DALLAS ISD

BOND2020

OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

DALLAS
INDEPENDENT SCHOOL DISTRICT

		MEP	STRUCTURAL	ARCHITECTURAL	CIVIL	PROGRAM MGR.	DALLAS ISD BOARD	DALLAS ISD OFFICE
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ALLIANCE ARCHITECTS

REGISTERED ARCHITECT STATE OF TEXAS

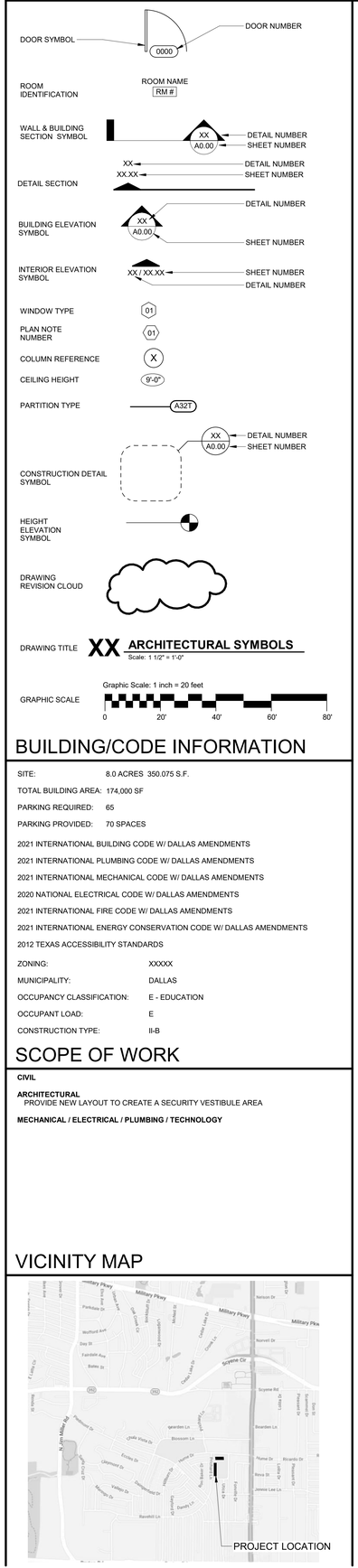
09/18/2024

ORG 207 DISD SAN JACINTO ELEMENTARY

7900 Hume Dr, Dallas, TX 75227

BID SET

PROJECT NO.: 2023209 DATE: 09/18/24



ARCHITECTURAL SYMBOLS

BUILDING/CODE INFORMATION

SITE:	8.0 ACRES 350.075 S.F.
TOTAL BUILDING AREA:	174,000 SF
PARKING REQUIRED:	65
PARKING PROVIDED:	70 SPACES

2021 INTERNATIONAL BUILDING CODE W/ DALLAS AMENDMENTS

2021 INTERNATIONAL PLUMBING CODE W/ DALLAS AMENDMENTS

2021 INTERNATIONAL MECHANICAL CODE W/ DALLAS AMENDMENTS

2020 NATIONAL ELECTRICAL CODE W/ DALLAS AMENDMENTS

2021 INTERNATIONAL FIRE CODE W/ DALLAS AMENDMENTS

2021 INTERNATIONAL ENERGY CONSERVATION CODE W/ DALLAS AMENDMENTS

2012 TEXAS ACCESSIBILITY STANDARDS

ZONING:	XXXXX
MUNICIPALITY:	DALLAS
OCCUPANCY CLASSIFICATION:	E - EDUCATION
OCCUPANT LOAD:	E
CONSTRUCTION TYPE:	II-B

SCOPE OF WORK

CIVIL

ARCHITECTURAL
PROVIDE NEW LAYOUT TO CREATE A SECURITY VESTIBULE AREA

MECHANICAL / ELECTRICAL / PLUMBING / TECHNOLOGY

VICINITY MAP

PROJECT LOCATION

GENERAL NOTES

- THE AMERICAN INSTITUTE OF ARCHITECTS STANDARD FORM AIA DOCUMENT A201, SEVENTEENTH EDITION, 2017 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," IS HEREBY MADE A PART OF THESE CONTRACT DOCUMENTS.
- UNLESS OTHERWISE INDICATED, THE CONTRACTOR WILL PROCURE AND PAY FOR ALL PERMITS, TESTS, LICENSES, CERTIFICATES, TAP FEES, IMPACT FEES AND REGISTRATIONS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING PERFORMANCE OF THE WORK.
- UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR, MATERIALS, TEMPORARY UTILITIES, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, TRANSPORTATION, AND OTHER FACILITIES AND SERVICES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL PROVIDE ALL RISK BUILDER'S RISK PROPERTY INSURANCE FOR THE DURATION OF CONSTRUCTION. REFER TO OWNER/CONTRACTOR AGREEMENT FOR SPECIFIC REQUIREMENTS.
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND STANDARDS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION.
- THIS FACILITY HAS BEEN DESIGNED TO COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND THE AMERICANS WITH DISABILITIES ACT (ADA). GRAPHIC GUIDELINES FOR CLEARANCES AT DOORS AND TOILET ROOMS HAVE BEEN PROVIDED FOR REFERENCE. WHERE DIMENSIONS INDICATED OR PRODUCTS SPECIFIED HEREIN DO NOT COMPLY WITH GUIDELINES NOTIFY THE ARCHITECT IN WRITING PRIOR TO ORDERING THE ITEM IN QUESTION OR CONSTRUCTING THE AFFECTED ASSEMBLY.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REQUIRED DIMENSIONS AS THEY RELATE TO NEW CONSTRUCTION PRIOR TO THE START OF CONSTRUCTION. REPORT ANY DISCREPANCIES BETWEEN EXISTING WORK AND THE DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCING WORK.
- DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT FOR A RESOLUTION PRIOR TO PROCEEDING.
- THE CONTRACTOR SHALL NOT STORE BUILDING MATERIALS, STAGE CONSTRUCTION OPERATIONS FROM, NOR GAIN ACCESS TO THE CONSTRUCTION SITE OVER ADJACENT PROPERTIES.
- ALL PLAN DETAILS AND WALL SECTIONS ARE ASSUMED TO BE TYPICAL CONDITIONS UNLESS NOTED OTHERWISE.
- ALL DAMAGE TO CONCRETE FLOOR SLAB CAUSED BY THE ATTACHMENT OF FORMWORK, BRACING, CONSTRUCTION TRAFFIC, MATERIAL STORAGE OR OTHER REASONS SHALL BE CLEANED AND PATCHED.
- ALL PIPING, CONDUIT, ETC. RUN ON THE EXTERIOR FACE OF THE BUILDING SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE.
- PROVIDE EXIT SIGNAGE, FIRE EXTINGUISHERS, AND EMERGENCY LIGHTING AS REQUIRED BY LOCAL CODES.
- CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED WORK; THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORK AND PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING OF LOADS (FINAL AND INTERIM CONSTRUCTION), EXCAVATION PROTECTION, SCAFFOLDING AND ALL OTHER JOB SITE SAFETY ISSUES. SITE OBSERVATION BY THE ARCHITECT, OWNER OR ENGINEER SHALL NOT CONSTITUTE INSPECTION OR APPROVAL OF ABOVE ITEMS.
- SPOILS FROM EXCAVATION, FOUNDATION OR UTILITIES NOT REUSED SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
- ALL WELD BURNS, SCRATCHES, ETC. ON STRUCTURAL STEEL AND DECKING SHALL BE CLEANED AND REPAINTED TO MATCH ADJACENT SURFACES.
- WINDOW AND CURTAINWALL SYSTEMS SHOWN ARE BASED ON MANUFACTURER STANDARD DETAILS AND SHALL BE USED FOR BIDDING PURPOSES ONLY. SHOP DRAWINGS SHALL BE SUBMITTED WITH THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER. LOAD CALCULATIONS SHALL REFLECT DESIGN VALUES AS REQUIRED BY THE CITY AND THE PROJECT MANUAL.
- EXTERIOR DOORS SHALL RECEIVE WEATHERSTRIPPING AND DRIP GUARDS UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
- NO PVC OR OTHER NON-APPROVED MATERIAL MAY BE USED IN AIR PLENUMS UNLESS IT IS FIRE PROTECTED PER CITY AND OTHER REGULATORY REQUIREMENTS.
- PENETRATIONS THROUGH FIRE RATED WALLS OR CEILINGS SHALL BE FIRE SAFED AND SEALED AS REQUIRED TO MAINTAIN THE RATING. DUCTWORK PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE PROVIDED WITH AN APPROPRIATELY TESTED AND APPROVED FIRE AND/OR SMOKE DAMPER.
- ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED. PROVIDE WOOD BLOCKING IN ALL STUD WALLS AT MILLWORK, AND SPECIAL ITEM ANCHORING POINTS. WOOD BLOCKING SHALL BE MOISTURE TREATED IF LOCATED IN DAMP LOCATIONS OR ADJACENT TO CONCRETE OR MASONRY CONSTRUCTION.
- INSTALL KNOX BOX IN A LOCATION APPROVED BY THE CITY.
- ANY PENETRATIONS OF LOAD BEARING WALLS SHALL REQUIRE A SIGNED AND SEALED DETAIL FROM A STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL ENSURE MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS ARE IN GOOD WORKING ORDER PRIOR TO OCCUPANCY.
- ALL GYPSUM BOARD CORNERS SHALL HAVE CONTINUOUS METAL CORNER BEADS FLOOR TO CEILING. ALL EXPOSED GYPSUM BOARD EDGES SHALL HAVE METAL "L" BEADS CONTINUOUS FLOOR TO CEILING.
- ALL PENETRATIONS IN DRYWALL CONSTRUCTION ABOVE FINISHED CEILING SHALL BE SEALED TO PREVENT SOUND LEAKAGE.
- PATCH AND SEAL ALL PENETRATIONS IN FLOOR TO COMPLY WITH APPLICABLE BUILDING AND/OR FIRE CODES.
- ALL PLUMBING CHASES ARE TO EXTEND TO THE UNDERSIDE OF STRUCTURE ABOVE, UNLESS NOTED OTHERWISE.
- RECESSED FIXTURES SHALL BE CENTERED IN CEILING PANEL OR GYPSUM BOARD PANEL, UNLESS NOTED OTHERWISE.
- TWO (2) OR MORE LIGHT SWITCHES IN THE SAME LOCATION SHALL BE GANGED TOGETHER WITH A SINGLE COVERPLATE.
- THE CONTRACTOR SHALL UNDERCUT DOORS AS REQUIRED FOR FLOOR FINISHES, BUT NO GREATER THAN CODE ALLOWS FOR RATING REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR UNDERCUTTING OF DOORS AT TOILETS AND JANITORS CLOSETS FOR RETURN AIR.
- ALL FASTENINGS AND ATTACHMENTS SHALL BE FULLY CONCEALED FROM VIEW.
- ALL CLOSETS TO HAVE THE SAME FINISH AS ADJACENT SPACES.
- ALL GRILLES AND DIFFUSERS TO BE PAINTED TO MATCH THE SURFACE ON WHICH THEY OCCUR.
- ALL SHELVING TO BE PAINTED IN SEMI-GLOSS TO MATCH WALL IN WHICH IT OCCURS UNLESS NOTED OTHERWISE.
- ALL FLOOR FINISH CHANGES AT DOORWAYS TO OCCUR UNDER DOORS IN CLOSED POSITIONS.
- ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH TO FACE OF FINISH.
- PARTITIONS:

A. PARTITIONS ABUTTING WINDOW WALL SYSTEM SHALL NOT BE ATTACHED TO MULLIONS BY SCREWS OR OTHER MECHANICAL FASTENERS. VOIDS BETWEEN PARTITION AND MULLION SHALL BE FILLED COMPLETELY WITH COMPRESSIBLE FIBER.

B. PROVIDE BRACING ABOVE GLAZED OPENING FRAMES & CEILING-HEIGHT PARTITIONS WHEN LONG UNBRACED LENGTHS OCCUR AND AT ALL DOORS, GLAZED OPENING JAMBS & MULLIONS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

C. ALL TOILET ROOM WALLS TO RECEIVE MOISTURE RESISTANT GYPSUM WALLBOARD.

D. ALL DIMENSIONS ARE TO FINISH FACE OF PARTITION, INCLUDING WOOD OR STONE FINISHES, UNLESS NOTED OTHERWISE. REFER TO PLANS FOR PARTITION TYPES.

- FLOOR TOLERANCE: IN LAYING OUT AND DETAILING THE WORK TO BE COMPLETED, CONSIDERATION SHALL BE GIVEN TO VARIATIONS IN THE FLOOR LEVELNESS RESULTING FROM CONSTRUCTION QUALITY AND LIVE AND DEAD LOADS IMPOSED ON THE STRUCTURE. FIELD VERIFICATIONS SHALL BE MADE OF CONDITIONS TO VERIFY CONSTRUCTION TOLERANCES. ALIGNMENT OF DOOR HEADS AND OTHER
- HORIZONTAL ELEMENTS SHALL BE MAINTAINED AT A CONSTANT LEVEL AND SHALL NOT FOLLOW VARIATIONS IN FLOOR PLANE. LEVEL FLOOR AS REQUIRED USING APPROVED LEVELING COMPOUND.
- "TYPICAL" (TYP.) MEANS THE REFERENCED DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL MECHANICAL AND ELECTRICAL ITEMS INDICATED ON THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. ALL ITEMS INDICATED ON ANY DRAWING ARE TO BE INCLUDED AS A COMPLETE SYSTEM.
- WHERE ELECTRICAL, MECHANICAL AND/OR OTHER WALL MOUNTED DEVICES OCCUR AT THE SAME LOCATION BUT AT DIFFERENT HEIGHTS, THEY SHALL BE CENTERED ABOVE EACH OTHER.
- PROVIDE MINI-BLINDS/ROLLER SHADES AT ALL EXTERIOR GLASS OPENING UNLESS NOTED OTHERWISE. REFER TO SPECS FOR SELECTION.
- PROVIDE PROJECT RECORD DOCUMENTS WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION.

DRAWING INDEX

GENERAL

NUMBER	SHEET NAME	SD PHASE	DD PHASE	50% CD	95% CD	100% CD	BID SET	CURRENT SET
G0.01	COVER	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
G0.02	INDEX OF DRAWINGS	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
G0.03	TEXAS ACCESSIBILITY STANDARDS (TAS) AND MOUNTING HEIGHTS	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
PH.01	OVERALL FLOOR PLAN - PHASING PLAN				08/16/24	09/09/24	09/18/24	09/18/24

CIVIL

NUMBER	SHEET NAME	SD PHASE	DD PHASE	50% CD	95% CD	100% CD	BID SET	CURRENT SET
C1.00	GENERAL NOTES	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
C2.00	EXISTING CONDITIONS & DEMOLITION PLAN	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
C3.00	SITE PLAN	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
C4.00	CIVIL DETAILS	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24

ARCHITECTURAL

NUMBER	SHEET NAME	SD PHASE	DD PHASE	50% CD	95% CD	100% CD	BID SET	CURRENT SET
A0.01	OVERALL DEMOLITION PLAN	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
A0.02	ENLARGED DEMOLITION PLANS	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
A1.01	SITE PLAN	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
A1.02	MARQUEE SIGNAGE & DETAILS	04/29/24				09/09/24	09/18/24	09/18/24
A2.01	OVERALL FLOOR PLAN	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
A2.02	SECOND FLOOR PLAN, MODULAR BUILDING RCP & ROOF PLAN	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
A2.03	ENLARGED PLANS, DOOR SCHEDULES, DETAILS, & FINISHES	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24

STRUCTURAL

NUMBER	SHEET NAME	SD PHASE	DD PHASE	50% CD	95% CD	100% CD	BID SET	CURRENT SET
S1.01	STRUCTURAL NOTES	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
S1.02	SPECIAL INSPECTIONS	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
S2.01	MARQUEE SIGN FRAMING PLAN AND DETAILS	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
S3.01	MARQUEE SIGN FRAMING PLAN AND DETAILS				08/16/24	09/09/24	09/18/24	09/18/24

MECHANICAL

NUMBER	SHEET NAME	SD PHASE	DD PHASE	50% CD	95% CD	100% CD	BID SET	CURRENT SET
M0.01	MECHANICAL COVER	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M0.11	PARTIAL MECHANICAL DEMO FIRST FLOOR PLAN 'A1'						09/18/24	09/18/24
M0.12	PARTIAL MECHANICAL DEMO FIRST FLOOR PLAN 'A2'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M0.13	PARTIAL MECHANICAL DEMO FIRST FLOOR PLAN 'B1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M0.22	PARTIAL MECHANICAL DEMO SECOND FLOOR PLAN 'A2'			06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M0.31	PARTIAL MECHANICAL DEMO ROOF PLAN 'A1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M0.32	PARTIAL MECHANICAL DEMO ROOF PLAN 'A2'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M0.33	PARTIAL MECHANICAL DEMO ROOF PLAN 'B1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M0.34	PARTIAL MECHANICAL DEMO ROOF PLAN 'B2'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M1.11	PARTIAL MECHANICAL FIRST FLOOR PLAN 'A1'						09/18/24	09/18/24
M1.12	PARTIAL MECHANICAL FIRST FLOOR PLAN 'A2'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M1.13	PARTIAL MECHANICAL FIRST FLOOR PLAN 'B1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M1.14	PARTIAL MECHANICAL FIRST FLOOR PLAN 'B2'		05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M1.22	PARIAL MECHANICAL SECOND FLOOR PLAN 'A2'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M1.31	PARTIAL MECHANICAL ROOF PLAN 'A1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M1.32	PARTIAL MECHANICAL ROOF PLAN 'A2'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M1.33	PARTIAL MECHANICAL ROOF PLAN 'B1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M1.34	PARTIAL MECHANICAL ROOF PLAN 'B2'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M3.01	MECHANICAL DETAILS		05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M3.02	MECHANICAL DETAILS			06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M4.01	MECHANICAL EQUIPMENT SCHEDULES		05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M6.01	MECHANICAL CONTROLS COVER SHEET	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
M6.02	MECHANICAL CONTROLS SCHEMATICS	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24

PLUMBING

NUMBER	SHEET NAME	SD PHASE	DD PHASE	50% CD	95% CD	100% CD	BID SET	CURRENT SET
P0.01	PLUMBING COVER	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
P0.11	PARTIAL PLUMBING DEMO FIRST FLOOR PLAN 'A1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
P0.31	PARTIAL PLUMBING DEMO ROOF PLAN 'B1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
P0.32	PARTIAL PLUMBING DEMO ROOF PLAN 'B2'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
P1.11	PARTIAL PLUMBING FIRST FLOOR PLAN 'A1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
P1.31	PARTIAL PLUMBING ROOF PLAN 'B1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
P1.32	PARTIAL PLUMBING ROOF PLAN 'B2'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
P3.01	PLUMBING DETAILS			06/21/24	08/16/24	09/09/24	09/18/24	09/18/24

ELECTRICAL

NUMBER	SHEET NAME	SD PHASE	DD PHASE	50% CD	95% CD	100% CD	BID SET	CURRENT SET
E0.01	ELECTRICAL COVER	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E0.11	PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'A1'			06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E0.12	PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'A2'			06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E0.13	PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'B1' (BID ALTERNATE 1)	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E0.14	PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'B2' (BID ALTERNATE 1)	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E0.31	PARTIAL ELECTRICAL DEMO ROOF PLAN 'A1'			06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E0.32	PARTIAL ELECTRICAL DEMO ROOF PLAN 'A2'			06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E0.33	PARTIAL ELECTRICAL DEMO ROOF PLAN 'B1'			06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E0.34	PARTIAL ELECTRICAL DEMO ROOF PLAN 'B2'			06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E1.00	ELECTRICAL SITE PLAN	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E1.11	PARTIAL LIGHTING FIRST FLOOR PLAN 'A1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E1.12	PARTIAL LIGHTING FIRST FLOOR PLAN 'A2'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E1.13	PARTIAL LIGHTING FIRST FLOOR PLAN 'B1' (BID ALTERNATE 1)	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E1.14	PARTIAL LIGHTING FIRST FLOOR PLAN 'B2' (BID ALTERNATE 1)	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E1.21	PARTIAL LIGHTING SECOND FLOOR PLAN 'A1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E1.22	PARTIAL LIGHTING SECOND FLOOR PLAN 'A2'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E2.11	PARTIAL POWER FIRST FLOOR PLAN 'A1'		05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E2.21	PARTIAL POWER SECOND FLOOR PLAN 'A1'					09/09/24	09/18/24	09/18/24
E2.22	PARTIAL POWER SECOND FLOOR PLAN 'A2'					09/09/24	09/18/24	09/18/24
E2.30	POWER PLAN - ROOF		05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
E3.01	ELECTRICAL DETAILS		05/20/24	06/21/24		09/09/24	09/18/24	09/18/24
E4.01	ELECTRICAL SCHEDULES AND DIAGRAMS		05/20/24	06/21/24		09/09/24	09/18/24	09/18/24
FA1.10	FIRE ALARM PLAN - FIRST FLOOR - OVERALL	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
FA1.20	FIRE ALARM PLAN - SECOND FLOOR - OVERALL	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
T001	TECHNOLOGY COVER				08/16/24	09/09/24	09/18/24	09/18/24
TS1.11	PARTIAL SECURITY AND SYSTEMS PLAN FIRST FLOOR AREA 'A1'	04/29/24	05/20/24	06/21/24	08/16/24	09/09/24	09/18/24	09/18/24
TS2.13	PARTIAL SECURITY AND SYSTEMS PLAN FIRST FLOOR AREA 'B1' AND 'B2'						09/18/24	09/18/24
TS3.01	TECHNOLOGY AND SECURITY DETAILS						09/18/24	09/18/24

ROOFING

NUMBER	SHEET NAME	SD PHASE	DD PHASE	50% CD	95% CD	100% CD	BID SET	CURRENT SET
R1	ROOF PLAN				08/16/24	09/09/24	09/18/24	09/18/24
R2	ROOF DETAILS				08/16/24	09/09/24	09/18/24	09/18/24

ABBREVIATIONS

#	NUMBER, POUND
@	AT
+/-	PLUS OR MINUS
A	AMPERES
A/C	AIR CONDITIONED(ING)
AC	ACRES
ACOUST.	ACOUSTICAL
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
B.O.	BOTTOM OF
BD.	BOARD
BLDG.	BUILDING
BLVD.	BOULEVARD
CL	CENTERLINE
C.S.	CAST STONE
CCT.	CIRCUIT
CFM	CUBIC FEET PER MINUTE
CIR.	CIRCLE
CJ.	CONTROL JOINT
CLG.	CEILING
CLO.	CLOSET
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
COORD.	COORDINATE
CORR.	CORRIDOR
CT.	COURT
DBA	DECIBELS (A-WEIGHTED SCALE)
DED.	DEDICATED
DIA.	DIAMETER
DIR.	DIRECTION
DR.	DRIVE
DTL.	DETAIL
DWG.	DRAWING
E	EAST
E.G.	SUCH AS
E.I.F.S.	EXTERIOR INSULATED FINISH SYSTEM
EA.	EACH
EJ.	EXPANSION JOINT
EL., EL	ELEVATION
ELEC.	ELECTRICAL
ELECT.	ELECTRICAL
ELEV(S).	ELEVATION(S), ELEVATOR
EQ.	EQUAL
EQUIP.	EQUIPMENT
ETC.	ETCETERA
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXP.	EXPANSION
EXPWY.	EXPRESSWAY
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.D.	FLOOR DRAIN
F.F.	FINISH FLOOR
FIN.	FINISH
FLR.	FLOOR
FM	FARM-TO-MARKET
FT.	FOOT(FEET)
GA, G.A.	GAUGE
G.F.C.I.	GROUND FAULT CIRCUIT INTERRUPT
G.F.I.	GROUND FAULT INTERRUPT
GALV.	GALVANIZED
GYP. BD.	GYPSUM BOARD
H.I.D.	HIGH INTENSITY DISCHARGE
HDCP, HC	HANDICAP
HDWD	HARDWOOD
HT.	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HWY.	HIGHWAY
HZ	HERTZ
I.E.	FOR EXAMPLE
I.G.	ISOLATED GROUND
INSUL.	INSULATION
JAN.	JANITOR
JT.	JOINT
LBF	POUNDS PER FOOT
LN.	LANE
LT.	LIGHT
MAT'L.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEP., MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MFGR., MANUF.	MANUFACTURER('S)
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
N	NORTH
N.T.S.	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER
O.D.	OVERFLOW DRAIN
O.H.	OVERHEAD
O.S.	OVERFLOW SCUPPER
OPEN'G.	OPENING
OPP.	OPPOSITE HAND
OTS	OPEN TO STRUCTURE
PKWY.	PARKWAY
PLYWD.	PLYWOOD
PREP.	PREPARE
PTD.	PAINTED
R	RISER, RADIUS
R.D.	ROOF DRAIN
R.O.W.	RIGHT-OF-WAY
R.T.U.	ROOF-TOP UNIT
RD.	ROAD
RCP	REFLECTED CEILING PLAN
REF.	REFERENCE
RM	ROOM
RR	RESTROOM
S	SOUTH
S.F.	SQUARE FEET
S.S.	STAINLESS STEEL
SCHED.	SCHEDULED
SHT.	SHEET
SIM.	SIMILAR
SPECS.	SPECIFICATIONS
ST.	STREET
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
T	TREAD
T.O.	TOP OF
T.S.	TUBE STEEL
TAS	TEXAS ACCESSIBILITY STANDARDS
TEL.	TELEPHONE
TOIL.	TOILET
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTS
VERT.	VERTICAL
W	WEST, WATTS
W/	WITH
WD.	WOOD

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DALLAS
INDEPENDENT SCHOOL DISTRICT

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ORG 207 DISD SAN JACINTO ELEMENTARY

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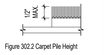
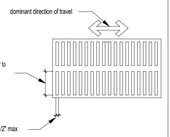
INDEX OF DRAWINGS

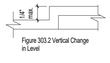
DRAWING RECORD	
DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD
08/16/24	95% CD
09/09/24	100% CD
09/18/24	BID SET

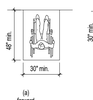
G0.02

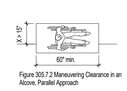
PROJECT NO.: 2023209

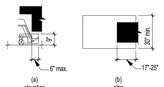


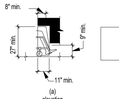


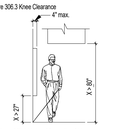


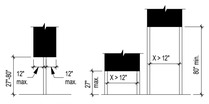


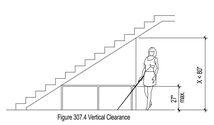


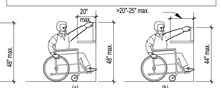


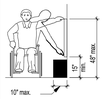


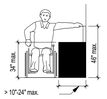


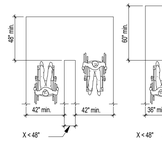


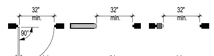


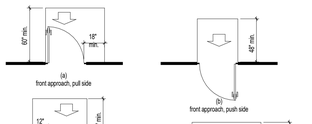


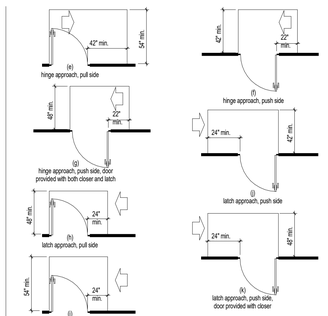


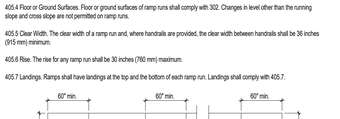


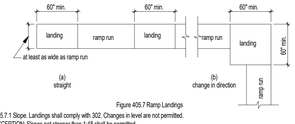


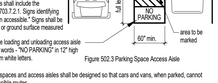


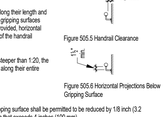


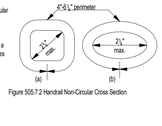


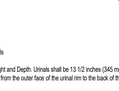


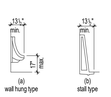












2012 Texas Accessibility Standards

CHAPTER 3: BUILDING BLOCKS

302 Floor or Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

303 Changes in Level

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

Figure 302.3 Elongated Openings in Floor or Ground Surfaces

304 Turning Space

Figure 303.2 Vertical Change in Level

Figure 303.3 Beveled Change in Level

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

304.4 Door Swing. Doors shall be permitted to swing into turning spaces.

305 Clear Floor or Ground Space

305.3 Size. The clear floor or ground space shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

Figure 304.3.2 T-Shaped Turning Space

Figure 305.3 Clear Floor or Ground Space

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.

305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

(a) forward (b) parallel

Figure 305.5 Position of Clear Floor or Ground Space

Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

306 Knee and Toe Clearance

306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

(a) elevation (b) plan

Figure 306.2 Toe Clearance

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

307 Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.
EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

(a) elevation (b) plan

Figure 306.3 Knee Clearance

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.
EXCEPTION: The sloping portions of handrails serving stairs and ramps shall not be required to comply with 307.3.

Figure 307.2 Limits of Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.
EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

Figure 307.3 Post-Mounted Protruding Objects

308 Reach Ranges

Figure 307.4 Vertical Clearance

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

Children's Reach Ranges		
Forward or Side Reach	High (maximum)	Low (minimum)
Ages 3 and 4	36 in (915 mm)	20 in (510 mm)
Ages 5 through 8	40 in (1015 mm)	18 in (455 mm)
Ages 9 through 12	44 in (1120 mm)	16 in (405 mm)

Figure 308.2.1 Unobstructed Forward Reach

Figure 308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.
EXCEPTIONS:
1. An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches (255 mm) maximum.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

Figure 308.3.1 Unobstructed Side Reach

Figure 308.3.2 Obstructed High Side Reach

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

309 Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

402 Accessible Routes

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

403 Walking Surfaces

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.
EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum compliance with 403.5.2 shall not be required.

Figure 403.5.1 Clear Width of an Accessible Route

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either: a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.

Figure 403.5.2 Clear Width at Turn

404 Doors, Doorways, and Gates

404.1 General. Doors, doorways, and gates that are part of an accessible route shall comply with 404.
EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.7, 404.2.8, 404.2.9, 404.3.2 and 404.3.4 through 404.3.7.

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).
EXCEPTIONS: 1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.
2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

(a) hinged door (b) sliding door (c) folding door

Figure 404.2.3 Clear Width of Doorways

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1. (as illustrated on Figures 404.2.4.1)

(a) front approach, pull side
(b) front approach, push side
(c) front approach, push side, door provided with both closer and latch
(d) hinge approach, pull side

Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

(e) hinge approach, pull side
(f) hinge approach, push side
(g) hinge approach, push side, door provided with both closer and latch
(h) latch approach, pull side
(i) latch approach, pull side, door provided with closer
(j) latch approach, push side
(k) latch approach, push side, door provided with closer

Figure 404.2.4.1 (cont.) Maneuvering Clearances at Manual Swinging Doors and Gates

404.2.4.2 Doorways without Doors or Gates, Sliding Doors, and Folding Doors. Doorways less than 36 inches (915 mm) wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 404.2.4.2. (as illustrated on Figure 404.2.4.2)

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

(a) front approach (b) side approach (c) pocket or hinge approach (d) stop or latch approach

Figure 404.2.4.2 Maneuvering Clearances at Doorways without Doors, Sliding Doors, Gates, and Folding Doors

(a) pull side (b) push side (c) push side, door provided with both closer and latch

Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.4.4 Floor or Ground Surface. Floor or ground surface within required maneuvering clearances shall comply with 302. Changes in level are not permitted.
EXCEPTIONS:
1. Slopes not steeper than 1:48 shall be permitted.
2. Changes in level at thresholds complying with 404.2.5 shall be permitted.

404.2.5 Thresholds. Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

Figure 404.2.6 Doors in Series and Gates in Series

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:
1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.
2. Sliding or folding doors: 5 pounds (22.2 N) maximum.
These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.
EXCEPTIONS:
1. Sliding doors shall not be required to comply with 404.2.10.
2. Tempered glass doors without stiles and having a bottom rail or shoe with the top leading edge tapered at 60 degrees minimum from the horizontal shall not be required to meet the 10 inch (255 mm) bottom smooth surface height requirement.

3. Doors and gates that do not extend to within 10 inches (255 mm) of the finish floor or ground shall not be required to comply with 404.2.10.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

405 Ramps

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.
EXCEPTION: In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

Table 405.2 Maximum Ramp Slope and Rise for Existing Sites, Buildings, and Facilities	
Slope Maximum Rise (A slope steeper than 1:8 is prohibited.)	
Steeper than 1:10 but not steeper than 1:8 3 inches (75 mm)	
Steeper than 1:12 but not steeper than 1:10 6 inches (150 mm)	

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.4 Floor or Ground Surfaces. Floor or ground surfaces of ramp runs shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

(a) straight (b) change in direction

Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall comply with 302. Changes in level are not permitted.
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.
EXCEPTIO1. Edge protection shall not be required on ramps that are not required to have handrails and have sides complying with 406.3.
2. Edge protection shall not be required on the sides of ramp landings serving an adjoining ramp run or stairway.
3. Edge protection shall not be required on the sides of ramp landings having a vertical drop-off of 1/2 inch (13 mm) maximum within 10 inches (255 mm) horizontally of the minimum landing area specified in 405.7.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

Figure 405.9.2 Curb or Barrier Edge Protection

405.10 Wet Conditions. Landings subject to wet conditions shall be designed to prevent the accumulation of water.

406 Curb Ramps

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.
EXCEPTION: In alterations, where there is no landing at the top of curb ramps, curb ramp flares shall be provided and shall not be steeper than 1:12.

Figure 406.3 Sides of Curb Ramps

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

Figure 406.4 Landings at the Top of Curb Ramps

Figure 406.6 Diagonal or Corner Type Curb Ramps

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

502 Parking Spaces

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.
EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve.

502.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

(a) car (b) van

Figure 502.2 Vehicle Parking Spaces

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2490 mm) minimum.

502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

Within the loading and unloading access aisle paint the words - "NO PARKING" in 12" high miniumum white letters.

Figure 502.3 Parking Space Access Aisle

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

503 Passenger Loading Zones

503.2 Vehicle Pull-Up Space. Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) wide minimum and 20 feet (6100 mm) long minimum.

503.3 Access Aisle. Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.

503.3.1 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) wide minimum.

503.3.2 Length. Access aisles shall extend the full length of the vehicle pull-up spaces they serve.

503.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

503.4 Floor and Ground Surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted.
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

Figure 503.3 Passenger Loading Zone Access Aisle

505 Handrails

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

(a) stairs (b) ramps (c) walking surfaces

Figure 505.4 Handrail Height

505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum.

Figure 505.5 Handrail Clearance

505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.
EXCEPTIONS:
1. Where handrails are provided along walking surfaces with slopes not steeper than 1:20, the bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards.

Figure 505.6 Horizontal Projections Below Gripping Surface

2. The distance between horizontal projections and the bottom of the gripping surface shall be permitted to be reduced by 1/8 inch (3.2 mm) for each 1/2 inch (13 mm) of additional handrail perimeter dimension that exceeds 4 inches (100 mm).

505.7 Cross Section. Handrail gripping surfaces shall have a cross section complying with 505.7.1 or 505.7.2.

505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

Figure 505.7.2 Handrail Non-Circular Cross Section

505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.
EXCEPTIONS:
1. Extensions shall not be required for continuous handrails at the inside turn of switchback or dogleg stairs and ramps.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

Figure 505.10.2 Top Handrail Extension at Stairs

Figure 505.10.3 Bottom Handrail Extension at Stairs

CHAPTER 6: PLUMBING ELEMENTS & FACILITIES

602 Drinking Fountains

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

Figure 604.3.1 Size of Clearance at Water Closets

Figure 602.5 Drinking Fountain Spout Location

604.3 Clearance. Clearances around water closets and in toilet compartments shall comply with 604.3.

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

(a) adult wall hung water closet (b) adult floor mounted water closet and children's water closet

Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.
EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

(a) elevation adult (b) elevation children (c) plan

Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

Figure 604.8.2 Ambulatory Accessible Toilet Compartment

605 Urinals

605.2 Height and Depth. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

(a) wall hung type (b) stall type

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

Figure 605.2 Height and Depth of Urinals

609 Grab Bars

609.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

Figure 609.2.2 Grab Bar Non-Circular Cross Section

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

(a) projecting objects (b) recessed object

Figure 609.3 Spacing of Grab Bars

EXCEPTION: The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1 1/2 inches (38 mm) minimum.

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

705 Detectable Warnings

705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

705.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

(a) elevation (enlarged) (b) plan

Figure 705.1 Size and Spacing of Truncated Domes

705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

General TAS Details and Mounting Heights

PARALLEL CURB RAMPS

ALLIANCE ARCHITECTS

30th ANNIVERSARY

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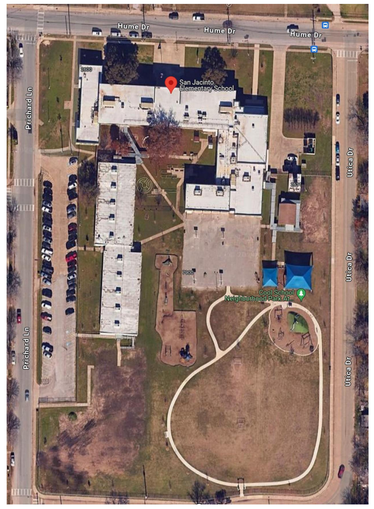
TEXAS ACCESSIBILITY STANDARDS (TAS) AND MOUNTING HEIGHTS

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD
08/16/24	95% CD
09/09/24	100% CD
09/18/24	BID SET

G0.03

PROJECT NO.: 2023209



IMPORTANT NOTE:

1. GC TO COORDINATE WITH THE ASSIGNED PROGRAM MANAGER AND DISD SAFETY MANAGER FOR FINAL LOCATION BEFORE MOBILIZATION. OWNER HAS THE AUTHORITY TO CHANGE THE LOCATION OF THE LAY-DOWN AREA INSIDE THE BOUDARIES OF THE SCHOOL BEFORE THE GC MOBILIZATION.

2. MANDATORY: GC TO SCHEDULE PRE-CONSTRUCTION MEETING BEFORE MOBILIZING TO THE SCHOOL AND APPROVFED LOCATION.

3. GC TO MAKE SURE THE STAGING AREA ARE AT A SAFETY DISTANCE FORM STUDENTS AND WORKERS AND NOT IMMEDIATLY ADJACENT TO STUDENTS.

4. GC RESPONSIBLE FOR ALL COST RELATED TO WORKER OFFSITE PARKING.

GENERAL NOTES FOR CONSTRUCTION PHASING CONTINUED

SPECIAL NOTES CONTINUED:

- THE GC TO INCLUDE IN YOUR SCHEDULE FOR MAINTENANCE ABOVE CEILING WALKS FOR ALL HVAC (PRIOR TO CEILINGS BEING COVERED)
- THE GC TO INCLUDE ALL SPECIAL PROJECT ASSIGNMENTS IN YOUR SCHEDULE (PRELIFTS, PREDIGS, PREUTILITY SHUTDOWNS, ETC)
- THE GC SUBMITTALS ARE DRIVEN TO CONCLUSION WITHIN 120 DAYS FROM NTP.
- THE COOLING SYSTEM IS WORKED ON IN THE WINTER AND THE HEATING SYSTEM IS WORKED ON IN THE SUMMER.THE GC WILL NEED TO PLAN ALL MAJOR LIFTING ACTIVITIES (I.E. AHU, RTU, CHILLER, BOILER REPLACEMENTS) DURING THE WEEKENDS, SUMMER BEAK, WINTER BREAK, SPRING BREAK, AND 3 DAY HOLIDAYS.
- ALL CONSTRUCTION TO BE PHASED BY WING. GC TO COORDINATE WITH ARCHITECT, PROGRAM MANAGER, DALLAS ISD PM AND SCHOOL PERSONEL.
- GC TO COORDINATE WITH PROGRAM MANAGER, DALLAS ISD PM AND SCHOOL PERSONEL WHEN DEMOLITION IN CLASSROOMS. REQUIRED TO HAVE MINIMAL IMPACT ON TEACHING ACTIVITIES.

WORK AREA "A"

RECEPTION STAFF WILL BE RELOCATED TO A TEMPORARY PARENT ENTRANCE IN WORK AREA "B". ALL MECHANICAL, ELECTRICAL , PLUMBING, LIFE SAFETY, AND SECURITY WORK IN AREA "A" SHALL MAINTAIN FUNCTIONALITY AT ALL TIMES. THE GC SHALL PROVIDE IN COORDINATIN WITH CAMPUS STAFF, DIRECTIONAL SIGNAGE TO SUPPORT CAMPUS OPREATIONS AND WAYFINDING.

ORDER OF CONSTRUCTION

A.1 - RELOCATE STAFF TO WORK AREA "B" ALONG WITH MOVEABLE FURNITURE EQUIPMENT & DESKS. THIS RELCOATION WILL BE REQUIRED BEFORE AREA "A" DEMOLITION & CONSTRUCTION STARTS.

A.2 - REMOVE EXISTING MILLWORK, CARPET, CHECK-IN WINDOW AND EXISTING DOOR TO CAMPUS CORRIDOR. ANY DAMAGE TO EXISTING WALLS TO REMAIN SHALL BE REPAIRED.

A.3 - INSTALL NEW SCHEDULED DOORS, MILLWORK, CARPET AND REPAINT ENTIRE RECEPTION AREA WITH DISD STANDARD FIELD WHITE PAINT COLOR.

WORK AREA "B"

RECEPTION STAFF WILL BE RELOCATED TO WORK AREA "B". GC SHALL INSTALL TEMPORARY DOOR BUZZER & CAMERA TO THIS AREA.

ORDER OF CONSTRUCTION

B.1 - INSTALL TEMPORARY DOOR BUZZER & CAMERA IN THIS AREA.

B.2 - RELOCATE STAFF ALONG WITH MOVEABLE FURNITURE EQUIPMENT & DESKS FROM AREA "A".

WORK AREA "C"

EXISTING SPRAY FOAM ROOF TO BE SCARIFIED AND NEW LAYERS OF SPRAY FOAM SHALL BE INSTALLED. SCARIFYING EXISTING ROOF AND REFOAM ABOUT A WEEK ADD ANOTHER FEW DAYS FOR METAL COPING INSTALLATION.

ORDER OF CONSTRUCTION

C.1 - REMOVE EXISTING PARAPET COPING FROM ENTIRE PERIMETER OF EXISTING ROOF.

C.2 - SCARIFY EXISTING FOAM ROOF PER REVIEW OF CORES TAKEN OF EXISTING ROOF DOWN TO REQUIRED DEPTH FOR REINSTALLATION.

C.3 - COORDINATE WITH MEP DRAWINGS AND PROTECT EXISTING UTILITY OPENINGS THAT WILL BE REQUIRED TO BE REPLACED WITH NEW LINES.

C.4 - COORDINATE WITH MEP DRAWINGS FOR SCHEDULED RTU REMOVAL AND REPLACEMENT, PROTECT OPENINGS AS REQUIRED.

WORK AREA "D"

EXISTING ALUMINUM FRAME & ALUMINUM GLASS DOOR SHALL BE REMOVED IN ITS ENTIRETY AND REPLACED WITH NEW ALUMINUM FRAME & ALUMINUM GLASS DOOR. ALL NEW DOOR HARDWARE SHALL BE PROVIDED TO SUPPORT NEW AI PHONE COMMUNICATIONS AND NEW CARD READER.

ORDER OF CONSTRUCTION

D.1 - REMOVE EXISTING DOOR & FRAME, CLEAN & PREP TO RECEIVE NEW DOOR AND FRAME. NEW DOOR SHALL BE PREPPED TO RECIEVE ELECTRIFIED DOOR HARDWARE FOR SECURING ACCESS IN AND OUT OF MODULAR BUILDING.

D.2 - INSTALL INFRASTRUCTURE TO SUPPORT NEW ELECTRIFIED DOOR & CARD CARD READER.

D.3 - INSTALL NEW DOOR & FRAME, COORDINATE ALL REQUIRED ELECTRICAL FOR FULL SECURE FUNCTIONING DOOR & CARD READER.

WORK AREA "E"

EXISTING HOLLOW METAL DOOR TO BE REMOVED FROM WITHIN EXISTING FRAME, REMOVE WITH CARE AS TO NOT DAMAGE EXISTING FRAME. PROVIDE NEW H.M. DOOR, PREPARE NEW DOOR TO RECEIVE HARDWARE TO SUPPORT CARD READER ACCESS.

ORDER OF CONSTRUCTION

E.1 - REMOVE EXISTING DOOR WITH CARE TO NOT DAMAGE EXISTING FRAME.

E.2 - INSTALL INFRASTRUCTURE TO SUPPORT NEW ELECTRIFIED DOOR FOR CARD CARD READER SECURE ACCESS.

WORK AREA "F"

EXISTING HOLLOW METAL DOOR TO BE REMOVED FROM WITHIN EXISTING FRAME, REMOVE WITH CARE AS TO NOT DAMAGE EXISTING FRAME. PROVIDE NEW H.M. DOOR, PREPARE NEW DOOR TO RECEIVE HARDWARE TO SUPPORT CARD READER ACCESS.

ORDER OF CONSTRUCTION

F.1 - REMOVE EXISTING DOOR WITH CARE TO NOT DAMAGE EXISTING FRAME.

F.2 - INSTALL INFRASTRUCTURE TO SUPPORT NEW ELECTRIFIED DOOR FOR CARD CARD READER SECURE ACCESS.

SCHOOL AND WORKING HOURS

NORMAL SCHOOL/CLASSROOM HOURS, PLEASE REFER TO DIVISION 1.

NORMAL AFTER SCHOOL WORKING HOURS(IF ALLOWED BY) REFER TO DIV 1 FOR MORE DETAILED INFROMATION.

NON-SCHOOL WORKING HOURS (WEEKENDS, HOLIDAYS, BREAKS, SUMMER) TO BE 7:00AM TO 10:00AM. (CONFIRM WITH CITY OF DALLAS IF WORKING HOURS CAN BE EXTENDED TO 12:00AM OR BEYOND).

SPECIAL NOTES

NO WORK SHALL BE ALLOWED TO BE PERFORMED DURING TESTING WEEKS

PLEASE CONSULT WITH PROGRAM MANAGER AND SCHOOL STAF FOR SPECIFIC TESTING DATES. ALSO, REFER TO DIV 1 FOR TESTING DATES ALLOTED BY DISD.

COORDINATE ALL WORK AND SCHOOL ACCESS WITH PRINCIPAL. (OR AGREED TO SCHOOL CONTACT PERSON) AND PROGRAM MANAGER.

NO OVERHEAD OR ROOF WORK TO BE PERFORMED OVER OCCUPIED AREAS OR ROOMS.

THIS LIST IS NOT A COMPLETE AND FULL DESCRIPTION OF THE SCOPE OF WORK TO BE PERFORMED. PLEASE REFER TO THE CONSTRUCTION DOCUMENTS FOR THE FULL SCOPE OF WORK DESCRIPTION.

NO TRENCHING OR EXCAVATION ALLOWED DURING SCHOOL HOURS.

REFER TO PROJECT MANUAL, DIVISION 01 FOR ADDITIONAL REQUIREMENTS.

IF SCOPE OF WORK INCLUDES WORK ASSOCIATED WITH THE FIRE SPRINKLER, FIRE ALARM AND/OR SECURITY SYSTEMS - EXISTING SYSTEM IS TO BE MAINTAINED AND OPERATIONAL UNTIL NEW SYSTEM IS FULLY OPERATIONAL, TESTED AND ACCEPTED.

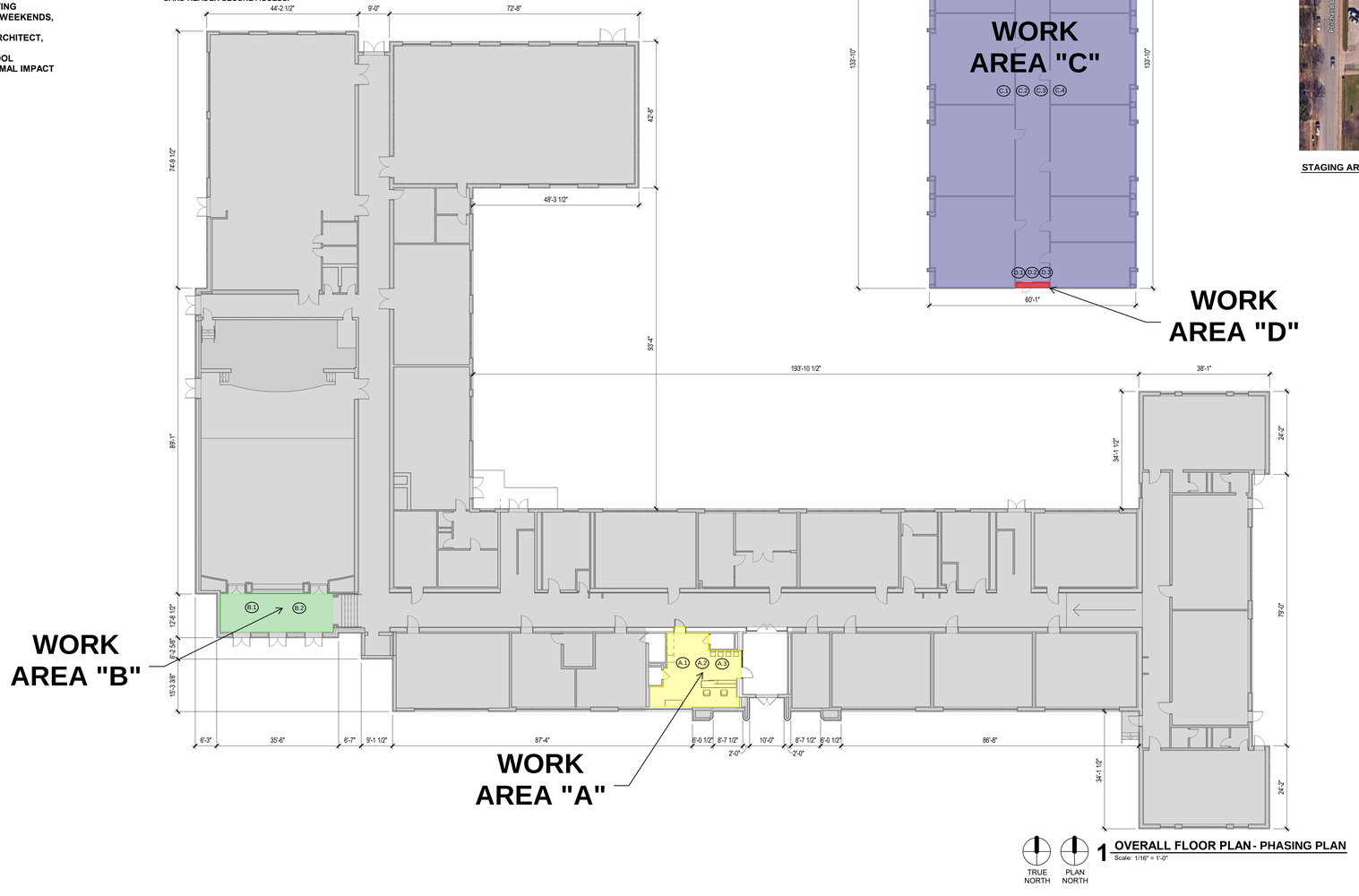
GENERAL CONTRACTOR IS TO AUDIT ALL EXISTING SYSTEMS BEFORE THE WORK IS STARTED TO VERIFY WORKING AND/OR NON-WORKING COMPONENTS. THE SYSTEMS INCLUDED ARE FIRE SPRINKLER, FRIRE ALARM, PA, SECURITY SYSTEM SENSORS, HVAC CONTROLS, ETC. CONTRACTOR IS TO AUDIT THESE SYSTEMS AND PROVIDE A WRITTEN REPORT TO THE PMF PM OR WHAT WAS FOUND FOR EACH SYSTEM AND PRECONSTRUCTION PHOTOS OF THESE SYSTEMS PER THE PROJECT SPECIFICATION SECTION 013233 - PHOTOGRAPHIC DOCUMENTATION REQUIREMENTS. IF A WRITTEN REPORT IS NOT FURNISHED BEFORE THE CONTRACTOR MOBILIZES ON SITE AND/OR 10 BUSINESS DAYS FROM RECEIVING A NOTICE TO PROCEED, THE SYSTEM(S) WILL BE CONSIDERED FULLY FUNCTIONAL AND THE CONTRACTOR AND THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THEM AS SUCH THROUG THE DURATION OF THE PROJECT, AND RETURN THEM FULLY OPERATIONAL CONDITION AT THE END OF THE PROJECT. (FINAL COMPLETION) AT NO ADDITIONAL COST TO THE OWNER.

GC TO INCLUDE ALL COST RELATED TO SAFETY IN THE CONSTRUCTION COST, NOT A SEPARATE BUDGET OR ADD SERVICE. (FOR EXAMPLE, RELOCATING FENCING, RELOCATING PARTITIONS, HARD BARRIERS, FENCING WITH SCREENING, ETC.

GC TO PROVIDE AND INSTALL HARD BARRIERS AND FENCE WITH SCREENING TO SEPARATE WORK FROM STUDENTS.

EQUIPMENT/PRODUCT LEAD TIMES

ALUMINUM STOREFRONTS - 5-6 WEEKS.
WOOD DOORS - 6-8 WEEKS.
HOLLOW METAL FRAMES - 2-3 WEEKS
MARQUEE SIGN - 8 WEEKS
RTU - 16 WEEKS
INTERIOR LIGHTS - 4-5 WEEKS
EXTERIOR POLE LIGHTS - 4-5 WEEKS

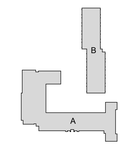


TRUE NORTH / PLAN NORTH

1 OVERALL FLOOR PLAN - PHASING PLAN
Scale: 1/16" = 1'-0"

STAGING AREA AND CONSTRUCTION SIGN LOCATION

KEY MAP



ALLIANCE ARCHITECTS
30th ANNIVERSARY
1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
(972) 233-0400 Alliancearch.com

REGISTERED ARCHITECT — STATE OF TEXAS

09/18/2024

DALLAS ISD BOND2020 — OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

ORG 207 DISD SAN JACINTO ELEMENTARY

7900 Hume Dr, Dallas, TX 75227

OVERALL FLOOR PLAN - PHASING PLAN

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD
08/16/24	95% CD
09/09/24	100% CD
09/18/24	BID SET

PH.01

PROJECT NO.: 2023209

Site Plan General Notes:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS. FOR ANY WORK NOT GOVERNED BY CITY DETAILS. THE LATEST EDITION OF THE STANDARDS AND SPECIFICATIONS, NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SHALL APPLY.
2. THE CONTRACTOR MUST BE FAMILIAR WITH OWNER & CITY CONSTRUCTION STANDARDS AND OTHER PROCEDURES PRIOR TO BIDDING AND CONSTRUCTION. IGNORANCE OF CONSTRUCTION SPECIFICATIONS SHALL NOT BE A BASIS FOR CHANGE ORDERS, WORK DELAYS, OR ADDITIONAL COMPENSATION.
3. ALL MATERIAL REQUIRED TO COMPLETE THE WORK AS SHOWN OR IMPLIED IN THE CONSTRUCTION PLANS AND AS SPECIFIED IN THE CONTRACT DOCUMENTS THAT ARE NOT LISTED AS A PAY ITEM IN THE PROPOSAL SHALL BE CONSIDERED SUBSIDIARY.
4. THE LOCATION, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED FROM FIELD MARKINGS, PHYSICAL APPURTENANCES AND UTILITY COMPANY RECORDS AND ARE CONSIDERED APPROXIMATE. THE ENGINEER DOES NOT CERTIFY THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS, SIZES AND DEPTHS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION BY CONTACTING TEXAS811 AND RELEVANT UTILITY COMPANIES 48 HOURS PRIOR TO LOCATING EXISTING UTILITIES OR CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL PROTECT ALL ADJACENT ON & OFF-SITE PAVING, UTILITIES, TREES AND OTHER EXISTING STRUCTURES FROM DAMAGE PRIOR TO & DURING CONSTRUCTION. ANY DAMAGE THAT OCCURS FROM CONSTRUCTION OPERATIONS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAWS CONCERNING EXCAVATION, EMISSIONS, TRENCHING, SHORING, AND SITE SAFETY.
7. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE TO THE ENGINEER PRIOR TO BEGINNING WORK.
8. THE CONTRACTOR SHALL PROTECT ALL PAVEMENT INCLUDING SIDEWALKS THAT ARE OUTSIDE THE LIMITS OF DISTURBANCE FROM DAMAGE ESPECIALLY AT CONSTRUCTION ENTRANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGED PAVEMENT.
9. THE CONTRACTOR MAY REMOVE ALL FENCING WITHIN THE LIMITS OF DISTURBANCE THAT INTERFERE WITH CONSTRUCTION OPERATIONS, EXCEPT IN AREAS WHERE LIVESTOCK IS PRESENT. WHERE TEMPORARY FENCING IS REQUIRED, IT SHALL BE OF SUFFICIENT DESIGN TO KEEP LIVESTOCK PENNED. ANY LOOSE LIVESTOCK THAT RESULT FROM INADEQUATE FENCING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
10. POSITIVE DRAINAGE MUST BE MAINTAINED FOR ALL DRAINAGE SWALES, CULVERTS AND CREEKS INCLUDING INTERMITTENT STREAMS AFFECTED BY CONSTRUCTION OPERATIONS. ANY WORK NECESSARY TO DAM OR DIVERT EXISTING DRAINAGE WAYS TO COMMENCE CONSTRUCTION SHALL BE CONSIDERED SUBSIDIARY.
11. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED TO INCLUDE BUT NOT BE LIMITED TO ROCK, RUBBLE, DEBRIS, TRASH, ETC. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE. SPOILS MAY BE DISPOSED OF ON-SITE ONLY WITH PRIOR APPROVAL FROM THE ENGINEER AND ONLY IN LOCATIONS APPROVED BY THE ENGINEER.
12. AT SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIAL, FORM-WORK, TRASH, EQUIPMENT, OR ANY OTHER SUPERFLUOUS OR WASTE MATERIAL FROM THE SITE, INCLUDING EROSION CONTROL DEVICES (SEE EROSION CONTROL AND SOIL MANAGEMENT NOTES).
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK INVOLVING FRANCHISE UTILITIES WITH UTILITY OWNERS.
14. IF A TRAFFIC CONTROL PLAN HAS NOT BEEN PROVIDED BY THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL INCLUDING THE USE OF ALL TRAFFIC CONTROL DEVICES USED TO WARN MOTORISTS OF THE CONSTRUCTION ACTIVITY. ALL TRAFFIC CONTROL MUST CONFORM TO THE LATEST EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AS PUBLISHED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.
15. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO AND THROUGHOUT CONSTRUCTION.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE CONSTRUCTION RECORDS FOR THE OWNER/CITY'S USE. THE CONTRACTOR SHALL PROVIDE THE CITY & OWNER CLEAN AND ACCURATE FULL SIZE REPRODUCIBLE RECORD DRAWINGS WHICH CLEARLY DESCRIBE ALL CONSTRUCTION AND ANY DEVIATIONS FROM THE PLANS.
17. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS THAT ARE APPROVED BY THE CITY AND ENGINEER.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION SURVEYING, QUALITY CONTROL, AND MATERIALS TESTING.
19. ALL EFFORTS SHALL BE MADE TO AVOID DAMAGE TO EXISTING TREES THAT ARE TO REMAIN. TREES SHALL BE TRIMMED AND PAINTED ONLY IF NECESSARY FOR THE SAFE MANEUVERING OF CONSTRUCTION EQUIPMENT. CONTRACTOR SHALL REQUEST APPROVAL FROM THE OWNER FOR REMOVAL OF ANY TREES. WHEN EXCAVATING AROUND A TREE, THE ROOTS SHALL BE CLEAN CUT PRIOR TO ANY EXCAVATION WORK. DO NOT SNAG AND TEAR TREE ROOTS.
20. THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND SUBMITTALS REQUIRED TO BE SUBMITTED BY THE CONTRACT SPECIFICATIONS. ANY WORK PERFORMED OR MATERIALS USED THAT ARE REQUIRED TO BE SUBMITTED BUT HAVE NOT BEEN REVIEWED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE SHALL NOT BE PAID FOR OR SHALL BE PAID FOR AT A REDUCED RATE. ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE PROOFREAD AND REVIEWED BY THE GENERAL CONTRACTOR FOR APPROVAL PRIOR TO SUBMITTAL TO THE ENGINEER. SUBCONTRACTOR / GENERAL CONTRACTOR SHALL CLEARLY INDICATE, MARK, HIGHLIGHT, AND PROPERLY CLARIFY PRODUCTS TO BE CONSIDERED FOR APPROVAL. SUBMITTALS NOT PROOFREAD OR REVIEWED OR CLARIFIED PROPERLY SHALL BE RETURNED UNREVIEWED. CONTRACTOR SHALL RESUBMIT SHOP DRAWINGS AND ALLOW FOR SUITABLE REVIEW TIME. SUITABLE REVIEW TIME SHALL BE NO MORE TEN (10) WORKING DAYS.

Site Demolition Plan Notes:

1. EXISTING TOPOGRAPHIC SURVEY AND LOCATION OF PHYSICAL FEATURES WERE OBTAINED FROM A TOPOGRAPHIC SURVEY PERFORMED BY **DAL-TECH ENGINEERING, INC.** DATED **SEPTEMBER 2009**.
2. NO DEMOLITION ACTIVITIES SHALL COMMENCE UNTIL ALL PERMITS ARE OBTAINED AND PERIMETER EROSION CONTROL MEASURES ARE IN PLACE.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE AREA OF CONSTRUCTION.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. WITHIN THE AREA OF CONSTRUCTION.
5. EXISTING SANITARY SEWER AND WATER UTILITY LINES ARE TO REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR TO MAKE PROVISIONS TO KEEP THESE UTILITIES IN SERVICE. ALL PROPOSED SHUT DOWNS OF UTILITIES MUST BE COORDINATED WITH THE OWNER.
6. ALL TRAFFIC CONTROL MEASURES, BARRICADES AND PROJECT SIGNS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF TEXAS DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE LOCAL GOVERNING AGENCY REQUIREMENTS.
7. PROVIDE EROSION AND SEDIMENTATION CONTROLS AS SHOWN ON THE DRAWINGS AND MAINTAIN FOR THE DURATION OF THE PROJECT, PROVIDE ROUTINE MAINTENANCE AS REQUIRED BY THE SWPPP PLAN TO MAINTAIN THE INTEGRITY OF CONTROLS AND PROTECTION MEASURES AND REMOVE ANY ACCUMULATIONS OF MUD, SILT AND DEBRIS, WHICH WOULD JEOPARDIZE THE INTEGRITY OF THE CONTROL MEASURES. REFER TO DRAWINGS FOR DETAILS
8. CONTRACTOR SHALL EXERCISE CARE DURING OPERATIONS TO CONFINE DUST TO THE IMMEDIATE WORK AREA AND SHALL EMPLOY DUST CONTROL MEASURES TO ENSURE ADEQUATE DUST CONTROL THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS.
9. EXPOSED SUBGRADE BENEATH PAVED AREAS SHALL BE PROOF ROLLED TO DETECT WEAK SOIL SUPPORT AREAS. THESE AREAS WILL BE REMOVED AND REPLACED WITH SITE EXCAVATED MATERIALS OR IMPORTED MATERIALS HAVING THE SAME PROPERTIES AS SITE MATERIALS.
10. THE CONTRACTOR SHALL NOT DAMAGE ANY FENCES, DRIVES, PAVEMENT, UTILITIES OR OTHER EXISTING FACILITIES INTENDED TO REMAIN. DAMAGE TO ADJOINING PROPERTY OUTSIDE THE LIMITS OF DISTURBANCE OR OTHER ITEMS INTENDED TO REMAIN SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING AGENCIES REGARDING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
12. THE CONTRACTOR SHALL REMOVE AND DISPOSAL OF ANY ON-SITE TRASH, DEBRIS, OR DEMOLITION MATERIALS. DISPOSAL OF ALL DEMOLITION MATERIALS OR PRE-EXISTING ON-SITE TRASH AND DEBRIS SHALL NOT BE ITEMIZED AND PAID FOR AS SEPARATE ITEMS BUT SHALL BE SUBSIDIARY TO THE CONTRACT PRICE.
13. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, BENCHMARKS, CONTROL POINTS, ETC., AND SHALL HAVE, AT HIS EXPENSE, ALL CORNER MONUMENTS REPLACED WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DISCONNECTION OF ALL UTILITIES SERVING THE EXISTING SITE WITH THE APPROPRIATE UTILITY COMPANY, AND SHALL OBTAIN APPROVAL FROM SAME TO COMMENCE DEMOLITION ACTIVITIES.
15. THE CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY PIPING, CONDUIT, AND CABLES, REGARDLESS OF DEPTH, IN THE AREA OF THE PROPOSED BUILDING(S) FOUNDATIONS. (UNLESS OTHERWISE NOTED)
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLUGGING, CAPPING, OR OTHERWISE TERMINATING UTILITY SERVICE LINES AT THE PROPERTY LINE; OR AT THE UTILITY MAIN AS REQUIRED BY THE UTILITY OWNER.
17. REFER TO LANDSCAPE DRAWINGS FOR TREE DEMOLITION AND PROTECTION.
18. REFER TO DEMOLITION ITEMS WITHIN OTHER DISCIPLINES' DOCUMENTS FOR COORDINATION NOTES.

Paving Plan Notes:

1. UNLESS OTHERWISE NOTED, REFER TO SPECIFICATION DETAILS FOR SUBGRADE COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
2. REFER TO THE MOST RECENT GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
3. INSTALLATION AND PLACEMENT OF IRRIGATION SLEEVES AND UTILITY CONDUITS SHALL BE IN ACCORDANCE TO THE ARCHITECT'S LANDSCAPE PLANS AND/OR MEP PLANS. NEW IRRIGATION SLEEVES SHOWN HEREON ARE FOR REFERENCE ONLY AND SHOULD BE CONSIDERED APPROXIMATE. (REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATIONS.)
4. ALL PARKING STRIPING SHALL BE 4" WIDE UNLESS OTHERWISE NOTED.
5. INSTALL ACCESSIBLE PARKING STALLS, AISLES, SYMBOLS, SIGNAGE AND WHEELSTOPS IN ACCORDANCE WITH ADA/TAS STANDARDS. STRIPING WILL BE COLORED PER TAS APPROVED COLOR PAINT
6. SIDEWALKS SHALL HAVE A RUNNING SLOPE NOT GREATER THAN 5% AND A CROSS SLOPE NOT GREATER THAN 2%, UNLESS OTHERWISE NOTED.
7. SAWED JOINTS SHALL BE SPACED AT INTERVALS OF 15 FEET MAXIMUM AND AT ALL RADIUS RETURNS. SAWED JOINTS SHALL BE PERPENDICULAR TO ALL CURVES. JOINTS SHALL BE SAWED WITHIN 12 HOURS AFTER CONCRETE IS POURED.
8. SAWED JOINTS SHALL MATCH THE EXISTING PAVEMENT JOINT PATTERN WHERE NEW PAVEMENT IS CONSTRUCTED ADJACENT TO EXISTING CONCRETE PAVEMENT.
9. ALL MANHOLES, INLETS, LIGHT BASES, AND OTHER STRUCTURES SHALL BE ISOLATED FROM THE NEW PAVEMENT WITH PREFORMED ASPHALTIC EXPANSION MATERIAL.
10. ADJUST EXISTING TOP OF MANHOLE RIMS AND EXISTING WATERLINE VALVE BOXES TO FINISHED GRADE ELEVATIONS.
11. FOR PAVING PATTERNS, FINISHES AND MATERIALS REFER TO ARCHITECTURAL OR LANDSCAPE DRAWINGS.
12. NEW IRRIGATION SLEEVES SHOWN HEREON ARE FOR REFERENCE ONLY AND SHOULD BE CONSIDERED APPROXIMATE. REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATIONS.
13. CARE SHALL BE TAKEN NOT TO PLACE CONCRETE DURING INCLEMENT WEATHER. CONCRETE AGGREGATE THAT HAS BEEN EXPOSED DUE TO RAINFALL BEFORE THE CONCRETE HAS SET-UP SHALL NOT BE ACCEPTED AND MUST BE REPLACED.
14. EXPOSED SUBGRADE BENEATH PAVED AREAS SHALL BE PROOF ROLLED TO DETECT WEAK SOIL SUPPORT AREAS. WEAK AREAS WILL BE REMOVED AND REPLACED WITH SITE EXCAVATED MATERIALS OR IMPORTED MATERIALS HAVING THE SAME PROPERTIES AS SITE MATERIALS.

Grading Plan Notes:

1. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE DISTURBED AREAS OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
2. NO ABRUPT CHANGE OF GRADE SHALL OCCUR IN THE DRIVEWAYS, PARKING AREAS OR SIDEWALKS.
3. UTILITIES SHOWN ON THE PLANS ARE FROM THE BEST INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, TYPE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM THE PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLAN OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.
4. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
5. ALL CONSTRUCTION AREAS WITHIN THE SITE SHALL BE STRIPPED OF VEGETATION AND LOOSE TOPSOIL. ANY POCKETS OF DEBRIS ENCOUNTERED SHOULD ALSO BE REMOVED.
6. REFER TO THE MOST RECENT GEOTECHNICAL REPORT FOR FILL COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
7. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING OFFSITE AND ONTO ADJACENT PROPERTY OR CROSSING ADJACENT STREETS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS THAT WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS.
8. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. WITHIN THE AREA OF CONSTRUCTION. THEY MUST BE ADJUSTED TO PROPERTY LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PALCEMENT OF PAVING AND GRADING AT NO ADDITIONAL COST TO THE OWNER.
9. SIDEWALKS SHALL HAVE A RUNNING SLOPE NOT GREATER THAN 5% AND A CROSS SLOPE NOT GREATER THAN 2%, UNLESS OTHERWISE NOTED.

Dimension Control Notes:

1. EXISTING TOPOGRAPHIC SURVEY AND LOCATION OF PHYSICAL FEATURES, BENCHMARKS, MONUMENTS, ETC. WERE OBTAINED FROM A TOPOGRAPHIC SURVEY PERFORMED BY **DAL-TECH ENGINEERING, INC.** DATED **SEPTEMBER 2009**.
2. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND MAINTAINING ALL SIGNS, BARRICADES, AND LIGHTING OR WARNING DEVICE(S) USED/REQUIRED WITH THIS WORK.
4. ALL UNLABELED CURB RADII SHALL BE 2.0 FEET TYPICAL.
5. ALL DIMENSIONS ARE FROM EDGE OF PAVEMENT OR FACE OF CURB UNLESS OTHERWISE NOTED.
6. ALL BUILDING DIMENSIONS ARE TO FACE OF BUILDING. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSION INFORMATION.
7. REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS AND DIMENSIONS OF LANDSCAPE HARDSCAPE AREAS.

Erosion Control Plan Notes:

1. THE CONTRACTOR SHALL COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS REGARDING STORM WATER DISCHARGE AND EROSION & SEDIMENT CONTROL.
2. FOR ALL EROSION CONTROL IN THE PUBLIC RIGHT-OF-WAY, CONTRACTOR SHALL MAKE REFERENCE TO THE CITY OF **DALLAS** DETAILS AND/OR CONSTRUCTION MANUAL FOR ACCEPTABLE CONSTRUCTION CONTROL GUIDELINES AND DETAILS NOT PROVIDED.
3. EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE BEGINNING SOILS DISTURBING ACTIVITIES.
4. CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL AREAS ON SITE THAT MAY NEED TO BE DISTURBED FOR LAY DOWN AREA, STAGING, ETC...

ALLIANCE ARCHITECTS
30 ANNIVERSARY
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STATE OF TEXAS
OVIDIU M. SUPOS
111707
LICENSED PROFESSIONAL ENGINEER

09.19.2024

DALLAS ISD
BOND2020
OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

ORG 207 DISD SAN JACINTO ELEMENTARY

7900 Hunne Dr, Dallas, TX 75227

GENERAL NOTES

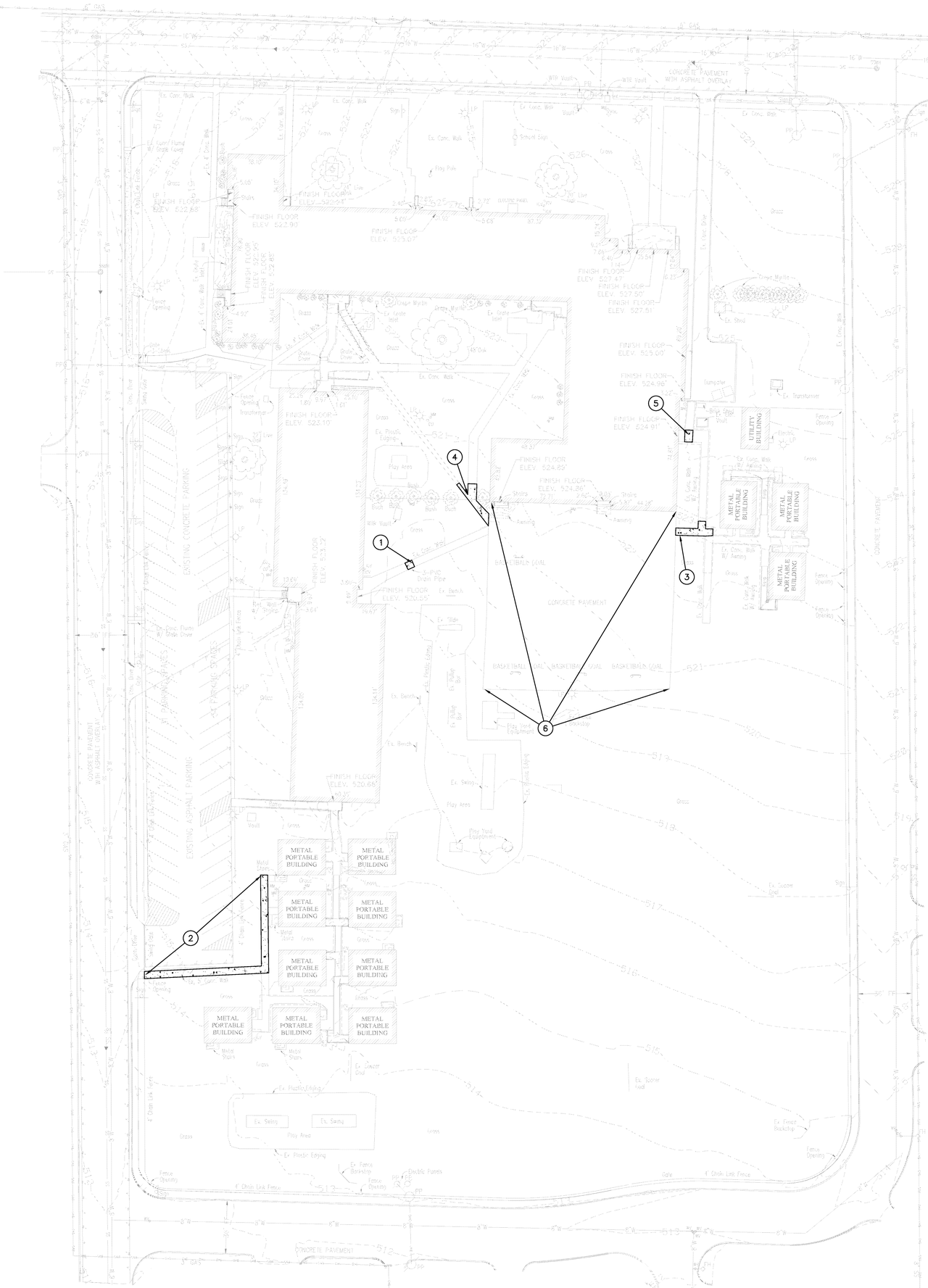
DRAWING RECORD

DATE	DESCRIPTION

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.393.7340
PROJECT NO: 424-00067 TBPE F-RM 7985

C1.00

PROJECT NO.: 2023209



Legend

▨	EXISTING BUILDING
▩	CONCRETE SIDEWALK TO BE REMOVED
-------	PROPERTY BOUNDARY

Keynotes

① REMOVE AND REPLACE DAMAGED SIDEWALK. REMOVE PVC DRAIN PIPE

② REMOVE MISCELLANEOUS SIDEWALK FROM PREVIOUS PORTABLES UP TO THE EXISTING FENCE. NO WORK IS TO TAKE PLACE WITHIN THE PUBLIC ROW.

