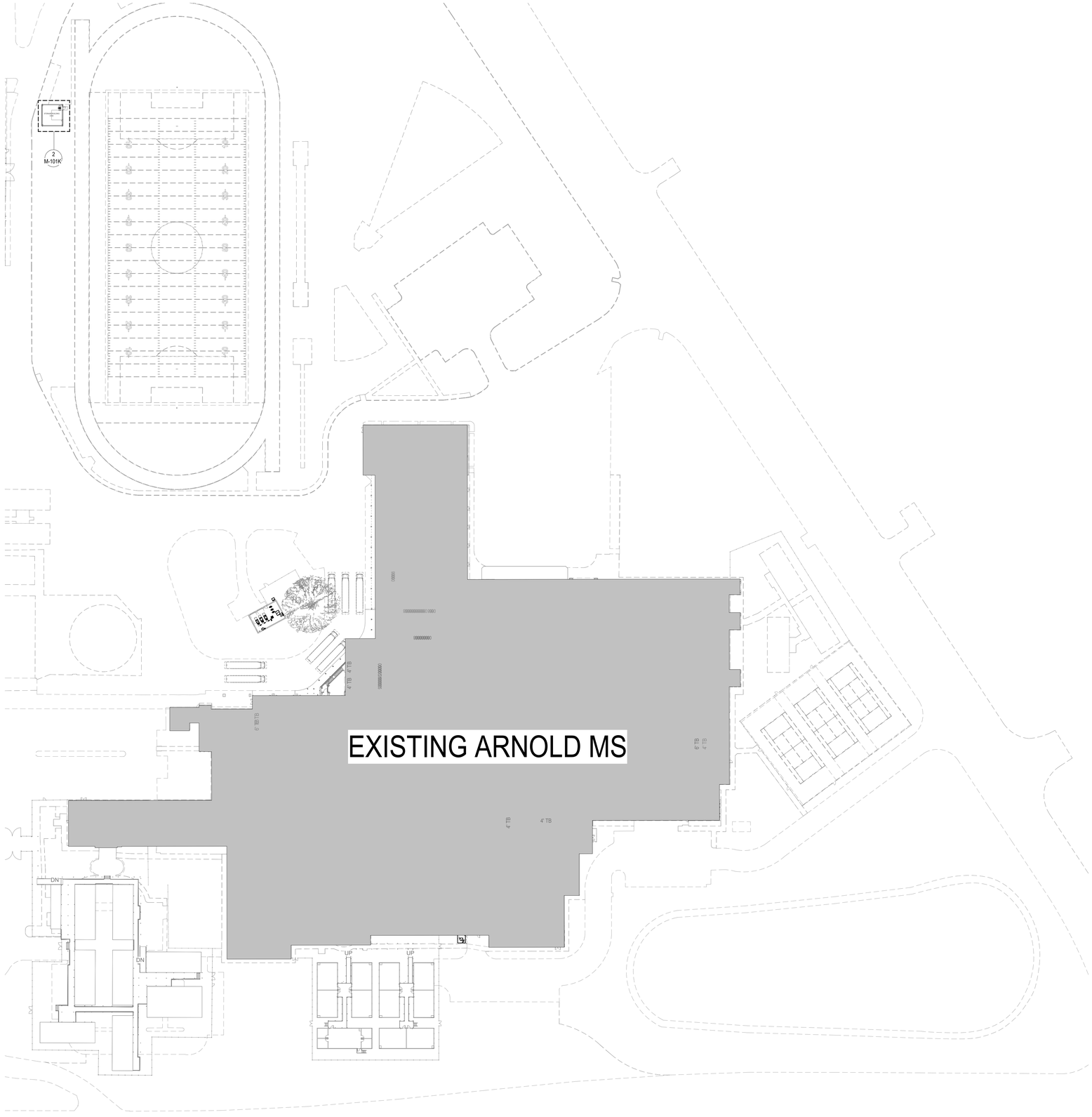

1 MECHANICAL SITE PLAN - COMPOSITE
SCALE: 1" = 50'-0"

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MECHANICAL SITE PLAN - COMPOSITE

MS-101

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0"
1"

1ST LEVEL MECHANICAL PLAN - COMPOSITE
M-101
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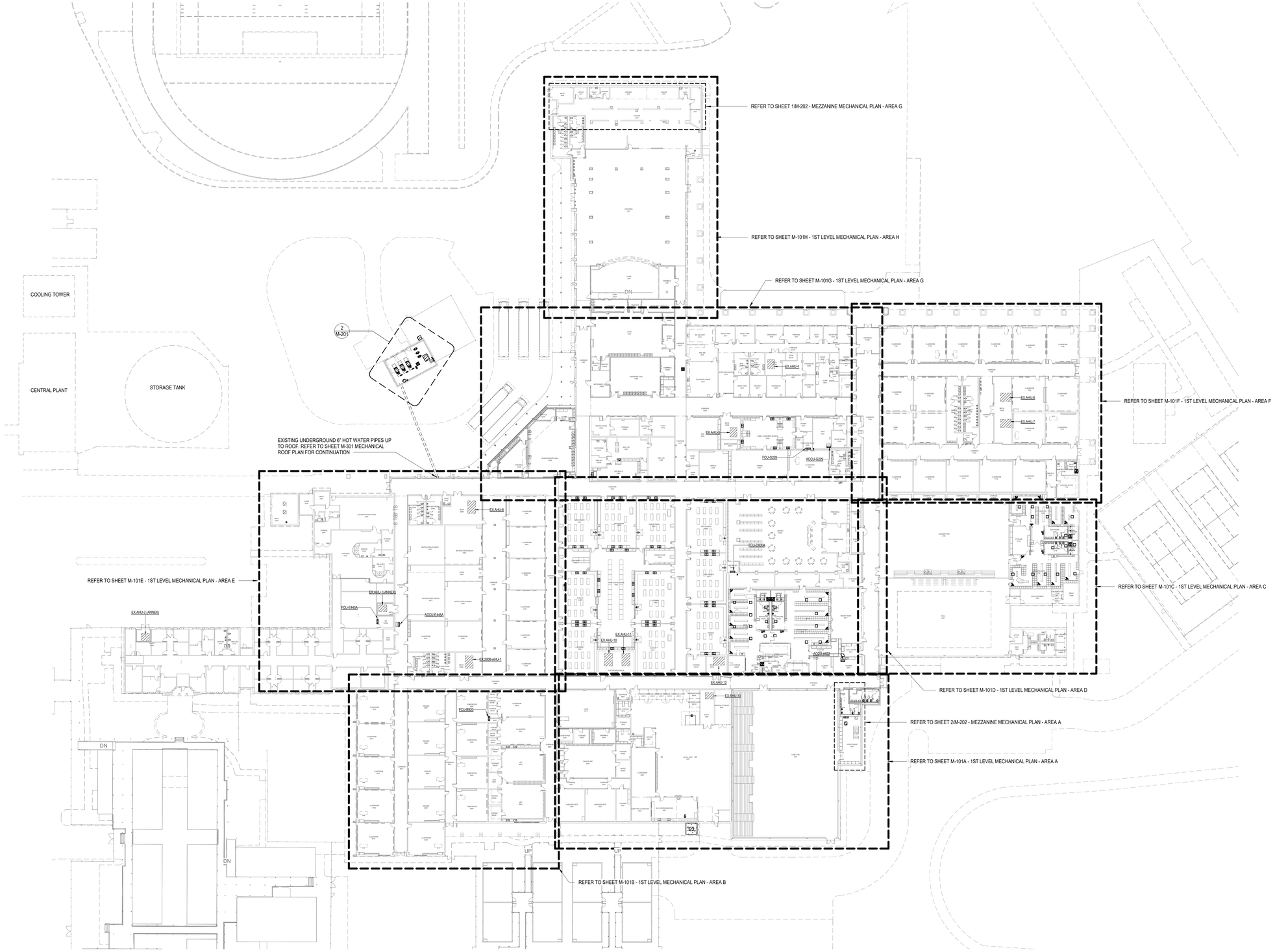

1 **1ST LEVEL MECHANICAL PLAN - COMPOSITE**
SCALE: 1/32" = 1'-0"

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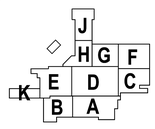

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No.	Description	Date

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BUILDING NUMBER

1ST LEVEL MECHANICAL PLAN - COMPOSITE

M-101

ISSUE FOR PROPOSAL

1ST LEVEL MECHANICAL PLAN - AREA A

M-101A

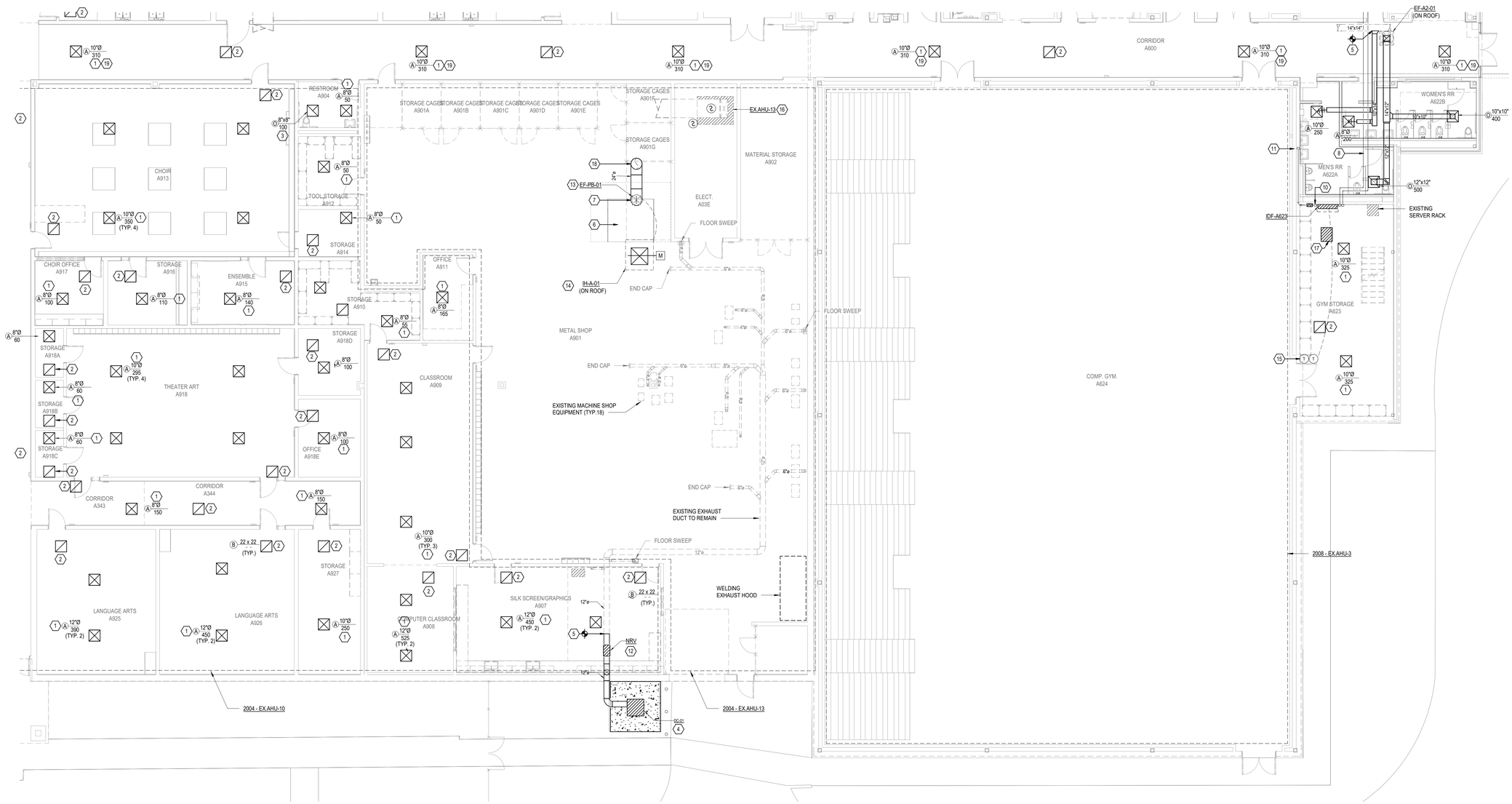
FOR BLUEBEAM LABELING/OCR:

0"

1"

KEYED NOTES:

1. REMOVE EXISTING LAY-IN SUPPLY AIR DIFFUSER AND ASSOCIATED FLEX DUCT; AND PROVIDE NEW DIFFUSER WITH NEW FLEX DUCT AND CONNECT TO EXISTING BRANCH DUCT. PRIOR TO BID, VERIFY AIR DIFFUSER TYPE OF CONNECTION AND SIZES. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
2. REMOVE EXISTING LAY-IN RETURN AIR DIFFUSER; AND PROVIDE NEW RETURN AIR GRILLE SIMILAR TO EXISTING. IF RETURN DIFFUSER HAS RETURN AIR BOOT, KEEP THE EXISTING BOOT AND RE-CONNECT TO NEW GRILLE. PRIOR TO BID, VERIFY RETURN GRILLE NECKSIZE TO MATCH THE EXISTING SIZE. COORDINATE WITH NEW REFLECTED CEILING PLAN.
3. REMOVE EXISTING EXHAUST AIR GRILLE; AND PROVIDE NEW GRILLE SIMILAR TO EXISTING DUCT CONNECTION TYPE AND NECKSIZE. MATCH EXISTING NECK SIZE AND TYPE OF CONNECTION. PRIOR TO BID, VERIFY AIR GRILLE TYPE OF CONNECTION. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
4. DUST COLLECTOR, DC-01 WITH NEW CONCRETE PAD AND BOLLARDS. PROVIDE NEW EXPOSED EXHAUST DUCT OUTSIDE. CONTRACTOR SHALL INSTALL AS PER MANUFACTURER'S RECOMMENDED CLEARANCES.
5. CONNECT NEW SUPPLY DUCT TO EXISTING.
6. NEW PAINT BOOTH.
7. ROUTE NEW 24" EXHAUST DUCT FROM NEW PAINT BOOTH EXHAUST FAN UP THROUGH ROOF. INSTALL DUCT AND VENTILATOR PER MANUFACTURER'S SPECIFICATIONS. PAINT BOOTH EXHAUST FAN SHALL BE RTT ENGINEERED SOLUTIONS, MODEL IB-08-08-05-00-S; 24" FAN DIA.,8000 CFM, 3HP, 460V/3PH/60HZ. AS SPECIFIED BY ARCHITECT.
8. REFRIGERANT LINES; SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE SNAP-N' SHIELD RERIGERANT PIPING SUPPORT. REFER TO DETAIL DRAWING.
9. LIQUID AND SUCTION REFRIGERANT PIPES TO CONDENSING UNIT ON ROOF; REFER TO SHEET M-301. SIZE PER MANUFACTURER'S RECOMMENDATION.
10. CONDENSATE PUMP LOCATION ABOVE CEILING; COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE LOCATION.
11. 3/4"Ø CONDENSATE DRAIN DOWN TO TAILPIECE PIPE. REFER TO PLUMBING DRAWING FOR EXACT DRAIN LOCATIONS AND DETAILS.
12. PROVIDE NO RETURN EXPLOSION ISOLATION VALVE (NRV) WITH SUPPORT SUSPENDED FROM STRUCTURE WITH ALL THREADED RODS ON EACH CORNERS.
13. NEW PAINT EXHAUST VENTILATOR EF-PB-01, SPECIFIED BY ARCHITECT; SUPPLY BY GENERAL CONTRACTOR AND INSTALL BY MECHANICAL CONTRACTOR. INTERLOCK FAN WITH MOTORIZE DAMPER, IH-A-01.
14. 36"x36" OUTSIDE AIR DUCT TO IH-A-01 ON ROOF; TRANSITION TO UNIT INLET, END DUCT AT 16" BELOW STRUCTURE WITH MOTORIZED DAMPER AND ALUMINUM WIRE MESH CLOTH.
15. PROVIDE SECONDARY THERMOSTAT WITH TEMPERATURE DISPLAY; REFER TO SEQUENCE OF OPERATION SPECIFICATIONS.
16. EXISTING AHU TO REMAIN. PROVIDE DUCT MOUNTED IONIZATION (SMOKE) DETECTOR IN SUPPLY AIR DUCT AND RETURN AIR INLET SPECIFIED AND INSTALLED IN DIVISION 28.
17. PROVIDE TEMPORARY SPOT COOLER TO MAINTAIN SPACE TEMPERATURE AND HUMIDITY DURING CONSTRUCTION.
18. 24" EXHAUST DUCT UP ON ROOF.
19. ADJUST THE LOCATION OF SUPPLY AIR DIFFUSER TO MATCH NEW REFLECTED CEILING PLAN AND LIGHTING FIXTURE. EXTEND SUPPLY BRANCH DUCT IF NEEDED.



1 **1ST LEVEL MECHANICAL PLAN - AREA A**
SCALE: 1/8" = 1'-0"

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FOOD SERVICE
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OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School
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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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J H G F E D C K B A

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
2/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

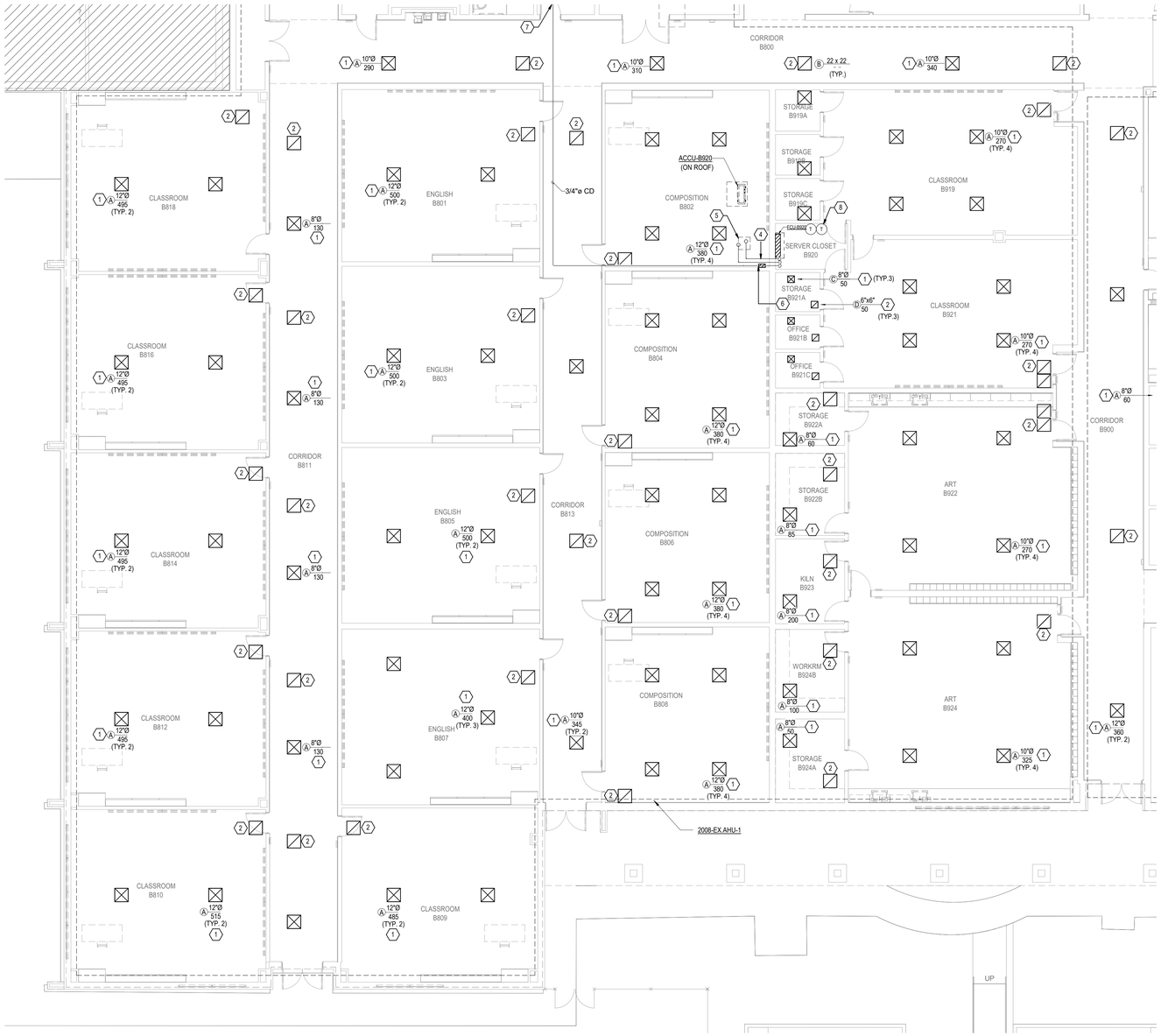
1ST LEVEL MECHANICAL PLAN - AREA A

M-101A

0"
1"

1ST LEVEL MECHANICAL PLAN - AREA B
M-101B
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



KEYED NOTES:

1. REMOVE EXISTING LAY-IN SUPPLY AIR DIFFUSER AND ASSOCIATED FLEX DUCT; AND PROVIDE NEW DIFFUSER WITH NEW FLEX DUCT AND CONNECT TO EXISTING BRANCH DUCT. PRIOR TO BID, VERIFY AIR DIFFUSER TYPE OF CONNECTION AND SIZES. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
2. REMOVE EXISTING LAY-IN RETURN AIR DIFFUSER; AND PROVIDE NEW RETURN AIR GRILLE SIMILAR TO EXISTING, IF RETURN DIFFUSER HAS RETURN AIR BOOT, KEEP THE EXISTING BOOT AND RE-CONNECT TO NEW GRILLE. PRIOR TO BID, VERIFY RETURN GRILLE NECKSIZE TO MATCH THE EXISTING SIZE. COORDINATE WITH NEW REFLECTED CEILING PLAN.
3. REMOVE EXISTING EXHAUST AIR GRILLE; AND PROVIDE NEW GRILLE SIMILAR TO EXISTING DUCT CONNECTION TYPE AND NECKSIZE, MATCH EXISTING NECK SIZE AND TYPE OF CONNECTION. PRIOR TO BID, VERIFY AIR GRILLE TYPE OF CONNECTION. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
4. REFRIGERANT LINES; SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE SNAP-N' SHIELD RERIGERANT PIPING SUPPORT. REFER TO DETAIL DRAWING.
5. LIQUID AND SUCTION REFRIGERANT PIPES TO CONDENSING UNIT ON ROOF; REFER TO SHEET M-301. SIZE PER MANUFACTURERS RECOMMENDATION.
6. CONDENSATE PUMP LOCATION ABOVE CEILING; COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE LOCATION.
7. 3/4"Ø CONDENSATE DRAIN, REFER TO SHEET M-101E - 1ST LEVEL MECHANICAL PLAN - AREA E FOR CONTINUATION.
8. PROVIDE SECONDARY THERMOSTAT WITH TEMPERATURE DISPLAY; REFER TO SEQUENCE OF OPERATION SPECIFICATIONS.
9. EXISTING AIR TERMINAL UNIT TO REMAIN. ALL COMPONENTS SHALL FIT IN THE EXISTING CONTROL ENCLOSURE. REFER TO EXISTING FANPOWERED BOX SCHEDULE. UPGRADE TO FULL DDC CONTROLS. REMOVE EXISTING CONTROL VALVE AND REPLACE WITH NEW INSULATION AFTER REPLACING VALVES.
10. REPLACE EXISTING SENSORS, ASSOCIATED WIRING AND CONTROLS WITH NEW. REUSE EXISTING CONDUITS.

1 **1ST LEVEL MECHANICAL PLAN - AREA B**
SCALE: 1/8" = 1'-0"

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STRUCTURAL CONSULTANT NAME T.000.000.0000
MEP/FP CONSULTANT NAME T.000.000.0000
ACOUSTIC CONSULTANT NAME T.000.000.0000
TECHNOLOGY CONSULTANT NAME T.000.000.0000
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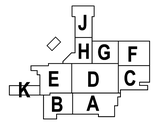
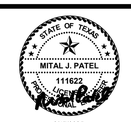


KEY PLAN
NORTH: PLAN TRUE



2/17/2025
LEAF ENGINEERS
F-16872

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

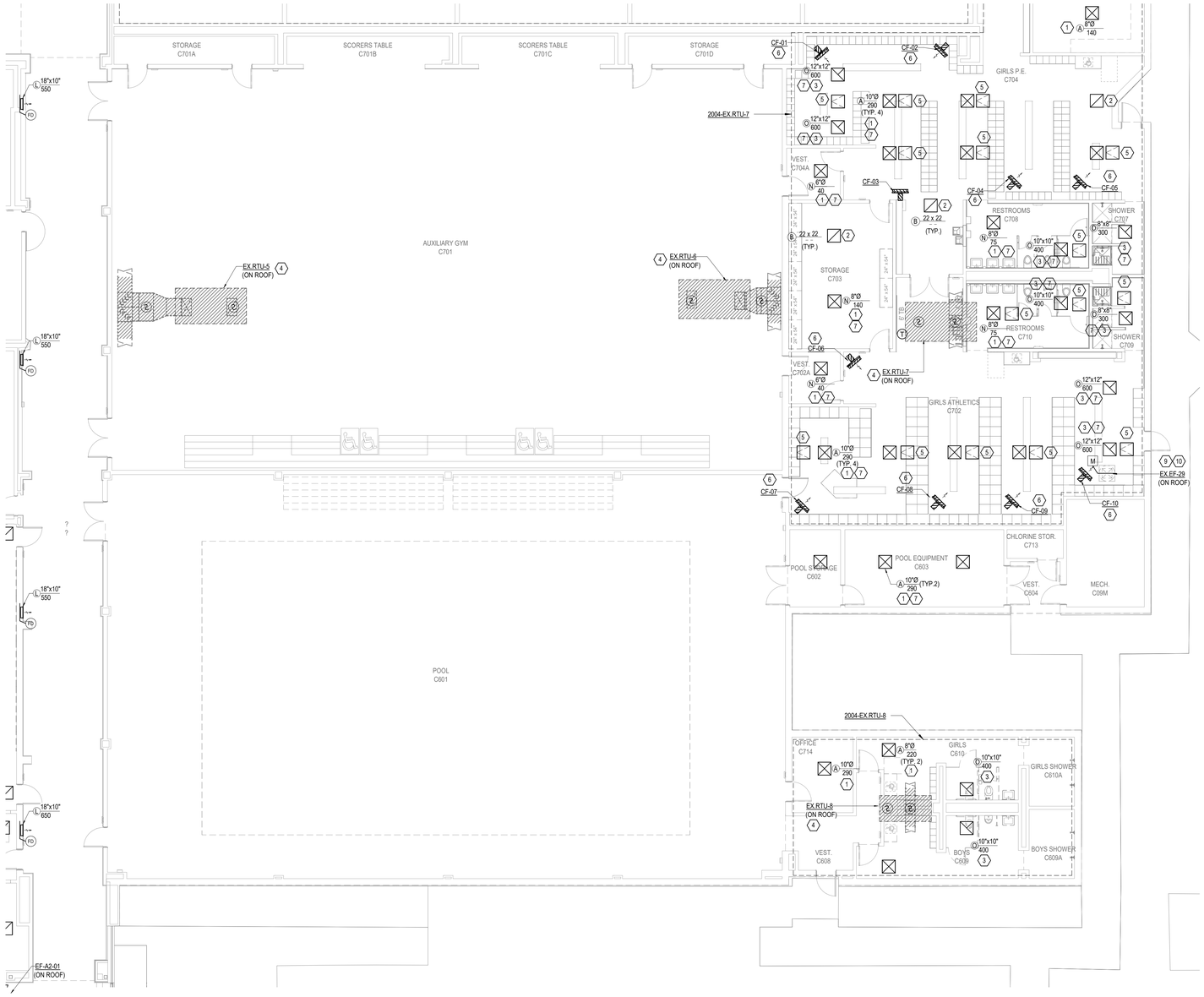
1ST LEVEL MECHANICAL PLAN - AREA B

M-101B

0"
1"

1ST LEVEL MECHANICAL PLAN - AREA C
M-101C
FOR BLUEBEAM LABELING:OCR:

ISSUE FOR PROPOSAL



KEYED NOTES:

1. REMOVE EXISTING LAY-IN SUPPLY AIR DIFFUSER AND ASSOCIATED FLEX DUCT. AND PROVIDE NEW DIFFUSER WITH NEW FLEX DUCT AND CONNECT TO EXISTING BRANCH DUCT. PRIOR TO BID, VERIFY AIR DIFFUSER TYPE OF CONNECTION AND SIZES. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
2. REMOVE EXISTING LAY-IN RETURN AIR DIFFUSER. AND PROVIDE NEW RETURN AIR GRILLE SIMILAR TO EXISTING. IF RETURN DIFFUSER HAS RETURN AIR BOOT, KEEP THE EXISTING BOOT AND RE-CONNECT TO NEW GRILLE. PRIOR TO BID, VERIFY RETURN GRILLE NECKSIZE TO MATCH THE EXISTING SIZE. COORDINATE WITH NEW REFLECTED CEILING PLAN.
3. REMOVE EXISTING EXHAUST AIR GRILLE. AND PROVIDE NEW GRILLE SIMILAR TO EXISTING DUCT CONNECTION TYPE AND NECKSIZE, MATCH EXISTING NECK SIZE AND TYPE OF CONNECTION. PRIOR TO BID, VERIFY AIR GRILLE TYPE OF CONNECTION. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
4. EXISTING ROOF TOP UNIT AND ASSOCIATED DUCTWORK TO REMAIN. PROVIDE DUCT MOUNTED IONIZATION (SMOKE) DETECTOR IN SUPPLY AIR DUCT AND RETURN AIR INLET SPECIFIED AND INSTALLED IN DIVISION 28.
5. PROVIDE NEW 2'x2' ACCESS CEILING PANEL AND INSTALL APPROPIATE LOCATION. COORDNATION LOCATION WITH ARCHITECT.
6. CIRCULATING FAN INSTALL WITH CEILING BRACKET AND RIGID STEEL SUPPORT TO JOIST. COORDINATE FAN LOCATION NOT TO OBSTRUCT WITH DOOR LOCKER CABINET.
7. ADJUST THE LOCATION OF SUPPLY AIR DIFFUSER TO MATCH NEW REFLECTED CEILING PLAN AND LIGHTING FIXTURE. EXTEND SUPPLY BRANCH DUCT IF NEEDED.

1 **1ST LEVEL MECHANICAL PLAN - AREA C**
SCALE: 1/8" = 1'-0"

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FOOD SERVICE
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OTHER
CONSULTANT NAME
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LEAF ENGINEERS

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
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ENGINEER
2/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL MECHANICAL PLAN - AREA C

M-101C

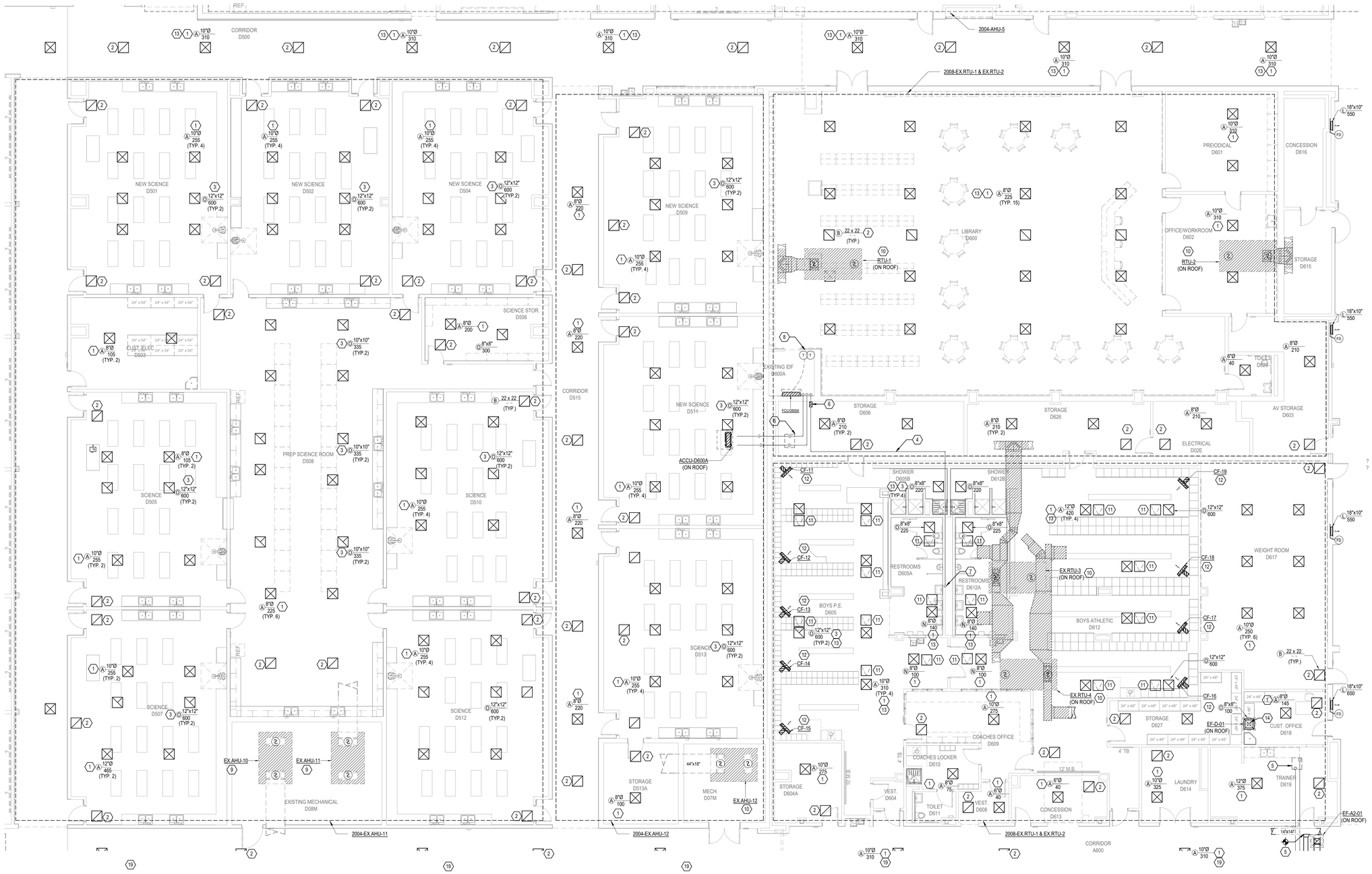
0"
1"

1ST LEVEL MECHANICAL PLAN - AREA D
M-101D
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYED NOTES:

1. REMOVE EXISTING LAY-IN SUPPLY AIR DIFFUSER AND ASSOCIATED FLEX DUCT; AND PROVIDE NEW DIFFUSER WITH NEW FLEX DUCT AND CONNECT TO EXISTING BRANCH DUCT. PRIOR TO BID, VERIFY AIR DIFFUSER TYPE OF CONNECTION AND SIZES. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
2. REMOVE EXISTING LAY-IN RETURN AIR DIFFUSER; AND PROVIDE NEW RETURN AIR GRILLE SIMILAR TO EXISTING, IF RETURN DIFFUSER HAS RETURN AIR BOOT, KEEP THE EXISTING BOOT AND RE-CONNECT TO NEW GRILLE. PRIOR TO BID, VERIFY RETURN GRILLE NECKSIZE TO MATCH THE EXISTING SIZE. COORDINATE WITH NEW REFLECTED CEILING PLAN.
3. REMOVE EXISTING EXHAUST AIR GRILLE; AND PROVIDE NEW GRILLE SIMILAR TO EXISTING DUCT CONNECTION TYPE AND NECKSIZE, MATCH EXISTING NECK SIZE AND TYPE OF CONNECTION. PRIOR TO BID, VERIFY AIR GRILLE TYPE OF CONNECTION. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
4. REFRIGERANT LINES; SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE SNAP-N' SHIELD RERIGERANT PIPING SUPPORT. REFER TO DETAIL DRAWING.
5. LIQUID AND SUCTION REFRIGERANT PIPES TO CONDENSING UNIT ON ROOF; REFER TO SHEET M-301. SIZE PER MANUFACTURERS RECOMMENDATION.
6. CONDENSATE PUMP LOCATION ABOVE CEILING; COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE LOCATION.
7. 3/4"Ø CONDENSATE DRAIN DOWN TO LAVATORY TAILPIECE PIPE. COORDINATE WINT PLUMBING CONTRACTOR FOR LOCATION.
8. PROVIDE SECONDARY THERMOSTAT WITH TEMPERATURE DISPLAY; REFER TO SEQUENCE OF OPERATION SPECIFICATIONS.
9. EXISTING AHU TO REMAIN. PROVIDE DUCT MOUNTED IONIZATION (SMOKE) DETECTOR IN SUPPLY AIR DUCT AND RETURN AIR INLET SPECIFIED AND INSTALLED IN DIVISION 28.
10. EXISTING ROOF TOP UNIT AND ASSOCIATED DUCTWORK TO REMAIN. PROVIDE DUCT MOUNTED IONIZATION (SMOKE) DETECTOR IN SUPPLY AIR DUCT AND RETURN AIR INLET SPECIFIED AND INSTALLED IN DIVISION 28.
11. PROVIDE NEW 2'x2" ACCESS PANEL AND INSTALL APPROPIATE LOCATION. COORDINATION LOCATION WITH ARCHITECT.
12. CIRCULATING FAN INSTALL WITH CEILING BRACKET AND RIGID STEEL SUPPORT TO JOIST. COORDINATE FAN LOCATION NOT TO OBSTRUCT WITH DOOR LOCKER CABINET.
13. ADJUST THE LOCATION OF SUPPLY AIR DIFFUSER TO MATCH NEW REFLECTED CEILING PLAN AND LIGHTING FIXTURE. EXTEND SUPPLY BRANCH DUCT IF NEEDED.
14. 8"x8" EXHAUST DUCT UP ON ROOF.



1 **1ST LEVEL MECHANICAL PLAN - AREA D**
SCALE: 1/8" = 1'-0"

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CONSULTANT NAME
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STRUCTURAL
CONSULTANT NAME
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MEP
CONSULTANT NAME
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ACOUSTIC
CONSULTANT NAME
T 000-000-0000
FIRE/LIFE
CONSULTANT NAME
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FOOD SERVICE
CONSULTANT NAME
T 000-000-0000
OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER
2/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL MECHANICAL PLAN - AREA D

M-101D

0"
1"

1ST LEVEL MECHANICAL PLAN - AREA E
M-101E
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYED NOTES:

1. REMOVE EXISTING LAY-IN SUPPLY AIR DIFFUSER AND ASSOCIATED FLEX DUCT; AND PROVIDE NEW DIFFUSER WITH NEW FLEX DUCT AND CONNECT TO EXISTING BRANCH DUCT. PRIOR TO BID, VERIFY AIR DIFFUSER TYPE OF CONNECTION AND SIZES. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
2. REMOVE EXISTING LAY-IN RETURN AIR DIFFUSER; AND PROVIDE NEW RETURN AIR GRILLE SIMILAR TO EXISTING, IF RETURN DIFFUSER HAS RETURN AIR BOOT, KEEP THE EXISTING BOOT AND RE-CONNECT TO NEW GRILLE. PRIOR TO BID, VERIFY RETURN GRILLE NECKSIZE TO MATCH THE EXISTING SIZE. COORDINATE WITH NEW REFLECTED CEILING PLAN.
3. REMOVE EXISTING EXHAUST AIR GRILLE; AND PROVIDE NEW GRILLE SIMILAR TO EXISTING DUCT CONNECTION TYPE AND NECKSIZE, MATCH EXISTING NECK SIZE AND TYPE OF CONNECTION. PRIOR TO BID, VERIFY AIR GRILLE TYPE OF CONNECTION. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
4. REFRIGERANT LINES; SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE SNAP-N' SHIELD RERIGERANT PIPING SUPPORT. REFER TO DETAIL DRAWING.
5. LIQUID AND SUCTION REFRIGERANT PIPES TO CONDENSING UNIT ON ROOF; REFER TO SHEET M-301. SIZE PER MANUFACTURERS RECOMMENDATION.
6. CONDENSATE PUMP LOCATION ABOVE CEILING; COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE LOCATION.
7. 3/4"Ø CONDENSATE DRAIN DOWN TO EXISTING FLOOR DRAIN INSIDE MECH. ROOM. VERIFY EXACT LOCATION.
8. PROVIDE TEMPORARY CHEMICAL TREATMENT FOR ARNOLD MS CHILLED WATER SYSTEM, WILL BE SEPARATED FROM CY-FAIR HS DURING SUMMER 2025. TAP TEMPERARY CHEMICAL TREATMENT TO CHILLED WATER SYSTEM; AND REMOVE ONCE THIS IS NOT NEEDED ANYMORE.
9. EXISTING BOILER TO REMAIN.
10. 3/4"Ø CONDENSATE DRAIN DOWN TO TAILPIECE PIPE. REFER TO PLUMBING DRAWING FOR EXACT DRAIN LOCATIONS AND DETAILS.
11. PROVIDE SECONDARY THERMOSTAT WITH TEMPERATURE DISPLAY; REFER TO SEQUENCE OF OPERATION SPECIFICATIONS.
12. EXISTING AHU TO REMAIN. PROVIDE DUCT MOUNTED IONIZATION (SMOKE) DETECTOR IN SUPPLY AIR DUCT AND RETURN AIR INLET SPECIFIED AND INSTALLED IN DIVISION 28.

1 1ST LEVEL MECHANICAL PLAN - AREA E
SCALE: 1/8" = 1'-0"

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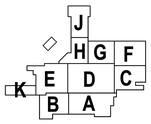
KEY PLAN
NORTH: PLAN TRUE



2/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL MECHANICAL PLAN - AREA E

M-101E

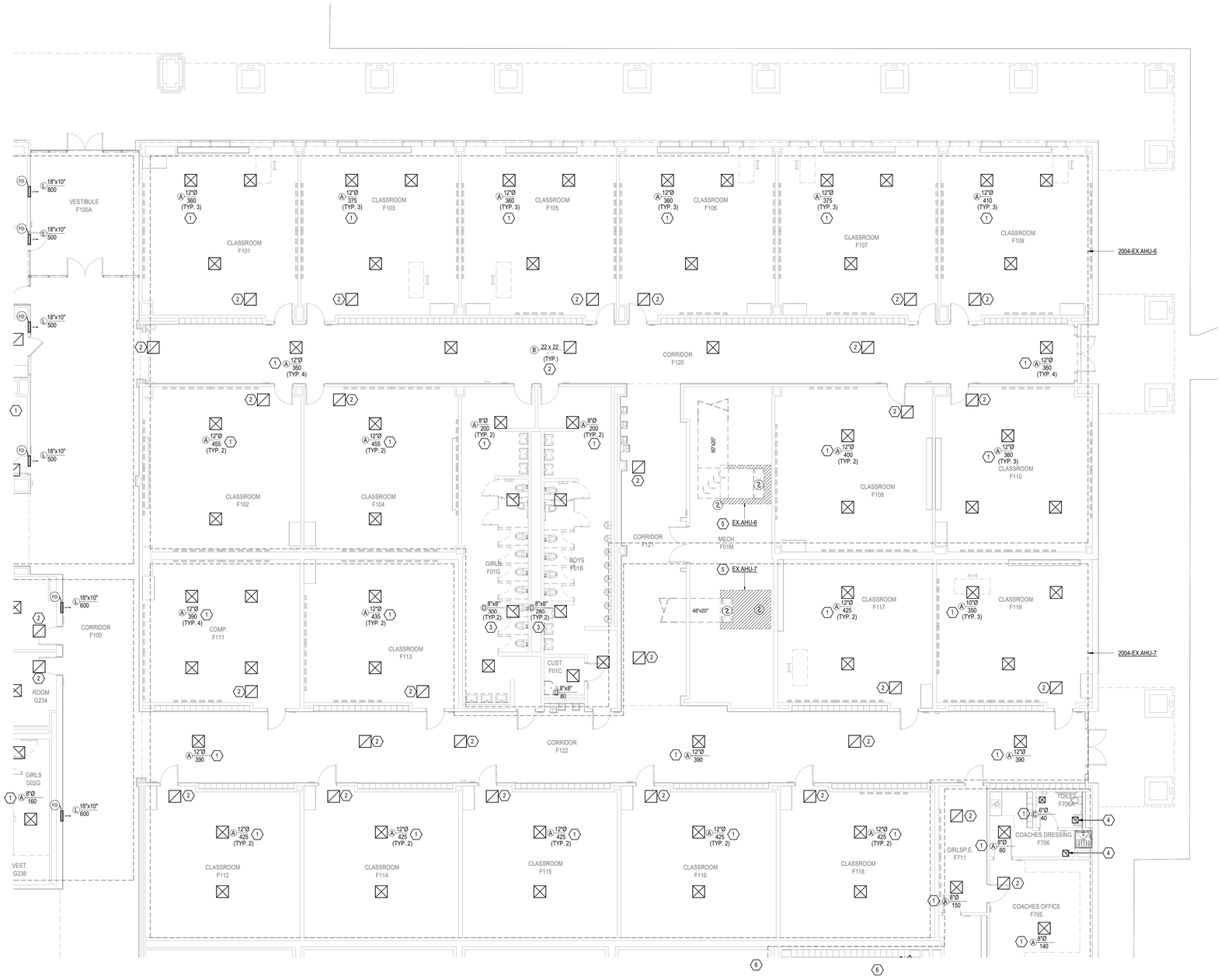
0"
1"

1ST LEVEL MECHANICAL PLAN - AREA F
M-101F
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYED NOTES:

1. REMOVE EXISTING LAY-IN SUPPLY AIR DIFFUSER AND ASSOCIATED FLEX DUCT; AND PROVIDE NEW DIFFUSER WITH NEW FLEX DUCT AND CONNECT TO EXISTING BRANCH DUCT. PRIOR TO BID, VERIFY AIR DIFFUSER TYPE OF CONNECTION AND SIZES. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
2. REMOVE EXISTING LAY-IN RETURN AIR DIFFUSER; AND PROVIDE NEW RETURN AIR GRILLE SIMILAR TO EXISTING, IF RETURN DIFFUSER HAS RETURN AIR BOOT, KEEP THE EXISTING BOOT AND RE-CONNECT TO NEW GRILLE. PRIOR TO BID, VERIFY RETURN GRILLE NECKSIZE TO MATCH THE EXISTING SIZE. COORDINATE WITH NEW REFLECTED CEILING PLAN.
3. REMOVE EXISTING EXHAUST AIR GRILLE; AND PROVIDE NEW GRILLE SIMILAR TO EXISTING DUCT CONNECTION TYPE AND NECKSIZE. MATCH EXISTING NECK SIZE AND TYPE OF CONNECTION. PRIOR TO BID, VERIFY AIR GRILLE TYPE OF CONNECTION. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
4. PROVIDE NEW EXHAUST FAN GRILLE, SIMILAR EXISTING GREENHECK RCC-7 OR EQUIVALENT.
5. EXISTING AHU TO REMAIN. PROVIDE DUCT MOUNTED IONIZATION (SMOKE) DETECTOR IN SUPPLY AIR DUCT AND RETURN AIR INLET SPECIFIED AND INSTALLED IN DIVISION 28.



1 1ST LEVEL MECHANICAL PLAN - AREA F
SCALE: 1/8" = 1'-0"

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MEP/FP CONSULTANT NAME T 000-000-0000
ACOUSTIC CONSULTANT NAME T 000-000-0000
FIRE/LIFE SAFETY CONSULTANT NAME T 000-000-0000
FOOD SERVICE CONSULTANT NAME T 000-000-0000
CONSULTANT NAME T 000-000-0000
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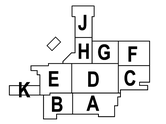

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
2/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date
	ISSUE FOR PROPOSAL	

BUILDING NUMBER

1ST LEVEL MECHANICAL PLAN - AREA F

M-101F

0"
1"

1ST LEVEL MECHANICAL PLAN - AREA G
M-101G
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYED NOTES:

1. REMOVE EXISTING LAY-IN SUPPLY AIR DIFFUSER AND ASSOCIATED FLEX DUCT; AND PROVIDE NEW DIFFUSER WITH NEW FLEX DUCT AND CONNECT TO EXISTING BRANCH DUCT. PRIOR TO BID, VERIFY AIR DIFFUSER TYPE OF CONNECTION AND SIZES. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
2. REMOVE EXISTING LAY-IN RETURN AIR DIFFUSER; AND PROVIDE NEW RETURN AIR GRILLE SIMILAR TO EXISTING, IF RETURN DIFFUSER HAS RETURN AIR BOOT, KEEP THE EXISTING BOOT AND RE-CONNECT TO NEW GRILLE. PRIOR TO BID, VERIFY RETURN GRILLE NECKSIZE TO MATCH THE EXISTING SIZE. COORDINATE WITH NEW REFLECTED CEILING PLAN.
3. REMOVE EXISTING EXHAUST AIR GRILLE; AND PROVIDE NEW GRILLE SIMILAR TO EXISTING DUCT CONNECTION TYPE AND NECKSIZE, MATCH EXISTING NECK SIZE AND TYPE OF CONNECTION. PRIOR TO BID, VERIFY AIR GRILLE TYPE OF CONNECTION. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
4. RELOCATE AIR DEVICE TO MATCH NEW REFLECTED CEILING PLAN AND ADDITIONAL WALL. EXTEND BRANCH DUCT AND PROVIDE NEW FLEX DUCT IF NEEDED.
5. RELOCATE AIR DEVICE TO MATCH NEW REFLECTED CEILING PLAN AND ADDITIONAL WALL.
6. RELOCATE EXISTING THERMOSTAT TO DIRECTOR G224.
7. REFRIGERANT LINES; SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE SNAP-N' SHIELD RERIGERANT PIPING SUPPORT. REFER TO DETAIL DRAWING.
8. LIQUID AND SUCTION REFRIGERANT PIPES TO CONDENSING UNIT ON ROOF; REFER TO SHEET M-301. SIZE PER MANUFACTURERS RECOMMENDATION.
9. CONDENSATE PUMP LOCATION ABOVE CEILING; COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE LOCATION.
10. 3/4"Ø CONDENSATE DRAIN DOWN TO EXISTING FLOOR DRAIN. REFER TO PLUMBING DRAWING FOR EXACT DRAIN LOCATIONS AND DETAILS.
11. EXISTING AHU TO REMAIN. PROVIDE DUCT MOUNTED IONIZATION (SMOKE) DETECTOR IN SUPPLY AIR DUCT AND RETURN AIR INLET SPECIFIED AND INSTALLED IN DIVISION 28.
12. PROVIDE SECONDARY THERMOSTAT WITH TEMPERATURE DISPLAY; REFER TO SEQUENCE OF OPERATION SPECIFICATIONS.
13. ADJUST THE LOCATION OF SUPPLY AIR DIFFUSER TO MATCH NEW REFLECTED CEILING PLAN AND LIGHTING FIXTURE. EXTEND SUPPLY BRANCH DUCT IF NEEDED.
14. DISCONNECT EXISTING EXHAUST DUCT HOOD VENTS AND RECONNECT TO RANGE HOOD AND COMPLETELY SEAL THE EXHAUST DUCT, COORDINATED RANGE HOOD LOCATION WITH ARCHITECT.

1 **1ST LEVEL MECHANICAL PLAN - AREA G**
SCALE: 1/8" = 1'-0"

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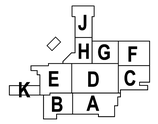
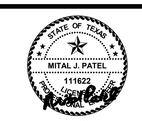


KEY PLAN
NORTH: PLAN TRUE



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F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

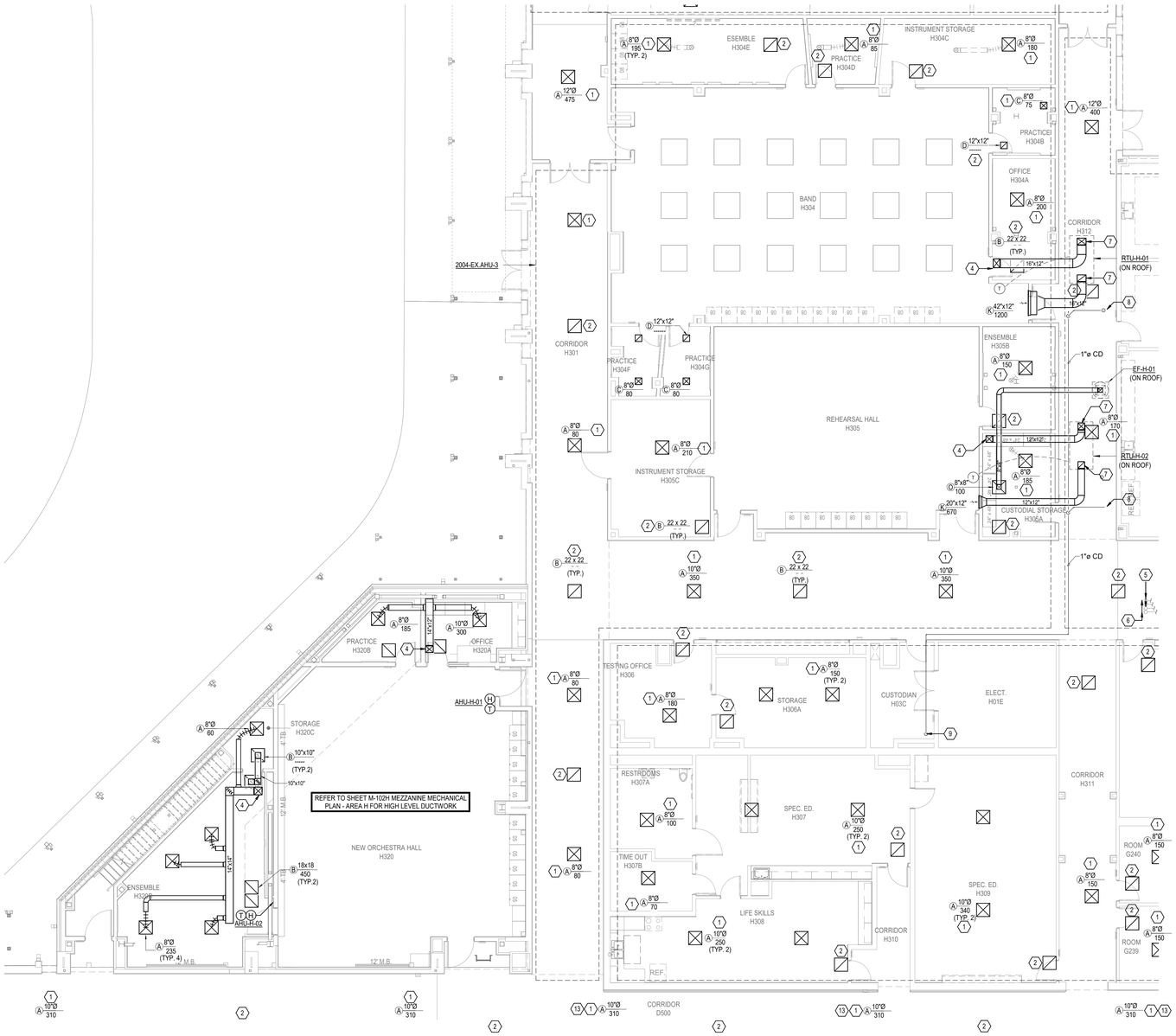
1ST LEVEL MECHANICAL PLAN - AREA G

M-101G

ISSUE FOR PROPOSAL

0"
1"

1ST LEVEL MECHANICAL PLAN - AREA H
M-101H
FOR BLUEBEAM LABELING:OOR:



KEYED NOTES:

1. REMOVE EXISTING LAY-IN SUPPLY AIR DIFFUSER AND ASSOCIATED FLEX DUCT; AND PROVIDE NEW DIFFUSER WITH NEW FLEX DUCT AND CONNECT TO EXISTING BRANCH DUCT. PRIOR TO BID, VERIFY AIR DIFFUSER TYPE OF CONNECTION AND SIZES. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
2. REMOVE EXISTING LAY-IN RETURN AIR DIFFUSER; AND PROVIDE NEW RETURN AIR GRILLE SIMILAR TO EXISTING, IF RETURN DIFFUSER HAS RETURN AIR BOOT, KEEP THE EXISTING BOOT AND RE-CONNECT TO NEW GRILLE. PRIOR TO BID, VERIFY RETURN GRILLE NECKSIZE TO MATCH THE EXISTING SIZE. COORDINATE WITH NEW REFLECTED CEILING PLAN.
3. REMOVE EXISTING EXHAUST AIR GRILLE; AND PROVIDE NEW GRILLE SIMILAR TO EXISTING DUCT CONNECTION TYPE AND NECKSIZE, MATCH EXISTING NECK SIZE AND TYPE OF CONNECTION. PRIOR TO BID, VERIFY AIR GRILLE TYPE OF CONNECTION. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
4. ROUTE SUPPLY AIR DUCT UP TO HIGH LEVEL. REFER TO SHEET M-102H FOR CONTINUATION.
5. EXISTING CHILLED WATER AND HEATING WATER PIPES UP TO ROOF.
6. TAP NEW CHILLED WATER AND HEATING WATER PIPES TO EXISTING PIPES.
7. SUPPLY AND RETURN AIR DUCT UP TO HYDRONIC ROOF TOP UNIT ON ROOF. REFER TO MECHANICAL ROOF PLAN SHEET M-301.
8. 1" CONDENSATE PIPE ROUTE UP ON ROOF. REFER TO MECHANICAL ROOF PLAN SHEET M-301.
9. ROUTE 1" CONDENSATE PIPE DOWN TO NEAREST FLOOR DRAIN.

1 **1ST LEVEL MECHANICAL PLAN - AREA H**
SCALE: 1/8" = 1'-0"

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KEY PLAN
NORTH: PLAN TRUE

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LICENSED PROFESSIONAL ENGINEER
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F-18672

CLIENT
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DATE 2/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL MECHANICAL PLAN - AREA H

M-101H

0"
1"

1ST LEVEL MECHANICAL PLAN - AREA J
M-101J
FOR BLUEBEAM LABELING:OOR:

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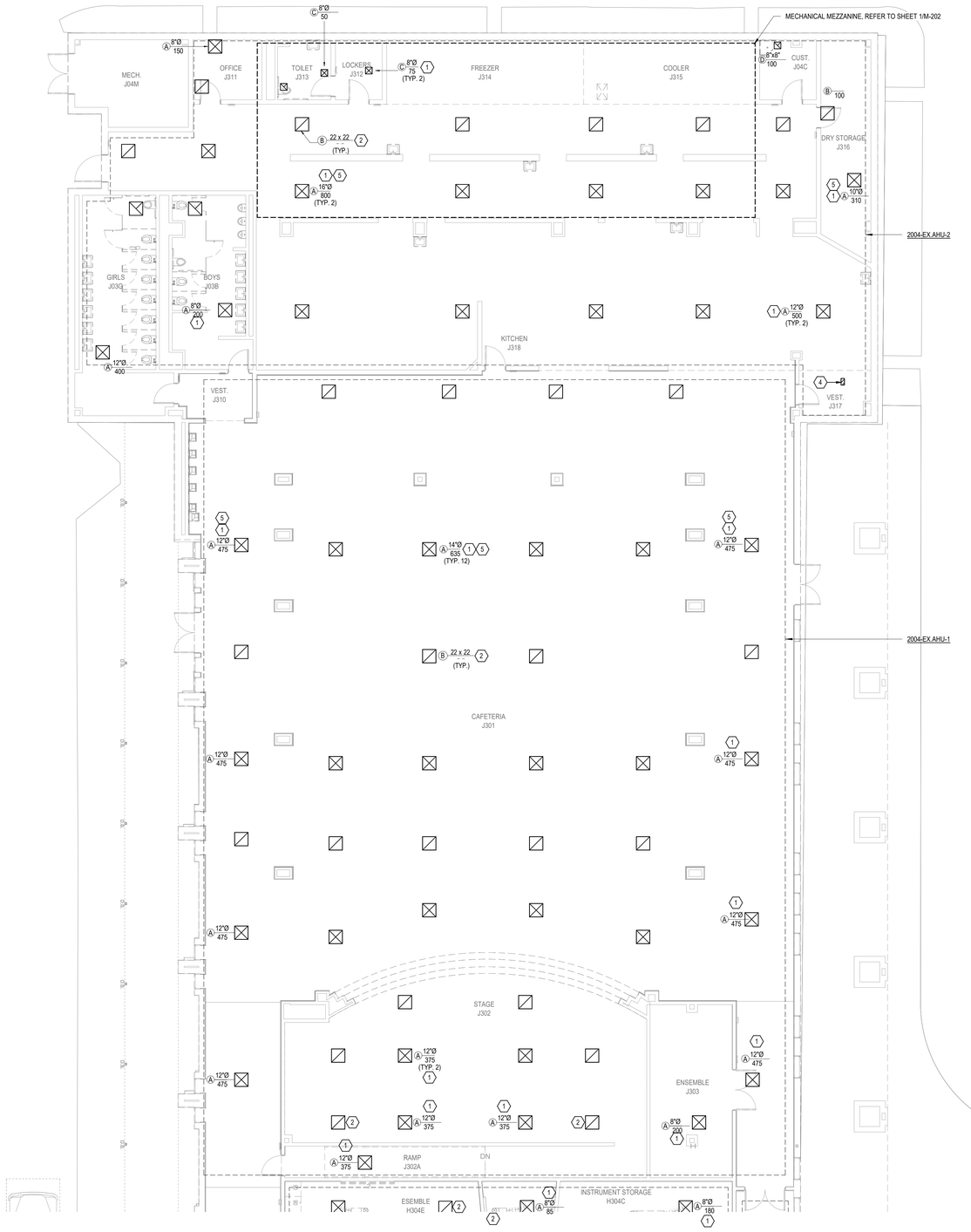

KEYED NOTES:

1. REMOVE EXISTING LAY-IN SUPPLY AIR DIFFUSER AND ASSOCIATED FLEX DUCT; AND PROVIDE NEW DIFFUSER WITH NEW FLEX DUCT AND CONNECT TO EXISTING BRANCH DUCT. PRIOR TO BID, VERIFY AIR DIFFUSER TYPE OF CONNECTION AND SIZES. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
2. REMOVE EXISTING LAY-IN RETURN AIR DIFFUSER; AND PROVIDE NEW RETURN AIR GRILLE SIMILAR TO EXISTING, IF RETURN DIFFUSER HAS RETURN AIR BOOT, KEEP THE EXISTING BOOT AND RE-CONNECT TO NEW GRILLE. PRIOR TO BID, VERIFY RETURN GRILLE NECKSIZE TO MATCH THE EXISTING SIZE. COORDINATE WITH NEW REFLECTED CEILING PLAN.
3. REMOVE EXISTING EXHAUST AIR GRILLE; AND PROVIDE NEW GRILLE SIMILAR TO EXISTING DUCT CONNECTION TYPE AND NECKSIZE. MATCH EXISTING NECK SIZE AND TYPE OF CONNECTION. PRIOR TO ORDER, VERIFY AIR GRILLE TYPE OF CONNECTION. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
4. WATER METER, VERIFY EXACT LOCATION WITH PLUMBING CONTRACTOR.
5. ADJUST THE LOCATION OF SUPPLY AIR DIFFUSER TO MATCH NEW REFLECTED CEILING PLAN AND LIGHTING FIXTURE. EXTEND SUPPLY BRANCH DUCT IF NEEDED.

1 **1ST LEVEL MECHANICAL PLAN - AREA J**
SCALE: 1/8" = 1'-0"

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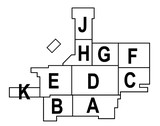

KEY PLAN
NORTH: PLAN TRUE

2/17/2025
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F-10672

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Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

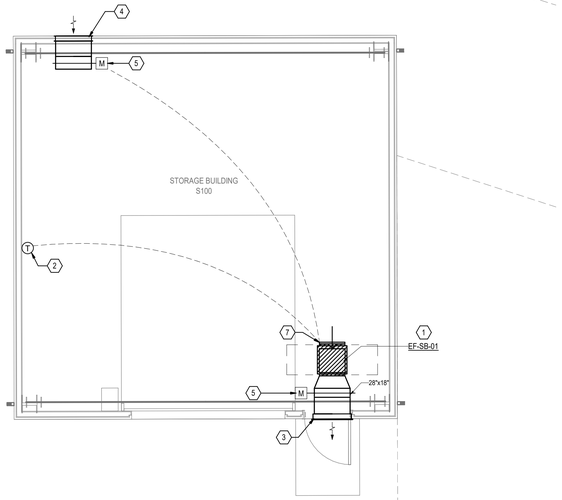
1ST LEVEL MECHANICAL PLAN - AREA J

M-101J

0"
1"

1ST LEVEL MECHANICAL PLAN - AREA K
M-101K
FOR BLUEBEAM LABELING/OCR:

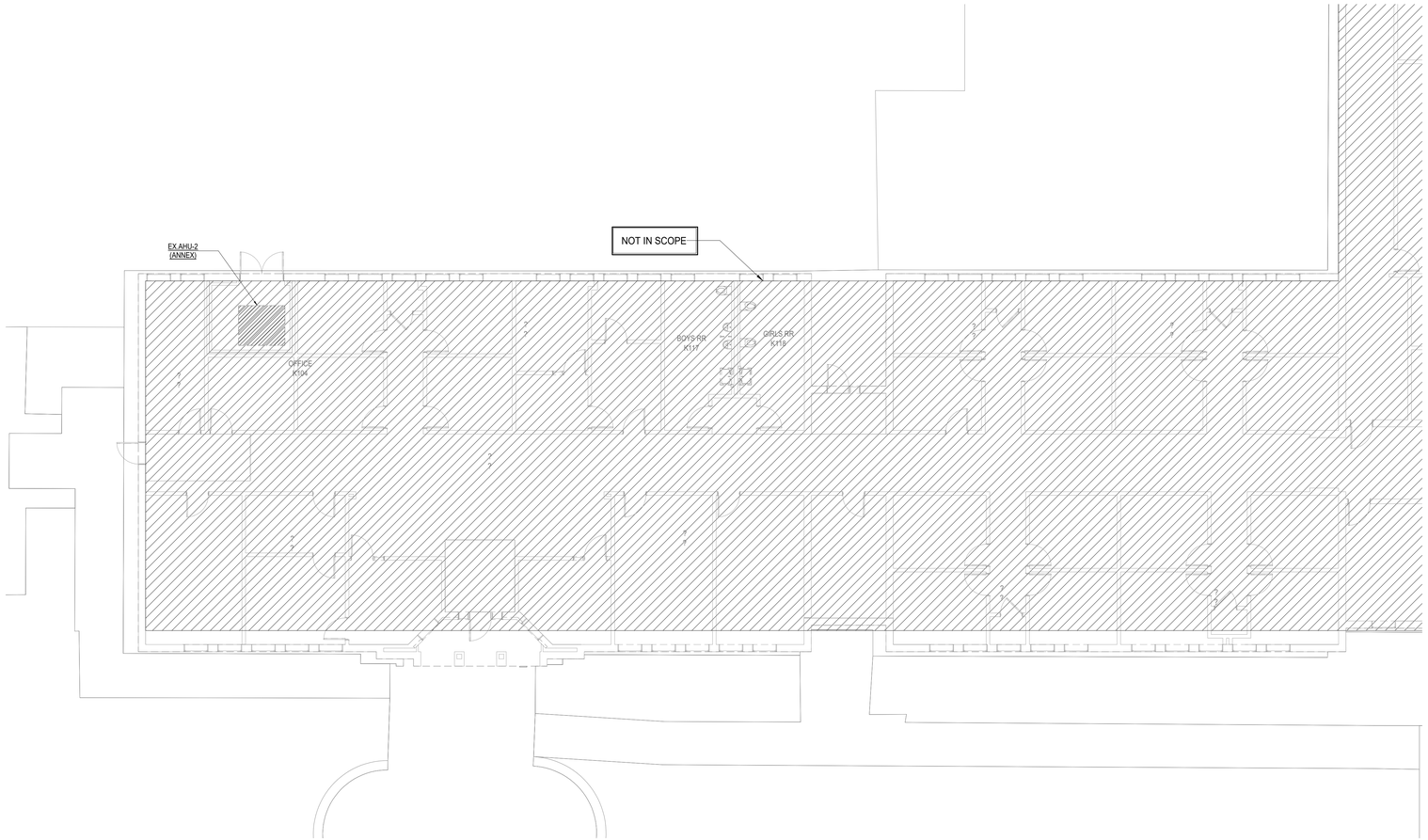
ISSUE FOR PROPOSAL



2 MECHANICAL PLAN - STORAGE BLDG.
SCALE: 1/4" = 1'-0"

KEYED NOTES:

1. IN-LINE EXHAUST FAN SUSPENDED FROM STRUCTURE WITH ALL THREADED RODS ON EACH CORNER.
2. PROVIDE HUMIDITY SENSOR, NO BAS CONNECTION.
3. 28"x18" EXHAUST AIR LOUVER. REFER TO ARCHITECTURAL DRAWING AND SPECIFICATION FOR FINAL FINISH AND LOCATION.
4. 28"x18" INTAKE AIR LOUVER. REFER TO ARCHITECTURAL DRAWING AND SPECIFICATION FOR FINAL FINISH AND LOCATION.
5. MOTORIZED DAMPER TO INTERLOCK WITH ASSOCIATED UNIT. MOTORIZED DAMPER SHALL BE FULLY OPENED WHEN THE ASSOCIATED UNIT IS ENERGIZED, AND FULLY CLOSED WHEN IT IS DE-ENERGIZED.
6. MOTORIZED DAMPER TO INTERLOCK WITH EF-BS-01. MOTORIZED DAMPER SHALL BE FULLY OPENED WHEN THE EF-BS-01 IS ENERGIZED, AND FULLY CLOSED WHEN IT IS DE-ENERGIZED.
7. PROVIDE ALUMINUM WIRE MESH AT OPEN END.



1 1ST LEVEL MECHANICAL PLAN - AREA K
SCALE: 1/8" = 1'-0"

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STRUCTURAL
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MEP
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ACOUSTIC
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TECHNOLOGY
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FOOD SERVICE
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CONSULTANT NAME
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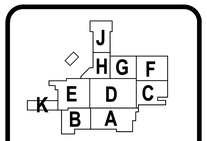

KEY PLAN
NORTH: PLAN TRUE

2/17/2025
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F-10672

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL MECHANICAL PLAN - AREA K

M-101K

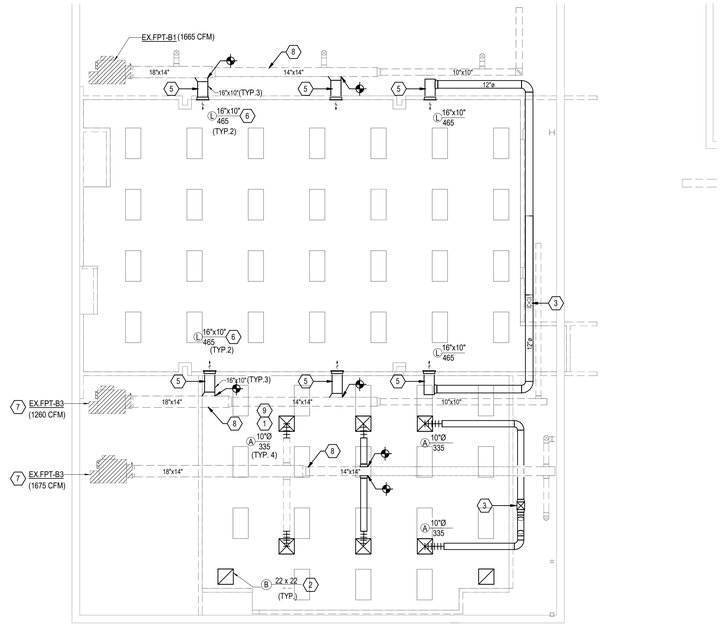
0"
1"

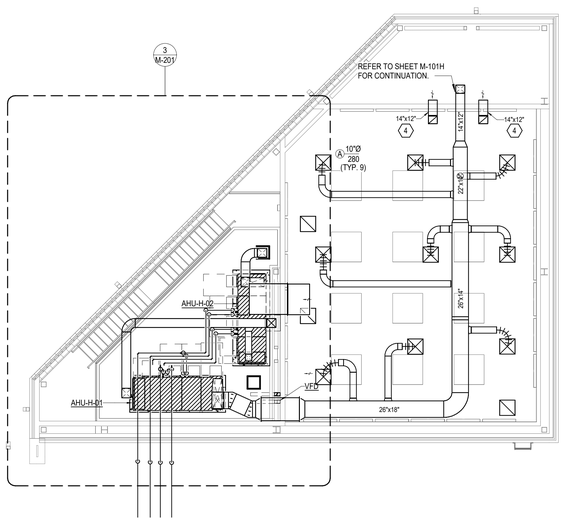
MEZZANINE MECHANICAL PLAN - AREA H
M-102H
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYED NOTES:

1. REMOVE EXISTING LAY-IN SUPPLY AIR DIFFUSER AND ASSOCIATED FLEX DUCT; AND PROVIDE NEW DIFFUSER WITH NEW FLEX DUCT AND CONNECT TO EXISTING BRANCH DUCT. PRIOR TO BID, VERIFY AIR DIFFUSER TYPE OF CONNECTION AND SIZES. COORDINATE WITH NEW REFLECTED CEILING PLAN AND RE-BALANCE AIR DEVICE AIR FLOW CFM AS SHOWN.
2. REMOVE EXISTING LAY-IN RETURN AIR DIFFUSER; AND PROVIDE NEW RETURN AIR GRILLE SIMILAR TO EXISTING, IF RETURN DIFFUSER HAS RETURN AIR BOOT, KEEP THE EXISTING BOOT AND RE-CONNECT TO NEW GRILLE. PRIOR TO BID, VERIFY RETURN GRILLE NECKSIZE TO MATCH THE EXISTING SIZE. COORDINATE WITH NEW REFLECTED CEILING PLAN.
3. ROUTE SUPPLY AIR DUCT DOWN TO FIRST FLOOR. REFER TO SHEET M-101H FOR CONTINUATION.
4. PROVIDE TRANSFER AIR DUCT.
5. PROVIDE NEW BRANCH SUPPLY DUCT.
6. PROVIDE NEW SIDE WALL GRILLE, ENLARGE EXISTING WALL OPENING TO FIT NEW GRILLE.
7. EXISTING FAN POWERED TERMINAL BOX TO REMAIN. RE-BALANCE EXISTING TERMINAL BOX AS SHOWN.
8. EXISTING DUCTWORK TO REMAIN.
9. ADJUST THE LOCATION OF SUPPLY AIR DIFFUSER TO MATCH NEW REFLECTED CEILING PLAN AND LIGHTING FIXTURE. EXTEND SUPPLY BRANCH DUCT IF NEEDED.





1 MEZZANINE MECHANICAL PLAN - AREA H
SCALE: 1/8" = 1'-0"

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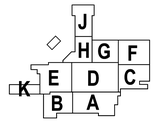

KEY PLAN
NORTH: PLAN TRUE

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F-10672

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Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023
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No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

MEZZANINE MECHANICAL PLAN - AREA H

M-102H

ENLARGED MECHANICAL PLAN

M-201

FOR BLUEBEAM LABELING/OCR:

0"

1"

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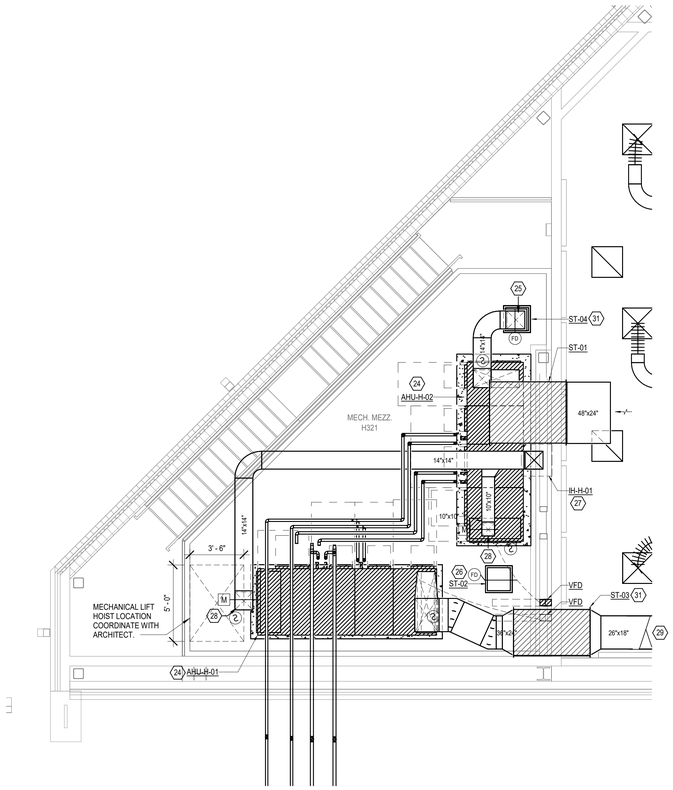
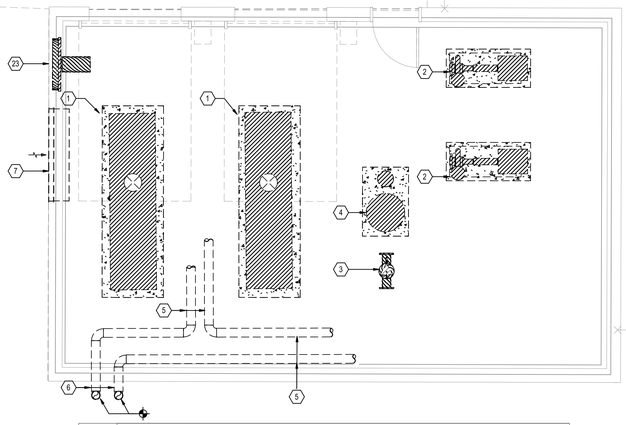


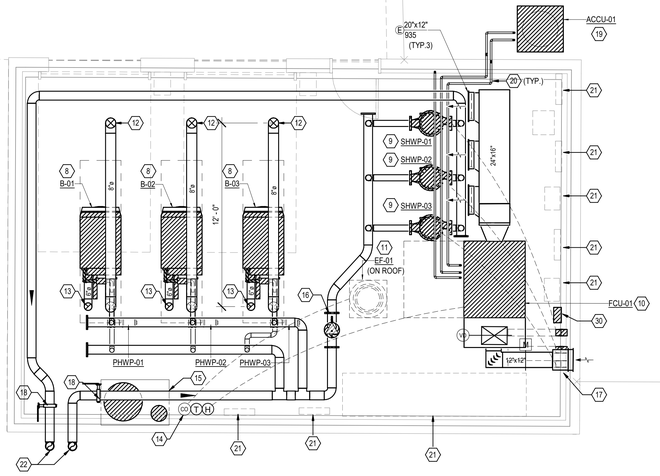
KEYED NOTES:

1. REMOVE EXISTING BOILER AND ASSOCIATED HEATING WATER PIPES, VALVES, FLUE PIPE AND EXISTING CONCRETE PAD. PATCH AND SEAL EXISTING ROOF OPENING OF FLUE PIPE.
2. REMOVE EXISTING HOT WATER PUMP AND ASSOCITED HEATING WATER PIPE, VALVES, EXISTING CONCRETE PAD.
3. REMOVE EXISTING SUSPENDED AIR SEPARATOR AND ASSOCIATED PIPE.
4. REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPE, VALVES AND EXISTING CONCRETE PAD.
5. REMOVE ALL EXISTING HOT WATER PIPES INSIDE THE EXISTING BOILER ROOM AND ASSOCIATED PIPE SUPPORTS.
6. REMOVE EXISTING EXPOSED VERTICAL HOT WATER ABOVE THE GROUND LEVEL AND PROVIDE NEW.
7. REMOVE EXISTING 78"x96" WALL LOUVER AND PATCH THE EXISTING WALL WITH SIMILAR WALL MATERIAL.
8. PROVIDE NEW BOILER WITH 6" THICK NEW CONCRETE PAD WITH MINIMUM 6" WIDER IN ALL DIRECTIONS. PROVIDE CONDENSATE TRAP TO NEAREST EXISTING FLOOR DRAIN. REFER TO PLUMBING DRAWING FOR LOCATION.
9. PROVIDE NEW HOT WATER PUMP WITH 6" THICK NEW CONCRETE PAD WITH MINIMUM 6" WIDER IN ALL DIRECTIONS. PROVIDE DRAIN PIPE TO NEAREST EXISTING FLOOR DRAIN. REFER TO PLUMBING DRAWING FOR LOCATION.
10. FAN COIL UNIT SUSPENDED FROM STRUCTURE. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. ALL DUCTWORK,PIPING SHALL BE INSTALLED SUCH AS TO AVOID FAN COIL UNIT ACCESS CLEARANCE. PROVIDE AUXILIARY DRAIN PAN WITH FLOAT SWITCH. PROVIDE METAL MIXING PLENUM BOX WITH 20"x14" RETURN AIR OPENING AND VOLUME DAMPER AND OUTSIDE AIR DUCT AS SHOWN. PROVIDE DUCT MOUNTED IONIZATION (SMOKE) DETECTOR SPECIFIED AND INSTALLED IN DIVISION 28.
11. 16"x16" EXHAUST DUCT UP TO EXHAUST FAN EF-01 ON ROOF; TRANSITION TO FAN INLET. END DUCT AT 6" BELOW STRUCTURE WITH ALUMINUM WIRE SCREEN.
12. 8"Ø COMBUSTION INTAKE SINGLE WALL GALVANIZED PIPE UP TO ROOF. AIR INTAKE TERMINATION SHALL GOOSE NECK DOWN WITH BIRD SCREEN INSTALLED AT INLET OPENING ABOVE ROOF. PROVIDE WITH 2" THICK, INSTALLED R-8, FIBERGLASS INSULATION FOR CONDENSATION PREVENTION.
13. 6"Ø EXHAUST FLUE UP TO ROOF. REFER TO DETAIL DRAWING.
14. CARBON MONOXIDE DETECTION SYSTEM SHALL BE MADE BY U.S DRAFT, MODEL: CGM-505 WITH EXPANSION MODULE AND PROVIDED BY BAS. REFER TO SEQUENCE OF OPERATION. SENSOR SHALL BE CALIBRATED EVERY 18 MONTHS AND A RECORD OF CALIBRATION SHALL BE POSTED IN A CONSPICUOUS PLACE.
15. HEATING WATER EXPANSION AND CHEMICAL TREATMENT TANKS.
16. COMBINATION DIRT/AIR SEPARATOR SUSPENDED FROM STRUCTURE.
17. 16"x16" INTAKE AIR LOUVER. REFER TO ARCHITECTURAL DRAWING AND SPECIFICATION FOR FINAL FINISH AND LOCATION.
18. PROVIDE ISOLATION VALVE.
19. NEW AIR COOLED CONDENSING UNIT WITH CONCRETE HOUSEKEEPING PAD. ROVIDE ALUMINUM JACKET ON ALL OUTDOOR LIQUID AND SUCTION REFRIGERANT LINES.
20. REFRIGERANT LINES; SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE SNAP-N' SHIELD RERIGERANT PIPING SUPPORT. VERIFY REFRIGERANT CIRCUITS FOR REFRIGERANT LINES REQUIRED. REFER TO DETAIL DRAWING.
21. EXISTING ELECTRICAL PANEL.
22. PROVIDE METAL CLADDING ON OUTDOOR EXPOSED HOT WATER PIPES.
23. REMOVE EXISTING WALL EXHAUST FAN AND PATCH WALL OPENING WITH SIMILAR MATERIAL.
24. PROVIDE 6" THICK CONCRETE PAD WITH MINIMUM 6" WIDER IN ALL DIRECTION AND 1-1/4" CONDENSATE PIPE TO NEAREST FLOOR DRAIN. PROVIDE DUCT MOUNTED IONIZATION (SMOKE) DETECTOR IN SUPPLY AIR DUCT AND RETURN AIR INLET SPECIFIED AND INSTALLED IN DIVISION 28.
25. 14"x14" SUPPLY AIR DUCT DOWN TO FIRST FLOOR THRU THE SLAB. PROVIDE FIRE DAMPER AT FLOOR PENETRATION. REFER TO M-101H FOR CONTINUATION.
26. 18"x18" LINED RETURN AIR DUCT WITH SOUND TRAP DOWN TO FIRST FLOOR. PROVIDE FIRE DAMPER AT FLOOR PENETRATION.
27. 14"x14" OUTSIDE AIR DUCT UP TO INTAKE HOOD IH-H-01 ON ROOF. TRANSITION TO UNIT INLET.
28. OUTSIDE AIR DUCT TO DROP DOWN. PROVIDE ALUMINUM BIRD SCREEN AT OPEN ENDS.
29. CHILLED WATER AND HEATING WATER PIPES; REFER TO MECHANICAL ROOF PLAN SHEET M-301 FOR CONTINUATION.
30. 26"x18" SUPPLY DUCT ROUTE TO HIGH LEVEL. REFER TO SHEET M-102H FOR CONTINUATION.
31. ELECTRIC METER, VERIFY EXACT LOCATION WITH ELECTRICAL CONTRACTOR.
32. PROVIDE TRANSITION FITTINGS TO SOUND ATTENUATOR.

3 ENLARGED MECHANICAL PLAN - MECH. MEZZ. H321
SCALE: 1/4" = 1'-0"



1 ENLARGED MECHANICAL DEMO PLAN - BOILER ROOM
SCALE: 1/4" = 1'-0"



2 ENLARGE MECHANICAL PLAN - BOILER ROOM
SCALE: 1/4" = 1'-0"

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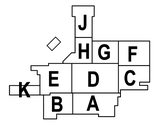

KEY PLAN
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F-18672

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DATE	PROJECT NUMBER
2/17/2025	220023

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No.	Description	Date

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BUILDING NUMBER

ENLARGED MECHANICAL PLAN

M-201

ENLARGED MECHANICAL PLAN

M-202

FOR BLUEBEAM LABELING/OCR:

0"

1"

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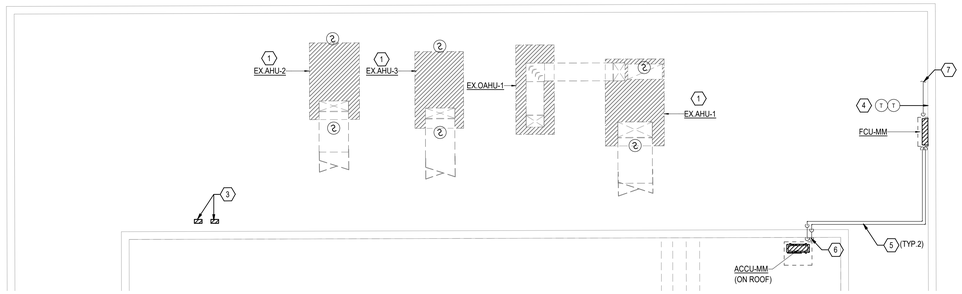
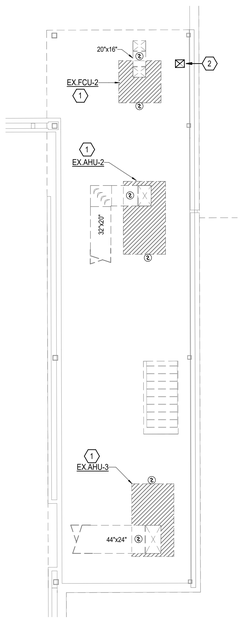


1 MEZZANINE ENLARGED MECHANICAL PLAN - AREA J
SCALE: 1/8" = 1'-0"



2 MEZZANINE MECHANICAL PLAN - AREA A
SCALE: 1/8" = 1'-0"

KEYED NOTES:

1. EXISTING AHU TO REMAIN. PROVIDE DUCT MOUNTED IONIZATION (SMOKE) DETECTOR IN SUPPLY AIR DUCT AND RETURN AIR INLET SPECIFIED AND INSTALLED IN DIVISION 28.
2. 14"x12" EXHAUST AIR DUCT DOWN TO FIRST FLOOR. REFER TO M-101A FOR CONTINUATION.
3. TWO (2) SWITCH ELECTRIC METER, VERIFY EXACT LOCATION WITH ELECTRICAL CONTRACTOR.
4. PROVIDE SECONDARY THERMOSTAT WITH TEMPERATURE DISPLAY; REFER TO SEQUENCE OF OPERATION SPECIFICATIONS. THERMOSTAT TO BE LOCATED NEAR TO SERVER RACK
5. REFRIGERANT LINES; SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE SNAP-N' SHIELD RERIGERANT PIPING SUPPORT. REFER TO DETAIL DRAWING.
6. PROVIDE METAL CLADDING ON OUTDOOR REFRIGERANT PIPING.
7. ROUTE CONDENSATE PIPE TO NEAREST EXISTING FLOOR DRAIN.

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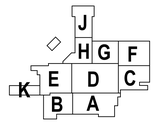

KEY PLAN
NORTH: PLAN TRUE

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ENLARGED MECHANICAL PLAN

M-202

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MECHANICAL ROOF PLAN
M-301
FOR BLUEBEAM LABELING/OCR:

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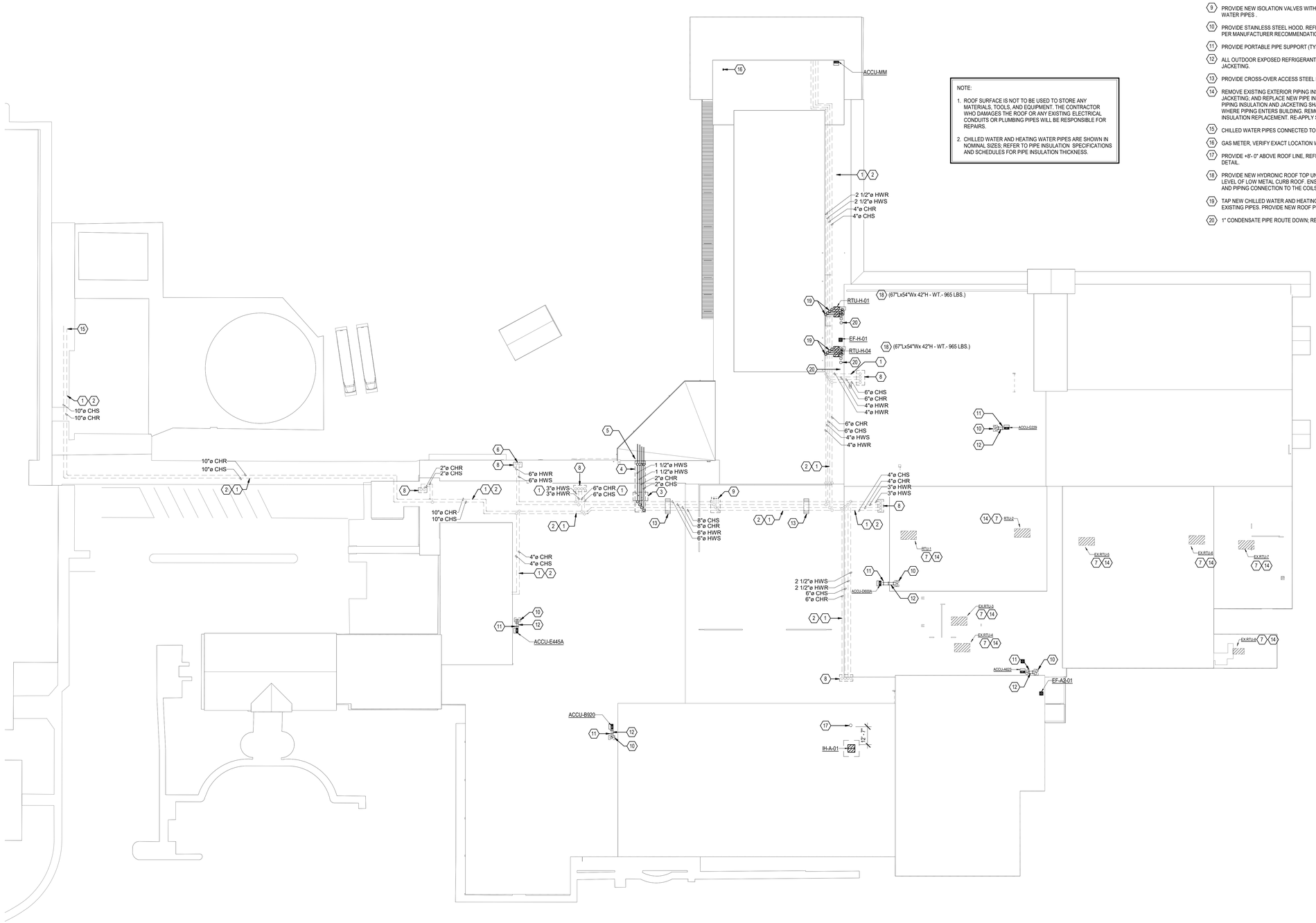

NOTE:

1. ROOF SURFACE IS NOT TO BE USED TO STORE ANY MATERIALS, TOOLS, AND EQUIPMENT. THE CONTRACTOR WHO DAMAGES THE ROOF OR ANY EXISTING ELECTRICAL CONDUITS OR PLUMBING PIPES WILL BE RESPONSIBLE FOR REPAIRS.
2. CHILLED WATER AND HEATING WATER PIPES ARE SHOWN IN NOMINAL SIZES; REFER TO PIPE INSULATION SPECIFICATIONS AND SCHEDULES FOR PIPE INSULATION THICKNESS.

KEYED NOTES:

1. REMOVE EXISTING PIPING INSULATION AND ASSOCIATED METAL JACKETING; AND REPLACE NEW PIPE INSULATION AND NEW METAL JACKETING. NEW PIPING INSULATION AND JACKETING SHALL CONTINUE TO WITHIN HOOD OR COLLAR WHERE PIPING ENTERS BUILDING. REMOVE AND RE-INSTALL HOOD TO ACCOMLISH INSULATION REPLACEMENT. RE-APPLY SEALANT AT PIPING ENTRY HOOD.
2. REMOVE EXISTING STEEL PIPE SUPPORT AND PROVIDE NEW PIPE ROOF SUPPORT WITH NEW HIGH DENSITY PLASTIC BASE SET ON ROOF PROTECTION PAD, PHP MANUFACTURER ONLY. SPACE PIPE SUPPORTS AT MAXIMUM INTERVAL OF 10'-0" ON CENTER.
3. PROVIDE ISOLATION VALVES AND BYPASS VALVES TO EACH LINES WITH END CAPS TO BE USED FOR FLUSHING SYSTEM SEPARATE FROM THE BUILDING.
4. PROVIDE NEW CHILLED WATER AND HOT WATER PIPES AND ASSOCIATED PIPE INSULATION, METAL JACKETING AND PIPE ROOF SUPPORT.
5. NEW CHILLED WATER AND HOT WATER PIPES ; REFER TO SHEET M-102H FOR CONTINUATION.
6. EXISTING HOT WATER PIPES ; REFER TO SHEET M-101 FOR CONTINUATION.
7. CLEAN INTERIOR OF ROOF TOP UNIT, INCLUDING COILS, DRAIN PANS, AND DRAIN LINES.
8. EXISTING STAINLESS HOODED CURB ON PIPE DOWN TO FIRST FLOOR TO REMAIN.
9. PROVIDE NEW ISOLATION VALVES WITH END CAP ON CHILLED WATER AND HEATING WATER PIPES .
10. PROVIDE STAINLESS STEEL HOOD. REFRIGERANT PIPE FROM LOWER LEVEL. SZE PER MANUFACTURER RECOMMENDATION. REFER TO DETAIL DRAWING.
11. PROVIDE PORTABLE PIPE SUPPORT (TYP.).
12. ALL OUTDOOR EXPOSED REFRIGERANT PIPE SHALL BE PROVIDED WITH ALUMINUM JACKETING.
13. PROVIDE CROSS-OVER ACCESS STEEL PLATFORM.
14. REMOVE EXISTING EXTERIOR PIPING INSULATION AND ASSOCIATED METAL JACKETING; AND REPLACE NEW PIPE INSULATION AND NEW METAL JACKETING. NEW PIPING INSULATION AND JACKETING SHALL CONTINUE TO WITHIN HOOD OR COLLAR WHERE PIPING ENTERS BUILDING. REMOVE AND RE-INSTALL HOOD TO ACCOMLISH INSULATION REPLACEMENT. RE-APPLY SEALANT AT PIPING ENTRY HOOD.
15. CHILLED WATER PIPES CONNECTED TO CY-FAIR HS MAIN CHILLED WATER LINES.
16. GAS METER, VERIFY EXACT LOCATION WITH PLUMBING CONTRACTOR.
17. PROVIDE +8'- 0" ABOVE ROOF LINE, REFER TO EXHAUST DUCT DISCHARGE STACK DETAIL.
18. PROVIDE NEW HYDRONIC ROOF TOP UNIT. ELEVATE 14" ROOF RTU CURB ABOVE TOP LEVEL OF LOW METAL CURB ROOF. ENSURE CLEAR ACCESS ON UNIT ACCESS DOOR AND PIPING CONNECTION TO THE COILS.
19. TAP NEW CHILLED WATER AND HEATING WATER PIPE WITH METAL CLADDING TO EXISTING PIPES. PROVIDE NEW ROOF PIPE SUPPORTS.
20. 1" CONDENSATE PIPE ROUTE DOWN; REFER TO SHEET M-101H FOR CONTINUATION.

1 **MECHANICAL ROOF PLAN**
SCALE: 1" = 30'-0"

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PROJECT NUMBER 220023

DRAWING HISTORY

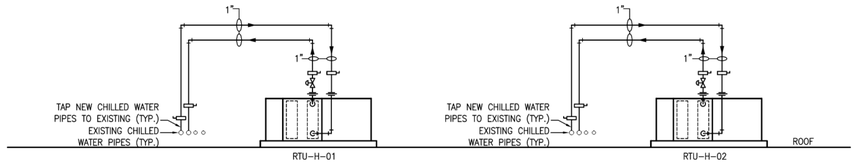
No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

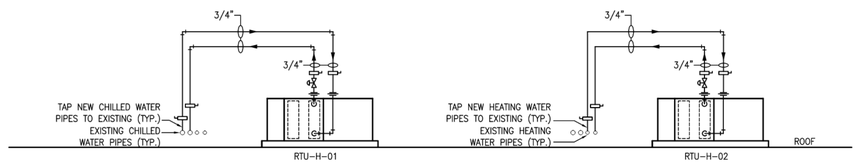
MECHANICAL ROOF PLAN

M-301

0"
1"



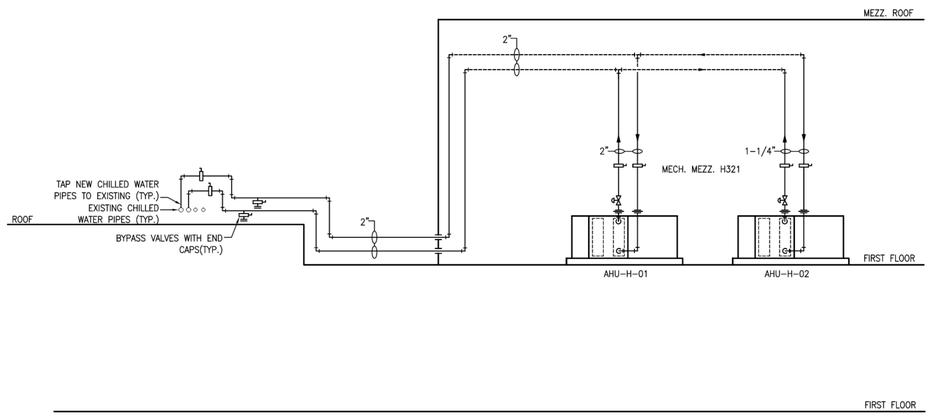
03 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE



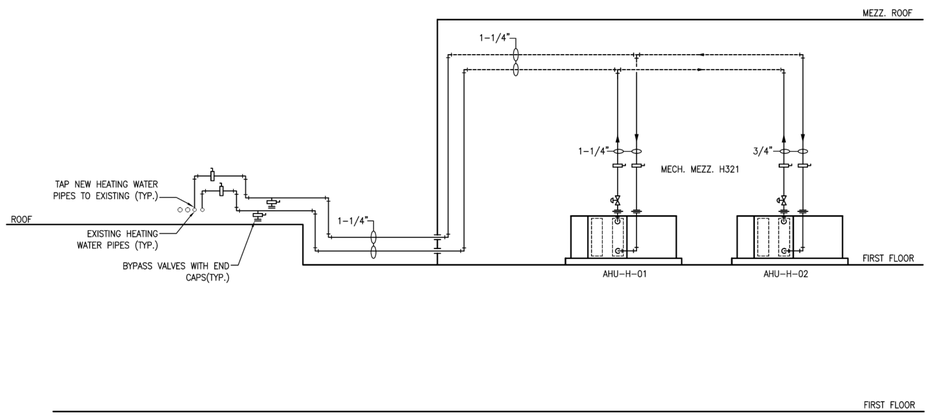
04 MECHANICAL HEATING WATER PIPING DIAGRAM
SCALE: NONE

NOTES:

1. CONTRACTOR TO VERIFY STACKED COIL CONNECTIONS AND PROVIDE ADDITIONAL VALVES AS REQUIRED. DRAWING IS DIAGRAMATIC AND DOES NOT INDICATE ALL REQUIRED VALVES.



01 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE



02 MECHANICAL HEATING WATER PIPING DIAGRAM
SCALE: NONE

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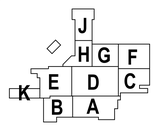

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DATE	PROJECT NUMBER
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No.	Description	Date

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BUILDING NUMBER

MECHANICAL PIPING DIAGRAM

M-401

0"
1"

CONDENSING BOILER SCHEDULE

DESIGNATION	TYPE	LOCATION	BURNER FUEL	MIN. OUTPUT (BTUH)	MIN. EFFICIENCY	FUEL CONSUMPTION (BTUH)	MANUFACTURER	MODEL NUMBER	GPM	E.W.T. (°F)	L.W.T. (°F)	FLUE SIZE (DIA.)	DIMENSIONS (L x W x H)	WEIGHT (LBS)	BOILER ELECTRICAL INFORMATION		CIRCULATING PUMP ELECTRICAL INFORMATION		
															MAX AMP	VOLT / Ø / HZ	DESIGNATION	MAX H.P.	VOLT / Ø / HZ
B-01	CONDENSING	BOILER ROOM	NAT. GAS	1,901,000	95%	1,999,000	RBI	FLEXCORE	190	160°F	180°F	6"	72" x 32" x 80"	2,300	13.0	208 / 1 / 60	PHWP-01	1	208 / 1 / 60
B-02	CONDENSING	BOILER ROOM	NAT. GAS	1,901,000	95%	1,999,000	RBI	FLEXCORE	190	160°F	180°F	6"	72" x 32" x 80"	2,300	13.0	208 / 1 / 60	PHWP-02	1	208 / 1 / 60
B-03	CONDENSING	BOILER ROOM	NAT. GAS	1,901,000	95%	1,999,000	RBI	FLEXCORE	190	160°F	180°F	6"	72" x 32" x 80"	2,300	13.0	208 / 1 / 60	PHWP-03	1	208 / 1 / 60

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. PROVIDE AUXILIARY PUMP AS REQUIRED BY MANUFACTURER TO CIRCULATE WATER AT BYPASS CONDITIONS. REFER TO ELECTRICAL DRAWINGS.
3. PROVIDE CATEGORY IV FLUE PIPE, INNER PIPE OF AL29-4C AND OUTER PIPE OF 430 STAINLESS STEEL.
4. PROVIDE WITH A CONDENSATE NEUTRALIZATION KIT WITH SCHEDULE 8-CPVC CONDENSATE PIPING.
5. CONDENSING BOILER HEAT EXCHANGER SHALL BE OF STAINLESS STEEL OR CAST IRON. COPPER HEAT EXCHANGERS ARE NOT ACCEPTABLE; REFER TO SPECIFICATION.
6. BOILER MANUFACTURER SHALL PROVIDE CONTROLS FOR BOILER SEQUENCING AND CONTROL. BAS SHALL INTERFACE TO BOILER CONTROL PANEL.
7. MANUFACTURER SHALL PROVIDE BACNET INTERFACE CARD ANY ACCESSORIES REQUIRED TO FACILITATE 2-WAY COMMUNICATION WITH THE BAS CONTRACTOR'S SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO, FURNISHING, INSTALLING AND PROGRAMMING OF COMMUNICATION CARD (i.e. BACnet)
8. PROVIDE SEPARATE POINT CONNECTION TO BOILER AND CIRCULATING PUMP.
9. FLUE PIPING SHALL BE PROVIDED AND SUBMITTED BY BOILER DISTRIBUTOR AFTER BOILER SUBMITTAL HAS BEEN APPROVED BY ENGINEER. FLUE PIPE SHALL NOT BE SUBMITTED BY ANY OTHER PARTY OTHER THAN THE BOILER SALES REPRESENTATIVE AWARDED THE PROJECT. FLUE PIPE SHALL BE INSTALLED BY MECHANICAL CONTRACTOR.
10. SYSTEM SETPOINT SHALL BE 180°F.

HYDRONIC PUMP SCHEDULE

DESIGNATION	SERVICE	TYPE	NOTES	GPM	HEAD (FT. H20)	EFFICIENCY	RPM (MAX.)	MAX. BHP	MOTOR H.P.	VOLTS/PH/HZ	MANUFACTURER	MODEL NUMBER	MINIMUM NPSHR (FT.)
SHWP-01	ARNOLD MS - BUILDING LOOP	SPLIT COUPLED VERTICAL IN-LINE	1-11	265	130'	66.87%	1,800	18.01	20	460 / 3 /60	PENTAIRE-AURORA	382B CL	9.87
SHWP-02	ARNOLD MS - BUILDING LOOP	SPLIT COUPLED VERTICAL IN-LINE	1-11	265	130'	66.87%	1,800	18.01	20	460 / 3 /60	PENTAIRE-AURORA	382B CL	9.87
SHWP-03	ARNOLD MS - BUILDING LOOP	SPLIT COUPLED VERTICAL IN-LINE	1-12	265	130'	66.87%	1,800	18.01	20	460 / 3 /60	PENTAIRE-AURORA	382B CL	9.87

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. IMPELLER SHALL NOT EXCEED 85% OF CUTWATER DIAMETER.
3. PUMP CURVE SHALL HAVE A MINIMUM OF 8 PSI DIFFERENTIAL BETWEEN 65% OF DESIGN FLOW AND 100% OF DESIGN FLOW.
4. PUMPS SHALL BE FREE OF FLASHING AND CAVITATION AT ALL FLOW RATES FROM 25% TO 125% OF DESIGN FLOW UNDER SUCTION CONDITIONS OF THE PUMP INSTALLATION.
5. VERTICAL IN-LINE PUMP CONNECTIONS: FLANGED FOR PIPE SIZE ≥ 2 INCHES. UNION FOR PIPE SIZE < 2INCHES. VERTICAL TURBINE PUMP SHALL HAVE ONLY FLANGED CONNECTION.
6. PROVIDE PREMIUM EFFICIENT TOTALLY ENCLOSED FAN COOLED (TEFC) MOTORS.
7. PROVIDE SPLIT BOLT KEARNEY CONNECTORS FOR ALL PUMPS ≥ 10HP.
8. PUMP SHALL BE SELECTED WITH CRITICAL SPEED AT LEAST 115% OF SCHEDULED RUNNING SPEED.
9. PROVIDE VARIABLE FREQUENCY DRIVE FOR VARIABLE FLOW OPERATION. PROVIDE SHAFT GROUNDING RINGS. ALL ELECTRICAL CONDUIT PENETRATIONS SHALL BE MADE INTO THE BOTTOM ONLY OF ANY ELECTRICAL STARTERS, VFD AND CONTROLS CABINET.
10. PRIOR TO STARTUP, MANUFACTURER'S REPRESENTATIVE SHALL ALIGN PUMP USING A DIAL INDICATOR.
11. PUMPS ARE TO BE SELECTED FOR PARALLEL OPERATION.
12. PROVIDE STAND-BY PUMP.

MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNIT SCHEDULE

DESIGNATION	SERVICE	TYPE	ARRANGEMENT	MANUFACTURER	MODEL	DIMENSIONS (L x W x H) INCHES	OPERATING WEIGHT (LBS.)	SEE NOTE	BLOWER DATA								COOLING COIL DATA									HEATING COIL DATA							
									TOTAL CFM	OUTSIDE AIR CFM		EST. EXT. SP. (IN. WG.)	MAX. ALLOWABLE TOTAL BRAKE H.P.	MOTOR QTY / MAX. MOTOR H.P. (EACH)	VARIABLE FREQUENCY DRIVE H.P.	TYPE	VOLTAGE	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	SENSIBLE BTUH	TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	TOTAL BTUH	EAT (°F DB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)
										MAX	MIN																						
AHU-H-01	NEW ORCHESTRA HALL H320	SZ CV	HORIZONTAL - DRAW-THRU	DAIKIN	CAH	140" x 52" x 34"	1,450	1 - 13	3,000	845	254	1.0	2.48	1 / 3.00	3 .00	DIRECT DRIVE - PF	460 / 3 / 60	3,000	500	90,947	117,671	83°F	69°F	55°F	24	45°F	50°F	3,000	750	81,000	60.0°	80°F	8	180°F	160°F
AHU-H-02	ENSEMBLE H320D	SZ CV	HORIZONTAL - DRAW THRU	DAIKIN	CAH	140" x 52" x 34"	1,450	1 - 13	1,000	350	105	0.8	0.58	1 / 1.00	1 .00	DIRECT DRIVE - PF	460 / 3 / 60	1,000	500	31,644	40,552	84°F	70°F	55°F	8	45°F	50°F	1,000	750	27,000	60.0°	80°F	3	180°F	160°F

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. AIR HANDLING UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.75" W.G. FOR DIRTY FILTERS.
4. COOLING COILS SHALL HAVE A MINIMUM OF 6 ROWS AND A MAXIMUM OF 10 FINS PER INCH. PRESSURE DROP THROUGH COIL SHALL NOT EXCEED 15 FT. AT SCHEDULED GPM.
5. PROVIDE VARIABLE FREQUENCY DRIVE.
6. FAN CONSTRUCTION SHALL BE MINIMUM AMCA CLASS II.
7. PROVIDE FACTORY MOUNTED AND WIRED EXTERNAL JUNCTION BOXES ON FAN SECTION. J-BOX SHALL ALLOW ELECTRICAL CONTRACTOR TO LAND POWER TO DEVICE WITHOUT PENETRATING THROUGH CABINET. FIELD INSTALLED JUNCTION BOXES ARE NOT ACCEPTABLE.
8. PROVIDE FACTORY MOUNTED SHAFT GROUNDING KIT FOR AIR HANDLING UNIT MOTOR, NO EXCEPTIONS.
9. PROVIDE WITH ANGLED FILTERS AND PERMANANT METAL FILTER FRAMES WITH MAXIMUM 2" THICK MERV 13 FILTER MEDIA.
10. UNITS WITH MULTIPLE FANS AND MOTORS, PROVIDE FACTORY INSTALLED AND WIRED MOTOR OVERLOAD PANEL FOR CONNECTION TO A SINGLE VFD.
11. ALL COILS SHALL BE FULLY DIPPED AND BAKED (E-COAT) WITH UV TOP COAT.
12. PROVIDE FACTORY MIXING BOX / OUTSIDE AIR PLENUM BOX. REFER TO DRAWINGS FOR OUTSIDE AIR AND RETURN AIR DUCT SIZES.
13. PROVIDE HOT WATER COIL IN RE-HEAT POSITION FOR HUMIDITY CONTROL.

FAN COIL UNIT SCHEDULE

DESIGNATION	SERVICE	TYPE	ARRANGEMENT	MANUFACTURER	MODEL	DIMENSIONS (LxWxH)	WEIGHT (lbs)	SEE NOTE	INDOOR BLOWER DATA							COOLING COIL DATA							ELECTRIC HEATING COIL					ELECTRICAL INFORMATION		
									TOTAL CFM	OUTSIDE AIR CFM	EST. EXT. SP. (IN. WG.)	MOTOR H.P.	MOTOR B.H.P.	DRIVE	TYPE	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND SENSIBLE BTUH	GRAND TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	CFM OVER COIL	KW	STAGES	EAT (°F DB)	LAT (°F DB)	MCA	MOCP	VOLTAGE
FCU-01	BOILER ROOM	SZ CV	HORIZONTAL - DRAW THRU	DAIKIN	DAQ	60" x 48" x 24"	450	1-10	2,800	300	0.75	1.00	1.00	DIRECT	FC	2,800	500	73,656	99,360	80.4°	66.2°	56.0	2,800	15.0	1.0	70.0	85.0	27.3	30	460 / 3 / 60

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. FAN COIL UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.50" W.G. FOR DIRTY FILTER.
4. COOLING COILS SHALL HAVE A MINIMUM OF 6 ROWS AND A MAXIMUM OF 12 FINS PER INCH.
5. PROVIDE FLOAT SWITCH IN AUXILIARY DRAIN PAN.
6. PROVIDE FACTORY MOUNTED STARTER.
7. PROVIDE MERV 13 FILTERS.
8. PROVIDE MATCHING CONDENSING UNIT.
9. PROVIDE INTERTWINED EVAPORATOR COILS.
10. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION.
11. PROVIDE SCR ELECTRIC HEAT.

MODULAR CENTRAL-STATION AIR HANDLING UNIT SCHEDULE

DESIGNATION	SERVICE	TYPE	ARRANGEMENT	MANUFACTURER	MODEL	TYPE	DIMENSIONS (L x W x H)	OPERATING WEIGHT (lbs)	SEE NOTE	INDOOR BLOWER DATA								MAIN COOLING COIL DATA										RE-HEATING COIL DATA							
										TOTAL CFM	OUTSIDE AIR CFM	MIN. OUTSIDE AIR CFM	EST. EXT. SP. (IN. WG.)	MOTOR H.P.	BRAKE HP	VOLTAGE/PH/HZ	TYPE	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND SENSIBLE BTUH	GRAND TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND TOTAL BTUH	EAT (°F DB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)
RTUH-01	BAND H304	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	DAIKIN	OAH	HORIZONTAL	86" x 52" x 42"	1,360	ALL	1,200	250	75	1.0	1	0.60	480 / 3 / 60	DIRECT DRIVE - PLENUM FAN	1,200	500	34,668	50,009	81.8°	68.1°	55.0°	6	42.0°	58.0°	1,200	750	34,290	58.5°	85.0°	2	140.0°	100.0°
RTUH-02	REHEARSAL HALL H305	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	DAIKIN	OAH	HORIZONTAL	86" x 52" x 42"	1,360	ALL	700	150	45	1.0	1	0.60	480 / 3 / 60	DIRECT DRIVE - PLENUM FAN	700	500	20,304	29,253	81.9°	68.2°	55.0°	4	42.0°	58.0°	700	750	20,250	58.2°	85.0°	1	140.0°	100.0°

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. ROOFTOP UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.75" W.G. FOR DIRTY FILTERS.
4. COOLING COILS SHALL HAVE A MINIMUM OF 6 ROWS AND A MAXIMUM OF 10 FINS PER INCH. PRESSURE DROP THROUGH COIL SHALL NOT EXCEED 15 FT. AT SCHEDULED GPM.
5. PROVIDE SINGLE POINT POWER CONNECTION WITH FACTORY MOUNTED AND WIRED DISCONNECT AND UNPOWERED 120V/15A GFCI CONVENIENCE OUTLET. CONVENIENCE OUTLET CONNECTION SHALL BE A SEPARATE ELECTRICAL FEED AND NOT FROM THE MAIN.
6. PROVIDE MERV 13 FILTERS.
7. PROVIDE FACTORY MOUNTED AND WIRED VARIABLE FREQUENCY DRIVES FOR SUPPLY FAN IN VENTED NEMA 3R ELECTRICAL PANEL MOUNTED ON UNIT. PANEL SHALL INCLUDE SINGLE POINT POWER CONNECTION TO ENTIRE UNIT WITH DISCONNECT SWITCH WIRED TO VFD.
8. COOLING COILS SHALL HAVE STAINLESS STEEL COIL CASINGS AND STAINLESS STEEL COIL SUPPORTS.
9. PROVIDE AIR HANDLERS WITH 14" UVC LIGHT SECTION DOWNSTREAM OF COOLING COIL WITH STAINLESS STEEL DRAIN PAN.
10. PROVIDE FACTORY MOUNTED SHAFT GROUNDING KIT FOR AIR HANDLING UNIT MOTOR, NO EXCEPTIONS.
11. PROVIDE MODULATING MOTORIZED OUTSIDE AIR AND RETURN AIR DAMPER. ACTUATOR BY CONTROLS CONTRACTOR.
12. ALL COILS SHALL BE FULLY DIPPED AND BAKED (E-COAT) WITH UV TOP COAT.
13. PROVIDE FLOAT SWITCH IN DRAIN PAN.

SAWDUST COLLECTION SYSTEM SCHEDULE

DESIGNATION	LOCATION	SERVICE	MANUFACTURER	MODEL NUMBER	NOTES	CFM	EXT. S.P.	WEIGHT (LBS)	MOTOR H.P.	VOLTAGE
DC-01	BUILDING EXTERIOR	WOOD SHOP-WOOD DUST	DONALDSON TORIT	CYC 30-10	1-12	3,600	8"	850	10	480 / 3 / 60

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. PROVIDE WITH BUILT-IN SILENCER.
3. PROVIDE WITH 55 GALLONS DRUMS.
4. PROVIDE WITH CENTRIFUGAL CYCLONE TYPE DUST SEPARATOR TYPE.
5. PROVIDE DUST COLLECTOR RATED FOR OUTDOOR CONDITIONS.
6. UNIT MUST BE FACTORY EQUIPPED WITH EXTENDED SUPPORT LEG STRUCTURE TO ELEVATE EXPLOSION VENT ABOVE A SAFE LEVEL.
7. PROVIDE REMOTE DUST COLLECTOR SWITCH FOR LOCAL CONTROL. COORDINATE WITH OWNER FOR THE FINAL LOCATION. ELECTRICAL CONTRACTOR TO PROVIDE WIRING FROM DUST COLLECTOR TO THE REMOTE SWITCH.
8. PROVIDE INLET EXPLOSION ISOLATION VENT AND PROVIDED WITH A NO RETURN EXPLOSION ISOLATION VALVE. REFER TO DRAWINGS FOR LOCATION.
9. INLET ISOLATION VALVE TO BE INTERLOCKED WITH DUST COLLECTOR PANEL FOR AUTO SHUT DOWN.
10. PROVIDE WITH MICRO-SWITCH FOR SYSTEM SHUT DOWN. ISOLATION VALVE MICRO SWITCH TO BE POWERED BY DUST COLLECTOR PANEL.
11. PROVIDE WITH MOTOR STARTER AND MAGNEHELIC GAUGE.

AIR COOLED REFRIGERANT CONDENSER SCHEDULE

DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	NOTES	CAPACITY (TONS)	DIMENSIONS (LxWxH) INCHES	WEIGHT (lbs)	EER AT AHRI CONDITIONS	COMPRESSOR DATA		CONDENSER DATA		ELECTRICAL INFORMATION		
									REFRIGERANT	NUMBER OF COMPRESORS	AMBIENT TEMP. (°F)	NUMBER OF FANS	VOLTAGE / PH / HZ	MCA	MOCP
ACCU-01	FCU-01	DAIKIN	DC9TE	1-5	8.5	36" x 36" x 42"	350	12.3	R32	2	105°F	1	460 / 3 /60	17.9	20

1. REFERENCE ELECTRICAL DRAWINGS FOR FURTHER ELECTRICAL INFORMATION
2. PROVIDE LOW AMBIENT CONTROL TO 0°F.
3. PROVIDE COMPRESSOR BLANKETS ON EACH COMPRESSOR. REFER TO SPECIFICATIONS.
4. PROVIDE WITH MINIMUM TWO-STAGE / VARIABLE.
5. PROVIDE WITH EPOXY COATED CONDENSER COILS.

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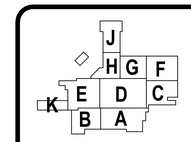
LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

2/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

MECHANICAL SCHEDULES

M-501

0"
1"

DUCTLESS MINI-SPLIT SYSTEM AIR-CONDITIONERS SCHEDULE

EVAPORATOR SECTION						
INDOOR EVAPORATOR DESIGNATION	**FCU-A623**	**FCU-B920**	**FCU-D600A**	**FCU-E445A**	**FCU-MM**	**FCU-G229**
SERVICE	GYM STO. A623	SERVER CLOSET B920	IDF-D600A	IDF-E445E	IDF-MECH MEZZ.	MDF-G229
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL NUMBER	FTK	FTK	FTK	FTK	FTK	FTK
TYPE	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED
WEIGHT (LBS.)	75	75	75	75	75	75
NOTES	1-9	1-9	1-9	1-9	1-9	1-9
FAN DATA						
SUPPLY CFM (HIGH / MEDIUM / LOW) SPEED	500	500	500	500	500	800
EXTERNAL STATIC PRESSURE, "WG	-	-	-	-	-	-
COOLING / HEATING COIL	DX	DX	DX	DX	DX	DX
NOMINAL TONNAGE	**1.5 TONS**	**1.5 TONS**	**1.5 TONS**	**1.5 TONS**	**1.5 TONS**	**3.0 TONS**
ENTERING AIR EVAP (DB/WB) °F - COOLING MODE	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F
ENTERING AIR EVAP (DB/WB) °F - HEATING MODE	70°F / 60°F	70°F / 60°F	70°F / 60°F	70°F / 60°F	70°F / 60°F	70°F / 60°F
TOTAL BTUH COOLING	18,000	18,000	18,000	18,000	18,000	36,000
AIR-COOLED CONDENSER						
DESIGNATION	**ACCU-A623**	**ACCU-A623**	**ACCU-D600A**	**ACCU-E445A**	**ACCU-MM**	**ACCU-G229**
SERVES	FCU-A623	FCU-B920	FCU-D600A	FCU-E445A	FCU-MM	FCU-G229
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL NUMBER	RK	RK	RK	RK	RK	RK
EFFICIENCY (SEER)	20.0	20.0	20.0	20.0	20.0	15.9
VOLTS/PH/HZ	**208 / 1 / 60**	**208 / 1 / 60**	**208 / 1 / 60**	**208 / 1 / 60**	**208 / 1 / 60**	**208 / 1 / 60**
MCA	13.6	13.6	13.6	13.6	13.6	16.6
MOCP	20	20	20	20	20	20
REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
AMBIENT TEMPERATURE °F	95°F	95°F	95°F	95°F	95°F	95°F
WEIGHT (LBS.)	250	250	250	250	250	250

NOTES

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH PLENUM, AIR DEVICES, ETC.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE WALL MOUNTED SENSOR, NO BACnet INTERFACE THERMOSTAT. ANOTHER SENSOR, REMOTE SHALL BE WIRED TO BACnet FOR TEMPERATURE MONITORING ONLY FOR THE BAS.
5. PROVIDE INVERTER DRIVEN COMPRESSOR.
6. INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT. INTERCONNECTING POWER WIRING FROM OUTDOOR TO INDOOR UNIT IS BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS.
7. PROVIDE MATCHING CONDENSING UNIT FROM SAME MANUFACTURER.
8. MANUFACTURER SHALL PROVIDE A CONDENSATE PUMP. PUMP SHALL BE OUTSIDE THE FCU UNIT, POWERED BY THE UNIT AND SHALL NOT START / STOP UNLESS THE UNIT IS ENERGIZED / DE-ENERGIZED.
   PROVIDE PUMP IF DRAIN IS HIGHER ELEVATION THAN UNIT. REFER TO PLANS FOR CONDENSATE PUMP LOCATION.
9. UNIT SHALL BE RATED FOR 155 MPH WIND SPEED.

