DALLAS ISD

BOND2020

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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

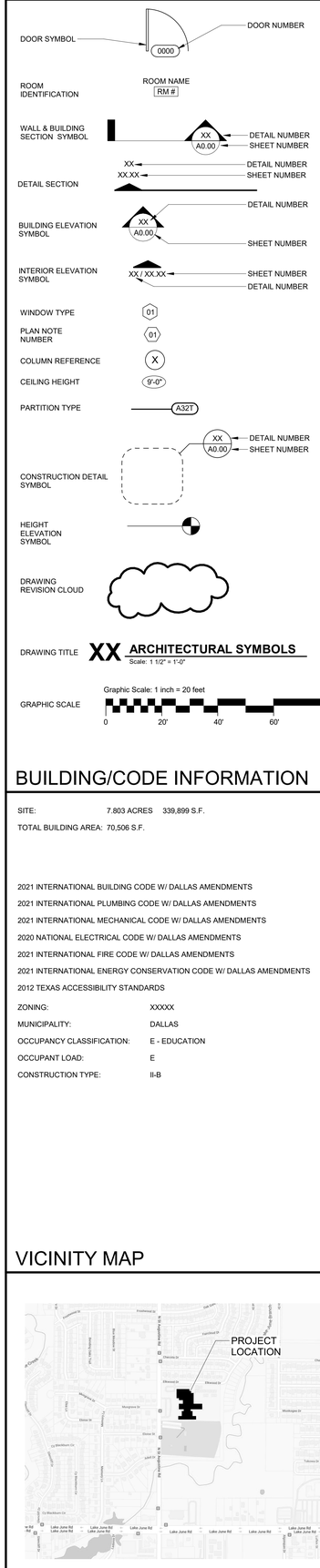
ORG 273 DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

BID SET

PROJECT NO.: 2023208 DATE: 09/18/24

ARCHITECTURAL SYMBOLS



BUILDING/CODE INFORMATION

SITE: 7.803 ACRES 339,899 S.F.

TOTAL BUILDING AREA: 70,506 S.F.

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

VICINITY MAP

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 ASTHEY 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	08/09/24	09/03/24	09/18/24	09/18/24
G0.02	INDEX OF DRAWINGS	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
G0.03	LIFE SAFETY PLAN & CODE INFORMATION	04/29/24					09/18/24	09/18/24
G0.04	TEXAS ACCESSIBILITY STANDARDS (TAS) AND MOUNTING HEIGHTS	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
PH.01	PHASING PLAN 01					09/03/24	09/18/24	09/18/24
PH.02	PHASING PLAN 02					09/03/24	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	08/09/24	09/03/24	09/18/24	09/18/24
C2.00	EXISTING CONDITIONS & DEMOLITION PLAN	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
C3.00	SITE PLAN	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
C4.00	GRADING PLAN	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
C5.00	CIVIL DETAILS					09/03/24	09/18/24	09/18/24
C5.01	CIVIL DETAILS					09/03/24	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	08/09/24	09/03/24	09/18/24	09/18/24
A0.02	ENLARGED DEMOLITION PLANS & DEMOLITION RCPS	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
A1.01	SITE PLAN	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
A1.02	MARQUEE SIGNAGE				08/09/24	09/03/24	09/18/24	09/18/24
A2.01	OVERALL FLOOR PLAN	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
A2.02	ENLARGED PLANS & RCPS	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
A2.03	PLAN AND CEILING DETAILS				08/09/24	09/03/24	09/18/24	09/18/24
A2.04	ROOF PLAN	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
A3.01	ENLARGED FINISH PLANS & MILLWORK DETAILS		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
A3.02	MILLWORK DETAILS & INTERIOR ELEVATIONS		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
A5.01	EXTERIOR BUILDING ELEVATIONS	04/29/24		06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
A6.01	DOOR TYPES, AND DOOR & WINDOW SCHEDULES	04/29/24		06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
A7.01	WALL SECTIONS	04/29/24		06/21/24	08/09/24	09/03/24	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	08/09/24	09/03/24	09/18/24	09/18/24
S1.02	STRUCTURAL NOTES	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
S1.03	SPECIAL INSPECTIONS	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
S1.04	SPECIAL INSPECTIONS	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
S2.01	OVERALL FOUNDATION PLAN	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/03/24
S2.02	ENLARGED VESTIBULE & MARQUEE SIGN FOUNDATION PLANS	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
S2.03	OVERALL ROOF FRAMING PLAN	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
S2.04	ENLARGED VESTIBULE ROOF FRAMING PLAN	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
S3.01	TYPICAL CONCRETE DETAILS		06/21/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
S5.01	TYPICAL STEEL DETAILS		06/21/24	06/21/24	08/09/24	09/03/24	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 SHEET	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M0.10	MECHANICAL DEMOLITION PLAN 'A'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M0.20	MECHANICAL DEMOLITION PLAN 'B'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M0.30	MECHANICAL DEMOLITION ROOF PLAN 'A'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M0.40	MECHANICAL DEMOLITION ROOF PLAN 'B'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M1.01	MECHANICAL PLAN 'A'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M1.02	MECHANICAL PLAN 'B'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M1.03	MECHANICAL ROOF PLAN 'A'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M1.04	MECHANICAL ROOF PLAN 'B'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M3.01	MECHANICAL DETAILS	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M4.01	MECHANICAL EQUIPMENT SCHEDULES		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M5.01	MECHANICAL CONTROLS COVER SHEET	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
M5.02	MECHANICAL CONTROL SCHEMATICS				08/09/24	09/03/24	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 SHEET	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
P0.10	PLUMBING DEMOLITION PLAN 'A'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
P0.20	PLUMBING DEMOLITION PLAN 'B'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
P1.01	PLUMBING PLAN 'A'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
P1.02	PLUMBING PLAN 'B'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
P4.01	PLUMBING EQUIPMENT SCHEDULES		05/20/24	06/21/24	08/09/24	09/03/24	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 SHEET	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E0.10	ELECTRICAL SITE PLAN	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E0.20	ELECTRICAL DEMOLITION PLAN 'A'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E0.30	ELECTRICAL DEMOLITION PLAN 'B'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E0.40	ELECTRICAL DEMOLITION ROOF PLAN 'A'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E0.50	ELECTRICAL DEMOLITION ROOF PLAN 'B'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E1.01	LIGHTING PLAN 'A'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E1.02	LIGHTING PLAN 'B'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E2.01	POWER PLAN 'A'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E2.02	POWER PLAN 'B'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E2.03	POWER ROOF PLAN 'A'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E2.04	POWER ROOF PLAN 'B'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E3.01	ELECTRICAL DETAILS		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
E4.01	ELECTRICAL SCHEDULES AND DIAGRAMS		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
FA1.01	FIRE ALARM PLAN	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
FP1.01	FIRE PROTECTION PLAN 'A'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
FP1.02	FIRE PROTECTION PLAN 'B'		05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
T0.01	TECHNOLOGY COVER	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
T1.01	TECHNOLOGY PLAN 'A'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
T1.02	TECHNOLOGY PLAN 'B'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24
T3.01	TECHNOLOGY AND SECURITY DETAILS				08/09/24	09/03/24	09/18/24	09/18/24
TS1.01	SECURITY PLAN 'A'	04/29/24	05/20/24	06/21/24	08/09/24	09/03/24	09/18/24	09/18/24

ABBREVIATIONS

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

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REGISTERED ARCHITECT
STATE OF TEXAS

09/18/2024

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DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

ORG 273 DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

INDEX OF DRAWINGS

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

G0.02

PROJECT NO.: 2023208

EXIT ACCESS TRAVEL DISTANCE

EXIT ROUTE	ACTUAL	MAX. ALLOWABLE
EXIT ROUTE A	60'	
EXIT ROUTE B	62'	
EXIT ROUTE C	83'	
EXIT ROUTE D	82'	

OCCUPANCY SIGNAGE

MAXIMUM OCCUPANCY XXX

10" x 6" SIGN WITH 1" RAISED CHARACTERS

COUNT BASED ON "OCCUPANT LOAD" TABLE

LIFE SAFETY PLAN LEGEND

F.E.C. — SURFACE MOUNT FIRE EXTINGUISHER CABINET

F.E.C. — RECESSED FIRE EXTINGUISHER CABINET

F.E. — SURFACE MOUNT FIRE EXTINGUISHER

Room Name / Name / 1,700 | 200 / B | 9

FLOOR AREA IN S.F.

OCCUPANCY CLASSIFICATION (FUNCTION OF SPACE)

FUNCTION OF SPACE

OCCUPANCY TYPE

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

OCCUPANCY LOAD OF ROOM

DIRECTIONAL ARROWS

OCCUPANCY FLOW

EXIT SIGN

E — EXIT DEVICE

CR — CARD READER

O.S. — OCCUPANCY SIGN

XX — IDENTIFIER

EXIT ROUTE

REQUIRED EXIT WIDTH

FACTOR

AGGREGATE OCCUPANT LOAD PER EXIT

ALLOWABLE OCCUPANT LOAD BASED ON ACTUAL WIDTH

ACTUAL EXIT WIDTH

1-HOUR FIRE BARRIER

2-HOUR FIRE BARRIER

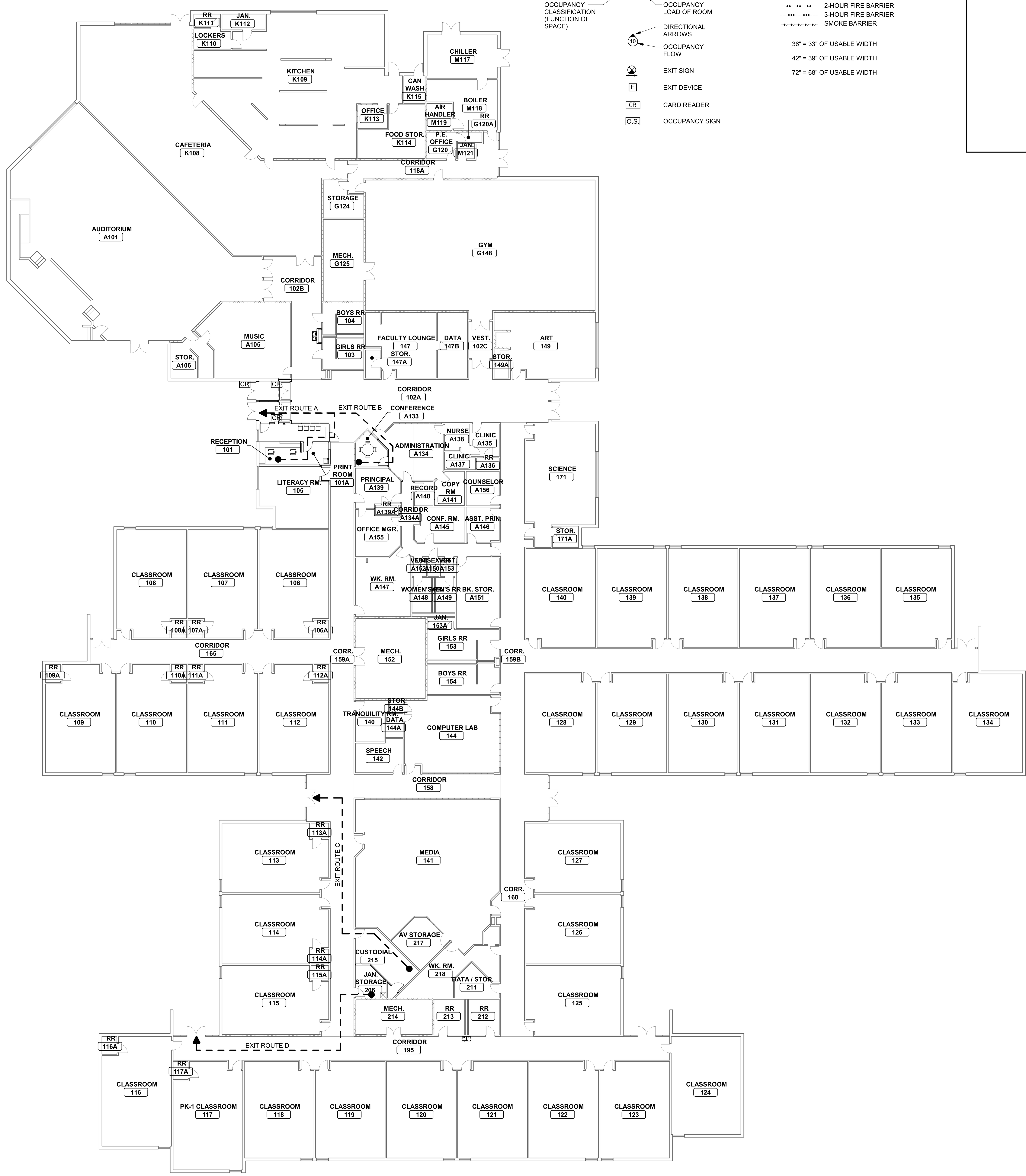
3-HOUR FIRE BARRIER

SMOKE BARRIER

36" = 33" OF USABLE WIDTH

42" = 39" OF USABLE WIDTH

72" = 68" OF USABLE WIDTH



TRUE NORTH PLAN NORTH

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

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ORG 273 DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

LIFE SAFETY PLAN & CODE INFORMATION

DRAWING RECORD

DATE	DESCRIPTION
06/21/24	50% SET
09/03/24	100% SET
09/18/24	BID SET

G0.03

PROJECT NO.: 2023208

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.