③ REMOVE AND REPLACE DAMAGED SIDEWALK

④ REMOVE AND REPLACE DAMAGED SIDEWALK

⑤ REMOVE AND REPLACE DAMAGED SIDEWALK

⑥ ALTERNATE: MILL TOP LAYER OF PAVEMENT, SEAL CRACKS, AND OVERLAY EXISTING PAVED AREA

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4240087
TBPE FIRM 7986

ALLIANCE ARCHITECTS
30th ANNIVERSARY
1600 N. Collins Blvd., Suite 1000
Richardson, Texas 75080
(972) 233-0400
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INDEPENDENT SCHOOL DISTRICT
Jacobs

ORG 207 DISD SAN JACINTO ELEMENTARY

7900 Hume Dr. Dallas, TX 75227

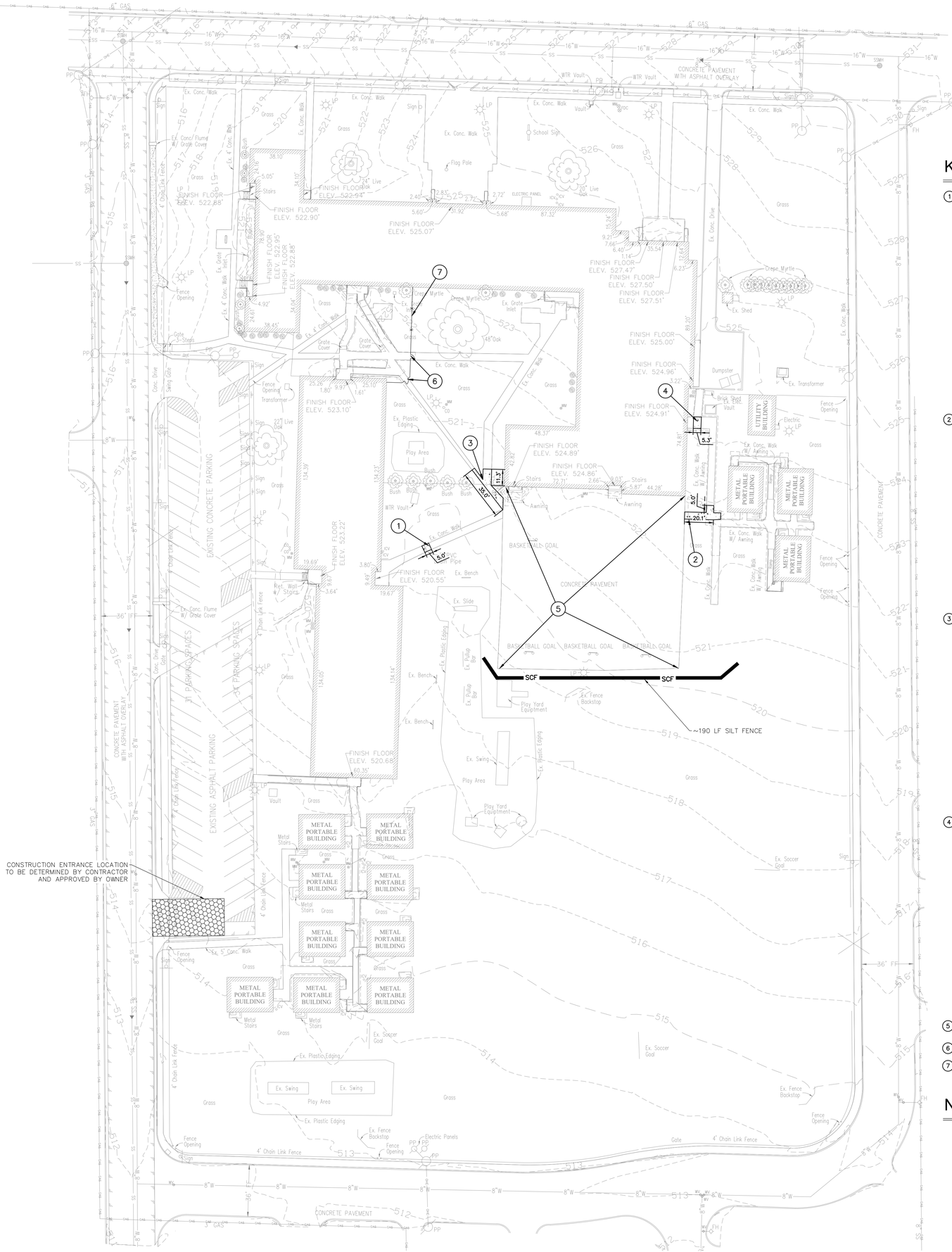
EXISTING CONDITIONS & DEMOLITION PLAN

DRAWING RECORD

DATE	DESCRIPTION

C2.00

PROJECT NO.: 2023209



CONSTRUCTION ENTRANCE LOCATION TO BE DETERMINED BY CONTRACTOR AND APPROVED BY OWNER

Legend

▨	EXISTING BUILDING
▩	4" CONCRETE SIDEWALK
— · — · —	PROPERTY BOUNDARY
—×—	NEW FENCE
— SCF —	SILT FENCE **(SEE DETAIL 03/C4.00)**
▩	CONSTRUCTION ENTRANCE **(SEE DETAIL 04/C4.00)**

Keynotes

① REMOVE AND REPLACE DAMAGED SIDEWALK

② REMOVE AND REPLACE DAMAGED SIDEWALK

③ REMOVE AND REPLACE DAMAGED SIDEWALK

④ REMOVE AND REPLACE DAMAGED SIDEWALK

⑤ ALTERNATE: MILL TOP LAYER OF PAVEMENT, SEAL CRACKS, AND OVERLAY EXISTING PAVED AREA

⑥ NEW GATE (REF ARCH)

⑦ NEW FENCE (REF ARCH)

Notes

1. DIMENSIONS SHOWN FOR REFERENCE. REPLACE SIDEWALK TO NEAREST JOINT.
2. SIDEWALKS TO BE REPLACED AT EXISTING ELEVATION.

N

GRAPHIC SCALE
0 30 60
(IN FEET)
1 inch = 30 ft.

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SITE PLAN

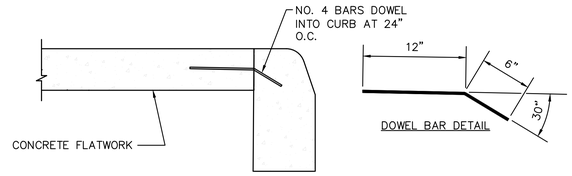
DRAWING RECORD

DATE	DESCRIPTION

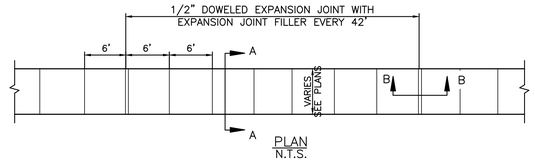
shaping the built environment
JQ Infrastructure
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4240087 TBPE FIRM 7986

C3.00

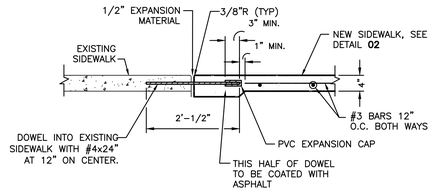
PROJECT NO.: 2023209



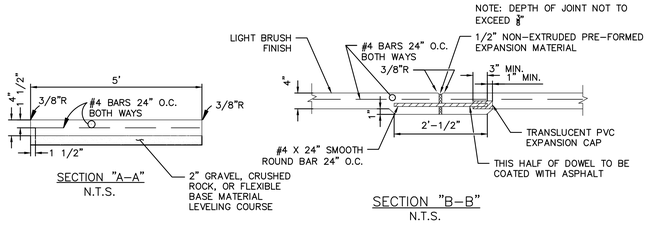
CONCRETE CURB/CONCRETE FLATWORK JUNCTION
N.T.S.



PLAN
N.T.S.

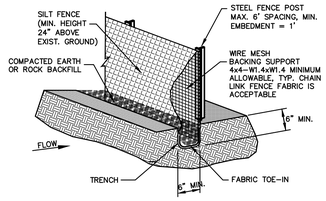


01 TO NEW SIDEWALK
TYPICAL EXISTING SIDEWALK
N.T.S.



NOTE:
1. CROSS SLOPE OF SIDEWALK SHALL BE 1:50 MAXIMUM.
2. SEE PLANS FOR WIDTH.
3. SIDEWALK SHALL BE 4" 3000 PSI CONCRETE UNLESS OTHERWISE SPECIFIED BY OWNER.
4. ALL HONEYCOMB IN BACK OF CURB TO BE TROWEL-PLASTERED BEFORE POURING SIDEWALK.
5. LUG MAY BE FORMED BY SHAPING SUBGRADE TO APPROXIMATE DIMENSIONS SHOWN.
6. DOWEL INTO EXISTING SIDEWALK WITH NO.4 X 24" ON CENTER.
7. REFERENCE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
8. SIDEWALKS LESS THAN 5 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200 FEET.
9. ALL JOINTS TO BE SEALED.

02 REINFORCE CONCRETE SIDEWALK
N.T.S.

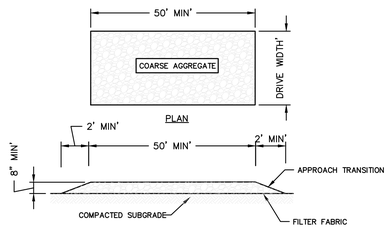


ISOMETRIC PLAN VIEW

SILT FENCE GENERAL NOTES

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

03 SILT FENCE INSTALLATION
N.T.S.



PROFILE

CONSTRUCTION ENTRANCE NOTES

1. UNTIL PERMANENT PAVEMENT HAS BEEN PLACED WITHIN DESIGNATED CONSTRUCTION ENTRANCE AREA, CONTRACTOR SHALL PROVIDE AGGREGATE BASE AS PER THIS DRAWING.
2. STONE SIZE: 3" TO 5" OPEN GRADED ROCK; LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50 FEET IN LENGTH.
3. FILTER FABRIC INSTALLED PRIOR TO INSTALLATION OF ROCK, ON TOP OF EXISTING SOIL OR COMPACTED BASE MATERIAL.
4. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, WATERCOURSE OR ROADWAY USING APPROVED METHODS.
5. MAINTENANCE: THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO A PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENT THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
6. DRAINAGE: EXIT MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
7. LOCATION OF SEDIMENT BASIN TO BE DETERMINED BY SLOPE OF AREA WHERE STABILIZED EXIT IS LOCATED. TO BE INSTALLED DOWNSTREAM OF STABILIZED CONSTRUCTION ENTRANCE.

04 CONSTRUCTION ENTRANCE
N.T.S.

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CIVIL DETAILS

DRAWING RECORD

DATE	DESCRIPTION

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4240087 TBPE FIRM 7986

C4.00

PROJECT NO.: 2023209

GENERAL PROJECT NOTES

- "GENERAL CONTRACTOR IS TO AUDIT ALL EXISTING SYSTEMS BEFORE THE WORK IS STARTED TO VERIFY WORKING AND/OR NON-WORKING COMPONENTS. THE SYSTEMS INCLUDED ARE FIRE ALARM, PA, SECURITY, SECURITY SENSORS, HVAC, CONTROLS, ETC. CONTRACTOR IS TO AUDIT THESE SYSTEMS AND PROVIDE A WRITTEN REPORT TO THE PMF PM OF WHAT WAS FOUND FOR EACH SYSTEM AND PRECONSTRUCTION PHOTOS OF THESE SYSTEMS PER THE PROJECT SPECIFICATION SECTION 01 32 33 – PHOTOGRAPHIC DOCUMENTATION REQUIREMENTS". IF A WRITTEN REPORT IS NOT FURNISHED BEFORE THE CONTRACTOR MOBILIZES ON SITE AND/OR 10 BUSINESS DAYS FROM RECEIVING A NOTICE TO PROCEED, THE SYSTEM(S) WILL BE CONSIDERED TO BE FULLY FUNCTIONAL, AND THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THEM AS SUCH THROUGH THE DURATION OF THE PROJECT, AND RETURN THEM IN FULLY OPERATIONAL CONDITION AT THE END OF THE PROJECT (FINAL COMPLETION) AT NO ADDITIONAL COST TO THE OWNER.
- THE GENERAL CONTRACTOR RESPONSIBLE FOR HIRING THE ABATEMENT CONTRACTOR AND COORDINATE DURING CONSTRUCTION AND SCHEDULE. THE OWNER TO PROVIDE MONITORING SERVICES DURING ABATEMENT. REFER TO SPECS FOR HAZMAT REPORT.
- THE GENERAL CONTRACTOR TO EMPTY EXISTING GREASE INTERCEPTOR, SAMPLE WELL, ASSOCIATED GREASE WASTE PIPING AND SIMILAR EQUIPMENT BEFORE DEMO. GENERAL CONTRACTOR TO PROVIDE A TURN KEY PROPOSAL FOR GREASE EXTRACTION SERVICES.

DEMOLITION CEILING PLAN LEGEND

- EXIST. TO BE REMOVED OR RELOCATED
- EXIST. TO REMAIN
- 2'x4' RECESSED FLUORESCENT FIXTURE TO BE REMOVED & SALVAGED FOR REUSE. REFER TO OWNER FOR STORAGE LOCATION.
- EXISTING 2'X2' ACOUSTICAL LAY-IN CEILING TO REMAIN.
- NOT IN SCOPE

DEMOLITION NOTES

- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND RELATED ITEMS REQUIRED TO COMPLETE THE DEMOLITION WORK.
- REMOVE ALL BUILDING PARTS AND/OR OTHER ITEMS AS REQUIRED TO ALLOW FOR THE INSTALLATION AND CONNECTION OF THE NEW WORK, INCLUDING REMOVAL OF SUCH EXISTING MECHANICAL AND/OR ELECTRICAL EQUIPMENT, FIXTURES, PIPING, CONDUIT, WIRE, ETC., NOT REQUIRED IN CONNECTION WITH THE WORK.
- THE DEMOLITION DRAWINGS INDICATE BUILDING CONDITIONS PER EXISTING RECORDS AND PROJECT INVESTIGATION. THE CONTRACTOR SHALL ANTICIPATE POSSIBLE SLIGHT DEVIATION FROM THESE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR EXTENT OF DEMOLITION.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL DEMOLITION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATION OF ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- SALVAGE ALL EXISTING DOORS, FRAMES AND HARDWARE AND SHELVING NOT SCHEDULED FOR RE-USE AND STORE AS DIRECTED BY OWNER.
- ANY QUESTIONS CONCERNING OWNERSHIP OF SALVAGEABLE MATERIAL SHALL BE ANSWERED BY THE OWNER.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR THE EXECUTION OF THE WORK.
- PROTECT ALL EXISTING FINISHES, DOOR FRAMES, EQUIPMENT AND MATERIALS THAT ARE NOTED TO REMAIN IN PLACE.
- PROTECT EXISTING ITEMS AND MATERIALS THAT ARE TO BE REUSED DURING THEIR REMOVAL, HANDLING, AND STORAGE.
- REPLACE ALL ITEMS TO BE REUSED IF THEY ARE DAMAGED AND CANNOT BE REPAIRED TO THE SATISFACTION OF THE ARCHITECT.
- PROTECT ACCESS TO ALL OCCUPIED SPACES FOR CONTINUOUS OPERATION.
- COORDINATE ALL WORK WITH THE OWNER & TENANT IN ORDER TO AVOID INTERFERING WITH THE OWNER'S OPERATIONS.
- REMOVAL OF THE BUILDING PARTS SHALL BE PERFORMED IN A SAFE, ORDERLY AND CAREFUL MANNER, WITH CONSIDERATION AT ALL TIMES FOR THE SAFETY AND WELFARE OF THE PUBLIC, TENANTS, AND PERSONNEL OF THE CONTRACTOR AND/OR SUBCONTRACTORS.
- MAINTAIN THE UTILITIES TO OCCUPIED SPACES AT ALL TIMES DURING BUSINESS HOURS.
- AREAS INVOLVED SHALL BE KEPT CLEAN DURING WORKING HOURS AND SHALL BE SWEPT BROOM CLEAN AT THE END OF EACH WORK DAY.
- WHEN EXISTING MECHANICAL, PLUMBING AND/OR EQUIPMENT ARE TO BE REMOVED FROM THE BUILDING, THEY SHALL BE DISCONNECTED AT THE SOURCE.
- SERVICE CONNECTIONS SHALL BE SAFELY REMOVED, CAPPED OR PLUGGED IN CONFORMITY WITH LOCAL LAWS AND ORDINANCES, REQUIREMENTS OF PUBLIC UTILITY COMPANIES, AND OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, AND IN SUCH MANNER AS NOT TO INTERFERE WITH THE USE OF THE OCCUPIED SPACES IN THE BUILDING.
- LINES SUCH AS WATER, SEWER, OR SIMILAR UTILITIES THAT ARE TO BE ABANDONED SHALL BE CAPPED OR PLUGGED AS NECESSARY IN AN APPROVED MANNER.
- ALL UNSALVAGEABLE MATERIALS DEVELOPED DUE TO THIS DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
- METHODS OF HANDLING MATERIALS, RUBBISH, AND/OR DEBRIS SHALL BE SUCH THAT THE SCATTERING OF DUST SHALL BE HELD TO A MINIMUM.
- TRUCKS AND/OR OTHER FORMS OF TRANSPORTATION USED FOR HAULING MATERIALS, TRASH AND/OR DEBRIS FROM THE SITE SHALL BE SUCH THAT NO MATERIALS, TRASH, OR DEBRIS IS DROPPED OR SCATTERED ALONG THE ROUTE OF TRAVEL EITHER ON SITE OR AFTER LEAVING THE SITE.
- TELEPHONE AND ELECTRICAL OUTLETS SHALL BE REMOVED AND CAPPED OFF AT THE NEAREST JUNCTION BOX WHEN EXISTING WALLS ARE DEMOLISHED AND SHALL BE REMOVED AND THE HOLE PATCHED WHEN EXISTING WALLS ARE TO REMAIN UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL REMOVE EXISTING FINISHES AS REQUIRED FOR INSTALLATION OF NEW FINISHES AND SHALL PREPARE THESE SURFACES TO RECEIVE THE NEW FINISHES.
- THE CONTRACTOR SHALL REMOVE EXISTING CARPET OR OTHER FLOOR COVERING IN THE AREA OF CONSTRUCTION AND SHALL PREPARE FLOOR FOR NEW FLOOR COVERING AS SPECIFIED.

DEMOLITION FLOOR PLAN LEGEND

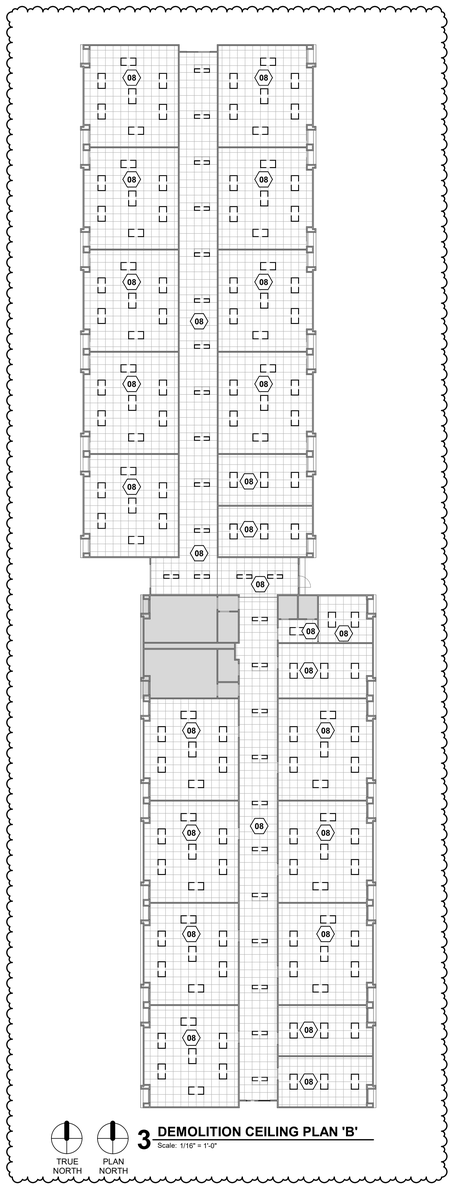
- EXIST. TO BE REMOVED OR RELOCATED
- EXIST. TO REMAIN
- NOT IN SCOPE

DEMO NOTES BY SYMBOL

- 01 REMOVE AND DISCARD PORTION OF EXISTING WALL AND PASS THRU WINDOW, PREP OPENING TO RECEIVE NEW STOREFRONT. PATCH AS NEEDED.
- 02 REMOVE MILLWORK AND SAVE FOR RELOCATION
- 03 DOOR, HARDWARE AND FRAME TO BE REMOVED PREP. FOR A NEW DOOR WITH ELECTRIFIED HARDWARE
- 04 REMOVE MILLWORK AND SAVE FOR POSSIBLE RELOCATION COORDINATE WITH OWNER
- 05 REMOVE THERMOSTAT AND CHECK-IN DEVICE SAVE FOR RELOCATION, REF. MEP
- 06 EXISTING MILLWORK TO REMAIN, PROTECT DURING CONSTRUCTION.
- 07 DOOR TO BE REMOVED PREP. FOR A NEW DOOR WITH ELECTRIFIED HARDWARE FRAME AND STOREFRONT TO REMAIN

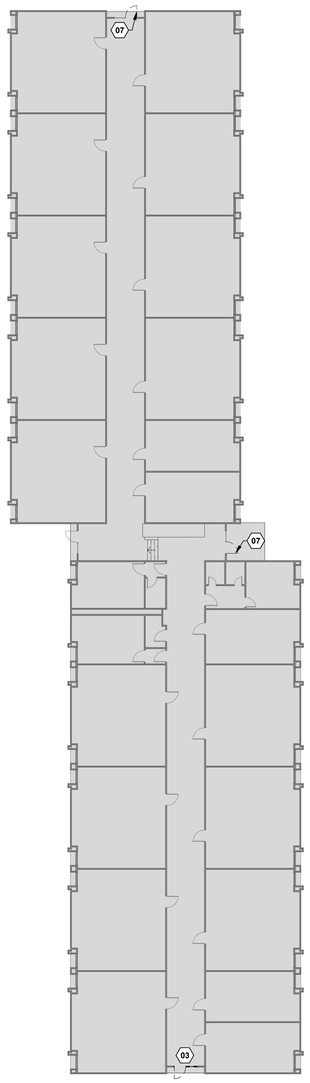
ALT. DEMO RCP NOTES BY SYMBOL

- 08 LIGHT FIXTURES SCHEDULED TO BE REMOVED AND REPLACED. REFER TO MEP FOR FURTHER INFORMATION. PROTECT EXISTING CEILING TILE & GRID DURING CONSTRUCTION. IF GC DAMAGES CEILING GRID & TILE SYSTEM DURING CONSTRUCTION, GC IS RESPONSIBLE TO REPLACE ENTIRE CEILING WITH NEW.



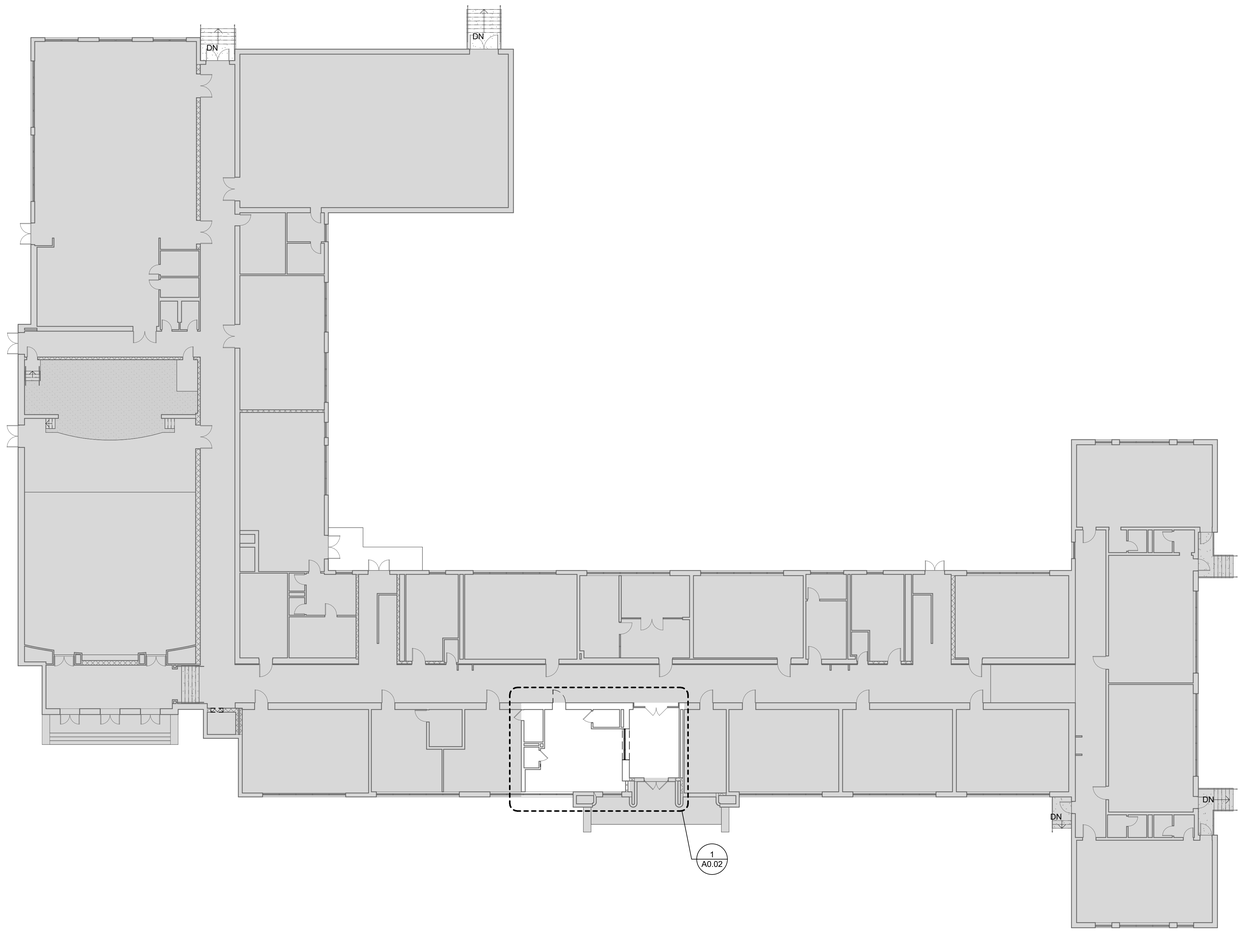
TRUE NORTH / PLAN NORTH

3 DEMOLITION CEILING PLAN 'B'
Scale: 1/16" = 1'-0"



TRUE NORTH / PLAN NORTH

2 DEMOLITION FLOOR PLAN 'B'
Scale: 1/16" = 1'-0"



TRUE NORTH / PLAN NORTH

1 DEMOLITION FLOOR PLAN 'A'
Scale: 1/16" = 1'-0"

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REGISTERED ARCHITECT — STATE OF TEXAS

09/18/2024

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DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

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7900 Hume Dr. Dallas, TX 75227

OVERALL DEMOLITION PLAN

DRAWING RECORD	
DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD
08/16/24	95% CD
09/09/24	100% CD
09/18/24	BID SET

A0.01

PROJECT NO.: 2023209

DEMOLITION NOTES

- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND RELATED ITEMS REQUIRED TO COMPLETE THE DEMOLITION WORK.
- REMOVE ALL BUILDING PARTS AND/OR OTHER ITEMS AS REQUIRED TO ALLOW FOR THE INSTALLATION AND CONNECTION OF THE NEW WORK, INCLUDING REMOVAL OF SUCH EXISTING MECHANICAL AND/OR ELECTRICAL EQUIPMENT, FIXTURES, PIPING, CONDUIT, WIRE, ETC., NOT REQUIRED IN CONNECTION WITH THE WORK.
- THE DEMOLITION DRAWINGS INDICATE BUILDING CONDITIONS PER EXISTING RECORDS AND PROJECT INVESTIGATION. THE CONTRACTOR SHALL ANTICIPATE POSSIBLE SLIGHT DEVIATION FROM THESE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR EXTENT OF DEMOLITION.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL DEMOLITION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATION OF ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- SALVAGE ALL EXISTING DOORS, FRAMES AND HARDWARE AND SHELVING NOT SCHEDULED FOR RE-USE AND STORE AS DIRECTED BY OWNER.
- ANY QUESTIONS CONCERNING OWNERSHIP OF SALVAGEABLE MATERIAL SHALL BE ANSWERED BY THE OWNER.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR THE EXECUTION OF THE WORK.
- PROTECT ALL EXISTING FINISHES, DOOR FRAMES, EQUIPMENT AND MATERIALS THAT ARE NOTED TO REMAIN IN PLACE.
- PROTECT EXISTING ITEMS AND MATERIALS THAT ARE TO BE REUSED DURING THEIR REMOVAL, HANDLING, AND STORAGE.
- REPLACE ALL ITEMS TO BE REUSED IF THEY ARE DAMAGED AND CANNOT BE REPAIRED TO THE SATISFACTION OF THE ARCHITECT.
- PROTECT ACCESS TO ALL OCCUPIED SPACES FOR CONTINUOUS OPERATION.
- COORDINATE ALL WORK WITH THE OWNER & TENANT IN ORDER TO AVOID INTERFERING WITH THE OWNER'S OPERATIONS.
- REMOVAL OF THE BUILDING PARTS SHALL BE PERFORMED IN A SAFE, ORDERLY AND CAREFUL MANNER, WITH CONSIDERATION AT ALL TIMES FOR THE SAFETY AND WELFARE OF THE PUBLIC, TENANTS, AND PERSONNEL OF THE CONTRACTOR AND/OR SUBCONTRACTORS.
- MAINTAIN THE UTILITIES TO OCCUPIED SPACES AT ALL TIMES DURING BUSINESS HOURS.
- AREAS INVOLVED SHALL BE KEPT CLEAN DURING WORKING HOURS AND SHALL BE SWEPT BROOM CLEAN AT THE END OF EACH WORK DAY.
- WHEN EXISTING MECHANICAL, PLUMBING AND/OR EQUIPMENT ARE TO BE REMOVED FROM THE BUILDING, THEY SHALL BE DISCONNECTED AT THE SOURCE.
- SERVICE CONNECTIONS SHALL BE SAFELY REMOVED, CAPPED OR PLUGGED IN CONFORMITY WITH LOCAL LAWS AND ORDINANCES, REQUIREMENTS OF PUBLIC UTILITY COMPANIES, AND OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, AND IN SUCH MANNER AS NOT TO INTERFERE WITH THE USE OF THE OCCUPIED SPACES IN THE BUILDING.
- LINES SUCH AS WATER, SEWER, OR SIMILAR UTILITIES THAT ARE TO BE ABANDONED SHALL BE CAPPED OR PLUGGED AS NECESSARY IN AN APPROVED MANNER.
- ALL UNSALVAGEABLE MATERIALS DEVELOPED DUE TO THIS DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
- METHODS OF HANDLING MATERIALS, RUBBISH, AND/OR DEBRIS SHALL BE SUCH THAT THE SCATTERING OF DUST SHALL BE HELD TO A MINIMUM.
- TRUCKS AND/OR OTHER FORMS OF TRANSPORTATION USED FOR HAULING MATERIALS, TRASH AND/OR DEBRIS FROM THE SITE SHALL BE SUCH THAT NO MATERIALS, TRASH, OR DEBRIS IS DROPPED OR SCATTERED ALONG THE ROUTE OF TRAVEL EITHER ON SITE OR AFTER LEAVING THE SITE.
- TELEPHONE AND ELECTRICAL OUTLETS SHALL BE REMOVED AND CAPPED OFF AT THE NEAREST JUNCTION BOX WHEN EXISTING WALLS ARE DEMOLISHED AND SHALL BE REMOVED AND THE HOLE PATCHED WHEN EXISTING WALLS ARE TO REMAIN UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL REMOVE EXISTING FINISHES AS REQUIRED FOR INSTALLATION OF NEW FINISHES AND SHALL PREPARE THESE SURFACES TO RECEIVE THE NEW FINISHES.
- THE CONTRACTOR SHALL REMOVE EXISTING CARPET OR OTHER FLOOR COVERING IN THE AREA OF CONSTRUCTION AND SHALL PREPARE FLOOR FOR NEW FLOOR COVERING AS SPECIFIED.

DEMOLITION FLOOR PLAN LEGEND

- EXIST. TO BE REMOVED OR RELOCATED
- EXIST. TO REMAIN
- NOT IN SCOPE

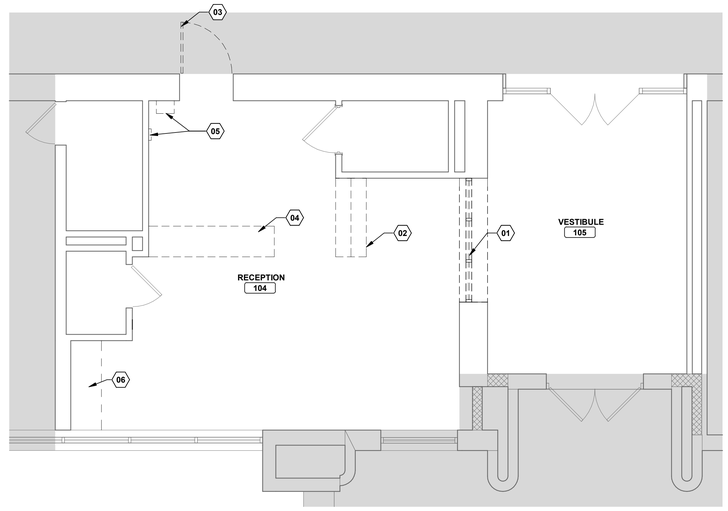
DEMO NOTES BY SYMBOL

- 01 REMOVE AND DISCARD PORTION OF EXISTING WALL AND PASS THRU WINDOW, PREP OPENING TO RECEIVE NEW STOREFRONT. PATCH AS NEEDED.
- 02 REMOVE MILLWORK AND SAVE FOR RELOCATION
- 03 DOOR, HARDWARE AND FRAME TO BE REMOVED PREP. FOR A NEW DOOR WITH ELECTRIFIED HARDWARE
- 04 REMOVE MILLWORK AND SAVE FOR POSSIBLE RELOCATION COORDINATE WITH OWNER
- 05 REMOVE THERMOSTAT AND CHECK-IN DEVICE SAVE FOR RELOCATION, REF. MEP
- 06 EXISTING MILLWORK TO REMAIN, PROTECT DURING CONSTRUCTION.
- 07 DOOR TO BE REMOVED PREP. FOR A NEW DOOR WITH ELECTRIFIED HARDWARE FRAME AND STOREFRONT TO REMAIN

3 PHOTO DETAIL
Scale:N.T.S.

4 PHOTO DETAIL
Scale:N.T.S.

2 PHOTO DETAIL
Scale: 1" = 160'-0"



TRUE NORTH
PLAN NORTH

1 ENLARGED DEMO PLAN
Scale: 1/4" = 1'-0"

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ENLARGED DEMOLITION PLANS

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD
08/16/24	95% CD
09/09/24	100% CD
09/18/24	BID SET

A0.02

PROJECT NO.: 2023209

SITE DATA SUMMARY

CURRENT USE:	PUBLIC SCHOOL
CURRENT TOTAL LOT AREA:	X.XX ACRES (XXX,XXXSQUARE FEET)
CURRENT FLOOR AREA:	XX,XXX SQUARE FEET
MAXIMUM ALLOWABLE LOT COVERAGE:	25%
ACTUAL LOT COVERAGE:	17% (WITH ADDITION)
TOTAL NUMBER OF EXISTING CLASSROOMS:	35
PARKING REQUIRED:	80 VEHICLES, INCLUDING (X) ACCESSIBLE SPACES
CURRENT PARKING PROVIDED:	80 VEHICLES, INCLUDING (4) ACCESSIBLE SPACES
CURRENT FOOTPRINT AREA:	62,997 SQUARE FEET
PROPOSED FOOTPRINT AREA:	XXXXX SQUARE FEET
TOTAL FOOTPRINT AREA:	XXXXX SQUARE FEET
CURRENT FLOOR AREA:	XXXXX SQUARE FEET
PROPOSED FLOOR AREA:	XXXXX SQUARE FEET
TOTAL FLOOR AREA:	XXXXX SQUARE FEET

FOR PD REFERENCE, REFER TO PD641

GENERAL PROJECT NOTES

- "GENERAL CONTRACTOR IS TO AUDIT ALL EXISTING SYSTEMS BEFORE THE WORK IS STARTED TO VERIFY WORKING AND/OR NON-WORKING COMPONENTS. THE SYSTEMS INCLUDED ARE FIRE ALARM, PA, SECURITY, SECURITY SENSORS, HVAC CONTROLS, ETC. CONTRACTOR IS TO AUDIT THESE SYSTEMS AND PROVIDE A WRITTEN REPORT TO THE PMF PM OF WHAT WAS FOUND FOR EACH SYSTEM AND PRECONSTRUCTION PHOTOS OF THESE SYSTEMS PER THE PROJECT SPECIFICATION SECTION 01 32 33 – PHOTOGRAPHIC DOCUMENTATION REQUIREMENTS". IF A WRITTEN REPORT IS NOT FURNISHED BEFORE THE CONTRACTOR MOBILIZES ON SITE AND/OR 10 BUSINESS DAYS FROM RECEIVING A NOTICE TO PROCEED, THE SYSTEM(S) WILL BE CONSIDERED TO BE FULLY FUNCTIONAL, AND THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THEM AS SUCH THROUGH THE DURATION OF THE PROJECT, AND RETURN THEM IN FULLY OPERATIONAL CONDITION AT THE END OF THE PROJECT (FINAL COMPLETION) AT NO ADDITIONAL COST TO THE OWNER.
- THE GENERAL CONTRACTOR RESPONSIBLE FOR HIRING THE ABATEMENT CONTRACTOR AND COORDINATE DURING CONSTRUCTION AND SCHEDULE. THE OWNER TO PROVIDE MONITORING SERVICES DURING ABATEMENT. REFER TO SPECS FOR HAZMAT REPORT.
- THE GENERAL CONTRACTOR TO EMPTY EXISTING GREASE INTERCEPTOR, SAMPLE WELL, ASSOCIATED GREASE WASTE PIPING AND SIMILAR EQUIPMENT BEFORE DEMO. GENERAL CONTRACTOR TO PROVIDE A TURN KEY PROPOSAL FOR GREASE EXTRACTION SERVICES.

SITE PLAN LEGEND

EXISTING BUILDING

SITE PLAN NOTES BY SYMBOL

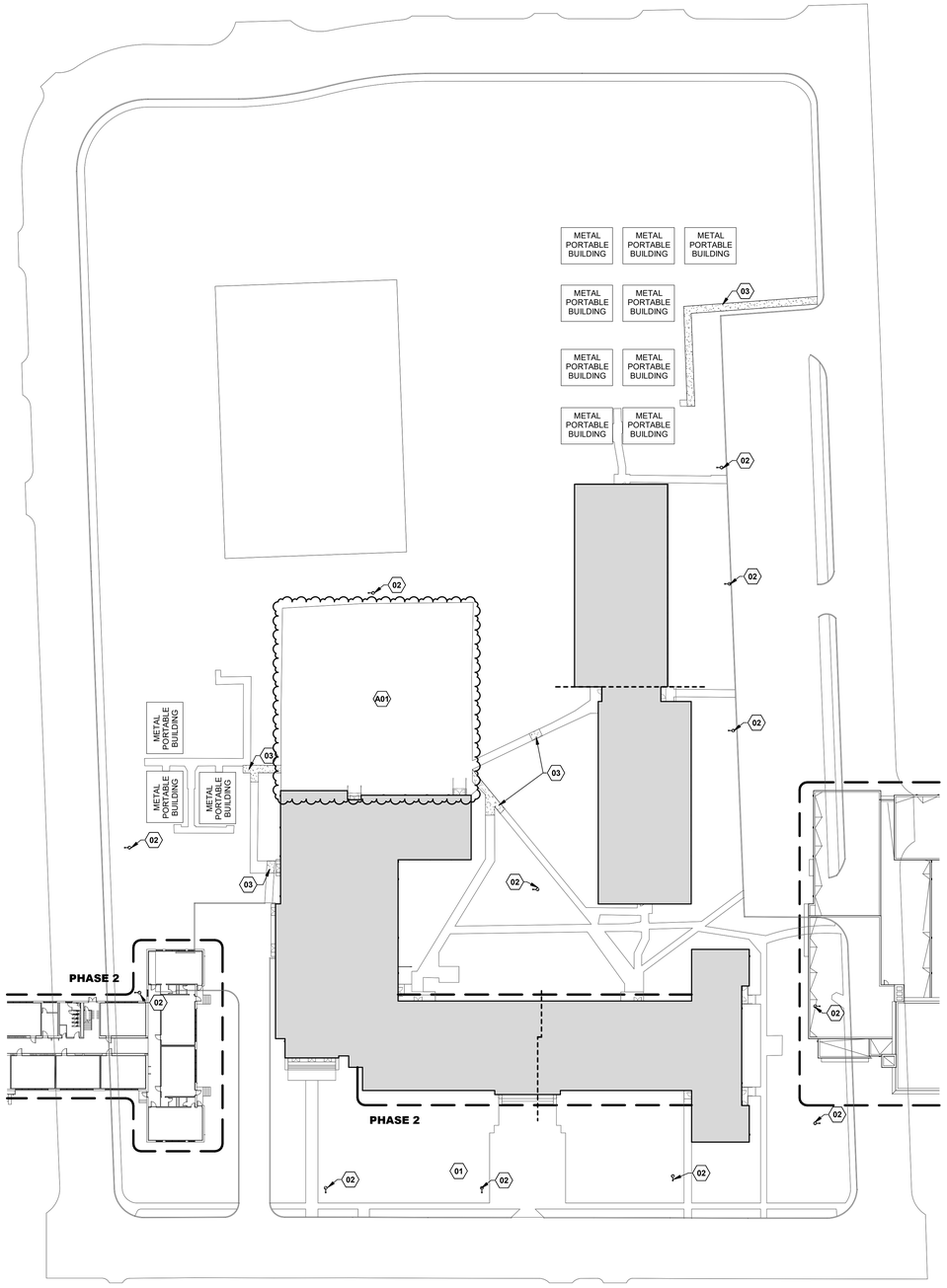
01 REMOVE AND REPLACE WITH NEW DIGITAL MARQUEE SIGN.

02 REPLACE EXTERIOR LIGHTS WITH LED LIGHTING AND PROVIDE EXTERIOR LIGHTING CONTROLS, REFER TO MEP

03 REMOVE AND REPLACE DAMAGED CONCRETE SIDEWALKS, REFER TO CIVIL

ALTERNATE NOTES BY SYMBOL

A01 REPAIR AND RESURFACE BLACKTOP PLAYGROUND.



TRUE NORTH / PLAN NORTH

1 SITE PLAN
Scale: 1" = 40'-0"

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SITE PLAN

DRAWING RECORD

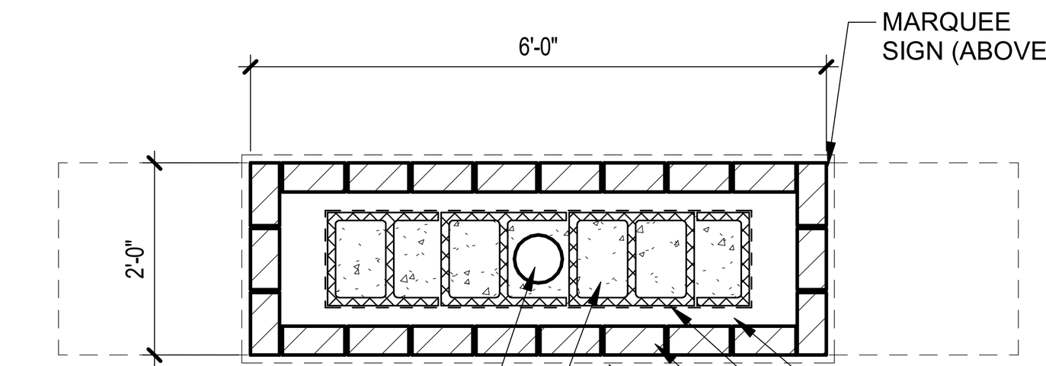
DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD
08/16/24	95% CD
09/09/24	100% CD
09/18/24	BID SET

A1.01

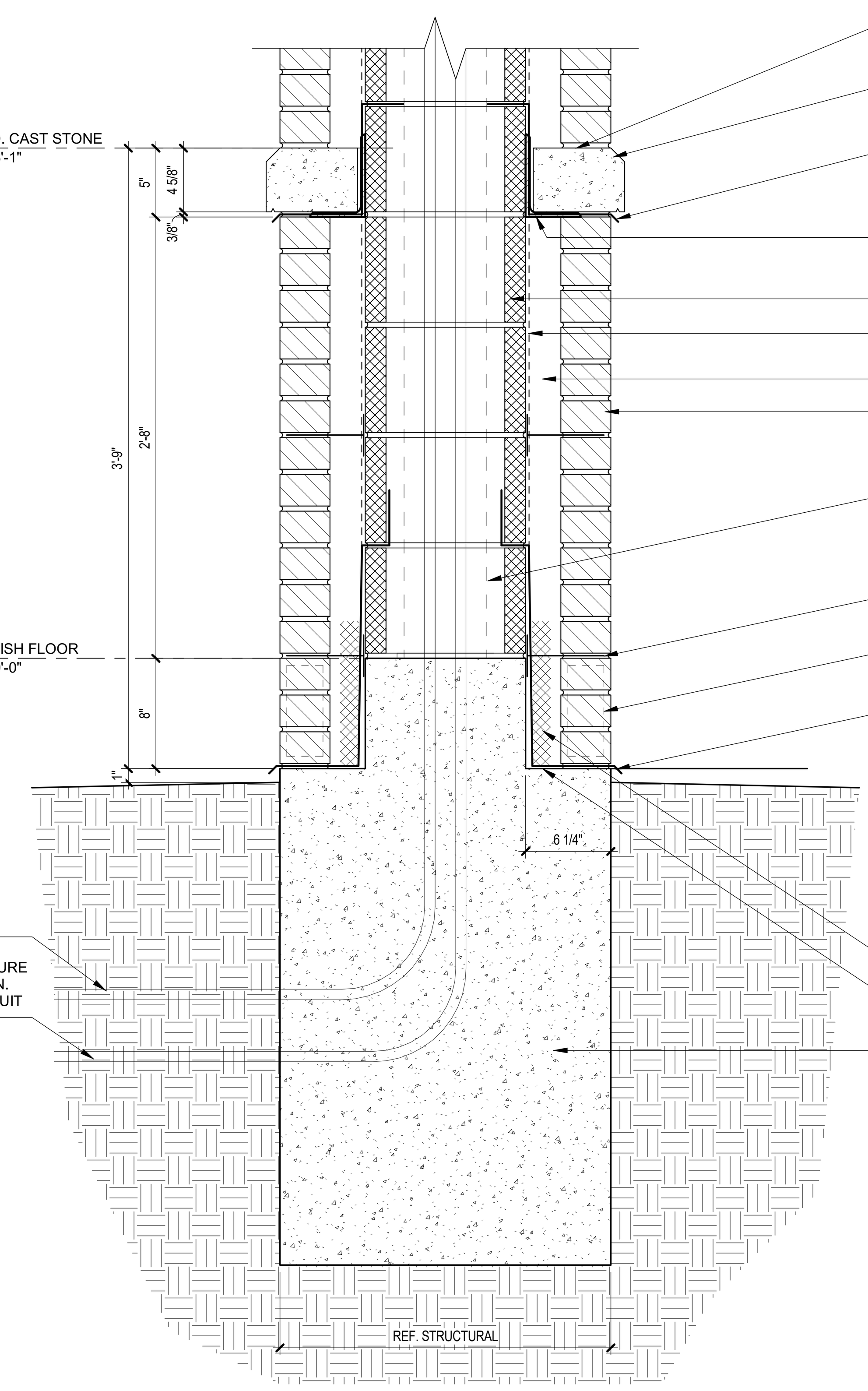
PROJECT NO.: 2023209

MARQUEE SIGNAGE NOTES

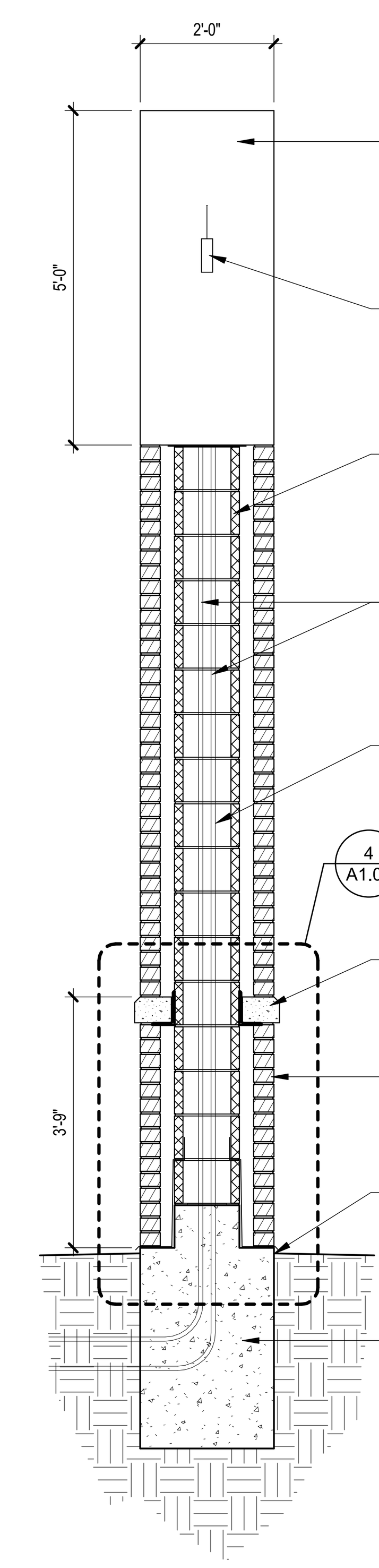
1. REFER TO MEP FOR ALL ELECTRICAL AND DATE REQUIREMENTS.



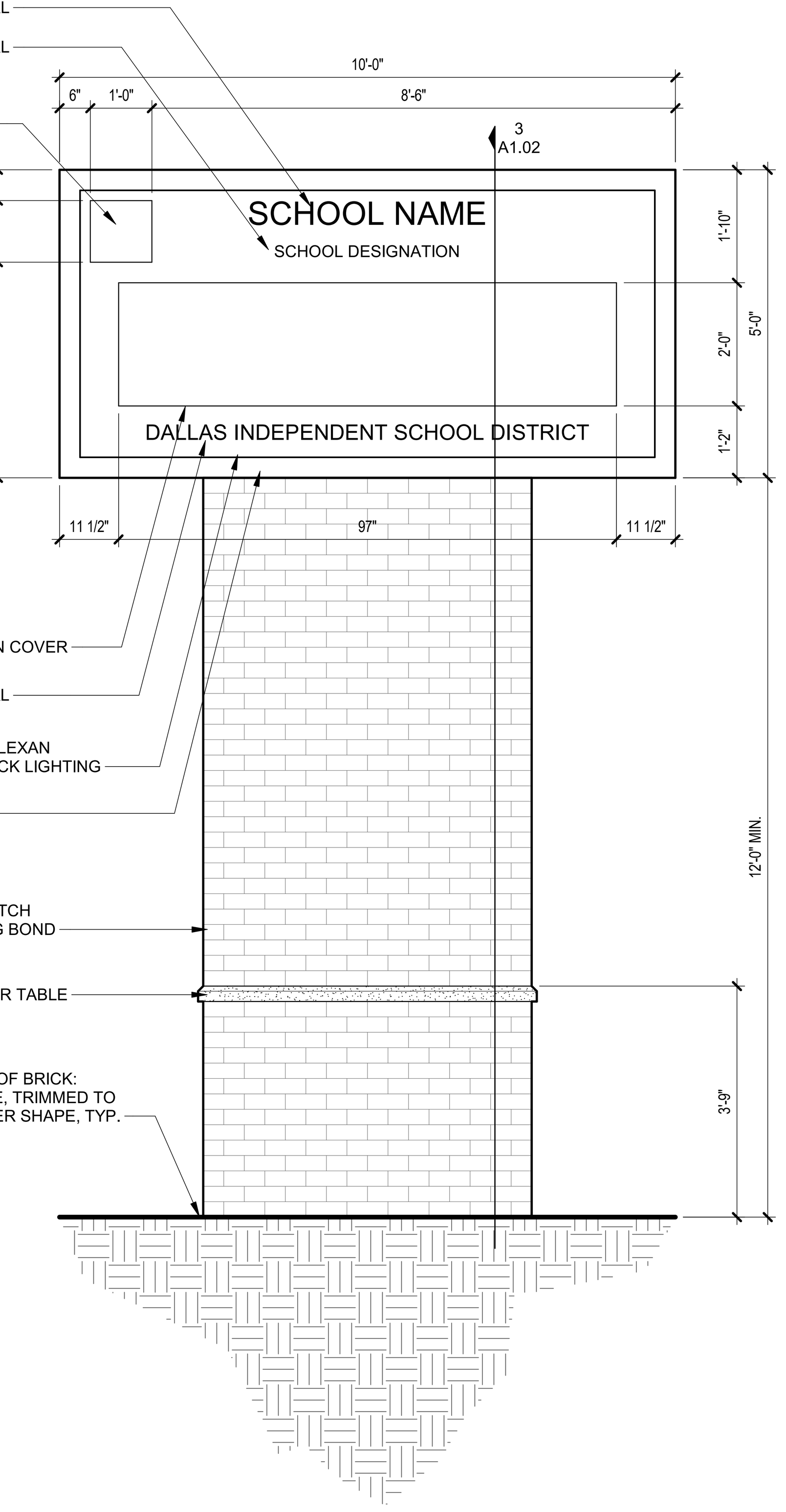
2 MARQUEE SIGNAGE PLAN
Scale: 1/2" = 1'-0"



4 MARQUEE SIGNAGE DETAIL
Scale: 1 1/2" = 1'-0"



3 MARQUEE SIGNAGE SECTION
Scale: 1/2" = 1'-0"



1 MARQUEE SIGNAGE ELEVATION
Scale: 1/2" = 1'-0"

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MARQUEE SIGNAGE & DETAILS

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
08/16/24	95% CD
09/09/24	100% CD
09/18/24	BID SET

A1.02

PROJECT NO.: 2023209

NOTES BY SYMBOL

01 PROVIDE NEW RPZ, REFER MEP

02 REPLACE EXTERIOR WATERPROOFING / SEALANT JOINTS

03 REPAIR BROKEN AND CRACKED EXTERIOR CLADDING AT MODULAR BUILDING

04 REPLACE OUTDATED EXTERIOR WINDOWS WITH NEW ENERGY EFFICIENT WINDOW SYSTEM AT MODULAR BUILDING

05 PROVIDE EMERGENCY LIGHTING IN COMMON AREAS, REFER TO MEP

06 PROVIDE NEW DOOR AND STOREFRONT WITH ELECTRIFIED HARDWARE

07 PROVIDE NEW DOOR WITH ELECTRIFIED HARDWARE, FRAME TO REMAIN

08 REPAIR MUST BE APPLIED APPLICATION IN LIEU OF CUTTING AND REMOVING DUE TO ASBESTOS MATERIAL WITHIN EXISTING EXTERIOR FINISH

GENERAL PROJECT NOTES

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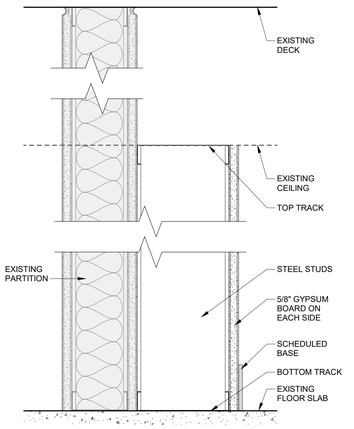
FLOOR PLAN LEGEND

- EXIST. TO REMAIN
- NEW CONSTRUCTION
- XXXX — PARTITION TYPE SYMBOL
- F.E.C. — RECESSED FIRE EXTINGUISHER CABINET
- CR — CARD READER
- 60" CLEAR FLOOR SPACE
- 30" X 48" CLEAR FLOOR SPACE
- # — EQUIPMENT & ACCESSORY TAG
- # — WINDOW TAG
- NOT IN SCOPE



TYPE A

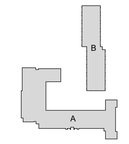
PARTITION TYPES

1. SYMBOL DESCRIPTION
   - A- - - 1st CHARACTER INDICATES PARTITION TYPE.
   - -2- - 2nd CHARACTER INDICATES STRUCTURAL ELEMENT THICKNESS.

CHARACTER	STUD SIZE
1	1-5/8"
2	2-1/2"
3	3-5/8"
4	4"
6	6"
8	8"
Y	10"
Z	12"

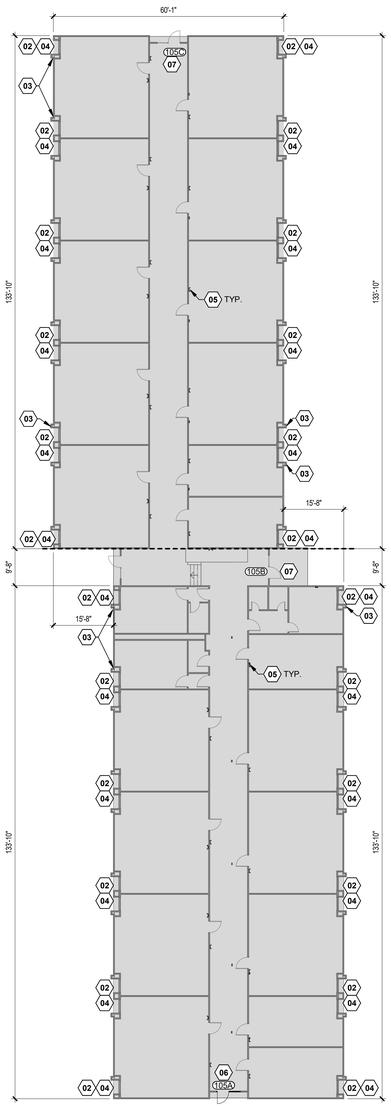
   - - - 1 - 3rd CHARACTER INDICATES FIRE RATING IN HOURS.
   - - - - T 4th CHARACTER INDICATES INSULATION TYPE.
     T = THERMAL
     A = ACOUSTICAL INSULATION
     X = NONE
2. "LINE OF STRUCTURE" OR "DECK" INDICATED IS DIAGRAMATIC ONLY.
3. SEALANT/FIRE STOPPING:
   A. FIRE RESISTANT RATED PARTITIONS SHALL USE FIRE STOPPING.
   B. PARTITIONS WITH ACOUSTICAL ATTENUATION BLANKETS SHALL USE ACOUSTICAL SEALANT AND FLOOR TRACKS SHALL BE SET IN A FULL BED OF MASTIC.
   C. PARTITIONS WITH THERMAL INSULATION SHALL USE SPECIFIED SEALANT.
   D. ALL OTHER PARTITIONS DO NOT REQUIRE SEALANT.
4. REFER TO SPECIFICATIONS FOR CRITERIA REGARDING ALLOWABLE DEFLECTION AND THE RESULTING REQUIRED STEEL GAUGE AND STUD SPACING. ADJUST STUD SIZES IF NECESSARY TO COMPLY WITH CRITERIA.
5. FIRE AND/OR SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO INSIDE FACE OF EXTERIOR SHEATHING, CONCRETE OR CMU, INCLUDING EXTENSIONS THROUGH SOFFITS.
6. EACH PARTITION SHOWN ON THE DRAWINGS REQUIRED TO HAVE A FIRE AND/OR SMOKE RESISTANT RATING SHALL BE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF THE WALL AND 6'-0" O.C. MAX. EACH SIDE.
7. SOME PARTITIONS SHOWN HERE MAY NOT BE USED. REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATIONS.
8. PARTITIONS SCHEDULED TO RECEIVE CERAMIC OR PORCELAIN TILE, INSTALL 5/8" WATER RESISTANT GYPSUM BOARD IN LIEU OF STANDARD GYPSUM BOARD. RE: SPEC SECTION 092900
9. RIGID INSULATION CANNOT BE EXPOSED AND MUST BE COVERED WITH 5/8" GYPSUM BOARD.

KEY MAP



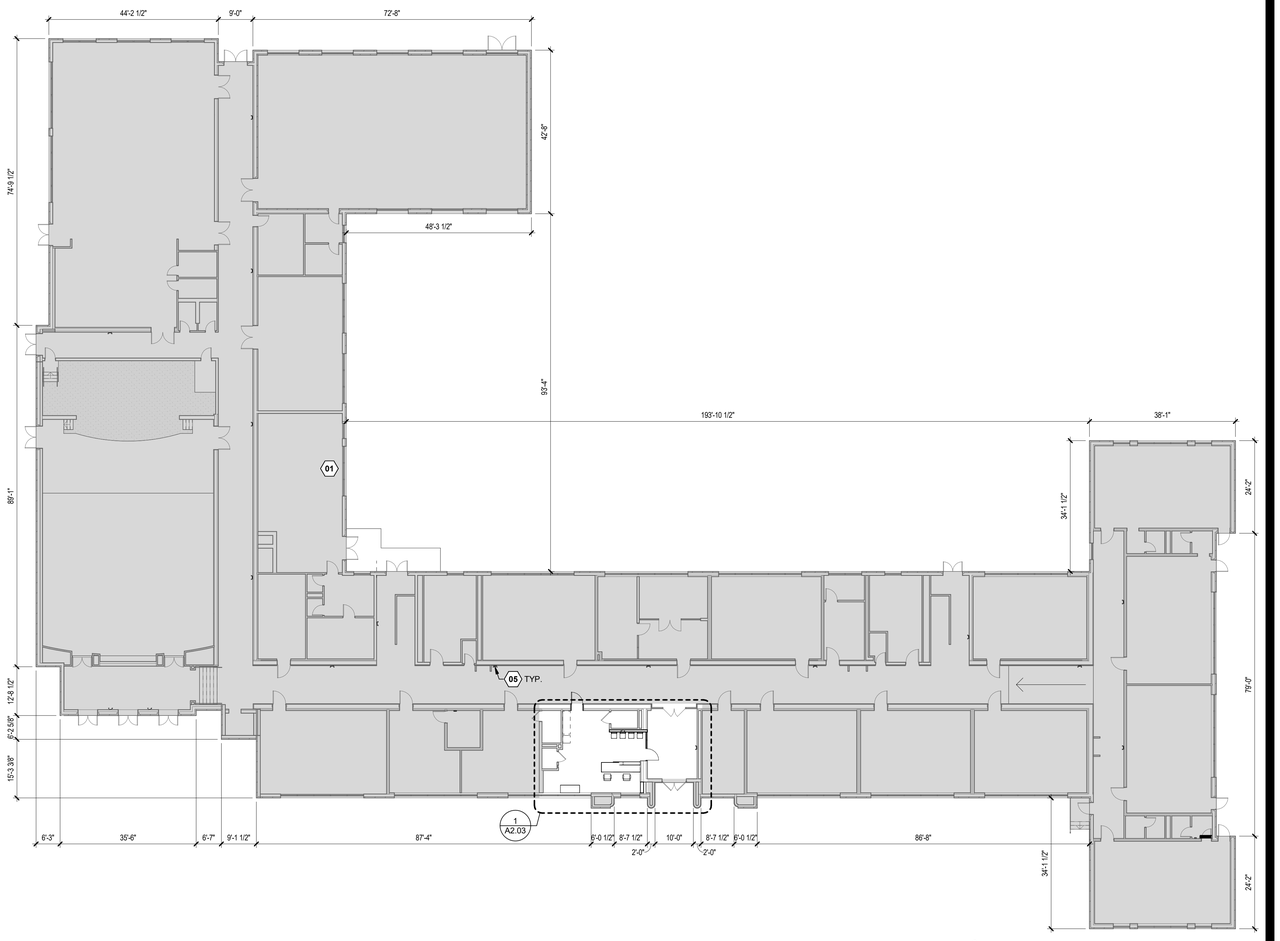
4 PHOTO DETAIL
Scale: N.T.S.

3 PHOTO DETAIL
Scale: 1" = 160'-0"



TRUE NORTH PLAN NORTH

2 OVERALL FLOOR PLAN
Scale: 1/16" = 1'-0"



TRUE NORTH PLAN NORTH

1 OVERALL FLOOR PLAN
Scale: 1/16" = 1'-0"

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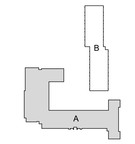
OVERALL FLOOR PLAN

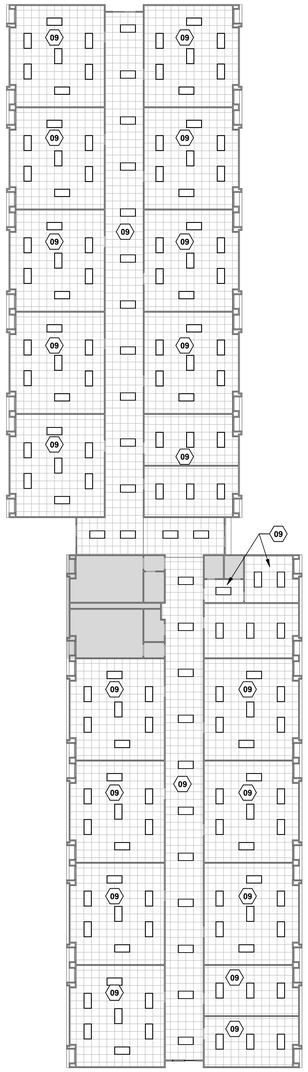
DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD
08/16/24	95% CD
09/09/24	100% CD
09/18/24	BID SET

A2.01

PROJECT NO.: 2023209





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- THE GENERAL CONTRACTOR TO EMPTY EXISTING GREASE INTERCEPTOR, SAMPLE WELL, ASSOCIATED GREASE WASTE PIPING AND SIMILAR EQUIPMENT BEFORE DEMO. GENERAL CONTRACTOR TO PROVIDE A TURN KEY PROPOSAL FOR GREASE EXTRACTION SERVICES.

REFLECTED CEILING NOTES

- ALL WORK SHALL CONFORM TO ALL APPLICABLE BUILDING CODES.
- CEILING TILE, LIGHT FIXTURES AND OTHER ITEMS SCHEDULED ON DRAWINGS SHALL BE LOCATED PER REFLECTED CEILING PLANS. THE CONTRACTOR SHALL USE EXTREME CARE IN COORDINATING THEIR WORK TO FIT THE PATTERN SHOWN ON THE REFLECTED CEILING PLANS. IF A CONFLICT OCCURS BETWEEN THE MECHANICAL SYSTEMS AND THE COORDINATION OF LIGHT FIXTURES ABOVE THE CEILING, CONTACT THE ARCHITECTS FOR INTERPRETATION. GENERAL CONTRACTOR TO SUBMIT ANY REVISED LAYOUT TO THE ARCHITECT PRIOR TO INSTALLATION.
- LIGHT SWITCHES, CONTROLS, DIMMERS, RHEOSTATS AND THERMOSTATS MOUNTING HEIGHTS SHALL BE 48" A.F.F. UNLESS NOTED OTHERWISE.
- SWITCHING SHALL BE GROUPED A MINIMUM DISTANCE APART.
- ALL DOWNLIGHTS ARE TO BE CENTERED WITHIN A CEILING TILE U.N.O.
- GENERAL CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF SMOKE DETECTORS, EXIT LIGHTS, AND FIRE ALARM SPEAKERS AS REQUIRED TO COMPLY WITH THE LOCAL BUILDING CODES.
- ALL EXISTING CIRCUITING AND SWITCHING FOR LIGHTS TO REMAIN EXCEPT AS NOTED.
- REFER TO MEP DRAWINGS FOR FIXTURE TYPES.
- PROPERLY EXTEND FIRE SPRINKLER SYSTEM SO AS TO PROVIDE COMPLETE COVERAGE. THE DESIGN, INSTALLATION AND MAINTENANCE SHALL COMPLY WITH NFPA-13, LOCAL ORDINANCES AND CODES.

REFLECTED CEILING PLAN LEGEND

EXIT LIGHT FIXTURES
(CEILING-MOUNTED OR WALL MOUNTED)

2'X2' RECESSED 'LED' FIXTURE

2'X4' RECESSED 'LED' FIXTURE

2'X2' ACOUSTICAL LAY-IN CEILING

PAINTED GYPSUM BOARD CEILING

NOTES BY SYMBOL

01	REPLACE SPRAY FOAM ROOF SYSTEM
02	REPLACE EXTERIOR WATERPROOFING / SEALANT JOINTS
03	REPAIR BROKEN AND CRACKED EXTERIOR CLADDING AT MODULAR BUILDING
04	REPLACE OUTDATED EXTERIOR WINDOWS WITH NEW ENERGY EFFICIENT WINDOW SYSTEM AT MODULAR BUILDING
05	PROVIDE EMERGENCY LIGHTING IN COMMON AREAS, REFER TO MEP
06	PROVIDE OR REPLACE IDF/MDF AIR CONDITIONING, REFER MEP
07	REPLACE SELECT RTUS AT MODULAR BUILDING, REFER TO MEP
08	REFER TO MEP FOR THE REPLACEMENT OF RTUS IN THIS BUILDING

ALT. NOTES BY SYMBOL

09	PROVIDE NEW LIGHTING AND ASSOCIATED EQUIPMENT

FLOOR PLAN LEGEND

EXIST. TO REMAIN

NEW CONSTRUCTION

XXXX PARTITION TYPE SYMBOL

F.E.C. RECESSED
FIRE EXTINGUISHER CABINET

CR CARD READER

60" CLEAR FLOOR SPACE

30" X 48" CLEAR FLOOR SPACE

EQUIPMENT & ACCESSORY TAG

WINDOW TAG

▨ NOT IN SCOPE

LEGEND GENERAL ROOF PLAN

RTU AHU MAU NEW ROOFTOP UNITS TO BE INSTALLED ALONG WITH NEW ROOF CURB, GAS PIPING, CONNECTION, CONDENSATE DRAIN PIPING, AND CONTROLS

▨ NOT IN SCOPE

KEY MAP

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TRUE NORTH PLAN NORTH

3 MODULAR BUILDING RCP
Scale: 1/16" = 1'-0"

TRUE NORTH PLAN NORTH

2 MODULAR BUILDING ROOF PLAN
Scale: 1/16" = 1'-0"

TRUE NORTH PLAN NORTH

1 OVERALL SECOND FLOOR
Scale: 1/16" = 1'-0"

SECOND FLOOR PLAN, MODULAR BUILDING RCP & ROOF PLAN

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD
08/16/24	95% CD
09/09/24	100% CD
09/18/24	BID SET

A2.02

PROJECT NO.: 2023209

INTERIOR MATERIAL SCHEDULE SCHEME 'A'

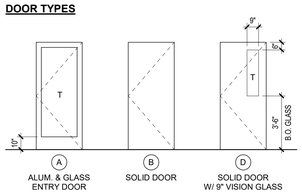
MARK	ITEM	MANUFACTURER	DESCRIPTION	COLOR	SIZE	REMARKS	CONTACT
B1	RUBBER BASE	ROPPE	VINYL WALL BASE	100 BLACK	4"	THROUGHOUT	
CPT1	CARPET TILE	J&J FLOORING	KINETEX COLLECTION	ACE	24X24		
DP	DRAWER PULL	RICHELIEU	CONTEMPORARY/EXPRESSION COLLECTION	BRUSHED NICKEL	6"		
P1	PAINT	SHERWIN WILLIAMS	FIELD PAINT	WHITE SESAME		THROUGHOUT	
PL1	PLASTIC LAMINATE	WILSONART	RECEPTION DESK	FAWN CYPRESS		FIELD	
PL2	PLASTIC LAMINATE	NEVAMAR	RECEPTION DESK	VIOLINE		ACCENT	
SS1	SOLID SURFACE	DURASEIN	RECEPTION DESK COUNTERTOP	BIANCA SABIA			
WD	WOOD DOOR	VT INDUSTRIES	WOOD DOOR	WHITE MAPLE VENEER, OASIS FINISH OA07		TO MATCH EXISTING	

DOOR SCHEDULE

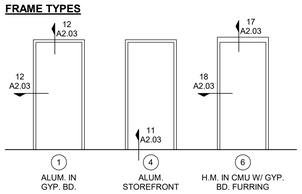
DOOR NUMBER	DOOR						FRAME		FIRE RATING	HARDWARE SET	NOTES
	TYPE	THICKNESS	WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	FINISH			
104A	A	1-3/4"	3'-0"	7'-10"	ALGL	CA	1	AL/CA		ER201AC	
104B	C	1-3/4"	3'-0"	V.I.F.	WD	WD	6	HM		CR201AC	
105A	B	1-3/4"	3'-0"	V.I.F.	HM	PT	4	AL/CA, V.I.F.		C715A	DOOR AND FRAME TO BE REPLACED
105B	B	1-3/4"	3'-0"	V.I.F.	HM	PT	4	AL/CA, V.I.F.		D715A	DOOR TO BE REPLACED, FRAME TO REMAIN
105C	B	1-3/4"	3'-0"	V.I.F.	HM	PT	4	AL/CA, V.I.F.		D715A	DOOR TO BE REPLACED, FRAME TO REMAIN

NOTE: ALL NEW DOORS TO RECEIVE CARD READER, MEP TO COORDINATE FOR POWER & INSTRUMENTS.