HVAC FAN SCHEDULE

DESIGNATION	LOCATION	SERVICE	MANUFACTURER	MODEL NUMBER	NOTES	FAN DATA						
						TYPE	DRIVE	CFM	STATIC PRESSURE (" W.G.)	MOTOR HP. (MIN)	RPM (MAX.)	VOLT / Ø / HZ
EF-PB-01	ROOF	PAINT BOOTH			12	TUBE-AXIAL	DIRECT	8,000		3	1,800	460 / 3 / 60
EF-01	ROOF	BOILER RM - PURGE	GREENHECK	CUE	1-4,10	CENTRIFUGAL	DIRECT	1,800	0.75	3/4	1,550	120 / 1 / 60
EF-A2-01	ROOF	MENS RR A622A & WOMENS RR A622B	GREENHECK	CUE	1-4,6,7	CENTRIFUGAL	DIRECT	800	0.75	1/2	1,725	120 / 1 / 60
EF-D-01	ROOF	CUST. OFFICE	GREENHECK	CUE	1-4,10, 13	CENTRIFUGAL	DIRECT	150	0.75	1/10	1,539	120 / 1 / 60
EF-H-01	ROOF	CUSTODIAL STORAGE H305A	GREENHECK	CUE	1-4,10, 13	CENTRIFUGAL	DIRECT	150	0.75	1/10	1,539	120 / 1 / 60
EF-SB-01	SUSPENDED	STORAGE BUILDING S100	GREENHECK	SQ	1-3,11	CENTRIFUGAL	DIRECT	850	0.50	1	1,145	120 / 1 / 60
CF-01	WALL MOUNTED	GIRLS P.E. C704	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-02	WALL MOUNTED	GIRLS P.E. C704	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-03	WALL MOUNTED	GIRLS P.E. C704	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-04	WALL MOUNTED	GIRLS P.E. C704	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-05	WALL MOUNTED	GIRLS P.E. C704	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-06	WALL MOUNTED	GIRLS ATHLETICS C702	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-07	WALL MOUNTED	GIRLS ATHLETICS C702	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-08	WALL MOUNTED	GIRLS ATHLETICS C702	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-09	WALL MOUNTED	GIRLS ATHLETICS C702	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-10	WALL MOUNTED	GIRLS ATHLETICS C702	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-11	WALL MOUNTED	BOYS P.E. D605	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-12	WALL MOUNTED	BOYS P.E. D605	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-13	WALL MOUNTED	BOYS P.E. D605	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-14	WALL MOUNTED	BOYS P.E. D605	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-15	WALL MOUNTED	BOYS P.E. D605	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-16	WALL MOUNTED	BOYS ATHLETICS D612	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-17	WALL MOUNTED	BOYS ATHLETICS D612	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-18	WALL MOUNTED	BOYS ATHLETICS D612	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60
CF-19	WALL MOUNTED	BOYS ATHLETICS D612	GREENHECK	ICO	1,9	AXIAL	DIRECT	6,400 / 4,460	-	1/2	1,075 / 750	120 / 1 / 60

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. REFERENCE SPECIFICATIONS FOR SEQUENCE OF OPERATIONS.
3. REFERENCE ARCHITECTURAL DRAWINGS FOR ROOF CURB DETAIL.
4. PROVIDE UPBLAST FAN & DESIGNED TO WITHSTAND HIGH WIND SPEEDS UP TO 155 MPH.
6. FAN SHALL BE PROVIDED WITH GREENHECK VARI-GREEN® CONTROL AND ECM MOTOR. STARTER SHALL BE PROVIDED BY FAN MANUFACTURER. JUNCTION BOX AND VARI-GREEN TRANSFORMER SHALL BE FACTORY MOUNTED AND WIRED.
7. DIRECT DRIVE FANS SHALL BE PROVIDED WITH SPEED CONTROLLERS FOR SYSTEM BALANCING.
8. FAN SHALL BE PROVIDED WITH ECM MOTOR AND GREENHECK VARI-GREEN® TWO SPEED CONTROLLER. STARTER SHALL BE PROVIDED BY FAN MANUFACTURER. JUNCTION BOX AND VARI-GREEN TRANSFORMER SHALL BE FACTORY MOUNTED AND WIRED.
9. PROVIDE WITH 2-SPEED FAN, TOTALLY ENCLOSED AND PERMANENTLY LUBRICATED MOTOR. OSCILLATING FAN. WITH WIRE GUARDS. OSHA COMPLIANT, 20" IMPELLER DIAMETER AND HEAVY DUTY WALL/POST/CEILING MOUNTING BRACKET.
   FOR FANS CONSTRAIN IN SPACE DUE TO LOCKER CABINET HEIGHT, PROVIDE CEILING BRACKET WITH SUPPORT TO JOIST. REFER TO MECHANICAL FLOOR PLAN.
10. NORMAL VENT. EXHAUST CFM AND EMERGENCY PURGE CFM.
11. INTERLOCK FAN WITH THERMOSTAT SET TO 80° (ADJUSTABLE)
12. EXHAUST FAN ACCESSORIES OF PAINT BOOTH TO BE SUPPLIED BY GENERAL CONTRACTOR.
13. RESTROOM FAN INTERLOCKED WITH LOCAT AHU.

DIFFUSER SCHEDULE

DESIGNATION	MODEL NUMBER	NOISE CRITERIA (NC)	DESCRIPTION
A	TITUS TDCA-AA	25	24x24 MODULE SIZE, LAY-IN BORDER TYPE, 18"x18" NECK SIZE WITH ROUND DUCT CONNECTION SIZED AS INDICATED ON PLANS. NO OPPOSED BLADE DAMPER, ALL ALUMINUM CONSTRUCTION. PROVIDE WITH R-6 MOLDED INSULATION BLANKET.
B	TITUS 350RL-SS	25	22x22 NECK SIZE, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION.45° FIXED DEFLECTION, NO OPPOSED BLADE DAMPER, LAY-IN BORDER TYPE, ALL STAINLESS STEEL CONSTRUCTION. CONTRACTOR TO PROVIDE TRANSITION BETWEEN DUCT AND GRILLE'S NECK. PROVIDE WITH R-6 MOLDED INSULATION BLANKET.
C	TITUS TDC-AA	25	12x12 MODULE SIZE, LAY-IN BORDER TYPE, 9"x9" NECK SIZE WITH ROUND DUCT CONNECTION SIZED AS INDICATED ON PLANS. NO OPPOSED BLADE DAMPER, ALL ALUMINUM CONSTRUCTION. PROVIDE WITH R-6 MOLDED INSULATION BLANKET.
D	TITUS 350RL-SS	25	10x10 NECK SIZE, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION, 35° FIXED DEFLECTION, NO OPPOSED BLADE DAMPER, LAY-IN BORDER TYPE, ALL STAINLESS CONSTRUCTION. CONTRACTOR TO PROVIDE TRANSITION BETWEEN DUCT AND GRILLE'S NECK. PROVIDE WITH R-6 MOLDED INSULATION BLANKET.
E	TITUS 300RS	25	DOUBLE DEFLECTION, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO SHORT DIMENSION, NO OPPOSED BLADE DAMPER, SURFACE MOUNTING BORDER TYPE WITH COUNTERSUNK HOLES, ALL STEEL CONTSTRUCTION.
F	TITUS 33RL	25	HEAVY DUTY BAR GRILLE, 1/2" BLADE SPACING, 38° DEFLECTION, 16 GAUGE BORDER, 14 GAUGE BLADES, BLADES PARALLEL TO LONG DIMENSION, ALL STEEL CONSTRUCTION.
G	TITUS 350RL	25	10x10 NECK SIZE, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION, 35° FIXED DEFLECTION, NO OPPOSED BLADE DAMPER, LAY-IN BORDER TYPE, ALL STEEL CONSTRUCTION. CONTRACTOR TO PROVIDE TRANSITION BETWEEN DUCT AND GRILLE'S NECK.
H	TITUS 350RL-SS	25	3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION, NO OPPOSED BLADE DAMPER, SURFACE MOUNTING BORDER TYPE WITH COUNTERSUNK HOLES, ALL 316 STAINLESS STEEL CONSTRUCTION.
I	TITUS CT-480	25	48" LONG, 6" WIDE SIDEWALL GRILLE, ALUMINUM CONSTRUCTION, 1/8" BARS WITH 0° DEFLECTION, 1/4" BAR SPACING. PROVIDE FRAME AND BORDER TYPE 3 WITH CONCEALED FASTENING.
J	TITUS DL	25	HIGH CAPACITY, LONG THROW DRUM LOUVER
K	TITUS 25RL	25	1/2" BLADE SPACING, BLADES PARALLEL TO LONG DIMENSION, SURFACE MOUNTING BORDER TYPE WITH COUNTERSUNK HOLES, ALL STEEL CONTSTRUCTION.
L	TITUS 300FL	25	DOUBLE DEFLECTION, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO SHORT DIMENSION, NO OPPOSED BLADE DAMPER, SURFACE MOUNTING BORDER TYPE WITH COUNTERSUNK HOLES, ALL ALUMINUM CONTSTRUCTION.
M	TITUS CT-480	25	48" LONG, 5" WIDE SIDEWALL GRILLE, ALUMINUM CONSTRUCTION, 1/8" BARS WITH 0° DEFLECTION, 1/4" BAR SPACING. PROVIDE FRAME AND BORDER TYPE 3 WITH CONCEALED FASTENING.
N	TITUS TDCA-AA	25	24x24 MODULE SIZE, LAY-IN BORDER TYPE, 18"x18" NECK SIZE WITH ROUND DUCT CONNECTION SIZED AS INDICATED ON PLANS. NO OPPOSED BLADE DAMPER, ALL ALUMINUM CONSTRUCTION. PROVIDE WITH R-6 MOLDED INSULATION BLANKET.
O	TITUS 350FL	25	22x22 NECK SIZE, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION, 35° FIXED DEFLECTION, NO OPPOSED BLADE DAMPER, LAY-IN BORDER TYPE, ALL ALUMINUM CONSTRUCTION. CONTRACTOR TO PROVIDE TRANSITION BETWEEN DUCT AND GRILLE'S NECK.
P	TITUS TMRA	25	FOUR CONE WITH VERTICAL TO HORIZONTAL ADJUSTABLE DISCHARGE, ALL STEEL CONSTRUCTION.

1. ALL DIFFUSER DESIGNATIONS MAY NOT BE USED ON PROJECT.
2. DIFFUSERS IN NATATORIUMS, SHOWER ROOMS, ADJACENT DRESSING ROOMS, DISHWASH ROOMS, AND THERAPY POOL ROOMS SHALL BE ALL ALUMINUM CONSTRUCTION.
   PROVIDE RING FRAME ON DIFFUSERS LOCATED ON HARD CEILING. REFER TO MECHANICAL FLOOR PLAN.
3. PROVIDE ROTO-TWIST CABLE OPERATED DAMPERS IN GYP BOARD CEILINGS.

HVAC GRAVITY VENTILATORS SCHEDULE

DESIGNATION	SERVICE	MANUFACTURER	MODEL	WEIGHT (LBS)	CFM	MAX. THROAT AREA (FT.²)/ THROAT SIZE (DIA./LxW)	P.D. (INCHES WG)	NOTES
IH-A-01	PAINT BOOTH	GREENHECK	FGI	200	8000	9.00 / 36"x36"	0. 08	1-5
IH-H-01	AH-LH-01 & AHU-H-02	GREENHECK	FGI	60	1,195	1.36 / 14" x 14"	0.08	1-4

1. MAXIMUM THROAT VELOCITY SHALL NOT EXCEED 600 FPM
2. PROVIDE BIRD SCREEN AND 12" PREFABRICATED ROOF CURB.
3. HOOD SHALL BE RATED FOR 155 MPH WIND SPEED.
4. GRAVITY WEIGHTED DAMPER SET TO OPEN AT 0.10" W.G.
5. PROVIDE METAL SLOPE ROOF CURB AND MATCH EXISTING METAL ROOF SLOPE.

BUILDING METER SCHEDULE

SERVICE	MODEL	PROVIDED BY	INSTALLED BY	BAS COMMUNICATION
KITCHEN - MAIN WATER	BADGER M2000	BAS	PLUMBING CONTRACTOR	PULSE / DRY CONTACT / BACnet
KITCHEN - MAIN GAS	AMERICAN METER AL-425	BAS	PLUMBING CONTRACTOR	PULSE / DRY CONTACT / BACnet
MAIN SWITCH GEAR	REFER TO ELECTRICAL DRAWINGS AND SPECS	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	BACnet / MSTP
KITCHEN ELECTRICAL	REFER TO ELECTRICAL DRAWINGS AND SPECS	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	BACnet / MSTP
KITCHEN ELECTRICAL	REFER TO ELECTRICAL DRAWINGS AND SPECS	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	BACnet / MSTP

1. ALL METERS SHALL BE MSTP.
2. PROVIDE APPROVED OR EQUAL TO LISTED METERS
3. CONTROLS CONTRACTOR TO COORDINATE WITH OTHER TRADES FOR LOCATION OF EACH METER AND PROVIDE WIRING AND CONDUIT TO METER.

DUCT SILENCERS SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	SIZE (INCHES)	LENGTH (FEET)	MAX. I/P (" W.G.)	VELOCITY (FPM)
ST-01	RETURN	VIBRO-ACOUSTICS	RD	48x24	5	0.10	700
ST-02	RETURN	VIBRO-ACOUSTICS	RD	18x18	5	0.10	700
ST-03	SUPPLY	VIBRO-ACOUSTICS	RD	36x24	5	0.10	700
ST-04	SUPPLY	VIBRO-ACOUSTICS	RD	18x18	5	0.10	700

1. MAXIMUM FLAME SPREAD OF 25 AND MAXIMUM FUEL CONTRIBUTED AND SMOKE DEVELOPED RATING OF 50 PER NFPA 90A FOR SOUND TRAP MEDIA.
2. MEDIA SHALL MEET EROSION TEST METHOD DESCRIBED IN U.L. PUBLICATION 181.
3. CONTRACTOR SHALL PROVIDE TRANSITIONS TO DUCTWORK AS REQUIRED.

ISSUE FOR PROPOSAL

ARCHITECT
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PBK.com
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11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

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LANDSCAPE
CONSULTANT NAME
T 000-000-0000

STRUCTURAL
CONSULTANT NAME
T 000-000-0000

MEP
CONSULTANT NAME
T 000-000-0000

ACOUSTIC
CONSULTANT NAME
T 000-000-0000

TECHNOLOGY
CONSULTANT NAME
T 000-000-0000

FOOD SERVICE
CONSULTANT NAME
T 000-000-0000

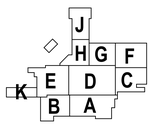
OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE



2/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

MECHANICAL SCHEDULES

M-502

ISSUE FOR PROPOSAL

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MECHANICAL SCHEDULES

M-503

FOR BLUEBEAM LABELING/OCR:

0"

1"

AIR HANDLING UNIT SCHEDULE (EXISTING TO REMAIN) - FOR REFERENCE ONLY

DESIGNATION	TYPE	SERVE	CFM	OUTSIDE AIR CFM	FAN H.P.
2004					
EX.AHU-1	CAV	AREA J - CAFETERIA	13,395	4,350	15.0
EX.AHU-2	CAV	AREA H - KITCHEN	7,990	315	7.5
EX.AHU-3	VAV	AREA H - BAND, ORCHESTRA	1,100	120	1.0
EX.AHU-4	VAV	AREA G - ADMINISTRATION	1,800	450	1-1/2
EX.AHU-5	VAV	AREA G - HOME ECO., SEWING, LIFE SKILLS	10,845	1,995	10.0
EX.AHU-6	VAV	AREA F - CLASSROOMS	14,480	3,750	15.0
EX.AHU-7	VAV	AREA F - CLASSROOMS	11,845	3,765	10.0
EX.AHU-8	VAV	AREA E - CLASSROOMS	1,500	500	1.0
EX.AHU-9	CAV	AREA B - ENLISH CLASSRMS., COMPOSITION	1,500	500	1.0
EX.AHU-10	VAV	AREA A - CHOIR, TH.ARTS, LANG.ARTS CLASSRMS.	8,645	2,175	7.5
EX.AHU-11	VAV	AREA D - NEW SCIENCE	12,395	2,895	10.0
EX.AHU-12	VAV	AREA D - NEW SCIENCE	8,710	1,545	7.5
EX.AHU-13	CAV	AREA A - METAL SHOP	6,630	450	5.0
EX.OAHU-1	VAV	EX.AHU-1	4,350	4,350	3.0
ANNEX BLDG.					
EX.AHU-1-ANNEX	CAV	CLASSROOMS - ANNEX	4,600	500	3.0
EX.AHU-2 - ANNEX	CAV	CLASSROOMS - ANNEX	6,400	500	5.0
2008					
EX.AHU-1	HDT-SZ	AREA B - ENLISH CLASSRMS., COMPOSITION	1,400	300	1-1/2
EX.AHU-2	CAV	AREA J - KITCHEN	5,250	5,250	5.0
EX.AHU-3	HDT-SZ	AREA A - COMPETION GYM	9,760	5,250	7.5
EX.FCU-1	HDT-SZ	AREA A - COMPETION GYM	2,270	150	1-1/2

1. EXISTING DATA IS FOR AIR BALANCING REFERENCE ONLY.

ROOF TOP UNIT CHEDULE (EXISTING TO REMAIN) - FOR REFERENCE ONLY

DESIGNATION	TYPE	SERVE	CFM	OUTSIDE AIR CFM	FAN H.P.
2004					
EX. RTU-1	CAV	AREA D - LIBRARY	5,000	750	5.0
EX.RTU-2	CAV	AREA D - LIBRARY	5,000	750	5.0
EX.RTU-3	CAV	AREA D - BOYS PE	4,000	600	5.0
EX.RTU-4	CAV	AREA D - BOYS ATHLETICS	4,000	600	5.0
EX.RTU-5	CAV	AREA C - AUXILIARY GYM	5,000	750	5.0
EX.RTU-6	CAV	AREA C - AUXILIARY GYM	5,000	750	5.0
EX.RTU-7	CAV	AREA C - GIRLS P.E., RR, STO., GIRLS ATHLETICS	3,600	600	3.0
EX.RTU-8	CAV	AREA C - POOL BOYS & GIRLS RR & SHOWER	1,900	300	3.0

1. EXISTING DATA IS FOR AIR BALANCING REFERENCE ONLY.

ISSUE FOR PROPOSAL

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/M23_220023_CFISD_Arnold MS.rvt

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PBK

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MEP
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THEATER
CONSULTANT NAME
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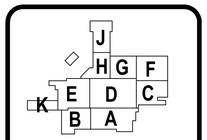
FOOD SERVICE
CONSULTANT NAME
T 000-000-0000
OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

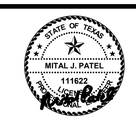
Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE



2/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
2/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

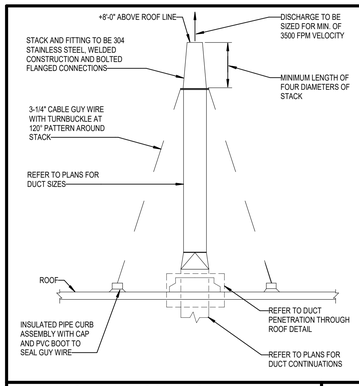
BUILDING NUMBER

MECHANICAL SCHEDULES

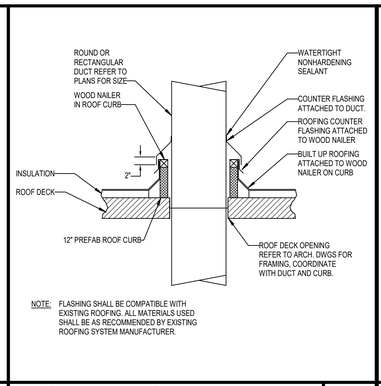
M-503

MECHANICAL DETAILS
M-601
FOR BLUEBEAM LABELING:

ISSUE FOR PROPOSAL

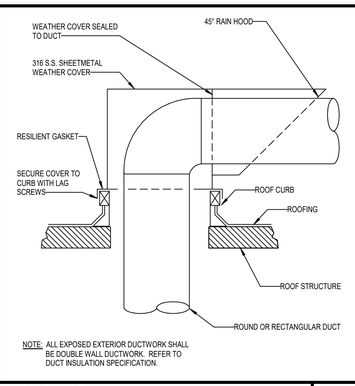


EXHAUST FAN DISCHARGE STACK DETAIL — 16
NOT TO SCALE



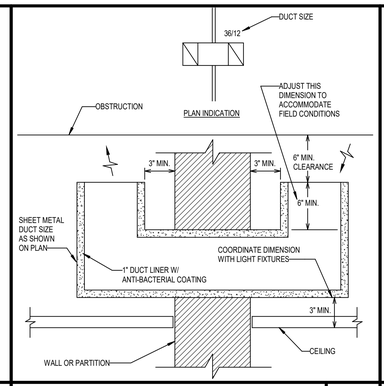
NOTE: FLASHING SHALL BE COMPATIBLE WITH EXISTING ROOFING. ALL MATERIALS USED SHALL BE AS RECOMMENDED BY EXISTING ROOFING SYSTEM MANUFACTURER.

DUCT PENETRATION THROUGH ROOF DETAIL — 15
NOT TO SCALE

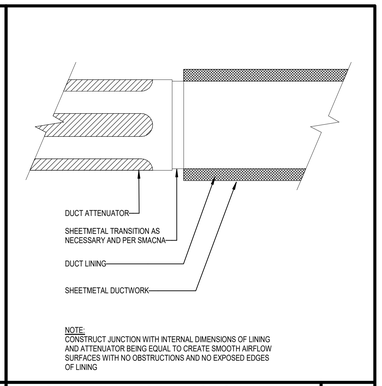


NOTE: ALL EXPOSED EXTERIOR DUCTWORK SHALL BE DOUBLE WALL DUCTWORK. REFER TO DUCT INSULATION SPECIFICATION.

ROOF HOOD DUCT PENETRATION DETAIL — 14
NOT TO SCALE

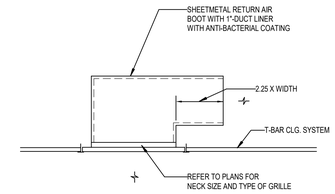


TRANSFER DUCT DETAIL — 13
NOT TO SCALE



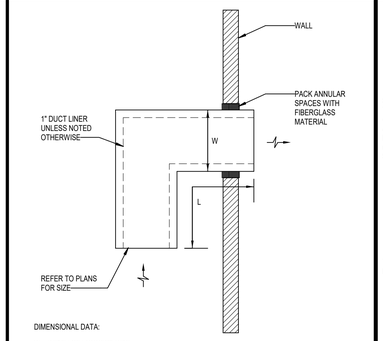
NOTE: CONSTRUCT JUNCTION WITH INTERNAL DIMENSIONS OF LINING AND ATTENUATOR BEING EQUAL TO CREATE SMOOTH AIRFLOW SURFACES WITH NO OBSTRUCTIONS AND NO EXPOSED EDGES OF LINING

DUCT ATTENUATOR JUNCTION WITH LINED DUCTWORK DETAIL — 12
NOT TO SCALE



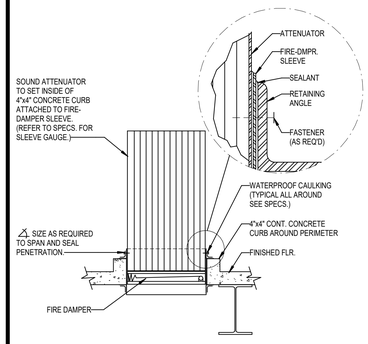
NOTES:
1. PROVIDE BOOT ON RETURN AIR GRILLES LOCATED IN OFFICES, CONFERENCE ROOMS, OPEN OFFICES AND ANY OTHER SOUND RATED AREAS. RE: ARCH. DWGS. FOR SOUND RATED ROOMS.
2. SIZE DISCHARGE SIDE OF BOOT FOR A MAXIMUM VELOCITY OF 500 FPM.

RETURN AIR BOOT FOR SOUND CRITICAL ROOMS DETAIL — 11
NOT TO SCALE

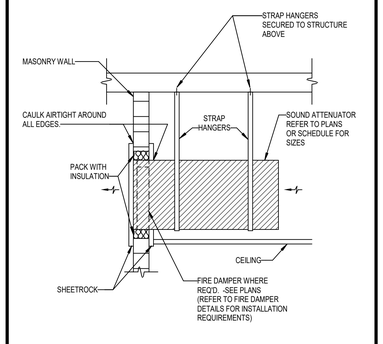


DIMENSIONAL DATA:
W = WIDTH OF LONGEST SIDE
L = THROAT LENGTH
L = 2.25 x W

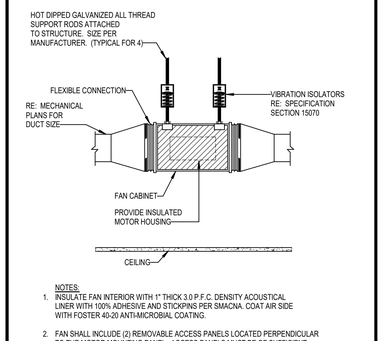
SOUND ATTENUATION AIR TRANSFER ELBOW DETAIL — 10
NOT TO SCALE



SOUND ATTENUATOR THROUGH FLOOR DETAIL — 09
NOT TO SCALE

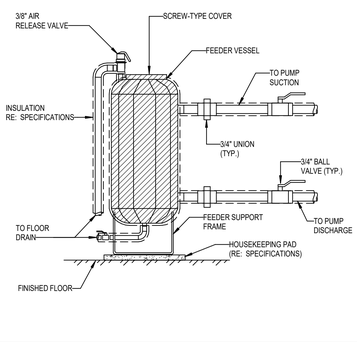


SOUND ATTENUATOR THROUGH WALL DETAIL — 08
NOT TO SCALE

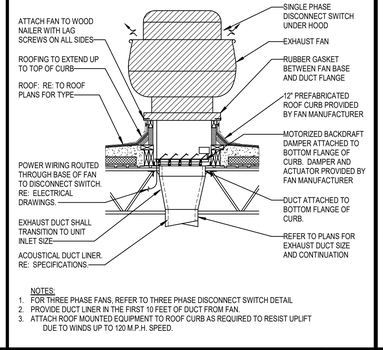


NOTES:
1. INSULATE FAN INTERIOR WITH 1" THICK 3.0 P.F.C. DENSITY ACOUSTICAL LINER WITH 100% ADHESIVE AND STICKPINS PER SMACNA. COAT AIR SIDE WITH FOSTER 40-20 ANTI-MICROBIAL COATING.
2. FAN SHALL INCLUDE (2) REMOVABLE ACCESS PANELS LOCATED PERPENDICULAR TO THE MOTOR MOUNTING PANEL. ACCESS PANELS MUST BE OF SUFFICIENT SIZE TO PERMIT EASY ACCESS TO ALL INTERIOR COMPONENTS.

IN-LINE EXHAUST FAN DETAIL — 07
NOT TO SCALE

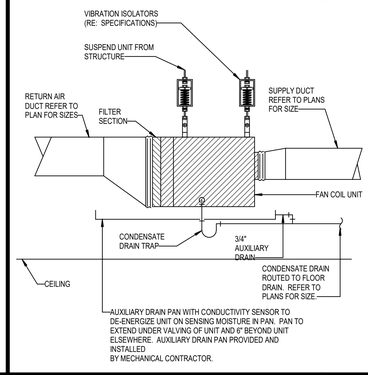


CHEMICAL SHOT FEEDER PIPING DETAIL — 06
NOT TO SCALE

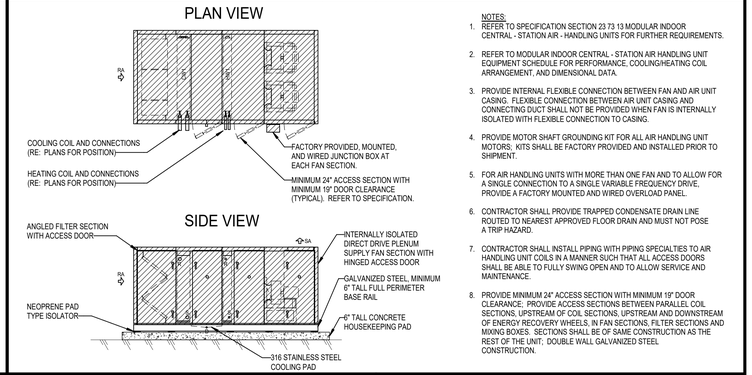


NOTES:
1. FOR THREE PHASE FANS, REFER TO THREE PHASE DISCONNECT SWITCH DETAIL
2. PROVIDE DUCT LINER IN THE FIRST 10 FEET OF DUCT FROM FAN.
3. ATTACH ROOF MOUNTED EQUIPMENT TO ROOF CURB AS REQUIRED TO RESIST UPLIFT DUE TO WINDS UP TO 120 M.P.H. SPEED.

UPBLAST ROOF MOUNTED EXHAUST FAN DETAIL — 05
NOT TO SCALE

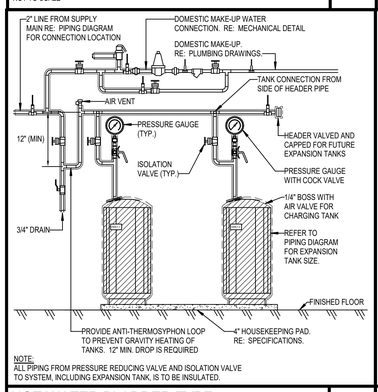


FAN COIL UNIT DETAIL — 04
NOT TO SCALE



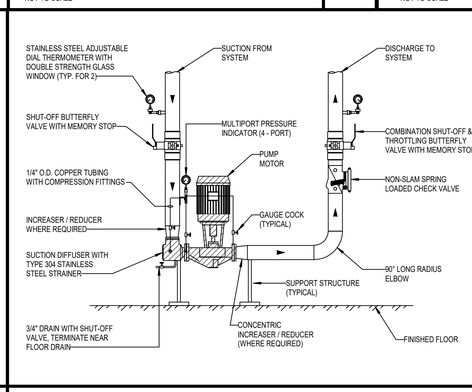
NOTES:
1. REFER TO SPECIFICATION SECTION 23 73 13 MODULAR INDOOR CENTRAL - STATION AIR - HANDLING UNITS FOR FURTHER REQUIREMENTS.
2. REFER TO MODULAR INDOOR CENTRAL - STATION AIR HANDLING UNIT EQUIPMENT SCHEDULE FOR PERFORMANCE, COOLING/HEATING COIL ARRANGEMENT, AND DIMENSIONAL DATA.
3. PROVIDE INTERNAL FLEXIBLE CONNECTION BETWEEN FAN AND AIR UNIT CASING. FLEXIBLE CONNECTION BETWEEN AIR UNIT CASING AND CONNECTING DUCT SHALL NOT BE PROVIDED WHEN FAN IS INTERNALLY ISOLATED WITH FLEXIBLE CONNECTION TO CASING.
4. PROVIDE MOTOR SHAFT GROUNDING KIT FOR ALL AIR HANDLING UNIT MOTORS. KITS SHALL BE FACTORY PROVIDED AND INSTALLED PRIOR TO SHIPMENT.
5. FOR AIR HANDLING UNITS WITH MORE THAN ONE FAN AND TO ALLOW FOR A SINGLE CONNECTION TO A SINGLE VARIABLE FREQUENCY DRIVE, PROVIDE A FACTORY MOUNTED AND WIRED OVERLOAD PANEL.
6. CONTRACTOR SHALL PROVIDE TRAPPED CONDENSATE DRAIN LINE ROUTED TO NEAREST APPROVED FLOOR DRAIN AND MUST NOT POSE A TRIP HAZARD.
7. CONTRACTOR SHALL INSTALL PIPING WITH PIPING SPECIALTIES TO AIR HANDLING UNIT COILS IN A MANNER SUCH THAT ALL ACCESS DOORS SHALL BE ABLE TO FULLY SWING OPEN AND TO ALLOW SERVICE AND MAINTENANCE.
8. PROVIDE MINIMUM 24" ACCESS SECTION WITH MINIMUM 19" DOOR CLEARANCE; PROVIDE ACCESS SECTIONS BETWEEN PARALLEL COIL SECTIONS, UPSTREAM OF COIL SECTIONS, UPSTREAM AND DOWNSTREAM OF ENERGY RECOVERY WHEELS, IN FAN SECTIONS, FILTER SECTIONS AND MIXING BOXES. SECTIONS SHALL BE OF SAME CONSTRUCTION AS THE REST OF THE UNIT; DOUBLE WALL GALVANIZED STEEL CONSTRUCTION.

TYPICAL MODULAR INDOOR CENTRAL - STATION AIR - HANDLING UNIT DETAIL — 03
NOT TO SCALE



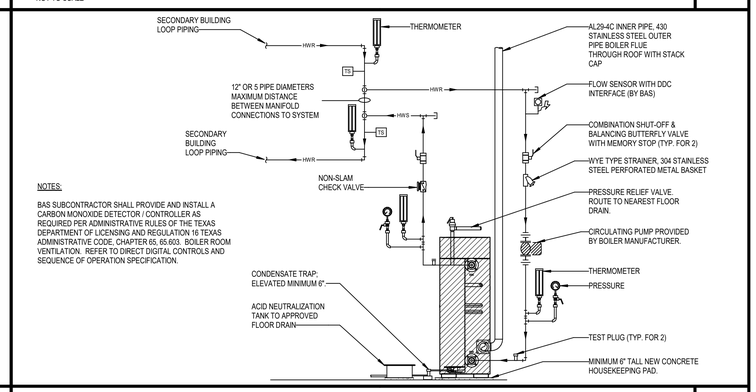
NOTE: ALL PIPING FROM PRESSURE REDUCING VALVE AND ISOLATION VALVE TO SYSTEM, INCLUDING EXPANSION TANK, IS TO BE INSULATED.

HOT WATER BLADDER TYPE EXPANSION TANK PIPING DETAIL — 03
NOT TO SCALE



NOTES:
1. CHILLED WATER PUMPS SHALL BE INSULATED WITH RIGID INSULATION BOARD, TWO INCH THICK, CUT AND FORMED INTO A BOX AND SECURED IN PLACE WITH 3/4" WIDE x 0.20 GALVANIZED BANDS. REFER TO SPECIFICATION 23 07 16 FOR FURTHER PUMP INSULATION REQUIREMENTS.
2. BUTTERFLY AND CHECK VALVES SHALL BE LINE SIZE.
3. CONTRACTOR SHALL PROVIDE AND INSTALL MULTI-PORT (4 PORT) PRESSURE INDICATOR WITH 1/4" O.D. COPPER TUBING WITH COMPRESSION FITTINGS AND GAUGE COCKS.
4. PUMP SUCTION: SHUT-OFF BUTTERFLY VALVE WITH MEMORY STOP AND SUCTION DIFFUSER WITH TYPE 304 STAINLESS STEEL STRAINER.
5. PUMP DISCHARGE: PROVIDED THERMOMETER, COMBINATION SHUT-OFF / THROTTLING / BALANCING BUTTERFLY VALVE WITH MEMORY STOP, NON-SLAM SPRING LOADED CHECK VALVE AND 90° LONG RADIUS ELBOW.
6. BUTTERFLY VALVES SHALL BE PROVIDED WITH MEMORY STOP REGARDLESS OF SIZE. FOR BUTTERFLY VALVES LARGER THAN 6" PROVIDE HAND-WHEEL AND GEAR DRIVE WITH MEMORY STOP.
7. VALVES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO PERMIT REMOVAL OF BONNET.
8. PIPE HANGERS SHALL BE SIZED TO SUPPORT THE WEIGHT OF PUMP, PIPING AND FITTINGS.
9. THERMOMETERS SHALL BE ADJUSTABLE STAINLESS STEEL DIAL TYPE.

SPLIT - COUPLED VERTICAL IN - LINE PUMP PIPING DETAIL — 02
NOT TO SCALE



NOTES:
BAS SUBCONTRACTOR SHALL PROVIDE AND INSTALL A CARBON MONOXIDE DETECTOR / CONTROLLER AS REQUIRED PER ADMINISTRATIVE RULES OF THE TEXAS DEPARTMENT OF LICENSING AND REGULATION 16 TEXAS ADMINISTRATIVE CODE, CHAPTER 65, 65.603. BOILER ROOM VENTILATION. REFER TO DIRECT DIGITAL CONTROLS AND SEQUENCE OF OPERATION SPECIFICATION.

CONDENSING BOILER PIPING DETAIL — 01
NOT TO SCALE

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/M23_220023_CFISD_Arnold MS.rvt

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Plot Stamp: 2/13/2025 6:39:40 PM

PBK

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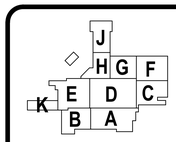
LANDSCAPE CONSULTANT NAME T 000-000-0000
STRUCTURAL CONSULTANT NAME T 000-000-0000
MEP/FP CONSULTANT NAME T 000-000-0000
ACOUSTIC CONSULTANT NAME T 000-000-0000
IRRIGATION CONSULTANT NAME T 000-000-0000
FOOD SERVICE CONSULTANT NAME T 000-000-0000
CONSULTANT CONSULTANT NAME T 000-000-0000

LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER
2/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

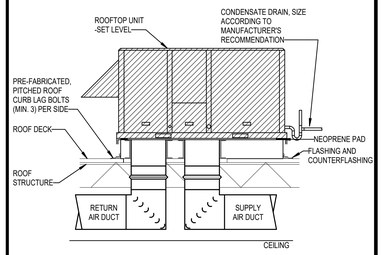
No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

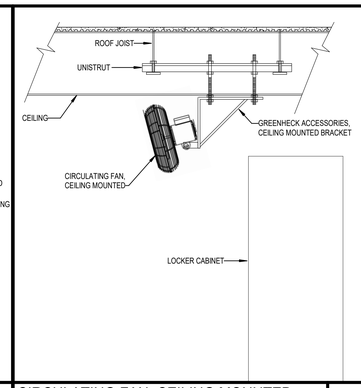
MECHANICAL DETAILS

M-601

ISSUE FOR PROPOSAL

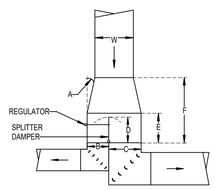


ROOFTOP AIR CONDITIONING UNIT DETAIL — 14
NOT TO SCALE

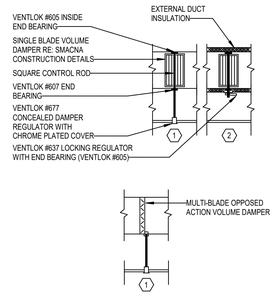


CIRCULATING FAN, CEILING MOUNTED DETAIL — 13
NOT TO SCALE

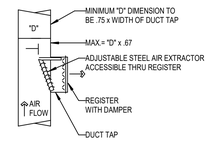
SPLITTER



DIMENSIONS
1. ANGLE 'A' TO BE 15° OR LESS (BOTH SIDES)
2. SEE FLOOR PLANS FOR B, C, & W.
3. SPLITTER DAMPER LENGTH D = 1.5 x B
4. E = D + 3" MINIMUM
5. VERTICAL DIMENSION TO BE MAINTAINED THRU F.
6. CHANGE IN VERTICAL DIMENSION TO OCCUR AFTER TURNS.

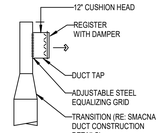


AIR EXTRACTOR AT SIDEWALL REGISTER

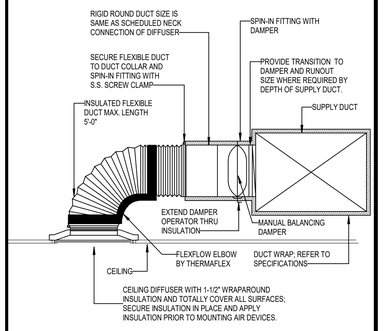


1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN. = 4")

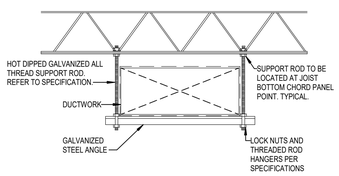
SIDEWALL REGISTER AT END OF DUCT



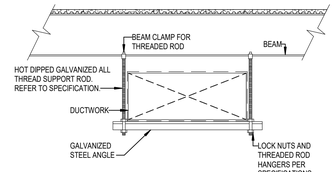
DUCT CONSTRUCTION DETAIL — 10
NOT TO SCALE



CEILING DIFFUSER CONNECTION DETAIL — 12
NOT TO SCALE

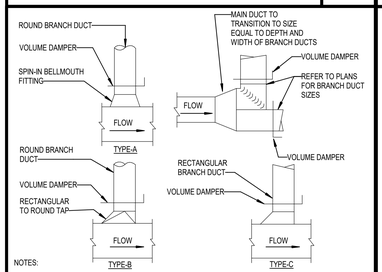


NOTES:
1. FOLLOW SMACNA GUIDELINES FOR SPACING REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN STRUCTURAL ENGINEER APPROVAL FOR ANY AND ALL DUCTWORK MOUNTING DETAILS AT CONCRETE.
3. CONTRACTOR SHALL INSTALL DUCT HANGER ROD WITHIN 3" AT JOIST BOTTOM CHORD PANEL POINT. IF HANGER ROD DOES NOT OCCUR WITHIN 3" AT BOTTOM CHORD PANEL POINT THAN LOAD SHALL NOT EXCEED 100# CONCENTRATED LOAD AT EACH THREADED ROD HANGER LOCATION.
4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL JOIST REINFORCEMENTS REQUIREMENTS IF DUCT HANGER RODS ARE MORE THAN 3" FROM JOIST BOTTOM CHORD PANEL POINT AND EXCEED 100# CONCENTRATED LOAD.
5. IF DUCT RUNS PARALLEL WITH STRUCTURE, PROVIDE SECURED UNISTRUT HEADER LAID ACROSS MULTIPLE JOISTS MOUNTED TO JOIST BOTTOM CHORD.
6. BEAM CLAMPS AND FLANGE CLIPS ARE NOT ACCEPTABLE FOR JOISTS.



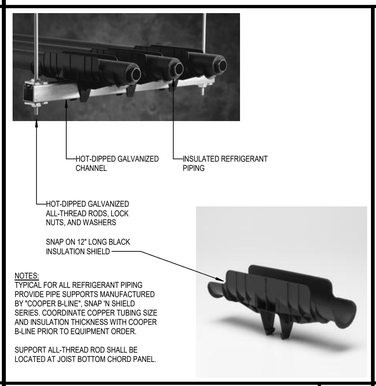
NOTES:
1. FOLLOW SMACNA GUIDELINES FOR SPACING REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN STRUCTURAL ENGINEER APPROVAL FOR ANY AND ALL DUCTWORK MOUNTING DETAILS AT CONCRETE.

DUCT HANGER TRAPEZE DETAIL — 11
NOT TO SCALE



NOTES:
1. USE TYPE "A" CONNECTION ONLY FOR BRANCHES TO SINGLE DIFFUSERS, TERMINAL BOXES OR GRILLES FROM THE MAIN.
2. USE TYPE "B" OR "C" BRANCH WHERE BRANCH FLOW IS 20% OR LESS OF MAIN.
3. NO DAMPERS ARE REQ'D ON VAV SYSTEMS BETWEEN AIR HANDLING UNIT AND VAV TERMINAL BOXES.
4. USE TEE SPLIT WHERE BRANCH FLOW IS MORE THAN 20% OF MAIN.
5. FOR TYPE "A" CONNECTION TO DIFFUSERS, THE ROUND DUCT RUN-OUT SIZE SHALL BE THE SAME SIZE AS THE NECK OF DIFFUSER, UNLESS OTHERWISE INDICATED.
6. PROVIDE VOLUME DAMPERS ON SUPPLY, OUTSIDE AIR, RETURN AND EXHAUST DUCT SYSTEMS AS SHOWN.

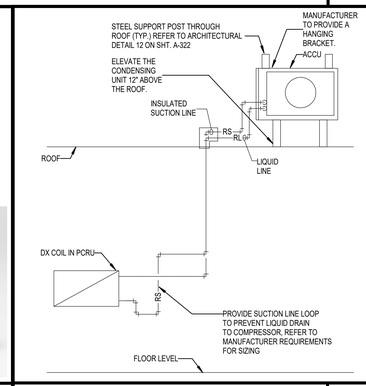
BRANCH DUCT DETAILS — 09
NOT TO SCALE



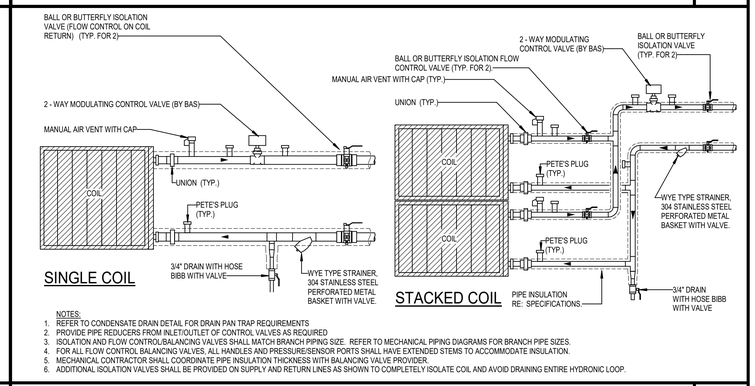
NOTES:
TYPICAL FOR ALL REFRIGERANT PIPING PROVIDE PIPE SUPPORTS MANUFACTURED BY "COOPER B-LINE", SNAP 'N SHIELD SERIES. COORDINATE COPPER TUBING SIZE AND INSULATION THICKNESS WITH COOPER B-LINE PRIOR TO EQUIPMENT ORDER.

SUPPORT ALL-THREAD ROD SHALL BE LOCATED AT JOIST BOTTOM CHORD PANEL.

SNAP 'N SHIELD REFRIGERANT PIPING SUPPORT DETAIL — 08
NOT TO SCALE

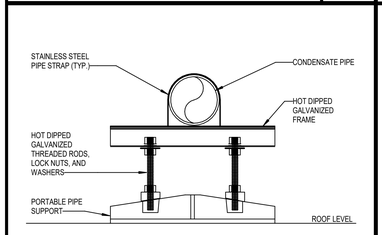


REFRIGERANT PIPING - ROOF ACCU DETAIL — 07
NOT TO SCALE



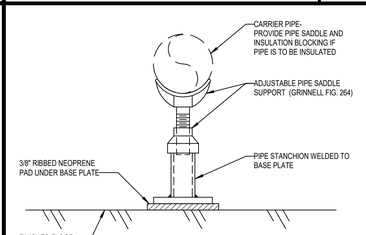
NOTES:
1. REFER TO CONDENSATE DRAIN DETAIL FOR DRAIN PAN TRAP REQUIREMENTS
2. PROVIDE PIPE REDUCERS FROM INLET/OUTLET OF CONTROL VALVES AS REQUIRED
3. ISOLATION AND FLOW CONTROL/BALANCING VALVES SHALL MATCH BRANCH PIPING SIZE. REFER TO MECHANICAL PIPING DIAGRAMS FOR BRANCH PIPE SIZES.
4. FOR ALL FLOW CONTROL BALANCING VALVES, ALL HANDLES AND PRESSURE/SENSOR PORTS SHALL HAVE EXTENDED STEMS TO ACCOMMODATE INSULATION.
5. MECHANICAL CONTRACTOR SHALL COORDINATE PIPE INSULATION THICKNESS WITH BALANCING VALVE PROVIDER.
6. ADDITIONAL ISOLATION VALVES SHALL BE PROVIDED ON SUPPLY AND RETURN LINES AS SHOWN TO COMPLETELY ISOLATE COIL AND AVOID DRAINING ENTIRE HYDRONIC LOOP.

COIL PIPING ACCESSORIES WITH 2-WAY CONTROL VALVE CONNECTION DETAIL — 06
NOT TO SCALE



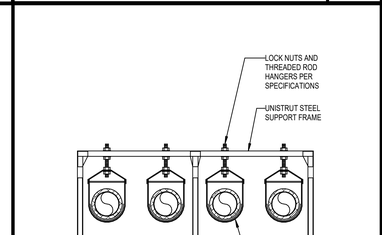
NOTES:
1. PORTABLE PIPE SUPPORTS SHALL BE MANUFACTURED BY PHP ONLY.
2. ALL METALS MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
3. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

CONDENSATE PIPE SUPPORT DETAIL — 05
NOT TO SCALE



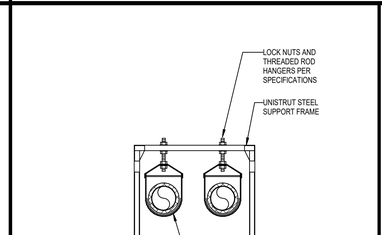
BASE PLATE DIMENSIONS		
PIPE SIZE	PIPE STANCHION SIZE	BASE PLATE SIZE
2 1/2" - 3"	2 1/2"	3/8"x6"x6"
4" - 12"	3"	3/8"x8"x8"
14" - 16"	4"	3/8"x5"x6"
18" - 36"	6"	3/8"x10"x10"

FLOOR MOUNTED PIPE STAND DETAIL — 04
NOT TO SCALE



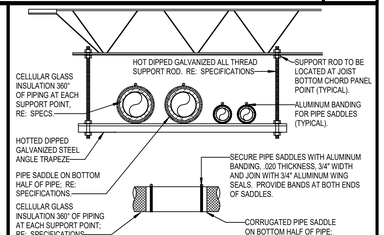
NOTE:
1. SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 10'-0" ON CENTER.
2. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

ROOF MOUNTED PORTABLE PIPE SUPPORT(4-PIPE CLEVIS HANGER) — 03
NOT TO SCALE



NOTE:
1. SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 10'-0" ON CENTER.
2. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

ROOF MOUNTED PORTABLE PIPE SUPPORT (2-PIPE CLEVIS HANGER) — 02
NOT TO SCALE



NOTES:
1. REFER TO SPECIFICATIONS FOR SPACING AND VIBRATION ISOLATION REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN STRUCTURAL ENGINEER APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS AT CONCRETE OR STEEL STRUCTURE
3. IF PIPE RUNS PARALLEL WITH STRUCTURE, PROVIDE SECURED UNISTRUT HEADER LAID ACROSS MULTIPLE JOISTS MOUNTED TO JOIST BOTTOM CHORD.
4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL JOIST REINFORCEMENTS REQUIRED IF PIPE HANGER LOADS DO NOT OCCUR AT JOIST BOTTOM CHORD PANEL POINTS.
5. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/MODIFICATIONS.

PIPE HANGER TRAPEZE DETAIL — 01
NOT TO SCALE

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LANDSCAPE
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STRUCTURAL
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MEP
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ACOUSTIC
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FIRE/LIFE
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FOOD SERVICE
CONSULTANT NAME
T 000-000-0000
OTHER
CONSULTANT NAME
T 000-000-0000
LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
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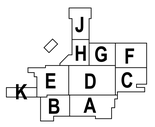
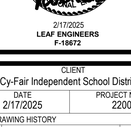


KEY PLAN
NORTH: PLAN TRUE



2/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District
DATE 2/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

MECHANICAL DETAILS

M-602

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ELECTRICAL SITE PLAN - COMPOSITE

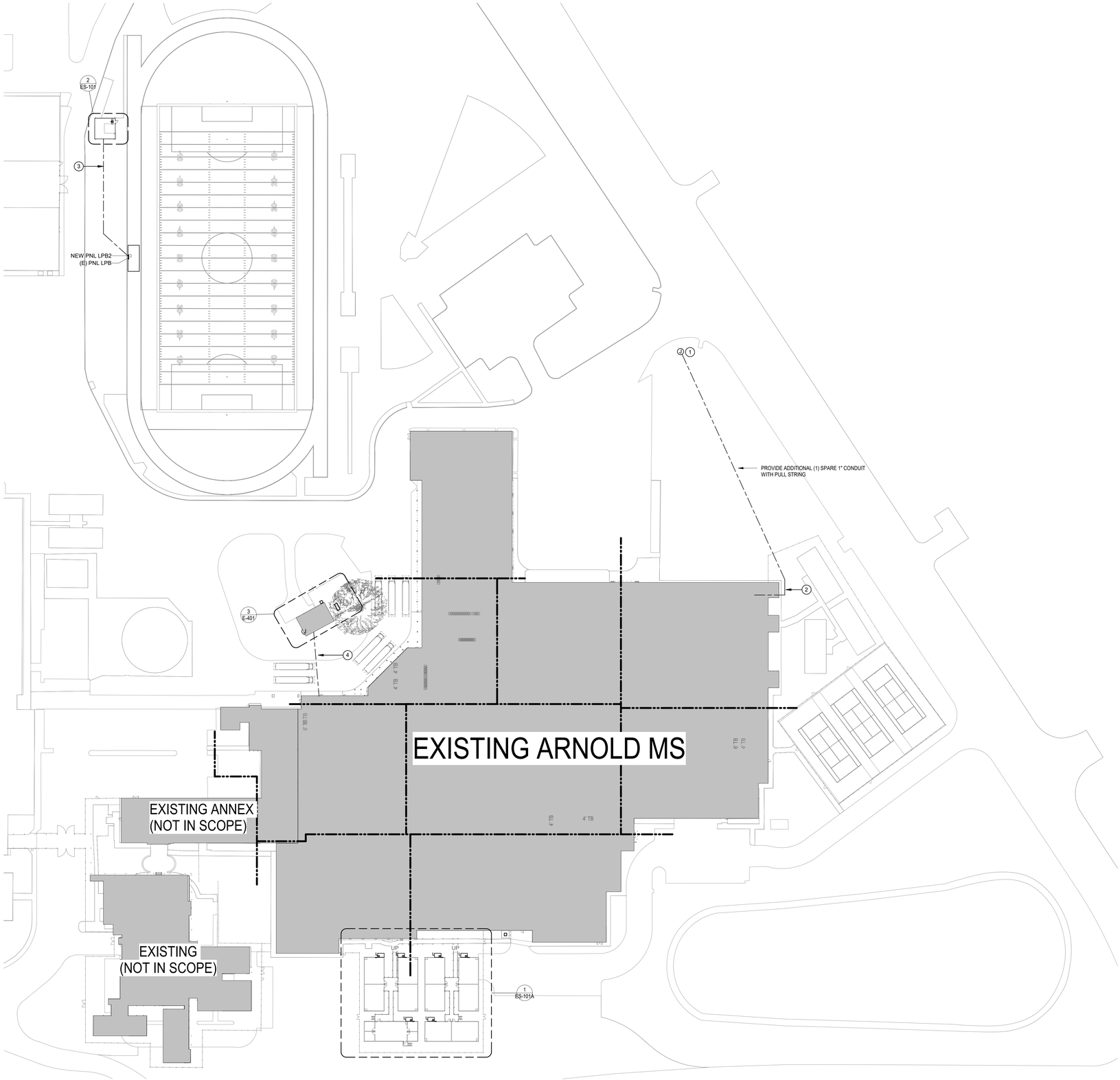
ES-101

FOR BLUEBEAM LABELING/OCR:

0"

1"

ISSUE FOR PROPOSAL



1 ELECTRICAL SITE PLAN - COMPOSITE

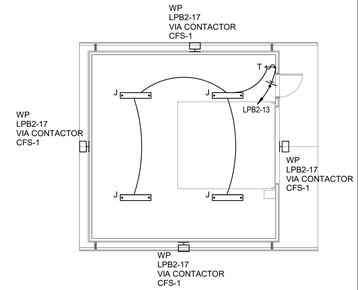
SCALE: 1" = 50'-0"

SITE PLAN GENERAL NOTES:

1. COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
2. UNLESS NOTED OTHERWISE ALL UNDERGROUND CONDUIT SHOWN ON THIS PLAN TO BE MINIMUM 1" IN SIZE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.
4. ALL CONDUIT 90 DEGREE ELBOWS AT ALL UNDERGROUND RACEWAY STUB UPS SHALL BE RIGID CONDUIT.

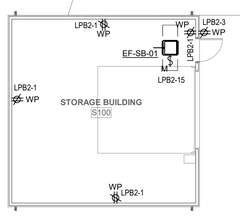
SITE PLAN KEYED NOTES:

1. PROVIDE POWER TO MONUMENT SIGN WITH (2)#6, 1#6G, 1"C . PROVIDE (1) 2P/WP SWITCH IN NEMA 4, MILD STEEL JUNCTION BOX, 12"x12"x4", RECESSED 1-3/4", PAINTED BLACK WITH PADLOCK ADAPTOR. HAMMOND MANUFACTURING #EJ12124 WITH #EJPA OR APPROVED EQUAL. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
2. POWER TO MONUMENT SIGN. ROUTE UNDERGROUND TO MONUMENT SIGN LOCATION.
3. EXISTING PANELBOARD LPB IS LOCATED IN PRESSBOX ELECTRICAL ROOM. PROVIDE NEW SUB-FEED PANEL LPB2 FED FROM AND LOCATED ADJACENT TO EXISTING PANELBOARD LPB. PROVIDE 50A/3P SUBFEED BREAKER IN SPACE OF EXISTING PANELBOARD LPB. PROVIDE CIRCUITS FROM THIS NEW PANEL TO NEW STORAGE BUILDING NOTED. STUB OUT CONDUIT AT EXTERIOR WALL OF PRESSBOX, ROUTE CONDUIT ALONG EXTERIOR STRUCTURE AND DOWN STRUCTURAL COLUMN TO GROUND LEVEL. TRENCH BRANCH CIRCUITS TO STROAGE BUILDING. SAWCUT EXISTING PAVEMENT AS REQUIRED FOR NEW TRENCH. PATCH, FILL, AND REPAIR SURFACES BACK TO ORIGINAL CONDITION.
4. PATH OF NEW FEEDERS SERVING EMERGENCY DISRIBUTION EQUIPMENT, SAWCUT DRIVEWAY AS REQUIRED.
5.



3 1ST LEVEL LIGHTING PLAN - STORAGE BUILDING

SCALE: 1/8" = 1'-0"



2 1ST LEVEL POWER PLAN - STORAGE BUILDING

SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

Arnold Middle School

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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
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KEY PLAN

NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

ELECTRICAL SITE PLAN - COMPOSITE

ES-101

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ELECTRICAL SITE PLAN PORTABLES
ES-101A
FOR BLUEBEAM LABELING:OCR:

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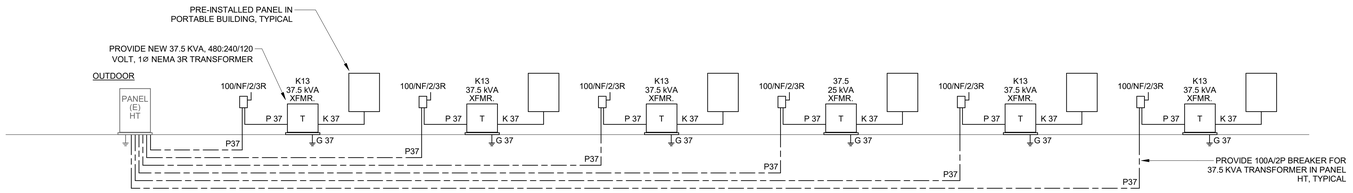
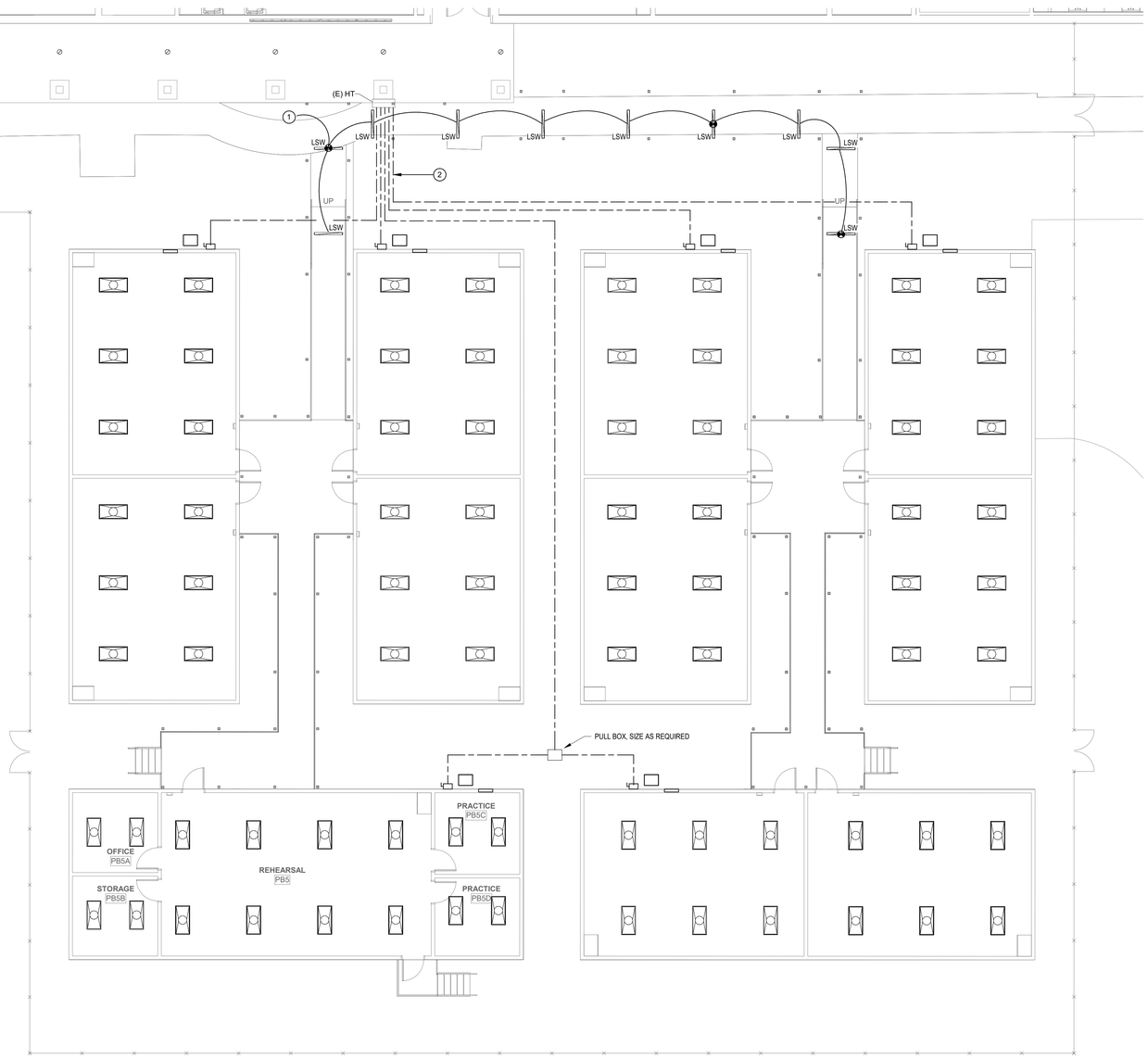


2 ELECTRICAL PARTIAL RISER DIAGRAM - PORTABLES
SCALE: 1/8" = 1'-0"



1 ELECTRICAL SITE PLAN - PORTABLES
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A", ALL EXIT SIGNS ARE TYPE "X".
3. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY/VACANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO ROOM CONTROLLERS, WIRING, ETC. PROVIDE A COMPLETE SYSTEM OF WATTSTOPPER DLM LIGHTING CONTROLS. RE: DIVISION 26 SPECIFICATIONS AND ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
4. REMOVE ALL SWITCHES FROM CORRIDORS AND REPLACE WITH BLANK COVER PLATES EXCEPT AT SECURITY PANELS. REFER TO PLANS FOR LOCATION(S) OF SWITCHES AT SECURITY PANELS.
5. REMOVE EXISTING SWITCHES FROM GANG RESTROOMS AND REPLACE WITH BLANK COVER PLATE TO BE CONNECTED TO CORRIDOR LIGHTING CONTROLS.
6. PROVIDE A GREEN DOT (STICKER) ON CEILING GRID UNDERNEATH ALL ROOM CONTROLLERS SERVING CORRIDOR LIGHTING.
7. CORRIDOR LIGHTING CONTROL SHALL HAVE THE FOLLOWING FUNCTIONALITY:
   A. MASTER SWITCHES TO BE LOCATED AT SECURITY KEYPADS SHALL TURN ON ALL CORRIDORS AT ONCE.
   B. BUILDING SHALL OPERATE BY ZONES - DURING OCCUPIED HOURS, OCCUPANCY SENSOR SHALL TURN ON LIGHTING BUT NOT OFF.
   C. DURING UNOCCUPIED HOURS, OPERATES BASED ON SENSOR ONLY.
8. WHERE FEWER SWITCHES ARE REQUIRED THAN EXISTING, PROVIDE DRYWALL TRIM RING CORRESPONDING TO NUMBER OF SWITCHES SHOWN ON THESE PLANS, AND PATCH AND PAINT OPENING. EX: CLASSROOMS
9. WHERE ACCESSIBLE CEILING HEIGHTS ARE 12-FEET AFF OR LESS, ROOM CONTROLLERS AND ASSOCIATED HARDWARE SHALL BE MOUNTED ON 2' X 2' X ¼-INCH BACK BOARD OF NON-NOMBUSTIBLE MATERIALS, ON WALL ABOVE LOCAL CONTROL SWITCH LOCATION, BETWEEN 4 AND 18-INCHES ABOVE THE ACCESSIBLE CEILING AND 2-INCHES CLEAR OF T-GRID FOR ABOVE CEILING ACCESS. THE CONTRACTOR SHALL NOT PAINT THE BACKBOARD, NOR SHALL THE UL LISTING LABELING BE OBSCURED. LABEL CEILING GRID BELOW ALL ROOM CONTROLLERS.
10. WHERE CEILING HEIGHTS ARE ABOVE 12-FEET, ROOM CONTROLLERS SHALL BE MOUNTED IN AN ANCILLARY AREA WITH ACCESSIBLE CEILING OF 12-FEET OR LESS WITH THE HIGH CEILING ROOM CONTROLLER MOUNTED ADJACENT TO THE LOWER CEILING ROOM CONTROLLER SERVING THE ANCILLARY AREA. THE ROOM CONTROLLER FOR THE HIGH CEILING AND ANCILLARY AREA(S) MAY UTILIZE THE SAME ROOM CONTROLLER FOR EACH AREA IF PRACTICAL. IF AN ANCILLARY AREA WITH LOW ACCESSIBLE CEILING AREA IS NOT AVAILABLE, THE ROOM CONTROLLER SHALL BE INSTALLED IN THE SAME MECHANICAL OR ELECTRICAL ROOM AS THE ELECTRICAL PANEL SERVING THE LIGHTING FOR THAT AREA AND CLEARLY LABELED FOR ITS USE AND SPECIFIC ROOM THAT IT CONTROLS. LABEL CEILING GRID BELOW ALL ABOVE CEILING ROOM CONTROLS, SEE BELOW FOR LABELING REQUIREMENTS.
11. CORRIDORS, GYMS, AND OTHER HIGH-VOLUME SPACES WITHOUT LOW CEILING ANCILLARY AREAS: DLM ROOM CONTROLLERS SHALL BE LOCATED IN THE MECHANICAL/ELECTRICAL ROOM WHERE THE LIGHTING BRANCH CIRCUIT ORIGINATES, PREFERABLY NEXT TO THE NORMAL LIGHTING PANEL SERVING THE SPACE. WALL MOUNT TOP OF ENCLOSURE BETWEEN 36 AND 78-INCHES, STACK MULTIPLE ENCLOSURES TO CONSERVE WALL SPACE. PROVIDE EASILY IDENTIFIABLE LABELED ENCLOSURE FOR WALL MOUNTED DLM ROOM CONTROLLER. LABEL CEILING GRID BELOW ALL ABOVE CEILING ROOM CONTROLS. SEE BELOW FOR LABELING REQUIREMENTS.INCLUDE IN BID 10 ADDITIONAL EMERGENCY LIGHTING FIXTURES AND 10 EXIT SIGNS, LOCATION TO BE DETERMINED DURING CONSTRUCTION.
12. ANY WIRING SERVING THE LIGHTING OR LIGHTING CONTROL SYSTEM SHALL BE IN CONDUIT. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED. REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

LIGHTING PLAN KEYED NOTES:

(1) CIRCUIT TO NEAREST AVAILABLE 277V LIGHTING CLASS PANEL BOARD. PROVIDE (1) 277V CIRCUIT VIA 20A/1P BREAKER 2#10, 1#12G, 3/4"C. PROVIDE 20A LIGHTING CONTACTOR TO CONTROL CANOPY LIGHTING VIA PHOTOCELL ONITMECLOCK OFF. CONTACTOR TO BE LOCATED IN ROOM OF SERVING LIGHTING CLASS PANEL BOARD.

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH "TS" DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

(2) PROVIDE FEEDERS TO PORTABLE BUILDINGS FROM EXISITNG PANEL "HT" . PROVIDE 100A/480V 1-PHASE CIRCUIT FOR EACH (1) PORTABLE. PROVIDE MINIMUM 100A FEEDER OF SIZE: 4#1, 1#8G, 1-1/2"C. CONTRACTOR SHALL ROUTE IN UNDERGROUND TRENCH TO EACH PORTABLE. BORE UNDERNEATH EXISTING PAVEMENT AS REQUIRED. SAW/CUT AS REQUIRED. FILL TRENCH AND REPAIR EXISTING PAVEMENT AS REQUIRED. FIELD VERIFY EXACT ROUTING OF FEEDERS. PROVIDE PULLBOXES AS REQUIRED, SIZE PER NEC. PROVIDE 100A/2P BREAKER FOR EACH CIRCUIT IN SOURCE PANELBOARD.

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LEAF ENGINEERS

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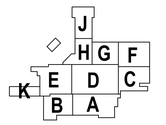

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ELECTRICAL SITE PLAN PORTABLES

ES-101A

ISSUE FOR PROPOSAL

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1ST LEVEL POWER DEMO PLAN - AREA A

ED-101A

FOR BLUEBEAM LABELING/OCR:

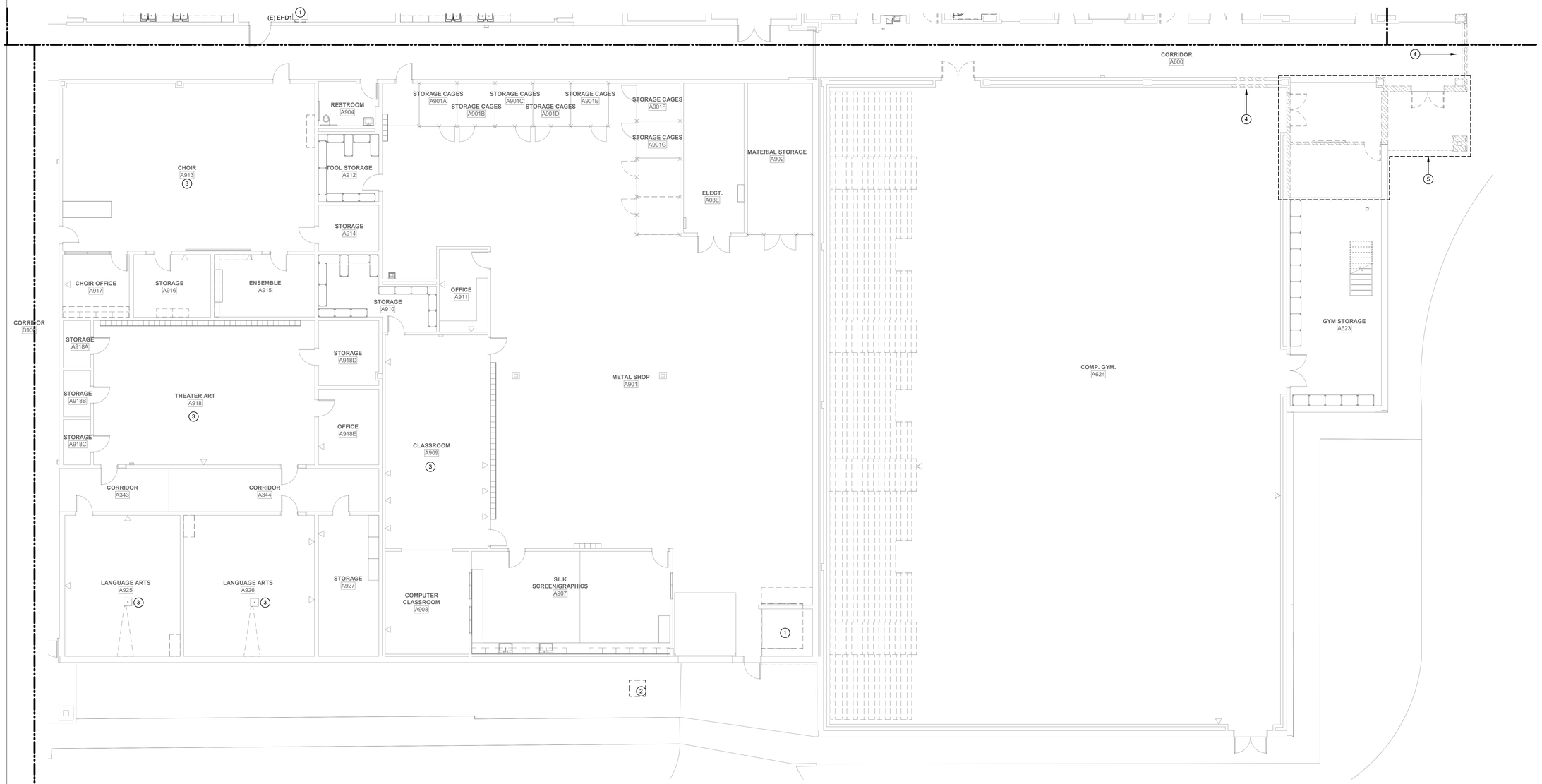
ISSUE FOR PROPOSAL

DEMOLITION PLAN GENERAL NOTES:

1. ALL ITEMS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. PRIOR TO DEMOLITION OF ANY ELECTRICAL EQUIPMENT AND OR CONDUIT, CONTRACTOR SHALL FIELD VERIFY AND DOCUMENT EXISTING BRANCH CIRCUIT INFORMATION INCLUDEING BUT NOT LIMITED TO CIRCUIT BREAKER, CONDUCTORS, CONDUIT, PHASE AND VOLTAGE.
2. DISCONNECT AND REMOVE ALL WIRING, CONDUIT, DISCONNECTS, AND OTHER DEVICES ASSOCIATED WITH MECHANICAL AND PLUMBING EQUIPMENT BEING REMOVED. LABEL SOURCE BREAKER(S) "SPARE" IN PANEL. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF ALL HVAC AND PLUMBING EQUIPMENT TO BE DEMOLISHED.
3. REMOVE ALL WIRING, CONDUIT AND ASSOCIATED DEVICES IN WALLS TO BE REMOVED. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES WHICH REMAIN.
4. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER.
5. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
6. WHEN REMOVING EXISTING ELECTRICAL WORK SUCH AS RECEPTACLES, LIGHT FIXTURES,ETC. WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY.
7. EXISTING ELECTRICAL BOXES TO REMAIN IN AREAS WHERE NEW WALL FINISHES ARE TO BE APPLIED SHALL BE RESET AS NECESSARY TO PROVIDE FLUSH MOUNTING FOR BOXES.
8. CONTRACTOR SHALL FIELD VERIFY EXISITNG BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT.
9. CONTRACTOR SHALL REFER TO ARCHITECT DEMOLITION PLANS AND PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF THE SCOPE OF THE PROJECT PRIOR TO COMMENCEMENT OF WORK.
10. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, ALL STATE AND LOCAL CODES AND AMENDMENTS.
11. WHERE ELECTRICAL EQUIPMENT IS BEING DEMOED AND REPLACED; CONTRACTOR SHALL ENSURE THAT EXISING SERVING FEEDERS AND WIRING ARE EXTENDED AND RECONNECTED TO NEW BREKERS WITHIN NEW ELECTRICAL EQUIPMENT AS NECESSARY.

DEMOLITION PLAN KEYED NOTES:

1. CONTRACTOR SHALL DEMO EXISTING PAINT BOOTH. CONTRACTOR SHALL DEMOLISH WIRE AND CONDUIT BACK TO POINT OF ORIGIN AND MAKE BREAK "SPARE" WHEN DEMOLITION IS COMPLETE. REFER TO POWER DRAWINGS FOR NEW PAINT BOOTH INFORMAITON.
2. CONTRACTOR SHALL DEMO DUST COLLECTOR. CONTRACTOR SHALL DEMOLISH WIRE AND CONDUIT BACK TO POINT OF ORIGIN AND MAKE BREAK "SPARE" WHEN DEMOLITION IS COMPLETE. REFER TO POWER DRAWINGS FOR NEW DUST COLLECTOR INFORMAITON.
3. CONTRACTOR SHALL DEMO ALL POWER AND LOW VOLTAGE DEVICES ASSOCATED WITH THIS PROJECTOR BACK TO NEAREST JUNCTION BOX. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES ON THIS CIRCUIT.
4. EXISTING EQUIPMENT FIXTURES AND BRANCH CIRCUITRY ASSOCIATED WITH THIS WALL TO BE DEMOLISHED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO. FIELD VERIFY ALL COMPONETS TO BE DEMOLISHED.
5. EXISTING EQUIPMENT FIXTURES AND BRANCH CIRCUITRY ASSOCIATED WITH THIS AREA TO BE DEMOLISHED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO. FIELD VERIFY ALL COMPONENTS TO BE DEMOLISHED.



1 1ST LEVEL POWER DEMO PLAN - AREA A
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MATTHEW R. SICKORE
107736
LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

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BUILDING NUMBER

1ST LEVEL POWER DEMO PLAN - AREA A

ED-101A

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1ST LEVEL POWER DEMO PLAN - AREA B
ED-101B
FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

1 1ST LEVEL POWER DEMO PLAN - AREA B
SCALE: 1/8" = 1'-0"

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DEMOLITION PLAN KEYED NOTES:

1. CONTRACTOR SHALL DEMO ALL POWER AND LOW VOLTAGE DEVICES ASSOCATED WITH THIS PROJECTOR BACK TO NEAREST JUNCTION BOX. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES ON THIS CIRCUIT.

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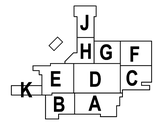
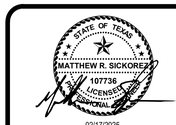


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
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F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST LEVEL POWER DEMO PLAN - AREA B

ED-101B

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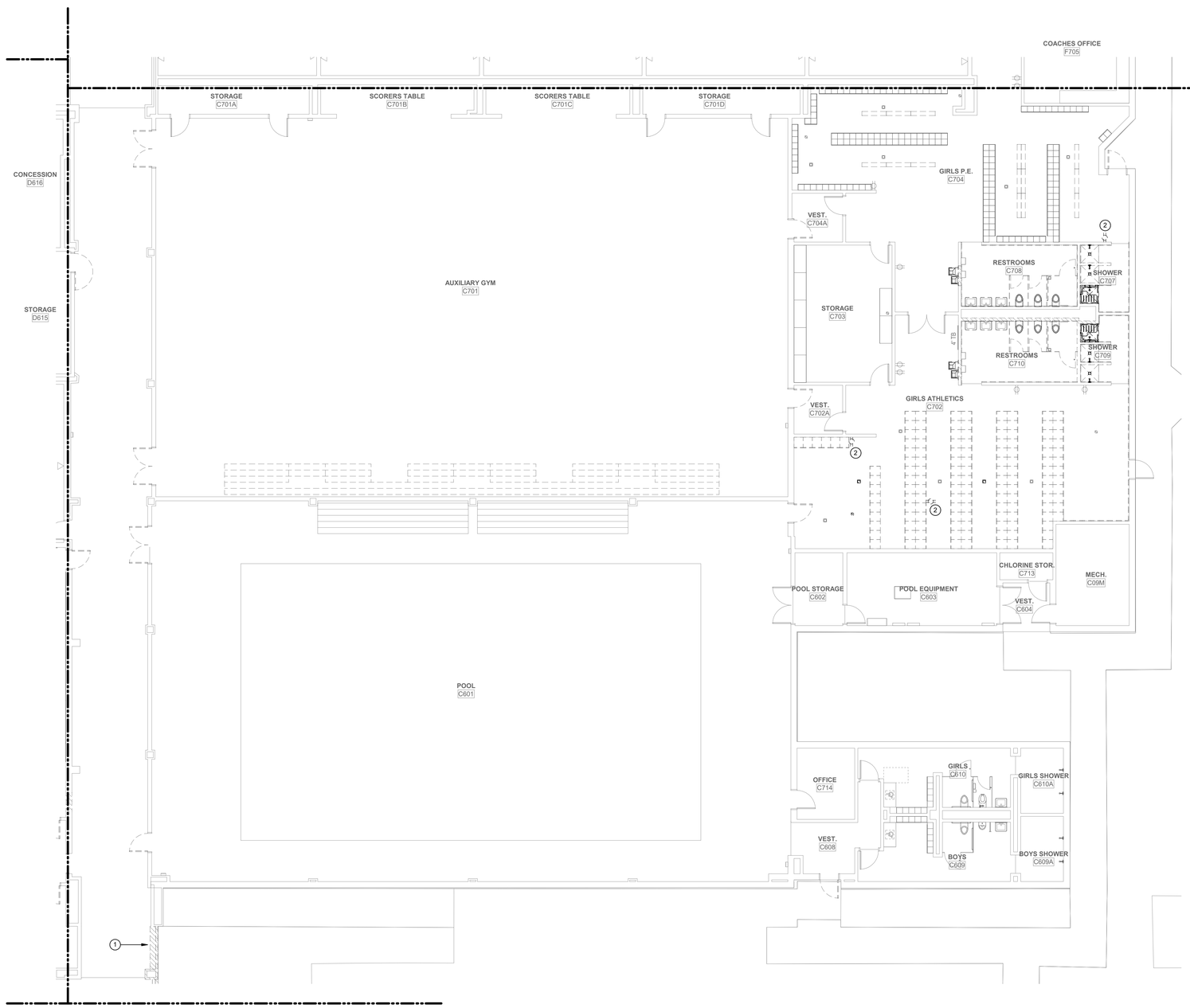
1ST LEVEL POWER DEMO PLAN - AREA C
ED-101C
FOR BLUEBEAM LABELING OCR:



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9. CONTRACTOR SHALL REFER TO ARCHITECT DEMOLITION PLANS AND PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF THE SCOPE OF THE PROJECT PRIOR TO COMMENCEMENT OF WORK.
10. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, ALL STATE AND LOCAL CODES AND AMENDMENTS.
11. WHERE ELECTRICAL EQUIPMENT IS BEING DEMOED AND REPLACED; CONTRACTOR SHALL ENSURE THAT EXISING SERVING FEEDERS AND WIRING ARE EXTENDED AND RECONNECTED TO NEW BREAKERS WITHIN NEW ELECTRICAL EQUIPMENT AS NECESSARY.

DEMOLITION PLAN KEYED NOTES:

1. EXISTING EQUIPMENT FIXTURES AND BRANCH CIRCUITRY ASSOCIATED WITH THIS WALL TO BE DEMOLISHED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO. FIELD VERIFY ALL COMPONETS TO BE DEMOLISHED.
2. RECEPTACLES TO BE DEMOLISHED. CONTRACTOR TO DEMO BACK TO NEAREST JUNCTION BOX.

1 1ST LEVEL POWER DEMO PLAN - AREA C
SCALE: 1/8" = 1'-0"

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TX Firm: BR 1608

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FIRE/LIFE
CONSULTANT NAME
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OTHER
CONSULTANT NAME
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LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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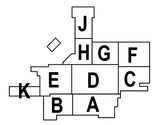
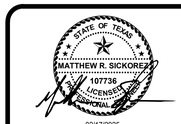


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL POWER DEMO PLAN - AREA C

ED-101C

ISSUE FOR PROPOSAL

1ST LEVEL POWER DEMO PLAN - AREA D

ED-101D

FOR BLUEBEAM LABELING:

0"

1"

DEMOLITION PLAN GENERAL NOTES:

1. ALL ITEMS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. PRIOR TO DEMOLITION OF ANY ELECTRICAL EQUIPMENT AND OR CONDUIT, CONTRACTOR SHALL FIELD VERIFY AND DOCUMENT EXISTING BRANCH CIRCUIT INFORMATION INCLUDEING BUT NOT LIMITED TO CIRCUIT BREAKER, CONDUCTORS, CONDUIT, PHASE AND VOLTAGE.
2. DISCONNECT AND REMOVE ALL WIRING, CONDUIT, DISCONNECTS, AND OTHER DEVICES ASSOCIATED WITH MECHANICAL AND PLUMBING EQUIPMENT BEING REMOVED. LABEL SOURCE BREAKER(S) "SPARE" IN PANEL. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF ALL HVAC AND PLUMBING EQUIPMENT TO BE DEMOLISHED.
3. REMOVE ALL WIRING, CONDUIT AND ASSOCIATED DEVICES IN WALLS TO BE REMOVED. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES WHICH REMAIN.
4. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER.
5. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
6. WHEN REMOVING EXISTING ELECTRICAL WORK SUCH AS RECEPTACLES, LIGHT FIXTURES,ETC. WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY.
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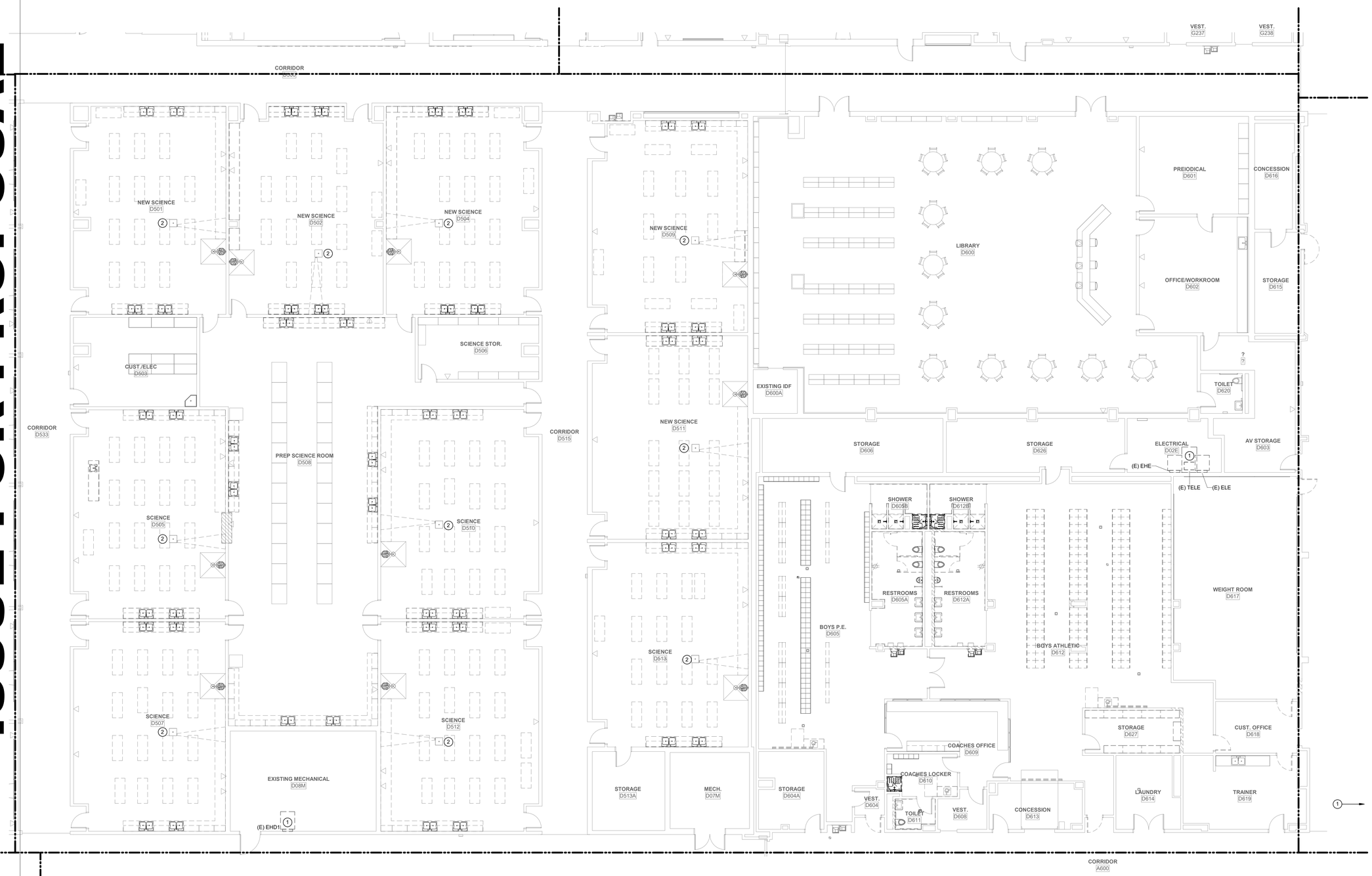
10. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, ALL STATE AND LOCAL CODES AND AMENDMENTS.
11. WHERE ELECTRICAL EQUIPMENT IS BEING DEMOED AND REPLACED; CONTRACTOR SHALL ENSURE THAT EXISING SERVING FEEDERS AND WIRING ARE EXTENDED AND RECONNECTED TO NEW BREKERS WITHIN NEW ELECTRICAL EQUIPMENT AS NECESSARY.

DEMOLITION PLAN KEYED NOTES:

1. CONTRACTOR SHALL DEMO EXISITNG PAINT BOOTH. CONTRACTOR SHALL NOTE EXISTING SERVING BRANCH CIRCUITRY AND BREAKER CURRENTLY SERVING THIS EQUIPMENT AND MARK BREAKER "SPARE" WHEN DEMOLITION IS COMPLETE. REFER TO POWER DRAWINGS FOR NEW PAINT BOOTH INFORMAITON.
2. CONTRACTOR SHALL DEMO DUST COLLECTOR. CONTRACTOR SHALL NOTE EXISTING SERVING BRANCH CIRCUITRY AND BREAKER CURRENTLY SERVING THIS EQUIPMENT AND MARK BREAKER "SPARE" WHEN DEMOLITION IS COMPLETE. REFER TO POWER DRAWINGS FOR NEW DUST COLLECTOR INFORMAITON.
3. CONTRACTOR SHALL DEMO ALL POWER AND LOW VOLTAGE DEVICES ASSOCATED WITH THIS PROJECTOR BACK TO NEAREST JUNCTION BOX. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES ON THIS CIRCUIT.
4. EXISTING EQUIPMENT FIXTURES, LIGHT FIXTURES, AND BRANCH CIRCUITRY ASSOCIATED WITH THIS WALL TO BE DEMOLISHED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO. FIELD VERIFY ALL COMPONETS TO BE DEMOLISHED.
5. EXISTING EMERGENCY ELECTRICAL DISTRIBUTION TO BE DEMOLISHED.

DEMOLITION POWER PLAN KEYED NOTES:

1. EXISTING EMERGENCY ELECTRICAL DISTRIBUTION TO BE DEMOLISHED.
2. CONTRACTOR SHALL DEMO ALL POWER AND LOW VOLTAGE DEVICES ASSOCATED WITH THIS PROJECTOR BACK TO NEAREST JUNCTION BOX. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES ON THIS CIRCUIT.



1 **1ST LEVEL POWER DEMO PLAN - AREA D**
SCALE: 1/8" = 1'-0"

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TX Firm: BR 1608

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LEAF ENGINEERS

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11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MATTHEW R. SICKOREZ
107736
LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

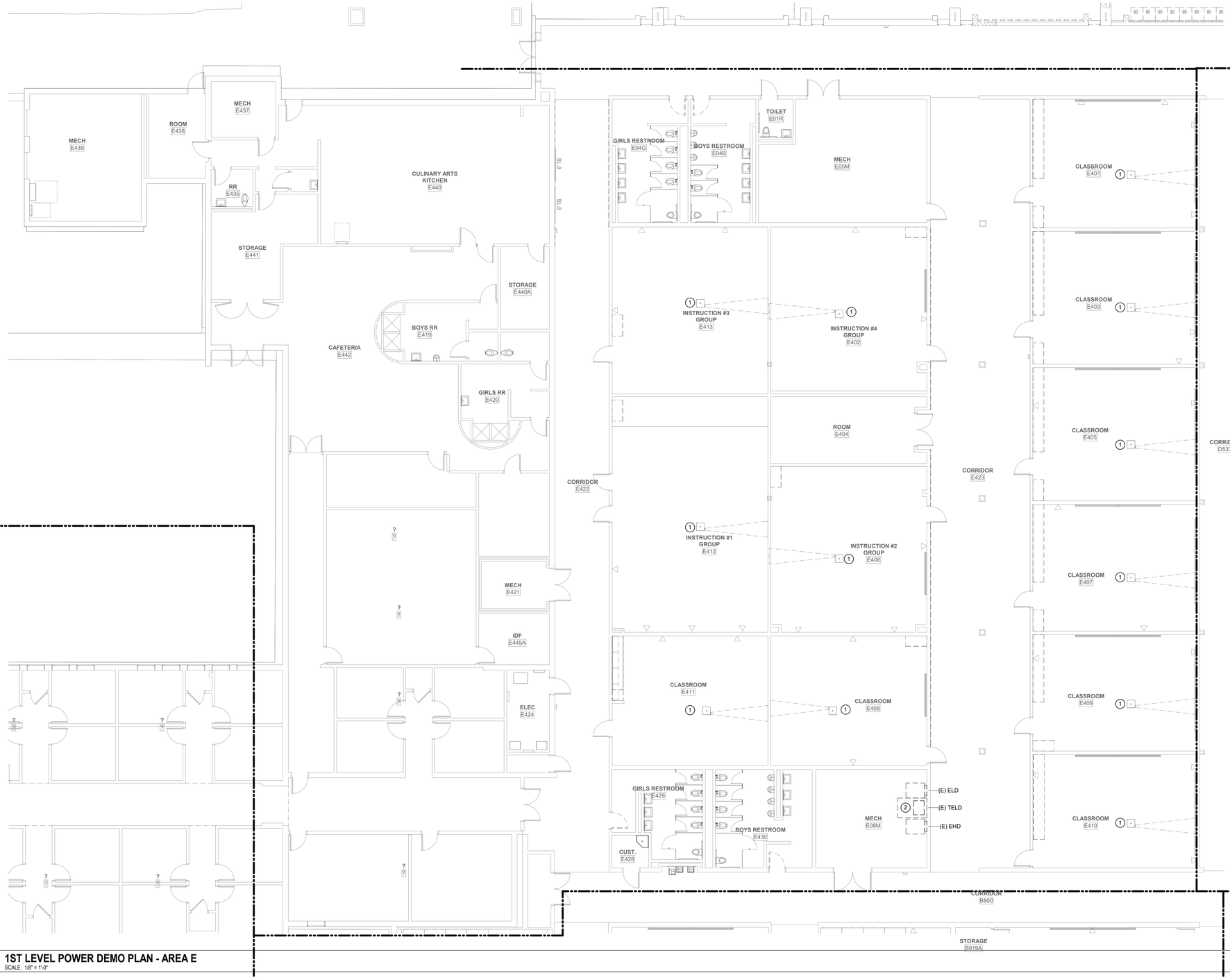
1ST LEVEL POWER DEMO PLAN - AREA D

ED-101D

0"
1"

1ST LEVEL POWER DEMO PLAN - AREA E
ED-101E
FOR BLUEBEAM LABELING:OCR:

ISSUE FOR PROPOSAL



DEMOLITION PLAN GENERAL NOTES:

1. ALL ITEMS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. PRIOR TO DEMOLITION OF ANY ELECTRICAL EQUIPMENT AND /OR CONDUIT, CONTRACTOR SHALL FIELD VERIFY AND DOCUMENT EXISTING BRANCH CIRCUIT INFORMATION INCLUDEING BUT NOT LIMITED TO CIRCUIT BREAKER, CONDUCTORS, CONDUIT, PHASE AND VOLTAGE.
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3. REMOVE ALL WIRING, CONDUIT AND ASSOCIATED DEVICES IN WALLS TO BE REMOVED. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES WHICH REMAIN.
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2. EXISTING EMERGENCY ELECTRICAL DISTRIBUTION TO BE DEMOLISHED.

1 **1ST LEVEL POWER DEMO PLAN - AREA E**
SCALE: 1/8" = 1'-0"

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FIRE/LIFE
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FOOD SERVICE
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OTHER
CONSULTANT NAME
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LEAF ENGINEERS

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CYPRESS, TX 77429
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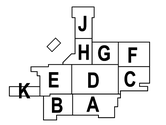

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL POWER DEMO PLAN - AREA E

ED-101E

0"
1"

1ST LEVEL POWER DEMO PLAN - AREA F
ED-101F
FOR BLUEBEAM LABELING:OCR:

ISSUE FOR PROPOSAL

DEMOLITION PLAN GENERAL NOTES:

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DEMOLITION PLAN KEYED NOTES:

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2. EXISTING EMERGENCY ELECTRICAL DISTRIBUTION TO BE DEMOLISHED.

1 **1ST LEVEL POWER DEMO PLAN - AREA F**
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MATTHEW R. SICKOREZ
107736
LICENSED
PROFESSIONAL
ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST LEVEL POWER DEMO PLAN - AREA F

ED-101F

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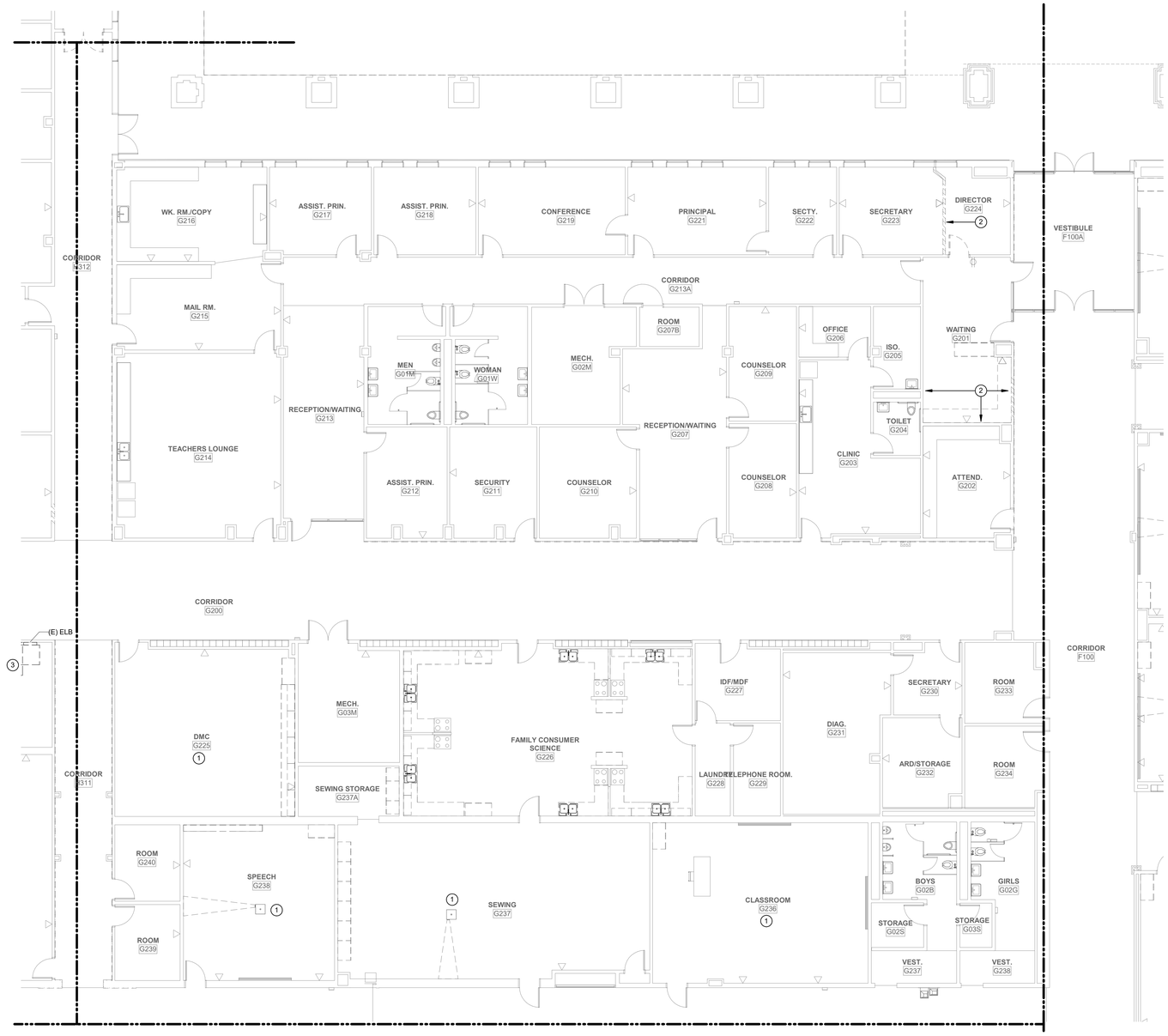
0"
1"

1ST LEVEL POWER DEMO PLAN - AREA G
ED-101G
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



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1 **1ST LEVEL POWER DEMO PLAN - AREA G**
SCALE: 1/8" = 1'-0"

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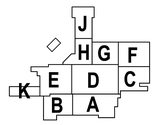
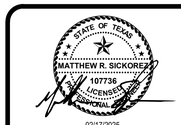


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL POWER DEMO PLAN - AREA G

ED-101G

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ISSUE FOR PROPOSAL

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1ST LEVEL POWER DEMO PLAN - AREA H

ED-101H

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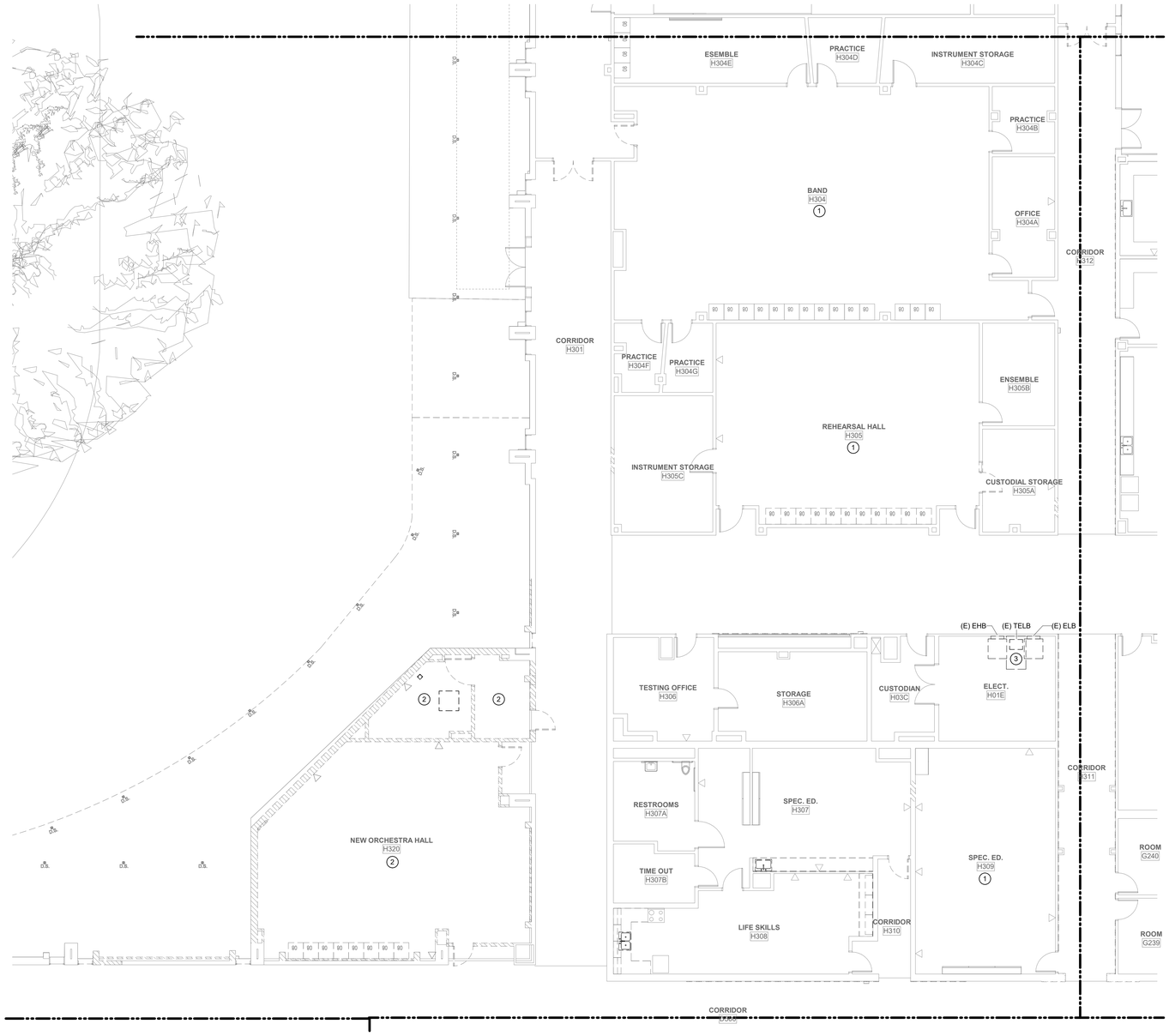

DEMOLITION PLAN GENERAL NOTES:

1. ALL ITEMS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. PRIOR TO DEMOLITION OF ANY ELECTRICAL EQUIPMENT AND /OR CONDUIT, CONTRACTOR SHALL FIELD VERIFY AND DOCUMENT EXISTING BRANCH CIRCUIT INFORMATION INCLUDEING BUT NOT LIMITED TO CIRCUIT BREAKER, CONDUCTORS, CONDUIT, PHASE AND VOLTAGE.
2. DISCONNECT AND REMOVE ALL WIRING, CONDUIT, DISCONNECTS, AND OTHER DEVICES ASSOCIATED WITH MECHANICAL AND PLUMBING EQUIPMENT BEING REMOVED. LABEL SOURCE BREAKER(S) "SPARE" IN PANEL. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF ALL HVAC AND PLUMBING EQUIPMENT TO BE DEMOLISHED.
3. REMOVE ALL WIRING, CONDUIT AND ASSOCIATED DEVICES IN WALLS TO BE REMOVED. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES WHICH REMAIN.
4. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER.
5. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
6. WHEN REMOVING EXISTING ELECTRICAL WORK SUCH AS RECEPTACLES, LIGHT FIXTURES,ETC. WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY.
7. EXISTING ELECTRICAL BOXES TO REMAIN IN AREAS WHERE NEW WALL FINISHES ARE TO BE APPLIED SHALL BE RESET AS NECESSARY TO PROVIDE FLUSH MOUNTING FOR BOXES.
8. CONTRACTOR SHALL FIELD VERIFY EXISTNG BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT.
9. CONTRACTOR SHALL REFER TO ARCHITECT DEMOLITION PLANS AND PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF THE SCOPE OF THE PROJECT PRIOR TO COMMENCEMENT OF WORK.
10. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, ALL STATE AND LOCAL CODES AND AMENDMENTS.
11. WHERE ELECTRICAL EQUIPMENT IS BEING DEMOED AND REPLACED; CONTRACTOR SHALL ENSURE THAT EXISNG SERVING FEEDERS AND WIRING ARE EXTENDED AND RECONNECTED TO NEW BREAKERS WITHIN NEW ELECTRICAL EQUIPMENT AS NECESSARY.

DEMOLITION PLAN KEYED NOTES:

1. CONTRACTOR SHALL DEMO ALL POWER AND LOW VOLTAGE DEVICES ASSOCATED WITH THIS PROJECTOR BACK TO NEAREST JUNCTION BOX. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES ON THIS CIRCUIT.
2. EXISTING EQUIPMENT FIXTURES AND BRANCH CIRCUITRY ASSOCIATED WITH THIS ROOM TO BE DEMOLISHED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO. FIELD VERIFY ALL COMPONENTS TO BE DEMOLISHED.
3. EXISTING EMERGENCY ELECTRICAL DISTRIBUTION TO BE DEMOLISHED.

1 1ST LEVEL POWER DEMO PLAN - AREA H
SCALE: 1/8" = 1'-0"

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1ST LEVEL POWER DEMO PLAN - AREA H

ED-101H

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1ST LEVEL POWER DEMO PLAN - AREA J
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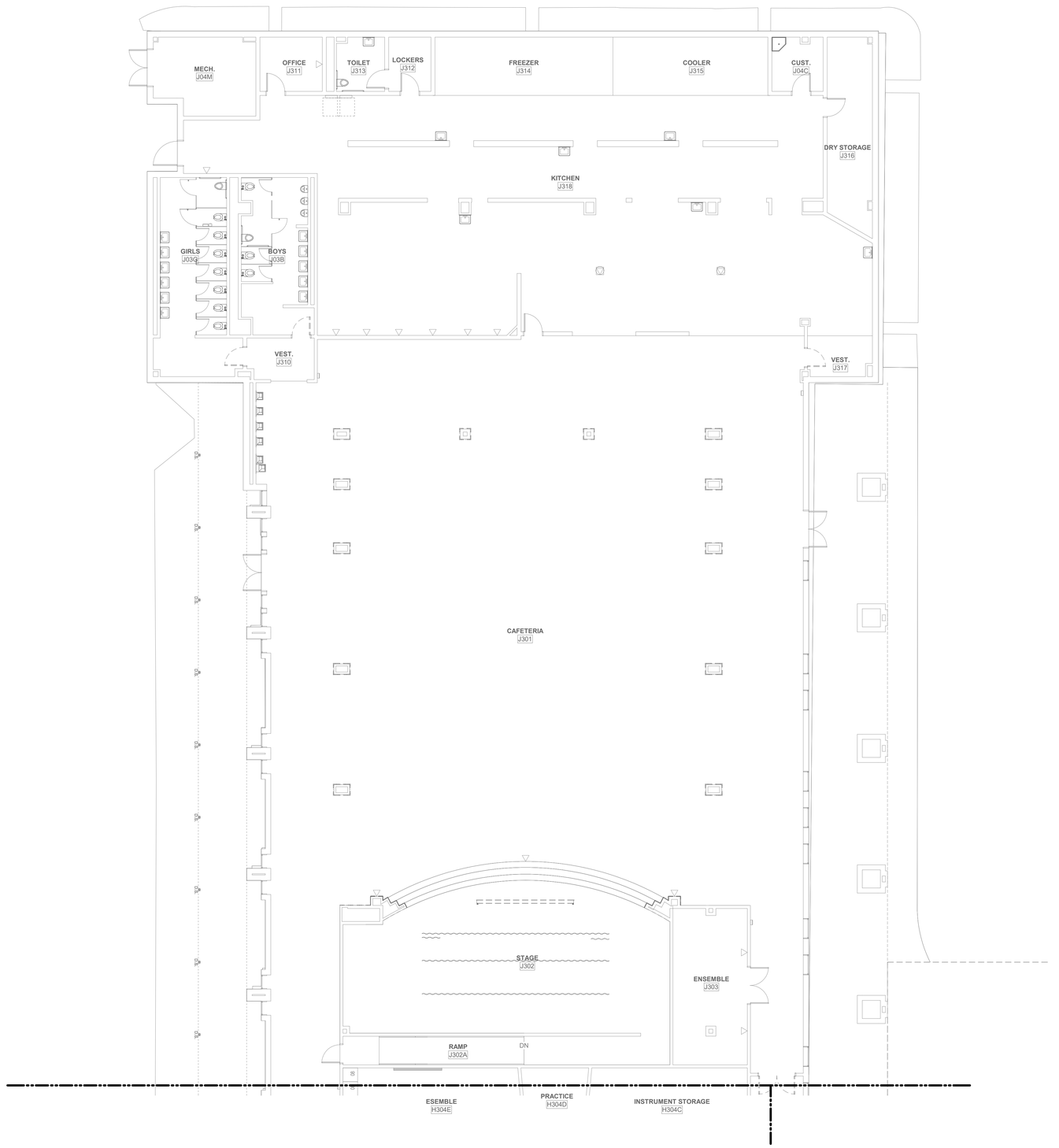

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1 **1ST LEVEL POWER DEMO PLAN - AREA J**
SCALE: 1/8" = 1'-0"

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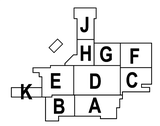
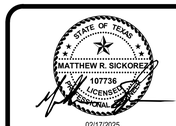


KEY PLAN
NORTH: PLAN TRUE



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Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

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No.	Description	Date

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1ST LEVEL POWER DEMO PLAN - AREA J

ED-101J

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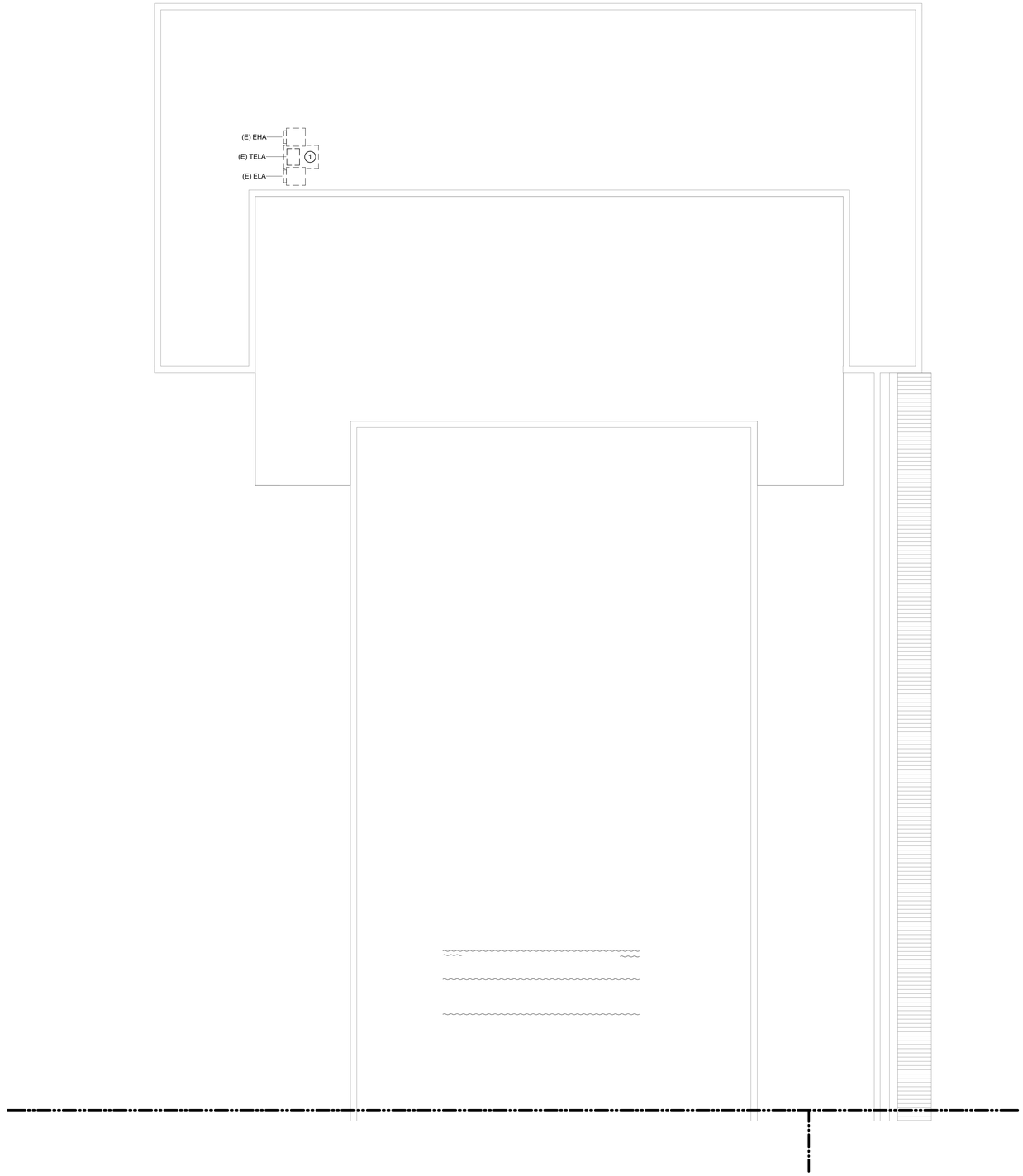
MEZZANINE POWER DEMO PLAN - AREA J

ED-102J

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



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DEMOLITION POWER PLAN KEYED NOTES:

1. EXISTING EMERGENCY ELECTRICAL DISTRIBUTION TO BE DEMOLISHED.

1 **MEZZANINE POWER DEMO PLAN - AREA J**
SCALE: 1/8" = 1'-0"

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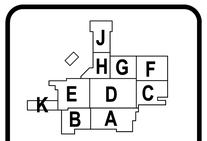

KEY PLAN
NORTH: PLAN TRUE

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F-10672

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

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MEZZANINE POWER DEMO PLAN - AREA J

ED-102J

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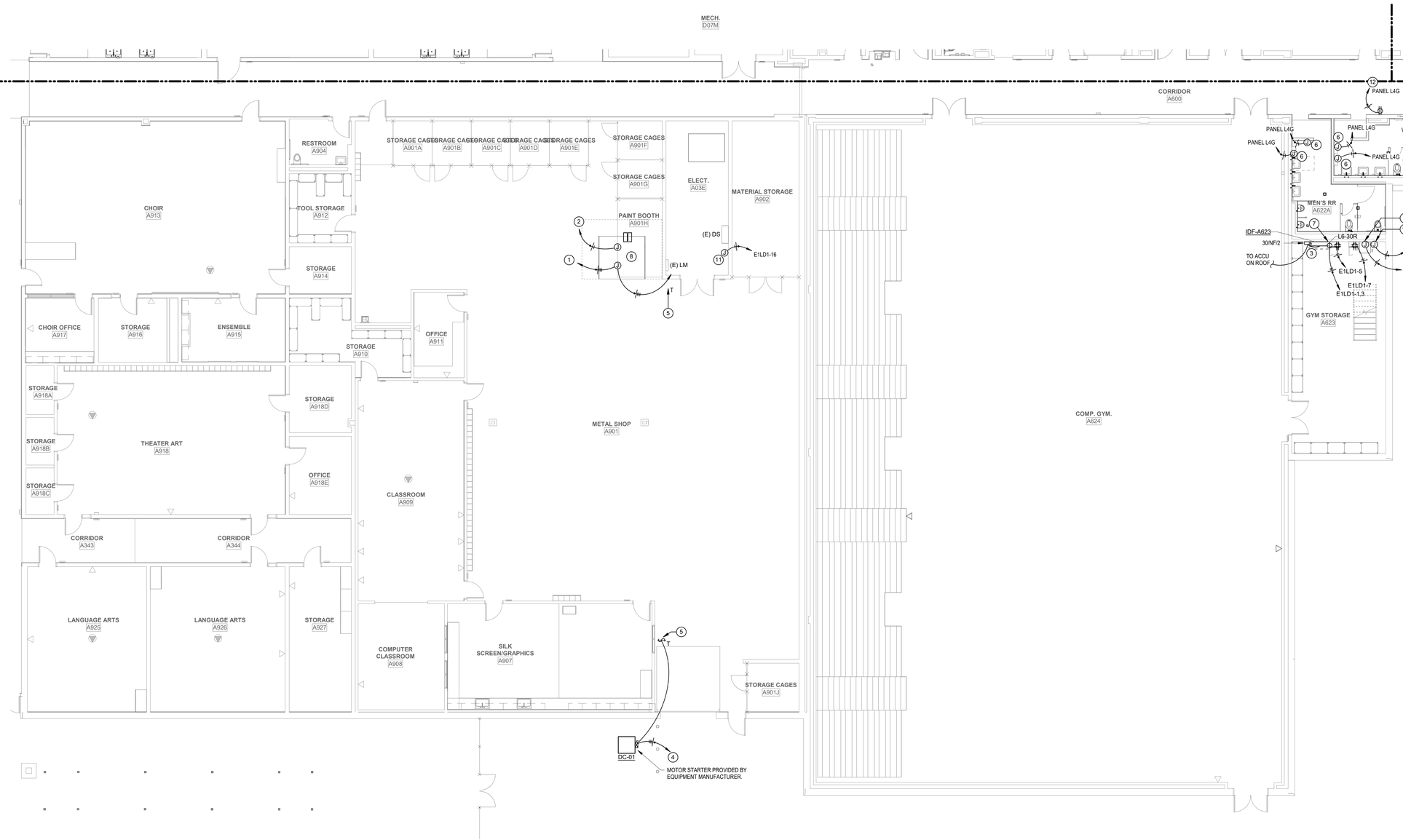
POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. CONTRACTOR TO SERVE NEW PAINT BOOTH FAN FROM PANEL "DS". CONTRACTOR SHALL SERVE PAINT BOOTH WITH NEW 20A/3P BREAKER VIA 3#12, 1#12G, 1"C.
2. CONTRACTOR TO SERVE NEW PAINT BOOTH LIGHT FROM PANEL "LM". CONTRACTOR SHALL SERVE PAINT BOOTH WITH NEW 20A/1P BREAKER VIA 2#12, 1#12G, 1"C.
3. PROVIDE (1) QUAD RECEPTACLE FOR NEW SOUND SYSTEM RACK.
4. CONTRACTOR TO SERVE NEW DUST COLLECTOR FROM PANEL "DS". CONTRACTOR SHALL SERVE DUST COLLECTOR WITHNEW 30A/3P BREAKER VIA 3#10, 1#10G, 1"C.
5. PROVIDE SPRING WOUND MECHANICAL TIMER SWITCH WITH 1 HOUR HOLD. CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRING AND EQUIPMENT FOR A COMPLETE AND OPERATIONAL SYSTEM.
6. PROVIDE JUNCTION BOX FOR POWER TO ELECTRIC HAND DRYERS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND LOCATION.
7. PROVIDE (1) L6-30R RECEPTACLE AND (1) QUAD RECEPTACLE ABOVE EACH TECHNOLOGY RACK. L6-30R RECEPTACLE TO BE SERVED BY NEAREST STANDBY POWER 120V/208Y PANEL VIA 30A/2P BREAKER AND 3#10, 1#10G 1"C.
8. PROVIDE FAN WITH CONTROLS FROM MANUFACTERER TO TURN OFF FAN AUTOMATICALLY AFTER A GIVEN PERIOD OF TIME. COORDINATE DESIRED TIMEOUT WITH DISTRICT AND VENDOR PRIOR TO ORDERING EQUIPMENT.
9. JUNCTION BOX FOR POWER TO ACCESS CONTROL SYSTEM POWER SUPPLY. COORDINATE EXACT LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
10. PROVIDE JUNCTION BOX FOR POWER TO INTRUSION DETECTION SYSTEM POWER SUPPLY. FIELD VERIFY EXACT LOCATION. RE-USE EXISTING CONDUIT AND CONNECT TO EXISTING OUTLET/JUNCTION BOX WITH NEW EMERGENCY CIRCUIT.
11. EXISTING GENERAL POWER RECEPTACLES IN MECHANICAL/ELECTRICAL/IDF ROOM TO BE INTERCEPTED WITH NEW EMERGENCY POWER CIRCUIT. RE-USE EXISTING CONDUIT TO CONNECT EXISTING OUTLETS TO EMERGENCY POWER.
12. CONNECT TO EXISTING LOCAL 20A/120V GENERAL PURPOSE CIRCUIT VIA 2#12, 1#12G, 3/4"C.