1/2" MAX.

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.

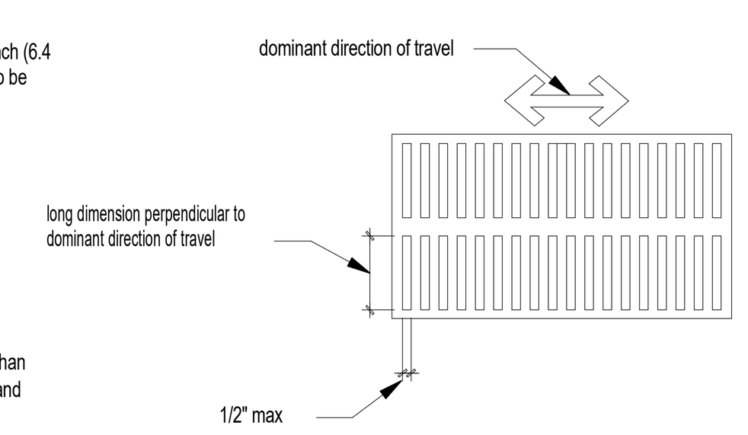


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

304 Turning Space

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.

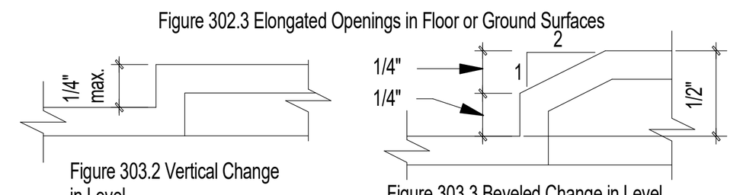


Figure 303.2 Vertical Change in Level

Figure 303.3 Beveled Change in Level

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.

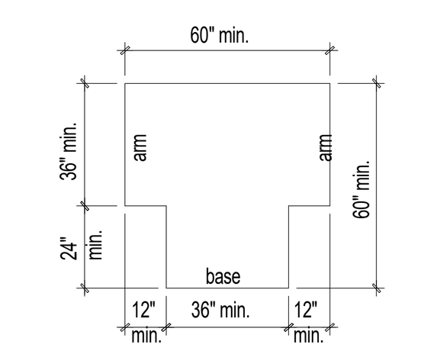


Figure 304.3.2 T-Shaped Turning Space

30" min.
48" min.

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).

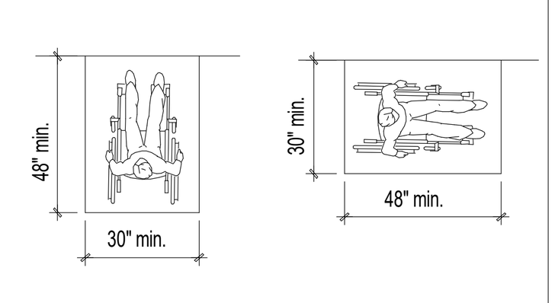


Figure 305.5 Position of Clear Floor or Ground Space

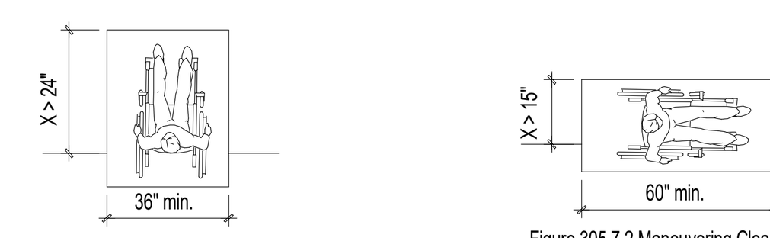


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

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.

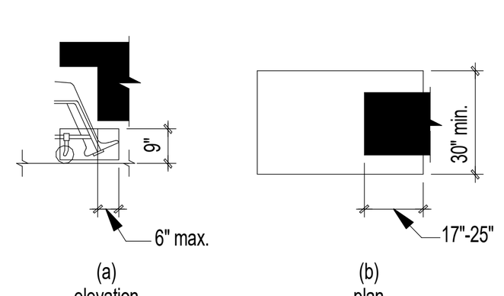


Figure 306.2 Toe Clearance

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.

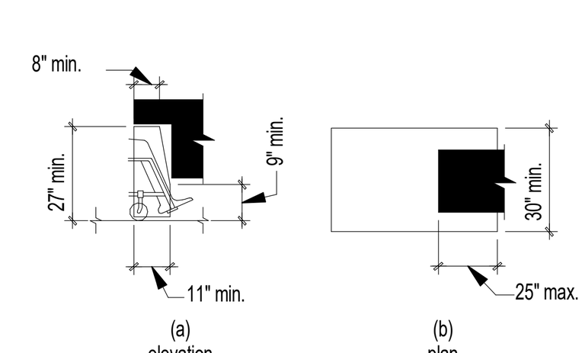


Figure 306.3 Knee Clearance

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.

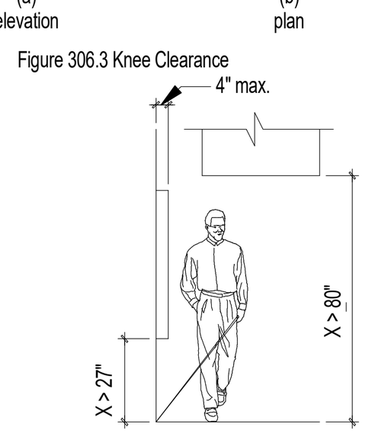


Figure 307.2 Limits of Protruding Objects

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.

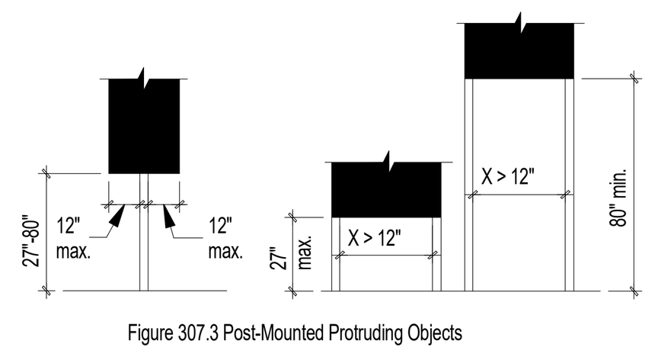


Figure 307.3 Post-Mounted Protruding Objects

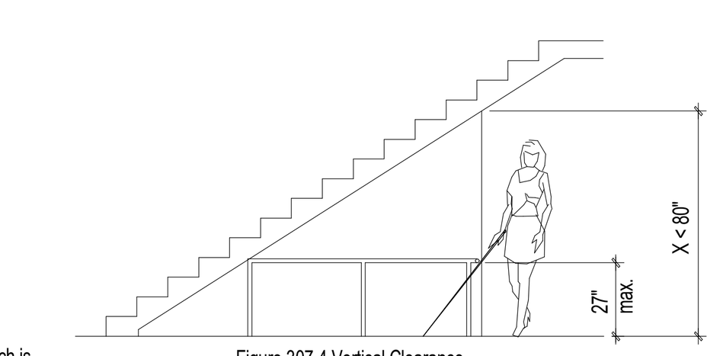


Figure 307.4 Vertical Clearance

308 Reach Ranges

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)

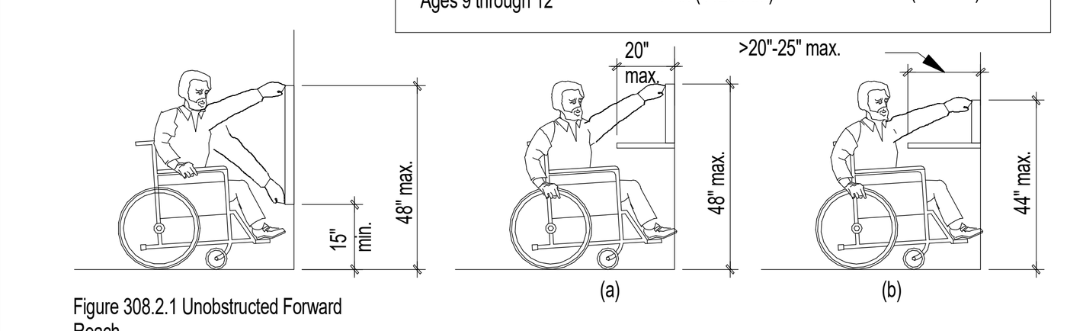


Figure 308.2.1 Unobstructed Forward Reach

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.

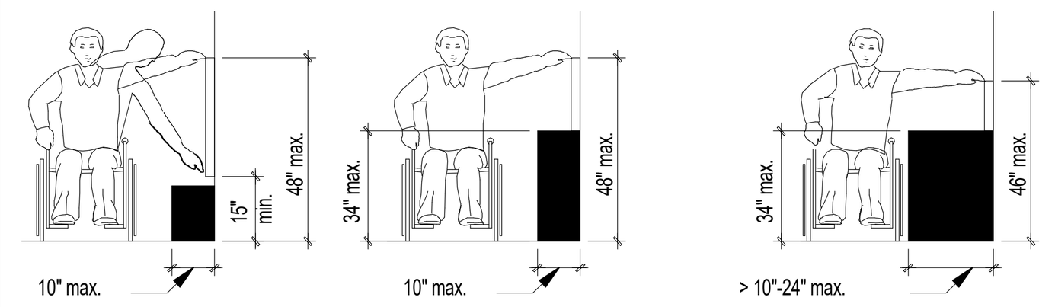


Figure 308.3.1 Unobstructed Side Reach

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.

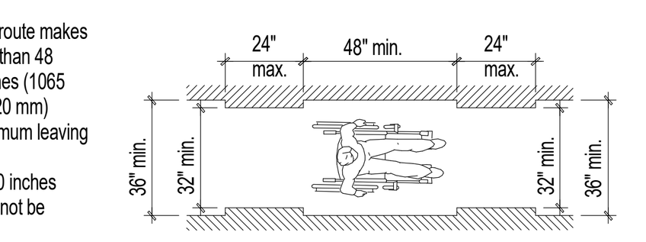


Figure 403.5.1 Clear Width of an Accessible Route

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.

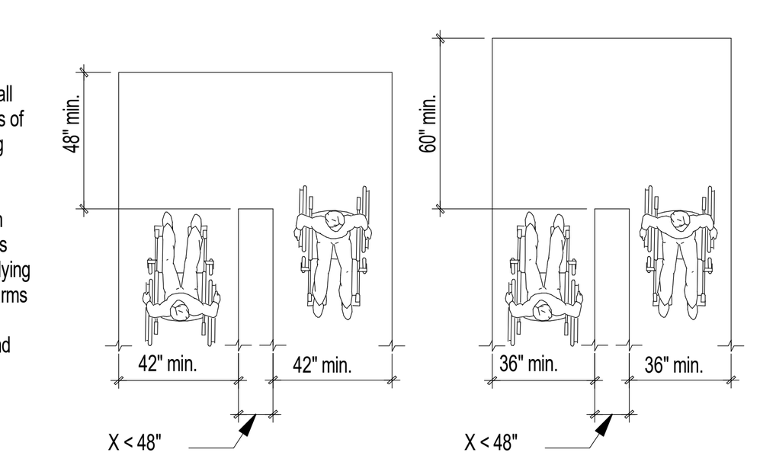


Figure 403.5.2 Clear Width at Turn

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.