DOOR TYPES



FRAME TYPES



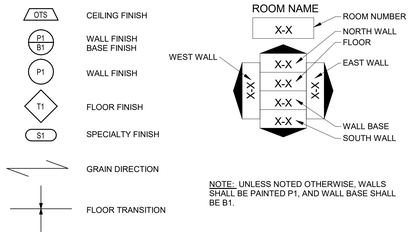
DOOR & FRAME LEGEND

AL - ALUMINUM
BL - BLACK ANODIZED
CA - CLEAR ANODIZED
DB - DARK BRONZE ANODIZED
GL - GLASS
HM - HOLLOW METAL
MTL - METAL
PL - PLASTIC LAMINATE
PT - PAINT
WD - WOOD

DOOR HARDWARE SETS

REFER TO HARDWARE SPECS

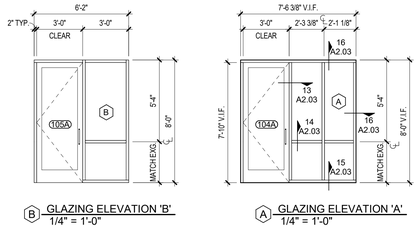
FINISH LEGEND



NOTE: UNLESS NOTED OTHERWISE, WALLS SHALL BE PAINTED P1, AND WALL BASE SHALL BE B1.

WINDOW SCHEDULE

TYPE	FRAME MATERIAL	WINDOW SIZE	FRAME DEPTH	FRAME FINISH
A	ALUM.	REF. TO ELEVATION	4 1/2"	CLEAR ANODIZED
B	ALUM.	REF. TO ELEVATION	4 1/2"	CLEAR ANODIZED



GENERAL PROJECT NOTES

- "GENERAL CONTRACTOR IS TO AUDIT ALL EXISTING SYSTEMS BEFORE THE WORK IS STARTED TO VERIFY WORKING AND/OR NON-WORKING COMPONENTS. THE SYSTEMS INCLUDED ARE FIRE ALARM, PA, SECURITY, SECURITY SENSORS, HVAC CONTROLS, ETC. CONTRACTOR IS TO AUDIT THESE SYSTEMS AND PROVIDE A WRITTEN REPORT TO THE PMF PM OF WHAT WAS FOUND FOR EACH SYSTEM AND PRECONSTRUCTION PHOTOS OF THESE SYSTEMS PER THE PROJECT SPECIFICATION SECTION 01 32 33 – PHOTOGRAPHIC DOCUMENTATION REQUIREMENTS'. IF A WRITTEN REPORT IS NOT FURNISHED BEFORE THE CONTRACTOR MOBILIZES ON SITE AND/OR 10 BUSINESS DAYS FROM RECEIVING A NOTICE TO PROCEED, THE SYSTEM(S) WILL BE CONSIDERED TO BE FULLY FUNCTIONAL AND THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THEM AS SUCH THROUGH THE DURATION OF THE PROJECT, AND RETURN THEM IN FULLY OPERATIONAL CONDITION AT THE END OF THE PROJECT (FINAL COMPLETION) AT NO ADDITIONAL COST TO THE OWNER.
- THE GENERAL CONTRACTOR RESPONSIBLE FOR HIRING THE ABATEMENT CONTRACTOR AND COORDINATE DURING CONSTRUCTION AND SCHEDULE. THE OWNER TO PROVIDE MONITORING SERVICES DURING ABATEMENT. REFER TO SPECS FOR HAZMAT REPORT.
- THE GENERAL CONTRACTOR TO EMPTY EXISTING GREASE INTERCEPTOR, SAMPLE WELL, ASSOCIATED GREASE WASTE PIPING AND SIMILAR EQUIPMENT BEFORE DEMO. GENERAL CONTRACTOR TO PROVIDE A TURN KEY PROPOSAL FOR GREASE EXTRACTION SERVICES.

REFLECTED CEILING NOTES

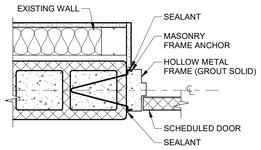
- ALL WORK SHALL CONFORM TO ALL APPLICABLE BUILDING CODES.
- CEILING TILE, LIGHT FIXTURES AND OTHER ITEMS SCHEDULED ON DRAWINGS SHALL BE LOCATED PER REFLECTED CEILING PLANS. THE CONTRACTOR SHALL USE EXTREME CARE IN COORDINATING THEIR WORK TO FIT THE PATTERN SHOWN ON THE REFLECTED CEILING PLANS. IF A CONFLICT OCCURS BETWEEN THE MECHANICAL SYSTEMS AND THE COORDINATION OF LIGHT FIXTURES ABOVE THE CEILING, CONTACT THE ARCHITECTS FOR INTERPRETATION. GENERAL CONTRACTOR TO SUBMIT ANY REVISED LAYOUT TO THE ARCHITECT PRIOR TO INSTALLATION.
- LIGHT SWITCHES, CONTROLS, DIMMERS, RHEOSTATS AND THERMOSTATS MOUNTING HEIGHTS SHALL BE 48" A.F.F. UNLESS NOTED OTHERWISE.
- SWITCHING SHALL BE GROUPED A MINIMUM DISTANCE APART.
- ALL DOWNLIGHTS ARE TO BE CENTERED WITHIN A CEILING TILE U.N.O.
- GENERAL CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF SMOKE DETECTORS, EXIT LIGHTS, AND FIRE ALARM SPEAKERS AS REQUIRED TO COMPLY WITH THE LOCAL BUILDING CODES.
- ALL EXISTING CIRCUITING AND SWITCHING FOR LIGHTS TO REMAIN EXCEPT AS NOTED.
- REFER TO MEP DRAWINGS FOR FIXTURE TYPES.
- PROPERLY EXTEND FIRE SPRINKLER SYSTEM SO AS TO PROVIDE COMPLETE COVERAGE. THE DESIGN, INSTALLATION AND MAINTENANCE SHALL COMPLY WITH NFPA-13, LOCAL ORDINANCES AND CODES.

FLOOR PLAN LEGEND

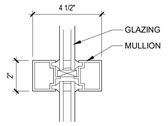
- EXIST. TO REMAIN
- NEW CONSTRUCTION
- XXXX — PARTITION TYPE SYMBOL
- F.E.C. — RECESSED FIRE EXTINGUISHER CABINET
- CR — CARD READER
- 60" CLEAR FLOOR SPACE
- 30" X 48" CLEAR FLOOR SPACE
- # — EQUIPMENT & ACCESSORY TAG
- # — WINDOW TAG
- NOT IN SCOPE

NOTES BY SYMBOL

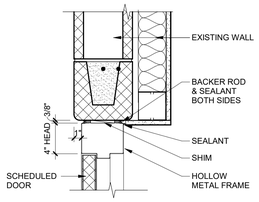
01 MATCH EXISTING WALL BASE IN NEW WALL
02 PROVIDE SECURE VESTIBULE (INCLUDES AI PHONE INFRASTRUCTURE FOR 2-UNITS)
03 REPLACE FIRE ALARM SYSTEM, REFER TO MEP
04 PROVIDE EMERGENCY LIGHTING IN COMMON AREAS, REF. MEP
05 RELOCATED THERMOSTAT AND ASSOCIATED EQUIPMENT, REF. MEP
06 RELOCATED DIGITAL CLOCK-IN AND ASSOCIATED EQUIPMENT, REF. MEP
07 RELOCATED SIGN-IN COMPUTER AND ASSOCIATED EQUIPMENT
08 RELOCATED MAILBOX / NEW MILLWORK BELOW
09 FURNITURE BY OWNER



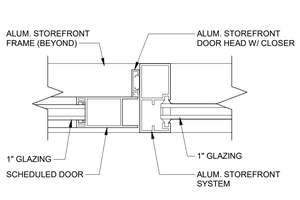
18 JAMB DETAIL @ H.M. CMU W/ GYP.
Scale: 1 1/2" = 1'-0"



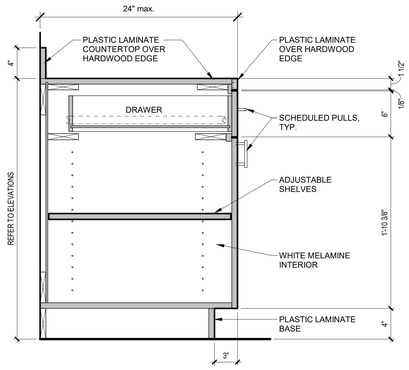
14 GLAZING MULLION DETAIL @ ALUM.
Scale: 3" = 1'-0"



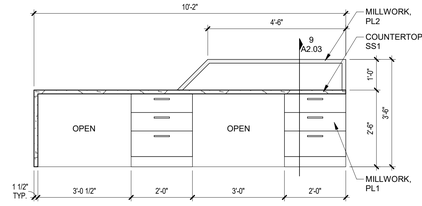
17 HEAD DETAIL @ H.M. CMU W/ GYP.
Scale: 1 1/2" = 1'-0"



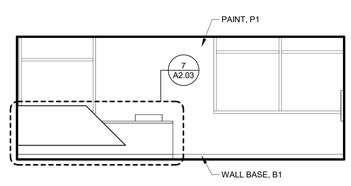
13 JAMB TRANSITION @ ALUM. DOOR
Scale: 3" = 1'-0"



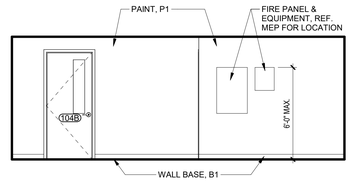
10 MILLWORK DETAIL
Scale: 1 1/2" = 1'-0"



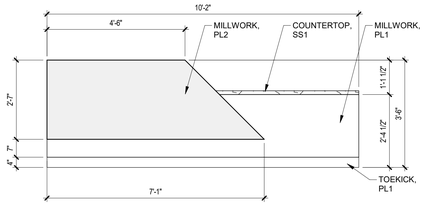
8 RECEPTION DESK BACK
Scale: 1/2" = 1'-0"



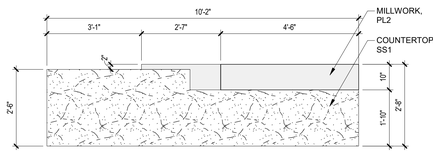
4 INTERIOR ELEVATION - SOUTH
Scale: 1/4" = 1'-0"



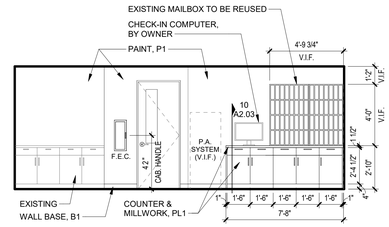
2 INTERIOR ELEVATION - NORTH
Scale: 1/4" = 1'-0"



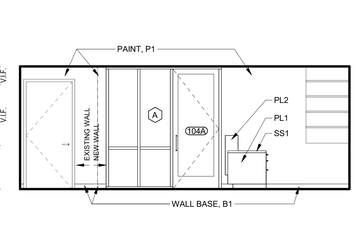
7 RECEPTION DESK FRONT
Scale: 1/2" = 1'-0"



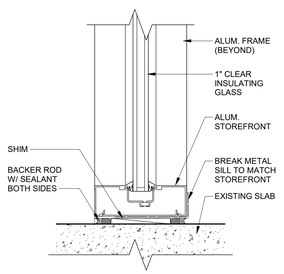
6 RECEPTION DESK BACK
Scale: 1/2" = 1'-0"



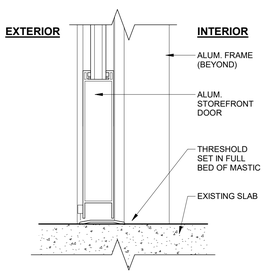
5 INTERIOR ELEVATION - WEST
Scale: 1/4" = 1'-0"



3 INTERIOR ELEVATION - EAST
Scale: 1/4" = 1'-0"

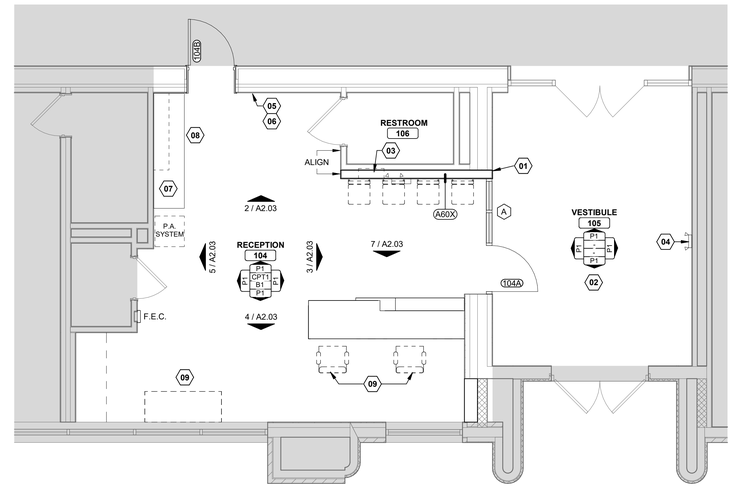


15 A23 GLAZING - HEAD SILL @ INT WALL
Scale: 3" = 1'-0"



11 SILL DETAIL @ ALUM. DOOR
Scale: 3" = 1'-0"

9 MILLWORK DETAIL
Scale: 1 1/2" = 1'-0"



1 ENLARGE PLAN
Scale: 1/4" = 1'-0"

TRUE NORTH
PLAN NORTH

ALLIANCE ARCHITECTS
30th ANNIVERSARY
1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
(972) 233-0400 AllianceArch.com

09/18/2024

DALLAS ISD BOND2020 OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

ORG 207 DISD SAN JACINTO ELEMENTARY

7900 Hume Dr, Dallas, TX 75227

ENLARGED PLANS, DOOR SCHEDULES, DETAILS, & FINISHES

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD
08/16/24	95% CD
09/09/24	100% CD
09/18/24	BID SET

A2.03

PROJECT NO.: 2023209

S T R U C T U R A L N O T E S

COORDINATION

A. The contractor shall compare the architectural, structural, mechanical, electrical, plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.

B. Only larger sleeve openings and framed openings in structural framing component members are indicated on the structural drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to mechanical, electrical and plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the structural drawings, but required as noted above, shall be submitted to the engineer for review.

C. Refer to architectural, mechanical, electrical and plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.

D. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the submittals.

E. The details designated as "typical details" apply generally to the structural drawings in all areas where conditions are similar to those described in the details.

F. All dimensions and conditions of existing construction shall be verified at the job site prior to the preparation of shop drawings. Differences between existing construction and that shown on the structural drawings shall be referred to the architect. Differences shall also be clouded on the shop drawings.

G. All structural elements of the project have been designed by the engineer to resist the required code vertical and lateral forces that could occur in the final completed structure only. 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 the structure is completely tied together. Temporary supports shall not result in the overstress or damage of the elements to be braced nor any elements used as brace supports.

H. The contract structural drawings and specifications represent the finished structure, and except where specifically shown, do not indicate the means or methods of construction. The contractor and their sub-contractors shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherences to all osha guidelines. The engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors, or any other person performing any of the work, or for the failure of any of these persons to carry out the work in accordance with the structural contract documents.

I. Where conflict exists among the various parts of the structural contract documents, structural drawings, general notes, and specifications, the strictest requirements, as indicated by the engineer, shall govern.

J. Periodic site observation by field representatives of JQ is solely for the purpose of determining if the work is proceeding in accordance with the structural contract documents. This limited site observation is not intended to be a check of the quality or quantity of the work, but rather a periodic check in an effort to inform the owner against defects and deficiencies in the work of the contractor.

SUBSTITUTIONS

A. All requests for substitutions of materials or details shown in the Structural Contract Documents shall be submitted for approval during the bidding period.

B. Once bids are accepted, proposed substitutions will be considered only when they are officially submitted with an identified savings or duration to be deducted from the contract and/or schedule impact. Submittals not satisfying the above criteria will not be considered.

CODES & REFERENCED REPORTS

A. The General Building Code used as the basis for the structural design is as follows:
1. City of Dallas Building Code (2021 International Building Code with City of Dallas Amendments)
2. International Existing Building Code, 2021 Edition with City of Dallas Amendments

B. Structural Concrete: Building Code Requirements for Reinforced Concrete, American Concrete Institute, ACI 318, as referenced by the General Building Code.

C. Structural Steel: Manual of Steel Construction, American Institute of Steel Construction Inc., ANSI/AISC 360, as referenced by the General Building Code.

D. Energy Performance and Sustainable School Design TX (CHPS): Texas Criteria from the Collaborative for High Performance Schools (TX-CHPS)

E. Geotechnical Report: Foundation elements have been designed in accordance with information provided in the following geotechnical report:

Geotechnical engineer:	Alliance Geotechnical Group
Report Number:	DE24-080
Date:	07.18.24

DESIGN LOADS

A. Wind loads
1. Wind lateral load on structural frame is based on ASCE 7-16 using the following:

a.	Ultimate Design Wind Speed Vult	111 mph
b.	Nominal Design Wind Speed Vasd	86 mph
c.	Exposure	C
d.	Internal Pressure Coefficient, Gcpi	+/-0.18
e.	Risk Category	III

SUBMITTALS

A. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be clouded.

B. Contractor shall review shop drawings for compliance with the Structural Drawings and shall certify that they have done so by a stamp noting that the drawings have been "Approved" and which bears the signature (or initials) of an authorized representative of the Contractor and the date. Submittals which do not reflect the Contractor's approval, signature and date will be returned without review.

C. Contractor shall be responsible for delays caused by rejection of inadequate shop drawings.

D. Where review and return of shop drawings is required or requested, the Engineer will review each submittal and, where possible, return within two (2) weeks of receipt.

E. Corrections or comments on shop drawings or manufacturer's data sheets do not relieve the Contractor from compliance with requirements of the plans and specifications. Engineer's review is for general conformance with the requirements of the Structural Drawings. Contractor is responsible for confirming and correcting all quantities and dimensions, selecting fabrication processes and techniques of construction, and coordinating the work with that of all other contractors.

F. Refer to individual sections for specific submittal requirements.

G. Contractor shall submit one reproducible copy and three maximum copies. Engineer will review, comment and retain one copy of each submittal and transfer comments onto the remaining copies for distribution to the Architect, Owner, and Contractor. Additional copies submitted will not have comments transferred to them. Alternatively, submittals may be submitted electronically. Contractor will be responsible for providing and distributing Engineer's comments to their subcontractors.

DRILLED PIERS

A. Pier design is based on the following design criteria:

1.	Allowable end bearing:	50,000 PSF
2.	Side friction:	6,500 PSF
3.	Uplift side friction:	2,500 PSF
4.	Uplift design depth:	8 FT
5.	Side friction (uplift resistance):	3,250 PSF
6.	Minimum penetration into bearing stratum:	2 FT

B. Pier design is in accordance with the recommendations in the referenced geotechnical report.

C. Bearing stratum shown on the pier details is very hard gray unweathered limestone.

D. Piers not specifically located on the plan shall be located on centerline of column above. Where no column occurs, locate on centerline of wall or beam.

E. Provide dowels from piers into concrete above using same bar size and number as shown for pilaster above. Where no pilaster occurs, use dowels of same size and number as pier reinforcing steel. Extend dowels 30 bar diameters into pier and beam, wall, pilaster or column, unless noted otherwise on the Structural Drawings.

F. Elevation of top of piers, unless noted otherwise on the Structural Drawings, is at the bottom of the deepest intersecting beam or wall supported by the pier.

G. Reinforcing cage shall be held securely away from earth at sides and bottom by sets of 3 spacers at a maximum spacing of 8 ft. along the length of the cage and 1'-0" from the bottom.

H. Pier reinforcing and concrete shall be placed immediately after drilling operations are complete; in no case shall a pier be drilled that cannot be placed by the end of the workday.

I. See plans for pier sizes, reinforcing and depth.

J. The contractor shall verify depths of piers before pier steel is cut. Pier steel may be delivered to the jobsite in standard lengths and cut as required. Provide 64 bar diameter laps in all vertical pier reinforcing.

K. Reinforcing steel shop drawings shall include placing drawings for templates to set dowels in piers.

L. Top of pier shall be of the specified diameter. Form top of pier if required to maintain the specified diameter. Any concrete extending beyond the specified diameter shall be removed.

M. Temporary steel casing may be required during pier drilling operations. Prior to the placement of concrete, any seepage water shall be removed from the pier holes. Special construction procedures in accordance with ACI 336.1 and ACI 336.3R and specifications shall be followed during extraction of the casing and during concrete placement.

N. Contractor shall include in bid documents, unit-costs for casing if required and unit-cost for greater and lesser depth of drilling for each pier size.

O. All piers shall be inspected by a representative of a qualified geotechnical laboratory in order to ensure that the proposed bearing material has been reached in accordance with the recommendations given in the geotechnical report.

P. The contractor shall make and maintain accurate records of the drilled pier depths, bearing stratum, depth of penetration into bearing stratum, diameter and location (including off center eccentricities), and shall submit this information to the Engineer.

CAST-IN-PLACE CONCRETE

A. CONCRETE MIX USAGE SCHEDULE:
All concrete shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings:

Use	Strength psi	Agg. Type	Agg. Size	Max w/c	Exposure Class
Drilled Piers	3000	NWT	1-1/2"	----	F0
Grade Beams	4500	NWT	1"	0.45	F2

1. "NWT" refers to normal concrete having air dry unit weight of approximately 145 PCF (ASCE C33 aggregate)
2. The w/c ratio shall be selected by the concrete provider to meet the strength requirements and shall not exceed w/c ratio = 0.55. Where the maximum w/c ratio is indicated in the table above, it shall not be exceeded.
3. "Strength" is required compressive cylinder strength at an age of 28 days.
4. Concrete slump for all floor slabs shall be between 4" - 6" slump.
5. Concrete slump shall be selected by concrete provider to meet strength requirements and workability required for the concrete placement. Slump shall not exceed 9" for any mix and meet the requirements of the ACI.

B. A maximum of 20% of the cementitious materials used in mix designs may be replaced with class C or F fly ash.

C. Provide 6 percent plus or minus 1 1/2 percent of entrained air in concrete permanently exposed to the weather and elsewhere at the contractor's option.

D. Horizontal construction joints in concrete placements shall be permitted only where indicated on the Structural Drawings. All vertical construction joints shall be made in the center of spans in accordance with the typical details. Contractor shall submit proposed locations for construction joints not shown on the Structural Drawings for review by the Architect and Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional cost to the owner.

E. Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 318, Section 26.8, including the following:
1. Conduits and pipes embedded within a slab, wall, or beam (other than those passing through) shall not be larger in outside dimension than 1/3 the overall thickness of the slab, wall or beam in which they are embedded.
2. Conduits, pipes and sleeves shall not be spaced closer than three diameters or widths on center.

F. Concrete placements shall not exceed 10,000 square feet or 100 linear feet on each side without prior approval by the Architect for each placement.

G. Submittal: Submit proposed mix designs in accordance with ACI 301, chapter 4.2. Each proposed mix design shall be accompanied by a record of past performance based on at least 30 consecutive strength tests, or by three laboratory trial mixtures with confirmation tests.

H. Concrete sampling for quality assurance: Concrete that is pumped shall be sampled at the point of discharge from the truck for information, including slump; and shall be sampled at the point of placement for acceptance of slump and air content.

CONCRETE REINFORCING

A. Concrete reinforcement for the project shall conform to the following:
1. All reinforcing steel shall be new billet steel in accordance ASTM A615, Grade 60, unless noted otherwise in the Structural Drawings or these notes.

B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards, unless noted otherwise on the Structural Drawings.

C. Welding of reinforcing steel will not be permitted unless specifically shown on the Structural Drawings.

D. Heat shall not be used in the fabrication or installation of reinforcement.

E. Reinforcing steel clear cover shall be as follows:

1.	Drilled Piers	3"
2.	Formed grade beams	1 1/2" top, 2" sides, 3" bottom

F. Submittal: Submit shop drawings for fabrication, bending, and placement of concrete reinforcement. Comply with ACI 315 "Details and Detailing of Concrete Reinforcement". Do not reproduce the Structural Drawings for use as shop drawings.

STRUCTURAL MASONRY

A. Minimum compressive strength of the masonry (f'm) shall be as noted below.

B. Mortar shall conform to ASTM C270, Type S. Masonry cement shall not be used.

C. Concrete masonry units shall be hollow load bearing units which conform to ASTM C90, with a minimum net compressive strength as follows:

Location	f'm (psi)	Net area Compressive Strength of CMU Block (psi)
Typical	2,000	2,000

D. Coarse grout shall conform to ASTM C476 and placed in accordance with TMS 420 Section 3.2.1 and TMS 620 Section 3.5, with a maximum aggregate size of 1/2" and a minimum compressive strength as follows:

Location	Compressive Strength (psi)
Typical	2,000

E. Chases shall be built in and not cut in. Chases shall be plumb and shall be minimum one unit length from jambs of openings. Anchors, wall plugs, accessories and other items to be built in shall be installed as the masonry work progresses. All cutting and fitting of masonry, including that required to accommodate the work of other sections shall be done by masons with masonry saws.

F. Reinforce concrete masonry unit joints with ladder type hot dip galvanized cold-drawn steel conforming to ANSI/ASTM A82, with W1.7 side rods with W1.7 cross rods.

1. Space joint reinforcing at 16 inches o.c. unless noted otherwise.
2. Lap joint reinforcing 14 inches at splices.
3. Provide prefabricated joint reinforcing corner pieces at all wall corners and intersections.
4. Joint reinforcing shall be discontinuous at control and expansion joints.

G. Lap reinforcing bars in grouted masonry as noted below.

	Single Bar Per Cell	Two Bars Per Cell
1. Vertical bars:		
#5 or smaller rebar	35 bar diameters	72 bar diameters
#6 rebar	56 bar diameters	72 bar diameters
#7 or larger rebar	68 bar diameters	Mechanical splices only
2. Bond beams:	72 bar diameters	72 bar diameters
3. Lintels:	Do not splice	Do not splice

H. Embedded conduits, pipes, and sleeves shall meet the requirements of TMS 420, Section 3.2.2, including the following:
1. Conduits, pipes, and sleeves in masonry shall be no closer than 3 diameters on center. Minimum spacing of conduits, pipes or sleeves of different diameters shall be determined using the larger diameter.
2. Vertical conduits, pipes, or sleeves placed in masonry jambs, columns or pilasters shall not displace more than 2 percent of the net cross-sectional area.
   a. The net cross-sectional area is the area of masonry units, grout, and mortar. Ungrouted cells are not considered part of the net cross-sectional area.

I. Provide 1 inch clear cover between ties or longitudinal reinforcing and the inside face of masonry used as forms in grouted beams, pilasters and columns.

DESIGN BY OTHERS

A. In accordance with the Specifications the items listed below are not included in the Contract Documents. Design of these elements shall be the responsibility of the Contractor, and shall be designed and sealed by a registered professional engineer licensed in the state having jurisdiction at the project site.
1. Steel Connections
2. Embedded assemblies and inserts, clamps, hangers, trapezes, unistrut, etc. for the support of MEP systems.
3. Embedded assemblies, inserts, and/or hangers for fire suppression systems.
4. Excavation Support and Protection
5. Marquee Sign - Steel Framing and Anchorage/Connections to Foundation

B. Design of the items listed above shall be in accordance with the General Building Code, and shall include all attachments to the structure.

STRUCTURAL STEEL

A. Material
1. All hot rolled steel members shall be new and conform to ASTM specification A6.
2. ASTM Specification and Grade - clearly mark the grade on each member.
3. Unless Noted otherwise on the Structural Drawings, structural steel members shall be:
   a. Steel pipe shall conform to ASTM A53, Type E or S, Grade B.
   b. Round hollow structural shape members shall conform to ASTM A500, Grade C, Fy = 46 ksi.
   c. Structural steel plate shall conform to ASTM A36.
   d. Any other steel shall conform to ASTM A36.
   e. Headed stud shear connectors shall conform to ASTM A108.

B. Fabrication
1. Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having splice not shown and detailed on shop drawings will be rejected.
2. Dimensional tolerances of fabricated structural steel shall conform to Section 6.4 of the AISC Code of Standard Practice unless noted otherwise on the Structural Drawings.
3. Shop painting: Paint structural steel with one coat of manufacturer's standard red oxide primer applied at a rate to provide a uniform dry film thickness of 2.5 mils.

C. Erection
1. Erection tolerances of anchor bolts, embedded items, and all structural steel unless specified otherwise on the Structural Drawings shall conform to the AISC Code of Standard Practice.
2. Field cutting of structural steel or any field modifications to structural steel shall not be made without prior approval of the Engineer.
3. Contractor shall protect any unprimed structural steel from detrimental effects of corrosion, as required, until the steel is enclosed and protected by the new construction.
4. For any exposed steel not covered by architectural paint specifications, hot dip galvanize after fabrication all structural steel items and connections permanently exposed to the weather, whether specified on the Structural Drawings or not. Such items include, but are not limited to:
   a. All embedded plates in concrete
   b. Examine the Architectural and Structural Drawings for other items required to be hot dipped galvanized. Galvanize all nuts, bolts, and washers used in connection with such steel. Field welded connections shall have welds protected with "Z.R.C. Cold Galvanizing Compound" as manufactured by Z.R.C. Company.

D. Contractor shall coordinate structural steel fireproofing requirements. All interior structural steel, including steel joists, scheduled or indicated to receive spray applied fireproofing shall be delivered to the project site unprimed. Steel exposed to corrosive conditions after installation shall be primed with a protective coating which does not diminish the bond between the spray applied fireproofing, and the steel substrate. Any primer, and/or coating applied to structural steel shall be approved for use in the applicable U.L. Fire Resistance Assembly used on the project.

E. Submittal: Provide drawings showing details for fabrication and shop assembly of members, erection plans and details. Include details of connections, camber, weld profiles and sizes and spacing. Shop and erection drawings shall not be made using reproductions of the Structural Drawings.

F. Submittal for Information:
1. Submit recycled content percentage (minimum 67%) for each type of product/shape indicated. Provide documentation for CHPS credit.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
PIER TYPE, T.O.PIER EL T.O.PIER DETAIL	CONCRETE PIER
	EXISTING CONSTRUCTION

ABBREVIATIONS

ABV.	-	ABOVE
A.F.F.	-	ABOVE FINISHED FLOOR
ADDN'L.	-	ADDITIONAL
ADH.	-	ADHESIVE
ADJ.	-	ADJACENT
AGGR.	-	AGGREGATE
A/C	-	AIR CONDITIONER
AHU	-	AIR HANDLING UNIT
ALT.	-	ALTERNATE
ALUM.	-	ALUMINUM
A.C.I.	-	AMERICAN CONCRETE INSTITUTE
A.I.S.C.	-	AMERICAN INSTITUE OF STEEL CONSTRUCTION
A.B.	-	ANCHOR BOLT
&	-	AND
L	-	ANGLE
APPD.	-	APPROVED
APPROX.	-	APPROXIMATE
ARCH.	-	ARCHITECT
ARCHTL	-	ARCHITECTURAL
A.E.C.	-	ARCHITECTURALLY EXPOSED CONCRETE
A.E.S.S.	-	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
@	-	AT
B.F.	-	BACK FACE
B. TO B.	-	BACK TO BACK
BSMT.	-	BASEMENT
BM.	-	BEAM
BRG.	-	BEARING
B.F.F.	-	BELOW FINISH FLOOR
BTWN.	-	BETWEEN
BEV('D)	-	BEVEL(ED)
BLK.	-	BLOCK
B.L.	-	BLOCK LINTEL
BLKG.	-	BLOCKING
BOT.	-	BOTTOM
B.O.	-	BOTTOM OF
B.O.S.	-	BOTTOM OF STEEL
BRKT.	-	BRACKET
BR.L.	-	BRICKLEDGE
BRDG.	-	BRIDGING
BLDG.	-	BUILDING
C	-	CAMBER
C.I.P.	-	CAST-IN-PLACE
CLG.	-	CELING
C.L.	-	CENTER LINE
C.G.	-	CENTER OF GRAVITY
C.G.S.	-	CENTER OF GRAVITY OR STRAND
CTR'D.	-	CENTERED
CLR.	-	CLEAR OR CLEARANCE
CFS	-	COLD FORMED STEEL
COL.	-	COLUMN
C OR COMP.	-	COMPRESSION
CONC.	-	CONCRETE
CMU	-	CONCRETE MASONRY UNIT
CONN(S)	-	CONNECTION(S)
CONST.	-	CONSTRUCTION
CONST. JT.	-	CONSTRUCTION JOINT
CONT.	-	CONTINUOUS
CONTR.	-	CONTRACTOR
C.J.	-	CONTROL JOINT
COORD.	-	COORDINATE
COV. PL.	-	COVER PLATE
D.L.	-	DEAD LOAD
D.B.A.	-	DEFORMED BAR ANCHOR
D.	-	DEPTH
DTL.	-	DETAIL
DIAG.	-	DIAGONAL
DIA OR Ø	-	DIAMETER
DIM(S).	-	DIMENSION(S)
DBL.	-	DOUBLE
XX-STR	-	DOUBLE EXTRA STRONG
DVTL.	-	DOVETAIL
DWL(S).	-	DOWEL(S)
DN.	-	DOWN
DS.	-	DOWNSPOUT
DWG(S).	-	DRAWING(S)
EA.	-	EACH
E.F.	-	EACH FACE
E.W.	-	EACH WAY
E.O.D.	-	EDGE OF DECK
ELEC.	-	ELECTRICAL
EL.	-	ELEVATION
ELEV.	-	ELEVATOR
EMBED.	-	EMBEDMENT
ENGR.	-	ENGINEER
EQ.	-	EQUAL
EQUIP.	-	EQUIPMENT
EF	-	EXHAUST FAN
(E)	-	EXIST.
EXIST.	-	EXISTING
EXP.	-	EXPANSION
E.J.	-	EXPANSION JOINT
EXT.	-	EXTERIOR
X-STR	-	EXTRA STRONG
FABR.	-	FABRICATOR
F. TO F.	-	FACE TO FACE
F.S.	-	FAR SIDE
F.V.	-	FIELD VERIFY
FIN('D)	-	FINISH(ED)
FIN. FL.	-	FINISHED FLOOR
FP.	-	FIREPROOF(ING)
FLG.	-	FLANGE
FL.	-	FLOOR
F.D.	-	FLOOR DRAIN
FT.	-	FOOT (OR) FEET
FDN.	-	FOUNDATION
FRMG	-	FRAMING
F.P.	-	FULL PENETRATION
GA.	-	GAGE OR GAUGE
GALV.	-	GALVANIZED
G.C.	-	GENERAL CONTRACTOR
GR.	-	GRADE
GR. BM.	-	GRADE BEAM
H.S.A.	-	HEADED STUD ANCHOR
HT.	-	HEIGHT
H.P.	-	HIGH POINT
HSS	-	HOLLOW STRUCTURAL SECTION
HK.	-	HOOK
HORIZ.	-	HORIZONTAL
H.B.	-	HORIZONTAL BRACE
H.D.	-	HOT-DIP
IN.	-	INCH
INFO.	-	INFORMATION
I.D.	-	INSIDE DIAMETER
I.F.	-	INSIDE FACE
INT.	-	INTERIOR
INTERM.	-	INTERMEDIATE
JT.	-	JOINT
J.G.	-	JOIST GIRDER
JST(S)	-	JOIST(S)
KLF	-	KIP PER LINEAR FOOT
KSF	-	KIP PER SQUARE FOOT
KSI	-	KIP PER SQUARE INCH
K	-	KIPS (1000 LBS)
L.	-	LENGTH
L.W.	-	LIGHTWEIGHT
L.W.C.	-	LIGHTWEIGHT CONCRETE
L.L.	-	LIVE LOAD
LOC.	-	LOCATION
LLH	-	LONG LEG HORIZONTAL
LLV	-	LONG LEG VERTICAL
LSH	-	LONG SIDE HORIZONTAL
LSV	-	LONG SIDE VERTICAL
LSL	-	LONG SLOTTED HOLE
LONG	-	LONGITUDINAL
L.P.	-	LOW POINT
MFR.	-	MANUFACTURE(R)
MAS.	-	MASONRY
MAT.	-	MATERIAL
MAX.	-	MAXIMUM
MECH.	-	MECHANICAL
MEP	-	MECHANICAL, ELECTRICAL, PLUMBING
MTL.	-	METAL
MEZZ.	-	MEZZANINE
MID.	-	MIDDLE
MIN.	-	MINIMUM
MISC.	-	MISCELLANEOUS
M	-	MOMENT
M.C.	-	MOMENT CONNECTION(S)
N.F.	-	NEAR FACE
NOM.	-	NOMINAL
N.S.	-	NON-SHRINK
N/A	-	NOT APPLICABLE
N.I.C.	-	NOT IN CONTRACT
N.T.S.	-	NOT TO SCALE
NO. OR #	-	NUMBER
O.C.	-	ON CENTER
OPNG(S)	-	OPENING(S)
OPP.	-	OPPOSITE
O.H.	-	OPPOSITE HAND
O.D.	-	OUTSIDE DIAMATER
O.F.	-	OUTSIDE FACE
OVS	-	OVER-SIZED HOLE
P	-	PAN
P.J.	-	PANEL JOINT
PAR.	-	PARALLEL
PERP.	-	PERPENDICULAR
PC.	-	PIECE
PL.	-	PLATE
PT.	-	POINT
P-T	-	POST-TENSION(ED)
# OR LBS.	-	POUNDS
PCF	-	POUNDS PER CUBIC FOOT
PLF	-	POUNDS PER LINEAR FOOT
PSF	-	POUNDS PER SQUARE FOOT
PSI	-	POUNDS PER SQUARE INCH
P.E.M.B.	-	PRE-ENGINEERED METAL BUILDING
P/C	-	PRECAST CONCRETE
PREFAB.	-	PREFABRICATED
PRELIM.	-	PRELIMINARY
P.T.	-	PRESSURE TREATED
PROJ.	-	PROJECTION
QTY.	-	QUANTITY
R	-	RADIUS
REINF.	-	REINFORCE(ING)(ED)(MENT)
RCP	-	REINFORCED CONCRETE PIPE
REM.	-	REMAINDER
REQ.	-	REQUIRE
REQ'D.	-	REQUIRED
RET. SYS.	-	RETENTION SYSTEM
RIS.	-	RISER
RF.	-	ROOF
R.D.	-	ROOF DRAIN
R.T.U.	-	ROOF TOP UNIT
RM.	-	ROOM
R.O.	-	ROUGH OPENING
RND.	-	ROUND
SCHED.	-	SCHEDULE(D)
SECT.	-	SECTION
V	-	SHEAR
SHT.	-	SHEET
SSL	-	SHORT SLOTTED HOLE
SW	-	SIDEWALK
SIM.	-	SIMILAR
S.O.G.	-	SLAB ON GRADE
SPA.	-	SPACE
SPEC(S)	-	SPECIFICATION(S)
SPEC'D	-	SPECIFIED
SQ.	-	SQUARE
S.F.	-	SQUARE FOOT
STAGG.	-	STAGGERED
S.S.	-	STAINLESS STEEL
STD.	-	STANDARD
STL.	-	STEEL
S.J.I.	-	STEEL JOIST INSTITUE
STIFF	-	STIFFENER
STIRR.	-	STIRRUPS
STR.	-	STRAIGHT
STRUCT'L	-	STRUCTURAL
STRUCT.	-	STRUCTURE
SUBCONTR.	-	SUBCONTRACTOR
SUPT(S).	-	SUPPORT(S)
TEMP.	-	TEMPERATURE
T	-	TENSION
TERR.	-	TERRAZZO
THK.	-	THICK
THRD.	-	THREAD(ED)
T&G	-	TONGUE AND GROOVE
T&B	-	TOP AND BOTTOM
T.O.	-	TOP OF
T.O.B.	-	TOP OF BEAM
T.O.C.	-	TOP OF CONCRETE
T.O.F.	-	TOP OF FOOTING
T.O.J.	-	TOP OF JOIST
T.O.P.	-	TOP OF PIER
T.O.P.C.	-	TOP OF PIER (PILE) CAP
T.O.S.	-	TOP OF STEEL
T.O.W.	-	TOP OF WALL
TRANSV.	-	TRANSVERSE
TR.	-	TREAD
TYP.	-	TYPICAL
U.N.O.	-	UNLESS NOTED OTHERWISE
VERT.	-	VERTICAL
V.B.	-	VERTICAL BRACE
WPFG.	-	WATERPROOFING
WS.	-	WATERSTOP
WT.	-	WEIGHT
W.W.M.	-	WELDED WIRE MESH
W.	-	WIDTH
W.L.	-	WIND LOAD
WDW.	-	WINDOW
W/	-	WITH
W/O	-	WITHOUT
W.D.	-	WOOD
W.P.	-	WORK POINT

9/18/2024

shaping the built environment
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OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

ORG 207 DISD SAN JACINTO ELEMENTARY

7900 Hume Dr, Dallas, TX 75227

STRUCTURAL NOTES

DRAWING RECORD	
DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/15/24	95% CD PHASE
09/09/24	100% CD PHASE
09/18/24	BID SET

S1.01

PROJECT NO.: 2023209

SPECIAL INSPECTIONS

1. Special Inspections shall be performed in accordance with Chapter 17 of the 2021 International Building Code (IBC) by a Special Inspector hired by the Owner to perform the Special Inspections listed below. The Special Inspector shall be qualified by an approved agency according to the City's building official to perform the special inspections for which they will be undertaking. The Contractor shall coordinate with and notify the Special Inspector of all tests. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection reports to the building official and the Architect for all time spent at the site. The Inspector shall bring discrepancies to the immediate attention of the General Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the Architect prior to the completion of that phase of the work. These special inspections are in addition to the other inspections listed in these Structural Notes or Project Specifications.

2. Where structural load-bearing members and assemblies are shop fabricated, the Special Inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to the Construction Documents and Referenced Standards, unless the fabricator is registered and approved to perform such work without special inspection.

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (IBC TABLE 1705.3)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. Inspect reinforcement, including prestressing tendons, and verify placement.	--	X	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	--
	2. Reinforcing bar welding:				
YES	a. Verify weldability of reinforcing bars other than ASTM A706	--	X[1]	AWS D1.4 ACI 318: 26.6.4	--
YES	b. Inspect single-pass fillet welds, maximum 5/16"	--	X		
YES	c. Inspect all other welds.	X[1]	--		
YES	3. Inspect anchors and dowels cast in concrete.	--	X[1]	ACI 318: 17.8.2	--
	4. Inspect post-installed anchors and dowels in hardened concrete.				
YES	a. Mechanical anchors and adhesive anchors and dowels installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X[2]	--	ACI 318: 17.8.2.4	--
YES	b. Mechanical anchors and adhesive anchors and dowels not defined in 4.a.	--	X[2]	ACI 318: 17.8.2	
YES	5. Verify use of required design mix.	--	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2
YES	6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X[3]	--	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	--
YES	7. Inspect concrete and shotcrete placement for proper application techniques.	X	--	ACI 318: 26.5	--
YES	8. Verify maintenance of specified curing temperature and techniques.	--	X	ACI 318: 26.5.3-26.5.5	--
	9. Inspection of prestressed concrete:				
NO	a. Application of prestressing forces	X	--	ACI 318: 26.10	--
NO	b. Grouting of bonded prestressing tendons	X	--	ACI 318: 26.10	
NO	10. Inspect erection of precast concrete members.	--	X	ACI 318: 26.9	--
	11. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category C, D, E or F, inspect such connections and reinforcement in the field for:				
NO	a. Installation of the embedded parts	X	--	ACI 318: 26.13.1.3	--
NO	b. Completion of the continuity of reinforcement across joints.	X	--	ACI 550.5	
NO	c. Completion of connections in the field.	X	--		
NO	12. Inspect installation tolerances of precast concrete diaphragm for compliance with ACI 550.5.	--	X	ACI 318: 26.13.1.3	--
NO	13. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	--	X[3]	ACI 318: 26.11.2	--
YES	14. Inspect formwork for shape, location and dimensions of the concrete member being formed.	--	X	ACI 318: 26.11.1.2(b)	--

1. Special Inspections of welding and qualifications of special inspectors for reinforcing bars shall be in accordance with the requirements of AWS D1.4 for special inspection and AWS D1.4 for special inspector qualification.

2. Post-Installed anchors and dowels shall be either (a.) visually inspected during installation, or (b.) load tested after installation as noted below:
   a. Visual inspections shall be performed during the installation by a Special Inspector certified by ACI as a "Post-Installed Concrete Anchor Installation Inspector". Submit a report to the licensed design professional and building official documenting that the work covered by the report has been performed and that the materials used and the installation procedures used conform with the approved construction documents and the Manufacturer's Printed Installation Instructions.
   b. Load Testing shall comply with the following:
      i. Test at least ten (10) percent of each type and diameter of post-installed anchors. If one or more anchors fail the test, all post-installed anchors of the same diameter and type installed the same day as the failed anchor shall be load tested at the contractor's expense. If additional anchors fail, the engineer may require testing all anchors of the same diameter and type already installed at the contractor's expense.
      ii. Tension testing shall comply with ASTM E488
      iii. Test post-installed anchors to 50 percent of ultimate tensile capacity of post-installed anchor.
      iv. Apply test loads with a calibrated hydraulic ram.
      v. Displacement of post-installed anchors shall not exceed D/10, where D is nominal diameter of anchor being tested.
      vi. Correct defective work by removing and replacing or correcting, as directed by engineer.
      vii. Contractor shall pay for all corrections, engineering, and additional testing associated with failed anchor tests.
      viii. Testing agency shall submit test results to contractor and engineer with 24 hours of completion of test.

3. In the absence of sufficient data or documentation providing evidence of conformance to quality standards for materials in Chapters 19 and 20 of ACI 318, the building official shall require testing of materials in accordance with the appropriate standard and criteria for the material in Chapters 19 and 20 of ACI 318.

VERIFICATION AND INSPECTION OF SOILS (IBC TABLE 1705.6)

SPECIAL INSPECTION REQUIRED	VERIFICATION, INSPECTION AND TESTING	INSPECTION FREQUENCY	
		CONTINUOUS	PERIODIC
YES	1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	--	X
YES	2. Verify excavations are extended to proper depth and have reached proper material.	--	X
YES	3. Perform classification and testing of compacted fill materials.	--	X
YES	4. During fill placement, verify use of proper materials and procedures in accordance with the provisions of the approved geotechniical report. Verify densities and lift thicknesses during placement and compaction of compacted fill.	X	--
YES	5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	--	X

VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS (IBC TABLE 1705.8)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY	
		CONTINUOUS	PERIODIC
YES	1. Inspect drilling operations and maintain complete and accurate records for each element.	X	--
YES	2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or grout volumes.	X	--
YES	3. For concrete elements, perform additional inspections in accordance with IBC Section 1705.3 and the concrete special inspection table.	--	--

1. Whenever there is a reasonable doubt as to the structural integrity of a deep foundation element, an engineering assessment shall be required. The engineering assessment shall include tests for defects performed in accordance with ASTM D4945, ASTM D5822, ASTM D6760 or ASTM D7949, or other approved method.

LEVEL 2 VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION (TMS 602-16 Table 3 & Table 4)

SPECIAL INSPECTION REQUIRED	VERIFICATION, INSPECTION AND TESTING	INSPECTION FREQUENCY		REFERENCE FOR CRITERIA
		CONTINUOUS	PERIODIC	
	MINIMUM TESTS			
YES	Prior to construction, verification of compliance of submittals.	--	--	TMS 602-16 Art. 1.5
YES	Prior to construction, verification of f'm and f'AAC, except where specifically exempted by the code.	--	--	TMS 602-16 Art. 1.4 b
YES	During construction, verification of slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered tot the project site.	--	--	TMS 602-16 Art. 1.5 &1.6.3
	INSPECTION TASKS			
	1. As masonry construction begins, verify that the following are in compliance:			
YES	a. Proportions of site-prepared mortar	--	X	TMS 602-16 Art. 2.1, 2.6 A, & 2.6 C
NO	b. Grade and size of prestressing tendons and anchorages	--	X	TMS 602-16 Art. 2.4 B & 2.4 H
YES	c. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages	--	X	TMS 602-16 Art. 3.4 & 3.6 A
NO	d. Prestressing technique	--	X	TMS 602-16 Art. 3.6 B
NO	e. Properties of thin-bed mortar for AAC masonry	X[1]	X[2]	TMS 602-16 Art. 2.1 C.1
YES	f. Sample panel construction	--	X	TMS 602-16 Art. 1.6 D
	2. Prior to grouting, verify that the following are in compliance:			
YES	a. Grout space	--	X	TMS 602-16 Art. 3.2 D & 3.2 F
NO	b. Placement of prestressing tendons and anchorages	--	X	TMS 602-16 Art. 2.4 & 3.6, TMS 402-16 Sec. 10.8 & 10.9
YES	c. Placement of reinforcement, connectors, and anchor bolts	--	X	TMS 602-16 Art. 3.2 E & 3.4, TMS 402-16 Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7
YES	d. Proportions of site-prepared grout and prestressing grout for bonded tendons	--	X	TMS 602-16 Art. 2.6 B & 2.4 G.1.b
	3. Verify compliance of the following during construction:			
YES	a. Materials and procedures with the approved submittals	--	X	TMS 602-16 Art. 1.5
YES	b. Placement of masonry units and mortar joint construction	--	X	TMS 602-16 Art. 3.3 B
YES	c. Size and location of structural members	--	X	TMS 602-16 Art. 3.3 F
YES	d. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	--	X	TMS 402-16 Sec. 1.2.1 (e), 6.2.1, & 6.3.1
YES	e. Welding of reinforcement	X	--	TMS 402-16 Sec. 6.1.6.1.2
YES	f. Preparation, construction and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C))	--	X	TMS 602-16 Art. 1.8 C & 1.8 D
NO	g. Application and measurement of prestressing force	X	--	TMS 602-16 Art. 3.6 B
NO	h. Placement of grout and prestressing grout for bonded tendons is in compliance	X	--	TMS 602-16 Art. 3.5 & 3.6 C
NO	i. Placement of AAC masonry units and construction of thin-bed mortar joints	X[1]	X[2]	TMS 602-16 Art. 3.3 B.9 & 3.3 F.1.b
YES	4. Observe preparation of grout specimens, mortar specimens and/or prisms	--	X	TMS 602-16 Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4
	5. Inspect post-installed anchors and dowels in masonry			
YES	a. Mechanical anchors and adhesive anchors and dowels installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X[3]	--	Manufacturer's specifications & printed installation instructions
YES	b. Mechanical anchors and adhesive anchors and dowels not defined by 5 a.	--	X[3]	Manufacturer's specifications & printed installation instructions

1. Required for the first 5,000 square feet (465 square meters) of AAC masonry.

2. Required after the first 5,000 square feet (465 square meters) of AAC masonry.

3. Post-Installed anchors and dowels shall be either (a.) visually inspected during installation, or (b.) load tested after installation as noted below:
   a. Visual inspections shall be performed during the installation by a Special Inspector certified by ACI as a "Post-Installed Concrete Anchor Installation Inspector". Submit a report to the licensed design professional and building official documenting that the work covered by the report has been performed and that the materials used and the installation procedures used conform with the approved construction documents and the Manufacturer's Printed Installation Instructions.
   b. Load Testing shall comply with the following:
      i. Test at least ten (10) percent of each type and diameter of post-installed anchors. If one or more anchors fail the test, all post-installed anchors of the same diameter and type installed the same day as the failed anchor shall be load tested at the contractor's expense. If additional anchors fail, the engineer may require testing all anchors of the same diameter and type already installed at the contractor's expense.
      ii. Tension testing shall comply with ASTM E488
      iii. Test post-installed anchors to 50 percent of ultimate tensile capacity of post-installed anchor.
      iv. Apply test loads with a calibrated hydraulic ram.
      v. Displacement of post-installed anchors shall not exceed D/10, where D is nominal diameter of anchor being tested.
      vi. Correct defective work by removing and replacing or correcting, as directed by engineer.
      vii. Contractor shall pay for all corrections, engineering, and additional testing associated with failed anchor tests.
      viii. Testing agency shall submit test results to contractor and engineer with 24 hours of completion of test.

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SPECIAL INSPECTIONS

DRAWING RECORD

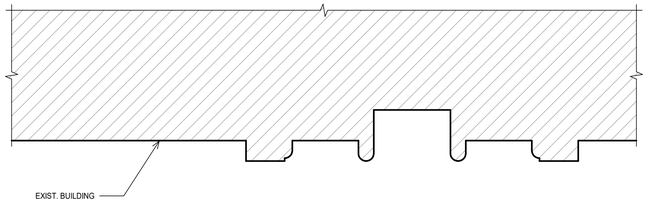
DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/15/24	95% CD PHASE
09/09/24	100% CD PHASE
09/18/24	BID SET

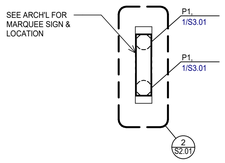
9/18/2024

shaping the built environment
JQ INFRASTRUCTURE, LLC
3017 WEST 7TH STREET, SUITE 400 FORT WORTH, TEXAS 76107
817.546.7200 JQENG.COM
PROJECT NO: 4240087 TBPE FIRM F-7986
STATE OF TEXAS DAVID A. WALKER 1.3.2006 LICENSED PROFESSIONAL ENGINEER

S1.02

PROJECT NO.: 2023209





north

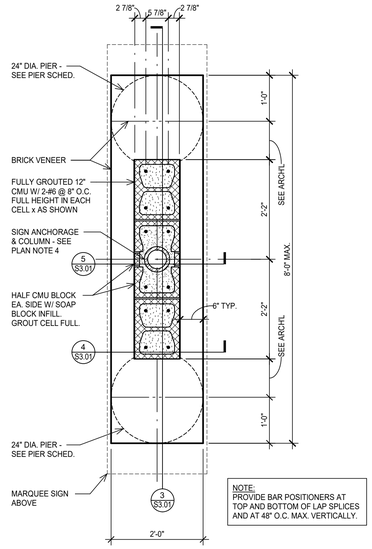
1 ENLARGED SITE PLAN - FRONT ENTRANCE

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. FOR ACTUAL GRADE ELEVATION SEE CIVIL DRAWINGS.
2. COORDINATE TOP OF PIER ELEVATION WITH ARCH'L.
3. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO DRILLING PIERS.

SHEET INDEX:
STRUCTURAL NOTES - S1.01, S1.02
TYPICAL CONCRETE DETAILS - S3.01



NOTE:
PROVIDE BAR POSITIONERS AT TOP AND BOTTOM OF LAP SPLICES AND AT 48" O.C. MAX. VERTICALLY.

north

2 SIGNAGE FOUNDATION PLAN

SCALE: 3/4" = 1'-0"

PLAN NOTES:

1. COORDINATE TOP OF PIER ELEVATIONS WITH FINAL GRADING PLAN. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATIONS, ORIENTATIONS AND DIMENSIONS
2. CENTERLINES OF PIERS NOT SPECIFICALLY LOCATED ON PLAN BY NOTE OR DIMENSION SHALL BE LOCATED AS FOLLOWS:
   A. SUPPORTING GRADEBEAMS AND WALLS: CENTERLINE OF GRADEBEAM OR WALL IN ONE DIRECTION. GRID OR AS NOTED IN OTHER DIRECTION. AT CORNER CONDITIONS: CENTERLINES OF GRADEBEAMS OR WALLS.
3. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO DRILLING PIERS.
4. "CAST-IN-PLACE" SIGN ANCHORAGE IS DELEGATED DESIGN BY OTHERS.

SHEET INDEX:
STRUCTURAL NOTES - S1.01, S1.02
DETAILS AND SECTIONS - S3.01
PIER SCHEDULE - S3.01

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MARQUEE SIGN FRAMING PLAN AND DETAILS

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/15/24	95% CD PHASE
09/09/24	100% CD PHASE
09/18/24	BID SET

9/18/2024

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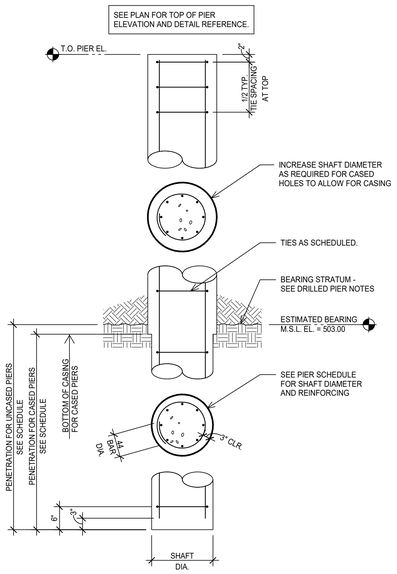
JQENG.COM
TBPE FIRM F-7986

STATE OF TEXAS DAVID A. WALKER 132006 LICENSED PROFESSIONAL ENGINEER

S2.01

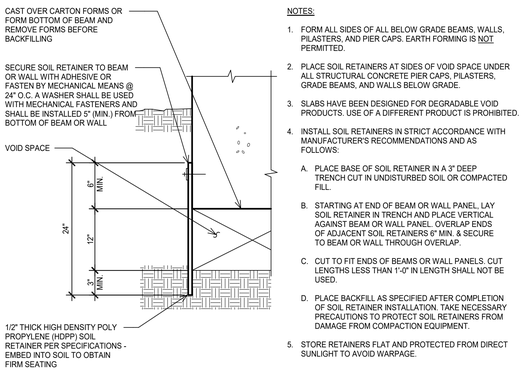
PROJECT NO.: 2023209



ELEVATION

PIER SCHEDULE					
MARK	SHAFT DIAMETER	VERTICAL BARS	TIES	PENET.	CAPACITY (ASD)
P1	2'-0"	6-#8	#3 @ 12" O.C.	10'-0"	510 KIPS

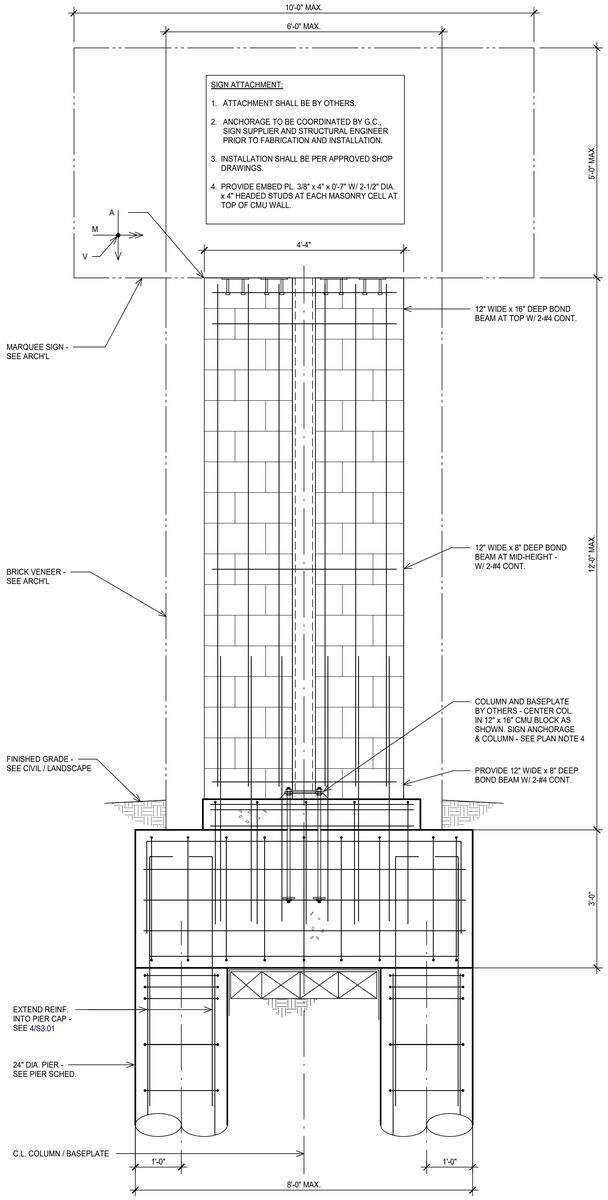
1 TYPICAL CASED DRILLED PIER DETAIL
NO SCALE



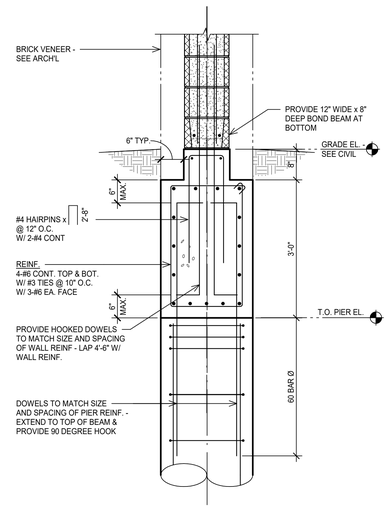
NOTES:

1. FORM ALL SIDES OF ALL BELOW GRADE BEAMS, WALLS, PILASTERS, AND PIER CAPS. EARTH FORMING IS NOT PERMITTED.
2. PLACE SOIL RETAINERS AT SIDES OF VOID SPACE UNDER ALL STRUCTURAL CONCRETE PIER CAPS, PILASTERS, GRADE BEAMS, AND WALLS BELOW GRADE.
3. SLABS HAVE BEEN DESIGNED FOR DEGRADABLE VOID PRODUCTS. USE OF A DIFFERENT PRODUCT IS PROHIBITED.
4. INSTALL SOIL RETAINERS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS FOLLOWS:
   A. PLACE BASE OF SOIL RETAINER IN A 3" DEEP TRENCH CUT IN UNDISTURBED SOIL OR COMPACTED FILL.
   B. STARTING AT END OF BEAM OR WALL PANEL, LAY SOIL RETAINER IN TRENCH AND PLACE VERTICAL AGAINST BEAM OR WALL PANEL. OVERLAP ENDS OF ADJACENT SOIL RETAINERS 6" MIN. & SECURE TO BEAM OR WALL THROUGH OVERLAP.
   C. CUT TO FIT ENDS OF BEAMS OR WALL PANELS. CUT LENGTHS LESS THAN 1'-0" IN LENGTH SHALL NOT BE USED.
   D. PLACE BACKFILL AS SPECIFIED AFTER COMPLETION OF SOIL RETAINER INSTALLATION. TAKE NECESSARY PRECAUTIONS TO PROTECT SOIL RETAINERS FROM DAMAGE FROM COMPACTION EQUIPMENT.
5. STORE RETAINERS FLAT AND PROTECTED FROM DIRECT SUNLIGHT TO AVOID WARPAGE.

2 TYPICAL HDPP SOIL RETAINER DETAIL
NO SCALE



3 SECTION
SCALE: 3/4" = 1'-0"



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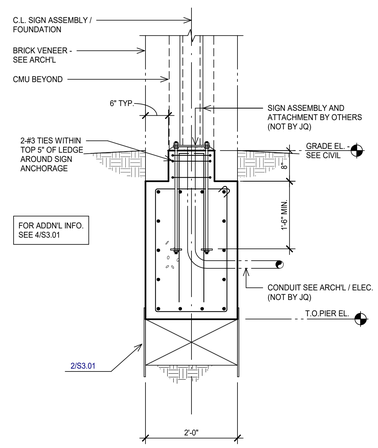
NO SCALE



5 SECTION
NO SCALE

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MARQUEE SIGN FRAMING PLAN AND DETAILS

DRAWING RECORD	
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STATE OF TEXAS
DAVID A. WALKER
132006
LICENSED PROFESSIONAL ENGINEER

S3.01

PROJECT NO.: 2023209

MECHANICAL ABBREVIATIONS, SYMBOLS, AND NOTES

ABBREVIATIONS

A	COMPRESSED AIR
ABV	ABOVE
A/C	AIR CONDITIONING
AD	ACCESS DOOR OR PANEL
ADR	AREA DRAIN
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AMP	AMPERE
BAS	BUILDING AUTOMATION SYSTEM
BCV	BALL CHECK VALVE
BFF	BELOW FINISHED FLOOR
B/C	BELOW CEILING
B/G	BELOW GRADE
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BR	BRANCH
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACK WATER VALVE
CD	CONDENSATE DRAIN
CU	CONDENSING UNIT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CL	CENTERLINE
CLG	CEILING
CO	CLEANOUT
CRU	COMPUTER ROOM UNIT
CWS	COOLING WATER SUPPLY
CWR	COOLING WATER RETURN
D, DR	DRAIN
DB	DRY BULB
DI	DIGITAL INPUT
DIA, Ø	DIAMETER
DN	DOWN
DO	DIGITAL OUTPUT
DS	DOWN SPOUT
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
ELEV	ELEVATION
EP	EXPLOSION PROOF
ERV	ENERGY RECOVERY VENTILATOR
EUH	ELECTRIC UNIT HEATER
EXIST, EX	EXISTING
F	FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER or FLOOR DRAIN
FH	FIRE HYDRANT
FLEX	FLEXIBLE
FP	FIRE PROOFING
FPB	FAN POWERED BOX
FPI	FINS PER INCH
FPF	FINS PER FOOT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH or FLOOR SINK
FT	FOOT, FEET
G	GAS, LOW PRESSURE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEAN OUT
GEN	GENERATOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
GV	GLOBE VALVE
HD	HUB DRAIN
HOA	HANDS-OFF AUTOMATIC SWITCH
HH	HAND HOLE
HP	HORSEPOWER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HZ	HERTZ
IE	INVERT ELEVATION
ID	INSIDE DIAMETER
IN	INCH
INV	INVERT
IU	MINI-SPLIT INDOOR UNIT
KW	KILOWATTS (1000 WATTS)
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LG	LENGTH
LT	LIGHT
MAN	MANUAL
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM, MINUTE
MVD	MANUAL VOLUME DAMPER
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED, NOISE CRITERIA
NO	NORMALLY OPEN, NUMBER
NT	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED, OWNER INSTALLED
OU	MINI-SPLIT OUTDOOR UNIT
P	PRESSURE
P/A	PRE-ACTION
PC	PLUG COCK or PULL CHAIN
PE	PNEUMATIC ELECTRIC SWITCH
PH	PHASE
PIV	POST INDICATOR VALVE
PO	PLUGGED OUTLET
PNL	PANEL
PRV	PRESSURE REDUCING VALVE or PRESSURE RELIEF VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PTRV	PRESSURE-TEMPERATURE RELIEF VALVE
PVC	POLYVINYL CHLORIDE
PWR	POWER

R	RELAY
RA	RETURN AIR
RD	ROOF DRAIN
REC	RECESSED
RED	REDUCER
RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
BFP	BACKFLOW PREVENTER
RTU	ROOFTOP UNIT
SS	SANITARY SEWER
SA	SUPPLY AIR
SAN	SANITARY
SD	SMOKE DAMPER
SE	SERVICE ENTRANCE
SF	SUPPLY FAN, SQUARE FEET
SENS	SENSIBLE
SH	SUPPLY HOOD
SPEC	SPECIFICATION
SPRK	SPRINKLER
SP	STATIC PRESSURE
S.S.	START STOP STATION
ST	STACK
ST.STL	STAINLESS STEEL
SV	SOLENOID VALVE
TEMP	TEMPERATURE
TSTAT	THERMOSTAT
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
UF	UNDERFLOOR
UG	UNDERGROUND
UN	UNION
V	VENT, VOLT
VAV	VARIABLE AIR VOLUME TERMINAL UNIT
VEL	VELOCITY
VOL	VOLUME
VP	VAPORPROOF
VTR	VENT THRU ROOF
W	WATT or WIRE
W/	WITH
WB	WET BULB
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WSHP	WATER SOURCE HEAT PUMP
WP	WEATHERPROOF

LEGEND

	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	ANCHOR POINT
	AUTOMATIC AIR VENT
	BALANCE VALVE
	BALL VALVE
	BELLOWS TYPE EXPANSION JOINT
	BLIND FLANGE
	BUTTERFLY VALVE
	CAP
	CHECK VALVE
C	CO2 SENSOR
CR	CONCENTRIC REDUCER
	DIFFERENTIAL PRESSURE REDUCING REGULATOR
D	DROP IN DUCT
SD	DUCT MOUNTED SMOKE DAMPER
ER	ECCENTRIC REDUCER
M FD	ELECTROMAGNETIC FLOW METER
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
	FLEX CONNECTOR
	FLEXIBLE DUCTWORK, SIZE AS DESIGNATED ON PLAN
FE	FLOW ELEMENT
	FLOW IN DIRECTION OF ARROW
	FLOW MEASURING & BALANCING VALVE
	GATE VALVE
	GAUGE COCK
	GLOBE VALVE
	GUIDE OR RACK POINT
H	HUMIDITY SENSOR
	MANUAL DAMPER
M	MOTORIZED DAMPER
	MULTI-PURPOSE VALVE (SHUTOFF, BALANCING, CHECK)
	NEW TO EXISTING CONNECTION
	PETE'S PLUG
S	PLENUM RATED SMOKE DETECTOR
	PLUG VALVE
	POINT OF DISCONNECTION
OR P	PRESSURE GAUGE WITH GAUGE COCK
	PRESSURE INDEPENDENT BALANCE VALVE
	PRESSURE REDUCING VALVE
P	PRESSURE SENSOR
	RETURN/EXHAUST AIR FLOW ARROW
	RETURN OR EXHAUST GRILLE, SIZE AND TYPE DESIGNATED ON PLAN
	RETURN OR EXHAUST IN VERTICAL
R	RISE IN DUCT
	RISE AND DROP IN PIPING

	SIDEWALL RETURN/EXHAUST GRILLE
	SIDEWALL SUPPLY GRILLE
	SLOPE DOWN IN DIRECTION OF ARROW
SD	SMOKE DAMPER
S	SMOKE DETECTOR
	STRAINER WITH BLOWDOWN VALVE
	SUPPLY AIR FLOW ARROW
	SUPPLY DIFFUSER, SIZE AS DESIGNATED ON PLAN
	SUPPLY DUCT IN VERTICAL
	SYSTEM FILL CONNECTION
TE	TEMPERATURE ELEMENT
OR T	TEMPERATURE GAUGE WITH GAUGE COCK
TS	TEMPERATURE SENSOR
	THERMOMETER
T	THERMOSTAT
	THERMOWELL
	TURBINE FLOW METER
	TURNING VANES
	ULTRASONIC FLOW METER
	UNION

GENERAL CONDITIONS

1. THE GENERAL CONTRACTOR SHALL ACCUMULATE ALL RELATED INFORMATION FROM THEIR SUB-CONTRACTORS AND SUPPLIERS THAT WILL ALLOW THE GENERAL CONTRACTOR TO INCORPORATE ALL ELEMENTS AND WORK OF ALL TRADES INTO A FULLY COORDINATED AUTO-CAD DRAWING SECTION THROUGH AREAS OF DENSE MECHANICAL, ELECTRICAL, CABLE TRAYS, PLUMBING, SECURITY, PA SYSTEM AND FIRE PROTECTION SYSTEMS PRIOR TO THE FABRICATION OR INSTALLATION OF ANY WORK SO AS TO CONFIRM PROPER ACCESS TO ALL ELEMENTS FOR PROPER OPERATION AND MAINTENANCE SERVICE SPACE.

2. ALL WORK BY CONTRACTOR SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES INCLUDING THE CURRENT INTERNATIONAL ENERGY CONSERVATION CODE.

3. MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT SHALL BE NEW AND SHALL BEAR THE U.L. LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER COMPLETION AND ACCEPTANCE BY THE OWNER.

4. CONTRACTOR SHALL INSTALL SYSTEMS WITHOUT INTERFERENCE AND IN STRICT COORDINATION WITH OTHER TRADES.

5. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING OF SUCH DIFFERENCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH REQUIREMENTS OF APPLICABLE CODES AND STANDARDS HE SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECTS.

6. PROVIDE ACCESS, INCLUDING NECESSARY ACCESS DOORS, FOR EQUIPMENT REQUIRING ADJUSTMENT OR MAINTENANCE. LOCATE ALL EQUIPMENT SUCH THAT OPERATION OR MAINTENANCE IS NOT RESTRICTED.

7. DO NOT RUN PIPING OR DUCTWORK, OR LOCATE EQUIPMENT, WITH RESPECT TO SWITCHBOARDS, PANELBOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS WITHIN APPLICABLE CODE CLEARANCES OR MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES, WHICHEVER IS GREATER.

8. VERIFY ALL SENSOR AND THERMOSTAT LOCATIONS WITH ARCHITECT PRIOR TO ROUGHING IN. MOUNTING HEIGHTS SHALL COMPLY WITH ACCESSIBILITY STANDARDS.

9. DUCT SIZES SHOWN ON PLANS ARE CLEAR AIRSTREAM DIMENSIONS.

10. PROVIDE MANUAL VOLUME DAMPER AT EACH DIFFUSER/GRILLE BRANCH TAP. PROVIDE DAMPER ADJUSTABLE THROUGH DIFFUSER/GRILLE FACE OR PROVIDE PROVISIONS FOR ADJUSTING DAMPERS IN AREAS WITH HARD CEILING.

11. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS.

12. SMOKE DETECTORS FOR HVAC EQUIPMENT AND SMOKE DAMPERS SHALL BE FURNISHED AND WIRED BY FIRE ALARM CONTRACTOR. MECHANICAL CONTRACTOR SHALL INSTALL FURNISHED DETECTORS IN EQUIPMENT AND/OR DUCTWORK.

DEMOLITION NOTES

1. THE SCOPE OF DEMOLITION WORK INCLUDES DEMOLITION AND REMOVAL OF ALL EXISTING HVAC EQUIPMENT SHOWN TO BE REMOVED ON THE DEMOLITION DRAWINGS.

2. LOCATION OF EXISTING EQUIPMENT & PIPING SHOWN ON THESE DRAWINGS IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR THE CAREFUL STUDY OF ALL PROPOSED WORK, THE VERIFICATION OF FIELD CONDITIONS, AND THE PERFORMANCE OF COMPLETE DEMOLITION WORK RELATED THERETO.