1 **1ST LEVEL POWER PLAN - AREA A**
SCALE: 1/8" = 1'-0"

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1ST LEVEL POWER PLAN - AREA A
E-101A
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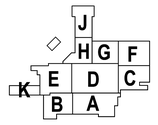
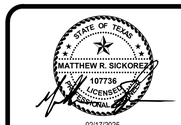


KEY PLAN
NORTH: PLAN TRUE



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1ST LEVEL POWER PLAN - AREA A

E-101A

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1ST LEVEL POWER PLAN - AREA B
E-101B
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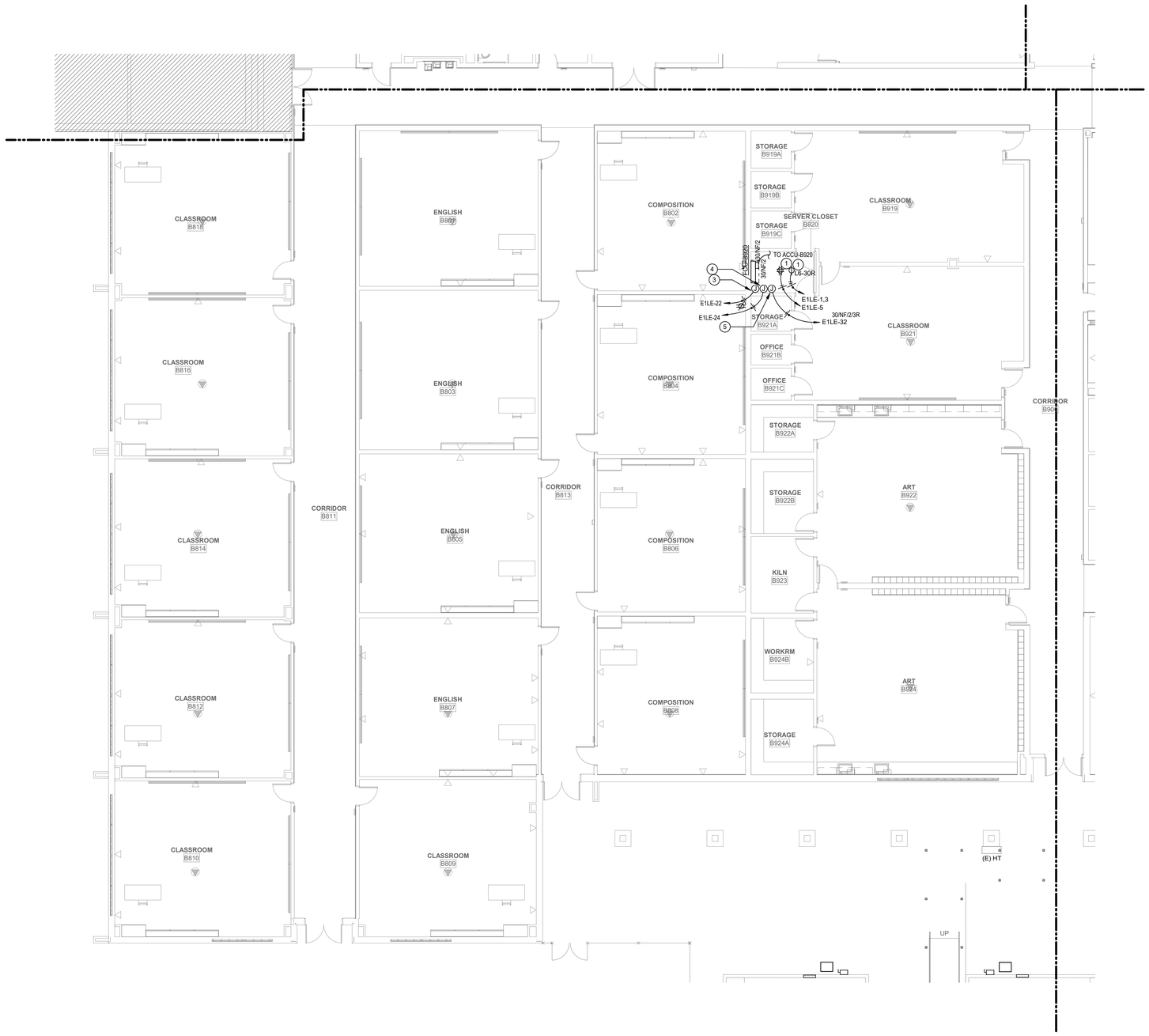

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6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. PROVIDE (1) L6-30R RECEPTACLE AND (1) QUAD RECEPTACLE ABOVE EACH TECHNOLOGY RACK. L6-30R RECEPTACLE TO BE SERVED BY NEAREST STANDBY POWER 120V/208Y PANEL VIA 30A/2P BREAKER AND 3#10, 1#10G 1"C.
2. CONTRACTOR SHALL PROVIDE MAPPA PEDESTAL MOUNTED DISCONNECT TO SERVE NEW ACCU LOCATED ON ROOF. CONTRACTOR SHALL SERVE ACCU BY NEAREST STANDBY POWER 120V/208Y PANEL VIA 25A/2P BREAKER AND 2#10, 1#12G 1"C. REFER TO DETAIL #4/E-602 FOR ADDITIONAL INFORMATION.
3. JUNCTION BOX FOR POWER TO ACCESS CONTROL SYSTEM POWER SUPPLY. COORDINATE EXACT LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
4. PROVIDE JUNCTION BOX FOR POWER TO INTRUSION DETECTION SYSTEM POWER SUPPLY. FIELD VERIFY EXACT LOCATION. RE-USE EXISTING CONDUIT AND CONNECT TO EXISTING OUTLET/JUNCTION BOX WITH NEW EMERGENCY CIRCUIT.
5. EXISTING GENERAL POWER RECEPTACLES IN MECHANICAL/ELECTRICAL/IDF ROOM TO BE INTERCEPTED WITH NEW EMERGENCY POWER CIRCUIT. RE-USE EXISTING CONDUIT TO CONNECT EXISTING OUTLETS TO EMERGENCY POWER.

1 1ST LEVEL POWER PLAN - AREA B
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

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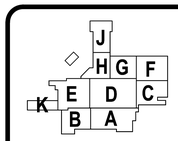
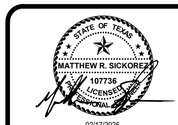


KEY PLAN
NORTH: PLAN TRUE



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LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL POWER PLAN - AREA B

E-101B

ISSUE FOR PROPOSAL

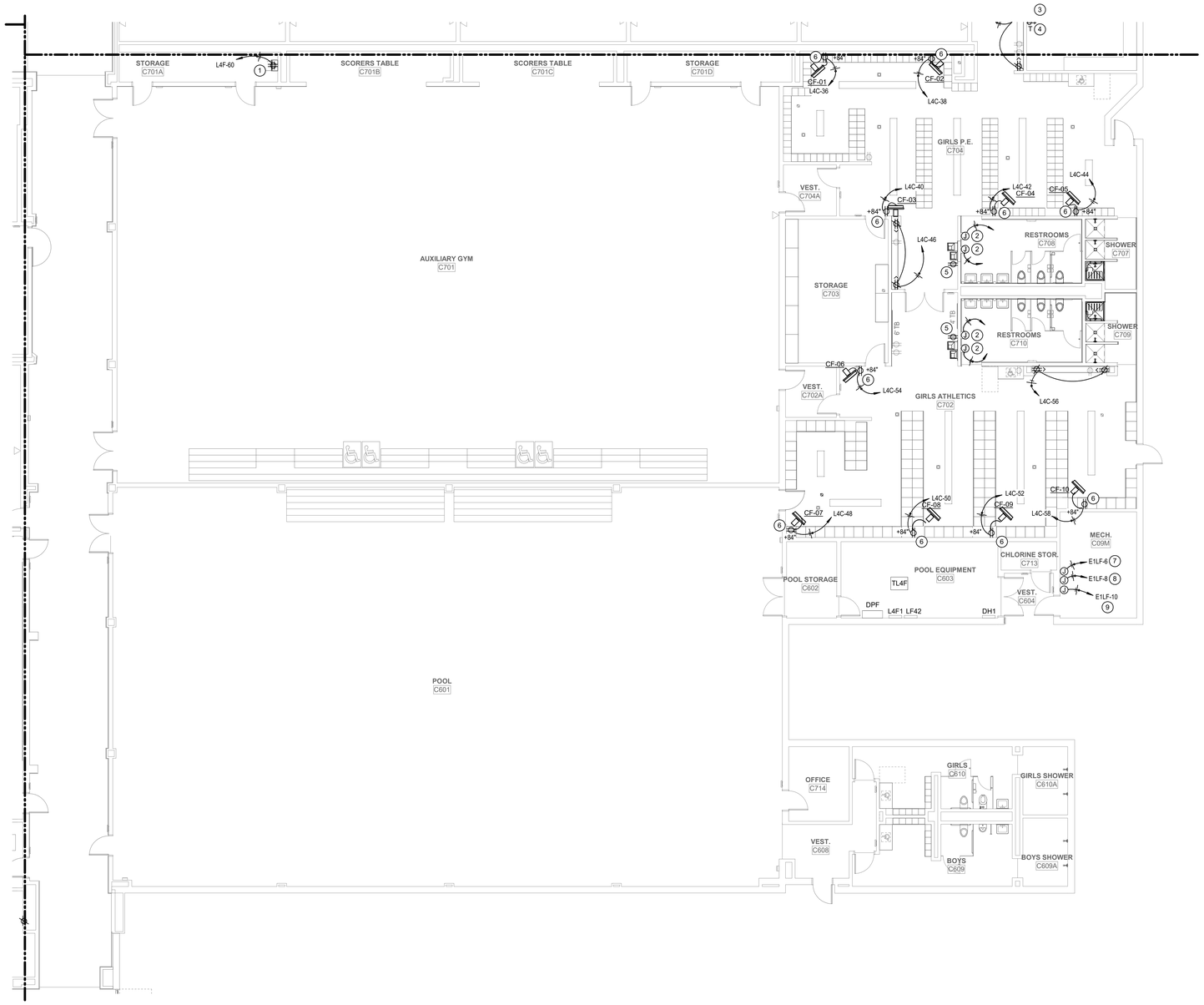
1ST LEVEL POWER PLAN - AREA C

E-101C

FOR BLUEBEAM LABELING/OCR:

0"

1"



POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. PROVIDE (1) QUAD RECEPTACLE FOR NEW SOUND SYSTEM RACK.
2. JUNCTION BOX FOR POWER TO NEW HAND DRYER. DISCONNECT CIRCUIT FROM EXISTING HAND DRYER AND RECONNECT TO NEW HAND DRYER. REFER TO ARCHITECT FOR EXACT LOCATION.
3. PROVIDE SPRING WOUND TIMER SWITCH TO CONTROL CIRCULATION FANS IN C704 GIRLS P.E VIA CONTACTOR "C4C1".
4. PROVIDE SPRING WOUND TIMER SWITCH TO CONTROL CIRCULATION FANS IN C704 GIRLS ATHLETICS VIA CONTACTOR "C4C2".
5. CONTRACTOR SHALL LOCATE RECEPTACLE OUTSIDE OF ELECTRIC DRINKING FOUNTAIN APRON. RECEPTACLE SHALL BE LOCATED A MINIMUM DISTANCE OF 4" (INCHES) FROM DRINKING FOUNTAIN APRON.
6. RECEPTACLE FOR POWER TO CIRCULATION FAN. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
7. JUNCTION BOX FOR POWER TO FIRE ALARM POWER SUPPLY. COORDINATE EXACT MOUNTING LOCATION WITH FIRE ALARM DRAWINGS PRIOR TO ROUGH-IN.
8. PROVIDE JUNCTION BOX FOR POWER TO BUILDING AUTOMATION SYSTEMS. VERIFY EXACT LOCATION WITH CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. RE-USE EXISTING CONDUIT.
9. EXISTING GENERAL POWER RECEPTACLES IN MECHANICAL/ELECTRICAL/IDF ROOM TO BE INTERCEPTED WITH NEW EMERGENCY POWER CIRCUIT. RE-USE EXISTING CONDUIT TO CONNECT EXISTING OUTLETS TO EMERGENCY POWER.

1 **1ST LEVEL POWER PLAN - AREA C**
SCALE: 1/8" = 1'-0"

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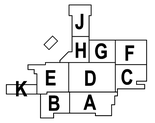


KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL POWER PLAN - AREA C

E-101C

0"

1"

1ST LEVEL POWER PLAN - AREA D

E-101D

FOR BLUEBEAM LABELING:OCR:

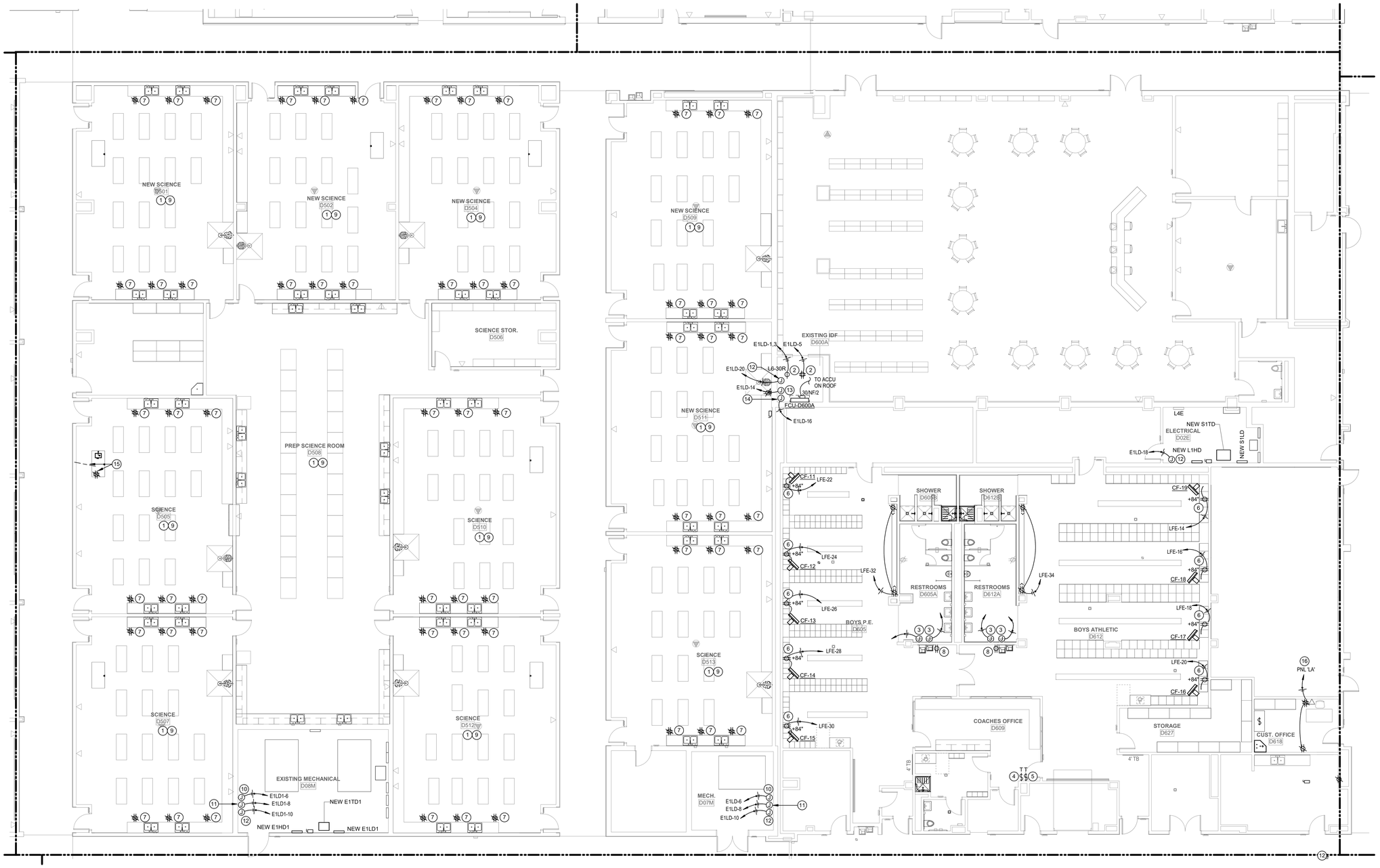
ISSUE FOR PROPOSAL

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. CONTRACTOR TO RELOCATE EXISTING RECEPTACLES WITHIN SCIENCE LABS TO COMPLY WITH NEW CASEWORK LAYOUT IN THESE ROOMS.
2. PROVIDE (1) L6-30R RECEPTACLE AND (1) QUAD RECEPTACLE ABOVE EACH TECHNOLOGY RACK. COORDINATE EXACT MOUNTING AND POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLE TO BE SERVED BY NEAREST STANDBY POWER 120V/208Y PANEL VIA 30A/2P BREAKER AND 3#10, 1#10G 1"C.
3. JUNCTION BOX FOR POWER TO NEW HAND DRYER. DISCONNECT CIRCUIT FROM EXISTING HAND DRYER AND RECONNECT TO NEW HAND DRYER. REFER TO ARCHITECT FOR EXACT LOCATION.
4. PROVIDE SPRING WOUND TIMER SWITCH TO CONTROL CIRCULATION FANS IN D605A BOYS P.E.
5. PROVIDE SPRING WOUND TIMER SWITCH TO CONTROL CIRCULATION FANS IN D612 BOYS ATHLETICS.
6. RECEPTACLE FOR POWER TO CIRCULATION FAN. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
7. CONTRACTOR SHALL LOCATE RECEPTACLES ON FACE OF CASWORK. CONTRACTOR SHALL REPLACE NEW RECEPTACLES AND CONDUIT IN SAME LOCAITON AS THE DEMOED RECEPTACLES AND CONDUIT. PROVIDE CONNECTION TO EXISITNG CIRCUIT AS REQUIRED.
8. CONTRACTOR SHALL LOCATE RECEPTACLE OUTSIDE OF ELECTRIC DRINKING FOUNTAIN APRON. RECEPTACLE SHALL BE LOCATED A MINIMUM DISTANCE OF 4" (INCHES) FROM DRINKING FOUNTAIN APRON.
9. ALL EXISTING RECEPTACLES ON WALLS IN THIS ROOM TO REMAIN AND BE PROTECTED IN PLACE.
10. JUNCTION BOX FOR POWER TO FIRE ALARM POWER SUPPLY. COORDINATE EXACT MOUNTING LOCATION WITH FIRE ALARM DRAWINGS PRIOR TO ROUGH-IN.
11. PROVIDE JUNCTION BOX FOR POWER TO BUILDING AUTOMATION SYSTEMS. VERIFY EXACT LOCATION WITH CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. RE-USE EXISTING CONDUIT.
12. EXISTING GENERAL POWER RECEPTACLES IN MECHANICAL/ELECTRICAL/IDF ROOM TO BE INTERCEPTED WITH NEW EMERGENCY POWER CIRCUIT. RE-USE EXISTING CONDUIT TO CONNECT EXISTING OUTLETS TO EMERGENCY POWER.
13. JUNCTION BOX FOR POWER TO ACCESS CONTROL SYSTEM POWER SUPPLY. COORDINATE EXACT LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
14. PROVIDE JUNCTION BOX FOR POWER TO INTRUSION DETECTION SYSTEM POWER SUPPLY. FIELD VERIFY EXACT LOCATION. RE-USE EXISTING CONDUIT AND CONNECT TO EXISTING OUTLET/JUNCTION BOX WITH NEW EMERGENCY CIRCUIT.
15. FOR TEACHER'S DESK, REPLACE EXISTING CONDUIT FROM FLOOR UP AND REPLACE WIRE BACK TO NEAREST JUNCTION POINT. REPLACE EXISTING RECEPTACLE AT DESK.
16. CONNECT NEW RECEPTACLES SHOWN TO NEAREST EXISTING 20A/120V GENERAL PURPOSE RECEPTACLE CIRCUIT FROM PANEL SHOWN.



1 **1ST LEVEL POWER PLAN - AREA D**
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MATTHEW R. SICKORE
107736
LICENSED
PROFESSIONAL
ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL POWER PLAN - AREA D

E-101D

ISSUE FOR PROPOSAL

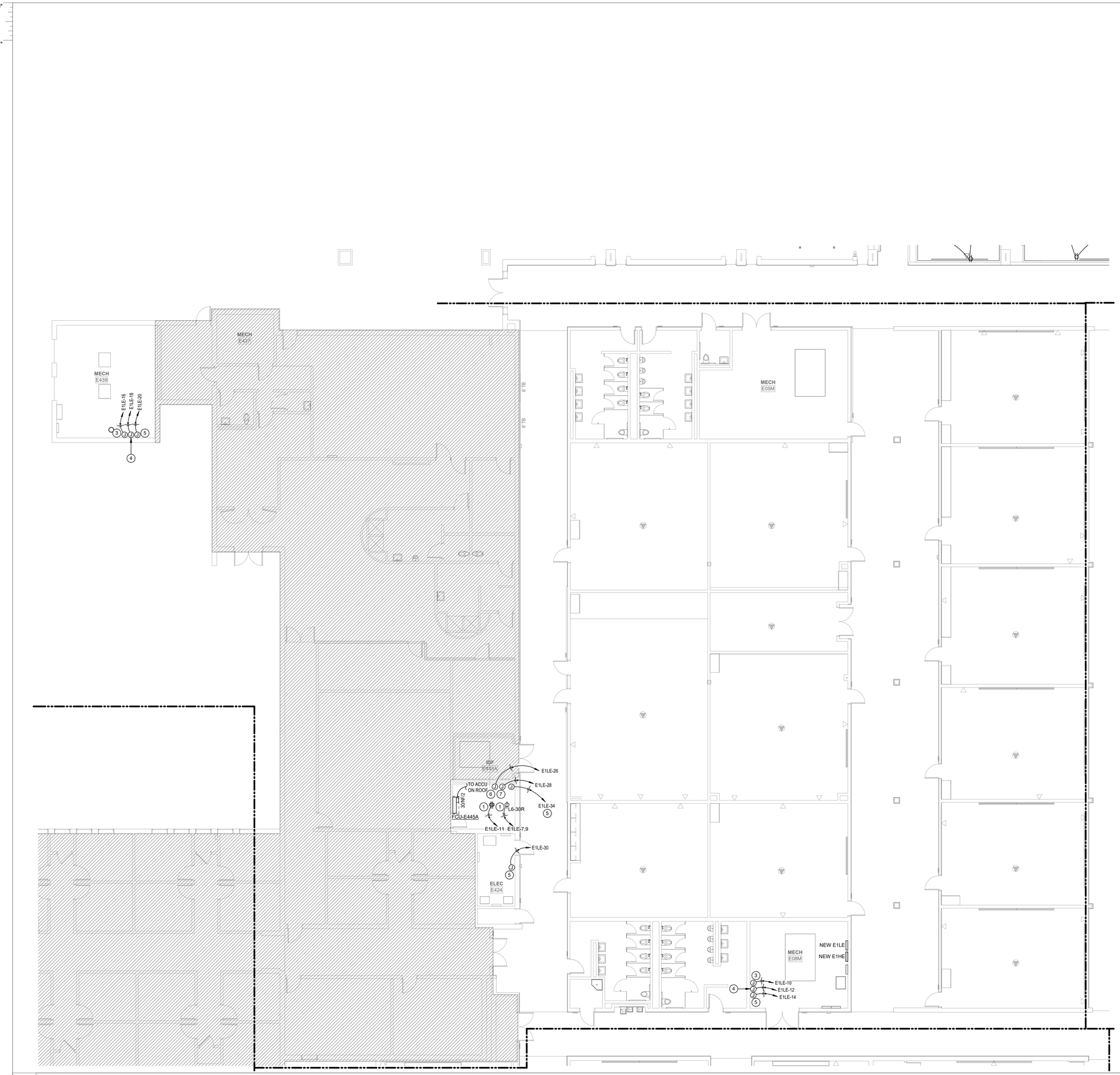
1ST LEVEL POWER PLAN - AREA E

E-101E

FOR BLUEBEAM LABELING:

0"

1"



POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. PROVIDE (1) L6-30R RECEPTACLE AND (1) QUAD RECEPTACLE ABOVE EACH TECHNOLOGY RACK. COORDINATE EXACT MOUNTING AND POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. L6-30R RECEPTACLE TO BE SERVED BY NEAREST STANDBY POWER 120V/208Y PANEL VIA 30A/2P BREAKER AND 3#10, 1#10G 1"C.
2. CONTRACTOR SHALL PROVIDE MAPPA PEDESTAL MOUNTED DISCONNECT TO SERVE NEW ACCU LOCATED ON ROOF. CONTRACTOR SHALL SERVE ACCU BY NEAREST STANDBY POWER 120V/208Y PANEL VIA 25A/2P BREAKER AND 2#10, 1#12G 1"C. REFER TO DETAIL #4/E-602 FOR ADDITIONAL INFORMATION.
3. JUNCTION BOX FOR POWER TO FIRE ALARM POWER SUPPLY. COORDINATE EXACT MOUNTING LOCATION WITH FIRE ALARM DRAWINGS PRIOR TO ROUGH-IN.
4. PROVIDE JUNCTION BOX FOR POWER TO BUILDING AUTOMATION SYSTEMS. VERIFY EXACT LOCATION WITH CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. RE-USE EXISTING CONDUIT.
5. EXISTING GENERAL POWER RECEPTACLES IN MECHANICAL/ELECTRICAL/IDF ROOM TO BE INTERCEPTED WITH NEW EMERGENCY POWER CIRCUIT. RE-USE EXISTING CONDUIT TO CONNECT EXISTING OUTLETS TO EMERGENCY POWER.
6. JUNCTION BOX FOR POWER TO ACCESS CONTROL SYSTEM POWER SUPPLY. COORDINATE EXACT LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
7. PROVIDE JUNCTION BOX FOR POWER TO INTRUSION DETECTION SYSTEM POWER SUPPLY. FIELD VERIFY EXACT LOCATION. RE-USE EXISTING CONDUIT AND CONNECT TO EXISTING OUTLET/JUNCTION BOX WITH NEW EMERGENCY CIRCUIT.

1 **1ST LEVEL POWER PLAN - AREA E**
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MATTHEW R. SICKORE
107736
LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-19572

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL POWER PLAN - AREA E

E-101E

ISSUE FOR PROPOSAL

1ST LEVEL POWER PLAN - AREA F

E-101F

FOR BLUEBEAM LABELING/OCR:

0"

1"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
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5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. CONDUIT FOR POWER TO MONUMENT SIGN SHOWN ON SITE PLAN. CONTRACTOR SHALL ROUTE CONDUIT FROM PANEL "L4C" AND STUB INTO PLENUM SPACE.
2. CONTRACTOR SHALL STUB CONDUIT OUT OF BUILDING ABOVE CANOPY. CONTRACTOR SHALL TUCK CONDUIT IN CORNER AS CONDUIT TRANSITIONS TO UNDERGROUND AND SAWCUT CONCRETE AS REQUIRED.
3. PROVIDE SPRING WOUND TIMER SWITCH TO CONTROL CIRCULATION FANS IN C704 GIRLS P.E. VIA CONTACTOR "C4C1". REFER TO DRAWING SHEET E-101C FOR LOCATION OF CIRCULATION FANS.
4. PROVIDE SPRING WOUND TIMER SWITCH TO CONTROL CIRCULATION FANS IN C704 GIRLS ATHLETICS VIA CONTACTOR "C4C2". REFER TO DRAWING SHEET E-101C FOR LOCATION OF CIRCULATION FANS.
5. JUNCTION BOX FOR POWER TO FIRE ALARM POWER SUPPLY. COORDINATE EXACT MOUNTING LOCATION WITH FIRE ALARM DRAWINGS PRIOR TO ROUGH-IN.
6. PROVIDE JUNCTION BOX FOR POWER TO BUILDING AUTOMATION SYSTEMS. VERIFY EXACT LOCATION WITH CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. RE-USE EXISTING CONDUIT.
7. EXISTING GENERAL POWER RECEPTACLES IN MECHANICAL/ELECTRICAL/IDF ROOM TO BE INTERCEPTED WITH NEW EMERGENCY POWER CIRCUIT. RE-USE EXISTING CONDUIT TO CONNECT EXISTING OUTLETS TO EMERGENCY POWER.

1 **1ST LEVEL POWER PLAN - AREA F**
SCALE: 1/8" = 1'-0"

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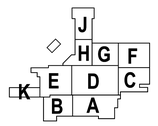
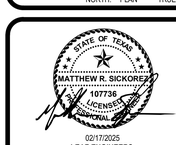


KEY PLAN
NORTH: PLAN TRUE



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LEAF ENGINEERS
F-10672

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST LEVEL POWER PLAN - AREA F

E-101F

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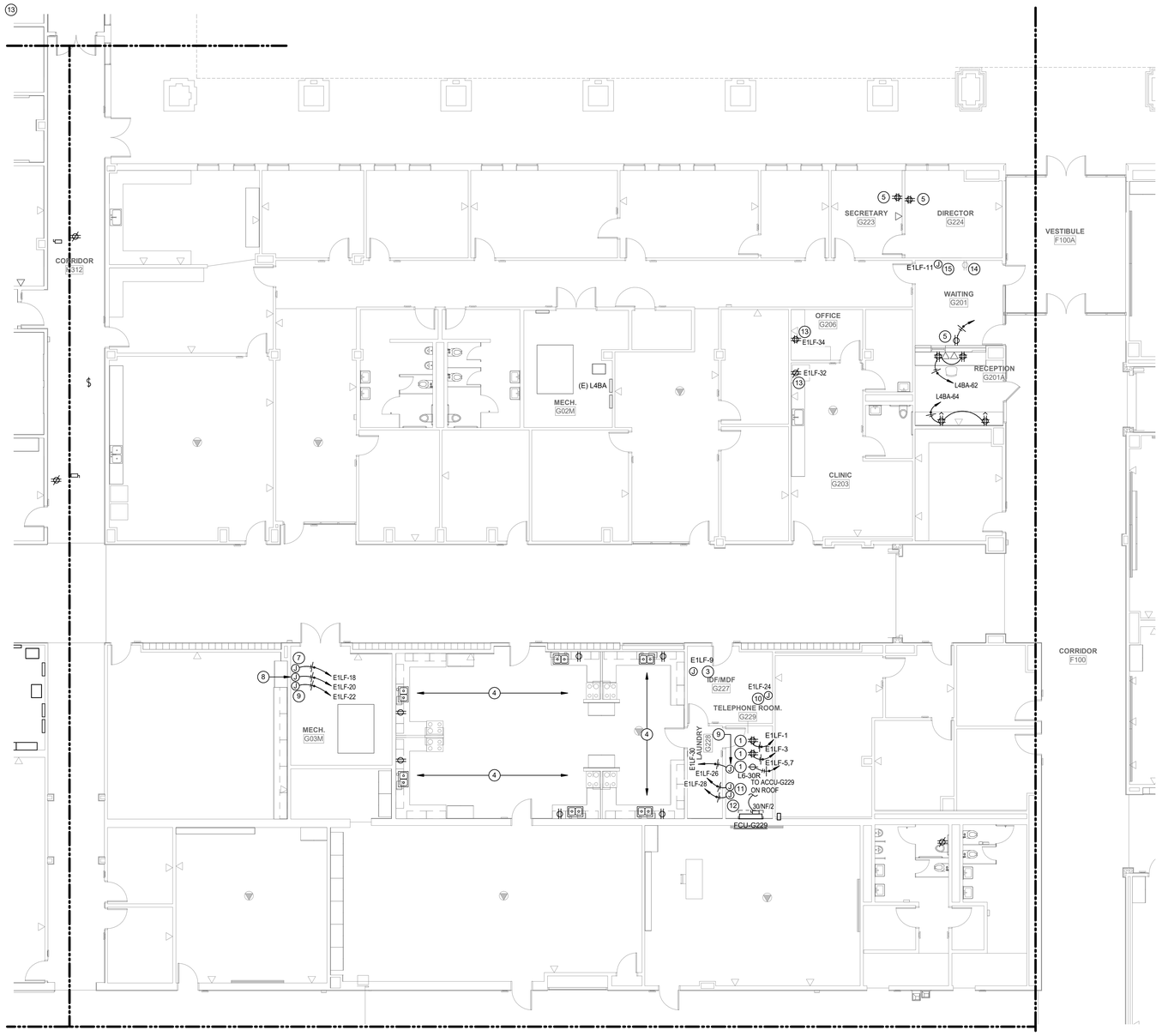
1ST LEVEL POWER PLAN - AREA G
E-101G
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



1 **1ST LEVEL POWER PLAN - AREA G**
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. PROVIDE (1) L6-30R RECEPTACLE AND (2) QUAD RECEPTACLES ABOVE TECHNOLOGY RACK. L6-30R RECEPTACLE TO BE SERVED BY NEAREST STANDBY POWER 120V/208Y PANEL VIA (1) 30A/2P AND 3#10, 1#10G 1"C.
2. CONTRACTOR SHALL PROVIDE MAPPA PEDESTAL MOUNTED DISCONNECT TO SERVE NEW ACCU LOCATED ON ROOF. CONTRACTOR SHALL SERVE ACCU BY NEAREST STANDBY POWER 120V/208Y PANEL VIA 25A/2P BREAKER AND 2#10, 1#12G 1"C. REFER TO DETAIL #4/E-602 FOR ADDITIONAL INFORMATION.
3. PROVIDE JUNCTION BOX FOR POWER TO NEW FACP.
4. ALL EXISTING RECEPTACLES AT CASEWORK IN THIS ROOM TO BE PROTECTED IN PLACE.
5. NEW RECEPTACLES TO BE CIRCUITED TO EXISTING CIRCUIT IN THIS ROOM.
6. JUNCTION BOX FOR POWER TO NEW FIRE ALARM ANUNCIATOR.
7. JUNCTION BOX FOR POWER TO FIRE ALARM POWER SUPPLY. COORDINATE EXACT MOUNTING LOCATION WITH FIRE ALARM DRAWINGS PRIOR TO ROUGH-IN.
8. PROVIDE JUNCTION BOX FOR POWER TO BUILDING AUTOMATION SYSTEMS. VERIFY EXACT LOCATION WITH CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. RE-USE EXISTING CONDUIT.
9. EXISTING GENERAL POWER RECEPTACLES IN MECHANICAL/ELECTRICAL/IDF ROOM TO BE INTERCEPTED WITH NEW EMERGENCY POWER CIRCUIT. RE-USE EXISTING CONDUIT TO CONNECT EXISTING OUTLETS TO EMERGENCY POWER.
10. PROVIDE JUNCTION BOX FOR POWER TO INTERCOM / MASTER CLOCK SYSTEM. COORDINATE EXACT MOUNTING LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
11. JUNCTION BOX FOR POWER TO ACCESS CONTROL SYSTEM POWER SUPPLY. COORDINATE EXACT LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
12. PROVIDE JUNCTION BOX FOR POWER TO INTRUSION DETECTION SYSTEM POWER SUPPLY. FIELD VERIFY EXACT LOCATION. RE-USE EXISTING CONDUIT AND CONNECT TO EXISTING OUTLET/JUNCTION BOX WITH NEW EMERGENCY CIRCUIT.
13. INTERCEPT EXISTING EQUIPMENT CIRCUIT WITH NEW EMERGENCY CIRCUIT. REMOVE EXISTING WIRE TO NORMAL POWER PANEL AND PROVIDE NEW WIRE AND CONDUIT REQUIRED TO CONNECT TO NEW EMERGENCY CIRCUIT. RE-USE EXISTING CONDUIT. REFER TO PLAN FOR CIRCUIT DESIGNATION.
14. EXISTING RECEPTACLE TO REMAIN.
15. JUNCTION BOX FOR POWER TO FIRE ALARM ANNUNCIATOR. COORDINATE EXACT MOUNTING LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.

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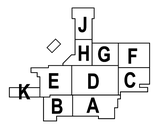
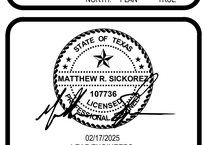


KEY PLAN
NORTH: PLAN TRUE



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F-10672

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Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL POWER PLAN - AREA G

E-101G

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1ST LEVEL POWER PLAN - AREA H
E-101H
FOR BLUEBEAM LABELING/OCR:

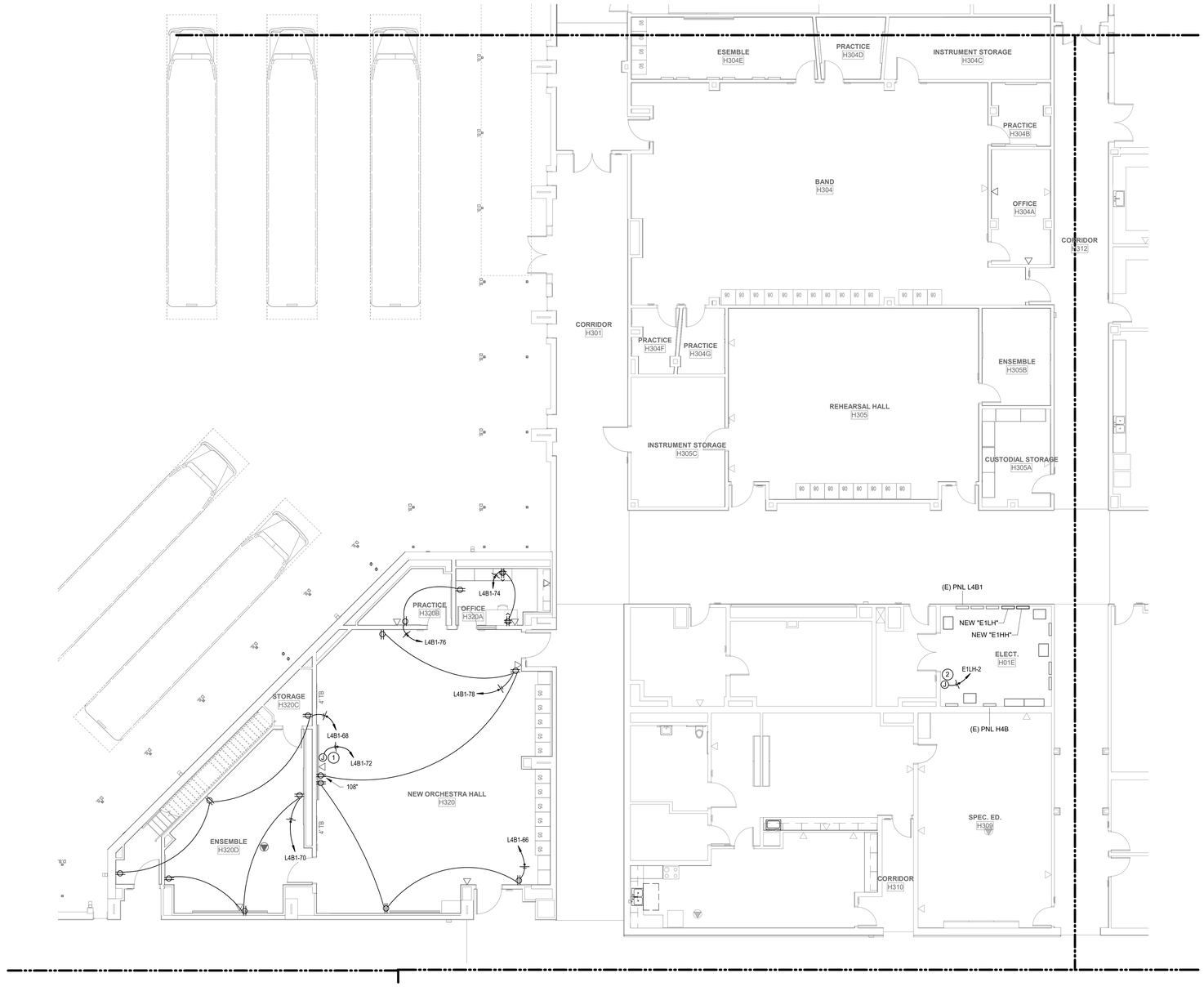
POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

(1) CEILING MOUNTED RECEPTACLE FOR POWER TO LIGHT SPEED AUDIO SYSTEM. CORRIDINATE EXACT LOCATION OF RECEPTACLE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

(2) EXISTING GENERAL POWER RECEPTACLES IN MECHANICAL/ELECTRICAL/DF ROOM TO BE INTERCEPTED WITH NEW EMERGENCY POWER CIRCUIT. RE-USE EXISTING CONDUIT TO CONNECT EXISTING OUTLETS TO EMERGENCY POWER.



1 **1ST LEVEL POWER PLAN - AREA H**
SCALE: 1/8" = 1'-0"

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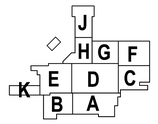
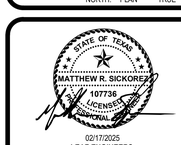


KEY PLAN
NORTH: PLAN TRUE



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Cy-Fair Independent School District
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PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL POWER PLAN - AREA H

E-101H

ISSUE FOR PROPOSAL

1ST LEVEL POWER PLAN - AREA J

E-101J

FOR BLUEBEAM LABELING/OCR:

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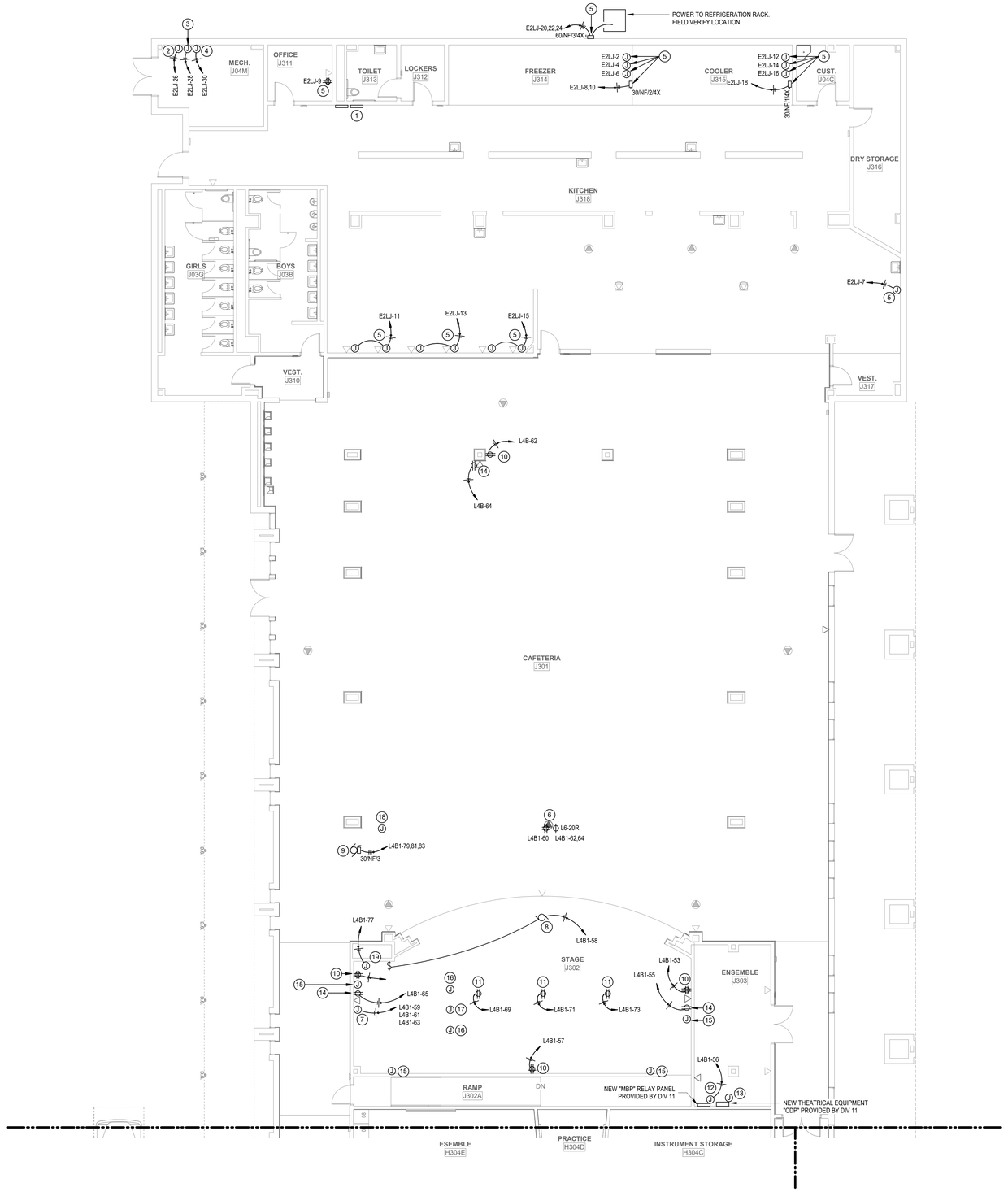

1 **1ST LEVEL POWER PLAN - AREA J**
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH "TS" DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. NEW PANEL LK.
2. JUNCTION BOX FOR POWER TO FIRE ALARM POWER SUPPLY. COORDINATE EXACT MOUNTING LOCATION WITH FIRE ALARM DRAWINGS PRIOR TO ROUGH-IN.
3. PROVIDE JUNCTION BOX FOR POWER TO BUILDING AUTOMATION SYSTEMS. VERIFY EXACT LOCATION WITH CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. RE-USE EXISTING CONDUIT.
4. EXISTING GENERAL POWER RECEPTACLES IN MECHANICAL/ELECTRICAL/IDF ROOM TO BE INTERCEPTED WITH NEW EMERGENCY POWER CIRCUIT. RE-USE EXISTING CONDUIT TO CONNECT EXISTING OUTLETS TO EMERGENCY POWER.
5. INTERCEPT EXISTING KITCHEN EQUIPMENT CIRCUIT WITH NEW EMERGENCY CIRCUIT. REMOVE EXISTING WIRE TO NORMAL POWER PANEL AND PROVIDE NEW WIRE AND CONDUIT REQUIRED TO CONNECT TO NEW EMERGENCY CIRCUIT. RE-USE EXISTING CONDUIT. REFER TO PLAN FOR CIRCUIT DESIGNATION.
6. PROVIDE CEILING MOUNTED RECEPTACLES FOR POWER TO PROJECTOR. REFER TO A/V DRAWINGS FOR EXACT MOUNTING LOCATION PRIOR TO ROUGH-IN.
7. JUNCTION BOX FOR POWER TO SMP EQUIPMENT RACK. CONTRACTOR SHALL SHALL TERMINATE CIRCUITS WITHIN JBR AND EXTEND TO DISTRIBUTION STRIP WITHIN EQUIPMENT RACK. REFER TO THEATRICAL/AV CONSULTANT FOR EXACT LOCAITON.
8. PROVIDE POWER TO MOTORIZED PROJECTION SCREEN. CONFIRM EXACT UP/DOWN SWITCH LOCATION WITH PROJECTOR SCREEN MANUFACTUR PRIOR TO INSTALLATION.
9. HOIST POWER AND CONTROL BOX. CONTRACTOR SHALL COORDIANATE EXACT TERMINATION REQUIREMENTS, LOCAITON AND MOUNTING PRIOR TO ROUGH-IN WITH EQUIPMENT MANUFACTURER.
10. PROVIDE (1) QUAD RECEPTACLE ADJACENT TO AV DEVICE. REFER TO AV DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALATION.
11. PROVIDE (1) CEILING MOUNTED DUPLEX RECEPTACLE TO SERVE MICROPHONE PLATE. REFER TO AV DRAWINGS FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION PRIOR TO INSTALATION.
12. JUNCITON BOX FOR POWER TO THEATRICAL PANEL "MBP". REFER TO MANUFACTUER FOR EXACT TERMINATION REQUIREMENTS AND THEATRICAL DRAWINGS FOR EXACT LOCAITON AND MOUNTING.
13. PROVIDE (1) 120V 20A CIRCUIT TO WALL MOUNTED THEATRICAL EQUIPMENT "CDP" FROM MBP. REFER TO THEATRICAL SCHEDULES ON SHEEL TL-101J FOR CIRCUIT DESIGNATION. CONTRACTOR SHALL WIRE CIRUCIT TO UNINTERRUPTED POWER SUPPLY WITHIN EQUIPMENT ENCLOSURE. REFER TO THEATRICAL DRAWINGS FOR EXACT LOCAITON AND ADDITIONAL INFORMAITON.
14. PROVIDE (1) DUPLEX RECEPTACLE ADJACENT TO "CR2/CR3" CONTROL RECEPTACLE STATION. REFER TO TL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALATION.
15. PROVIED (1) 120V 20A CIRCUIT TO "MULTI-CIRCUIT WALL BOX" AND TERMINATE TO L5-20R RECEPTALCE" FROM MBP. REFER TO THEATRICAL SCHEDULES ON SHEEL TL-101J FOR CIRCUIT DESIGNATION. DEVICE PROVIDED BY DIV 11. REFER TO THEATRICAL TL DRAWINGS FOR EXACT LOCAITON, MOUNTING HEIGHT AND ADDITIONAL INFORMATION.
16. PROVIDE (6) 120V 20A CIRCUIT FROM THEATRICAL MBP PANEL FOR POWER TO MULTI CIRCUIT PLUGGING BOX. REFER TO THEATRICAL DRAWINGS FOR PLUG BOX TYPE, EXACT LOCATION, PANEL CIRCUIT DESIGNATION AND ADDITIONAL INFORMATION.
17. PROVIDE (1) 120V 20A CIRCUIT FROM THEATRICAL MBP PANEL FOR POWER TO MULTI CIRCUIT PLUGGING BOX. REFER TO THEATRICAL DRAWINGS FOR PLUG BOX TYPE, EXACT LOCATION, PANEL CIRCUIT DESIGNATION AND ADDITIONAL INFORMATION.
18. PROVIDE (6) 120V 20A CIRCUIT FROM THEATRICAL MBP PANEL FOR POWER TO MULTI CIRCUIT PLUGGING RACEWAY. REFER TO THEATRICAL DRAWINGS FOR PLUG BOX TYPE, EXACT LOCATION, PANEL CIRCUIT DESIGNATION AND ADDITIONAL INFORMATION.
19. JUNCTION BOX FOR POWER TO RIGGING CONTROL PANEL. REFER TO MANUFACTURER WIRING REQUIRMENTS FOR EXACT TERMINATION. REFER TO THEATRICAL RIGGING DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.

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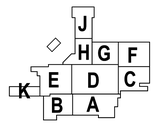

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST LEVEL POWER PLAN - AREA J

E-101J

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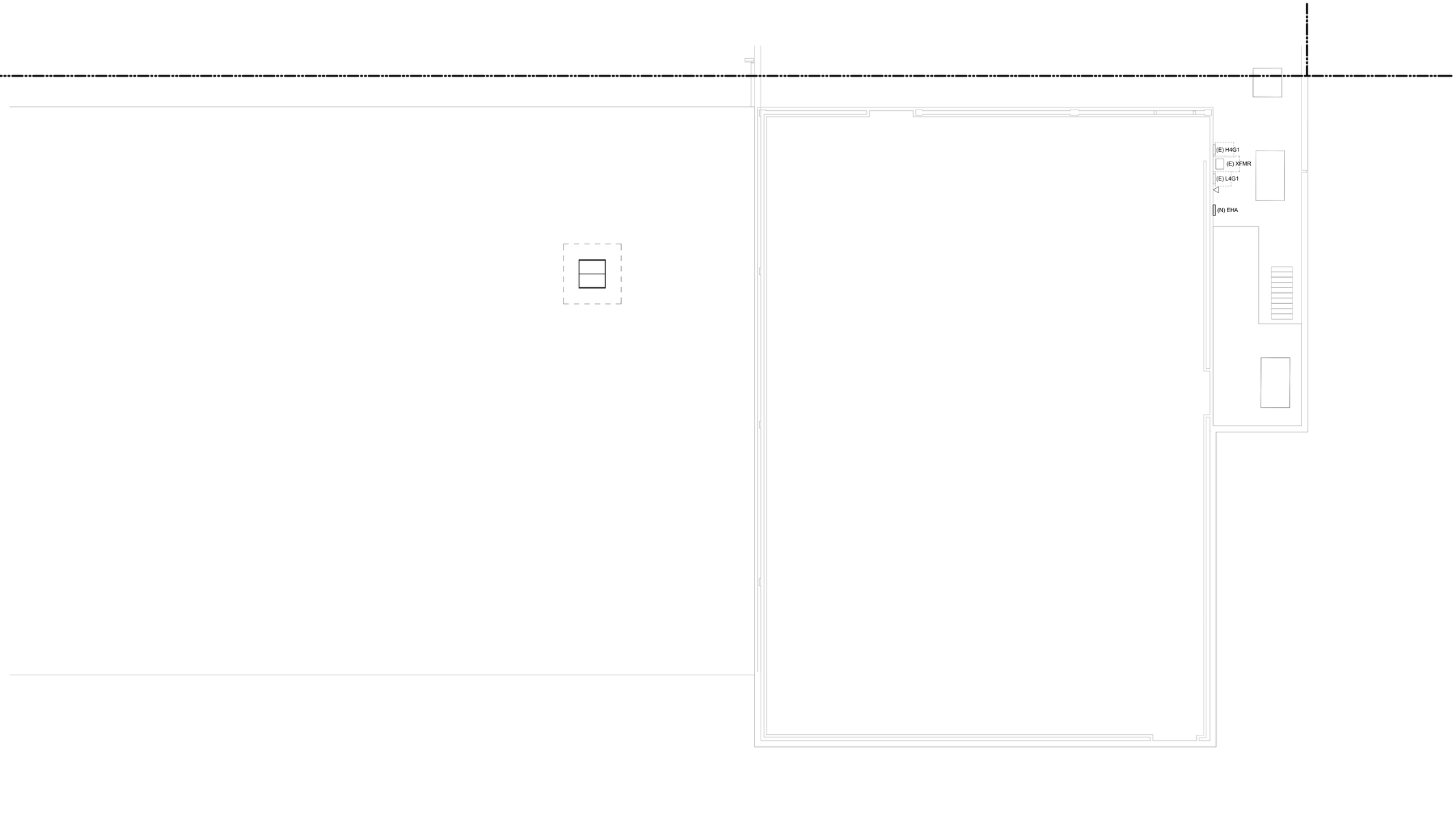
POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. CONTRACTOR TO RELOCATE EXISITNG RECEPTACLES WITHIN SCIENCE LABS TO COMPLY WITH NEW CASEWORK LAYOUT IN THESE ROOMS.
2. CONTRACTOR TO SERVE NEW PAINT BOOTH FROM PANEL THAT SERVED EXISITING PAINT BOOTH DEMOED IN PREVIOUS PHASE OF PROJECT. CONTRACTOR SHALL SERVE PAINT BOOTH WITH NEW BREAKER, CONDUIT AND WIRE .
3. CONTRACTOR SHALL PROVIDE POWER TO TWO NEW HEATING BOILERS.
4. PROVIDE (1) L6-30R RECEPTACLE ABOVE EACH TECHNOLOGY RACK. COORDINATE EXACT MOUNTING AND POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLE TO BE SERVED BY NEAREST STANDBY POWER 120V/208Y PANEL VIA 30A/2P BREAKER AND 3#10, 1#10G 1"C.
5. PROVIDE (1) QUAD RECEPTACLE FOR NEW AV RACK. COORDINATE EXACT MOUNTING AND POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
6. CONTRACTOR SHALL PROVIDE MAPPA PEDESTAL MOUNTED DISCONNECT TO SERVE NEW ACCU LOCATED ON ROOF. CONTRACTOR SHALL SERVE ACCU BY NEAREST STANDBY POWER 120V/208Y PANEL VIA 25A/2P BREAKER AND 2#10, 1#12G 1"C. REFER TO DETAIL #4/E-602 FOR ADDITIONAL INFORMATION.
7. PROVIDE JUNCTION BOX FOR POWER TO NEW FACP. COORDINATE EXACT LOCAITON WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. FACP TO BE SERVED BY NEAREST STANDBY POWER 120V/208Y PANEL VIA 20A/1P BREAKER AND 2#12, 1#12G 1"C.
8. CONTRACTOR TO SERVE NEW DUST COLLECTOR FROM CIRCUIT THAT SERVED EXISITING DUST COLLECTOR DEMOED IN PREVIOUS PHASE OF PROJECT. CONTRACTOR SHALL SERVE DUST COLLECTOR WITH NEW BREAKER, CONDUIT AND WIRE .



1 **MEZZANINE POWER PLAN - AREA A**
SCALE: 1/8" = 1'-0"

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MEZZANINE POWER PLAN - AREA A
E-102A
FOR BLUEBEAM LABELING/OCR:

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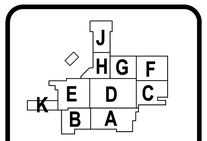

KEY PLAN
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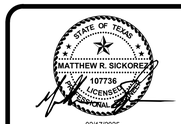

02/17/2025
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F-10672

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Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

MEZZANINE POWER PLAN - AREA A

E-102A

ISSUE FOR PROPOSAL

MEZZANINE POWER PLAN - AREA H

E-102H

FOR BLUEBEAM LABELING/OCR:

0"

1"

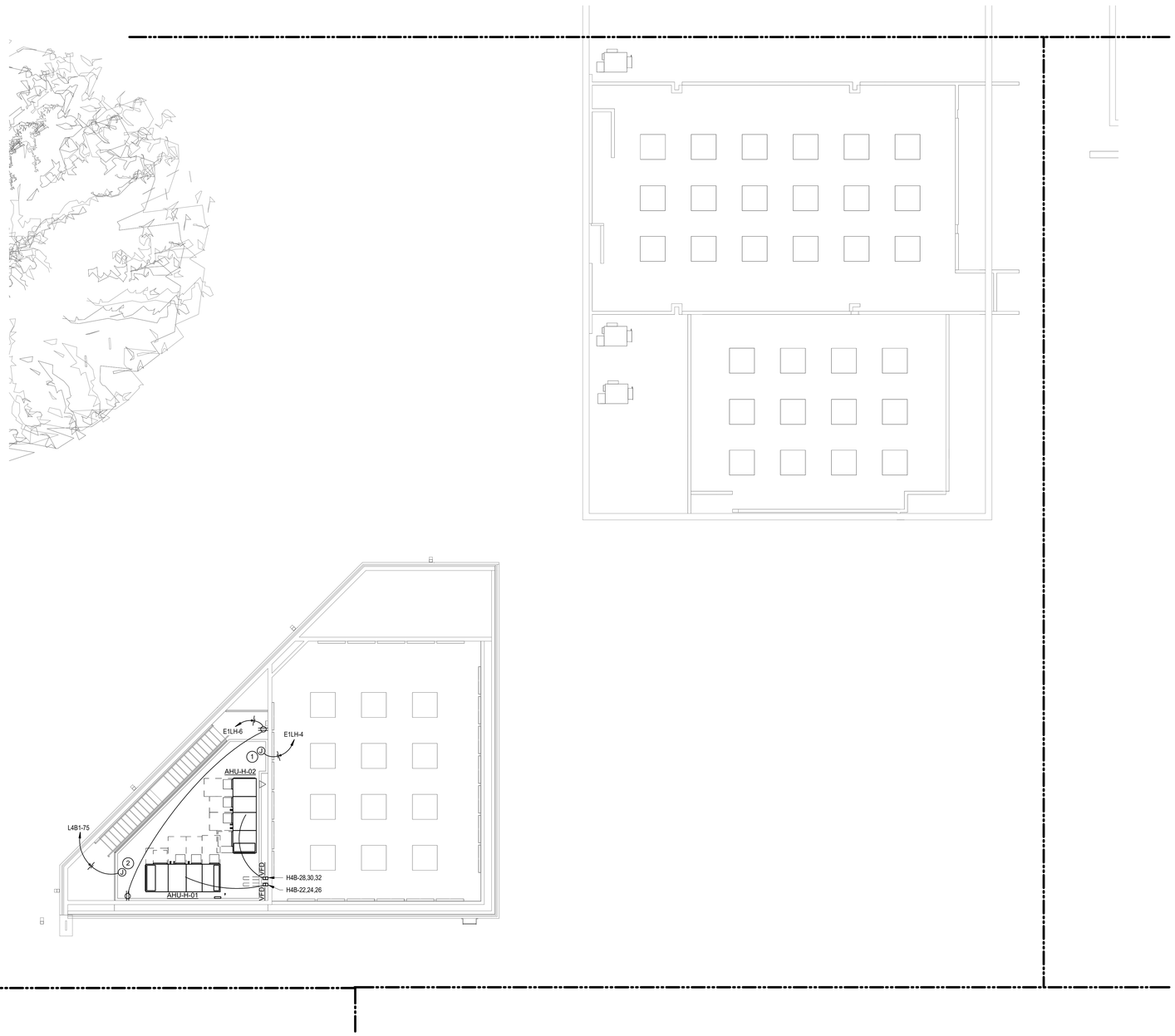
POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

(1) PROVIDE JUNCTION BOX FOR POWER TO BUILDING AUTOMATION SYSTEMS. VERIFY EXACT LOCATION WITH CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. RE-USE EXISTING CONDUIT.

(2) PROVIDE POWER TO MOTORIZED HOIST. CONFIRM EXACT LOCATION AND CONTROL SWITCH LOCATION WITH ARCHITECT DRAWINGS PRIOR TO INSTALLATION.



1 MEZZANINE POWER PLAN - AREA H
SCALE: 1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

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LEAF ENGINEERS

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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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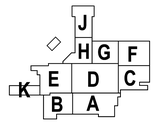
KEY PLAN



NORTH: PLAN TRUE

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DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

MEZZANINE POWER PLAN - AREA H

E-102H

0"
1"

MEZZANINE POWER PLAN - AREA J
E-102J
FOR BLUEBEAM LABELING/OCR:

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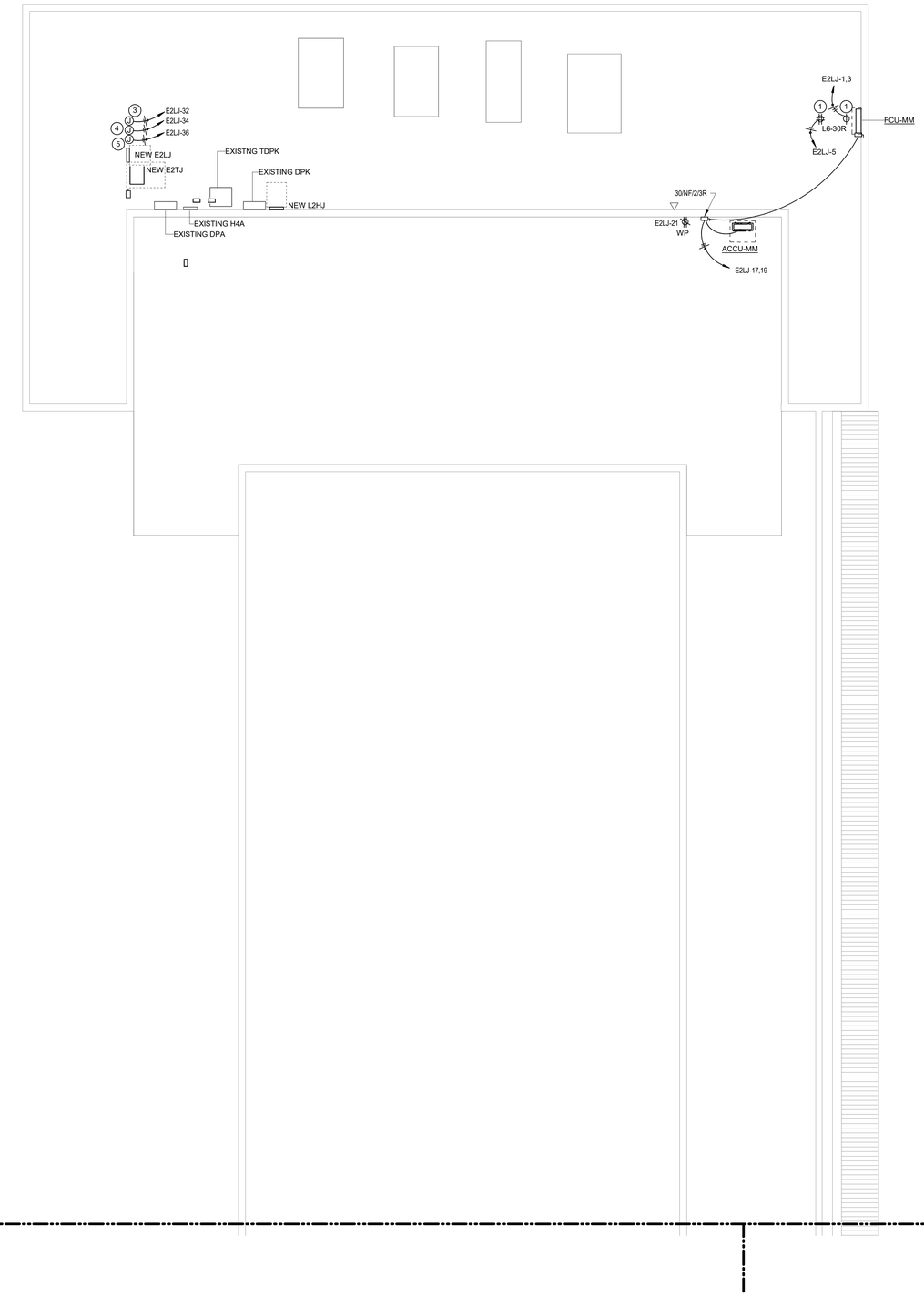

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. PROVIDE (1) L6-30R RECEPTACLE AND (1) QUAD RECEPTACLE ABOVE EACH TECHNOLOGY RACK. L6-30R RECEPTACLE TO BE SERVED BY NEAREST STANDBY POWER 120V/208Y PANEL VIA (1) 30A/2P BREAKER AND 3#10, 1#10G 1"C.
2. CONTRACTOR SHALL PROVIDE MAPPA PEDESTAL MOUNTED DISCONNECT TO SERVE NEW ACCU LOCATED ON ROOF. CONTRACTOR SHALL SERVE ACCU BY NEAREST STANDBY POWER 120V/208Y PANEL VIA 25A/2P BREAKER AND 2#10, 1#12G 1"C. REFER TO DETAIL #4/E-602 FOR ADDITIONAL INFORMATION.
3. JUNCTION BOX FOR POWER TO FIRE ALARM POWER SUPPLY. COORDINATE EXACT MOUNTING LOCATION WITH FIRE ALARM DRAWINGS PRIOR TO ROUGH-IN.
4. PROVIDE JUNCTION BOX FOR POWER TO BUILDING AUTOMATION SYSTEMS. VERIFY EXACT LOCATION WITH CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. RE-USE EXISTING CONDUIT.
5. EXISTING GENERAL POWER RECEPTACLES IN MECHANICAL/ELECTRICAL/IDF ROOM TO BE INTERCEPTED WITH NEW EMERGENCY POWER CIRCUIT. RE-USE EXISTING CONDUIT TO CONNECT EXISTING OUTLETS TO EMERGENCY POWER.

1 **MEZZANINE POWER PLAN - AREA J**
SCALE: 1/8" = 1'-0"

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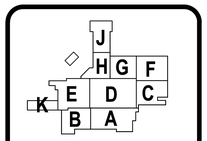

KEY PLAN
NORTH: PLAN TRUE

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DATE	PROJECT NUMBER
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DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

MEZZANINE POWER PLAN - AREA J

E-102J

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1ST LEVEL LIGHTING DEMO PLAN - COMPOSITE
ED-201
FOR BLUEBEAM LABELING:OCR:

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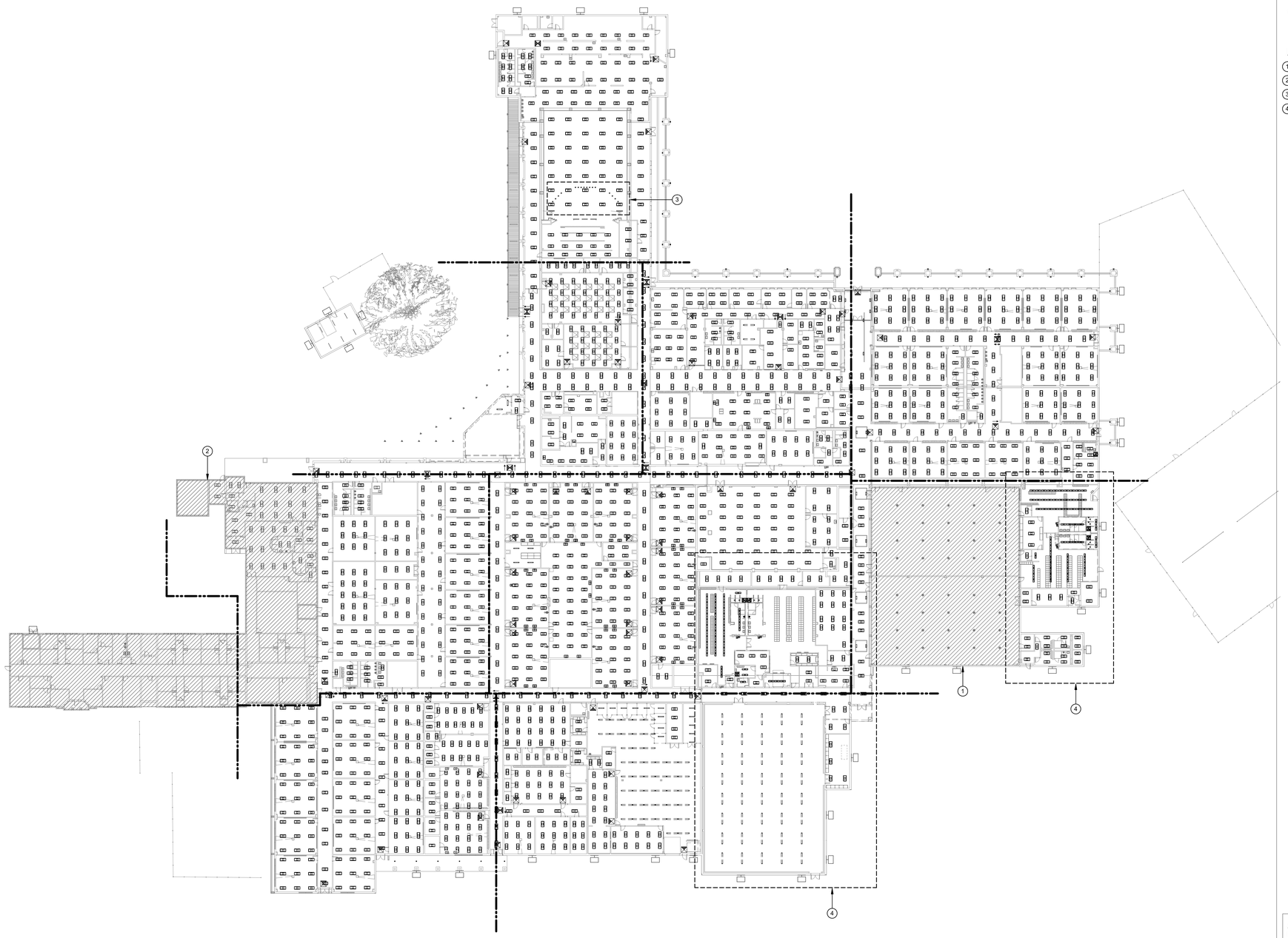
LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025



DEMOLITION PLAN GENERAL NOTES:

1. ALL ITEMS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. PRIOR TO DEMOLITION OF ANY ELECTRICAL EQUIPMENT AND OR CONDUIT, CONTRACTOR SHALL FIELD VERIFY AND DOCUMENT EXISTING BRANCH CIRCUIT INFORMATION INCLUDEING BUT NOT LIMITED TO CIRCUIT BREAKER, CONDUCTORS, CONDUIT, PHASE AND VOLTAGE.
2. DISCONNECT AND REMOVE ALL WIRING, CONDUIT, DISCONNECTS, AND OTHER DEVICES ASSOCIATED WITH MECHANICAL AND PLUMBING EQUIPMENT BEING REMOVED. LABEL SOURCE BREAKER(S) "SPARE" IN PANEL. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF ALL HVAC AND PLUMBING EQUIPMENT TO BE DEMOLISHED.
3. REMOVE ALL WIRING, CONDUIT AND ASSOCIATED DEVICES IN WALLS TO BE REMOVED. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES WHICH REMAIN.
4. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER.
5. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
6. WHEN REMOVING EXISTING ELECTRICAL WORK SUCH AS RECEPTACLES, LIGHT FIXTURES,ETC. WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY.
7. EXISTING ELECTRICAL BOXES TO REMAIN IN AREAS WHERE NEW WALL FINISHES ARE TO BE APPLIED SHALL BE RESET AS NECESSARY TO PROVIDE FLUSH MOUNTING FOR BOXES.
8. CONTRACTOR SHALL FIELD VERIFY EXISITNG BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT.
9. CONTRACTOR SHALL REFER TO ARCHITECT DEMOLITION PLANS AND PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF THE SCOPE OF THE PROJECT PRIOR TO COMMENCEMENT OF WORK.
10. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, ALL STATE AND LOCAL CODES AND AMENDMENTS.
11. WHERE ELECTRICAL EQUIPMENT IS BEING DEMOED AND REPLACED; CONTRACTOR SHALL ENSURE THAT EXISING SERVING FEEDERS AND WIRING ARE EXTENDED AND RECONNECTED TO NEW BREAKERS WITHIN NEW ELECTRICAL EQUIPMENT AS NECESSARY.

DEMOLITION POWER PLAN KEYED NOTES:

1. ONLY CONTROLS REPLACEMENT IN THIS AREA.
2. AREA NOT IN SCOPE.
3. DEMO EXISTING THEATRICAL STAGE LIGHTING AND CONTROLS.
4. ALL EXISTING EXIT SIGNS IN THIS AREA TO BE DEMOLISHED. FIELD VERIY EXACT QUANTITY OF EXIT SIGNS TO BE REMOVED AND DISCONNECTED PRIOR TO BID.

ALL LIGHTING FIXTURES (INCLUDING EXIT SIGNS) AND LIGHTING CONTROL APPARATUS WITHIN THIS BUILDING SHALL BE REPLACED UNLESS NOTED OTHERWISE. THE EXISTING BUILDING IS CURRENTLY CONTROLLED BY NORMAL AND EMERGENCY RELAY PANELS. DEMOLISH ALL RELAY PANELS AND ASSOCIATED LOW VOLTAGE SWITCHES. NORMAL POWER LIGHTING BRANCH CIRCUITS SHALL BE EXTENDED TO EXISTING LIGHTING POWER PANELS, AND IN GENERAL ARE TO REMAIN. EXISTING EMERGENCY LIGHTING CIRCUITS AND EXIT SIGN CIRCUITS SHALL BE DEMOLISHED.

1 1ST LEVEL LIGHTING DEMO PLAN - COMPOSITE
SCALE: 1/32" = 1'-0"

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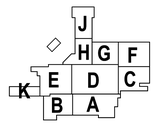
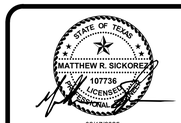


KEY PLAN
NORTH: PLAN TRUE



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02/17/2025	220023

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1ST LEVEL LIGHTING DEMO PLAN - COMPOSITE

ED-201

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LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A", ALL EXIT SIGNS ARE TYPE "X".
3. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY/VACANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO ROOM CONTROLLERS, WIRING, ETC. PROVIDE A COMPLETE SYSTEM OF WATTSTOPPER DLM LIGHTING CONTROLS. RE: DIVISION 26 SPECIFICATIONS AND ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
4. REMOVE ALL SWITCHES FROM CORRIDORS AND REPLACE WITH BLANK COVER PLATES EXCEPT AT SECURITY PANELS. REFER TO PLANS FOR LOCATION(S) OF SWITCHES AT SECURITY PANELS.
5. REMOVE EXISTING SWITCHES FROM GANG RESTROOMS AND REPLACE WITH BLANK COVER PLATE TO BE CONNECTED TO CORRIDOR LIGHTING CONTROLS.
6. PROVIDE A GREEN DOT (STICKER) ON CEILING GRID UNDERNEATH ALL ROOM CONTROLLERS SERVING CORRIDOR LIGHTING.
7. CORRIDOR LIGHTING CONTROL SHALL HAVE THE FOLLOWING FUNCTIONALITY:
   A. MASTER SWITCHES TO BE LOCATED AT SECURITY KEYPADS SHALL TURN ON ALL CORRIDORS AT ONCE.
   B. BUILDING SHALL OPERATE BY ZONES - DURING OCCUPIED HOURS, OCCUPANCY SENSOR SHALL TURN ON LIGHTING BUT NOT OFF.
   C. DURING UNOCCUPIED HOURS, OPERATES BASED ON SENSOR ONLY.
8. WHERE FEWER SWITCHES ARE REQUIRED THAN EXISTING, PROVIDE DRYWALL TRIM RING CORRESPONDING TO NUMBER OF SWITCHES SHOWN ON THESE PLANS, AND PATCH AND PAINT OPENING. EX: CLASSROOMS
9. WHERE ACCESSIBLE CEILING HEIGHTS ARE 12-FEET AFF OR LESS, ROOM CONTROLLERS AND ASSOCIATED HARDWARE SHALL BE MOUNTED ON 2' X 2' X ¾-INCH BACK BOARD OF NON-NOMBUSTIBLE MATERIALS, ON WALL ABOVE LOCAL CONTROL SWITCH LOCATION, BETWEEN 4 AND 18-INCHES ABOVE THE ACCESSIBLE CEILING AND 2-INCHES CLEAR OF T-GRID FOR ABOVE CEILING ACCESS. THE CONTRACTOR SHALL NOT PAINT THE BACKBOARD, NOR SHALL THE UL LISTING LABELING BE OBSCURED. LABEL CEILING GRID BELOW ALL ROOM CONTROLLERS.
10. WHERE CEILING HEIGHTS ARE ABOVE 12-FEET, ROOM CONTROLLERS SHALL BE MOUNTED IN AN ANCILLARY AREA WITH ACCESSIBLE CEILING OF 12-FEET OR LESS WITH THE HIGH CEILING ROOM CONTROLLER MOUNTED ADJACENT TO THE LOWER CEILING ROOM CONTROLLER SERVING THE ANCILLARY AREA. THE ROOM CONTROLLER FOR THE HIGH CEILING AND ANCILLARY AREA(S) MAY UTILIZE THE SAME ROOM CONTROLLER FOR EACH AREA IF PRACTICAL. IF AN ANCILLARY AREA WITH LOWER ACCESSIBLE CEILING AREA IS NOT AVAILABLE, THE ROOM CONTROLLER SHALL BE INSTALLED IN THE SAME MECHANICAL OR ELECTRICAL ROOM AS THE ELECTRICAL PANEL SERVING THE LIGHTING FOR THAT AREA AND CLEARLY LABELED FOR ITS USE AND SPECIFIC ROOM THAT IT CONTROLS. LABEL CEILING GRID BELOW ALL ABOVE CEILING ROOM CONTROLS, SEE BELOW FOR LABELING REQUIREMENTS.
11. CORRIDORS, GYMS, AND OTHER HIGH-VOLUME SPACES WITHOUT LOW CEILING ANCILLARY AREAS: DLM ROOM CONTROLLERS SHALL BE LOCATED IN THE MECHANICAL/ELECTRICAL ROOM WHERE THE LIGHTING BRANCH CIRCUIT ORIGINATES, PREFERABLY NEXT TO THE NORMAL LIGHTING PANEL SERVING THE SPACE. WALL MOUNT TOP OF ENCLOSURE BETWEEN 36 AND 78-INCHES, STACK MULTIPLE ENCLOSURES TO CONSERVE WALL SPACE. PROVIDE EASILY IDENTIFIABLE LABELED ENCLOSURE FOR WALL MOUNTED DLM ROOM CONTROLLER. LABEL CEILING GRID BELOW ALL ABOVE CEILING ROOM CONTROLS; SEE BELOW FOR LABELING REQUIREMENTS.INCLUDE IN BID 10 ADDITIONAL EMERGENCY LIGHTING FIXTURES AND 10 EXIT SIGNS, LOCATION TO BE DETERMINED DURING CONSTRUCTION
12. ANY WIRING SERVING THE LIGHTING OR LIGHTING CONTROL SYSTEM SHALL BE IN CONDUIT. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

LIGHTING PLAN KEYED NOTES:

1. SWITCHES SHOWN ARE RELOCATED FROM THE EXISTING LOCATION. CONDUIT SHALL BE PROVIDED AND INSTALLED IN CHASE.
2. LAYOUT OF NEW LINEAR LIGHTING FIXTURES DIFFERS FROM EXISTING LAYOUT. PROVIDE NEW BRANCH CIRCUIT WIRE AND CONDUIT TO LINEAR FIXTURES IN THE CORRIDOR.

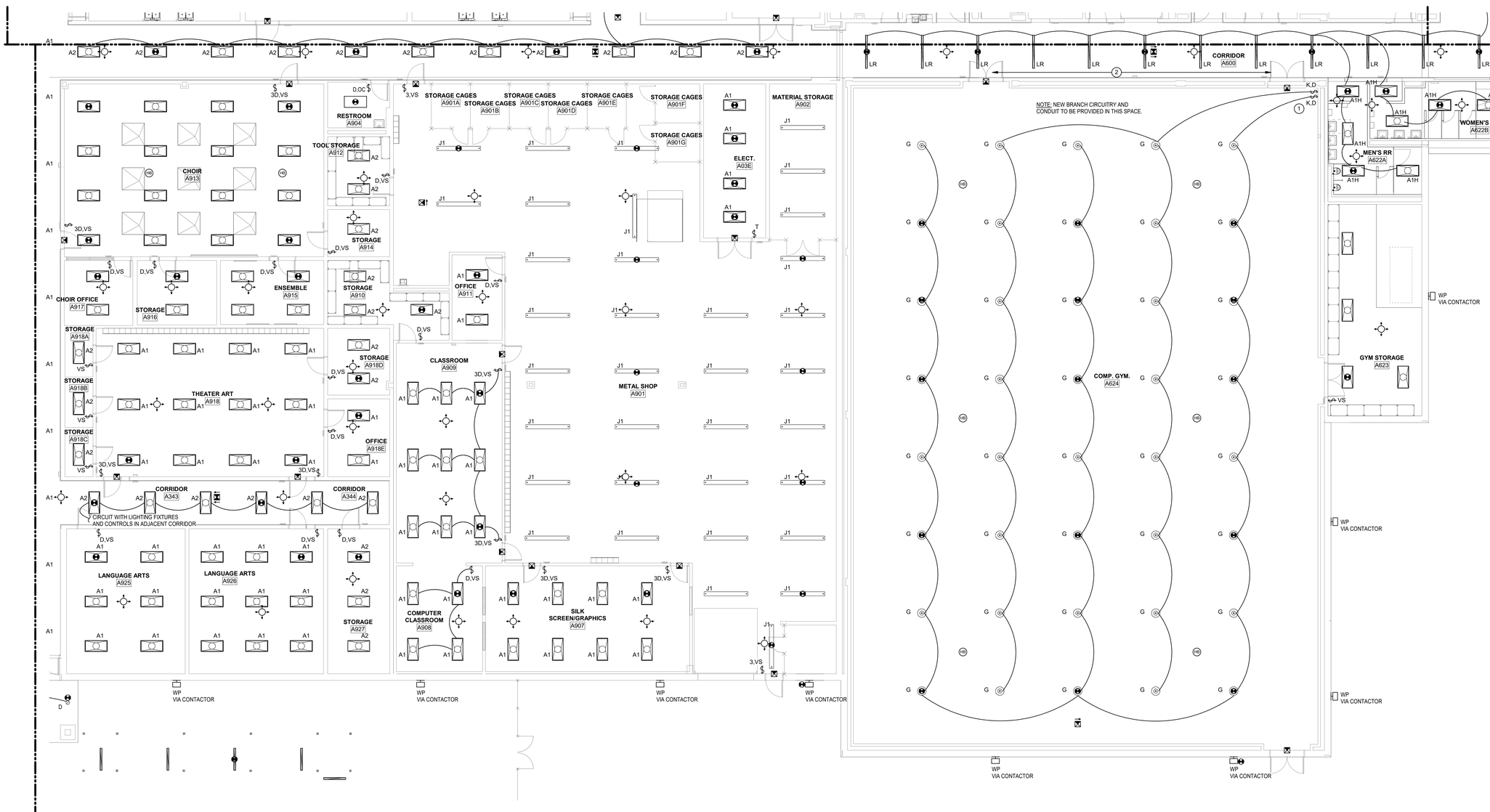
LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025

PROVIDE (8) 6-POLE EXTERIOR LIGHTING CONTACTORS. PROVIDE FOR ALL EXISTING EXTERIOR LIGHTING CIRCUITS AND PROVIDE CONNECTION TO BAS. REFER TO DETAILS FOR ADDITIONAL INFORMATION. EXACT LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

NOTE THAT EXTERIOR LIGHTING AT THE ANNEX (AREA K) IS SERVED FROM ARNOLD MS ELECTRICAL DISTRIBUTION.

PROVIDE NEW LIGHT FIXTURES THROUGHOUT CAMPUS AS SHOWN. IN GENERAL, NEW FIXTURES ARE REPLACING EXISTING LIGHTING FIXTURES OF SIMILAR TYPE IN THE SAME LOCATION, WITH THE EXCEPTION OF LINEAR FIXTURES IN CORRIDORS AND LIBRARY, AND FIXTURES IN THE COMPETITION GYM AND CAFETERIA. CONNECT TO EXISTING LIGHTING CIRCUITS. PROVIDE NEW LIGHTING CONTROL DEVICES IN EACH SPACE AS SHOWN, UTILIZE EXISTING SWITCH LOCATIONS UNLESS NOTED OTHERWISE. PROVIDE EXTENSION OF CIRCUIT TO NEW ROOM CONTROLLER LOCATION IN EACH SPACE AS REQUIRED.

PROVIDE NEW 20A EMERGENCY LIGHTING CIRCUITS AND EXIT SIGN CIRCUITS FROM NEW EMERGENCY PANEL **XXXX** TO ALL FIXTURES DESIGNATED AS EMERGENCY ON THIS SHEET. PROVIDE TRANSFER DEVICE AT EACH LIGHTING FIXTURE DESIGNATED AS EMERGENCY SUCH THAT ALL EMERGENCY FIXTURES MAY BE SWITCHED ON AND OFF WITH NORMAL POWER FIXTURES. PROVIDE CONNECTION FROM NEARBY NORMAL POWER FIXTURE TO EACH TRANSFER DEVICE.



1 **1ST LEVEL LIGHTING PLAN - AREA A**
SCALE: 1/8" = 1'-0"

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1ST LEVEL LIGHTING PLAN - AREA A

E-201A

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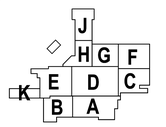
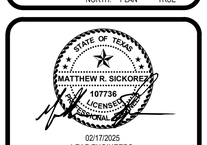


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL LIGHTING PLAN - AREA A

E-201A

0"
1"

1ST LEVEL LIGHTING PLAN - AREA B
E-201B
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A", ALL EXIT SIGNS ARE TYPE "X".
3. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY/VACANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO ROOM CONTROLLERS, WIRING, ETC. PROVIDE A COMPLETE SYSTEM OF WATTSTOPPER DLM LIGHTING CONTROLS. RE: DIVISION 26 SPECIFICATIONS AND ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
4. REMOVE ALL SWITCHES FROM CORRIDORS AND REPLACE WITH BLANK COVER PLATES EXCEPT AT SECURITY PANELS. REFER TO PLANS FOR LOCATION(S) OF SWITCHES AT SECURITY PANELS.
5. REMOVE EXISTING SWITCHES FROM GANG RESTROOMS AND REPLACE WITH BLANK COVER PLATE TO BE CONNECTED TO CORRIDOR LIGHTING CONTROLS.
6. PROVIDE A GREEN DOT (STICKER) ON CEILING GRID UNDERNEATH ALL ROOM CONTROLLERS SERVING CORRIDOR LIGHTING.
7. CORRIDOR LIGHTING CONTROL SHALL HAVE THE FOLLOWING FUNCTIONALITY:
   A. MASTER SWITCHES TO BE LOCATED AT SECURITY KEYPADS SHALL TURN ON ALL CORRIDORS AT ONCE.
   B. BUILDING SHALL OPERATE BY ZONES - DURING OCCUPIED HOURS, OCCUPANCY SENSOR SHALL TURN ON LIGHTING BUT NOT OFF.
   C. DURING UNOCCUPIED HOURS, OPERATES BASED ON SENSOR ONLY.
8. WHERE FEWER SWITCHES ARE REQUIRED THAN EXISTING, PROVIDE DRYWALL TRIM RING CORRESPONDING TO NUMBER OF SWITCHES SHOWN ON THESE PLANS, AND PATCH AND PAINT OPENING. EX: CLASSROOMS
9. WHERE ACCESSIBLE CEILING HEIGHTS ARE 12-FEET AFF OR LESS, ROOM CONTROLLERS AND ASSOCIATED HARDWARE SHALL BE MOUNTED ON 2' X 2' X ¾-INCH BACK BOARD OF NON-NOMBUSTIBLE MATERIALS, ON WALL ABOVE LOCAL CONTROL SWITCH LOCATION, BETWEEN 4 AND 18-INCHES ABOVE THE ACCESSIBLE CEILING AND 2-INCHES CLEAR OF T-GRID FOR ABOVE CEILING ACCESS. THE CONTRACTOR SHALL NOT PAINT THE BACKBOARD, NOR SHALL THE UL LISTING LABELING BE OBSCURED. LABEL CEILING GRID BELOW ALL ROOM CONTROLLERS.
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1 **1ST LEVEL LIGHTING PLAN - AREA B**
SCALE: 1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

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TX Firm: BR 1608

CIVIL
CONSULTANT NAME
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LANDSCAPE
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MEP
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ACOUSTIC
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CURTAIN
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T.000.000.0000
FOOD SERVICE
CONSULTANT NAME
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OTHER
CONSULTANT NAME
T.000.000.0000

LEAF ENGINEERS

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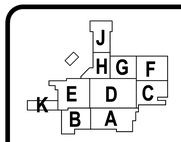
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



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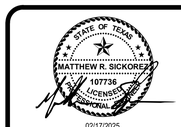

02/17/2025
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BUILDING NUMBER

1ST LEVEL LIGHTING PLAN - AREA B

E-201B

ISSUE FOR PROPOSAL

1ST LEVEL LIGHTING PLAN - AREA C

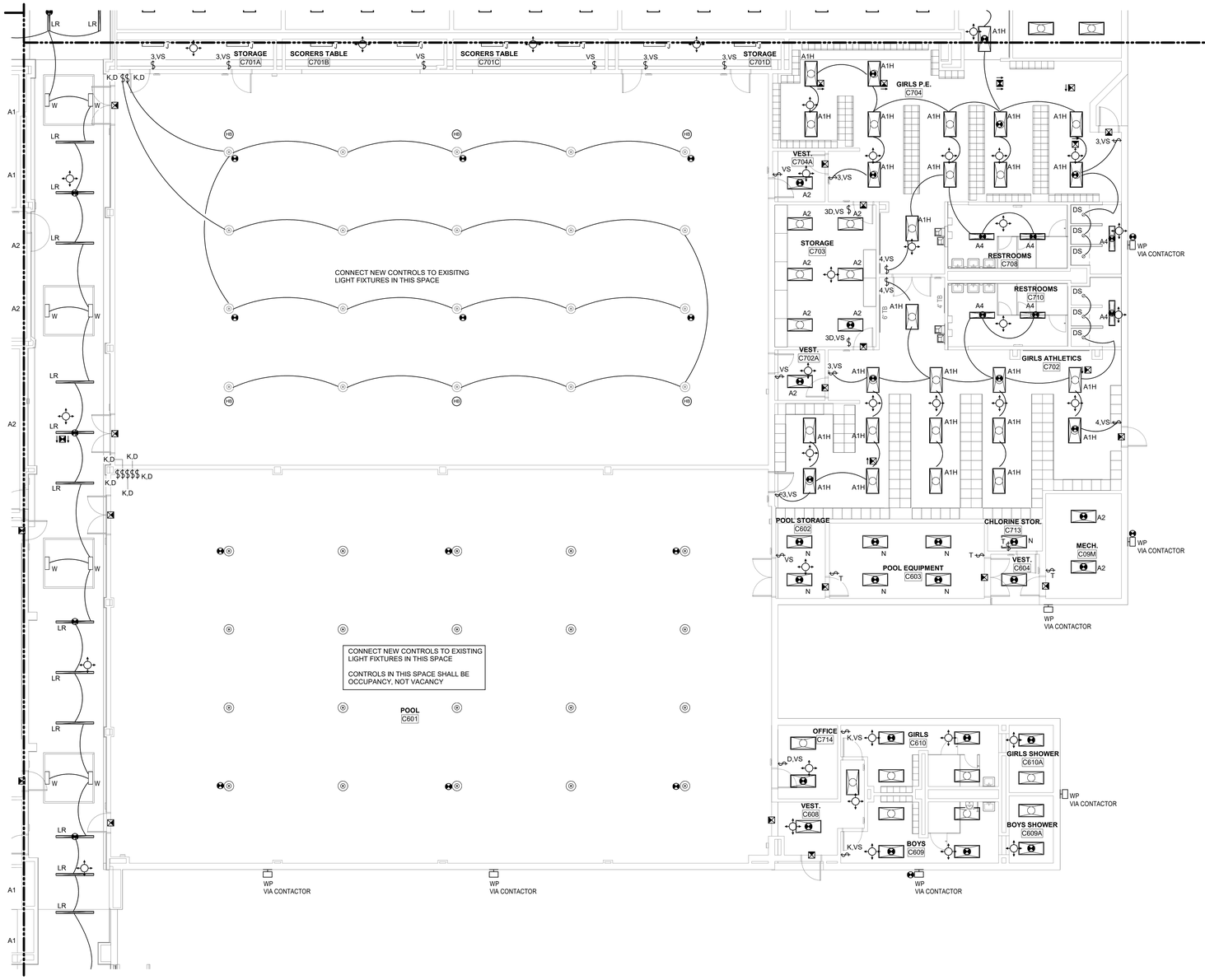
E-201C

FOR BLUEBEAM LABELING/OCR:

0"

1"

LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025



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LIGHTING PLAN KEYED NOTES

(1) LOWER-CASE INDICATES SWITCHING GROUP.

PROVIDE NEW LIGHT FIXTURES THROUGHOUT CAMPUS AS SHOWN. IN GENERAL, NEW FIXTURES ARE REPLACING EXISTING LIGHTING FIXTURES OF SIMILAR TYPE IN THE SAME LOCATION, WITH THE EXCEPTION OF LINEAR FIXTURES IN CORRIDORS AND LIBRARY, AND FIXTURES IN THE COMPETITION GYM AND CAFETERIA. CONNECT TO EXISTING LIGHTING CIRCUITS. PROVIDE NEW LIGHTING CONTROL DEVICES IN EACH SPACE AS SHOWN, UTILIZE EXISTING SWITCH LOCATIONS UNLESS NOTED OTHERWISE. PROVIDE EXTENSION OF CIRCUIT TO NEW ROOM CONTROLLER LOCATION IN EACH SPACE AS REQUIRED.

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1 **1ST LEVEL LIGHTING PLAN - AREA C**
SCALE: 1/8" = 1'-0"

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MEP
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ACOUSTIC
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CURTAIN
CONSULTANT NAME
T 000-000-0000
FOOD SERVICE
CONSULTANT NAME
T 000-000-0000
OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MATTHEW R. SICKOREZ
107736
LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

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1ST LEVEL LIGHTING PLAN - AREA C

E-201C

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0"

1"

1ST LEVEL LIGHTING PLAN - AREA D

E-201D

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

LIGHTING PLAN GENERAL NOTES

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LIGHTING PLAN KEYED NOTES:

1. LAYOUT OF NEW LINEAR LIGHTING FIXTURES DIFFERS FROM EXISTING LAYOUT. PROVIDE NEW BRANCH CIRCUIT WIRE AND CONDUIT TO LINEAR FIXTURES IN THE CORRIDOR.
2. CONTRACTOR SHALL ENSURE FIXTURES INSTALLED IN MECHANICAL ROOMS WITH DUCTWORK SHALL NOT CONFLICT WITH DUCTS WHEREVER POSSIBLE.

LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025

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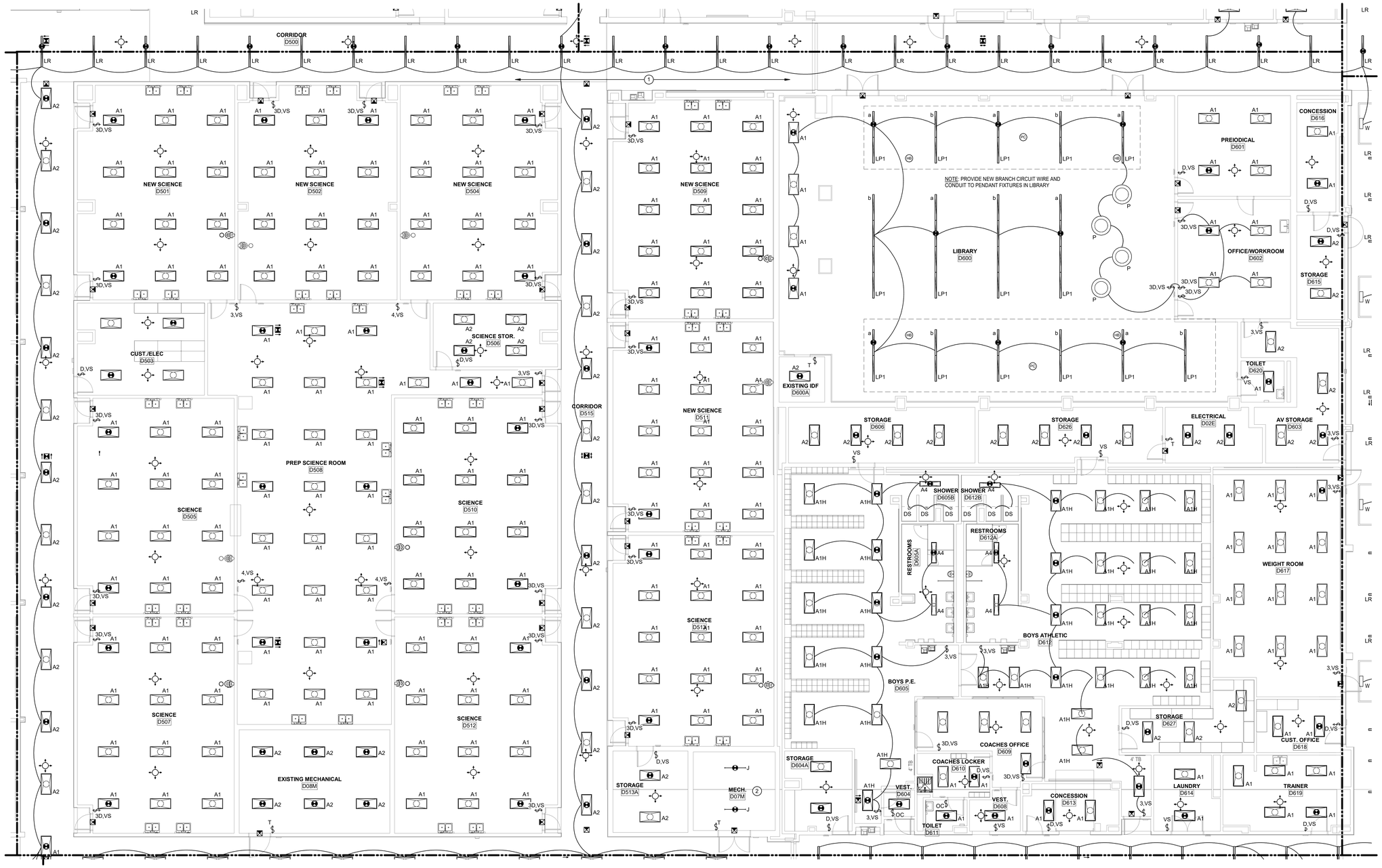

1 **1ST LEVEL LIGHTING PLAN - AREA D**
SCALE: 1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

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DRAWN BY: Author
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1ST LEVEL LIGHTING PLAN - AREA D

E-201D

0"

1"

1ST LEVEL LIGHTING PLAN - AREA E

E-201E

FOR BLUEBEAM LABELING/OCR:

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   C. DURING UNOCCUPIED HOURS, OPERATES BASED ON SENSOR ONLY.
8. WHERE FEWER SWITCHES ARE REQUIRED THAN EXISTING, PROVIDE DRYWALL TRIM RING CORRESPONDING TO NUMBER OF SWITCHES SHOWN ON THESE PLANS, AND PATCH AND PAINT OPENING. EX: CLASSROOMS
9. WHERE ACCESSIBLE CEILING HEIGHTS ARE 12-FEET AFF OR LESS, ROOM CONTROLLERS AND ASSOCIATED HARDWARE SHALL BE MOUNTED ON 2' X 2' X ¾-INCH BACK BOARD OF NON-NOMBUSTIBLE MATERIALS, ON WALL ABOVE LOCAL CONTROL SWITCH LOCATION, BETWEEN 4 AND 18-INCHES ABOVE THE ACCESSIBLE CEILING AND 2-INCHES CLEAR OF T-GRID FOR ABOVE CEILING ACCESS. THE CONTRACTOR SHALL NOT PAINT THE BACKBOARD, NOR SHALL THE UL LISTING LABELING BE OBSCURED. LABEL CEILING GRID BELOW ALL ROOM CONTROLLERS.
10. WHERE CEILING HEIGHTS ARE ABOVE 12-FEET, ROOM CONTROLLERS SHALL BE MOUNTED IN AN ANCILLARY AREA WITH ACCESSIBLE CEILING OF 12-FEET OR LESS WITH THE HIGH CEILING ROOM CONTROLLER MOUNTED ADJACENT TO THE LOWER CEILING ROOM CONTROLLER SERVING THE ANCILLARY AREA. THE ROOM CONTROLLER FOR THE HIGH CEILING AND ANCILLARY AREA(S) MAY UTILIZE THE SAME ROOM CONTROLLER FOR EACH AREA IF PRACTICAL. IF AN ANCILLARY AREA WITH LOWER ACCESSIBLE CEILING AREA IS NOT AVAILABLE, THE ROOM CONTROLLER SHALL BE INSTALLED IN THE SAME MECHANICAL OR ELECTRICAL ROOM AS THE ELECTRICAL PANEL SERVING THE LIGHTING FOR THAT AREA AND CLEARLY LABELED FOR ITS USE AND SPECIFIC ROOM THAT IT CONTROLS. LABEL CEILING GRID BELOW ALL ABOVE CEILING ROOM CONTROLS, SEE BELOW FOR LABELING REQUIREMENTS.
11. CORRIDORS, GYMS, AND OTHER HIGH-VOLUME SPACES WITHOUT LOW CEILING ANCILLARY AREAS: DLM ROOM CONTROLLERS SHALL BE LOCATED IN THE MECHANICAL/ELECTRICAL ROOM WHERE THE LIGHTING BRANCH CIRCUIT ORIGINATES, PREFERABLY NEXT TO THE NORMAL LIGHTING PANEL SERVING THE SPACE. WALL MOUNT TOP OF ENCLOSURE BETWEEN 36 AND 78-INCHES, STACK MULTIPLE ENCLOSURES TO CONSERVE WALL SPACE. PROVIDE EASILY IDENTIFIABLE LABELED ENCLOSURE FOR WALL MOUNTED DLM ROOM CONTROLLER. LABEL CEILING GRID BELOW ALL ABOVE CEILING ROOM CONTROLS; SEE BELOW FOR LABELING REQUIREMENTS.INCLUDE IN BID 10 ADDITIONAL EMERGENCY LIGHTING FIXTURES AND 10 EXIT SIGNS, LOCATION TO BE DETERMINED DURING CONSTRUCTION
12. ANY WIRING SERVING THE LIGHTING OR LIGHTING CONTROL SYSTEM SHALL BE IN CONDUIT. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

LIGHTING PLAN KEYED NOTES:

1. LAYOUT OF NEW LINEAR LIGHTING FIXTURES DIFFERS FROM EXISTING LAYOUT. PROVIDE NEW BRANCH CIRCUIT WIRE AND CONDUIT TO LINEAR FIXTURES IN THE CORRIDOR.
2. CONTRACTOR SHALL ENSURE FIXTURES INSTALLED IN MECHANICAL ROOMS WITH DUCTWORK SHALL NOT CONFLICT WITH DUCTS WHEREVER POSSIBLE.

LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025

PROVIDE NEW LIGHT FIXTURES THROUGHOUT CAMPUS AS SHOWN. IN GENERAL, NEW FIXTURES ARE REPLACING EXISTING LIGHTING FIXTURES OF SIMILAR TYPE IN THE SAME LOCATION, WITH THE EXCEPTION OF LINEAR FIXTURES IN CORRIDORS AND LIBRARY, AND FIXTURES IN THE COMPETITION GYM AND CAFETERIA. CONNECT TO EXISTING LIGHTING CIRCUITS. PROVIDE NEW LIGHTING CONTROL DEVICES IN EACH SPACE AS SHOWN, UTILIZE EXISTING SWITCH LOCATIONS UNLESS NOTED OTHERWISE. PROVIDE EXTENSION OF CIRCUIT TO NEW ROOM CONTROLLER LOCATION IN EACH SPACE AS REQUIRED.

PROVIDE NEW 20A EMERGENCY LIGHTING CIRCUITS AND EXIT SIGN CIRCUITS FROM NEW EMERGENCY PANEL **XXXX** TO ALL FIXTURES DESIGNATED AS EMERGENCY ON THIS SHEET. PROVIDE TRANSFER DEVICE AT EACH LIGHTING FIXTURE DESIGNATED AS EMERGENCY SUCH THAT ALL EMERGENCY FIXTURES MAY BE SWITCHED ON AN OFF WITH NORMAL POWER FIXTURES. PROVIDE CONNECTION FROM NEARBY NORMAL POWER FIXTURE TO EACH TRANSFER DEVICE.

1 **1ST LEVEL LIGHTING PLAN - AREA E**
SCALE: 1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

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LANDSCAPE
CONSULTANT NAME
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STRUCTURAL
CONSULTANT NAME
T 000-000-0000

MEP
CONSULTANT NAME
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ACOUSTIC
CONSULTANT NAME
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SPECIALTY
CONSULTANT NAME
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FOOD SERVICE
CONSULTANT NAME
T 000-000-0000

OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MATTHEW R. SICKOREZ
107736
LICENSED
PROFESSIONAL
ENGINEER
02/17/2025
LEAF ENGINEERS
F-16672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date
	ISSUE FOR PROPOSAL	

BUILDING NUMBER

1ST LEVEL LIGHTING PLAN - AREA E

E-201E

0"
1"

1ST LEVEL LIGHTING PLAN - AREA F
E-201F
FOR BLUEBEAM LABELING:OCR:

ISSUE FOR PROPOSAL

LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025

1 1ST LEVEL LIGHTING PLAN - AREA F
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A", ALL EXIT SIGNS ARE TYPE "X".
3. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY/VACANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO ROOM CONTROLLERS, WIRING, ETC. PROVIDE A COMPLETE SYSTEM OF WATTSTOPPER DLM LIGHTING CONTROLS. RE: DIVISION 26 SPECIFICATIONS AND ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
4. REMOVE ALL SWITCHES FROM CORRIDORS AND REPLACE WITH BLANK COVER PLATES EXCEPT AT SECURITY PANELS. REFER TO PLANS FOR LOCATION(S) OF SWITCHES AT SECURITY PANELS.
5. REMOVE EXISTING SWITCHES FROM GANG RESTROOMS AND REPLACE WITH BLANK COVER PLATE TO BE CONNECTED TO CORRIDOR LIGHTING CONTROLS.
6. PROVIDE A GREEN DOT (STICKER) ON CEILING GRID UNDERNEATH ALL ROOM CONTROLLERS SERVING CORRIDOR LIGHTING.
7. CORRIDOR LIGHTING CONTROL SHALL HAVE THE FOLLOWING FUNCTIONALITY:
   A. MASTER SWITCHES TO BE LOCATED AT SECURITY KEYPADS SHALL TURN ON ALL CORRIDORS AT ONCE.
   B. BUILDING SHALL OPERATE BY ZONES - DURING OCCUPIED HOURS, OCCUPANCY SENSOR SHALL TURN ON LIGHTING BUT NOT OFF.
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8. WHERE FEWER SWITCHES ARE REQUIRED THAN EXISTING, PROVIDE DRYWALL TRIM RING CORRESPONDING TO NUMBER OF SWITCHES SHOWN ON THESE PLANS, AND PATCH AND PAINT OPENING. EX: CLASSROOMS
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LIGHTING PLAN KEYED NOTES:

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CIVIL/LEED
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FOOD SERVICE
CONSULTANT NAME
T.000-000-0000
OTHER
CONSULTANT NAME
T.000-000-0000

LEAF ENGINEERS

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ISSUE FOR PROPOSAL

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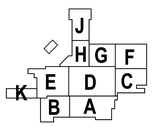
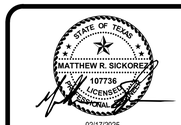


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL LIGHTING PLAN - AREA F

E-201F

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0"

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1ST LEVEL LIGHTING PLAN - AREA G

E-201G

FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A", ALL EXIT SIGNS ARE TYPE "X".
3. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY/VACANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO ROOM CONTROLLERS, WIRING, ETC. PROVIDE A COMPLETE SYSTEM OF WATTSTOPPER DLM LIGHTING CONTROLS. RE: DIVISION 26 SPECIFICATIONS AND ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
4. REMOVE ALL SWITCHES FROM CORRIDORS AND REPLACE WITH BLANK COVER PLATES EXCEPT AT SECURITY PANELS. REFER TO PLANS FOR LOCATION(S) OF SWITCHES AT SECURITY PANELS.
5. REMOVE EXISTING SWITCHES FROM GANG RESTROOMS AND REPLACE WITH BLANK COVER PLATE TO BE CONNECTED TO CORRIDOR LIGHTING CONTROLS.
6. PROVIDE A GREEN DOT (STICKER) ON CEILING GRID UNDERNEATH ALL ROOM CONTROLLERS SERVING CORRIDOR LIGHTING.
7. CORRIDOR LIGHTING CONTROL SHALL HAVE THE FOLLOWING FUNCTIONALITY:
   A. MASTER SWITCHES TO BE LOCATED AT SECURITY KEYPADS SHALL TURN ON ALL CORRIDORS AT ONCE.
   B. BUILDING SHALL OPERATE BY ZONES - DURING OCCUPIED HOURS, OCCUPANCY SENSOR SHALL TURN ON LIGHTING BUT NOT OFF.
   C. DURING UNOCCUPIED HOURS, OPERATES BASED ON SENSOR ONLY.
8. WHERE FEWER SWITCHES ARE REQUIRED THAN EXISTING, PROVIDE DRYWALL TRIM RING CORRESPONDING TO NUMBER OF SWITCHES SHOWN ON THESE PLANS, AND PATCH AND PAINT OPENING. EX: CLASSROOMS
9. WHERE ACCESSIBLE CEILING HEIGHTS ARE 12-FEET AFF OR LESS, ROOM CONTROLLERS AND ASSOCIATED HARDWARE SHALL BE MOUNTED ON 2' X 2' X ¾-INCH BACK BOARD OF NON-NOMBUSTIBLE MATERIALS, ON WALL ABOVE LOCAL CONTROL SWITCH LOCATION, BETWEEN 4 AND 18-INCHES ABOVE THE ACCESSIBLE CEILING AND 2-INCHES CLEAR OF T-GRID FOR ABOVE CEILING ACCESS. THE CONTRACTOR SHALL NOT PAINT THE BACKBOARD, NOR SHALL THE UL LISTING LABELING BE OBSCURED. LABEL CEILING GRID BELOW ALL ROOM CONTROLLERS.
10. WHERE CEILING HEIGHTS ARE ABOVE 12-FEET, ROOM CONTROLLERS SHALL BE MOUNTED IN AN ANCILLARY AREA WITH ACCESSIBLE CEILING OF 12-FEET OR LESS WITH THE HIGH CEILING ROOM CONTROLLER MOUNTED ADJACENT TO THE LOWER CEILING ROOM CONTROLLER SERVING THE ANCILLARY AREA. THE ROOM CONTROLLER FOR THE HIGH CEILING AND ANCILLARY AREA(S) MAY UTILIZE THE SAME ROOM CONTROLLER FOR EACH AREA IF PRACTICAL. IF AN ANCILLARY AREA WITH LOW ACCESSIBLE CEILING AREA IS NOT AVAILABLE, THE ROOM CONTROLLER SHALL BE INSTALLED IN THE SAME MECHANICAL OR ELECTRICAL ROOM AS THE ELECTRICAL PANEL SERVING THE LIGHTING FOR THAT AREA AND CLEARLY LABELED FOR ITS USE AND SPECIFIC ROOM THAT IT CONTROLS. LABEL CEILING GRID BELOW ALL ABOVE CEILING ROOM CONTROLS, SEE BELOW FOR LABELING REQUIREMENTS.
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LIGHTING PLAN KEYED NOTES:

1. LAYOUT OF NEW LINEAR LIGHTING FIXTURES DIFFERS FROM EXISTING LAYOUT. PROVIDE NEW BRANCH CIRCUIT WIRE AND CONDUIT TO LINEAR FIXTURES IN THE CORRIDOR.
2. APPROXIMATE LOCATION OF MASTER CORRIDOR SWITCH ADJACENT TO BUILDING SECURITY KEYPAD. RE: GENERAL NOTE #7 FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL ENSURE FIXTURES INSTALLED IN MECHANICAL ROOMS WITH DUCTWORK SHALL NOT CONFLICT WITH DUCTS WHEREVER POSSIBLE.

LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025

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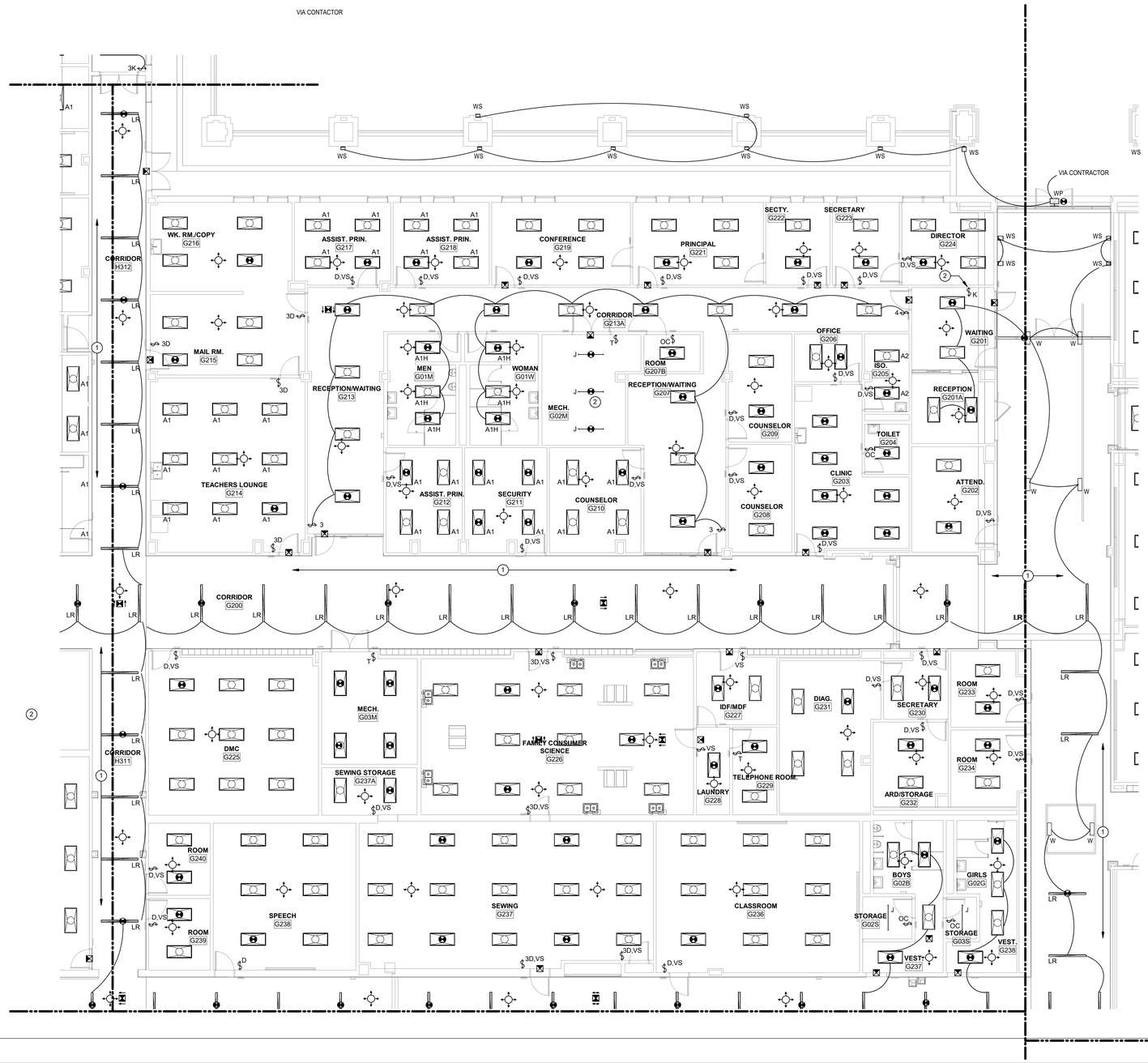

1 1ST LEVEL LIGHTING PLAN - AREA G
SCALE: 1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

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DRAWING HISTORY

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ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL LIGHTING PLAN - AREA G

E-201G

ISSUE FOR PROPOSAL

1ST LEVEL LIGHTING PLAN - AREA H

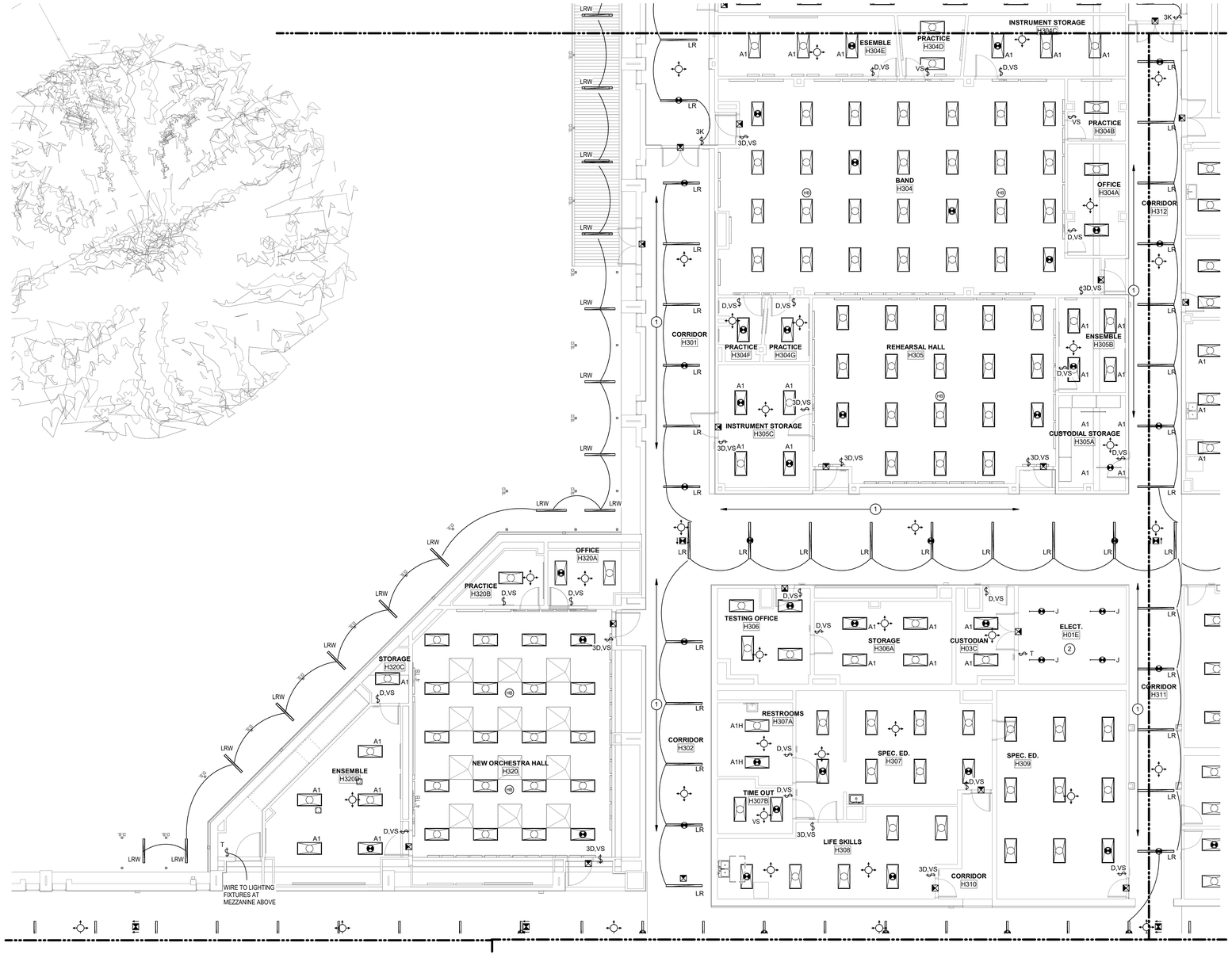
E-201H

FOR BLUEBEAM LABELING/OCR:

0"

1"

LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025



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10. WHERE CEILING HEIGHTS ARE ABOVE 12-FEET, ROOM CONTROLLERS SHALL BE MOUNTED IN AN ANCILLARY AREA WITH ACCESSIBLE CEILING OF 12-FEET OR LESS WITH THE HIGH CEILING ROOM CONTROLLER MOUNTED ADJACENT TO THE LOWER CEILING ROOM CONTROLLER SERVING THE ANCILLARY AREA. THE ROOM CONTROLLER FOR THE HIGH CEILING AND ANCILLARY AREA(S) MAY UTILIZE THE SAME ROOM CONTROLLER FOR EACH AREA IF PRACTICAL. IF AN ANCILLARY AREA WITH LOW ACCESSIBLE CEILING AREA IS NOT AVAILABLE, THE ROOM CONTROLLER SHALL BE INSTALLED IN THE SAME MECHANICAL OR ELECTRICAL ROOM AS THE ELECTRICAL PANEL SERVING THE LIGHTING FOR THAT AREA AND CLEARLY LABELED FOR ITS USE AND SPECIFIC ROOM THAT IT CONTROLS. LABEL CEILING GRID BELOW ALL ABOVE CEILING ROOM CONTROLS. SEE BELOW FOR LABELING REQUIREMENTS.
11. CORRIDORS, GYMS, AND OTHER HIGH-VOLUME SPACES WITHOUT LOW CEILING ANCILLARY AREAS: DLM ROOM CONTROLLERS SHALL BE LOCATED IN THE MECHANICAL/ELECTRICAL ROOM WHERE THE LIGHTING BRANCH CIRCUIT ORIGINATES, PREFERABLY NEXT TO THE NORMAL LIGHTING PANEL SERVING THE SPACE. WALL MOUNT TOP OF ENCLOSURE BETWEEN 36 AND 78-INCHES, STACK MULTIPLE ENCLOSURES TO CONSERVE WALL SPACE. PROVIDE EASILY IDENTIFIABLE LABELED ENCLOSURE FOR WALL MOUNTED DLM ROOM CONTROLLER. LABEL CEILING GRID BELOW ALL ABOVE CEILING ROOM CONTROLS. SEE BELOW FOR LABELING REQUIREMENTS.INCLUDE IN BID 10 ADDITIONAL EMERGENCY LIGHTING FIXTURES AND 10 EXIT SIGNS, LOCATION TO BE DETERMINED DURING CONSTRUCTION.
12. ANY WIRING SERVING THE LIGHTING OR LIGHTING CONTROL SYSTEM SHALL BE IN CONDUIT. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED. REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

LIGHTING PLAN KEYED NOTES:

1. LAYOUT OF NEW LINEAR LIGHTING FIXTURES DIFFERS FROM EXISTING LAYOUT. PROVIDE NEW BRANCH CIRCUIT WIRE AND CONDUIT TO LINEAR FIXTURES IN THE CORRIDOR.
2. CONTRACTOR SHALL ENSURE FIXTURES INSTALLED IN MECHANICAL ROOMS WITH DUCTWORK SHALL NOT CONFLICT WITH DUCTS WHEREVER POSSIBLE.