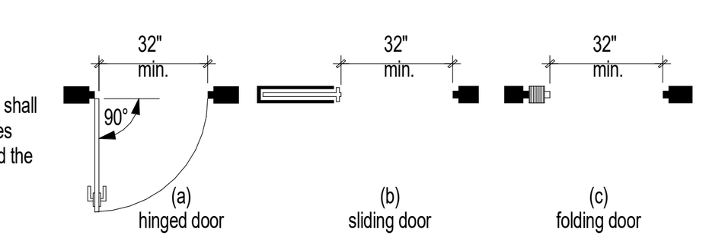


Figure 404.2.3 Clear Width of Doorways

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)

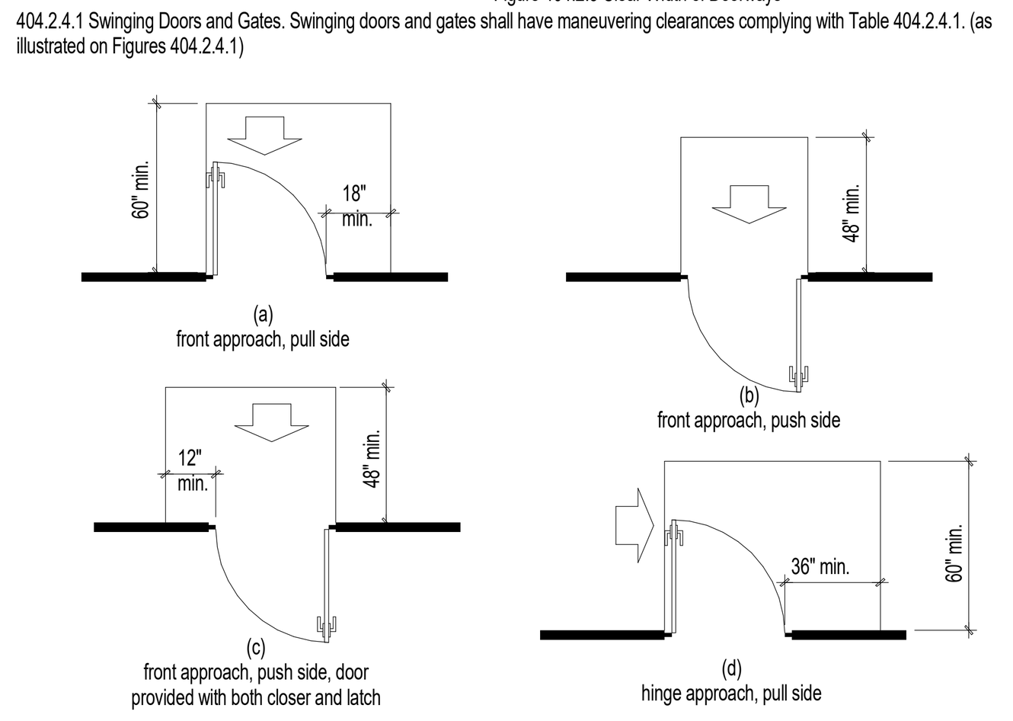


Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

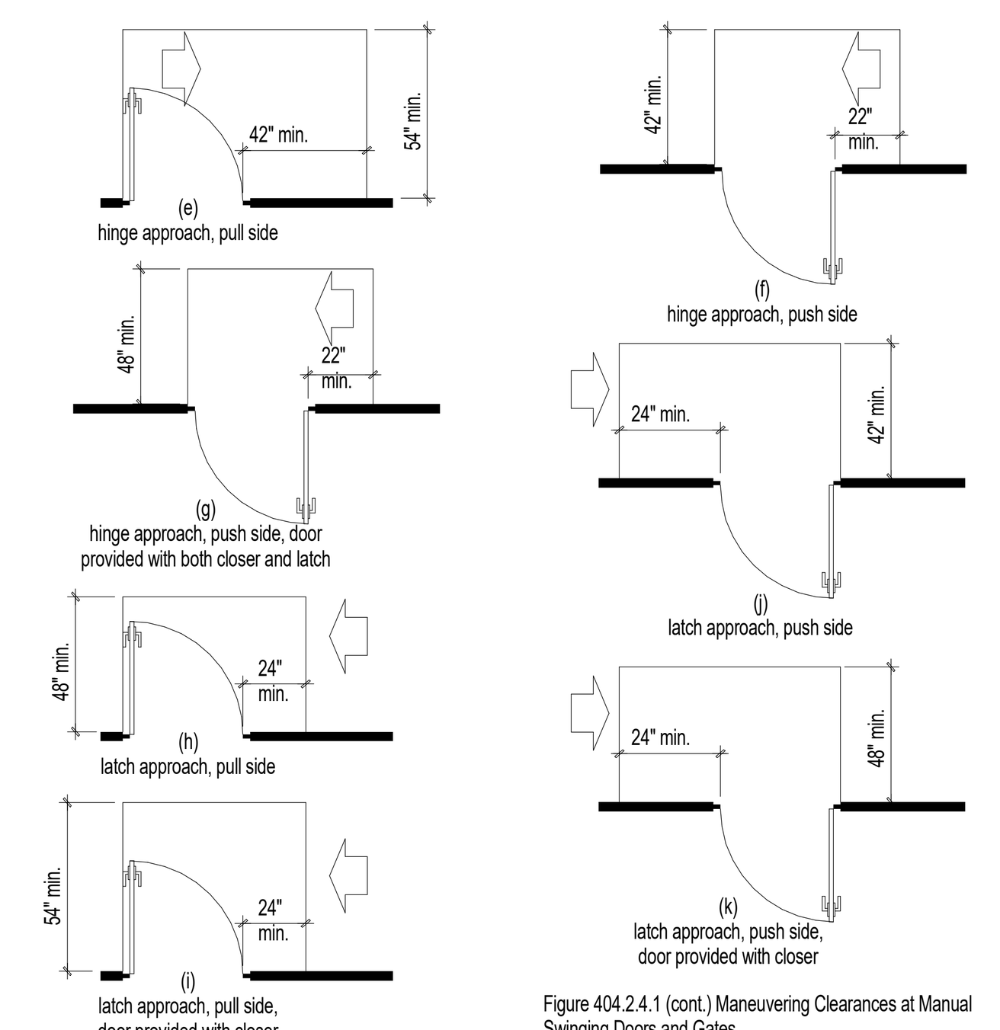


Figure 404.2.4.1 (cont.) Maneuvering Clearances at Manual Swinging Doors and Gates

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.

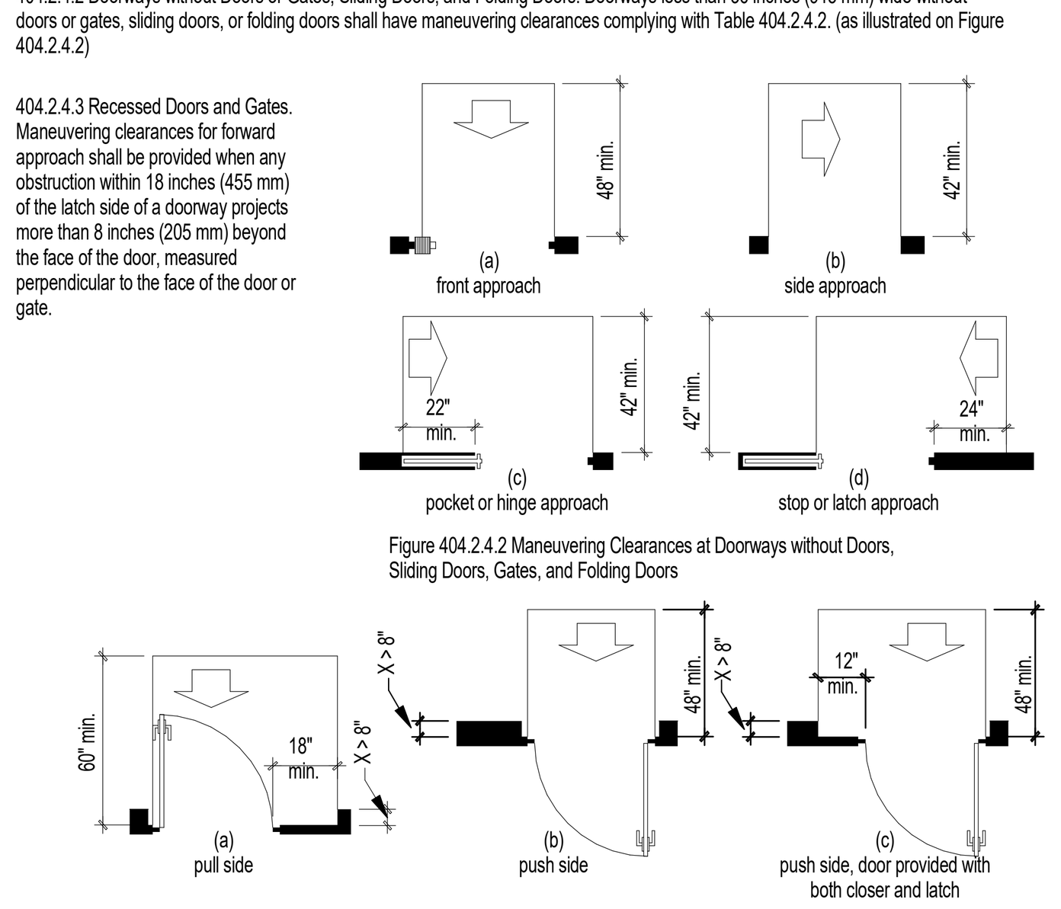


Figure 404.2.4.2 Maneuvering Clearances at Doorways without Doors, Sliding Doors, Gates, and Folding Doors

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.

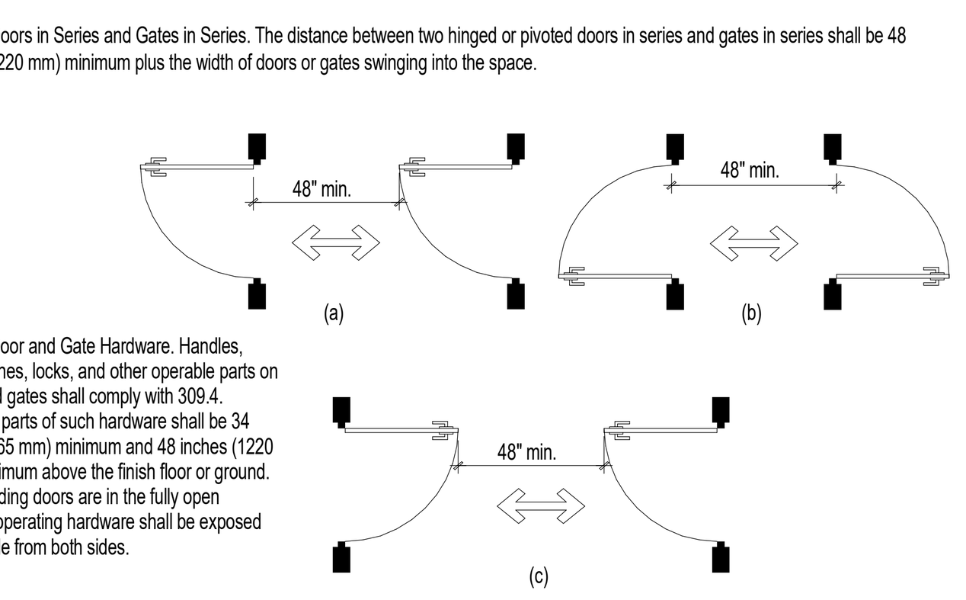


Figure 404.2.6 Doors in Series and Gates in Series

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.

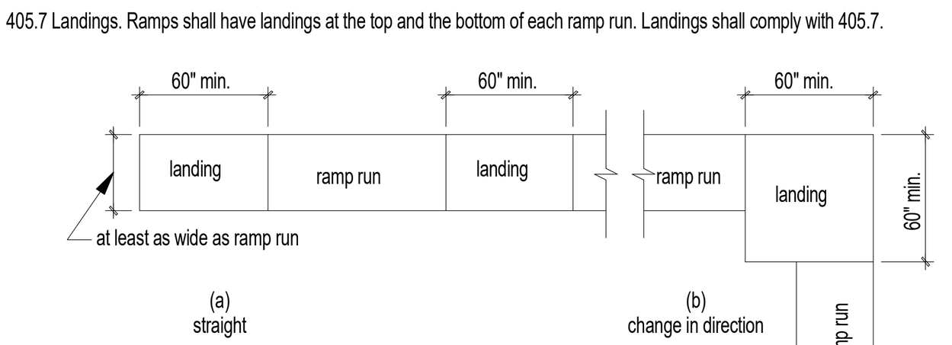


Figure 405.7 Ramp Landings

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.

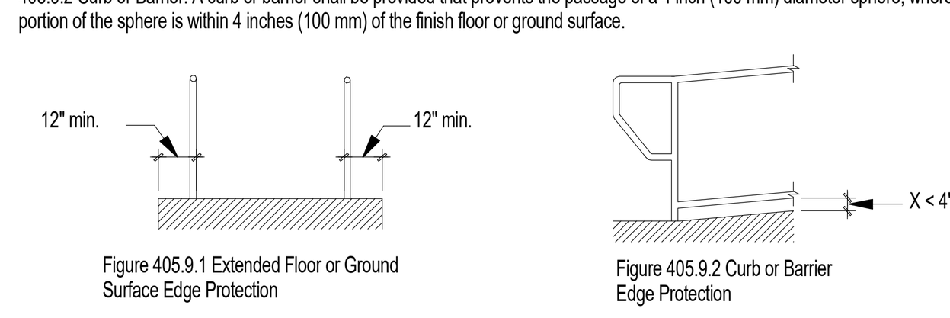


Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

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.

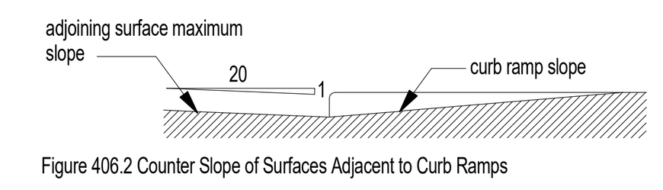


Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

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.

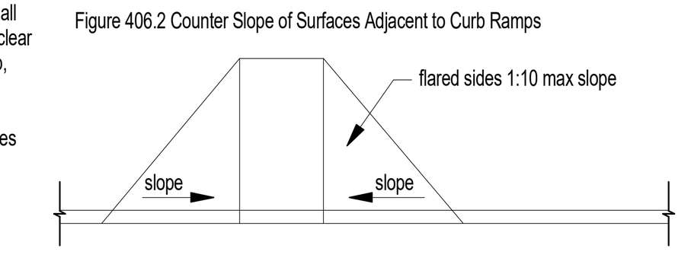


Figure 406.3 Sides of Curb Ramps

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.