3. ALL ITEMS CALLED OUT FOR "SALVAGE" SHALL BE CLEANED AND USED ON THIS PROJECT OR CLEANED AND DELIVERED TO THE OWNER IN AN ORDERLY MANNER.

4. ALL DEMOLITION MATERIALS NOT SALVAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE. ALL METALS SHALL BE DISPOSED IN A METAL DUMPSTER. CONTRACTOR SHALL SUPPLY METAL DUMPSTER AND LOCATION SHALL BE COORDINATED WITH THE OWNER.

5. CONTRACTOR SHALL SUBMIT A DEMOLITION PHASING PLAN TO THE ARCHITECT FOR REVIEW AND COMMENT PRIOR TO IMPLEMENTING DEMOLITION ACTIVITIES.

6. EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE ALL UTILITIES AFFECTED BY CONSTRUCTION ACTIVITIES AND SHALL PROTECT THEM FROM DAMAGE OR ADJUST AS NECESSARY TO ACTUAL CONDITIONS.

7. CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUTDOWNS AND TESTING WITH THE OWNER.

8. THE CONTRACTOR SHALL RECLAIM REFRIGERANTS FROM AIR CONDITIONING UNITS BEING REMOVED IN ACCORDANCE WITH THE FEDERAL CLEAN AIR ACT, ARI STANDARD 740 AND APPLICABLE STATE OF TEXAS REGULATIONS. ATMOSPHERIC RELEASE OF REFRIGERANTS IS PROHIBITED. THE CONTRACTOR SHALL TURN OVER THE RECLAIMED REFRIGERANTS TO THE OWNER.

9. NO EQUIPMENT SHALL BE REMOVED/DEMOLISHED BEFORE REPLACEMENT EQUIPMENT ARRIVES ON SITE AND VERIFIED FROM OWNER THAT EQUIPMENT CAN BE REMOVED/DEMOLISHED.

NOTE: ***SOME SYMBOLS MAY NOT BE USED.***

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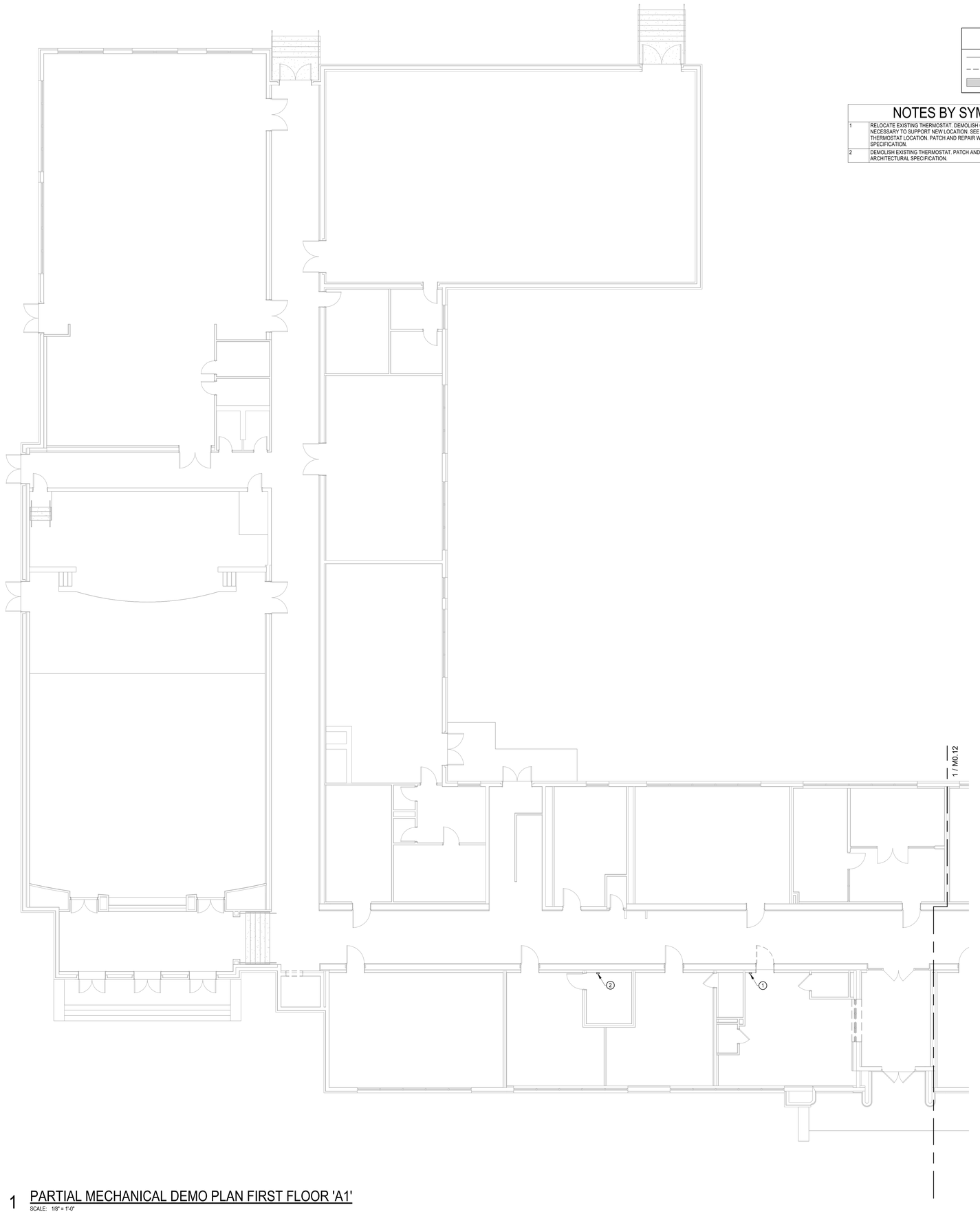
MECHANICAL COVER

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M0.01

PROJECT NO.: 2023209



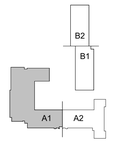
1 PARTIAL MECHANICAL DEMO PLAN FIRST FLOOR 'A1'
SCALE: 1/8" = 1'-0"

LEGEND	
	EXISTING TO REMAIN
	DEMOLITION
	NOT IN SCOPE

NOTES BY SYMBOL:

1	RELOCATE EXISTING THERMOSTAT. DEMOLISH CONTROL WIRING AS NECESSARY TO SUPPORT NEW LOCATION. SEE SHEET M1.11 FOR NEW THERMOSTAT LOCATION. PATCH AND REPAIR WALL PER ARCHITECTURAL SPECIFICATION.
2	DEMOLISH EXISTING THERMOSTAT. PATCH AND REPAIR WALL PER ARCHITECTURAL SPECIFICATION.

KEY MAP



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PARTIAL MECHANICAL DEMO FIRST FLOOR PLAN 'A1'

DRAWING RECORD

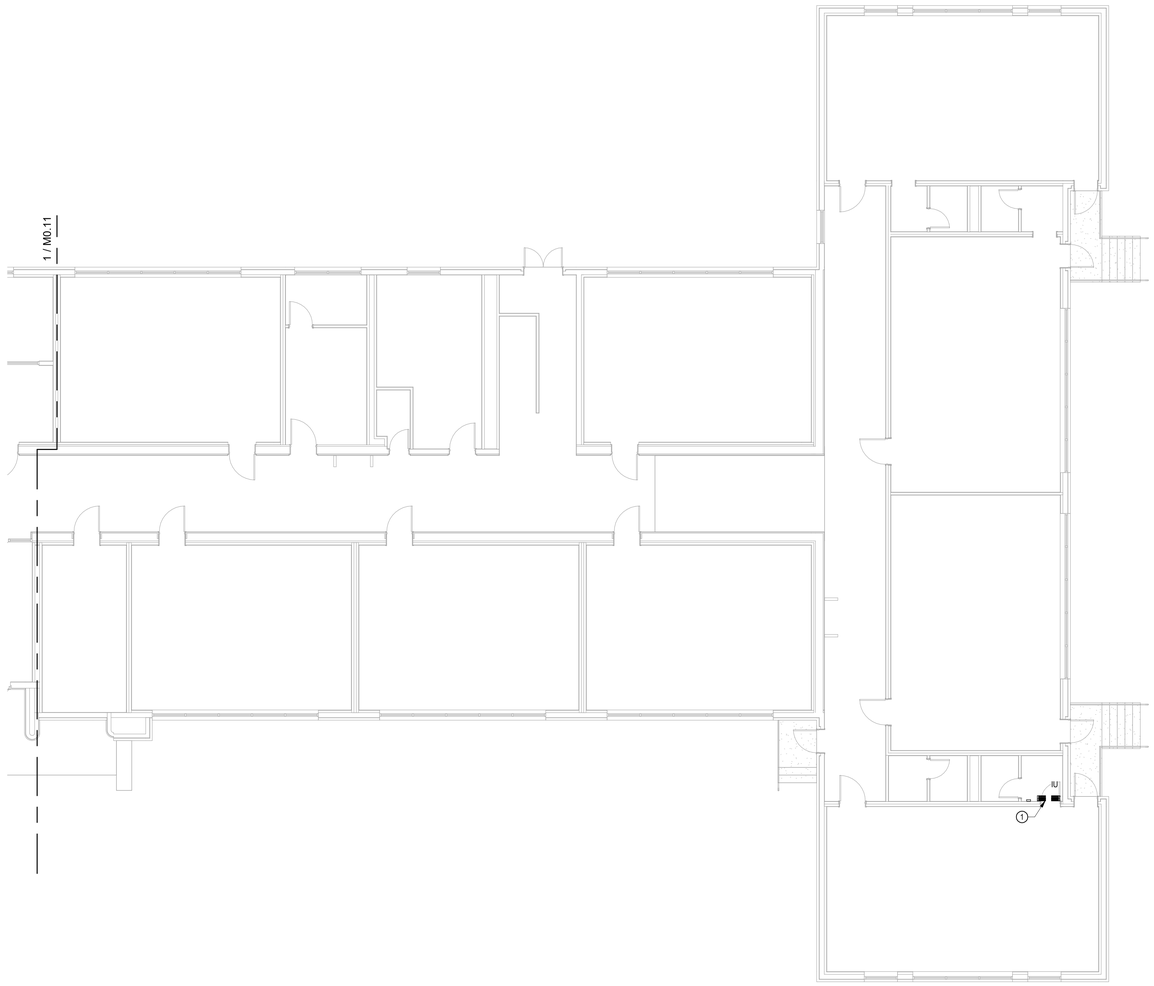
DATE	DESCRIPTION
09/18/24	BID SET

M0.11

PROJECT NO.: 2023209

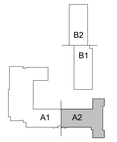
LEGEND	
———	EXISTING TO REMAIN
- - - - -	DEMOLITION
▭	NOT IN SCOPE

NOTES BY SYMBOL:	
1	DEMOLISH EXISTING MINI-SPLIT INDOOR UNIT. DEMOLISH ASSOCIATED THERMOSTAT, REFRIGERANT, AND CONDENSATE PIPING.



1 PARTIAL MECHANICAL DEMO FIRST FLOOR PLAN 'A2'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL MECHANICAL DEMO FIRST FLOOR PLAN 'A2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M0.12

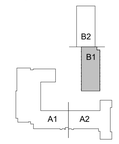
PROJECT NO.: 2023209

LEGEND	
	EXISTING TO REMAIN
	DEMOLITION
	NOT IN SCOPE

NOTES BY SYMBOL:	
1	DISCONNECT DUFFUSER FROM DUCTWORK CONNECTIONS. DEMOLISH REGISTER. DEMOLISH ASSOCIATED DUCTWORK BACK TO RTU ABOVE.

1 PARTIAL MECHANICAL DEMO FIRST FLOOR PLAN 'B1'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL MECHANICAL DEMO FIRST FLOOR PLAN 'B1'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

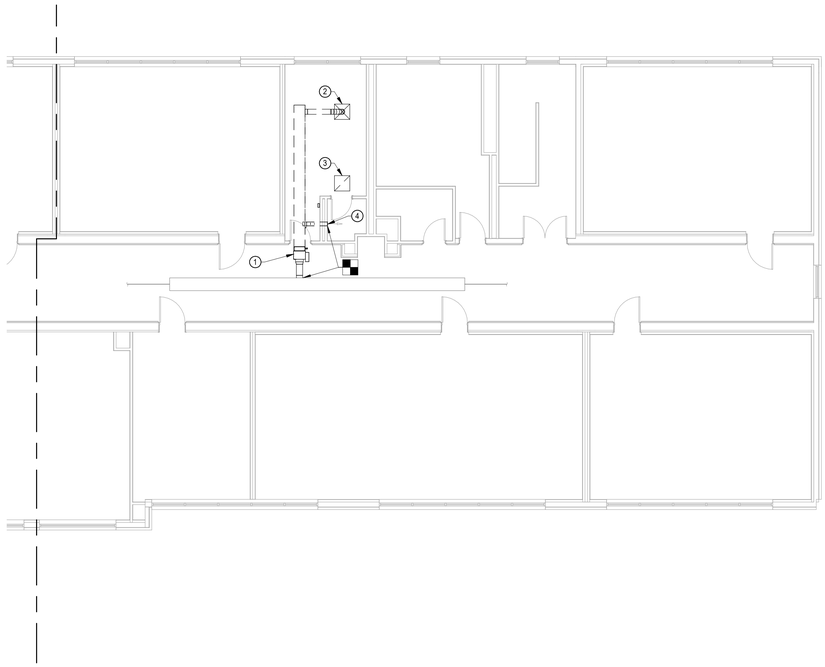
M0.13

PROJECT NO.: 2023209

LEGEND	
————	EXISTING TO REMAIN
– – – – –	DEMOLITION
	NOT IN SCOPE

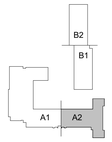
NOTES BY SYMBOL:

1	DEMOLISH VAV TERMINAL UNIT. DEMOLISH ASSOCIATED DOWNSTREAM DUCTWORK. DEMOLISH INLET DUCTWORK CONNECTION BACK TO DUCT MAIN AND CAP. DEMOLISH ASSOCIATED HEATING WATER SUPPLY AND RETURN PIPING BACK TO MAIN AND CAP. DEMOLISH ASSOCIATED CONTROL WIRING AND SPACE TEMPERATURE SENSING DEVICE. FIELD VERIFY EXACT SIZE, LOCATION, AND ROUTING OF ALL DUCTWORK AND PIPING PRIOR TO DEMOLITION.
2	DEMOLISH SUPPLY AIR DIFFUSER.
3	DEMOLISH RETURN AIR GRILLE.
4	SIDEWALL SUPPLY AIR GRILLE TO REMAIN.



1 PARTIAL MECHANICAL DEMO SECOND FLOOR PLAN 'A2'
SCALE: 1/8" = 1'-0"

KEY MAP



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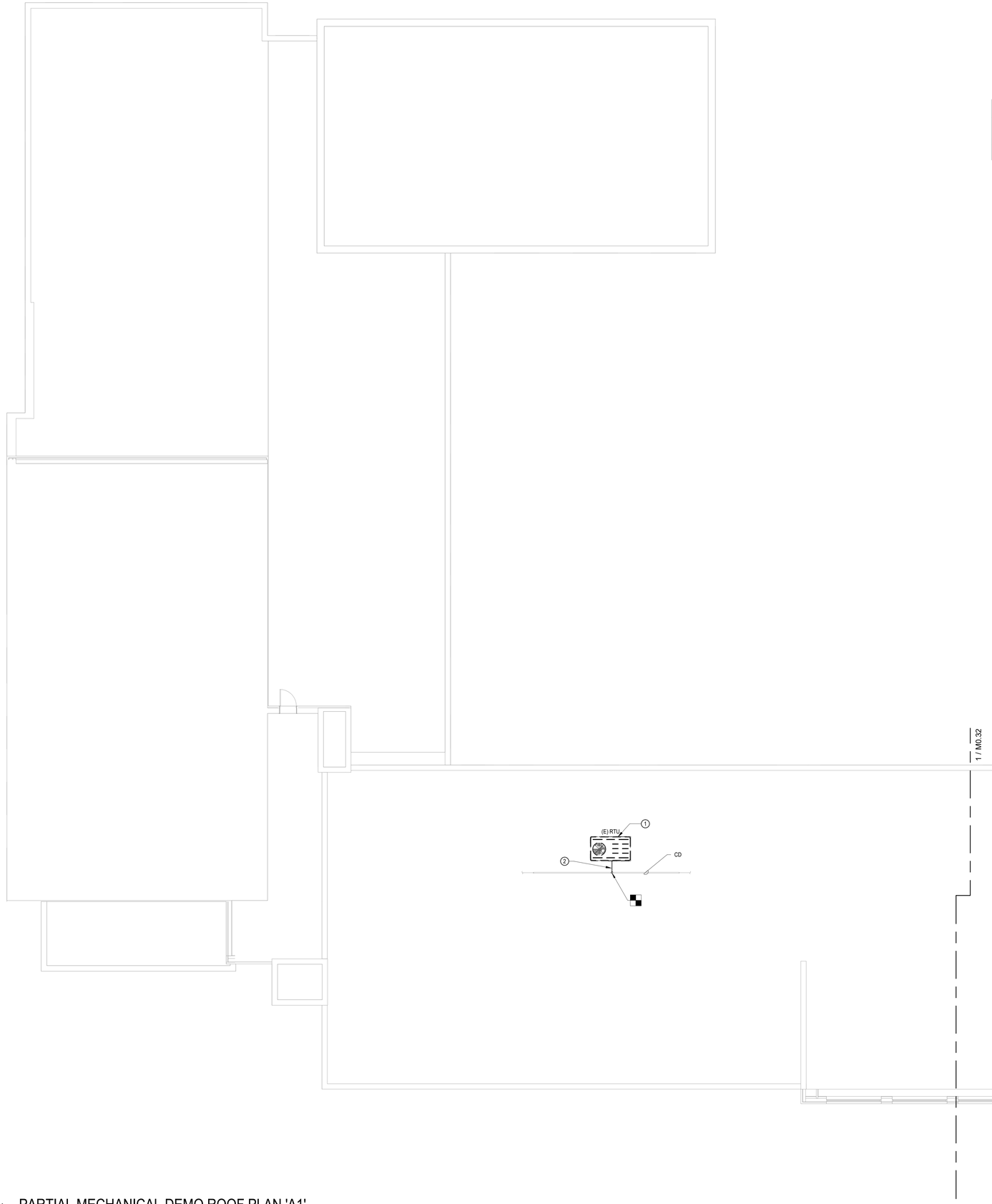
DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M0.22

PROJECT NO.: 2023209



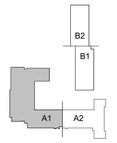
1 PARTIAL MECHANICAL DEMO ROOF PLAN 'A1'
SCALE: 1/8" = 1'-0"

LEGEND	
	EXISTING TO REMAIN
	DEMOLITION
	NOT IN SCOPE

NOTES BY SYMBOL:

1	DISCONNECT RTU FROM DUCTWORK AND CONDENSATE PIPING CONNECTION. DEMOLISH RTU. DEMOLISH ASSOCIATED ROOF CURB. PREPARE DUCTWORK FOR CONNECTION TO NEW RTU.
2	DEMOLISH EXISTING RTU CONDENSATE DRAIN PIPING CONNECTION BACK TO MAIN. FIELD VERIFY EXACT SIZE AND ROUTING OF EXISTING CONDENSATE DRAIN PIPING PRIOR TO DEMOLITION.

KEY MAP



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PARTIAL MECHANICAL DEMO ROOF PLAN 'A1'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M0.31

PROJECT NO.: 2023209

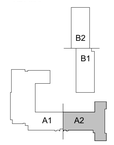
LEGEND	
———	EXISTING TO REMAIN
– – – –	DEMOLITION
	NOT IN SCOPE

NOTES BY SYMBOL:

1	DEMOLISH MINI-SPLIT OUTDOOR UNIT. DEMOLISH ASSOCIATED REFRIGERANT PIPING. DEMOLISH ASSOCIATED ROOF SUPPORTS.

1 PARTIAL MECHANICAL DEMO ROOF PLAN 'A2'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL MECHANICAL DEMO ROOF PLAN 'A2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

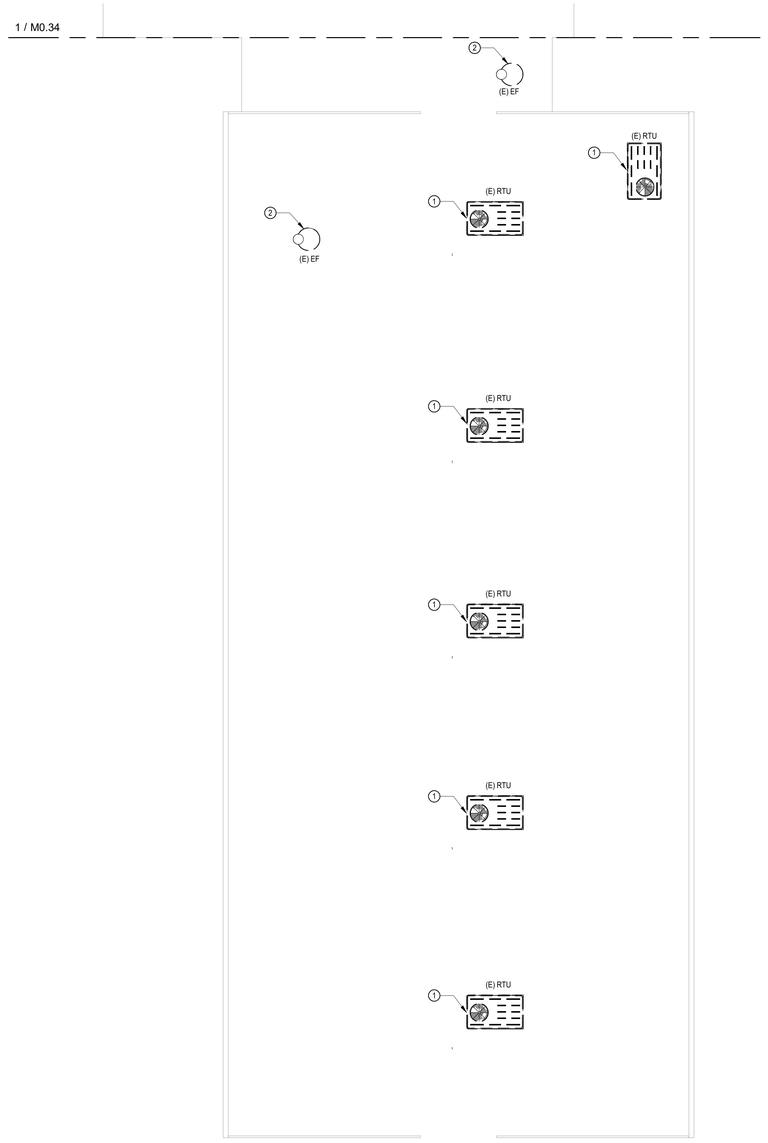
M0.32

PROJECT NO.: 2023209

LEGEND	
	EXISTING TO REMAIN
	DEMOLITION
	NOT IN SCOPE

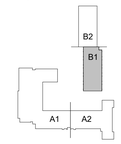
NOTES BY SYMBOL:

1	DISCONNECT RTU FROM EXISTING DUCTWORK, NATURAL GAS PIPING, AND CONDENSATE PIPING. DEMOLISH RTU. DEMOLISH ASSOCIATED ROOF CURB. DEMOLISH CONDENSATE DRAIN PIPING. PREPARE DUCTWORK FOR CONNECTION TO NEW RTU. PREPARE GAS PIPING FOR NEW CONNECTION TO NEW RTU.
2	DISCONNECT EXHAUST FAN FROM EXISTING DUCTWORK, POWER, AND CONTROL WIRING. DURING ROOF REPLACEMENT, TEMPORARILY REMOVE EXHAUST FAN. PREPARE DUCTWORK FOR RECONNECTION TO EXHAUST FAN. DEMOLISH EXISTING CURB.



1 PARTIAL MECHANICAL DEMO ROOF PLAN 'B1'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL MECHANICAL DEMO ROOF PLAN 'B1'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

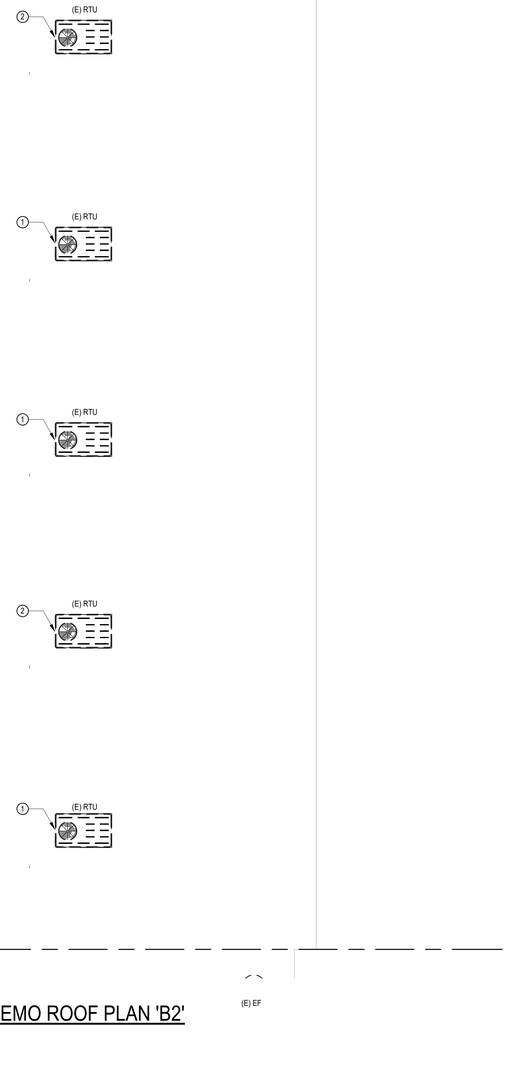
M0.33

PROJECT NO.: 2023209

LEGEND	
———	EXISTING TO REMAIN
– – – –	DEMOLITION
	NOT IN SCOPE

NOTES BY SYMBOL:

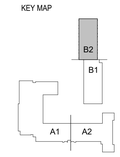
1	DISCONNECT RTU FROM EXISTING DUCTWORK, NATURAL GAS PIPING, AND CONDENSATE PIPING. DEMOLISH RTU. DEMOLISH ASSOCIATED ROOF CURB. DEMOLISH CONDENSATE DRAIN PIPING. PREPARE DUCTWORK FOR CONNECTION TO NEW RTU. PREPARE GAS PIPING FOR NEW CONNECTION TO NEW RTU.
2	DISCONNECT RTU FROM EXISTING DUCTWORK, NATURAL GAS PIPING, AND CONDENSATE PIPING, REMOVE RTU FOR REINSTALLATION AFTER ROOF REPLACEMENT. DEMOLISH ASSOCIATED ROOF CURB. DEMOLISH CONDENSATE DRAIN PIPING. PREPARE DUCTWORK FOR CONNECTION TO NEW RTU. PREPARE GAS PIPING FOR NEW CONNECTION TO NEW RTU.



1 / M0.33

(E) EF

1 PARTIAL MECHANICAL DEMO ROOF PLAN 'B2'
SCALE: 1/8" = 1'-0"



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PARTIAL MECHANICAL DEMO ROOF PLAN 'B2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

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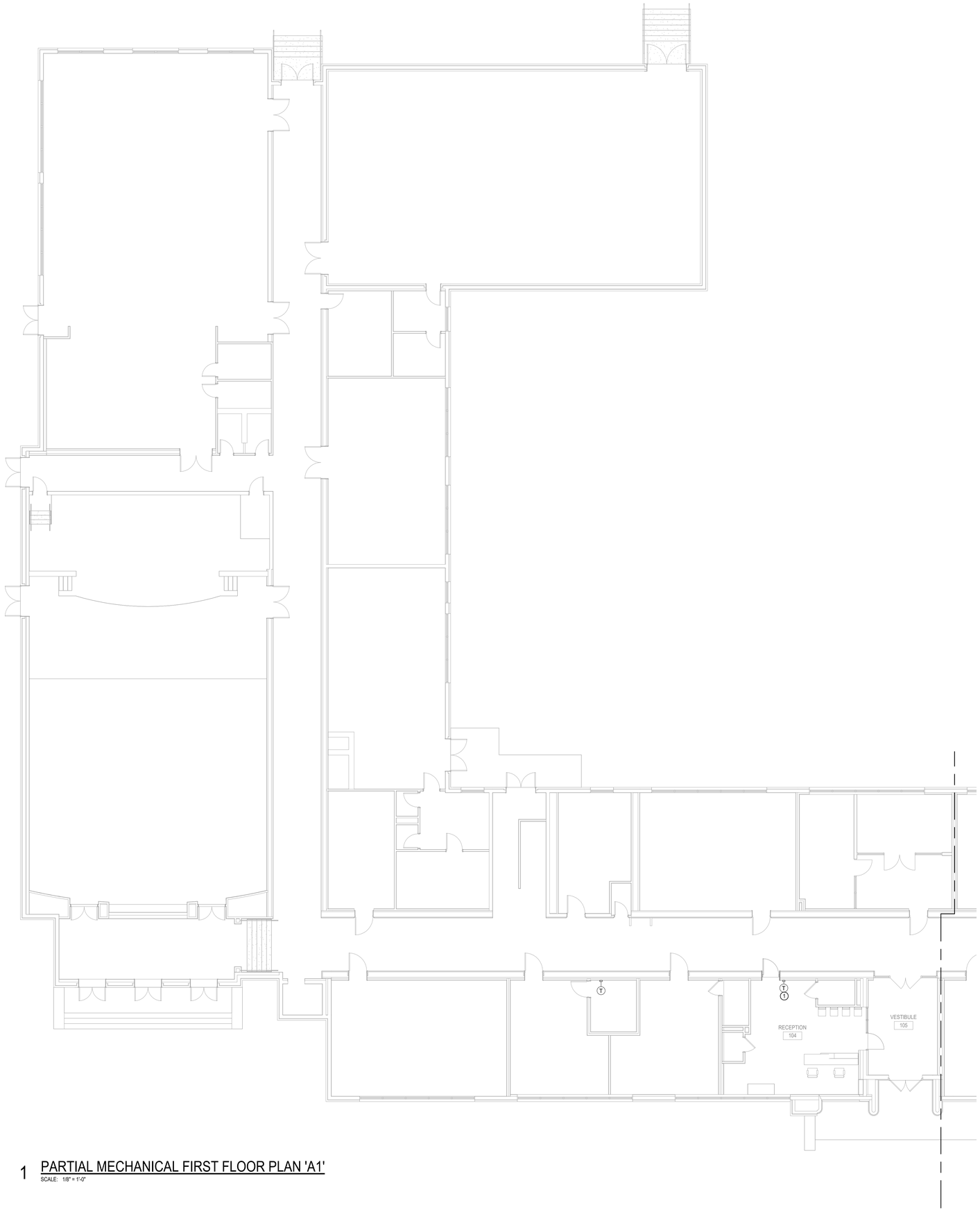
PROJECT NO.: 2023209



1 PARTIAL MECHANICAL FIRST FLOOR PLAN 'A1'
SCALE: 1/8" = 1'-0"

LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

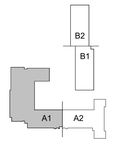
MECHANICAL GENERAL NOTES:

1. FINAL LOCATIONS OF ALL AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL CEILING FINISHES.
2. ALL DUCT SIZE NOTES REFER TO CLEAR INSIDE DIMENSION OF DUCT.
3. PROVIDE VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS TO BALANCE SYSTEM.

NOTES BY SYMBOL:

1	RELOCATE THERMOSTAT TO LOCATION SHOWN. PROVIDE CONTROL WIRING AS NECESSARY TO SUPPORT NEW LOCATION.

KEY MAP



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PARTIAL MECHANICAL FIRST FLOOR PLAN 'A1'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M1.11

PROJECT NO.: 2023209

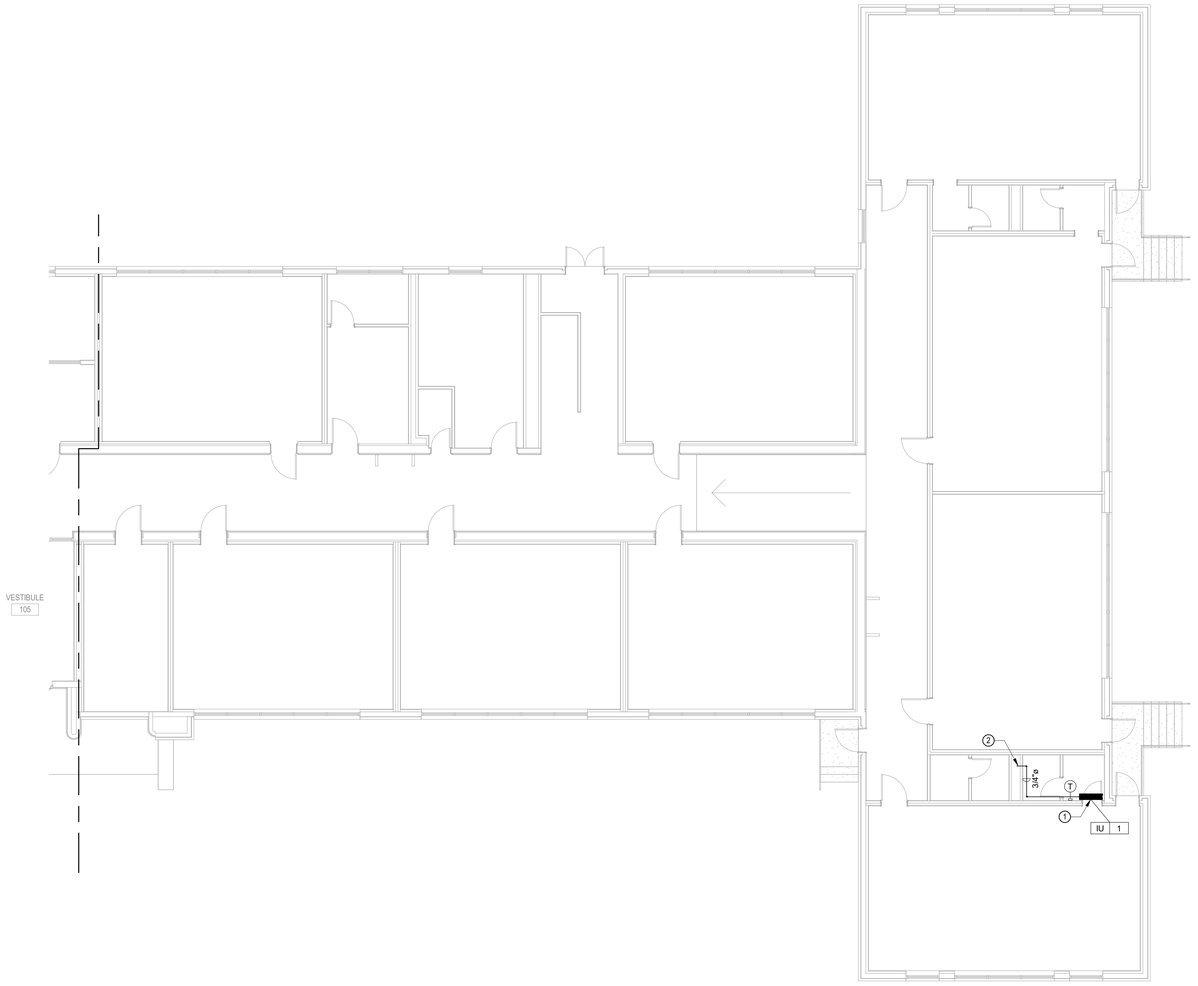
LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

MECHANICAL GENERAL NOTES:

1. FINAL LOCATIONS OF ALL AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL CEILING FINISHES.
2. ALL DUCT SIZE NOTES REFER TO CLEAR INSIDE DIMENSION OF DUCT.
3. PROVIDE VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS TO BALANCE SYSTEM.

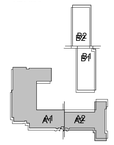
NOTES BY SYMBOL:

1	PROVIDE NEW MINI-SPLIT SYSTEM INDOOR UNIT SERVING IDF ROOM. PROVIDE NEW REFRIGERANT PIPING TO OUTDOOR UNIT ON ROOF. PROVIDE NEW CONDENSATE DRAIN PIPING AND CONDENSATE PUMP BY MANUFACTURER.
2	ROUTE 3/4" CONDENSATE DRAIN PIPING DOWN IN WALL. TERMINATE PIPING AT TAILPIECE OF SINK WITH AIR GAP (SEE DETAIL).



1 PARTIAL MECHANICAL FIRST FLOOR PLAN 'A2'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL MECHANICAL FIRST FLOOR PLAN 'A2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M1.12

PROJECT NO.: 2023209

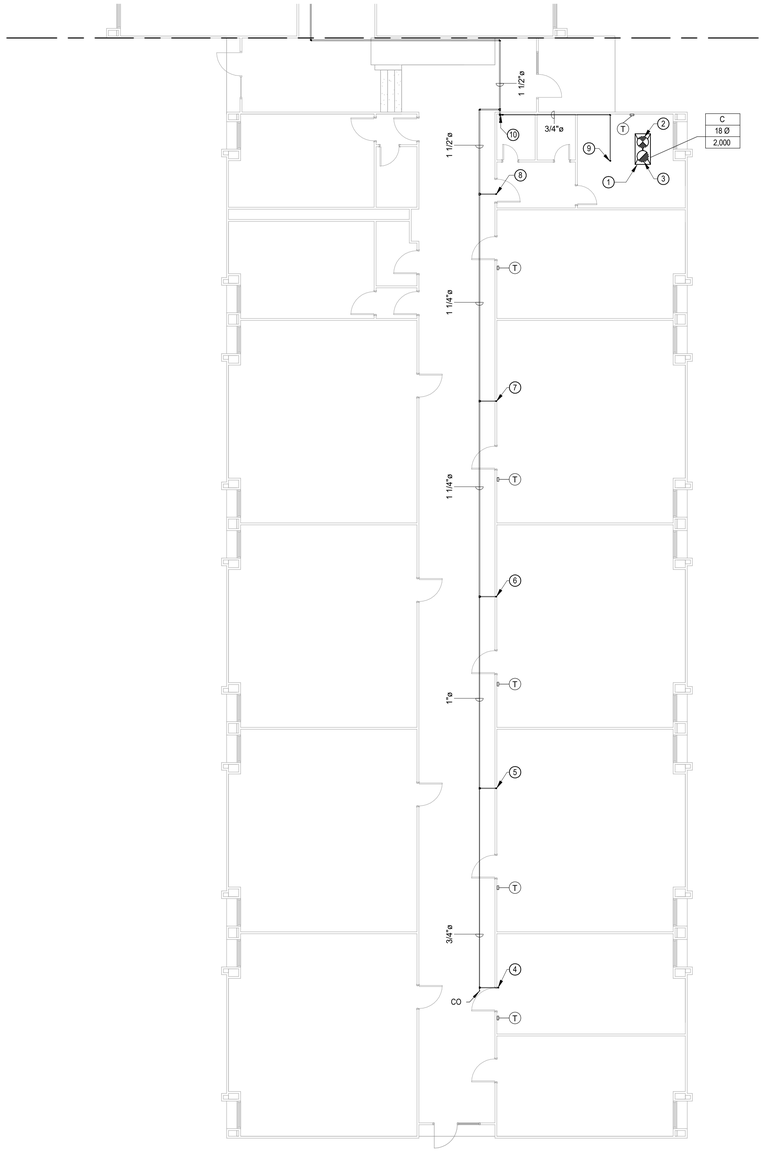
LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

MECHANICAL GENERAL NOTES:

1. FINAL LOCATIONS OF ALL AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL CEILING FINISHES.
2. ALL DUCT SIZE NOTES REFER TO CLEAR INSIDE DIMENSION OF DUCT.
3. PROVIDE VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS TO BALANCE SYSTEM.

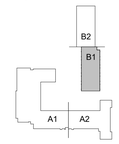
NOTES BY SYMBOL:

1	PROVIDE NEW CONCENTRIC DIFFUSER AND PLENUM BY DIFFUSER MANUFACTURER.
2	PROVIDE NEW 18"Ø SUPPLY AIR DUCT FROM RTU-12 ON ROOF. CONNECT TO CONCENTRIC DIFFUSER SUPPLY OPENING.
3	PROVIDE NEW 18"Ø RETURN AIR DUCT FROM RTU-12 ON ROOF. CONNECT TO CONCENTRIC DIFFUSER RETURN OPENING.
4	3/4" CONDENSATE DRAIN PIPING FROM RTU-2 ABOVE.
5	3/4" CONDENSATE DRAIN PIPING FROM RTU-3 ABOVE.
6	3/4" CONDENSATE DRAIN PIPING FROM RTU-4 ABOVE.
7	3/4" CONDENSATE DRAIN PIPING FROM RTU-5 ABOVE.
8	3/4" CONDENSATE DRAIN PIPING FROM RTU-6 ABOVE.
9	3/4" CONDENSATE DRAIN PIPING FROM RTU-12 ABOVE.
10	ROUTE 1-1/2" CONDENSATE DRAIN PIPING DOWN IN WALL. TERMINATE PIPING AT TAILPIECE OF SINK WITH AIR GAP (SEE DETAIL).



1 PARTIAL MECHANICAL FIRST FLOOR PLAN 'B1'
SCALE: 1/8" = 1'-0"

KEY MAP



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DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M1.13

PROJECT NO.: 2023209

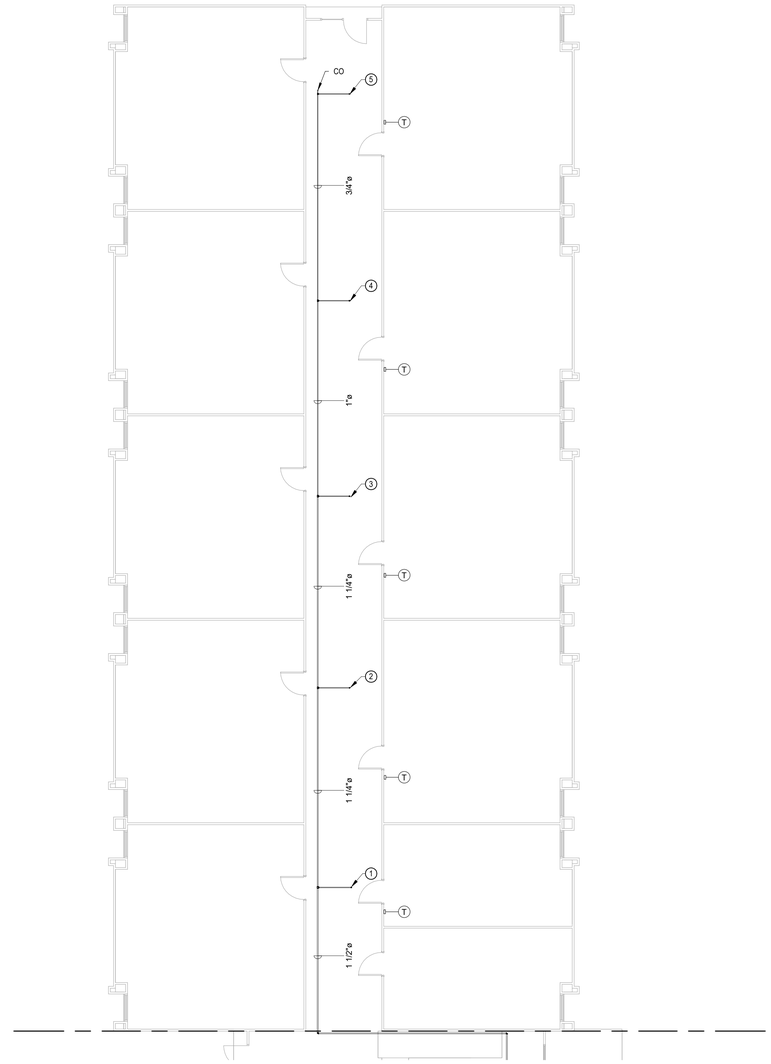
LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

MECHANICAL GENERAL NOTES:

1. FINAL LOCATIONS OF ALL AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL CEILING FINISHES.
2. ALL DUCT SIZE NOTES REFER TO CLEAR INSIDE DIMENSION OF DUCT.
3. PROVIDE VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS TO BALANCE SYSTEM.

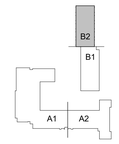
NOTES BY SYMBOL:

1	3/4" CONDENSATE DRAIN PIPING FROM RTU-7 ABOVE.
2	3/4" CONDENSATE DRAIN PIPING FROM RTU-8 ABOVE.
3	3/4" CONDENSATE DRAIN PIPING FROM RTU-9 ABOVE.
4	3/4" CONDENSATE DRAIN PIPING FROM RTU-10 ABOVE.
5	3/4" CONDENSATE DRAIN PIPING FROM RTU-11 ABOVE.



1 PARTIAL MECHANICAL FIRST FLOOR PLAN 'B2'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL MECHANICAL FIRST FLOOR PLAN 'B2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M1.14

PROJECT NO.: 2023209

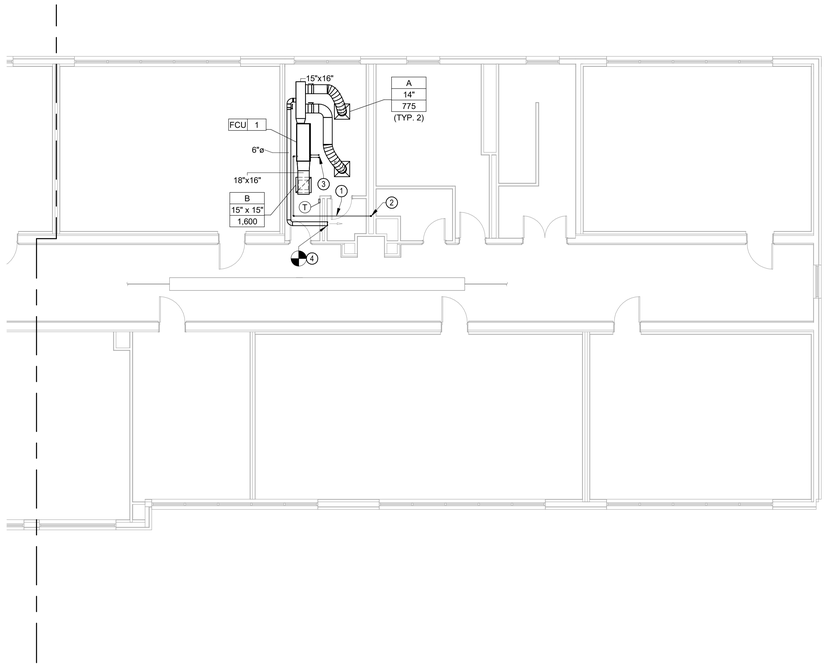
LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

MECHANICAL GENERAL NOTES:

1. FINAL LOCATIONS OF ALL AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL CEILING FINISHES.
2. ALL DUCT SIZE NOTES REFER TO CLEAR INSIDE DIMENSION OF DUCT.
3. PROVIDE VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS TO BALANCE SYSTEM.

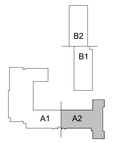
NOTES BY SYMBOL:

1	PROVIDE FCU-1 WITH NEW 1-1/4" CONDENSATE DRAIN PIPING.
2	ROUTE 1-1/4" CONDENSATE DRAIN PIPING DOWN IN WALL. TERMINATE AT LAVATORY TAIL PIECE WITH AIR GAP (SEE DETAIL).
3	3/8" REFRIGERANT LIQUID AND 5/8" REFRIGERANT SUCTION LINES ROUTED UP TO CU-1 ON ROOF. PROVIDWE WITH ROOF PENETRATION AS NECESSARY.
4	CONNECT NEW 6" X 6" SUPPLY AIR DUCT TO EXISTING SUPPLY DIFFUSER. REBALANCE DIFFUSER TO 50 CFM.



1 PARTIAL MECHANICAL SECOND FLOOR PLAN 'A2'
SCALE: 1/8" = 1'-0"

KEY MAP



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09/18/24

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PARTIAL MECHANICAL SECOND FLOOR PLAN 'A2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M1.22

PROJECT NO.: 2023209

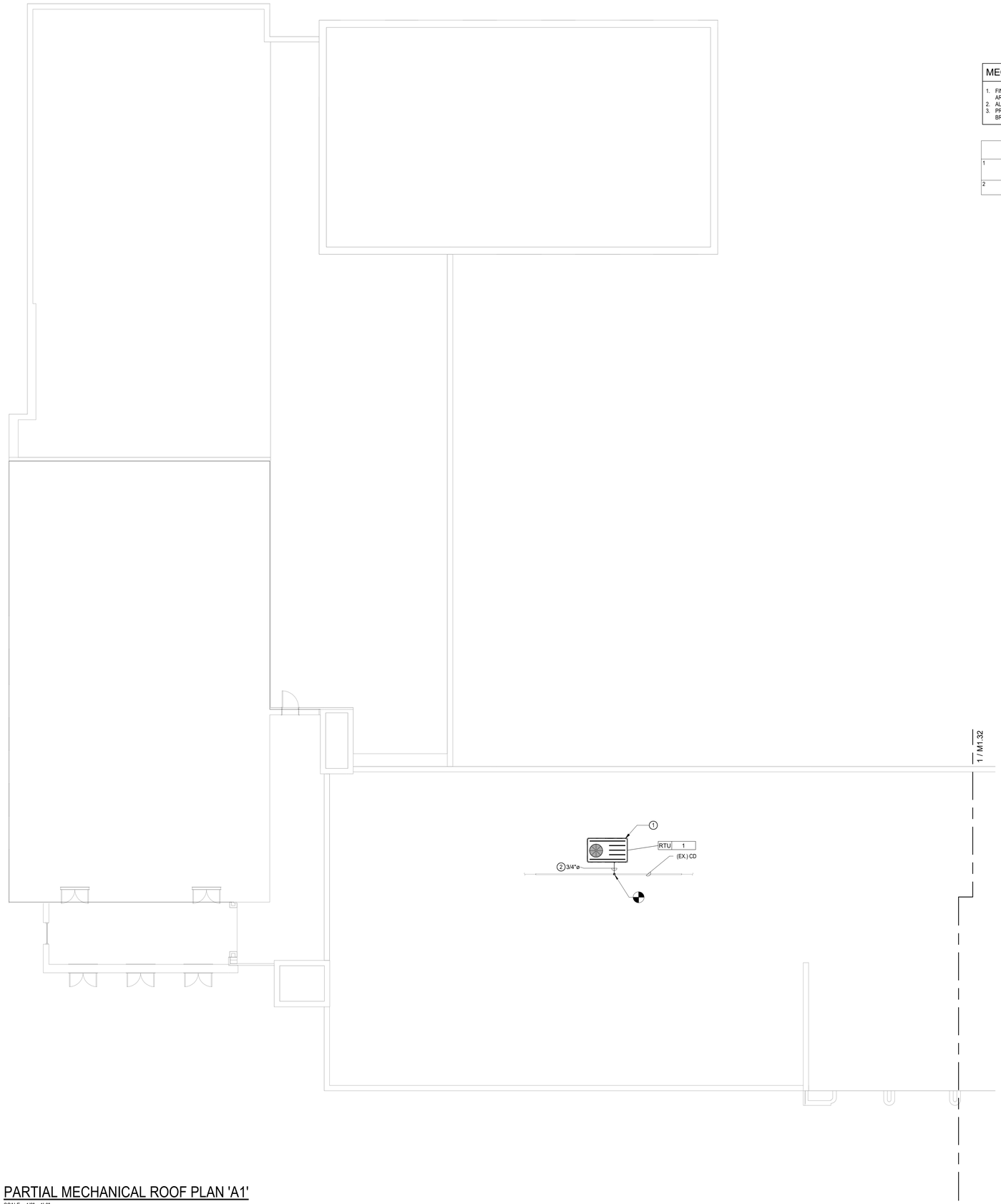
LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

MECHANICAL GENERAL NOTES:

1. FINAL LOCATIONS OF ALL AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL CEILING FINISHES.
2. ALL DUCT SIZE NOTES REFER TO CLEAR INSIDE DIMENSION OF DUCT.
3. PROVIDE VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS TO BALANCE SYSTEM.

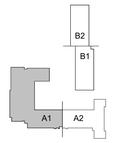
NOTES BY SYMBOL:

1	PROVIDE NEW COOLING ONLY PACKAGED DX RTU SERVING MDF ROOM ON FIRST FLOOR. CONNECT TO EXISTING DUCTWORK. PROVIDE WITH NEW ROOF CURB. PROVIDE WITH NEW THERMOSTAT IN MDF ROOM.
2	PROVIDE NEW 3/4" CONDENSATE DRAIN CONNECTION TO NEW RTU. CONNECT TO EXISTING CONDENSATE DRAIN PIPING MAIN.



1 PARTIAL MECHANICAL ROOF PLAN 'A1'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL MECHANICAL ROOF PLAN 'A1'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M1.31

PROJECT NO.: 2023209

LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

MECHANICAL GENERAL NOTES:

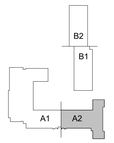
1. FINAL LOCATIONS OF ALL AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL CEILING FINISHES.
2. ALL DUCT SIZE NOTES REFER TO CLEAR INSIDE DIMENSION OF DUCT.
3. PROVIDE VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS TO BALANCE SYSTEM.

NOTES BY SYMBOL:

1	PROVIDE NEW CONDENSING UNIT. PROVIDE WITH NEW REFRIGERANT PIPING. PROVIDE WITH NEW ROOF SUPPORTS.
2	PROVIDE NEW MINI-SPLIT OUTDOOR UNIT. PROVIDE WITH NEW REFRIGERANT PIPING. PROVIDE WITH NEW ROOF SUPPORTS.

1 PARTIAL MECHANICAL ROOF PLAN 'A2'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL MECHANICAL ROOF PLAN 'A2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M1.32

PROJECT NO.: 2023209

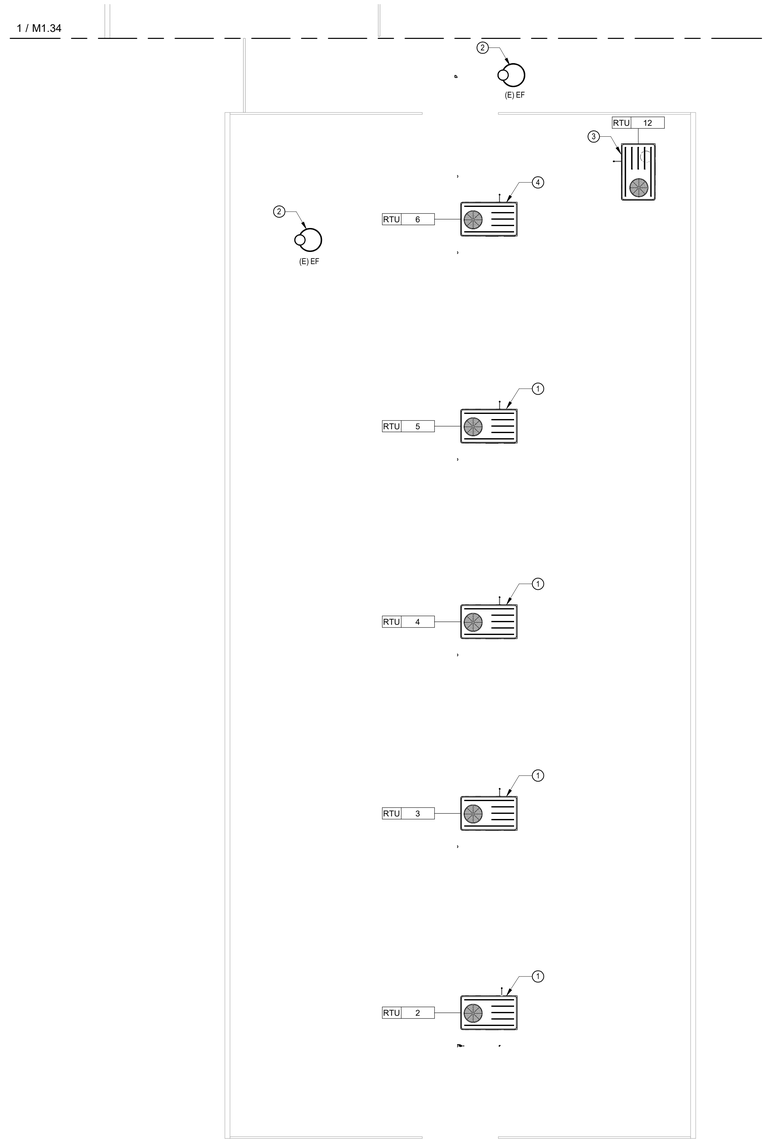
LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

MECHANICAL GENERAL NOTES:

1. FINAL LOCATIONS OF ALL AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL CEILING FINISHES.
2. ALL DUCT SIZE NOTES REFER TO CLEAR INSIDE DIMENSION OF DUCT.
3. PROVIDE VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS TO BALANCE SYSTEM.

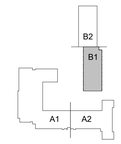
NOTES BY SYMBOL:

1	PROVIDE NEW PACKAGED DX RTU WITH GAS HEAT SERVING CLASSROOMS. CONNECT TO EXISTING DUCTWORK. PROVIDE WITH NEW ROOF CURB. PROVIDE WITH NEW CONDENSATE DRAIN PIPING ROUTED DOWN THROUGH ROOF. PROVIDE WITH NEW THERMOSTAT IN CLASSROOM.
2	AFTER ROOF REPLACEMENT: REINSTALL EXISTING FAN. CONNECT TO EXISTING DUCTWORK. PROVIDE WITH NEW ROOF CURB.
3	PROVIDE NEW PACKAGED DX RTU SERVING MDF ROOM. CONNECT TO EXISTING DUCTWORK. PROVIDE WITH NEW ROOF CURB. PROVIDE WITH NEW CONDENSATE DRAIN PIPING ROUTED DOWN THROUGH ROOF. PROVIDE WITH NEW THERMOSTAT IN CLASSROOM.
4	PROVIDE NEW 3 TON PACKAGED DX RTU WITH GAS HEAT SERVING CLASSROOMS. CONNECT TO EXISTING DUCTWORK. PROVIDE WITH NEW ROOF CURB. PROVIDE WITH NEW CONDENSATE DRAIN PIPING ROUTED DOWN THROUGH ROOF. PROVIDE WITH NEW THERMOSTAT IN CLASSROOM.



1 PARTIAL MECHANICAL ROOF PLAN 'B1'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL MECHANICAL ROOF PLAN 'B1'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M1.33

PROJECT NO.: 2023209

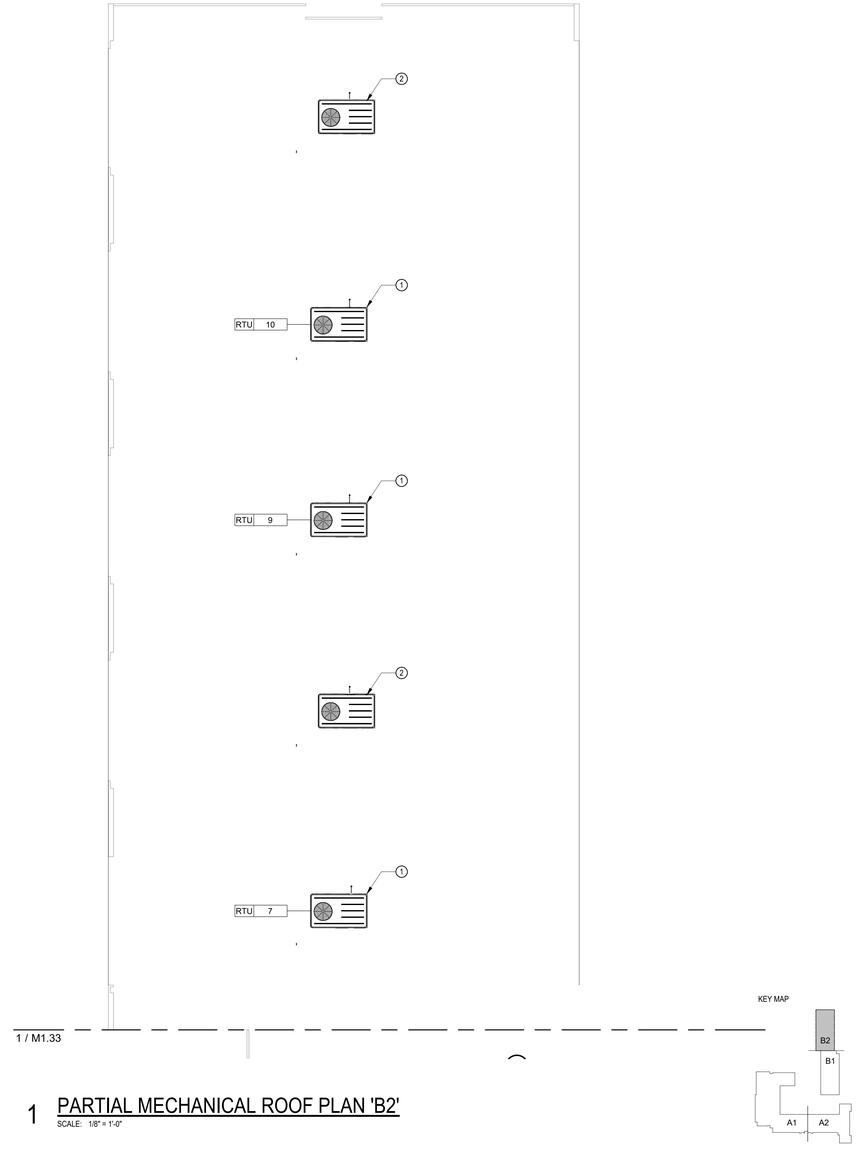
LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

MECHANICAL GENERAL NOTES:

1. FINAL LOCATIONS OF ALL AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL CEILING FINISHES.
2. ALL DUCT SIZE NOTES REFER TO CLEAR INSIDE DIMENSION OF DUCT.
3. PROVIDE VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS TO BALANCE SYSTEM.

NOTES BY SYMBOL:

1	PROVIDE NEW 7.5 TON PACKAGED DX RTU WITH GAS HEAT SERVING CLASSROOMS. CONNECT TO EXISTING DUCTWORK. PROVIDE WITH NEW ROOF CURB. PROVIDE WITH NEW CONDENSATE DRAIN PIPING ROUTED DOWN THROUGH ROOF. PROVIDE WITH NEW THERMOSTAT IN CLASSROOM.
2	REINSTALL ROOFTOP UNIT AFTER ROOF REPLACEMENT. CONNECT TO EXISTING DUCTWORK. PROVIDE WITH NEW ROOF CURB. PROVIDE WITH NEW CONDENSATE DRAIN PIPING ROUTED DOWN THROUGH ROOF. PROVIDE WITH NEW THERMOSTAT IN CLASSROOM.



1 PARTIAL MECHANICAL ROOF PLAN 'B2'
SCALE: 1/8" = 1'-0"

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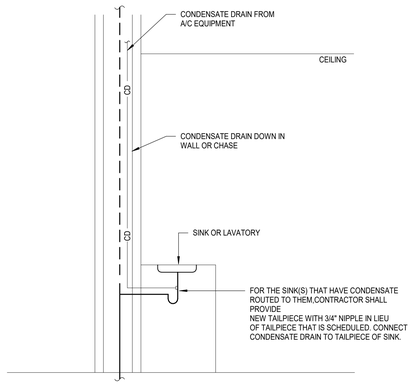
PARTIAL MECHANICAL ROOF PLAN 'B2'

DRAWING RECORD

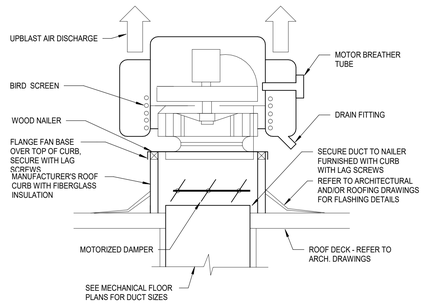
DATE	DESCRIPTION
09/18/24	BID SET

M1.34

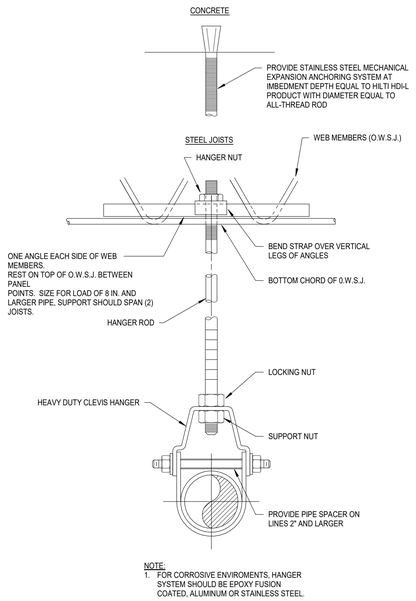
PROJECT NO.: 2023209



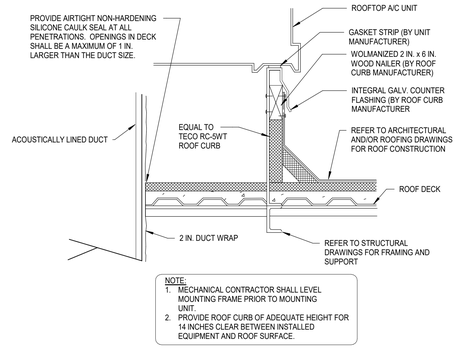
8 CONDENSATE DRAIN TRAP CONNECTION DETAIL
SCALE: NOT TO SCALE



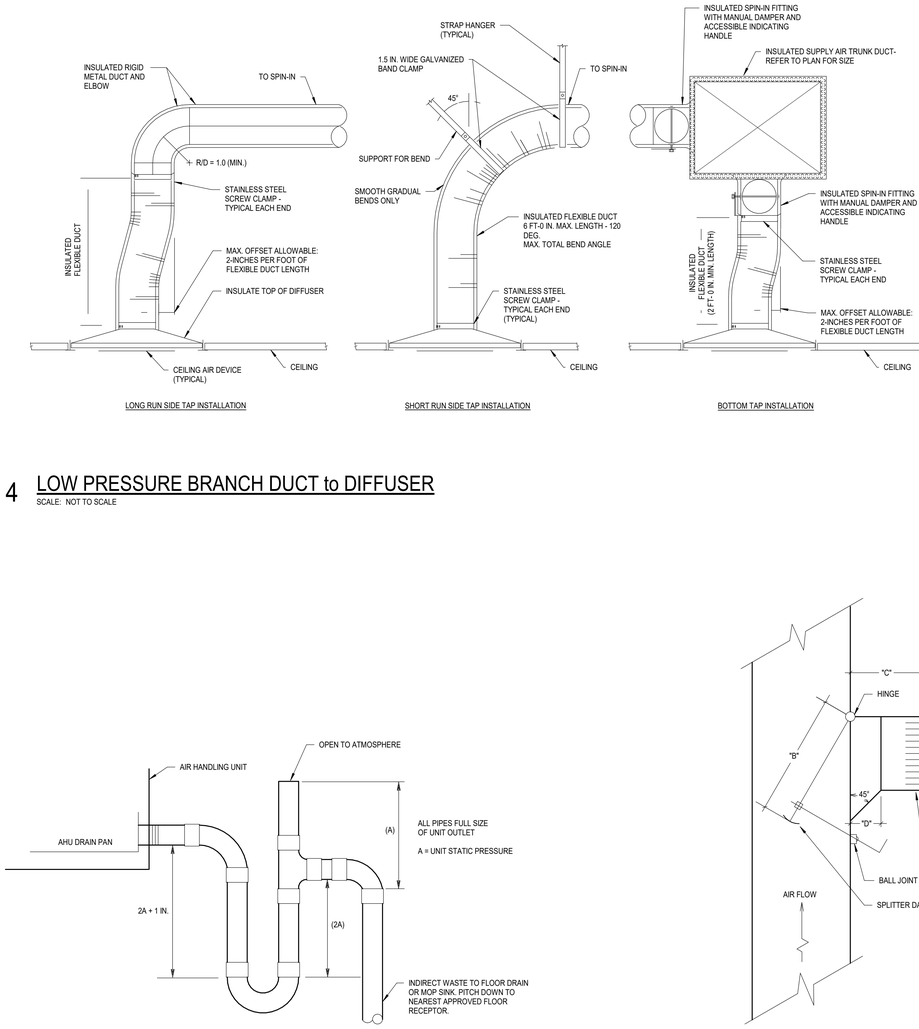
7 ROOFTOP CENTRIFUGAL EXH FAN DETAIL
NOT TO SCALE



6 SINGLE PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE



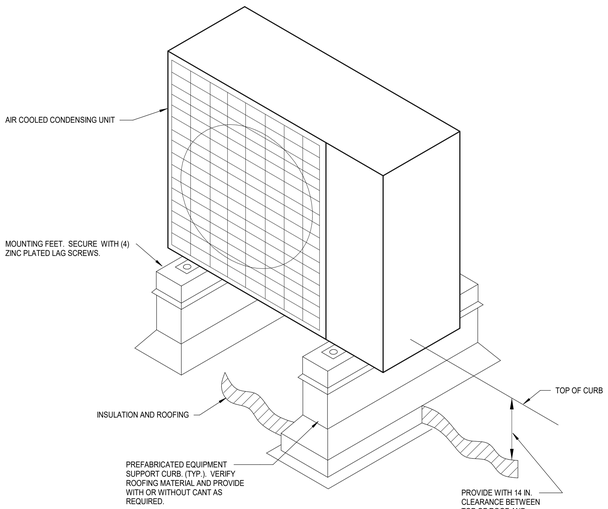
5 RTU CURB DETAIL
NOT TO SCALE



4 LOW PRESSURE BRANCH DUCT to DIFFUSER
SCALE: NOT TO SCALE

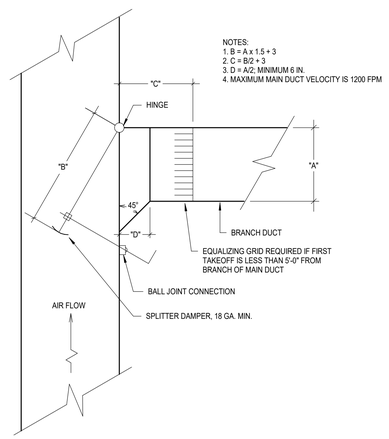
DETAIL NOTES:

1. THREE INSTALLATION OPTIONS ARE SHOWN. PROVIDE THE MOST SUITABLE OPTION BASED UPON ACTUAL DUCT LAYOUT, AIR DEVICE LOCATION, AND FIELD CONDITIONS. PREFERRED INSTALLATION IS SHORT RUN SIDE TAP. WHERE FLEXIBLE DUCT RUN EXCEEDS THE MAXIMUM ALLOWABLE LENGTH, PROVIDE THE LONG RUN SIDE TAP INSTALLATION.
2. INSULATED FLEXIBLE DUCT: U.L. LISTED CLASS 0 OR CLASS 1 AIR DUCT, TESTED IN ACCORDANCE WITH U.L. 181. MAXIMUM LENGTH ALLOWED IS 6 FEET. SIZE IS SAME AS AIR DEVICE NECK SIZE UNLESS OTHERWISE INDICATED.
3. SPIN-IN FITTING: FLARED TYPE WITH BUTTERFLY DAMPER AND INDICATING HANDLE. INSTALL DUCT INSULATION SO THAT DAMPER HANDLE IS ACCESSIBLE AND VISIBLE ON THE BOTTOM OR SIDE OF THE SPIN-IN FITTING.
4. PROVIDE ACCESS TO DAMPERS LOCATED ABOVE FINISHED CEILINGS OR PROVIDE REMOTE VOLUME CONTROL DAMPER (AS MANUFACTURED BY YOUNG REGULATOR) AND BOWEN CABLE CONTROL SYSTEM.
5. INSTALL FLEXIBLE DUCT FULLY EXTENDED WITH NO EXCESS LENGTH BETWEEN CONNECTION POINTS. MAKE SMOOTH ENDS WITHOUT DEFORMING DUCT CROSS-SECTION.
6. EXTEND FLEXIBLE DUCT A MINIMUM LENGTH OF 1.5 DUCT DIAMETERS, 6-INCH MINIMUM, STRAIGHT FROM CONNECTION TO AIR DEVICE BEFORE BENDING. PROVIDE 2'-0" MINIMUM LENGTH FOR BOTTOM TAP INSTALLATION TO ATTENUATE VOLUME DAMPER NOISE. MAKE SMOOTH BENDS WITHOUT DEFORMING DUCT CROSS-SECTION.
7. PROVIDE ROUND-TO-RECTANGULAR INSULATED SHEET METAL TRANSITION AT THE NECK OF THE CEILING AIR DEVICE FOR RECTANGULAR NECK DIFFUSERS/GRILLES.
8. SUPPORT FLEXIBLE DUCT AS RECOMMENDED BY MANUFACTURER. INSTALL USING 1 1/2 in. WIDE (MIN.) BAND CLAMP OR STRAP. MAXIMUM HANGER SPACING IS 4 FEET WITH A MAXIMUM PERMISSIBLE SAG OF 1/2" PER FOOT BETWEEN SUPPORTS. HANGERS MUST MAINTAIN ROUND DUCT SHAPE.
9. INSTALL DAMPER SO AS NOT TO IMPEDE INTO MAIN DUCT.



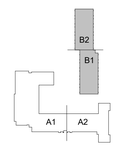
3 CONDENSING UNIT ROOF SUPPORT DETAIL
SCALE: NOT TO SCALE

2 CONDENSATE DRAIN DETAIL
SCALE: NOT TO SCALE



1 BRANCH DUCT DETAIL
SCALE: NOT TO SCALE

KEY MAP



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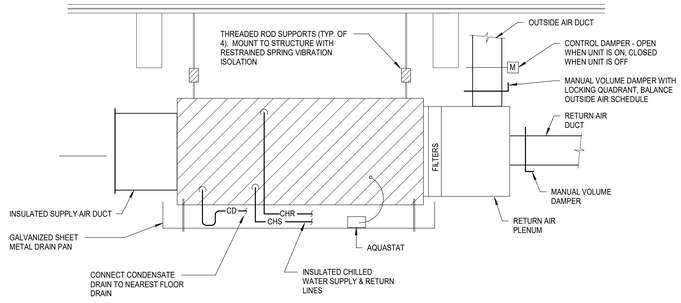
MECHANICAL DETAILS

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

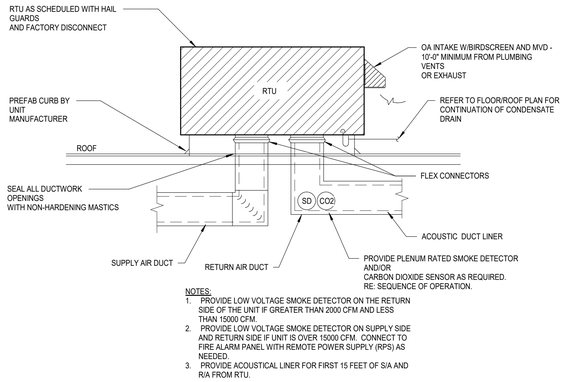
M3.01

PROJECT NO.: 2023209



2 TYPICAL FAN COIL UNIT DETAIL

SCALE: NOT TO SCALE



NOTES:
1. PROVIDE LOW VOLTAGE SMOKE DETECTOR ON THE RETURN SIDE OF THE UNIT IF GREATER THAN 2000 CFM AND LESS THAN 15000 CFM.
2. PROVIDE LOW VOLTAGE SMOKE DETECTOR ON SUPPLY SIDE AND RETURN SIDE IF UNIT IS OVER 15000 CFM. CONNECT TO FIRE ALARM PANEL WITH REMOTE POWER SUPPLY (RPS) AS NEEDED.
3. PROVIDE ACOUSTICAL LINER FOR FIRST 15 FEET OF S/A AND R/A FROM RTU.