PROVIDE NEW LIGHT FIXTURES THROUGHOUT CAMPUS AS SHOWN. IN GENERAL, NEW FIXTURES ARE REPLACING EXISTING LIGHTING FIXTURES OF SIMILAR TYPE IN THE SAME LOCATION, WITH THE EXCEPTION OF LINEAR FIXTURES IN CORRIDORS AND LIBRARY, AND FIXTURES IN THE COMPETITION GYM AND CAFETERIA. CONNECT TO EXISTING LIGHTING CIRCUITS. PROVIDE NEW LIGHTING CONTROL DEVICES IN EACH SPACE AS SHOWN, UTILIZE EXISTING SWITCH LOCATIONS UNLESS NOTED OTHERWISE. PROVIDE EXTENSION OF CIRCUIT TO NEW ROOM CONTROLLER LOCATION IN EACH SPACE AS REQUIRED.

PROVIDE NEW 20A EMERGENCY LIGHTING CIRCUITS AND EXIT SIGN CIRCUITS FROM NEW EMERGENCY PANEL **XXXX** TO ALL FIXTURES DESIGNATED AS EMERGENCY ON THIS SHEET. PROVIDE TRANSFER DEVICE AT EACH LIGHTING FIXTURE DESIGNATED AS EMERGENCY SUCH THAT ALL EMERGENCY FIXTURES MAY BE SWITCHED ON AN OFF WITH NORMAL POWER FIXTURES. PROVIDE CONNECTION FROM NEARBY NORMAL POWER FIXTURE TO EACH TRANSFER DEVICE.

1 **1ST LEVEL LIGHTING PLAN - AREA H**
SCALE: 1/8" = 1'-0"

PBK

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11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
CONSULTANT NAME
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LANDSCAPE
CONSULTANT NAME
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STRUCTURAL
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MEP
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ACOUSTIC
CONSULTANT NAME
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CIVIL/LEED
CONSULTANT NAME
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FOOD SERVICE
CONSULTANT NAME
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OTHER
CONSULTANT NAME
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LEAF ENGINEERS

Arnold Middle School
11111 TEL GE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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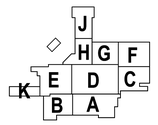
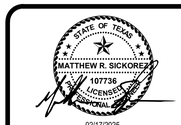


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-16672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL LIGHTING PLAN - AREA H

E-201H

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects\E23_220023_CFISD_Arnold MS.rvt

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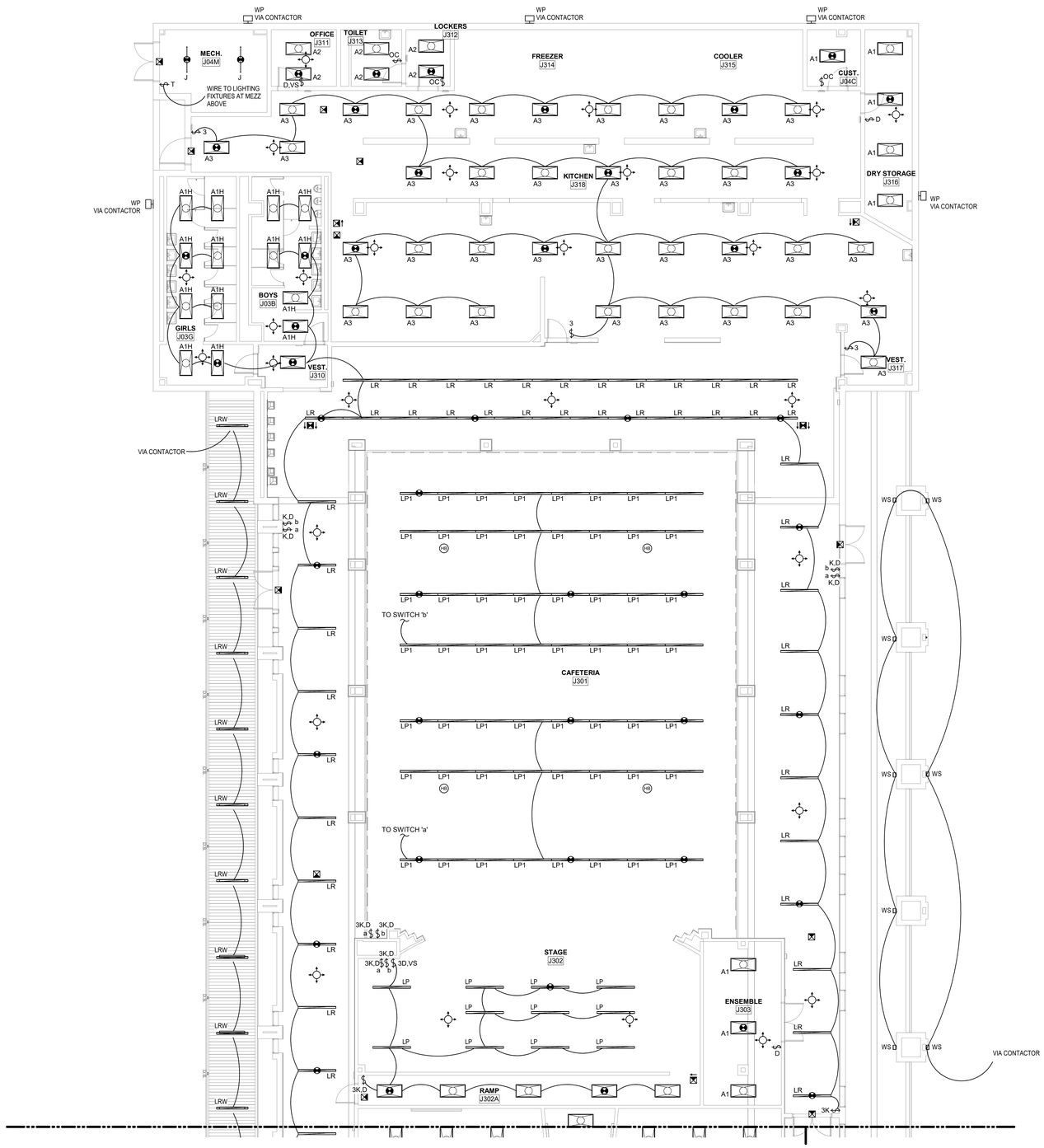
1ST LEVEL LIGHTING PLAN - AREA J
E-201J
FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025



1 **1ST LEVEL LIGHTING PLAN - AREA J**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A", ALL EXIT SIGNS ARE TYPE "X".
3. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY/VACANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO ROOM CONTROLLERS, WIRING, ETC. PROVIDE A COMPLETE SYSTEM OF WATTSTOPPER DLM LIGHTING CONTROLS. RE: DIVISION 26 SPECIFICATIONS AND ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
4. REMOVE ALL SWITCHES FROM CORRIDORS AND REPLACE WITH BLANK COVER PLATES EXCEPT AT SECURITY PANELS. REFER TO PLANS FOR LOCATION(S) OF SWITCHES AT SECURITY PANELS.
5. REMOVE EXISTING SWITCHES FROM GANG RESTROOMS AND REPLACE WITH BLANK COVER PLATE TO BE CONNECTED TO CORRIDOR LIGHTING CONTROLS.
6. PROVIDE A GREEN DOT (STICKER) ON CEILING GRID UNDERNEATH ALL ROOM CONTROLLERS SERVING CORRIDOR LIGHTING.
7. CORRIDOR LIGHTING CONTROL SHALL HAVE THE FOLLOWING FUNCTIONALITY:
   A. MASTER SWITCHES TO BE LOCATED AT SECURITY KEYPADS SHALL TURN ON ALL CORRIDORS AT ONCE.
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8. WHERE FEWER SWITCHES ARE REQUIRED THAN EXISTING, PROVIDE DRYWALL TRIM RING CORRESPONDING TO NUMBER OF SWITCHES SHOWN ON THESE PLANS, AND PATCH AND PAINT OPENING. EX: CLASSROOMS
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CIVIL CONSULTANT NAME T.000.000-0000
LANDSCAPE CONSULTANT NAME T.000.000-0000
STRUCTURAL CONSULTANT NAME T.000.000-0000
MEP CONSULTANT NAME T.000.000-0000
ACOUSTIC CONSULTANT NAME T.000.000-0000
FIRE/LIFE CONSULTANT NAME T.000.000-0000
FOOD SERVICE CONSULTANT NAME T.000.000-0000
OTHER CONSULTANT NAME T.000.000-0000

LEAF ENGINEERS

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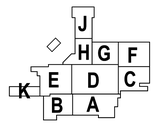
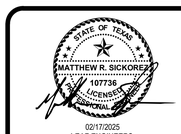


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL LIGHTING PLAN - AREA J

E-201J

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

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Plot Stamp:
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ISSUE FOR PROPOSAL

MEZZANINE LIGHTING PLAN - AREA A

E-202A

FOR BLUEBEAM LABELING/OCR:

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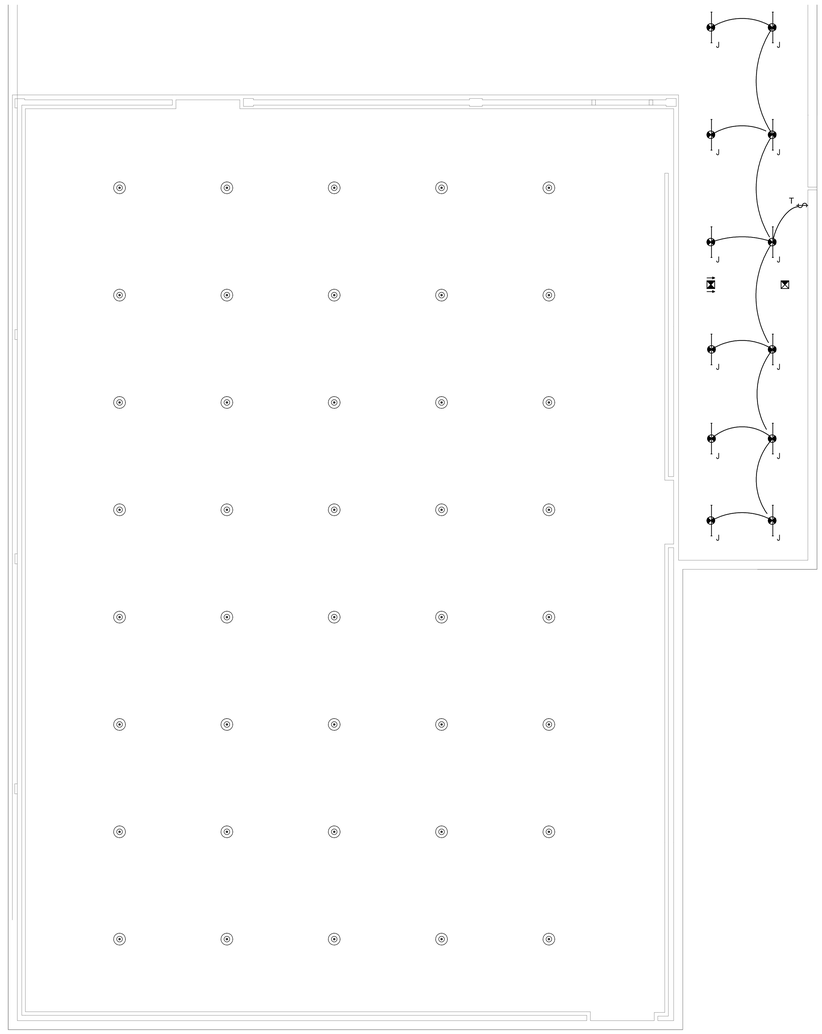

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1 **MEZZANINE LIGHTING PLAN - AREA A MEZZANINE**
SCALE: 1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

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FOOD SERVICE
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OTHER
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LEAF ENGINEERS

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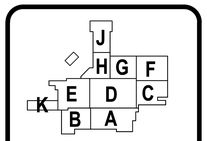
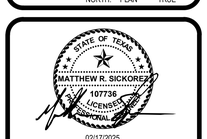


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

MEZZANINE LIGHTING PLAN - AREA A

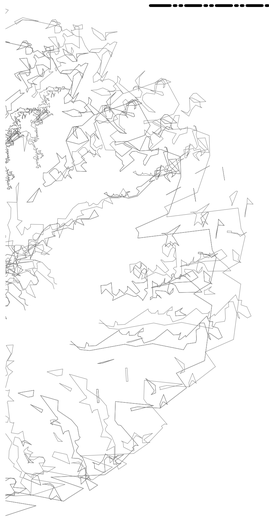
E-202A

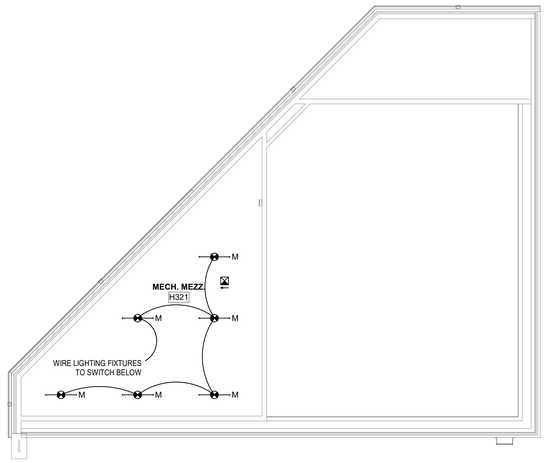
0"
1"

MEZZANINE LIGHTING PLAN - AREA H
E-202H
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025





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10. WHERE CEILING HEIGHTS ARE ABOVE 12-FEET, ROOM CONTROLLERS SHALL BE MOUNTED IN AN ANCILLARY AREA WITH ACCESSIBLE CEILING OF 12-FEET OR LESS WITH THE HIGH CEILING ROOM CONTROLLER MOUNTED ADJACENT TO THE LOWER CEILING ROOM CONTROLLER SERVING THE ANCILLARY AREA. THE ROOM CONTROLLER FOR THE HIGH CEILING AND ANCILLARY AREA(S) MAY UTILIZE THE SAME ROOM CONTROLLER FOR EACH AREA IF PRACTICAL. IF AN ANCILLARY AREA WITH LOW ACCESSIBLE CEILING AREA IS NOT AVAILABLE, THE ROOM CONTROLLER SHALL BE INSTALLED IN THE SAME MECHANICAL OR ELECTRICAL ROOM AS THE ELECTRICAL PANEL SERVING THE LIGHTING FOR THAT AREA AND CLEARLY LABELED FOR ITS USE AND SPECIFIC ROOM THAT IT CONTROLS. LABEL CEILING GRID BELOW ALL ABOVE CEILING ROOM CONTROLS, SEE BELOW FOR LABELING REQUIREMENTS.
11. CORRIDORS, GYMS, AND OTHER HIGH-VOLUME SPACES WITHOUT LOW CEILING ANCILLARY AREAS: DLM ROOM CONTROLLERS SHALL BE LOCATED IN THE MECHANICAL/ELECTRICAL ROOM WHERE THE LIGHTING BRANCH CIRCUIT ORIGINATES, PREFERABLY NEXT TO THE NORMAL LIGHTING PANEL SERVING THE SPACE. WALL MOUNT TOP OF ENCLOSURE BETWEEN 36 AND 78-INCHES, STACK MULTIPLE ENCLOSURES TO CONSERVE WALL SPACE. PROVIDE EASILY IDENTIFIABLE LABELED ENCLOSURE FOR WALL MOUNTED DLM ROOM CONTROLLER. LABEL CEILING GRID BELOW ALL ABOVE CEILING ROOM CONTROLS. SEE BELOW FOR LABELING REQUIREMENTS.INCLUDE IN BID 10 ADDITIONAL EMERGENCY LIGHTING FIXTURES AND 10 EXIT SIGNS, LOCATION TO BE DETERMINED DURING CONSTRUCTION.
12. ANY WIRING SERVING THE LIGHTING OR LIGHTING CONTROL SYSTEM SHALL BE IN CONDUIT. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED. REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

PROVIDE NEW LIGHT FIXTURES THROUGHOUT CAMPUS AS SHOWN. IN GENERAL, NEW FIXTURES ARE REPLACING EXISTING LIGHTING FIXTURES OF SIMILAR TYPE IN THE SAME LOCATION, WITH THE EXCEPTION OF LINEAR FIXTURES IN CORRIDORS AND LIBRARY, AND FIXTURES IN THE COMPETITION GYM AND CAFETERIA. CONNECT TO EXISTING LIGHTING CIRCUITS. PROVIDE NEW LIGHTING CONTROL DEVICES IN EACH SPACE AS SHOWN, UTILIZE EXISTING SWITCH LOCATIONS UNLESS NOTED OTHERWISE. PROVIDE EXTENSION OF CIRCUIT TO NEW ROOM CONTROLLER LOCATION IN EACH SPACE AS REQUIRED.

PROVIDE NEW 20A EMERGENCY LIGHTING CIRCUITS AND EXIT SIGN CIRCUITS FROM NEW EMERGENCY PANEL **XXXX** TO ALL FIXTURES DESIGNATED AS EMERGENCY ON THIS SHEET. PROVIDE TRANSFER DEVICE AT EACH LIGHTING FIXTURE DESIGNATED AS EMERGENCY SUCH THAT ALL EMERGENCY FIXTURES MAY BE SWITCHED ON AN OFF WITH NORMAL POWER FIXTURES. PROVIDE CONNECTION FROM NEARBY NORMAL POWER FIXTURE TO EACH TRANSFER DEVICE.

1 **MEZZANINE LIGHTING PLAN - AREA H**
SCALE: 1/8" = 1'-0"

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FOOD SERVICE
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OTHER
CONSULTANT NAME
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LEAF ENGINEERS

Arnold Middle School
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CYPRESS, TX 77429
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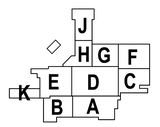

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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MEZZANINE LIGHTING PLAN - AREA H

E-202H

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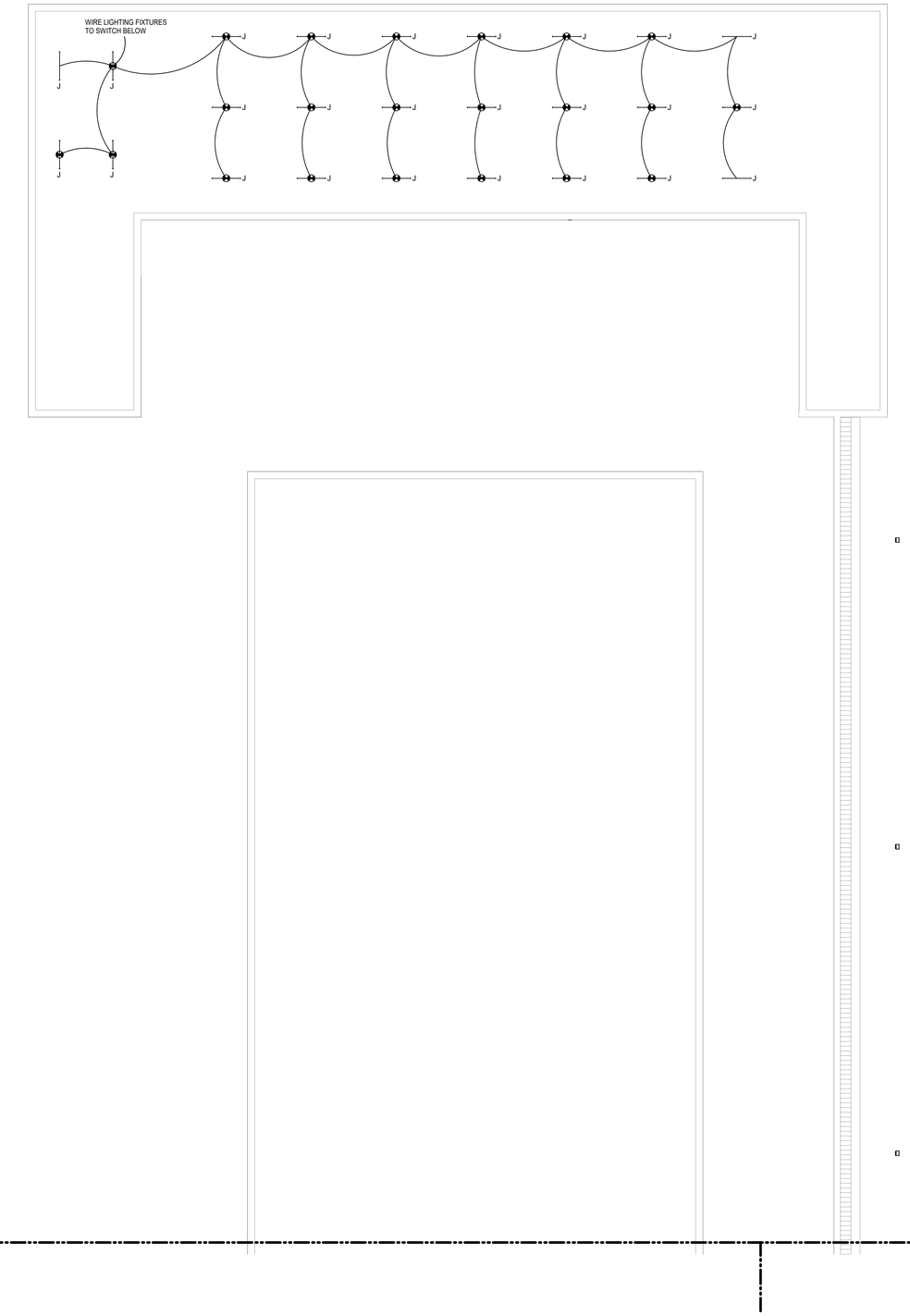
MEZZANINE LIGHTING PLAN - AREA J
E-202J
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

LIGHTING AND LIGHTING CONTROL REPLACEMENT IS INTENDED TO OCCUR DURING SUMMER 2025



1 **MEZZANINE LIGHTING PLAN - AREA J**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A", ALL EXIT SIGNS ARE TYPE "X".
3. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY/VACANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO ROOM CONTROLLERS, WIRING, ETC. PROVIDE A COMPLETE SYSTEM OF WATTSTOPPER DLM LIGHTING CONTROLS. RE: DIVISION 26 SPECIFICATIONS AND ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
4. REMOVE ALL SWITCHES FROM CORRIDORS AND REPLACE WITH BLANK COVER PLATES EXCEPT AT SECURITY PANELS. REFER TO PLANS FOR LOCATION(S) OF SWITCHES AT SECURITY PANELS.
5. REMOVE EXISTING SWITCHES FROM GANG RESTROOMS AND REPLACE WITH BLANK COVER PLATE TO BE CONNECTED TO CORRIDOR LIGHTING CONTROLS.
6. PROVIDE A GREEN DOT (STICKER) ON CEILING GRID UNDERNEATH ALL ROOM CONTROLLERS SERVING CORRIDOR LIGHTING.
7. CORRIDOR LIGHTING CONTROL SHALL HAVE THE FOLLOWING FUNCTIONALITY:
   A. MASTER SWITCHES TO BE LOCATED AT SECURITY KEYPADS SHALL TURN ON ALL CORRIDORS AT ONCE.
   B. BUILDING SHALL OPERATE BY ZONES - DURING OCCUPIED HOURS, OCCUPANCY SENSOR SHALL TURN ON LIGHTING BUT NOT OFF.
   C. DURING UNOCCUPIED HOURS, OPERATES BASED ON SENSOR ONLY.
8. WHERE FEWER SWITCHES ARE REQUIRED THAN EXISTING, PROVIDE DRYWALL TRIM RING CORRESPONDING TO NUMBER OF SWITCHES SHOWN ON THESE PLANS, AND PATCH AND PAINT OPENING. EX: CLASSROOMS
9. WHERE ACCESSIBLE CEILING HEIGHTS ARE 12-FEET AFF OR LESS, ROOM CONTROLLERS AND ASSOCIATED HARDWARE SHALL BE MOUNTED ON 2' X 2' X ¼-INCH BACK BOARD OF NON-NOMBUSTIBLE MATERIALS, ON WALL ABOVE LOCAL CONTROL SWITCH LOCATION, BETWEEN 4 AND 18-INCHES ABOVE THE ACCESSIBLE CEILING AND 2-INCHES CLEAR OF T-GRID FOR ABOVE CEILING ACCESS. THE CONTRACTOR SHALL NOT PAINT THE BACKBOARD, NOR SHALL THE UL LISTING LABELING BE OBSCURED. LABEL CEILING GRID BELOW ALL ROOM CONTROLLERS.
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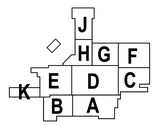

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-10672

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

MEZZANINE LIGHTING PLAN - AREA J

E-202J

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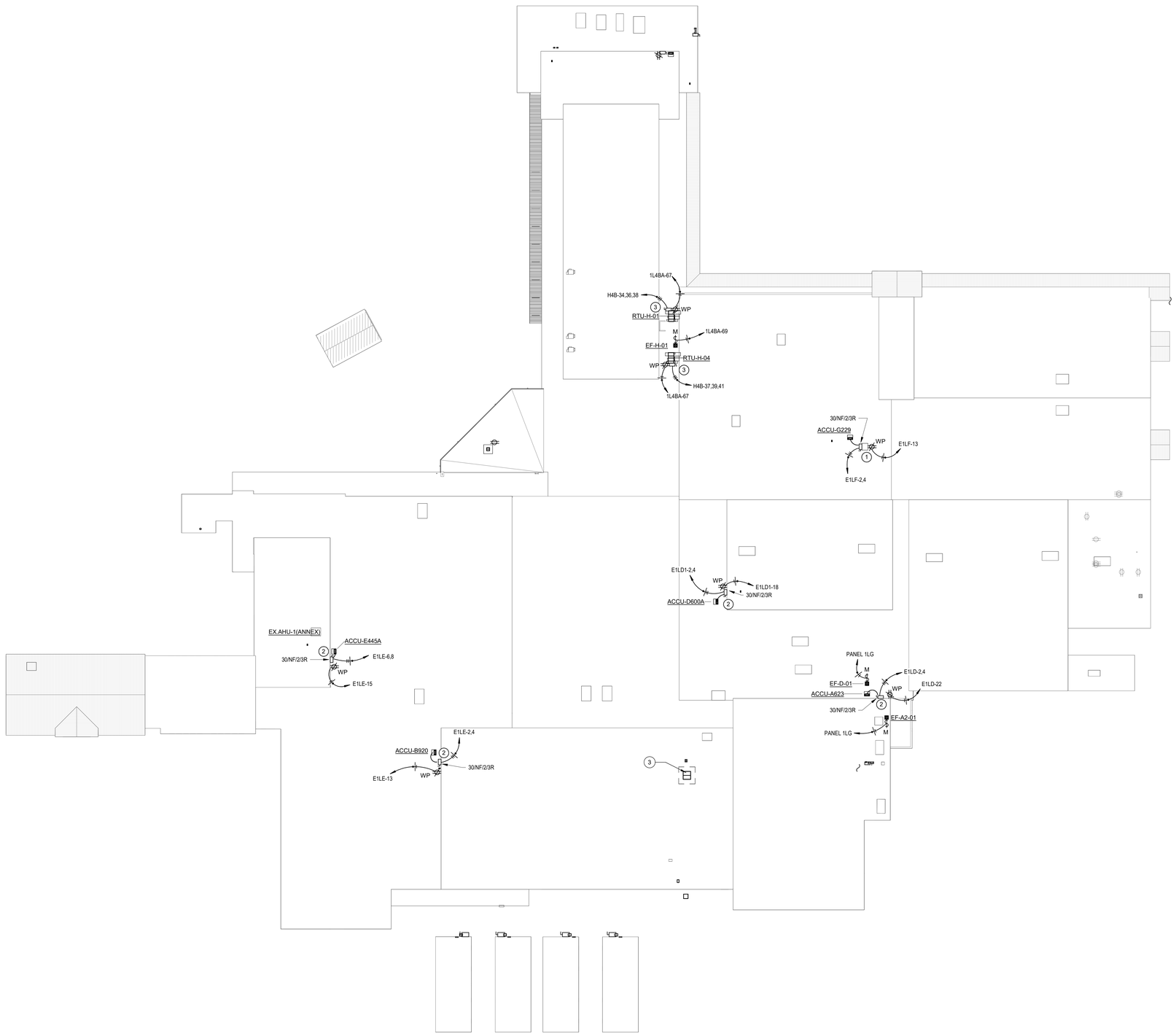
ELECTRICAL ROOF PLAN - COMPOSITE
E-301
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL



POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL UPDATE ALL EXISTING CIRCUIT DIRECTORIES FOR PANELBOARDS MODIFIED AS PART OF THE PROJECT SCOPE.
3. REFER TO ARCHITECTURAL PLANS FOR OVERALL PHASING OF WORK AREAS.
4. THE BUILDING WILL RECEIVE A NEW FIRE ALARM SYSTEM. PROVIDE CONDUIT AND BACK BOXES AS REQUIRED, IN PARTICULAR CONDUIT WILL NEED TO BE PROVIDED IN SPACES WITHOUT CEILINGS (I.E. GYMS) RE: ARCH FOR RCP.
5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. ROOF PEDESTAL SPECIFIED BY PLUMBING DRAWINGS. CONTRACTOR SHALL MOUNT DISCONNECT AND RECEPTACLE ON ONE SIDE OF THE PEDESTAL AND HOSE BIB TO BE MOUNTED ON THE OTHER SIDE. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH PLUMBING DRAWING DETAIL.
2. MOUNT DISCONNECT ON WALL.
3. EQUIPMENT DISCONNECT AND WEATHERPROOF RECEPTACLE ARE TO BE PROVIDED WITH THE UNIT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL NOTE THAT THE WEATHERPROOF RECEPTACLE SHALL NOT BE POWERED FROM THE UNIT POWER.

1 **ELECTRICAL ROOF PLAN - COMPOSITE**
SCALE: 1" = 30'-0"

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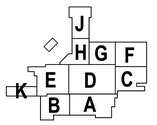

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
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ELECTRICAL ROOF PLAN - COMPOSITE

E-301

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ENLARGED VIEW

E-401

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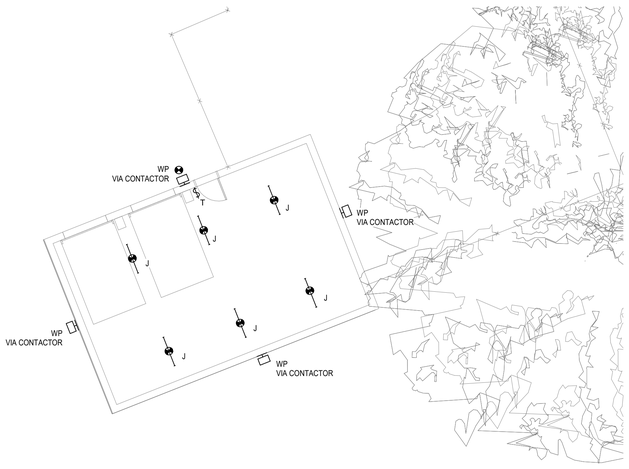
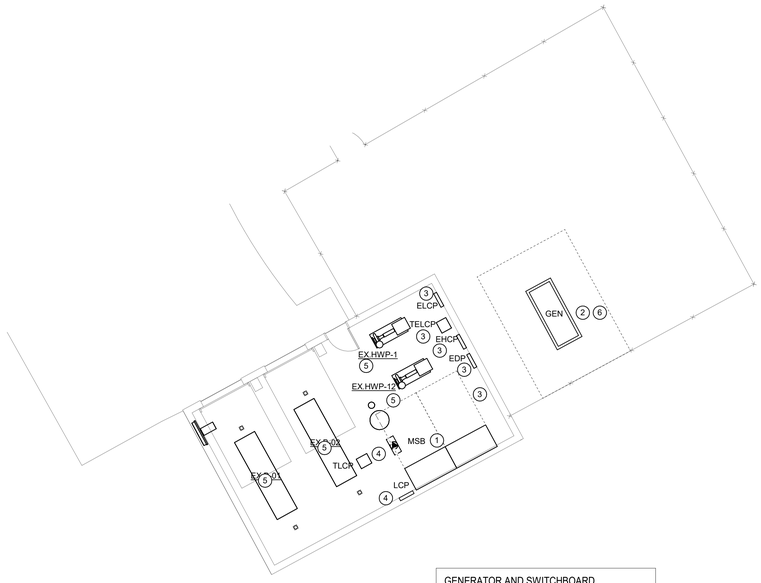


1 ELECTRICAL SITE PLAN - CENTRAL PLANT LIGHTING PLAN - NEW

SCALE: 1/8" = 1'-0"



GENERATOR AND SWITCHBOARD REPLACEMENT SCOPE IS INTENDED FOR SUMMER 2026, INCLUDING NEW EMERGENCY DISTRIBTUION AND EQUIPMENT/DEVICES TO BE FED BY THE GENERATOR. EXISTING EMERGENCY DISTRIBTUION IS TO REMIAN IN PLACE UNTIL THEN.

2 ELECTRICAL SITE PLAN - CENTRAL PLANT - DEMO

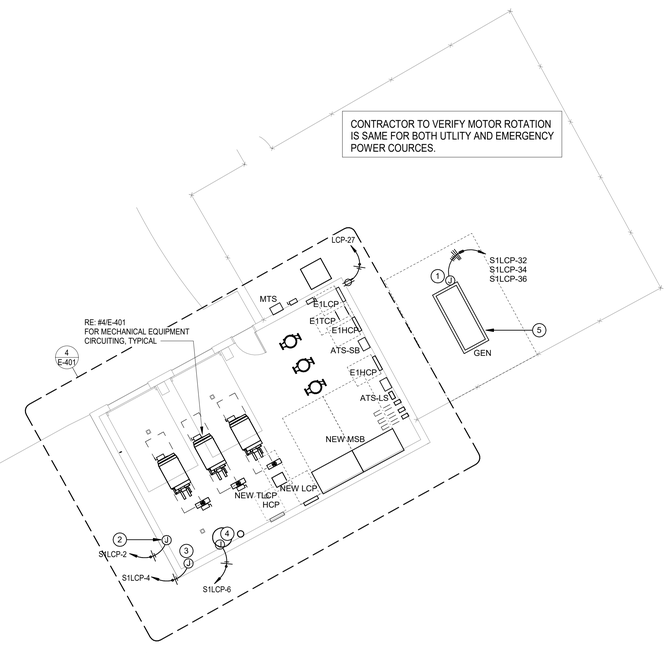
1/8" = 1'-0"

DEMOLITION PLAN GENERAL NOTES:

1. ALL ITEMS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. PRIOR TO DEMOLITION OF ANY ELECTRICAL EQUIPMENT AND /OR CONDUIT, CONTRACTOR SHALL FIELD VERIFY AND DOCUMENT EXISTING BRANCH CIRCUIT INFORMATION INCLUDEING BUT NOT LIMITED TO CIRCUIT BREAKER, CONDUCTORS, CONDUIT, PHASE AND VOLTAGE.
2. DISCONNECT AND REMOVE ALL WIRING, CONDUIT, DISCONNECTS, AND OTHER DEVICES ASSOCIATED WITH MECHANICAL AND PLUMBING EQUIPMENT BEING REMOVED. LABEL SOURCE BREAKER(S) "SPARE" IN PANEL. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF ALL HVAC AND PLUMBING EQUIPMENT TO BE DEMOLISHED.
3. REMOVE ALL WIRING, CONDUIT AND ASSOCIATED DEVICES IN WALLS TO BE REMOVED. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES WHICH REMAIN.
4. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER.
5. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
6. WHEN REMOVING EXISTING ELECTRICAL WORK SUCH AS RECEPTACLES, LIGHT FIXTURES,ETC. WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY.
7. EXISTING ELECTRICAL BOXES TO REMAIN IN AREAS WHERE NEW WALL FINISHES ARE TO BE APPLIED SHALL BE RESET AS NECESSARY TO PROVIDE FLUSH MOUNTING FOR BOXES.
8. CONTRACTOR SHALL FIELD VERIFY EXISITNG BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT.
9. CONTRACTOR SHALL REFER TO ARCHITECT DEMOLITION PLANS AND PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF THE SCOPE OF THE PROJECT PRIOR TO COMMENCEMENT OF WORK.
10. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, ALL STATE AND LOCAL CODES AND AMENDMENTS.
11. WHERE ELECTRICAL EQUIPMENT IS BEING DEMOED AND REPLACED; CONTRACTOR SHALL ENSURE THAT EXISING SERVING FEEDERS AND WIRING ARE EXTENDED AND RECONNECTED TO NEW BREAKERS WITHIN NEW ELECTRICAL EQUIPMENT AS NECESSARY.

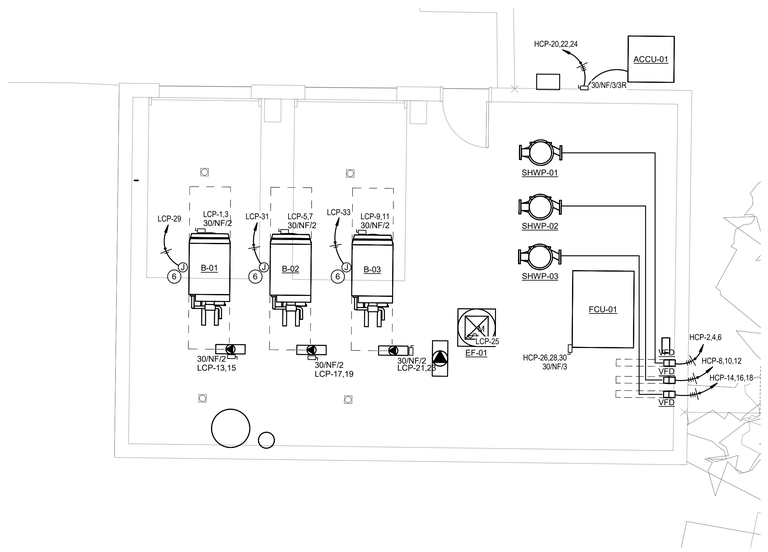
DEMOLITION PLAN KEYED NOTES:

1. CONTRACTOR SHALL DEMO AND REPLACE EXISTING 480V 3PH 4W 3000A MAIN SWITCHBOARD. REFER TO SHEET E-501 FOR ADDITIONAL INFORMATION.
2. DEMO EXISTING GENERATOR SET AND ASSOCIATED ATS IN CENTRAL PLANT. CONTRACTOR SHALL DEMOLISH ALL PANELS, TRANSFORMER AND DISCONNECTS ASSOCIATED WITH THIS EXISTING GENERATOR SYSTEM. CONTRACTOR SHALL ENSURE THAT GENERATOR AND ASSOCIATED ATS SHALL BE RETURNED TO OWNER UPON COMPLETION OF DEMOLITION.
3. CONTRACTOR SHALL DEMO EXISTING EQUPMENT.
4. CONTRACTOR SHALL DEMO AND REPLACE EXISTING EQUIPMENT.
5. CONTRACTOR SHALL DEMO ALL EXISTING ELECTRICAL EQUIPMENT, CONDUIT, WIRE AND BREAKERS ASSOCIATED WITH THIS MECHANICAL EQUIPMEN BACK TO POINT OF ORIGIN.
6. DEMO EXISTING CONCRETE PAD ASSOCIATED WITH DEMOED GENERATOR.



3 ELECTRICAL SITE PLAN - CENTRAL PLANT - NEW

SCALE: 1/8" = 1'-0"



4 CENTRAL PLANT - NEW - MECH. EQUIPMENT

SCALE: 1/4" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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5. ACCESS CONTROL SYSTEMS AT THIS BUILDING ARE TO BE REPLACED. PROVIDE PATHWAY FROM CEILING PLENUM TO ALL DEVICE LOCATIONS. RE: TECHNOLOGY/ SECURITY PLANS FOR THOSE DEVICES THAT ARE TO BE NEW.
6. CONDUIT IN SPACES WITH EXPOSED STRUCTURE SHALL BE PAINTED. SPACES SUCH AS GYMS AND THE NATATORIUM ARE EXPOSED, REFER TO ARCHITECTURAL RCP FOR ADDITIONAL INFORMATION.

POWER PLAN KEYED NOTES:

1. JUNCTION BOX FOR POWER CONNECTION TO JACKET HEATER, BATTERY RECHARGE, AND GENERATOR CONTROLS. REFER TO GENERATOR MANUFACTURER FOR EXACT LOCATION AND TERMINATION REQUIREMENTS.
2. JUNCTION BOX FOR POWER TO FIRE ALARM POWER SUPPLY. COORDINATE EXACT MOUNTING LOCATION WITH FIRE ALARM DRAWINGS PRIOR TO ROUGH-IN.
3. PROVIDE JUNCTION BOX FOR POWER TO BUILDING AUTOMATION SYSTEMS. VERIFY EXACT LOCATION WITH CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. RE-USE EXISTING CONDUIT.
4. EXISTING GENERAL POWER RECEPTACLES IN MECHANICAL/ELECTRICAL/DF ROOM TO BE INTERCEPTED WITH NEW EMERGENCY POWER CIRCUIT. RE-USE EXISTING CONDUIT TO CONNECT EXISTING OUTLETS TO EMERGENCY POWER.
5. PROVIDE GENERATOR WITH NEW CONCRETE HOUSEKEEPING PAD. REFER TO DETAILS/SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. JUNCTION BOX FOR CONNECTION TO BOILER MISCELLANEOUS POWER REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

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LEAF ENGINEERS

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
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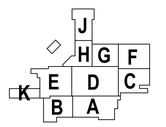

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

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ENLARGED VIEW

E-401

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ELECTRICAL ONE-LINE DIAGRAM
E-501
FOR BLUEBEAM LABELING/OCR:

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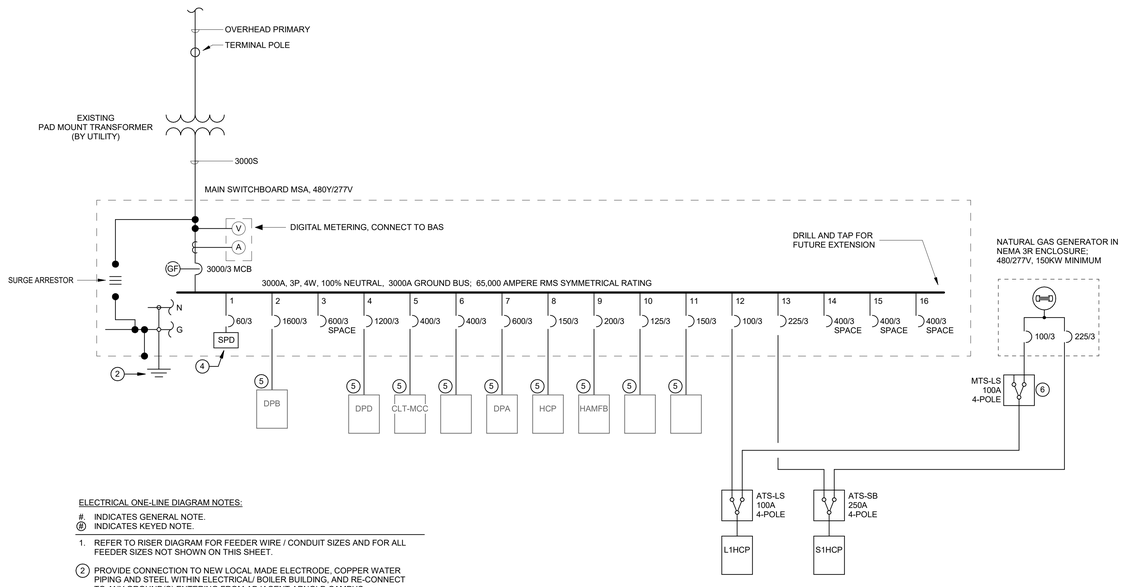

ELECTRICAL ONE-LINE DIAGRAM NOTES:

#. INDICATES GENERAL NOTE.
Ⓚ INDICATES KEYED NOTE.

1. REFER TO RISER DIAGRAM FOR FEEDER WIRE / CONDUIT SIZES AND FOR ALL FEEDER SIZES NOT SHOWN ON THIS SHEET.

(2) PROVIDE CONNECTION TO NEW LOCAL MADE ELECTRODE, COPPER WATER PIPING AND STEEL WITHIN ELECTRICAL/ BOILER BUILDING, AND RE-CONNECT TO ANY GROUND(S) ENTERING FROM ADJACENT ARNOLD CAMPUS.

3. COORINATE OUTAGE FOR SWITCHBOARD REPLACEMENT WITH UTILITY AND CYFAIR ISD AT LEAST TWO MONTHS IN ADVANCE.

(4) NEC 285 SURGE PROTECTIVE DEVICE. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

(5) REPLACE NEW SWITCHBOARD CONNECTIONS AS REQUIRED. CONTRACTOR SHALL ENSURE BREAKERS ARE POSTIONED IN SIMILAR LOCATIONS AS EXSITING SWTICHBOARD BREAKER LAYOUTS TO REMOVE NEED FOR SPLICING.

(6) DOCKING STATION / MANUAL TRANSFER SWITCH. RE: DRAWING SHEET E-502.

7. PRIOR TO COMMENCMENT OF WORK, CONTRACTOR SHALL DOCUMENT ALL EXISITING CONDITIONS OF THE EXISITNG MAIN SWITCH BOARD PRIOR TO DEMOLITION.

8. RETURN ANY AND ALL DEMOLISHED CONDUCTORS TO CY-FAIR ISD.

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LEAF ENGINEERS

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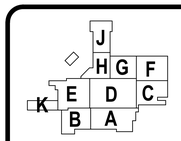
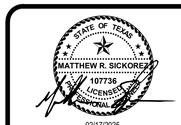


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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ELECTRICAL
ONE-LINE DIAGRAM

E-501

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ELECTRICAL RISER DIAGRAM

E-502

FOR BLUEBEAM LABELING/OCR:

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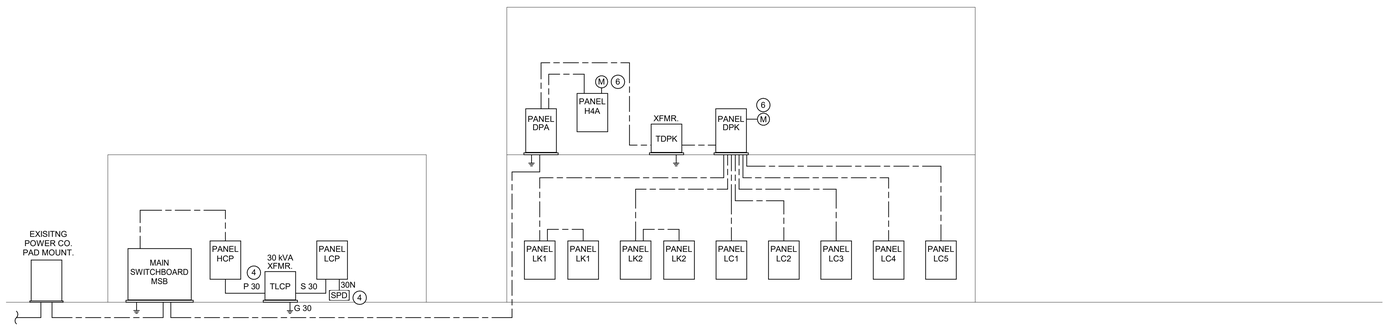
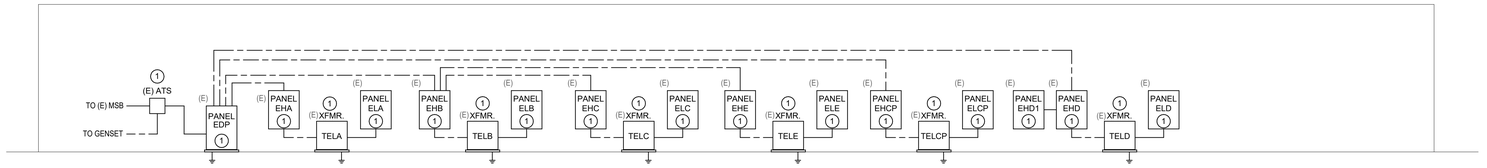


NEW PARTIAL RISER DIAGRAM

#. INDICATES GENERAL NOTE.
Ⓟ INDICATES KEYED NOTE.

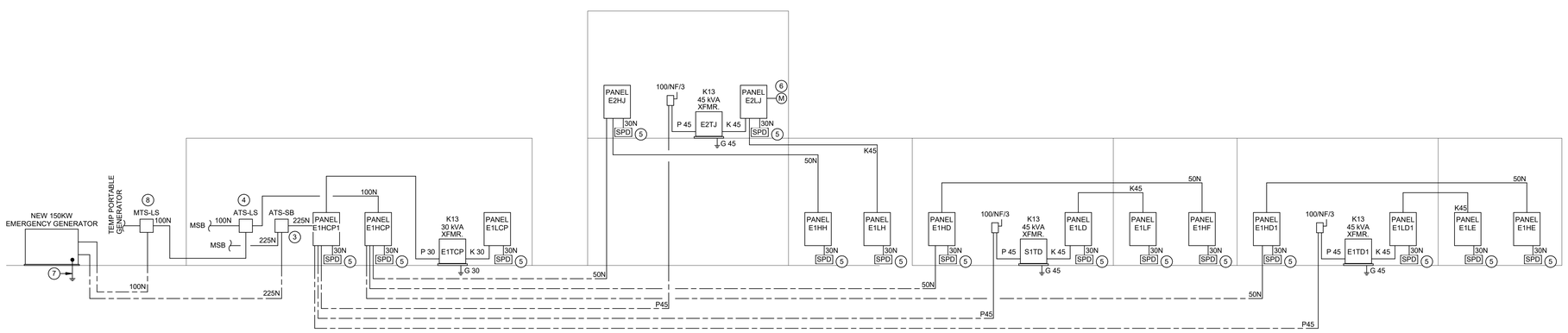
1. UNLESS NOTED OTHERWISE, ALL TRANSFORMERS TO BE 480: 208/120 VOLT 3P, 4W.
2. PROVIDE THRU-FEED LUGS FOR ALL MULTI-SECTION PANELBOARDS.
3. SURGE PROTECTIVE DEVICE, RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. REPLACE EXISTING TRANSFORMER 'TLCP'. CONTRACTOR SHALL UTILIZE EXISTING SERVING FEEDERS AND BREAKER SERVING TRANSFORMER.
5. REPLACE EXISTING PANEL 'LCP' PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS OF THE EXISTING MAIN SWITCH BOARD PRIOR TO DEMOLITION.
6. PROVIDE E-MOD / D-MON CLASS 3200 SMART METER. CONTRACTOR SHALL ENSURE SMART METER IS BACNET COMPATIBLE FOR COMMUNICATION WITH BAS.



EXISTING EMERGENCY RISER DIAGRAM

#. INDICATES GENERAL NOTE.
Ⓟ INDICATES KEYED NOTE.

1. EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO BE DEMOLISHED. REFER TO ENLARGED CENTRAL PLANT PLAN E-401 FOR ADDITIONAL DEMOLITION SCOPE. PROVIDE NEW EMERGENCY ELECTRICAL DISTRIBUTION EQUIPMENT SHOWN IN NEW RISER DIAGRAM.



NEW EMERGENCY RISER DIAGRAM

#. INDICATES GENERAL NOTE.
Ⓟ INDICATES KEYED NOTE.

1. UNLESS NOTED OTHERWISE, ALL TRANSFORMERS TO BE 480: 208/120 VOLT 3P, 4W.
2. PROVIDE THRU-FEED LUGS FOR ALL MULTI-SECTION PANELBOARDS.
3. NEW 100A 4-POLE ATS LOCATEED IN CENTRAL PLANT REFER TO SHEET E-401 FOR EXACT LOCATION. ATS SHALL BE MONITORED BY INTRUSION DETECTION SYSTEM.
4. NEW 200A 4-POLE ATS LOCATEED IN CENTRAL PLANT REFER TO SHEET E-401 FOR EXACT LOCATION. ATS SHALL BE MONITORED BY INTRUSION DETECTION SYSTEM.
5. SURGE PROTECTIVE DEVICE, RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. PROVIDE E-MOD / D-MON CLASS 3200 SMART METER. CONTRACTOR SHALL ENSURE SMART METER IS BACNET / MSTP COMPATIBLE FOR COMMUNICATION WITH BMCS.
7. 1#6 G, 3/4"C.
8. NEW 200A, 4-POLE, TRYSTAR, NEMA 3R GENERATOR DOCKING STATION TO COMPLY WITH NEC 700.3. LOCATED OUTSIDE OF CENTRAL PLANT REFER TO SHEET E-401 FOR EXACT LOCATION.
9. INTRUSION DETECTION TO MONITOR EACH ATS.

TRANSFORMER FEEDER SCHEDULE

TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS
P15	3#10, 1#10G	3/4"	1
S15	4#6, 1#6G	1"	1
K15	3#4, 1#6N, 1#6G	1 1/4"	1
G15	1#8G	1/2"	1
P30	3#6, 1#10G	3/4"	1
S30	4#1, 1#6G	1 1/2"	1
K30	3 #1/0, 1#2/0N, 1#6G	2"	1
G30	1#6G	1/2"	1
P37	2#1, 1#6G	1 1/4"	1
S37	3#3/0, 1#4G	3"	1
G37	1#4G	3/4"	1
P45	3#4, 1#6G	1"	1
S45	4#1/0, 1#6G	1 1/2"	1
K45	3#2/0, 1#250, 1#4G	2"	1
G45	1#6G	1/2"	1
P50	2#1, 1#6G	1 1/4"	1
S50	3#3/0, 1#3G	2"	1
G50	1#3G	3/4"	1
P75	3#1, 1#8G	1 1/2"	1
S75	4#4/0, 1#2G	2 1/2"	1
K75	3#4/0, 2#3/0N., 1#2G	2 1/2"	1
G75	1#1/0G	1/2"	1
P112	3#2/0, #6G	2"	1
S112	4#3/0, 1#1/0G	2"	2
K112	3#4/0, 1#350N, 1#1/0G	2 1/2"	2
G112	1#1/0G	3/4"	1
P150	3#250, 1#4G	2 1/2"	1
S150	4#350, 1#2/0G	3"	2
K150	3#350, 2#3/0N, 1#2/0G	3"	2
G150	1#2/0G	3/4"	1

FEEDER SCHEDULE

TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS
30N	4#10, 1#10G	1"	1
50N	4#6, 1#10G	1"	1
60N	4#6, 1#10G	1"	1
100	3#1, 1#8G	1 1/2"	1
100N	4#1, 1#8G	1 1/2"	1
125	3#1, 1#8G	1 1/2"	1
125N	4#1, 1#8G	2"	1
150	3#1/0, 1#6G	1 1/2"	1
150N	4#1/0, 1#6G	2"	1
175	3#2/0, 1#6G	2"	1
175N	4#2/0, 1#6G	2"	1
200	3#3/0, 1#6G	2"	1
200N	4#3/0, 1#6G	2"	1
225	3#4/0, 1#4G	2"	1
225N	4#4/0, 1#4G	2 1/2"	1
250	3#250, 1#4G	2 1/2"	1
250N	4#250, 1#4G	3"	1
300	3#350, 1#4G	3"	1
300N	4#350, 1#4G	3"	1
400	3#3/0, 1#3G	2"	2
400N	4#3/0, 1#3G	2"	2
400S	4#500	3 1/2"	1
600	3#350, 1#1G	3"	2
600N	4#350, 1#1G	3"	2
600S	4#350	3"	2
800	3#500, 1#1/0G	3"	2
800N	4#500, 1#1/0G	3 1/2"	2
800S	4#500	3 1/2"	2
1000	3#400, 1#2/0G	3"	3
1000N	4#400, 1#2/0G	3"	3
1000S	4#400	3"	3
1200	3#350, 1#3/0G	3"	4
1200N	4#350, 1#3/0G	3"	4
1200S	4#350	3"	4
1600S	4#400	3"	5
2000S	4#400	3"	6
2500S	4#500	3 1/2"	7
3000S	4#500	3 1/2"	8
4000S	4#500	3 1/2"	11

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LEAF ENGINEERS

Arnold Middle School

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KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

ELECTRICAL RISER DIAGRAM

E-502

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E-601

ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE

FOR BLUEBEAM LABELING OCR:

0"

1"

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Lighting Fixture Schedule

Date: January 8, 2025

Fixture Type	Manufacturer	Catalog Number	Lamp Type	Mounting	Voltage	Dimming Type	Description
A	DAYBRITE	2FPZ48L840-4-DS-UNV-DIM	37W 4000K 4800 LM	RECESSED	UNV	0-10V	RECESSED LED 2X4 FLAT PANEL (4800LM)
A1	DAYBRITE	2FPZ42B840-4-DS-UNV-DIM	40W 4000K 4200 LM	RECESSED	UNV	0-10V	RECESSED LED 2X4 FLAT PANEL (4200LM)
A1H	DAYBRITE	2FPZ42B840-4-DS-UNV-DIM / FMA24	40W 4000K 4200 LM	RECESSED	UNV	0-10V	RECESSED LED 2X4 FLAT PANEL (4200LM) WITH GYP CEILING KIT
A2	DAYBRITE	2FPZ30L840-4-DS-UNV-DIM	23W 4000K 3000 LM	RECESSED	UNV	0-10V	RECESSED LED 2X4 FLAT PANEL (3000LM)
A2H	DAYBRITE	2FPZ30L840-4-DS-UNV-DIM / FMA24	23W 4000K 3000 LM	RECESSED	UNV	0-10V	RECESSED LED 2X4 FLAT PANEL (3000LM) WITH GYP CEILING KIT
A3	DAYBRITE	2FPZ60L840-4-DS-UNV-DIM	47W 4000K 6000 LM	RECESSED	UNV	0-10V	RECESSED LED 2X4 FLAT PANEL (6000LM)
A4	DAYBRITE	1FPZ30L840-4-DS-UNV-DIM / FMA14FP	25W 4000K 3000 LM	RECESSED	UNV	0-10V	RECESSED LED 1X4 FLAT PANEL WITH GYP CEILING KIT
D	LIGHTOLIER	6RN / C6L15940WZ10U / C6RDLCC	13W 4000K 1500 LM	RECESSED	UNV	0-10V	6" RECESSED ROUND APERTURE LED DOWNLIGHT, LISTED FOR WET LOCATIONS
DS	LIGHTOLIER	6RN / C6L10840WZ10U / C6RSLWH	9W 4000K 1000 LM	RECESSED	UNV	0-10V	6" RECESSED ROUND APERTURE LED DOWNLIGHT, NON CONDUCTIVE TRIM, LISTED FOR WET LOCATIONS
G	VARIOUS	HOLOPHANE/PHG PHUZION WITH GLASS RELECTOR OR APPROVED EQUAL	87W 4000K 11,594 LM	SUSPENDED	UNV	0-10V	22" ROUND HIGHBAY WITH CLEAR ACRYLIC REFLECTOR (NOTE 1)
J	DAYBRITE	FSS4-55L-840-UNV-DIM / FSSWG4	45W 4000K 5500 LM	SURFACE	UNV	0-10V	4' LED STRIP FIXTURE, SURFACE MOUNT ON STRUCTURE IN ROOMS WITHOUT CEILINGS, PROVIDE WIREGUARD
J1	DAYBRITE	FSS8-80L-840-UNV-DIM	60W 4000K 7922 LM	SURFACE / CHAIN	UNV	0-10V	8' LED STRIP FIXTURE, CHAIN HUNG IN ROOMS WITHOUT CEILINGS
LP	PINNACLE	EX4DI-BW-BW-840-840-XX-U-PL2-1-FINISH	8W/FT 4000K 1000LM/FT	SUSPENDED	UNV	0-10V	4" DIRECT / INDIRECT LINEAR WITH BATWING DISTRIBUTION (NOTE 1)
LP1	PINNACLE	EX4DI-A-N-840-XX-U-OL2-1-XX-FINISH	4.4W/FT 4000K 500LM/FT	SUSPENDED	UNV	0-10V	SUSPENDED 4" SATINE FLAT LENS LINEAR (NOTE 1)
LR	PINNACLE	EV4D-A-840-XX-U-OL2-1-X-FINISH	4.3W/FT 4000K 500LM/FT	RECESSED	UNV	0-10V	RECESSED 4" SATINE FLAT LENS LINEAR
LRW	AXIS	EX4R-500-8040-SO-4-FINISH-UNV-DP-1-DF	4W/FT 4000K 500LM/FT	RECESSED	UNV	0-10V	4" RECESSED LINEAR W/ FLANGE, LISTED FOR WET LOCATIONS
M	DAYBRITE	FLP450L840-UNV-DIM	45W 4000K 5000 LM	SURFACE / CHAIN	UNV	0-10V	4' LED STRIP FIXTURE WITH NO LENS, CHAIN HUNG IN MECHANICAL ROOMS
N	KENALL	CSEDI-24-45LD-40K8-DIM1-DV-5F-5H-SYM-NAT	46W 4000K 6347 LM	RECESSED	UNV	0-10V	NATATORIUM RATED 2X4
P	BETA CALCO	PLPD1P04-LFA050-CTA40-V1-DA01-SS1-E0-AP00	49W 4000K 6153 LM	SUSPENDED	UNV	0-10V	48" DIAMETER FULLY ILLUMINATED RING WITH REMOTE DRIVER
W	SPI	EIW12398-L44W-UNV-40K-DF_80-DF_DIM1-SSB-WA--X	44W 4000K 4932 LM	WALL	UNV	0-10V	ECHO BLADE MICRO INDIRECT ASYMMETRIC LIGHTING
WS	SPI	AEW8074-L22W-UNV-4000K-DF_80-DF_VERT-DF_LUM-OF_INST1-FINISH	22W 4000K 1501 LM	WALL	UNV	0-10V	DECORATIVE EXTERIOR WALL SCONCE. WET LOCATION RATED
WP	GARDCO	GBM-A09-840-T3M-UNV-X-FINISH	39W 4000K 5990 LUMEN	WALL	UNV	0-10V	FULL-CUTOFF WALL PACK WITH TYPE 3 OPTIC SYSTEM, LISTED FOR WET LOCATIONS
X	EMERGI-LITE	AAP SERIES	2.5W INTEGRAL LED	SURFACE	UNV	N/A	PRECEPTOR SERIES. DIE-CAST ALUMINUM LED EXIT SIGN

NOTE 1: ALL POWER CORDS TO BE ZIP TIED TO AIRCRAFT CABLE TO CREATE A CLEAN, SRAIGHT LOOK. ZIP TIES TO MATCH POWER CORD CABLE

GENERAL ELECTRICAL REMODEL NOTES

1. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT, ELECTRICAL OUTLETS SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED:

WALL SWITCHES	*
WALL CONVENIENCE RECEPTACLES	15" AFF TO BOTTOM OF BOX
WALL DATA/VOICE OUTLETS	15" AFF TO BOTTOM OF BOX
WALL OUTLETS FOR WALL MTD. TELEPHONE	*
WALL CLOCK OUTLETS	7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED)*
MANUAL FIRE ALARM PULL STATIONS	*
FIRE ALARM SPEAKER/HORN	1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED*
INTERIOR BELLS,BUZZERS, HORNS	1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED*
SPECIAL PURPOSE WALL OUTLETS	15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT)
PUSH BUTTONS	
ADA VISUAL ALARM	80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER. ENTIRE LENS TO BE WITHIN 80" TO 96" AFF*
	* TOP OF BOX SHALL BE 42" AFF MAX. FOR WHEELCHAIR FRONTAL APPROACH AND 48" AFF MAX. FOR SIDE APPROACH. VERIFY EXACT HEIGHT WITH ARCHITECT
	* 7'-0" AFF TO BOTTOM OF DEVICE IF DEVICE PROTRUDES MORE THAN 4" FROM WALL (PER ADA)

AFF = ABOVE FINISHED FLOOR
AFG = ABOVE FINISHED GRADE

2. UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS, OR AS DIRECTED BY ARCHITECT.
3. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST. OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE.
4. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT.
5. CIRCUITING
   A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL, NOT METHODS OF INSTALLATION. REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS, INCLUDING WHETHER OR NOT BX IS ALLOWED AND WHETHER "THROUGH-FIXTURE" OR "OCTOPUS (EMT WITH FLEXIBLE WHIPS)" TYPE LIGHTING BRANCH CIRCUITING IS REQUIRED.
   B. WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANEL SCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED.
   C. BRANCH CIRCUITS ON THE DRAWINGS ARE GENERALLY NOT SHOWN GROUPED IN SINGLE RACEWAYS. HOWEVER, GROUPING IS ALLOWED UNDER CERTAIN CONDITIONS. REFER TO DIVISION 26 SPECIFICATIONS UNDER SECTION ENTITLED "ELECTRICAL WIRING" FOR REQUIREMENTS.
   D. THE DRAWINGS GENERALLY INDICATE QUANTITY OF CONDUCTORS ON BRANCH CIRCUIT HOME RUNS ONLY. ELSEWHERE WITHIN CIRCUITS, PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMPLISH CIRCUITING AND SWITCHING REQUIREMENTS SHOWN.
6. WHEN REMOVING EXISTING ELECTRICAL WORK WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY.
7. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER.
8. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO, ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
9. WHERE DOORS ARE ADDED, OR PORTIONS OF WALLS REMOVED, CONTRACTOR SHALL REMOVE OR RELOCATE ALL ELECTRICAL WORK NECESSARY FOR THE REMODELING MODIFICATION, WHETHER OR NOT THIS WORK IS NOTED ON PLANS.
10. WHERE EXISTING JUNCTION BOXES ARE COVERED OR REMOVED, CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO COMPLY WITH NEC 314-19.
11. EXISTING ELECTRICAL BOXES TO REMAIN IN AREAS WHERE NEW WALL FINISHES ARE TO BE APPLIED SHALL BE RESET AS NECESSARY TO PROVIDE FLUSH MOUNTING FOR BOXES.
12. CONTRACTOR SHALL FIELD VERIFY EXISTING BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT.
13. WHEN EXISTING ELECTRICAL WORK IS REMOVED, ALL EXPOSED CONDUIT, WIRING, CONTROL AND JUNCTION BOXES ALONG WALLS, FLOOR, AND CEILING SHALL BE REMOVED. BRANCH CIRCUIT WIRES SHALL BE REMOVED BACK TO CIRCUIT BREAKER(S). BLANK COVER PLATES SHALL BE PROVIDED FOR RECESSED BOXES. WHERE THIS WORK IS DONE, THE WALLS, FLOOR, AND CEILING SHALL BE PATCHES AS NECESSARY UNDER WORK COVERED IN OTHER SECTIONS.
14. EXISTING RECESSED INCANDESCENT AND HID LUMINAIRES DESIGNATED FOR TEMPORARY REMOVAL AND RE-USE SHALL BE STORED. ALL SUCH LUMINAIRES NOT THERMALLY PROTECTED PER NEC 410-118 AND 410-130(F) ARE NOT SUITABLE FOR RE-USE AND SHALL BE GIVEN TO THE OWNER. PROVIDE NEW REPLACEMENT LUMINAIRES WITH UL THERMAL PROTECTION, IDENTICAL APERTURE, EQUIVALENT PHOTOMETRICS AND NEW LAMPS.
15. CONTRACTOR TO REFER TO ARCHITECTURAL DEMOLITION PLANS AND PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF SCOPE OF PROJECT PRIOR TO COMMENCEMENT OF WORK.
16. LUMINAIRE SUPPORT IN SUSPENDED CEILINGS:
   A. PROVIDE MEANS OF SUPPORT FOR LUMINAIRES PER NEC 410-16. T BAR CLIPS SHALL BE INSTALLED ON THE LUMINAIRE AND SHALL BE FIELD SECURED TO THE INVERTED CEILINGS TEES SO THAT THE LUMINAIRE IS SECURELY FASTENED TO THE CEILING SYSTEM FRAMING MEMBERS.
   B. CEILING TILES SHALL NOT BEAR THE WEIGHT OF LUMINAIRES. SURFACE MOUNT LUMINAIRES, RECESSED DOWNLIGHTS, LIGHT TRACK, EXIT SIGNS, ETC. SHALL BE SUPPORTED BY PROPER FRAMES OR OTHER ATTACHMENT TO MAIN CEILING SYSTEM GRID OR BUILDING STRUCTURE ABOVE CEILING.
   C. LUMINAIRES SHALL BE CENTERED IN CEILING TILE.
   D. LUMINAIRE SHALL HAVE FLANGE OR TRIM RING FOR CLOSURE OF CEILING CUTOUT OR OPENING.
   E. FIRE-RATED CEILING ASSEMBLY: FOR LUMINAIRES TO BE FLUSH-MOUNTED INTO A FIRE-RATED CEILING OR SURFACE MOUNTED TO A FIRE-RATED CEILING, INSTALL WITH INDEPENDENT, SECURE SUPPORT, RACEWAY, CABLE ASSEMBLIES BOXES AND FITTINGS LOCATED ABOVE A FIRE-RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLY SHALL NOT BE SECURED TO, OR SUPPORTED BY, THE CEILING ASSEMBLY INCLUDING CEILING SUPPORT WIRES. PROVIDE AN INDEPENDENT MEANS OF SECURE SUPPORT. INDEPENDENT SUPPORT WIRES SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFECTIVE MEANS FROM THOSE THAT ARE PART OF THE FIRE-RATED DESIGN.
17. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING UNDERGROUND PIPING, WIRING, OR OTHER FACILITIES PRIOR TO TRENCHING, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY INSTALLATION OF NEW WORK.
18. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, AND STATE AND LOCAL CODES AND AMENDMENTS.

LIGHTING FIXTURE NOTES

KEY TO NOTE PREFIXES: "G" NOTES ARE "GENERAL" LIGHTING NOTES THAT APPLY TO THE ENTIRE PROJECT. "S" NOTES ARE "SCHEDULE" NOTES THAT APPLY TO SPECIFIC LUMINAIRES.

G.1 REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR THE EXACT LOCATION OF ALL LUMINAIRES. ARCHITECTURAL PLANS SHALL GOVERN FOR LOCATION AND LAYOUT. IF ARCHITECTURAL AND ELECTRICAL DRAWINGS CONFLICT IN EXACT COUNT OR FIXTURE TYPE, PROVIDE THE GREATER QUANTITY OR COST TYPE UNLESS OTHERWISE INSTRUCTED.

G.2. REFER TO DIVISION 26 ELECTRICAL SPECIFICATIONS FOR ADDITIONAL LUMINAIRE AND ELECTRICAL REQUIREMENTS (LENS, AIR HANDLING CHARACTERISTICS, T-BAR CLIPS, BALLAST, LAMPS, TIME FRAME FOR SUBMITTAL OF SUBSTITUTE LIGHT FIXTURES FOR PRIOR APPROVAL, ETC.).

G.3. FOR EACH SCHEDULED LUMINAIRE, PROVIDE ALL REQUIRED APPURTENANCES FOR INSTALLATION IN APPLICABLE STRUCTURE OR SPECIFIED ARCHITECTURAL EILING. ALL LUMINAIRES SHALL HAVE THE APPROPRIATE NEMA TYPE FRAME THAT IS COMPATIBLE WITH THE CEILING SYSTEM SPECIFIED BY THE ARCHITECT. ELECTRICAL DRAWINGS DO NOT INDICATE CEILING TYPES, CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS TO DETERMINE CEILING TYPE (GRID, FLANGE, SPLINE, SCREW SLOT, ETC.) AND PROVIDE APPROPRIATE FRAME.

G.4. EXIT SIGNS AND OTHER LUMINAIRES SHALL NOT BE SUPPORTED BY CEILING TILE. PROVIDE MOUNTING FRAME OR HANGERS TO SECURELY FASTEN IN PLACE ALL LUMINAIRES MOUNTED IN CEILING TILE. FRAMING MEMBERS OF A SUSPENDED CEILING SYSTEM MAY BE USED WHERE DESIGNED FOR THE PURPOSE AND INSTALLED PER NEC 410-16(c).

G.5. WHERE A SURFACE-MOUNTED LUMINAIRE CONTAINING A BALLAST IS TO BE INSTALLED ON COMBUSTIBLE LOW-DENSITY CELLULOSE FIBERBOARD, IT SHALL BE LISTED FOR THIS CONDITION OR SHALL BE SPACED NOT LESS THAN 1 1/2 INCHES FROM THE SURFACE OF THE FIBERBOARD (NEC 410-76(b)).

G.6. REQUEST FOR SUBSTITUTION SHALL FOLLOW SPECIFIED PROCEDURES AND SHALL INCLUDE A WORKING SAMPLE SUITABLE FOR TABLE TOP EXAMINATION.

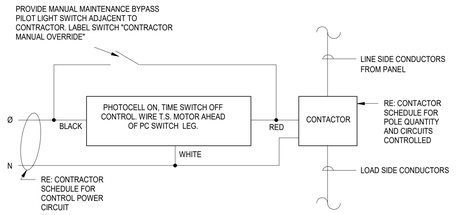
S1. UNLESS OTHERWISE NOTED, MOUNT EXIT SIGN DIRECTLY ABOVE EGRESS DOOR (MAXIMUM 24" ABOVE DOOR), PROVIDE WALL MOUNT EXIT SIGNS IN HIGH CEILING AREAS, PROVIDE WINDOW MULLION MOUNTING WITH CONCEALED WIRING WHERE REQUIRED. COORDINATE EXACT ELEVATION WITH ARCHITECT PRIOR TO ROUGH-IN.

CONTACTOR SCHEDULE

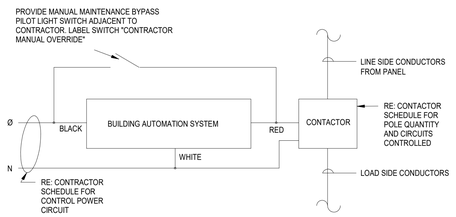
DESIG-NATION	CIRCUITS SERVED	CONTACTOR CHARACTERISTICS					REMARKS
		CONTACT AMPS	N.O. POLES	COIL VOLTS	CONTROL	SUPPLY CKT.	
CFS-1	LPB2-17	20	2	120	(2)	LPB2-17	ASCO 918 REMOTE CONTROL SWITCH (1)

(1) PROVIDE ASCO ACCESSORY 47 SOLID STATE TWO-WIRE CONTROL INTERFACE MODULE.

(2) PHOTOCELL ON/TIME CLOCK OFF.



1 CONTACTOR CONTROL DIAGRAM WITH PHOTOCEL CONTROL
NOT TO SCALE



2 CONTACTOR CONTROL DIAGRAM WITH BAS CONTROL
NOT TO SCALE

ELECTRICAL SYMBOL LEGEND

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. DASHED ELEECTRICAL EQUIPMENT GENERALLY INDICATES EXISTING EQUIPMENT.
3. LONG-SHORT-SHORT-LONG DASHING GENERALLY INDICATES MATCH LINE OR DEFINES AREA FOR SPECIAL NOTE.

CIRCUIT RELATED:

- LIGHTING OR POWER CIRCUIT(S). ARROW INDICATES HOME RUN, LONGER TICK(S) INDICATE NEUTRAL WIRE(S), SHORTER STRAIGHT TICK(S) INDICATE PHASE WIRE(S), SLANTED SHORTER TICK(S) INDICATE SWITCH LEG(S), DOT(S) INDICATE GROUNDING CONDUCTOR(S), DASHED WIRING (LONG-SHORT-LONG DASHES) INDICATES WIRING BELOW SLAB OR GRADE, DASHED WIRING (SERIES OF SHORT DASHES) INDICATES EXISTING WIRING, SLASH THROUGH ARROW INDICATES PARTIAL CIRCUIT, "D" ON HOMERUN ARROW INDICATES DEDICATED CIRCUIT; PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR FOR ENTIRE LENGTH OF CIRCUIT FROM PANEL TO OUTLET; COUNT EACH NEUTRAL AS CURRENT-CARRYING AND GROUP A MAXIMUM OF SIX THHN/THWN CONDUCTORS IN A SINGLE RACEWAY; GROUNDING CONDUCTOR IS NOT COUNTED
- JUNCTION BOX
- GROUNDING FIXTURE

LIGHTING:

- LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT. CROSS HATCHING INDICATES FIXTURE ON EMERGENCY SYSTEM; FOR SOLID CIRCLE WITHIN FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- STRIP TYPE LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE ATTACHED TO FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- DESIGNATES FIXTURE ON EMERGENCY POWER. RE: LIGHTING PLAN NOTES AND FIXTURE SCHEDULE NOTES FOR ADDITIONAL INFORMATION
- WALL OR BRACKET MOUNTED FIXTURE OR DEVICE
- EXIT LIGHT FIXTURE. LETTER INDICATES TYPE, NUMBER INDICATES CIRCUIT, NUMBER AND LOCATION OF SHADED TRIANGLE SECTIONS INDICATE NUMBER OF EXIT SIGN FACES AND DIRECTION OF EACH FACE. PROVIDE CHEVRON DIRECTIONAL INDICATORS AS SHOWN ON DRAWINGS.

CONTROL:

- $ SWITCH. SMALL LETTER INDICATES FIXTURES CONTROLLED, "P" INDICATES PILOT LIGHT, "WP" INDICATES WEATHERPROOF, "K" INDICATES KEY POERATED, "MO" INDICATES SPDT MOMENTARY CONTACT, "2" INDICATES DPDT, "3" INDICATES 3-WAY, "4" INDICATES 4-WAY, "M" INDICATES MANUAL MOTOR STARTER, CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER
- ^{D} WALL BOX DIMMER SWITCH. "MARK" INDICATES WATTAGE IF OTHER THAN 600, "3D" INDICATES 3-WAY DIMMER
- $$ MULTI-LEVEL SWITCH. CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER
- ^{T} DIGITAL TIME SWITCH
- PC PHOTOELECTRIC CONTROL
- EPO EMERGENCY POWER OFF (EPO) PUSHBUTTON
- PUSH BUTTON
- ^{VC} WALL MOUNT OCCUPANCY SENSOR, "VS" INDICATES VACANCY SENSOR
- DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR, "VS" INDICATES VACANCY SENSOR
- RR CEILING MOUNTED RESTROOM OCCUPANCY SENSOR
- CR CEILING MOUNTED CORRIDOR OCCUPANCY SENSOR
- HB CEILING MOUNTED HIGH CEILING OCCUPANCY SENSOR

POWER OUTLETS:

- 20A-125V DUPLEX RECEPTACLE
- 20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "WP" INDICATES WEATHER PROOF DEVICE
- 20A-125V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP. REFER TO ARCHITECT FOR EXACT HEIGHT ABOVE COUNTER
- $_{C}$ 20A-125V CONTROLLED DUPLEX RECEPTACLE
- $_{IG}$ 20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE
- $_{TR}$ 20A-125V DUPLEX TAMPER RESISTANT RECEPTACLE WITH (2) USB CHARGING PORTS
- 20A-125V FOURPLEX RECEPTACLE. SAME SYMBOLOGY AS DUPLEX RECEPTACLE
- SPECIAL PURPOSE SINGLE POWER RECEPTACLE. RATED AS INDICATED (IF NO RATING INDICATED, RECEPTACLE RATING SHALL MATCH BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND SHALL MEET REQUIREMENTS OF EQUIPMENT BEING CONNECTED), "C" INDICATES CLOCK OUTLET
- 20A-125V FLUSH FLOOR DUPLEX RECEPTACLE. 20A WHEN INDICATED OR IF BRANCH CIRCUIT SERVES ONLY SINGLE DUPLEX. PROVIDE CARPED FLANGE WHERE APPLICABLE
- LC1-X CIRCUIT DESIGNATION NEXT TO RECEPTACLE DEVICES INDICATES BRANCH CIRCUIT NUMBER. RE: PANEL SCHEDULES FOR INFORMATION.

TELEPHONE/DATA:

- FLUSH FLOOR TELEPHONE OUTLET WITH CARPET FLANGE WHERE APPLICABLE
- WALL COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS
- FLUSH FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE
- SURFACE FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE

EQUIPMENT:

- +42" A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE
- MOTOR
- DISCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES AS INDICATED, "NF" INDICATES NON-FUSIBLE. NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED. PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED ON BUSWAY. ALL DISCONNECT SWITCHES SHALL BE 30/NF/3 UNLESS OTHERWISE NOTED
- SINGLE CIRCUIT BREAKER IN INDIVIDUAL ENCLOSURE
- MAGNETIC MOTOR CONTROLLER. NUMBER INDICATES NEMA SIZE. STARTER NEMA SIZE SHALL BE "NEMA 1" UNLESS OTHERWISE NOTED
- COMBINATION DISCONNECT SWITCH / MOTOR CONTROLLER
- CONTACTOR
- PANELBOARD
- SWITCHBOARD / DP
- T TRANSFORMER
- GROUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN NEC ARTICLE 250
- BELL. "WP" INDICATED OUTDOOR RATED

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CONSULTANT NAME T 000-000-0000

LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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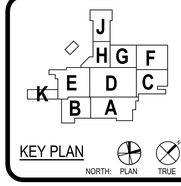
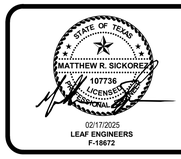


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE

E-601

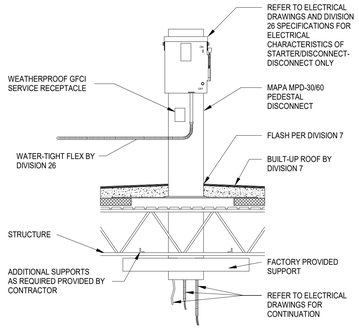
ELECTRICAL DETAILS

E-602

FOR BLUEBEAM LABELING/OCR:

0"

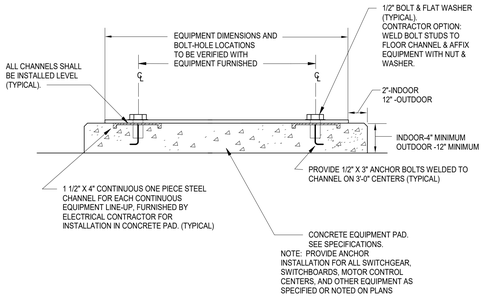
1"



NOTES:

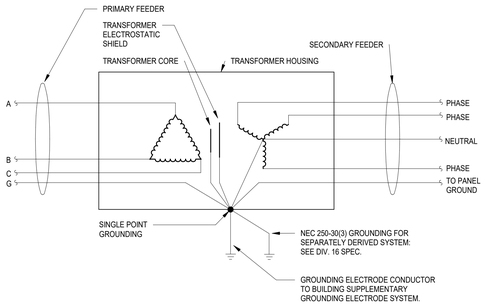
1. WATER-TIGHT FLEX CONDUIT SHALL NOT RESTRICT FAN FROM ROTATING ON HINGED SUB-BASE FOR SERVICE TO DAMPERS AND DUCT CONNECTION. REFER TO DIVISION 26.

4 PEDESTAL MOUNT DISCONNECT
NOT TO SCALE

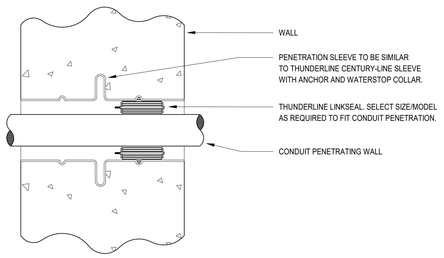


NOTE: PROVIDE ANCHOR INSTALLATION FOR ALL SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS, AND OTHER EQUIPMENT AS SPECIFIED OR NOTED ON PLANS

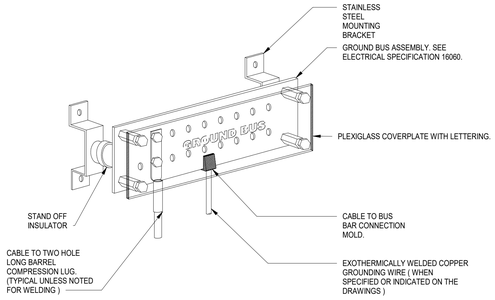
3 EQUIPMENT ANCHOR DETAIL
NOT TO SCALE



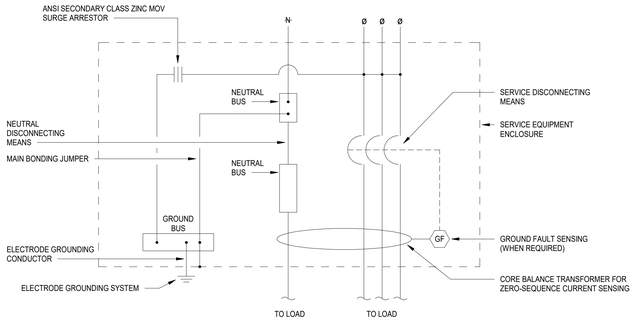
2 DELTA-WYE TRANSFORMER SCHEMATIC
NOT TO SCALE



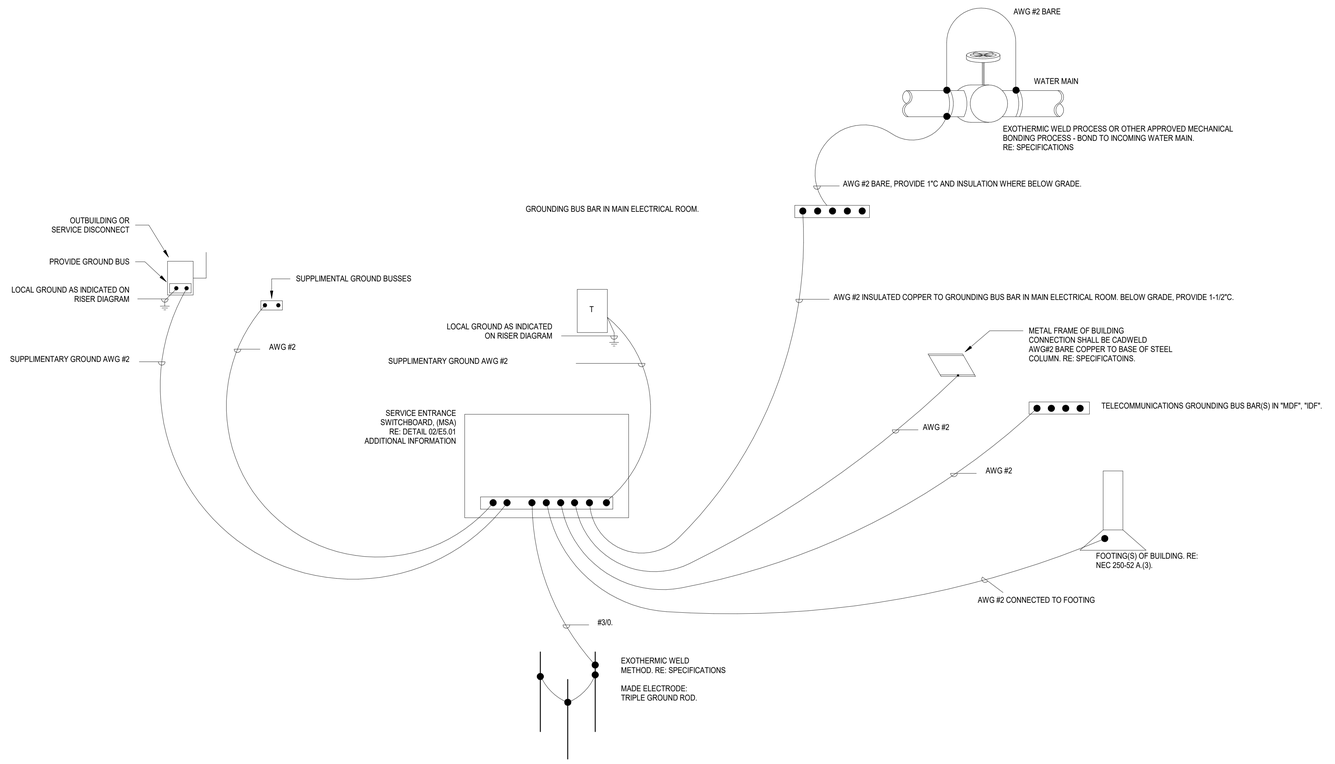
1 CONDUIT PENETRATION DETAIL - EXTERIOR WALL
NOT TO SCALE



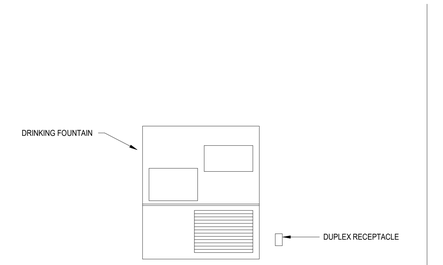
7 GROUND BUS DETAIL
NOT TO SCALE



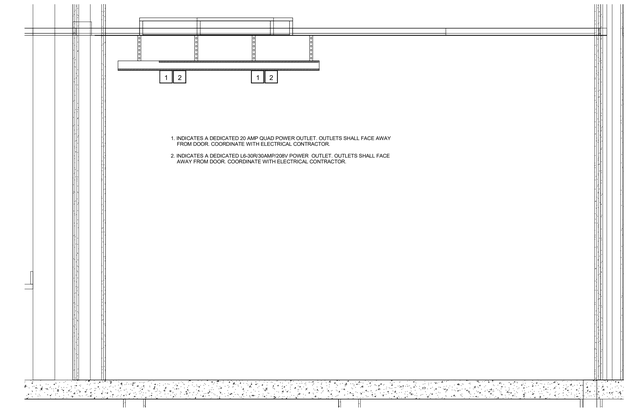
6 ELECTRIC SERVICE GROUNDING DETAIL
NOT TO SCALE



5 ELECTRICAL GROUNDING REQUIREMENTS
NOT TO SCALE



9 DRINKING FOUNTIAN RECEPTACLE LOCAITION
NOT TO SCALE



1. INDICATES A DEDICATED 20 AMP QUAD POWER OUTLET. OUTLETS SHALL FACE AWAY FROM DOOR. COORDINATE WITH ELECTRICAL CONTRACTOR.
2. INDICATES A DEDICATED L6-30R/3OAMP/208V POWER OUTLET. OUTLETS SHALL FACE AWAY FROM DOOR. COORDINATE WITH ELECTRICAL CONTRACTOR.

8 RECEPTACLE ABOVE LADDER TRAY IN IDF ROOM
NOT TO SCALE

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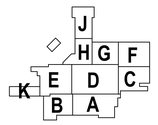
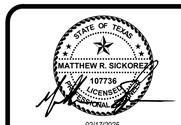


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

ELECTRICAL DETAILS

E-602

TYPICAL LIGHTING DETAILS

E-603

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

0"

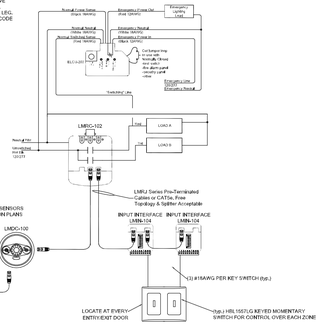
1"

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. SWITCHING SHALL BE IN AUTO ON 100% OPERATION. OCCUPANCY SENSORS WILL TURN ALL LOADS ON/OFF BASED ON OCCUPANCY.
2. OCCUPANCY SENSOR SHALL BE SET TO TIME OUT WITHIN 20 MINUTES OF NO MOTION DETECTED.

NOTES:

1. FINAL QUANTITIES OF SENSORS AND SWITCHES SHALL BE DETERMINED BY THE ACTUAL SPACE AND ENERGY CODE REQUIREMENTS. SENSOR AND SWITCH QUANTITIES INDICATED ON THIS DETAIL ARE TYPICAL AND FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
2. PROVIDE (1) WATTSTOPPER ELCU-200 PER EMERGENCY POWERED SWITCH LEG.
3. THE USE OF DAYLIGHT SENSORS SHALL BE AVOIDED OR MINIMIZED WHEN CODE EXCEPTIONS CAN BE MET.



WALL DEVICES TO BE GRAY WITH NONMETALLIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

TYPICAL LOCKER ROOM

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. SWITCHING SHALL BE IN MANUAL ON OPERATION.OCCUPANCY SENSORS WILL TURN ALL LOADS OFF BASED ON OCCUPANCY.
2. LIGHTING SHALL TURN ON AT INITIAL SETPOINT OF 80% OUTPUT WITH A MINIMUM OF 30 FOOTCANDLES.
3. VACANCY SENSOR SHALL BE SET TO TIME OUT WITHIN 20 MINUTES OF NO MOTION DETECTED.

NOTES:

1. FINAL QUANTITIES OF SENSORS AND SWITCHES SHALL BE DETERMINED BY THE ACTUAL SPACE AND ENERGY CODE REQUIREMENTS. SENSOR AND SWITCH QUANTITIES INDICATED ON THIS DETAIL ARE TYPICAL AND FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
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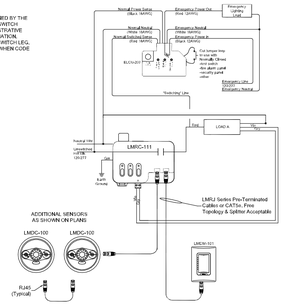

WALL DEVICES TO BE GRAY WITH NONMETALLIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

TYPICAL CLASSROOM

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. SWITCHING SHALL BE IN MANUAL ON OPERATION.OCCUPANCY SENSORS WILL TURN ALL LOADS OFF BASED ON OCCUPANCY.
2. LIGHTING SHALL TURN ON AT INITIAL SETPOINT OF 80% OUTPUT WITH A MINIMUM OF 30 FOOTCANDLES.
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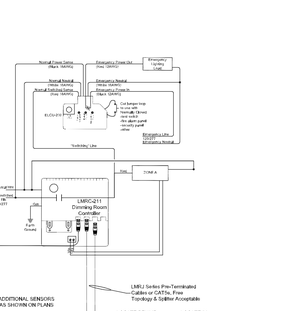

WALL DEVICES TO BE GRAY WITH NONMETALLIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

TYPICAL SINGLE ZONE DIMMING

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. SWITCHING SHALL BE IN MANUAL ON OPERATION.OCCUPANCY SENSORS WILL TURN ALL LOADS OFF BASED ON OCCUPANCY.
2. LIGHTING SHALL TURN ON AT INITIAL SETPOINT OF 80% OUTPUT WITH A MINIMUM OF 30 FOOTCANDLES.
3. VACANCY SENSOR SHALL BE SET TO TIME OUT WITHIN 20 MINUTES OF NO MOTION DETECTED.

NOTES:

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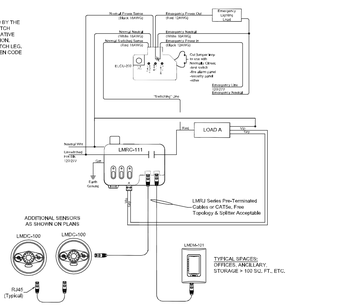

WALL DEVICES TO BE GRAY WITH NONMETALLIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

TYPICAL SINGLE ZONE

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. SWITCHING SHALL BE IN AUTO ON 100% OPERATION. OCCUPANCY SENSORS WILL TURN ALL LOADS ON/OFF BASED ON OCCUPANCY.
2. OCCUPANCY SENSOR SHALL BE SET TO TIME OUT WITHIN 20 MINUTES OF NO MOTION DETECTED.

NOTES:

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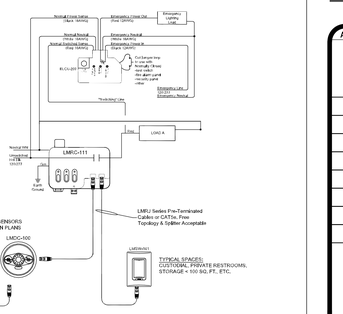

WALL DEVICES TO BE GRAY WITH NONMETALLIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

TYPICAL SINGLE ZONE

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. CONTACT CLOSURE FROM BMCS. USING A DIRECT LOW VOLTAGE CONNECTION TO LMIN. TRIGGERS BMCS OCCUPIED OR BMCS UNOCCUPIED STATE.
2. BMCS OCCUPIED STATE. OCCUPANCY SENSORS ACT AS ON/ONLY SENSORS UNTIL BMCS UNOCCUPIED STATE IN WHICH THE LIGHTS SHALL TURN OFF. INITIAL SET-POINT OF 80% OUTPUT WITH A MINIMUM OF 30 FOOTCANDLES. LIGHTS MAY BE ADJUSTED UP OR DOWN WITH SWITCHES.
3. BMCS UNOCCUPIED STATE. OCCUPANCY SENSORS ACT AS AUTO ON 50%/AUTO OFF. OCCUPANCY SENSOR SHALL BE SET TO TIME OUT WITHIN 20-MINUTES OF NO MOTION DETECTED.

* SEE LIBRARY DETAIL #2A FOR ADDITION SEQUENCE INFORMATION.

NOTES:

1. FINAL QUANTITIES OF SENSORS AND SWITCHES SHALL BE DETERMINED BY THE ACTUAL SPACE AND ENERGY CODE REQUIREMENTS. SENSOR AND SWITCH QUANTITIES INDICATED ON THE DETAIL ARE TYPICAL AND FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
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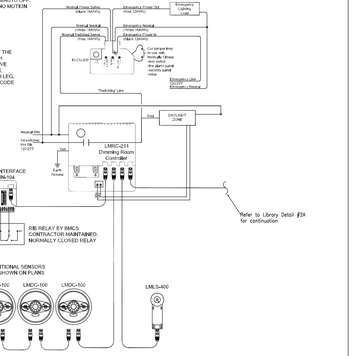
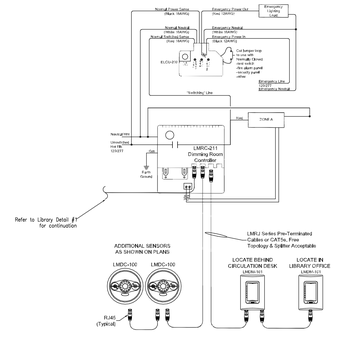


WALL DEVICES TO BE GRAY WITH NONMAGNETIC STAINLESS STEEL FACE PLATES

Watttstopper Digital Lighting Management

LIBRARY DETAIL #1



WALL DEVICES TO BE GRAY WITH NONMAGNETIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

LIBRARY DETAIL #2A

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. SWITCHING SHALL BE IN AUTOMATIC ON 50% OPERATION. OCCUPANCY SENSORS WILL TURN ALL LOADS ON/OFF UP TO 50% OUTPUT BASED ON OCCUPANCY.
2. OCCUPANCY SENSORS ACT AS AUTO ON 50%/AUTO OFF. OCCUPANCY SENSOR SHALL BE SET TO TIME OUT WITHIN 20-MINUTES OF NO MOTION DETECTED.

* SEE GYM DETAIL #2A OR 2B FOR ADDITION SEQUENCE INFORMATION.

NOTES:

1. FINAL QUANTITIES OF SENSORS AND SWITCHES SHALL BE DETERMINED BY THE ACTUAL SPACE AND ENERGY CODE REQUIREMENTS. SENSOR AND SWITCH QUANTITIES INDICATED ON THIS DETAIL ARE TYPICAL AND FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
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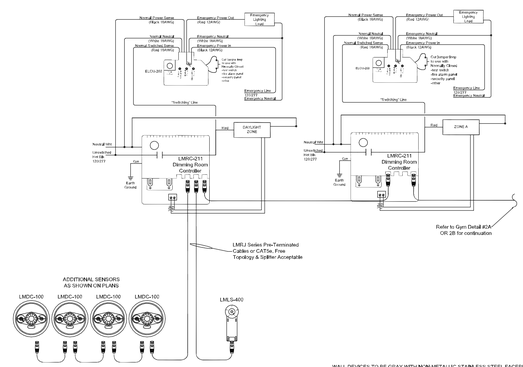

WALL DEVICES TO BE GRAY WITH NONMETALLIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

GYM DETAIL #1

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. SWITCHING SHALL BE IN AUTO ON 100% OPERATION. OCCUPANCY SENSORS WILL TURN ALL LOADS ON/OFF BASED ON OCCUPANCY.
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NOTES:

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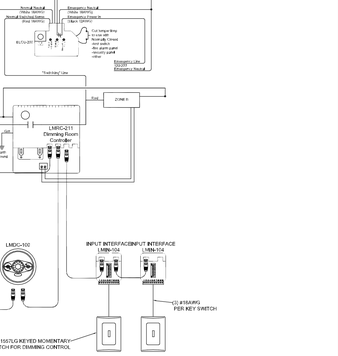
2. PROVIDE (1) WATTSTOPPER ELCU-200 PER EMERGENCY POWERED SWITCH LEG.
3. THE USE OF DAYLIGHT SENSORS SHALL BE AVOIDED OR MINIMIZED WHEN CODE EXCEPTIONS CAN BE MET.
4. LARGE RESTROOMS WITHOUT DOORS SHALL BE CONTROLLED VIA ADJACENT CORRIDOR LIGHTING CONTROLS.



WALL DEVICES TO BE GRAY WITH NONMETALLIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

GYM DETAIL #2B - MIDDLE AND HIGH SCHOOLS

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. CONTACT CLOSURE FROM BMCS. USING A DIRECT LOW VOLTAGE CONNECTION TO LMIN. TRIGGERS BMCS OCCUPIED OR BMCS UNOCCUPIED STATE.
2. LOCAL SWITCH SHALL TURN LIGHTS ON AND WILL REMAIN ON UNLESS TURNED OFF BY SWITCH OR UNTIL BMCS UNOCCUPIED STATE IN WHICH THE LIGHTS SHALL TURN OFF.
3. BMCS UNOCCUPIED STATE. OCCUPANCY SENSORS ACT AS AUTO ON/AUTO OFF. OCCUPANCY SENSOR SHALL BE SET TO TIME OUT WITHIN 20-MINUTES OF NO MOTION DETECTED.

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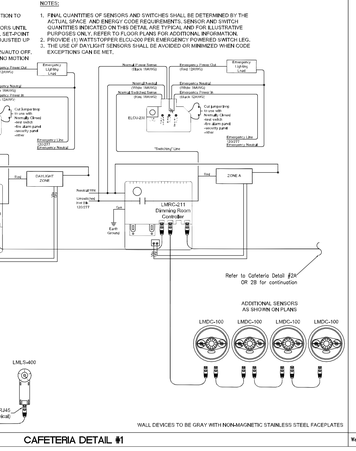
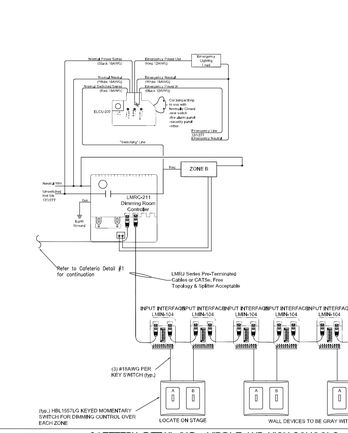


WALL DEVICES TO BE GRAY WITH NONMAGNETIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

CAFETERIA DETAIL #1



WALL DEVICES TO BE GRAY WITH NONMAGNETIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

CAFETERIA DETAIL #2B - MIDDLE AND HIGH SCHOOLS

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1. CONTACT CLOSURE FROM BMCS. USING A DIRECT LOW VOLTAGE CONNECTION TO LMIN. TRIGGERS BMCS OCCUPIED OR BMCS UNOCCUPIED STATE.
2. LOCAL SWITCH SHALL TURN LIGHTS ON AND WILL REMAIN ON UNLESS TURNED OFF BY SWITCH OR UNTIL BMCS UNOCCUPIED STATE IN WHICH THE LIGHTS SHALL TURN OFF.
3. BMCS UNOCCUPIED STATE. OCCUPANCY SENSORS ACT AS AUTO ON/AUTO OFF. OCCUPANCY SENSOR SHALL BE SET TO TIME OUT WITHIN 20-MINUTES OF NO MOTION DETECTED.

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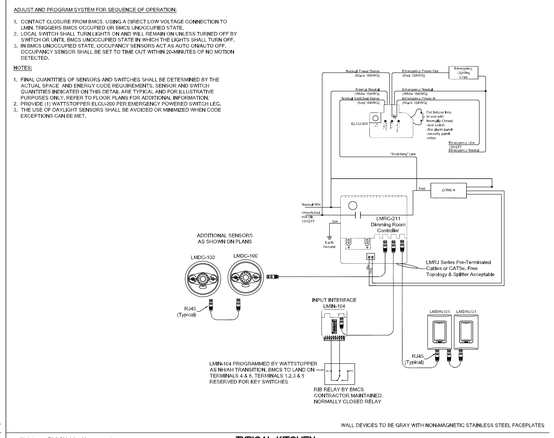

WALL DEVICES TO BE GRAY WITH NONMETALLIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

TYPICAL KITCHEN

ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:

1. SWITCHING SHALL BE IN AUTO ON 100% OPERATION. OCCUPANCY SENSORS WILL TURN ALL LOADS ON/OFF BASED ON OCCUPANCY.
2. OCCUPANCY SENSOR SHALL BE SET TO TIME OUT WITHIN 20 MINUTES OF NO MOTION DETECTED.