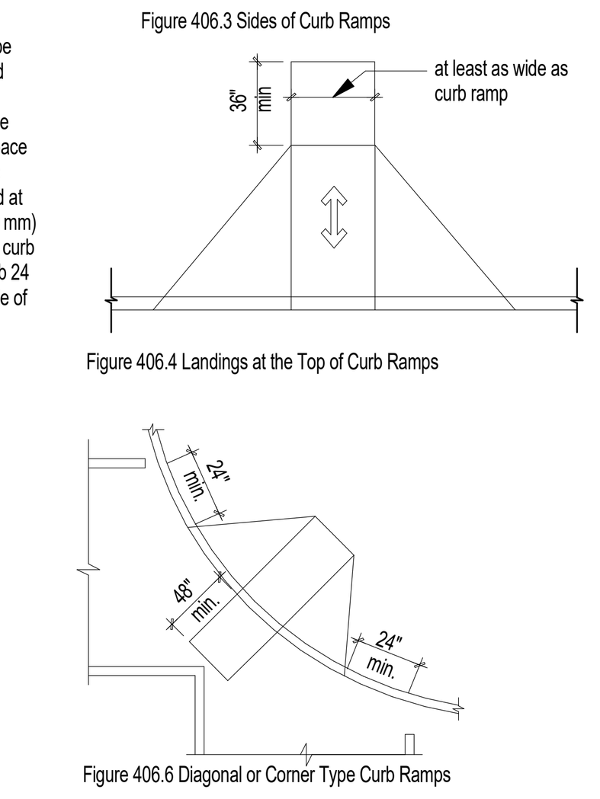


Figure 406.4 Landings at the Top of Curb Ramps

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.

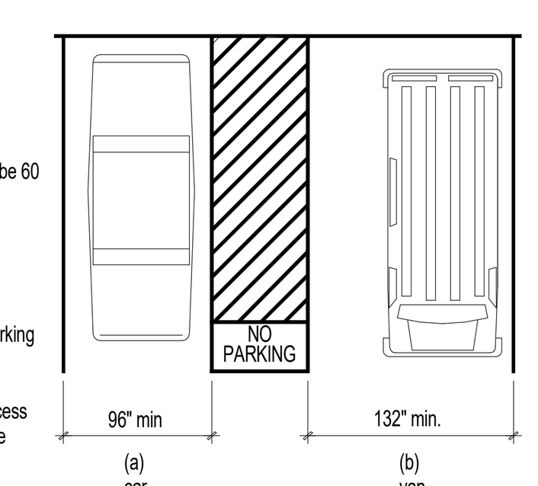


Figure 502.2 Vehicle Parking Spaces

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.

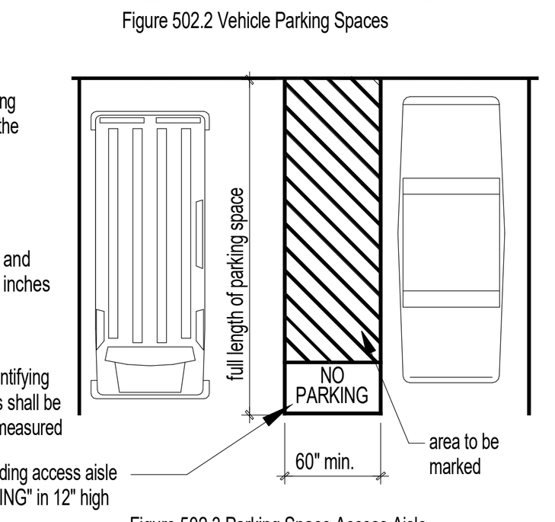


Figure 502.3 Parking Space Access Aisle

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.

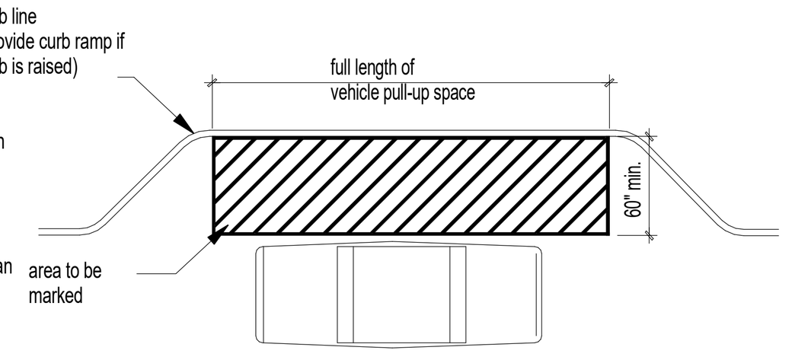


Figure 503.3 Passenger Loading Zone Access Aisle

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.

34"-38"
34"-38"
34"-38"
(a) stairs
(b) ramps
(c) walking surfaces

Figure 505.4 Handrail Heigh t

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

1½" min.

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.

1½" min.

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.

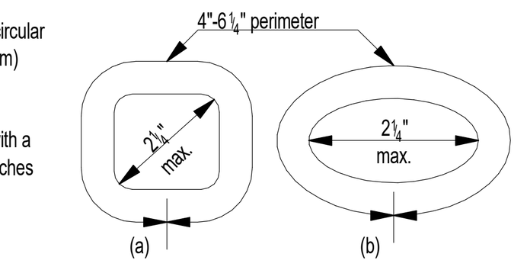


Figure 505.7.2 Handrail Non-Circular Cross Section

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.

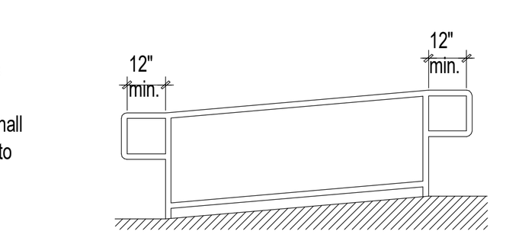


Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

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.

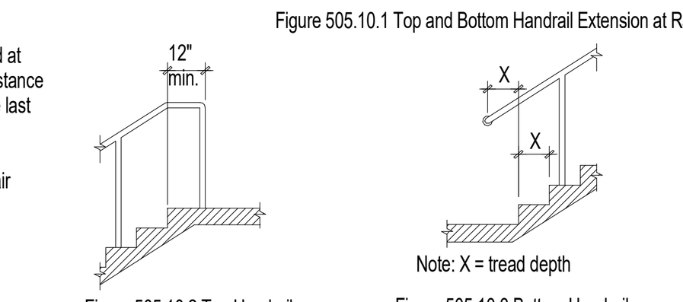


Figure 505.10.2 Top Handrail Extension at Stairs

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.

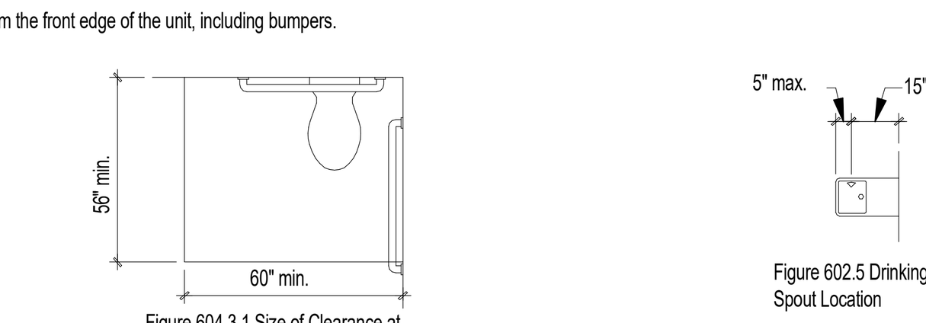


Figure 604.3.1 Size of Clearance at Water Closets

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.

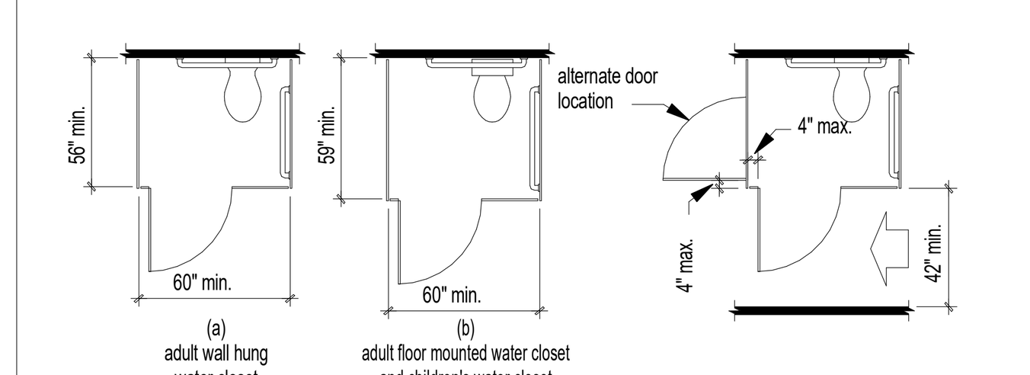


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

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.

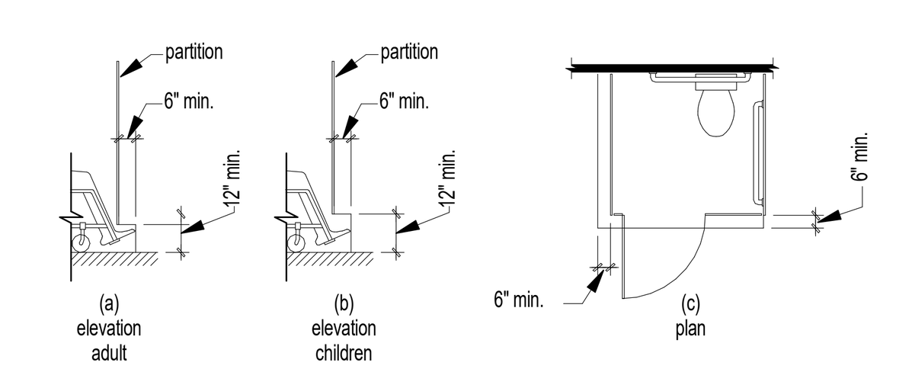


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

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.

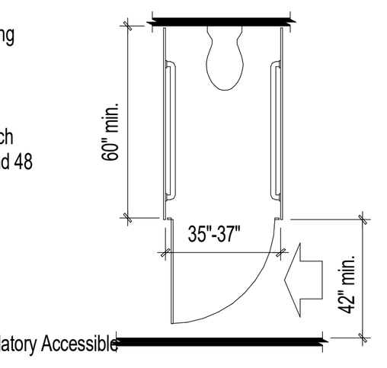


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

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.

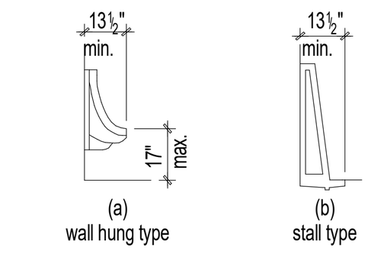


Figure 605.2 Height and Depth of Urinals

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

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.

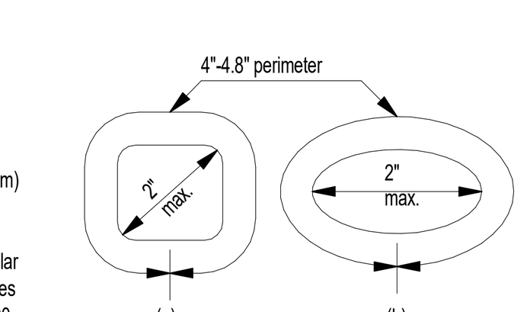


Figure 609.2.2 Grab Bar Non-Circular Cross Section

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.

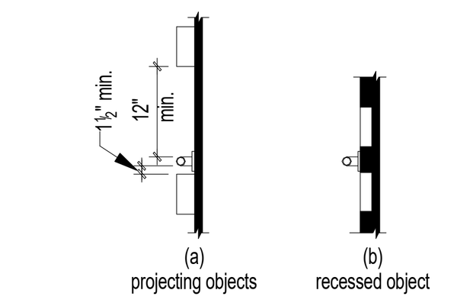


Figure 609.3 Spacing of Grab Bars

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.