1 ROOFTOP A-C UNIT DETAIL

SCALE: NOT TO SCALE

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MECHANICAL DETAILS

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M3.02

PROJECT NO.: 2023209

RTU SCHEDULE

DESIGNATION								SUPPLY FAN								COOLING COIL (DX)												HEATING COIL (NATURAL GAS)									
TAG	NUMBER	MANUFACTURER	MODEL	SERVES	LOCATION	MAX AIRFLOW (CFM)	MIN OUTSIDE AIR (CFM)	NUMBER	TOT S.P. (IN W.G.)	EST S.P. (IN W.G.)	AIRFLOW (CFM)	FAN RPM	DRIVE	MAX BHP	MOTOR HP	TOTAL CAP (MBH)	SENS CAP (MBH)	FACE VELOCITY (FPM)	ENT AIR TEMP DB (°F)	ENT AIR TEMP WB (°F)	LEAVE AIR TEMP DB (°F)	LEAVE AIR TEMP WB (°F)	MAX AIR ΔP (IN W.G.)	AMBIENT TEMP (°F)	# COMPRESSORS	REFRIGERANT	SEER	INPUT CAPACITY (MBH)	OPERATING GAS PRESSURE (IN. W.G.)	OUTPUT CAPACITY (MBH)	FACE VELOCITY (FPM)	ENT AIR TEMP DB (°F)	LEAVE AIR TEMP DB (°F)	MAX AIR ΔP (IN W.G.)	STAGES	EFF (%)
RTU	1	TRANE	YSC036G4RLB	MDF	ROOF	1200	250	1	0.56	0.5	1200	1725	DIRECT	0.4	0.75	34.5	28.6	490	80	67	54.0	53.0	0.2	105	1	R-454B	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RTU	2	TRANE	YSJ090A4SOL	CLASSROOMS	ROOF	3000	450	1	1.07	0.750	3000	1725	DIRECT	1.2	3.0	88.0	70.0	490	80	67	54.0	53.0	0.2	105	1	R-454B	15	120	11	97.2	490	65	85	0.02	2	80
RTU	3	TRANE	YSJ090A4SOL	CLASSROOMS	ROOF	3000	450	1	1.07	0.750	3000	1725	DIRECT	1.2	3.0	88.0	70.0	490	80	67	54.0	53.0	0.2	105	1	R-454B	15	120	11	97.2	490	65	85	0.02	2	80
RTU	4	TRANE	YSJ090A4SOL	CLASSROOMS	ROOF	3000	450	1	1.07	0.750	3000	1725	DIRECT	1.2	3.0	88.0	70.0	490	80	67	54.0	53.0	0.2	105	1	R-454B	15	120	11	97.2	490	65	85	0.02	2	80
RTU	5	TRANE	YSJ090A4SOL	CLASSROOMS	ROOF	3000	450	1	1.07	0.750	3000	1725	DIRECT	1.2	3.0	88.0	70.0	490	80	67	54.0	53.0	0.2	105	1	R-454B	15	120	11	97.2	490	65	85	0.02	2	80
RTU	6	TRANE	YSC036G4RLB	CLASSROOMS	ROOF	1200	250	1	0.56	0.5	1200	1725	DIRECT	0.4	0.75	34.5	28.6	490	80	67	54.0	53.0	0.2	105	1	R-454B	15	80	11	64	490	70	85	0.02	2	80
RTU	7	TRANE	YSJ090A4SOL	CLASSROOMS	ROOF	3000	450	1	1.07	0.750	3000	1725	DIRECT	1.2	3.0	88.0	70.0	490	80	67	54.0	53.0	0.2	105	1	R-454B	15	120	11	97.2	490	65	85	0.02	2	80
RTU	9	TRANE	YSJ090A4SOL	CLASSROOMS	ROOF	3000	450	1	1.07	0.750	3000	1725	DIRECT	1.2	3.0	88.0	70.0	490	80	67	54.0	53.0	0.2	105	1	R-454B	15	120	11	97.2	490	65	85	0.02	2	80
RTU	10	TRANE	YSJ090A4SOL	CLASSROOMS	ROOF	3000	450	1	1.07	0.750	3000	1725	DIRECT	1.2	3.0	88.0	70.0	490	80	67	54.0	53.0	0.2	105	1	R-454B	15	120	11	97.2	490	65	85	0.02	2	80
RTU	12	TRANE	YSC036G4RLB	MDF	ROOF	1200	250	1	0.56	0.5	1200	1725	DIRECT	0.4	0.75	34.5	28.6	490	80	67	54.0	53.0	0.2	105	1	R-454B	15	80	11	64	490	70	85	0.02	2	80

RTU SCHEDULE CONTINUED

DESIGNATION		PREFILTER		ELECTRICAL						
TAG	NUMBER	TYPE	MERV RATING	V	PH	HZ	MCA	MOCP	WEIGHT	NOTES
RTU	1	PLEATED	13	460	3	60	12	15	525	1-12
RTU	2	PLEATED	13	460	3	60	14	20	900	1-12
RTU	3	PLEATED	13	460	3	60	14	20	900	1-12
RTU	4	PLEATED	13	460	3	60	14	20	900	1-12
RTU	5	PLEATED	13	460	3	60	14	20	900	1-12
RTU	6	PLEATED	13	460	3	60	14	20	525	1-12
RTU	7	PLEATED	13	460	3	60	14	20	900	1-12
RTU	9	PLEATED	13	460	3	60	14	20	900	1-12
RTU	10	PLEATED	13	460	3	60	14	20	900	1-12
RTU	12	PLEATED	13	460	3	60	12	15	525	1-12

NOTES:
1. PROVIDE SINGLE POINT OF ELECTRICAL CONNECTION.
2. SENSIBLE AND TOTAL CAPACITIES INCLUDE FAN HEAT.
3. EXTERNAL PRESSURE DROP INCLUDES DUCTWORK, DAMPERS AND FILTER DIRT LOADING.
4. PROVIDE SMOKE DETECTOR IN RETURN DUCT OF ALL UNITS OVER 2,000 CFM. PROVIDE SMOKE DETECTOR IN SUPPLY AND RETURN DUCT IN ALL UNITS OVER 15,000 CFM.
5. UNIT DIMENSIONS DO NOT INCLUDE THE CURB HEIGHT.
6. PROVIDE FULL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF.
7. PROVIDE GFI OUTLET, HAIL GUARDS AND ELECTRICAL DISCONNECT.
8. PROVIDE DDC CONTROLS TO INTERFACE WITH BMS. SEE SPECIFICATIONS FOR CONTROL SEQUENCE.
9. ROOF CURB SHALL SIT ON ROOF DECK. CURB SHALL BE HIGH ENOUGH TO PROVIDE A MINIMUM OF 12 IN. CLEAR FROM TOP OF ROOF TO BOTTOM OF EQUIPMENT.
10. FILTERS SHALL BE CHANGED OUT AT CONSTRUCTION, TAB AND SUBSTANTIAL COMPLETION.
11. PROVIDE STEEL HAIL GUARDS PAINTED TO MATCH CASING.
12. PROVIDE ROOF CURB OF ADEQUATE HEIGHT FOR 14 INCHES CLEAR BETWEEN INSTALLED EQUIPMENT AND ROOF SURFACE.

MINI-SPLIT INDOOR UNIT

DESIGNATION			RELATED CONDENSING UNIT				FAN		COOLING COIL (DX)					ELECTRICAL DATA					DISCONNECT FURNISHED BY	DIMENSIONS, L x W x H (INCHES)	WEIGHT	DESIGN BASIS		NOTES
									EAT (°F)		CAPACITY (MBH)													
TAG	NUMBER	SERVES		MOUNTING	CFM	MIN. OA CFM	ESP (IN. W.G.)	FAN HP	DB	WB	RATED TOTAL	REFRIGERANT	SEER 2	MCA	MOCP	VOLTAGE	PHASE	HERTZ				MANUFACTURER	MODEL	
IU	1	RM.113A	OU-1	WALL MOUNT	883 CFM	0 CFM	0.25	1	81	67	33	R454B	14.3	23	30	208	1	60	ELECTRICAL CONTRACTOR	33-13-9.5	48	LG	LSN363HLV3	

MINI-SPLIT OUTDOOR UNIT

TAG	Mark	LOCATION	RELATED INDOOR UNIT	NET COOLING CAPACITY (MBH)	HEAT PUMP CAPACITY @47°F (MBH)	CONMPRESSORS		CONDENSER		ELECTRICAL DATA					DISCONNECT FURNISHED BY	SEER 2	DIMENSIONS, L x W x H (INCHES)	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
						COMPRESSOR QTY	REFRIGERANT	EAT (°F)	QTY	MCA	MOCP	VOLTS	PH	Hz							
OU	1	Roof	IU-1	33	35.2	1	R-410A	102	1	23 A	30 A	208	1	60	ELECTRICAL CONTRACTOR	14.3	37.5x13x54.5	207	LG	LSU363HLV3	

OUTDOOR UNIT NOTES:
1. DISCONNECT PROVIDED Y ELECTRICAL CONTRACTOR.
2. CONTRACTOR TO VERIFY PIPING DIMENSIONS WITH MANUFACTURER.
3. HEAT PUMP AND INDOOR UNITS TO BE MATCHED AND RATED BY THE MANUFACTURER AT THE SCHEDULED AMBIENT CONDITIONS.
4. HEAT PUMP TO BE PROVIDED WITH HAIL GUARDS.
5. PROVIDE BACNET CAPABLE THERMOSTAT.
6. FIELD SUPPLIED BRANCH FITTINGS ARE NOT PERMITTED. ONLY MANUFACTURER FITTINGS SHALL BE USED.
7. HOUSEKEEPING PAD TO BE 4 INCHES LARGER THAN MOUNTED EQUIPMENT ON ALL SIDES.

INDOOR UNIT NOTES:
1. PROVIDE UNITS POWERED THROUGH OUTDOOR UNIT.
2. PROVIDE EACH WALL MOUNTED UNIT WITH INTGRAL CONDENSATE PUMP.
3. PROVIDE WITH FACTORY INSTALLED LEAK DETECTION.
4. PROVIDE WITH REMOTE CONTROLLER.

SPLIT SYSTEM (INDOOR AIR HANDLING UNIT)

DESIGNATION			RELATED CONDENSING UNIT			FAN		COOLING COIL (DX)								ELECTRICAL DATA					DISCONNECT FURNISHED BY	FILTER TYPE	DIMENSIONS, L x W x H (INCHES)	WEIGHT	DESIGN BASIS		NOTES
								EAT (°F)		CAPACITY (MBH)		MAXIMUM FACE															
TAG	NUMBER	SERVES		MOUNTING	CFM	ESP (IN. W.G.)	FAN HP	DB	WB	SENSIBLE	TOTAL	VELOCITY (FPM)	REFRIGERANT	SEER 2	TEMPERATURE RISE (°F)	ELECTRIC HEAT (KW)	HEATER AMPS	MCA	MOCP	VOLTAGE	PHASE	HERTZ					MANUFACTURER	MODEL	
FCU	1	IDF	CU-1	SUSPENDED	1600 CFM	0.25	1	78	62	58	54	490	R-454B	14.3	20	9.6	11.5	19.1	20	208	1	60	ELECTRICAL CONTRACTOR	PLEATED	60 x 24 x 22	200	TRANE	GAM5B0C60	1-4

SPLIT SYSTEM (CONDENSING UNIT SCHEDULE)

TAG	Mark	LOCATION	RELATED INDOOR UNIT	NET COOLING CAPACITY (MBH)	HEAT PUMP CAPACITY @47°F (MBH)	CONMPRESSORS		CONDENSER		ELECTRICAL DATA					DISCONNECT FURNISHED BY	SEER 2	DIMENSIONS, L x W x H (INCHES)	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
						COMPRESSOR QTY	REFRIGERANT	EAT (°F)	QTY	MCA	MOCP	VOLTS	PH	Hz							
CU	1	ROOF	FCU-1	60	35.2	1	R-454B	105	1	12 A	10 A	208	1	60	ELECTRICAL CONTRACTOR	14.3	38 x 35 x 45	275	TRANE	4TTA7060A4	1-3

CODNENSING UNIT NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE FACTORY INSTALLED AND WIRED 120V/15A GFCI RECEPTACLE. RECEPTACLE SHALL REMAIN POWERED WHEN DISCONNECT IS SHUT OFF.
3. PROVIDE WITH HAIL GUARDS PAINTED TO MATCH CASING.

INDOOR UNIT NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. EXTERNAL PRESSURE DROP INCLUDES DUCTWORK, DAMPERS, AND ALLOWANCES FOR DIRTY FILTERS.
3. PROVIDE FILTERS FOR USE DURING CONSTRUCTION. REPLACE ALL FILTERS PRIOR TO FINAL TESTING AND BALANCING AND AGAIN AT SUBSTANTIAL COMPLETION.
4. PROVIDE 480V/3PH ELECTRIC HEATER WITH AUTO STEP DOWN TRANSFORMER FOR SUNGLE POINT POWER TO AIR HANDLING UNIT.

AIR DEVICE SCHEDULE

TAG	TYPE	MAX RADIATED NC	MANUFACTURER	MODEL	DESCRIPTION	NOTES
A	CEILING SUPPLY DIFFUSER	25	TITUS	TMS	24"x24" LOUVERED SUPPLY AIR DIFFUSER. COLOR TO BE APPROVED BY ARCHITECT. PROVIDE SECTORIZING BAFFLES WHERE ALTERNATE THROW DIRECTIONS ARE REQUIRED.	1 - 3
B	RETURN AIR DIFFUSER	25	TITUS	PAR	24"x24" PERFORATED FACE CEILING RETURN GRILLE; ALL STEEL; NECK SIZE AS INDICATED ON DRAWINGS; BAKED ENAMEL FINISH; COLOR TO BE APPROVED BY ARCHITECT.	1 - 3
E	CEILING CONCENTRIC DIFFUSER	25	TITUS	CSR-P	48" x 24" CONCENTRIC DIFFUSER WITH PLENUM AND ROUND INLET/OUTLET CONNECTIONS. COLOR TO BE APPROVED BY ARCHITECT.	1 - 3

NOTES:
1. COORDINATE ALL FRAME STYLES WITH ARCHITECTURAL ROOM FINISH SCHEDULE. PROVIDE MANUAL VOLUME DAMPERS AT EACH RUN-OUT DUCT TO DIFFUSERS AND GRILLES UNLESS NOTED OTHERWISE. ALL SQUARE DIFFUSERS ARE 4-WAY THROW UNLESS NOTED OTHERWISE BY FLOW ARROWS ON PLAN.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
3. PROVIDE REMOTE VOLUME DAMPER ADJUSTMENT FOR VOLUME DAMPERS LOCATED ABOVE A GYP. BOARD CEILING.

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09/18/24

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MECHANICAL EQUIPMENT SCHEDULES

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M4.01

PROJECT NO.: 2023209

CONTROL ABBREVIATIONS

#

2-D	TWO-DIMENSIONAL
3-D	THREE-DIMENSIONAL

A

AAC	ADVANCED APPLICATION CONTROLLER
AFMS	AIRFLOW MEASURING STATION
AFS	AIR FLOW SENSOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
ALT	ALTERNATOR
AO	ANALOG OUTPUT
ASC	APPLICATION SPECIFIC CONTROLLER
AX	AUXILIARY CONTACT

B

B	BOILER
BC	BUILDING CONTROLLER
BD	BACKDRAFT DAMPER
BMS	BUILDING MANAGEMENT SYSTEM

C

CB	CHILLED BEAM
CBCHW	CHILLED BEAM CHILLED WATER
CBHW	CHILLED BEAM HOT WATER
CC	COOLING COIL
CCDT	COOLING COIL DISCHARGE TEMPERATURE
CH	CHILLER
CHW	CHILLED WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CURRENT INPUT
CM	CONTROL MODULE
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
CSR	CURRENT SWITCH OR CURRENT SENSING RELAY
CR	CONTROL RELAY
CT	COOLING TOWER
CW	CONDENSER WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY

D

D	DAMPER
DDC	DIRECT DIGITAL CONTROL
DF	DIESEL FUEL
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	PRESSURE DIFFERENCE
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE SENSOR
DX	DIRECT EXPANSION

E

EA	EXHAUST AIR
ED	ENABLE / DISABLE
EF	EXHAUST FAN
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EP	ELECTRIC / PNEUMATIC RELAY
ES	END SWITCH

F

F	DEGREES FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FD	FIRE DAMPER
FDAT	FAN DISCHARGE AIR TEMPERATURE
FD/SD	COMBINATION FIRE AND SMOKE DAMPER
FM	FLOW METER
FR	FIELD RELAY
FS	FLOW SWITCH
FZ	FREEZESTAT

G

GCF	GARAGE CIRCULATION FAN
GEF	GARAGE EXHAUST FAN
GIF	GARAGE INTAKE FAN

H

H	HUMIDITY
HC	HEATING COIL
HHW	HEATING HOT WATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HI	HIGH
HL	HIGH LEVEL
HX	HEAT EXCHANGER

K

KW	KILOWATTS

L

LO	LOW
LL	LOW LEVEL
LV	LEVEL
LLT	LOW LIMIT TEMPERATURE

M

MAX	MAXIMUM
MAT	MIXED AIR TEMPERATURE
MIN	MINIMUM
MS	MOTOR STARTER

N

N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN

O

OA	OUTDOOR AIR
OAH	OUTDOOR AIR HUMIDITY
OAT	OUTDOOR AIR TEMPERATURE
OWS	OPERATOR WORK STATION

P

P	PUMP
PH	PENTHOUSE
PHDT	PREHEAT DISCHARGE TEMPERATURE
PMCS	POWER MONITORING & CONTROL SYSTEM
PPM	PARTS PER MILLION
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH

R

RA	RETURN AIR; REFRIGERANT ALARM
RAH	RETURN AIR HUMIDITY
RAT	RETURN AIR TEMPERATURE
RET	RETURN
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RLMS	REFRIGERANT LEAK MONITORING SYSTEM
RLF	RELIEF
ROT	ROTATION MONITORING SENSOR

S

S	SOLENOID
SA	SUPPLY AIR
SC	SELF CONTAINED UNIT
SD	SMOKE DAMPER; SMOKE DETECTOR
SF	SUPPLY FAN
SP	STATIC PRESSURE
SS	START / STOP
SV	SOLENOID VALVE
SW	SWITCH

T

T	TEMPERATURE SENSOR
TEF	TOILET EXHAUST FAN
TH	THERMOSTAT

V

V	VALVE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VO	VOLTAGE OUTPUT
VS	VIBRATION SWITCH

W

WC	WATER COLUMN

SEE CONTROL SYMBOLS, LEGENDS AND EQUIPMENT SCHEDULES FOR ADDITIONAL ABBREVIATIONS. ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWINGS ARE NOT NECESSARILY USED.

CONTROL SYMBOLS

SENSING COMPONENTS

- AIR FLOW MEASURING STATION (DUCT)
- FAN INLET BELL HOUSING AIR FLOW MEASURING STATION
- T — TEMPERATURE SENSOR
- T — TEMPERATURE SENSOR (AVERAGING)
- LLT — LOW LIMIT TEMPERATURE
- PS — PRESSURE SWITCH
- P — PRESSURE SENSOR OR PRESSURESTAT
- FS — FLOW SWITCH
- H — RELATIVE HUMIDITY SENSOR (DUCT)
- SD — SMOKE DETECTOR (DUCT)
- CO2 — CARBON DIOXIDE SENSOR (DUCT)
- CO — CARBON MONOXIDE SENSOR (DUCT)
- FM — FLOW METER
- L — LEVEL SENSOR
- LOW / LSL / HIGH — LOW STATIC LIMIT SENSOR
- LOW / HSL / HIGH — HIGH STATIC LIMIT SENSOR
- DPS — DIFFERENTIAL PRESSURE SWITCH
- DPT — DIFFERENTIAL PRESSURE SENSOR
- TS — SPACE TEMPERATURE SENSOR
- T — THERMOSTAT
- H — SPACE HUMIDITY SENSOR
- HU — HUMIDISTAT
- H — HYDROGEN SENSOR (WALL)
- CO2 — CARBON DIOXIDE SENSOR (WALL)
- CO — CARBON MONOXIDE SENSOR (WALL)
- G — AIR FILTER WITH DIFFERENTIAL PRESSURE SENSOR AND PRESSURE GAUGE

CONTROL COMPONENTS

- M — 2-WAY ELECTRIC CONTROL VALVE
- M — 3-WAY ELECTRIC CONTROL VALVE
- TH / M — 2-WAY CONTROL VALVE WITH INTEGRAL THERMOSTAT
- TH / M — 3-WAY CONTROL VALVE WITH INTEGRAL THERMOSTAT
- M — BUTTERFLY VALVE ELECTRIC ACTUATOR
- M — SEGMENTED BALL VALVE ELECTRIC ACTUATOR
- 2-WAY PNEUMATIC CONTROL VALVE
- 3-WAY PNEUMATIC CONTROL VALVE
- BUTTERFLY VALVE PNEUMATIC ACTUATOR
- SEGMENTED BALL VALVE PNEUMATIC ACTUATOR
- S — 2-WAY SOLENOID VALVE
- S — 3-WAY SOLENOID VALVE
- M — OPPOSED BLADE DAMPER - ELECTRIC ACTUATOR
- M — PARALLEL BLADE DAMPER - ELECTRIC ACTUATOR
- M / ES — OPPOSED BLADE DAMPER WITH END SWITCH - ELECTRIC ACTUATOR
- M / ES — PARALLEL BLADE DAMPER WITH END SWITCH - ELECTRIC ACTUATOR
- OPPOSED BLADE DAMPER - PNEUMATIC ACTUATOR
- PARALLEL BLADE DAMPER - PNEUMATIC ACTUATOR
- ES — OPPOSED BLADE DAMPER WITH END SWITCH - PNEUMATIC ACTUATOR
- ES — PARALLEL BLADE DAMPER WITH END SWITCH - PNEUMATIC ACTUATOR
- ES — OPPOSED BLADE DAMPER- PNEUMATIC ACTUATOR WITH POSITIONER
- PARALLEL BLADE DAMPER- PNEUMATIC ACTUATOR WITH POSITIONER

CONTROL ELECTRICAL COMPONENTS

- M — INTEGRAL FACE & BYPASS STEAM HEATING COIL
- H / C — HOT WATER, STEAM, OR GAS HEATING COIL
- C / C — CHILLED WATER COOLING COIL
- D / X — DIRECT EXPANSION HEATING & COOLING COIL
- E / C — WATERSIDE ECONOMIZER COOLING COIL
- R / C — ENERGY RECOVERY COIL
- ELECTRIC DUCT HEATER
- DH — GAS FIRED DUCT HEATER
- ELECTRIC HUMIDIFIER
- STEAM HUMIDIFIER
- GFH — GAS FIRED HUMIDIFIER
- UV — ULTRAVIOLET LIGHT AIR PURIFIER
- CENTRIFUGAL FAN OR PUMP
- FAN WITH PNEUMATIC VARIABLE INLET VANES
- PROPELLER TYPE FAN
- M — ROOF MOUNTED EXHAUST FAN (SINGLE PHASE)
- M — ROOF MOUNTED EXHAUST FAN (3 PHASE)
- PLATE AND FRAME HEAT EXCHANGER
- SHELL AND TUBE HEAT EXCHANGER

AX	AUXILIARY CONTACT
CI	CURRENT INPUT
CSR	CURRENT SENSING RELAY
CT	CURRENT TRANSDUCER
EN	ENABLE / DISABLE
SP	SET POINT
SS	START / STOP
VI	VOLTAGE INPUT
VO	VOLTAGE OUTPUT
VS	VIBRATION SWITCH
CS	CURRENT SWITCH
CM	CONTROL MODULE
TDR	TIME DELAY RELAY
MS	MOTOR STARTER
FA	FIRE ALARM INTERFACE
VFD	VARIABLE FREQUENCY DRIVE
ECM	ELECTRONICALLY COMMUTATED MOTOR
EPS	ELECTRIC TO PNEUMATIC SWITCH
EPV	ELECTRIC TO PNEUMATIC VALVE
ROT	ROTATION MONITORING SENSOR
UMCP	UNIT MANUFACTURER'S CONTROL PANEL
RLMS	REFRIGERANT LEAK MONITORING SYSTEM
FACP	FIRE ALARM CONTROL PANEL
EPB	EMERGENCY PUSH BUTTON
SW	WALL MOUNTED SWITCH
OR	OCCUPANCY OVER RIDE SWITCH
OS	OCCUPANCY SENSOR
R	REFRIGERANT LEAK MONITORING SYSTEM COMBINATION HORN/STROBE
	HORN OR SIREN
	BELL
ALT	ALTERNATOR
R	RELAY
T-1	POINT NAME'S INDENIFICATION (CORRESPONDS TO CONTROL ABBREVIATIONS)
1	POINT NUMBER (CONSECUTIVELY COUNTED)

FILTER TYPE DIAGRAMS

- FILTER
- BAG FILTER
- ROLL FILTER

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7900 Hume Dr. Dallas, TX 75227

MECHANICAL CONTROLS COVER SHEET

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

M6.01

PROJECT NO.: 2023209

CONTROLS SUMMARY

SCHOOL:	SAN JACINTO ES					
EQUIPMENT	DESIGNATION	LOCATION	SERVES	E/R/N*	BASE BID	NOTES
PACKAGED DX ROOFTOP UNIT	RTU-1	ROOF	CLASSROOM	N	YES	1 & 2
PACKAGED DX ROOFTOP UNIT	RTU-2	ROOF	CLASSROOM	N	YES	1 & 2
PACKAGED DX ROOFTOP UNIT	RTU-3	ROOF	CLASSROOM	N	YES	1 & 2
PACKAGED DX ROOFTOP UNIT	RTU-4	ROOF	CLASSROOM	N	YES	1 & 2
PACKAGED DX ROOFTOP UNIT	RTU-5	ROOF	CLASSROOM	N	YES	1 & 2
PACKAGED DX ROOFTOP UNIT	RTU-6	ROOF	CLASSROOM	N	YES	1 & 2
PACKAGED DX ROOFTOP UNIT	RTU-7	ROOF	CLASSROOM	N	YES	1 & 2
PACKAGED DX ROOFTOP UNIT	RTU-8	ROOF	CLASSROOM	R	YES	1 & 2
PACKAGED DX ROOFTOP UNIT	RTU-9	ROOF	CLASSROOM	N	YES	1 & 2
PACKAGED DX ROOFTOP UNIT	RTU-10	ROOF	CLASSROOM	N	YES	1 & 2
PACKAGED DX ROOFTOP UNIT	RTU-11	ROOF	CLASSROOM	R	YES	1 & 2
PACKAGED DX ROOFTOP UNIT	RTU-12	ROOF	CLASSROOM	N	YES	1 & 2
SPLIT SYSTEM	FCU-1 / CU-1	IDF / ROOF	LEVEL 02 IDF	N	YES	1 & 2
MINI-SPLIT SYSTEM	IU-1 / OU-1	IDF / ROOF	LEVEL 01 IDF	N	YES	1 & 2

* E= EXISTING CONTROLS TO REMAIN
R= EXISTING CONTROLS TO BE REPLACED
N= NEW EQUIPMENT WITH NEW CONTROLS

NOTES:
1) REFERENCE SPECIFICATION SECTION 23 09 24 FOR FURTHER CONTROLS REQUIREMENTS.
2) CONTROLS VENDOR TO SCREENSHOT EXISTING CONTROLS SYSTEM GRAPHICS FOR ENTIRE FACILITY PRIOR TO WORK COMMENCING AND SUBMIT THIS TO DALLAS ISD DESIGNATED REPRESENTATIVE.

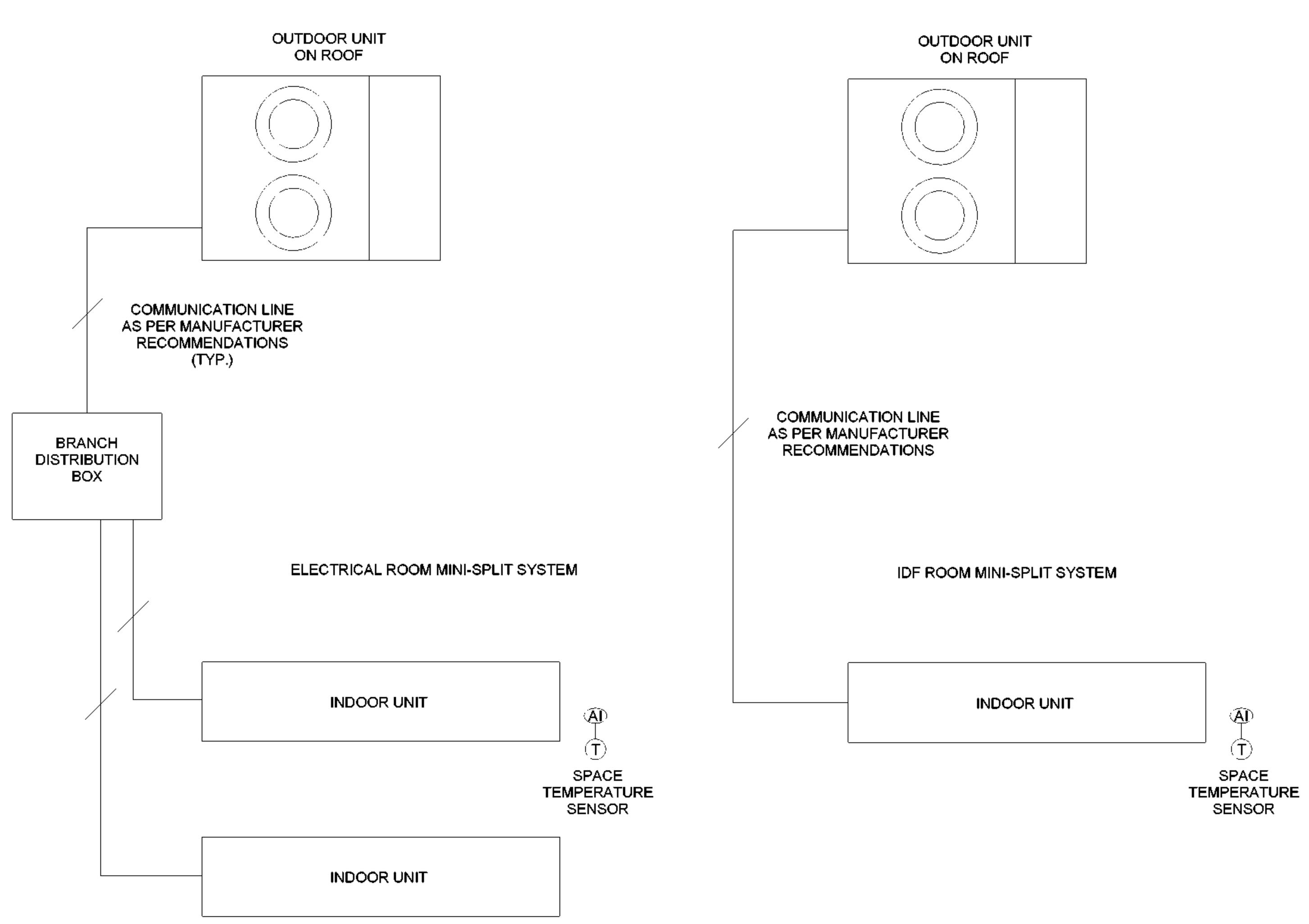
1.1 MDF / IDF Rooms:

A. General:

1. Units to have a standalone thermostat. Units to operate continuously.
2. The EMCS to monitor space temperature for all MDF/IDF rooms. The FMCS generates an alarm if the space temperature exceeds or drops below the assigned alarm limits (adjustable).

B. Control Points:

Description	Type
Space Temperature (Each Room)	AI



2 MINI-SPLIT CONTROL SCHEMATIC
SCALE: NOT TO SCALE

SINGLE ZONE DX RTU AND SPLIT SYSTEMS:

A. General:
1. System consists of a direct expansion (DX) cooling section, heating section, supply fan section and an outside air damper.
2. Temperature sensors for DX single zone RTU serving a classroom to have a blank face with occupancy override button.
3. Temperature sensors for DX RTU serving areas such as Administration, Gymnasiums, Auditoriums, Cafeterias, Kitchens, Choir, Dance and Band to have LCD screen with occupancy override and setpoint adjustment. These sensors to have tamper proof protective covers.

B. Unit Enabling/Disabling:
1. The ENCS optimum start/stop schedule defines the occupied/unoccupied mode of operation.
2. During unoccupied times, as required to maintain the unoccupied heating and cooling setpoints 55°F (adjustable) heating and 85°F (adjustable) cooling as sensed by the space temperature sensor.
3. When the override pushbutton is depressed, the unit indexes to the occupied mode for an adjustable period of time (initially 1 hour). After the override time period has expired, the unit reverts back to the unoccupied mode.

C. Fan Control: The units internal controller controls the fan speed. If unit requires fan speed to be controlled by external source, Contractor to provide everything necessary to achieve fan control as noted below.
1. Fan runs in low speed during first stage heating or cooling as set by TAB.
2. Fan runs in high speed during second stage heating or cooling as set by TAB.

D. Outside Air Damper Control:
1. Warm-up or Cool-down: The outside air damper to be closed.
2. Occupied Mode: EMCS monitors the CO2 level in the space:
   a. When CO2 levels are below 1100 ppm (adjustable), the outside air damper to be at the minimum position (adjustable) as set by TAB. Reference scheduled CFM.
   b. When CO2 levels are above 1200 ppm (adjustable), the outside air damper to be at the maximum position (adjustable) as set by TAB. Reference scheduled CFM.
3. Unoccupied Mode: The outside air damper to be closed.

E. Temperature Control:
1. Warm-up or Cool-down:
   a. The EMCS determines the required warm-up or cool-down period based on the optimized start algorithm.
   b. Upon enabling the unit, the unit heats and cools as required to maintain the occupied heating and cooling setpoints (initially 70°F heating, 74°F cooling) as sensed by a space temperature sensor.
   c. Once the occupied setpoint temperature has been reached, the EMCS switches theunit to the occupied mode.

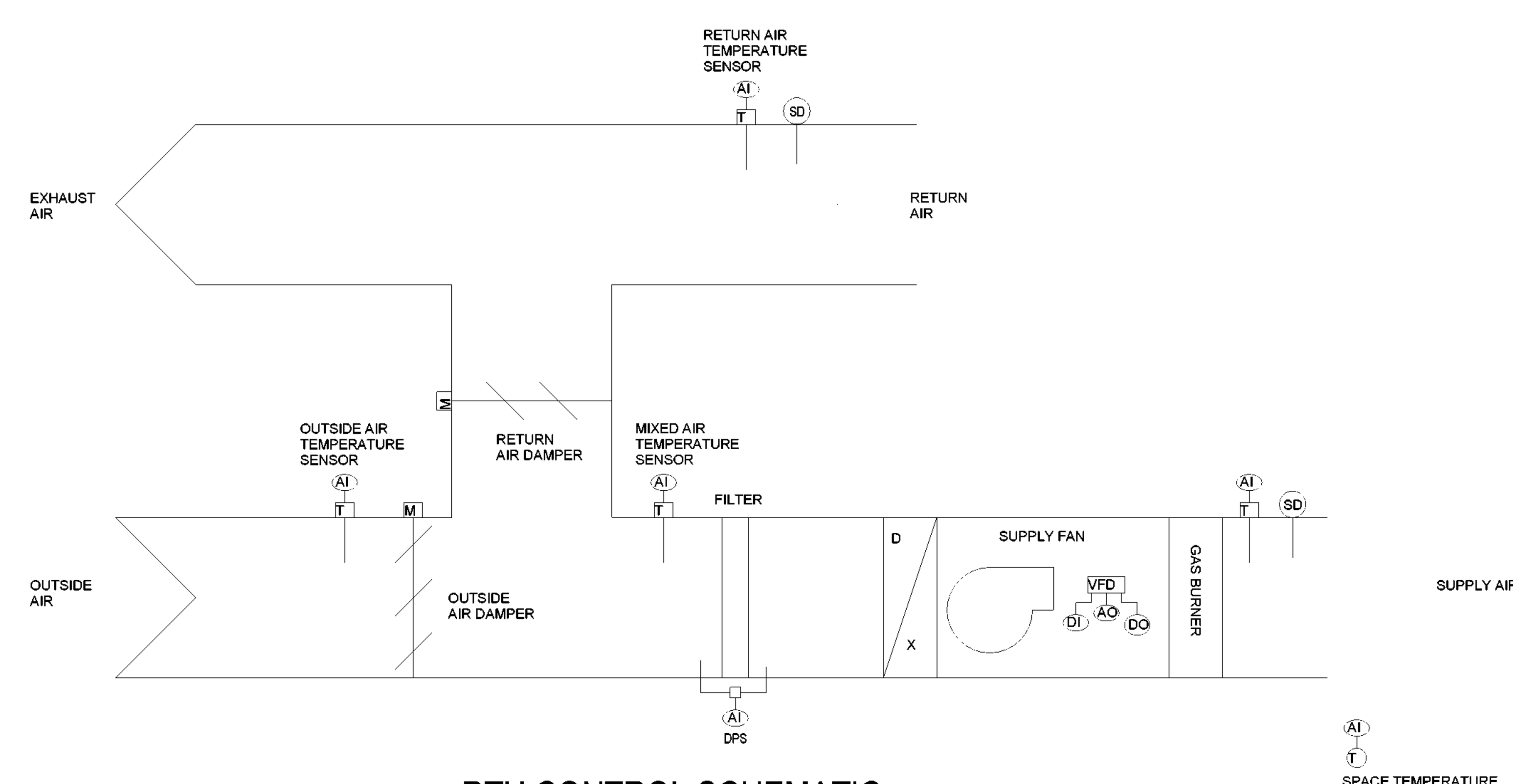
F. Occupied Mode:
1. Space set point to be user adjustable within ±2°F (adjustable).
2. In the occupied mode of operation, the unit supply fan cycles with a call for heating or cooling.
3. The unit heats and cools as required to maintain the occupied heating and cooling setpoints (initially 70°F heating, 74°F cooling) as sensed by a space temperature sensor.
4. When space temperature rises above occupied cooling setpoint, the DDC controller energizes the first stage of mechanical cooling. When space temperature continues to rise 2°F (adjustable) above occupied cooling setpoint, the DDC controller energizes the second stage of mechanical cooling.
   a. First Stage Cooling: Low speed supply CFM and first stage of compressor(s).
   b. Second Stage Cooling: High speed supply CFM and second stage of compressor(s).
   c. Unit runs in second stage cooling until space temperature drops to occupied space cooling setpoint. Unit then runs in first stage of cooling until space temperature drops 1°F (adjustable) below space temperature setpoint and then cycles off.
5. When space temperature drops below occupied heating setpoint, the DDC controller energizes the first stage of heating. When space temperature continues to drop 2°F (adjustable) below occupied heating setpoint, the DDC controller energizes the second stage of heating.
   a. First Stage Heating: Low speed supply CFM and first stage of heating.
   b. Second Stage Heating: High speed supply CFM and second stage of heating.
   c. Unit runs in second stage heating until space temperature rises to occupied space heating setpoint. Unit then runs in first stage heating until space temperature rises 1°F (adjustable) above space temperature setpoint and then cycles off.

G. Unoccupied Mode:
1. The EMCS enables the unit as required to maintain the unoccupied heating and cooling setpoints (initially 55°F heating and 85°F cooling) as sensed by the space temperature sensor.
2. When override button is pushed, the unit indexes to occupied mode for one (1) hour (adjustable). After the override time has expired, the unit reverts to unoccupied mode.

H. Dry Bulb Economizer Mode (Utilize when economizer exemption cannot be taken):
1. In occupied or unoccupied mode, when space temperature is above space setpoint, outside air temperature is 60°F (adjustable) or below and there is a call for cooling, the unit be in economizer mode. Outside air damper opens 100% and provides free cooling to the space until the space temperature setpoint is satisfied. If space is not satisfied within 10 min (adjustable), mechanical cooling enables.
2. Units equipped with a powered exhaust fan, the fan enables any time the unit is in economizer mode.
3. The EMCS Contractor to provide an control all sensors necessary for economizer mode operation and FDD.
4. Fault Detection and Diagnostics (FDD) (Utilize when economizer exemption cannot be taken): Each DX rooftop unit to have its economizer status monitored by the EMCS. The unit's fault detection and diagnostics shall be capable of generating a visible alarm to be seen by the EMCS should the unit be in economizer when conditions are not met, or vice versa. Provide all necessary points to accomplish economizer control and economizer failure alarm, including outside air damper control to satisfy 2020 IECC.

I. Control Points:

Description	Type
Supply Fan Amps/Status	AI
Compressor Amps/Status (Each Compressor)	AI
Mixed Air Temperature	AI
Supply Air Temperature	AI
Outside Air Temperature (Global)	AI
Space Temperature	AI
Space CO2 Concentration	AI
Outside Air Damper Feedback	AI
Fan Start/Stop Command (Each Fan)	DO
Fan Speed (Only If Required by Unit)	AO
Compressor Cooling Command (Each Stage)	DO
Heating Command (Each Stage)	DO
Outside Air Damper	AO



1 RTU CONTROL SCHEMATIC
SCALE: NOT TO SCALE

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MECHANICAL CONTROL SCHEMATICS

DRAWING RECORD

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M6.02

PROJECT NO.: 2023209

PLUMBING ABBREVIATIONS, GENERAL NOTES AND SYMBOLS

ABBREVIATIONS

A	AIR - COMPRESSED
ABV	ABOVE
A/C	AIR CONDITIONING
AD	ACCESS DOOR or PANEL
ADR	AREA DRAIN
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
AI	ANALOG INPUT
AMP	AMPERE
AO	ANALOG OUTPUT
BAS	BUILDING AUTOMATION SYSTEM
BCV	BALL CHECK VALVE
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BR	BRANCH
BT	BATHTUB
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACK WATER VALVE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
CI	CAST IRON
CL	CENTERLINE
CO	CLEANOUT
CRU	COMPUTER ROOM UNIT
CU	CONDENSING UNIT
CW	COLD WATER
DB	DRY BULB
DCWR	DOMESTIC COLD WATER RECIRCULATION
DCW	DOMESTIC COLD WATER
DHWR	DOMESTIC HOT WATER RECIRCULATION
DHW	DOMESTIC HOT WATER
DF	DRINKING FOUNTAIN
DI	DIGITAL INPUT
DIA	DIAMETER
DN	DOWN
DO	DIGITAL OUTPUT
DR	DRAIN
DS	DOWN SPOUT
DW	DOMESTIC WATER
DWG	DRAWING
DVB	DISHWASHER VALVE BOX
EFF	EFFICIENCY
ELEC	ELECTRICAL
ELEV	ELEVATION
EP	EXPLOSION PROOF
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EX	EXISTING
F	FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER or FLOOR DRAIN
FH	FIRE HYDRANT
FLEX	FLEXIBLE
FP	FIRE PROTECTION
FPB	FAN POWERED BOX
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	WATERFLOW SWITCH or FLOOR SINK
FU	FIXTURE UNIT
FV	FLUSH VALVE-FLUSHOMETER
FT	FOOT or FEET
G	GAS LOW PRESSURE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEAN OUT
GEN	GENERATOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GLOBE VALVE
HD	HUB DRAIN
HH	HAND HOLE
HOA	HANDS-OFF AUTOMATIC SWITCH
HP	HORSEPOWER
HR	HOSE RACK
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HVC	HOSE VALVE CABINET
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
IVB	ICE MAKER VALVE BOX
INV	INVERT
KW	KILOWATTS (1000 WATTS)
L	LAVATORY
LF	LINEAR FEET
LG	LENGTH
LS	LAUNDRY SINK
LT	LIGHT
MAN	MANUAL
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM, MINUTE
MSB	MOP SINK BASIN
N	NEW
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED or NOISE CRITERIA
NO	NORMALLY OPEN or NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED or CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED or OWNER INSTALLED
OFL	OVERFLOW LEADER
ORD	OVERFLOW ROOF DRAIN
P/A	PRE-ACTION
PA	PUBLIC ANNOUNCEMENT
PC	PLUG COCK or PULL CHAIN
PE	PNEUATIC ELECTRIC SWITCH
PH	PHASE
PIV	POST INDICATOR VALVE
PO	PLUGGED OUTLET
PRESS	PRESSURE
PR	PRESSURE REGULATOR
PRV	PRESSURE REDUCING or RELIEF VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PTRV	PRESSURE-TEMPERATURE RELIEF VALVE
PVC	POLYVINYL CHLORIDE
PWR	POWER
R	RELAY
RA	RETURN AIR
RD	ROOF DRAIN
REC	RECESSED
RED	REDUCER
RVB	REFRIGERATOR VALVE BOX
S	SINK
SAN	SANITARY SEWER
SSS	START STOP STATION
SA	SUPPLY AIR SAN SANITARY
SD	SMOKE DAMPER
SE	SERVICE ENTRANCE
SF	SUPPLY FAN, SQUARE FEET SENS SENSIBLE
SH	SHOWER or SHOWER HEAD or SUPPLY HOOD
SPEC	SPECIFICATION
SPRK	SPRINKLER
SHDR	SHOWER DRAIN
SP	STATIC PRESSURE
ST	STACK or STORM DRAIN
STSTL	STAINLESS STEEL
SV	SOLENOID VALVE
SW	STORM WATER
TCO	TWO-WAY CLEANOUT
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TSTAT	THERMOSTAT
TYP	TYPICAL
U	URINAL
UF	UNDERFLOOR
UG	UNDERGROUND UN UNION
UH	UNIT HEATER
V	VENT or VOLT
VAV	VARIABLE AIR VOLUME TERMINAL UNIT
VB	VACUUM BREAKER
VEL	VELOCITY
VOL	VOLUME
VP	VAPORPROOF
VTR	VENT THRU ROOF
W	WATT or WIRE
W/	WITH
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WASHER/DRYER CONNECTIONS
WG	WATER GAUGE
WHYD	WALL HYDRANT
WMB	WASHING MACHINE BOX
WP	WEATHERPROOF
WS	WASH SINK
YCO	YARD CLEANOUT
YD	YARD DRAIN
YH	YARD HYDRANT

PIPE LINE STYLES

- DOMESTIC COLD WATER
- NATURAL GAS

GENERAL DEMOLITION NOTES

1. THE SCOPE OF DEMOLITION WORK INCLUDES DEMOLITION AND REMOVAL OF ALL EXISTING PLUMBING EQUIPMENT AND PIPING SHOWN TO BE REMOVED ON THE DEMOLITION DRAWINGS.

2. LOCATION OF EXISTING EQUIPMENT AND PIPING SHOWN ON THESE DRAWINGS IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR THE CAREFUL STUDY OF ALL PROPOSED WORK, THE VERIFICATION OF FIELD CONDITIONS, AND THE PERFORMANCE OF COMPLETE DEMOLITION WORK RELATED THERETO.

3. ALL ITEMS CALLED OUT FOR "SALVAGE" SHALL BE CLEANED. COORDINATE WITH THE OWNER ITEMS TO BE "SALVAGED" AND DELIVERED TO THE OWNER IN AN ORDERLY MANNER.

4. ALL DEMOLITION MATERIALS NOT SALVAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE. ALL METALS SHALL BE DISPOSED IN A METAL DUMPSTER. CONTRACTOR SHALL SUPPLY METAL DUMPSTER AND LOCATION SHALL BE COORDINATED WITH THE OWNER.

5. CONTRACTOR SHALL SUBMIT A DEMOLITION PHASING PLAN TO THE ARCHITECT FOR REVIEW AND COMMENT PRIOR TO IMPLEMENTING DEMOLITION ACTIVITIES.

6. EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE ALL UTILITIES AFFECTED BY CONSTRUCTION ACTIVITIES AND SHALL PROTECT THEM FROM DAMAGE OR ADJUST AS NECESSARY TO ACTUAL CONDITIONS.

7. CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUTDOWNS AND TESTING WITH THE OWNER.

8. NO EQUIPMENT SHALL BE REMOVED/DEMOLISHED BEFORE REPLACEMENT EQUIPMENT ARRIVES ON SITE AND VERIFIED FROM OWNER THAT EQUIPMENT CAN BE REMOVED/DEMOLISHED.

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL ACCUMULATE ALL RELATED INFORMATION FROM THEIR SUB-CONTRACTORS AND SUPPLIERS THAT WILL ALLOW THE GENERAL CONTRACTOR TO INCORPORATE ALL ELEMENTS AND WORK OF ALL TRADES INTO A FULLY COORDINATED AUTO-CAD DRAWING THROUGH AREAS OF DENSE MECHANICAL, ELECTRICAL, CABLE TRAYS, PLUMBING, SECURITY, PA SYSTEM AND FIRE PROTECTION SYSTEMS PRIOR TO THE FABRICATION OR INSTALLATION OF ANY WORK SO AS TO CONFIRM PROPER ACCESS TO ALL ELEMENTS FOR PROPER OPERATION AND MAINTENANCE SERVICE SPACE.

2. ALL WORK BY CONTRACTOR SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES INCLUDING THE CURRENT ENERGY CONSERVATION CODE.

3. MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT SHALL BE NEW AND SHALL BEAR THE U.L. LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER COMPLETION AND ACCEPTANCE BY THE OWNER.

4. CONTRACTOR SHALL INSTALL SYSTEMS WITHOUT INTERFERENCE AND IN STRICT COORDINATION WITH OTHER TRADES.

5. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING OF SUCH DIFFERENCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH REQUIREMENTS OF APPLICABLE CODES AND STANDARDS HE SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECTS.

6. PROVIDE ACCESS, INCLUDING NECESSARY ACCESS DOORS, FOR EQUIPMENT REQUIRING ADJUSTMENT OR MAINTENANCE. LOCATE ALL EQUIPMENT SUCH THAT OPERATION OR MAINTENANCE IS NOT RESTRICTED.

7. DO NOT RUN PIPING OR LOCATE EQUIPMENT, WITH RESPECT TO SWITCHBOARDS, PANELBOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS WITHIN APPLICABLE CODE CLEARANCES OR MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES, WHICHEVER IS GREATER.

8. THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.

9. PIPE LOCATIONS SHOWN ARE FOR ILLUSTRATION ONLY. LOCATE SERVICE LINES AND DROPS AGAINST WALLS AND BEHIND EQUIPMENT WHERE POSSIBLE.

10. FOR EACH WASTE WATER LATERAL, CONTRACTOR SHALL SUPPLY, INSTALL, AND CONNECT SERVICE TO EQUIPMENT. SLOPE WASTE WATER A MINIMUM OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.

11. REFER TO PLUMBING SPECIFICATIONS FOR PRESSURE TESTING OF SYSTEM PRIOR TO FINAL HOOK-UP.

12. CONTRACTOR SHALL LABEL NEW PIPE SPECIFYING UTILITY TYPE AT MAXIMUM 20 FOOT INTERVALS. LETTERING FOR PIPING 2 1/2" OR SMALLER SHALL BE 3/4" MINIMUM. LETTERING FOR PIPING 3" AND LARGER SHALL BE 1 1/2" MINIMUM. SEE PLUMBING SPECIFICATIONS.

13. PROVIDE CLEANOUTS AT NO MORE THAN 75 FT. APART IN HORIZONTAL SANITARY DRAINAGE LINES 4" SIZE OR LESS.

14. SECURE AND VERIFY ALL MEASUREMENTS AND CONDITIONS AT JOB BEFORE PROCEEDING WITH FABRICATION OF WORK.

15. ROUGH IN ALL PIPING THROUGH FACE OF WALL WHERE POSSIBLE, EXCEPT IN OUTSIDE WALLS. TERMINATE WITH SHORT NIPPLE AND CAP.

16. ALL FIXTURES TO BE EQUIPPED WITH STOP VALVES IN ACCESSIBLE LOCATIONS.

17. COORDINATE EXACT LOCATION AND INVERT ELEVATION OF ALL SANITARY AND DOMESTIC WATER PIPING EXITS FROM STRUCTURE WITH THE SITE UTILITY CONTRACTOR.

18. REFER TO DRAINAGE AND UTILITY DRAWINGS FOR CONTINUATION OF ALL PIPING BEYOND 5'-0" FROM BUILDING.

19. CONTRACTOR SHALL COORDINATE INVERT ELEVATIONS OF DOMESTIC WATER, SANITARY SEWER, AND GAS LINE WITH THE CIVIL ENGINEER WHERE CROSSING OCCURS.

20. CONTRACTOR SHALL SLEEVE ALL PIPING THAT PASSES THROUGH THE GRADE BEAM WITH A SLEEVE DIAMETER 2 INCHES GREATER THAN PIPE DIAMETER. SLEEVE SHALL BE LOCATED AT MID-DEPTH OF GRADE BEAM OR OTHERWISE CONTACT ENGINEER FOR APPROVAL.

20. CONTRACTOR SHALL ROUTE CONDENSATE LINES FROM AIR HANDLING UNITS TO APPROVED RECEPTORS. SLOPE CONDENSATE AT 1/8" PER FOOT UNLESS OTHERWISE NOTED ON DRAWINGS.

PLUMBING DESIGN CRITERIA

REFERENCE CODES AND STANDARDS

A.2	INTERNATIONAL BUILDING CODE 2021 W/ DALLAS AMMENDMENTS
B.2	INTERNATIONAL PLUMBING CODE 2021 W/ DALLAS AMMENDMENTS
C.2	INTERNATIONAL FUEL GAS CODE 2021 W/ DALLAS AMMENDMENTS
D.2	INTERNATIONAL ENERGY CONSERVATION CODE 2021 W/ DALLAS AMMENDMENTS
E.2	CITY OF DALLAS BUILDING CODE FOR GREEN CONSTRUCTION 2015

SYMBOLS

- ACCESS PANEL FOR TRAP PRIMER -RISER DIAGRAM
- ACCESS PANEL LOCATION SYMBOL (AP)
- AIR CHAMBER - RISER DIAGRAM
- ANGLE VALVE
- ASME TEMPERATURE & PRESSURE RELIEF VALVE
- BALANCING VALVE
- BALL VALVE
- BRANCH CONNECTION OUT OF BOTTOM
- BRANCH CONNECTION OUT OF SIDE
- BRANCH CONNECTION OUT OF TOP
- BUTTERFLY VALVE
- CAP ON END OF PIPE
- CLEANOUT (WALL OR CEILING)
- DELTA CHANGE SYMBOL (1)
- ECCENTRIC REDUCER
- EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD
- FIRE DEPARTMENT CONNECTION
- FIRE DEPARTMENT VALVE AT RISER
- FIRE HYDRANT
- FLOOR CLEANOUT
- FLOW DIRECTIONAL ARROW
- FLOOR DRAIN
- FLOOR DRAIN WITH P-TRAP
- FLOOR DRAIN WITH P-TRAP AT 45° ANGLE
- FLOW INDICATING BALANCE
- FLOOR SINK (FS)
- FLOW SWITCH
- GAS METER
- GAS PRESSURE REGULATOR (PR)
- HORIZONTAL SWING CHECK
- HOSE BIBB
- HUB DRAIN
- INVERT ELEVATION (IE=100.00')
- LUBRICATED PACKED PLUG STOP COCK
- NEW TO EXISTING CONNECTION
- OS&Y VALVE
- PIPING DOWN
- PIPING UP -OR- PIPING UP & DOWN
- POINT OF DISCONNECTION
- PRESSURE GAUGE WITH COCK
- PRESSURE REDUCING VALVE
- REDUCER OR INCREASER
- REDUCED PRESSURE BACKFLOW PREVENTER
- REFER TO KEYED DEMO NOTE (1)
- RISE OR DROP PIPING
- RISER FLAG (P 1)
- ROOF DRAIN - RISER DIAGRAM
- SHOCK ABSORBER WITH ACCESS PANEL - RISER DIAGRAM (A)
- SHUT-OFF VALVE
- SLOPE INDICATOR (1/4" / 1'-0")
- SOLENOID VALVE
- STRAINER
- TEST COCK
- THERMOMETER
- TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD)
- UNION
- VACUUM RELIEF VALVE
- VALVE IN RISE
- WALL HYDRANT
- WYE & 1/8TH BEND BRANCH CONNECTION
- WYE BRANCH CONNECTION

NOTE: *SOME SYMBOLS MAY NOT BE USED.*

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PLUMBING COVER

DRAWING RECORD

DATE	DESCRIPTION
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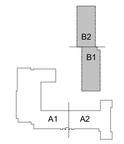
KEY MAP

KEY MAP



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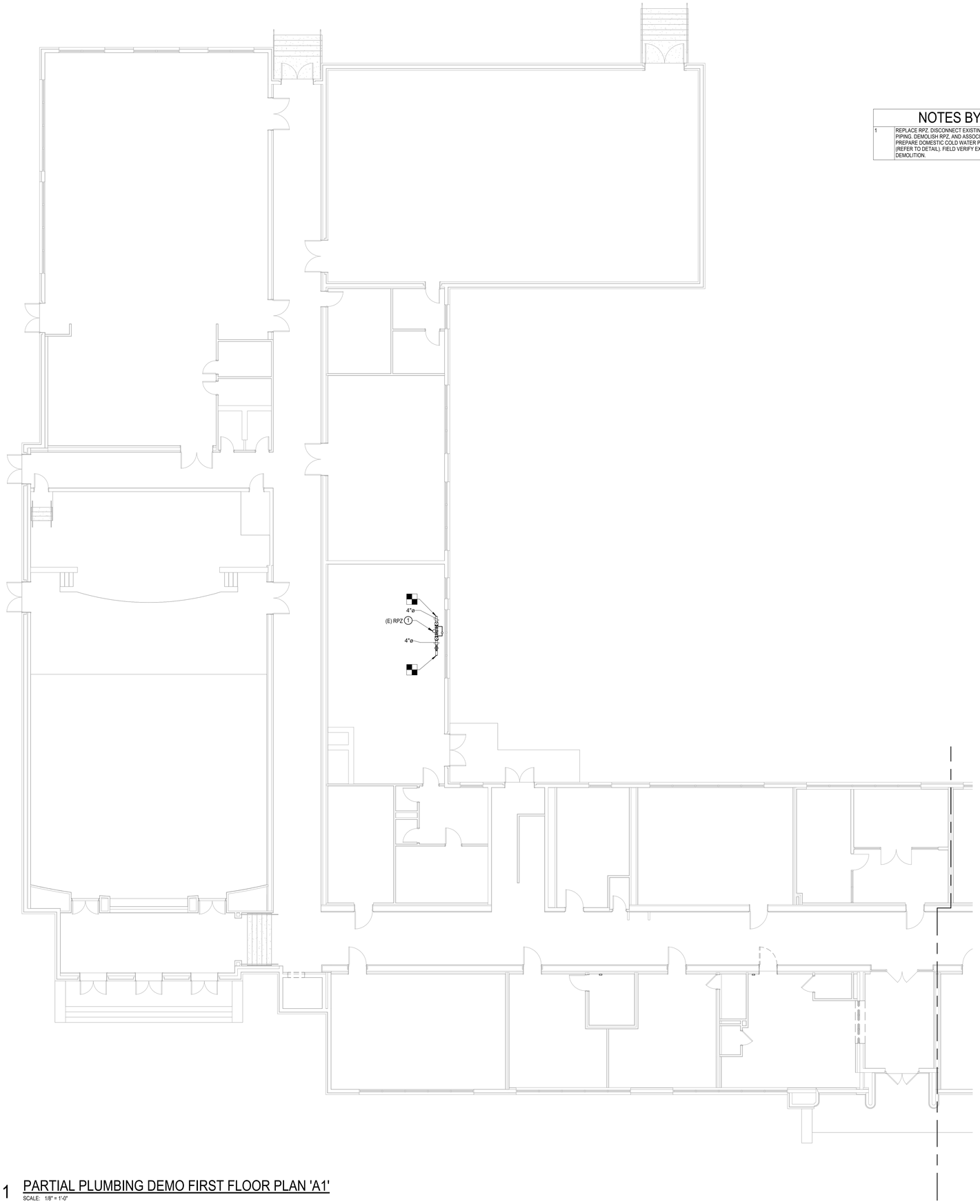


LEGEND

———	EXISTING TO REMAIN
- - - - -	DEMOLITION
▭	NOT IN SCOPE

NOTES BY SYMBOL:

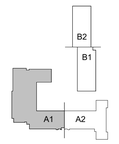
1	REPLACE RPZ. DISCONNECT EXISTING RPZ FROM DOMESTIC COLD WATER PIPING. DEMOLISH RPZ, AND ASSOCIATED PRESSURE REGULATING VALVE. PREPARE DOMESTIC COLD WATER PIPING FOR CONNECTION TO NEW RPZ. (REFER TO DETAIL). FIELD VERIFY EXACT LOCATION AND SIZE OF RPZ PRIOR TO DEMOLITION.

TRUE NORTH

1 PARTIAL PLUMBING DEMO FIRST FLOOR PLAN 'A1'

SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL PLUMBING DEMO FIRST FLOOR PLAN 'A1'

DRAWING RECORD

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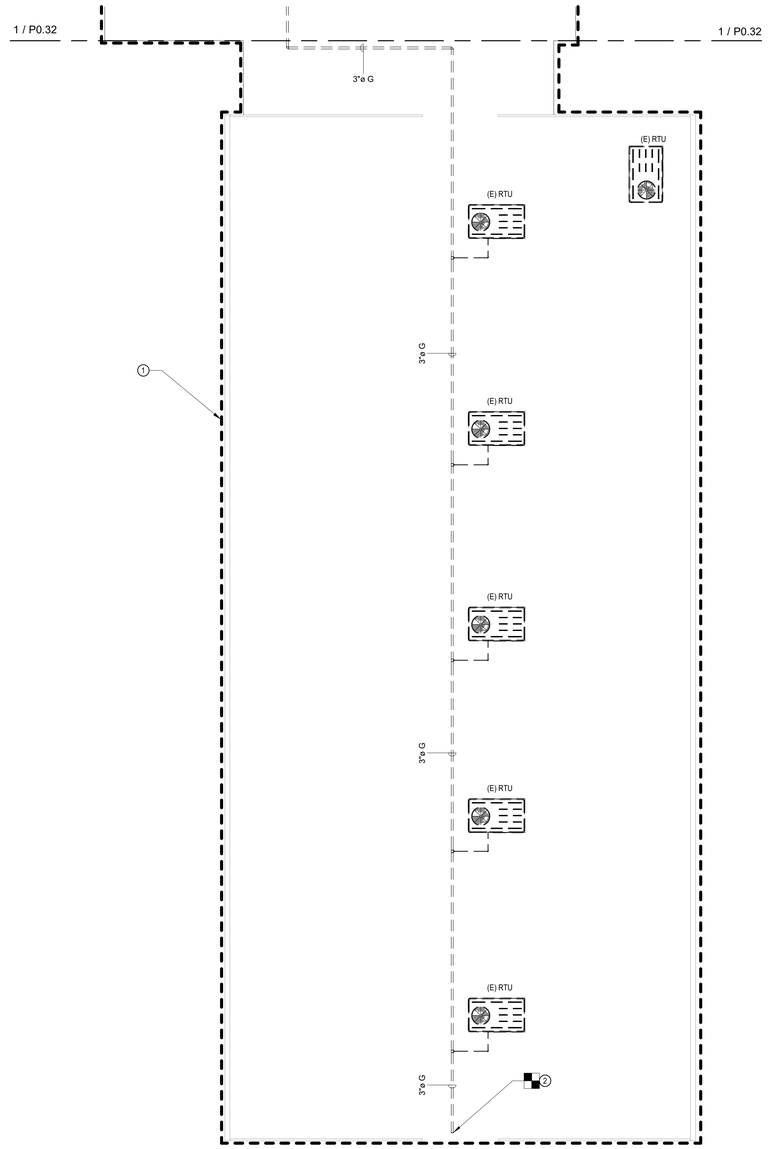
LEGEND	
	EXISTING TO REMAIN
	DEMOLITION
	NOT IN SCOPE

NOTES BY SYMBOL:	
1	IN AREAS WHERE ROOF IS BEING REPLACED: DEMOLISH ROOFTOP GAS PIPING. DEMOLISH GAS PIPING CONNECTIONS TO RTUs. FIELD VERIFY EXACT SIZE OF GAS PIPING PRIOR TO DEMOLITION.
2	DISCONNECT GAS PIPING AT RISE UP SIDE OF BUILDING. PREPARE PIPING FOR CONNECTION TO NEW NATURAL GAS PIPING. FIELD VERIFY EXACT SIZE OF EXISTING GAS PIPING PRIOR TO DEMOLITION.

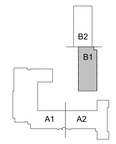


TRUE NORTH

1 PARTIAL PLUMBING DEMO ROOF PLAN 'B1'

SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL PLUMBING DEMO ROOF PLAN 'B1'

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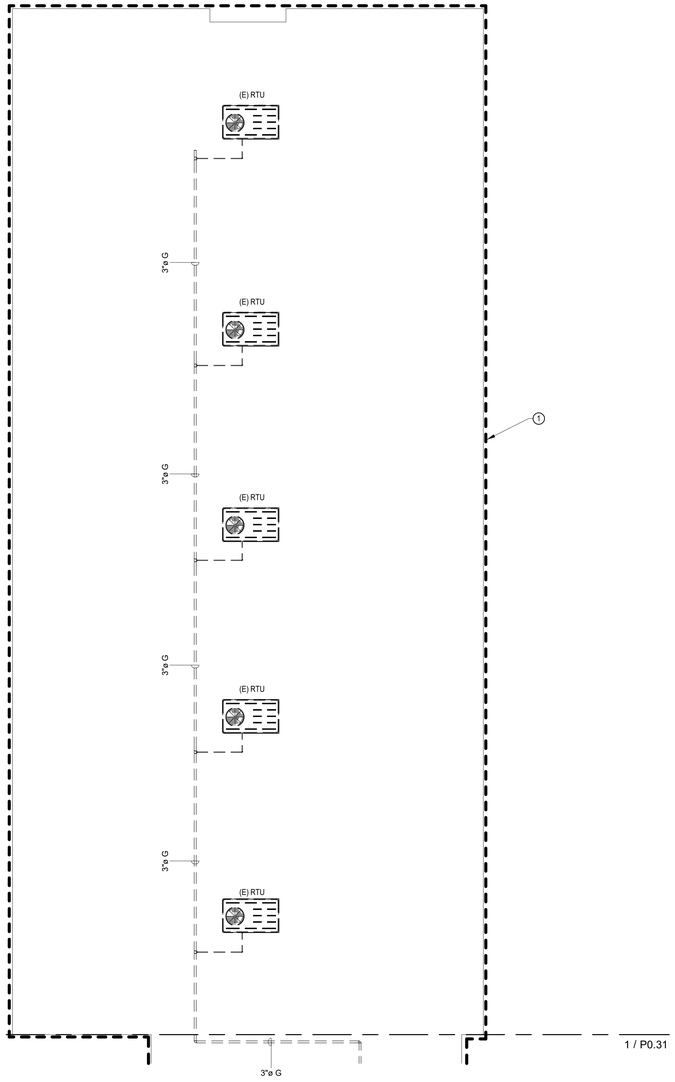
PROJECT NO.: 2023209

LEGEND	
———	EXISTING TO REMAIN
- - - - -	DEMOLITION
	NOT IN SCOPE

NOTES BY SYMBOL:

1	IN AREAS WHERE ROOF IS BEING REPLACED: DEMOLISH ROOFTOP GAS PIPING. DEMOLISH GAS PIPING CONNECTIONS TO RTUs. FIELD VERIFY EXACT SIZE OF GAS PIPING PRIOR TO DEMOLITION.

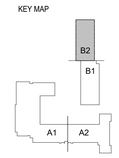


TRUE NORTH

1 PARTIAL PLUMBING DEMO ROOF PLAN 'B2'

SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL PLUMBING DEMO ROOF PLAN 'B2'

DRAWING RECORD

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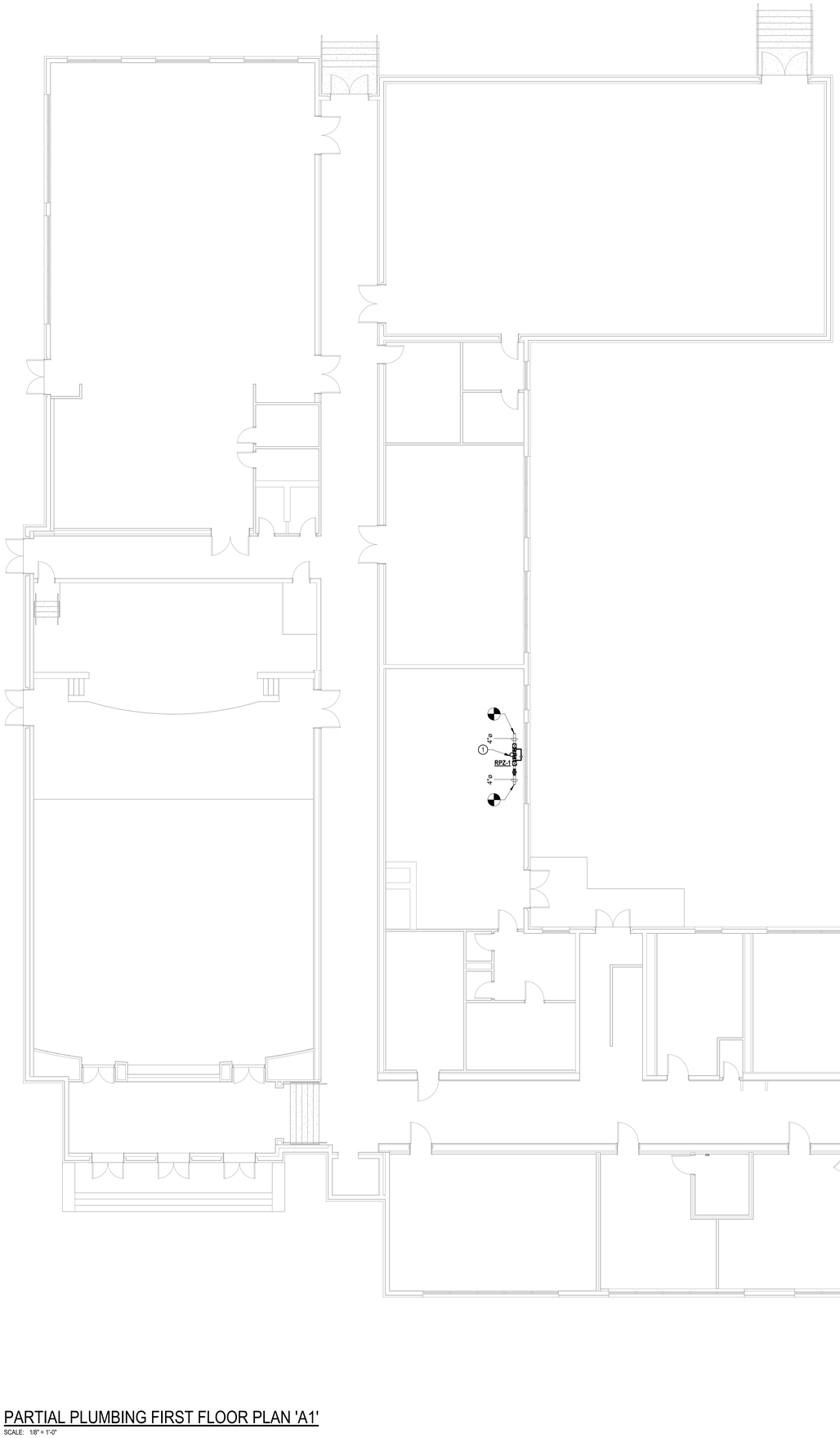
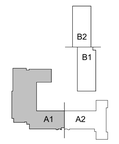


LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

NOTES BY SYMBOL:

1	REPLACE RPZ. PROVIDE NEW RPZ AND PRESSURE REGULATING VALVE. CONNECT TO EXISTING DOMESTIC COLD WATER PIPING (REFER TO DETAIL). FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING GAS PIPING PRIOR TO INSTALLATION.