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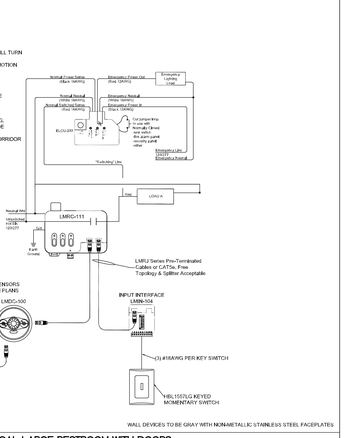

WALL DEVICES TO BE GRAY WITH NONMETALLIC STAINLESS STEEL FACEPLATES

Watttstopper Digital Lighting Management

TYPICAL LARGE RESTROOM WITH DOORS

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

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Author
Plot Stamp:
2/13/2025 4:44:39 PM

PBK

ARCHITECT
PBK Architects, Inc.
PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
CONSULTANT NAME
T 000-000-0000

LANDSCAPE
CONSULTANT NAME
T 000-000-0000

STRUCTURAL
CONSULTANT NAME
T 000-000-0000

MEP
CONSULTANT NAME
T 000-000-0000

ACOUSTIC
CONSULTANT NAME
T 000-000-0000

THEATER
CONSULTANT NAME
T 000-000-0000

FOOD SERVICE
CONSULTANT NAME
T 000-000-0000

OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School

11111 TEL GEF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

J H G F K E D C B A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MATTHEW R. SICKORE
107736
LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-19572

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

TYPICAL LIGHTING DETAILS

E-603

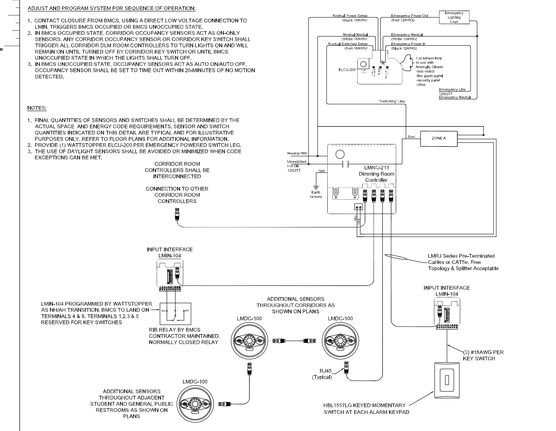
TYPICAL LIGHTING DETAILS

E-604

FOR BLUEBEAM LABELING/OCR:

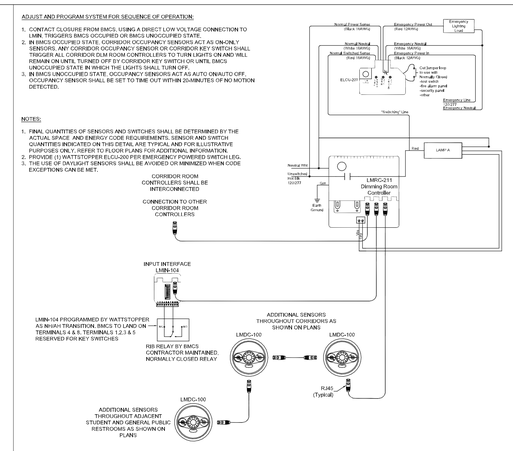
0"

1"



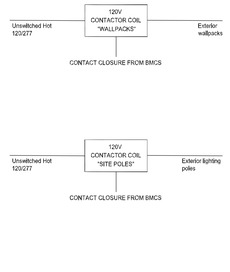
Wattstopper Digital Lighting Management

TYPICAL CORRIDOR WITH ENTRY KEYPAD

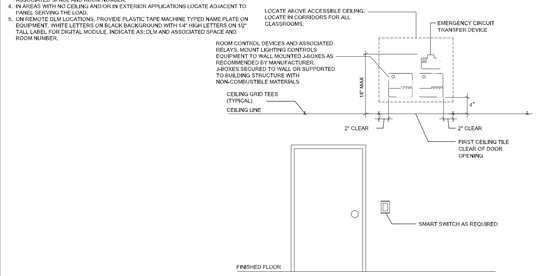


Wattstopper Digital Lighting Management

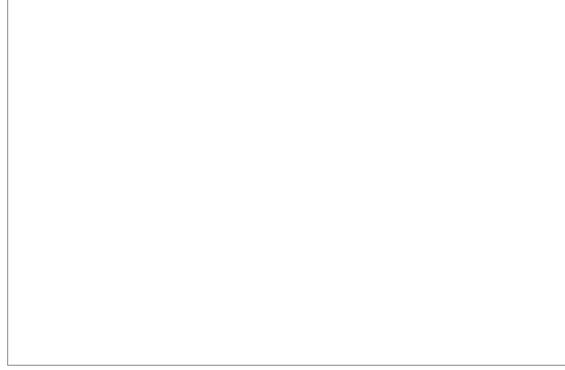
TYPICAL CORRIDOR WITHOUT ENTRY KEYPAD



TYPICAL CONTACTORS



TYPICAL MOUNTING DETAILS



TYPICAL MEPT SPACES

ISSUE FOR PROPOSAL

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

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Author
Plot Stamp:
2/13/2025 4:44:43 PM

PBK

ARCHITECT
PBK Architects, Inc.
PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

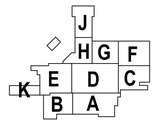
CIVIL
CONSULTANT NAME
T.000-000-0000
LANDSCAPE
CONSULTANT NAME
T.000-000-0000
STRUCTURAL
CONSULTANT NAME
T.000-000-0000
MEP
CONSULTANT NAME
T.000-000-0000
ACOUSTIC
CONSULTANT NAME
T.000-000-0000
THEATER
CONSULTANT NAME
T.000-000-0000
FOOD SERVICE
CONSULTANT NAME
T.000-000-0000
OTHER
CONSULTANT NAME
T.000-000-0000

LEAF ENGINEERS

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

TYPICAL LIGHTING DETAILS

E-604

0" 1"

ELECTRICAL PANEL SCHEDULES

E-701

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Voltage: **480Y/277V-3PH 4W** | A/C Rating **42000**
Main Type **MCB (225A)** | Main Size: **225 AMPS** | Ground **Equipment Ground**
Neutral **100%** | Lugs **SINGLE**

PANEL: **E1HCP1**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00	SPACE			1	A	2			PANEL E1LCP	0	360	0	0	0	833	0	0.00
							0.00	SPACE			3	B	4			-	0	360	0	0	0	833	0	0.00
							0.00	SPACE			5	C	6			-	0	360	0	0	0	833	0	0.00
							0.00	SPACE			7	A	8	RISER	70/3	PANEL E2LJ	0	1200	0	0	0	2867	11312	0.00
							0.00	SPACE			9	B	10	-	-	-	0	1200	0	0	0	2867	11312	0.00
							0.00	SPACE			11	C	12	-	-	-	0	1200	0	0	0	2867	11312	0.00
							0.00	SPACE			13	A	14	RISER	70/3	PANEL E1LD	0	2640	0	0	2094	6933	0	0.00
							0.00	SPACE			15	B	16	-	-	-	0	2640	0	0	2094	6933	0	0.00
							0.00	SPACE			17	C	18	-	-	-	0	2640	0	0	2094	6933	0	0.00
							0.00	SPACE			19	A	20	RISER	70/3	PANEL E1LD1	0	2700	0	0	2829	8000	0	0.00
							0.00	SPACE			21	B	22	-	-	-	0	2700	0	0	2829	8000	0	0.00
							0.00	SPACE			23	C	24	-	-	-	0	2700	0	0	2829	8000	0	0.00
							0.00	SPACE			25	A	26			SPACE								0.00
							0.00	SPACE			27	B	28			SPACE								0.00
							0.00	SPACE			29	C	30			SPACE								0.00
							0.00	SPACE			31	A	32			SPACE								0.00
							0.00	SPACE			33	B	34			SPACE								0.00
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38	10	30/3	SPD								0.00
							0.00	SPACE			39	B	40	-	-	-								0.00
							0.00	SPACE			41	C	42	-	-	-								0.00
0	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	20700	0	0	14768	55900	33936	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	20.7	0.0	0.0	14.8	55.9	33.9	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	15.4	0.0	0.0	14.8	55.9	22.1	0.0	Design KVA

Phase Load

Ph	KVA
A	41.8
B	41.8
C	41.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	125.3	150.7		108.1	130.0

Date: 2/13/2025 | By: Designer

PANEL: **E1HCP1**

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Voltage: **208Y/120V-3PH 4W** | A/C Rating **10000**
Main Type **MCB (125A)** | Main Size: **125 AMPS** | Ground **Equipment Ground**
Neutral **200%** | Lugs **FEED THRU**

PANEL: **E1LD1**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					2200		0.00	IDF	30/2	10	1	A	2	10	20/2	ACCU-0600A					1414			0.00
					2200		0.00	-	-	-	3	B	4	-	-	-					1414			0.00
					1200		0.00	IDF	20/1	12	5	C	6	12	20/1	FACP						500		0.00
					1200		0.00	SOUND RACK	20/1	12	7	A	8	12	20/1	BAS						500		0.00
							0.00	SPACE			9	B	10	12	20/1	MECH RECEPTACLES		1080						0.00
							0.00	SPACE			11	C	12	12	20/1	ACCESS CONTROL						500		0.00
							0.00	SPACE			13	A	14	12	20/1	INTRUSION PANEL						500		0.00
							0.00	SPACE			15	B	16	12	20/1	ELEC RECEPTACLES		1080						0.00
							0.00	SPACE			17	C	18	12	20/1	ROOF REC		180						0.00
							0.00	SPACE			19	A	20			SPACE								0.00
							0.00	SPACE			21	B	22			SPACE								0.00
							0.00	SPACE			23	C	24			SPACE								0.00
							0.00	SPACE			25	A	26			SPACE								0.00
							0.00	SPACE			27	B	28			SPACE								0.00
							0.00	SPACE			29	C	30			SPACE								0.00
							0.00	SPACE			31	A	32			SPACE								0.00
							0.00	SPACE			33	B	34			SPACE								0.00
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38	10	30/3	SPD								0.00
							0.00	SPACE			39	B	40	-	-	-								0.00
							0.00	SPACE			41	C	42	-	-	-								0.00
0	0	0	0	0	6600	0	0.00	**TOTALS**								**TOTALS**	0	2340	0	0	2829	2000	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	8.1	0.0	0.0	8.5	24.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	8.1	0.0	0.0	8.5	24.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	5.8
B	5.8
C	2.4

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	40.6	112.7		40.6	112.7

Date: 2/13/2025 | By: Designer

PANEL: **E1LD1**

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Voltage: **208Y/120V-3PH 4W** | A/C Rating **10000**
Main Type **MCB (100A)** | Main Size: **100 AMPS** | Ground **Equipment Ground**
Neutral **200%** | Lugs **SINGLE**

PANEL: **E1LCP**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00	SPACE			1	A	2	12	20/1	FACP						500		0.00
							0.00	SPACE			3	B	4	12	20/1	BAS						500		0.00
							0.00	SPACE			5	C	6	12	20/1	MECH RECEPTACLES		1080						0.00
							0.00	SPACE			7	A	8			SPACE								0.00
							0.00	SPACE			9	B	10			SPACE								0.00
							0.00	SPACE			11	C	12			SPACE								0.00
							0.00	SPACE			13	A	14			SPACE								0.00
							0.00	SPACE			15	B	16			SPACE								0.00
							0.00	SPACE			17	C	18			SPACE								0.00
							0.00	SPACE			19	A	20			SPACE								0.00
							0.00	SPACE			21	B	22			SPACE								0.00
							0.00	SPACE			23	C	24			SPACE								0.00
							0.00	SPACE			25	A	26			SPACE								0.00
							0.00	SPACE			27	B	28			SPACE								0.00
							0.00	SPACE			29	C	30			SPACE								0.00
							0.00	SPACE			31	A	32	12	20/1	BATTERY CHARGER						500		0.00
							0.00	SPACE			33	B	34	12	20/1	JACKET HEATER						500		0.00
							0.00	SPACE			35	C	36	12	20/1	GEN CONTROLS						500		0.00
							0.00	SPACE			37	A	38	10	30/3	SPD								0.00
							0.00	SPACE			39	B	40	-	-	-								0.00
							0.00	SPACE			41	C	42	-	-	-								0.00
0	0	0	0	0	0	0	0	**TOTALS**								**TOTALS**	0	1080	0	0	0	2500	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	1.1	0.0	0.0	0.0	2.5	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	1.1	0.0	0.0	0.0	2.5	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	1.0
B	1.0
C	1.6

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	3.6	9.9		3.6	9.9

Date: 2/13/2025 | By: Designer

PANEL: **E1LCP**

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Voltage: **208Y/120V-3PH 4W** | A/C Rating **10000**
Main Type **MCB (100A)** | Main Size: **100 AMPS** | Ground **Equipment Ground**
Neutral **200%** | Lugs **SINGLE**

PANEL: **E1LE**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					2200		0.00	IDF	30/2	10	1	A	2	10	20/2	ACCU-B920					1414			0.00
					2200		0.00	-	-	-	3	B	4	-	-	-					1414			0.00
					1200		0.00	IDF	20/1	12	5	C	6	10	20/2	ACCU-E445A					1414			0.00
					1200		0.00	IDF	20/1	12	7	A	8	-	-	-					1414			0.00
					2200		0.00	IDF	30/2	10	9	B	10	12	20/1	FACP						500		0.00
					2200		0.00	-	-	-	11	C	12	12	20/1	BAS						500		0.00
180							0.00	ROOF REC	20/1	12	13	A	14	12	20/1	MECH RECEPTACLES		1080						0.00
180							0.00	ROOF REC	20/1	12	15	B	16	12	20/1	FACP						500		0.00
							0.00	SPACE			17	C	18	12	20/1	BAS						500		0.00
							0.00	SPACE			19	A	20	12	20/1	MECH RECEPTACLES		1080						0.00
							0.00	SPACE			21	B	22	12	20/1	ACCESS CONTROL						500		0.00
							0.00	SPACE			23	C	24	12	20/1	INTRUSION PANEL						500		0.00
							0.00	SPACE			25	A	26	12	20/1	ACCESS CONTROL						500		0.00
							0.00	SPACE			27	B	28	12	20/1	INTRUSION PANEL						500		0.00
							0.00	SPACE			29	C	30	12	20/1	ELEC RECEPTACLES		1080						0.00
							0.00	SPACE			31	A	32	12	20/1	IDF RECEPTACLES		1080						0.00
							0.00	SPACE			33	B	34	12	20/1	IDF RECEPTACLES		1080						0.00
							0.00	SPACE			35	C	36		20/1	SPARE								1.00
							0.00	SPACE			37	A	38	10	30/3	SPD								0.00
							0.00	SPACE			39	B	40	-	-	-								0.00
							0.00	SPACE			41	C	42	-	-	-								0.00
0	360	0	0	0	11200	0	0.00	**TOTALS**								**TOTALS**	0	5400	0	0	5658	4000	0	1.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	5.8	0.0	0.0	5.7	15.2	0.0	1.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	5.8	0.0	0.0	5.7	15.2	0.0	0.5	Design KVA

Phase Load

Ph	KVA
A	10.1
B	9.1
C	7.4

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	27.6	76.7		27.1	75.3

Date: 2/13/2025 | By: Designer

PANEL: **E1LE**

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Voltage: **208Y/120V-3PH 4W** | A/C Rating **10000**
Main Type **MCB (125A)** | Main Size: **125 AMPS** | Ground **Equipment Ground**
Neutral **200%** | Lugs **FEED THRU**

PANEL: **E1LD**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					2200		0.00	IDF	30/2	10	1	A	2	10	20/2	ACCU-A623					1414			0.00
					2200		0.00	-	-	-	3	B	4	-	-	-					1414			0.00
					1200		0.00	IDF	20/1	12	5	C	6	12	20/1	FACP						500		0.00
							0.00	SPACE			7	A	8	12	20/1	BAS						500		0.00
							0.00	SPACE			9	B	10	12	20/1	MECH RECEPTACLES		1080						0.00
							0.00	SPACE			11	C	12		20/1	SPARE								1.00
							0.00	SPACE			13	A	14	12	20/1	ACCESS CONTROL						500		0.00
							0.00	SPACE			15	B	16	12	20/1	INTRUSION PANEL						500		0.00
							0.00	SPACE			17	C	18	12	20/1	ELEC RECEPTACLES		1080						0.00
							0.00	SPACE			19	A	20	12	20/1	IDF RECEPTACLES		1080						0.00
							0.00	SPACE			21	B	22	12	20/1	ROOF REC		180						0.00
							0.00	SPACE			23	C	24			SPACE								0.00
							0.00	SPACE			25	A	26			SPACE								0.00
							0.00	SPACE			27	B	28			SPACE								0.00
							0.00	SPACE			29	C	30			SPACE								0.00
							0.00	SPACE			31	A	32			SPACE								0.00
							0.00	SPACE			33	B	34			SPACE								0.00
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38	10	30/3	SPD								0.00
							0.00	SPACE			39	B	40	-	-	-								0.00
							0.00	SPACE			41	C	42	-	-	-								0.00
0	0	0	0	0	5600	0	0.00	**TOTALS**								**TOTALS**	0	3420	0	0	2829	2000	0	1.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	7.9	0.0	0.0	6.3	20.8	0.0	1.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	7.9	0.0	0.0	6.3	20.8	0.0	0.5	Design KVA

Phase Load

Ph	KVA
A	5.7
B	5.4
C	2.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	36.0	99.9		35.5	98.5

Date: 2/13/2025 | By: Designer

PANEL: **E1LD**

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Voltage: **208Y/120V-3PH 4W** | A/C Rating **10000**
Main Type **MCB (100A)** | Main Size: **100 AMPS** | Ground **Equipment Ground**
Neutral **200%** | Lugs **SINGLE**

PANEL: **E1LF**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1200		0.00	IDF	20/1	12	1	A	2	10	20/2	ACCU-G229					1726			0.00
					1200		0.00	IDF	20/1	12	3	B	4	-	-	-					1726			0.00
					2200		0.00	IDF	30/2	10	5	C	6	12	20/1	FACP						500		0.00
					2200		0.00	-	-	-	7	A	8	12	20/1	BAS						500		0.00
					300		0.00	FACP	20/1	12	9	B	10	12	20/1	MECH RECEPTACLES		1080						0.00
					300		0.00	FIRE ALARM ANNUN	20/1	12	11	C	12	12	20/1	FACP						500		0.00
180							0.00	ROOF REC	20/1	12	13	A	14	12	20/1	BAS						500		0.00
							0.00	SPACE			15	B	16	12	20/1	MECH RECEPTACLES		1080						0.00
							0.00	SPACE			17	C	18	12	20/1	FACP						500		0.00
							0.00	SPACE			19	A	20	12	20/1	BAS						500		0.00
							0.00	SPACE			21	B	22	12	20/1	MECH RECEPTACLES		1080						0.00
							0.00	SPACE			23	C	24	12	20/1	INTERCOM / CLOCK						500		0.00
							0.00	SPACE			25	A	26	12	20/1	ACCESS CONTROL						500		0.00
							0.00	SPACE			27	B	28	12	20/1	INTRUSION PANEL						500		0.00
							0.00	SPACE			29	C	30	12	20/1	IDF RECEPTACLES		1080						0.00
							0.00	SPACE			31	A	32	12	20/1	REFRIGERATOR						800		0.00
							0.00	SPACE			33	B	34	12	20/1	CLINIC QUAD						500		0.00
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38	10	30/3	SPD								0.00
							0.00	SPACE			39	B	40	-	-	-								0.00
							0.00	SPACE			41	C	42	-	-	-								0.00
0	180	0	0	0	7400	0	0.00	**TOTALS**								**TOTALS**	0	4320	0	0	3453	5800	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	4.5	0.0	0.0	3.5	13.2	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	4.5	0.0	0.0	3.5	13.2	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	8.1
B	7.5
C	5.6

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	21.2	58.7		21.2	58.7

Date: 2/13/2025 | By: Designer

PANEL: **E1LF**

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

CHECKED BY:
Checker
DRAWN BY:
Author
Plot Stamp:
2/13/2025 4:44:55 PM

PBK

ARCHITECT: **PBK Architects, Inc.** PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
CONSULTANT NAME
T 000-000-0000

LANDSCAPE
CONSULTANT NAME
T 000-000-0000

STRUCTURAL
CONSULTANT NAME
T 000-000-0000

MEP
CONSULTANT NAME
T 000-000-0000

ACOUSTIC
CONSULTANT NAME
T 000-000-0000

THEATER
CONSULTANT NAME
T 000-000-0000

FOOD SERVICE
CONSULTANT NAME
T 000-000-0000

OTHER
CONSULTANT NAME
T 000-000-0000

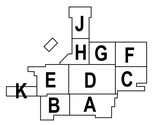
LEAF ENGINEERS

Arnold Middle School

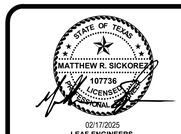
11111 TEL GF RD.
CYPRESS, TX 77429

ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-19572

CLIENT
Cy-Fair Independent School District

DATE 02/17/2025 | PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ELECTRICAL PANEL SCHEDULES

E-701

ELECTRICAL PANEL SCHEDULES

E-702

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

0" 1"

Job: Job Name — Job No. Job Number — AIC Rating **10000**

Mounting: **SURFACE** — Voltage: **208Y/120V-3PH 4W** — Ground: **Equipment Ground**

Main Type: **MCB (60A)** — Main Size: **100 AMPS** — Lugs: **SINGLE**

Neutral: **200%**

PANEL: **E1LH**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00	SPACE			1	A	2	12	20/1	ELEC RECEPTACLES		1080						0.00
							0.00	SPACE			3	B	4	12	20/1	BAS						500		0.00
							0.00	SPACE			5	C	6	12	20/1	MECH RECEPTACLES		360						0.00
							0.00	SPACE			7	A	8			SPACE								0.00
							0.00	SPACE			9	B	10			SPACE								0.00
							0.00	SPACE			11	C	12			SPACE								0.00
							0.00	SPACE			13	A	14			SPACE								0.00
							0.00	SPACE			15	B	16			SPACE								0.00
							0.00	SPACE			17	C	18			SPACE								0.00
							0.00	SPACE			19	A	20			SPACE								0.00
							0.00	SPACE			21	B	22			SPACE								0.00
							0.00	SPACE			23	C	24			SPACE								0.00
							0.00	SPACE			25	A	26			SPACE								0.00
							0.00	SPACE			27	B	28			SPACE								0.00
							0.00	SPACE			29	C	30			SPACE								0.00
							0.00	SPACE			31	A	32			SPACE								0.00
							0.00	SPACE			33	B	34			SPACE								0.00
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38	10	30/3	SPD								0.00
							0.00	SPACE			39	B	40	-	-	-								0.00
							0.00	SPACE			41	C	42	-	-	-								0.00
0	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	1440	0	0	0	500	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	1.4	0.0	0.0	0.0	0.5	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	1.4	0.0	0.0	0.0	0.5	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	1.1
B	0.5
C	0.4

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	1.9	5.4		1.9	5.4

PANEL: **E1LH**

Date: 2/13/2025 — By: Designer

Job: Job Name — Job No. Job Number — AIC Rating **10000**

Mounting: **SURFACE** — Voltage: **208Y/120V-3PH 4W** — Ground: **Equipment Ground**

Main Type: **MCB (125A)** — Main Size: **125 AMPS** — Lugs: **FEED THRU**

Neutral: **200%**

PANEL: **E2LJ**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					2200		0.00	IDF	30/2	10	1	A	2	12	20/1	PRESSURE RELIEF PORT							1200	0.00
					2200		0.00	-	-	-	3	B	4	12	20/1	DOOR HEATER / LTG							1200	0.00
					1200		0.00	IDF	20/1	12	5	C	6	12	20/1	TEMP MONITOR							1200	0.00
						1200	0.00	REFRIGERATOR	20/1	12	7	A	8	12	20/2	FREEZER COIL							1200	0.00
					500		0.00	MANAGER WRKSTATION	20/1	12	9	B	10	-	-	-							1200	0.00
						1920	0.00	KITCHEN POS	20/1	12	11	C	12	12	20/1	PRESSURE RELIEF PORT							1200	0.00
						1920	0.00	KITCHEN POS	20/1	12	13	A	14	12	20/1	DOOR HEATER / LTG							1200	0.00
						1920	0.00	KITCHEN POS	20/1	12	15	B	16	12	20/1	TEMP MONITOR							1200	0.00
							0.00	SPACE			17	C	18	12	20/1	COOLER COIL							1200	0.00
							0.00	SPACE			19	A	20	4	60/3	REFRIGERATION RACK							5392	0.00
							0.00	SPACE			21	B	22	-	-	-							5392	0.00
							0.00	SPACE			23	C	24	-	-	-							5392	0.00
							0.00	SPACE			25	A	26	12	20/1	FACP						500		0.00
							0.00	SPACE			27	B	28	12	20/1	BAS						500		0.00
							0.00	SPACE			29	C	30	12	20/1	MECH RECEPTACLES		1080						0.00
							0.00	SPACE			31	A	32	12	20/1	FACP						500		0.00
							0.00	SPACE			33	B	34	12	20/1	BAS						500		0.00
							0.00	SPACE			35	C	36	12	20/1	MECH RECEPTACLES		1080						0.00
							0.00	SPACE			37	A	38	10	30/3	SPD								0.00
							0.00	SPACE			39	B	40	-	-	-								0.00
							0.00	SPACE			41	C	42	-	-	-								0.00
0	0	0	0	0	6100	6960	0.00	**TOTALS**								**TOTALS**	0	2160	0	0	0	2000	26976	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	3.6	0.0	0.0	0.0	8.6	33.9	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	3.6	0.0	0.0	0.0	8.6	22.1	0.0	Design KVA

Phase Load	
Ph	KVA
A	15.3
B	14.6
C	14.3

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	46.1	128.1		34.3	95.1

PANEL: **E2LJ**

Date: 2/13/2025 — By: Designer

Job: Job Name — Job No. Job Number — AIC Rating **42000**

Mounting: **SURFACE** — Voltage: **480Y/277V-3PH 4W** — Ground: **Equipment Ground**

Main Type: **MCB (100A)** — Main Size: **100 AMPS** — Lugs: **SINGLE**

Neutral: **100%**

PANEL: **E1HCP**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
2770							0.00	INTERIOR E LTG	20/1	10	1	A	2	RISER	50/3	PANEL L2HJ	6273	0	0	0	0	0	0	0.00
2770							0.00	EXTERIOR E LTG	20/1	10	3	B	4	-	-	-	6273	0	0	0	0	0	0	0.00
100							0.00	EXIT SIGNS	20/1	10	5	C	6	-	-	-	6273	0	0	0	0	0	0	0.00
							0.00	SPACE			7	A	8	RISER	50/3	PANEL L1HD	6273	0	0	0	0	0	0	0.00
							0.00	SPACE			9	B	10	-	-	-	6273	0	0	0	0	0	0	0.00
							0.00	SPACE			11	C	12	-	-	-	6273	0	0	0	0	0	0	0.00
							0.00	SPACE			13	A	14	RISER	50/3	PANEL L1HD1	6273	0	0	0	0	0	0	0.00
							0.00	SPACE			15	B	16	-		-	6273	0	0	0	0	0	0	0.00
							0.00	SPACE			17	C	18	-	-	-	6273	0	0	0	0	0	0	0.00
							0.00	SPACE			19	A	20			SPACE								0.00
							0.00	SPACE			21	B	22			SPACE								0.00
							0.00	SPACE			23	C	24			SPACE								0.00
							0.00	SPACE			25	A	26			SPACE								0.00
							0.00	SPACE			27	B	28			SPACE								0.00
							0.00	SPACE			29	C	30			SPACE								0.00
							0.00	SPACE			31	A	32			SPACE								0.00
							0.00	SPACE			33	B	34			SPACE								0.00
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38	10	30/3	SPD								0.00
							0.00	SPACE			39	B	40	-	-	-								0.00
							0.00	SPACE			41	C	42	-	-	-								0.00
5640	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	56460	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
62.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
77.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	21.6
B	21.6
C	18.9

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	62.1	74.7		77.6	93.4

PANEL: **E1HCP**

Date: 2/13/2025 — By: Designer

Job: Job Name — Job No. Job Number — AIC Rating **42000**

Mounting: **SURFACE** — Voltage: **480Y/277V-3PH 4W** — Ground: **Equipment Ground**

Main Type: **MCB (100A)** — Main Size: **100 AMPS** — Lugs: **SINGLE**

Neutral: **100%**

PANEL: **E1HD**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
2770							0.00	INTERIOR E LTG	20/1	10	1	A	2			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	3	B	4			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	5	C	6			SPACE								0.00
1000							0.00	EXTERIOR E LTG	20/1	10	7	A	8			SPACE								0.00
100							0.00	EXIT SIGNS	20/1	10	9	B	10			SPACE								0.00
							0.00	SPACE			11	C	12			SPACE								0.00
							0.00	SPACE			13	A	14			SPACE								0.00
							0.00	SPACE			15	B	16			SPACE								0.00
							0.00	SPACE			17	C	18			SPACE								0.00
							0.00	SPACE			19	A	20	10	30/3	SPD								0.00
							0.00	SPACE			21	B	22	-	-	-								0.00
							0.00	SPACE			23	C	24	-	-	-								0.00
9410	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	3.8
B	2.9
C	2.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	18.8	22.6		23.5	28.3

PANEL: **E1HD**

Date: 2/13/2025 — By: Designer

Job: Job Name — Job No. Job Number — AIC Rating **42000**

Mounting: **SURFACE** — Voltage: **480Y/277V-3PH 4W** — Ground: **Equipment Ground**

Main Type: **MCB (50A)** — Main Size: **100 AMPS** — Lugs: **SINGLE**

Neutral: **100%**

PANEL: **E1HD1**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
2770							0.00	INTERIOR E LTG	20/1	10	1	A	2			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	3	B	4			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	5	C	6			SPACE								0.00
1000							0.00	EXTERIOR E LTG	20/1	10	7	A	8			SPACE								0.00
100							0.00	EXIT SIGNS	20/1	10	9	B	10			SPACE								0.00
							0.00	SPACE			11	C	12			SPACE								0.00
							0.00	SPACE			13	A	14			SPACE								0.00
							0.00	SPACE			15	B	16			SPACE								0.00
							0.00	SPACE			17	C	18			SPACE								0.00
							0.00	SPACE			19	A	20	10	30/3	SPD								0.00
							0.00	SPACE			21	B	22	-	-	-								0.00
							0.00	SPACE			23	C	24	-	-	-								0.00
9410	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	3.8
B	2.9
C	2.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	18.8	22.6		23.5	28.3

PANEL: **E1HD1**

Date: 2/13/2025 — By: Designer

Job: Job Name — Job No. Job Number — AIC Rating **42000**

Mounting: **SURFACE** — Voltage: **480Y/277V-3PH 4W** — Ground: **Equipment Ground**

Main Type: **MCB (100A)** — Main Size: **100 AMPS** — Lugs: **SINGLE**

Neutral: **100%**

PANEL: **E1HE**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
2770							0.00	INTERIOR E LTG	20/1	10	1	A	2			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	3	B	4			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	5	C	6			SPACE								0.00
1000							0.00	EXTERIOR E LTG	20/1	10	7	A	8			SPACE								0.00
100							0.00	EXIT SIGNS	20/1	10	9	B	10			SPACE								0.00
							0.00	SPACE			11	C	12			SPACE								0.00
							0.00	SPACE			13	A	14			SPACE								0.00
							0.00	SPACE			15	B	16			SPACE								0.00
							0.00	SPACE			17	C	18			SPACE								0.00
							0.00	SPACE			19	A	20	10	30/3	SPD								0.00
							0.00	SPACE			21	B	22	-	-	-								0.00
							0.00	SPACE			23	C	24	-	-	-								0.00
9410	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	3.8
B	2.9
C	2.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	9.4	11.3		11.8	14.1

PANEL: **E1HE**

Date: 2/13/2025 — By: Designer

Job: Job Name — Job No. Job Number — AIC Rating **42000**

Mounting: **SURFACE** — Voltage: **480Y/277V-3PH 4W** — Ground: **Equipment Ground**

Main Type: **MCB (100A)** — Main Size: **100 AMPS** — Lugs: **SINGLE**

Neutral: **100%**

PANEL: **E1HF**

ALL LOADS IN VA																									
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
2770							0.00	INTERIOR E LTG	20/1	10	1	A	2			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	3	B	4			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	5	C	6			SPACE								0.00
1000							0.00	EXTERIOR E LTG	20/1	10	7	A	8			SPACE								0.00
100							0.00	EXIT SIGNS	20/1	10	9	B	10			SPACE								0.00
							0.00	SPACE			11	C	12			SPACE								0.00
							0.00	SPACE			13	A	14			SPACE								0.00
							0.00	SPACE			15	B	16			SPACE								0.00
							0.00	SPACE			17	C	18			SPACE								0.00
							0.00	SPACE			19	A	20	10	30/3	SPD								0.00
							0.00	SPACE			21	B	22	-	-	-								0.00
							0.00	SPACE			23	C	24	-	-	-								0.00
9410	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	3.8
B	2.9
C	2.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	9.4	11.3		11.8	14.1

PANEL: **E1HF**

Date: 2/13/2025 — By: Designer

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

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Author
Plot Stamp:
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PBK

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713-961-4571 F
TX Firm: BR 1608

CIVIL
CONSULTANT NAME
T 000-000-0000

LANDSCAPE
CONSULTANT NAME
T 000-000-0000

STRUCTURAL
CONSULTANT NAME
T 000-000-0000

MEP
CONSULTANT NAME
T 000-000-0000

ACOUSTIC
CONSULTANT NAME
T 000-000-0000

THEATER
CONSULTANT NAME
T 000-000-0000

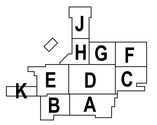
FOOD SERVICE
CONSULTANT NAME
T 000-000-0000

CODE
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School
11111 TEL GEF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-19572

CLIENT
Cy-Fair Independent School District

DATE 02/17/2025 — PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ELECTRICAL PANEL SCHEDULES

E-702

ELECTRICAL PANEL SCHEDULES

E-703

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Main Type: **MCB (100A)** | Neutral: **100%**

Voltage: **480Y/277V-3PH 4W** | Main Size: **100 AMPS**

AIC Rating: **42000** | Ground: **Equipment Ground** | Lugs: **SINGLE**

PANEL: **E1HH**

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
2770							0.00	INTERIOR E LTG	20/1	10	1	A	2			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	3	B	4			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	5	C	6			SPACE								0.00
1000							0.00	EXTERIOR E LTG	20/1	10	7	A	8			SPACE								0.00
100							0.00	EXIT SIGNS	20/1	10	9	B	10			SPACE								0.00
							0.00	SPACE			11	C	12			SPACE								0.00
							0.00	SPACE			13	A	14			SPACE								0.00
							0.00	SPACE			15	B	16			SPACE								0.00
							0.00	SPACE			17	C	18			SPACE								0.00
							0.00	SPACE			19	A	20	10	30/3	SPD								0.00
							0.00	SPACE			21	B	22	-	-	-								0.00
							0.00	SPACE			23	C	24	-	-	-								0.00
9410	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	3.8
B	2.9
C	2.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	9.4	11.3		11.8	14.1

PANEL: **E1HH**

Date: 2/13/2025 | By: Designer

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Main Type: **MCB (50A)** | Neutral: **100%**

Voltage: **480Y/277V-3PH 4W** | Main Size: **100 AMPS**

AIC Rating: **42000** | Ground: **Equipment Ground** | Lugs: **FEED THRU**

PANEL: **E2HJ**

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
2770							0.00	INTERIOR E LTG	20/1	10	1	A	2			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	3	B	4			SPACE								0.00
2770							0.00	INTERIOR E LTG	20/1	10	5	C	6			SPACE								0.00
1000							0.00	EXTERIOR E LTG	20/1	10	7	A	8			SPACE								0.00
100							0.00	EXIT SIGNS	20/1	10	9	B	10			SPACE								0.00
							0.00	SPACE			11	C	12			SPACE								0.00
							0.00	SPACE			13	A	14			SPACE								0.00
							0.00	SPACE			15	B	16			SPACE								0.00
							0.00	SPACE			17	C	18			SPACE								0.00
							0.00	SPACE			19	A	20	10	30/3	SPD								0.00
							0.00	SPACE			21	B	22	-	-	-								0.00
							0.00	SPACE			23	C	24	-	-	-								0.00
9410	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	3.8
B	2.9
C	2.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	18.8	22.6		23.5	28.3

PANEL: **E2HJ**

Date: 2/13/2025 | By: Designer

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Main Type: **MCB (150A)** | Neutral: **200%**

Voltage: **208Y/120V-3PH 4W** | Main Size: **225 AMPS**

AIC Rating: **10000** | Ground: **Equipment Ground** | Lugs: **SINGLE**

PANEL: **L4F**

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	700						0.00	EXISTING	20/1	12	1	A	2	12	15/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	3	B	4	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	10	5	C	6	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	10	7	A	8	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	9	B	10	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	11	C	12	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	13	A	14	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	15	B	16	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	17	C	18	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	19	A	20	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	21	B	22	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	23	C	24	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	25	A	26	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	27	B	28	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	29	C	30	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	31	A	32	12	20/1	EXISTING		700						0.00
	700						0.00	EXISTING	20/1	12	33	B	34	12	20/1	**GIRLS PE - 2 REC**		**360**						
	700						0.00	EXISTING	20/1	10	35	C	36	12	20/1	**CF-01**			**1000**					0.00
	700						0.00	EXISTING	20/1	10	37	A	38	12	20/1	**CF-02**			**1000**					0.00
	700						0.00	EXISTING	20/1	10	39	B	40	12	20/1	**CF-03**			**1000**					0.00
	700						0.00	EXISTING	20/1	12	41	C	42	12	20/1	**CF-04**			**1000**					0.00
							0.00	SPACE			43	A	44	12	20/1	**CF-05**			**1000**					0.00
							0.00	SPACE			45	B	46	12	20/1	**GIRLS PE - 2 REC**		**360**						
							0.00	SPACE			47	C	48	12	20/1	**CF-07**			**1000**					0.00
							0.00	SPACE			49	A	50	12	20/1	**CF-08**			**1000**					0.00
							0.00	SPACE			51	B	52	12	20/1	**CF-09**			**1000**					0.00
							0.00	SPACE			53	C	54	12	20/1	**CF-06**			**1000**					0.00
							0.00	SPACE			55	A	56	12	20/1	**GIRLS ATH - 2 REC**		**360**						
							0.00	SPACE			57	B	58	12	20/1	**CF-10**			**1000**					0.00
							0.00	SPACE			59	C	60	12	20/1	**AUX GYM SOUND RACK**						**300**		0.00
0	14700	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	11560	4000	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	26.3	4.0	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	18.1	4.0	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	10.1
B	9.8
C	10.4

Panel Remarks:

EXISITNG PANEL TO REMAIN. BOLD INDICATES NEW

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	30.3	84.0		22.1	61.4

PANEL: **L4F**

Date: 2/13/2025 | By: Designer

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Main Type: **MCB (100A)** | Neutral: **200%**

Voltage: **208Y/120V-3PH 4W** | Main Size: **100 AMPS**

AIC Rating: **10000** | Ground: **Equipment Ground** | Lugs: **SINGLE**

PANEL: **L4E**

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00	EXISTNG	20/1		1	A	2		20/1	EXISTNG								0.00
							0.00	EXISTNG	20/1		3	B	4		20/1	EXISTNG								0.00
							0.00	EXISTNG	20/1		5	C	6		20/1	EXISTNG								0.00
							0.00	EXISTNG	20/1		7	A	8		20/1	EXISTNG								0.00
							0.00	EXISTNG	20/1		9	B	10		20/1	EXISTNG								0.00
							0.00	EXISTNG	20/1		11	C	12		20/1	EXISTNG								0.00
							0.00	EXISTNG	20/1		13	A	14	12	20/1	**CF-19**					**1000**			0.00
							0.00	EXISTNG	20/1		15	B	16	12	20/1	**CF-18**					**1000**			0.00
							0.00	EXISTNG	20/1		17	C	18	12	20/1	**CF-17**					**1000**			0.00
							0.00	EXISTNG	20/1		19	A	20	12	20/1	**CF-16**					**1000**			0.00
							0.00	EXISTNG	20/1		21	B	22	12	20/1	**CF-11**					**1000**			0.00
							0.00	SPACE			23	C	24	12	20/1	**CF-12**					**1000**			0.00
							0.00	SPACE			25	A	26	12	20/1	**CF-13**					**1000**			0.00
							0.00	SPACE			27	B	28	12	20/1	**CF-14**					**1000**			0.00
							0.00	SPACE			29	C	30	12	20/1	**CF-15**					**1000**			0.00
							0.00	SPACE			31	A	32	12	20/1	**BOYS ATH - 2 REC**		**360**						
							0.00	SPACE			33	B	34	12	20/1	**BOYS PE - 2 REC**		**360**						
							0.00	SPACE			35	C	36			SPACE								0.00
							0.00	SPACE			37	A	38			SPACE								0.00
							0.00	SPACE			39	B	40			SPACE								0.00
							0.00	SPACE			41	C	42			SPACE								0.00
0	0	0	0	0	0	0	9900	**TOTALS**								**TOTALS**	0	720	9000	0	0	5400	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.7	9.0	0.0	0.0	15.3	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.7	9.0	0.0	0.0	15.3	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	8.8
B	8.8
C	7.5

Panel Remarks:

EXISITNG PANEL TO REMAIN. BOLD INDICATES NEW

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	25.0	69.4		25.0	69.4

PANEL: **L4E**

Date: 2/13/2025 | By: Designer

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Main Type: **MCB (100A)** | Neutral:

Voltage: | Main Size:

AIC Rating: **10000** | Ground: **Equipment Ground** | Lugs: **SINGLE**

PANEL: **(E) H4B**

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00	EXISTING LOAD	15/1		1	A	2		15/3	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	15/1		3	B	4		-	-								0.00
							0.00	EXISTING LOAD	15/1		5	C	6		-	-								0.00
							0.00	EXISTING LOAD	15/1		7	A	8		20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	15/1		9	B	10		20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	15/1		11	C	12		20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	15/1		13	A	14		20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	15/1		15	B	16		20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	15/1		17	C	18		20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	15/1		19	A	20		20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	15/1		21	B	22	12	20/3	**AHU-H-01**					**1330**			0.00
							0.00	EXISTING LOAD	15/1		23	C	24	-	-	-					**1330**			0.00
							0.00	EXISTING LOAD	15/1		25	A	26	-	-	-					**1330**			0.00
							0.00	EXISTING LOAD	15/1		27	B	28	12	20/3	**AHU-H-02**					**582**			0.00
							1.00	SPARE	20/1		29	C	30	-	-	-					**582**			0.00
							1.00	SPARE	20/1		31	A	32	-	-	-					**582**			0.00
							1.00	SPARE	20/1		33	B	34	12	15/3	**RTU-H-02**					**830**			0.00
							1.00	SPARE	20/1		35	C	36	-	-	-					**830**			0.00
		830					**0.00**	**RTU-H-02**	**15/3**	**12**	37	A	38	-	-	-					**830**			0.00
		830					**0.00**	**-**	-	-	39	B	40			SPACE								0.00
		830					**0.00**	**-**	-	-	41	C	42			SPACE								0.00
0	0	2490	0	0	0	0	4.00	**TOTALS**								**TOTALS**	0	0	8227	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	10.7	0.0	0.0	0.0	0.0	4.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	10.7	0.0	0.0	0.0	0.0	2.0	Design KVA

Phase Load

Ph	KVA
A	3.6
B	3.6
C	3.6

Panel Remarks:

BOLD INDICATES NEW

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	14.7	17.7		12.7	15.3

PANEL: **(E) H4B**

Date: 2/13/2025 | By: Designer

Job: Job Name | Job No. Job Number

Mounting: **SURFACE** | Main Type: **MCB (400A)** | Neutral: **200%**

Voltage: **208Y/120V-3PH 4W** | Main Size: **400 AMPS**

AIC Rating: **10000** | Ground: **Equipment Ground** | Lugs: **SINGLE**

PANEL: **(E) L4B1 SEC.2**

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00	EXISTING LOAD	20/1	-	43	A	44	-	20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	20/1	-	45	B	46	-	20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	20/1	-	47	C	48	-	20/1	EXISTING LOAD								0.00
	180						0.00	**AV4- REC - CAFÉ**	20/1	**8**	**49**	**A**	**50**	**SEE**	**100/3**	**MOTORIZED BREAKER**						**7200**		0.00
	180						0.00	**CR2 REC - CAFÉ**	20/1	**8**	**51**	**B**	**52**	**RISER**	**-**	**PANEL (MBP)**						**7200**		0.00
	180						0.00	**TFP REC - STAGE**	20/1	**10**	**53**	**C**	**54**	-	-	-						**7200**		0.00
	180						0.00	**CR3 REC - STAGE**	20/1	**10**	**55**	**A**	**56**	**10**	**20/1**	**MBP LOCAL POWER**						**300**		0.00
	180						0.00	**TFP REC - STAGE**	20/1	**10**	**57**	**B**	**58**	**10**	**20/1**	**PROJECTOR SCREEN**			**600**					0.00
							0.00	**AV RACK - STAGE**	20/1	**10**	**59**	**C**	**60**	**10**	**20/1**	**PROJECTOR - CAFÉ**						**600**		0.00
							0.00	**AV RACK - STAGE**	20/1	**10**	**61**	**A**	**62**	**10**	**20/2**	**PROJECTOR - CAFÉ**						**800**		0.00
							0.00	**AV RACK - STAGE**	20/1	**10**	**63**	**B**	**64**	-	-	-						**800**		0.00
	180						0.00	**CR3 REC - STAGE**	20/1	**10**	**65**	**C**	**66**	**12**	**20/1**	**3 RECS - ORCHESTRA**		**540**						0.00
	180						0.00	**TFP REC - STAGE**	**20/1**	**10**	**67**	**A**	**68**	**12**	**20/1**	**3 RECS - ENSEMBLE**		**540**						0.00
							0.00	**M2 REC - STAGE**	**20/1**	**10**	**69**	**B**	**70**	**12**	**20/1**	**3 RECS - ENSEMBLE**		**540**						0.00
							0.00	**M2 REC - STAGE**	**20/1**	**10**	**71**	**C**	**72**	**12**	**20/1**	**PROJECTOR - ORCHE**						**500**		0.00
							0.00	**M2 REC - STAGE**	**20/1**	**10**	**73**	**A**	**74**	**12**	**20/1**	**2 RECS - ORCHESTRA**		**360**						0.00
							0.00	SPACE			**75**	**B**	**76**	**12**	**20/1**	**2 RECS - ORCHESTRA**		**360**						0.00
							0.00	**RCP**	**20/1**	**10**	**77**	**C**	**78**	**12**	**20/1**	**3 RECS - ORCHESTRA**		**540**						0.00
							0.00	**HST CNTRL BOX (PCB)**	**20/3**	**10**	**79**	**A**	**80**	-	30/3	EXISTING LOAD								0.00
							0.00	**(1.5) HP**	-	-	**81**	**B**	**82**	-	-	-								0.00
							0.00	**-**	-	-	**83**	**C**	**84**		-	-								0.00
0	1260	0	0	0	8000	0	0.00	**TOTALS**								**TOTALS**	0	2880	600	0	0	24600	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	4.1	0.6	0.0	0.0	32.6	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	4.1	0.6	0.0	0.0	32.6	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	12.2
B	12.4
C	12.7

Panel Remarks:

BOLD INDICATES NEW

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	37.3	103.6		37.3	103.6

PANEL: **(E) L4B1 SEC.2**

Date: 2/13/2025 | By: Designer

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Checker
DRAWN BY:
Author
Plot Stamp:
2/13/2025 4:45:21 PM

PBK

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713-965-0608 P
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TX Firm: BR 1608

CIVIL
CONSULTANT NAME
T 000-000-0000

LANDSCAPE
CONSULTANT NAME
T 000-000-0000

STRUCTURAL
CONSULTANT NAME
T 000-000-0000

MEP
CONSULTANT NAME
T 000-000-0000

ACOUSTIC
CONSULTANT NAME
T 000-000-0000

THEATER
CONSULTANT NAME
T 000-000-0000

FOOD SERVICE
CONSULTANT NAME
T 000-000-0000

CODE
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School

11111 TEL GEF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-19672

CLIENT
Cy-Fair Independent School District

DATE 02/17/2025 | PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ELECTRICAL PANEL SCHEDULES

E-703

0"

1"

ELECTRICAL PANEL SCHEDULES

E-704

FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

Job: Job Name

Job No. Job Number

Mounting: **SURFACE**
Main Type: **MCB (400A)**
Neutral: **200%**

Voltage: **208Y/120V-3PH 4W**
Main Size: **400 AMPS**

AIC Rating: **10000**
Ground: **Equipment Ground**
Lugs: **SINGLE**

PANEL: **(E) L4BA SEC.2**

								ALL LOADS IN VA															
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00	EXISTING LOAD	20/1	-	**43**	**A**	**44**	-	20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	20/1	-	**45**	**B**	**46**	-	20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	20/1	-	**47**	**C**	**48**	-	20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	20/1	-	**49**	**A**	**50**	-	20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	20/1	-	**51**	**B**	**52**	-	20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	20/1	-	**53**	**C**	**54**	-	20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	20/1	-	**55**	**A**	**56**	-	20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	20/1	-	**57**	**B**	**58**	-	20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	20/1	-	**59**	**C**	**60**	-	20/1	EXISTING LOAD								0.00
							0.00	EXISTING LOAD	20/1	-	**61**	**A**	**62**	**12**	**20/1**	**PC - RECEP**						**250**		0.00
							0.00	EXISTING LOAD	20/1	-	**63**	**B**	**64**	**12**	**20/1**	**2 PC - RECP**						**500**		0.00
							0.00	SPACE			**65**	**C**	**66**			SPACE								0.00
	360						0.00	**ROOF - 2 REC**	**20/1**	**12**	**67**	**A**	**68**			SPACE								0.00
		200					0.00	**EF-H-01**	**15/1**	**12**	**69**	**B**	**70**			SPACE								0.00
							0.00	SPACE			**71**	**C**	**72**			SPACE								0.00
							0.00	SPACE			**73**	**A**	**74**			SPACE								0.00
							0.00	SPACE			**75**	**B**	**76**			SPACE								0.00
							0.00	SPACE			**77**	**C**	**78**			SPACE								0.00
							0.00	SPACE			**79**	**A**	**80**	**30/3**	10	TVSS								0.00
							0.00	SPACE			**81**	**B**	**82**	-	-	-								0.00
							0.00	SPACE			**83**	**C**	**84**	-	-	-								0.00
0	360	200	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	750	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.4	0.2	0.0	0.0	0.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.4	0.2	0.0	0.0	0.8	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	0.6
B	0.7
C	0.0

Panel Remarks:

BOLD INDICATES NEW

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	1.3	3.6		1.3	3.6

PANEL: **(E) L4BA SEC.2**

Date: 2/13/2025 By: Designer

Job: Job Name

Job No. Job Number

Mounting: **SURFACE**
Main Type: **MLO**
Neutral: **100%**

Voltage: **208Y/120V-3PH 4W**
Main Size: **100 AMPS**

AIC Rating: **10000**
Ground: **Equipment Ground**
Lugs: **SINGLE**

PANEL: **LPB2**

								ALL LOADS IN VA															
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	720						0.00	4 RECS - STORAGE	20/1	12	**1**	**A**	**2**			SPACE								0.00
	180						0.00	1 REC - STORAGE	20/1	12	**3**	**B**	**4**			SPACE								0.00
					1650		0.00	ELIH-SB-01	20/2	12	**5**	**C**	**6**			SPACE								0.00
					1650		0.00	-	-	-	**7**	**A**	**8**			SPACE								0.00
					1650		0.00	ELIH-SB-02	20/2	12	**9**	**B**	**10**			SPACE								0.00
					1650		0.00	-	-	-	**11**	**C**	**12**			SPACE								0.00
500							0.00	INTERIOR LIGHTING	20/1	12	**13**	**A**	**14**			SPACE								0.00
		1744					0.00	EF-SB-01 (1 HP)	20/1	12	**15**	**B**	**16**			SPACE								0.00
500							0.00	EXTERIOR LIGHTING	20/1	12	**17**	**C**	**18**			SPACE								0.00
							0.00	SPACE			**19**	**A**	**20**			SPACE								0.00
							0.00	SPACE			**21**	**B**	**22**			SPACE								0.00
							0.00	SPACE			**23**	**C**	**24**			SPACE								0.00
							0.00	SPACE			**25**	**A**	**26**			SPACE								0.00
							0.00	SPACE			**27**	**B**	**28**			SPACE								0.00
							0.00	SPACE			**29**	**C**	**30**			SPARE								1.00
							0.00	SPACE			**31**	**A**	**32**			SPARE								1.00
							0.00	SPACE			**33**	**B**	**34**			SPARE								1.00
							0.00	SPACE			**35**	**C**	**36**			SPARE								1.00
							0.00	SPACE			**37**	**A**	**38**			SPARE								1.00
							0.00	SPACE			**39**	**B**	**40**			SPARE								1.00
							0.00	SPACE			**41**	**C**	**42**			SPARE								1.00
1000	900	1744	0	0	6600	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	7.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
1.0	0.9	1.7	0.0	0.0	6.6	0.0	7.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
1.3	0.9	1.7	0.0	0.0	6.6	0.0	3.5	Design KVA

Phase Load	
Ph	KVA
A	2.9
B	3.6
C	3.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	17.2	47.9		14.0	38.8

PANEL: **LPB2**

Date: 2/13/2025 By: Designer

Job: Job Name

Job No. Job Number

Mounting: **SURFACE**
Main Type: **MLO**
Neutral: **100%**

Voltage: **480Y/277V-3PH 4W**
Main Size: **225 AMPS**

AIC Rating: **10000**
Ground: **Equipment Ground**
Lugs: **SINGLE**

PANEL: **(E) HCP**

								ALL LOADS IN VA															
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00	EXISTING LOAD	20/1		**1**	**A**	**2**	**4**	**70/3**	**SHWP-01**			**7474**					0.00
							0.00	SPACE			**3**	**B**	**4**	-	-	-			**7474**					0.00
							0.00	SPACE			**5**	**C**	**6**	-	-	-			**7474**					0.00
							0.00	SPACE			**7**	**A**	**8**	**4**	**70/3**	**SHWP-02**			**7474**					0.00
							0.00	SPACE			**9**	**B**	**10**	-	-	-			**7474**					0.00
							0.00	SPACE			**11**	**C**	**12**	-	-	-			**7474**					0.00
							0.00	SPACE			**13**	**A**	**14**	**RISER**	**50/3**	**NEW TLCP**	**0**	**60**	**256**	**0**	**0**	**4933**	**0**	0.00
							0.00	EXISTING LOAD	20/3		**15**	**B**	**16**	-	-	-	**0**	**60**	**256**	**0**	**0**	**4933**	**0**	0.00
							0.00	-	-		**17**	**C**	**18**	-	-	-	**0**	**60**	**256**	**0**	**0**	**4933**	**0**	0.00
							0.00	-	-		**19**	**A**	**20**	**12**	**20/3**	**ACCU-01**						**4961**		0.00
							0.00	EXISTING LOAD	20/1		**21**	**B**	**22**	-	-	-						**4961**		0.00
							0.00	SPACE			**23**	**C**	**24**	-	-	-						**4961**		0.00
							0.00	SPACE			**25**	**A**	**26**	**12**	**20/3**	**FCU-01**						**1441**		0.00
							0.00	SPACE			**27**	**B**	**28**	-	-	-						**1441**		0.00
							0.00	SPACE			**29**	**C**	**30**	-	-	-						**1441**		0.00
							0.00	SPACE			**31**	**A**	**32**	**4**	**70/3**	**SHWP-03**			**7474**					0.00
							0.00	SPACE			**33**	**B**	**34**	-	-	-			**7474**					0.00
							0.00	SPACE			**35**	**C**	**36**	-	-	-			**7474**					0.00
							0.00	SPACE			**37**	**A**	**38**											0.00
							0.00	SPACE			**39**	**B**	**40**											0.00
							0.00	SPACE			**41**	**C**	**42**											0.00
0	0	0	0	0	0	0	0	**TOTALS**								**TOTALS**	0	180	68031	0	19255	14800	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.2	68.0	0.0	19.2	14.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.2	68.0	0.0	19.2	14.8	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	34.1
B	34.1
C	34.1

Panel Remarks:

BOLD INDICATES NEW

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	102.2	122.9		102.2	122.9

PANEL: **(E) HCP**

Date: 2/13/2025 By: Designer

Job: Job Name

Job No. Job Number

Mounting: **SURFACE**
Main Type: **MCB (100A)**
Neutral: **100%**

Voltage: **208Y/120V-3PH 4W**
Main Size: **100 AMPS**

AIC Rating: **10000**
Ground: **Equipment Ground**
Lugs: **SINGLE**

PANEL: **LCP**

								ALL LOADS IN VA															
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1352		0.00	BOILER B-01	20/2	12	**1**	**A**	**2**			SPACE								0.00
					1352		0.00	-	-	-	**3**	**B**	**4**			SPACE								0.00
					1352		0.00	BOILER B-02	20/2	12	**5**	**C**	**6**			SPACE								0.00
					1352		0.00	-	-	-	**7**	**A**	**8**			SPACE								0.00
					1352		0.00	BOILER B-03	20/2	12	**9**	**B**	**10**			SPACE								0.00
					1352		0.00	-	-	-	**11**	**C**	**12**			SPACE								0.00
					865		0.00	BOILER CIRC PUMP	20/2	12	**13**	**A**	**14**			SPACE								0.00
					865		0.00	(1 HP)	-	-	**15**	**B**	**16**			SPACE								0.00
					865		0.00	BOILER CIRC PUMP	20/2	12	**17**	**C**	**18**			SPACE								0.00
					865		0.00	(1 HP)	-	-	**19**	**A**	**20**			SPACE								0.00
					865		0.00	BOILER CIRC PUMP	20/2	12	**21**	**B**	**22**			SPACE								0.00
					865		0.00	(1 HP)	-	-	**23**	**C**	**24**			SPACE								0.00
		768					0.00	EF-01 (3/4 HP)	20/1	12	**25**	**A**	**26**			SPACE								0.00
	180						0.00	EXTERIOR REC	20/1	12	**27**	**B**	**28**			SPACE								0.00
					500		0.00	BOILER - CNTRLS	20/1	12	**29**	**C**	**30**			SPACE								0.00
					500		0.00	BOILER - CNTRLS	20/1	12	**31**	**A**	**32**			SPACE								0.00
					500		0.00	BOILER - CNTRLS	20/1	12	**33**	**B**	**34**			SPACE								0.00
							0.00	SPACE			**35**	**C**	**36**			SPACE								0.00
							0.00	SPACE			**37**	**A**	**38**			SPACE								0.00
							0.00	SPACE			**39**	**B**	**40**			SPACE								0.00
							0.00	SPACE			**41**	**C**	**42**			SPACE								0.00
0	180	768	0	0	14800	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.2	0.8	0.0	0.0	14.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.2	0.8	0.0	0.0	14.8	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	5.7
B	5.1
C	4.9

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	15.7	43.7		15.7	43.7

PANEL: **LCP**

Date: 2/13/2025 By: Designer

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/E23_220023_CFISD_Arnold MS.rvt

CHECKED BY:
Checker
DRAWN BY:
Author
Plot Stamp:
2/13/2025 4:45:31 PM

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
CONSULTANT NAME
T.000-000-0000

LANDSCAPE
CONSULTANT NAME
T.000-000-0000

STRUCTURAL
CONSULTANT NAME
T.000-000-0000

MEP
CONSULTANT NAME
T.000-000-0000

ACOUSTIC
CONSULTANT NAME
T.000-000-0000

THEATER
CONSULTANT NAME
T.000-000-0000

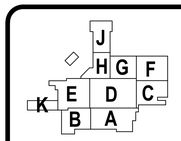
FOOD SERVICE
CONSULTANT NAME
T.000-000-0000

CODE
CONSULTANT NAME
T.000-000-0000

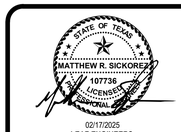
LEAF ENGINEERS

Arnold Middle School
11111 TEL GF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

ELECTRICAL PANEL SCHEDULES

E-704

0"
1"

PLUMBING COVER SHEET
P-000
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

PLUMBING ABBREVIATION SCHEDULE

(A)	ITEM NOTED TO BE ABANDONED	KW	KILOWATTS
(D)	ITEM NOTED TO BE DEMOLISHED	L	LAVATORY
(E)	EXISTING ITEM	MAP	MASTER ALARM PANEL
(N)	NEW ITEM	MECH	MECHANICAL
(R)	ITEM NOTED TO BE RELOCATED	MH	MANHOLE
AAP	AREA ALARM PANEL	MS	MOP SINK
AAV	AUTOMATIC AIR VENT	NC	NORMALLY CLOSED
AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AP	ACCESS PANEL	NO	NORMALLY OPEN
BFF	BELOW FINISHED FLOOR	OF / CI	OWNER FURNISHED / CONTRACTOR INSTALLED
BFPV	BACKFLOW PREVENTER	OF / OI	OWNER FURNISHED / OWNER INSTALLED
BOB	BOTTOM OF BEAM	OD	OVERFLOW DRAIN
BOP	BOTTOM OF PIPE	OW	OIL WASTE
BTUH	BRITISH THERMAL UNITS PER HOUR	PIV	POST INDICATOR VALVE
C / C	CUT AND CAP	PRV	PRESSURE REDUCING VALVE
CFH	CUBIC FEET PER HOUR	RD	ROOF DRAIN
CFS	CUBIC FEET PER SECOND	RE:	REFER TO
CI	CAST IRON	RIC	ROUGH-IN AND CONNECT
CLG	CEILING	RO	REVERSE OSMOSIS
CO	CLEANOUT	RP BFPV	REDUCED PRESSURE BACKFLOW PREVENTER
CONN	CONNECTION	RPM	REVOLUTIONS PER MINUTE
CONT	CONTINUATION	RVB	REFRIGERATOR VALVE BOX
DF	DRINKING FOUNTAIN	SD	STORM DRAIN
DPV	DRY PIPE VALVE	SF	SQUARE FEET
DWG	DRAWING	SS	SERVICE (MOP) SINK
EA	EACH	SK	SINK
EDF	ELECTRIC DRINKING FOUNTAIN	TMV	THERMOSTATIC MIXING VALVE
FCO	FLOOR CLEANOUT	TOP	TOP OF PIPE
FD	FLOOR DRAIN	TP	TRAP PRIMER
FDV	FIRE DEPARTMENT VALVE	TYP	TYPICAL
FF	FINISHED FLOOR	U	URINAL
FHC	FIRE HOSE CABINET	U/F	UNDERFLOOR
FL	FLOW LINE	U/S	UNDERSLAB
FS	FLOOR SINK	VB	VACUUM BREAKER
FT	FEET	VCT	VITRIFIED CLAY TILE
FU	FIXTURE UNIT	VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR	WC	WATER CLOSET
GPH	GALLONS PER HOUR	WCO	WALL CLEANOUT
GPM	GALLONS PER MINUTE	WH	WALL HYDRANT
HB	HOSE BIBB	WMB	WASHING MACHINE BOX
HP	HORSEPOWER	YH	YARD HYDRANT
IE	INVERT ELEVATION	ZV	ZONE VALVE

NOTES:

1. NOT ALL ABBREVIATIONS MAY BE USED ON THESE DRAWINGS.

PLUMBING FIXTURE CONNECTION SCHEDULE

DESCRIPTION	WASTE	TRAP	VENT	DFU	BRANCH CONN		FIXTURE CONN		FIXTURE UNITS		REMARKS
					CW	HW	CW	HW	CW	HW	
WATER CLOSET (FV)	4"	-	2"	4	1-1/4"	-	1"	-	10.00	-	INTEGRAL TRAP
WATER CLOSET (FT)	4"	-	2"	3	3/4"	-	1/2"	-	2.50	-	INTEGRAL TRAP
LAVATORY	2"	1-1/4"	2"	1	3/4"	3/4"	1/2"	1/2"	0.75	0.75	PROVIDE TMV
SHOWER	2"	2"	2"	2	3/4"	3/4"	1/2"	1/2"	1.50	1.50	PROVIDE TMV
BATH TUB	2"	1-1/2"	2"	3	3/4"	3/4"	1/2"	1/2"	3.00	3.00	PROVIDE TMV
SINK	2"	1-1/2"	2"	2	3/4"	3/4"	1/2"	1/2"	1.13	1.13	PROVIDE TMV
WASHING MACHINE	2"	2"	2"	3	3/4"	3/4"	1/2"	1/2"	3.00	3.00	-
SERVICE SINK	2"	1-1/2"	2"	2	3/4"	3/4"	1/2"	1/2"	2.25	2.25	PROVIDE TMV
HOSE BIBB	-	-	-	-	3/4"	-	3/4"	-	2.50	-	-
FLOOR SINK	2"	2"	2"	2	-	-	-	-	-	-	RE: DRAWINGS FOR SIZE
FLOOR DRAIN	3"	3"	2"	4	-	-	-	-	-	-	RE: DRAWINGS FOR SIZE
ICE MACHINE	-	-	-	-	3/4"	-	1/2"	-	1.00	-	-

NOTES:

1. ROUGH-IN SUPPLY WASTE AND VENT PIPE SIZES INDICATED ABOVE ARE MINIMUM SIZES SHOWN FOR ROUGH-IN ONLY.
2. COORDINATE WITH PLUMBING FIXTURE MANUFACTURER'S INSTALLATION DRAWINGS FOR PROPER AND CORRECT INSTALLATION OF ALL FIXTURES.
3. ALL PLUMBING FIXTURES SHALL BE COMPLETELY ROUGHED-IN BY THE PLUMBING CONTRACTOR AND SHALL MEET ALL CODES HAVING JURISDICTION.
4. ALL FIXTURES SHALL BE COMMERCIAL GRADE UNLESS OTHERWISE NOTED.
5. PROVIDE AND INSTALL A WATER HAMMER ARRESTOR IN PIPING TO ALL FIXTURES AND/OR FIXTURE BANKS.

IPC TABLE FOR HANGER SPACING MINIMUM REQUIREMENTS

PIPING MATERAL	MAX HORIZONTAL SPACING (ft)	MAX VERTICAL SPACING (ft)
ABS PIPE	4	10[b]
ALUMINUM TUBING	10	15
BRASS PIPE	10	10
CAST-IRON PIPE	5[a]	15
COPPER OR COPPER-ALLOY PIPE	12	10
COPPER OR COPPER-ALLOY TUBING, 1-1/4" DIAMETER AND SMALLER	6	10
COPPER OR COPPER-ALLOY TUBING, 1-1/2" DIAMETER AND LARGER	10	10
CROSS-LINKED POLYETHYLENE (PEX) PIPE	2.67 (32in)	10[b]
CROSS-LINKED POLYETHYLENE / ALUMINUM / CROSS-LINKED POLYETHYLENE (PEX-AL-PEX) PIPE	2.67 (32in)	4
CPVC PIPE OR TUBING, 1" AND SMALLER	3	10[b]
CPVC PIPE OR TUBING, 1-1/4" AND LARGER	4	10[b]
STEEL PIPE	12	15
LEAD PIPE	CONTINUOUS	4
POLYETHYLENE / ALUMINUM / POLYETHYLENE (PE-AL-PE) PIPE	2.67 (32in)	4
POLYETHYLENE OF RAISED TEMPERATURE (PE-RT) PIPE	2.67 (32in)	10[b]
POLYPROPYLENE (PP) PIPE OR TUBING, 1" AND SMALLER	2.67 (32in)	10[b]
POLYPROPYLENE (PP) PIPE OR TUBING, 1-1/4" AND LARGER	4	10[b]
PVC PIPE	4	10[b]
STAINLESS STEEL DRAINAGE SYSTEMS	10	10[b]

NOTES:

FOR SI: 1 in = 25.4 mm, 1 ft = 304.8 mm

a. THE MAXIMUM HORIZONTAL SPACING OF CAST-IRON PIPE HANGERS SHALL BE INCREASED TO 10' WHERE 10-FOOT LENGTHS OF PIPE ARE INSTALLED.

b. MIDSTORY GUIDE FOR SIZES 2" AND SMALLER.

PLUMBING SYMBOLS LEGEND

DRAWINGS	DETAILS	ABV.	DESCRIPTION
	AV	AV	ACID VENT
	AW	AW	ACID WASTE
	CA	CA	COMPRESSED AIR
	CW	CW	COLD WATER
	(D)	(D)	DEMOLISHED PIPING OR EQUIPMENT
	D	D	CONDENSATE
	DSP	DSP	DRY SPRINKLER
	(E)	(E)	EXISTING PIPING OR EQUIPMENT
	F	F	FIRE
	G	G	NATURAL GAS
	GW	GW	GREASE WASTE
	HW	HW	HOT WATER
	HWR	HWR	HOT WATER RETURN
	OD	OD	OVERFLOW DRAIN
	SD	SD	STORM DRAIN
	SP	SP	SPRINKLER
	SS	SS	SANITARY SEWER
	V	V	VENT
			DIRECTION OF FLOW
			DROP IN PIPE
			RISE IN PIPE
			GATE VALVE
			BALL VALVE
			CHECK VALVE
			SUPERVISED VALVE WITH FLOW SWITCH
			PLUG VALVE / GAS COCK
			BUTTERFLY VALVE
			HOT WATER BALANCING VALVE
			PIPE UNION
			PRESSURE CONTROL VALVE
			3-WAY VALVE
			SOLENOID VALVE
			FLOW SWITCH
			PRESSURE GAUGE WITH GAUGE COCK
			THERMOMETER
		RD / ORD	ROOF DRAIN / OVERFLOW DRAIN
		FD	FLOOR DRAIN
		FS	FLOOR SINK
			T & P RELIEF VALVE
			STRAINER
		CO	END OF LINE CLEANOUT
		FCO	FLOOR CLEANOUT
		WCO	WALL CLEANOUT
			CAP
			FLEXIBLE CONNECTION
			NEW CONNECTION TO EXISTING PIPING

NOTES:

1. NOT ALL SYMBOLS MAY BE USED ON THESE DRAWINGS.

PLUMBING PIPE MATERIAL SCHEDULE

PIPING SYSTEM	BELOW GRADE	ABOVE GRADE
STORM WASTE	SCH 40 PVC	CAST IRON
SANITARY WASTE	SCH 40 PVC	CAST IRON
DOMESTIC WATER	TYPE 'K' COPPER	TYPE 'L' COPPER
NATURAL GAS	POLYETHYLENE W/ SLEEVE UNDER SLAB	SCH 40 BLACK STEEL
CHEMICAL WASTE	SCH 40 PP	PVDF RATED FOR RETURN AIR PLENUMS
FIRE PROTECTION	SCH 40 BLACK STEEL	SCH 40 BLACK STEEL
COMPRESSED AIR	TYPE 'K' COPPER	SCH 40 GALVANIZED STEEL

DRAWING REFERENCE KEY

REFER TO DETAIL NUMBER
RE:01/P-401
SHEET NUMBER

WATER HAMMER ARRESTOR SCHEDULE

PIPE SIZE	CROSS FIXTURE UNITS	PDI STD.
1/2"	1-11	"A"
3/4"	12-32	"B"
1"	33-60	"C"
1-1/4"	61-113	"D"
1-1/2"	114-154	"E"
2"	155-330	"F"

NOTES:

1. ASSE 1010 WATER HAMMER ARRESTORS SHALL BE PROVIDED TO ALL FIXTURE RUNOUT AND SHALL BE SIZED ACCORDING TO LOCAL PLUMBING CODE (AHJ) & PDI. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER MANUFACTURER'S REQUIREMENTS. THE DEVICE SHALL HAVE LIFETIME WARRANTY AND BE INSTALLED WITHOUT REQUIRING ACCESS DOORS AND PANELS.

HORIZONTAL DRAIN PIPE SLOPE (IPC)

PIPE SIZE	MINIMUM SLOPE
STORM WASTE DRAINAGE	1/8" PER FOOT (1%)
SANITARY WASTE DRAINAGE 2-1/2" OR SMALLER	1/4" PER FOOT (2%)
SANITARY WASTE DRAINAGE 3" TO 6"	1/8" PER FOOT (1%)
SANITARY WASTE DRAINAGE 8" OR LARGER	1/16" PER FOOT (0.5%)
GREASE WASTE DRAINAGE	1/4" PER FOOT (2%)

NOTES:

1. SANITARY WASTE DRAINAGE SLOPES SHALL APPLY TO ANY NON-SPECIFIED DRAINAGE PIPING SYSTEMS (E.G., CHEMICAL WASTE, ETC.) OR AS PER CODE REQUIREMENTS.

PROJECT GENERAL NOTES

A. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LOCAL CODES AS WELL AS ALL LOCAL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.

B. THE PLUMBING WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH THE PLUMBING SPECIFICATIONS. IN CASE OF CONFLICTS BETWEEN THE PLUMBING DRAWINGS AND THE PLUMBING SPECIFICATIONS, THE MORE EXPENSIVE OF THE TWO SHALL APPLY.

C. ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH THE INSTALLATION.

D. INVERT ELEVATIONS AND EXACT LOCATIONS OF ALL IMPACTED EXISTING UTILITIES SHALL BE CHECKED BEFORE PROCEEDING WITH NEW WORK.

E. NO CHANGES ARE TO BE MADE IN PLUMBING LAYOUT WITHOUT WRITTEN PERMISSION BY THE ARCHITECT OR ENGINEER.

F. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.

G. ROUGH-IN DIMENSIONS OF ALL TOILET FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR. ROUGH-IN MOUNTING HEIGHTS OF ALL RESTROOM/SHOWER FIXTURES MUST BE COORDINATED WITH THE ARCHITECTURAL MOUNTING HEIGHTS GUIDELINES PRIOR TO INSTALLATION.

H. PROVIDE SHUT-OFF VALVES FOR WATER HEATER BRANCH. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE IN CONTACT.

I. PROVIDE SHUT-OFF VALVES AT EACH FIXTURE AND AT EACH FLOOR (IF FIXTURES ARE STACKED) ON HOT AND COLD WATER SUPPLY PIPES. PROVIDE HOT WATER RETURN BALANCING VALVE WITH SHUT-OFF VALVE ON HOT WATER RETURN PIPES AT THE END OF A LOOPED HOT WATER BRANCH. LOCATE HOT WATER SHUT-OFF VALVE(S) TO NOT IMPEDE THE HOT WATER RETURN SYSTEM.

J. ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.

K. INSTALL ALL REQUIRED CLEANOUTS TO CLEAR EQUIPMENT AND FIXTURES.

L. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION ON ALL PARTS AND LABOR.

M. PITCH ALL WASTE AND SOIL PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN AS REQUIRED PER THE APPLICABLE LOCAL CODES. PITCH ALL GREASE WASTE PIPING AT A MINIMUM OF 1/4" PER FOOT AS REQUIRED PER THE APPLICABLE LOCAL CODES.

N. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. WHERE PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL.

O. PROVIDE CONDENSATE DRAIN FROM ROOF MOUNTED EQUIPMENT TO OPEN SITE DRAIN OR AS SHOWN ON DRAWINGS.

P. ALL PIPING MATERIAL SHALL BE OF DOMESTIC MANUFACTURE AND SHALL COMPLY WITH THE BUY AMERICAN ACT.

PLUMBING TESTING NOTES

1. PIPE COVER AND BACKFILLING:
   A. AFTER HYDROSTATIC TEST, EVENLY BACKFILL ENTIRE TRENCH WIDTH BY HAND PLACING BACKFILL MATERIAL AND HAND TAMPING IN FOUR (4) INCHES COMPACTED LAYERS TO TWELVE (12) INCHES MINIMUM COVER OVER TOP OF JACKET. COMPACT TO 95 PERCENT MAXIMUM DENSITY.
   B. EVENLY AND CONTINUOUSLY BACKFILL REMAINING TRENCH DEPTH IN UNIFORM LAYERS WITH BACKFILL MATERIAL.
   C. DO NOT USE WHEELED OR TRACKED VEHICLES FOR TAMPING.
2. PRESSURE TEST ALL DOMESTIC WATER PIPING. AFTER INSTALLATION AND PRIOR TO BACKFILL OR COVER-UP, RINSE PIPING SYSTEM OF PARTICULATE CONTAMINANTS, CAP AND SUBJECT TO STATIC WATER PRESSURE OF 125 PSIG FOR FOUR (4) HOURS. REPAIR LEAKS AND DEFECTS AND RE-TEST ANY PORTION OF PIPING SYSTEM THAT FAILS. PROVIDE WRITTEN TEST REPORT INCLUDING DATE AND TIME OF TEST, PASS OR FAIL INDICATION, SUMMARY OF REMEDIAL WORK REQUIRED AND DATE AND TIME OF EACH RE-TEST.
3. PRIOR TO COVER UP, WATER PIPE, SANITARY PIPE, AND GAS PIPING SHALL BE PRESSURE TESTED. TESTS SHALL BE WITNESSED BY CONSULTANT AND OWNER. NOTIFY OWNER 48 HOURS PRIOR TO TEST. TEST SHALL BE WITNESSED BY CLIENT PLUMBING TECHNICIAN.
4. UPON COMPLETION OF THE SANITARY PIPING SYSTEM, THE CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER TO OBSERVE A SMOKE TEST OF THE SYSTEM. SMOKE TESTING SHALL BE PERFORMED ON SANITARY PIPING SYSTEM TWICE DURING CONSTRUCTION.
5. ALL WASTE PIPING SYSTEMS:
   A. WATER TEST SHALL BE APPLIED TO THESE DRAINAGE SYSTEMS EITHER IN THEIR ENTIRETY OR IN SECTIONS AS REQUIRED. AFTER ROUGH PIPING HAS BEEN INSTALLED. IF THE SYSTEM IS TESTED IN SECTIONS, EACH OPENING SHALL BE TIGHTLY CLOSED EXCEPT THE HIGHEST OPENING IN THE SECTION UNDER TEST. ALL SECTIONS SHALL BE TESTED WITH A MINIMUM OF 10 FEET HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS AT LEAST THE UPPER 10 FEET OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT NO JOINT OF PIPING IN THE BUILDING EXCEPT THE UPPERMOST 10 FEET OF THE SYSTEM SHALL BE SUBMITTED TO A TEST OF LESS THAN 10 FOOT OF HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM FOR AT LEAST 30 MINUTES BEFORE INSPECTION STARTS; THE SYSTEM SHALL THEN BE MADE TIGHT AT ALL POINTS.
   B. ANY POINTS OF THE DRAINAGE SYSTEMS TO BE TESTED WITH AIR INSTEAD OF WATER SHALL BE MADE BY ATTACHING AN AIR COMPRESSOR TESTING APPARATUS TO ANY SUITABLE OPENING AND AFTER CLOSING ALL OTHER INLETS OR OUTLETS, FORCING AIR INTO THE SYSTEM UNTIL THERE IS A MINIMUM GAUGE PRESSURE OF 5 PSI. THIS PRESSURE SHALL BE HELD WITHOUT THE INTRODUCTION OF ADDITIONAL AIR FOR A PERIOD OF AT LEAST 30 MINUTES.
   C. EXTERIOR CONNECTIONS SHALL BE TESTED AS PART OF THE INTERIOR SYSTEMS.
6. ADDITIONAL TESTS:
   A. PROVIDE ALL ADDITIONAL TESTS SUCH AS SMOKE OR PRESSURE TESTS AS REQUIRED BY THE REGULATIONS OR AS DIRECTED BY AUTHORITIES MAKING THE INSPECTION. CONTRACTOR SHALL COORDINATE SAID ADDITIONAL TESTS WITH ANY THIRD-PARTY TESTING ENTITIES AS REQUIRED.
   B. PROVIDE FOR ANY REPEATED TEST AS DIRECTED BY THE OWNER'S REPRESENTATIVE, TO MAKE ALL SYSTEMS TIGHT AS REQUIRED.
   C. VISUAL INSPECTIONS OF JOINTS, VALVES, ETC. SHALL BE MADE AS DIRECTED BY THE ENGINEER.
   D. PRESSURE TEST NATURAL GAS PIPING IN ACCORDANCE WITH NFPA 54. PRESSURE TEST PRIOR TO BACKFILL, MINIMUM 50 PSI FOR 24 HOURS.

FIRE PROTECTION GENERAL NOTES

A. ALL AREAS OF THE BUILDING(S) SHALL BE FULLY SPRINKLERED IN ACCORDANCE WITH SPECIFICATIONS AND CODE REQUIREMENTS.

B. SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED FIRE PROTECTION CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, JURISDICTIONAL, GOVERNMENTAL AGENCIES AND NFPA 13 (LATEST ADDITION). SPRINKLER SYSTEM MUST ALSO BE APPROVED BY OWNER AND OWNER'S FIRE INSURANCE UNDERWRITER.

C. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR ENGINEER, OWNER, OWNER'S FIRE INSURANCE UNDERWRITER, AND FIRE MARSHALL'S APPROVAL.

D. THE LOCATION OF FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FIRE PROTECTION COVERAGE OF ALL AREAS. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.

E. HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. PROVIDE PENDENT AND/OR UPRIGHT TYPE SPRINKLER HEAD WHERE REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT THE LOCATIONS OF THE SPRINKLER HEADS PRIOR TO INSTALLATION. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, HVAC DIFFUSERS, RETURNS, ETC.

F. CONTRACTOR TO DESIGN SPRINKLER SYSTEM AS REQUIRED TO ACCOMODATE NEW FIXTURES, PARTITIONS, SOFFITS, FURR DOWNS, CEILING HEIGHTS, ETC.

G. FLOW AND TAMPER SWITCHES ARE TO BE PROVIDED ON THE FIRE SPRINKLER SYSTEM. ALL ELECTRICAL WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

H. REFER TO ARCHITECT FOR SPRINKLER SYSTEM DESIGN OCCUPANCY.

PBK

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FOOD SERVICE
CONSULTANT NAME
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OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School
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ISSUE FOR PROPOSAL

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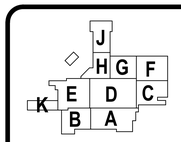
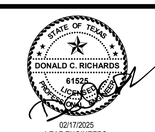


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

PLUMBING COVER SHEET

P-000

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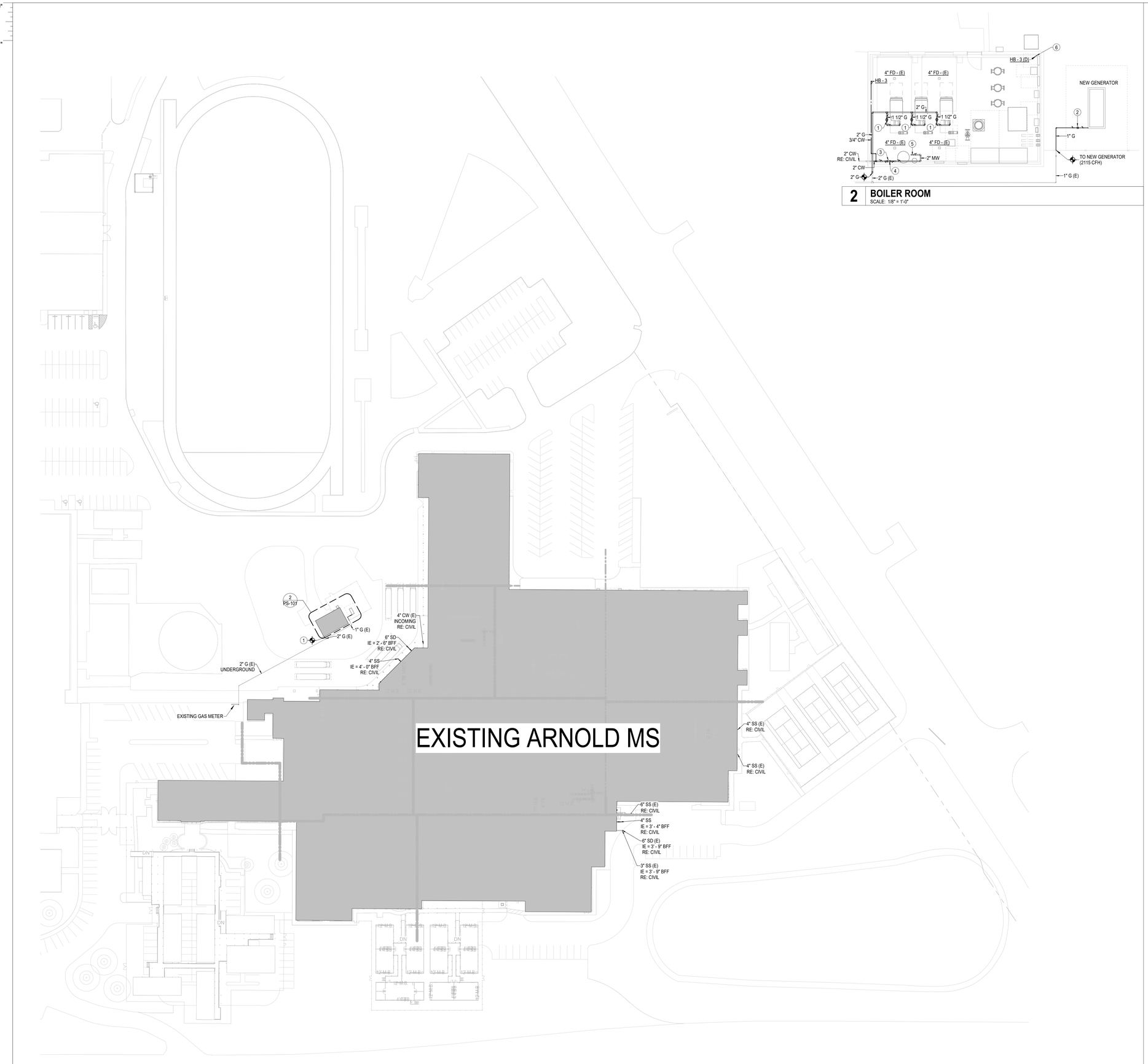

1 **PLUMBING SITE PLAN - COMPOSITE**
SCALE: 1" = 50'-0"

2 **BOILER ROOM**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 PROVIDE NEW GAS PIPING WITH NEW GAS REGULATORS AND SHUTOFF VALVES FOR THE NEW BOILERS. PROVIDE REGULATOR AND BLOCK VALVE ON EACH SIDE. VENT REGULATOR TO EXTERIOR AS REQUIRED. PROVIDE SHUT-OFF VALVE FOR GAS MAIN PRIOR TO SERVING EQUIPMENT. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL.

2 PROVIDE REGULATOR (STEP DOWN FROM 5 PSI TO 7"-14" W.C.) W/ SHUT-OFF VALVE ON EACH SIDE. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL.

3 2" COLD WATER DOWN TO SERVE RPZ BACKFLOW PREVENTER, PROVIDE HOSE BIBB (HB-3) W/ SHUT-OFF VALVE DOWNSTREAM OF BACKFLOW PREVENTER. EXTEND 2" MAKE-UP WATER TO SERVE MECHANICAL EQUIPMENT.

4 DEMO AND REPLACE EXISTING BACKFLOW PREVENTER AND EXISTING MAKE-UP WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

5 MAKE-UP WATER CONNECTION TO MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR CONTINUATION AND EXACT INLET SIZE REQUIREMENTS.

6 DEMO AND REMOVE EXISTING HOSE BIBB AND PROVIDE A NEW COLD WATER LINE TO SERVE THE NEW HOSE BIBB AS SHOWN ON THE PLANS.

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LEAF ENGINEERS

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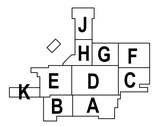

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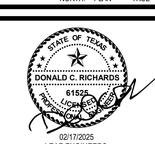

02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
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PLUMBING SITE PLAN - COMPOSITE

PS-101

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0"
1"

1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA A
PUD-101A
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYNOTES - PLUMBING PLAN

1 SAW-CUT EXISTING SLAB AS INDICATED ON PLAN. REFER TO PLUMBING GENERAL NOTES FOR PROCEDURE. CONTRACTOR SHALL VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK. RE:S-330 FOR STRUCTURAL DEMO DETAILS.

2 DEMO AND REMOVE EXISTING ACID VENT LINE AS SHOWN.

3 RE:SD-101A FOR STRUCTURAL DEMO PLANS.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

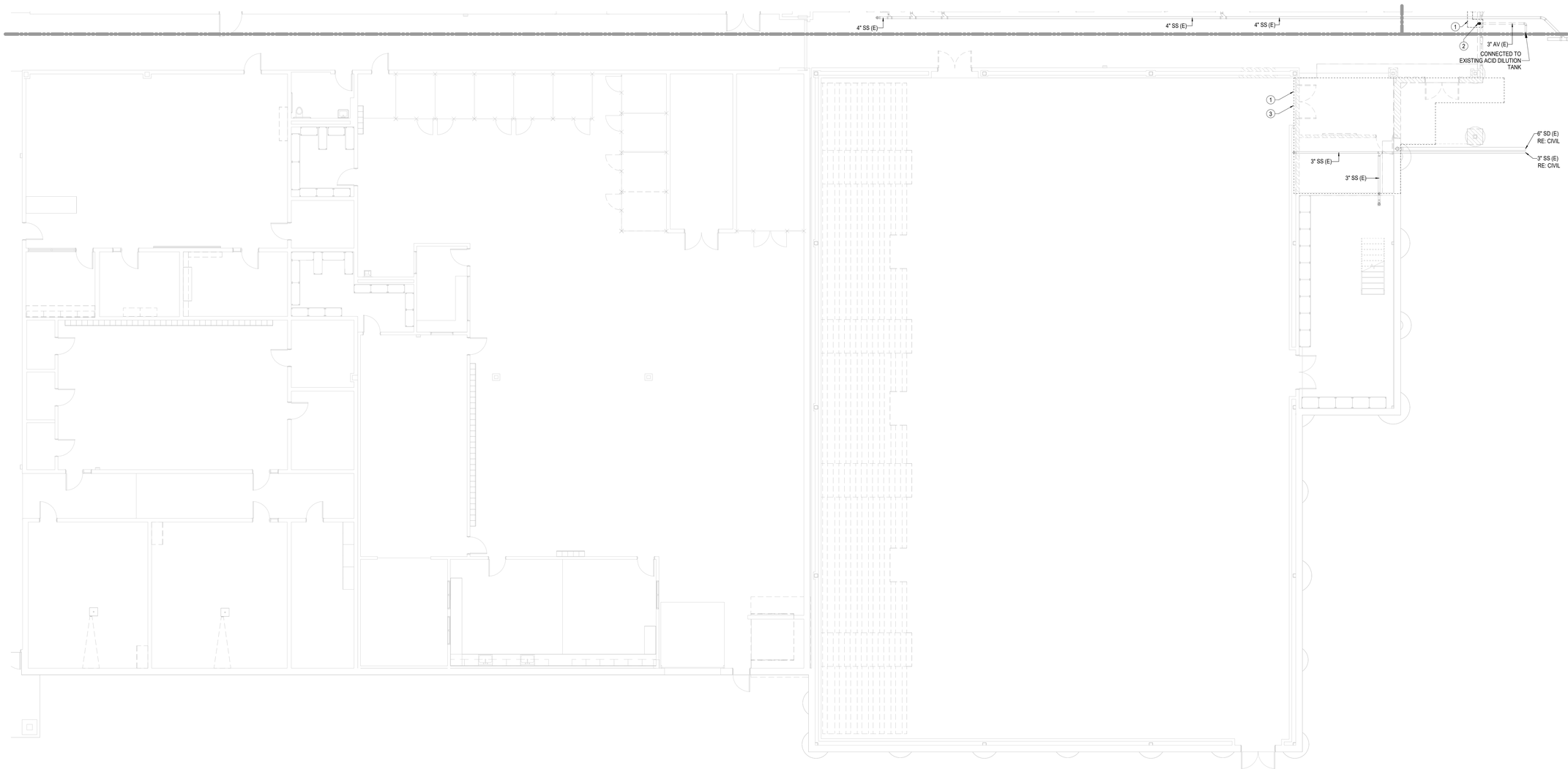
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA A
SCALE: 1/8" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.
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11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
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TX Firm: BR 1608

CIVIL
CONSULTANT NAME
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LANDSCAPE
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FIRE/EGRESS
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FOOD SERVICE
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OTHER
CONSULTANT NAME
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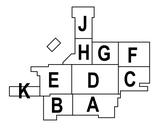
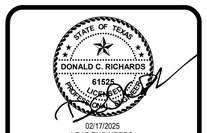
LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA A

PUD-101A

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt
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Plot Stamp: 2/12/2025 6:00:36 PM

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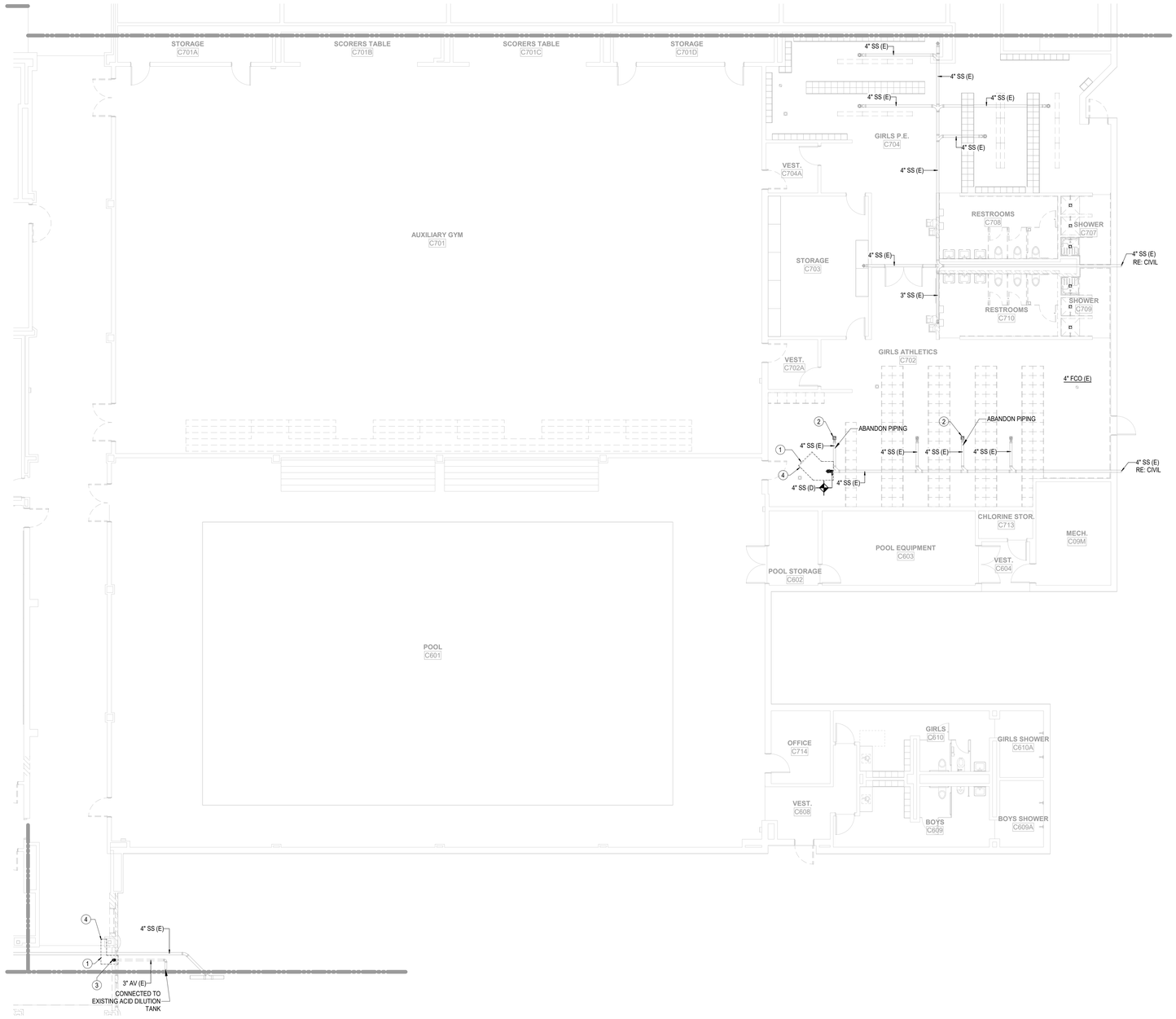

1 **1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA C**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 SAW-CUT EXISTING SLAB AS INDICATED ON PLAN. REFER TO PLUMBING GENERAL NOTES FOR PROCEDURE. CONTRACTOR SHALL VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK. RE:S-330 FOR STRUCTURAL DEMO DETAILS.

2 DEMO AND REMOVE FLOOR DRAIN. CAP AND SEAL THE PLUMBING CONNECTION AND PATCH THE SLAB TO MATCH EXISTING CONDITION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

3 DEMO AND REMOVE EXISTING ACID VENT LINE AS SHOWN.

4 RE:SD-101C FOR STRUCTURAL DEMO PLANS.

PBK

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TX Firm: BR 1608

CIVIL
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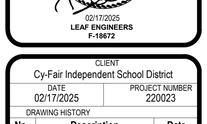
LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
J H G F
K E D C
B A
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA C

PUD-101C

ISSUE FOR PROPOSAL

1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA C
PUD-101C
FOR BLUEBEAM LABELING/OCR:

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt
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DRAWN BY: Author
Plot Stamp: 2/12/2025 6:00:38 PM

0"
1"

KEYNOTES - PLUMBING PLAN

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2 RE:SD-101D FOR STRUCTURAL DEMO PLANS.

GENERAL NOTES - PLUMBING PLAN

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F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

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GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

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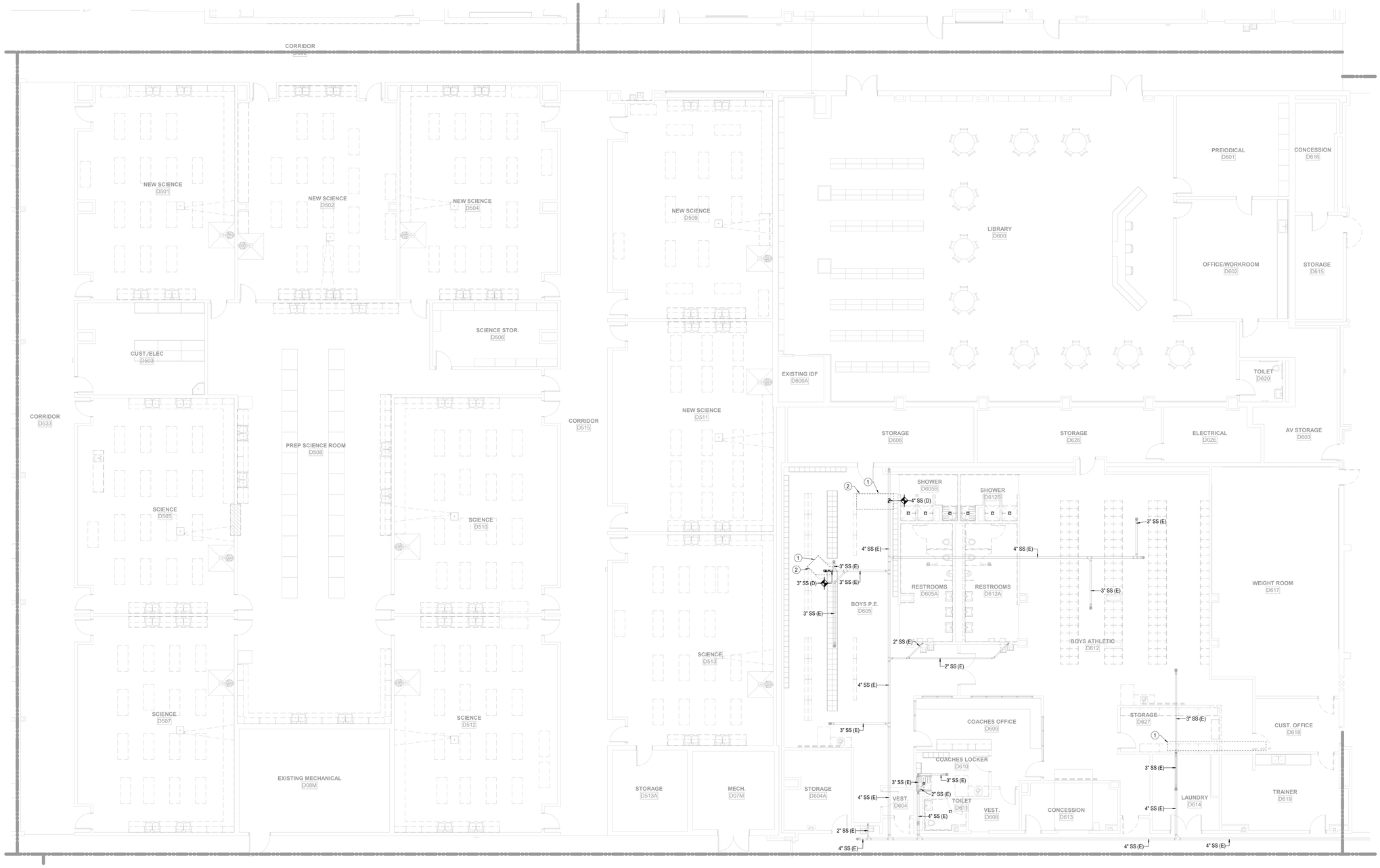

1 1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA D
SCALE: 1/8" = 1'-0"

PBK

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TX Firm: BR 1608

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STRUCTURAL
CONSULTANT NAME
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MEP
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ACOUSTIC
CONSULTANT NAME
T.000-000-0000
FIRE/EVAC
CONSULTANT NAME
T.000-000-0000
FOOD SERVICE
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OTHER
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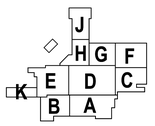
LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA D

PUD-101D

ISSUE FOR PROPOSAL

1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA D
PUD-101D
FOR BLUEBEAM LABELING OCR:

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt

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Author
Plot Stamp:
2/12/2025 6:00:41 PM

0"
1"

1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA H
PUD-101H
FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

1 **1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA H**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

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E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

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I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 DEMO AND REMOVE EXISTING STORM DRAIN LINE AS SHOWN.

2 DEMO AND REMOVE EXISTING COLD WATER LINE AS SHOWN.

3 DEMO AND REMOVE EXISTING SANITARY WASTE PIPING AS SHOWN.

PBK

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TX Firm: BR 1608

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LANDSCAPE
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STRUCTURAL
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MEP
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ACOUSTIC
CONSULTANT NAME
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THEATER
CONSULTANT NAME
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FOOD SERVICE
CONSULTANT NAME
T 000-000-0000

OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING UNDERFLOOR DEMO PLAN - AREA H

PUD-101H

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt

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Author
Plot Stamp:
2/12/2025 6:00:45 PM

0"
1"

1ST LEVEL PLUMBING DEMO PLAN - AREA A
PD-101A
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYNOTES - PLUMBING PLAN

1 DEMO AND REMOVE EXISTING PIPE PIECE TO TAP INTO EXISTING DOMESTIC WATER LINE. REFER TO NEW CONSTRUCTION PLUMBING PLAN FOR THE NEW DOMESTIC WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

2 DEMO AND REMOVE EXISTING PLUMBING FIXTURES AND PIPING. CAP OR PLUG THE EXISTING CONNECTION AFTER DEMOLISHING THE PIPE AS SHOWN DIAGRAMMATICALLY IN THE PLANS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

3 DEMO AND REMOVE EXISTING ACID VENT LINE AS SHOWN.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

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F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

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GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

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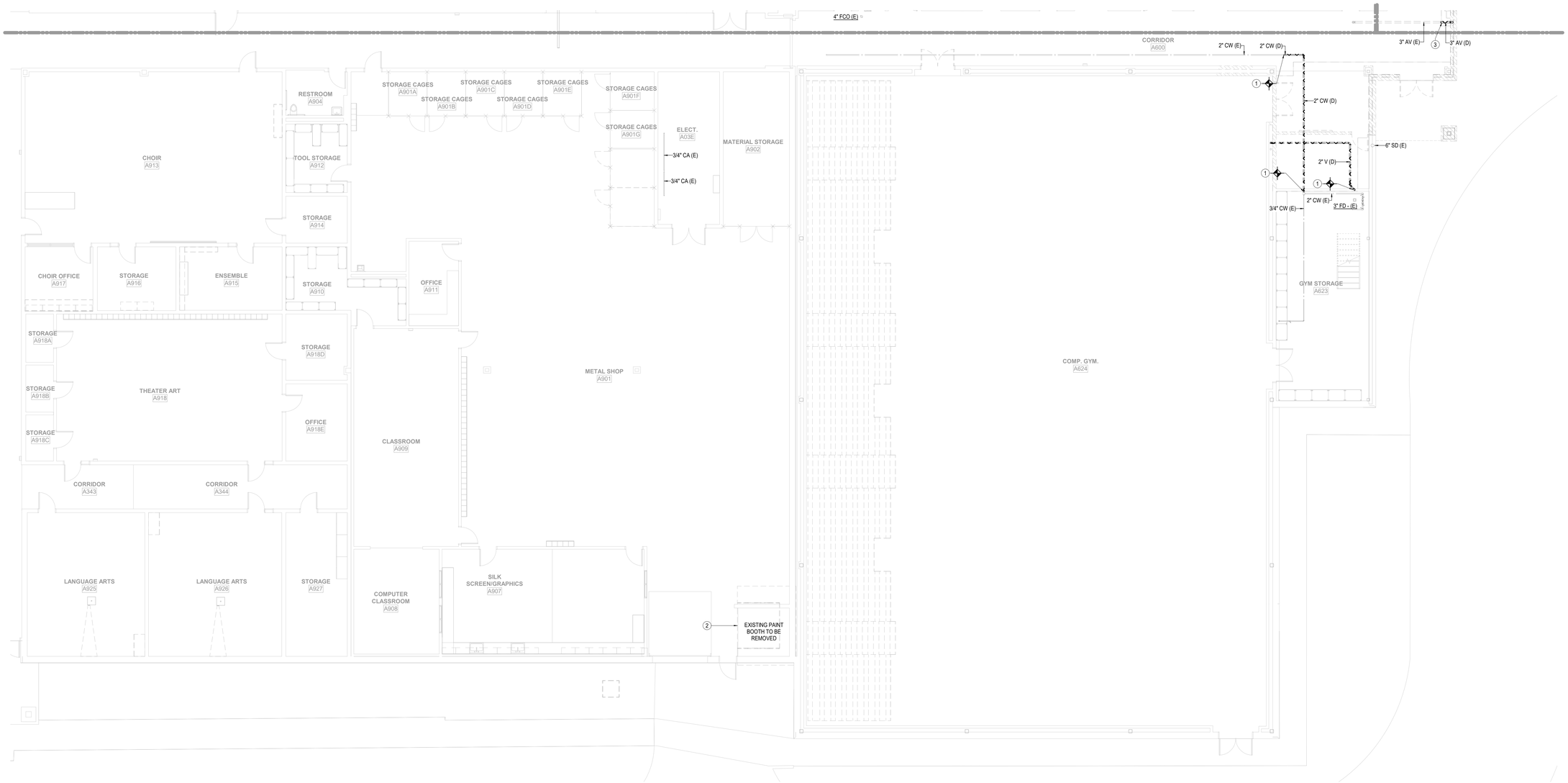

1 1ST LEVEL PLUMBING DEMO PLAN - AREA A
SCALE: 1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt

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Plot Stamp: 2/12/2025 6:00:46 PM

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TX Firm: BR 1608

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CONSULTANT NAME
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LANDSCAPE
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MEP
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ACOUSTIC
CONSULTANT NAME
T 000-000-0000
FIRE/LIFE
CONSULTANT NAME
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FOOD SERVICE
CONSULTANT NAME
T 000-000-0000
OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

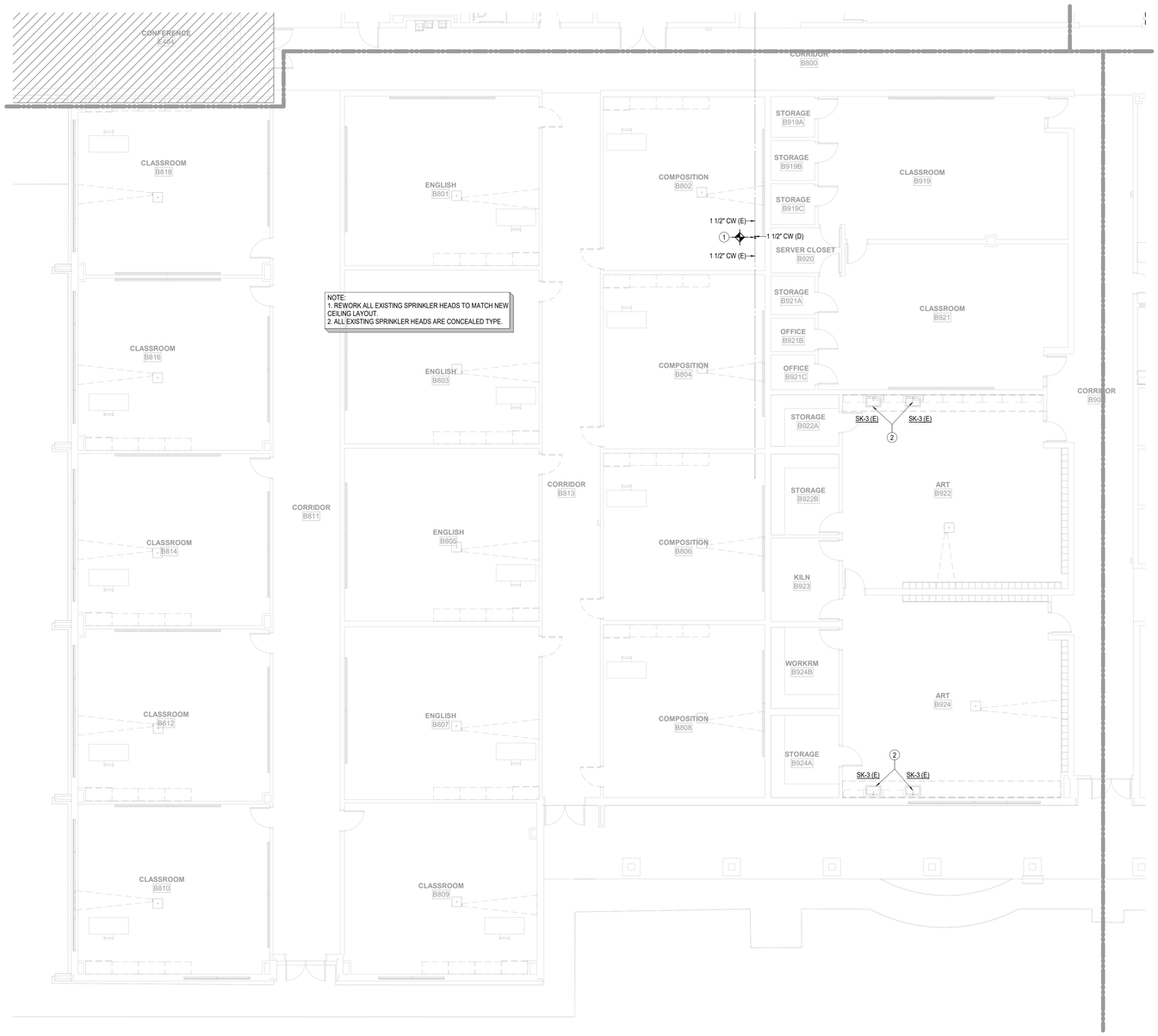
1ST LEVEL PLUMBING DEMO PLAN - AREA A

PD-101A

0"
1"

1ST LEVEL PLUMBING DEMO PLAN - AREA B
PD-101B
FOR BLUEBEAM LABELING:OCR:

ISSUE FOR PROPOSAL



1 1ST LEVEL PLUMBING DEMO PLAN - AREA B
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 DEMO AND REMOVE EXISTING PIPE PIECE TO TAP INTO EXISTING DOMESTIC WATER LINE. REFER TO NEW CONSTRUCTION PLUMBING PLAN FOR THE NEW DOMESTIC WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

2 REMOVE AND SAFELY STORE EXISTING SINKS AND ITS PLUMBING CONNECTIONS IN PREPARATION OF THE NEW COUNTERTOP AND NEW BACKSPLASH.

PBK

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713-965-0608 P
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TX Firm: BR 1608

CIVIL
CONSULTANT NAME
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LANDSCAPE
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ACOUSTIC
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FIRE/ATEX
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OTHER
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LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL PLUMBING DEMO PLAN - AREA B

PD-101B

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt
CHECKED BY: Checker
DRAWN BY: Author
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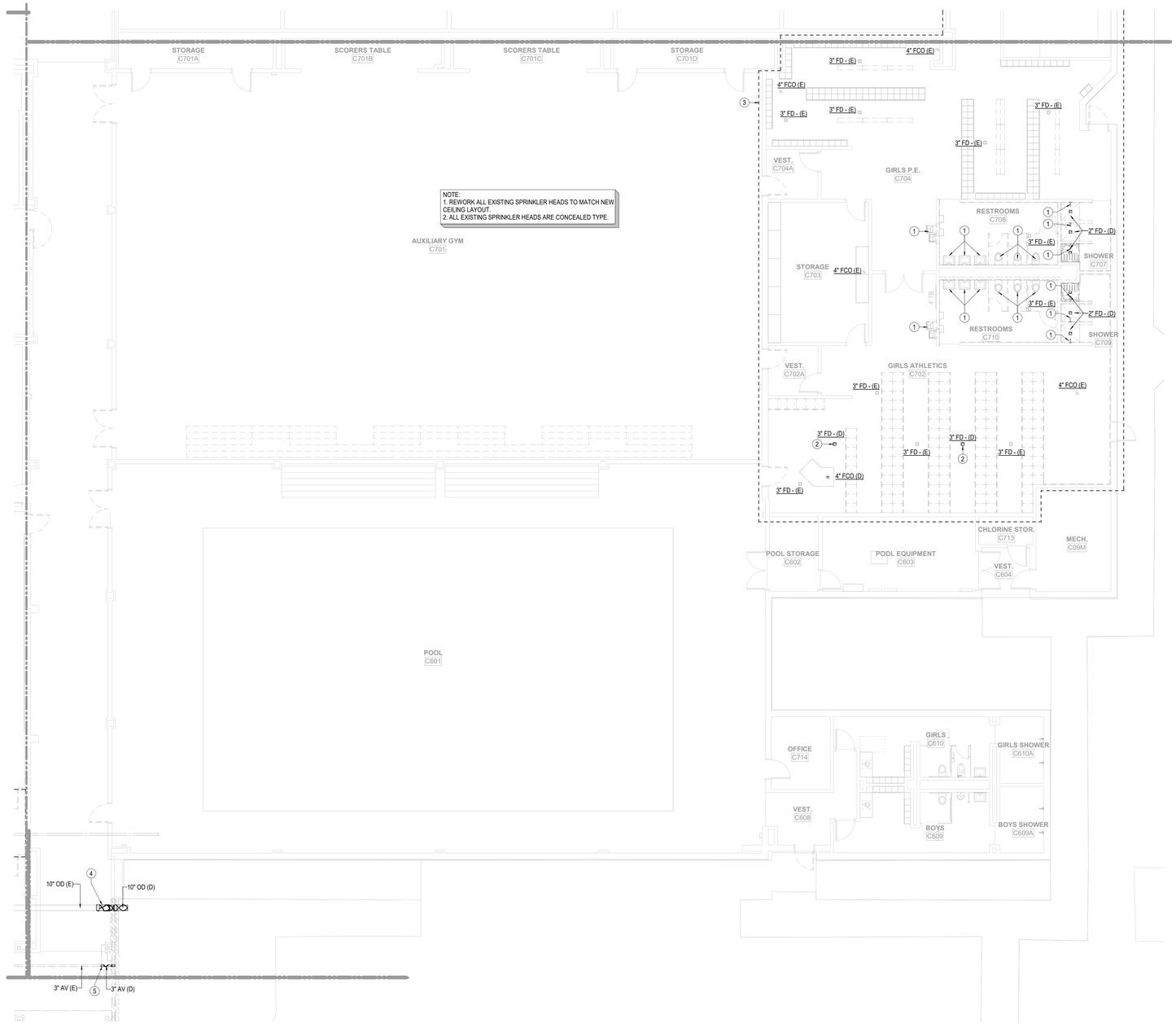
0"
1"

1ST LEVEL PLUMBING DEMO PLAN - AREA C
PD-101C
FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL



1 **1ST LEVEL PLUMBING DEMO PLAN - AREA C**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 DEMO AND REMOVE EXISTING PLUMBING FIXTURES AND REPLACE WITH NEW PLUMBING FIXTURES. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

2 DEMO AND REMOVE FLOOR DRAIN. CAP AND SEAL THE PLUMBING CONNECTION AND PATCH THE SLAB TO MATCH EXISTING CONDITION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

3 REWORK EXISTING SPRINKLER HEADS IN THIS AREA TO MATCH NEW LOCKER LAYOUT.

4 DEMO AND REMOVE EXISTING OVERFLOW DRAIN LINE AS SHOWN.

5 DEMO AND REMOVE EXISTING ACID VENT LINE AS SHOWN.

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FOOD SERVICE
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OTHER
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LEAF ENGINEERS

Arnold Middle School
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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING DEMO PLAN - AREA C

PD-101C

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt
CHECKED BY: Checker
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0"
1"

1ST LEVEL PLUMBING DEMO PLAN - AREA D
PD-101D
FOR BLUEBEAM LABELING:OCR:

ISSUE FOR PROPOSAL

KEYNOTES - PLUMBING PLAN

1 DEMO AND REMOVE EXISTING PLUMBING FIXTURES AND REPLACE WITH NEW PLUMBING FIXTURES. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

2 DEMO AND REMOVE EXISTING PIPE PIECE TO TAP INTO EXISTING DOMESTIC WATER LINE. REFER TO NEW CONSTRUCTION PLUMBING PLAN FOR THE NEW DOMESTIC WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

3 DEMO AND REMOVE EXISTING PIPE PIECE TO TAP INTO EXISTING VENT LINE. REFER TO NEW CONSTRUCTION PLUMBING PLAN FOR THE NEW VENT LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

4 REWORK EXISTING SPRINKLER HEADS IN THIS AREA TO MATCH NEW LOCKER LAYOUT.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

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E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

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I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

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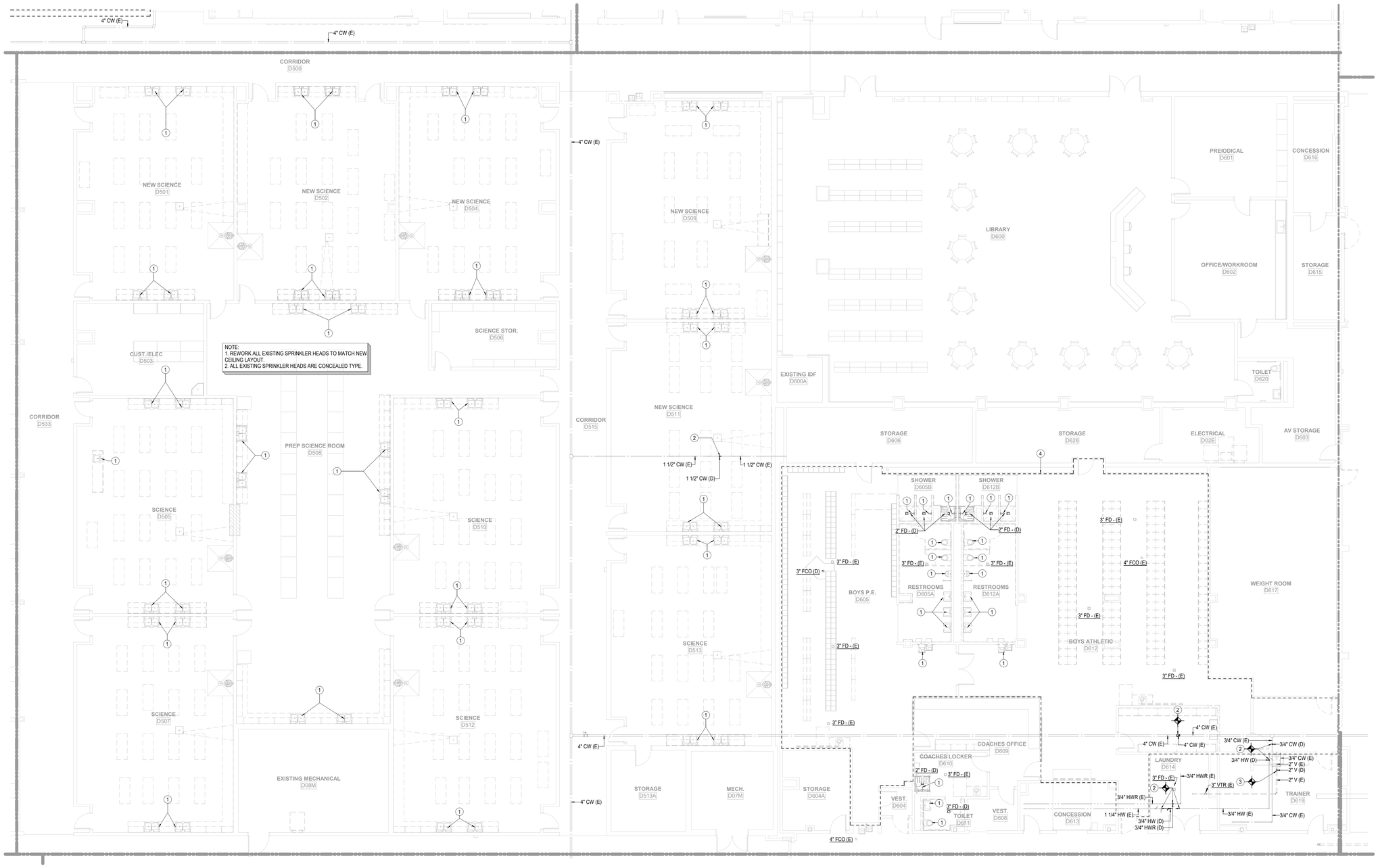
P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 1ST LEVEL PLUMBING DEMO PLAN - AREA D
SCALE: 1/8" = 1'-0"

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt
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LANDSCAPE
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LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL PLUMBING DEMO PLAN - AREA D

PD-101D

1ST LEVEL PLUMBING DEMO PLAN - AREA E
PD-101E
FOR BLUEBEAM LABELING:

0"
1"

ISSUE FOR PROPOSAL

1 **1ST LEVEL PLUMBING DEMO PLAN - AREA E**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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KEYNOTES - PLUMBING PLAN

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OTHER
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LEAF ENGINEERS

Arnold Middle School
11111 TEL GF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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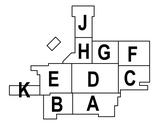
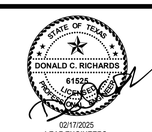


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING DEMO PLAN - AREA E

PD-101E

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt

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Author
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1ST LEVEL PLUMBING DEMO PLAN - AREA F

PD-101F

FOR BLUEBEAM LABELING/OCR:

0"

1"

1 **1ST LEVEL PLUMBING DEMO PLAN - AREA F**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

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G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

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KEYNOTES - PLUMBING PLAN

1 DEMO AND REMOVE EXISTING PLUMBING FIXTURES AND REPLACE WITH NEW PLUMBING FIXTURES. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

2 REWORK EXISTING SPRINKLER HEADS IN THIS AREA TO MATCH NEW CEILING LAYOUT.

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LEAF ENGINEERS

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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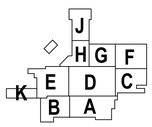
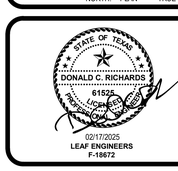
KEY PLAN
NORTH: PLAN TRUE





02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING DEMO PLAN - AREA F

PD-101F

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt

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Author
Plot Stamp:
2/12/2025 6:00:59 PM

0"
1"

1ST LEVEL PLUMBING DEMO PLAN - AREA G
PD-101G
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYNOTES - PLUMBING PLAN

1 DEMO AND REMOVE EXISTING PLUMBING FIXTURES AND REPLACE WITH NEW PLUMBING FIXTURES. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

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GENERAL NOTES - PLUMBING PLAN

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1 1ST LEVEL PLUMBING DEMO PLAN - AREA G
SCALE: 1/8" = 1'-0"

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Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: BR 1608

CIVIL
CONSULTANT NAME
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LANDSCAPE
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STRUCTURAL
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FOOD SERVICE
CONSULTANT NAME
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OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date
	ISSUE FOR PROPOSAL	

BUILDING NUMBER

1ST LEVEL PLUMBING DEMO PLAN - AREA G

PD-101G

ISSUE FOR PROPOSAL

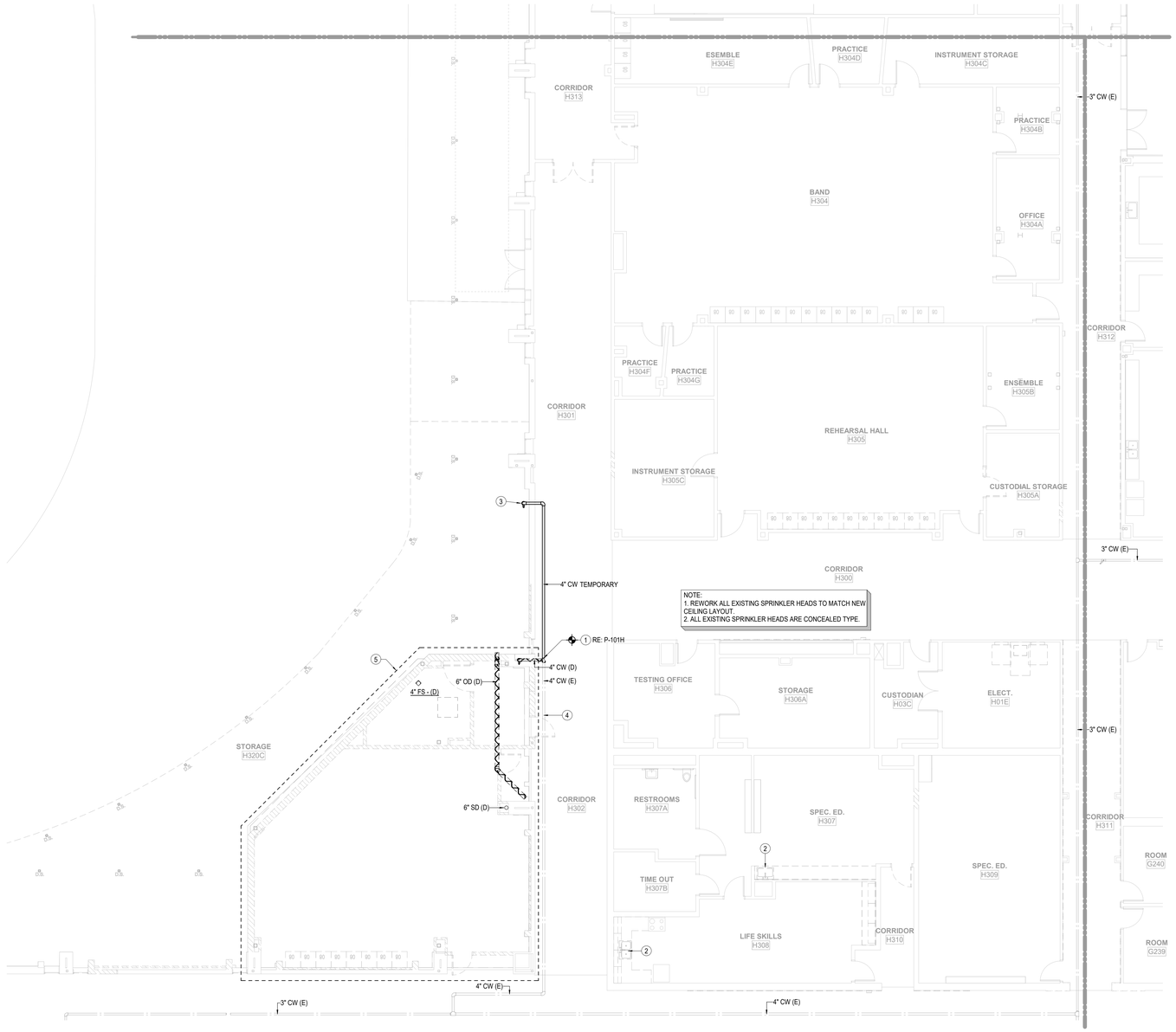
1ST LEVEL PLUMBING DEMO PLAN - AREA H

PD-101H

FOR BLUEBEAM LABELING/OCR:

0"

1"



1 1ST LEVEL PLUMBING DEMO PLAN - AREA H
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 CONNECT TEMPORARY WATER LINE TO EXISTING WATER LINE. PRIOR TO DEMOLITION IN THIS AREA. EXISTING WATER SERVICE TO BUILDING ENTERS THROUGH THE AREA SCHEDULED FOR DEMOLITION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

2 DEMO AND REMOVE EXISTING PLUMBING FIXTURES AND REPLACE WITH NEW PLUMBING FIXTURES. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

3 TEMPORARY EXTENTION OF WATER SERVICE LINE OUTSIDE OF DEMOLITION AREA. RE: CIVIL. REMOVE AFTER SERVICE IS ESTABLISHED WITHIN NEW ADDITION. RE: P-101H FOR NEW SERVICE ENTRY LOCATION.

4 EXISTING DOMESTIC WATER LINE TO REMAIN.

5 AREA TO BE DEMOLISHED.

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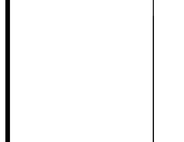
KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING DEMO PLAN - AREA H

PD-101H

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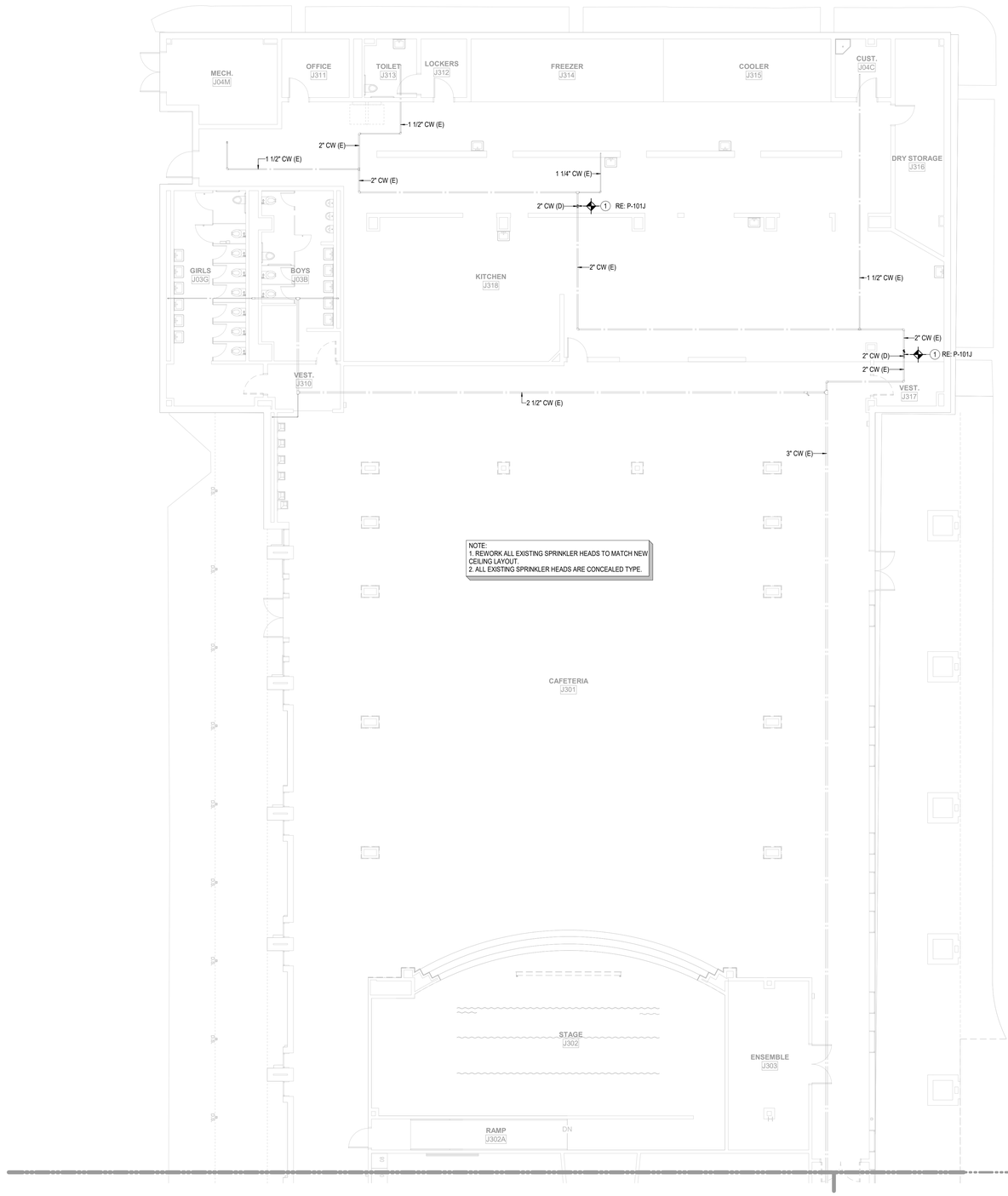
1ST LEVEL PLUMBING DEMO PLAN - AREA J
PD-101J
FOR BLUEBEAM LABELING:

0"
1"



GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

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J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

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N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 DEMO AND REMOVE EXISTING PIPE PIECE TO TAP INTO EXISTING DOMESTIC WATER LINE. REFER TO NEW CONSTRUCTION PLUMBING PLAN FOR THE NEW DOMESTIC WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

1 **1ST LEVEL PLUMBING DEMO PLAN - AREA J**
SCALE: 1/8" = 1'-0"

ISSUE FOR PROPOSAL

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TIREATER
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FOOD SERVICE
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OTHER
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LEAF ENGINEERS

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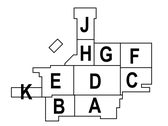
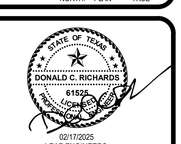


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL PLUMBING DEMO PLAN - AREA J

PD-101J

0"

1"

1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA A

PU-101A

FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

KEYNOTES - PLUMBING PLAN

1 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

2 2" WASTE DOWN.

3 2" VENT UP.

4 4" WASTE DOWN.