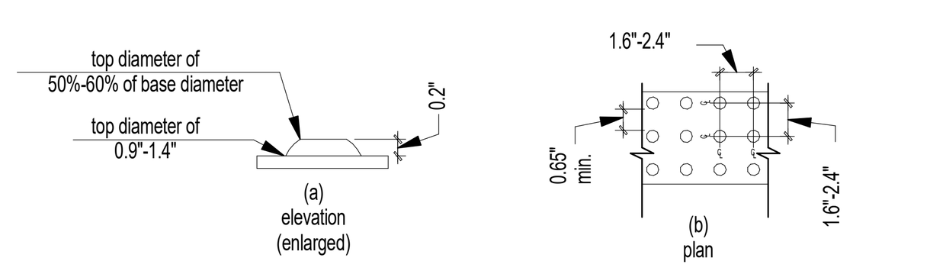
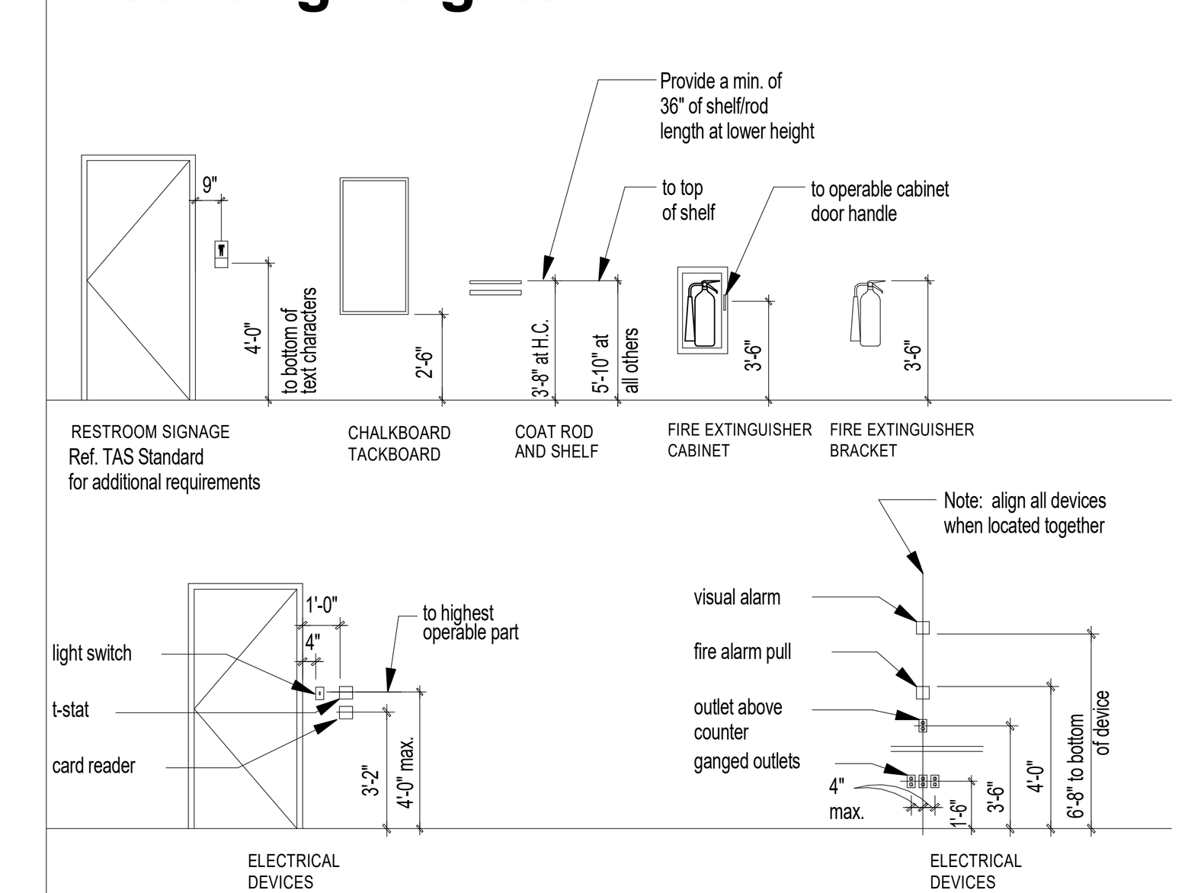
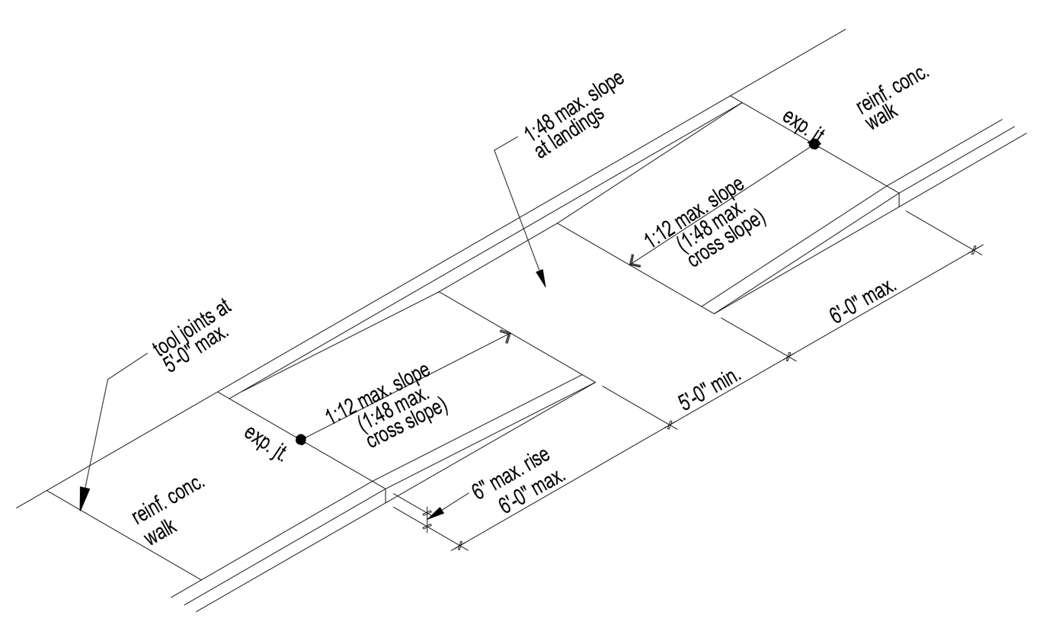


Figure 705.1 Size and Spacing of Truncated Domes

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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REGISTERED ARCHITECT
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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% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

G0.04

PROJECT NO.: 2023208

GENERAL NOTES FOR CONSTRUCTION PHASINGS

1. NO WORK SHALL BE ALLOWED TO BE PERFORMED DURING TESTING WEEKS

2. 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.

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

4. 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.

5. NO TRENCHING OR EXCAVATION ALLOWED DURING SCHOOL HOURS.

6. REFER TO PROJECT MANUAL, DIVISION 01 FOR ADDITIONAL REQUIREMENTS.

7. 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.

8. GENERAL CONTRACTOR IS TO AUDIT ALL EXISTING SYSTEMS BEFORE THE WORK IS STARTED TO VERIFY WORKING AND/OR NON-WORKING COMPONENTS. THIS INCLUDES A SCHEDULED WALK THRU WITH DISD MAINTENANCE FACILITES. THE SYSTEMS INCLUDED ARE FIRE SPRINKLER, FIRE 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.

9. 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.

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

GENERAL NOTES FOR CONSTRUCTION PHASING CONTINUED:

11. THE GC TO INCLUDE IN THE SCHEDULE FOR MAINTENANCE TO REVIEW ABOVE CEILING FOR ALL HVAC (PRIOR TO CEILINGS BEING COVERED)

12. THE GC TO INCLUDE ALL SPECIAL PROJECT ASSIGNMENTS IN YOUR SCHEDULE (PRELIFTS, PREDIGS, PREUTILITY SHUTDOWNS, ETC)

13. THE GC SUBMITTALS ARE DRIVEN TO CONCLUSION WITHIN 120 DAYS FROM NTP.

14. 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.

15. ALL CONSTRUCTION TO BE PHASED BY WING. GC TO COORDINATE WITH ARCHITECT, PROGRAM MANAGER, DALLAS ISD PM AND SCHOOL PERSONEL.

16. GC TO COORDINATE WITH PROGRAM MANAGER, DALLAS ISD PM AND SCHOOL PERSONEL WHEN DEMOLITION IN CLASSROOMS. REQUIRED TO HAVE MINIMAL IMPACT ON TEACHING ACTIVITIES.

17. NO WORK SHALL BE ALLOWED TO BE PERFORMED DURING TESTING WEEKS. PLEASE CONSULT WITH THE ASSIGNED PROGRAM MANAGER AND SCHOOL STAFF FOR SPECIFIC TESTING DATES. ALSO, REFER TO DIV 1 FOR TESTING DATES ALLOTED BY DISD.

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

SCHOOL AND WORKING HOURS

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

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

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

IMPORTANT NOTES:

A. 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 BOUNDARIES OF THE SCHOOL BEFORE THE GC'S MOBILIZATION.

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

3. GC TO MAKE SURE THE STAGING AREA IS AT A SAFETY DISTANCE FROM STUDENTS AND WORKERS AND NOT IMMEDIATELY ADJACENT TO STUDENTS AND STAFF.

4. GC RESPONSIBLE FOR ALL COST, RELATED TO WORKERS HAVING OFFSITE PARKING.

WORK AREA "A"

WORK IN THIS AREA MUST BE COMPLETED BEFORE "B" AND "C" CAN START. 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.

ORDER OF CONSTRUCTION

A.1 - REMOVE EXISTING EQUIPMENT, MATERIALS, MILLWORK , WALL BASE AND FLOORING. ANY DAMAGE TO EXISTING WALLS TO REMAIN SHALL BE REPAIRED.

A.2 - INSTALL NEW SCHEDULED MATERIAL, CEILING AND NEW PARTITIONS.

A.3 - RELOCATE STAFF FROM WORK AREA "C" ONCE WORK AREA "A" IS COMPLETED. ALONG WITH MOVEABLE FURNITURE EQUIPMENT & DESKS. THIS RELCOATION WILL BE REQUIRED AFTER AREA "A" DEMOLITION & CONSTRUCTION IS COMPLETED.

WORK AREA "B"

OCCUPANTS WILL BE RELOCATED FOR DURATION. WORK IN THIS AREA CAN NOT BE SCHEDULED UNTIL WORK AREA "A" IS COMPLETE. RECEPTION STAFF WILL BE RELOCATED TO WORK AREA "B" FROM AREA "C". ANY MECHAINCAL, ELECTRICAL, PLUMBING, LIFE SAFETY & SECURITY WORK IN THIS AREA MUST RESPECT FUNCTIONALITY OF REMAINDER OF FACILITY. GC SHALL INSTALL TEMPORARY DOOR BUZZER & CAMERA TO THIS AREA.

PLEASE NOTE: AT TEMPORARY PARENT ENTRANCE. GC TO RELOCATE AND INSTALL DOOR BUZZER AND CAMERA, WILL BE CONTROLLED AND MONITORED AT TEMPORARY ADMIN OFFICE, PRIOR TO START OF WORK IN WORK AREA 'C'. GC TO PROVIDE, IN COORDINATION WITH FACILITY STAFF, DIRECTIONAL SIGNAGE TO SUPPORT CAMPUS OPERATIONS AND WAYFINDING.

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"

OCCUPANTS WILL BE RELOCATED FOR DURATION. WORK IN THIS AREA CANNOT BE SCHEDULED AT SAME TIME AS WORK AREA 'A' OR 'B'. WORK AREA "C" CAN NOT START UNTIL WORK AREA "B" IS COMPLETED. ANY MECHAINCAL, ELECTRICAL, PLUMBING, LIFE SAFETY & SECURITY WORK IN THIS AREA MUST RESPECT FUNCTIONALITY OF REMAINDER OF FACILITY. FINAL COMPLETION OF WORK SHOULD NOT BE UNDERTAKEN UNTIL NEW FIRE ALARM AND RELOCATED ELECTRICAL PANEL HAS BEEN RETURNED TO SERVICE.

ORDER OF CONSTRUCTION

C.1 - RELOCATE SCHOOL STAFF TO NEW RENOVATED SPACE IN WORK AREA "A". ORDER OF CONSTRUCTION

C.2 - RELOCATE SCHOOL STAFF TO WORK AREA "B".

C.3 - REMOVE EXISTING FURNITURE AND EQUIPMENT. COORDINATE WITH OWNER FOR STORAGE LOCATION

C.4 - INSTALL EXTERIOR SEPERATION FROM PUBLIC

C.5 - INSTALL NEW TEMPORARY SEPERATION WALL FROM THE STUDENTS AND STAFF.

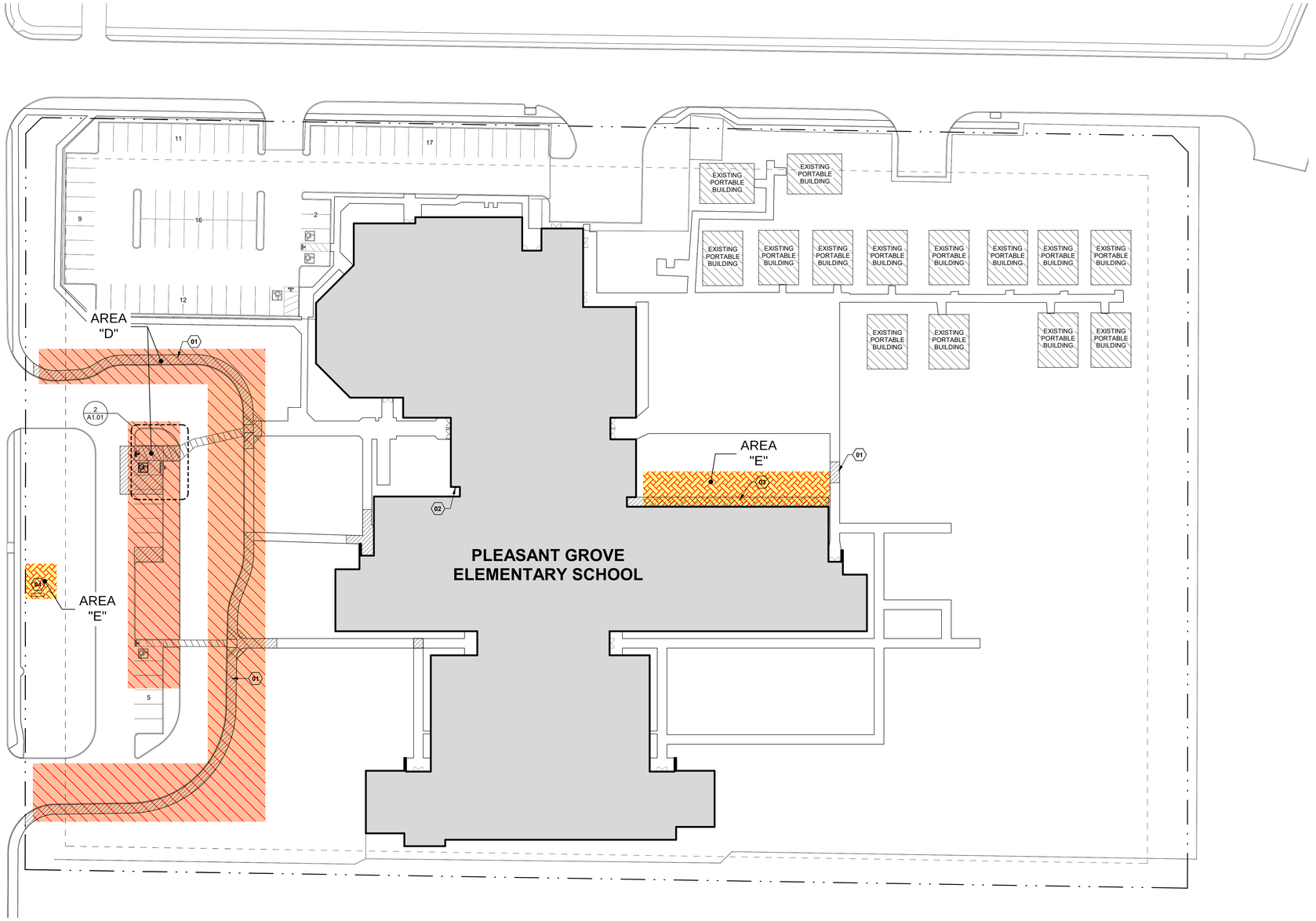
C.4 - INSTALL EXTERIOR SEPERATION FROM PUBLIC

WORK AREA "D"

SCOPE IN THESE AREAS MAY BE PHASED TOGETHER. DUE TO THE EFFECT THE WORK ON THE FUNCTIONALITY OF THE FACILITY, CONSIDER PERFORMING THIS WORK DURING THE SUMMER.