KEY MAP



1 PARTIAL PLUMBING FIRST FLOOR PLAN 'A1'

SCALE: 1/8" = 1'-0"

TRUE NORTH

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PARTIAL PLUMBING FIRST FLOOR PLAN 'A1'

DRAWING RECORD

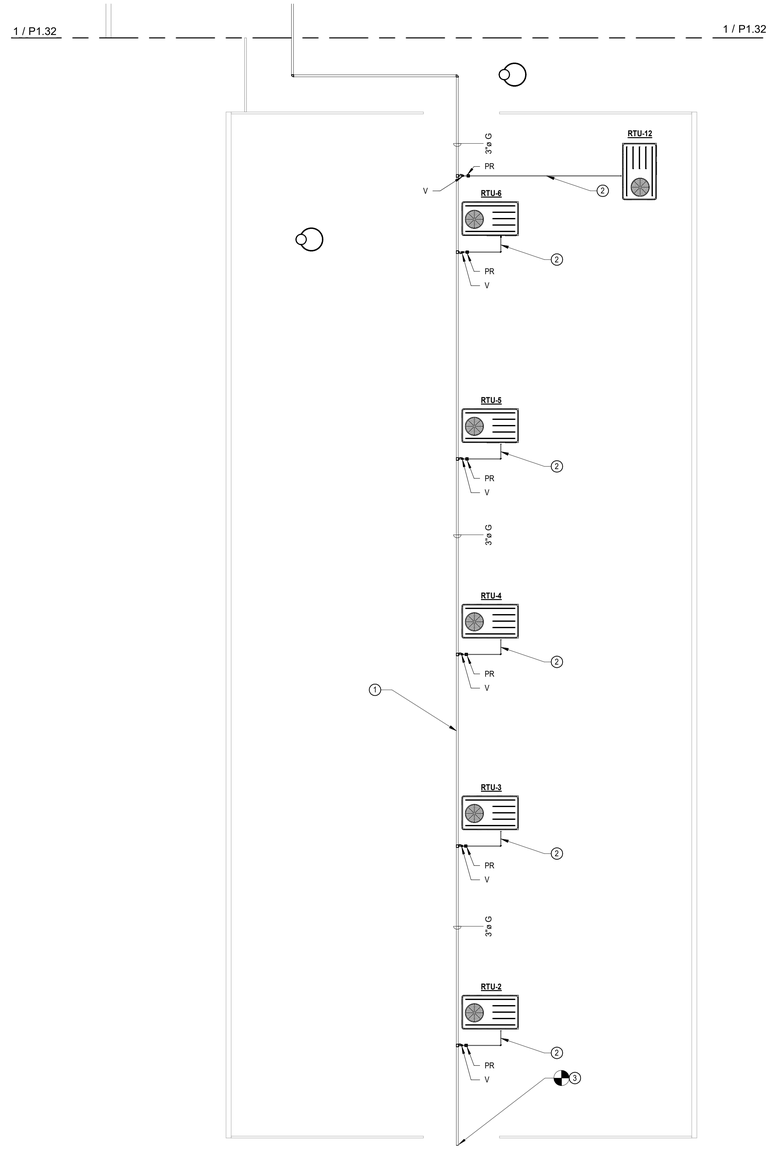
DATE	DESCRIPTION
09/18/24	BID SET

P1.11

PROJECT NO.: 2023209

LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

NOTES BY SYMBOL:	
1	PROVIDE NEW GAS PIPING AND ROOF SUPPORTS. PROVIDE NEW GAS PIPING AT SAME SIZE AS EXISITNG. FIELD VERIFY EXACT SIZE OF GAS PIPING PRIOR TO INSTALLATION.
2	PROVIDE RTU WITH NEW 3/4" GAS PIPING CONNECTION (SEE DETAIL). PROVIDE WITH PRESSURE REGULATOR AND ISOLATION VALVE.
3	CONNECT NEW GAS PIPING TO EXISTING RISER ALONG EDGE OF BUILDING. PROVIDE NEW GAS PIPING AT SAME SIZE AS EXISITNG. FIELD VERIFY EXACT SIZE OF GAS PIPING PRIOR TO INSTALLATION.

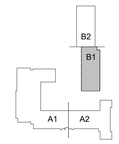


TRUE NORTH

1 PARTIAL PLUMBING ROOF PLAN 'B1'

SCALE: 1/8" = 1'-0"

KEY MAP



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09/18/24

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DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

ORG 207 DISD SAN JACINTO ELEMENTARY

7900 Hume Dr. Dallas, TX 75227

PARTIAL PLUMBING ROOF PLAN 'B1'

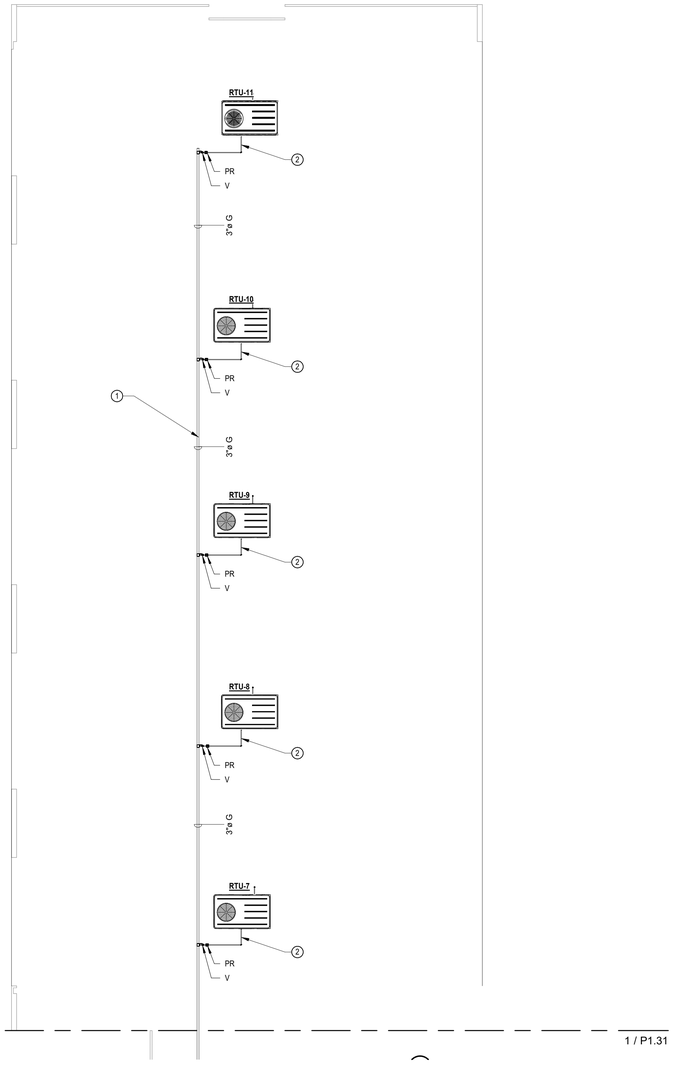
DRAWING RECORD	
DATE	DESCRIPTION
09/18/24	BID SET

P1.31

PROJECT NO.: 2023209

LEGEND	
	EXISTING
	NEW
	NOT IN SCOPE

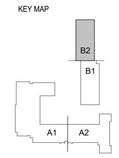
NOTES BY SYMBOL:	
1	PROVIDE NEW GAS PIPING AND ROOF SUPPORTS. PROVIDE NEW GAS PIPING AT SAME SIZE AS EXISTING. FIELD VERIFY EXACT SIZE OF GAS PIPING PRIOR TO INSTALLATION.
2	PROVIDE RTU WITH NEW 3/4" GAS PIPING CONNECTION (SEE DETAIL). PROVIDE WITH PRESSURE REGULATOR AND ISOLATION VALVE.



TRUE NORTH

1 PARTIAL PLUMBING ROOF PLAN 'B2'

SCALE: 1/8" = 1'-0"



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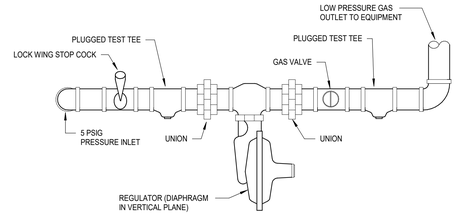
PARTIAL PLUMBING ROOF PLAN 'B2'

DRAWING RECORD	
DATE	DESCRIPTION
09/18/24	BID SET

P1.32

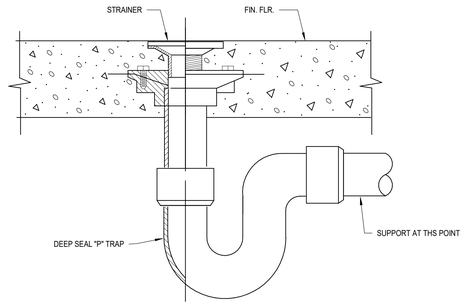
PROJECT NO.: 2023209

BACKFLOW PREVENTER SCHEDULE			
ITEM NO.	FIXTURE DESCRIPTION	MANUFACTURER	MODEL
RPZ-1	4" REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY WITH STRAINER.	WATTS	LF909

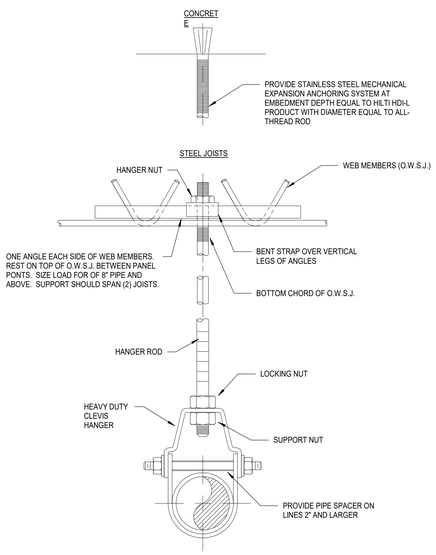


NOTE:
REFERENCE DRAWINGS FOR PIPE SIZES

4 GAS PRESSURE REGULATOR DETAIL
SCALE: NOT TO SCALE



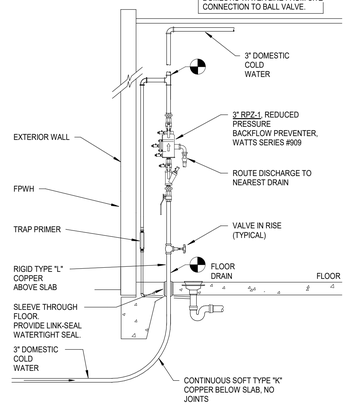
3 FLOOR DRAIN (FD-1) DETAIL
SCALE: NOT TO SCALE



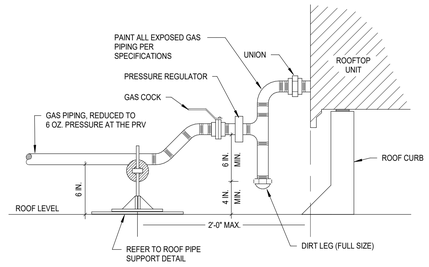
NOTE:
1. FOR CORROSIVE ENVIROMENTS, HANGER SYSTEM SHOULD BE EPOXY FUSION COATED, ALUMINUM OR STAINLESS STEEL.

5 SINGLE PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE

NOTE:
NO CONNECTIONS OR TAPS IN DOMESTIC WATER LINE FROM SITE CONNECTION TO BALL VALVE.



2 DOMESTIC COLD WATER RISER
SCALE: 1" = 1'-0"



1 RTU GAS CONNECTION DETAIL
SCALE: NOT TO SCALE

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PLUMBING DETAILS

DRAWING RECORD	
DATE	DESCRIPTION
09/18/24	BID SET

P3.01

PROJECT NO.: 2023209

ELECTRICAL ABBREVIATIONS, SYMBOLS, AND NOTES

ABBREVIATIONS

AC	ALTERNATING CURRENT
ADO	AUTOMATIC DOOR OPENER
AF	AMPERE FRAME
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CB, C/B, CKT BKR	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
D	DEMOLITION
DC	DIRECT CURRENT
DP	DISTRIBUTION PANEL
EG	EQUIPMENT GROUND
ELEC	ELECTRIC
E_EM	EMERGENCY
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
EX	EXISTING TO REMAIN
F	FUSE
FA	FIRE ALARM
FAA	FIRE ALARM ANUNCIATOR
FACU	FIRE ALARM CONTROL UNIT
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPS
FTU	FAN TERMINAL UNIT
G, GND	GROUND
GEN	GENERATOR
GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
HV, H	HIGH VOLTAGE PANEL (277/480V)
IG	ISOLATED GROUND
JB, JBOX, J-BOX	JUNCTION BOX
LTG	LIGHTING
LV	LOW VOLTAGE PANEL (120/208V)
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG HTG	MOUNTING HEIGHT
NAC	NOTIFICATION AMPLIFICATION CIRCUIT
NF	NON-FUSED
NFSS	NON-FUSED SAFETY SWITCH
P	POLE
PH	PHASE
PB	PULL BOX
PNL	PANEL
POD	POWER OPERATED DAMPER
PWD	POWER
R	RELOCATED DEVICE
RECEPT, RCPT	RECEPTACLE
TEL	TELEPHONE
TR	TAMPER RESISTANT
TV	TELEVISION
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
VP	VAPOR PROOF
W	WIRE
W/	WITH
WP	WEATHER PROOF
X	DEMOLISH
XFMR, XFR, T	TRANSFORMER

UNIVERSAL

WALL BRACKET

FIRE ALARM ELEVATION 7'-4"
LIGHTING ELEVATION REFER TO FIXTURE SCHEDULE
POWER ELEVATION REFER TO EQUIPMENT INSTALL MANUAL

STEM/WALL BRACKET APPLIES TO ALL DEVICES-LIGHTS, JBOXES, AND FIRE ALARM DEVICES

WIRING

- HOMERUN WITH 1#12,1#12N,1#12G,3/4"C.
- HOMERUN
- NEUTRAL WIRE (SHORT STROKE)
- PHASE OR SWITCHED WIRE (LONG STROKE)
- GROUND WIRE (FILLED CIRCLE)
- ISOLATED GROUND WIRE (OPEN CIRCLE)
- GROUND
- GROUNDING TRIAD
- CONDUIT CONCEALED IN WALL OR ABOVE CEILING
- CONDUIT CONCEALED IN SLAB, UNDER FLOOR, OR BELOW GRADE

TRANSFORMERS & PANELS

- TRANSFORMER
- PANEL BOARD (480/277 VOLT)
- SWITCHBOARD / DISTRIBUTION PANEL (480/277 VOLT)
- PANEL BOARD (208/120 VOLT)
- SWITCHBOARD / DISTRIBUTION PANEL (208/120 VOLT)

NOTE: *SOME SYMBOLS MAY NOT BE USED.*

LIGHT FIXTURES

- 1'x4' LIGHT FIXTURE
- 2'X2' LIGHT FIXTURE
- 2'X4' LIGHT FIXTURE
- 4' STRIP LIGHT FIXTURE
- DOWN LIGHT FIXTURE
- WALL WASHER FIXTURE
- SINGLE HATCHING INDICATED LIGHT FIXTURE ON EMERGENCY SERVICE OR BATTERY PACK
- DROP DOWN EMERGENCY LIGHT
- PENDANT LIGHT FIXTURE
- EMERGENCY WALL PACK
- EXTERIOR LIGHT-POLE MOUNTED (SINGLE HEAD)
- A 1 — LIGHTING CONTROL DESIGNATION REFER TO SEQUENCE OF OPERATIONS SCHEDULE

SECURITY DEVICES

- M — SECURITY MOTION SENSOR
- L — SECURITY LONG RANGE BEAM DETECTOR
- L, E — SECURITY EXTERIOR LONG RANGE BEAM DETECTOR
- S — SECURITY KEYPAD
- EX — EXPANSION MODULE WITH POWER SUPPLY

LIGHT FIXTURE LABELING

- A 12 / f NL — UPPERCASE LETTER - INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE
- LOWERCASE LETTER - INDICATED SWITCHING GROUP
- NUMBER INDICATES CIRCUIT
- NL - INDICATES NIGHT LIGHT
- a b — FIXTURE LOWER CASE LETTERS INDICATE SWITCH LEGS

FIRE PROTECTION & EMERGENCY

- SINGLE SIDED EXIT SIGN
- SINGLE SIDED EXIT SIGN WITH ARROW
- DOUBLE SIDED EXIT SIGN
- DOUBLE SIDED EXIT SIGN WITH ARROWS
- SMOKE DETECTOR
- HEAT DETECTOR
- ER — SMOKE DETECTOR-ELEVATOR RETURN
- DD — SMOKE DETECTOR-DUCT TYPE
- SS — SMOKE DETECTOR-SINGLE STATION
- F — FIRE ALARM-AUDIO ONLY
- FIRE ALARM STROBE-VISUAL ONLY
- FIRE ALARM COMBO-AUDIO/VISUAL
- FACP — FIRE ALARM PANEL
- F — FIRE ALARM PULL STATION
- F — FIREMAN PHONE
- S — FIRE ALARM SPEAKER
- DH — DOOR HOLDERS
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- F — FIRE ALARM CONNECTION

ONE LINE/RISER DIAGRAM

- 30 SPARE — SWITCH
- 30 SPARE — FUSE
- 300 SPARE LSI — MOLDED CASE CIRCUIT BREAKER
- 600 SPARE LSIG — DRAW OUT CIRCUIT BREAKER
- AUTOMATIC TRANSFER SWITCH
- GF — GROUND FAULT RELAY
- GROUND ROD
- M — DIGITAL METER
- TRANSFORMER
- UPS BATTERY
- UPS DC/AC INVERTER
- N / G — NEUTRAL AND GROUND BUS. ARC INDICATES N-G BOND

SWITCHES & MISC.

NOTE: REFER TO CONTROLS DRAWINGS AND SEQUENCE OF OPERATION SCHEDULE FOR MORE INFORMATION

- S — SWITCH (LOW VOLTAGE U.O.N.)
- SD — DIMMER SWITCH
- SLV — LINE VOLTAGE SWITCH
- SD3 — THREE WAY DIMMER SWITCH
- SM — MOTOR SWITCH
- SP — PROJECTOR SWITCH
- SPL — PILOT LIGHT SWITCH
- ST — TIMER SWITCH
- SWP — WEATHER PROOF SWITCH
- SOS — WALL MOUNTED OCCUPANCY SENSOR
- SVS — WALL MOUNTED VACANCY SENSOR
- A1 — SEQUENCE OF OPERATION
- VC — CEILING MOUNTED VACANCY SENSOR - REFER TO SPECIFICATIONS FOR TYPE
- OC — CEILING MOUNTED OCCUPANCY SENSOR - REFER TO SPECIFICATIONS FOR TYPE
- PC — PHOTO CELL
- TC — TIME CLOCK
- LIGHTING CONTACTOR
- DIMMER CONTROL PANEL
- VFD / VFD — VARIABLE FREQUENCY DRIVE
- CB — ENCLOSED CIRCUIT BREAKER
- NON-FUSED DISCONNECT SWITCH
- CIRCUIT BREAKER IN NEMA ENCLOSURE
- FUSED DISCONNECT SWITCH 30A/30F/3P UON
- FUSED DISCONNECT SWITCH W/ MOTOR STARTER
- M — ELECTRIC METER
- ATS — AUTOMATIC TRANSFER SWITCH
- MOTOR
- ELECTRICAL CONNECTION TO MECHANICAL DEVICE

OUTLETS & RECEPTACLES

- DUPLEX RECEPTACLE / ABOVE COUNTER
- QUADRAPLEX RECEPTACLE
- SINGLE RECEPTACLE
- FLOOR BOX
- DUPLEX RECEPTACLE (CEILING MOUNTED)
- SPECIAL OUTLET WITH NEMA CONFIGURATION TYPE CALLED OUT
- DUPLEX RECEPTACLE (1/2 SWITCHED)
- DUPLEX RECEPTACLE WITH USB PORT
- J — JUNCTION BOX
- TV — TELEVISION CONNECTION SERVICE
- POKE THRU DEVICE (FLOOR MOUNTED)
- WIRE MOLD
- POWER POLE
- GROUND BAR

COMMUNICATIONS

NOTE: REFER TO GENERAL NOTES FOR REQUIREMENTS FOR TELE/DATA/CATV/SECURITY SYSTEMS. PROVIDE 1"C WITH PULL STRING TO ACCESSIBLE CEILING

- DATA DROP LOCATION
- FLOORBOX DATA DROP LOCATION
- ABOVE CEILING DATA CONNECTION
- PUSH BUTTON SWITCH
- WAP — WIRELESS ACCESS POINT (WAP)
- CR — CARD READER

- 600 / 600 RATED 100% LSA — AF / AT — FRAME RATING / TRIP RATING; LSI, LSIG, LSIA — ELECTRONIC TRIP FUNCTIONS
- 300 / 1200 — GFCI — GFCI CIRCUIT BREAKER
- 30 SPARE — GFR — GFR CIRCUIT BREAKER
- BATTERY AND DISCONNECT
- K 1 — KIRK KEY. SUBSCRIPT INDICATES CONNECTION GROUPING

GENERAL NOTES

GENERAL CONDITIONS

1. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETE AND ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING ELECTRICAL SYSTEM IN SAFE WORKING ORDER.
2. SYMBOLS FOR VARIOUS ELEMENTS AND SYSTEMS ARE SHOWN ON THE DRAWINGS. SHOULD THERE BE ANY DOUBT REGARDING THE MEANING OR INTENT OF THE SYMBOLS USED, AN INTERPRETATION SHALL BE OBTAINED FROM THE ARCHITECT IN WRITING. THE DECISION OF THE ARCHITECT SHALL BE FINAL.
3. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTORS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION.
4. WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING.
5. THE SCALE OF EACH DRAWING IS RELATIVELY ACCURATE; ANY DIMENSIONS SHOWN ARE APPROXIMATE TO CENTERLINE FROM ASSUMED BUILDING PERIMETER. THE CONTRACTOR SHALL OBTAIN THE NECESSARY DIMENSIONS FOR ANY EXACT TAKEOFFS FROM THE ARCHITECT. NO ADDITIONAL COST TO THE OWNER WILL BE CONSIDERED FOR FAILURE TO OBTAIN EXACT DIMENSIONS WHERE NOT CLEAR OR IN ERROR ON THE DRAWINGS. ANY DEVICE OR FIXTURE ROUGHED IN IMPROPERLY AND NOT POSITIONED ON IMPLIED CENTER-LINES OR AS REQUIRED BY GOOD PRACTICE MUST BE REPOSITIONED AT NO COST TO THE OWNER.
6. ALL WORK AND MATERIALS SHALL BE GUARANTEED FREE FROM DEFECTS FOR A MINIMUM PERIOD OF ONE YEAR UNLESS OTHERWISE NOTED . THE WARRANTY PERIOD SHALL BEGIN AT THE DATE OF BENEFICIAL OCCUPANCY OF THE FACILITY.
7. THE GENERAL CONTRACTOR SHALL REQUIRE ALL RELATED INFORMATION FROM THEIR SUB-CONTRACTORS AND SUPPLIERS THAT WILL ALLOW THE GENERAL CONTRACTOR TO INCORPORATE ALL ELEMENTS AND WORK OF ALL TRADES INTO A FULLY COORDINATED AUTO-CAD OR REVIT DRAWING SECTION THROUGH AREAS OF DENSE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS PRIOR TO THE FABRICATION OR INSTALLATION OF ANY WORK SO AS TO CONFIRM PROPER ACCESS TO ALL ELEMENTS FOR PROPER OPERATION AND MAINTENANCE SERVICE SPACE.
8. ONLY EXPERIENCED CRAFTSMEN KNOWLEDGEABLE IN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENTLY ADOPTED EDITION OF NFPA STANDARD 70 (NATIONAL ELECTRICAL CODE). CONTRACTOR SHALL ALSO CONFORM TO ALL APPLICABLE LOCAL CODES AND AMENDMENTS.
10. ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO SWITCHGEAR, CONDUIT, WIRE, BOXES AND FITTINGS SHALL BE NEW AND SHALL MEET NEMA AND ANSI STANDARDS AND SHALL BEAR THE UL LABEL. ALL FEEDER AND BUSSING SHALL BE COPPER UNLESS OTHERWISE NOTED.
11. DURING RENOVATIONS PROJECTS, WHEN A CEILING IS OPENED UP, REMOVE ALL ABANDONED WIRE, CABLE, AND CONDUIT AND CLOSE/PROVIDE COVER PLATES FOR ALL JUNCTION BOXES.

CONDUIT AND RACEWAYS

1. ALL WORK SHALL BE COORDINATED SO THAT INTERFERENCES ARE AVOIDED. PROVIDE ALL NECESSARY OFFSETS IN CONDUITS, RACEWAYS, ETC., REQUIRED TO PROPERLY INSTALL THE WORK. EXPOSED WORK MUST BE KEPT AS CLOSE AS POSSIBLE TO WALLS, CEILINGS, COLUMNS, ETC., SO AS TO TAKE UP MINIMUM AMOUNT OF SPACE; ALL OFFSETS, FITTINGS, ETC., REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WORK SHALL BE COORDINATED WITH OTHER TRADES.
2. CONDUIT RUNS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER N.E.C. AND FOR COORDINATION WITH OTHER DISCIPLINES.
3. CONTRACTOR SHALL INSTALL (1) 3/4" CONDUIT FOR EACH SET OF (3) SPARES AND/OR SPACES OR FRACTION THEREOF FROM EACH FLUSH MOUNTED PANELBOARD. THE SPARE CONDUITS SHALL STUB-UP INTO THE NEAREST ACCESSIBLE CEILING CAVITY.
4. CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE SUPPORTS NECESSARY FOR THE RACEWAY SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO BLOCKING FOR SURFACE AND FLUSH MOUNTED PANELS. CONTRACTOR SHALL REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SIZES AND QUANTITIES OF ALL SUPPORTING MEANS.
5. CONTRACTOR SHALL PROVIDE FIRE STOPPING SYSTEMS FOR ALL CONDUIT AND RACEWAY SYSTEMS AT ALL PENETRATIONS OF WALLS, FLOORS, ROOFS, AND STRUCTURAL BEAMS FOR THE PASSAGE OF ELECTRICAL PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF WORK. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAY SO AS TO MAINTAIN THE STRUCTURAL, WATER PROOF, AND FIRE PROOF INTEGRITY OF THE SYSTEM PENETRATED. THE CONDUITS SHALL BE DRIED PRIOR TO INSTALLATION OF WIRE/CABLE AND SHALL BE SEALED AT TERMINATIONS.
6. ALL BOXES AND CONDUIT IN WALLS AND CEILING SHALL BE FLUSH MOUNTED OR CONCEALED UNLESS NOTES OTHERWISE.

BRANCH CIRCUITS AND FEEDERS

1. BRANCH CIRCUITS MAXIMUM VOLTAGE DROP SHALL NOT EXCEED 3%. FOR 120V, 20A/1P FEEDERS, PROVIDE #12 AWG WIRING UP TO 100 FEET RUN. PROVIDE #10 AWG WIRING UP TO 200 FEET RUN. PROVIDE #8 AWG WIRING UP TO 300 FEET RUN. UPSIZE WIRING IF NEEDED. REFER TO SPECIFICATIONS FOR ADDITIONAL WIRING INFORMATION. BRANCH CIRCUITS MAXIMUM VOLTAGE DROP SHALL NOT EXCEED 3%. FOR 277V, 20A/1P FEEDERS, PROVIDE WIRING UP TO 200 FEET RUN. PROVIDE #10 AWG WIRING UP TO 400 FEET RUN. PROVIDE #8 AWG WIRING UP TO 700 FEET RUN. UPSIZE WIRING IF NEEDED. REFER TO SPECIFICATIONS FOR ADDITIONAL WIRING INFORMATION.
2. ALL CONDUCTORS SHALL BE SOFT DRAWN ANNEALED COPPER, 98% CONDUCTIVITY CONTINUOUS FROM OUTLET TO OUTLET. CONDUCTOR SIZES #12 AWG AND #10 AWG SHALL BE SOLID. CONDUCTOR SIZES #8 AWG AND LARGER MAY BE STRANDED.
3. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH ALL CIRCUIT CONDUCTORS. CONDUIT DOES NOT COUNT AS A GROUND PATH. DEDICATED GROUNDS FOR EACH CIRCUIT AND NO COMMON NEUTRALS.
4. CONTRACTOR SHALL GROUND ALL EQUIPMENT AND ELECTRICAL SYSTEM PER N.E.C.
5. IN INSTANCES WHERE DEMOLITION IS REQUIRED, THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL UNUSED CONDUIT AND WIRING BACK TO THE ELECTRICAL PANEL.

LIGHTING SYSTEM

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION OF ALL CEILING ELEMENTS (LIGHTS, SPRINKLERS, DIFFUSERS, ETC). ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SUPPORTS FOR LIGHT FIXTURES. SUPPORTS SHALL BE INDEPENDENT OF THE CEILING GRID SUPPORT SYSTEM.
3. LIGHT SWITCHES LOCATED IN A ROOM SHALL CONTROL ALL THE LIGHT FIXTURES IN THAT ROOM UNLESS OTHERWISE NOTED. ALL CEILING MOUNTED OCCUPANCY SENSORS SHOWN AS SOLE SOURCE OF CONTROL SHALL BE PROVIDED WITH MANUAL OVER-RIDE SWITCH ON WALL. COORDINATE LOCATION WITH ARCHITECT. CONTRACTOR SHALL GANG TOGETHER ALL SWITCHES UNDER A SINGLE COVER PLATE IN ALL AREAS THAT REQUIRE MORE THAN ONE SWITCH TO CONTROL ELECTRICAL DEVICES.
4. IN INSTANCES WHERE A DIMMING SYSTEM, AND/OR LIGHTING CONTROL SYSTEM IS SPECIFIED, THE CONTRACTOR SHALL COORDINATE ALL NECESSARY COMPONENTS OF SUCH SYSTEM(S) WITH THE MANUFACTURER PRIOR TO BID AND INCLUDE ALL NECESSARY ACCESSORIES TO INSTALL A COMPLETE AND FUNCTIONING SYSTEM.
5. LIGHTING CONTROLS WHERE REQUIRED BY THE CURRENTLY ADOPTED ENERGY CODE TO BE PROVIDED WHERE APPLICABLE. SEE LIGHTING PLANS.
6. ALL LIGHT FIXTURES SHALL BE INSTALLED WITH APPROPRIATE LEDS AS INDICATED.

OUTLETS AND POWER DEVICES

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WALL AND FLOOR MOUNTED ELEMENTS (OUTLETS, LIGHT SWITCHES, CONTROLLERS, POKE-THRU, ETC). ALL WALL/FLOOR MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL WALL/FLOOR TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
3. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6") INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS OTHERWISE NOTED..
4. CONTRACTOR SHALL VERIFY THE EXACT POWER CONNECTION TYPE AND NEMA CONFIGURATION OF RECEPTACLES FOR EQUIPMENT FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN.
5. ALL RECEPTACLES WITHIN SIX FEET (6'-0") OF ANY PLUMBING FIXTURE AND/OR SINK SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION. PROVIDE REMOTE TEST BUTTON AS REQUIRED.
6. ALL RECEPTACLES LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE HOUSED IN ENCLOSURES THAT ARE RATED 'WEATHER-PROOF-WHILE-IN-USE' AND SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION.
7. ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES. FACELESS GFCI'S SHALL BE PROVIDED FOR ALL DEVICES NOT EASILY ACCESSIBLE PER NEC.
8. FINISH COLORS OF DEVICES AND CORRESPONDING COVER PLATES SHALL BE SELECTED AND APPROVED BY THE ARCHITECT. SPECIALTY RECEPTACLES AND COVER PLATES (I.E. ISOLATED GROUND, EMERGENCY, CRITICAL BRANCH, SURGE SUPPRESSION, ETC.) SHALL BE THE COLOR NOTED IN ELECTRICAL CONSTRUCTION DOCUMENTS.
9. IN INSTANCES WHERE MECHANICAL SHADES, DRAPERIES, PROJECTION SCREENS, OR SIMILAR SYSTEMS ARE SPECIFIED, THE CONTRACTOR SHALL COORDINATE ALL NECESSARY COMPONENTS OF SUCH SYSTEM WITH THE SYSTEM MANUFACTURER PRIOR TO BID AND INCLUDE ALL NECESSARY ACCESSORIES TO INSTALL A COMPLETE AND FUNCTIONING SYSTEM. THE CONTRACTOR'S PRICE AND INSTALLATION SHALL INCLUDE BUT NOT LIMITED TO ALL CONTROLLERS, CONTROL WIRE, AND CONTROL ACCESS POINTS FOR THE SYSTEM.
10. POKE-THRU DEVICES SHALL BE LISTED AND LABELED FOR FIRE RATING OF FLOOR-CEILING ASSEMBLY. ALL FLOOR CORES SHALL BE LOCATED/SPACED IN A MANNER THAT DOES NOT DECREASE THE FIRE RATING OF THE FLOOR-CEILING ASSEMBLY BASED ON THE LATEST NFPA AND UL STANDARDS FOR FLOOR-CEILING ASSEMBLIES.

TELEPHONE/DATA/CATV SYSTEM

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL AN EMPTY CONDUIT RACEWAY SYSTEM FOR TELEPHONE, DATA, AND SATELLITE/CATV TELEVISION. PROVIDE RACEWAY ACCESS FOR TELEPHONE/DATA/CATV. IN AREAS WITH ACCESSIBLE DROP CEILING, CONTRACTOR SHALL INSTALL CONDUIT FROM TELE/DATA/CATV DEVICE TO NEAREST ACCESSIBLE CEILING. IN AREAS WITHOUT ACCESSIBLE CEILINGS OR PUBLIC AREAS WITH EXPOSED STRUCTURE; CONTRACTOR SHALL INSTALL CONDUIT BETWEEN EACH DEVICE AND THE TERMINAL BOARD. ALL CONDUITS SHALL HAVE NYLON PULL CORD INSTALLED FOR USE BY CABLE INSTALLER. IN ADDITION TO THESE DEVICE RACEWAYS, THE CONTRACTOR SHALL PROVIDE THE REQUIRED RACEWAY BETWEEN EACH TERMINAL BOARD. PROVIDE ALL TERMINAL BOARDS, SIZED AND LOCATED, AS REQUIRED BY TELEPHONE/DATA/CATV CABLE INSTALLERS. CONDUIT SHALL BE 1" MINIMUM, UNLESS OTHERWISE NOTED. PROVIDE NYLON BUSHINGS ON ALL CONDUIT TERMINATIONS.

MECHANICAL AND PLUMBING COORDINATION

1. CONTRACTOR SHALL REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVER CURRENT PROTECTION FOR ALL EQUIPMENT.
2. ALL FUSED SWITCHED OR CIRCUIT BREAKERS SERVING EQUIPMENT SHALL HAVE HANDLE LOCKS.
3. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BEAR AN 'HACR' RATING.
4. CONTRACTOR SHALL COORDINATE BETWEEN TRADES AND PROVIDE CONTROL POWER FOR ALL VAV BOXES/DAMPERS/ETC, AS REQUIRED TO ENSURE A COMPLETE, FULLY FUNCTIONAL HVAC SYSTEM. CONTRACTOR SHALL REFERENCE MECHANICAL DRAWINGS AND COORDINATE WITH OTHER TRADES PRIOR TO ELECTRICAL ROUGH-IN.
5. CONTRACTOR SHALL COORDINATE MOTOR DISCONNECT AND CONTROL WITH MECHANICAL DRAWINGS AND BETWEEN TRADES. PROVIDE STARTERS AND DISCONNECTS FOR ALL MECHANICAL EQUIPMENT THAT IS NOT PROVIDED INTEGRAL TO THE EQUIPMENT. COORDINATE STARTER REQUIREMENTS WITH BMCS CONTRACTOR WHO IS FURNISHING THE UNITARY CONTROLLER. PROVIDE MOTOR-RATED SWITCHES FOR ALL MOTORS LESS THAN 1 HP. PROVIDE ALL NECESSARY WIRE, CONDUIT AND POWER FOR INTERLOCKED MOTOR CONTROL.

FIRE ALARM AND VOICE EVAC. SYSTEM (DELEGRATED DESIGN/BUILD SYSTEM)

1. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CIRCUITS AND RACEWAY NEEDED BY FIRE ALARM CONTRACTOR FOR MISCELLANEOUS POWER TO FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL PROVIDE ADEQUATE POWER TO OPERATE ANY AND ALL DOOR LOCKS ON STAIRS, SERVICE DOORS OR OTHER DOORS ALONG THE PATH OF EGRESS.
2. CONTRACTOR SHALL PROVIDE ALL NECESSARY FIRE ALARM CONNECTIONS TO TAMPER AND FLOW SWITCHES. CONTRACTOR SHALL REFER TO PLUMBING/FIRE PROTECTION DRAWINGS FOR LOCATIONS AND COORDINATE BETWEEN TRADES TO ENSURE A FULLY FUNCTIONAL SYSTEM.
3. THE COST OF ANY ADDITIONAL RECEPTACLES REQUIRED FOR POWER SUPPLIES REQUIRED BY THE SYSTEM DESIGNER SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR.

ELEVATORS

1. CONTRACTOR SHALL PROVIDE A SHUNT TRIP BREAKER AS REQUIRED BY CODE FOR POWER FOR ALL NEW ELEVATORS.
2. PROVIDE DEDICATED CIRCUITS FOR SUMP PUMP IN ELEVATOR PITS.
3. PROVIDE 2-4', LED STRIP LIGHTS WITH SWITCH(S) IN ELEVATOR PITS AND 3-4', LET STRIP LIGHTS IN THE ELEVATOR MACHINE ROOM OR ABOVE ELEVATOR IN THE TOP OF SHAFT IF THE ELEVATOR EQUIPMENT IS MOUNTED ON TOP OF ELEVATOR CAB
4. PROVIDE DEDICATED RECEPTACLES FOR MAINTENANCE IN THE ELEVATOR PITS AND AT THE TOP OF SHAFTS. (IF THERE IS AN ELEVATOR MACHINE ROOM, PROVIDE A MINIMUM OF 2 MAINTENANCE RECEPTACLES IN THE MACHINE ROOM)
5. PROVIDE CIRCUIT AND DISCONNECT FOR ELEVATOR CAB LIGHTING AND A DATA OUTLET ABOVE THE CAB FOR EMERGENCY TELEPHONE IN EACH CAB.

DEMOLITION

1. CONTRACTOR SHALL PROVIDE A SHUNT TRIP BREAKER AS REQUIRED BY CODE FOR POWER FOR ALL NEW ELEVATORS.
2. PROVIDE UPDATED, TYPED, PANEL SCHEDULE WITH CIRCUIT AND INFORMATION.
3. INFORMATION ON DRAWINGS IS BASED ON EXISTING DRAWINGS AND SITE VISITS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO PRICING AND STARTING WORK.
4. WHERE EXISTING WALLS ARE DEMOLISHED, REMOVE ALL EXISTING ELECTRICAL DEVICES AND ASSOCIATED WIRE AND CONDUIT BACK TO POINT OF ORIGINATION. EXISTING TO REMAIN DEVICES DOWNSTREAM TO REMAIN ENERGIZED. WHERE THE FULL CIRCUIT IS REMOVED, TURN THE BREAKER OFF AND LABEL AS "SPARE".
5. WHERE MECHANICAL AND PLUMBING EQUIPMENT IS DEMOLISHED, REMOVE ALL EXISTING ELECTRICAL DEVICES AND ASSOCIATED WIRE AND CONDUIT BACK TO POINT OF ORIGINATION.
6. WHERE CEILINGS ARE DEMOLISHED, REMOVE ALL EXISTING ELECTRICAL DEVICES AND ASSOCIATED WIRE AND CONDUIT BACK TO POINT OF ORIGINATION. EXISTING TO REMAIN DEVICES DOWNSTREAM TO REMAIN ENERGIZED. WHERE THE FULL CIRCUIT IS REMOVED, TURN THE BREAKER OFF AND LABEL AS "SPARE".

KEY CODES

NEC - ***2020***

IECC - ***2021***

SPECIALTY LINE STYLES

- OHC — OVERHEAD COMMUNICATIONS LINE STYLE
- OHE — OVERHEAD ELECTRIC LINE STYLE
- UC — UNDERGROUND COMMUNICATIONS LINE STYLE
- UE — UNDERGROUND ELECTRIC LINE STYLE
- UP — UNDERGROUND PRIMARY LINE STYLE
- US — UNDERGROUND SECONDARY LINE STYLE
- ? — SPECIAL LINE STYLE
- N — NEUTRAL LINE STYLE
- G — GROUND LINE STYLE
- WIRE MOLD

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ELECTRICAL COVER

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

E0.01

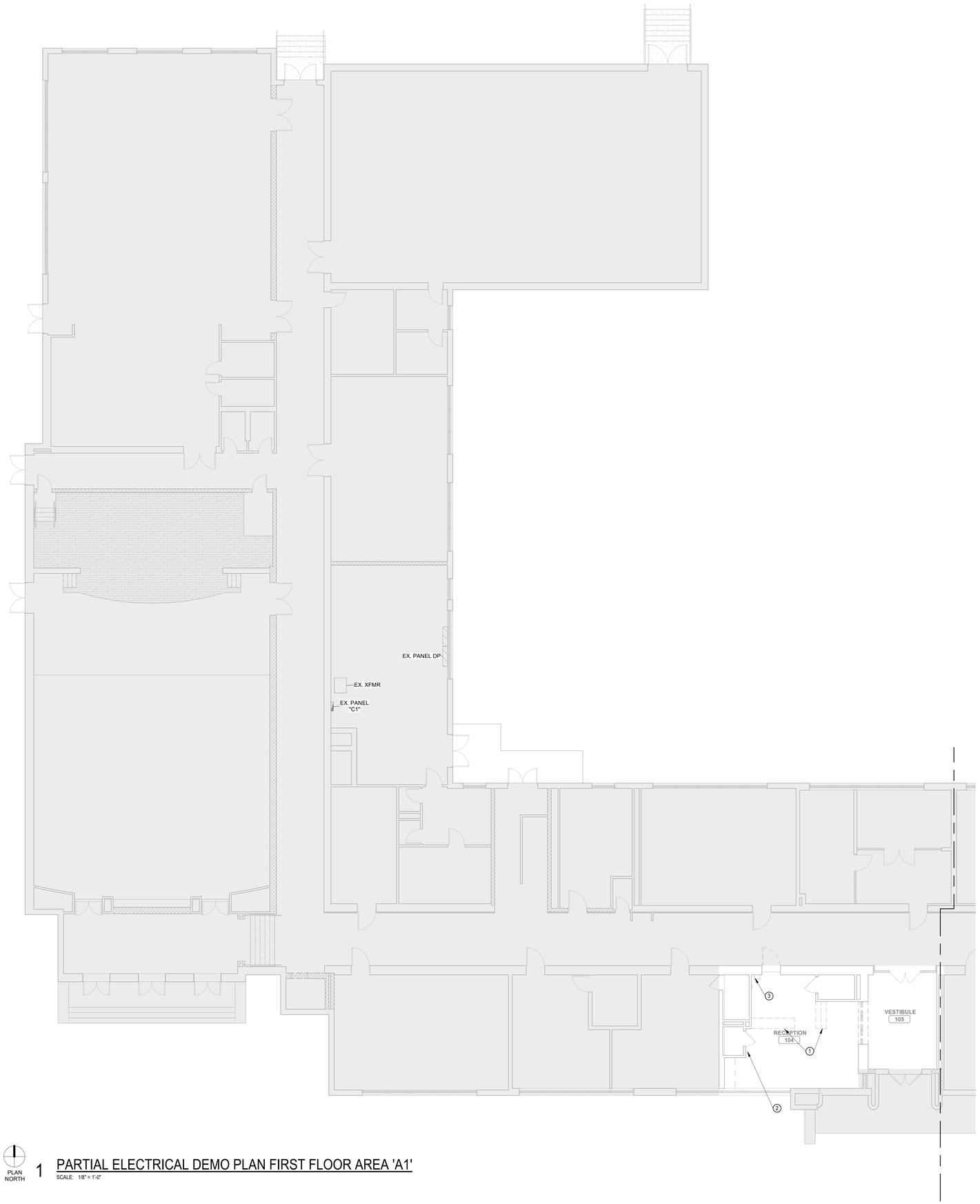
PROJECT NO.: 2023209

DEMOLITION GENERAL NOTES:

1. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR DEOMLITION REQUIREMENTS.
2. REFER TO E0.01 FOR DEMOLITION NOTES.
3. WHERE EXISTING MECHANICAL/PLUMBING EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED ELECTRICAL FEEDS TO THE EQUIPMENT AND THEIR ASSOCIATED CONDUITS BACK TO THE POINT OF ORIGINATION.

NOTES BY SYMBOL:

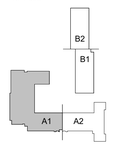
1	DISCONNECT AND REMOVE EXISTING POWER AND DATA AT EXISTING MILLWORK. REMOVE CIRCUIT BACK TO JUNCTION BOX AND PREP FOR REUSE.
2	DISCONNECT AND REMOVE EXISTING MAIN ALARM PANEL AND ALL ASSOCIATED DEVICES. START THE FA DEMOLITION AFTER NEW FA SYSTEM IS INSTALLED AND OPERATIONAL.
3	RELOCATE EXISTING CHECK-IN DEVICE. SEE NEW LOCATION ON SHEET E2.11.



TRUE NORTH / PLAN NORTH

1 PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'A1'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'A1'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

E0.11

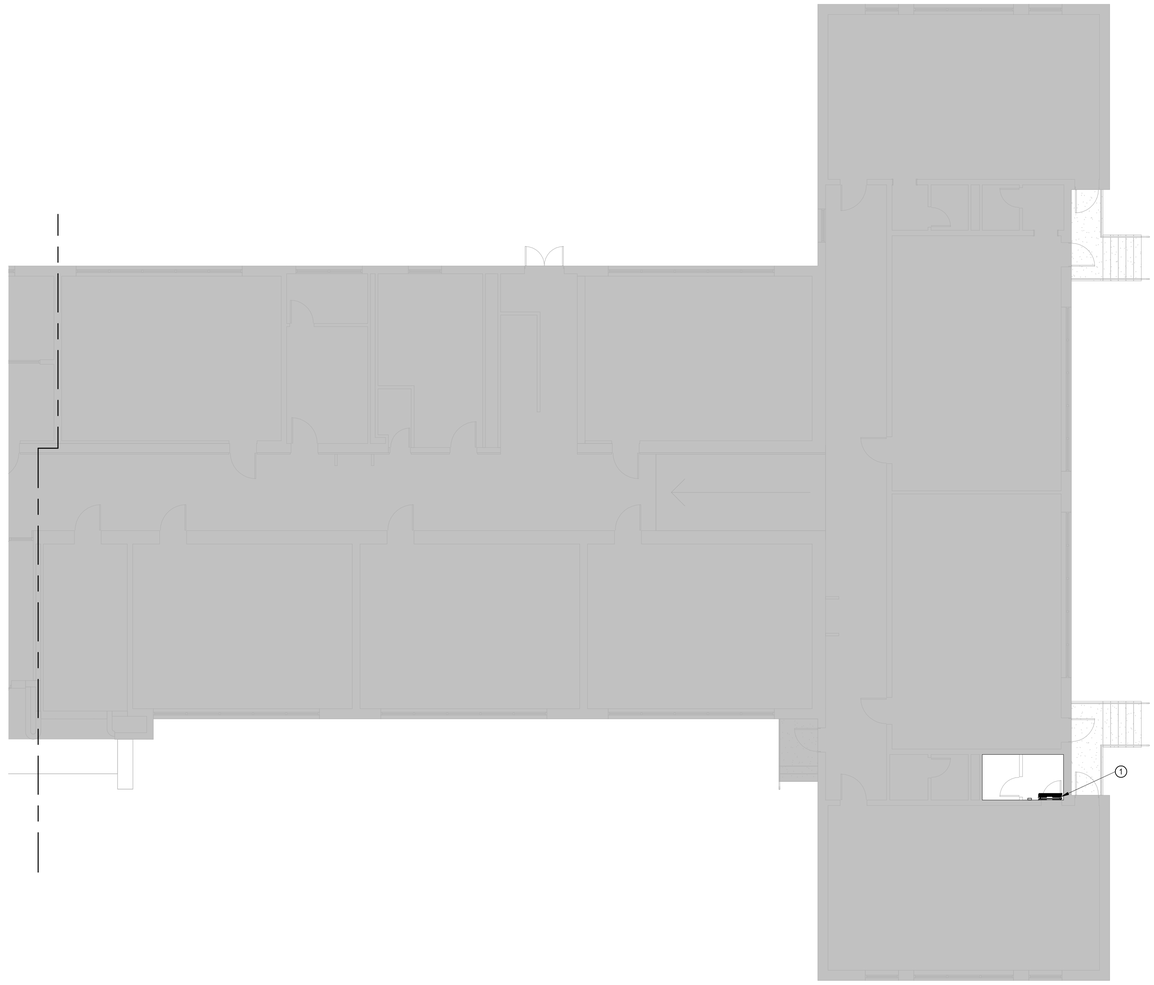
PROJECT NO.: 2023209

DEMOLITION GENERAL NOTES:

1. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR DEOMLITION REQUIREMENTS.
2. REFER TO E0.01 FOR DEMOLITION NOTES.
3. WHERE EXISTING MECHANICAL/PLUMBING EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED ELECTRICAL FEEDS TO THE EQUIPMENT AND THEIR ASSOCIATED CONDUITS BACK TO THE POINT OF ORIGINATION.

NOTES BY SYMBOL:

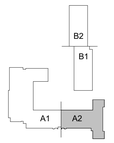
1	DISCONNECT AND REMOVE POWER TO EXISTING UNIT EQUIPMENT. REMOVE CIRCUIT BACK TO JUNCTION BOX AND PREP FOR REUSE. REFER TO MECHANICAL SHEETS FOR EXACT DEMOLITION SCOPE.



TRUE NORTH PLAN NORTH

1 PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'A2'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'A2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

E0.12

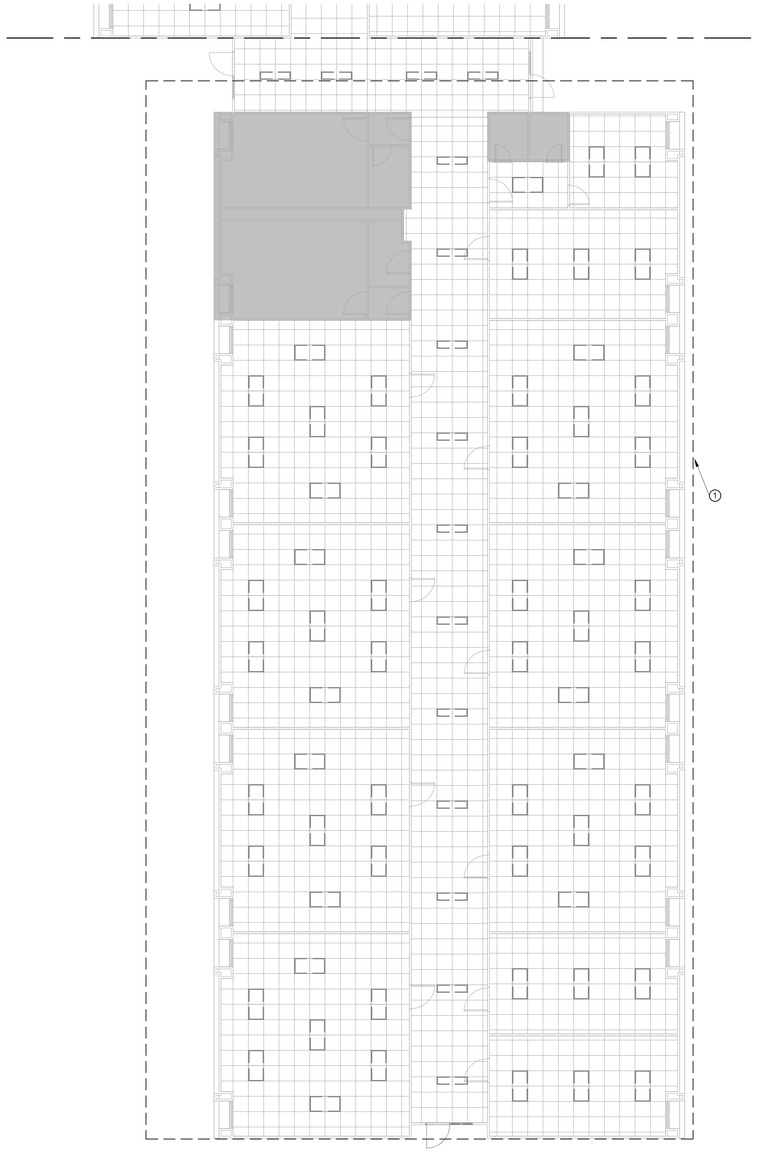
PROJECT NO.: 2023209

DEMOLITION GENERAL NOTES:

1. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR DEOMLITION REQUIREMENTS.
2. REFER TO E0.01 FOR DEMOLITION NOTES.
3. REMOVE AND STORE EXISTING LIGHT FIXTURE TO BE REUSED IN NIEW LAYOUT WHERE POSSIBLE. REFER TO THE NEW LIGHTING PLAN FOR ADDITIONAL INFORMATION. CLEAN AND REPAIR EXISTING LIGHT FIXTURE AS REQUIRED PRIOR TO REINSTALLATION.

NOTES BY SYMBOL:

1	BID ALTERNATE 1: DEMOLISH ALL LIGHT FIXTURES AND LIGHTING CONTROLS INSIDE THIS AREA UNLESS OTHERWISE NOTED. PREP EXISTING LIGHTING CIRCUIT FOR REUSE TO FEED NEW REPLACEMENT LED LIGHTING. ALL EXISTING EXIT LIGHTS TO REMAIN.



TRUE NORTH PLAN NORTH

1 PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'B1'

SCALE: 1/8" = 1'-0"

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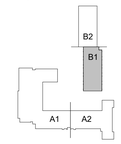
PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'B1' (BID ALTERNATE 1)

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

KEY MAP



E0.13

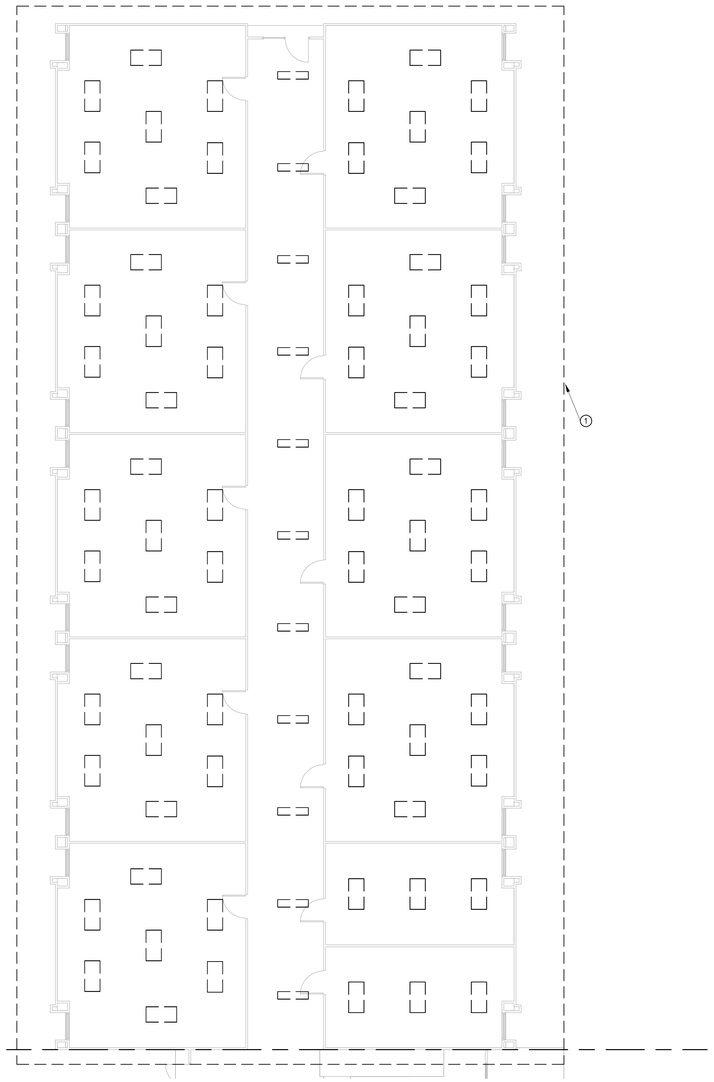
PROJECT NO.: 2023209

DEMOLITION GENERAL NOTES:

1. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR DEOMLITION REQUIREMENTS.
2. REFER TO E0.01 FOR DEMOLITION NOTES.
3. REMOVE AND STORE EXISTING LIGHT FIXTURE TO BE REUSED IN NEW LAYOUT WHERE POSSIBLE. REFER TO THE NEW LIGHTING PLAN FOR ADDITIONAL INFORMATION. CLEAN AND REPAIR EXISTING LIGHT FIXTURE AS REQUIRED PRIOR TO REINSTALLATION.

NOTES BY SYMBOL:

1	BID ALTERNATE 1: DEMOLISH ALL LIGHT FIXTURES INSIDE THIS AREA UNLESS OTHERWISE NOTED PREP EXISTING LIGHTING CIRCUIT FOR REUSE TO FEED NEW REPLACEMENT LED LIGHTING. ALL EXISTING EXIT LIGHTS TO REMAIN.

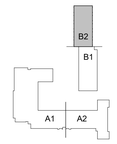


TRUE NORTH PLAN NORTH

1 PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'B2'

SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL ELECTRICAL DEMO PLAN FIRST FLOOR AREA 'B2' (BID ALTERNATE 1)

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

E0.14

PROJECT NO.: 2023209

ELECTRICAL DEMOLITION GENERAL NOTES:

1. ALL ELECTRICAL DEMOLITION SHALL BE DONE BY ELECTRICAL CONTRACTOR.
2. ALL EQUIPMENT AND WIRING NOT IN RENOVATED AREAS BUT AFFECTED BY WORK IN RENOVATED AREAS SHALL BE RECONNECTED AS NECESSARY FOR THE COMPLETE WORKING SYSTEM.
3. WHEN MECHANICAL UNITS ARE REMOVED, CONTRACTOR TO REMOVE DISCONNECT, WIRING AND CONDUIT TO POWER SOURCE, REFER TO MECHANICAL DEMOLITION DRAWINGS FOR EXACT MECHANICAL EQUIPMENT LOCATIONS.
4. TRACE ALL CIRCUITS NECESSARY FOR THE WORK.
5. REFER TO MECHANICAL SHEET FOR LOCATIONS OF ALL EQUIPMENT.
6. CONTRACTOR TO KEEP EXISTING RECEPTACLE CIRCUITS ON ROOF INTACT. REFER TO SHEET E2.03 FOR APPROXIMATE NEW RECEPTACLE LOCATIONS.

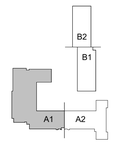
NOTES BY SYMBOL:

1	DISCONNECT AND REMOVE CIRCUIT TO EXISTING MECHANICAL EQUIPMENT. PREP EXISTING FEEDERS FOR REUSE. REFER TO MECHANICAL SHEETS FOR EXACT DEMOLITION SCOPE.

TRUE NORTH
PLAN NORTH

1 PARTIAL ELECTRICAL DEMO PLAN ROOF AREA 'A1'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL ELECTRICAL DEMO ROOF PLAN 'A1'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

E0.31

PROJECT NO.: 2023209

ELECTRICAL DEMOLITION GENERAL NOTES:

1. ALL ELECTRICAL DEMOLITION SHALL BE DONE BY ELECTRICAL CONTRACTOR.
2. ALL EQUIPMENT AND WIRING NOT IN RENOVATED AREAS BUT AFFECTED BY WORK IN RENOVATED AREAS SHALL BE RECONNECTED AS NECESSARY FOR THE COMPLETE WORKING SYSTEM.
3. WHEN MECHANICAL UNITS ARE REMOVED, CONTRACTOR TO REMOVE DISCONNECT, WIRING AND CONDUIT TO POWER SOURCE, REFER TO MECHANICAL DEMOLITION DRAWINGS FOR EXACT MECHANICAL EQUIPMENT LOCATIONS.
4. TRACE ALL CIRCUITS NECESSARY FOR THE WORK.
5. REFER TO MECHANICAL SHEET FOR LOCATIONS OF ALL EQUIPMENT.
6. CONTRACTOR TO KEEP EXISTING RECEPTACLE CIRCUITS ON ROOF INTACT. REFER TO SHEET E2.03 FOR APPROXIMATE NEW RECEPTACLE LOCATIONS.

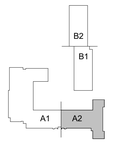
NOTES BY SYMBOL:

1	DISCONNECT AND REMOVE CIRCUIT FOR EXISTING MECHANICAL EQUIPMENT. PREP EXISTING FEEDERS FOR REUSE. REFER TO MECHANICAL SHEETS FOR EXACT DEMOLITION SCOPE.

TRUE NORTH
PLAN NORTH

1 PARTIAL ELECTRICAL DEMO PLAN ROOF AREA 'A2'
SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL ELECTRICAL DEMO ROOF PLAN 'A2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

E0.32

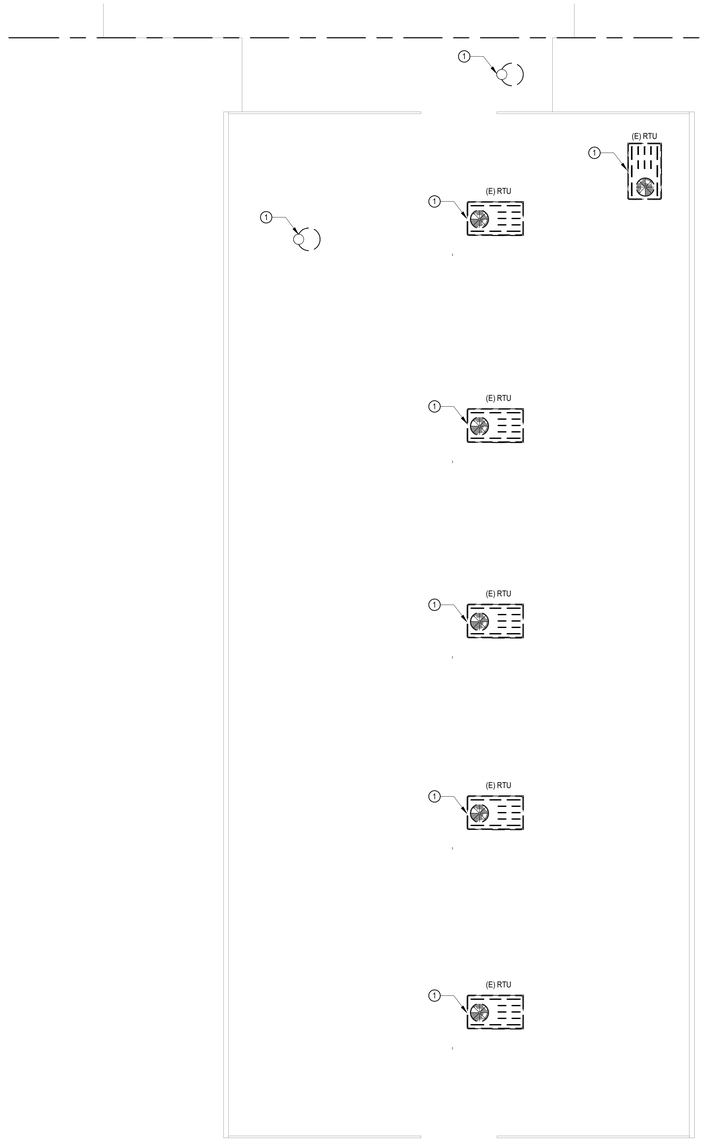
PROJECT NO.: 2023209

ELECTRICAL DEMOLITION GENERAL NOTES:

1. ALL ELECTRICAL DEMOLITION SHALL BE DONE BY ELECTRICAL CONTRACTOR.
2. ALL EQUIPMENT AND WIRING NOT IN RENOVATED AREAS BUT AFFECTED BY WORK IN RENOVATED AREAS SHALL BE RECONNECTED AS NECESSARY FOR THE COMPLETE WORKING SYSTEM.
3. WHEN MECHANICAL UNITS ARE REMOVED, CONTRACTOR TO REMOVE DISCONNECT, WIRING AND CONDUIT TO POWER SOURCE, REFER TO MECHANICAL DEMOLITION DRAWINGS FOR EXACT MECHANICAL EQUIPMENT LOCATIONS.
4. TRACE ALL CIRCUITS NECESSARY FOR THE WORK.
5. REFER TO MECHANICAL SHEET FOR LOCATIONS OF ALL EQUIPMENT.
6. CONTRACTOR TO KEEP EXISTING RECEPTACLE CIRCUITS ON ROOF INTACT. REFER TO SHEET E2.03 FOR APPROXIMATE NEW RECEPTACLE LOCATIONS.

NOTES BY SYMBOL:

1	DISCONNECT AND REMOVE CIRCUIT FOR EXISTING MECHANICAL EQUIPMENT. PREP EXISTING FEEDERS FOR REUSE. REFER TO MECHANICAL SHEETS FOR EXACT DEMOLITION SCOPE.



TRUE NORTH / PLAN NORTH

1 PARTIAL ELECTRICAL DEMO PLAN ROOF AREA 'B1'

SCALE: 1/8" = 1'-0"

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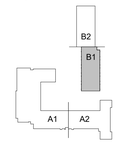
PARTIAL ELECTRICAL DEMO ROOF PLAN 'B1'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

KEY MAP



E0.33

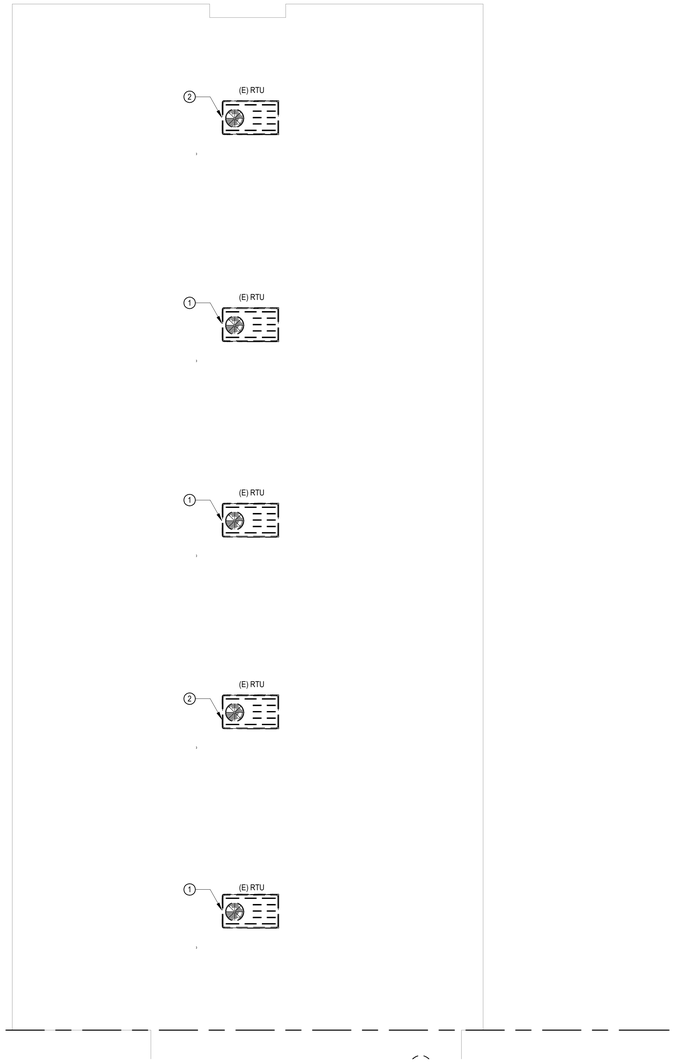
PROJECT NO.: 2023209

ELECTRICAL DEMOLITION GENERAL NOTES:

1. ALL ELECTRICAL DEMOLITION SHALL BE DONE BY ELECTRICAL CONTRACTOR.
2. ALL EQUIPMENT AND WIRING NOT IN RENOVATED AREAS BUT AFFECTED BY WORK IN RENOVATED AREAS SHALL BE RECONNECTED AS NECESSARY FOR THE COMPLETE WORKING SYSTEM.
3. WHEN MECHANICAL UNITS ARE REMOVED, CONTRACTOR TO REMOVE DISCONNECT, WIRING AND CONDUIT TO POWER SOURCE, REFER TO MECHANICAL DEMOLITION DRAWINGS FOR EXACT MECHANICAL EQUIPMENT LOCATIONS.
4. TRACE ALL CIRCUITS NECESSARY FOR THE WORK.
5. REFER TO MECHANICAL SHEET FOR LOCATIONS OF ALL EQUIPMENT.
6. CONTRACTOR TO KEEP EXISTING RECEPTACLE CIRCUITS ON ROOF INTACT. REFER TO SHEET E2.03 FOR APPROXIMATE NEW RECEPTACLE LOCATIONS.

NOTES BY SYMBOL:

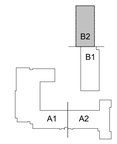
1	DISCONNECT AND REMOVE CIRCUIT FOR EXISTING MECHANICAL EQUIPMENT. PREP EXISTING FEEDERS FOR REUSE. REFER TO MECHANICAL SHEETS FOR EXACT DEMOLITION SCOPE.
2	DISCONNECT POWER TO EXISTING MECHANICAL EQUIPMENT. REMOVE RTU FOR REINSTALLATION. PREP EXISTING FEEDERS FOR REUSE. REFER TO MECHANICAL SHEETS FOR EXACT DEMOLITION SCOPE.



TRUE NORTH PLAN NORTH

1 PARTIAL ELECTRICAL DEMO PLAN ROOF AREA 'B2'
SCALE: 1/8" = 1'-0"

KEY MAP



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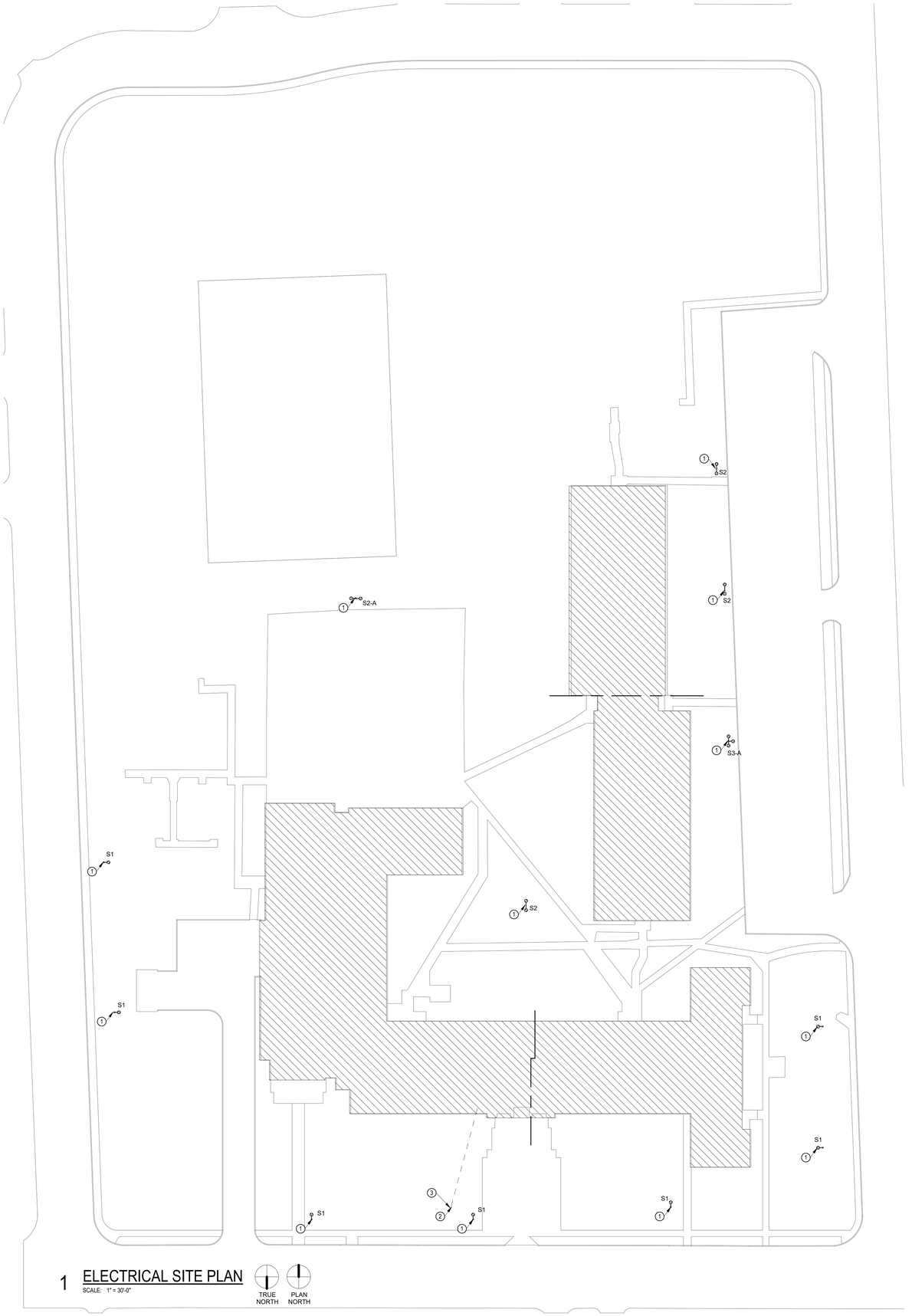
PARTIAL ELECTRICAL DEMO ROOF PLAN 'B2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

E0.34

PROJECT NO.: 2023209



1 ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

TRUE NORTH
PLAN NORTH

NOTES BY SYMBOL:

1	REPLACE EXISTING POLE FIXTURE WITH NEW LED FIXTURE. PROVIDE FIXTURES WITH INTEGRATED SENSORS. PROVIDE NEW DIGITAL TIMER FOR ALL EXISTING POLE LIGHT CIRCUITS. SITE VERIFY EXACT OUTSIDE AND INSIDE DIAMETER OF TENNON AND COORDINATE WITH SUPPLIER BEFORE ORDERING.
2	PROVIDE POWER FOR NEW MARQUEE SIGN. CONNECT TO NEAREST 120V PANEL 20A SPARE BREAKER. PROVIDE 2#10, #10 G. PROVIDE 1" CONDUIT FROM NEAREST ELECTRICAL ROOM. PROVIDE ETHERNET CELLULAR MODEM. COORDINATE EXACT REQUIREMENT WITH MARQUEE SIGN MANUFACTURER/ DISD.
3	ENSURE UPN FIBER RUNNING INTO BUILDING WILL NOT BE AFFECTED BY MARQUEE EXCAVATION. IF UPN FIBER NEEDS TO BE RELOCATED, NOTIFY DISD IMMEDIATLEY.