5 REPLACE ACID VENT TO BE PLACED INSIDE THE FURROUT/ CHASE AND RECONNECT TO EXISTING ACID VENT LINE.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

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F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

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GENERAL NOTES - PLUMBING PLAN

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L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

1 **1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA A**
SCALE: 1/8" = 1'-0"

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TX Firm: BR 1608

CIVIL
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LANDSCAPE
CONSULTANT NAME
T 000-000-0000

STRUCTURAL
CONSULTANT NAME
T 000-000-0000

MEP
CONSULTANT NAME
T 000-000-0000

ACOUSTIC
CONSULTANT NAME
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T 000-000-0000

FOOD SERVICE
CONSULTANT NAME
T 000-000-0000

OTHER
CONSULTANT NAME
T 000-000-0000

LEAF ENGINEERS

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CYPRESS, TX 77429
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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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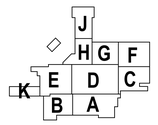

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA A

PU-101A

0"
1"

1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA C
PU-101C
FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL

KEYNOTES - PLUMBING PLAN

1 CONNECT NEW SANITARY LINE TO EXISTING.

2 REPLACE ACID VENT TO BE PLACED INSIDE THE FURROUT/ CHASE AND RECONNECT TO EXISTING ACID VENT LINE.

3 EXISTING FLOOR DRAINS TO REMAIN.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

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E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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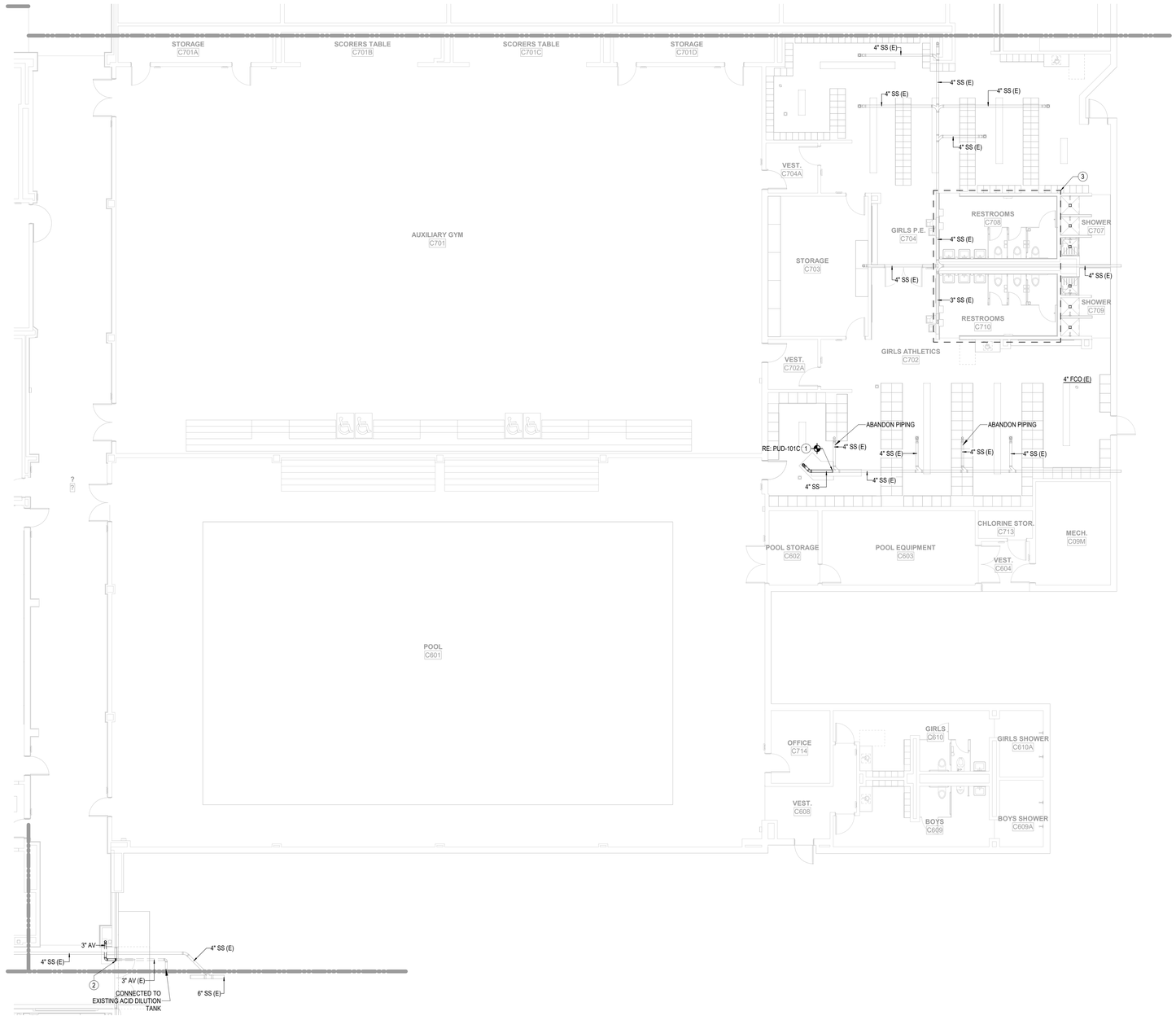
P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA C
SCALE: 1/8" = 1'-0"

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FOOD SERVICE
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OTHER
CONSULTANT NAME
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LEAF ENGINEERS

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
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LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA C

PU-101C

ISSUE FOR PROPOSAL

1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA D

PU-101D

FOR BLUEBEAM LABELING OCR:

0"

1"

KEYNOTES - PLUMBING PLAN

1 CONNECT NEW SANITARY LINE TO EXISTING.

2 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

3 3" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

4 3" WASTE DOWN AND 2" VENT UP.

5 2" VENT UP.

6 EXISTING FLOOR DRAINS TO REMAIN.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

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I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

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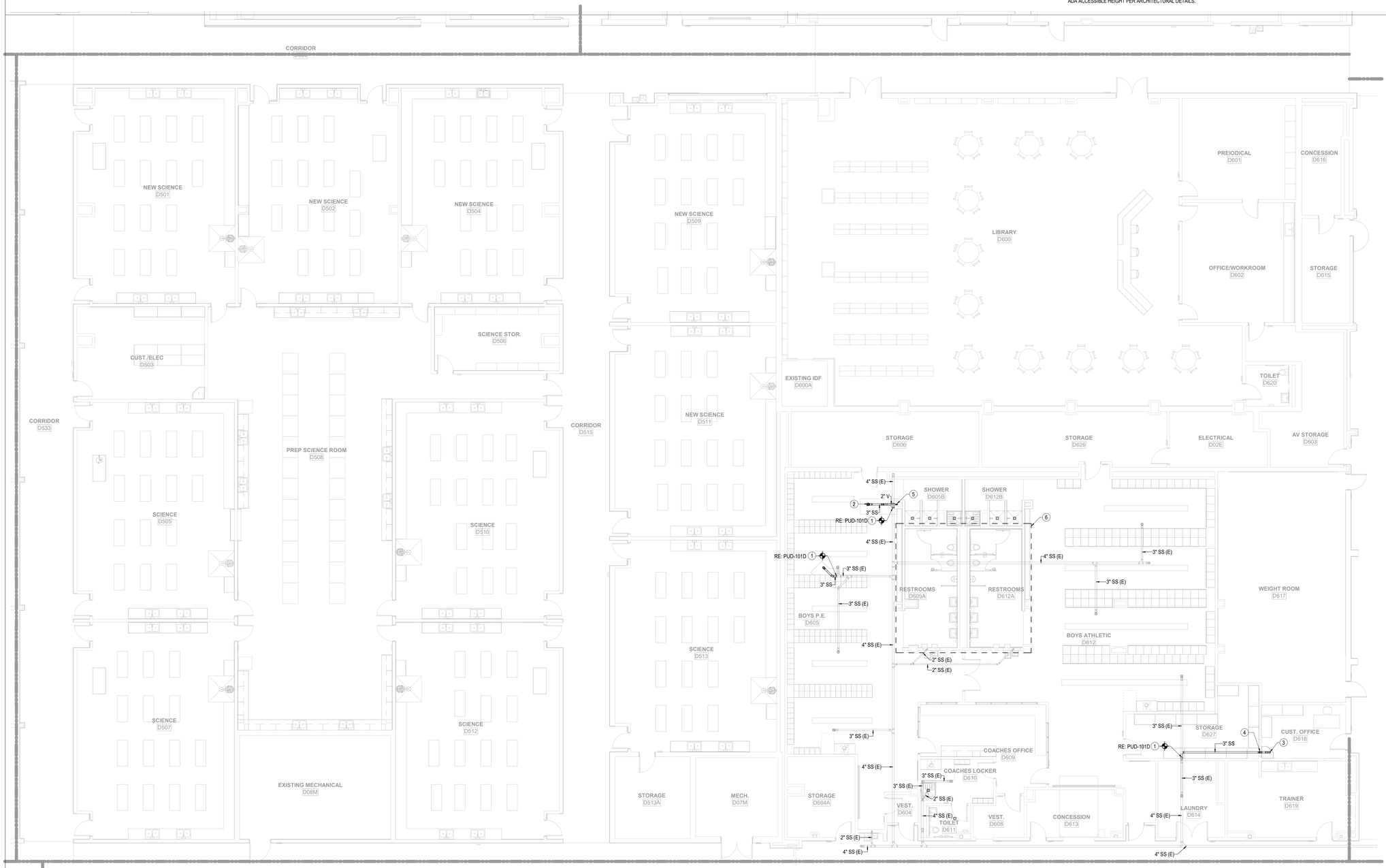

1 1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA D
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA D

PU-101D

ISSUE FOR PROPOSAL

1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA H

PU-101H

FOR BLUEBEAM LABELING:OCR:

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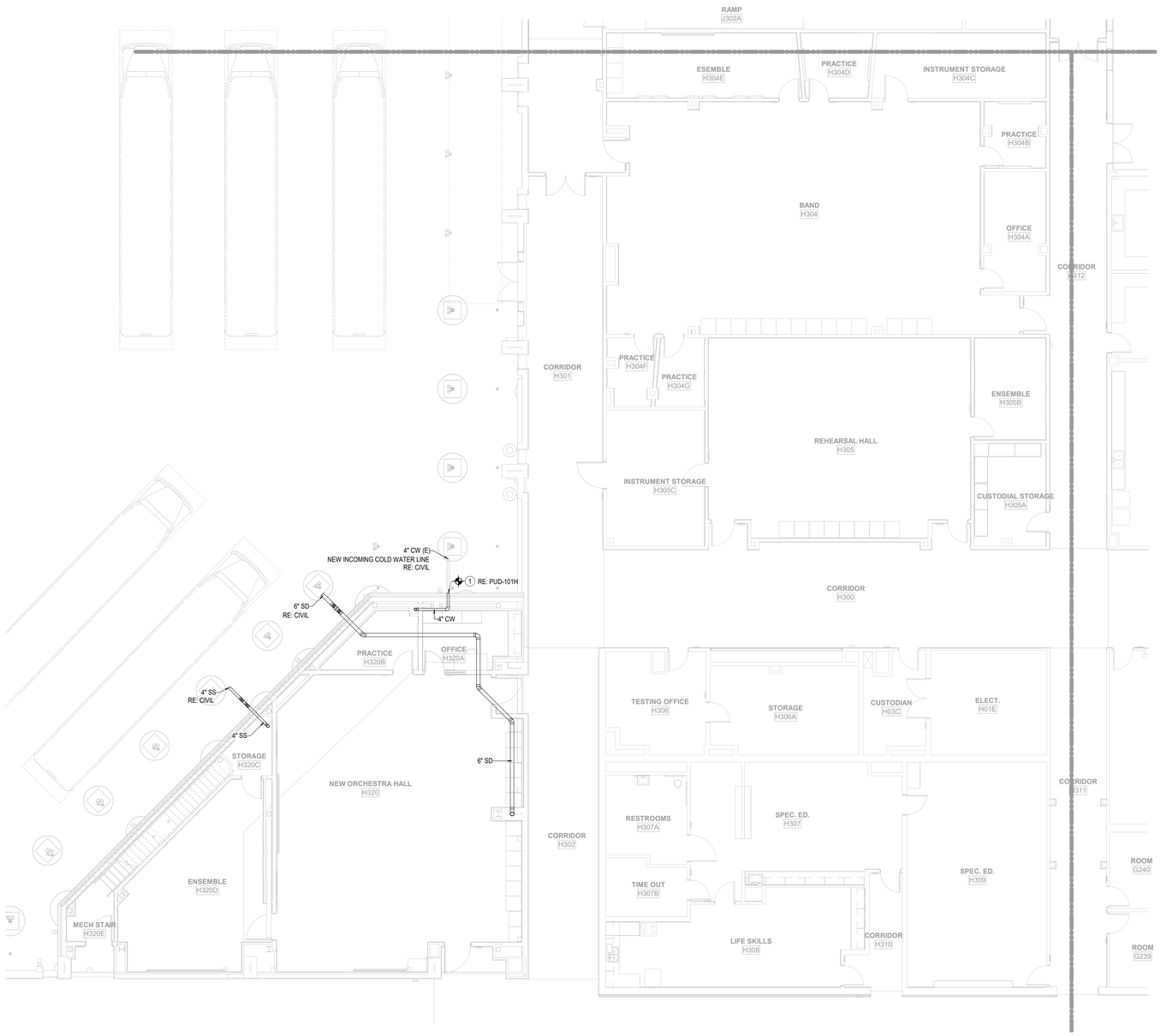

1 **1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA H**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 CONNECT NEW WATER LINE TO EXISTING WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

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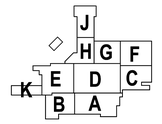

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

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1ST LEVEL PLUMBING UNDERFLOOR PLAN - AREA H

PU-101H

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ISSUE FOR PROPOSAL

1ST LEVEL PLUMBING PLAN - AREA A

P-101A

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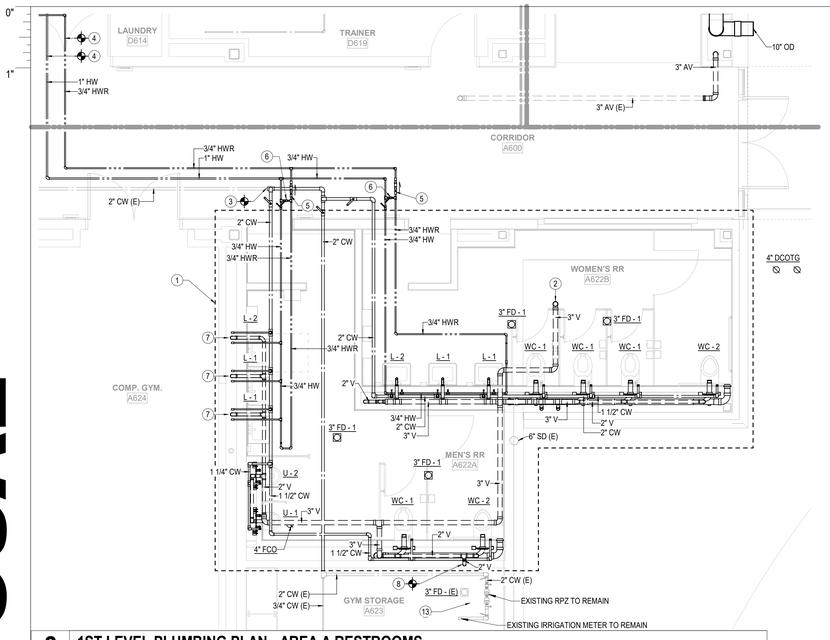


2 1ST LEVEL PLUMBING PLAN - AREA A RESTROOMS

SCALE: 1/4" = 1'-0"

KEYNOTES - PLUMBING PLAN

1 PROVIDE NEW FIRE SPRINKLERS IN THIS AREA AND EXTEND FIRE SPRINKLER SYSTEM WITHIN THE NEW AREA.

2 3" VENT THRU ROOF.

3 CONNECT NEW WATER LINE TO EXISTING WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

4 CONNECT AND EXTEND LINE TO THE NEAREST DOMESTIC HOT WATER AND HOT WATER RETURN MAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

5 3/4" HOT WATER RETURN BALANCING VALVE (CONFIRM/ADJUST SETPOINT OF EACH INDIVIDUAL BALANCING VALVE TO FLOW MINIMUM OF 0.5 GPM AND ADJUST AS REQUIRED TO PROVIDE PROPER/NECESSARY BALANCING).

6 BYPASS VALVE NORMALLY CLOSED.

KEYNOTES - PLUMBING PLAN

7 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

8 CONNECT NEW VENT LINE TO EXISTING.

9 PROVIDE COMPRESSED AIR CONNECTION TO THE PAINT BOOTH FROM THE EXISTING COMPRESSED AIR LINE. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT/ PAINT BOOTH MANUFACTURER FOR THE SIZE AND PROVIDE CONNECTION AS PER MANUFACTURER'S REQUIREMENT.

10 CONNECT NEW COMPRESSED AIR PIPING TO EXISTING COMPRESSED AIR PIPING.

11 PROVIDE QUICK CONNECT FOR COMPRESSED AIR NEAR ENTRY TO BOOTH.

12 EXTEND SPRINKLER SYSTEM (HEAD) INTO THE NEW PAINT BOOTH.

13 INSPECTOR'S TEST AND DRAIN (TO BE DIRECTED TO EXISTING 4" FLOOR SINK OR 4" FLOOR DRAIN OR 4" CLEANOUT DRAIN WHICHEVER IS PRESENT). CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

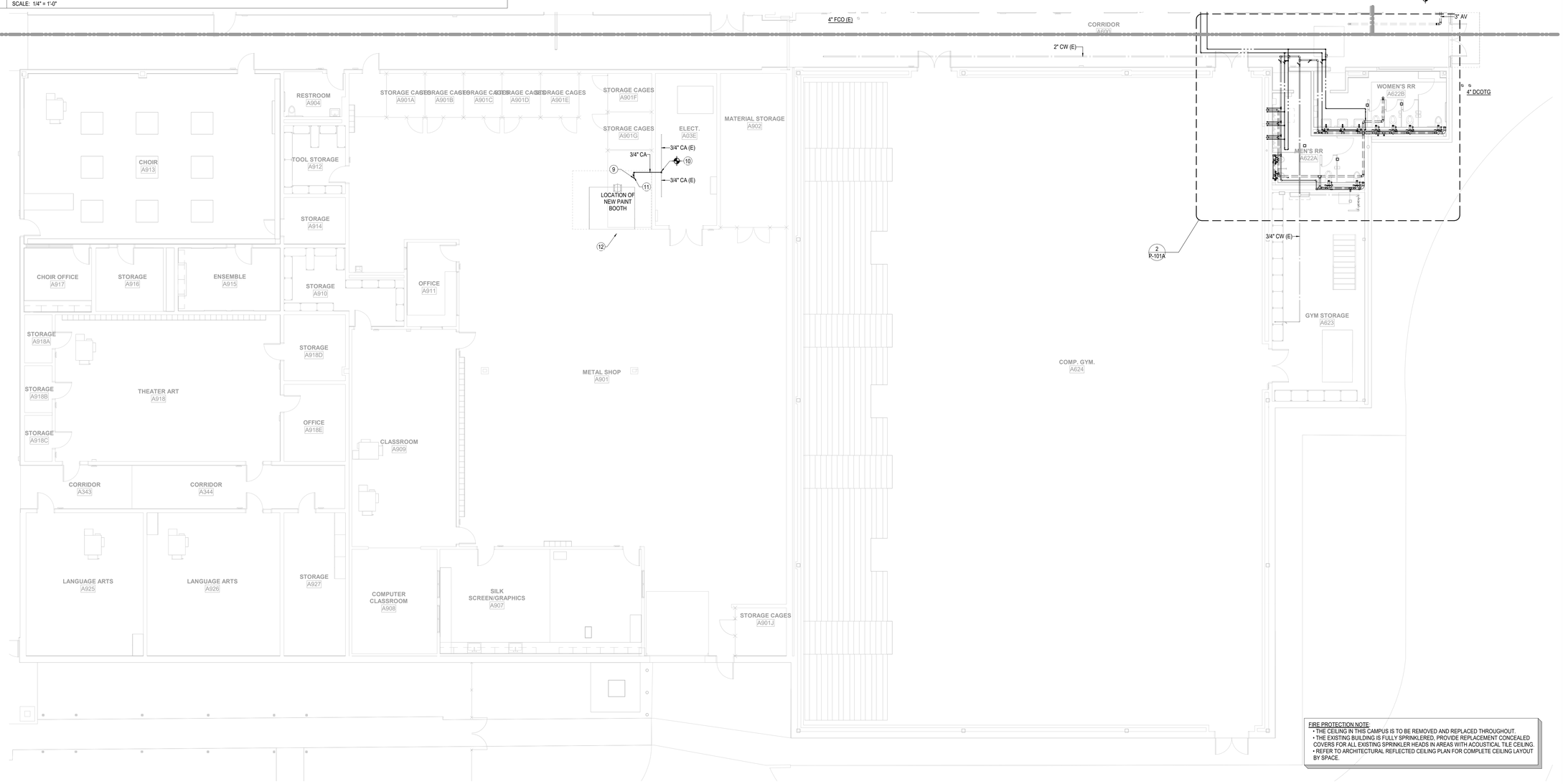
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



FIRE PROTECTION NOTE:
- THE CEILING IN THIS CAMPUS IS TO BE REMOVED AND REPLACED THROUGHOUT.
- THE EXISTING BUILDING IS FULLY SPRINKLERED. PROVIDE REPLACEMENT CONCEALED COVERS FOR ALL EXISTING SPRINKLER HEADS IN AREAS WITH ACOUSTICAL TILE CEILING.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COMPLETE CEILING LAYOUT BY SPACE.

1 1ST LEVEL PLUMBING PLAN - AREA A

SCALE: 1/8" = 1'-0"

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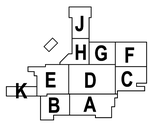
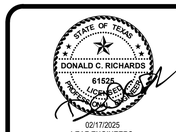
NORTH: PLAN TRUE





02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING PLAN - AREA A

P-101A

ISSUE FOR PROPOSAL

1ST LEVEL PLUMBING PLAN - AREA B

P-101B

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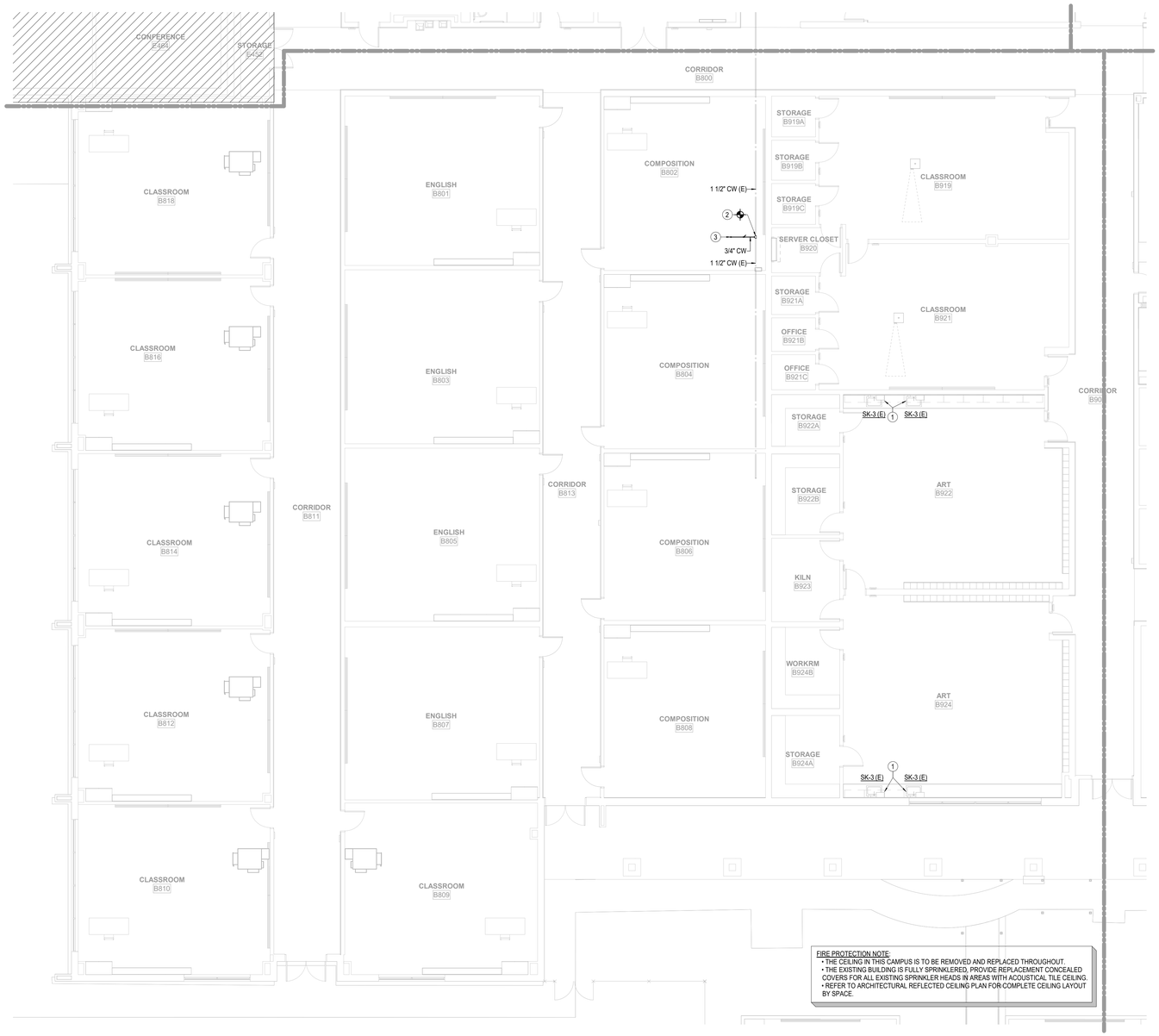

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- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COMPLETE CEILING LAYOUT BY SPACE.

1 **1ST LEVEL PLUMBING PLAN - AREA B**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

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N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 RE-INSTALL EXISTING SINKS AND ITS PLUMBING CONNECTIONS IN PREPARATION OF THE NEW COUNTERTOP AND NEW BACKSPLASH. RECONNECT TO EXISTING DOMESTIC WATER, WASTE, AND VENT PIPING.

2 CONNECT NEW WATER LINE TO EXISTING WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

3 3/4" COLD WATER UP TO NON-FREEZE ROOF HYDRANT.

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PROJECT NUMBER 220023

DRAWING HISTORY

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ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING PLAN - AREA B

P-101B

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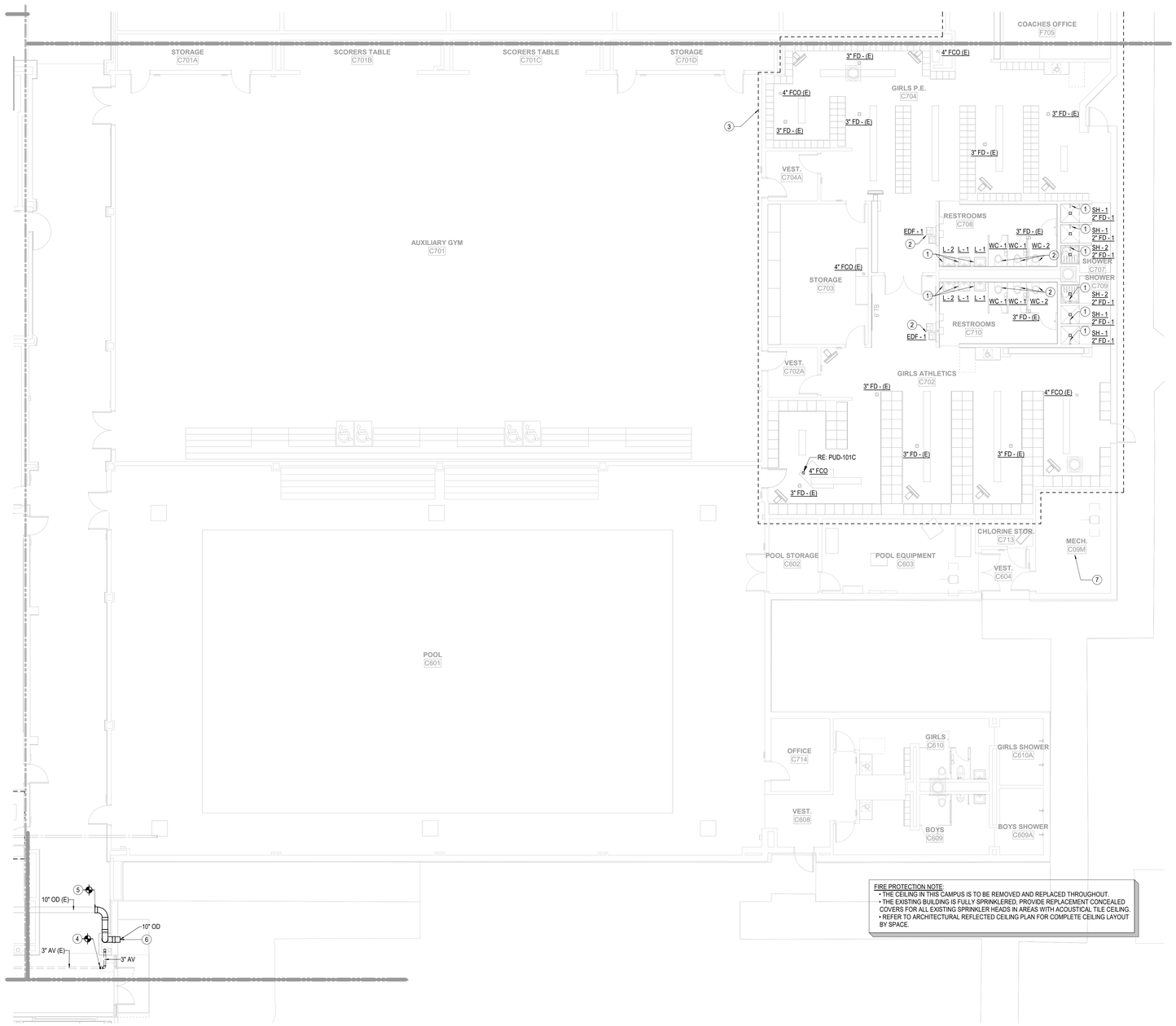

1 1ST LEVEL PLUMBING PLAN - AREA C
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

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KEYNOTES - PLUMBING PLAN

1 PROVIDE NEW PLUMBING FIXTURE, CARRIER, AND RECONNECT TO EXISTING DOMESTIC COLD HOT WATER, WASTE, AND VENT. WASTE AND VENT PIPING WITHIN CHASE SHALL BE NEW FROM SLAB TO PLENUM.

2 PROVIDE NEW PLUMBING FIXTURE, CARRIER, AND RECONNECT TO EXISTING DOMESTIC COLD WATER, WASTE, AND VENT. WASTE AND VENT PIPING WITHIN CHASE SHALL BE NEW FROM SLAB TO PLENUM.

3 REWORK EXISTING SPRINKLER HEADS IN THIS AREA TO MATCH NEW LOCKER LAYOUT.

4 REPLACE ACID VENT TO BE PLACED INSIDE THE FURROUT/ CHASE AND RECONNECT TO EXISTING ACID VENT LINE.

5 REPLACE OVERFLOW DRAIN TO BE PLACED INSIDE THE FURROUT/ CHASE AND RECONNECT TO EXISTING OVERFLOW LINE.

6 OVERFLOW PIPE SPILL 18" ABOVE GRADE. PROVIDE DOWNSPOUT NOZZLE.

7 INSPECTOR'S TEST AND DRAIN (TO BE DIRECTED TO EXISTING 4" FLOOR SINK OR 4" FLOOR DRAIN OR 4" CLEANOUT DRAIN WHICHEVER IS PRESENT). CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

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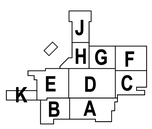

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1ST LEVEL PLUMBING PLAN - AREA C

P-101C

ISSUE FOR PROPOSAL

1ST LEVEL PLUMBING PLAN - AREA C
P-101C
FOR BLUEBEAM LABELING OCR:

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1ST LEVEL PLUMBING PLAN - AREA D
P-101D
FOR BLUEBEAM LABELING/OCR:

ISSUE FOR PROPOSAL

KEYNOTES - PLUMBING PLAN

1 PROVIDE NEW PLUMBING FIXTURE, CARRIER, AND RECONNECT TO EXISTING DOMESTIC COLD/ HOT WATER, WASTE, AND VENT. WASTE AND VENT PIPING WITHIN CHASE SHALL BE NEW FROM SLAB TO PLENUM.

2 PROVIDE NEW PLUMBING FIXTURE, CARRIER, AND RECONNECT TO EXISTING DOMESTIC COLD WATER, WASTE, AND VENT. WASTE AND VENT PIPING WITHIN CHASE SHALL BE NEW FROM SLAB TO PLENUM.

3 PROVIDE NEW PLUMBING FIXTURES AND PROVIDE PLUMBING CONNECTIONS FOR DOMESTIC COLD/ HOT WATER, SANITARY, AND VENT BASED ON THE EXISTING CONDITION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

4 CONNECT NEW WATER LINE TO EXISTING WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

5 3/4" COLD WATER UP TO NON-FREEZE ROOF HYDRANT.

6 PROVIDE NEW PLUMBING FIXTURES, NEW CARRIERS AND PROVIDE PLUMBING CONNECTIONS FOR DOMESTIC WATER, SANITARY, AND VENT BASED ON THE EXISTING CONDITION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

KEYNOTES - PLUMBING PLAN

7 CONNECT NEW VENT LINE TO EXISTING.

8 3/4" COLD WATER DOWN TO SERVE CHEMICAL DISPENSING UNIT (FURNISHED BY OTHERS). CONTRACTOR SHALL PROVIDE LOCAL AHJ-APPROVED METHOD OF BACKFLOW PROTECTION AS REQUIRED FOR THE UNIT, REFER TO UNIT INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

9 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

10 REWORK EXISTING SPRINKLER HEADS IN THIS AREA TO MATCH NEW LOCKER LAYOUT.

11 PROVIDE NEW PLUMBING FIXTURES AND PROVIDE PLUMBING CONNECTIONS FOR GAS, DOMESTIC COLD/ HOT WATER, SANITARY, AND VENT BASED ON THE EXISTING CONDITION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

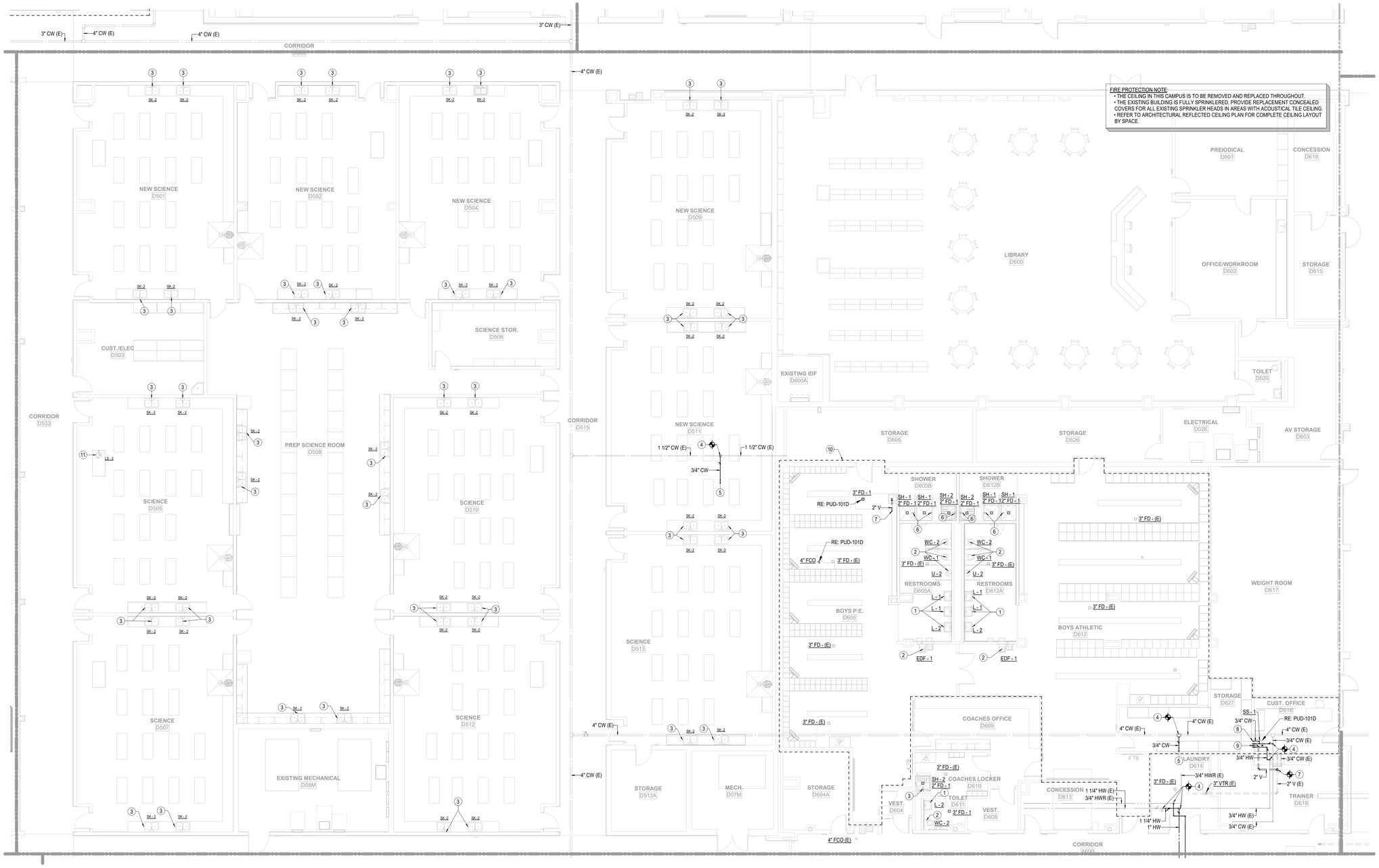
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 **1ST LEVEL PLUMBING PLAN - AREA D**
SCALE: 1/8" = 1'-0"

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TX Firm: BR 1608
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FOOD SERVICE
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OTHER
CONSULTANT NAME
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LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL PLUMBING PLAN - AREA D

P-101D

ISSUE FOR PROPOSAL

1ST LEVEL PLUMBING PLAN - AREA E

P-101E

FOR BLUEBEAM LABELING/OCR:

0"

1"

FIRE PROTECTION NOTE:
- THE CEILING IN THIS CAMPUS IS TO BE REMOVED AND REPLACED THROUGHOUT.
- THE EXISTING BUILDING IS FULLY SPRINKLERED; PROVIDE REPLACEMENT CONCEALED COVERS FOR ALL EXISTING SPRINKLER HEADS IN AREAS WITH ACOUSTICAL TILE CEILING.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COMPLETE CEILING LAYOUT BY SPACE.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

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F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

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I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

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M. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

2 CONNECT NEW WATER LINE TO EXISTING WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

3 3/4" COLD WATER UP TO NON-FREEZE ROOF HYDRANT.

4 INSPECTOR'S TEST AND DRAIN (TO BE DIRECTED TO EXISTING 4" FLOOR SINK OR 4" FLOOR DRAIN OR 4" CLEANOUT DRAIN WHICHEVER IS PRESENT). CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

1 1ST LEVEL PLUMBING PLAN - AREA E
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

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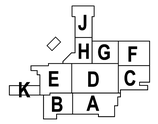
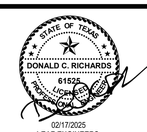


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING PLAN - AREA E

P-101E

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1ST LEVEL PLUMBING PLAN - AREA F

P-101F

FOR BLUEBEAM LABELING/OCR:

0"

1"

1 **1ST LEVEL PLUMBING PLAN - AREA F**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

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KEYNOTES - PLUMBING PLAN

1 PROVIDE NEW PLUMBING FIXTURES AND PROVIDE PLUMBING CONNECTIONS FOR DOMESTIC COLD/ HOT WATER, SANITARY, AND VENT BASED ON THE EXISTING CONDITION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

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LEAF ENGINEERS

Arnold Middle School

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CYPRESS, TX 77429
ISSUE FOR PROPOSAL

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INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
J H G F
K E D C
B A
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING PLAN - AREA F

P-101F

ISSUE FOR PROPOSAL

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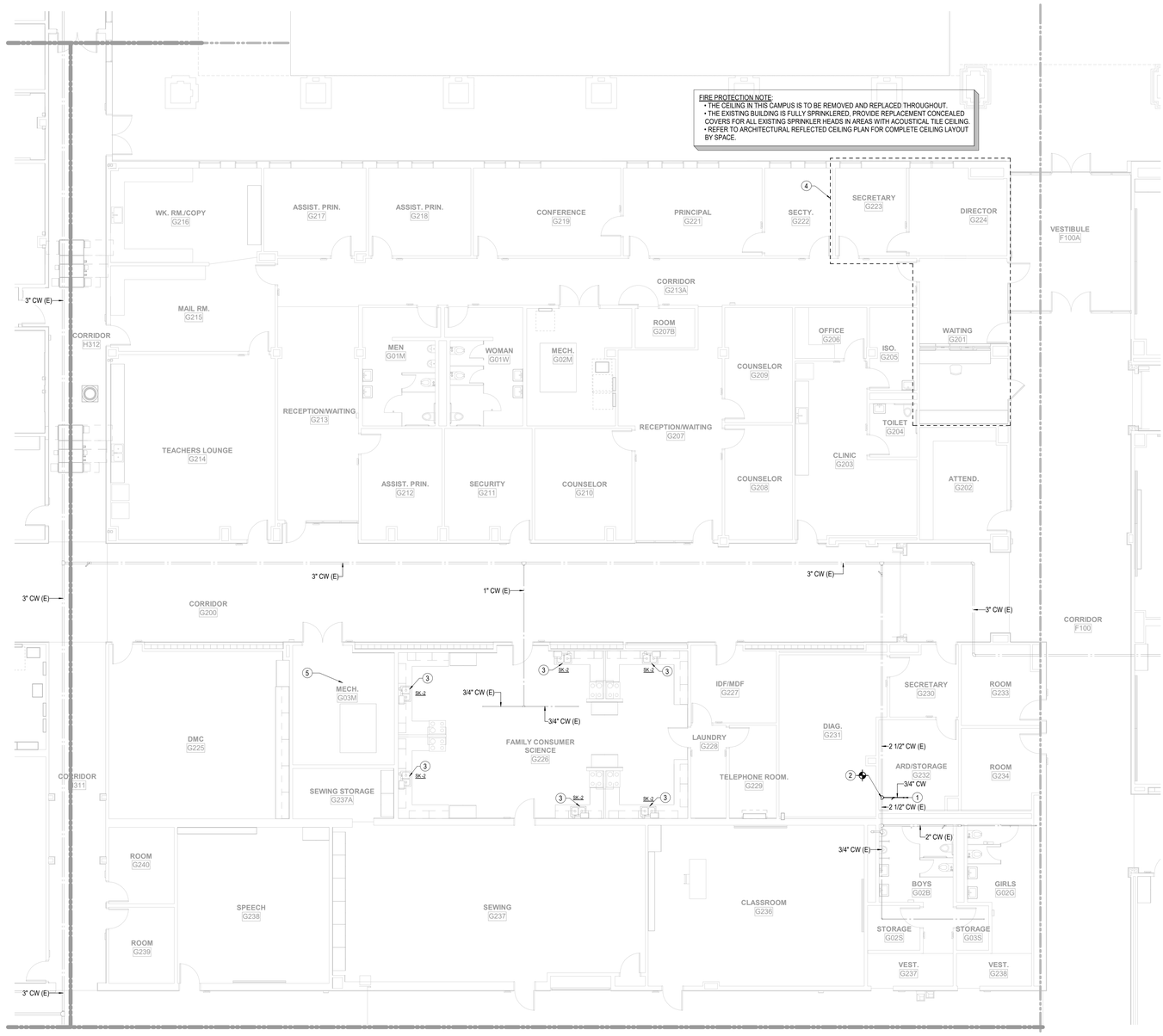

1 **1ST LEVEL PLUMBING PLAN - AREA G**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

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O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 3/4" COLD WATER UP TO NON-FREEZE ROOF HYDRANT.

2 CONNECT NEW WATER LINE TO EXISTING WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

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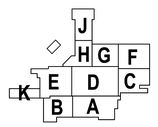
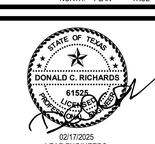


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL PLUMBING PLAN - AREA G

P-101G

1ST LEVEL PLUMBING PLAN - AREA G
P-101G
FOR BLUEBEAM LABELING/OCR:

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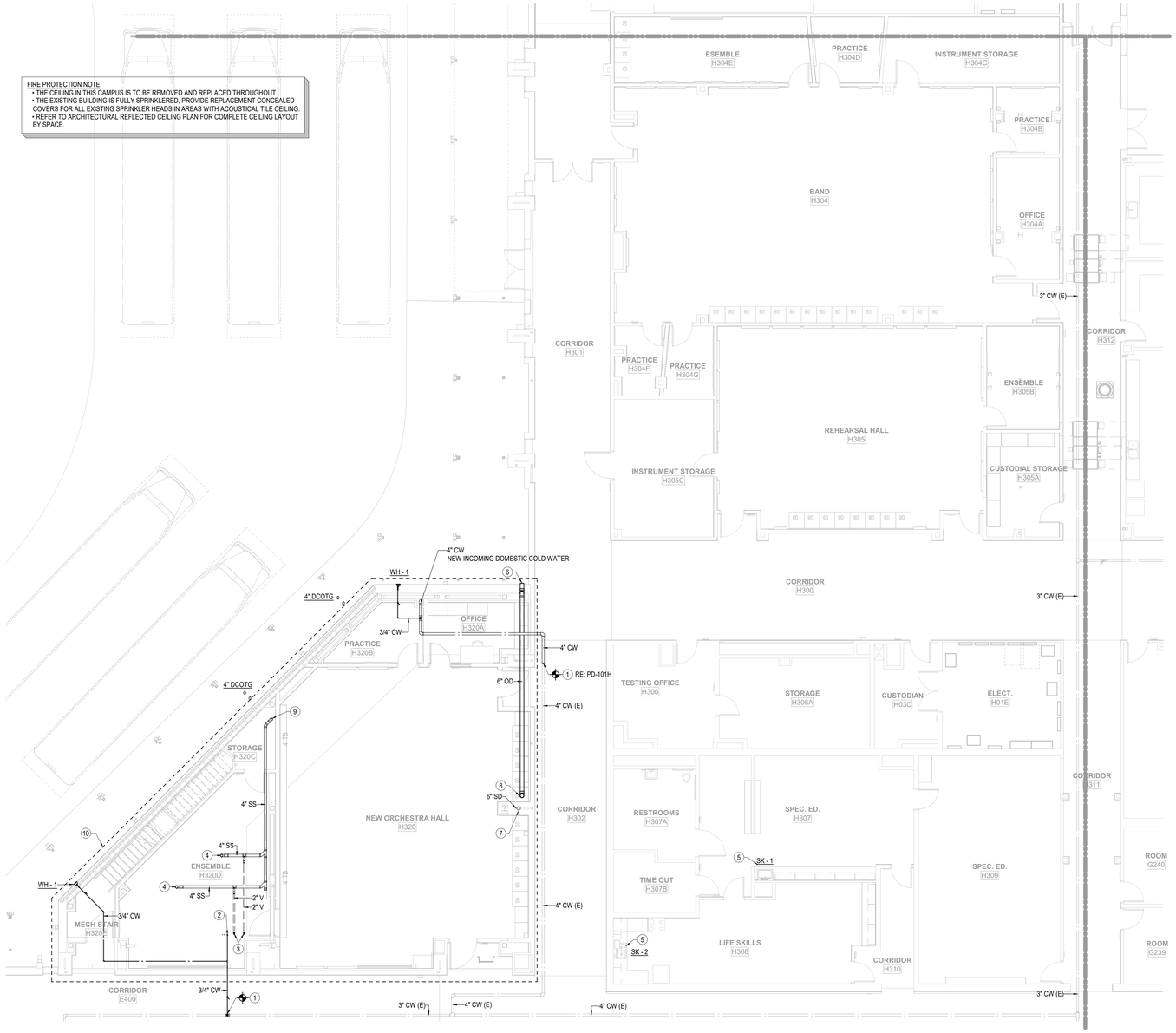
1ST LEVEL PLUMBING PLAN - AREA H
P-101H
FOR BLUEBEAM LABELING OCR:

ISSUE FOR PROPOSAL



1 **1ST LEVEL PLUMBING PLAN - AREA H**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

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KEYNOTES - PLUMBING PLAN

1 CONNECT NEW WATER LINE TO EXISTING WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

2 3/4" COLD WATER UP.

3 2" VENT UP.

4 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

5 PROVIDE NEW PLUMBING FIXTURE, CARRIER, AND RECONNECT TO EXISTING DOMESTIC COLD HOT WATER, WASTE, AND VENT. WASTE AND VENT PIPING WITHIN CHASE SHALL BE NEW FROM SLAB TO PLENUM.

6 OVERFLOW PIPE SPILL 18" ABOVE GRADE. PROVIDE DOWNSPOUT NOZZLE.

7 8" STORM PIPE DOWN FROM ABOVE.

8 6" STORM PIPE DOWN FROM ABOVE.

9 4" STORM PIPE DOWN.

10 PROVIDE NEW FIRE SPRINKLERS IN THIS AREA AND EXTEND FIRE SPRINKLER SYSTEM WITHIN THE NEW AREA.

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OTHER
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LEAF ENGINEERS

Arnold Middle School
11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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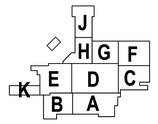
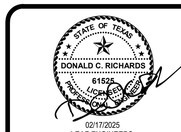


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST LEVEL PLUMBING PLAN - AREA H

P-101H

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt

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ISSUE FOR PROPOSAL

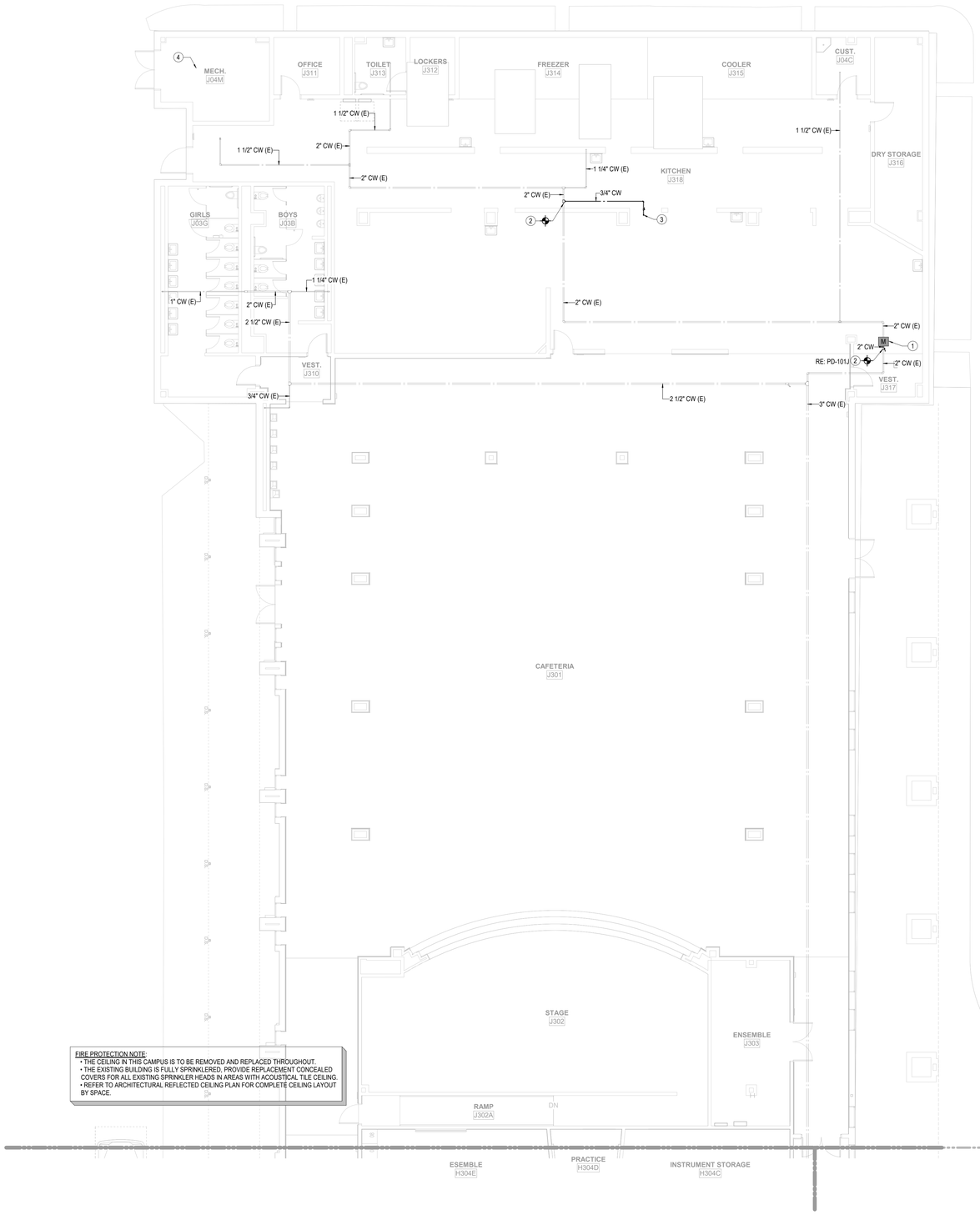
1ST LEVEL PLUMBING PLAN - AREA J

P-101J

FOR BLUEBEAM LABELING/OCR:

0"

1"



FIRE PROTECTION NOTE:
- THE CEILING IN THIS CAMPUS IS TO BE REMOVED AND REPLACED THROUGHOUT.
- THE EXISTING BUILDING IS FULLY SPRINKLERED, PROVIDE REPLACEMENT CONCEALED COVERS FOR ALL EXISTING SPRINKLER HEADS IN AREAS WITH ACOUSTICAL TILE CEILING.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COMPLETE CEILING LAYOUT BY SPACE.

1 **1ST LEVEL PLUMBING PLAN - AREA J**
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 BAS CONTRACTOR SHALL PROVIDE AND PLUMBING CONTRACTOR SHALL INSTALL WATER FLOW METER AND INSTALL AS PER SPECIFICATIONS. COORDINATE BAS CONNECTION(S) WITH DIV 23 AND DIV 26 AS REQUIRED.

2 PROVIDE SHUTOFF VALVE FOR THE KITCHEN AREA PRIOR THE WATER METER.

3 3/4" COLD WATER UP TO SERVE THE WALL HYDRANT AT THE MEZZANINE.

4 INSPECTOR'S TEST AND DRAIN (TO BE DIRECTED TO EXISTING 4" FLOOR SINK OR 4" FLOOR DRAIN OR 4" CLEANOUT DRAIN WHICHEVER IS PRESENT). CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

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LEAF ENGINEERS

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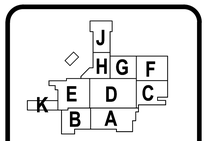
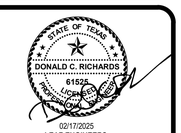


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST LEVEL PLUMBING PLAN - AREA J

P-101J

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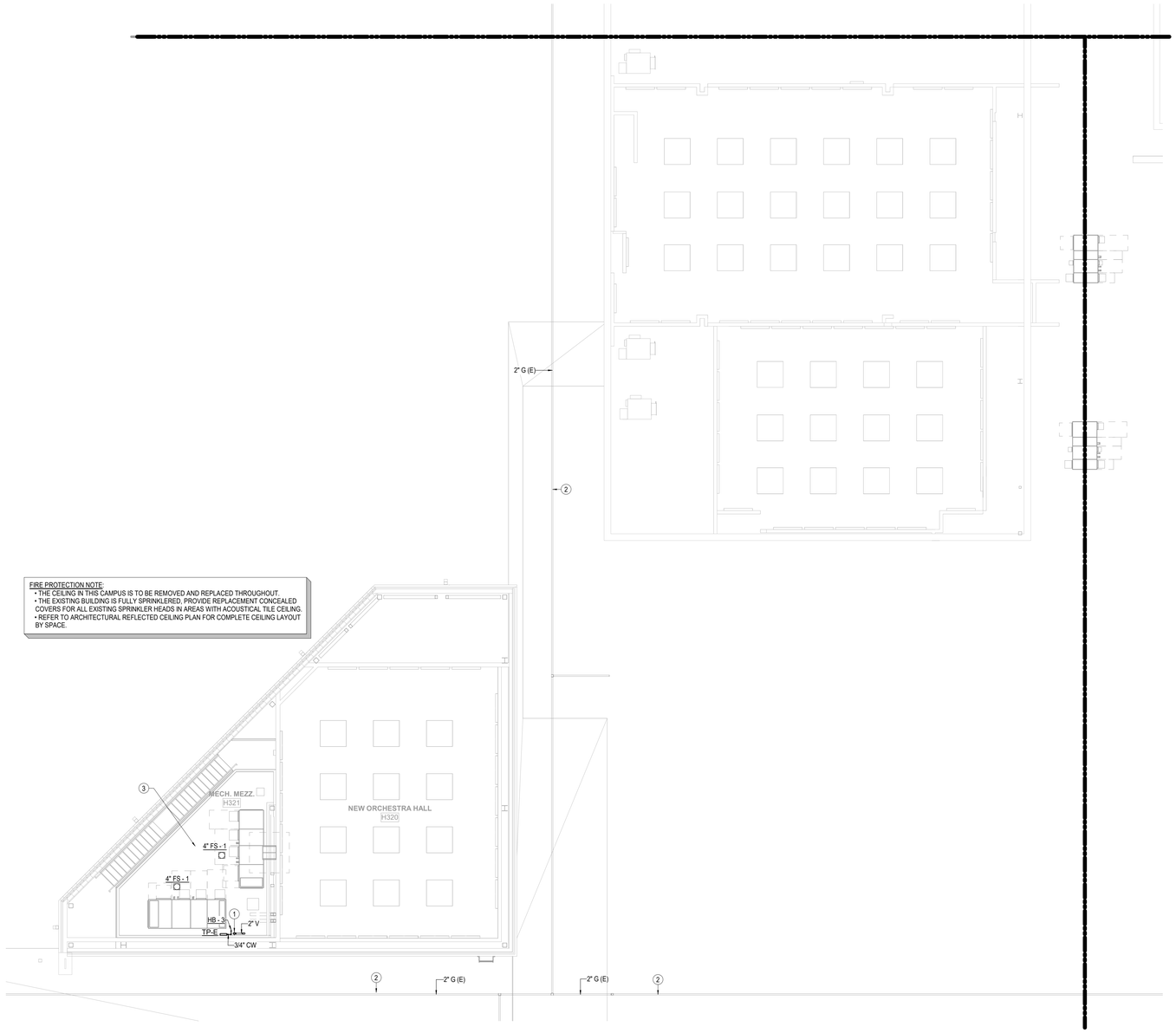
MEZZANINE PLUMBING PLAN - AREA H

P-102H

FOR BLUEBEAM LABELING/OCR:

0"

1"



GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

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M. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

N. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

O. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 3" VENT THRU ROOF.

2 STRIP PAINT AND REPAINT EXISTING NATURAL GAS PIPING AT THE ROOF AND EXTERIOR OF THE BUILDING. ALL NATURAL GAS VALVES ON THE ROOF SHALL BE REPLACED WITH NEW VALVES. CONTRACTOR SHALL FIELD VERIFY EXISTING PRIOR TO COMMENCING ANY WORK.

3 INSPECTOR'S TEST AND DRAIN (TO BE DIRECTED TO EXISTING 4" FLOOR SINK OR 4" FLOOR DRAIN OR 4" CLEANOUT DRAIN WHICHEVER IS PRESENT). CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO COMMENCING ANY WORK.

1 **MEZZANINE PLUMBING PLAN - AREA H**
SCALE: 1/8" = 1'-0"

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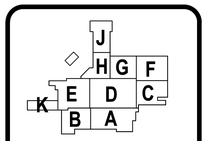
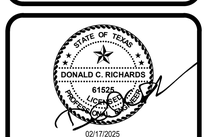


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

MEZZANINE PLUMBING PLAN - AREA H

P-102H

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PLUMBING ROOF PLAN
P-301
FOR BLUEBEAM LABELING:

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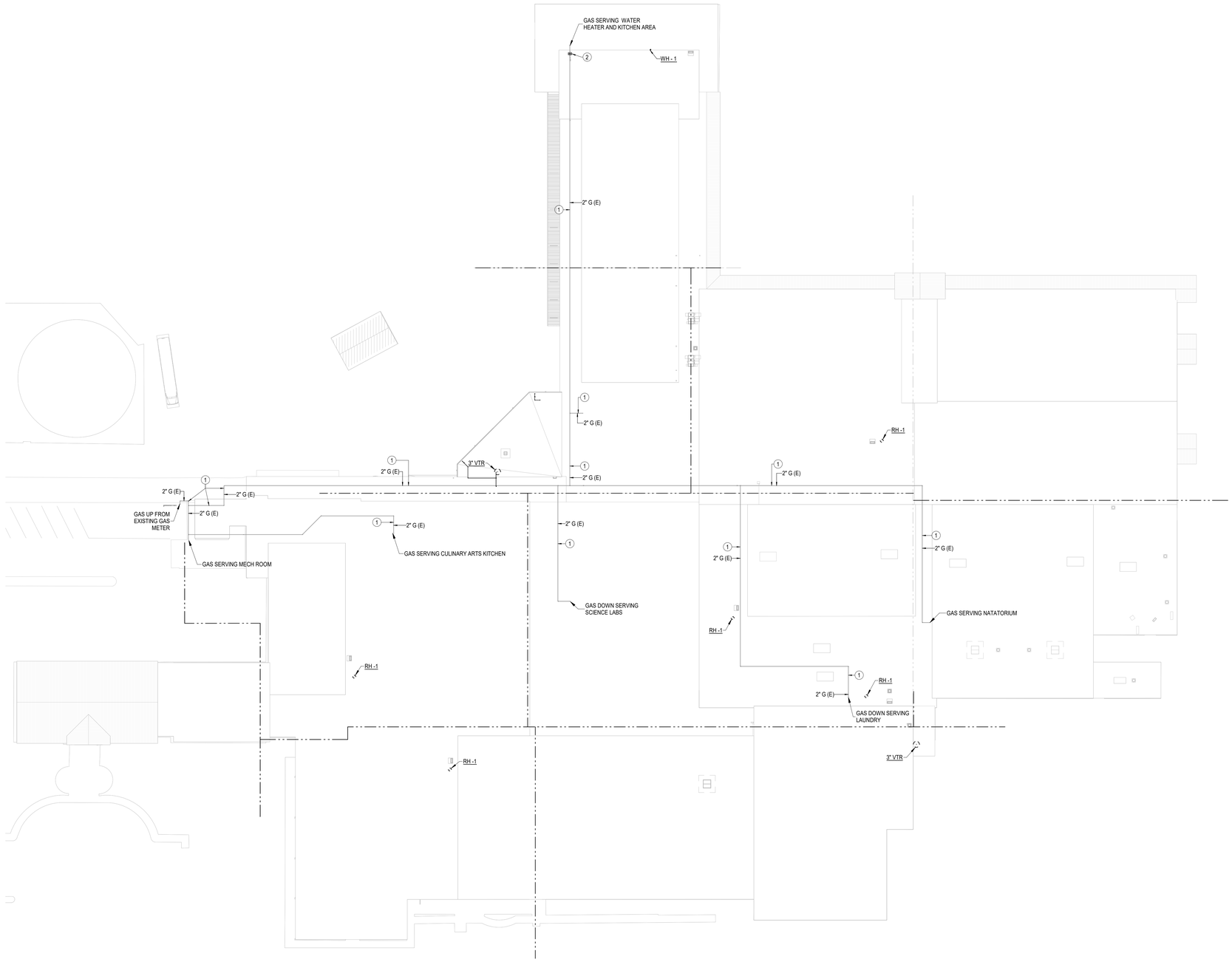

1 **PLUMBING ROOF PLAN**
SCALE: 1" = 30'-0"

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

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KEYNOTES - PLUMBING PLAN

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LEAF ENGINEERS

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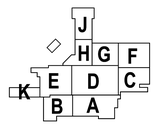
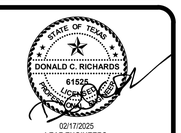


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
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CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

PLUMBING ROOF PLAN

P-301

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PLUMBING SCHEDULES
P-501
FOR BLUEBEAM LABELING/OCR:

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PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	CONNECTION SIZE				REMARKS
		WASTE	VENT	CW	HW	
WC-1	WATER CLOSET, WALL-MOUNTED BOWL W/ 1-1/2" TOP SPUD, 1.28 GPF, ELONGATED RIM, PROVIDE OPEN FRONT SEATLESS COVER AND ADJUSTABLE CARRIER	4"	2"	1-1/2"	-	-
WC-2	WATER CLOSET, SAME AS WC-1 EXCEPT FLUSH VALVE SHALL BE ROUGHED-IN NO MORE THAN 44" AFF W/ CENTER LINE OF FIXTURE 18" FROM FINISHED WALL OR PARTITION, ADA	4"	2"	1-1/2"	-	-
U-1	URINAL, WALL-MOUNTED W/ 3/4" TOP SPUD, HIGH EFFICIENCY 0.125 GPF, MOUNT URINAL RIM AT 24" ABOVE FINISHED FLOOR, PROVIDE FLOOR SUPPORTED URINAL CARRIER	2"	2"	3/4"	-	-
U-2	URINAL, SAME AS U-1 EXCEPT RIM SHALL BE MOUNTED NO HIGHER THAN 17" AFF	2"	2"	3/4"	-	-
L-1	LAVATORY, WALL-MOUNTED, 0.5 GPM W/ AERATOR FAUCET, ZURN Z-8746-CP OFFSET GRID DRAIN, ZURN Z-8802LR-CP ANGLE STOPS W/ Ø3/8" (OD) TUBING, DEARBORN 701-1 17 GA. P-TRAP, TRUEBRO 105W OFFSET INSULATION KIT (NOT REQUIRED IF CABINET APRON IS INSTALLED), ADA, LEAD-FREE	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480
L-2	LAVATORY, SAME AS L-1 EXCEPT RIM SHALL BE MOUNTED NO HIGHER THAN 34" AFF	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480
SK-1	SINK, DROP-IN SINGLE BOWL, TYPE 304 STAINLESS STEEL, WRISTBLADE LEVER HANDLES, 1.5 GPM W/ AERATOR FAUCET, ZURN Z-8746-CP OFFSET GRID DRAIN, ZURN Z-8802LR-CP ANGLE STOPS W/ Ø3/8" (OD) TUBING, DEARBORN 701-1 17 GA. P-TRAP, TRUEBRO 105W OFFSET INSULATION KIT (NOT REQUIRED IF CABINET APRON IS INSTALLED), ADA, LEAD-FREE	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480 • PROVIDE ZURN MODEL Z1180 PLASTER TRAP AT ART ROOM SINKS
SK-2	SINK, DROP-IN DOUBLE BOWL, TYPE 304 STAINLESS STEEL, WRISTBLADE LEVER HANDLES, 1.5 GPM W/ AERATOR FAUCET, ZURN Z-8746-CP OFFSET GRID DRAIN, ZURN Z-8802LR-CP ANGLE STOPS W/ Ø3/8" (OD) TUBING, DEARBORN 701-1 17 GA. P-TRAP, TRUEBRO 105W OFFSET INSULATION KIT (NOT REQUIRED IF CABINET APRON IS INSTALLED), ADA, LEAD-FREE	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480 • PROVIDE ZURN MODEL Z1180 PLASTER TRAP AT ART ROOM SINKS
SK-3	SINK, DROP-IN SINGLE (LARGE) BOWL, TYPE 304 STAINLESS STEEL, WRISTBLADE LEVER HANDLES, 1.5 GPM W/ AERATOR FAUCET, ZURN Z-8746-CP OFFSET GRID DRAIN, ZURN Z-8802LR-CP ANGLE STOPS W/ Ø3/8" (OD) TUBING, DEARBORN 701-1 17 GA. P-TRAP, TRUEBRO 105W OFFSET INSULATION KIT (NOT REQUIRED IF CABINET APRON IS INSTALLED), ADA, LEAD-FREE	2"	2"	3/4"	3/4"	• PROVIDE TEMPERING VALVE SIMILAR TO POWERS HYDROGUARD T/P SERIES E480 • PROVIDE ZURN MODEL Z1180 PLASTER TRAP AT ART ROOM SINKS
SH-1	SHOWER, CONCEALED SUPPLY W/ INTEGRATED THERMOSTATIC MIXING VALVE, INTEGRAL SERVICE STOPS, VANDAL-PROOF SHOWER HEAD W/ WALL BRACKET, 1.5 GPM AERATOR, LEAD-FREE	2"	2"	3/4"	3/4"	-
SH-2	SHOWER, CONCEALED SUPPLY W/ INTEGRATED THERMOSTATIC MIXING VALVE, INTEGRAL SERVICE STOPS, VANDAL-PROOF SHOWER HEAD W/ WALL BRACKET, HAND-HELD SHOWER W/ METAL CLAD HOSE AND GLIDE RAIL, 1.5 GPM AERATOR, ADA, LEAD-FREE	2"	2"	3/4"	3/4"	-
EDF-1	ELECTRIC DRINKING FOUNTAIN, INDOOR BI-LEVEL WALL-MOUNTED W/ BOTTLE FILLER, STAINLESS STEEL FINISH, DEARBORN 704-1 1-1/2" 17 GA. P-TRAP, BRASS CRAFT C2CR19C ANGLE STOP, AQUAFLO SFC-120-PP STAINLESS STEEL FLEX CONNECTORS, CHROME PLATED BUBBLER, SELF-CLOSING MECHANICAL PUSHBUTTON, STREAM REGULATOR, NON-FILTERED, REFRIGERATED, ELECTRICAL, ADA, LEAD-FREE	2"	2"	3/4"	-	-
EW-1	EMERGENCY EYE AND FACE WASH, PEDESTAL MOUNTED, BARRIER FREE, (4) POLYPROPYLENE SPRAY HEADS W/ INTEGRAL DUST COVERS, 1.6 GPM FLOW CONTROL ORIFICES MOUNTED ON A CHROME PLATED BRASS EYEWASH ASSEMBLY, FILTERED, ADA, LEAD-FREE	-	-	3/4"	-	-
EW-2	EMERGENCY SHOWER W/ EYE AND FACE WASH, BARRIER FREE PULL ROD, (4) POLYPROPYLENE SPRAY HEADS W/ INTEGRAL DUST COVERS AT EYE AND FACE WASH, FILTERED, ADA, LEAD-FREE	-	-	3/4"	-	-
SS-1	SERVICE SINK, FLOOR-MOUNTED CORNER TYPE W/ DROP FRONT SINGLE BASIN, SOLID SURFACE MATERIAL (NON-POROUS STONE), INCLUDE HOSE W/ BRACKET AND MOP HANGER, LEAD-FREE	3"	2"	3/4"	3/4"	• PROVIDE SERVICE SINK FAUCET W/ WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT • PROVIDE WITH STAINLESS STEEL WALL GUARDS
FD-1	FLOOR DRAIN, ROUND, ADJUSTABLE NICKEL-BRONZE STRAINER, LACQUERED CAST IRON BODY W/ DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-2
FD-2	FLOOR DRAIN, SQUARE, ADJUSTABLE NICKEL-BRONZE STRAINER, LACQUERED CAST IRON BODY W/ DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, SEDIMENT BUCKET, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
FD-3	FLOOR DRAIN, ROUND, MEDIUM-DUTY ACID RESISTANT COATED INTERIOR AND NICKEL-BRONZE RIM, LACQUERED CAST IRON BODY, SEEPAGE PAN, COMBINATION MEMBRANE FLASHING CLAMP AND FRAME, SEDIMENT BUCKET, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E • PROVIDE 4" FUNNEL DRAIN FOR FREEZER DRAIN ONLY
HD-1	HUB DRAIN, ROUND, MEDIUM-DUTY DURA-COATED CAST IRON STRAINER, LACQUERED CAST IRON BODY, Ø9" TOP DRAIN, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
HD-2	HUB DRAIN, ROUND, ADJUSTABLE MEDIUM-DUTY STAINLESS STEEL STRAINER, STAINLESS STEEL BODY, Ø6" TOP DRAIN, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
FS-1	FLOOR SINK, 8" SQUARE, MEDIUM-DUTY ACID RESISTANT COATED INTERIOR AND NICKEL-BRONZE RIM W/ SECURED 1/2 GRATE, CAST IRON BODY, INTEGRAL SEEPAGE PAN, POLISHED ALUMINUM BOTTOM DOME STRAINER, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
FS-2	FLOOR SINK, 12" SQUARE, LIGHT-DUTY ACID RESISTANT COATED INTERIOR AND NICKEL-BRONZE RIM W/ SECURED 3/4 GRATE, CAST IRON BODY, INTEGRAL SEEPAGE PAN, POLISHED ALUMINUM BOTTOM DOME STRAINER, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
FS-3	FLOOR SINK, 12" SQUARE, LIGHT-DUTY ACID RESISTANT COATED INTERIOR AND NICKEL-BRONZE RIM W/ SECURED 1/2 GRATE, CAST IRON BODY, INTEGRAL SEEPAGE PAN, POLISHED ALUMINUM BOTTOM DOME STRAINER, PUSH ON GASKET OUTLET OR NO HUB OUTLET	SEE PLANS		-	-	• PROVIDE TRAP PRIMER TYPE TP-1 OR TP-E
TP-1	TRAP PRIMER, PRESSURE DROP TYPE, VACUUM BREAKER TRAP PRIMER CONNECTED TO COLD WATER SUPPLY ONLY W/ ISOLATION VALVE, LEAD-FREE	-	-	-	-	-
TP-2	TRAP PRIMER, FLUSH VALVE TYPE, VACUUM BREAKER TRAP PRIMER ATTACHED TO WATER CLOSET FLUSH VALVE, LEAD-FREE	-	-	-	-	-
TP-3	TRAP PRIMER, AUTOMATIC TYPE, INTEGRAL ANTI-SIPHON AIR PORT, CONNECT TRAP PRIMER TO COLD WATER SUPPLY ONLY, LEAD-FREE	-	-	-	-	-
TP-E	TRAP PRIMER, ELECTRIC TYPE, VACUUM BREAKER TRAP PRIMER CONNECTED TO COLD WATER SUPPLY MANIFOLD, SLOW CLOSING 24 VAC SOLENOID VALVE W/ INTEGRAL STRAINER, 120 - 24 VAC TRANSFORMER, LEAD-FREE	-	-	-	-	-
HB-1	HOSE BIBB, WALL-MOUNTED, ENCLOSED IN BOX FLUSH W/ WALL, ANTI-SIPHON WALL FAUCET W/ INTEGRAL BACKFLOW PREVENTER, LEAD-FREE	-	-	3/4"	-	-
HB-2	HOSE BIBB, WALL-MOUNTED, ENCLOSED IN BOX FLUSH W/ WALL, ANTI-SIPHON WALL FAUCET W/ INTEGRAL BACKFLOW PREVENTER, FREEZE-RESISTANT, LEAD-FREE	-	-	3/4"	-	• PROVIDE IN EXTERIOR MECHANICAL SPACES
HB-3	HOSE BIBB, WALL-MOUNTED, EXPOSED, ANTI-SIPHON WALL FAUCET W/ INTEGRAL BACKFLOW PREVENTER, LEAD-FREE	-	-	3/4"	-	• PROVIDE IN INTERIOR MECHANICAL SPACES
WH-1	WALL HYDRANT, WALL-MOUNTED, ENCLOSED IN BOX FLUSH W/ WALL, ANTI-SIPHON WALL HYDRANT W/ INTEGRAL BACKFLOW PREVENTER, FREEZE-RESISTANT, LOCKABLE BOX AND LOOSE TEE KEY TO BE FURNISHED W/ WALL HYDRANT, LEAD-FREE	-	-	3/4"	-	-
WH-2	WALL HYDRANT, WALL-MOUNTED, ENCLOSED IN BOX FLUSH W/ WALL, ANTI-SIPHON WALL HYDRANT W/ INTEGRAL BACKFLOW PREVENTER, FREEZE-RESISTANT, LOCKABLE BOX AND LOOSE TEE KEY TO BE FURNISHED W/ WALL HYDRANT, HOT AND COLD WATER SUPPLY, LEAD-FREE	-	-	3/4"	3/4"	-
WH-3	WALL HYDRANT, WALL-MOUNTED, ENCLOSED IN BOX FLUSH W/ WALL, ANTI-SIPHON WALL HYDRANT W/ INTEGRAL BACKFLOW PREVENTER, FREEZE-RESISTANT, LOCKABLE BOX AND LOOSE TEE KEY TO BE FURNISHED W/ WALL HYDRANT, HOT AND COLD WATER SUPPLY, LEAD-FREE	-	-	3/4"	3/4"	• PROVIDE AT EXTERIOR DOOR LEADING TO BACK OF KITCHEN
RH-1	ROOF HYDRANT, ROOF-MOUNTED, BACKFLOW PROTECTED, ROD GUIDE TO ELIMINATE SIDE PULL, ADJUSTABLE LINK AND POSITIVE LEVER LOCK TENSION, VARIABLE FLOW PLUNGER, FREEZE-RESISTANT, LEAD-FREE	1"	-	1"	-	• ROOF HYDRANT DRAIN, IF APPLICABLE, SHALL BE PIPED TO AN APPROVED WASTE RECEPTOR LOCATION
RVB-1	REFRIGERATOR VALVE BOX, WALL-MOUNTED, STAINLESS STEEL PREFORMED ROUGH-IN BOX FLUSH W/ WALL, INTEGRAL WATER HAMMER ARRESTER, LEAD-FREE	-	-	3/4"	-	-
RVB-2	REFRIGERATOR VALVE BOX, WALL-MOUNTED, STAINLESS STEEL PREFORMED ROUGH-IN BOX FLUSH W/ WALL, INTEGRAL WATER HAMMER ARRESTER, LEAD-FREE	2"	2"	3/4"	3/4"	-
TMV-1	THERMOSTATIC MIXING VALVE, POINT-OF-USE, FLOW CAPACITY BETWEEN 0.35 GPM MINIMUM AND 4 GPM MAXIMUM AT 5 PSI PRESSURE DROP, VOLUME CONTROL SHUT-OFF VALVE ON OUTLET, CHECK VALVE ON INLETS, LEAD-FREE	-	-	3/4"	3/4"	-
TMV-2	THERMOSTATIC MIXING VALVE, HIGH / LOW USE, FLOW CAPACITY BETWEEN 3 GPM MINIMUM AND 14 GPM MAXIMUM AT 5 PSI PRESSURE DROP, VOLUME CONTROL SHUT-OFF VALVE ON OUTLET, CHECK VALVE ON INLETS, LEAD-FREE	-	-	1-1/4"	1-1/4"	-
TMV-3	THERMOSTATIC MIXING VALVE, MASTER FIXTURE BANK USE, FLOW CAPACITY BETWEEN 3 GPM MINIMUM AND 30 GPM MAXIMUM AT 5 PSI PRESSURE DROP, VOLUME CONTROL SHUT-OFF VALVE ON OUTLET, CHECK VALVE ON INLETS, LEAD-FREE	-	-	1-1/4"	1-1/4"	-

NOTES:

1. ROUGH-IN SUPPLY WASTE AND VENT PIPE SIZES INDICATED ARE MINIMUM SIZES SHOWN FOR ROUGH-IN PURPOSES ONLY.
2. COORDINATE WITH FIXTURE MANUFACTURER'S INSTALLATION DRAWINGS FOR PROPER AND CORRECT INSTALLATION OF ALL FIXTURES AND APPURTENANCES.
3. ALL PLUMBING FIXTURES SHALL BE COMPLETELY ROUGH-IN BY THE PLUMBING CONTRACTOR AND SHALL MEET ALL CODES HAVING JURISDICTION.
4. ALL FIXTURES TO BE COMMERCIAL GRADE UNLESS OTHERWISE NOTED.
5. PROVIDE A WATER HAMMER ARRESTER IN PIPING TO ALL FIXTURES AND / OR FIXTURE BANKS.
6. PROVIDE A SHUT-OFF VALVE AT ALL FIXTURES AND / OR FIXTURE BANKS AND AT EACH FLOOR IF FIXTURES AND / OR FIXTURE BANKS ARE STACKED (MULTI-LEVEL).

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LANDSCAPE
CONSULTANT NAME
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STRUCTURAL
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MEP
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FIRE/LIFE
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FOOD SERVICE
CONSULTANT NAME
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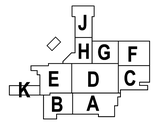
OTHER
CONSULTANT NAME
T.000-000-0000

LEAF ENGINEERS

Arnold Middle School
11111 TEL GEF RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

PLUMBING SCHEDULES

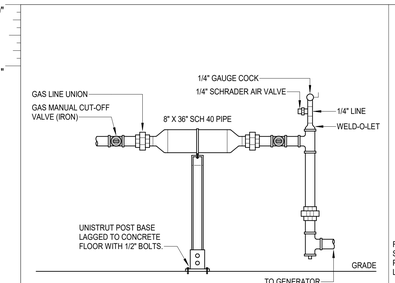
P-501

File Path: Autodesk Docs://CFISD - 2019 Phase IV Projects/P23_220023_CFISD_Arnold MS.rvt

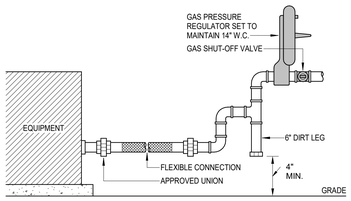
CHECKED BY:
Checker
DRAWN BY:
Author
Plot Stamp:
2/12/2025 6:01:43 PM

PLUMBING DETAILS
P-601
FOR BLUEBEAM LABELING:

ISSUE FOR PROPOSAL



30 GAS ACCUMULATION PIPE AT GENERATOR
N.T.S



24 EQUIPMENT GAS CONNECTION
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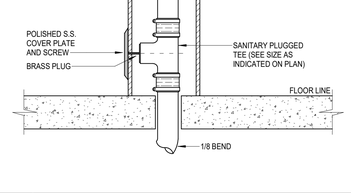
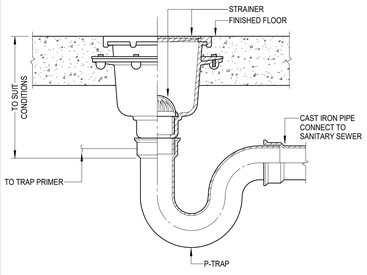
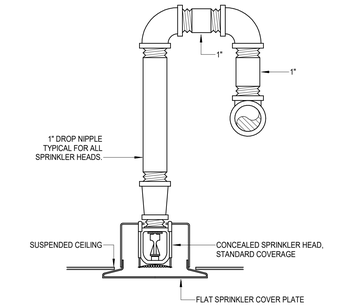


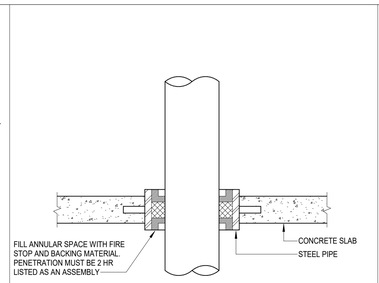
18 WALL CLEANOUT DETAIL
N.T.S



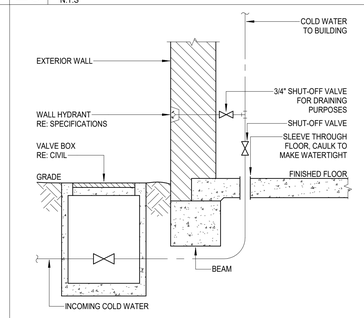
12 FLOOR SINK
N.T.S



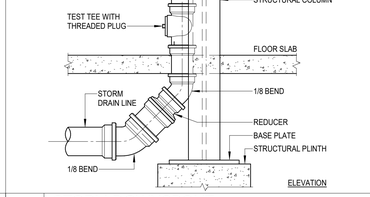
6 CONCEALED SPRINKLER HEAD
N.T.S



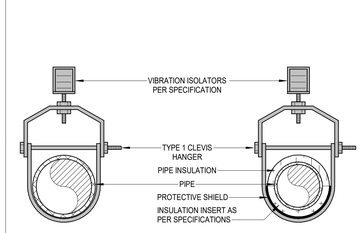
29 UNINSULATED PIPE FLOOR PENETRATION
N.T.S



23 DOMESTIC COLD WATER LINE ENTRY
N.T.S



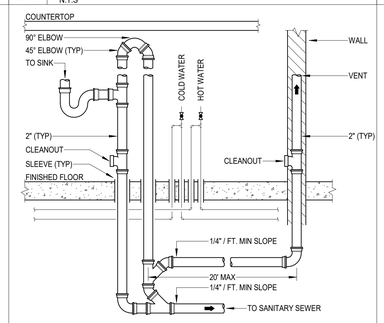
17 STORM DOWNSPOUT
N.T.S



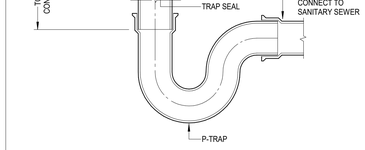
NOTES:
ROUTE PIPING AS LOW AS POSSIBLE TO CEILING GRID FOR EASE OF ACCESSIBILITY

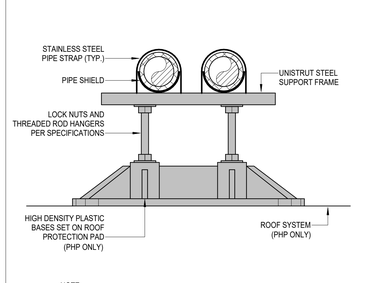
11 SINGLE PIPE TYPE 1 CLEVIS HANGER
N.T.S

28 UNINSULATED PIPE WALL PENETRATION
N.T.S



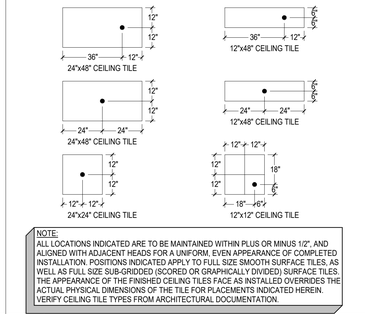
22 SINK CONNECTION ISLAND
N.T.S





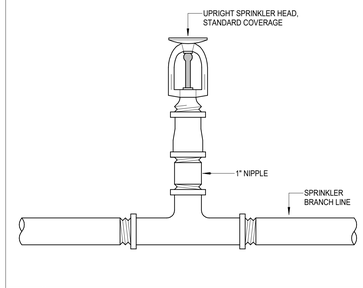
NOTE:
1. SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 10'-0" ON CENTER.

10 ROOF MOUNTED PORTABLE PIPE SUPPORT
N.T.S

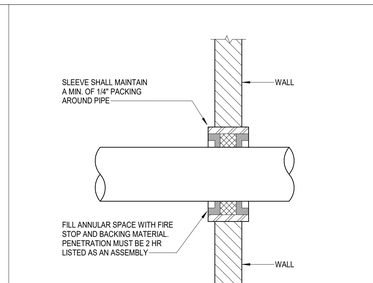


NOTE:
ALL LOCATIONS INDICATED ARE TO BE MAINTAINED WITHIN PLUS OR MINUS 1/2", AND ALIGNED WITH ADJACENT HEADS FOR A UNIFORM, EVEN APPEARANCE OF COMPLETED INSTALLATION. POSITIONS INDICATED APPLY TO FULL SIZE SMOOTH SURFACE TILES, AS WELL AS FULL SIZE SUB-GRIDDED (SCORED OR GRAPHICALLY DIVIDED) SURFACE TILES. THE APPEARANCE OF THE FINISHED CEILING TILES FACE AS INSTALLED OVERRIDES THE ACTUAL PHYSICAL DIMENSIONS OF THE TILE FOR PLACEMENTS INDICATED HEREIN. VERIFY CEILING TILE TYPES FROM ARCHITECTURAL DOCUMENTATION.

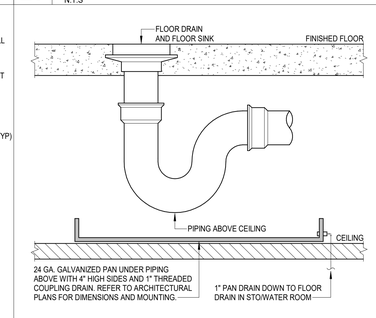
4 SPRINKLER HEAD LOCATIONS
N.T.S



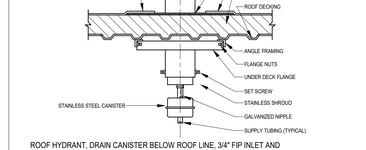
5 UPRIGHT SPRINKLER HEAD
N.T.S



27 INSULATED PIPE FLOOR PENETRATION
N.T.S

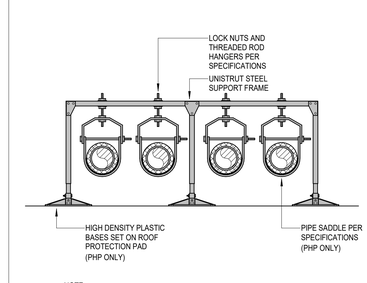


21 DRAIN PAIN DETAIL
N.T.S



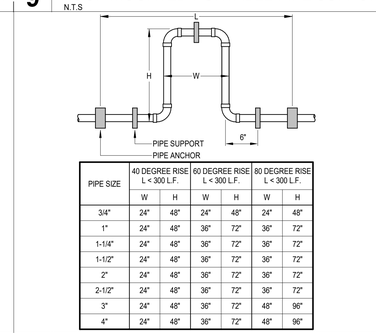
ROOF HYDRANT, DRAIN CANISTER BELOW ROOF LINE, 3/4" FIP INLET AND 3/4" OUTLET HOSE THREAD. 1" SCHEDULE 40 GALVANIZED RISER AND SELF ADJUSTING SOLID BRASS OPERATING ROD. MAPA PRODUCTS #MPH-24-FP. 3/4" COLD WATER. INSTALL WITH OUTLET AT 18" A.F.F OR AS DIRECTED BY ARCHITECT/ OWNER.

15 ROOF HYDRANT DETAIL
N.T.S



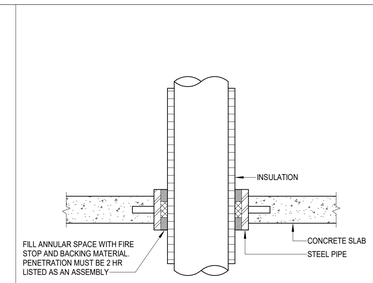
NOTE:
1. SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 10'-0" ON CENTER.

9 ROOF MOUNTED PORTABLE PIPE SUPPORT
N.T.S

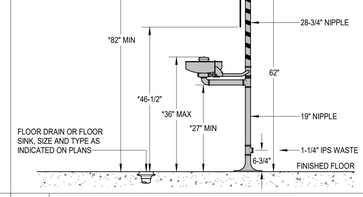


PIPE SIZE	40 DEGREE RISE L < 300 L.F.		60 DEGREE RISE L < 300 L.F.		80 DEGREE RISE L < 300 L.F.	
	W	H	W	H	W	H
3/4"	24"	48"	24"	48"	24"	48"
1"	24"	48"	36"	72"	36"	72"
1-1/4"	24"	48"	36"	72"	36"	72"
1-1/2"	24"	48"	36"	72"	36"	72"
2"	24"	48"	36"	72"	36"	72"
2-1/2"	24"	48"	36"	72"	36"	72"
3"	24"	48"	36"	72"	48"	96"
4"	24"	48"	36"	72"	48"	96"

3 EXPANSION LOOP TABLE
N.T.S

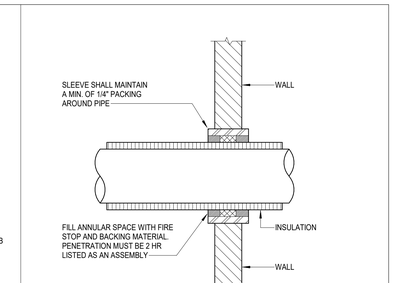


14 BARRIER FREE EYE/FACE WASH
N.T.S



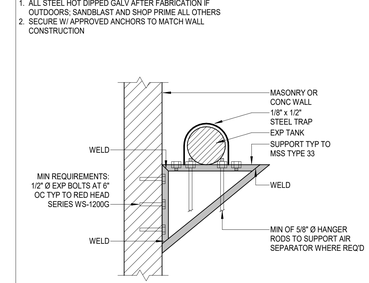
NOTES:
1. REFER TO RISER DIAGRAM FOR PIPE SIZES.

2 SINK CONNECTION AT ISLAND DETAIL
NOT TO SCALE



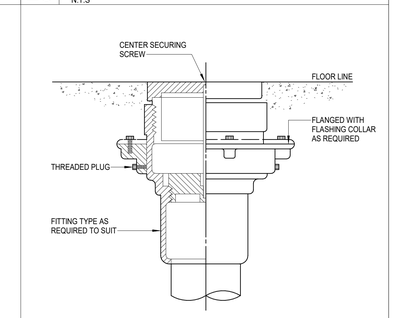
NOTES:
1. COVER TO HAVE LETTERS "CO" CAST ON TOP.
2. CONCRETE REST BLOCK SHALL BE 2'-0" LONG x DIA. OF BARREL +6" ON EACH SIDE.
3. SINGLE OR DOUBLE CLEANOUT REQUIRED AS SHOWN ON PLANS.

20 DOUBLE EXTERIOR CLEANOUT
N.T.S

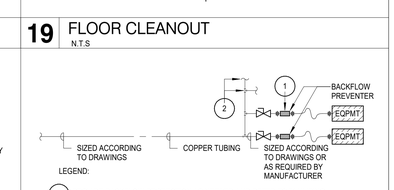


NOTES:
SIZE RODS, SPRING CUSHION, AND HORIZONTAL MEMBER APPROVED TO SATISFY LOAD REQUIREMENT W/ SAFETY FACTOR OF 5

8 PIPE SUPPORT - TRAPEZE TYPE
N.T.S



19 FLOOR CLEANOUT
N.T.S



LEGEND:

1. PROVIDE BACKFLOW PROTECTION AS NEEDED AND REFER TO PLUMBING EQUIPMENT SPECIFICATION 22 30 00 FOR ADDITIONAL BACKFLOW PREVENTER INFORMATION.
2. ROUTE COPPER TUBING TAKE-OFF WITH BACKFLOW PREVENTER AS NEEDED AND SHUT-OFF VALVE TO SERVE EACH APPLIANCE PRIOR TO BACKFLOW PREVENTER.

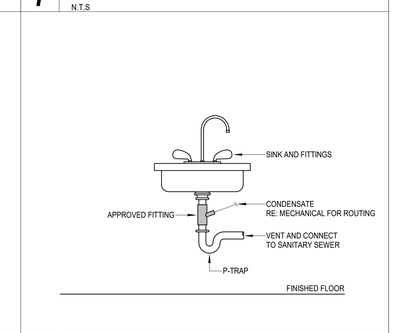
NOTES:

1. PROVIDE AND INSTALL, AT MINIMUM, A TESTABLE DOUBLE BACKFLOW DEVICE AT ALL KITCHEN EQUIPMENT CONNECTED TO THE DOMESTIC WATER SYSTEM.
2. RPZ TYPE BACKFLOW PREVENTER WHERE REQUIRED BY LOCAL CODES.
3. INSTALL IN ACCORDANCE WITH THE AMERICAN SOCIETY OF SANITARY ENGINEERING STANDARD 1013 LATEST ADDITIONS FOR BACKFLOW PREVENTERS.
4. COORDINATE ALL FINAL APPLIANCE SCHEDULE TYPE, LOCATION AND CONNECTION SIZE WITH FOODSERVICE DRAWINGS.

13 WATER KITCHEN APPLIANCE
N.T.S

NOTES:
1. ALL STEEL HOT DIPPED GALV AFTER FABRICATION IF OUTDOORS: SANDBLAST AND SHOP PRIME ALL OTHERS
2. SECURE W/ APPROVED ANCHORS TO MATCH WALL CONSTRUCTION

7 PIPE WALL SUPPORT
N.T.S



1 CONDENSATE TO SINK TAILPIECE
N.T.S

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MEP
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FIRE/LIFE
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FOOD SERVICE
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OTHER
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T 000-000-0000

LEAF ENGINEERS

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429
ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
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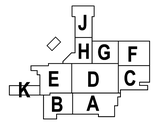


KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

PLUMBING DETAILS

P-601

PLUMBING DETAILS

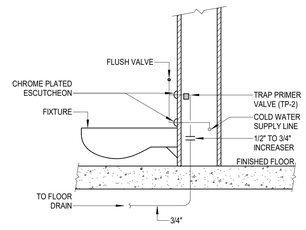
P-602

FOR BLUEBEAM LABELING/OCR:

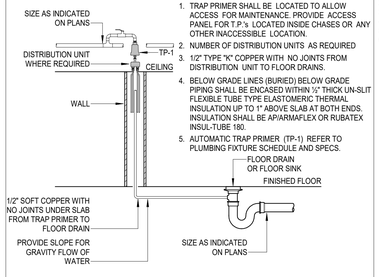
0"

1"

ISSUE FOR PROPOSAL



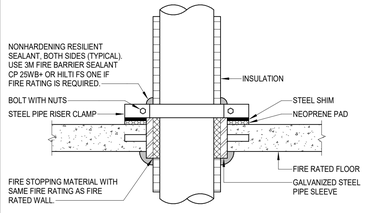
4 TRAP PRIMER (TP-2)
N.T.S

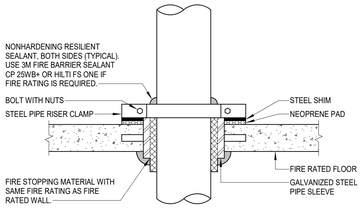


NOTES:
1. TRAP PRIMER SHALL BE LOCATED TO ALLOW ACCESS FOR MAINTENANCE. PROVIDE ACCESS PANEL FOR T.P.'s LOCATED INSIDE CHASES OR ANY OTHER INACCESSIBLE LOCATION.
2. NUMBER OF DISTRIBUTION UNITS AS REQUIRED
3. 1/2" TYPE "K" COPPER WITH NO JOINTS FROM DISTRIBUTION UNIT TO FLOOR DRAINS.
4. BELOW GRADE LINES (BURIED) BELOW GRADE PIPING SHALL BE ENCASED WITHIN ½" THICK UN-SLIT FLEXIBLE TUBE TYPE ELASTOMERIC THERMAL INSULATION UP TO 1" ABOVE SLAB AT BOTH ENDS. INSULATION SHALL BE AP/ARMAFLEX OR RUBATEX INSUL-TUBE 180.
5. AUTOMATIC TRAP PRIMER (TP-1) REFER TO PLUMBING FIXTURE SCHEDULE AND SPECS.

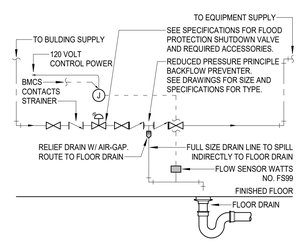
3 TRAP PRIMER (TP-1) W/ DISTRIBUTION
N.T.S

NOTES:
1. REFER TO SPECIFICATIONS FOR INSULATED PIPE RISER SUPPORTS.
2. COORDINATE RISER CLAMP ORIENTATION TO BE WITHIN WALL CAVITY.
3. INSTALL FIRE STOPPING MATERIAL PER MANUFACTURER'S RECOMMENDATION.
4. REFER TO ARCHITECTURAL DRAWING FOR FLOOR FIRE RATING.
5. INSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. C-AJ-5077
6. UNINSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. CA-AJ-1221

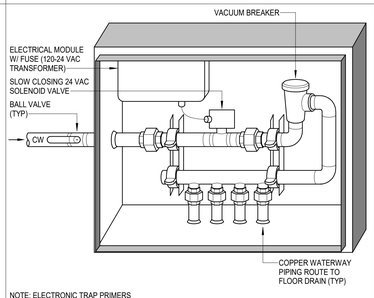




2 TYPICAL PIPE PENETRATION THROUGH FIRE RATED FLOOR
3/8" = 1'-0"



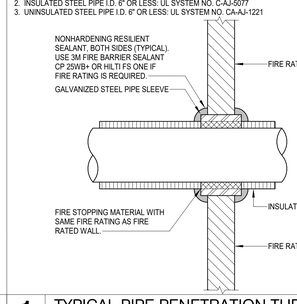
6 RED. PRESSURE BACKFLOW ASSEMBLY
N.T.S

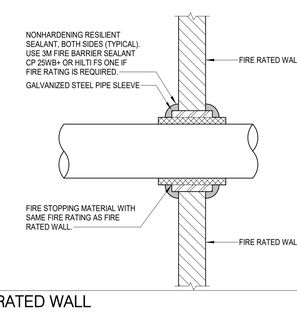


NOTE: ELECTRONIC TRAP PRIMERS SHALL BE USED AS INDICATED IN SPECIFICATIONS AND PLANS.

5 ELECTRONIC TRAP PRIMER (TP-E)
N.T.S

NOTES:
1. REFER TO ARCHITECTURAL DRAWING FOR FIRE WALL RATING.
2. INSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. C-AJ-5077
3. UNINSULATED STEEL PIPE I.D. 6" OR LESS: UL SYSTEM NO. CA-AJ-1221





1 TYPICAL PIPE PENETRATION THROUGH FIRE RATED WALL
3/8" = 1'-0"

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TECHNOLOGY
CONSULTANT NAME
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FOOD SERVICE
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OTHER
CONSULTANT NAME
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LEAF ENGINEERS

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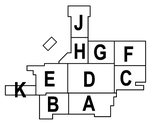
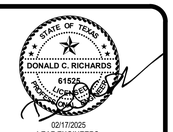


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

PLUMBING DETAILS

P-602

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TECHNOLOGY SYSTEM NOTES AND LEGENDS PG. 1
T-001
FOR BLUEBEAM LABELING OCR:

FINAL PAGE TURN

FINAL

FIRE ALARM LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES		FOOT ADDED TO ANY SYMBOL INDICATES WALL MOUNTED.
		MANUAL FIRE ALARM PULL STATION. INSTALL AT 48" A.F.F. PROVIDE STOPPER II COVER WITH HORN.
		FIRE ALARM SPEAKER, PROVIDE WEATHER RESISTANT MODELS FOR DEVICES INSTALLED ON THE EXTERIOR.
		COMBINATION SPEAKER / STROBE. PROVIDE WEATHER RESISTANT MODELS FOR DEVICES INSTALLED ON THE EXTERIOR.
		VISUAL ALARM STROBE.
	S	SMOKE DETECTOR. NO SUBSCRIPT INDICATES IONIZATION TYPE; "P" INDICATES PHOTOELECTRIC TYPE; "D" INDICATES DUCT TYPE AND PHOTOELECTRIC.
		HEAT DETECTOR; COMBINATION RATE OF RISE AND FIXED TEMPERATURE. "F" INDICATES FIXED TEMPERATURE ONLY; "R" INDICATES RATE OF RISE ONLY. "C" INDICATES RATE COMPENSATION TYPE.
	CO	CARBON MONOXIDE DETECTOR.
	R	AUXILIARY CONTROL RELAY. "2" INDICATES TWO RELAYS REQUIRED FOR FIRE FIGHTER OVERRIDE CONTROL.
	D	FIRE/SMOKE DUCT DAMPER WITH MOTOR ACTUATOR (BY DIV. 15). PROVIDE FIRE ALARM CONTROL RELAYS AND ADDRESSABLE MODULE.
	FATC	TERMINAL CABINET FOR FIRE ALARM SYSTEM WIRING.
	FACP	FIRE ALARM CONTROL PANEL. INSTALL AT 58" TO CENTER OF PANEL / 72" TO TOP OF PANEL.
	FAA	FIRE ALARM ANNUNCIATOR PANEL.
	GV	SPRINKLER SYSTEM GATE VALVE MONITOR SWITCH.
	FS	SPRINKLER SYSTEM WATER FLOW SWITCH.
	TS	TAMPER SWITCH.
	DH	DOOR HOLDER.
	MM	MONITOR MODULE

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS AND BACK BOX REQUIREMENTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.
4. CONTRACTOR SHALL PROVIDE BEAM SMOKE DETECTORS IN ALL HIGH CEILING AREAS AS REQUIRED BY CODE.
5. PROVIDE CLEAR POLYCARBONATE COVER OR WIREGUARD ON ALL DEVICES INSTALLED IN GYMNASIUMS.

SEQUENCE OF OPERATIONS

1. WHEN A FIRE ALARM CONDITION IS DETECTED BY ANY OF THE SYSTEM ALARM INITIATING DEVICES THE CONTROL PANEL MUST RESPOND WITHIN 3 SECONDS, THE FOLLOWING FUNCTIONS OCCUR:
   - A. THE SYSTEM COMMON ALARM LED ON THE CPU MODULE SHALL FLASH. THE INTERNAL AUDIBLE TROUBLE DEVICE SHALL SOUND. ACKNOWLEDGEMENT OR SILENCING THE ALARM CONDITION SHALL SILENCE THE ALARM SIGNALS AND CAUSE FLASHING ALARM LED's TO ILLUMINATE STEADY.
   - B. AN BACK-LIT LCD DISPLAY SHALL INDICATE ALL APPLICABLE INFORMATION ASSOCIATED WITH THE ALARM CONDITION INCLUDING: ZONE, DEVICE TYPE, DIVIDE LOCATION AND TIME OF ALARM. LOCATION AND ZONING MESSAGES SHALL BE CUSTOM FIELD PROGRAMMED TO RESPECTIVE PREMISES. THE ALARM INFORMATION MUST BE STORED IN EVENT MEMORY FOR LATER REVIEW. EVENT MEMORY MUST BE AVAILABLE AT THE MAIN AND ALL REMOTE ANNUNCIATORS.
   - C. ANY REMOTE OR LOCAL ANNUNCIATOR LED's ASSOCIATED WITH THE ALARM ZONE SHALL BE ILLUMINATED AS HEREIN SPECIFIED.
   - D. A THREE CHANNEL DIGITAL ALARM COMMUNICATOR SHALL BE INTEGRALLY PROVIDED AND TRANSMIT TROUBLE AND ALARM SIGNALS TO AN APPROVED REMOTE STATION, (REMOTE STATION CONNECTION AND SERVICE PROVIDED BY OWNER).
   - E. WHEN THE ALARMED DEVICE IS RESTORED TO NORMAL, THE CONTROL PANEL SHALL BE REQUIRED TO BE MANUALLY RESET TO CLEAR THE ALARM CONDITION, EXCEPT THAT THE ALARMS MAY BE SILENCED AS PROGRAMMED.
   - F. AN ALARM SHALL BE SILENCED BY A CODE OR FIREFIGHTER KEY AT THE MAIN OR REMOTE ANNUNCIATORS. WHEN SILENCED, THIS SHALL NOT PREVENT THE RESOUNDING OF SUBSEQUENT EVENTS IF ANY OTHER EVENT SHOULD OCCUR, (SUBSEQUENT ALARM FEATURE). WHEN ALARMS ARE SILENCED THE SILENCED LED ON THE CONTROL PANEL AND ON ANY REMOTE ANNUNCIATORS SHALL REMAIN LIT UNTIL THE ALARMED DEVICE IS RETURNED TO NORMAL.
   - G. ALL AUTOMATIC EVENTS PROGRAMMED TO THE ALARM POINT SHALL BE EXECUTED AND THE ASSOCIATED INDICATING DEVICE AND/OR OUTPUTS ACTIVATED. AS EACH INDICATING CIRCUIT OR CONTROL RELAY IS ACTIVATED, ITS ASSOCIATED "ON" LED SHALL BE ILLUMINATED.
   - H. ACTIVATE ALL AUDIBLE/VISUAL ALARM DEVICES.
   - I. DE-ACTIVATE HVAC SYSTEMS OVER 2000 CFM IN AREA OF ALARM.
   - J. DISPLAY SYSTEM STATUS CHANGES ON THE REMOTE ANNUNCIATOR(S).
   - K. RELEASE ALL SMOKE DOOR, FIRE DOORS, FIRE COILING DOORS, FIRE SMOKE DAMPERS AND FIRE SHUTTERS.

GENERAL FIRE ALARM NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE FIRE ALARM SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABE. THE INSTALLING CONTRACTOR OF EACH SYSTEM SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN 120V POWER REQUIREMENTS FOR ALL REMOTE POWER SUPPLIES. THE GENERAL CONTRACTOR'S LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS. (TYPICAL). ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT. SYSTEM INSTALLERS SHALL COORDINATE LOCATION AND CONNECTION OF CONTROL PANEL AND HEAD END POWER WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
2. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT OR AS NOTED IN NFPA, FIRE ALARM DEVICES SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. VERIFY EXACT HEIGHT WITH ARCHITECT. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED:
   - A. MANUAL FIRE PULL STATIONS - MOUNT AT 42" AFF TO THE TOP OF BOX FOR FRONTAL WHEELCHAIR APPROACH; AND 48" AFF FOR SIDE WHEELCHAIR APPROACH. PULL STATIONS SHALL BE LOCATED THROUGHOUT THE PROTECTED AREA SO THAT THEY ARE UNOBSTRUCTED AND ACCESSIBLE. MOUNT WITHIN 5 FT. OF THE EXIT DOORWAY OPENING AT EACH EXIT ON EACH FLOOR. MOUNT ON BOTH SIDES OF GROUP OPENINGS OVER 40 FT. IN WIDTH. ADDITIONAL
   - B. FIRE ALARM AUDIBLE DEVICES - IF CEILING HEIGHTS ALLOW, WALL-MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90 IN. AND BELOW THE FINISHED CEILINGS AT HEIGHTS OF NOT LESS THAN 6 IN. THIS REQUIREMENT SHALL NOT PRECLUDE CEILING-MOUNTED OR RECESSED APPLIANCES. COMPLY WITH NFPA 72, CHAPTER 4.
   - C. SOUND PRESSURE LEVEL SHALL EXCEED THE PREVAILING EQUIVALENT SOUND IN THE ROOM BY AT LEAST 15 dbA OR EXCEED ANY MAX SOUND LEVEL WITH A DURATION OF 60 SECONDS BY 5 dbA, WHICHEVER IS LOUDER. SOUND LEVELS FOR ALARM SIGNALS SHALL NOT EXCEED 120 dbA.
3. FIRE ALARM VISUAL DEVICES SHALL COMPLY WITH NFPA 72, CHAPTER 4.
   - A. VISUAL APPLIANCES CANDELA SHALL BE THE HIGHEST VALUE ALLOWED BY NFPA TABLE IN ORDER TO INSTALL THE FEWEST NUMBER OF STROBES.
   - B. THE LAMP SHALL BE XENON STROBE TYPE OR EQUIVALENT.
   - C. THE COLOR SHALL BE CLEAR OR NOMINAL WHITE.
   - D. THE MAX. PULSE DURATION SHALL BE TWO TENTHS OF ONE SECOND (0.2 SEC) WITH A MAX. DUTY CYCLE OF 40%. THE PULSE DURATION IS DEFINED AS THE TIME INTERVAL BETWEEN INITIAL AND FINAL POINTS OF 10% MAX. SIGNAL.
   - E. THE INTENSITY SHALL BE A MINIMUM 0F 15 CANDELA.
   - F. THE FLASH RATE SHALL BE A MIN. OF 1Hz AND MAX. OF 3Hz.
4. VISUAL APPLIANCES SHALL BE PLACED 80" ABOVE THE HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. CEILING MOUNTED WERE INDICATED.
5. AT A MINIMUM, VISUAL SIGNALS APPLIANCES SHALL BE PROVIDED IN BUILDINGS AND FACILITIES IN EACH OF THE FOLLOWING AREAS: HALLWAYS, LOBBIES, AND ANY OTHER GENERAL USAGE AREAS.
6. ALL EQUIPMENT AND WORK PERFORMED SHALL COMPLY WITH ALL OF THE CURRENT AND APPLICABLE CODES, RULES, ORDINANCES, REGULATIONS, AND STANDARDS AS INTERPRETED AND ENFORCED BY THE AUTHORITIES HAVING JURISDICTION.
7. PROVIDE POWER FOR REMOTE BATTERY SUPPLIES AND BOOSTER PANELS AS NEEDED. FIRE ALARM CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR CIRCUIT.
8. ALL FIRE ALARM WIRING SHALL ROUTE DOWN CORRIDORS AND WALKWAYS PARALLEL AND PERPENDICULAR TO BUILDING WALLS.
9. ALL FIRE ALARM CABLING SHALL BE SUPPORTED IN DEDICATED CABLE SUPPORTS. DO NOT ROUTE IN OR TIE-WRAP DIRECTLY TO THE BUILDING'S STRUCTURE.
10. CONTRACTOR TO INSTALL RELAYS IN ALL KITCHEN HOOD ANSUL SYSTEMS TO NOTIFY MAIN FIRE ALARM PANEL UPON ACTIVATION.
11. ALL NOTIFICATION APPLIANCE CIRCUIT CABLES AND ALL OTHER FIRE ALARM SYSTEM CABLE SHALL HAVE A RED OUTER JACKET.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ANY CONDUITS AND/OR BOXES REQUIRED FOR THE INSTALLATION FIRE ALARM DEVICES.
13. PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL STUB-OUTS AND SLEEVES TO PREVENT CABLE DAMAGE. BUSHINGS TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.
14. PROVIDE AND INSTALL STOPPER II PROTECTIVE COVERS WITH A LOCAL ALARM FOR ALL MANUAL PULL STATIONS ON THE ENTIRE PROJECT.
15. CONTRACTOR TO PROVIDE CEILING MOUNTED LED NOTIFICATION DEVICES WITH TEST BUTTON FOR ALL DUCT DETECTORS THAT ARE MOUNTED ABOVE CEILING AND/OR IN LOCATIONS NOT VISIBLE FROM THE FLOOR.
16. ALL FIRE ALARM DEVICES ARE NEW UNLESS NOTED OTHERWISE. CONTRACTOR TO CONNECT NEW DEVICES TO NEW FIRE ALARM PANEL AND CONFIGURE PANEL FOR NEW DEVICES AND LAYOUT.
17. CONTRACTOR SHALL PROVIDE AND INSTALL A RELAY FOR EACH FIRE/SMOKE DAMPER ON PROJECT. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
18. CONTRACTOR SHALL PROVIDE DUCT DETECTORS ON ALL AIR HANDLING UNITS RATED ABOVE 2,000 CFM AND PER NFPA. PROVIDE DUCT DETECTORS IN BOTH THE HOT AND COLD DECK ON ALL OF THE AHU UNITS. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF ALL AHUs.
19. CONTRACTOR SHALL PROVIDE ALL CABLING AND DEVICES REQUIRED TO PROVIDE THE SHUT-DOWN OF ALL HVAC AIR HANDLING UNITS UPON THE FIRE ALARM SYSTEM ENTERING ALARM STATE AND START UP OF ALL AIR HANDLING UNITS UPON THE FIRE ALARM SYSTEM BEING RESET TO A NON-ALARM STATE.
20. CONTRACTOR SHALL PROVIDE ALL REQUISITE FIRE ALARM MODULES AND CABLING AS REQUIRED TO PROVIDE CONTROL OF THEATER / AUDITORIUM HOUSE LIGHTS IN ORDER TO BRING THE LIGHTS UP TO 100% IN AN ALARM EVENT. COORDINATE WITH OTHER TRADES.
21. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.
22. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED. MC CABLE, ROMEX, SO CABLES OR OTHER METHODS ARE NOT ACCEPTABLE.
23. CONTRACTOR SHALL PROVIDE SMOKE DETECTION DEVICES ABOVE ALL PARTIAL CEILING IN ALL CORRIDORS AND OTHER SPACES PER NFPA 72.

SECURITY GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. SECURITY CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT AND REMOTE POWER SUPPLIES (TYPICAL)
2. A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL).
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT, SLEEVES, AND PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE SECURITY SYSTEM. PROVIDE ALL CONDUITS REQUIRED AT EXTERIOR DOORS ANNOTATED WITH DOOR CONTACTS OR CARD READERS TO ALLOW FOR INSTALLATION OF DOOR CONTACT POSITION SENSORS AND CARD READERS.
4. SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE.
5. ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4"
6. PROVIDE PROTECTIVE COVER FOR ALL DEVICES IN GYMNASIUM AREAS.
7. ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
8. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.
9. ALL LOW VOLTAGE CABLING SHALL BE INDIVIDUALLY ROUTED TO HEAD END POINT AND SUPPORTED IN PROPER CABLE SUPPORT SYSTEM FOR ENTIRE LENGTH OF RUN.
10. ALL EXTERIOR CAMERAS SHALL BE MOUNTED 12' ABOVE FINISHED GRADE UNLESS OTHERWISE INDICATED.
11. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.
12. CONTRACTOR SHALL CONNECT FREEZER/COOLER SENSORS TO INTRUSION DETECTION HEAD-END FOR EVENT DETECTION. PROVIDE ALL REQUIRED MODULES TO INTERFACE SENSORS.
13. CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE. COORDINATE WITH OWNER FOR FINAL INSTALLATION LOCATION PRIOR TO ROUGH-IN. PROVIDE CAMERA FIELD OF VIEW ADJUSTMENTS. COORDINATE WITH OWNER.
14. CONTRACTOR SHALL INTEGRATE THE INTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM TO PROVIDE THE FUNCTIONALITY OF THE BURGLAR ALARM BEING DISARMED ON AN AUTHORIZED CARD SWIPE AT ANY CARD READER.
15. CONTRACTOR SHALL INTEGRATE THE ACCESS CONTROL, INTRUSION DETECTION AND VIDEO SURVEILLANCE SYSTEMS. PROVIDE ALL REQUIRED MODULES, CABLING AND LICENSES.
16. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.
17. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED. MC CABLE, ROMEX, SO CABLES OR OTHER METHODS ARE NOT ACCEPTABLE.

SECURITY SYSTEMS LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES		WALL MOUNTED MOTION DETECTOR INSTALLED AT 12' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING.
		360 DEGREE CEILING MOUNTED MOTION DETECTOR.
		INTRUSION DETECTION SYSTEM ARM/DISARM KEYPAD WITH LOCKING VANDAL RESISTANT COVER.
	LB	LOCKDOWN BUTTON TO BE TIED TO INTERCOM SYSTEM.
	IDP	INTRUSION DETECTION CONTROL PANELS MOUNTED ON WALL. ELECTRICAL CONTRACTOR TO PROVIDE 120V. POWER TO PANEL. PROVIDE (1) TELEPHONE LINE AND (1) NETWORK CABLE TO PANEL. COORDINATE WITH DISTRICT TECHNOLOGY DEPARTMENT ON ACTIVATING VOICE LINE AND ACQUIRING AN IP ADDRESS.
	CR	ACCESS CONTROL PROXIMITY CARD READER. MOUNT AT 42" A.F.F. PROVIDE ALTRONIX LPD FOR EACH CARD READER.
	DR	DOOR RELEASE BUTTON (TO BE CONNECTED TO DOOR INDICATED).
	DC	DOOR CONTACT. PROVIDE SURFACE MOUNT CONTACT ON ROLL-UP DOORS. PROVIDE DOOR CONTACT ON ALL ROOF HATCHES.
		CEILING MOUNTED GLASS BREAK DETECTOR.
		WALL MOUNTED GLASS BREAK DETECTOR. MOUNT AT 12'-0" A.F.F.
	2N	2N VIDEO INTERCOM WITH CARD READER. 2 GANG EXTRA DEEP BACKBOX WITH SINGLE GANG REDUCER RING MOUNTED AT 48" AFF AND (1) CAT6A DATA CABLE TO THE NEAREST IDF.
	2N	2N VIDEO INTERCOM MASTER STATION. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING AND (1) CAT6A DATA CABLE TO THE NEAREST IDF.
	MS	2N VIDEO MASTER STATION. PROVIDE 2 GANG EXTRA DEEP BACKBOX WITH SINGLE GANG REDUCER RING MOUNTED AT 48" AFF AND (1) CAT6A DATA CABLE TO THE NEAREST IDF.

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.

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LEAF ENGINEERS

Arnold Middle School
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CYPRESS, TX 77429
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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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LICENSED PROFESSIONAL ENGINEER
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LEAF ENGINEERS
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CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

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TECHNOLOGY SYSTEM NOTES AND LEGENDS PG. 1

T-001

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TECHNOLOGY SYSTEM NOTES AND LEGENDS PG. 2
T-002
FOR BLUEBEAM LABELING OR:

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AUDIO & VIDEO GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT. THE INSTALLING CONTRACTOR'S LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS (TYPICAL). ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT.
2. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.
3. ALL EXPOSED WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4".
4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
5. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.
6. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.
7. ALL CABLE SHALL BE ROUTED DOWN CORRIDORS, PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS AND STRUCTURE. CABLE TO EACH DEVICE SHALL BRANCH OFF OF A MAIN CORRIDOR TRUNK. ROUTING CABLES THROUGH CLASSROOMS, OFFICES, STORAGE ROOMS, RESTROOMS OR ANY TYPE OF ROOM OTHER THAN A CORRIDOR WILL NOT BE ACCEPTED. ENTER ALL ROOMS ABOVE THE ASSOCIATED ROOM DOORWAY.
8. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. THE CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. AT LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.
9. ALL EXTERIOR AND WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 10'-0" UNLESS OTHERWISE NOTED.
10. EXTERIOR SPEAKERS SHALL BE ON A SEPARATE LOW VOLTAGE CIRCUIT FROM INTERIOR SPEAKERS.
11. A/V CONTRACTOR SHALL COORDINATE ALL MOUNTING LOCATIONS OF ALL A/V DEVICES TO PROVIDE EVEN AND BALANCED AUDIO COVERAGE OF INTENDED LISTENING AREAS AND UNOBSTRUCTED, SQUARE AND PLUMB VIDEO IMAGE DISPLAYS.
12. ALL LAY-IN CEILING MOUNTED SPEAKERS AND DEVICES SHALL BE INSTALLED UTILIZING A TILE BRIDGE SUPPORT SYSTEM. AT NO POINT SHOULD THE WEIGHT OF A CEILING MOUNTED DEVICE BE SUPPORTED BY A CEILING TILE ALONE.
13. A/V CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL CONDUIT AND BACK BOX REQUIREMENTS.
14. A/V CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES WITH REGARD TO BLOCKING AND PROPER SUPPORT OF ALL A/V DEVICES.
15. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.

INTERCOM AND CLOCK LEGEND

NOTE: EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.