WORK AREA "E"

SCOPE THIS AREA MAY BE SCHEDULED AT ANY POINT, BUT WORK UNDERTAKEN AT START OF SHIFT MUST BE RETURNED TO SERVICE IN FINISHED CONDITION BY START OF NEXT ACADEMIC DAY. THIS INCLUDES EXTERIOR LIGHT REPLACEMENT, MARQUEE SIGNAGE REPLACEMENT REGRADIING



TRUE NORTH
PLAN NORTH

1 OVERALL SITE PLAN
Scale: 1" = 30'-0"

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 273 DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

PHASING PLAN 01

DRAWING RECORD	
DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

PH.01

PROJECT NO.: 2023208

IMPORTANT NOTES:

A. 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 BOUNDARIES OF THE SCHOOL BEFORE THE GC'S MOBILIZATION.

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WORK AREA "B"

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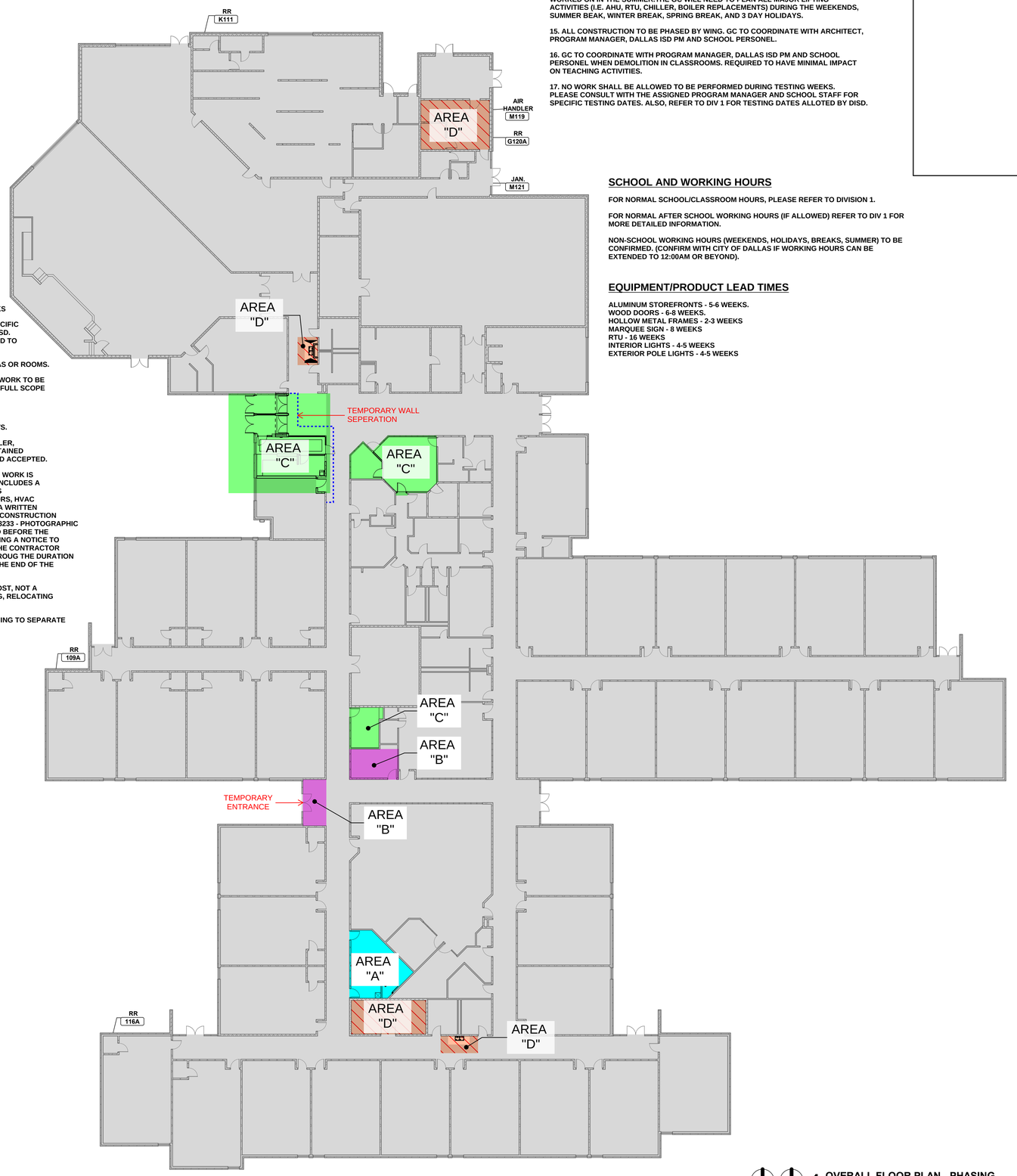
9. GC TO INCLUDE ALL COST RELATED TO SAFETY IN THE CONSTRUCTION COST, NOT A SEPARATE BUDGET OR ADD SERVICE. (FOR EXAMPLE, RELOCATING FENCING, RELOCATING PARTITIONS, HARD BARRIERS, FENCING WITH SCREENING, ETC.

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



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

TRUE NORTH
PLAN NORTH

GENERAL NOTES FOR CONSTRUCTION PHASING CONTINUED:

11. THE GC TO INCLUDE IN THE SCHEDULE FOR MAINTENANCE TO REVIEW ABOVE CEILING FOR ALL HVAC (PRIOR TO CEILINGS BEING COVERED)

12. THE GC TO INCLUDE ALL SPECIAL PROJECT ASSIGNMENTS IN YOUR SCHEDULE (PRELIFTS, PREDIGS, PREUTILITY SHUTDOWNS, ETC)

13. THE GC SUBMITTALS ARE DRIVEN TO CONCLUSION WITHIN 120 DAYS FROM NTP.

14. 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.

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16. GC TO COORDINATE WITH PROGRAM MANAGER, DALLAS ISD PM AND SCHOOL PERSONEL WHEN DEMOLITION IN CLASSROOMS. REQUIRED TO HAVE MINIMAL IMPACT ON TEACHING ACTIVITIES.

17. NO WORK SHALL BE ALLOWED TO BE PERFORMED DURING TESTING WEEKS. PLEASE CONSULT WITH THE ASSIGNED PROGRAM MANAGER AND SCHOOL STAFF FOR SPECIFIC TESTING DATES. ALSO, REFER TO DIV 1 FOR TESTING DATES ALLOTED BY DISD.

SCHOOL AND WORKING HOURS

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

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

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

EQUIPMENT/PRODUCT LEAD TIMES

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WOOD DOORS - 6-8 WEEKS.
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MARQUEE SIGN - 8 WEEKS
RTU - 16 WEEKS
INTERIOR LIGHTS - 4-5 WEEKS
EXTERIOR POLE LIGHTS - 4-5 WEEKS

ALLIANCE ARCHITECTS
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09/18/2024

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OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

ORG 273 DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

PHASING PLAN 02

DRAWING RECORD	
DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

PH.02

PROJECT NO.: 2023208

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 AZ&B DATED AUGUST 2024, AS WELL AS BY DAL-TECH ENGINEERING, INC. DATED JULY 2010.
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 NOTED OTHERWISE)
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 AZ&B DATED AUGUST 2024, AS WELL AS BY DAL-TECH ENGINEERING, INC. DATED JULY 2010.
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...

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09.19.2024

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Jacobs

DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

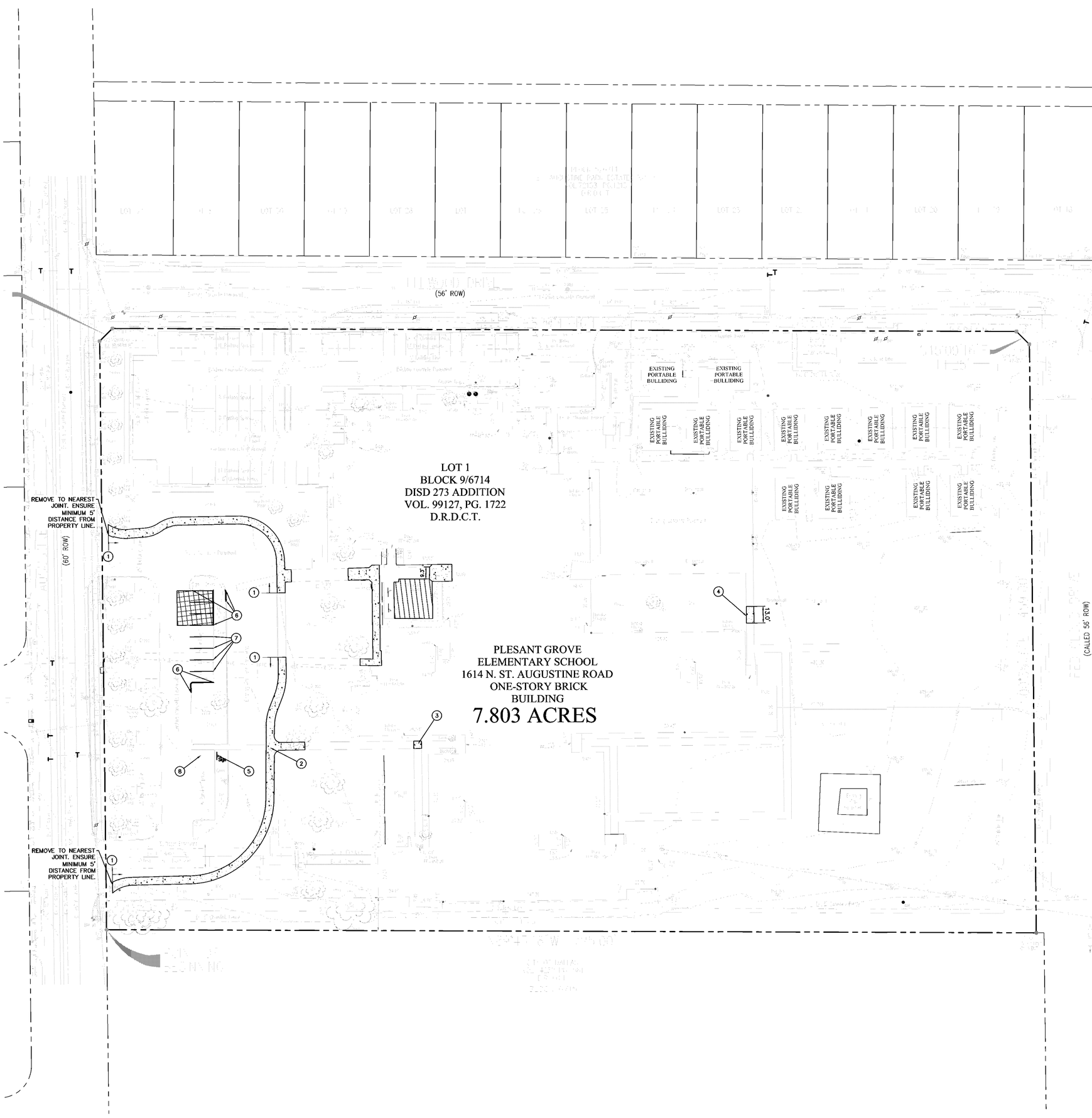
GENERAL NOTES

DRAWING RECORD

DATE	DESCRIPTION

C1.00

PROJECT NO.: 2023208



Legend

- EXISTING BUILDING
- CONCRETE SIDEWALK TO BE REMOVED
- CONCRETE PAVEMENT TO BE REMOVED
- STRIP AREA FREE OF VEGETATION BETWEEN THE SIDEWALKS AND METAL EDGE
- PROPERTY BOUNDARY