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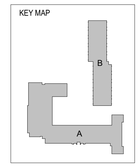
ELECTRICAL SITE PLAN

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

KEY MAP

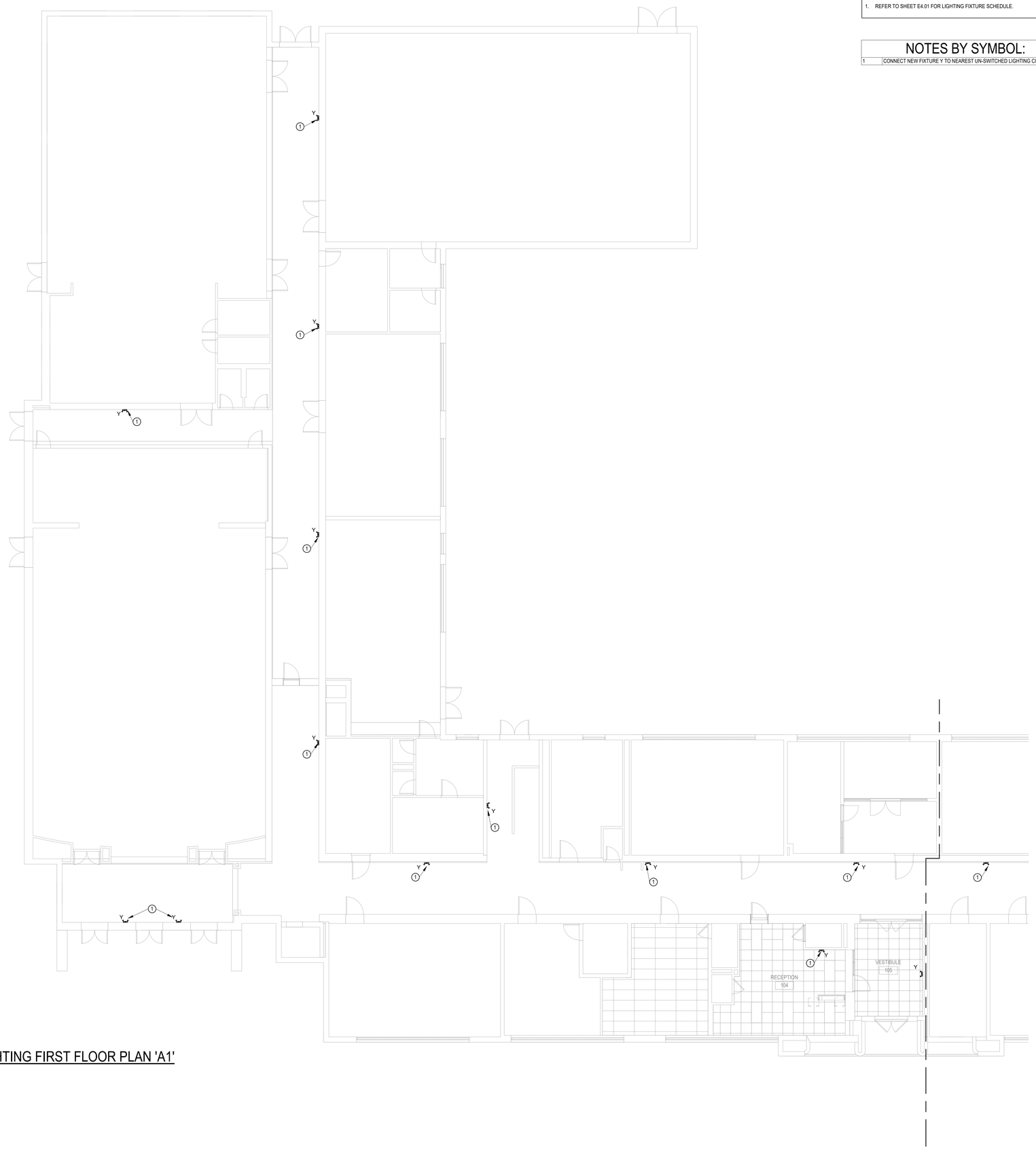


E1.00

PROJECT NO.: 2023209

LIGHTING GENERAL NOTES:
1. REFER TO SHEET E4.01 FOR LIGHTING FIXTURE SCHEDULE.

NOTES BY SYMBOL:	
1	CONNECT NEW FIXTURE Y TO NEAREST UN-SWITCHED LIGHTING CIRCUIT.

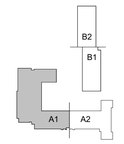


TRUE NORTH PLAN NORTH

1 PARTIAL LIGHTING FIRST FLOOR PLAN 'A1'

SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL LIGHTING FIRST FLOOR PLAN 'A1'

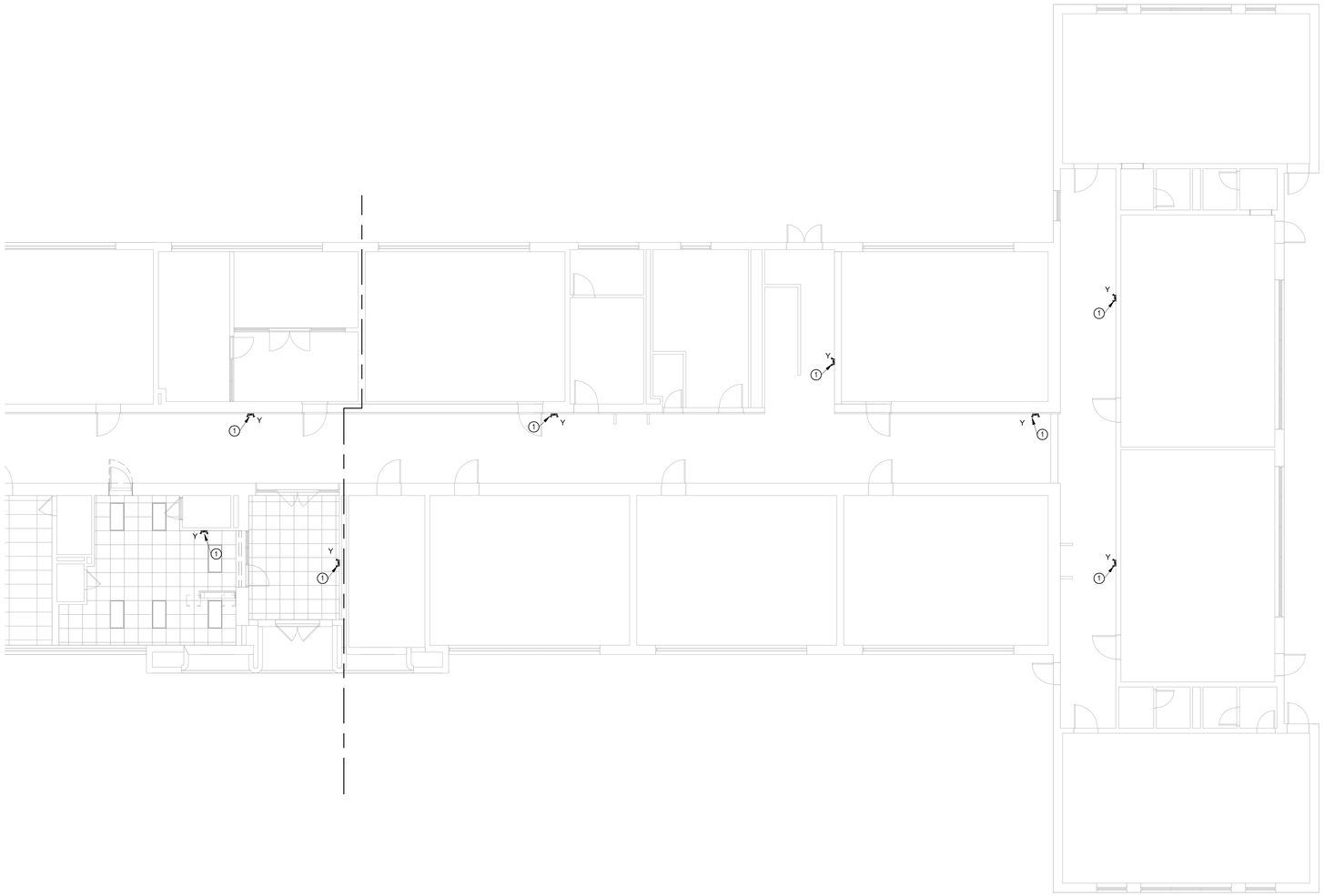
DRAWING RECORD	
DATE	DESCRIPTION
09/18/24	BID SET

E1.11

PROJECT NO.: 2023209

LIGHTING GENERAL NOTES:
1. REFER TO SHEET E4.01 FOR LIGHTING FIXTURE SCHEDULE.

NOTES BY SYMBOL:	
1	CONNECT NEW FIXTURE Y TO NEAREST UN-SWITCHED LIGHTING CIRCUIT.

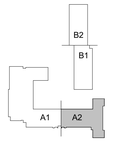


TRUE NORTH / PLAN NORTH

1 PARTIAL LIGHTING FIRST FLOOR PLAN 'A2'

SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL LIGHTING FIRST FLOOR PLAN 'A2'

DRAWING RECORD	
DATE	DESCRIPTION
09/18/24	BID SET

E1.12

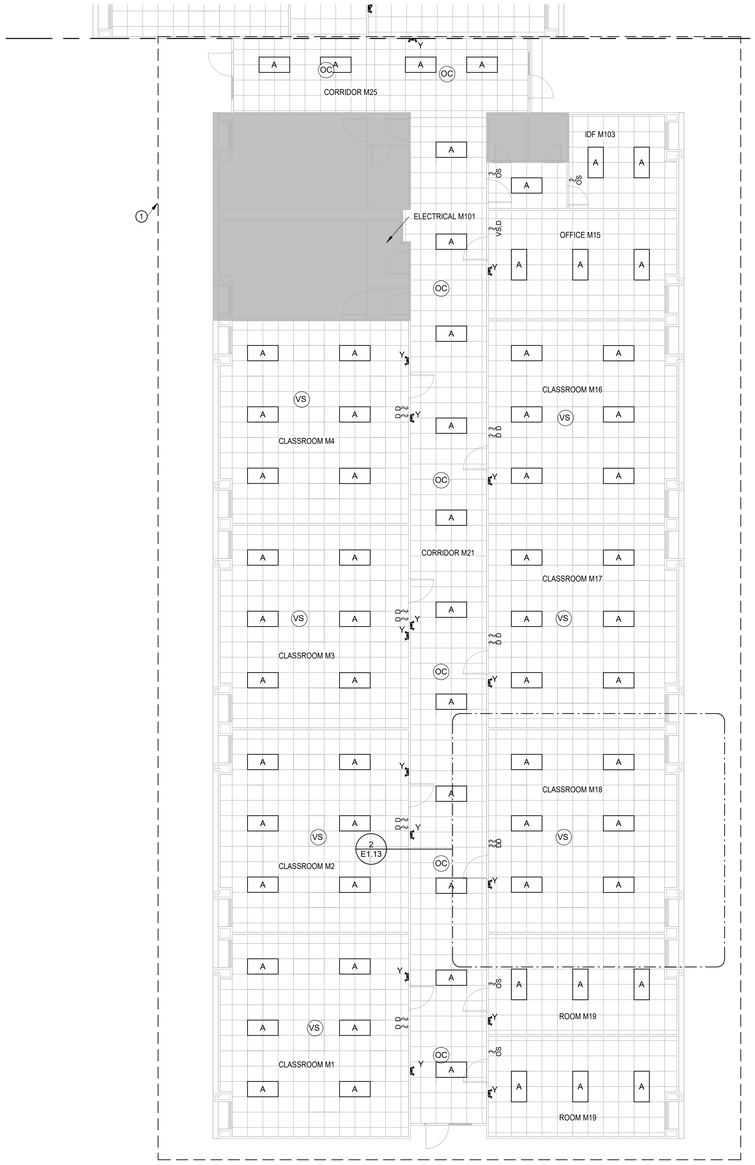
PROJECT NO.: 2023209

LIGHTING GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF ALL FIXTURES WITH ARCHITECTURAL CEILING ELEVATIONS PRIOR TO ROUGH-IN.
2. COORDINATE LOCATION OF ALL LIGHTING CONTROL DEVICES WITH DOOR SWINGS AND MECHANICAL CONTROL DEVICES.
3. RECONNECT TO EXISTING CIRCUIT PREVIOULSY FEEDING THE ROOM. DEPENDING ON LIGHTING CONTROLS, ADDITIONAL WIRING MAY BE REQUIRED BETWEEN POWER PACKS AND LIGHT FIXTURES.
4. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM. ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS.
5. IF EXISTING LIGHTING CIRCUITING DOES NOT HAVE A GROUND WIRE, AND ONE WILL HAVE TO BE ADDED.
6. BRANCH CIRCUITS TO THE JUNCTION BOX IN THE ROOMS THAT FEEDS THE SWITCHES, SHALL BE REPLACED FROM THE PANELS WITH A NEW BRANCH CIRCUITS HAVING A GROUND WIRE.
7. IF THERE IS A DUAL LEVEL SWITCHING IN EXISTING CLASSROOMS. CONDUIT CAN BE REUSED AND NEW BRANCH CIRCUITING TO FIXTURES WITH GROUND WIRES SHALL BE INSTALLED. INSTALL NEW PIGTAIL FROM J-BOXES TO FIXTURES.
8. FIXTURE CIRCUITS IN ROOMS THAT DO NOT HAVE EXISTING DUAL LEVEL SWITCHING, (CORRIDORS, STORAGE, TOILET ROOMS, ETC.) SHALL HAVE NEW BRANCH CIRCUITS INSTALLED WITH GROUND WIRES.
9. IN AREAS WHERE EXISTING LIGHTING IS BEING REPLACED, EXISTING CIRCUIT CABLE UTILIZED IF IT COMPLIES WITH IECC 2021 SWITCHING REQUIREMENTS.
10. LIGHTING CONTROLS TO BE ONE OF THE FOLLOWING:
    - PROVIDE DUAL ZONE PER CLASSROOM. MODIFY EXISTING CIRCUIT INSIDE CLASSROOM AS NEEDED.
    - PROVIDE DAYLIGHT HARVESTING WHERE REQUIRED BY THE DALLAS GREEN BUILDING CODE AND IECC 2021. PROVIDE LOW VOLTAGE SWITCHES IN EXISTING J-BOXES.
11. CONNECT FIXTURES "Y" TO NEAREST UN-SWITCHED LIGHTING CIRCUIT.

NOTES BY SYMBOL:

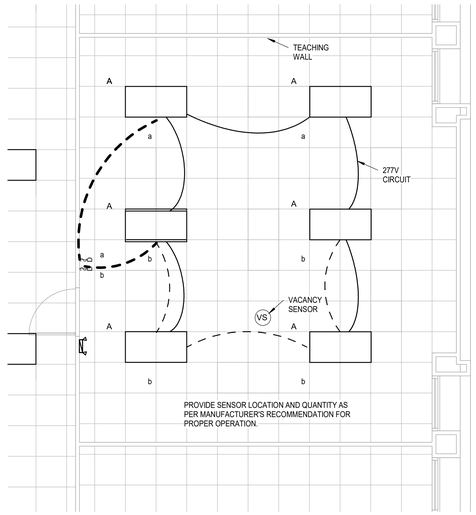
1	BID ALTERNATE 1: PROVIDE NEW FIXTURES AND LIGHTING CONTROL. ALL EXISTING EXIT LIGHT TO REMAIN.



TRUE NORTH PLAN NORTH

1 PARTIAL LIGHTING FIRST FLOOR PLAN 'B1'

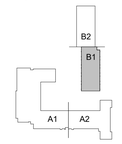
SCALE: 1/8" = 1'-0"



2 TYPICAL CLASSROOM LIGHTING LAYOUT

SCALE: 1/4" = 1'-0"

KEY MAP



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PARTIAL LIGHTING FIRST FLOOR PLAN 'B1' (BID ALTERNATE 1)

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

E1.13

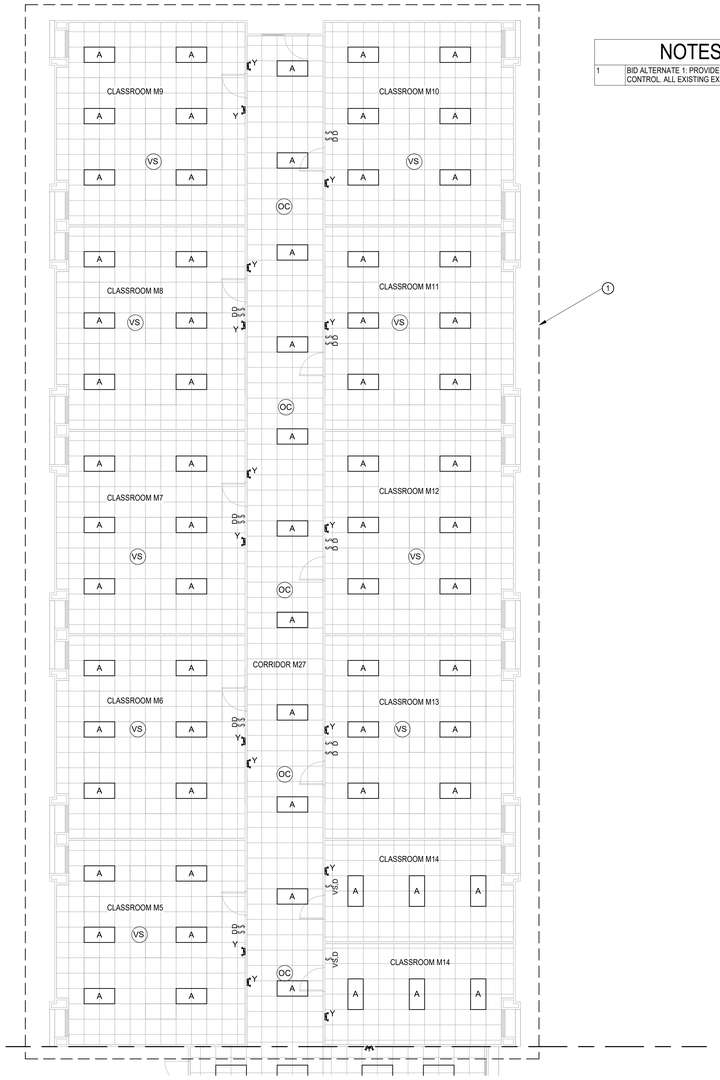
PROJECT NO.: 2023209

LIGHTING GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF ALL FIXTURES WITH ARCHITECTURAL CEILING ELEVATIONS PRIOR TO ROUGH-IN.
2. COORDINATE LOCATION OF ALL LIGHTING CONTROL DEVICES WITH DOOR SWINGS AND MECHANICAL CONTROL DEVICES.
3. RECONNECT TO EXISTING CIRCUIT PREVIOULSY FEEDING THE ROOM. DEPENDING ON LIGHTING CONTROLS, ADDITIONAL WIRING MAY BE REQUIRED BETWEEN POWER PACKS AND LIGHT FIXTURES.
4. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM. ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS.
5. IF EXISTING LIGHTING CIRCUITING DOES NOT HAVE A GROUND WIRE, AND ONE WILL HAVE TO BE ADDED.
6. BRANCH CIRCUITS TO THE JUNCTION BOX IN THE ROOMS THAT FEEDS THE SWITCHES, SHALL BE REPLACED FROM THE PANELS WITH A NEW BRANCH CIRCUITS HAVING A GROUND WIRE.
7. IF THERE IS A DUAL LEVEL SWITCHING IN EXISTING CLASSROOMS. CONDUIT CAN BE REUSED AND NEW BRANCH CIRCUITING TO FIXTURES WITH GROUND WIRES SHALL BE INSTALLED. INSTALL NEW PIGTAIL FROM J-BOXES TO FIXTURES.
8. FIXTURE CIRCUITS IN ROOMS THAT DO NOT HAVE EXISTING DUAL LEVEL SWITCHING, (CORRIDORS, STORAGE, TOILET ROOMS, ETC.) SHALL HAVE NEW BRANCH CIRCUITS INSTALLED WITH GROUND WIRES.
9. IN AREAS WHERE EXISTING LIGHTING IS BEING REPLACED, EXISTING CIRCUIT CABLE UTILIZED IF IT COMPLIES WITH IECC 2021 SWITCHING REQUIREMENTS.
10. LIGHTING CONTROLS TO BE ONE OF THE FOLLOWING:
    - PROVIDE DUAL ZONE PER CLASSROOM. MODIFY EXISTING CIRCUIT INSIDE CLASSROOM AS NEEDED.
    - PROVIDE DAYLIGHT HARVESTING WHERE REQUIRED BY THE DALLAS GREEN BUILDING CODE AND IECC 2021. PROVIDE LOW VOLTAGE SWITCHES IN EXISTING J-BOXES.
11. CONNECT FIXTURES "Y" TO NEAREST UN-SWITCHED LIGHTING CIRCUIT.

NOTES BY SYMBOL:

1	BID ALTERNATE 1: PROVIDE NEW OF EXISTING FIXTURES AND LIGHTING CONTROL. ALL EXISTING EXIT LIGHT TO REMAIN.

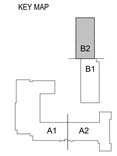


TRUE NORTH PLAN NORTH

1 PARTIAL LIGHTING FIRST FLOOR PLAN 'B2'

SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL LIGHTING FIRST FLOOR PLAN 'B2' (BID ALTERNATE 1)

DRAWING RECORD

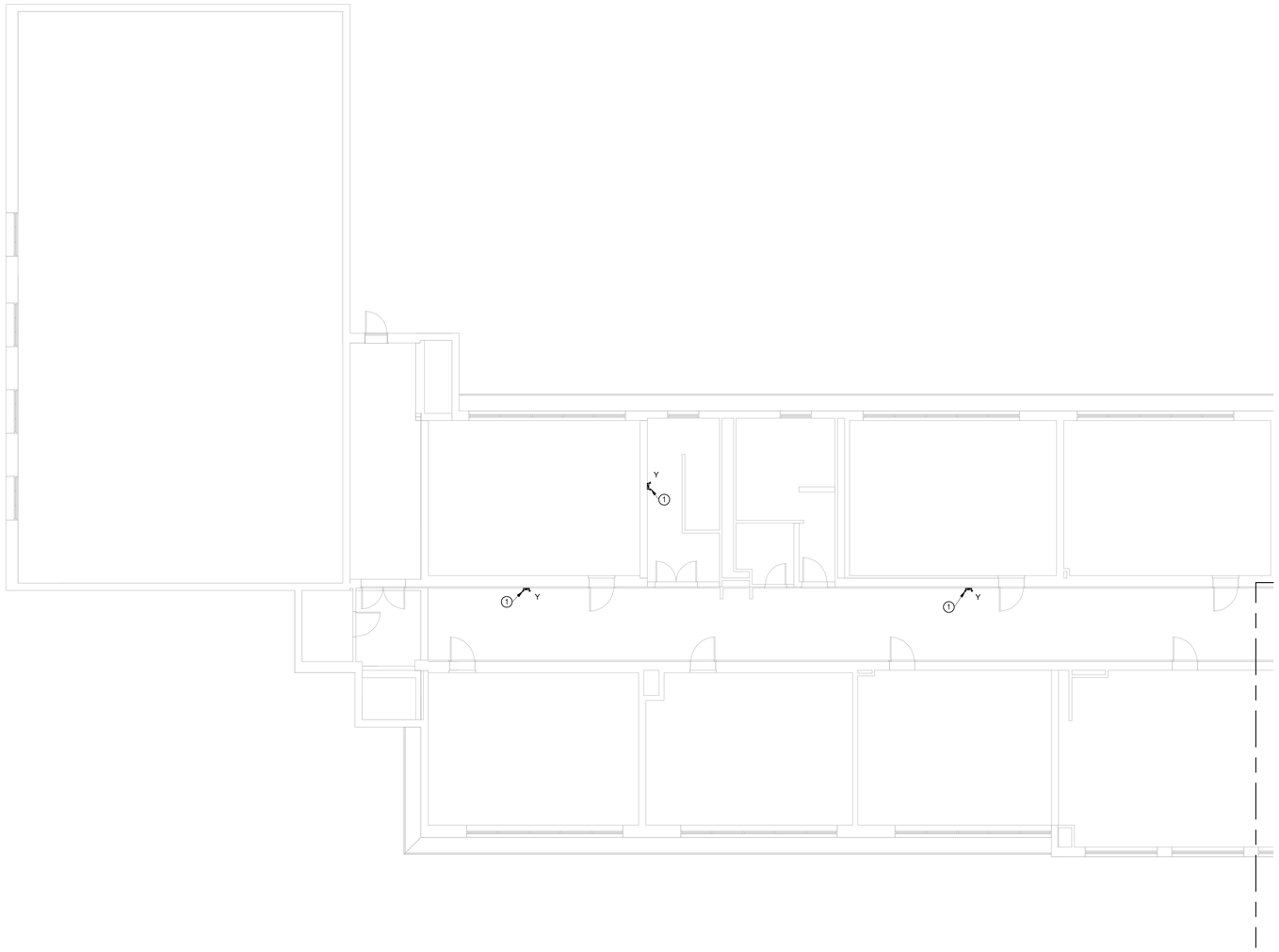
DATE	DESCRIPTION
09/18/24	BID SET

E1.14

PROJECT NO.: 2023209

LIGHTING GENERAL NOTES:
1. REFER TO SHEET E4.01 FOR LIGHTING FIXTURE SCHEDULE.

NOTES BY SYMBOL:	
1	CONNECT NEW FIXTURE Y TO NEAREST UN-SWITCHED LIGHTING CIRCUIT.

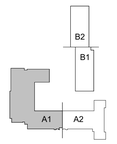


TRUE NORTH PLAN NORTH 1

PARTIAL LIGHTING SECOND FLOOR PLAN 'A1'

SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL LIGHTING SECOND FLOOR PLAN 'A1'

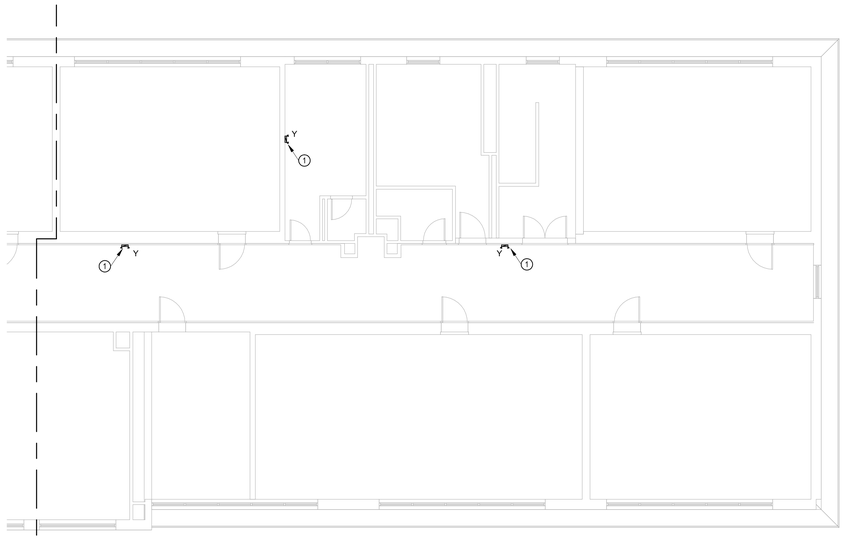
DRAWING RECORD	
DATE	DESCRIPTION
09/18/24	BID SET

E1.21

PROJECT NO.: 2023209

LIGHTING GENERAL NOTES:
1. REFER TO SHEET E4.01 FOR LIGHTING FIXTURE SCHEDULE.

NOTES BY SYMBOL:	
1	CONNECT NEW FIXTURE Y TO NEAREST UN-SWITCHED LIGHTING CIRCUIT.

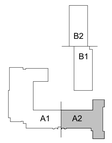


TRUE NORTH / PLAN NORTH

1 PARTIAL LIGHTING SECOND FLOOR PLAN 'A2'

SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL LIGHTING SECOND FLOOR PLAN 'A2'

DRAWING RECORD	
DATE	DESCRIPTION
09/18/24	BID SET

E1.22

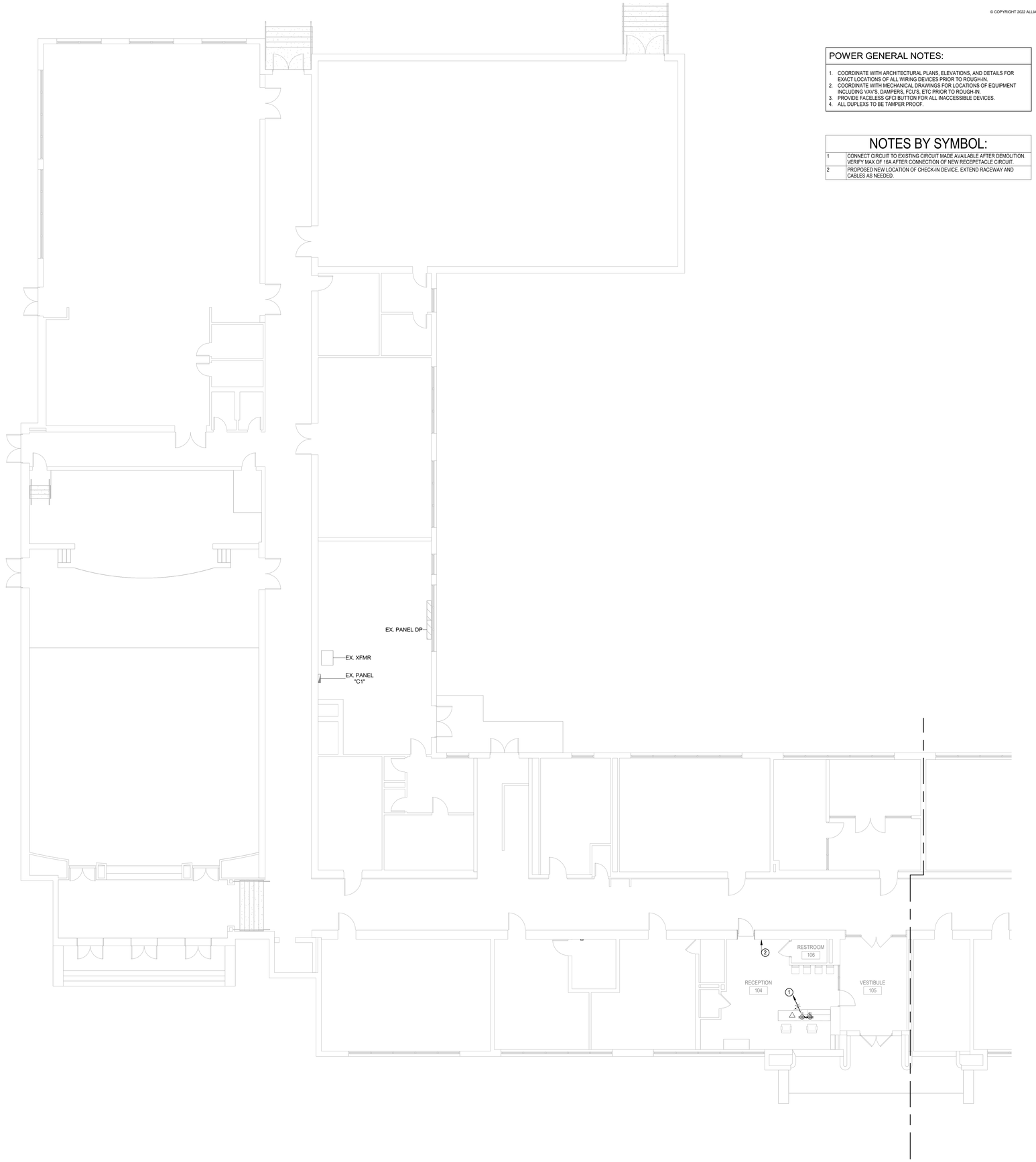
PROJECT NO.: 2023209

POWER GENERAL NOTES:

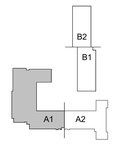
1. COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL WIRING DEVICES PRIOR TO ROUGH-IN.
2. COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT INCLUDING VAV'S, DAMPERS, FCU'S, ETC PRIOR TO ROUGH-IN.
3. PROVIDE FACELESS GFCI BUTTON FOR ALL INACCESSIBLE DEVICES.
4. ALL DUPLEXS TO BE TAMPER PROOF.

NOTES BY SYMBOL:

1	CONNECT CIRCUIT TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. VERIFY MAX OF 16A AFTER CONNECTION OF NEW RECEPETACLE CIRCUIT.
2	PROPOSED NEW LOCATION OF CHECK-IN DEVICE. EXTEND RACEWAY AND CABLES AS NEEDED.



KEY MAP



TRUE NORTH / PLAN NORTH

1 PARTIAL POWER FIRST FLOOR PLAN 'A1'

SCALE: 1/8" = 1'-0"

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PARTIAL POWER FIRST FLOOR PLAN 'A1'

DRAWING RECORD

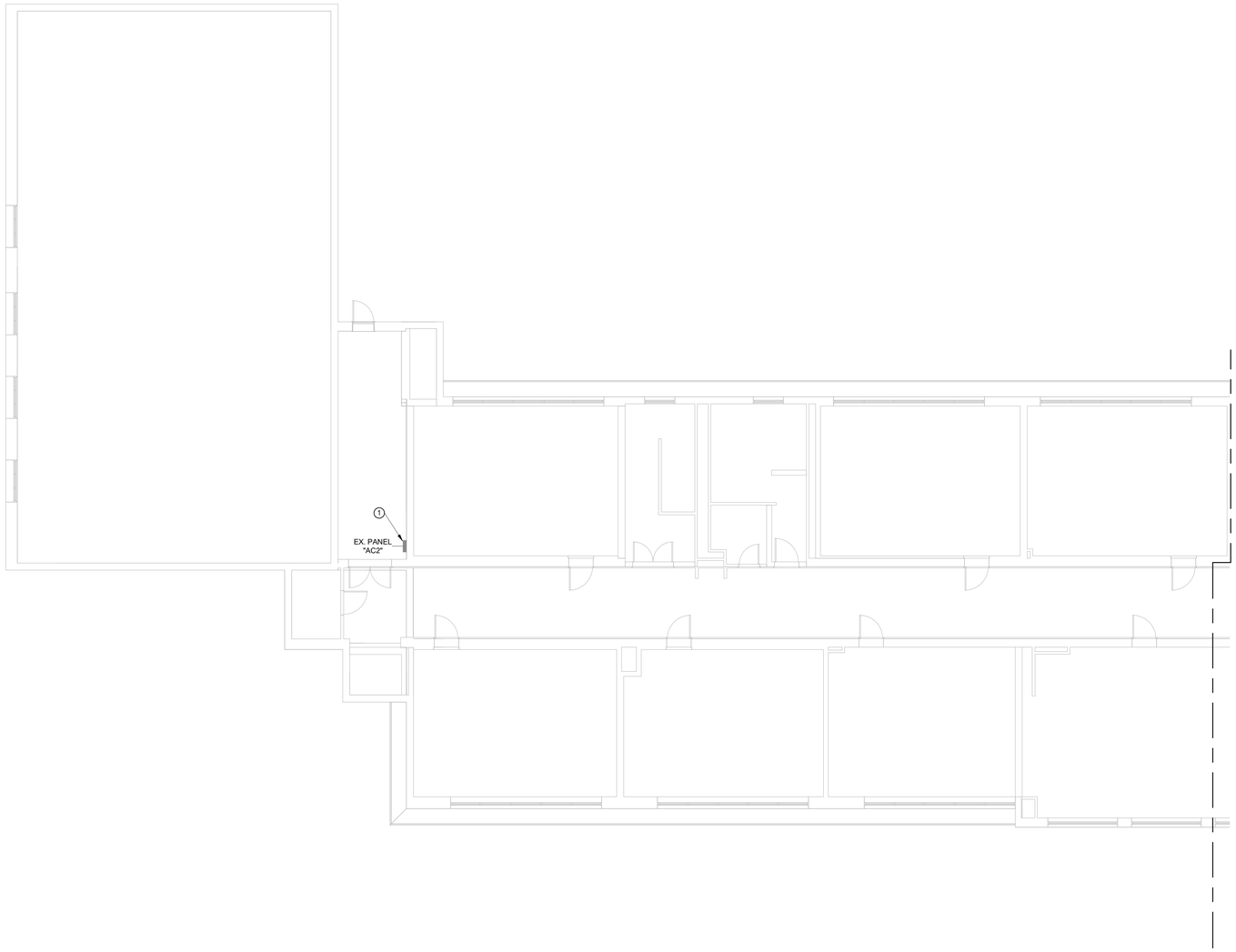
DATE	DESCRIPTION
09/18/24	BID SET

E2.11

PROJECT NO.: 2023209

POWER GENERAL NOTES:
1. COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL WIRING DEVICES PRIOR TO ROUGH-IN. 2. COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT INCLUDING VAV'S, DAMPERS, FCU'S, ETC PRIOR TO ROUGH-IN. 3. PROVIDE FACELESS GFCI BUTTON FOR ALL INACCESSIBLE DEVICES. 4. ALL DUPLEXS TO BE TAMPER PROOF.

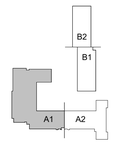
NOTES BY SYMBOL:	
1	LOCATION OF PANEL AC2.



1 PARTIAL POWER SECOND FLOOR PLAN 'A1'
SCALE: 1/8" = 1'-0"

TRUE NORTH PLAN NORTH

KEY MAP



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7900 Hume Dr, Dallas, TX 75227

PARTIAL POWER SECOND FLOOR PLAN 'A1'

DRAWING RECORD

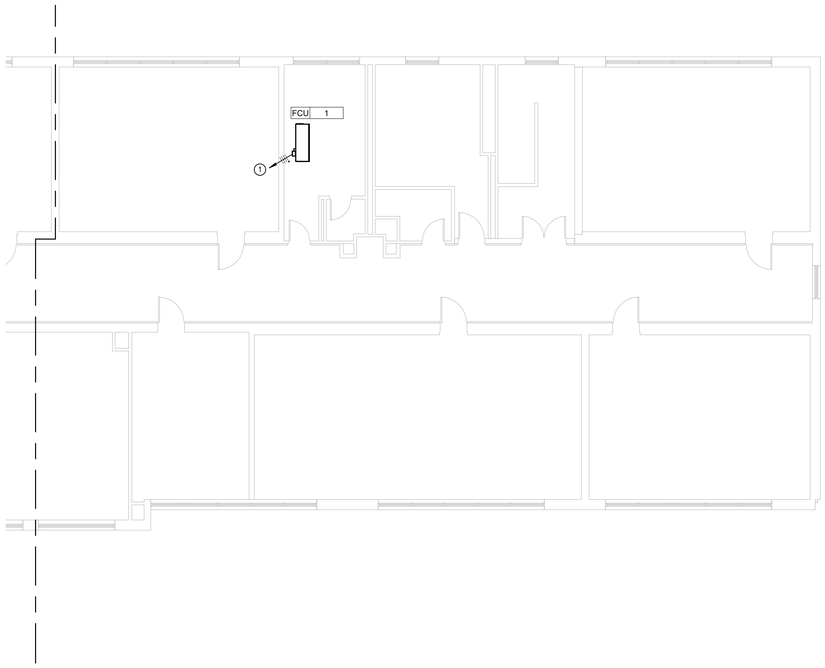
DATE	DESCRIPTION
09/18/24	BID SET

E2.21

PROJECT NO.: 2023209

POWER GENERAL NOTES:
1. COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL WIRING DEVICES PRIOR TO ROUGH-IN. 2. COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT INCLUDING VAV'S, DAMPERS, FCU'S, ETC PRIOR TO ROUGH-IN. 3. PROVIDE FACELESS GFCI BUTTON FOR ALL INACCESSIBLE DEVICES. 4. ALL DUPLEXS TO BE TAMPER PROOF.

NOTES BY SYMBOL:	
1	PROVIDE 600V 60A 3P NEMA 1 DISCONNECT SWITCH FOR FCU-1. CONNECT TO PANEL AC2. PROVIDE NEW 60A 3P CIRCUIT BREAKER AND 3 #6, #10 G IN 1" C.

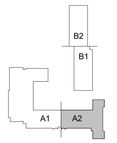


TRUE NORTH / PLAN NORTH

1 PARTIAL POWER SECOND FLOOR PLAN 'A2'

SCALE: 1/8" = 1'-0"

KEY MAP



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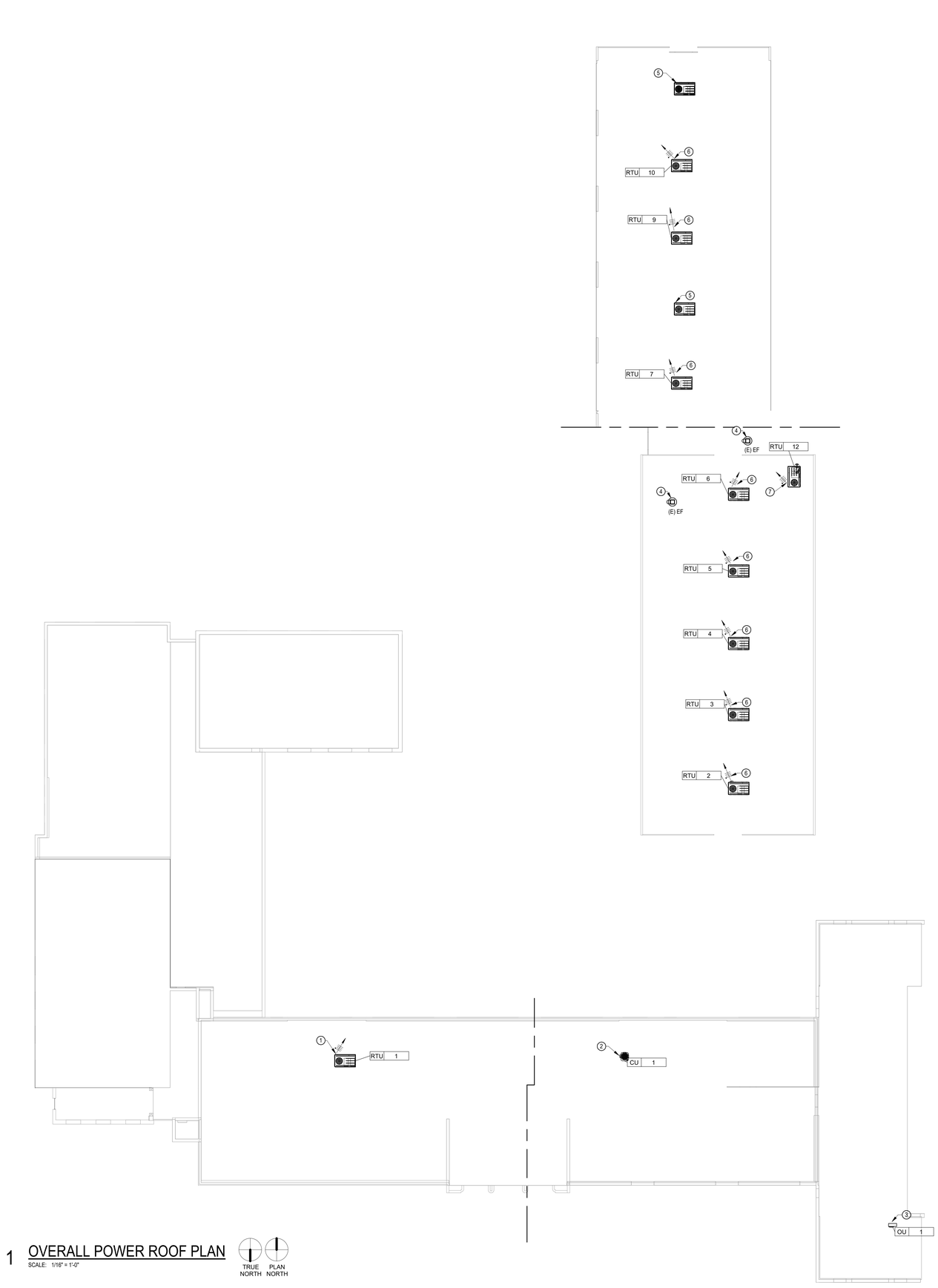
PARTIAL POWER SECOND FLOOR PLAN 'A2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

E2.22

PROJECT NO.: 2023209



1 OVERALL POWER ROOF PLAN

SCALE: 1/16" = 1'-0"

TRUE NORTH PLAN NORTH

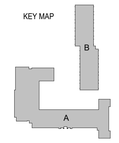
POWER ROOF GENERAL NOTES:

1. REFER TO DRAWING E0.01 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND NOTES.
2. ALL RECEPTACLES ON ROOF SHALL BE 'GFCI/WP' TYPE.
3. ALL WIRES SHALL BE THHN/THWN COPPER, 600V, MIN. CIRCUIT SIZE IS IP-20A, 2# 12, #12G-IN 3/4"C. UNLESS OTHERWISE NOTED.
4. VERIFY EXACT LOCATIONS FOR HVAC EQUIPMENT WITH MECHANICAL DRAWINGS AND LOCATED DISCONNECT SWITCHES IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
5. ALL 110V RUNS LONGER THAN 100' AND 277V RUNS LONGER THAN 200' SHALL BE 10.
6. ALL DISCONNECT SWITCHES ON ROOF SHALL BE NEMA 3R TYPE.
7. ALL MOTOR RATED SWITCHES SHALL BE WEATHERPROOF TYPE.

NOTES BY SYMBOL:

1	CONNECT NEW RTU TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. EXTEND CONDUCTORS AND RACEWAYS TO NEW RAISED LOCATION AS REQUIRED BY THE ROOFER AT NO COST TO THE OWNER. PROVIDE 3# 12, #12 G IN 3/4" C IF THE EXISTING CIRCUIT IS NOT COMPATIBLE. REPLACE EXISTING 3 POLE BREAKER WITH A NEW 15A 3P CIRCUIT BREAKER INSIDE EXISTING PANEL SERVING THIS UNIT. SITE VERIFY EXACT LOCATION OF EXISTING PANEL SERVING THIS UNIT. MATCH EXISTING BREAKER MANUFACTURER AND AIC RATING. DISCONNECT SWITCH WILL BE PROVIDED BY MECHANICAL CONTRACTOR.
2	PROVIDE 600V 30A 2P NEMA 3R DISCONNECT SWITCH FOR CU-1. CONNECT TO PANEL AC2 2 INSIDE 2ND FLOOR ELECTRICAL ROOM. PROVIDE NEW 20A 2P CIRCUIT BREAKER AND 2 #12, #12 G IN 3/4" C.
3	CONNECT NEW OUTDOOR UNIT EQUIPMENT TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. EXTEND CONDUCTORS AND RACEWAYS TO NEW RAISED LOCATION AS REQUIRED BY THE ROOFER AT NO COST TO OWNER. SITE VERIFY NEW HVAC EQUIPMENT IS COMPATIBLE WITH EXISTING CIRCUIT AND BREAKER SIZE BEFORE ORDERING.
4	RECONNECT EXHAUST FAN TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. EXTEND CONDUCTORS AND RACEWAYS TO NEW RAISED LOCATION AS REQUIRED BY THE ROOFER AT NO COST TO OWNER. SITE VERIFY NEW EF EQUIPMENT IS COMPATIBLE WITH EXISTING CIRCUIT AND BREAKER SIZE BEFORE ORDERING.
5	RECONNECT EXISTING RTU EQUIPMENT TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. EXTEND CONDUCTORS AND RACEWAYS TO NEW RAISED LOCATION AS REQUIRED BY THE ROOFER AT NO COST TO OWNER.
6	CONNECT NEW RTU TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. EXTEND CONDUCTORS AND RACEWAYS TO NEW RAISED LOCATION AS REQUIRED BY THE ROOFER AT NO COST TO THE OWNER. PROVIDE 3# 12, #12 G IN 3/4" C IF THE EXISTING CIRCUIT IS NOT COMPATIBLE. REPLACE EXISTING 3 POLE BREAKER WITH A NEW 20A 3P CIRCUIT BREAKER INSIDE PANEL H-JC INSIDE ELECTRICAL ROOM M101. MATCH EXISTING BREAKER MANUFACTURER AND AIC RATING. DISCONNECT SWITCH WILL BE PROVIDED BY MECHANICAL CONTRACTOR.
7	CONNECT NEW RTU TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. EXTEND CONDUCTORS AND RACEWAYS TO NEW RAISED LOCATION AS REQUIRED BY THE ROOFER AT NO COST TO THE OWNER. PROVIDE 3# 12, #12 G IN 3/4" C IF THE EXISTING CIRCUIT IS NOT COMPATIBLE. REPLACE EXISTING 3 POLE BREAKER WITH A NEW 15A 3P CIRCUIT BREAKER INSIDE PANEL H-JC INSIDE ELECTRICAL ROOM M101. MATCH EXISTING BREAKER MANUFACTURER AND AIC RATING. DISCONNECT SWITCH WILL BE PROVIDED BY MECHANICAL CONTRACTOR.

KEY MAP



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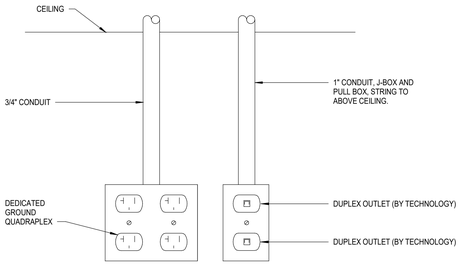
POWER PLAN - ROOF

DRAWING RECORD

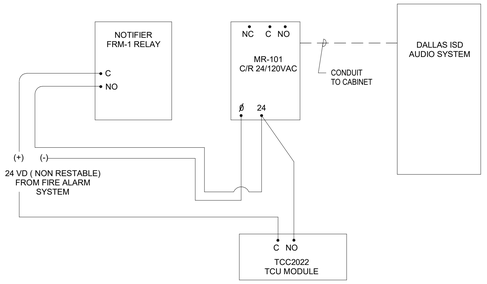
DATE	DESCRIPTION
09/18/24	BID SET

E2.30

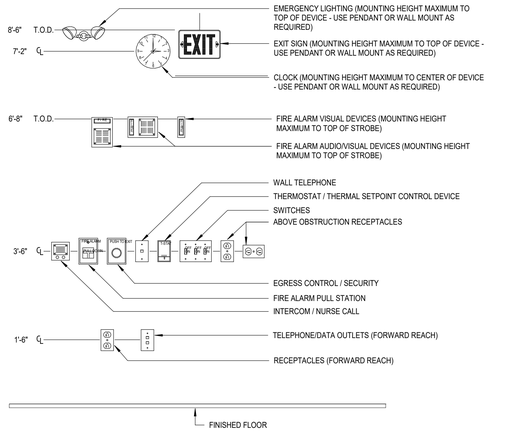
PROJECT NO.: 2023209



5 DUPLEX DATA OUTLETS QUAD ELECTRICAL OUTLETS
SCALE: NOT TO SCALE



4 FIRE ALARM SYSTEM AUDIO OVERRIDE DETAIL
SCALE: NOT TO SCALE



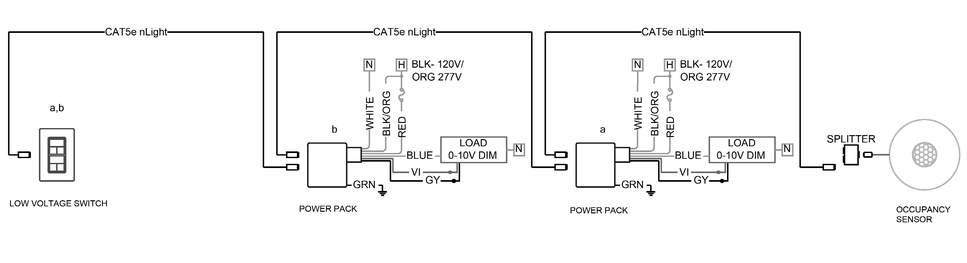
NOTES:
1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS, EMERGENCY LIGHTING AND FIRE ALARM A/V DEVICES.

2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.

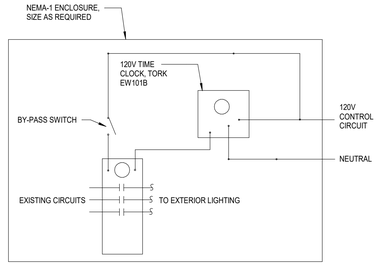
3. ALL RECEPTACLES ARE FRONT-REACH AT 1'-8" U.N.O. ON PLANS.

4. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED ON ARCHITECTURAL ELEVATION. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL NOT MOUNT ITEMS IN VIOLATION OF ADA OR LOCAL ACCESSIBILITY REQUIREMENTS. ANY CONFLICTS BETWEEN ARCHITECTURAL ELEVATIONS AND CODE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO ELECTRICAL ROUGH-IN.

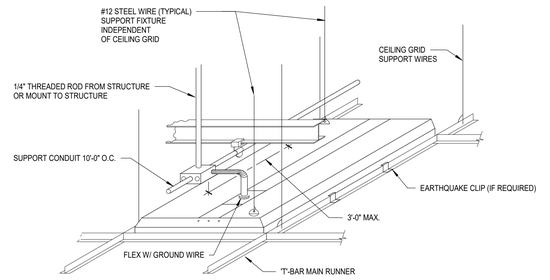
2 TYPICAL DEVICE MOUNTING HEIGHTS DETAIL
SCALE: NOT TO SCALE



6 CLASSROOM LIGHTING CONTROL DIAGRAM
SCALE: 1/2" = 1'-0"



3 EXTERIOR LIGHT CONTROL SCHEMATIC
SCALE: NOT TO SCALE



1 LAY-IN LED 2x4 FIXTURE DETAIL
SCALE: NOT TO SCALE

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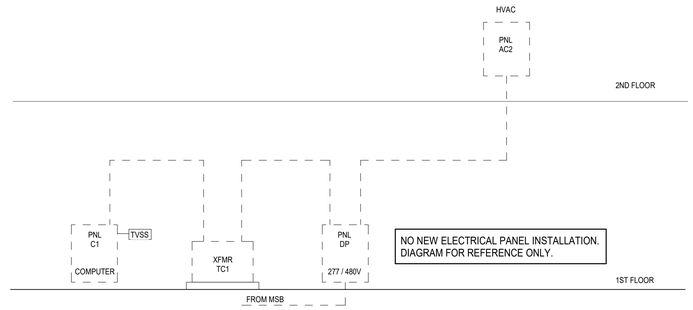
ELECTRICAL DETAILS

DRAWING RECORD	
DATE	DESCRIPTION
09/18/24	BID SET

E3.01

PROJECT NO.: 2023209



1 RISER DIAGRAM
SCALE: NOT TO SCALE

LIGHTING FIXTURE SCHEDULE NEW

TYPE	DESCRIPTION	VOLTAGE	WATTAGE	MANUFACTURER	MODEL
A	2'x4' LED FIXTURE	MVOLT	49 W	SIGNIFY	2FGXG43L-840-4-UNV-FS-DIM
S1	EXTRIOR LED FIXTURE SINGLE HEAD	MVOLT	235 W	SIGNIFY	OPF-L-A19-840-T3M
S2	EXTRIOR LED FIXTURE DOUBLE HEAD	MVOLT	470 W	SIGNIFY	OPF-L-A19-840-T3
S2-A	EXTRIOR LED FIXTURE DOUBLE HEAD	MVOLT	785 W	SIGNIFY	OPF-L-A30-840-T3M
S3-A	EXTRIOR LED FIXTURE TRIPLE HEAD	MVOLT	631 W	SIGNIFY	OPF-L-A17-840-T3M
Y	SURFACE MOUNTED LED EMERGENCY BUG-EYE LIGHT FIXTURE, STANDARD WHITE FINISH, WITH 90 MIN BATTERY	MVOLT	7 W	LITHONIA	ELM4L

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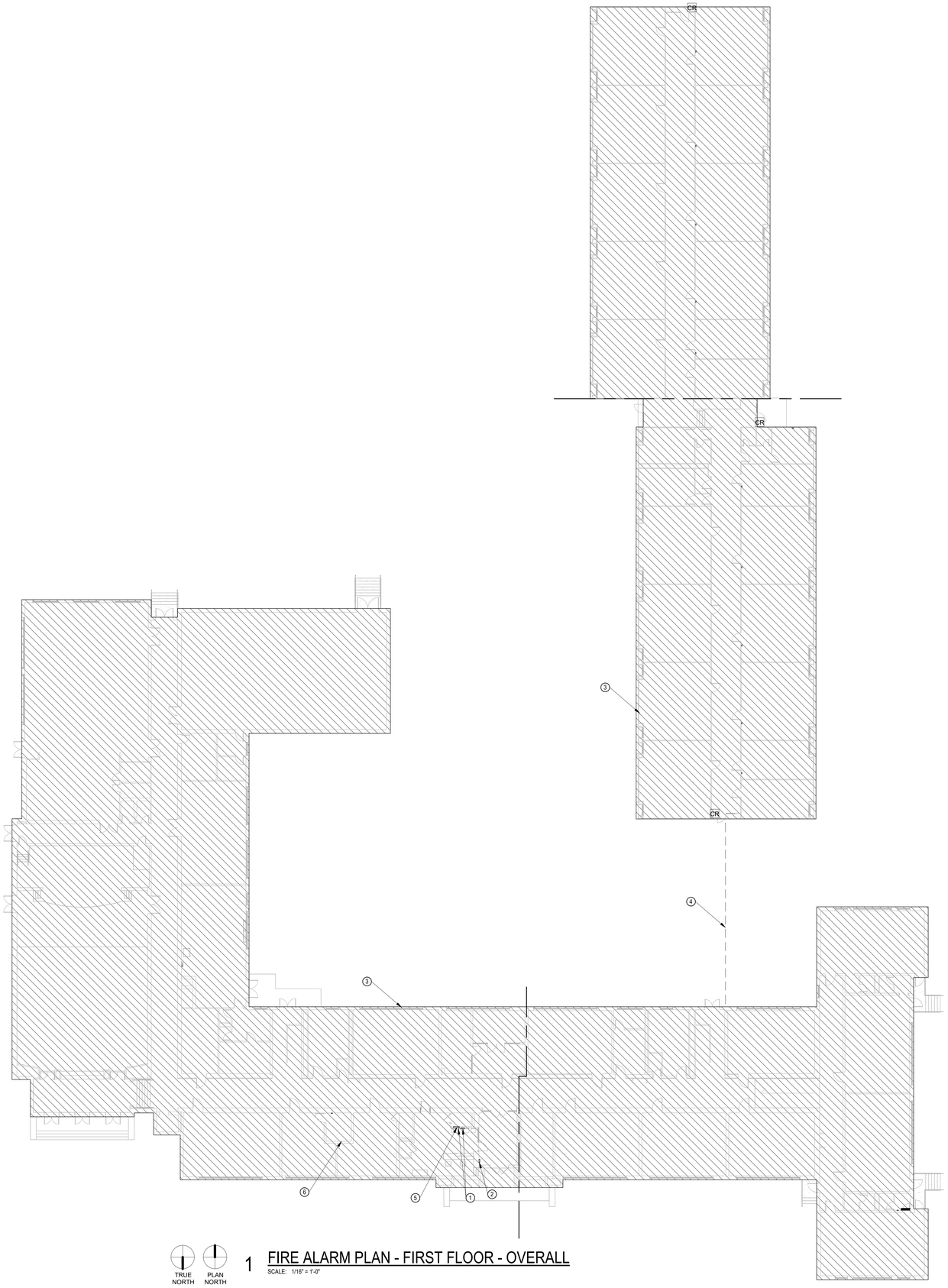
ELECTRICAL SCHEDULES AND DIAGRAMS

DRAWING RECORD

DATE	DESCRIPTION

E4.01

PROJECT NO.: 2023209



1 FIRE ALARM PLAN - FIRST FLOOR - OVERALL
SCALE: 1/16" = 1'-0"

TRUE NORTH PLAN NORTH

GENERAL NOTES - FIRE ALARM - DISD:

1. NEW FIRE ALARM AND VOICE EVACUATION SYSTEM SHALL BE DESIGNED TO SERVE THE WHOLE BUILDING. EXISITING FIRE ALARM SYSTEM TO REMAIN IN OPERATION UNTIL NEW SYSTEM IS INSTALLED TESTED AND APPROVED BY FIRE MARSHAL, AND THEN THE OLD SYSTEM AND WIRING SHALL BE REMOVED.
2. PROVIDE NOTIFIER NFS2-3030 WITH VOICE EVACUATION, LOCATED IN THE ADMINISTRATION AREA. COMPLETE FIRE ALARM SYSTEM AND VOICE EVACUATION SYSTEM SHALL COMPLY WITH CURRENT CODES AND REQUIREMENTS OF FIRE MARSHAL AND AHJ, SEE SPECIFICATIONS 284621.
3. ALL BUILDINGS SHALL BE CONNECTED TOGETHER THROUGH CRAWL SPACES, CABLE BASKETS, AND/OR CONDUITS AS REQUIRED TO PROVIDE CONNECTIVITY TO MAKE THE CONTRACTORS SYSTEM DESIGN FUNCTIONABLE. FIRE ALARM SYSTEM WILL INCLUDE COVERAGE OF ALL PORTABLE BUILDINGS.
4. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANY ADDITIONAL PATHWAYS, POWER SUPPLIES AND ELECTRICAL OUTLETS REQUIRED FOR POWER SUPPLIES AND EQUIPMENT THAT IS A PART OF THEIR SYSTEM DESIGN. COORDINATE WITH GENERAL CONTRACTOR FOR ALL PATHWAY AND POWER NEEDS AT NO ADDITIONAL COST TO OWNER.
5. IN AREAS ON THE DRAWING, WHERE CEILING WILL BE REMOVED. FIRE ALARM CONTRACTOR SHALL REMOVE ALL DEVICES FROM WORK AREA, AND TIE-UP/MAKE SAFE IN ORDER TO KEEP EXISTING FIRE ALARM SYSTEM OPERABLE DURING CONSTRUCTION.
6. IN AREAS WITHOUT CEILINGS, OR SUBJECT TO PHYSICAL DAMAGE, THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANY NEW CONDUIT NEEDED FOR PHYSICAL PROTECTION. COORDINATE WITH GENERAL CONTRACTOR FOR ALL CONDUIT NEEDS AT NO ADDITIONAL COST TO OWNER.
7. THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND IN COMPLIANCE WITH NFPA 72 AND MEET LOCALLY ENFORCED CODE AND ADA REQUIREMENTS.
8. THE FIRE ALARM SYSTEM SHALL FORM A COMPLETE, OPERATIVE, COORDINATED SYSTEM INCLUDING, BUT NOT LIMITED TO ALARM INITIATING DEVICES, ALARM NOTIFICATION APPLIANCES, CONTROL PANEL, AUXILIARY CONTROL DEVICES, DUCT DETECTORS, VOICE EVACUATION SYSTEM, ANNUNCIATORS, POWER SUPPLIES AND WIRING AS SPECIFIED.
9. THE NEW FIRE ALARM SYSTEM SHALL BE MULTI-MODE NETWORK CAPABLE WITH HIGH-SPEED DATA COMMUNICATIONS COMPATIBLE WITH BACNET/IP AND MODBUS/IP.
10. THE CONTRACTOR SHALL OBTAIN AND ENGAGE THE SERVICES OF A LICENSED FIRE ALARM INSTALLATION COMPANY TO DESIGN, INSTALL AND TEST THE FIRE ALARM SYSTEM.
11. THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL AUTHORITY HAVING JURISDICTION WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR ADDRESSED IN SPECIFICATIONS.
12. CROSS HATCHING INDICATES ALL AREAS ON CAMPUS THAT ARE TO GET NEW FIRE ALARM SYSTEMS.
13. PROVIDE SMOKE DETECTORS IN ELECTRICAL AND COMMUNICATION ROOMS.
14. MONITOR ALL FIRE PROTECTION SYSTEM TAMPER SWITCHES, FLOW SWITCHES OR PRESSURE SWITCHES.
15. PROVIDE DUCT SMOKE DETECTORS ON THE RETURN SIDE OF THE UNIT IF GREATER THAN 2000 CFM AND LESS THAN 15,000 CFM AND FOR UNIT WITH 15,000 CFM AND MORE, PROVIDE DUCT DETECTOR ON SUPPLY SIDE AND RETURN SIDE FOR EMERGENCY SHUTDOWN OF THE UNIT ALARM.
16. ALL DEVICES SHALL BE ADDRESSABLE. ALL SMOKE AND HEAT DETECTORS SHALL BE INTELLIGENT TYPE.
17. ACTUATION OF ANY INITIATING DEVICE SHALL CAUSE A GENERAL ALARM BOTH AUDIBLE AND VISUAL AND SHALL ALSO SEND AN AUDIBLE AND VISUAL ALARM AT THE CENTRAL STATION WHICH IN TURN SHALL NOTIFY THE FIRE DEPARTMENT.
18. PROVIDE DUCT DETECTORS WHERE REQUIRED BY NFPA, SUPPLY FROM NEAREST 120V PANEL.
19. PROVIDE PROTECTIVE COVERS FOR FIRE ALARM DEVICES LOCATED IN GYM.
20. CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENTS, INCLUDING COMPLETE WIRING DIAGRAMS, SYSTEM CALCULATIONS, SIGNED AND SEALED DOCUMENTS, AS ACCEPTED AND APPROVED BY A.H.J.
21. FA DESIGN / SYSTEM MUST HAVE AN OVERRIDE FOR COMMON AREAS LIKE AUDITORIUM, GYMNASIUM, AND CAFETERIA.
22. UPON COMPLETION OF FA AND / OR PA SCOPE, CONTACT DISD FACILITIES (COORDINATE WITH JACOBS PM TO) FOR DISD FACILITIES TO VERIFY/COMMISSION THE SYSTEM PRIOR TO THE SUBSTANTIAL COMPLETION WALK.
23. NEW FIRE ALARM AND VOICE EVACUATION SYSTEM SHALL BE DESIGNED TO SERVE THE WHOLE BUILDING. EXISITING FIRE ALARM SYSTEM TO REMAIN IN OPERATION UNTIL NEW SYSTEM IS INSTALLED TESTED AND APPROVED BY FIRE MARSHAL, AND THEN THE OLD SYSTEM AND WIRING SHALL BE REMOVED.

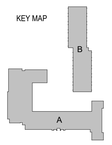
NOTES BY SYMBOL:

1	PROPOSED LOCATION FOR NEW FIRE ALARM CONTROL PANEL. PROVIDE BOX NEXT TO FA PANEL TO STORE FA SHOP DRAWINGS. MOUNT FACP AND DOCUMENT BOX AT 6 FT MAX FROM GROUND TO TOP OF PANEL. EXACT DIMENSIONS OF THESE PANELS WILL BE CONFIRMED BY DELEGATED FIRE ALARM CONTRACTOR/DESIGNER.
2	PROPOSED LOCATION FOR FIRE ALARM ANNUNCIATOR PANEL.
3	NEW FIRE ALARM SYSTEM SHALL BE PROVIDED FOR THE AREA OF WORK DENOTED WITH CROSS HATCHED REGION.
4	PROPOSED ROUTING FOR NEW FA SYSTEM FROM MAIN BUILDING TO MODULAR BUILDING. RUN NEW CONDUITS ABOVE COVER WALKWAY.
5	MOUNT FIRE ALARM SUBSCRIBER ABOVE MAIN FIRE ALARM CONTROL PANEL.
6	LOCATE FIRE ALARM POWER SUPPLY INSIDE MDF ROOM. SITE VERIFY AVAILABLE WALL SPACE ONCE NUMBER OF POWER SUPPLY IS DETERMINED BY THE DELIGATED FIRE ALARM CONTRACTOR/DESIGNER.

FIRE ALARM SYSTEM NOTES

- FIRE ALARM MAIN PANEL TO BE INSTALLED IN THE MAIN OFFICE.
- FIRE ALARM ANNUNCIATOR PANEL TO BE INSTALLED IN THE SECURED VESTIBULE.
- AS BUILT FIRE ALARM DRAWINGS TO BE STORED IN THE DOCUMENT BOX NEXT TO THE FACP.
- FA GREEN TAG AND INSTALLATION STICKER TO BE ATTACHED WITH THE FA PANEL.
- FA DESIGN / SYSTEM MUST HAVE AN OVERRIDE FOR ANY SOUND SYSTEM IN COMMON AREAS LIKE AUDITORIUM, GYMNASIUM, AND CAFETERIA.
- DUCT DETECTORS TO BE POWERED FROM THE FIRE ALARM SYSTEM NOT FROM THE AC UNIT IT IS CONNECTED TO.
- FA CONTRACTOR TO PROVIDE AES DEVICES (AES 7707P-88-ULP-M) FOR WIRELESS COMMUNICATION WITH THE LOCAL FIRE STATION.THE CONTRACTOR TO REMOVE, SECURED AND PROPERLY BOXED ALL EXISTING FIRE ALARM DEVICES (EXAMPLE, STROBES, PULL DOWNS, DETECTORS ETC.) FOR DISD PICKUP.
- THE CONTRACTOR TO INCLUDE "RADIO COMMUNICATIONS TESTING" PART OF THIS SCOPE AS REQUIRED BY THE CITY OF DALLAS.
- SPRINKLER IN ELEVATOR MACHINE ROOM MUST BE REMOVED AND ONLY A SMOKE DETECTOR BEING INSTALLED.
- ELEVATOR HOIST WAY: SPRINKLER AT TOP OF SHAFT MUST BE COMPLETELY REMOVED AND ONLY A HEAT DETECTOR TO BE INSTALLED AT THE BOTTOM OF THE SHAFT WITHIN 18 INCHES OF THE SPRINKLER HEAD.
- AN ELEVATOR CONTRACTOR BE PRESENT WHEN THE FA CONTRACTOR CONNECTS / TERMINATES THE NEW FA WIRING WITH THE ELEVATOR CONTROLLER.
- DURING THE CITY FA INSPECTION, AN ELEVATOR CONTRACTOR MUST BE PRESENT AS WELL.

KEY MAP



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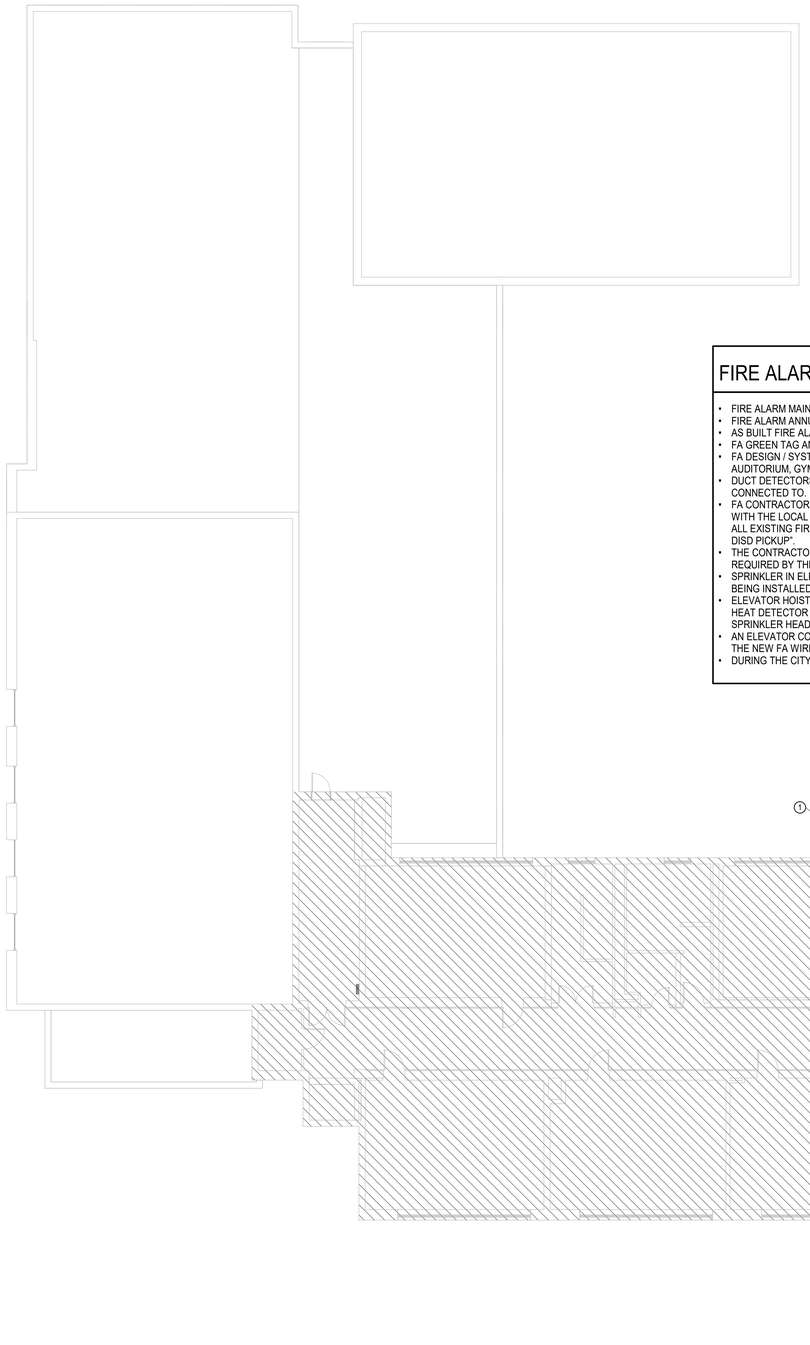
FIRE ALARM PLAN - FIRST FLOOR - OVERALL

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

FA1.10

PROJECT NO.: 2023209



FIRE ALARM SYSTEM NOTES

- FIRE ALARM MAIN PANEL TO BE INSTALLED IN THE MAIN OFFICE.
- FIRE ALARM ANNUNCIATOR PANEL TO BE INSTALLED IN THE SECURED VESTIBULE.
- AS BUILT FIRE ALARM DRAWINGS TO BE STORED IN THE DOCUMENT BOX NEXT TO THE FACP.
- FA GREEN TAG AND INSTALLATION STICKER TO BE ATTACHED WITH THE FA PANEL.
- FA DESIGN / SYSTEM MUST HAVE AN OVERRIDE FOR ANY SOUND SYSTEM IN COMMON AREAS LIKE AUDITORIUM, GYMNASIUM, AND CAFETERIA.
- DUCT DETECTORS TO BE POWERED FROM THE FIRE ALARM SYSTEM NOT FROM THE AC UNIT IT IS CONNECTED TO.
- FA CONTRACTOR TO PROVIDE AES DEVICES (AES 7707P-88-ULP-M) FOR WIRELESS COMMUNICATION WITH THE LOCAL FIRE STATION.THE CONTRACTOR TO REMOVE, SECURED AND PROPERLY BOXED ALL EXISTING FIRE ALARM DEVICES (EXAMPLE, STROBES, PULL DOWNS, DETECTORS ETC.) FOR DISD PICKUP".
- THE CONTRACTOR TO INCLUDE "RADIO COMMUNICATIONS TESTING" PART OF THIS SCOPE AS REQUIRED BY THE CITY OF DALLAS.
- SPRINKLER IN ELEVATOR MACHINE ROOM MUST BE REMOVED AND ONLY A SMOKE DETECTOR BEING INSTALLED.
- ELEVATOR HOIST WAY: SPRINKLER AT TOP OF SHAFT MUST BE COMPLETELY REMOVED AND ONLY A HEAT DETECTOR TO BE INSTALLED AT THE BOTTOM OF THE SHAFT WITHIN 18 INCHES OF THE SPRINKLER HEAD.
- AN ELEVATOR CONTRACTOR BE PRESENT WHEN THE FA CONTRACTOR CONNECTS / TERMINATES THE NEW FA WIRING WITH THE ELEVATOR CONTROLLER.
- DURING THE CITY FA INSPECTION, AN ELEVATOR CONTRACTOR MUST BE PRESENT AS WELL.