GROUP	SYMBOL	DESCRIPTION
DEVICES	S	INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING. SUBSCRIPT "L" INDICATES A LOCAL SOUND SYSTEM SPEAKER.
	HS	INTERCOM SPEAKER, FLUSH MOUNTED MOUNTED IN WALL. PROVIDE EXTERIOR RATED SPEAKERS INSTALLED ON BUILDING EXTERIOR. SUBSCRIPT "L" INDICATES A LOCAL SOUND SYSTEM SPEAKER.
		SPEAKER VOLUME CONTROL, FLUSH MOUNTED IN WALL. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM.
		INTERCOM CALL BUTTON, FLUSH MOUNTED IN WALL. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM.
	xxx	INTERCOM COMMUNICATIONS CONTROL SYSTEM HANDSET. "ACS" INDICATES ADMINISTRATOR CONTROL SYSTEM HANDSET. "MCS" INDICATES MASTER CONTROL SYSTEM HANDSET. "RCS" INDICATES RESCUE AREA CONTROL SYSTEM HANDSET. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM.
	HC	SINGLE FACE CLOCK. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT CLOCK HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING.
	HC	DOUBLE FACE CLOCK. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT CLOCK HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING.

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.
4. PROVIDE CLEAR POLYCARBONATE COVER OR WIREGUARD ON ALL DEVICES INSTALLED IN GYMNASIUMS.

TECHNOLOGY PLAN GENERAL NOTES

1. STRUCTURED CABLING FOR THIS PROJECT IS OFOI. NOTES AND SYMBOLS ON DRAWINGS ARE FOR COORDINATION PURPOSES ONLY.
2. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION, NETWORK, AUDIO/VIDEO, SECURITY AND FIRE ALARM EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHERE POSSIBLE. CONTRACTOR SHALL COORDINATE AND INSTALL 120V POWER REQUIREMENTS AND LOCATIONS AS REQUIRED FOR ALL EQUIPMENT (TYPICAL).
3. CONTRACTOR SHALL COORDINATE WITH THE TECHNOLOGY CONSULTANT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY INSTALLED WITHOUT WRITTEN APPROVAL OF THE DISTRICT'S IT DEPT.
4. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUITS, PULL STRINGS, BACK BOXES AND SLEEVES REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.
5. THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND DESCRIPTION.
6. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSI/EIA/TIA, BICSI, AND THE NEC.
7. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
8. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
9. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES AND ALL OTHER LOW VOLTAGE CABLING IN ANY PARALLEL OPEN WIRE RUN.
10. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
11. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER THE TECHNOLOGY DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND CONSULTANT.
12. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS AND EXTERIOR MOUNTED DEVICES.
13. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.
14. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.
15. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
16. CONTRACTOR SHALL ROUTE ALL LOW VOLTAGE CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS. ENTER INTO ALL ROOMS FROM THE CORRIDOR ABOVE THE MAIN DOORWAY.
17. ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES AND THEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP ABOVE EACH OUTLET LOCATION.
18. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. CABLING SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. IN LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING IN ANY LOCATION.
19. CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES ROUTED TO THE FIRE ALARM CONTROL PANEL. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
20. ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL RATIO.
21. 21ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.
22. CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES TO THE ACCESS CONTROL HEAD-END. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
23. CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE BUILDING AUTOMATION SYSTEM AT EACH BAS HEAD-END LOCATION. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
24. CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE AREA OF REFUGE SYSTEM. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
25. CONTRACTOR SHALL PROVIDE (1) DATA CABLE FOR EACH IP CAMERA AND IP SPEAKER ROUTED TO NEAREST IDF. COORDINATE WITH OTHER TRADES.
26. CONTRACTOR SHALL PROVIDE (2) DATA CABLES ROUTED TO THE ELEVATOR FOR THE FIRE-FIGHTER TELEPHONE.
27. CONTRACTOR SHALL PROVIDE (1) DATA CABLE TO THE INTRUSION DETECTION SYSTEM HEAD-END

TECHNOLOGY LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	▽	INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACEPLATE WITH A MINIMUM OF 4-PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. PROVIDE BLANK COVERS ON UNUSED PORTS. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF DATA CABLES INSTALLED AT THIS LOCATION. V# INDICATES NUMBER OF EXISTING PHONE LINES AT THIS LOCATION. ALL DATA CABLING AND DEVICES ARE OFOI.
		INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET. CONTRACTOR SHALL MOUNT THIS OUTLET AT + 12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT. D# INDICATES NUMBER OF DATA CABLES INSTALLED AT THIS LOCATION. V# INDICATES NUMBER OF EXISTING PHONE LINES AT THIS LOCATION. ALL DATA CABLING AND DEVICES ARE OFOI.
	⊠	INDICATES THE LOCATION OF A FLOOR MOUNTED OUTLET. CONTRACTOR TO PROVIDE AND INSTALL (2) 1-1/2" CONDUITS FROM BOX TO NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF DATA CABLES INSTALLED AT THIS LOCATION. V# INDICATES NUMBER OF EXISTING PHONE LINES AT THIS LOCATION ALL DATA CABLING AND DEVICES ARE OFOI.
	'LCD'	INDICATES WALL MOUNTED LCD DISPLAY. CONTRACTOR TO PROVIDE AND INSTALL A RACO 260 BOX WITH 2 GANG MUD RING AT 60" A.F.F. WITH (1) 2" CONDUITS STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING AND (1) DATA CABLE ROUTED TO NEAREST IDF. PROVIDE ALL REQUIRED TERMINATION HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDICATED CIRCUIT.
	'W'	INDICATES THE LOCATION OF A WIRELESS MICROPHONE ANTENNA. PROVIDE WIREGUARD ON ALL DEVICES INSTALLED IN GYMNASIUMS. ELECTRICAL CONTRACTOR SHALL PROVIDE 2 GANG EXTRA DEEP BOX, FLUSH MOUNT AT 12' A.F.F.. UNLESS OTHERWISE NOTED. CONNECT (1) 1" CONDUIT ROUTED TO ASSOCIATED SOUND RACK.
	'AP'	INDICATES WIRELESS ACCESS POINT CONNECTION. CONTRACTOR SHALL PROVIDE BOX AND CONDUIT AS NOTED FOR CEILING MOUNTED OUTLETS. PROVIDE (1) 15' PLENUM PATCH CABLE FOR EACH LOCATION INSTALLED. PROVIDE 10' SERVICE LOOP UPSTREAM OF TERMINATION POINT. WALL MOUNTED DEVICES SHALL BE INSTALLED AT 10' A.F.F.
	'MI'	INDICATES THE LOCATION OF AN EXISTING MICROPHONE INPUT.
	'AX'	INDICATES THE LOCATION OF AUXILIARY AUDIO INPUT.
		INDICATES THE LOCATION OF AN EXISTING IP SECURITY CAMERA. FOR WALL MOUNT AND EXTERIOR CAMERAS. ELECTRICAL CONTRACTOR SHALL PROVIDE A SINGLE GANG BOX, FLUSH MOUNT AT 12' A.F.F. WITH 1" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING. TECHNOLOGY CONTRACTOR SHALL REPLACE DATA CABLE AND ROUTE TO NEAREST IDF. PROVIDE A 10' SERVICE LOOP AT EACH END POINT. FOR EXTERIOR CAMERAS, PROVIDE AN RJ45 BISCUIT WITH A TERMINATED WHIP ROUTED TO CAMERA LOCATION. PROVIDE ALL REQUIRED CONNECTORS AND DEVICES TO PROVIDE FULL FUNCTIONALITY OF CAMERA. PROPERLY SEAL BUILDING PENETRATIONS TO PREVENT EXTERIOR ELEMENTS FROM ENTERING BUILDING. SURFACE MOUNTED CONDUITS ARE NOT PERMITTED. DATA CABLING SHALL BE OFOI.
		INDICATES THE LOCATION OF AN NEW IP SECURITY CAMERA. FOR WALL MOUNT AND EXTERIOR CAMERAS. ELECTRICAL CONTRACTOR SHALL PROVIDE A SINGLE GANG BOX, FLUSH MOUNT AT 12' A.F.F. WITH 1" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE A 10' SERVICE LOOP AT EACH END POINT. FOR EXTERIOR CAMERAS, PROVIDE AN RJ45 BISCUIT WITH A TERMINATED WHIP ROUTED TO CAMERA LOCATION. PROVIDE ALL REQUIRED CONNECTORS AND DEVICES TO PROVIDE FULL FUNCTIONALITY OF CAMERA. PROPERLY SEAL BUILDING PENETRATIONS TO PREVENT EXTERIOR ELEMENTS FROM ENTERING BUILDING. SURFACE MOUNTED CONDUITS ARE NOT PERMITTED. DATA CABLING HALL BE OFOI
	HLS	INDICATES WALL MOUNTED LOCAL SOUND SPEAKER. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING @ 12 FT. AFF WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK.
	CM	INDICATES CEILING MOUNTED MICROPHONE. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING FLUSH IN CEILING WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK.
	LS	INDICATES CEILING MOUNTED LOCAL SOUND SPEAKER. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING INSTALLED @ 12" ABOVE CEILING WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK
	'SB1'	INDICATES THE LOCATION OF AN EXISTING SCOREBOARD CONTROL
		INDICATES A NEW WALL-MOUNTED LOCAL SOUND RACK. ELECTRICAL CONTRACTOR SHALL PROVIDE (2) DEDICATED 120V/20A CIRCUITS SPLIT ON A SINGLE QUAD RECEPTACLE.
	'AVI'	INDICATES THE LOCATION OF A TEACHER'S PRESENTATION STATION. PROVIDE A RACO 260 BOX WITH SINGLE GANG REDUCER RING @ 18" AFF. 'AVI' CABLING SHALL BE CFCI AND CONNECTED TO ASSOCIATED 'AVO'. PROVIDE COMPLETE CABLING AND DEVICES BETWEEN AVI AND AVO. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	'AVO'	INDICATES THE LOCATION OF AN AUDIO-VIDEO OUTLET. PROVIDE A RACO 260 BOX WITH SINGLE GANG REDUCER RING @ 18" AFF. PROVIDE COMPLETE CABLING AND DEVICES BETWEEN AVI AND AVO. REFER TO DETAILS FOR ADDITIONAL INFORMATION. CABLING IS CFCI

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.
4. ALL CONDUIT STUB-OUTS SHALL BE EQUIPPED WITH A PLASTIC PROTECTIVE BUSHING TO PREVENT CABLE DAMAGE.
5. ALL CATEGORY AND FIBER CABLE PROVIDED BY OWNER.

RESPONSIBILITY MATRIX

SCOPE ITEM	RESPONSIBILITY			NOTES
COMMUNICATIONS - DIVISION 27	OFOI	CFCI	OFCI	
CATEGORY 6A STRUCTURED CABLING SYSTEM	✓			
VIDEO DISTRIBUTION SYSTEM - SPECIALSPACE		✓		
AUDIO DISTRIBUTION SYSTEM - SPECIAL SPACE		✓		
VIDEO DISTRIBUTION SYSTEM - INSTRUCTIONAL SPACE		✓		
AUDIO DISTRIBUTION SYSTEM - INSTRUCTIONAL SPACE		✓		
PROJECTORS	✓			
PROJECTOR MOUNTS	✓			
FLAT PANEL DISPLAYS	✓			
FLAT PANEL DISPLAY MOUNTS	✓			
INTERACTIVE DISPLAYS	✓			
INTERACTIVE DISPLAY MOUNTS	✓			
DIGITAL SIGNAGE		✓		
POWERED PROJECTION SCREENS		✓		SEE NOTE 3.
BUILDING INTERCOM/PA, BELL, AND CLOCK SYSTEM		✓		
→NETWORK SWITCHES	✓			
NETWORK EQUIPMENT				
→ MDF/IDF NETWORK EQUIPMENT	✓			
→ VOIP TELEPHONES	✓			
→ WIRELESS ACCESS POINTS	✓			
→ UNINTERRUPTABLE POWER SUPPLIES (UPS)	✓			
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		✓		SEE NOTE 1.
ELECTRICAL POWER		✓		SEE NOTE 1.
LIFE SAFETY AND SECURITY - DIVISION 28	OFOI	CFCI	OFCI	
ACCESS CONTROL SYSTEM(ACS)		✓		
INTRUSION DETECTION SYSTEM		✓		
DOOR ACCESS VIDEO INTERCOM SYSTEM		✓		
VIDEO SURVEILLANCE SYSTEM (VSS)				
→VSS SERVERS		✓		
→VSS CAMERAS		✓		
→VSS PROGRAMMING		✓		
→VSS CABLING	✓			SEE NOTE 2.
FIRE ALARM SMOKE DETECTION WITH VOICE EVACUATION		✓		
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		✓		SEE NOTE 6.
ELECTRICAL POWER		✓		SEE NOTE 1.

OFOI - OWNER FURNISHED AND OWNER INSTALLED
CFCI - CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED
OFCI - OWNER FURNISHED AND CONTRACTOR INSTALLED

RESPONSIBILITY MATRIX NOTES:
1. BY DIVISION 26.
2. BY DIVISION 27.
3. BY DIVISION 11.
4. IF SYSTEM REQUIRES NETWORK SWITCH IT SHALL BE OFOI. CONTRACTOR TO COORDINATE WITH OWNER.
5. EXPANSION OF EXISTING SYSTEM.
6. ALL CORING AND SLEEVES FOR STRUCTURED CABLING SHALL BE OFOI. NOT TO BE USED BY ANY OTHER TRADE.

TECHNOLOGY SYSTEM NOTES AND LEGENDS PG. 2
SCALE: 12" = 1'-0"

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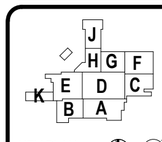

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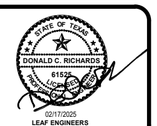

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TECHNOLOGY SYSTEM NOTES AND LEGENDS PG. 2

T-002

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TECHNOLOGY SITE PLAN

T-101

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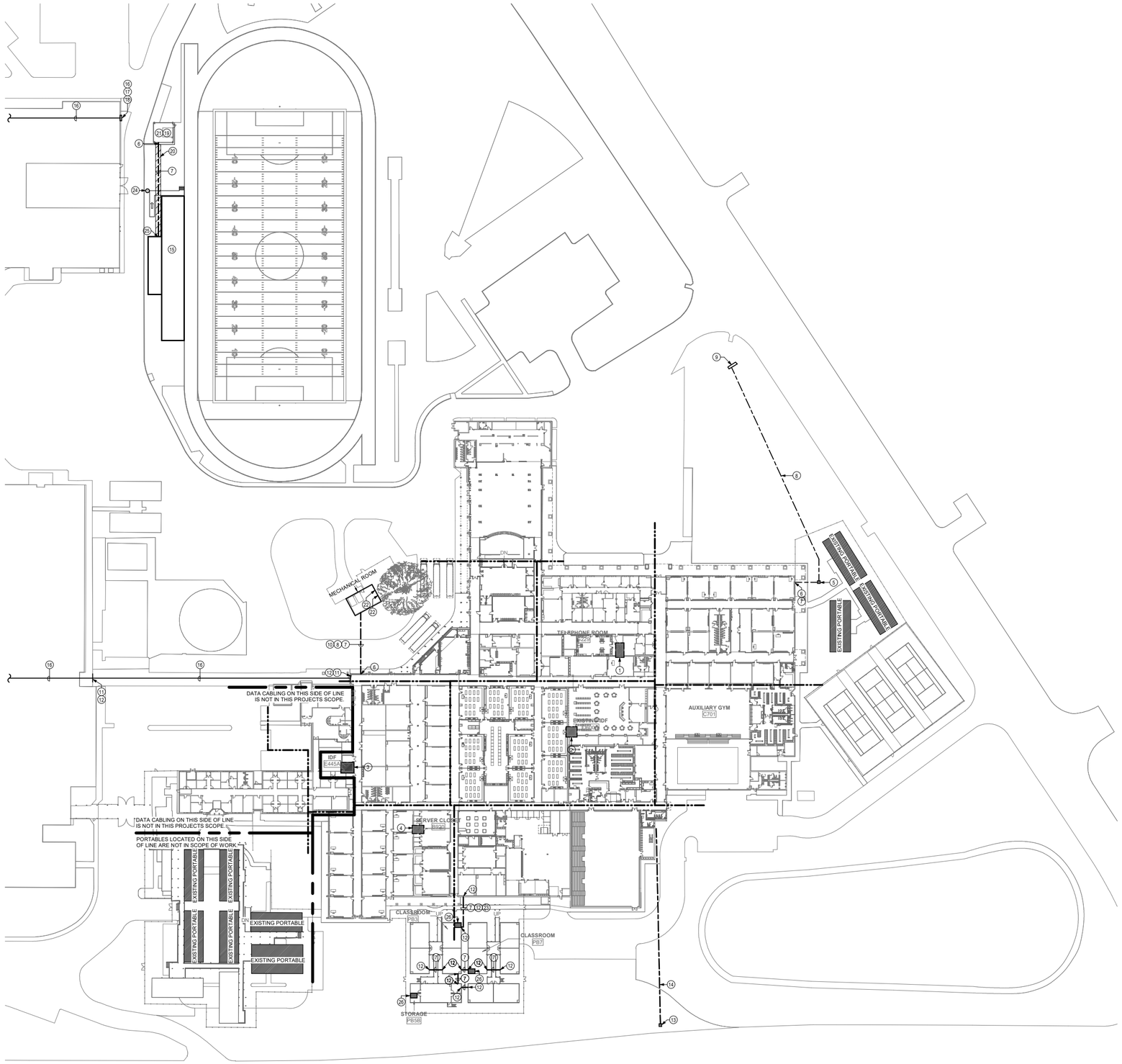

1 **TECHNOLOGY SITE PLAN - COMPOSITE**
SCALE: 1" = 50'-0"

TECHNOLOGY SITE PLAN GENERAL NOTES

A. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2025.

B. ALL CONDUITS AND PULL BOXES SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

C. CONDUIT PATHWAYS AND PULL BOX LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY PROPER PATHWAYS AND LOCATIONS PRIOR TO INSTALLATION.

D. COORDINATE ROUTING FOR ALL UNDERGROUND LOW VOLTAGE CONDUITS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.

E. ALL IN GROUND PULL BOXES SHALL BE EQUIPPED WITH A 48" DEEP GRAVEL, DRY WELL TO ALLOW FOR DRAINAGE. SEE CIVIL PLANS FOR DETAILS.

F. THE TECHNOLOGY CABLING CONTRACTOR SHALLSEALL ALL OPEN CONDUIT ENDS WITH A PERMAGUM SEALING COMPOUND / GUM AFTER CABLING IS INSTALLED.

G. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

H. ALL SYSTEMS IN THE EXISTING MDF SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

I. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS ON ALL ITEMS LISTED BELOW.

TECHNOLOGY SITE PLAN KEYED NOTES

1 INDICATES LOCATION OF THE EXISTING MDF IN ROOM G229.
2 INDICATES LOCATION OF THE EXISTING IDF D600A.
3 INDICATES LOCATION OF THE EXISTING IDF E445A.
4 INDICATES LOCATION OF THE EXISTING IDF SERVER CLOSET B920.
5 PROVIDE 24"X 24" X 24" CONCRETE PULL BOX INSTALLED FLUSH WITH GRADE FOR TELECOM SYSTEMS. PROVIDE WIDE SWEEPING TURNS ON ALL CONDUIT ENTERING AND EXITING BOX AS WELL AS ALL CONDUIT TURNS ALONG ROUTE. TYPICAL FOR ALL LOCATIONS SHOWN.
6 THE CONTRACTOR SHALL PENETRATE BUILDING ABOVE ACCESSIBLE CEILING. PROVIDE AND INSTALL A NEMA4 ENCLOSURE WITH WEATHERPROOF SEAL PER STATE AND FEDERAL BUILDING CODES.
7 THE CONTRACTOR SHALL PROVIDE (2) NEW 2" UNDERGROUND CONDUITS FOR LOW VOLTAGE AND DATA.
8 THE CONTRACTOR SHALL PROVIDE (1) NEW 1" UNDERGROUND CONDUIT AS A SPARE FOR FUTURE.
9 INDICATES LOCATION OF THE MARQUEE SIGN.
10 THE FIRE ALARM CONTRACTOR SHALL EXTEND THE FIRE ALARM SYSTEM NOTIFICATION AND SLC CIRCUITS TO THE MECHANICAL ROOM. PROVIDE JUNCTION BOXES, ENCLOSURES, AND SURGE PROTECTION AS REQUIRED TO MEET NFPA 72 AND LOCAL AHJ CODES.
11 PROVIDE WALL SLEEVES AT BOTH ENDS BENEATH BREEZEWAY.
12 PROVIDE AND INSTALL A 12"X12"X 6" NEMA4 ENCLOSURE MOUNTED ABOVE CEILING LEVEL.
13 INDICATES THE LOCATION OF AN EXISTING PULL BOX.
14 INDICATES THE LOCATION OF AN EXISTING UNDERGROUND FIBER CONDUIT.
15 INDICATES THE EXISTING ARNOLD MIDDLE SCHOOL PRESSBOX.
16 PROVIDE AND INSTALL A NEW 12-STRAND SINGLE MODE FIBER CABLE FROM ARNOLD MIDDLE SCHOOL MDF TO EXISTING ARNOLD PRESSBOX IDF. THE CONTRACTOR SHALL ROUTE NEW FIBER IN A NEW 2" CONDUIT UNDER THE BREEZEWAY INTO CY-FAIR HIGH SCHOOL AND FREE-WIRE DOWN CORRIDOR THROUGH AG SHOP TO THE EXISTING PRESS-BOX PATHWAY.
17 INDICATES THE LOCATION OF (2) EXISTING UNDERGROUND PATHWAYS FOR LOW VOLTAGE AND DATA CABLING.
18 INDICATES AN EXISTING "ABOVE-CEILING" NEMA ENCLOSURE FOR LOW VOLTAGE AND DATA CABLING.
19 INDICATES THE LOCATION OF A NEW FOOTBALL STORAGE UNIT.
20 INDICATES AN AREA TO BE SAWCUT FOR UNDERGROUND PATHWAY FROM PRESSBOX.
21 THE SECURITY CONTRACTOR SHALL EXTEND ARNOLD MIDDLE SCHOOL'S EXISTING PRESS BOX SECURITY SYSTEM TO THIS LOCATION. PROVIDE DOOR CONTACTS ON ALL DOORS AND WINDOWS AND INCLUDE MOTION DETECTION. ALL LOW VOLTAGE CABLING SHALL BE HOUSED IN A CFCI NEMA ENCLOSURE.
22 INDICATES AN AUTOMATIC TRANSFER SWITCH THAT IS TO BE MONITORED BY THE INTRUSION DETECTION SYSTEM. PROVIDE AND INSTALL MONITOR MODULE AND CONNECT TO ARNOLD MIDDLE SCHOOL'S EXISTING INTRUSION DETECTION SYSTEM.
23 PROVIDE AND INSTALL A NEW 12-STRAND SINGLE MODE FIBER CABLE ORIGINATING FROM ARNOLD MIDDLE SCHOOL MDF.
24 INDICATES THE LOCATION OF AN EXISTING LIGHT POLE THAT IS TO REMAIN.
25 THE CONTRACTOR SHALL STUBB NEW CONDUITS UP TO PRESS BOX THROUGH FLOOR AND TO EXISTING DATA RACK.
26 INDICATES THE LOCATION OF A NEW OFOI IDF WALL CABINET.

CONDUIT LEGEND

- EXISTING UNDERGROUND PULLBOX (SIGNAL)
- NEW UNDERGROUND PULLBOX (SIGNAL)
- EXISTING UNDERGROUND CONDUIT TRENCH
- NEW UNDERGROUND CONDUIT TRENCH
- EXISTING OVERHEAD / BUILDING CONDUIT
- NEW OVERHEAD / BUILDING CONDUIT
- DEMO UNDERGROUND CONDUIT TRENCH

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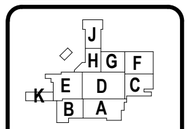

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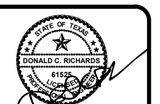

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TECHNOLOGY SITE PLAN

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1ST LEVEL FIRE ALARM PLAN - COMPOSITE

TF-101

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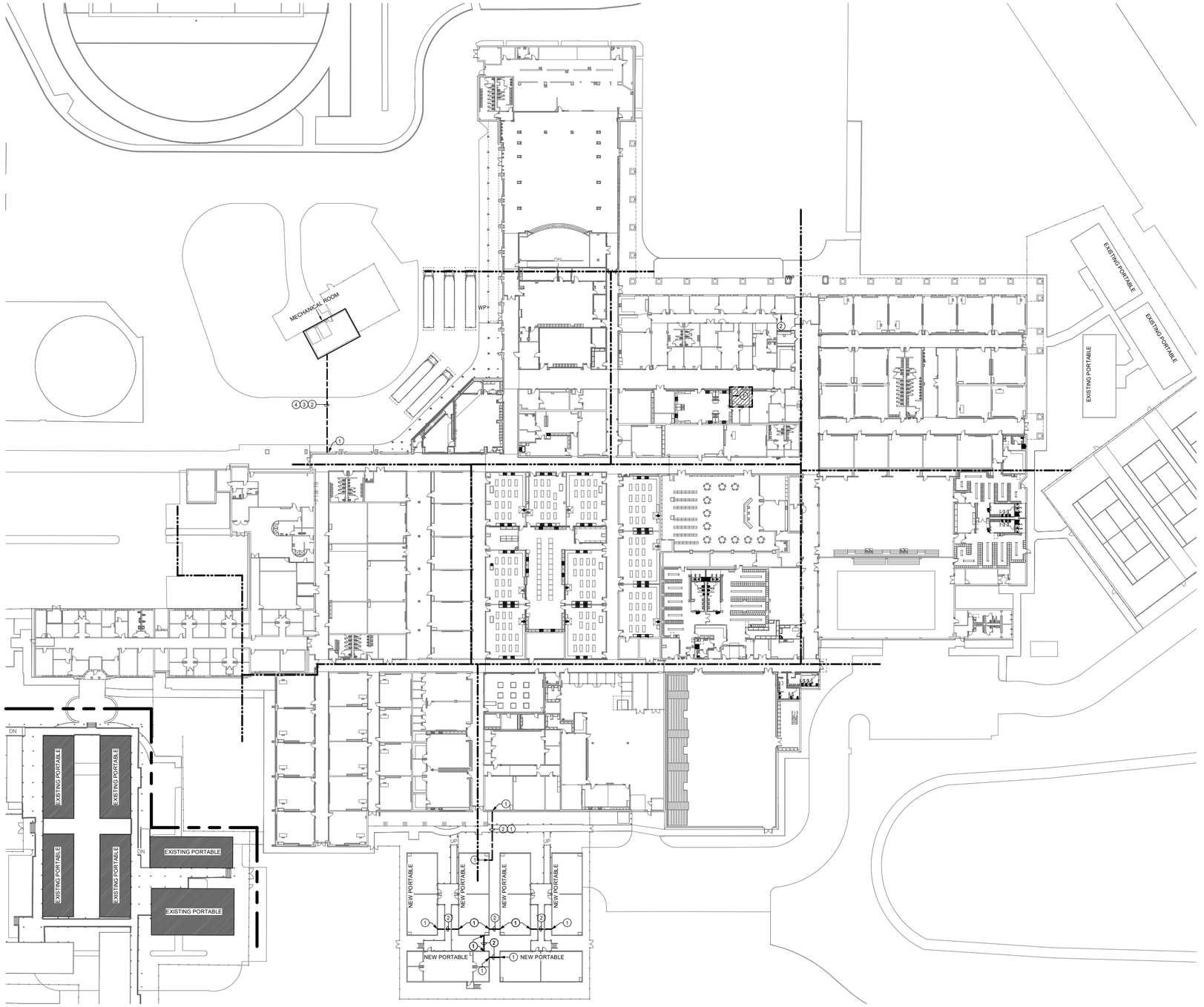

1 1ST LEVEL FIRE ALARM PLAN - COMPOSITE
SCALE: 1/32" = 1'-0"

FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

B. THE CONTRACTOR SHALL REMOVE THE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY. PLACE WALLPLATES ON ALL UNUSED JUNCTION BOXES AND PAINT TO MATCH WALL. REPLACE DAMAGED CEILING TILES WITH NEW MATCHING CEILING TILES.

C. THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO THE EXISTING BUILDING AUTOMATION SYSTEM.

D. THE CONTRACTOR IS LIABLE FOR ANY DAMAGE SUSTAINED TO EXISTING SYSTEMS AND UTILITIES OCCURRED DURING CONSTRUCTION.

E. THE FIRE ALARM SHALL SYSTEM SHALL CONNECT AS AN INPUT TO THE BAS.

F. PROVIDE IN BID ADDITIONAL (3) SPEAKER STROBES, (3) SMOKE DETECTORS, (3) DUCT DETECTORS, WITH ASSOCIATE WIRING AND PROGRAMMING. LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(F) FIRE ALARM KEYED NOTES

1 PROVIDE AND INSTALL A 12"X12"X 6" NEMA4 ENCLOSURE MOUNTED ABOVE CEILING LEVEL.

2 THE CONTRACTOR SHALL PROVIDE (2) NEW 2" UNDERGROUND CONDUITS FOR LOW VOLTAGE AND DATA.

3 THE FIRE ALARM CONTRACTOR SHALL EXTEND THE FIRE ALARM SYSTEM NOTIFICATION AND SLC CIRCUITS TO THE MECHANICAL ROOM. PROVIDE JUNCTION BOXES, ENCLOSURES, AND SURGE PROTECTION AS REQUIRED TO MEET NFPA 72 AND LOCAL AHJ CODES.

4 THE CONTRACTOR SHALL PROVIDE (1) NEW 1" UNDERGROUND CONDUIT AS A SPARE FOR FUTURE.

CONDUIT LEGEND

- EXISTING UNDERGROUND PULLBOX (SIGNAL)
- NEW UNDERGROUND PULLBOX (SIGNAL)
- EXISTING UNDERGROUND CONDUIT TRENCH
- NEW UNDERGROUND CONDUIT TRENCH
- EXISTING OVERHEAD / BUILDING CONDUIT
- NEW OVERHEAD / BUILDING CONDUIT
- DEMO UNDERGROUND CONDUIT TRENCH

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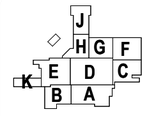

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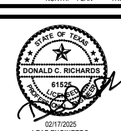

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1ST LEVEL FIRE ALARM PLAN - COMPOSITE

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1ST LEVEL FIRE ALARM PLAN - AREA A

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FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

B. THE CONTRACTOR SHALL REMOVE THE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY. PLACE WALLPLATES ON ALL UNUSED JUNCTION BOXES AND PAINT TO MATCH WALL. REPLACE DAMAGED CEILING TILES WITH NEW MATCHING CEILING TILES.

C. THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO THE EXISTING BUILDING AUTOMATION SYSTEM.

D. THE CONTRACTOR IS LIABLE FOR ANY DAMAGE SUSTAINED TO EXISTING SYSTEMS AND UTILITIES OCCURRED DURING CONSTRUCTION.

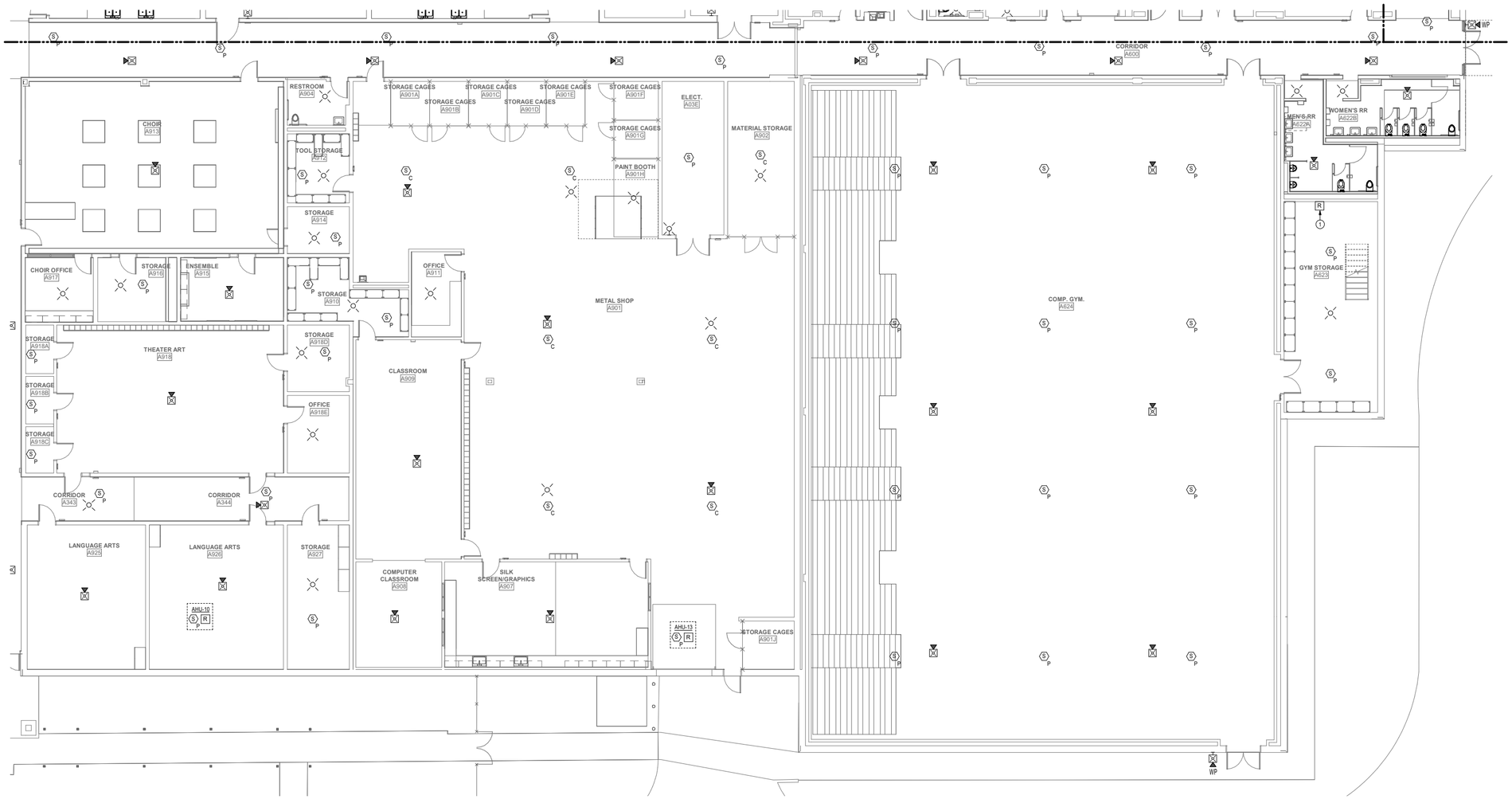
E. THE FIRE ALARM SHALL SYSTEM SHALL CONNECT AS AN INPUT TO THE BAS.

F. PROVIDE IN BID ADDITIONAL (3) SPEAKER STROBES, (3) SMOKE DETECTORS, (3) DUCT DETECTORS, WITH ASSOCIATE WIRING AND PROGRAMMING. LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(#) FIRE ALARM KEYED NOTES

1 PROVIDE AND INSTALL CONTROL RELAY FOR LOCAL SOUND SYSTEM.



1 **1ST LEVEL FIRE ALARM PLAN - AREA A**
SCALE: 1/8" = 1'-0"

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KEY PLAN
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1ST LEVEL FIRE ALARM PLAN - AREA A

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1ST LEVEL FIRE ALARM PLAN - AREA A PORTABLES

TF-101A.1

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FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

B. THE CONTRACTOR SHALL REMOVE THE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY. PLACE WALLPLATES ON ALL UNUSED JUNCTION BOXES AND PAINT TO MATCH WALL. REPLACE DAMAGED CEILING TILES WITH NEW MATCHING CEILING TILES.

C. THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO THE EXISTING BUILDING AUTOMATION SYSTEM.

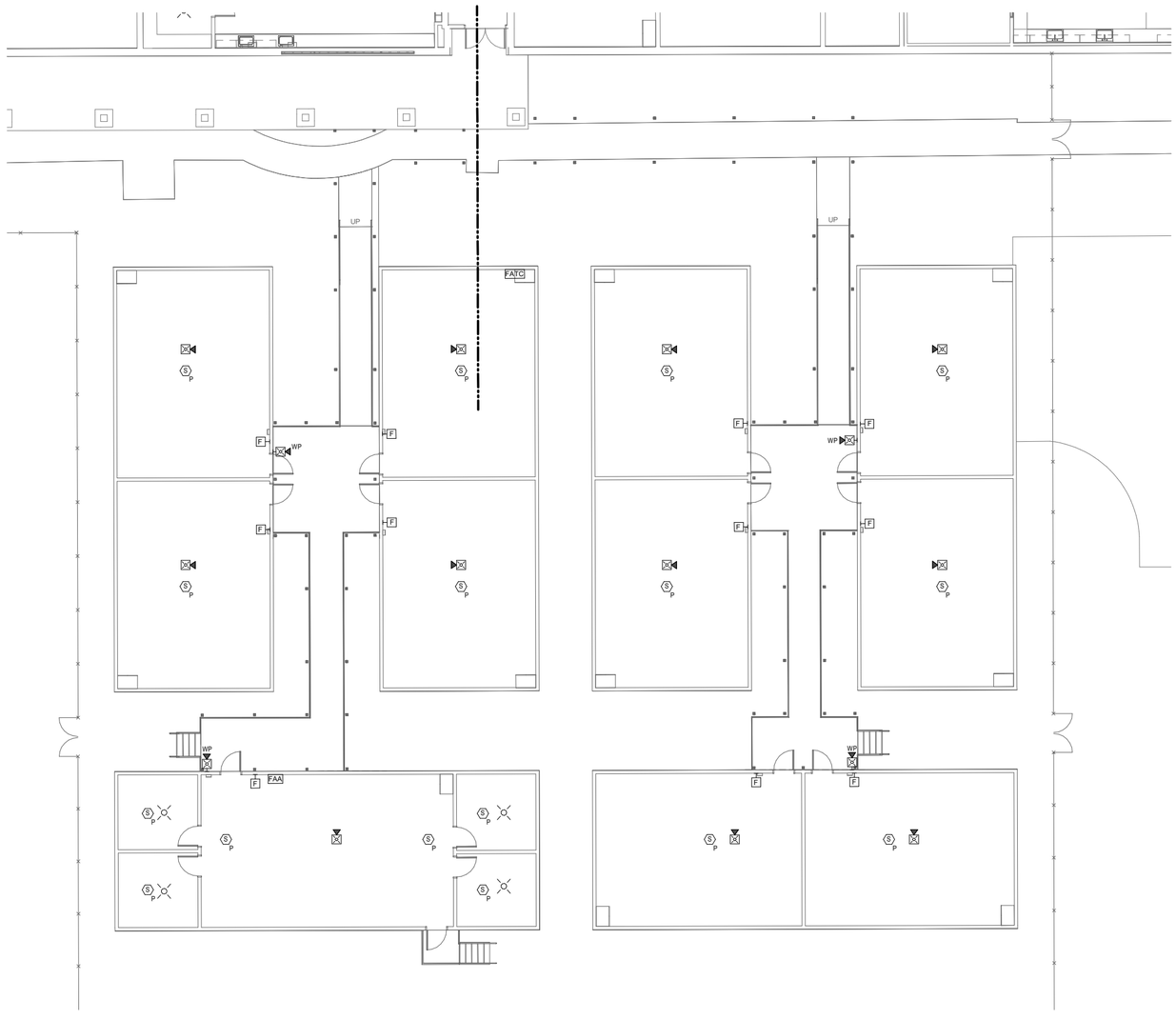
D. THE CONTRACTOR IS LIABLE FOR ANY DAMAGE SUSTAINED TO EXISTING SYSTEMS AND UTILITIES OCCURRED DURING CONSTRUCTION.

E. THE FIRE ALARM SHALL SYSTEM SHALL CONNECT AS AN INPUT TO THE BAS.

F. PROVIDE IN BID ADDITIONAL (3) SPEAKER STROBES, (3) SMOKE DETECTORS, (3) DUCT DETECTORS, WITH ASSOCIATE WIRING AND PROGRAMMING. LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(#) FIRE ALARM KEYED NOTES



1 **1ST LEVEL FIRE ALARM PLAN - AREA A PORTABLES**
SCALE: 1/8" = 1'-0"

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TX Firm: BR 1608

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LEAF ENGINEERS

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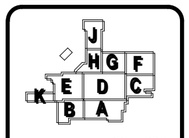
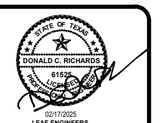
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE



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DATE	PROJECT NUMBER
02/17/2025	220023

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BUILDING NUMBER

1ST LEVEL FIRE ALARM PLAN - AREA A PORTABLES

TF-101A.1

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1 **1ST LEVEL FIRE ALARM PLAN - AREA B**
SCALE: 1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

B. THE CONTRACTOR SHALL REMOVE THE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY. PLACE WALLPLATES ON ALL UNUSED JUNCTION BOXES AND PAINT TO MATCH WALL. REPLACE DAMAGED CEILING TILES WITH NEW MATCHING CEILING TILES.

C. THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO THE EXISTING BUILDING AUTOMATION SYSTEM.

D. THE CONTRACTOR IS LIABLE FOR ANY DAMAGE SUSTAINED TO EXISTING SYSTEMS AND UTILITIES OCCURRED DURING CONSTRUCTION.

E. THE FIRE ALARM SHALL SYSTEM SHALL CONNECT AS AN INPUT TO THE BAS.

F. PROVIDE IN BID ADDITIONAL (3) SPEAKER STROBES, (3) SMOKE DETECTORS, (3) DUCT DETECTORS, WITH ASSOCIATE WIRING AND PROGRAMMING. LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(F) FIRE ALARM KEYED NOTES

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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
J H G F
K E D C
B A
NORTH PLAN TRUE

STATE OF TEXAS
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LEAF ENGINEERS
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DATE	PROJECT NUMBER
02/17/2025	220023

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No.	Description	Date

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BUILDING NUMBER

1ST LEVEL FIRE ALARM PLAN - AREA B

TF-101B

1ST LEVEL FIRE ALARM PLAN - AREA B
TF-101B
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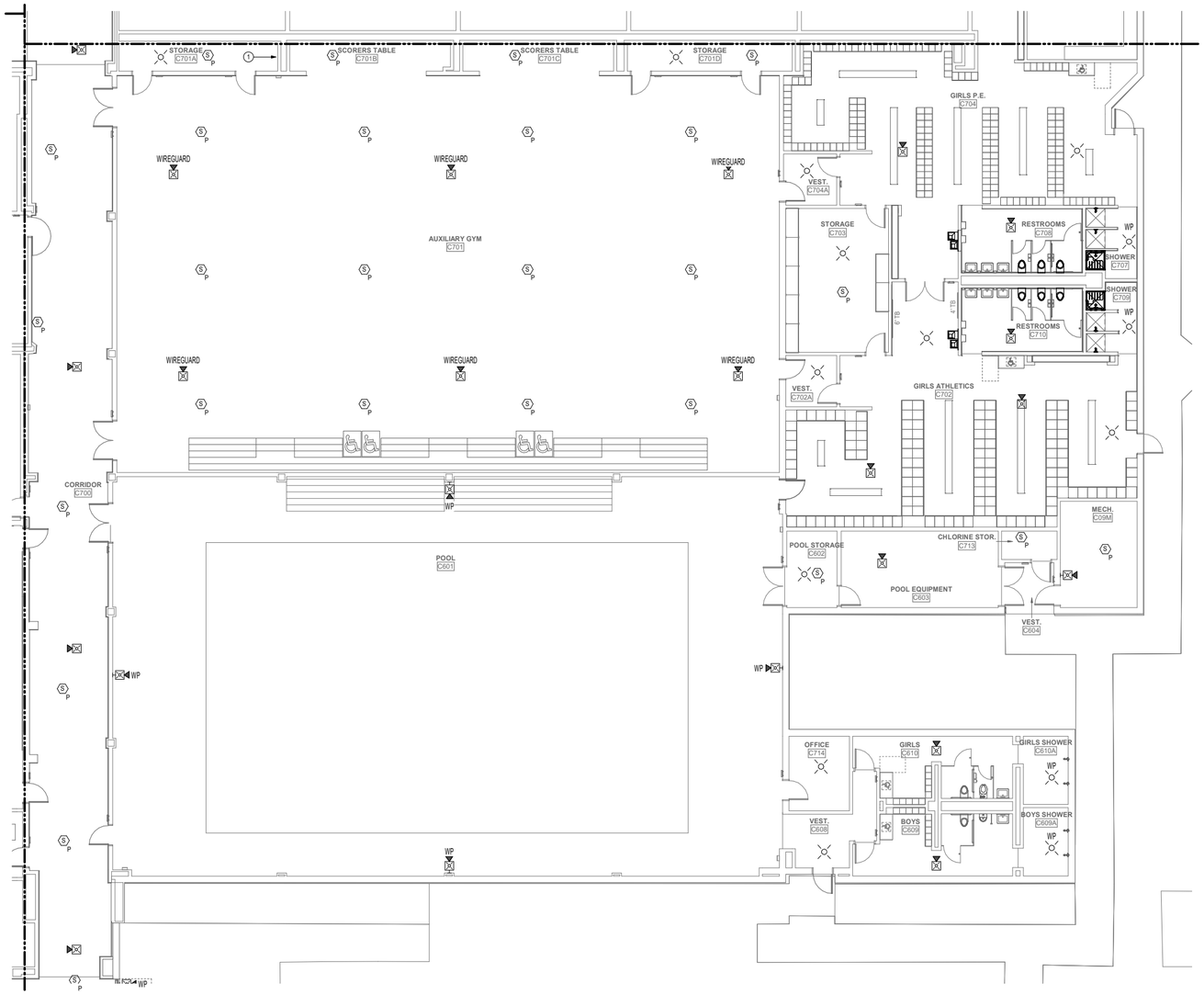
1ST LEVEL FIRE ALARM PLAN - AREA C

TF-101C

FOR BLUEBEAM LABELING OOR:

0"

1"



1 1ST LEVEL FIRE ALARM PLAN - AREA C
SCALE: 1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

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G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(#) FIRE ALARM KEYED NOTES

1 PROVIDE AND INSTALL CONTROL RELAY FOR LOCAL SOUND SYSTEM.

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MEP/FP
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KEY PLAN
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K E D C
B A
NORTH PLAN TRUE

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DATE	PROJECT NUMBER
02/17/2025	220023

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BUILDING NUMBER

1ST LEVEL FIRE ALARM PLAN - AREA C

TF-101C

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1ST LEVEL FIRE ALARM PLAN - AREA D

TF-101D

FOR BLUEBEAM LABELING OCR:

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FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

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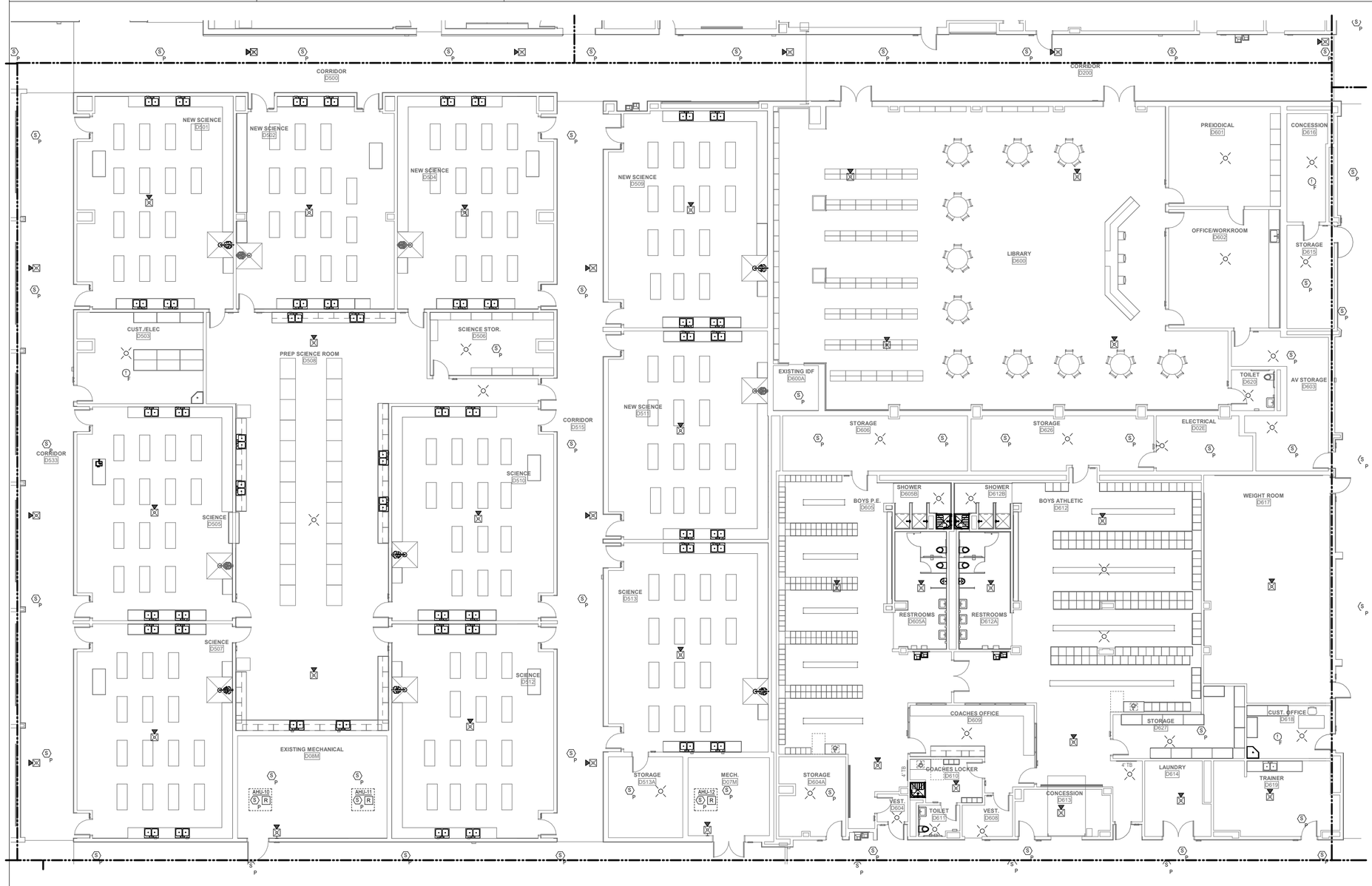
G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(#) FIRE ALARM KEYED NOTES



1 1ST LEVEL FIRE ALARM PLAN - AREA D
SCALE: 1/8" = 1'-0"

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LANDSCAPE
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STRUCTURAL
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MEP
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LEAF ENGINEERS

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KEY PLAN
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Cy-Fair Independent School District

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BUILDING NUMBER

1ST LEVEL FIRE ALARM PLAN - AREA D

TF-101D

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1ST LEVEL FIRE ALARM PLAN - AREA E

TF-101E

FOR BLUEBEAM LABELING OCR:

1 **1ST LEVEL FIRE ALARM PLAN - AREA E**
SCALE: 1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

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G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(F) FIRE ALARM KEYED NOTES

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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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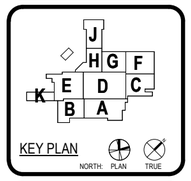
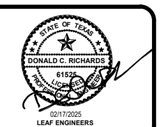
KEY PLAN
NORTH: PLAN TRUE





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DATE	PROJECT NUMBER
02/17/2025	220023

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BUILDING NUMBER

1ST LEVEL FIRE ALARM PLAN - AREA E

TF-101E

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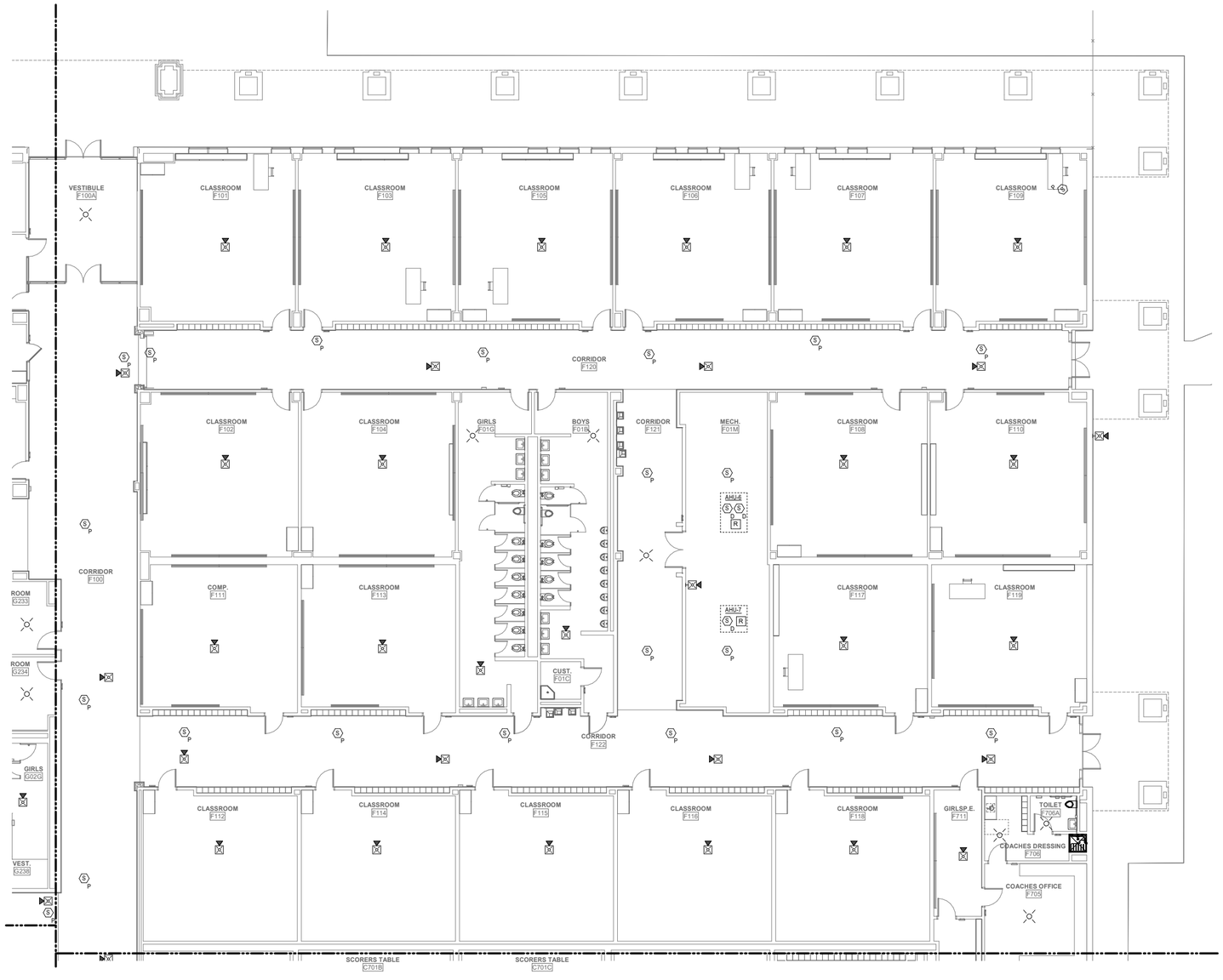

1 **1ST LEVEL FIRE ALARM PLAN - AREA F**
SCALE: 1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

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C. THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO THE EXISTING BUILDING AUTOMATION SYSTEM.

D. THE CONTRACTOR IS LIABLE FOR ANY DAMAGE SUSTAINED TO EXISTING SYSTEMS AND UTILITIES OCCURRED DURING CONSTRUCTION.

E. THE FIRE ALARM SHALL SYSTEM SHALL CONNECT AS AN INPUT TO THE BAS.

F. PROVIDE IN BID ADDITIONAL (3) SPEAKER STROBES, (3) SMOKE DETECTORS, (3) DUCT DETECTORS, WITH ASSOCIATE WIRING AND PROGRAMMING. LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(F) FIRE ALARM KEYED NOTES

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LANDSCAPE
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STRUCTURAL
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MEP
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FOODSERVICE
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THEATER
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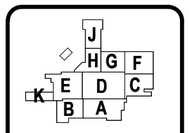
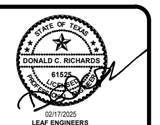


KEY PLAN
NORTH PLAN TRUE



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DATE	PROJECT NUMBER
02/17/2025	220023

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No.	Description	Date

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BUILDING NUMBER

1ST LEVEL FIRE ALARM PLAN - AREA F

TF-101F

1ST LEVEL FIRE ALARM PLAN - AREA F
TF-101F
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1ST LEVEL FIRE ALARM PLAN - AREA F PORTABLES

TF-101F.1

FOR BLUEBEAM LABELING/OCR:

1 1ST LEVEL FIRE ALARM PLAN - AREA F PORTABLES
SCALE: 1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

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(F) FIRE ALARM KEYED NOTES

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LEAF ENGINEERS

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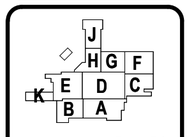

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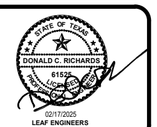

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DATE	PROJECT NUMBER
02/17/2025	220023

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BUILDING NUMBER

1ST LEVEL FIRE ALARM PLAN - AREA F PORTABLES

TF-101F.1

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1ST LEVEL FIRE ALARM PLAN - AREA G

TF-101G

FOR BLUEBEAM LABELING OCR:

0"

1"

FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

B. THE CONTRACTOR SHALL REMOVE THE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY. PLACE WALLPLATES ON ALL UNUSED JUNCTION BOXES AND PAINT TO MATCH WALL. REPLACE DAMAGED CEILING TILES WITH NEW MATCHING CEILING TILES.

C. THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO THE EXISTING BUILDING AUTOMATION SYSTEM.

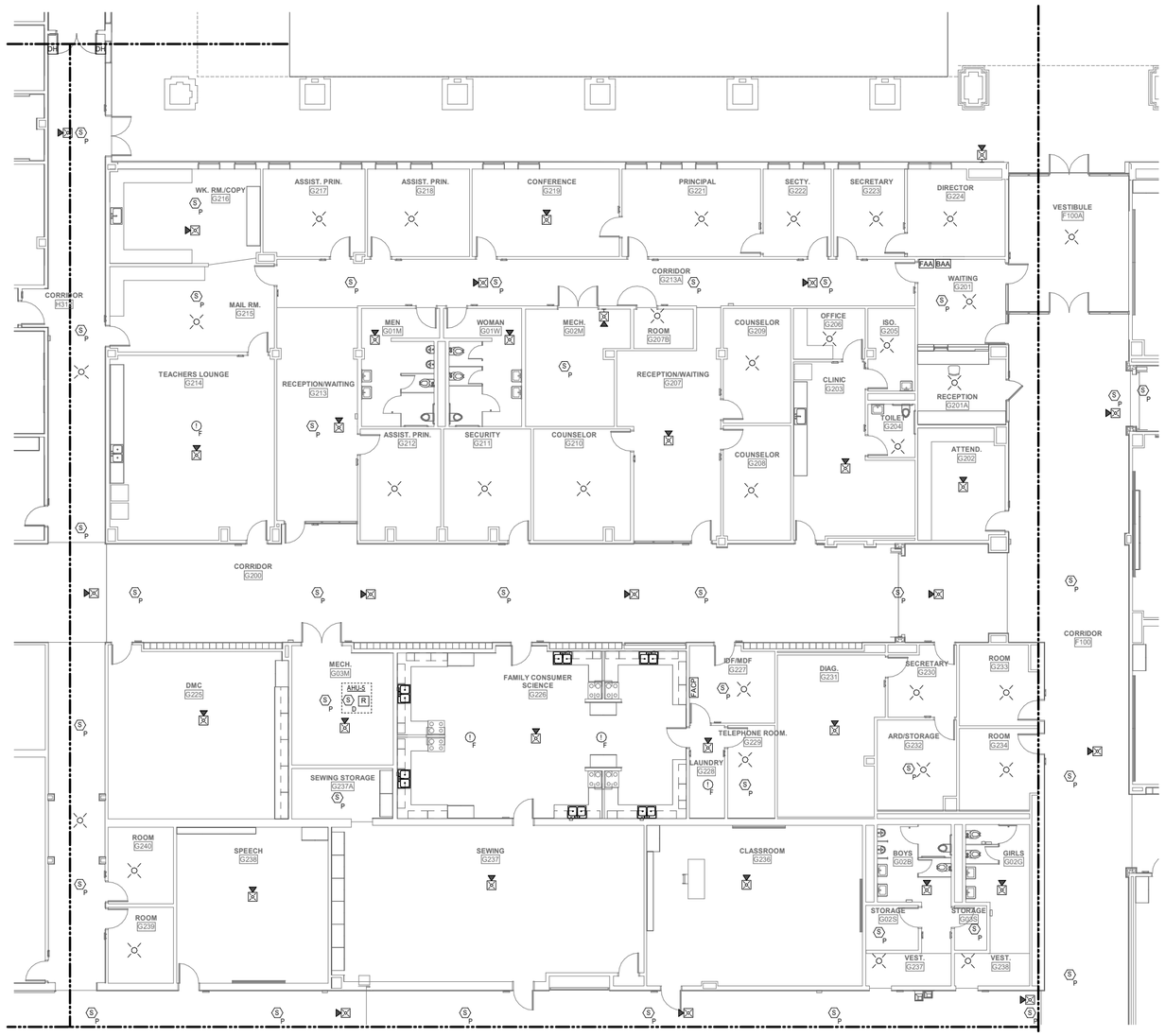
D. THE CONTRACTOR IS LIABLE FOR ANY DAMAGE SUSTAINED TO EXISTING SYSTEMS AND UTILITIES OCCURRED DURING CONSTRUCTION.

E. THE FIRE ALARM SHALL SYSTEM SHALL CONNECT AS AN INPUT TO THE BAS.

F. PROVIDE IN BID ADDITIONAL (3) SPEAKER STROBES, (3) SMOKE DETECTORS, (3) DUCT DETECTORS, WITH ASSOCIATE WIRING AND PROGRAMMING. LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(#) FIRE ALARM KEYED NOTES



1 **1ST LEVEL FIRE ALARM PLAN - AREA G**
SCALE: 1/8" = 1'-0"

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DATA/IT
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FOOD SERVICE
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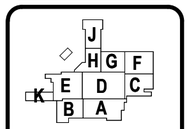
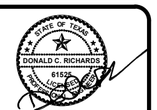


KEY PLAN
NORTH PLAN TRUE



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1ST LEVEL FIRE ALARM PLAN - AREA G

TF-101G

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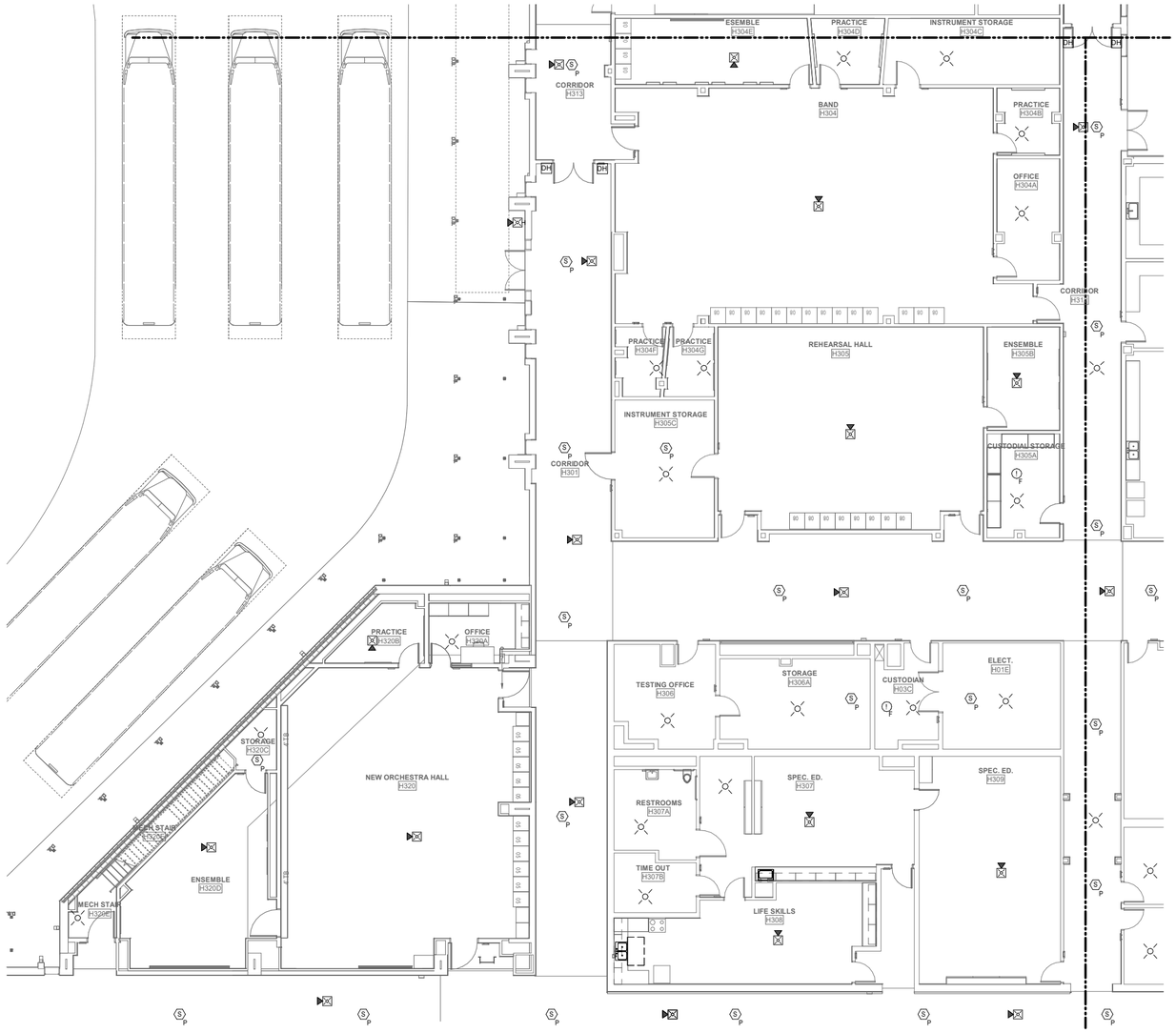
1ST LEVEL FIRE ALARM PLAN - AREA H

TF-101H

FOR BLUEBEAM LABELING OCR:

0"

1"



1 **1ST LEVEL FIRE ALARM PLAN - AREA H**
SCALE: 1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

B. THE CONTRACTOR SHALL REMOVE THE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY. PLACE WALLPLATES ON ALL UNUSED JUNCTION BOXES AND PAINT TO MATCH WALL. REPLACE DAMAGED CEILING TILES WITH NEW MATCHING CEILING TILES.

C. THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO THE EXISTING BUILDING AUTOMATION SYSTEM.

D. THE CONTRACTOR IS LIABLE FOR ANY DAMAGE SUSTAINED TO EXISTING SYSTEMS AND UTILITIES OCCURRED DURING CONSTRUCTION.

E. THE FIRE ALARM SHALL SYSTEM SHALL CONNECT AS AN INPUT TO THE BAS.

F. PROVIDE IN BID ADDITIONAL (3) SPEAKER STROBES, (3) SMOKE DETECTORS, (3) DUCT DETECTORS, WITH ASSOCIATE WIRING AND PROGRAMMING. LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(F) FIRE ALARM KEYED NOTES

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KEY PLAN
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K E D C
B A
NORTH PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61520
LICENSED PROFESSIONAL ENGINEER
02/17/2025
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1ST LEVEL FIRE ALARM PLAN - AREA H

TF-101H

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1ST LEVEL FIRE ALARM PLAN - AREA J

TF-101J

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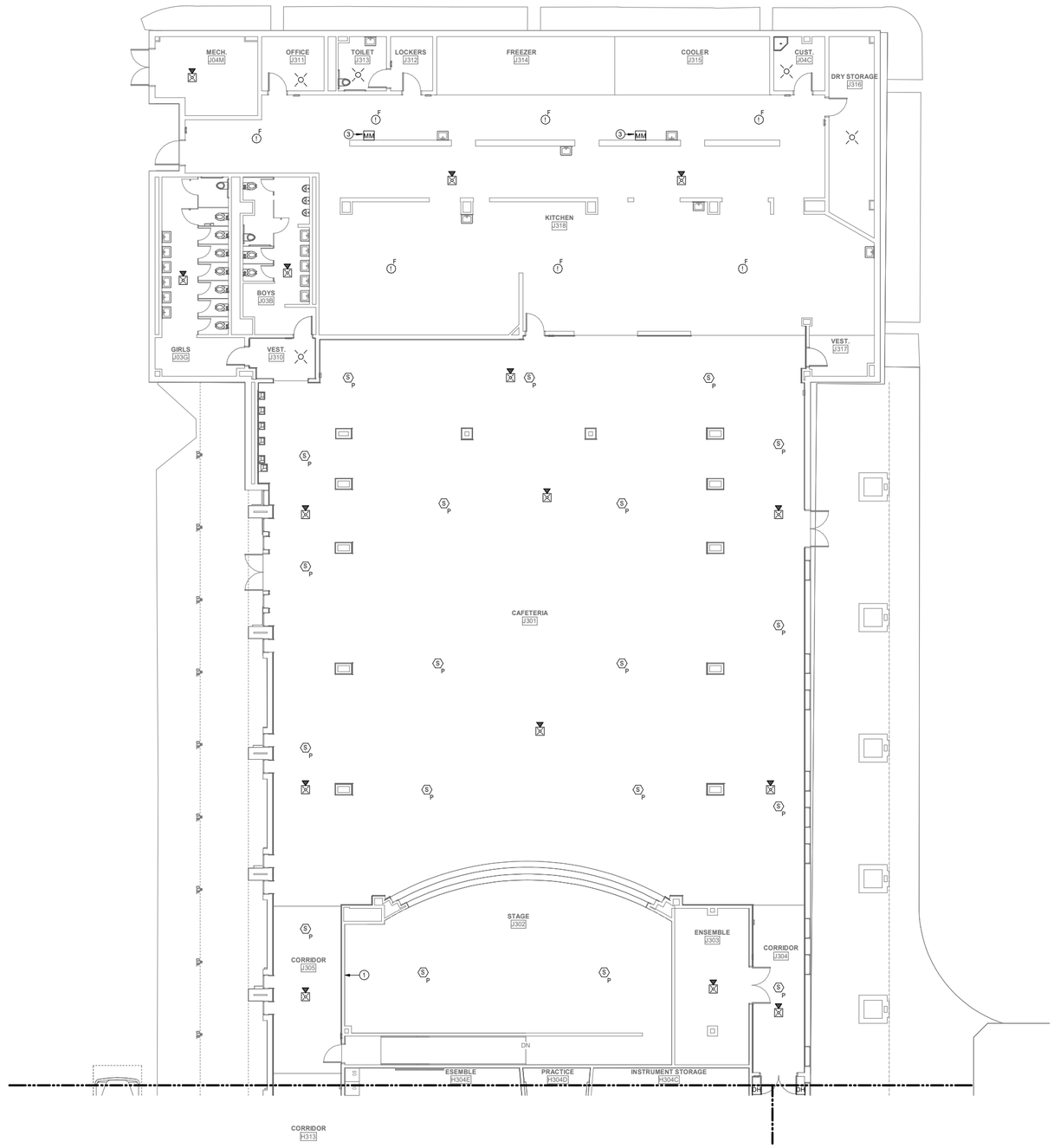

1 1ST LEVEL FIRE ALARM PLAN - AREA J
SCALE: 1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

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G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(F) FIRE ALARM KEYED NOTES

1 PROVIDE AND INSTALL CONTROL RELAY FOR LOCAL SOUND SYSTEM.

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CYPRESS, TX 77429

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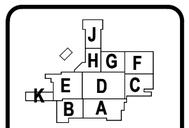

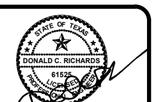

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1ST LEVEL FIRE ALARM PLAN - AREA J

TF-101J

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1ST LEVEL FIRE ALARM PLAN - AREA K

TF-101K

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FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

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G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(#) FIRE ALARM KEYED NOTES

1 **1ST LEVEL FIRE ALARM PLAN - AREA K**
SCALE: 1/8" = 1'-0"

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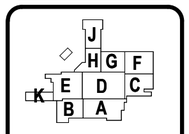

KEY PLAN
NORTH PLAN TRUE

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1ST LEVEL FIRE ALARM PLAN - AREA K

TF-101K

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MEZZANINE FIRE ALARM PLAN - COMPOSITE

TF-102

FOR BLUEBEAM LABELING OCR:

0"

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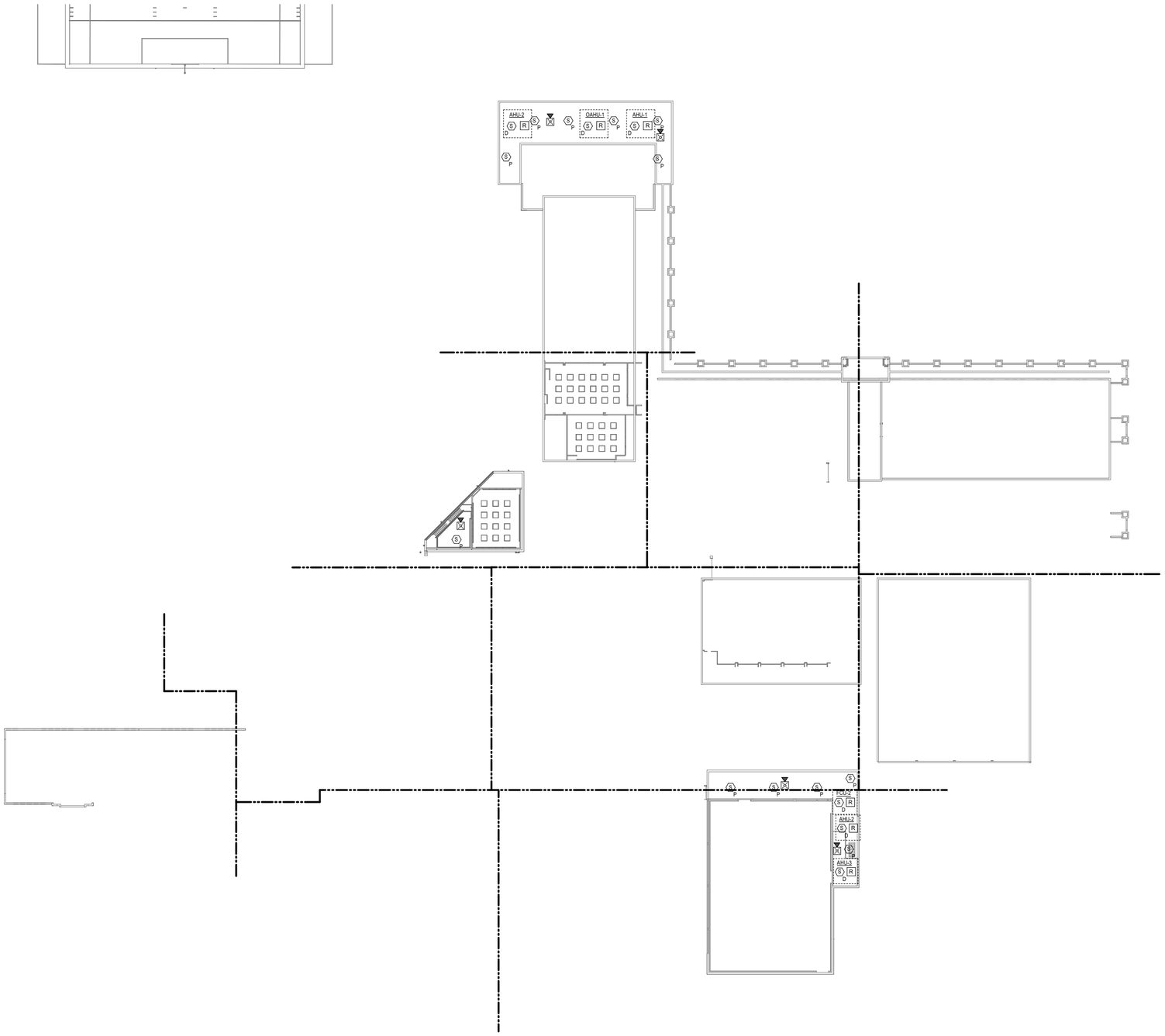

FIRE ALARM GENERAL NOTES

A. FIRE ALARM SCOPE OF WORK: THE COMPLETE EXISTING FIRE ALARM SYSTEM SERVING ARNOLD MIDDLE SCHOOL AND ANNEX SHALL BE REPLACED IN ITS ENTIRETY. PROVIDE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, PROGRAMMING, NEW WIRING, AND DEVICES WHERE INDICATED. REMOVE ALL EXISTING DEVICES, CABLING, AND CONTROL PANELS ONCE NEW SYSTEM HAS BEEN INSTALLED, TESTED, AND APPROVED BY THE ENGINEER AND AHJ. ANNEX FIRE ALARM DEVICES SHALL REPORT TO THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN ARNOLD MIDDLE SCHOOL. THIS SCOPE OF WORK IS INTENDED TO OCCUR OVER SUMMER 2025.

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C. THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO THE EXISTING BUILDING AUTOMATION SYSTEM.

D. THE CONTRACTOR IS LIABLE FOR ANY DAMAGE SUSTAINED TO EXISTING SYSTEMS AND UTILITIES OCCURRED DURING CONSTRUCTION.

E. THE FIRE ALARM SHALL SYSTEM SHALL CONNECT AS AN INPUT TO THE BAS.

F. PROVIDE IN BID ADDITIONAL (3) SPEAKER STROBES, (3) SMOKE DETECTORS, (3) DUCT DETECTORS, WITH ASSOCIATE WIRING AND PROGRAMMING. LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

G. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

(#) FIRE ALARM KEYED NOTES

1 **MEZZANINE FIRE ALARM PLAN - WORKING**
SCALE: 1" = 30'-0"

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61522
LICENSED PROFESSIONAL ENGINEER
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MEZZANINE FIRE ALARM PLAN - COMPOSITE

TF-102

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1ST LEVEL SECURITY OVERALL PLAN

TN-101

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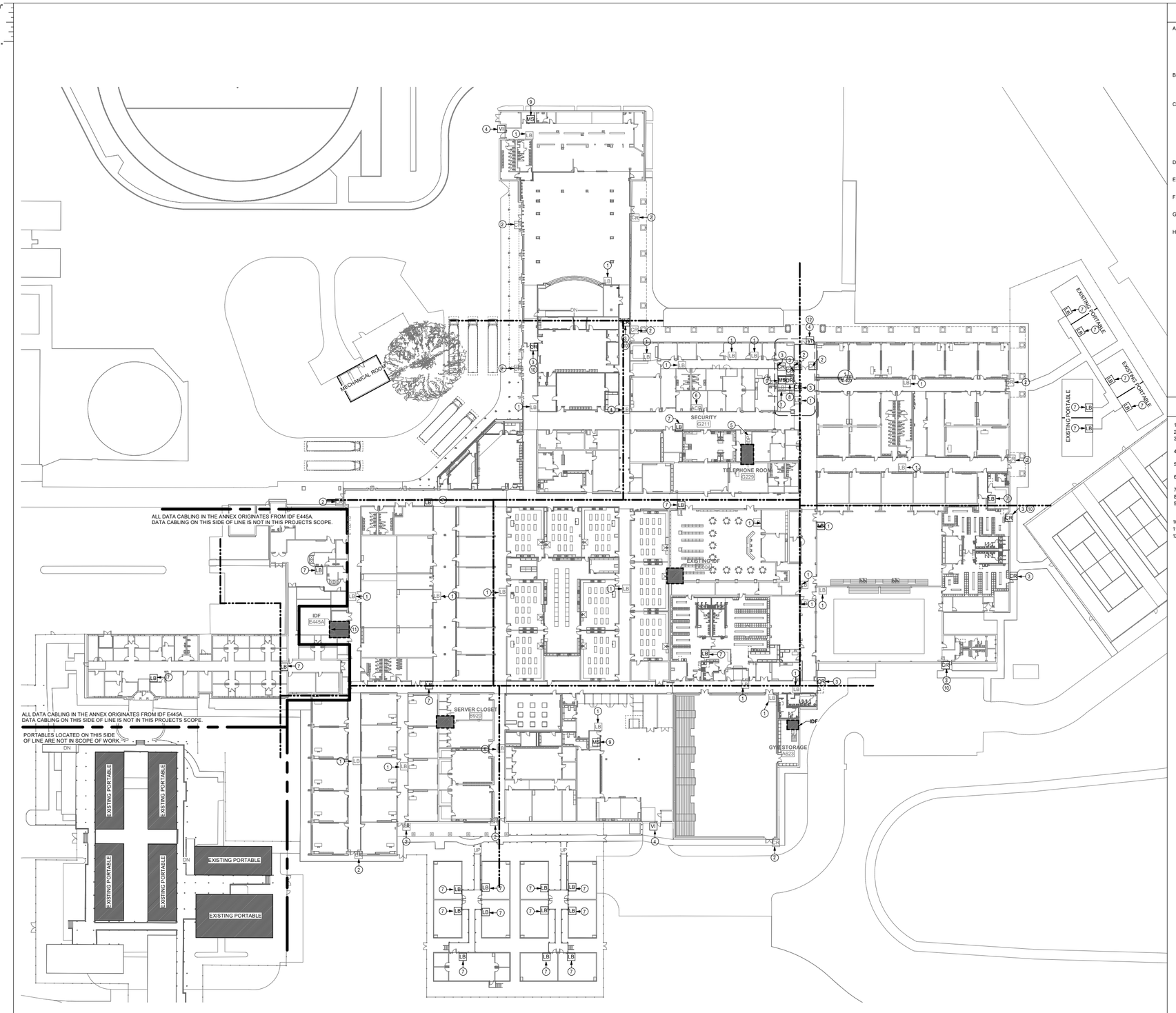

1 **1ST LEVEL TECHNOLOGY PLAN - COMPOSITE**
SCALE: 1/32" = 1'-0"

TECHNOLOGY "SECURITY" GENERAL NOTES

A. "ACCESS CONTROL SCOPE OF WORK": THE CONTRACTOR SHALL ADD CARD READERS AND 2N DEVICES WHERE INDICATED. REPLACE ALL CONTROLLERS FOR THE EXISTING AMAG ACCESS CONTROL SYSTEM AND MOUNT IN EACH MDF/IDF LOCATION. INSTALL NEW CABLING AND CONNECT TO BOTH EXISTING AND NEW CARD READERS TO PROVIDE A FULLY FUNCTIONAL SYSTEM. ALL DATA DROPS LOCATED IN MDF/IDF ROOMS SHALL BE MOUNTED AT 60" A.F.F. LINK ALL KITCHEN DOORBELLS TO VIDEO INTERCOMS.

B. "INTRUSION DETECTION SCOPE OF WORK": THE EXISTING INTRUSION DETECTION SYSTEM IS EXISTING TO REMAIN. PROVIDE ADDITIONAL DEVICES AND INTEGRATE TO THE EXISTING SYSTEM AS NOTED ON PLANS. PROVIDE CONNECTION TO EACH NEW ATS (TWO) TO NOTIFY CFISD POLICE IN THE EVENT OF A POWER LOSS.

C. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC, SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCES SPOINTS PRIOR TO DEMOLITION.

D. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

E. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

F. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

G. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

H. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

② TECHNOLOGY KEYED NOTES

1 INDICATES LOCATION OF AN EXISTING LOCKDOWN BUTTON THAT IS TO REMAIN.
2 INDICATES LOCATION OF AN EXISTING CARD READER THAT IS TO REMAIN.
3 PROVIDE AND INSTALL A NEW CARD READER. REMOVE AND RETURN EXISTING CARD READER TO OWNER.
4 PROVIDE AND INSTALL A NEW VIDEO INTERCOM WITH INTEGRATED CARD READER. REMOVE AND RETURN EXISTING VIDEO INTERCOM UNIT TO OWNER.
5 INDICATES LOCATION OF THE EXISTING BOSCH INTRUSION DETECTION PANEL IN ROOM G227.
6 INDICATES LOCATION OF THE EXISTING AMAG ACCESS CONTROL PANEL IN SECURITY OFFICE.
7 PROVIDE AND INSTALL A NEW LOCKDOWN BUTTON.
8 INDICATES LOCATION OF AN EXISTING DATA OUTLET. DATA CABLING SHALL BE OF:OI.
9 PROVIDE AND INSTALL A NEW VIDEO MASTER CALL STATION ON TABLETOP. INSTALL DATA OUTLET FOR 'MS' AT OUTLET HEIGHT. REFFER TO SHEET TN-501, DETAIL #2 FOR FURTHER DETAIL.
10 INDICATES A NEW DOOR.
11 PROVIDE AND INSTALL A NEW GATEWAY FOR SERVICE TO EXISTING TELECENTER U.
12 INDICATES A MULLION MOUNTED DEVICE.

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LEAF ENGINEERS

Arnold Middle School

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61522
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F-18672

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

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No.	Description	Date

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BUILDING NUMBER

1ST LEVEL SECURITY OVERALL PLAN

TN-101

FINAL PAGE TURN

1ST LEVEL TECHNOLOGY PLAN - AREA A

TN-101A

FOR BLUEBEAM LABELING OCR:

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TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CATXA SOLUTION. REFER TO 'TN3' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

B. "INTERCOM AND CLOCK SCOPE OF WORK": THE CONTRACTOR SHALL REMOVE ALL EXISTING CLOCKS EXCEPT THOSE LOCATED IN THE: CAFETERIA / COMMONS, LIBRARY, CLINIC, GYMNASIUMS, AND RECEPTIONIST AREA. PATCH AND PAINT ALL EXISTING LOCATIONS TO MATCH EXISTING SURFACE. THE CONTRACTOR SHALL REPLACE GATEWAYS AND INTERCOM HEAD-END IN MDF G227.

C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

(#) TECHNOLOGY KEYED NOTES

1 PROVIDE AND INSTALL A NEW JBL AC2215/64 LOUDSPEAKER SUSPENDED FROM CEILING.

2 PROVIDE AND INSTALL A NEW JBL AL8115 LOUDSPEAKER SUSPENDED FROM CEILING.

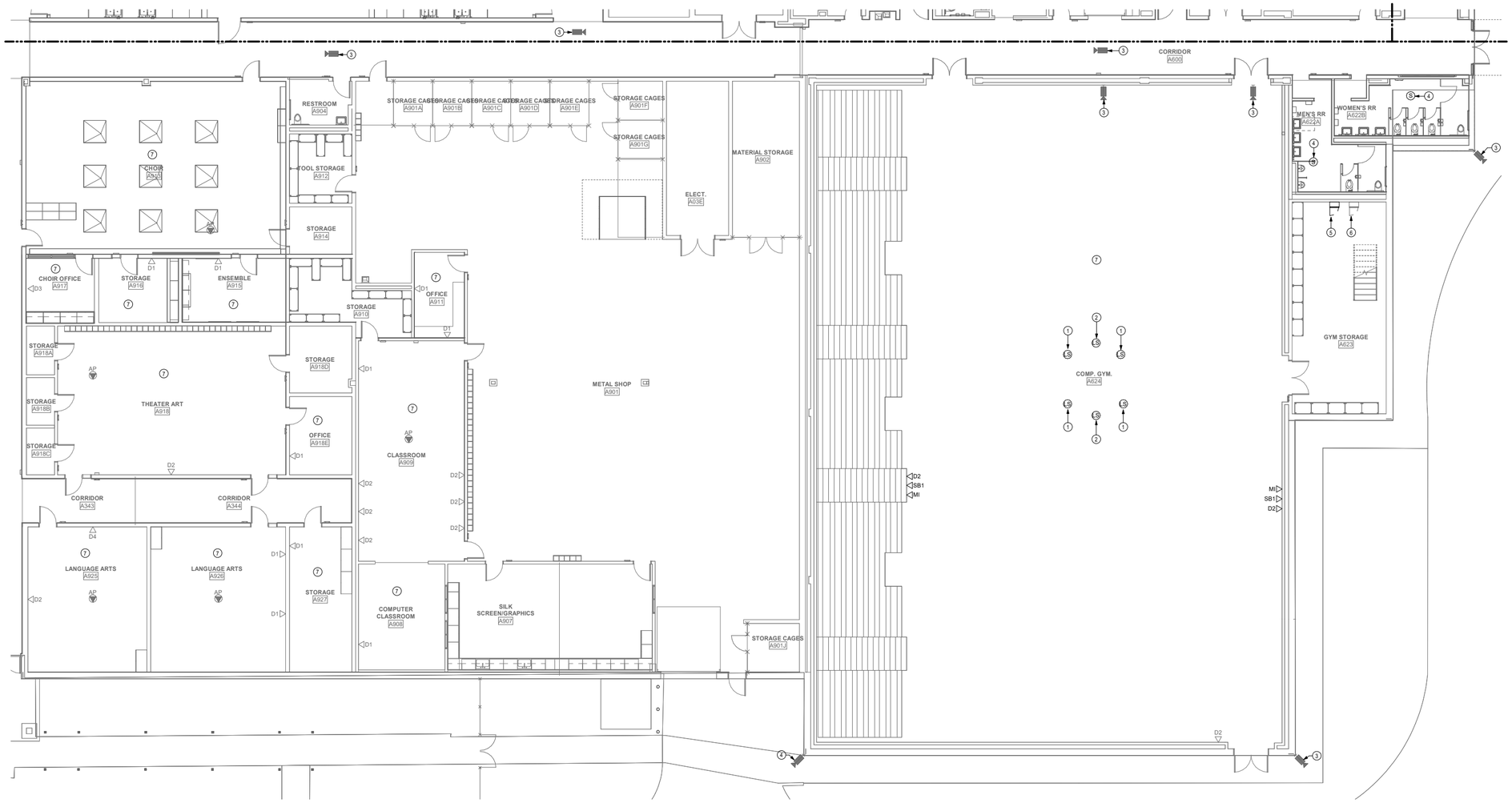
3 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT DATA CABLING SHALL BE OFOI.

4 PROVIDE NEW INTERCOM SPEAKER AND ZONE WITH NEAREST CORRIDOR.

5 PROVIDE AND INSTALL A NEW WALL MOUNTED LOCAL SOUND RACK FOR THE COMPETITION GYM A624. PROVIDE ALL MOUNTING EQUIPMENT, CONDUITS, AND ACCESSORIES, FOR A FULLY FUNCTIONAL SYSTEM. REFER TO SHEET TN-501, DETAIL #2 FOR MORE DETAILS.

6 INDICATES THE LOCATION OF AN EXISTING WALL MOUNTED DATA RACK THAT IS EXISTING TO REMAIN.

7 PROVIDE AND INSTALL NEW BACKBOXES, CABLING, AND WALLPLATES IN THIS ROOM. DATA CABLING IS OFOI.



1 1ST LEVEL TECHNOLOGY PLAN - AREA A
SCALE: 1/8" = 1'-0"

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BUILDING NUMBER

1ST LEVEL TECHNOLOGY PLAN - AREA A

TN-101A

FINAL PAGE TURN

1ST LEVEL TECHNOLOGY PLAN - AREA A PORTABLES

TN-101A.1

FOR BLUEBEAM LABELING OCR:

0"

1"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CATXA SOLUTION. REFER TO "TN3' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO "TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

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D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

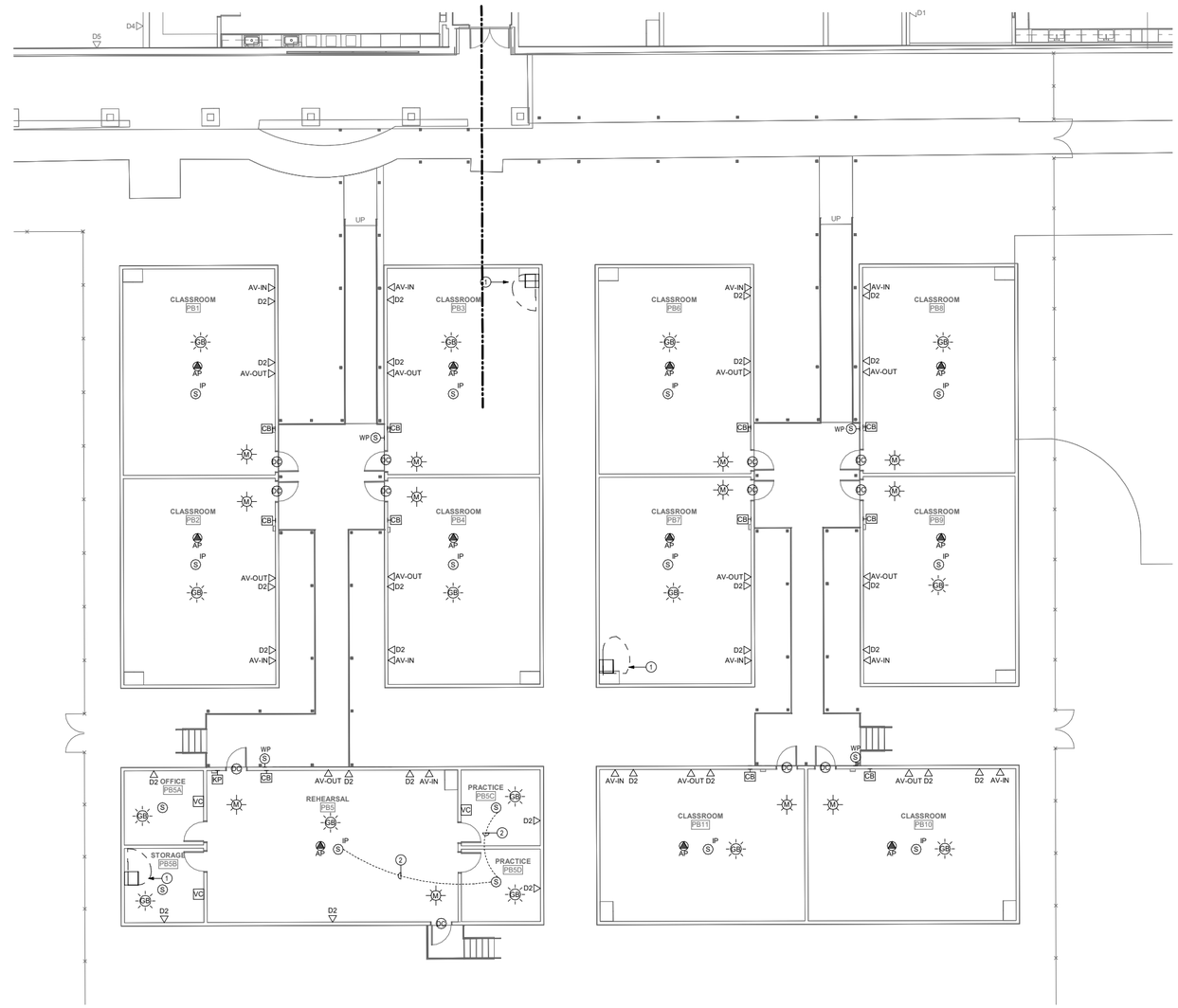
I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

(#) TECHNOLOGY KEYED NOTES

1 INDICATES A NEW CFCI WALL-MOUNTED DATA CABINET. ELECTRICAL CONTRACTOR SHALL PROVIDE (2) DEDICATED 20AMP QUAD-STYLE RECEPTACLES AT REAR OF RACK.

2 PROVIDE AND INSTALL A NEW BREAKOUT MODULE FOR THE SPEAKERS INDICATED.



1 1ST LEVEL TECHNOLOGY PLAN - AREA A PORTABLES
SCALE: 1/8" = 1'-0"

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KEY PLAN
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02/17/2025	220023

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BUILDING NUMBER

1ST LEVEL TECHNOLOGY PLAN - AREA A PORTABLES

TN-101A.1

FINAL PAGE TURN

1ST LEVEL TECHNOLOGY PLAN - AREA B

TN-101B

FOR BLUEBEAM LABELING OCR:

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TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

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C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

② TECHNOLOGY KEYED NOTES

1 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT. DATA CABLING SHALL BE OFOI.

2 INDICATES THE LOCATION OF AN NEW CFCI SECURITY CAMERA. DATA CABLING IS OFOI.

3 PROVIDE AND INSTALL NEW BACKBOXES, CABLING, AND WALLPLATES IN THIS ROOM. DATA CABLING IS OFOI.

1 **1ST LEVEL TECHNOLOGY PLAN - AREA B**
SCALE: 1/8" = 1'-0"

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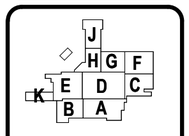

KEY PLAN
NORTH: PLAN TRUE

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F-10872

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DATE	PROJECT NUMBER
02/17/2025	220023

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No.	Description	Date

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1ST LEVEL TECHNOLOGY PLAN - AREA B

TN-101B

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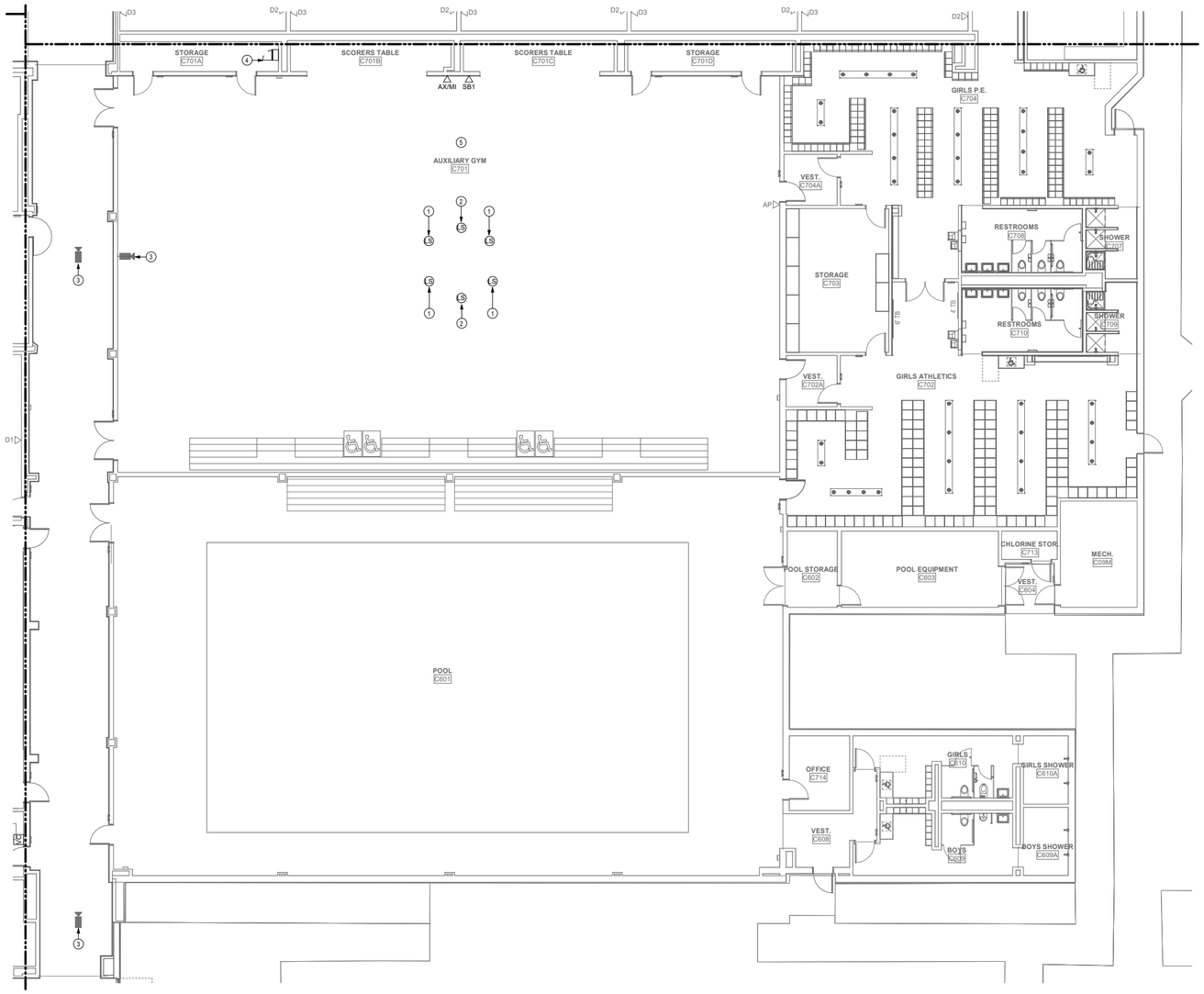

1 1ST LEVEL TECHNOLOGY PLAN - AREA C
SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

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J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

② TECHNOLOGY KEYED NOTES

1 PROVIDE AND INSTALL A NEW JBL AC2215/64 LOUDSPEAKER SUSPENDED FROM CEILING.
2 PROVIDE AND INSTALL A NEW JBL AL8115 LOUDSPEAKER SUSPENDED FROM CEILING.
3 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT. DATA CABLING SHALL BE OFOI.
4 PROVIDE AND INSTALL A NEW LOCAL SOUND RACK FOR AUXILIARY GYM C701. PROVIDE ALL MOUNTING EQUIPMENT, CONDUITS, AND ACCESSORIES, FOR A FULLY FUNCTIONAL SYSTEM. REFER TO SHEET TN-501, DETAIL #2 FOR MORE DETAILS.
5 PROVIDE AND INSTALL NEW BACKBOXES, CABLING, AND WALLPLATES IN THIS ROOM. DATA CABLING IS OFOI.

1ST LEVEL TECHNOLOGY PLAN - AREA C
TN-101C
FOR BLUEBEAM LABELING OCR:

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1ST LEVEL TECHNOLOGY PLAN - AREA C

TN-101C

FINAL PAGE TURN

1ST LEVEL TECHNOLOGY PLAN - AREA D

TN-101D

FOR BLUEBEAM LABELING OCR:

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TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CATXA SOLUTION. REFER TO 'TN3' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

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C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

(#) TECHNOLOGY KEYED NOTES

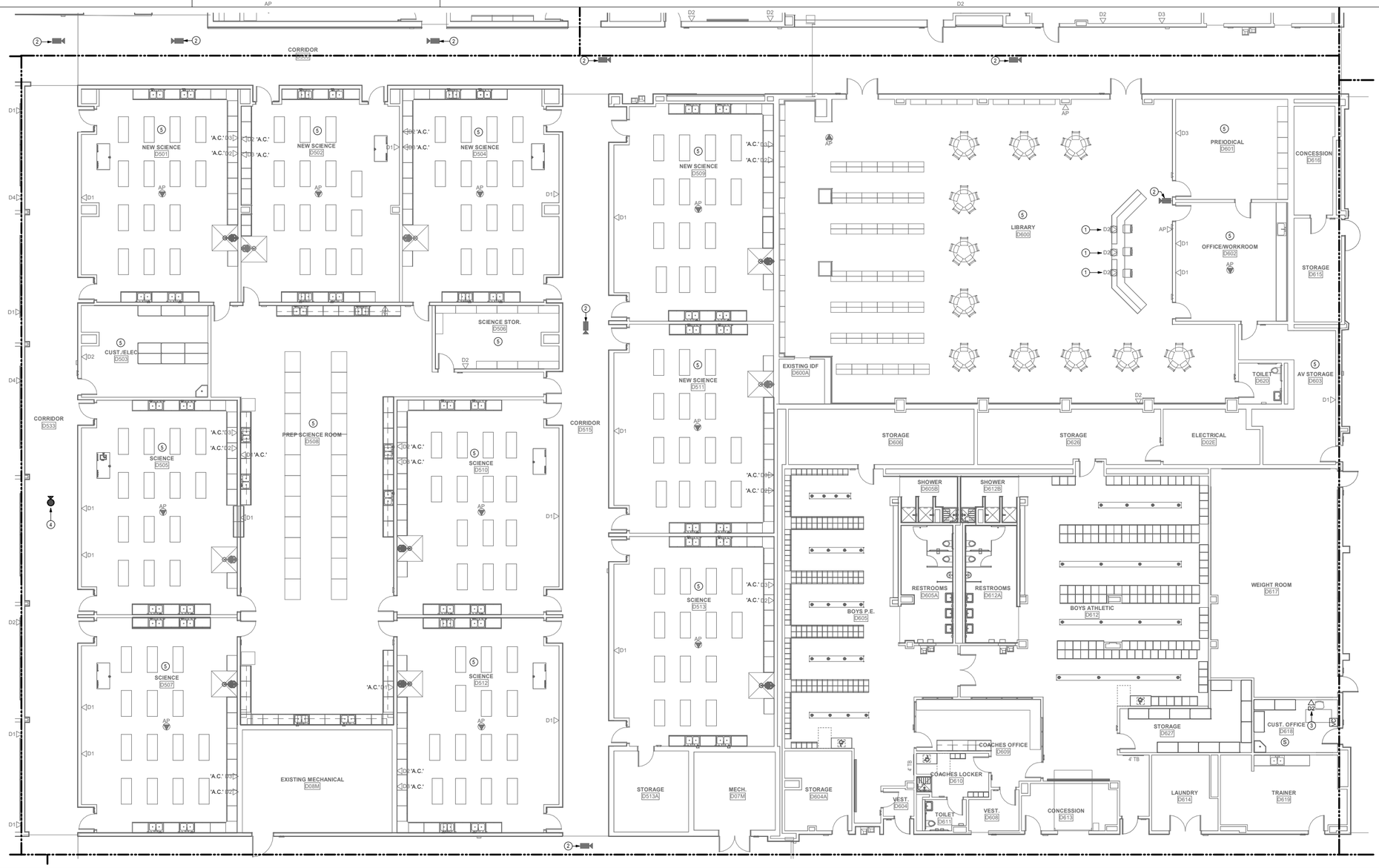
1 RE-USE EXISTING CONDUIT GOING TO FLOOR DATA OUTLET.

2 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT DATA CABLING SHALL BE OFOI.

3 PROVIDE AND INSTALL NEW CONDUIT, BACKBOX, AND DATA OUTLET. DATA CABLING SHALL BE OFOI.

4 INDICATES THE LOCATION OF AN NEW CFCI SECURITY CAMERA. DATA CABLING IS OFOI.

5 PROVIDE AND INSTALL NEW BACKBOXES, CABLING, AND WALLPLATES IN THIS ROOM. DATA CABLING IS OFOI.



1 1ST LEVEL TECHNOLOGY PLAN - AREA D
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

Arnold Middle School

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CYPRESS, TX 77429

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INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61522
LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

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1ST LEVEL TECHNOLOGY PLAN - AREA D

TN-101D

1ST LEVEL TECHNOLOGY PLAN - AREA E

TN-101E

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1 **1ST LEVEL TECHNOLOGY PLAN - AREA E**
SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

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F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

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TECHNOLOGY KEYED NOTES

PROVIDE AND INSTALL NEW CONDUIT, BACKBOX, AND DATA OUTLET. DATA CABLING SHALL BE OFOI.

1 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT. DATA CABLING SHALL BE OFOI.

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3 PROVIDE AND INSTALL NEW BACKBOXES, CABLING, AND WALLPLATES IN THIS ROOM. DATA CABLING IS OFOI.

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LEAF ENGINEERS

Arnold Middle School

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CYPRESS, TX 77429

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61522
LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

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BUILDING NUMBER

1ST LEVEL TECHNOLOGY PLAN - AREA E

TN-101E

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1ST LEVEL TECHNOLOGY PLAN - AREA F

TN-101F

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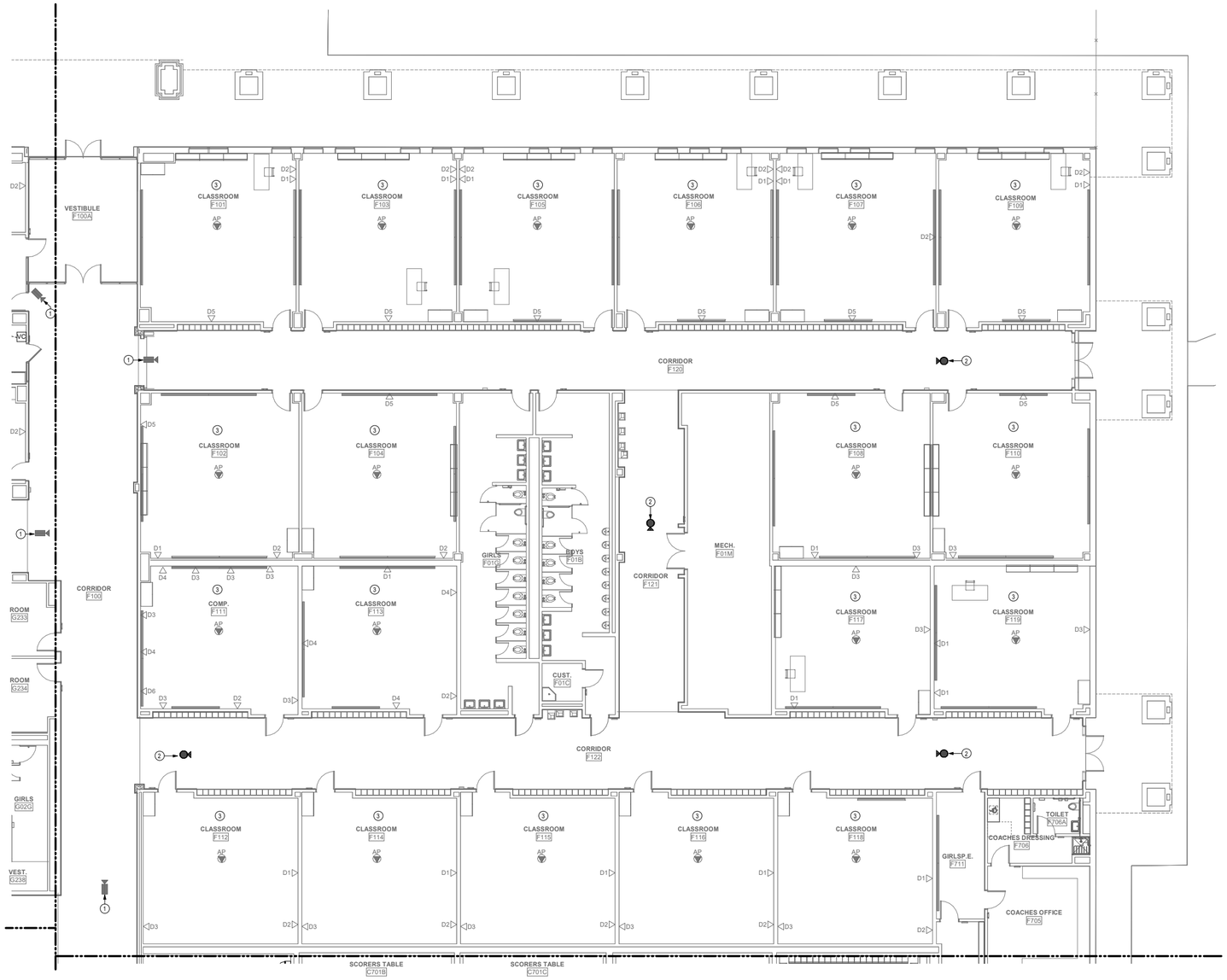

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

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1 1ST LEVEL TECHNOLOGY PLAN - AREA F
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

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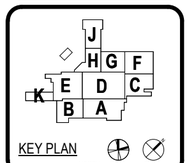

KEY PLAN
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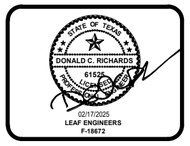

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BUILDING NUMBER

1ST LEVEL TECHNOLOGY PLAN - AREA F

TN-101F

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TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TN3' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

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C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

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J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

② TECHNOLOGY KEYED NOTES

1 PROVIDE AND INSTALL NEW BACKBOXES, CABLING, AND WALLPLATES IN THIS ROOM. DATA CABLING IS OFOI.

1ST LEVEL TECHNOLOGY PLAN - AREA F PORTABLES

TN-101F.1

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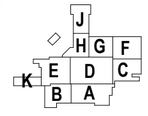
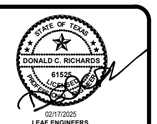


KEY PLAN
NORTH: PLAN TRUE



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1ST LEVEL TECHNOLOGY PLAN - AREA F PORTABLES

TN-101F.1

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1ST LEVEL TECHNOLOGY PLAN - AREA G

TN-101G

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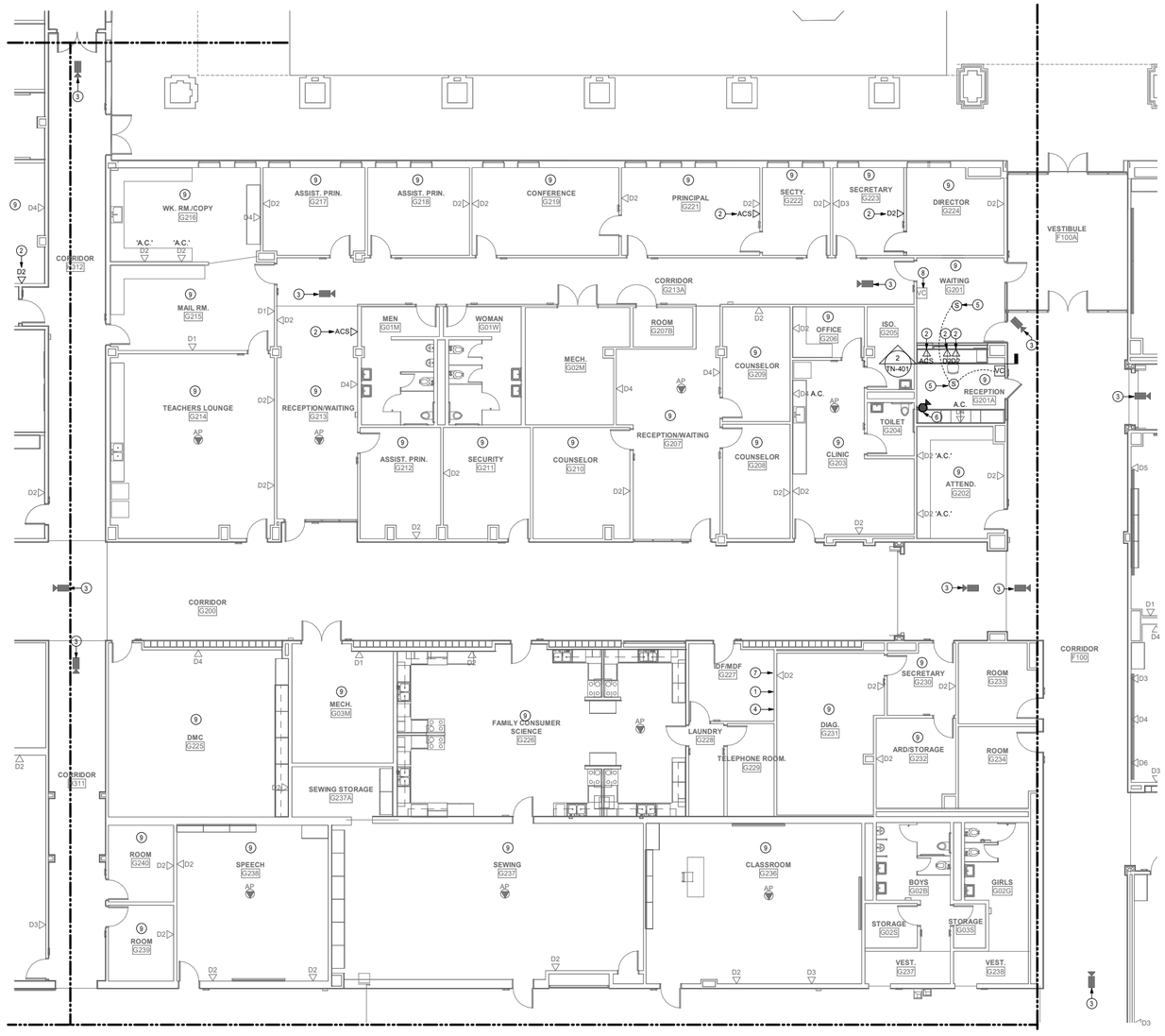

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② TECHNOLOGY KEYED NOTES

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2 PROVIDE AND INSTALL NEW CONDUIT, BACKBOX, AND DATA OUTLET. DATA CABLING SHALL BE OFOI.
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4 INDICATES LOCATION OF THE EXISTING BOSCH INTRUSION DETECTION PANEL IN ROOM G227.
5 PROVIDE NEW INTERCOM SPEAKER AND ZONE WITH NEAREST CORRIDOR.
6 INDICATES THE LOCATION OF AN NEW CFCI SECURITY CAMERA. DATA CABLING IS OFOI.
7 PROVIDE AND INSTALL A NEW GATEWAY FOR SERVICE TO EXISTING TELECENTER U.
8 INDICATES A DEVICES AND CABLING THAT IS TO BE REMOVED AND RETURNED TO OWNER. PROVIDE PATCH AND PAINT ON EXISTING LOCATION.
9 PROVIDE AND INSTALL NEW BACKBOXES, CABLING, AND WALLPLATES IN THIS ROOM. DATA CABLING IS OFOI.

1 1ST LEVEL TECHNOLOGY PLAN - AREA G
SCALE: 1/8" = 1'-0"

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AV
CONSULTANT NAME
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LEAF ENGINEERS

Arnold Middle School
11111 TEGE RD.
CYPRESS, TX 77429
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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
J H G F
K E D C
B A
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-10872

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

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No.	Description	Date

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1ST LEVEL TECHNOLOGY PLAN - AREA G

TN-101G

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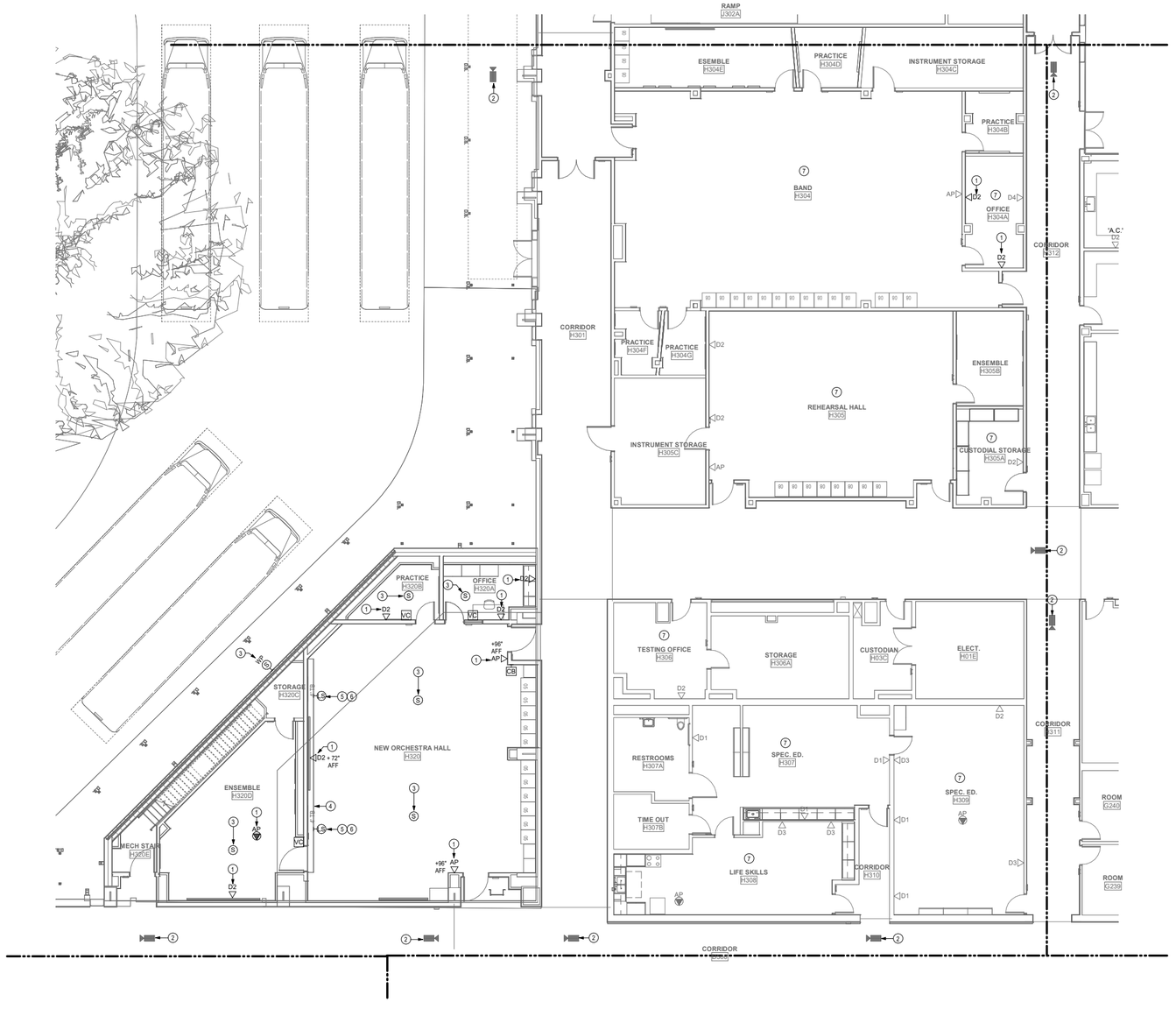

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TN3' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

B. "INTERCOM AND CLOCK SCOPE OF WORK": THE CONTRACTOR SHALL REMOVE ALL EXISTING CLOCKS EXCEPT THOSE LOCATED IN THE: CAFETERIA / COMMONS, LIBRARY, CLINIC, GYMNASIUMS, AND RECEPTIONIST AREA. PATCH AND PAINT ALL EXISTING LOCATIONS TO MATCH EXISTING SURFACE. THE CONTRACTOR SHALL REPLACE GATEWAYS AND INTERCOM HEAD-END IN MDF G227.

C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

⑦ TECHNOLOGY KEYED NOTES

1 PROVIDE AND INSTALL NEW CONDUIT, BACKBOX, AND DATA OUTLET. DATA CABLING SHALL BE OFOI.
2 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT. DATA CABLING SHALL BE OFOI.
3 PROVIDE NEW INTERCOM SPEAKER AND ZONE WITH NEAREST CORRIDOR.
4 RE-INSTALL THE EXISTING TOPCAT AT THIS LOCATION AND CONNECT TO THE EXISTING RELOCATED SOUND SYSTEM. PROVIDE ALL REQUIRED MOUNTING EQUIPMENT, WIRING, RACEWAY, CONDUIT, AND BACKBOX.
5 PROVIDE AND INSTALL NEW RACEWAY, CONDUIT, AND BACKBOX FOR RELOCATED SPEAKERS.
6 INDICATES NEW LOCATION OF EXISTING CEILING SUSPENDED SPEAKER THAT IS TO BE RE-LOCATED AND WALL-MOUNTED IN ORCHESTRA ROOM H304. PROVIDE ALL MOUNTING EQUIPMENT AND ACCESSORIES IN ORDER TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE FINAL LOCATION WITH THE DISTRICT'S TECHNOLGY DEPARTMENT ON FINAL LOCATIONS.
7 PROVIDE AND INSTALL NEW BACKBOXES, CABLING, AND WALLPLATES IN THIS ROOM. DATA CABLING IS OFOI.