Keynotes

(1) LIMITS OF CONCRETE SIDEWALK REMOVAL & REPLACEMENT. REMOVE SIDEWALK TO THE NEAREST JOINT. NO WORK IS TO TAKE PLACE WITHIN THE PUBLIC ROW. CURB TO REMAIN

(2) REMOVE AND REPLACE ADA CURB RAMP

(3) REMOVE AND REPLACE CONCRETE SIDEWALK PANEL

(4) REMOVE CONCRETE SIDEWALK

(5) REMOVE ADA SIGNAGE & STRIPING

(6) LIMITS OF CURB REMOVAL

(7) STRIPING TO BE REMOVED

(8) REMOVE ADA PAVEMENT STRIPING

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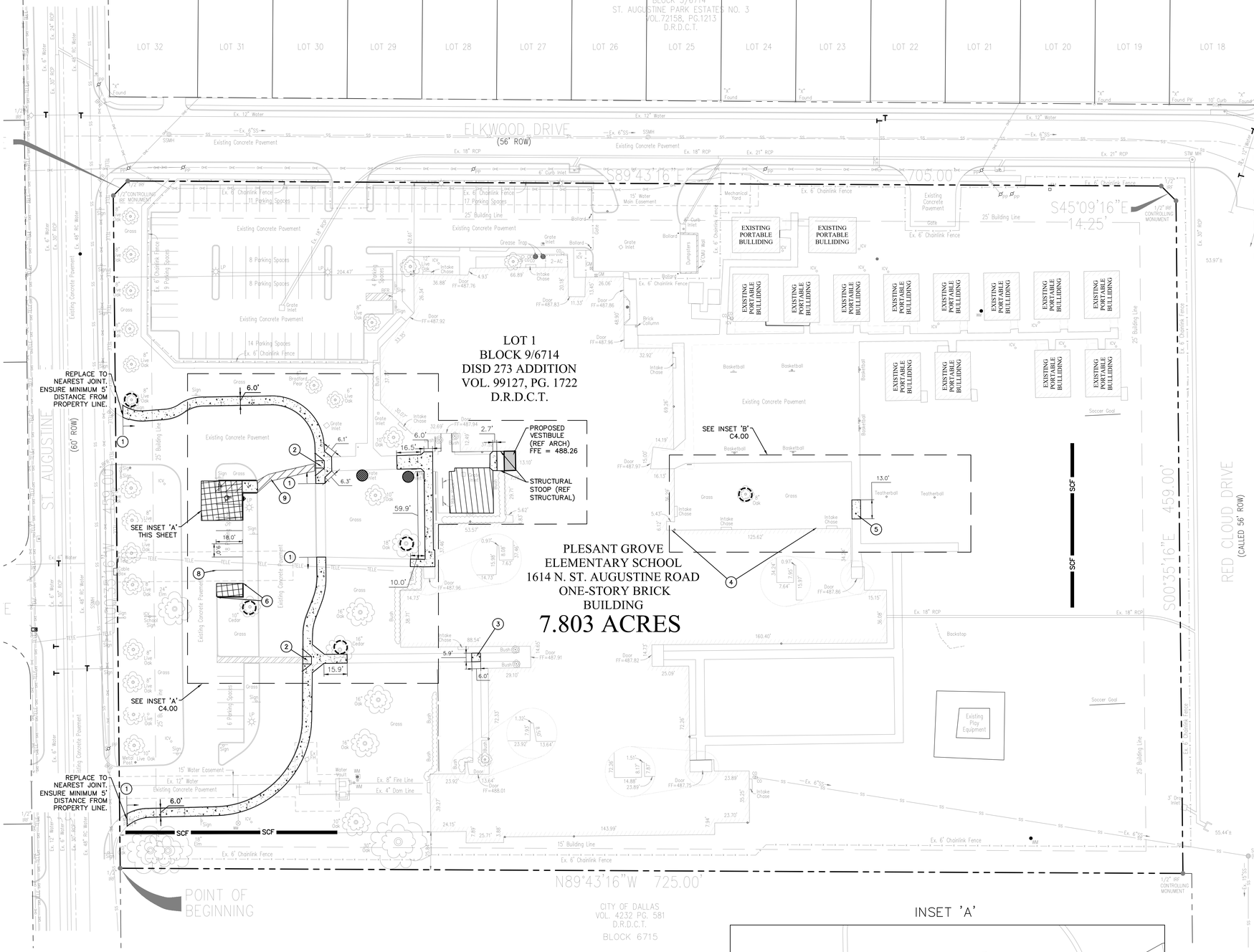
EXISTING CONDITIONS & DEMOLITION PLAN

DRAWING RECORD

DATE	DESCRIPTION

C2.00

PROJECT NO.: 2023208



Legend

- PROPOSED BUILDING
- EXISTING BUILDING
- 4" CONCRETE SIDEWALK
- 6" 3500 PSI CONCRETE PAVEMENT
- NEW SOD/ARTIFICIAL TURF/DG (PENDING DISD APPROVAL)
- PROPERTY BOUNDARY
- FULL DEPTH SAWCUT [APPROXIMATE LOCATION]
- SCF — SILT FENCE (REF C5.00)
- TREE PROTECTION (REF C5.00)
- INLET PROTECTION (REF C5.00)

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

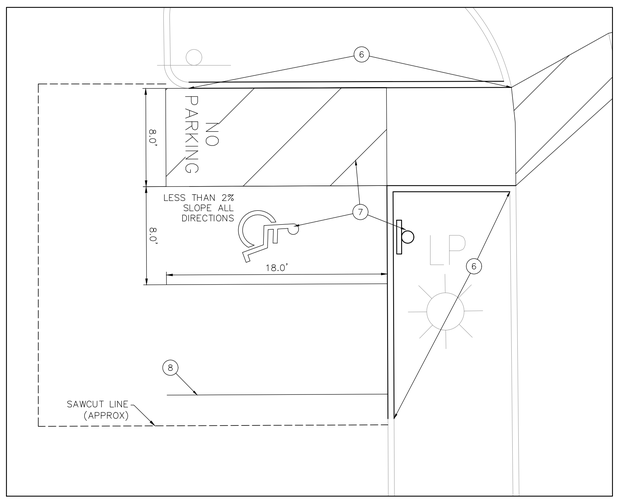
Keynotes

1. LIMITS OF CONCRETE SIDEWALK REMOVAL & REPLACEMENT. REPLACE SIDEWALK TO THE NEAREST JOINT. NO WORK IS TO TAKE PLACE WITHIN THE PUBLIC ROW.
2. REMOVE AND REPLACE ADA CURB RAMP (REF C5.00)
3. REMOVE AND REPLACE CONCRETE SIDEWALK PANEL

4. RE-GRADING ALONG BUILDING TO LIMIT PONDING. EXISTING BENCHES TO REMAIN.

5. SIDEWALK CHASE (REF C5.00)
6. LIMITS OF CURB (REF C5.01)
7. ADA/TAS PARKING SPACE, STRIPING, AND SIGNAGE (REF C5.01)
8. 4" WHITE STRIPING (TYP.)
9. YELLOW CROSSWALK STRIPING

INSET 'A'



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SITE PLAN

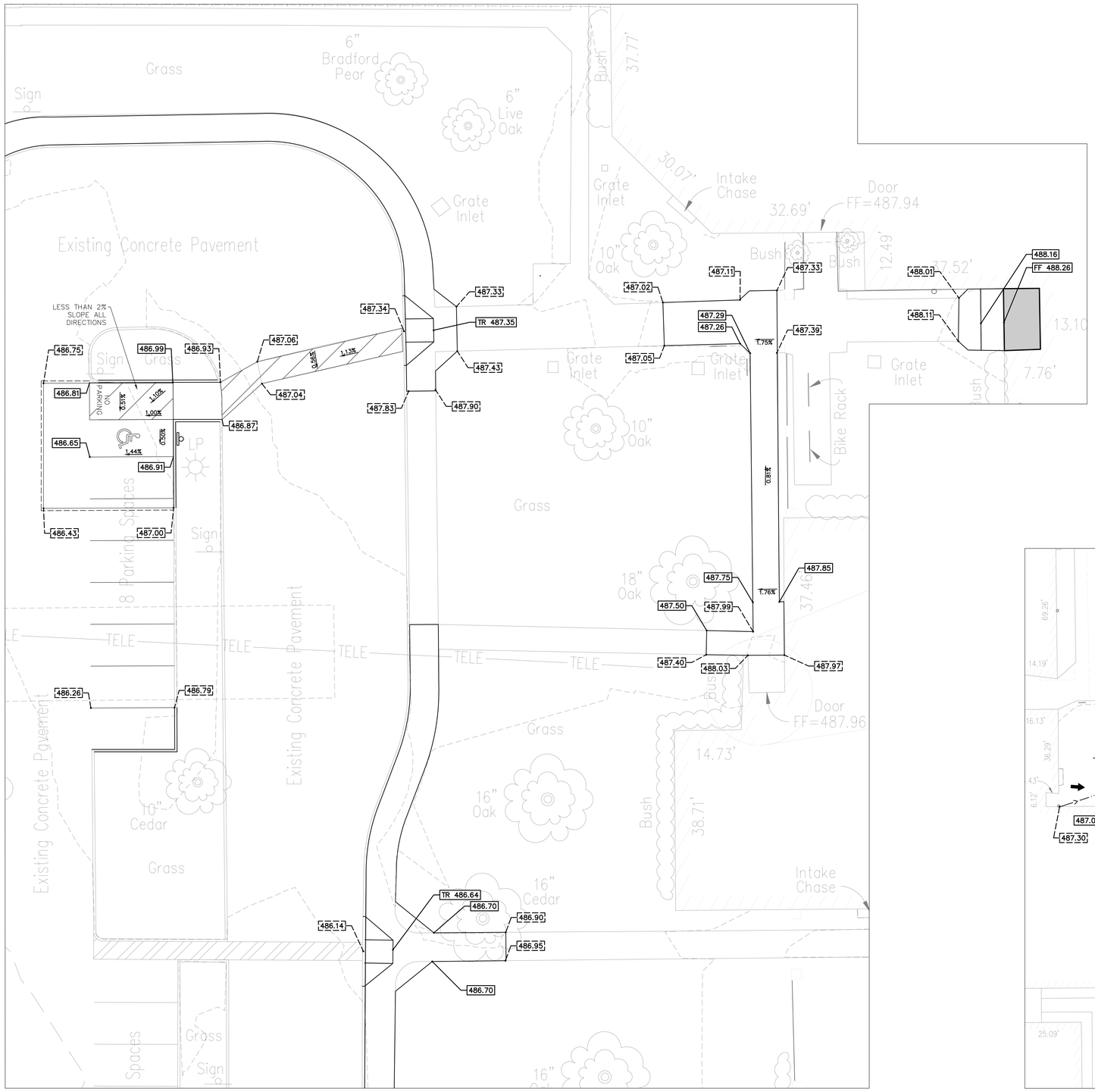
DRAWING RECORD	
DATE	DESCRIPTION

C3.00

PROJECT NO.: 2023208

Legend

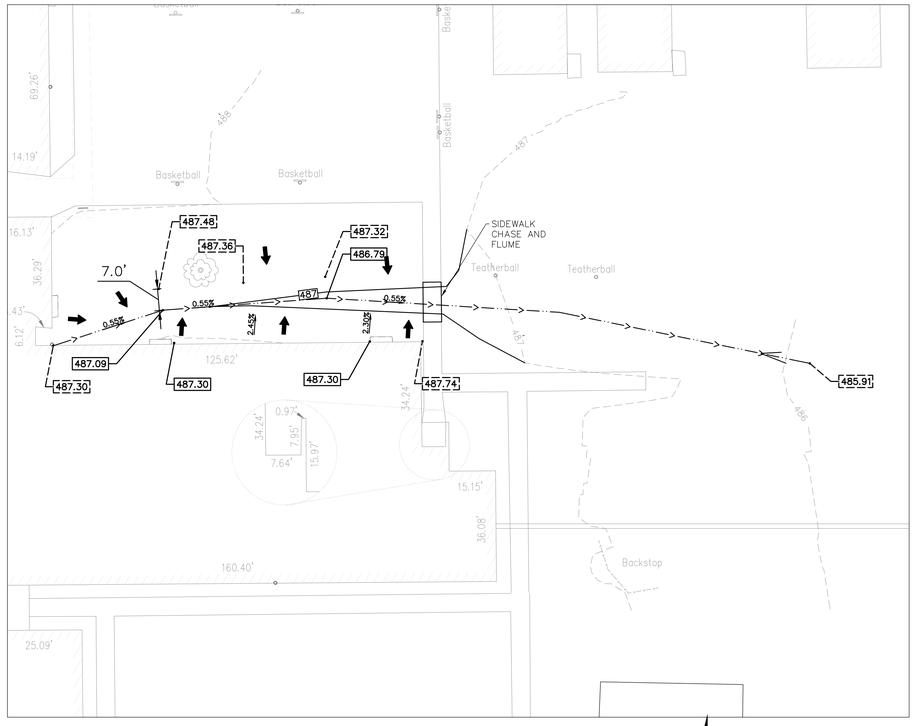
- EXISTING BUILDING
- PROPERTY BOUNDARY
- 478 — EXISTING CONTOUR AND ELEVATION
- 478 — PROPOSED CONTOUR AND ELEVATION
- 477.09 — MATCH EXISTING ELEVATION
- 477.09 — PROPOSED SPOT GRADE
- FULL DEPTH SAWCUT [APPROXIMATE LOCATION]



INSET 'A'
PARKING LOT/ADA ENTRANCE GRADING

N

GRAPHIC SCALE
0 10 20
(IN FEET)
1 inch = 10 ft.