GENERAL NOTES - FIRE ALARM - DISD:

1. NEW FIRE ALARM AND VOICE EVACUATION SYSTEM SHALL BE DESIGNED TO SERVE THE WHOLE BUILDING. EXISITING FIRE ALARM SYSTEM TO REMAIN IN OPERATION UNTIL NEW SYSTEM IS INSTALLED TESTED AND APPROVED BY FIRE MARSHAL, AND THEN THE OLD SYSTEM AND WIRING SHALL BE REMOVED.
2. PROVIDE NOTIFIER NFS2-3030 WITH VOICE EVACUATION, LOCATED IN THE ADMINISTRATION AREA. COMPLETE FIRE ALARM SYSTEM AND VOICE EVACUATION SYSTEM SHALL COMPLY WITH CURRENT CODES AND REQUIREMENTS OF FIRE MARSHAL AND AHJ, SEE SPECIFICATIONS 284621.
3. ALL BUILDINGS SHALL BE CONNECTED TOGETHER THROUGH CRAWL SPACES, CABLE BASKETS, AND/OR CONDUITS AS REQUIRED TO PROVIDE CONNECTIVITY TO MAKE THE CONTRACTORS SYSTEM DESIGN FUNCTIONABLE. FIRE ALARM SYSTEM WILL INCLUDE COVERAGE OF ALL PORTABLE BUILDINGS.
4. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANY ADDITIONAL PATHWAYS, POWER SUPPLIES AND ELECTRICAL OUTLETS REQUIRED FOR POWER SUPPLIES AND EQUIPMENT THAT IS A PART OF THEIR SYSTEM DESIGN. COORDINATE WITH GENERAL CONTRACTOR FOR ALL PATHWAY AND POWER NEEDS AT NO ADDITIONAL COST TO OWNER.
5. IN AREAS ON THE DRAWING, WHERE CEILING WILL BE REMOVED. FIRE ALARM CONTRACTOR SHALL REMOVE ALL DEVICES FROM WORK AREA, AND TIE-UP/MAKE SAFE IN ORDER TO KEEP EXISTING FIRE ALARM SYSTEM OPERABLE DURING CONSTRUCTION.
6. IN AREAS WITHOUT CEILINGS, OR SUBJECT TO PHYSICAL DAMAGE, THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANY NEW CONDUIT NEEDED FOR PHYSICAL PROTECTION. COORDINATE WITH GENERAL CONTRACTOR FOR ALL CONDUIT NEEDS AT NO ADDITIONAL COST TO OWNER.
7. THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND IN COMPLIANCE WITH NFPA 72 AND MEET LOCALLY ENFORCED CODE AND ADA REQUIREMENTS.
8. THE FIRE ALARM SYSTEM SHALL FORM A COMPLETE, OPERATIVE, COORDINATED SYSTEM INCLUDING, BUT NOT LIMITED TO ALARM INITIATING DEVICES, ALARM NOTIFICATION APPLIANCES, CONTROL PANEL, AUXILIARY CONTROL DEVICES, DUCT DETECTORS, VOICE EVACUATION SYSTEM, ANNUNCIATORS, POWER SUPPLIES AND WIRING AS SPECIFIED.
9. THE NEW FIRE ALARM SYSTEM SHALL BE MULTI-MODE NETWORK CAPABLE WITH HIGH-SPEED DATA COMMUNICATIONS COMPATIBLE WITH BACNET/IP AND MODBUS/IP.
10. THE CONTRACTOR SHALL OBTAIN AND ENGAGE THE SERVICES OF A LICENSED FIRE ALARM INSTALLATION COMPANY TO DESIGN, INSTALL AND TEST THE FIRE ALARM SYSTEM.
11. THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL AUTHORITY HAVING JURISDICTION WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR ADDRESSED IN SPECIFICATIONS.
12. CROSS HATCHING INDICATES ALL AREAS ON CAMPUS THAT ARE TO GET NEW FIRE ALARM SYSTEMS.
13. PROVIDE SMOKE DETECTORS IN ELECTRICAL AND COMMUNICATION ROOMS.
14. MONITOR ALL FIRE PROTECTION SYSTEM TAMPER SWITCHES, FLOW SWITCHES OR PRESSURE SWITCHES.
15. PROVIDE DUCT SMOKE DETECTORS ON THE RETURN SIDE OF THE UNIT IF GREATER THAN 2000 CFM AND LESS THAN 15,000 CFM AND FOR UNIT WITH 15,000 CFM AND MORE, PROVIDE DUCT DETECTOR ON SUPPLY SIDE AND RETURN SIDE FOR EMERGENCY SHUTDOWN OF THE UNIT ALARM.
16. ALL DEVICES SHALL BE ADDRESSABLE. ALL SMOKE AND HEAT DETECTORS SHALL BE INTELLIGENT TYPE.
17. ACTUATION OF ANY INITIATING DEVICE SHALL CAUSE A GENERAL ALARM BOTH AUDIBLE AND VISUAL AND SHALL ALSO SEND AN AUDIBLE AND VISUAL ALARM AT THE CENTRAL STATION WHICH IN TURN SHALL NOTIFY THE FIRE DEPARTMENT.
18. PROVIDE DUCT DETECTORS WHERE REQUIRED BY NFPA, SUPPLY FROM NEAREST 120V PANEL.
19. PROVIDE PROTECTIVE COVERS FOR FIRE ALARM DEVICES LOCATED IN GYM.
20. CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENTS, INCLUDING COMPLETE WIRING DIAGRAMS, SYSTEM CALCULATIONS, SIGNED AND SEALED DOCUMENTS, AS ACCEPTED AND APPROVED BY A.H.J.
21. FA DESIGN / SYSTEM MUST HAVE AN OVERRIDE FOR COMMON AREAS LIKE AUDITORIUM, GYMNASIUM, AND CAFETERIA.
22. UPON COMPLETION OF FA AND / OR PA SCOPE, CONTACT DISD FACILITIES (COORDINATE WITH JACOBS PM TO) FOR DISD FACILITIES TO VERIFY/COMMISSION THE SYSTEM PRIOR TO THE SUBSTANTIAL COMPLETION WALK.
23. NEW FIRE ALARM AND VOICE EVACUATION SYSTEM SHALL BE DESIGNED TO SERVE THE WHOLE BUILDING. EXISITING FIRE ALARM SYSTEM TO REMAIN IN OPERATION UNTIL NEW SYSTEM IS INSTALLED TESTED AND APPROVED BY FIRE MARSHAL, AND THEN THE OLD SYSTEM AND WIRING SHALL BE REMOVED.

NOTES BY SYMBOL:

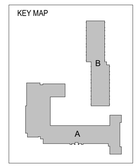
1	NEW FIRE ALARM SYSTEM SHALL BE PROVIDED FOR THE AREA OF WORK DENOTED WITH CROSS HATCHED REGION.

TRUE NORTH / PLAN NORTH

1 FIRE ALARM PLAN - SECOND FLOOR - OVERALL

SCALE: 1" = 10'-0"

KEY MAP



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STATE OF TEXAS
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LICENSED
PROFESSIONAL ENGINEER

09/18/24

DALLAS ISD BOND2020
OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

ORG 207 DISD SAN JACINTO ELEMENTARY

7900 Hume Dr, Dallas, TX 75227

FIRE ALARM PLAN - SECOND FLOOR - OVERALL

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

FA1.20

PROJECT NO.: 2023209

TELECOMMUNICATION ABBREVIATIONS, SYMBOLS, NOTES AND RESPOSIBILITY MATRIX

ABBREVIATIONS

ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AP	ACCESS POINT
AV	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
AXT	ALIEN CROSSTALK
BACNET	BUILDING AUTOMATION AND CONTROL NETWORK
BAS	BUILDING AUTOMATION SYSTEMS
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS
BICSI	BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL
CAT	CATEGORY
CATV	CABLE TV
CCTV	CLOSED-CIRCUIT TV
CM	COMMON MODE
CMP	COMMUNICATIONS PLENUM CABLE
CMR	COMMUNICATIONS RISER CABLE
COW	COMPUTER ON WHEELS
CPU	CENTRAL PROCESSING UNIT
DAS	DISTRIBUTED ANTENNA SYSTEM
DBA	A-WEIGHTED DECIBEL
DBU	DECIBEL UNIT
DM	DIFFERENTIAL MODE
DP	DEMARCATION POINT
DSP	DIGITAL SIGNAL PROCESSOR
DSX	DIGITAL SIGNAL CROSS-CONNECT
DVR	DIGITAL VIDEO RECORDER
EBC	EQUIPMENT BONDING CONDUCTOR
EF	ENTRANCE FACILITY
EIA	ELECTRONIC INDUSTRIES ALLIANCE
EMI	ELECTROMAGNETIC INTERFERENCE
EMS	ENERGY MANAGEMENT SYSTEM
EOLR	END-OF-LINE RESISTOR
EPO	EMERGENCY POWER OFF
ESD	ELECTROSTATIC DISCHARGE
ESS	ELECTRONIC SECURITY AND SAFETY
FACP	FIRE ALARM CONTROL PANEL
FDC	FIBER DISTRIBUTION CENTER (RACK or WALL MOUNTED)
FO	FIBER OPTIC
FOC	FIBER OPTIC CABLE
FTP	FOIL TWISTED-PAIR
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GUI	GRAPHICAL USER INTERFACE
HC	HORIZONTAL CROSS-CONNECT
HDMI	HIGH-DEFINITION MULTIMEDIA INTERFACE
HDTV	HIGH DEFINITION TV
HH	HANDHOLE
IBC	INTERNATIONAL BUILDING CODE
IC	INTERMEDIATE CROSS-CONNECT
ICT	INFORMATION AND COMMUNICATIONS TECHNOLOGY
ID	INTERACTIVE DISPLAY
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEMS
IP	INTERNET PROTOCOL
ISP	INSIDE PLANT
IT	INFORMATION TECHNOLOGY
KVM	KEYBOARD/VIDEO/MOUSE
LAN	LOCAL AREA NETWORK
LCD	LIQUID CRYSTAL DISPLAY
LED	LIGHT-EMITTING DIODE
LVD	LOW VOLTAGE DISCONNECT
MC	MAIN CROSS-CONNECT
MDF	MAIN DISTRIBUTION FRAME
MGB	MAIN ELECTRICAL GROUNDING BUSBAR
MM	MULTIMODE
MPP	MULTIPURPOSE PLENUM CABLE
MPR	MULTIPURPOSE RISER CABLE
NIC	NETWORK INTERFACE CARD
NIST	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
NVR	NETWORK VIDEO RECORDER
OFNP	OPTICAL FIBER NON-CONDUCTIVE PLENUM
OFNR	OPTICAL FIBER NON-CONDUCTIVE RISER
OTD	OPTICAL TIME DOMAIN REFLECTOMETER
OSP	OUTSIDE PLANT
PA	PUBLIC ADDRESS
PDU	POWER DISTRIBUTION UNIT
POE	POWER OVER ETHERNET
POS	POINT OF SALE
POTS	PLAIN OLD TELEPHONE SERVICE
PSTN	PUBLIC SWITCHED TELEPHONE NETWORK
PTP	POINT-TO-POINT
PTZ	PAN, TILT, AND ZOOM
RDP	RATE DEMARCATION POINT
REX	REQUEST TO EXIT
RMU	RACK MOUNTED UNIT
RU	RACK UNIT
SCS	STRUCTURED CABLING SYSTEM
SM	SINGLEMODE
SNR	SIGNAL-TO-NOISE RATIO
STP	SHIELDED TWISTED-PAIR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TGB	TELECOM GROUNDING BUSBAR
TMGB	TELECOM MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATION ROOM
UL	UNDERWRITERS LABORATORY
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED-PAIR
VOIP	VOICE OVER INTERNET PROTOCOL
WAP	WIRELESS ACCESS POINT
WLAN	WIRELESS LAN

AUDIO VISUAL

M	MULTIMEDIA OUTLET (TEACHING STATION)
	WALL-MOUNTED STAGE SPEAKER

NOTE: *SOME SYMBOLS MAY NOT BE USED.*

TELECOMMUNICATION

X	TYPICAL FOUR-PAIR UTP DROP LOCATION (x IDENTIFIES QUANTITY OF JACKS AND ASSOCIATED CABLING DROPS).
POS X	POS FOUR-PAIR UTP DROP LOCATION (x IDENTIFIES QUANTITY OF JACKS AND ASSOCIATED CABLING DROPS).
W X	WALL-MOUNTED FOUR-PAIR UTP DROP LOCATION (x IDENTIFIES QUANTITY OF JACKS AND ASSOCIATED CABLING DROPS). TYPICAL 48"AFF.
X	FLUSH FLOOR-MOUNTED FOUR-PAIR UTP DROP LOCATION (x IDENTIFIES QUANTITY OF JACKS AND ASSOCIATED CABLING DROPS). TYPICAL 48"AFF.
PRJ X	CEILING MOUNTED PROJECTOR FOUR-PAIR UTP DROP LOCATION (x IDENTIFIES QUANTITY OF JACKS AND ASSOCIATED CABLING DROPS). TYPICAL 48"AFF.
CAM X	POWER OVER ETHERNET (IP-BASED CAMERA)
BC X	BIO-CLOCK. TYPICAL 48"AFF.

SECURITY

CAM	EXTERIOR FIXED MULTISENSOR CAMERA
CAM	EXTERIOR FIXED 110 DEGREE CAMERA
CAM	INTERIOR FIXED 180 DEGREE CAMERA
CAM	INTERIOR FIXED 360 DEGREE CAMERA
ES	ELECTRIC DOOR STRIKE
REX	REQUEST TO EXIT DEVICE
DS	DOOR SWITCH
CR	CARD READER
DR	DOOR RELEASE
ACC	ACCESS CONTROLLER LOCATION
AI	AIPHONE INTERCOM (1-CAT6 DROP)
AI	AIPHONE CONSOLE
IDS	INTRUSION DETECTION SYSTEM PANEL
MD	CEILING MOUNTED MOTION DETECTOR
DPS	DOOR POSITION SWITCH (IDS)
S PA	PUBLIC ADDRESS SPEAKER
PA	PUBLIC ADDRESS SYSTEM CONSOLE
PA	EXTERIOR PUBLIC ADRESS HORN
	DURESS PUSHBUTTON

GENERAL CONDITIONS

1. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC. THE CONTRACTOR SHALL PROVIDE TELECOMMUNICATION AND SECURITY RACEWAYS TO INCLUDE SERVICE ENTRANCE RACEWAYS, HORIZONTAL LADDER TRAY, WIRE MESH CABLE TRAY, IN-WALL CONDUIT AND BACKBOXES, J-HOOKS, HANGERS, FACEPLATES, AND PULLSTRINGS IN COMPLIANCE WITH THE DIVISION 27 AND 28 SPECIFICATIONS.

2. SYMBOLS FOR VARIOUS ELEMENTS AND SYSTEMS ARE SHOWN ON THE DRAWINGS. SHOULD THERE BE ANY DOUBT REGARDING THE MEANING OR INTENT OF THE SYMBOLS USED, AN INTERPRETATION SHALL BE OBTAINED FROM THE RCDD.

3. THE SCALE OF EACH DRAWING IS RELATIVELY ACCURATE; ANY DIMENSIONS SHOWN ARE APPROXIMATE TO CENTERLINE FROM ASSUMED BUILDING PERIMETER. THE CONTRACTOR SHALL OBTAIN THE NECESSARY DIMENSIONS FOR ANY EXACT TAKEOFFS FROM THE ARCHITECT.

4. ONLY EXPERIENCED CRAFTSMEN KNOWLEDGEABLE IN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.

5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2020 EDITION OF THE NFPA STANDARD 70 (NATIONAL ELECTRICAL CODE). CONTRACTOR SHALL ALSO CONFORM TO ALL APPLICABLE LOCAL CODES AND AMENDMENTS.

6. ALL TELECOMMUNICATIONS RACEWAYS SHALL BE NEW AND SHALL MEET NEMA AND ANSI STANDARDS AND SHALL BEAR THE UL LABEL. TELECOMMUNICATION CABLING CANNOT SHARE THE SAME CONDUIT OR PATHWAY AS POWER, THEREFORE ALL CONDUITS ARE TO BE SEPARATE AND ANY OTHER PATHWAYS SHALL HAVE A BARRIER BETWEEN THE CABLES.

7. CONDUIT RUNS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES AT EVERY TWO 90 DEGREE BENDS. A THIRD BEND IS ACCEPTABLE WHERE ENTIRE RUNS ARE LESS THAT 33 FEET, CONDUITS SIZE IS INCREASED, OR THE THIRD BEND IS LOCATED WITHIN 12" OF THE FEED END.

8. CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE SUPPORTS NECESSARY FOR THE RACEWAY SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO BLOCKING FOR WALL MOUNTED TELEVISIONS. CONTRACTOR SHALL REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SIZES AND QUANTITIES OF ALL SUPPORTING MEANS.

9. PENETRATIONS OF WALLS, FLOORS, ROOFS, AND STRUCTURAL BEAMS FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF WORK. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAY SO AS TO MAINTAIN THE STRUCTURAL, WATER PROOF, AND FIRE PROOF INTEGRITY OF THE SYSTEM PENETRATED.

10. PROVIDE AND INSTALL PATHWAYS IN A MANNER THAT WILL NOT DAMAGE THE CABLING FROM PHYSICAL DAMAGE. INSTALL CONDUITS WITH LONG RADIUS BENDS WITH NYLON BUSHINGS AND PROPER BONDING.

GENERAL NOTES

1. PRIOR TO INSTALLATION OF SUBSURFACE RACEWAYS IDENTIFY AND MARK ANY EXISTING UTILITIES TO AVOID DAMAGE. UNDERGROUND TELECOMMUNICATIONS RACEWAYS SHOULD MAINTAIN A MINIMUM OF 6" FROM OTHER UTILIZES SUCH AS ELECTRIC.

2. PROVIDE AND INSTALL WALL MOUNTED 3/4" TYPE AC FIRE RATED PLYWOOD IN EACH MDF/IDF INDICATED IN TELECOMMUNICATIONS ENLARGED PLANS. FIRE RATED STAMP SHALL BE VISIBLE FOR INSPECTION. FIRE PAINTED PLYWOOD IS NOT ALLOWED PER 2018 IBC.

3. ALL HORIZONTAL PATHWAYS THAT PENETRATE FIRE-RATED BARRIERS SHALL BE FIRESTOPPED IN ACCORDANCE WITH APPLICABLE CODES.

4. PROVIDE AND INSTALL CABLE TRAY WITH A MINIMUM OF 12" CLEARANCE ABOVE AND ON ONE SIDE OF THE TRAY FOR ACCESS.

5. PROVIDE AND INSTALL CONDUIT FOR CABLING DISTRIBUTION SPANNING ALL HARD CEILING GREATER THAN 5' IN LENGTH AND SOFFITS TO ACCESSIBLE CEILING (WHERE NECESSARY). ALL TELECOMMUNICATIONS CONDUITS SHALL BE INSTALLED WITH NYLON PULLSTRING.

6. AT ALL IN-WALL DATA/AV DROPS LOCATIONS PROVIDE AND INSTALL BACKBOX AND ROUTE 1-1/4" CONDUIT FROM EACH WALL DATA OUTLET TO ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED. STUB OUT CONDUIT A MINIMUM OF 6" AND PROVIDE AND INSTALL NYLON BUSHINGS AT ALL CONDUIT STUBOUTS ABOVE THE CEILING.

7. PROVIDE AND INSTALL J-HOOKS FROM EACH ABOVE CEILING STUBOUT TO CABLE TRAY. J-HOOKS SHALL BE SPACED AT A MAXIMUM OF 4'. INSTALL J-HOOKS AT A MINIMUM OF 15" ABOVE CEILING CHANNEL T-BARS. HOOKS SHALL BE INDEPENDENTLY SUPPORTED.

8. ALL PATHWAYS INSTALLED FOR COMMUNICATIONS SHALL BE BONDED TO THE NEAREST TELECOMMUNICATIONS BUSBAR. BUSBARS SHALL BE PREDRILLED WITH STANDARDS NEMA BOLT HOLE SIZING AND SPACING FOR THE BONDING CONDUCTOR CONNECTIONS.

9. PROVIDE PROPER TELECOMMUNICATIONS BONDING AND GROUNDING TO ALL TELECOMMUNICATION ELEMENTS PER TIA-607-C.

10. CATEGORY 6 & 6A UTP HORIZONTAL CABLING MUST NOT EXCEED 295' IN LENGTH. ALL CABLING SHALL BE RATED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.

11. FIBER OPTIC BACKBONE CABLING SHALL BE INSTALLED IN J-HOOK OR WITHIN THE CABLE TRAY RUN.

12. CABLE MUST NOT BE FASTENED TO ELECTRICAL CONDUITS, MECHANICAL, DUCTWORK/PIPING, SPRINKLER PIPES, OR ROUTED TO OBSTRUCT ACCESS TO HATCHES , DOORS, UTILITY ACCESS PANELS, OR SERVICE WORK AREAS. CABLES SHALL NOT BE ROUTED THROUGH FIRE RATED DOORS, VENTILATION SHAFTS, GRATES, OR PARALLEL WITH LINE VOLTAGE ELECTRICAL CONDUCTORS. CABLES SHALL NOT BE RUN LOOSE ON CEILING GRID OR ON CEILING TILES.

13. CABLES ARE TO BE RUN IN BUNDLES OF 24 MAXIMUM IN CABLE TRAY OR HOOKS ABOVE CEILINGS. CABLING SHALL BE LOOSELY BUNDLED WITH CABLE VELCRO HOOK TIES SPACED AT 24" CENTERS. CABLE TIES SHALL NOT BE USED AND SHALL NOTE BE USED TO SUPPORT CABLES.

14. EACH CABLE RUN SHALL INCLUDE A FIVE-FOOT SERVICE LOOP WITH BELCRO HOOK TIES LOCATED ABOVE MDF/IDF RACK(S) AND A THREE-FOOT SERVICE LOOP AT THE INFORMATION OUTLET.

15. NO CABLES SPLICES ARE ALLOWED.

WIRELESS ACCESS POINTS

EXTERIOR WALL - MOUNTED	EXTERIOR SLEEVING REQUIREMENTS: • PROVIDE SLEEVE THROUGH EXTERIOR WALL AT A HEIGHT NOT GREATER THAN 14 FEET AND IN LINE WITH OTHER DEVICES SUCH AS SECURITY CAMERAS. • ROUTE SLEEVE WITHIN 1ST FLOOR CEILING INTO ADJACENT LOWER CEILING TOWARDS CABLE PATHWAY/CABLE TRAY. • REQUIRE SLEEVE TO BE TRIMMED AT FACE OF MASONRY (MAXIMUM 1/4" PROTRUSION). • FIRE STOP ON BOTH ENDS AND SLOPE AT 1:10 TO THE OUTSIDE TO PREVENT MOISTURE INFILTRATION. • WAP INSTALLATION DOES NOT REQUIRE PREDRILLED OR PRECAST ANCHOR SUPPORT.
INTERIOR WALL - MOUNTED	WAP'S MAY BE MOUNTED ON SHEETROCK WALLS. EXCEPTION: IN GYMNASIUMS, MOUNT WAP'S ON MASONRY OR CONCRETE WALLS. MOUNTING ON SHEETROCK WALLS IN GYMNASIUMS REQUIRES ADDITIONAL SUPPORT AND PRIOR APPROVAL FROM IT-INFRASTRUCTURE. INTERIOR SLEEVING REQUIREMENTS: • PROVIDE SLEEVE/CONDUIT AND BACKBOX AT HEIGHT NOT GREATER THAN 14 FEET AND IN LINE WITH OTHER DEVICES SUCH AS FIRE/CLOCKS. • ROUTE SLEEVE/CONDUIT INTO ADJACENT LOWER CEILING TOWARDS CABLE PATHWAY/CABLE TRAY. • WAP INSTALLATION DOES NOT REQUIRE PREDRILLED OR PRECAST ANCHOR SUPPORT. • CLASSROOMS ABOVE 14 FEET A.F.F.: ON WALL ADJACENT TO CABLE TRAY AT 12 FEET. PROVIDE BACK BOX AND CONDUIT. • GYMNASIUM AND AUDITORIUMS ABOVE 14 FEET A.F.F.: ON WALL AT 12 FEET. PROVIDE BACK BOX AND CONDUIT.
CEILING - MOUNTED	STANDARD LAY-IN CEILINGS (LESS THAN 14 FEET A.F.F.): MOUNT AT CENTER OF CLASSROOM OR AS REQUIRED TO PROVIDE APPROPRIATE COVERAGE IN OTHER AREAS. LOCATE AT MAIN TEE FOR SUPPORT. COORDINATE LOCATIONS AT OFFICE AREAS WITH DALLAS ISD-IT-INFRASTRUCTURE. HARD CEILING OR NON-STANDARD CEILING TILE (EX: 4'X4'): ARCHITECT TO COORDINATE LOCATIONS WITH IT-INFRASTRUCTURE. OPEN CEILING: CABLING TO BE IN CONTINUOUS CONDUIT AND TERMINATE INTO A DOUBLE GANG BACKBOX.

RESPONSIBILITY MATRIX

Updated June 18 2021

Dallas ISD Organization	Dallas ISD Dept/Div/ Group	Building System	Description: Equipment & Devices	Equipment & Devices	Pathways, Cable Trays, Conduit, Backboxes, et., al	Power
				Provided and installed by	Provided and installed by	Provided and installed by
M&O	Grounds	Marquee Sign	Marquee Sign	CS-GC	CS-GC	CS-GC
M&O	EMS/controls	BAS	JACE: Equipment, Cabling, Devices	CS-GC	CS-GC	CS-GC
M&O	Elevators	Elevators	Wireless Emergency Call-out	CS-GC	CS-GC	CS-GC
M&O	Elevators	Elevators	Sump High Float Local Alarm	CS-GC	CS-GC	CS-GC
M&O	Alarms	Fire (Sprinkler) Surpression	Flow Detection	CS-GC	CS-GC	CS-GC
M&O	Alarms	Fire Alarm	Fire Alarm Wireless Radio (AEC) Call-out, Panels, Cabling, Devices	CS-GC	CS-GC	CS-GC
IT	Infrastructure	E-Rate	Technology Infrastructure	IT- Infrastructure PM	CS-GC	CS-GC
IT	Infrastructure	Fiber Optic	Fiber Optic Cable from Street to MDF UPN	IT- Fiber Contractor	CS-GC (including civil pads, vaults	N/A
IT	Infrastructure	Fiber Optic	Fiber Optic Cabling - Dark Fiber	IT- Fiber Contractor	CS-GC (including civil pads, vaults	N/A
IT	Infrastructure	Network	Fiber Optic Backbone Cabling, MDF to IDFs		CS-GC	N/A
IT	Infrastructure	Infrastructure	Fiber Optic Patch Panels, Jumpers, et al	IT- Cabling Contractor	N/A	N/A
IT/Police	CSS EM	Access Control	MDF & IDF Room Security	CS- Security Contractor	N/A	N/A
IT	Infrastructure	Network	MDF & IDF High Heat Alarm Signal	CS-GC	CS-GC	CS-GC
IT/M&O	Infrastructure Electrical	Network	MDF/IDF: Lighting Protection System, and Event Alert	CS-GC	CS-GC	CS-GC
IT	Infrastructure	Network	Portables	CS-GC	CS-GC	N/A
IT	Infrastructure	Network	UPS	IT-Network Equipment Contractor	CS-GC	CS-GC
IT	Infrastructure	Network	Wireless Access Points (WAPs)	IT-Network Equipment Contractor	CS-GC	N/A
IT	Infrastructure	Network	Cabling	IT Cabling Contractor	CS-GC	N/A
IT	Infrastructure	Network	Patch Panels	IT Cabling Contractor	N/A	N/A
IT	Infrastructure	Network	Racks (Floor Mounted)	CS-GC	N/A	CS-GC
IT	Infrastructure	Network	Racks (Wall Mounted)	CS-GC	N/A	CS-GC
IT	Infrastructure	Network	Patch Cables	IT-Technology Contractor	N/A	N/A
IT	Infrastructure	Network	Biometric Clocks (Bioclocks)	Cabling by IT-Cabling Contractor. Device provided by CS-GC purchased from IT- Biometric Clock Vendor	CS-GC	POE by IT-Cabling Contractor Does not require line voltage power.
IT	Infrastructure	Network	POE Switch Network	IT- Network Equipment Contractor	N/A	N/A
M&O	Sound Stage	Voice Communications	PA IP Integrated Electronic Communications Network	CS-GC	CS-GC	CS-GC
M&O	Sound Stage	Network	Master Clocks	CS-GC	CS-GC	CS-GC
M&O	Sound Stage	Voice Communications	VoIP	CS-GC	CS-GC	CS-GC
M&O	Sound Stage	Voice Communications	Sound System	CS-GC	CS-GC	CS-GC
M&O	Sound Stage	Voice Communications	POE Switches PA/Sound	CS-GC	N/A	CS-GC

NOT ALL ITEMS ON THIS RESPONSIBILITY MATRIX ARE APPLICABLE TO THE SCOPE OF WORK FOR THIS PROJECT. IT ENCOMPASSES ALL OF THE DIVISION 1 REQUIREMENTS FOR TECHNOLOGY AND LOW-VOLTAGE RELATED SYSTEMS FROM THE DISD TECHNICAL DESIGN GUIDELINES. REFER TO THE FLOOR PLANS AND DETAILS FOR RELATED SCOPE INFORMATION.

RESPONSIBILITY MATRIX — CONTINUED

Dallas ISD Organization	Dallas ISD Dept/Div/ Group	Building System	Description: Equipment & Devices	Equipment & Devices	Pathways, Cable Trays, Conduit, Backboxes, et., al	Power
				Provided and installed by	Provided and installed by	Provided and installed by
M&O	Sound Stage	Voice Communications	Patch Cables PA/Sound	CS-GC	N/A	N/A
M&O	Sound Stage	Voice Communications	Patch Panels Sound System	CS-GC	N/A	N/A
IT	Audio-Visual	Distributed Audio-Video Communications Systems	Interactive Displays	IT A/V Vendor	CS-GC	CS-GC
IT/AES	Audio-Visual Performing Arts	Distributed Audio-Video Communications Systems	Auditorium: Sound Systems	CS-GC puchased from IT A/V Vendor	CS-GC	CS-GC
IT/AES	Audio-Visual Performing Arts	Distributed Audio-Video Communications Systems	Auditorium: Video Projecttor and Screen	CS-GC puchased from IT A/V Vendor	CS-GC	CS-GC
IT	Audio-Visual	Distributed Audio-Video Communications Systems	Multi-Purpose Rooms: Sound Systems	CS-GC	CS-GC	CS-GC
IT	Audio-Visual	Audio-Visual	Cafetoriums: Sound System	CS-GC	CS-GC	CS-GC
IT	Audio-Visual	Audio-Visual	Cafetoriums: Video Projector and Screen	CS-GC	CS-GC	CS-GC
M&O	Sound Stage	Distributed Audio-Video Communications Systems	Gymnasium: Sound System	CS-GC	CS-GC	
IT	Infrastructure	Food and Child Nutrition Services	Cafeteria Point of Sale (POS)	FCNS Contractor	CS-GC	CS-GC
IT	Infrastructure	Food and Child Nutrition Services	Cafeteria Digital Displays	Display: CS-GC Cabling: IT-Technology Contractor	CS-GC	CS-GC
IT/Police	CSS/EM	Network	MDF & IDF High Heat Alarm Signal	CSS-Security Contractor	N/A	N/A
IT/Police	CSS/EM	Network	MDF/IDF: Lighting Protection System, and Event Alert	CSS-Security Contractor	N/A	CS-GC
M&O	Alarms	Intrusion Dectction System	Intrusion Wireless Call-out, Panels, Keyboards, Cabling, Devices	CS-GC	CS-GC	CS-GC
IT/Police	CSS/EM	Storm Shelter Operations	Control Room: Panels, monitoring and operational controls, Devices and Signage	CS-GC	CS-GC	CS-GC
IT/Police M&F	CSS/EM Electrical	UPS (non-network)	Storm Shelter Power and Monitoring: Generator or Battery	CS-GC	CS-GC	CS-GC
IT/Police	CSS/EM	Access Control	See "Access Control" Div 28	CSS-Security	CS-GC	CS-GC
IT/Police	CSS/EM	Access Control	Card Access/CCTV Headend	CSS-Security Contractor	N/A	N/A
IT/Police	CSS/EM	Access Control	Control Panels	CSS-Security Contractor	N/A	CS-GC
IT/Police	CSS/EM	Access Control	Card Readers	CSS-Security Contractor	CS-GC	N/A
IT/Police	CSS/EM	Access Control	Door Contacts	CSS-Security Contractor	CS-GC	N/A
IT/Police	CSS/EM	Access Control	Electrified Door Hardware	CS-GC	CS-GC	N/A
IT/Police	CSS/EM	Access Control	Electrified Door Hardware Power Supplies	CS-GC	CS-GC	CS-GC
IT/Police	CSS/EM	Access Control	IP Intercoms Master	CSS-Security Contractor	CS-GC	N/A
IT/Police	CSS/EM	Security: Electronic Surveillance	Cameras: Exterior	CSS-Security Contractor	CS-GC	N/A
IT/Police	CSS/EM	Security: Electronic Surveillance	Cameras: Interior	CSS-Security Contractor	CS-GC	N/A
IT/SPED	CSS	Safety & Security	SPED	CSS-	CS-GC	CS-GC
IT/Police	CSS/EM	Security: Electronic	Cabling: Switch	CSS-	CS-GC	CS-GC
IT/Police	CSS/EM	Security: Electronic	Storage Servers	CSS-	N/A	CS-GC

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09/18/24

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TECHNOLOGY COVER

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

T001

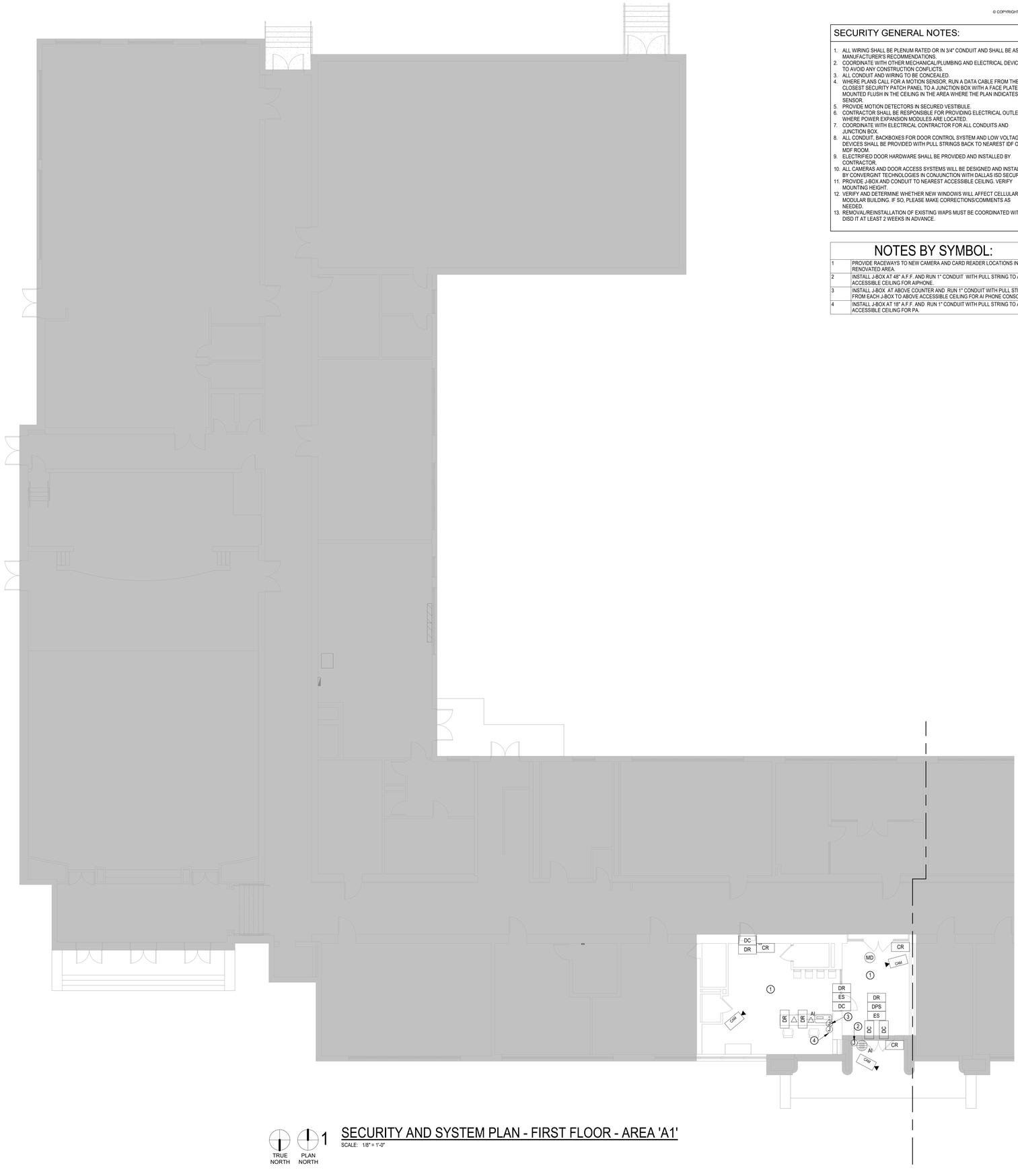
PROJECT NO.: 2023209

SECURITY GENERAL NOTES:

1. ALL WIRING SHALL BE PLENUM RATED OR IN 3/4" CONDUIT AND SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
2. COORDINATE WITH OTHER MECHANICAL/PLUMBING AND ELECTRICAL DEVICES TO AVOID ANY CONSTRUCTION CONFLICTS.
3. ALL CONDUIT AND WIRING TO BE CONCEALED.
4. WHERE PLANS CALL FOR A MOTION SENSOR, RUN A DATA CABLE FROM THE CLOSEST SECURITY PATCH PANEL TO A JUNCTION BOX WITH A FACE PLATE MOUNTED FLUSH IN THE CEILING IN THE AREA WHERE THE PLAN INDICATES THE SENSOR.
5. PROVIDE MOTION DETECTORS IN SECURED VESTIBULE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ELECTRICAL OUTLETS WHERE POWER EXPANSION MODULES ARE LOCATED.
7. COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL CONDUITS AND JUNCTION BOX.
8. ALL CONDUIT, BACKBOXES FOR DOOR CONTROL SYSTEM AND LOW VOLTAGE DEVICES SHALL BE PROVIDED WITH PULL STRINGS BACK TO NEAREST IDF OR MDF ROOM.
9. ELECTRIFIED DOOR HARDWARE SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.
10. ALL CAMERAS AND DOOR ACCESS SYSTEMS WILL BE DESIGNED AND INSTALLED BY CONVERGINT TECHNOLOGIES IN CONJUNCTION WITH DALLAS ISD SECURITY.
11. PROVIDE J-BOX AND CONDUIT TO NEAREST ACCESSIBLE CEILING. VERIFY MOUNTING HEIGHT.
12. VERIFY AND DETERMINE WHETHER NEW WINDOWS WILL AFFECT CELLULAR IN MODULAR BUILDING. IF SO, PLEASE MAKE CORRECTIONS/COMMENTS AS NEEDED.
13. REMOVAL/REINSTALLATION OF EXISTING WAPS MUST BE COORDINATED WITH DISD IT AT LEAST 2 WEEKS IN ADVANCE.

NOTES BY SYMBOL:

1	PROVIDE RACEWAYS TO NEW CAMERA AND CARD READER LOCATIONS INSIDE RENOVATED AREA
2	INSTALL J-BOX AT 48" A.F.F. AND RUN 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR AIPHONE.
3	INSTALL J-BOX AT ABOVE COUNTER AND RUN 1" CONDUIT WITH PULL STRING FROM EACH J-BOX TO ABOVE ACCESSIBLE CEILING FOR AI PHONE CONSOLE.
4	INSTALL J-BOX AT 18" A.F.F. AND RUN 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR PA.

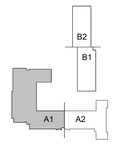


TRUE NORTH / PLAN NORTH

1 SECURITY AND SYSTEM PLAN - FIRST FLOOR - AREA 'A1'

SCALE: 1/8" = 1'-0"

KEY MAP



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PARTIAL SECURITY AND SYSTEMS PLAN FIRST FLOOR AREA 'A1'

DRAWING RECORD

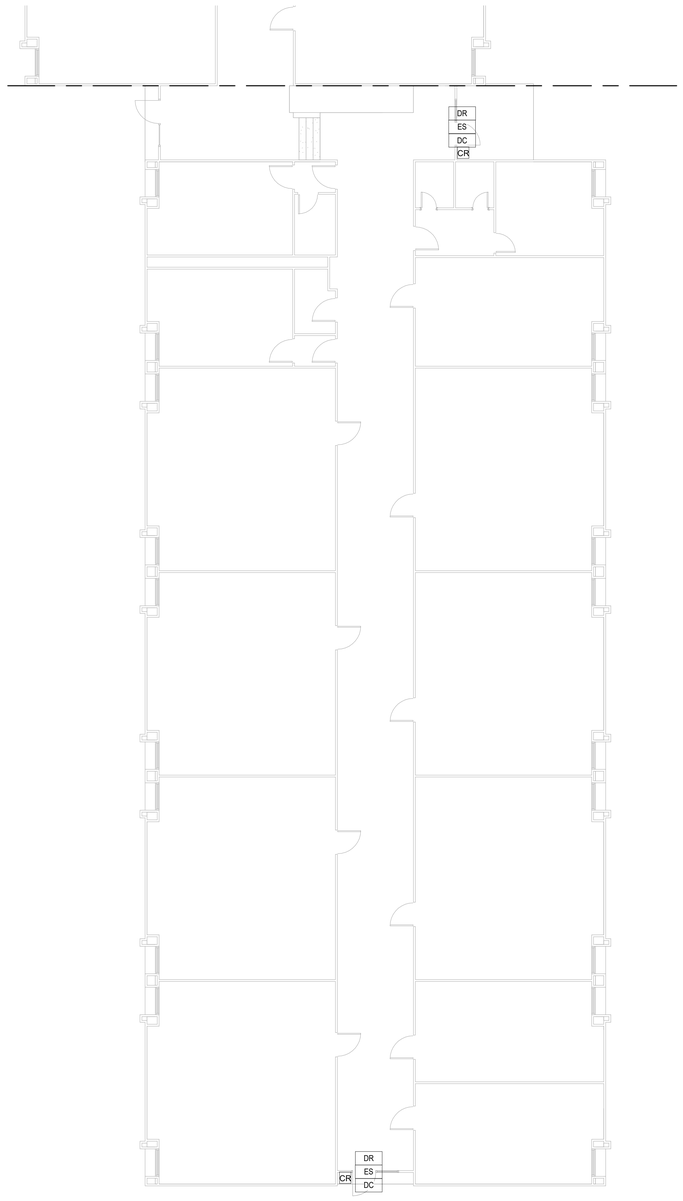
DATE	DESCRIPTION
09/18/24	BID SET

TS1.11

PROJECT NO.: 2023209

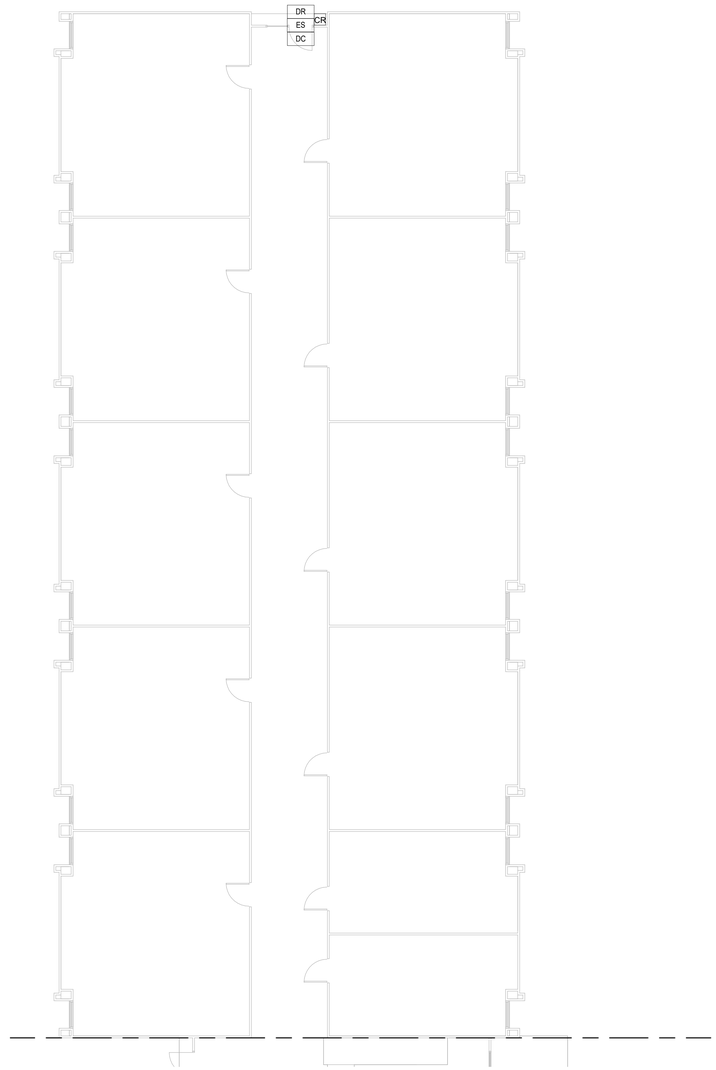
SECURITY GENERAL NOTES:

1. ALL WIRING SHALL BE PLENUM RATED OR IN 3/4" CONDUIT AND SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
2. COORDINATE WITH OTHER MECHANICAL/PLUMBING AND ELECTRICAL DEVICES TO AVOID ANY CONSTRUCTION CONFLICTS.
3. ALL CONDUIT AND WIRING TO BE CONCEALED.
4. WHERE PLANS CALL FOR A MOTION SENSOR, RUN A DATA CABLE FROM THE CLOSEST SECURITY PATCH PANEL TO A JUNCTION BOX WITH A FACE PLATE MOUNTED FLUSH IN THE CEILING IN THE AREA WHERE THE PLAN INDICATES THE SENSOR.
5. PROVIDE MOTION DETECTORS IN SECURED VESTIBULE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ELECTRICAL OUTLETS WHERE POWER EXPANSION MODULES ARE LOCATED.
7. COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL CONDUITS AND JUNCTION BOX.
8. ALL CONDUIT, BACKBOXES FOR DOOR CONTROL SYSTEM AND LOW VOLTAGE DEVICES SHALL BE PROVIDED WITH PULL STRINGS BACK TO NEAREST IDF OR MDF ROOM.
9. ELECTRIFIED DOOR HARDWARE SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.
10. ALL CAMERAS AND DOOR ACCESS SYSTEMS WILL BE DESIGNED AND INSTALLED BY CONVERGINT TECHNOLOGIES IN CONJUNCTION WITH DALLAS ISD SECURITY.
11. PROVIDE J-BOX AND CONDUIT TO NEAREST ACCESSIBLE CEILING. VERIFY MOUNTING HEIGHT.
12. VERIFY AND DETERMINE WHETHER NEW WINDOWS WILL AFFECT CELLULAR IN MODULAR BUILDING. IF SO, PLEASE MAKE CORRECTIONS/COMMENTS AS NEEDED.
13. REMOVAL/REINSTALLATION OF EXISTING WAPS MUST BE COORDINATED WITH DISD IT AT LEAST 2 WEEKS IN ADVANCE.



TRUE NORTH PLAN NORTH

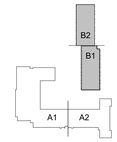
1 SECURITY AND SYSTEM PLAN - FIRST FLOOR - AREA 'B1'
SCALE: 1/8" = 1'-0"



TRUE NORTH PLAN NORTH

2 SECURITY AND SYSTEM PLAN - FIRST FLOOR - AREA 'B2'
SCALE: 1/8" = 1'-0"

KEY MAP



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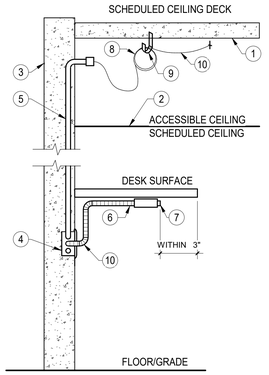
PARTIAL SECURITY AND SYSTEMS PLAN FIRST FLOOR AREA 'B1' AND 'B2'

DRAWING RECORD

DATE	DESCRIPTION
09/18/24	BID SET

TS2.13

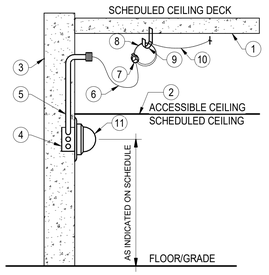
PROJECT NO.: 2023209



KEYED NOTES

1. CEILING DECK AS SCHEDULED (BY OTHERS)
2. LAY IN CEILING AS SCHEDULED (BY OTHERS).
3. SCHEDULED WALL (BY OTHERS)
4. SINGLE GANG BACK BOX WITH SINGLE GANG METAL COVER WITH 3/4" D-HOLE (BY DIV. 26).
5. 3/4-INCH CONDUIT FROM SINGLE GANG BOX WITH 200 LBS. PULLS STRING AND NYLON BUSHINGS STUBBED TO ACCESSIBLE CEILING (BY DIV. 26).
6. SECURITY CABLE(S) AS SPECIFIED SHALL BE ENCASED IN FLEXIBLE CONDUIT. CABLE(S) SHALL BE NEATLY SECURED TO DESK WITH C-CLAMPS. NO EXPOSED WIRES AND/OR SPLICE CONNECTORS (BY DIV 28).
7. DOOR RELEASE BUTTON AS SPECIFIED. BUTTON SHALL BE NEATLY SECURED TO DESK WITH SCREWS CONTRACTOR SHALL COORDINATE EXACT LEFT/RIGHT PLACEMENT UNDER DESK WITH OWNER, PRIOR TO INSTALL (BY DIV. 28).
8. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV. 28).
9. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV. 28).
10. SECURITY CABLE AS SPECIFIED ROUTED TO NEAREST MDF/IDF (BY DIV. 28).

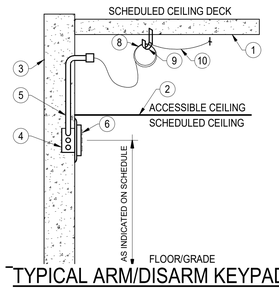
8 TYPICAL UNDER DESK DOOR RELEASE BUTTON
NOT TO SCALE



KEYED NOTES

1. CEILING DECK AS SCHEDULED (BY OTHERS)
2. LAY IN CEILING AS SCHEDULED (BY OTHERS).
3. SCHEDULED WALL (BY OTHERS)
4. 4 1/16" X 4 1/16" X 2 1/8" RECESSED DOUBLE GANG BOX WITH DUAL GANG MUD RING (BY DIV 26).
5. 1" CONDUIT FROM DOUBLE GANG BACK BOX TO ABOVE ACCESSIBLE CEILING WITH 200 LBS. PULL STRING AND NYLON BUSHINGS (BY DIV. 26).
6. PATCH CABLE AS SPECIFIED (BY DIV. 27).
7. DATA JACK ABOVE ACCESSIBLE CEILING (BY DIV. 27).
8. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV. 27).
9. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV. 27).
10. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV. 27).
11. INTERIOR WALL MOUNTED SURVEILLANCE CAMERA AS SPECIFIED (BY DIV 26).

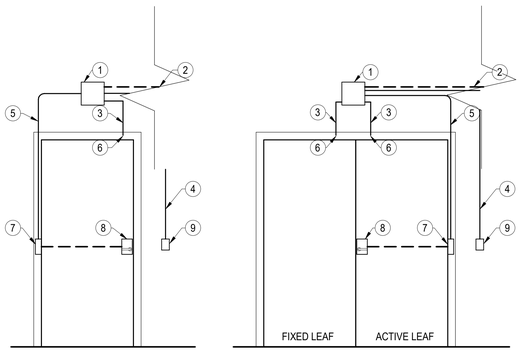
7 TYPICAL INTERIOR WALL MOUNTED SURVEILLANCE CAMERA
NOT TO SCALE



KEYED NOTES

1. CEILING DECK AS SCHEDULED (BY OTHERS)
2. LAY IN CEILING AS SCHEDULED (BY OTHERS).
3. SCHEDULED WALL (BY OTHERS)
4. 4 1/16" X 4 1/16" X 2 1/8" DOUBLE GANG BOX WITH DUAL GANG MUD RING (BY DIV 26).
5. 3/4" CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS. PULL STRING AND NYLON BUSHINGS STUBBED TO ACCESSIBLE CEILING (BY DIV. 26).
6. ARM/DISARM KEYPAD AS SPECIFIED (BY DIV. 28).
8. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV. 28).
9. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV. 28).
10. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV. 28).

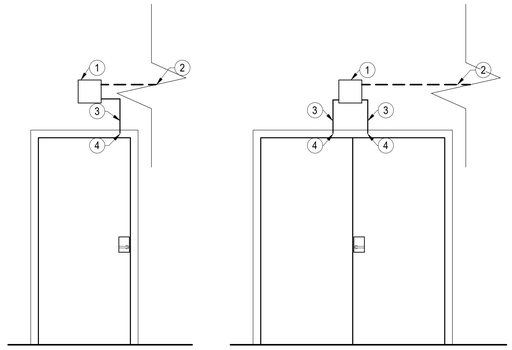
6 TYPICAL ARM/DISARM KEYPAD
NOT TO SCALE



KEYED NOTES

1. (1) 12" WIDE X 12" HIGH X 8" DEEP JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR (BY DIV 26)
2. SECURITY CABLE(S) AS SPECIFIED FROM NEAREST MDF/IDF TO 12" WIDE X 12" HIGH X 8" DEEP JUNCTION BOX INDIVIDUAL SECURITY DEVICE CABLES SHALL BE ROUTED FROM JUNCTION BOX TO EACH SECURITY DEVICE AS INDICATED (BY DIV 28)
3. (1) 1/2" CONDUIT 12" WIDE X 12" HIGH X 8" DEEP JUNCTION BOX TO HEAD DOOR FRAME FOR CONCEALED DOOR POSITION SWITCH. STUB CONDUIT INTO HEAD OF DOOR FRAME 6" FROM THE STRIKE SIDE OF THE DOOR. PROVIDE A 3" BLOCK OUT FOR GROUTED DOORS (BY DIV 26)
4. (1) 3/4" CONDUIT FROM 12" WIDE X 12" HIGH X 8" DEEP JUNCTION BOX TO RECESSED DOUBLE GANG BOX WITH A SINGLE GANG PLASTER RING FOR CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 26).
5. (1) 3/4" CONDUIT FROM 12" WIDE X 12" HIGH X 8" DEEP JUNCTION BOX DOWN DOOR FRAME FOR POWER TRANSFER HINGE (BY DIV. 26).
6. CONCEALED DOOR POSITION SWITCH (BY DIV. 28).
7. (1) POWER TRANSFER HINGE (BY DIV. 8).
8. (1) ELECTRIFIED LOCKSET ON SECURE SIDE OF DOOR (BY DIV. 8).
9. (1) CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 28).

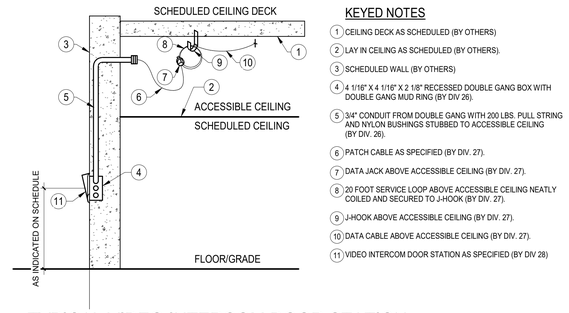
5 TYPICAL ACCESS CONTROLLED DOOR
NOT TO SCALE



KEYED NOTES

1. (1) 6" WIDE X 6" HIGH X 6" DEEP JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR (BY DIV 26)
2. SECURITY CABLE(S) AS SPECIFIED (BY DIV 28)
3. (1) 1/2" CONDUIT 6" WIDE X 6" HIGH X 6" DEEP JUNCTION BOX TO HEAD DOOR FRAME FOR CONCEALED DOOR POSITION SWITCH. STUB CONDUIT INTO HEAD OF DOOR FRAME 6" FROM THE STRIKE SIDE OF THE DOOR. PROVIDE A 3" BLOCK OUT FOR GROUTED DOORS (BY DIV 26)
4. CONCEALED DOOR POSITION SWITCH (BY DIV. 28).

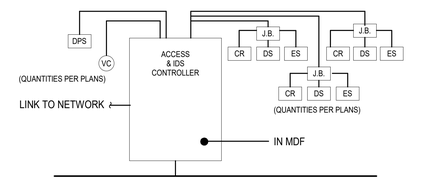
4 TYPICAL RECESSED DOOR POSITION SWITCHES
NOT TO SCALE



KEYED NOTES

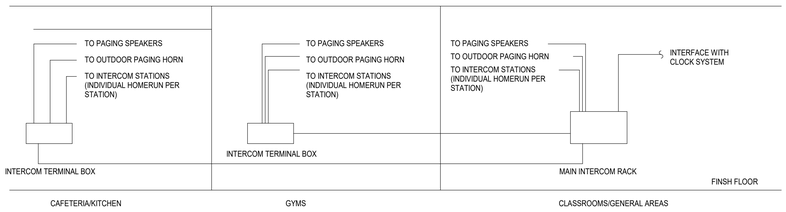
1. CEILING DECK AS SCHEDULED (BY OTHERS)
2. LAY IN CEILING AS SCHEDULED (BY OTHERS).
3. SCHEDULED WALL (BY OTHERS)
4. 4 1/16" X 4 1/16" X 2 1/8" RECESSED DOUBLE GANG BOX WITH DOUBLE GANG MUD RING (BY DIV 26).
5. 3/4" CONDUIT FROM DOUBLE GANG WITH 200 LBS. PULL STRING AND NYLON BUSHINGS STUBBED TO ACCESSIBLE CEILING (BY DIV. 26).
6. PATCH CABLE AS SPECIFIED (BY DIV. 27).
7. DATA JACK ABOVE ACCESSIBLE CEILING (BY DIV. 27).
8. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV. 27).
9. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV. 27).
10. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV. 27).
11. VIDEO INTERCOM DOOR STATION AS SPECIFIED (BY DIV 28)

3 TYPICAL VIDEO INTERCOM DOOR STATION
NOT TO SCALE



NOTE: REFER TO PLANS FOR ACCESS CONTROL DEVICE QUANTITY AND PLACEMENT.

2 ACCESS & IDS CONTROLLER
NOT TO SCALE



1 INTERCOM RISER DIAGRAM
NOT TO SCALE

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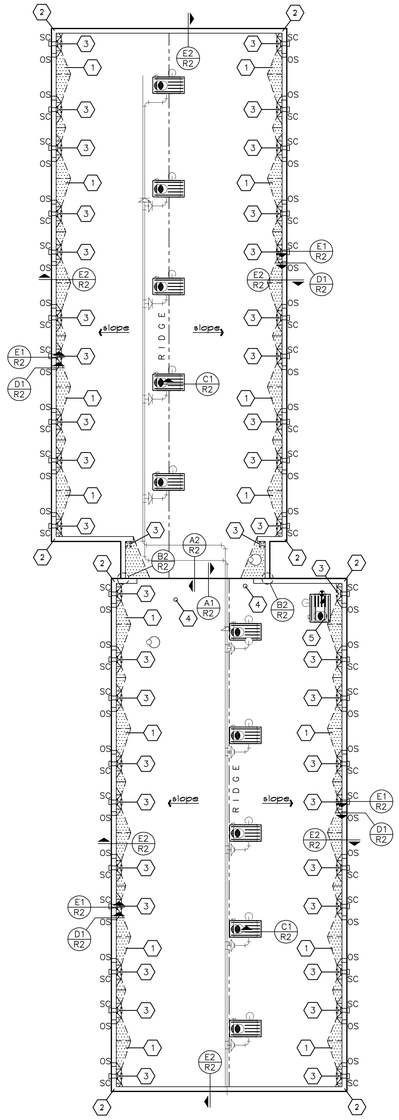

TRUE NORTH
PLAN NORTH

1 ROOF PLAN
Scale: 1/16" = 1' - 0"

ROOF SYSTEM SCHEDULE

ALL AREAS (UNLESS OTHERWISE NOTED)

- ROOF COATING AS SPECIFIED
- SPRAYED POLYURETHANE FOAM
- OVER SCARIFIED EXISTING POLYURETHANE FOAM

NOTES TO CONTRACTOR and HABITUAL PUNCH LIST ITEMS

1 – FORM CRICKETS ON THE HIGH SIDE OF ALL WALLS, CURBS, OR OTHER OBSTRUCTIONS 24" WIDE OR GREATER TO DIVERT STORM WATER DRAINAGE TO DISCHARGE AREAS (I.E. ROOF DRAINS, SCUPPERS, GUTTERS ETC.) MINIMUM 1/4" PER FOOT NET SLOPE REQUIRED.

2 – VERIFY NUMBER AND LOCATIONS OF ALL ROOF TOP EQUIPMENT AND PENETRATIONS WITH MEP DRAWINGS. FINAL LOCATIONS TO BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, AND ROOFING.

3 – EACH ROOF PENETRATION TO BE FLASHED INDEPENDENTLY FROM EACH OTHER (NOT GANGED). PENETRATIONS THRU BASE FLASHING AT SIDES OF CURBS OR WALLS ARE NOT PERMITTED.

4 – PROVIDE 18" MINIMUM HORIZONTAL FLASHING CLEARANCE ON ALL SIDES OF EACH ROOF PENETRATION AND CURBS FROM OTHER ROOF PENETRATIONS CURBS, EDGES, OR VALLEYS. PROVIDE 24" MINIMUM CLEARANCE ON ALL SIDES OF CURBS FROM OTHER CURBS AND/OR WALLS.

5 – PROVIDE CONCRETE SPLASHBLOCKS AT ALL ROOF DRAIN LINE DISCHARGE AND/OR DOWNSPOUT LOCATIONS. SET CONCRETE SPLASHBLOCKS ON TRAFFIC PADS AT ALL ROOF LEVEL LOCATIONS.

6 – PROVIDE TRAFFIC PADS AT THE TOP AND BOTTOM OF ALL ROOF LADDERS, ON ALL SIDES OF MECHANICAL EQUIPMENT, AROUND ANY ROOF ACCESS LOCATIONS, AND UNDER ALL OVER ROOF PIPE OR DUCT SUPPORTS. UNIT SIZE OF TRAFFIC PAD TO BE THREE FEET WIDE WITH ONE INCH JOINTS AT SIX FEET ON CENTER. AT PIPE OR DUCT SUPPORTS, EXTEND TRAFFIC PADS 4" BEYOND EACH SIDE OF SUPPORT.

7 – ALL ROOF TOP EQUIPMENT TO BE PROPERLY SUPPORTED BY ROOF CURB OR EQUIPMENT CURB SUPPORT.

8 – AT SPUF ROOFS, TEAR OUT EXISTING PIPE FLASHING, CLEAN, REFOAM, AND RECOAT. PROVIDE 14" MINIMUM FLASHING HEIGHT. PENETRATIONS TO BE RIGID AND FULLY SUPPORTED BELOW DECK WITH 18" MINIMUM SEPARATION BETWEEN EACH PENETRATION AND CURBS OR WALLS. FLASH REFRIGERANT LINES PRIOR TO INSTALLATION OF FOAM PIPE INSULATION.

9 – ALL ROOF SYSTEM BASE FLASHING TO BE 14" MINIMUM ABOVE ROOF SURFACE, INCLUDING ALL PENETRATION FLASHING. RAISE ALL EXISTING EQUIPMENT OR PENETRATIONS TO ACCOMMODATE.

10 – MITER AND SOLDER ALL CORNERS OF SHEET METAL COUNTER FLASHING AT ROOF CURBS. VERIFY CURBS ARE PROPERLY SIZED.

11 – VERIFY PIPE SUPPORTS ARE PROPERLY SIZED FOR SIZE AND WEIGHT OF OVER ROOF UTILITY LINES. PLACE SUPPORTS AT 8'– 0" O.C. MAXIMUM SPACING AND WITHIN 2' – 0" OF CHANGE IN PIPE DIRECTION. DECREASE SPACING AS REQUIRED TO REMAIN WITHIN PIPE SUPPORT DESIGN LOADS. PIPE SUPPORTS WITH ROLLERS REQUIRED FOR 1.25" DIAMETER PIPING OR GREATER. PROVIDE PADS UNDER ALL SUPPORTS THAT EXTEND 4" BEYOND EACH SIDE OF SUPPORT.

12 – TEMPORARY PROTECTION FOR INSTALLED ROOFING MEMBRANE REQUIRED BY ANY TRADE PERFORMING WORK OVER ROOF SYSTEM. FURTHER PROTECT ROOF AGAINST DAMAGE FROM CUTTING OILS, REFRIGERANT OILS, SOLDER, ETC.

13 – VERIFY WEEPS ARE INSTALLED ABOVE THRU–WALL FLASHINGS AND ROOF BASE FLASHING AT ALL MASONRY RISE WALLS THAT OCCUR ABOVE ROOFING.

14 – VERIFY OVERFLOW DRAIN INLETS ARE SET TWO INCHES ABOVE PRIMARY DRAIN.

15 – PONDING WATER 48 HOURS AFTER RAINFALL IS UNACCEPTABLE.

16 – VERIFY DRAIN STRAINERS ARE METAL AND NOT PLASTIC. VERIFY CLAMPING RINGS ARE PROPERLY SECURED.

17 – VERIFY ALL DRAIN LINES (ROOF DRAINS, OVERFLOW DRAINS, DOWNSPOUTS, ETC.) ARE OPEN AND IN PROPER WORKING ORDER.

18 – VERIFY GAS DIRT LEGS ARE ONE INCH MINIMUM ABOVE FINISHED ROOF SURFACE.

19 – ALL FASTENER SPACING TO BE 8" O.C. MAXIMUM UNLESS OTHERWISE NOTED.

20 – STEP FLASHING IS NOT PERMITTED. MAINTAIN CONSISTENT THRU–WALL FLASHING AND BASE FLASHING ELEVATION.

21 – PROVIDE BOND BREAKER BETWEEN ALL GALVANICALLY INCOMPATIBLE METALS.

22 – PRIME AND PAINT ALL ROOF LEVEL GAS PIPING.

23 – FULLY SOLDER ALL JOINTS OF THROUGH–WALL SCUPPERS. APPLY SEALANT CONTINUOUSLY AROUND ALL EDGES OF FACE PLATE.

24 – PROVIDE PRE–MANUFACTURED EDGE PROTECTION RAILING SYSTEM AT ALL ROOF EDGES WHERE REQUIRED BY CODE.

SYMBOL NOTES TO CONTRACTOR

1. PROVIDE CRICKETS (SLOPE 1/2" PER FOOT) AT ALL LOCATIONS INDICATED ON ROOF PLAN AND ON THE HIGH SIDE OF ALL WALLS, CURBS, OR OTHER OBSTRUCTIONS 24" WIDE OR GREATER TO DIVERT STORM WATER DRAINAGE TO DISCHARGE AREAS (I.E. SCUPPERS). MINIMUM 1/4" PER FOOT NET SLOPE REQUIRED.
2. FABRICATE PRE–FINISHED SHEET METAL WALL COPING CORNERS WITH JOINTS 18 INCHES MINIMUM TO 36 INCHES MAXIMUM FROM CORNERS. PROVIDE FULLY SOLDERED GALVANIZED COPING CORNER UNDER PRE–FINISHED COVER PIECE.
3. FILL ALL DRAIN SUMPS WITH WOOD SHEATHING TO MATCH EXISTING.
4. VERIFY ALL EXISTING VENT LOCATIONS TO REMAIN. REPLACE ALL REMAINING VENTS FABRICATED WITH 24 GAUGE GALVANIZED SHEET METAL SOLDER ALL JOINTS WATERTIGHT.
5. COORDINATE WITH STRUCTURAL AND MEP TO RELOCATE UNIT AWAY FROM CRICKET 24" MINIIMUM FROM VALLEY LINE. PROVIDE RAILING SYSTEM IF UNIT IS LESS THAN TEN FEET AWAY FROM PERIMETER OF ROOF.

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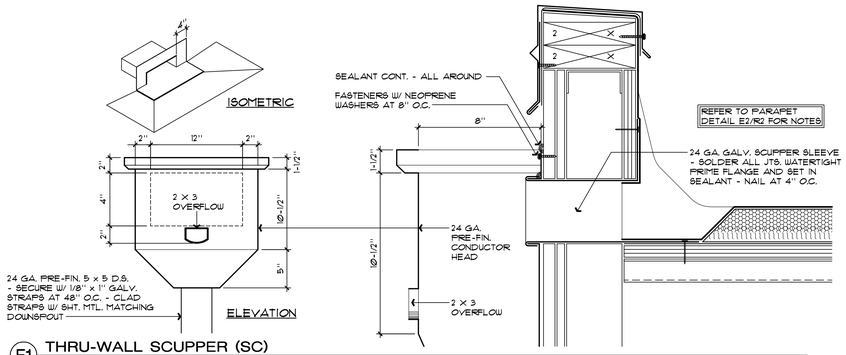
ROOF PLAN

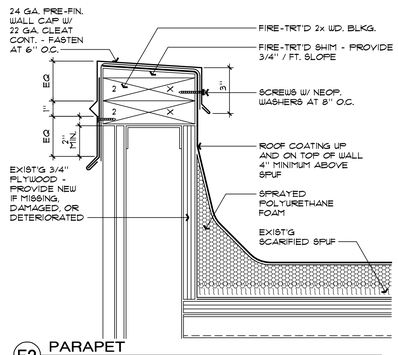
DRAWING RECORD	
DATE	DESCRIPTION

R1

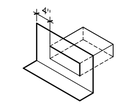
PROJECT NO.: 2023209



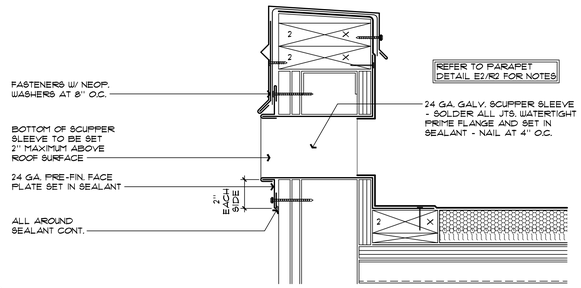
E1 THRU-WALL SCUPPER (SC)
NOT TO SCALE



E2 PARAPET
3" = 1' - 0"

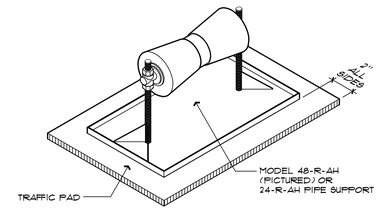


SCUPPER SLEEVE ISOMETRIC

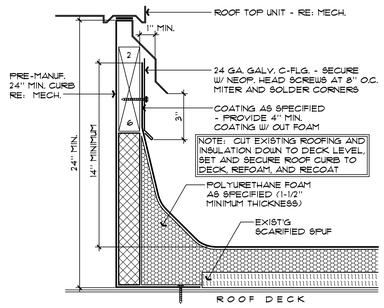


D1 OVERFLOW SCUPPER (OS)
NOT TO SCALE

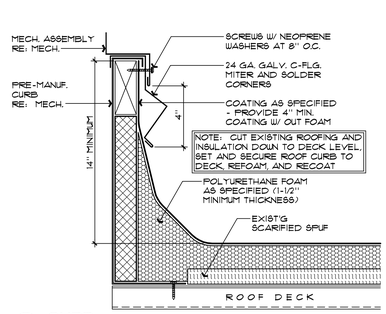
NOTE: PROVIDE PRE-FABRICATED ADJUSTABLE HEIGHT PIPE SUPPORTS W/ ROLLER ASSEMBLY FOR ALL UTILITY LINES GREATER THAN 3/4" IN DIAMETER. SUPPORTS TO PROPERLY SUPPORT PIPE. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SPACING AND APPROPRIATE PIPE SUPPORT FOR SIZE OF PIPE



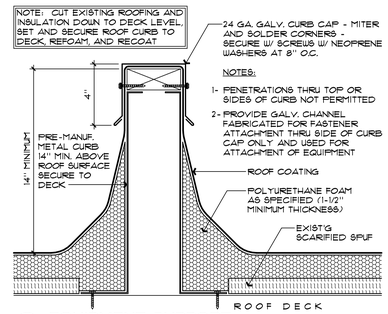
D2 PIPE SUPPORT
NOT TO SCALE



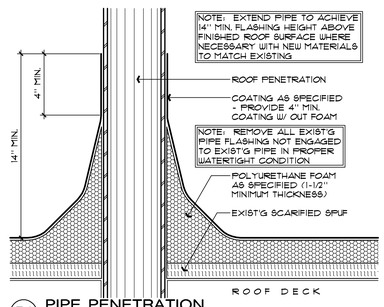
C1 CURB (RTU)
NOT TO SCALE



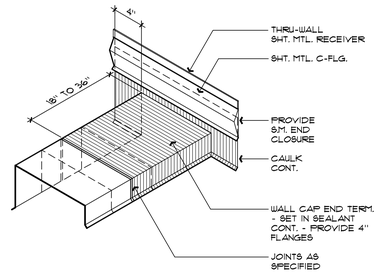
C2 CURB
NOT TO SCALE



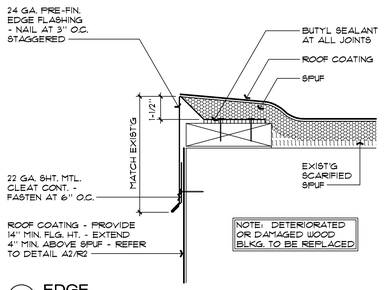
C3 EQUIPMENT SUPPORT
NOT TO SCALE



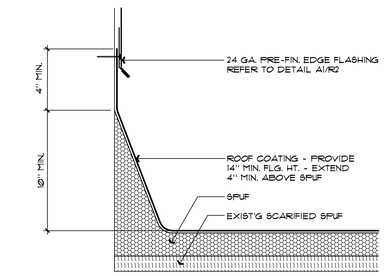
B1 PIPE PENETRATION
NOT TO SCALE



B2 WALL CAP TERMINATION
NOT TO SCALE



A1 EDGE
3" = 1' - 0"



A2 WALL FLASHING
3" = 1' - 0"

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ROOF DETAILS

DRAWING RECORD

DATE	DESCRIPTION

R2

PROJECT NO.: 2023209