1 1ST LEVEL TECHNOLOGY PLAN - AREA H
SCALE: 1/8" = 1'-0"

0" 1"

1ST LEVEL TECHNOLOGY PLAN - AREA H
TN-101H
FOR BLUEBEAM LABELING OCR:

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LEAF ENGINEERS

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CYPRESS, TX 77429
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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61522
LICENSED
PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-16872

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

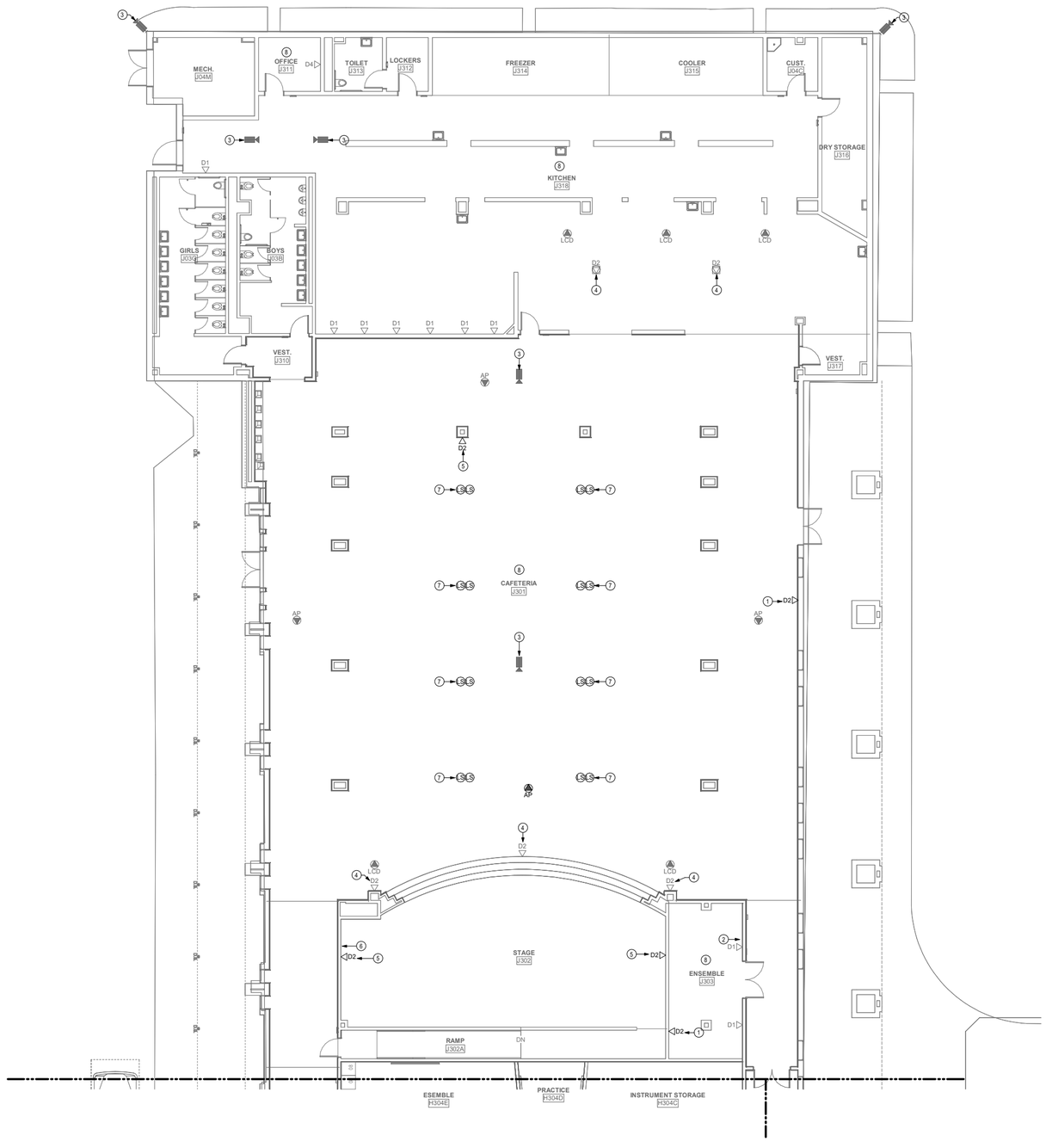
FINAL PAGE TURN
BUILDING NUMBER

1ST LEVEL TECHNOLOGY PLAN - AREA H

TN-101H

FINAL PAGE TURN

0"
1"



1 **1ST LEVEL TECHNOLOGY PLAN - AREA J**
SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CATSA SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

B. "INTERCOM AND CLOCK SCOPE OF WORK": THE CONTRACTOR SHALL REMOVE ALL EXISTING CLOCKS EXCEPT THOSE LOCATED IN THE: CAFETERIA / COMMONS, LIBRARY, CLINIC, GYMNASIUMS, AND RECEPTIONIST AREA. PATCH AND PAINT ALL EXISTING LOCATIONS TO MATCH EXISTING SURFACE. THE CONTRACTOR SHALL REPLACE GATEWAYS AND INTERCOM HEAD-END IN MDF G227.

C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

ⓔ TECHNOLOGY KEYED NOTES

1 PROVIDE AND INSTALL NEW CONDUIT, BACKBOX, AND DATA OUTLET. DATA CABLING SHALL BE OFOI.
2 REMOVE EXISTING LOCAL SOUND RACK, DEVICES, CABLING AND RETURN TO OWNER FOR. PATCH AND PAINT EXISTING LOCATION TO MATCH WALL.
3 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT. DATA CABLING SHALL BE OFOI.
4 RE-USE EXISTING CONDUIT GOING TO FLOOR DATA OUTLET.
5 INDICATES LOCATION OF 2 NEW DATA CABLES FOR THEATRICAL LIGHTING CONTROL STATION. DATA CABLING SHALL BE OFOI.
6 INDICATES THE LOCATION OF A NEW CFCI LOCAL SOUND RACK.
7 INDICATES THE LOCATION OF A NEW CFCI LOCAL SOUND SPEAKER.
8 PROVIDE AND INSTALL NEW BACKBOXES, CABLING, AND WALLPLATES IN THIS ROOM. DATA CABLING IS OFOI.

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LEAF ENGINEERS

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CYPRESS, TX 77429
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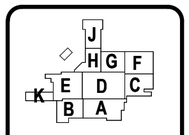
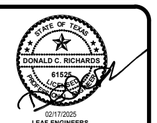
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-10872

CLIENT
Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST LEVEL TECHNOLOGY PLAN - AREA J

TN-101J

1ST LEVEL TECHNOLOGY PLAN - AREA J
TN-101J
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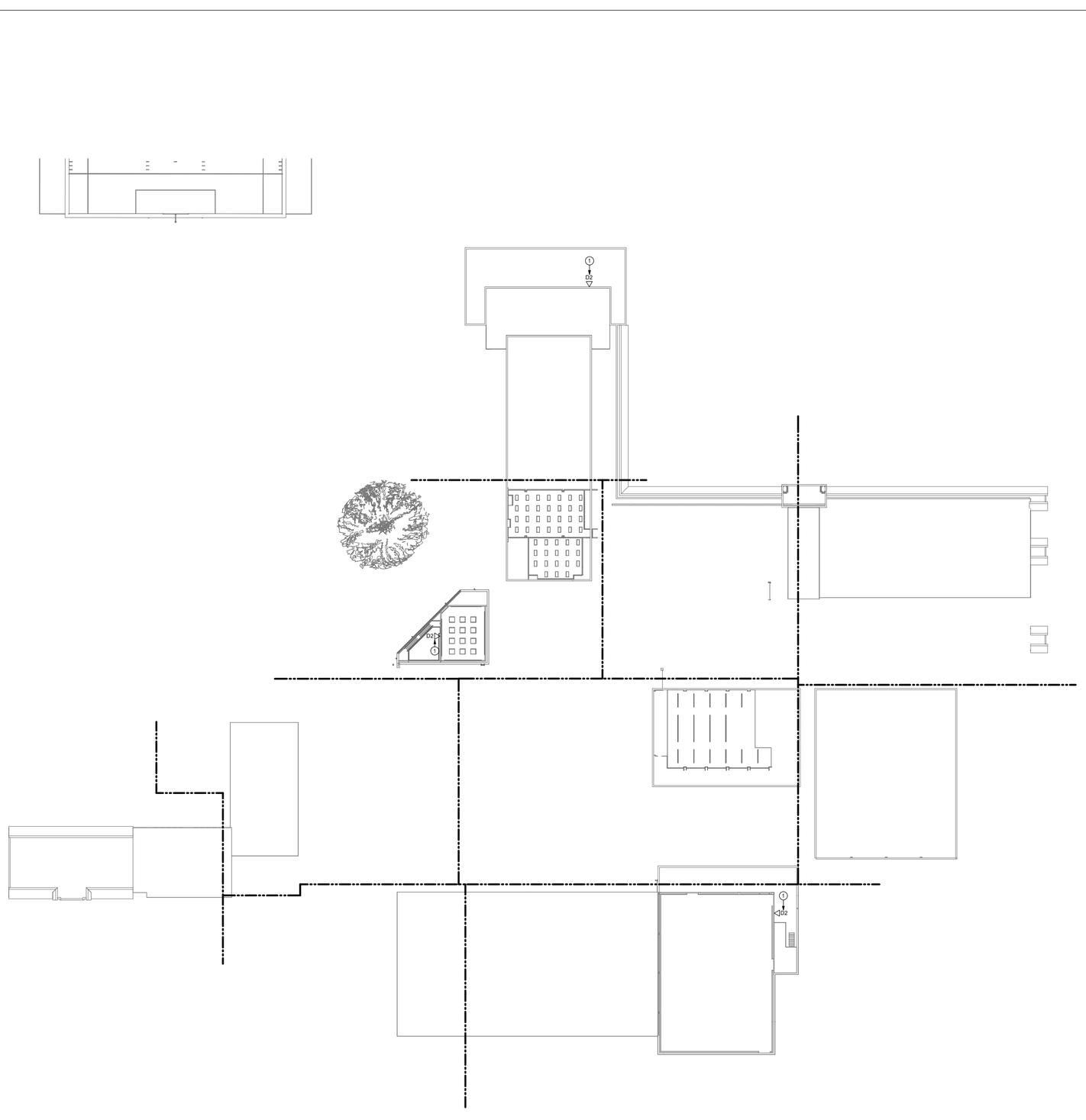

1 MEZZANINE TECHNOLOGY PLAN - COMPOSITE
SCALE: 1/32" = 1'-0"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

B. "INTERCOM AND CLOCK SCOPE OF WORK": THE CONTRACTOR SHALL REMOVE ALL EXISTING CLOCKS EXCEPT THOSE LOCATED IN THE: CAFETERIA / COMMONS, LIBRARY, CLINIC, GYMNASIUMS, AND RECEPTIONIST AREA. PATCH AND PAINT ALL EXISTING LOCATIONS TO MATCH EXISTING SURFACE. THE CONTRACTOR SHALL REPLACE GATEWAYS AND INTERCOM HEAD-END IN MDF G227.

C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

② TECHNOLOGY KEYED NOTES

1 PROVIDE AND INSTALL NEW CONDUIT, BACKBOX, AND DATA OUTLET. DATA CABLING SHALL BE OFOI.

FINAL PAGE TURN

MEZZANINE TECHNOLOGY PLAN - COMPOSITE

TN-102

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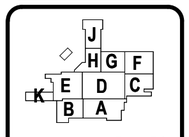
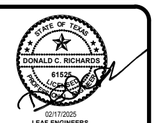


KEY PLAN
NORTH: PLAN TRUE



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F-10872

CLIENT
Cy-Fair Independent School District
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PROJECT NUMBER 220023

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No.	Description	Date

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BUILDING NUMBER

MEZZANINE TECHNOLOGY PLAN - COMPOSITE

TN-102

TECHNOLOGY ENLARGED PLANS

TN-401

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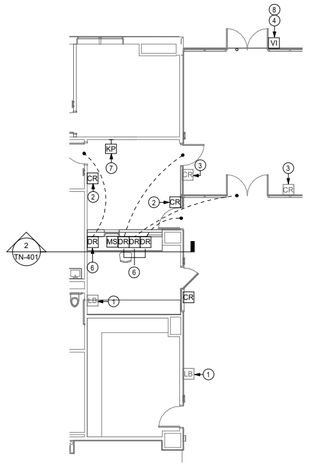
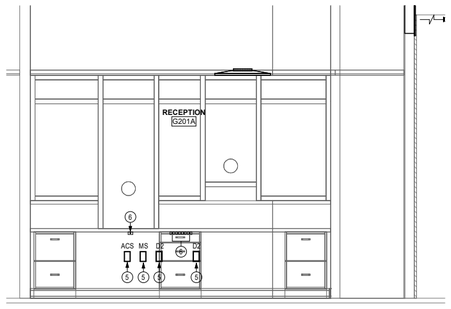


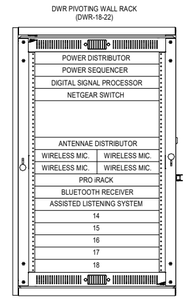
1 RECEPTION & WAITING AREA - ENLARGED SECURITY PLAN

SCALE: 1/8" = 1'-0"



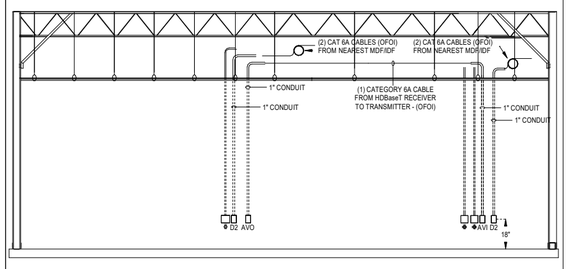
2 RECEPTION G201A PLAN NORTH ELEVATION

SCALE: 1/2" = 1'-0"



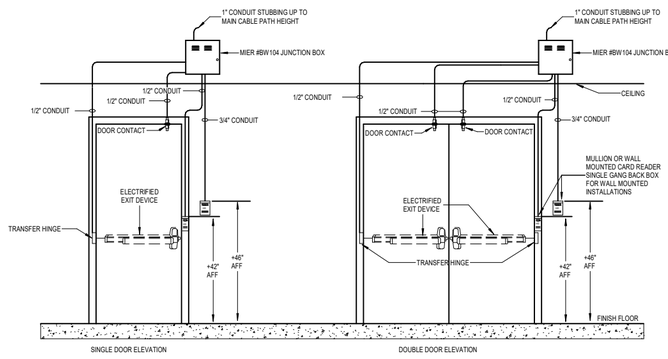
3 AV RACK ELEVATION (TYPICAL)

SCALE: 1 1/2" = 1'-0"



4 AVI TO AVO - NON WALL MOUNTED PROMETHEAN BOARD

SCALE: 12" = 1'-0"



5 ACCESS CONTROL MOUNTING DETAIL

SCALE: 12" = 1'-0"

TECHNOLOGY GENERAL NOTES

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E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

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I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

⑧ TECHNOLOGY KEYED NOTES

1 INDICATES LOCATION OF AN EXISTING LOCKDOWN BUTTON THAT IS TO REMAIN.
2 PROVIDE AND INSTALL A NEW CARD READER. REMOVE AND RETURN EXISTING CARD READER TO OWNER.
3 INDICATES LOCATION OF AN EXISTING CARD READER THAT IS TO REMAIN.
4 PROVIDE AND INSTALL A NEW VIDEO INTERCOM WITH INTEGRATED CARD READER. REMOVE AND RETURN EXISTING VIDEO INTERCOM UNIT TO OWNER.
5 PROVIDE AND INSTALL NEW CONDUIT, BACKBOX, AND DATA OUTLET. DATA CABLING SHALL BE OFOI.
6 PROVIDE AND INSTALL DOOR RELEASE BUTTONS DIRECTLY BENEATH COUNTER. REFER TO SHEET TN-501, DETAIL #2 FOR FURTHER DETAILS AND QUANTITIES.
7 INDICATES A DEVICE THAT IS EXISTING TO REMAIN.
8 INDICATES A MULLION MOUNTED DEVICE.

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TX Firm: BR 1608
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LEAF ENGINEERS

Arnold Middle School

11111 TEGE RD.
CYPRESS, TX. 77429

FINAL PAGE TURN

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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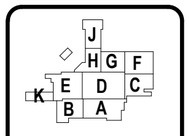

KEY PLAN
NORTH: PLAN TRUE

02/17/2025
LEAF ENGINEERS
F-10872

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

TECHNOLOGY ENLARGED PLANS

TN-401

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1ST LEVEL TECHNOLOGY DEMO PLAN - AREA A

TND-101A

FOR BLUEBEAM LABELING OCR:

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1"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CATR6A SOLUTION. REFER TO 'TN3' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO "TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

B. "INTERCOM AND CLOCK SCOPE OF WORK": THE CONTRACTOR SHALL REMOVE ALL EXISTING CLOCKS EXCEPT THOSE LOCATED IN THE: CAFETERIA / COMMONS, LIBRARY, CLINIC, GYMNASIUMS, AND RECEPTIONIST AREA. PATCH AND PAINT ALL EXISTING LOCATIONS TO MATCH EXISTING SURFACE. THE CONTRACTOR SHALL REPLACE GATEWAYS AND INTERCOM HEAD-END IN MDF G227.

C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

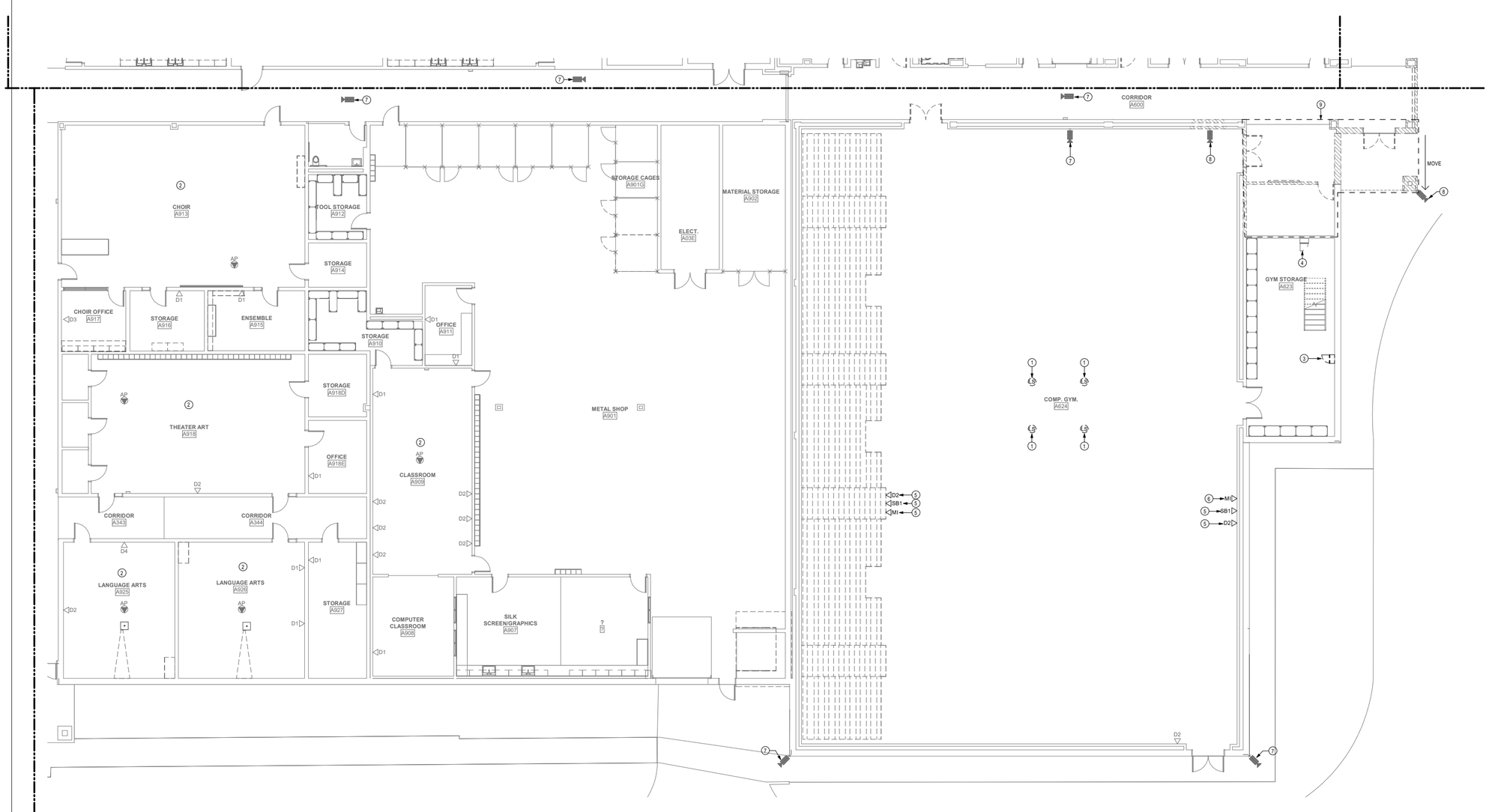
H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

TECHNOLOGY KEYED NOTES

1 REMOVE EXISTING SUSPENDED LOCAL SOUND SPEAKER, MOUNTING EQUIPMENT, CABLING, AND RETURN TO OWNER.
2 REMOVE EXISTING DATA CABLING, BACKBOX, AND PRESENTATION CABLING SERVING PROJECTOR IN THIS ROOM. REMOVE MOUNT. PROVIDE BLANK COVER PLATE IN UNUSED WALL BOX LOCATIONS. REMOVE CEILING BOXES AND PROVIDE NEW CEILING TILE.
3 REMOVE EXISTING LOCAL SOUND RACK, DEVICES, CABLING AND RETURN TO OWNER FOR. PATCH AND PAINT EXISTING LOCATION TO MATCH WALL.
4 INDICATES THE LOCATION OF AN EXISTING WALL MOUNTED DATA RACK THAT IS EXISTING TO REMAIN.
5 DEVICE IS TO BE REMOVED AND REPLACED WITH NEW DEVICE AND CABLING AND CONNECTED TO THE NEW HEAD-END EQUIPMENT. DATA CABLING IS OFOI.
6 REMOVE EXISTING LOCAL SOUND INPUTS WITH CABLING AND RETURN TO OWNER.
7 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT DATA CABLING SHALL BE OFOI.
8 INDICATES AN EXISTING CAMERA THAT IS TO REMOVED AND RE-INSTALLED AFTER CONSTRUCTION.
9 THIS AREA IS BEING DEMOLISHED.



1 1ST LEVEL TECHNOLOGY DEMO PLAN - AREA A
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

Arnold Middle School

11111 TELGE RD.
CYPRESS, TX 77429

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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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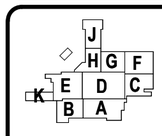
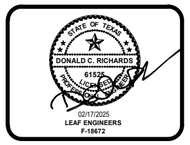
KEY PLAN
NORTH: PLAN TRUE





02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE 02/17/2025
PROJECT NUMBER 220023

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No.	Description	Date

FINAL PAGE TURN

BUILDING NUMBER

1ST LEVEL TECHNOLOGY DEMO PLAN - AREA A

TND-101A

FINAL

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1ST LEVEL TECHNOLOGY DEMO PLAN - AREA B

TND-101B

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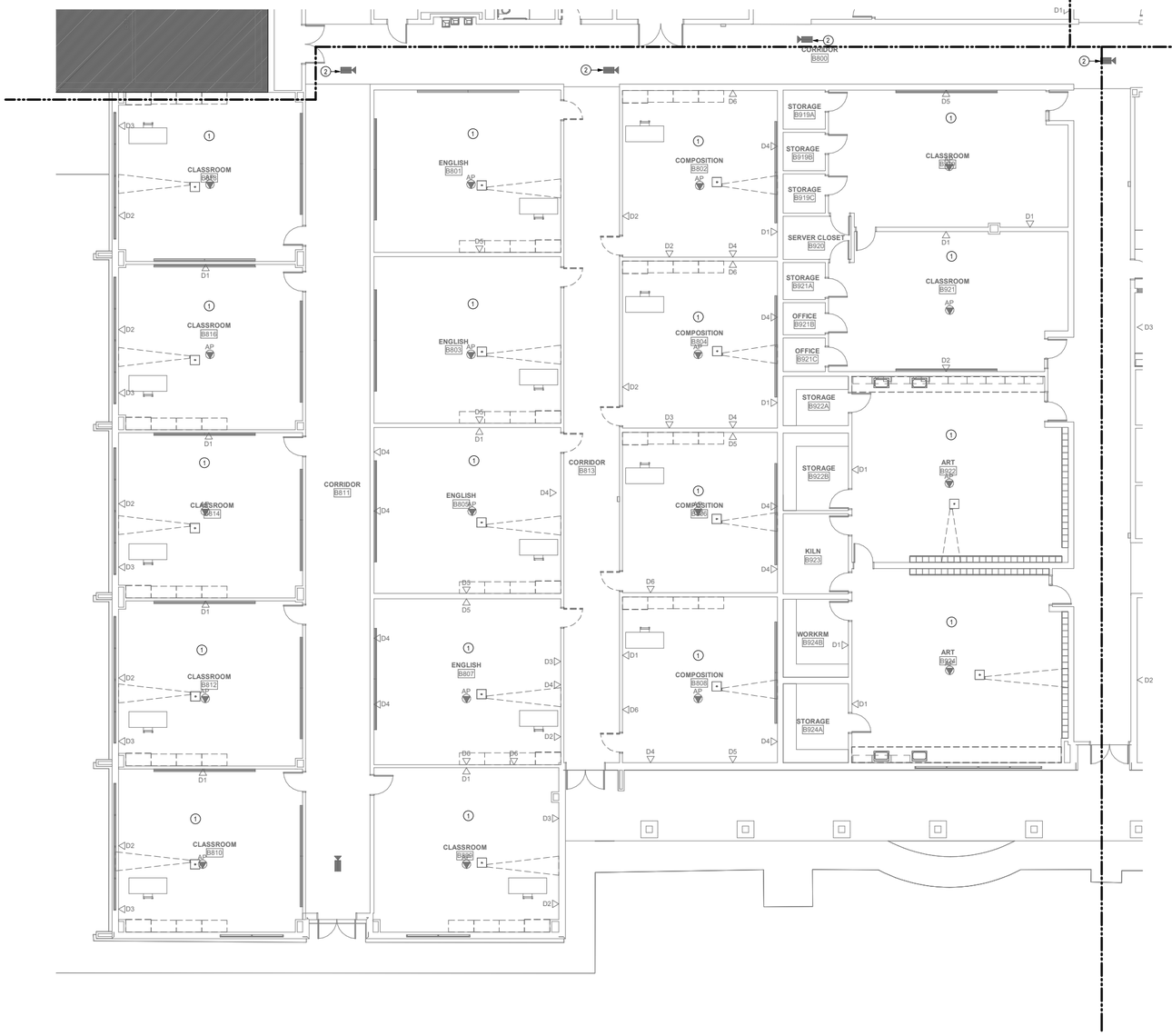

1 1ST LEVEL TECHNOLOGY DEMO PLAN - AREA B
SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

B. "INTERCOM AND CLOCK SCOPE OF WORK": THE CONTRACTOR SHALL REMOVE ALL EXISTING CLOCKS EXCEPT THOSE LOCATED IN THE: CAFETERIA / COMMONS, LIBRARY, CLINIC, GYMNASIUMS, AND RECEPTIONIST AREA. PATCH AND PAINT ALL EXISTING LOCATIONS TO MATCH EXISTING SURFACE. THE CONTRACTOR SHALL REPLACE GATEWAYS AND INTERCOM HEAD-END IN MDF G227.

C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

(#) TECHNOLOGY KEYED NOTES

1 REMOVE EXISTING DATA CABLING, BACKBOX, AND PRESENTATION CABLING SERVING PROJECTOR IN THIS ROOM. REMOVE MOUNT. PROVIDE BLANK COVER PLATE IN UNUSED WALL BOX LOCATIONS. REMOVE CEILING BOXES AND PROVIDE NEW CEILING TILE.

2 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT. DATA CABLING SHALL BE OFOI.

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LEAF ENGINEERS

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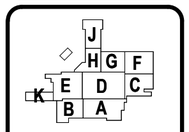

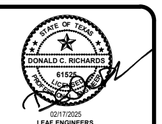

02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST LEVEL TECHNOLOGY DEMO PLAN - AREA B

TND-101B

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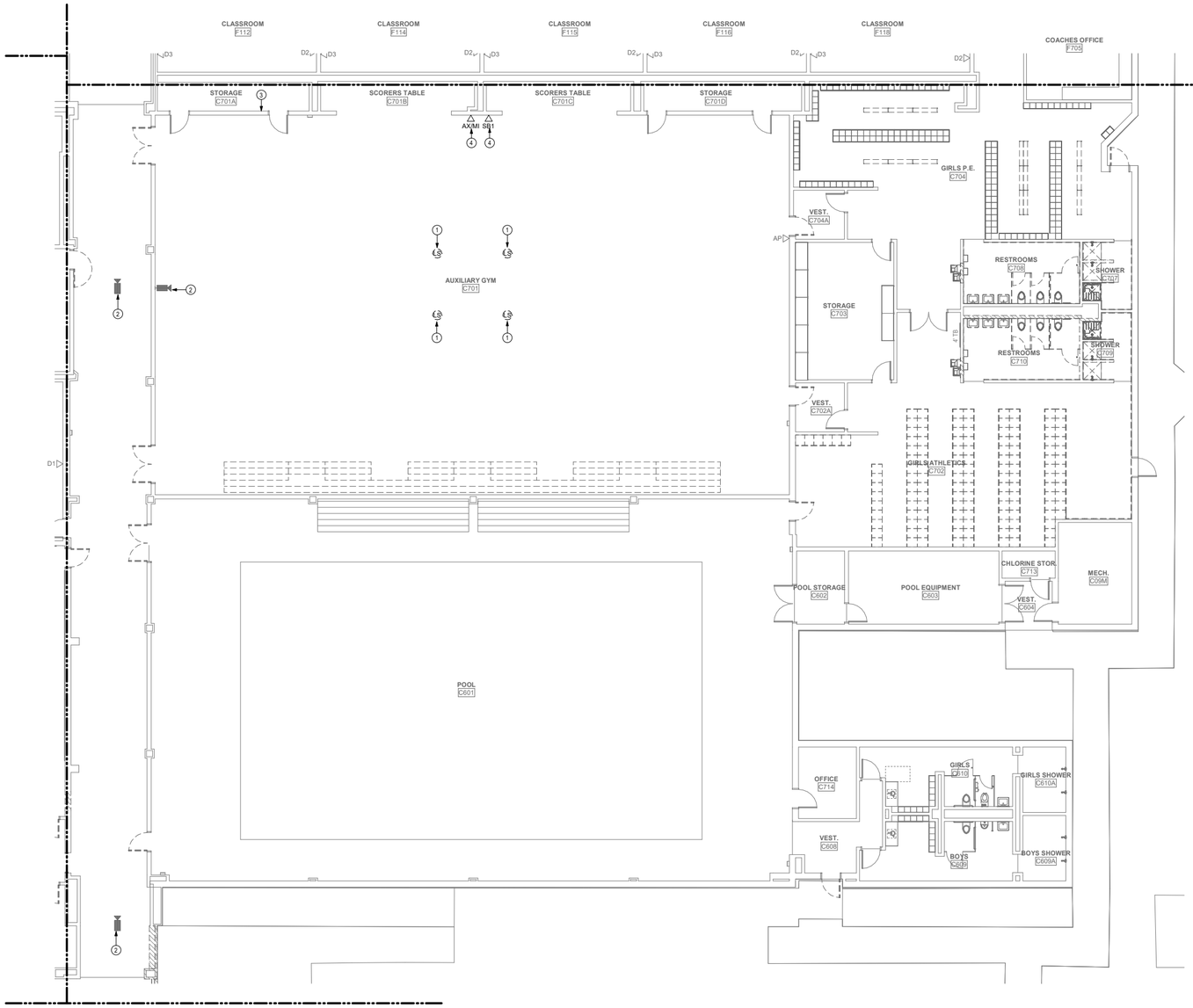

1 1ST LEVEL TECHNOLOGY DEMO PLAN - AREA C
SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

B. "INTERCOM AND CLOCK SCOPE OF WORK": THE CONTRACTOR SHALL REMOVE ALL EXISTING CLOCKS EXCEPT THOSE LOCATED IN THE: CAFETERIA / COMMONS, LIBRARY, CLINIC, GYMNASIUMS, AND RECEPTIONIST AREA. PATCH AND PAINT ALL EXISTING LOCATIONS TO MATCH EXISTING SURFACE. THE CONTRACTOR SHALL REPLACE GATEWAYS AND INTERCOM HEAD-END IN MDF G227.

C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

(#) TECHNOLOGY KEYED NOTES

1 REMOVE EXISTING SUSPENDED LOCAL SOUND SPEAKER, MOUNTING EQUIPMENT, CABLING, AND RETURN TO OWNER.
2 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT. DATA CABLING SHALL BE OFOI.
3 REMOVE EXISTING LOCAL SOUND RACK, DEVICES, CABLING AND RETURN TO OWNER FOR. PATCH AND PAINT EXISTING LOCATION TO MATCH WALL.
4 DEVICE IS TO BE REMOVED AND REPLACED WITH NEW DEVICE AND CABLING AND CONNECTED TO THE NEW HEAD-END EQUIPMENT. DATA CABLING IS OFOI.

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DATA/AV
CONSULTANT NAME
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LEAF ENGINEERS

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KEY PLAN
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NORTH PLAN TRUE

STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

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Cy-Fair Independent School District
DATE 02/17/2025
PROJECT NUMBER 220023
DRAWING HISTORY

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1ST LEVEL TECHNOLOGY DEMO PLAN - AREA C

TND-101C

1ST LEVEL TECHNOLOGY DEMO PLAN - AREA C
TND-101C
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1ST LEVEL TECHNOLOGY DEMO PLAN - AREA D

TND-101D

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TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CATR6 SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

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(#) TECHNOLOGY KEYED NOTES

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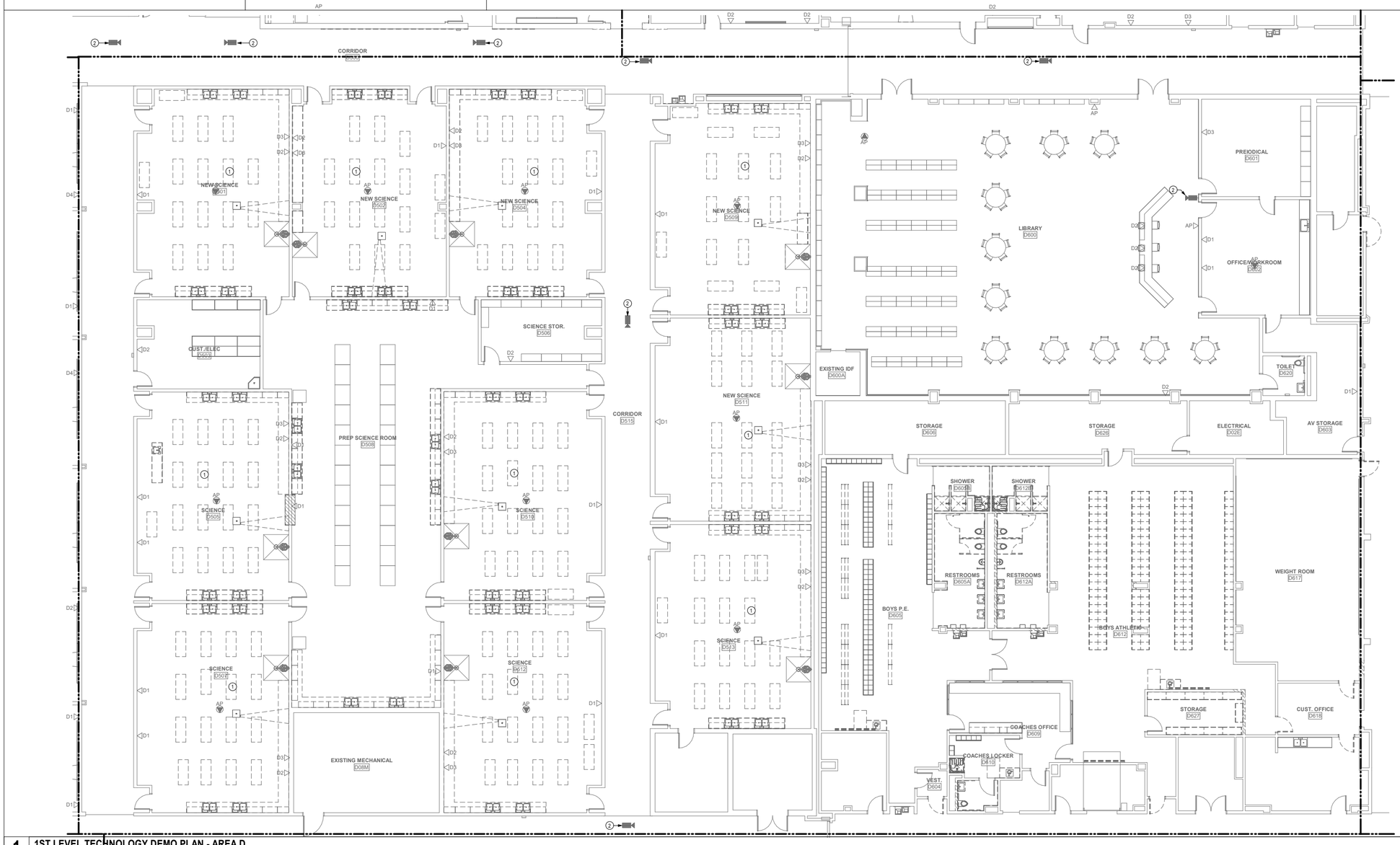
2 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT. DATA CABLING SHALL BE OFOI.



1 1ST LEVEL TECHNOLOGY DEMO PLAN - AREA D
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

Arnold Middle School

11111 TEGE RD.
CYPRESS, TX 77429

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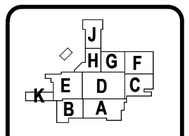
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE 02/17/2025
PROJECT NUMBER 220023

DRAWING HISTORY

No.	Description	Date

FINAL PAGE TURN

BUILDING NUMBER

1ST LEVEL TECHNOLOGY DEMO PLAN - AREA D

TND-101D

FINAL PAGE TURN

1ST LEVEL TECHNOLOGY DEMO PLAN - AREA E

TND-101E

FOR BLUEBEAM LABELING OCR:

1 **1ST LEVEL TECHNOLOGY DEMO PLAN - AREA E**
SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

B. "INTERCOM AND CLOCK SCOPE OF WORK": THE CONTRACTOR SHALL REMOVE ALL EXISTING CLOCKS EXCEPT THOSE LOCATED IN THE: CAFETERIA / COMMONS, LIBRARY, CLINIC, GYMNASIUMS, AND RECEPTIONIST AREA. PATCH AND PAINT ALL EXISTING LOCATIONS TO MATCH EXISTING SURFACE. THE CONTRACTOR SHALL REPLACE GATEWAYS AND INTERCOM HEAD-END IN MDF G227.

C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

TECHNOLOGY KEYED NOTES

1 REMOVE EXISTING DATA CABLING, BACKBOX, AND PRESENTATION CABLING SERVING PROJECTOR IN THIS ROOM. REMOVE MOUNT. PROVIDE BLANK COVER PLATE IN UNUSED WALL BOX LOCATIONS. REMOVE CEILING BOXES AND PROVIDE NEW CEILING TILE.

2 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT DATA CABLING SHALL BE OFOI.

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LEAF ENGINEERS

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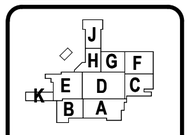
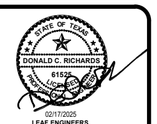
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM



KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-10672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST LEVEL TECHNOLOGY DEMO PLAN - AREA E

TND-101E

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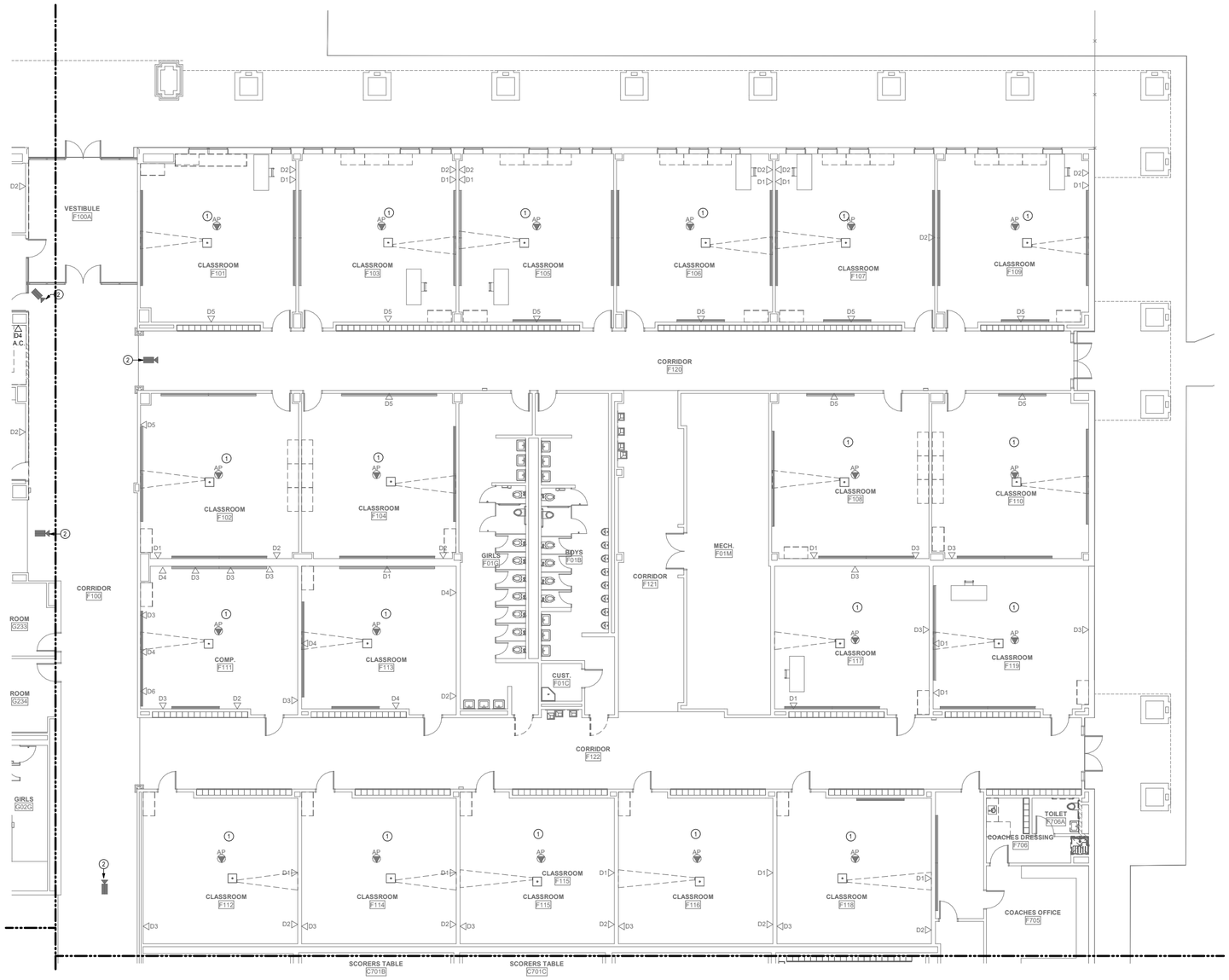

1 **1ST LEVEL TECHNOLOGY DEMO PLAN - AREA F**
SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFCI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

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E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

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1 REMOVE EXISTING DATA CABLING, BACKBOX, AND PRESENTATION CABLING SERVING PROJECTOR IN THIS ROOM. REMOVE MOUNT. PROVIDE BLANK COVER PLATE IN UNUSED WALL BOX LOCATIONS. REMOVE CEILING BOXES AND PROVIDE NEW CEILING TILE.

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LEAF ENGINEERS

Arnold Middle School

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CYPRESS, TX. 77429

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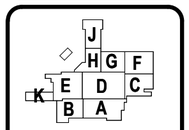
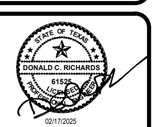
CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM





02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

FINAL PAGE TURN
BUILDING NUMBER

1ST LEVEL TECHNOLOGY DEMO PLAN - AREA F

TND-101F

1ST LEVEL TECHNOLOGY DEMO PLAN - AREA F
TND-101F
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1ST LEVEL TECHNOLOGY DEMO PLAN - AREA G

TND-101G

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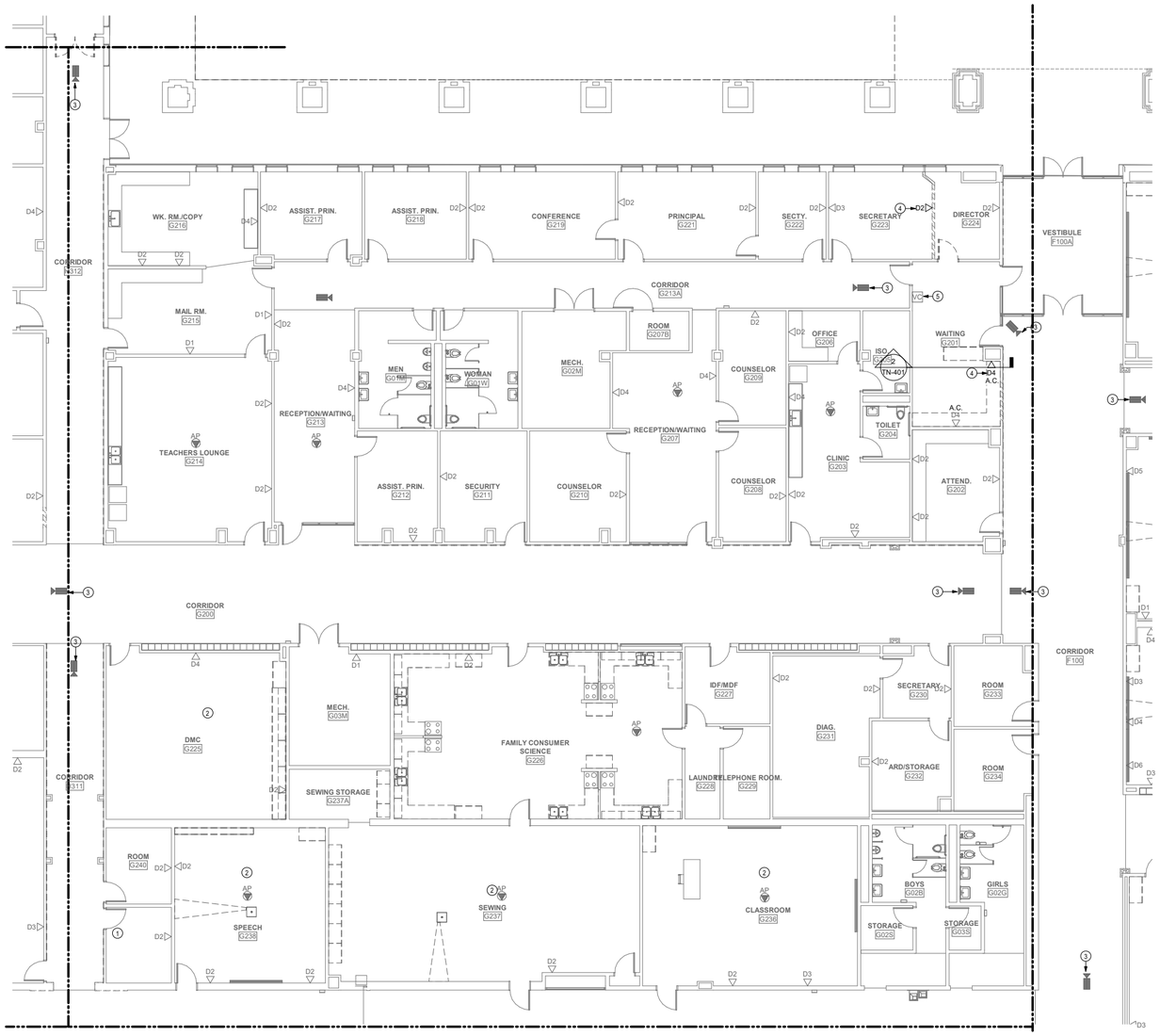

1 1ST LEVEL TECHNOLOGY DEMO PLAN - AREA G
SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

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F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

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I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

(#) TECHNOLOGY KEYED NOTES

1
2 REMOVE EXISTING DATA CABLING, BACKBOX, AND PRESENTATION CABLING SERVING PROJECTOR IN THIS ROOM. REMOVE MOUNT. PROVIDE BLANK COVER PLATE IN UNUSED WALL BOX LOCATIONS. REMOVE CEILING BOXES AND PROVIDE NEW CEILING TILE.
3 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT. DATA CABLING SHALL BE OFOI.
4 REMOVE DATA CABLES, BACKBOX, CONDUIT, AND RETURN TO OWNER.
5 INDICATES A DEVICE THAT IS EXISTING TO REMAIN.

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LEAF ENGINEERS

Arnold Middle School

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CYPRESS, TX 77429

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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61522
LICENSED PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

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BUILDING NUMBER

1ST LEVEL TECHNOLOGY DEMO PLAN - AREA G

TND-101G

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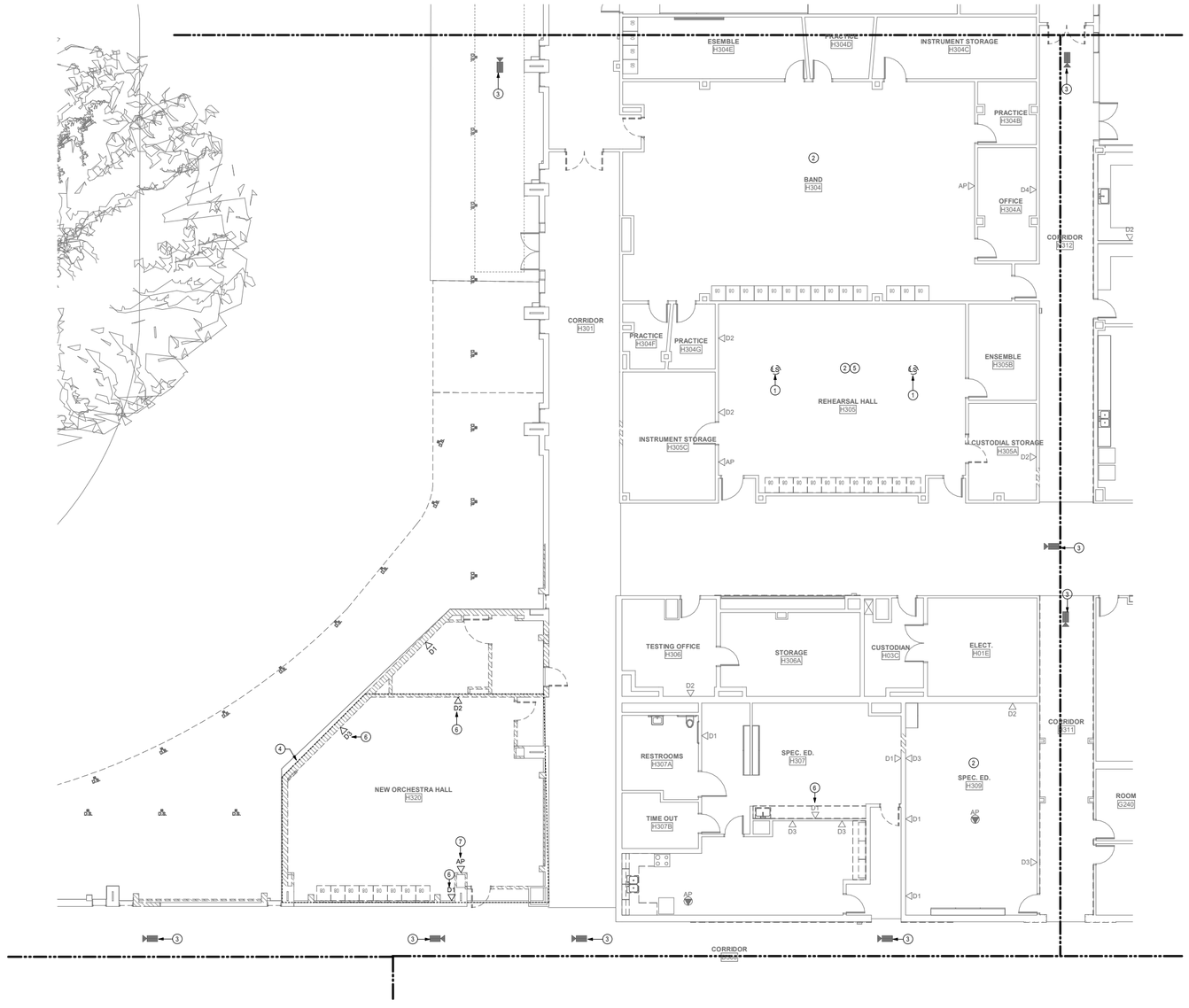

TECHNOLOGY GENERAL NOTES

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J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

TECHNOLOGY KEYED NOTES

1 REMOVE LOCAL SOUND SPEAKER, AUDIO EQUIPMENT, BRACKETS, AND STANDS. TO ACCOMMODATE NEW ACOUSTICAL SOUND PANEL AND RE-INSTALL IN NEW ORCHESTRA HALL H320. PROVIDE ALL MOUNTING EQUIPMENT AND ACCESSOIES IN ORDER TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE FINAL LOCATION WITH THE DISTRICTS TECHNOLOGY DEPARTMENT ON FINAL LOCATIONS.

2 REMOVE EXISTING DATA CABLING, BACKBOX, AND PRESENTATION CABLING SERVING PROJECTOR IN THIS ROOM. REMOVE MOUNT. PROVIDE BLANK COVER PLATE IN UNUSED WALL BOX LOCATIONS. REMOVE CEILING BOXES AND PROVIDE NEW CEILING TILE.

3 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT DATA CABLING SHALL BE OFOI.

4 THIS AREA IS BEING DEMOLISHED.

5 RELOCATE EXISTING LIGHTSPEED SYSTEM IN THIS ROOM TO ORCHESTRA ROOM H304.

6 INDICATES A DEVICES AND CABLING THAT IS TO BE REMOVED AND RETURNED TO OWNER. PROVIDE PATCH AND PAINT ON EXISTING LOCATION.

7 INDICATES A DEVICE THAT IS TO BE REMOVED AND REPLACED WITH A NEW DEVICE AND CABLING.

1 **1ST LEVEL TECHNOLOGY DEMO PLAN - AREA H**
SCALE: 1/8" = 1'-0"

0"
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1ST LEVEL TECHNOLOGY DEMO PLAN - AREA H
TND-101H
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LEAF ENGINEERS

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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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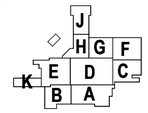
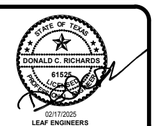


KEY PLAN
NORTH: PLAN TRUE



02/17/2025
LEAF ENGINEERS
F-18672

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Cy-Fair Independent School District

DATE	PROJECT NUMBER
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1ST LEVEL TECHNOLOGY DEMO PLAN - AREA H

TND-101H

FINAL PAGE TURN

1ST LEVEL TECHNOLOGY DEMO PLAN - AREA J

TND-101J

FOR BLUEBEAM LABELING OCR:

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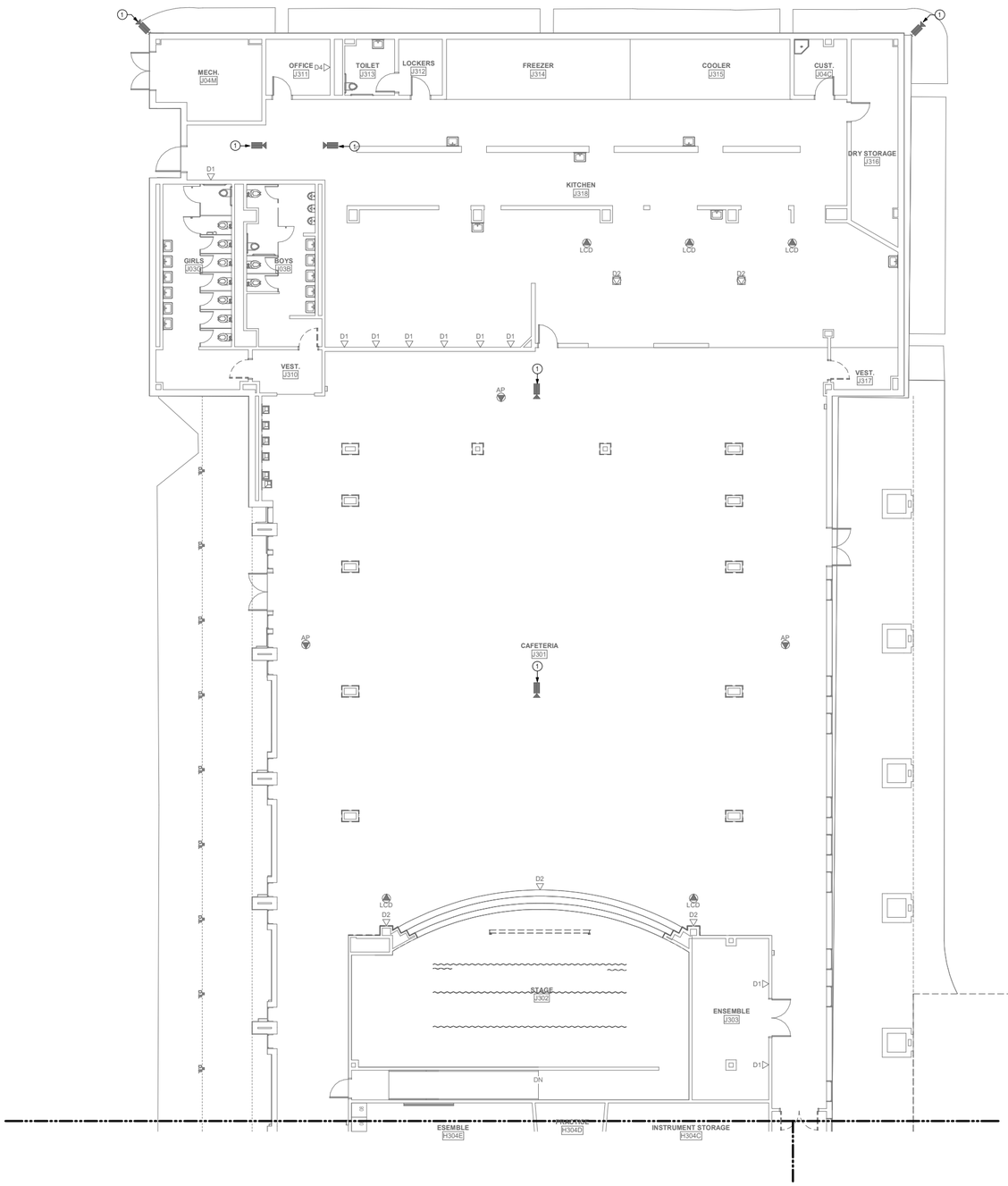

1 1ST LEVEL TECHNOLOGY DEMO PLAN - AREA J
SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES

A. "STRUCTURED CABLING SCOPE OF WORK": THE CONTRACTOR SHALL REPLACE ALL EXISTING DATA AND PHONE CABLES THROUGHOUT BUILDING, BACK TO SOURCE (MDF/IDF), WITH A COMPLETE CAT6A SOLUTION. REFER TO 'TND' SERIES SHEETS FOR ALL EXISTING LOCATIONS. REFER TO 'TN' SERIES SHEETS FOR REPLACEMENT NUMBER OF CABLES AND ANY NEW LOCATIONS. REPLACE ALL EXISTING PATCH PANELS IN EACH MDF/IDF LOCATION. DATA RACKS AND FIBER CABLING ARE EXISTING TO REMAIN. CABLING TO THE EXISTING WIRELESS ACCESS POINTS ARE EXISTING TO REMAIN. ALL DEVICES, DATA CABLING, AND PATCH PANELS ARE OFOI. THIS SCOPE OF WORK IS INTENDED TO OCCUR DURING SUMMER 2026.

B. "INTERCOM AND CLOCK SCOPE OF WORK": THE CONTRACTOR SHALL REMOVE ALL EXISTING CLOCKS EXCEPT THOSE LOCATED IN THE: CAFETERIA / COMMONS, LIBRARY, CLINIC, GYMNASIUMS, AND RECEPTIONIST AREA. PATCH AND PAINT ALL EXISTING LOCATIONS TO MATCH EXISTING SURFACE. THE CONTRACTOR SHALL REPLACE GATEWAYS AND INTERCOM HEAD-END IN MDF G227.

C. "SECURITY CAMERA SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE ALL NEW CAMERAS WHERE INDICATED. DATA CABLING IS OFOI.

D. THE CEILINGS IN THIS BUILDING (EXCEPT ANNEX) ARE TO BE REPLACED AS PART OF THIS PROJECT. ALL EXISTING LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: FIRE ALARM, WIRELESS ACCESS POINTS, INTERCOM, SECURITY CAMERAS, MOTION DETECTORS, ETC. SHALL BE CAREFULLY REMOVED OR TEMPORARILY SUPPORTED AND PROTECTED TO ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF THE CEILING SYSTEM. EXISTING PENETRATIONS ARE TO REMAIN. REFER TO ARCHITECTURAL PLANS FOR THE EXACT LIMITS OF THE CEILING REPLACEMENT AND CEILING TYPE (SHEET A-201). COORDINATE WITH CFISD FOR THE REMOVAL OF EXISTING WIRELESS ACCESS POINTS PRIOR TO DEMOLITION.

E. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.

F. ALL SYSTEMS IN THE EXISTING MDF AND IDF ROOMS SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.

G. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING INSTALLATION.

H. ALL NEW CABLING FOR THE LOCAL SOUND SYSTEMS SHALL BE IN CONDUIT.

I. ALL DEVICES SHOWN ARE TO BE PROVIDED NEW UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.

J. ALL DEVICES THAT ARE EXISTING TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACED ANY DAMAGED CABLING AND DEVICES.

(#) TECHNOLOGY KEYED NOTES

1 INDICATES AN EXISTING SECURITY CAMERA THAT IS TO REMAIN OR TO BE RE-INSTALLED. PROVIDE ALL NEW MOUNTING EQUIPMENT. DATA CABLING SHALL BE OFOI.

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LANDSCAPE
CONSULTANT NAME
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STRUCTURAL
CONSULTANT NAME
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MEP/FP
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FOODSERVICE
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FOOD SERVICE
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OTHER
CONSULTANT NAME
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LEAF ENGINEERS

Arnold Middle School

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FINAL PAGE TURN

CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61524
PROFESSIONAL ENGINEER
02/17/2025
LEAF ENGINEERS
F-18672

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/17/2025	220023

DRAWING HISTORY

No.	Description	Date

FINAL PAGE TURN

BUILDING NUMBER

1ST LEVEL TECHNOLOGY DEMO PLAN - AREA J

TND-101J

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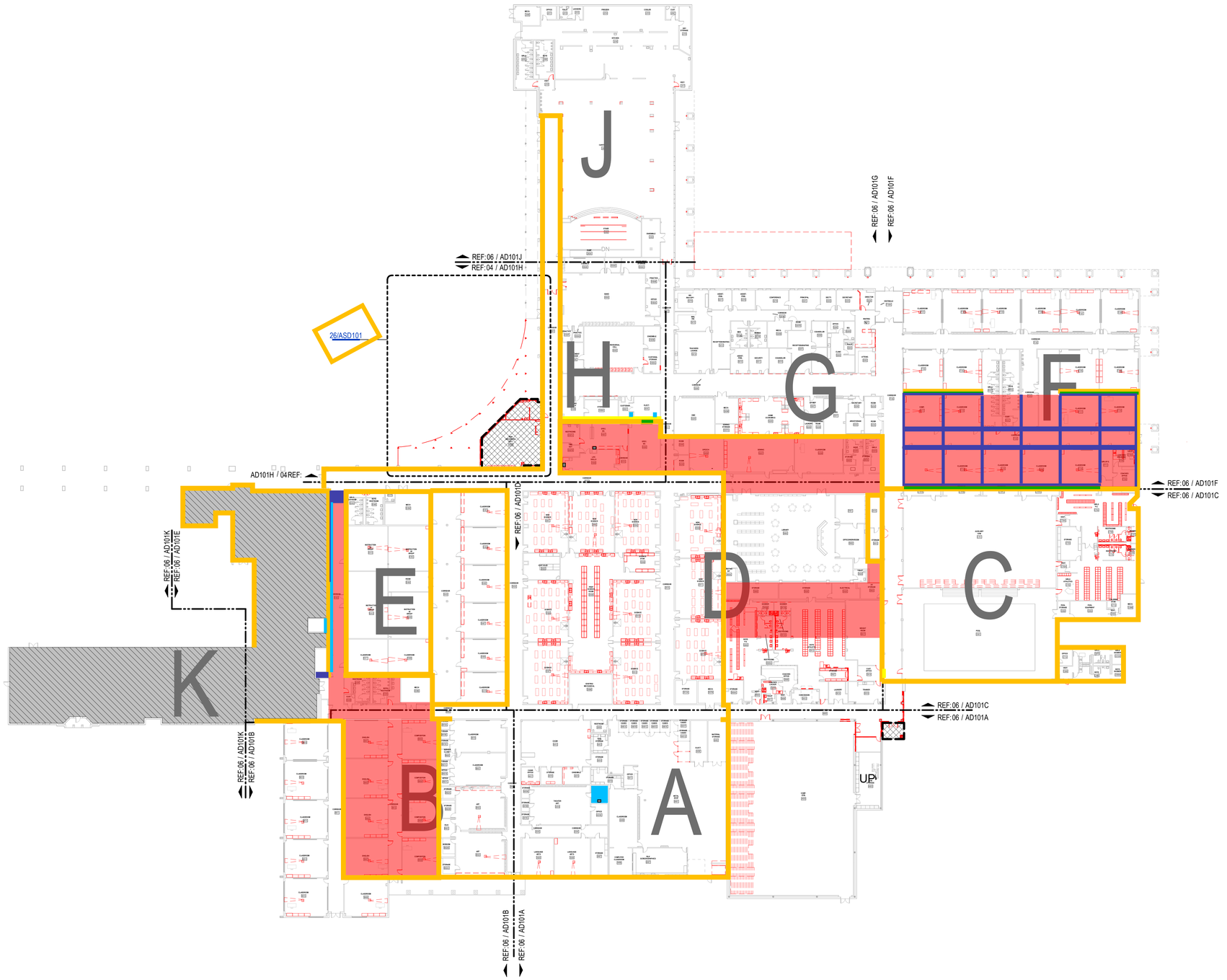
ISSUE FOR PROPOSAL



1ST LEVEL - ASBESTOS FLOOR PLAN - COMPOSITE

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DRAWN BY:
Author - KC

ABATEMENT PLAN GENERAL NOTES:

1. ABATEMENT PLANS WERE DERIVED FROM EXISTING BUILDING PLANS AND ARE INTENDED TO REASONABLY PRESENT EXISTING CONDITIIONS. ABATEMENT CONTRACTOR SHALL VERIFY ACTURAL CONDITIONS AND COORDINATE ABATEMENT AND DEMOLITION WORK.
2. REFERENCE ARCHITECT'S DEMOLITION SPECIFICATIONS AND DRAWINGS FOR DEMOLITION REQUIREMENTS AND EXISTING BUILDING DRAWINGS FOR BUILDING CONSTRUCTION CONDITIONS
3. THESE DRAWINGS ARE REPRESENTATIVE OF TYPICAL CONDITIONS IN THE BUILDING. HOWEVER, THE LOCATIONS OF ALL ASBESTOS CONTAINING MATERIALS ARE NOT SHOWN. ABATEMENT CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE AREAS TO BE ABATED AND THE LOCATIONS OF ALL ASBESTOS-CONTAING MATERIALS.
4. ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT OF ALL ASBESTOS-CONTAINING MATERIALS IMPACTED BY THE RENOVATION SCOPE.
5. THE ASBESTOS ABATEMENT SCOPE OF WORK IS DESCRIBED IN THE ABATEMENT SPECIFICATIONS. THE ASBESTOS ABATEMENT SCOPE OF WORK SHALL ALSO INCLUDE ANY HIDDEN ASBESTOS-CONTAINING MATERIALS THAT MAY BE ASSUMED OR UNCOVERED DURING THE BUILDING SELECTIVE DEMOLITION ACTIVITIES. THE ASBESTOS-CONTAINING MATERIALS IDENTIFIED IN THE BUILDING INCLUDE, AS A MINIMUM, THE FOLLOWING MATERIALS: INTERIOR ASBESTOS-CONTAINING MATERIALS: BLACK DAMPPROOFING MASTICS AND ANY ASSOCIATED FLASHINGS, BLACK FLOOR MASTIC AND/OR ASSOCIATED FLOORING, TEXTURE / PLASTER APPLIED TO CONCRETE DECK PANELS, SINKS, PIPE INSULATION, AND FIRE DOORS (ASSUMED ASBESTOS). EXTERIOR ASBESTOS-CONTAINING MATERIALS: BLACK DAMPPROOFING MASTICS AND ANY ASSOCIATED FLASHINGS.
6. ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND VERIFYING THE ACTUAL QUANTITIES OF ALL ASBESTOS-CONTAINING MATERIALS AND OTHER REGULATED MATERIALS THAT WILL BE ABATED UNDER THE IDENTIFIED SCOPE OF WORK. WHILE SOME OF THE EXISTING AREAS OF ASBESTOS-CONTAINING MATERIALS ARE ACCESSIBLE OR EXPOSED, OTHER AREAS OF ASBESTOS-CONTAINING MATERIALS MAY BE "HIDDEN" (E.G. LOCATED ABOVE CEILINGS; IN WALLS OR CHASES; UNDER CARPET OR OTHER FLOOR FINISH MATERIALS; ABOVE AND/OR UNDER WALLS, MILLWORK, ETC.). ALL "HIDDEN" AREAS OF ASBESTOS-CONTAINING MATERIALS IN AREAS SCHEDULD FOR DEMOLITION IN THE SUBJECT BUILDING SHALL BE UNCOVERED AND ABATED BY THE ABATEMENT CONTRACTOR AS PART OF THE PROJECT SCOPE OF WORK.
7. PERFORM SELECTIVE DEMOLITION OF WALL AREAS, CEILING AREAS, FLOOR AREAS, CHASE AREAS, ETC. AS REQUIRED TO UNCOVER AND LOCATE ALL "HIDDEN" AREAS OF ASBESTOS-CONTAINING MATERIALS IN AREAS SCHEDULED FOR DEMOLITION IN THE SUBJECT BUILDING.
8. REMOVE AND DISPOSE OF CARPET TO FACILITATE REQUIRED ABATEMENT WORK. DISPOSE OF NON-CONTAMINATED CARPET AS CONSTRUCTION WASTE. WHERE CARPET IS ADHERED TO FLOOR TILE/MASTIC WITH ADHESIVE OR MASTIC, AND THE FLOOR TILE/MASTIC IS REMOVED ALONG WITH THE CARPET, REMOVE AND DISPOSE OF CARPET UNDER ABATEMENT CONDITIONS.
9. FOR INTERIOR OR EXTERIOR WALL OPENINGS THAT IMPACT ASBESTOS CONTAINING MATERIALS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR IDENTIFING AND MARKING OFF ANY NEW WALL OPENING LOCATIONS FOR THE ABATMENT CONTRACTOR.
10. ANY LIGHTING, PIPING/INSULATION, CONDUIT, DUCT/INSULATION, CABLING, ETC., TO REMAIN OUTSIDE OF THE DEMOLITION SCOPE AND WILL BE IN A CONTAINMENT AREA IS TO BE CLEANED VIA HEPA VACUUMING AND WET WIPING, THEN PREPED AS DEFINED IN THE ABATEMENT WORK PROCEDURES.

ABATEMENT PLAN KEYED NOTES:

1. DAMP PROOFING BLACK MASTIC APPLIED TO EXTERIOR CMU BLOCK AND ANY ASSOCIATED MASTIC OR FLASHING AROUND DOORS/WINDOWS AND AT COLUMNS, BEAMS OR BRICK LEDGES IN THIS AREA ARE TO BE ABATED. (NESHAP METHODS) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS/MATERIALS TO BE DEMOLISHED.
2. DAMP PROOFING BLACK MASTIC APPLIED TO INTERIOR (ONCE EXTERIOR WALL) CMU BLOCK AND ANY ASSOCIATED MASTIC OR FLASHING AROUND DOORS/ WINDOWS AND ON CLOUMNS, BEAMS OR BRICK LEDGES IN THIS AREA ARE TO BE ABATED. (THAPR - FULL CONTAINMENT) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS/MATERIALS TO BE DEMOLISHED.
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4. DUST/DEBRIS FROM CONCRETE DECK PANEL JOINT PLASTER/TEXTURE FILLER LOCATED ON THE TOPS OF THE CEILINGS AND ADJACENT PLENUM SURFACES (LIGHTING, DUCT, PIPING, ETC.,) IN THIS AREA IS TO BE CLEANED. (THAPR - HEPA VACUUM AND WET WIPE) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS TO BE DEMOLISHED. ABATEMENT CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR ON WHERE TO MAKE OPENING IN HARD CEILINGS.
5. SINKS WITH ASBESTOS UNDERCOATING IN THIS AREA IS TO BE ABATED. (THAPR - COMPONENT REMOVAL) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS TO BE DEMOLISHED.
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7. DEMOLISH THE EXISTING PLASTER FURR DOWNS OVER THE LOCKERS, DEMOLISH THE EXISTING PLASTER FURR DOWNS INSIDE THE CLASSROOMS ABOVE THE DOORWAYS DOWN TO THE CEILING LINE. REMOVE ALL PIPE INSULATION DEBRIS AND TEXTURE DEBRIS ABOVE THE LOCKERS AND IN THE FURR DOWNS ABOVE THE CLASSROOM DOORWAYS, AND ABATE THE TEXTURE APPLIED TO THE CONCRETE DECKING ABOVE THE LOCKERS AND ABOVE THE CLASSROOM DOORWAY AREAS. (THAPR - FULL CONTAINMENT) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS/MATERIALS TO BE DEMOLISHED.

ASBESTOS LEGEND (LOCATION PURPOSES ONLY):

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SSA
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FOOD SERVICE
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POOL/AQUATICS
CONSULTANT NAME
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ISSUE FOR PROPOSAL

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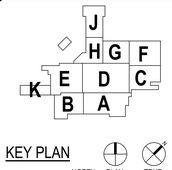

KEY PLAN
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EFI PROJECT#: 029.07189

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/13/2025	220023

DRAWING HISTORY

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ISSUE FOR PROPOSAL

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1ST FLOOR ASBESTOS PLAN - COMPOSITE

ABT101

ISSUE FOR PROPOSAL

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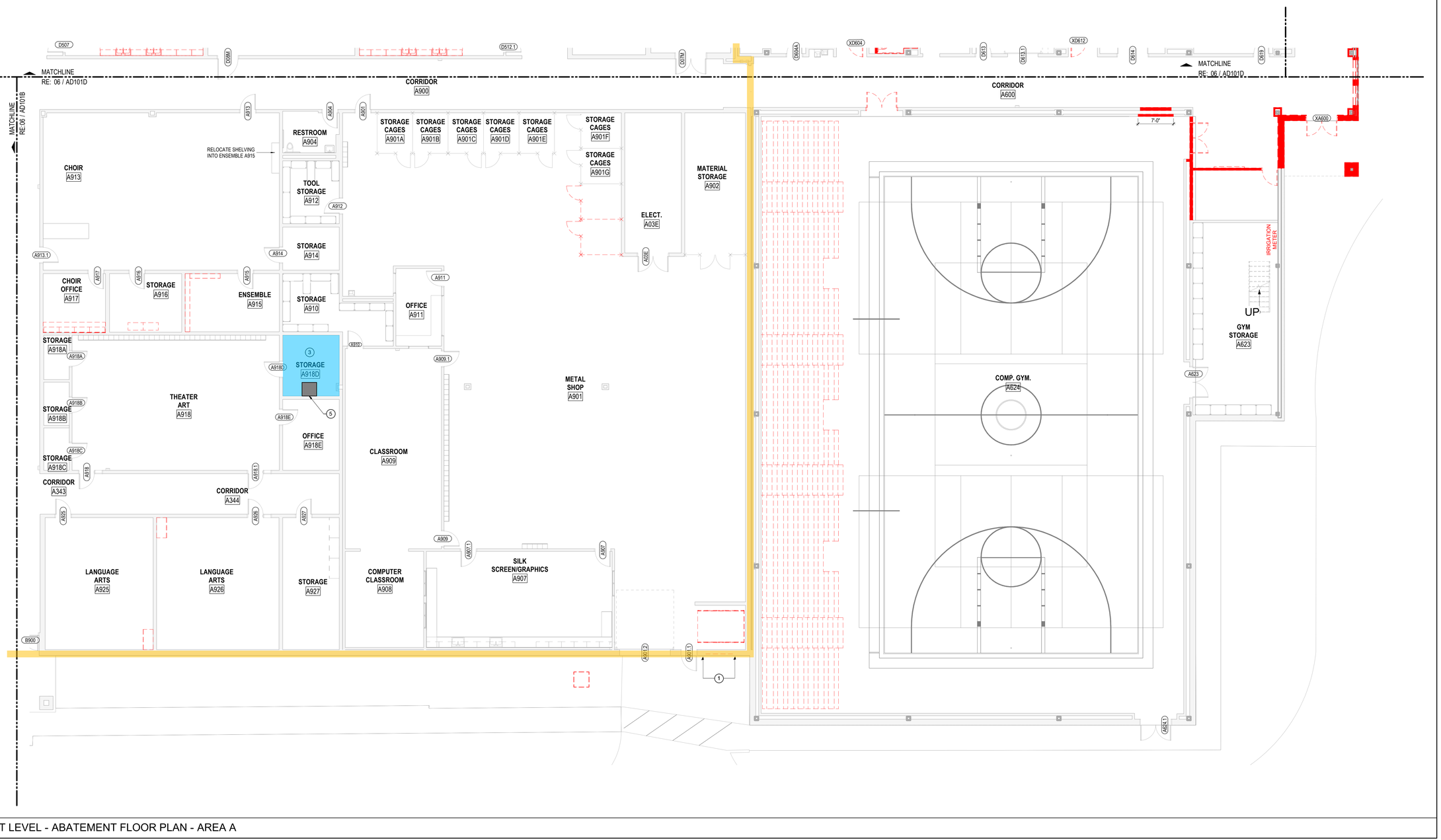

1ST LEVEL - ABATEMENT FLOOR PLAN - AREA A

CHECKED BY:
Checker - RA
DRAWN BY:
Author - KC

PBK

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CYPRESS FAIRBANKS INDEPENDENT SCHOOL DISTRICT
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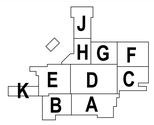

KEY PLAN
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ISSUE FOR PROPOSAL

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1ST FLOOR ABATEMENT PLAN - AREA A

ABT101A

ISSUE FOR PROPOSAL

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5. THE ASBESTOS ABATEMENT SCOPE OF WORK IS DESCRIBED IN THE ABATEMENT SPECIFICATIONS. THE ASBESTOS ABATEMENT SCOPE OF WORK SHALL ALSO INCLUDE ANY HIDDEN ASBESTOS-CONTAINING MATERIALS THAT MAY BE ASSUMED OR UNCOVERED DURING THE BUILDING SELECTIVE DEMOLITION ACTIVITIES. THE ASBESTOS-CONTAINING MATERIALS IDENTIFIED IN THE BUILDING INCLUDE, AS A MINIMUM, THE FOLLOWING MATERIALS: INTERIOR ASBESTOS-CONTAINING MATERIALS: BLACK DAMPPROOFING MASTICS AND ANY ASSOCIATED FLASHINGS, BLACK FLOOR MASTIC AND/OR ASSOCIATED FLOORING, TEXTURE / PLASTER APPLIED TO CONCRETE DECK PANELS, SINKS, PIPE INSULATION, AND FIRE DOORS (ASSUMED ASBESTOS). EXTERIOR ASBESTOS-CONTAINING MATERIALS: BLACK DAMPPROOFING MASTICS AND ANY ASSOCIATED FLASHINGS.
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7. PERFORM SELECTIVE DEMOLITION OF WALL AREAS, CEILING AREAS, FLOOR AREAS, CHASE AREAS, ETC. AS REQUIRED TO UNCOVER AND LOCATE ALL "HIDDEN" AREAS OF ASBESTOS-CONTAINING MATERIALS IN AREAS SCHEDULED FOR DEMOLITION IN THE SUBJECT BUILDING.
8. REMOVE AND DISPOSE OF CARPET TO FACILITATE REQUIRED ABATEMENT WORK. DISPOSE OF NON-CONTAMINATED CARPET AS CONSTRUCTION WASTE. WHERE CARPET IS ADHERED TO FLOOR TILE/MASTIC WITH ADHESIVE OR MASTIC, AND THE FLOOR TILE/MASTIC IS REMOVED ALONG WITH THE CARPET, REMOVE AND DISPOSE OF CARPET UNDER ABATEMENT CONDITIONS.
9. FOR INTERIOR OR EXTERIOR WALL OPENINGS THAT IMPACT ASBESTOS CONTAINING MATERIALS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR IDENTIFING AND MARKING OFF ANY NEW WALL OPENING LOCATIONS FOR THE ABATMENT CONTRACTOR.
10. ANY LIGHTING, PIPING/INSULATION, CONDUIT, DUCT/INSULATION, CABLING, ETC... TO REMAIN OUTSIDE OF THE DEMOLITION SCOPE AND WILL BE IN A CONTAINMENT AREA IS TO BE CLEANED VIA HEPA VACUUMING AND WET WIPING, THEN PREPED AS DEFINED IN THE ABATEMENT WORK PROCEDURES.

ABATEMENT PLAN KEYED NOTES:

1. DAMP PROOFING BLACK MASTIC APPLIED TO EXTERIOR CMU BLOCK AND ANY ASSOCIATED MASTIC OR FLASHING AROUND DOORS/WINDOWS AND AT COLUMNS, BEAMS OR BRICK LEDGES IN THIS AREA ARE TO BE ABATED. (NESHAP METHODS) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS/MATERIALS TO BE DEMOLISHED.
2. DAMP PROOFING BLACK MASTIC APPLIED TO INTERIOR (ONCE EXTERIOR WALL) CMU BLOCK AND ANY ASSOCIATED MASTIC OR FLASHING AROUND DOORS/WINDOWS AND ON CLOUMNS, BEAMS OR BRICK LEDGES IN THIS AREA ARE TO BE ABATED. (THAPR - FULL CONTAINMENT) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS/MATERIALS TO BE DEMOLISHED.
3. BLACK FLOOR MASTIC AND/OR ASSOCIATED FLOORING IN THIS AREA IS TO BE ABATED. (THAPR - FULL CONTAINMENT) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS/MATERIALS TO BE DEMOLISHED.
4. DUST/DEBRIS FROM CONCRETE DECK PANEL JOINT PLASTER/TEXTURE FILLER LOCATED ON THE TOPS OF THE CEILINGS AND ADJACENT PLENUM SURFACES (LIGHTING, DUCT, PIPING, ETC..) IN THIS AREA IS TO BE CLEANED. (THAPR - HEPA VACUUM AND WET WIPE) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS TO BE DEMOLISHED. ABATEMENT CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR ON WHERE TO MAKE OPENING IN HARD CEILINGS.
5. SINKS WITH ASBESTOS UNDERCOATING IN THIS AREA IS TO BE ABATED. (THAPR - COMPONENT REMOVAL) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS TO BE DEMOLISHED.
6. PLASTER/TEXTURE APPLIED TO THE CONCRETE DECK PANELS AND ANY OVERSPRAY ON BEAMS, AND/OR ADJACENT WALLS IN THIS AREA IS TO BE ABATED. (THAPR - FULL CONTAINMENT) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS/ MATERIALS TO BE DEMOLISHED.
7. DEMOLISH THE EXISTING PLASTER FURR DOWNS OVER THE LOCKERS, DEMOLISH THE EXISTING PLASTER FURR DOWNS INSIDE THE CLASSROOMS ABOVE THE DOORWAYS DOWN TO THE CEILING LINE. REMOVE ALL PIPE INSULATION DEBRIS AND TEXTURE DEBRIS ABOVE THE LOCKERS AND IN THE FURR DOWNS ABOVE THE CLASSROOM DOORWAYS, AND ABATE THE TEXTURE APPLIED TO THE CONCRETE DECKING ABOVE THE LOCKERS AND ABOVE THE CLASSROOM DOORWAY AREAS. (THAPR - FULL CONTAINMENT) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS/MATERIALS TO BE DEMOLISHED.

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- SINKS WITH BLACK OR PINK UNDERCOATING
- FIBER CEMENT "TRANSITE" PANELS LOCATED ABOVE CEILING
- ABANDONED WINDOWS WITH GLAZING PUTTY AROUND THE GLASS.

1ST LEVEL - ABATEMENT FLOOR PLAN - AREA B

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CLIENT: Cy-Fair Independent School District
DATE: 02/13/2025
PROJECT NUMBER: 220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL
BUILDING NUMBER

1ST FLOOR ABATEMENT PLAN - AREA B

ABT101B

ISSUE FOR PROPOSAL

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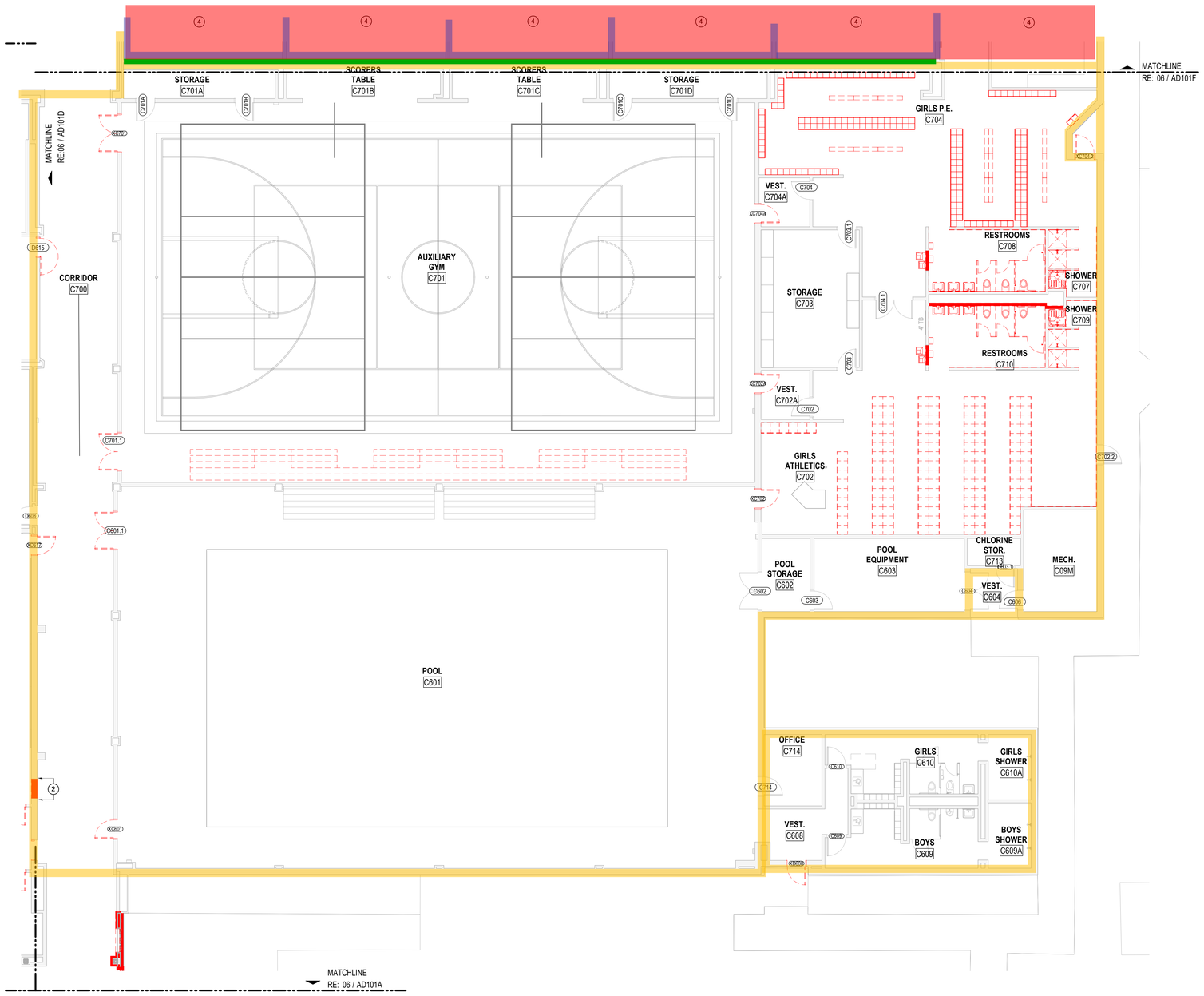

1ST LEVEL - ABATEMENT FLOOR PLAN - AREA C

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CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/13/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR ABATEMENT PLAN - AREA C

ABT101C

ISSUE FOR PROPOSAL

ABATEMENT PLAN GENERAL NOTES:

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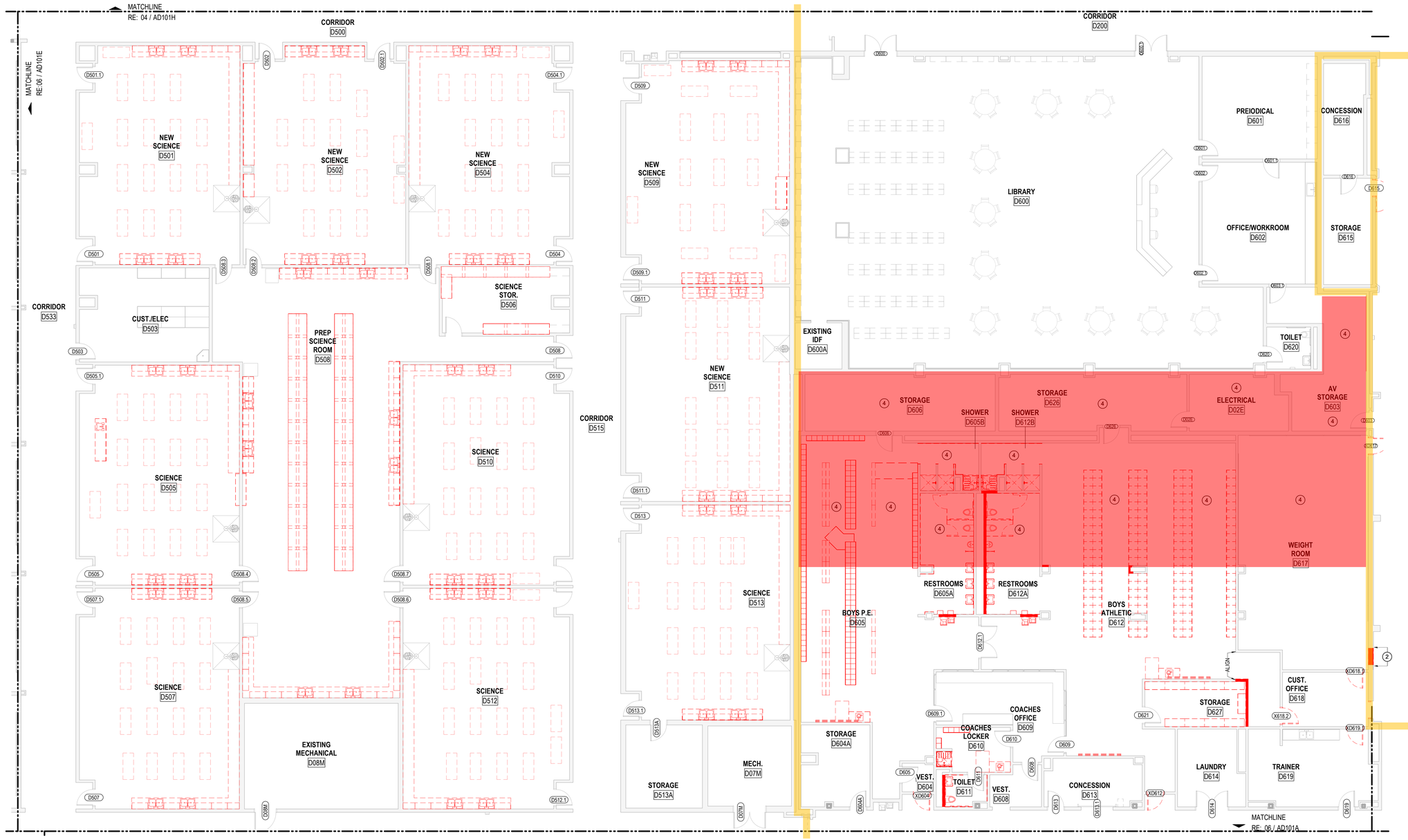

1ST LEVEL - ABATEMENT FLOOR PLAN - AREA D

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Arnold Middle School

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ISSUE FOR PROPOSAL

CYPRESS FAIRBANKS
INDEPENDENT SCHOOL DISTRICT
LEARN • EMPOWER • ACHIEVE • DREAM

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KEY PLAN
NORTH: PLAN TRUE

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EFI PROJECT#: 029.07189

CLIENT
Cy-Fair Independent School District

DATE	PROJECT NUMBER
02/13/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR ABATEMENT PLAN - AREA D

ABT101D

ISSUE FOR PROPOSAL

ABATEMENT PLAN GENERAL NOTES:

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2. REFERENCE ARCHITECT'S DEMOLITION SPECIFICATIONS AND DRAWINGS FOR DEMOLITION REQUIREMENTS AND EXISTING BUILDING DRAWINGS FOR BUILDING CONSTRUCTION CONDITIONS
3. THESE DRAWINGS ARE REPRESENTATIVE OF TYPICAL CONDITIONS IN THE BUILDING. HOWEVER, THE LOCATIONS OF ALL ASBESTOS CONTAINING MATERIALS ARE NOT SHOWN. ABATEMENT CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE AREAS TO BE ABATED AND THE LOCATIONS OF ALL ASBESTOS-CONTAING MATERIALS.
4. ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT OF ALL ASBESTOS-CONTAINING MATERIALS IMPACTED BY THE RENOVATION SCOPE.
5. THE ASBESTOS ABATEMENT SCOPE OF WORK IS DESCRIBED IN THE ABATEMENT SPECIFICATIONS. THE ASBESTOS ABATEMENT SCOPE OF WORK SHALL ALSO INCLUDE ANY HIDDEN ASBESTOS-CONTAINING MATERIALS THAT MAY BE ASSUMED OR UNCOVERED DURING THE BUILDING SELECTIVE DEMOLITION ACTIVITIES. THE ASBESTOS-CONTAINING MATERIALS IDENTIFIED IN THE BUILDING INCLUDE, AS A MINIMUM, THE FOLLOWING MATERIALS: INTERIOR ASBESTOS-CONTAINING MATERIALS: BLACK DAMPPROOFING MASTICS AND ANY ASSOCIATED FLASHINGS, BLACK FLOOR MASTIC AND/OR ASSOCIATED FLOORING, TEXTURE / PLASTER APPLIED TO CONCRETE DECK PANELS, SINKS, PIPE INSULATION, AND FIRE DOORS (ASSUMED ASBESTOS). EXTERIOR ASBESTOS-CONTAINING MATERIALS: BLACK DAMPPROOFING MASTICS AND ANY ASSOCIATED FLASHINGS.
6. ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND VERIFYING THE ACTUAL QUANTITIES OF ALL ASBESTOS-CONTAINING MATERIALS AND OTHER REGULATED MATERIALS THAT WILL BE ABATED UNDER THE IDENTIFIED SCOPE OF WORK. WHILE SOME OF THE EXISTING AREAS OF ASBESTOS-CONTAINING MATERIALS ARE ACCESSIBLE OR EXPOSED, OTHER AREAS OF ASBESTOS-CONTAINING MATERIALS MAY BE "HIDDEN" (E.G. LOCATED ABOVE CEILINGS; IN WALLS OR CHASES; UNDER CARPET OR OTHER FLOOR FINISH MATERIALS; ABOVE AND/OR UNDER WALLS, MILLWORK, ETC.). ALL "HIDDEN" AREAS OF ASBESTOS-CONTAINING MATERIALS IN AREAS SCHEDULD FOR DEMOLITION IN THE SUBJECT BUILDING SHALL BE UNCOVERED AND ABATED BY THE ABATEMENT CONTRACTOR AS PART OF THE PROJECT SCOPE OF WORK.
7. PERFORM SELECTIVE DEMOLITION OF WALL AREAS, CEILING AREAS, FLOOR AREAS, CHASE AREAS, ETC. AS REQUIRED TO UNCOVER AND LOCATE ALL "HIDDEN" AREAS OF ASBESTOS-CONTAINING MATERIALS IN AREAS SCHEDULED FOR DEMOLITION IN THE SUBJECT BUILDING.
8. REMOVE AND DISPOSE OF CARPET TO FACILITATE REQUIRED ABATEMENT WORK. DISPOSE OF NON-CONTAMINATED CARPET AS CONSTRUCTION WASTE. WHERE CARPET IS ADHERED TO FLOOR TILE/MASTIC WITH ADHESIVE OR MASTIC, AND THE FLOOR TILE/MASTIC IS REMOVED ALONG WITH THE CARPET, REMOVE AND DISPOSE OF CARPET UNDER ABATEMENT CONDITIONS.
9. FOR INTERIOR OR EXTERIOR WALL OPENINGS THAT IMPACT ASBESTOS CONTAINING MATERIALS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR IDENTIFING AND MARKING OFF ANY NEW WALL OPENING LOCATIONS FOR THE ABATMENT CONTRACTOR.
10. ANY LIGHTING, PIPING/INSULATION, CONDUIT, DUCT/INSULATION, CABLING, ETC... TO REMAIN OUTSIDE OF THE DEMOLITION SCOPE AND WILL BE IN A CONTAINMENT AREA IS TO BE CLEANED VIA HEPA VACUUMING AND WET WIPING, THEN PREPED AS DEFINED IN THE ABATEMENT WORK PROCEDURES.

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6. PLASTER/TEXTURE APPLIED TO THE CONCRETE DECK PANELS AND ANY OVERSPRAY ON BEAMS, AND/OR ADJACENT WALLS IN THIS AREA IS TO BE ABATED. (THAPR - FULL CONTAINMENT) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS/ MATERIALS TO BE DEMOLISHED.
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1ST LEVEL - ABATEMENT FLOOR PLAN - AREA E

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Author - KC

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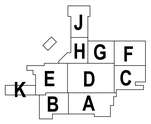

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ABT101E

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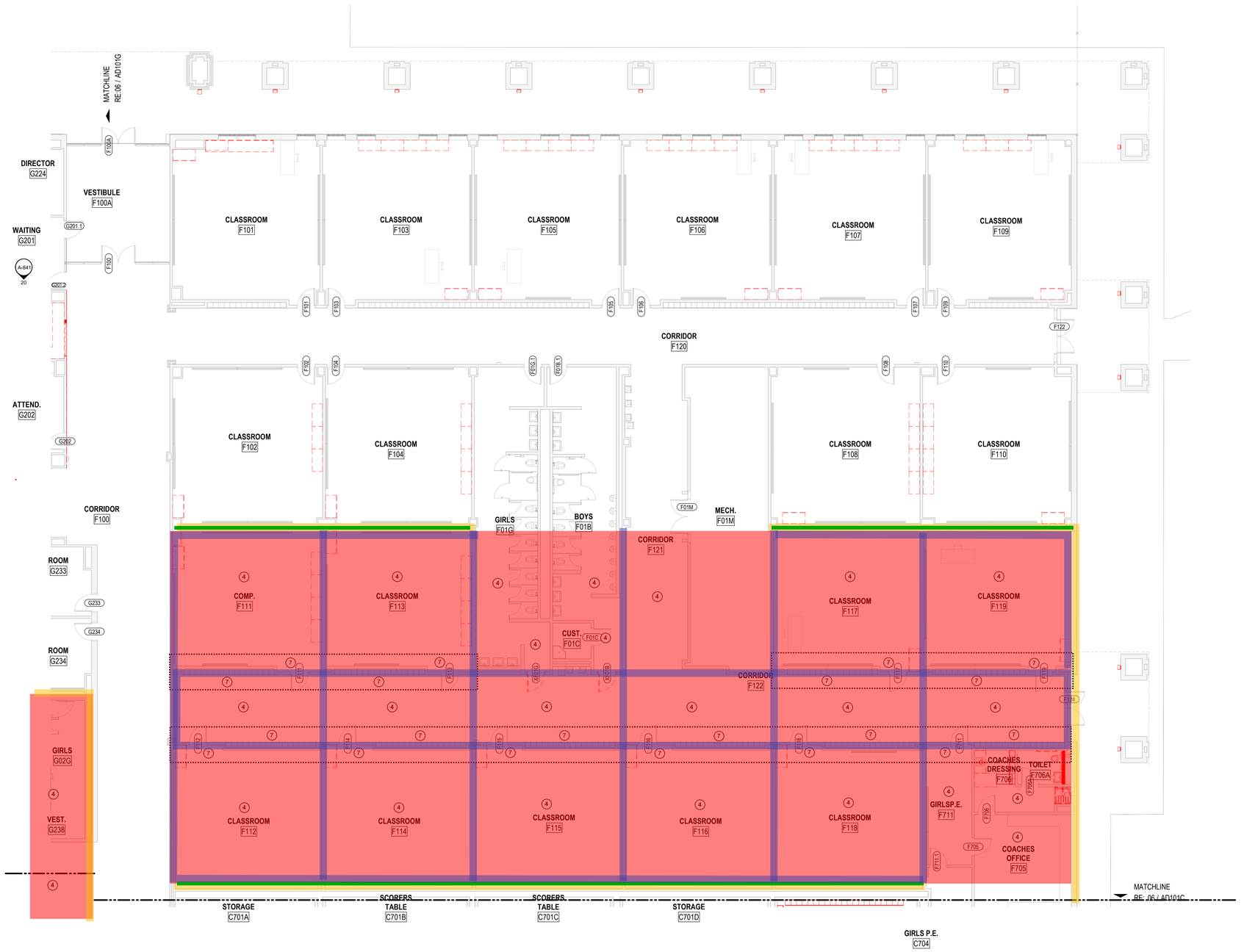

1ST LEVEL - ABATEMENT FLOOR PLAN - AREA F

CHECKED BY:
Checker - RA
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Author - KC

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1ST FLOOR ABATEMENT PLAN - AREA F

ABT101F

ISSUE FOR PROPOSAL

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7. DEMOLISH THE EXISTING PLASTER FURR DOWNS OVER THE LOCKERS, DEMOLISH THE EXISTING PLASTER FURR DOWNS INSIDE THE CLASSROOMS ABOVE THE DOORWAYS DOWN TO THE CEILING LINE. REMOVE ALL PIPE INSULATION DEBRIS AND TEXTURE DEBRIS ABOVE THE LOCKERS AND IN THE FURR DOWNS ABOVE THE CLASSROOM DOORWAYS, AND ABATE THE TEXTURE APPLIED TO THE CONCRETE DECKING ABOVE THE LOCKERS AND ABOVE THE CLASSROOM DOORWAY AREAS. (THAPR - FULL CONTAINMENT) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS/MATERIALS TO BE DEMOLISHED.

ASBESTOS LEGEND (LOCATION PURPOSES ONLY):

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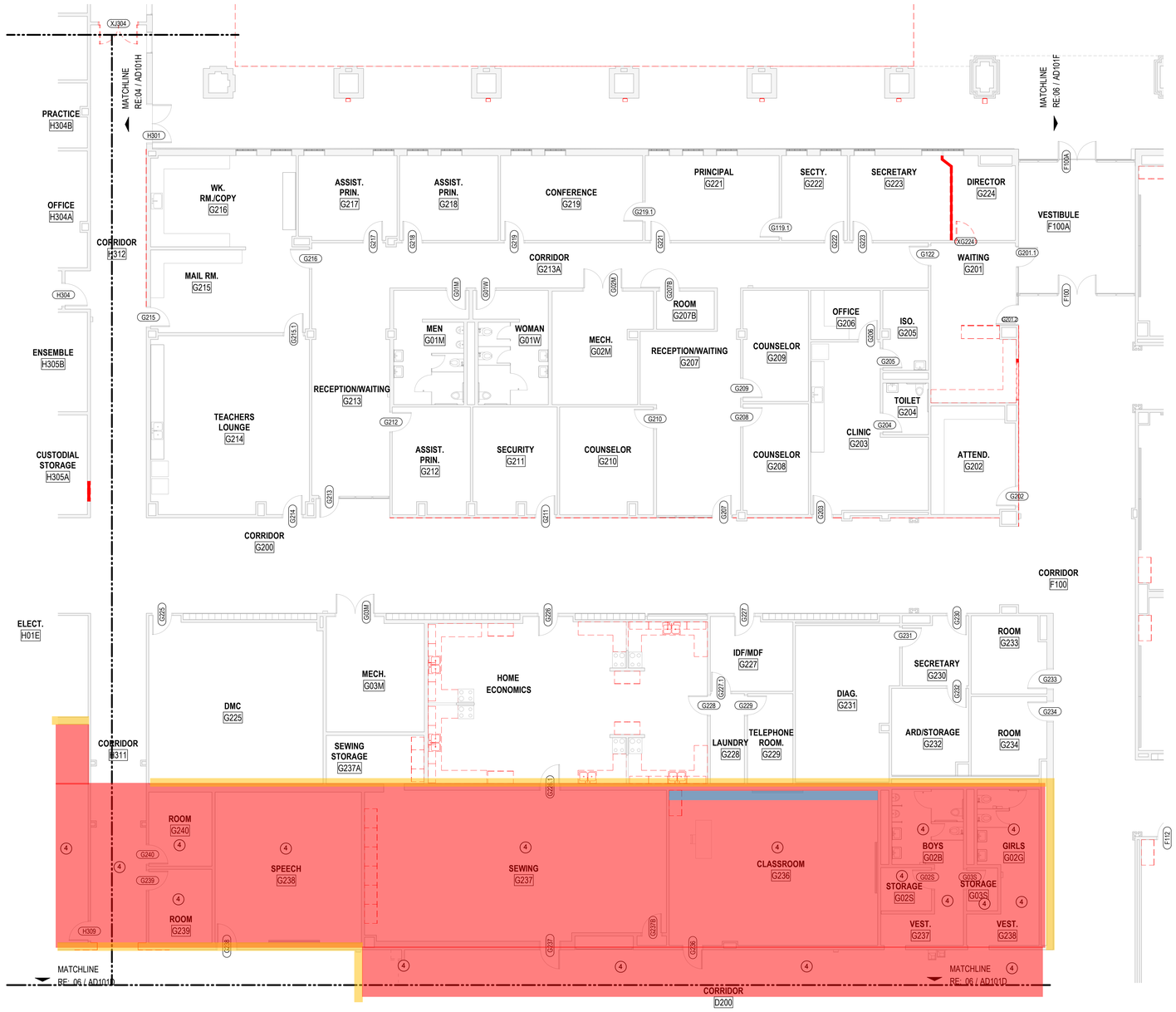

1ST LEVEL - ABATEMENT FLOOR PLAN - AREA G

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DATE	PROJECT NUMBER
02/13/2025	220023

DRAWING HISTORY

No.	Description	Date

ISSUE FOR PROPOSAL

BUILDING NUMBER

1ST FLOOR ABATEMENT PLAN - AREA G

ABT101G

ISSUE FOR PROPOSAL

ABATEMENT PLAN GENERAL NOTES:

1. ABATEMENT PLANS WERE DERIVED FROM EXISTING BUILDING PLANS AND ARE INTENDED TO REASONABLY PRESENT EXISTING CONDITIIONS. ABATEMENT CONTRACTOR SHALL VERIFY ACTURAL CONDITIONS AND COORDINATE ABATEMENT AND DEMOLITION WORK.
2. REFERENCE ARCHITECT'S DEMOLITION SPECIFICATIONS AND DRAWINGS FOR DEMOLITION REQUIREMENTS AND EXISTING BUILDING DRAWINGS FOR BUILDING CONSTRUCTION CONDITIONS
3. THESE DRAWINGS ARE REPRESENTATIVE OF TYPICAL CONDITIONS IN THE BUILDING. HOWEVER, THE LOCATIONS OF ALL ASBESTOS CONTAINING MATERIALS ARE NOT SHOWN. ABATEMENT CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE AREAS TO BE ABATED AND THE LOCATIONS OF ALL ASBESTOS-CONTAING MATERIALS.
4. ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT OF ALL ASBESTOS-CONTAINING MATERIALS IMPACTED BY THE RENOVATION SCOPE.
5. THE ASBESTOS ABATEMENT SCOPE OF WORK IS DESCRIBED IN THE ABATEMENT SPECIFICATIONS. THE ASBESTOS ABATEMENT SCOPE OF WORK SHALL ALSO INCLUDE ANY HIDDEN ASBESTOS-CONTAINING MATERIALS THAT MAY BE ASSUMED OR UNCOVERED DURING THE BUILDING SELECTIVE DEMOLITION ACTIVITIES. THE ASBESTOS-CONTAINING MATERIALS IDENTIFIED IN THE BUILDING INCLUDE, AS A MINIMUM, THE FOLLOWING MATERIALS: INTERIOR ASBESTOS-CONTAINING MATERIALS: BLACK DAMPPROOFING MASTICS AND ANY ASSOCIATED FLASHINGS, BLACK FLOOR MASTIC AND/OR ASSOCIATED FLOORING, TEXTURE / PLASTER APPLIED TO CONCRETE DECK PANELS, SINKS, PIPE INSULATION, AND FIRE DOORS (ASSUMED ASBESTOS). EXTERIOR ASBESTOS-CONTAINING MATERIALS: BLACK DAMPPROOFING MASTICS AND ANY ASSOCIATED FLASHINGS.
6. ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND VERIFYING THE ACTUAL QUANTITIES OF ALL ASBESTOS-CONTAINING MATERIALS AND OTHER REGULATED MATERIALS THAT WILL BE ABATED UNDER THE IDENTIFIED SCOPE OF WORK. WHILE SOME OF THE EXISTING AREAS OF ASBESTOS-CONTAINING MATERIALS ARE ACCESSIBLE OR EXPOSED, OTHER AREAS OF ASBESTOS-CONTAINING MATERIALS MAY BE "HIDDEN" (E.G. LOCATED ABOVE CEILINGS; IN WALLS OR CHASES; UNDER CARPET OR OTHER FLOOR FINISH MATERIALS; ABOVE AND/OR UNDER WALLS, MILLWORK, ETC.). ALL "HIDDEN" AREAS OF ASBESTOS-CONTAINING MATERIALS IN AREAS SCHEDULD FOR DEMOLITION IN THE SUBJECT BUILDING SHALL BE UNCOVERED AND ABATED BY THE ABATEMENT CONTRACTOR AS PART OF THE PROJECT SCOPE OF WORK.
7. PERFORM SELECTIVE DEMOLITION OF WALL AREAS, CEILING AREAS, FLOOR AREAS, CHASE AREAS, ETC. AS REQUIRED TO UNCOVER AND LOCATE ALL "HIDDEN" AREAS OF ASBESTOS-CONTAINING MATERIALS IN AREAS SCHEDULED FOR DEMOLITION IN THE SUBJECT BUILDING.
8. REMOVE AND DISPOSE OF CARPET TO FACILITATE REQUIRED ABATEMENT WORK. DISPOSE OF NON-CONTAMINATED CARPET AS CONSTRUCTION WASTE. WHERE CARPET IS ADHERED TO FLOOR TILE/MASTIC WITH ADHESIVE OR MASTIC, AND THE FLOOR TILE/MASTIC IS REMOVED ALONG WITH THE CARPET, REMOVE AND DISPOSE OF CARPET UNDER ABATEMENT CONDITIONS.
9. FOR INTERIOR OR EXTERIOR WALL OPENINGS THAT IMPACT ASBESTOS CONTAINING MATERIALS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR IDENTIFING AND MARKING OFF ANY NEW WALL OPENING LOCATIONS FOR THE ABATMENT CONTRACTOR.
10. ANY LIGHTING, PIPING/INSULATION, CONDUIT, DUCT/INSULATION, CABLING, ETC... TO REMAIN OUTSIDE OF THE DEMOLITION SCOPE AND WILL BE IN A CONTAINMENT AREA IS TO BE CLEANED VIA HEPA VACUUMING AND WET WIPING, THEN PREPED AS DEFINED IN THE ABATEMENT WORK PROCEDURES.

ABATEMENT PLAN KEYED NOTES:

1. DAMP PROOFING BLACK MASTIC APPLIED TO EXTERIOR CMU BLOCK AND ANY ASSOCIATED MASTIC OR FLASHING AROUND DOORS/WINDOWS AND AT COLUMNS, BEAMS OR BRICK LEDGES IN THIS AREA ARE TO BE ABATED. (NESHAP METHODS) REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT SCOPE OF DEMO AND REMOVAL. FIELD VERIFY ALL COMPONENTS/MATERIALS TO BE DEMOLISHED.
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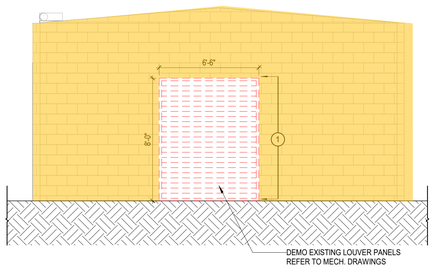
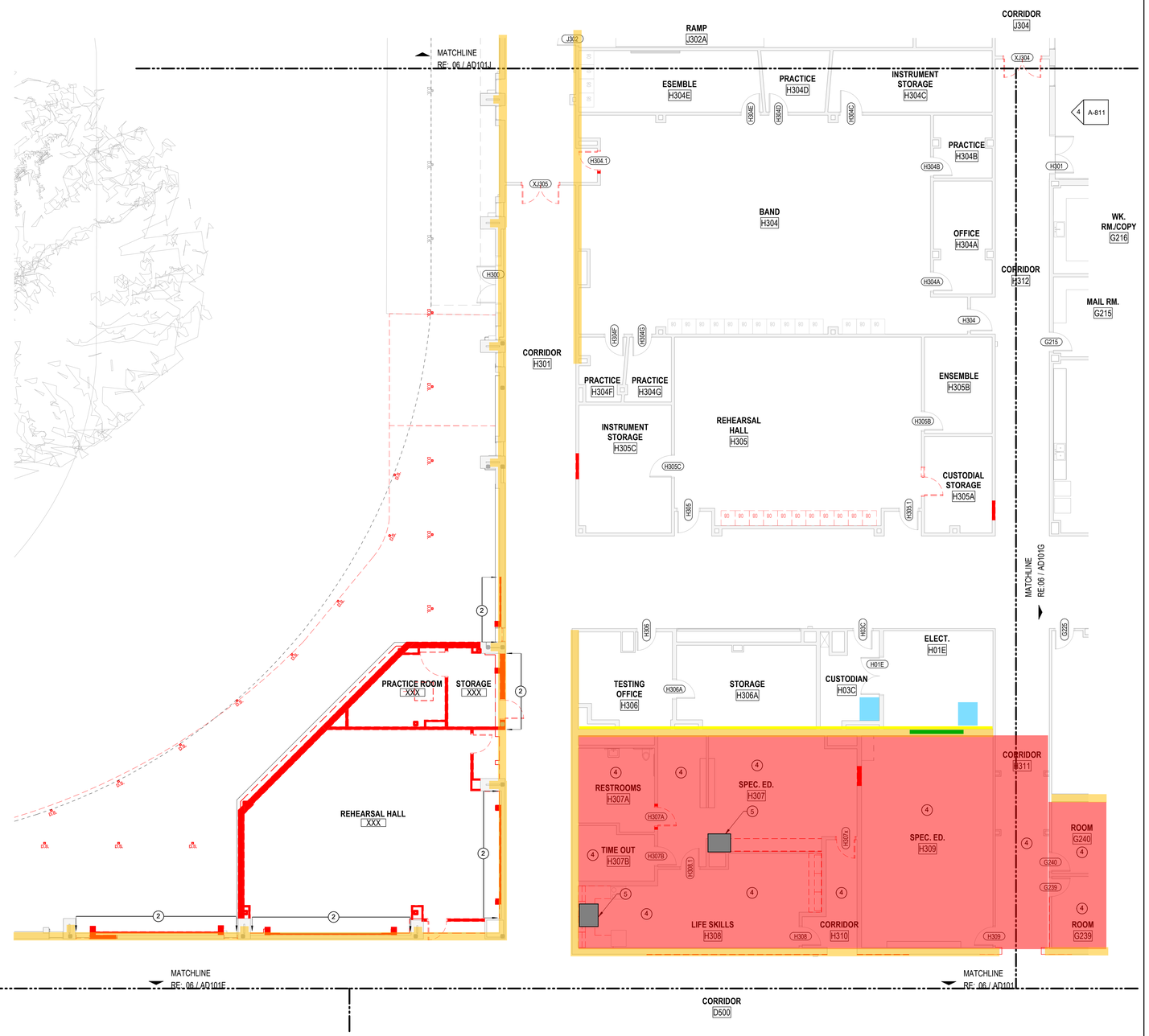


MECHANICAL LOUVER ABATEMENT DETAIL

MECHANICAL BUILDING - ENLARGED ABATEMENT PLAN



1ST LEVEL - ABATEMENT FLOOR PLAN - AREA H

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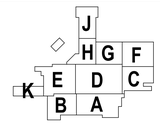

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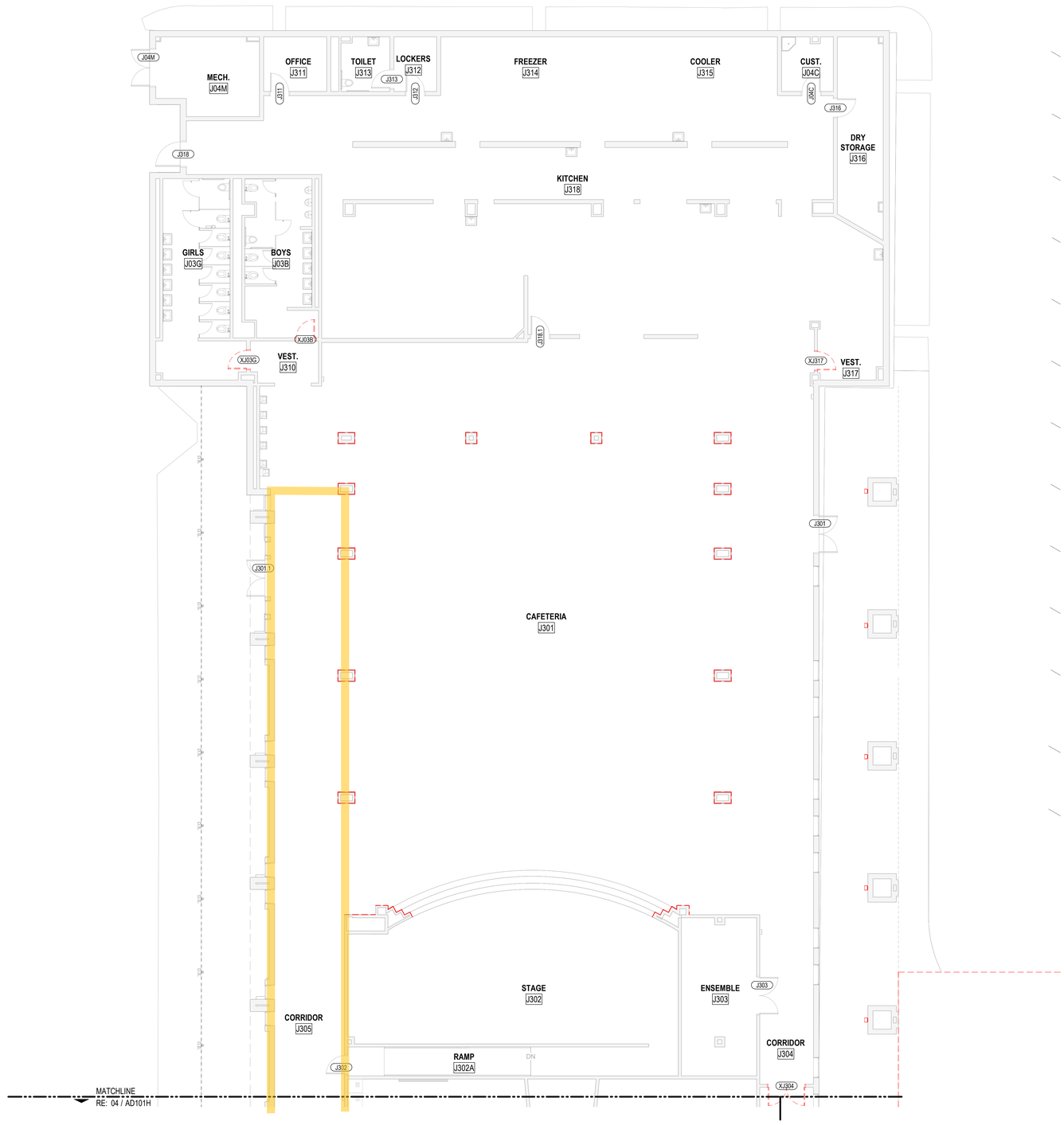

1ST LEVEL - ABATEMENT FLOOR PLAN - AREA J

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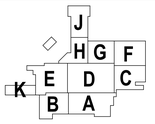

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