INSET 'B'
REGRADING NORTHEAST
CORNER OF THE BUILDING

N

GRAPHIC SCALE
0 20 40
(IN FEET)
1 inch = 20 ft.

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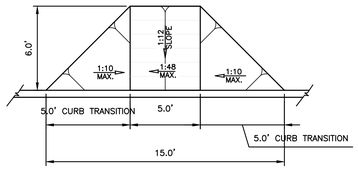
GRADING PLAN

DRAWING RECORD

DATE	DESCRIPTION

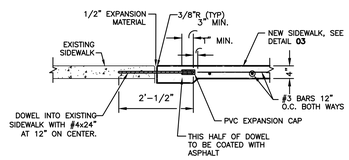
C4.00

PROJECT NO.: 2023208

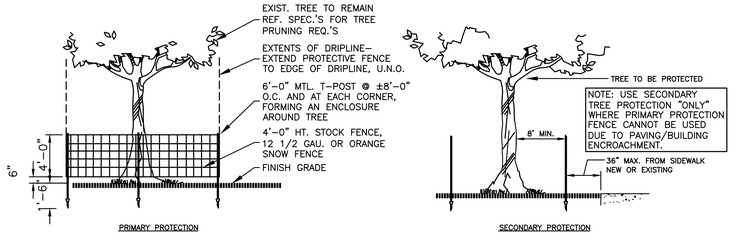


NOTE:
ALL RAMPS SHALL BE BROOM FINISHED. TRAVERSE TRACTION GROOVES 1/4" x 1/4" SHALL BE SAW CUT AT 2" CENTERS ALONG TRAVEL PATH. RAMP SHALL HAVE INTERGRAL CONTRASTING COLOR.

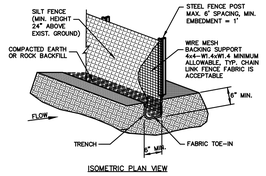
01 PEDESTRIAN RAMP DETAIL #2
N.T.S.



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



03 TREE PROTECTION
N.T.S.

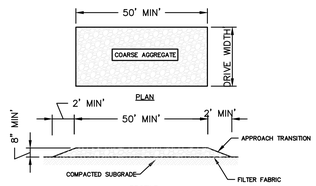


ISOMETRIC PLAN VIEW

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.

04 SILT FENCE INSTALLATION
N.T.S.

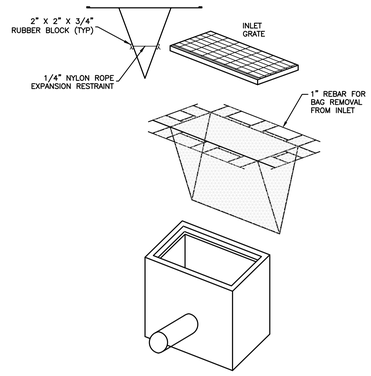


PROFILE

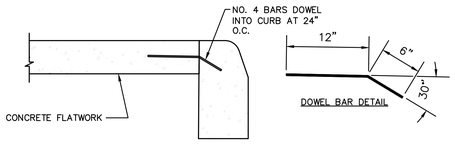
CONSTRUCTION ENTRANCE NOTES

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.

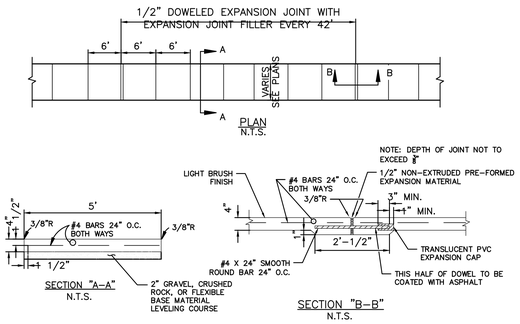
05 CONSTRUCTION ENTRANCE
N.T.S.



06 SILT SACK GRATE INLET PROTECTION DETAIL
N.T.S.

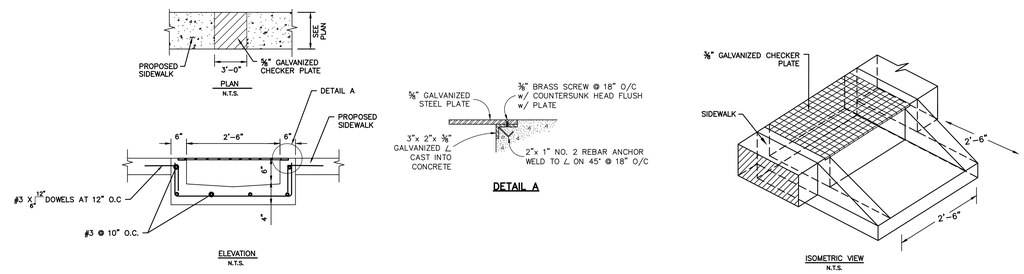


CONCRETE CURB/CONCRETE FLATWORK JUNCTION
N.T.S.



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.

07 REINFORCE CONCRETE SIDEWALK
N.T.S.



08 SIDEWALK CHASE DETAIL
N.T.S.

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111707
LICENSED ARCHITECT
PROFESSIONAL LICENSE

09.19.2024

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DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

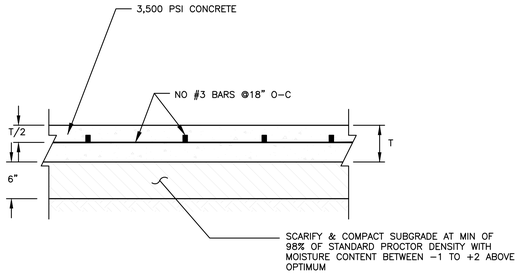
CIVIL DETAILS

DRAWING RECORD

DATE	DESCRIPTION

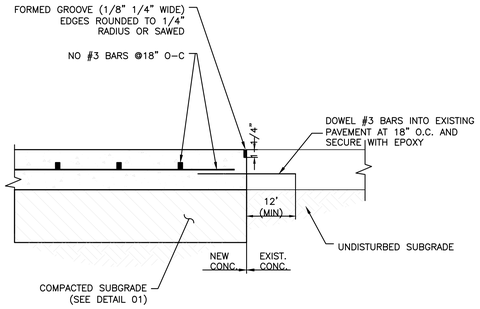
C5.00

PROJECT NO.: 2023208

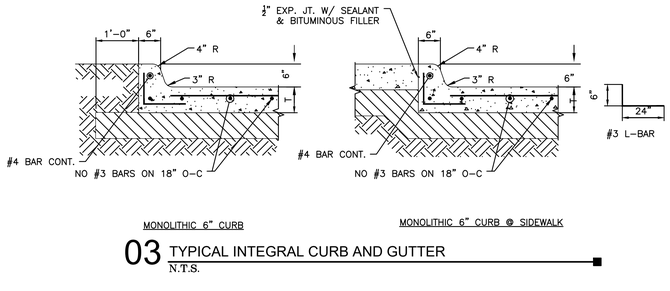


T= 6" FOR PARKING AREA

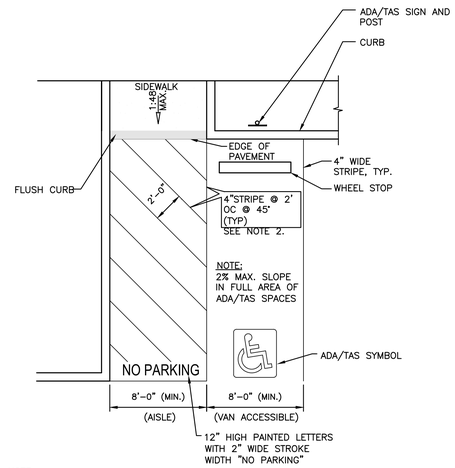
01 CONCRETE PAVEMENT SECTION
N.T.S.



02 CONCRETE PAVEMENT CONNECTION
N.T.S.

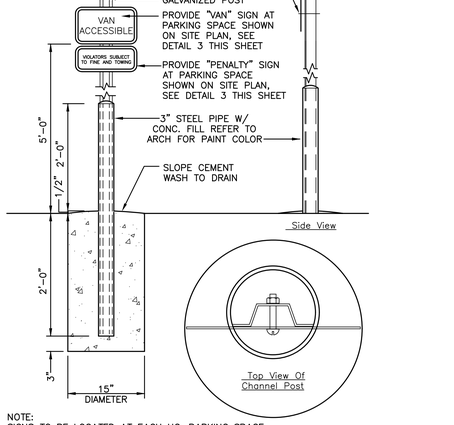


03 TYPICAL INTEGRAL CURB AND GUTTER
N.T.S.



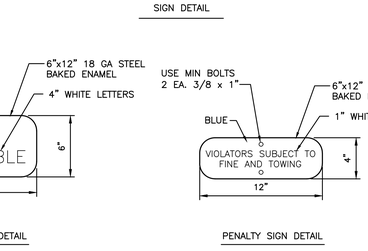
NOTE:
1. ALL WALKWAYS, RAMPS, HANDICAP PARKING SIGNAGE, ETC. SHALL MEET APPROVED ADA/TAS STANDARDS.
2. ALL STRIPING WITHIN ADA/TAS SPACES TO BE BLUE TRAFFIC PAINT.

04 TYPICAL ACCESSIBLE PARKING LAYOUT
N.T.S.

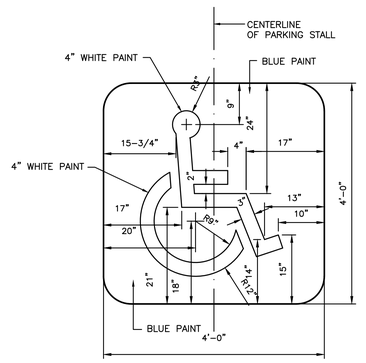


NOTE:
SIGNS TO BE LOCATED AT EACH HC. PARKING SPACE EMBLEM SIZE, COLOR AND EXACT LOCATION WITHIN PARKING SPACE TO COMFORM TO LOCAL GOVERNING CODES. SEE DETAIL 3/ THIS SHEET.

05 ACCESSIBLE PARKING SIGNAGE
N.T.S.



06 ADA/TAS SIGNAGE DETAIL
N.T.S.



07 PARKING SPACE ACCESSIBLE SYMBOL DETAIL
N.T.S.

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DISD PLEASANT GROVE ELEMENTARY
1614 N St Augustine Rd, Dallas, TX 75217

CIVIL DETAILS

DRAWING RECORD

DATE	DESCRIPTION

C5.01

PROJECT NO.: 2023208

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.
- CONTRACTOR TO REMOVE EXISTING CEILING TILE AND GRID AS REQUIRED FOR INSTALLATION OF NEW SECURITY SYSTEM, FIRE ALARM, LIGHTING SYSTEM, MECHANICAL SYSTEM, AND ASSOCIATED EQUIPMENT AND SCHEDULED WALL FINISH. CONTRACTOR RESPONSIBLE FOR REINSTALLATION OF CEILING TILE AND GRID AT COMPLETION OF CONSTRUCTION. CONTRACTOR RESPONSIBLE TO REPLACE ANY CEILING TILES DAMANGED DURING CONTRACTORS WORK WITH LIKE CEILING TILES.
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- GC TO REMOVE ALL ROOM NUMBER SIGNAGE, DOOR SIGNAGE, HANGING SIGNAGE AND PREPARE FOR NEW.
- GC TO PROTECT ALL EXISTING PIPES DURING DEMOLITION.

DEMO PLAN LEGEND

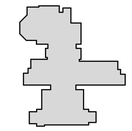
- EXIST. TO BE REMOVED OR RELOCATED
- EXIST. TO REMAIN
- NOT IN SCOPE

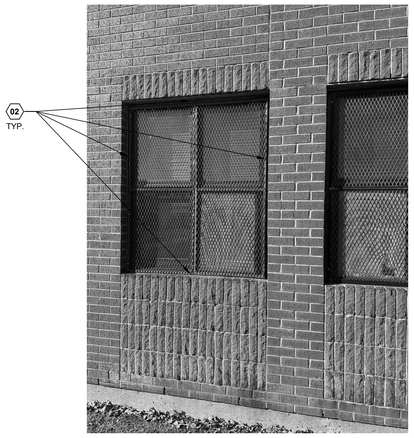
DEMO PLAN NOTES BY SYMBOL

01 GC TO REMOVE NOTED WATER FOUNTAIN, REFER TO MEP FOR DEMO.

02 REMOVE EXISTING SEALANT IN OPENINGS AND PREP. FOR NEW ONE, DIMENSIONS TO BE V.I.F.

KEY PLAN





3 IMAGE 02
Scale: 12" = 1'-0"

2 IMAGE 01
Scale: 12" = 1'-0"

TRUE NORTH PLAN NORTH

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

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REGISTERED ARCHITECT STATE OF TEXAS 09/18/2024

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Jacobs

ORG 273 DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

OVERALL DEMOLITION PLAN

DRAWING RECORD	
DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A0.01

PROJECT NO.: 2023208

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- GENERAL CONSTRACTOR TO PROTECT ALL EXISTING PIPES DURING DEMOLITION.
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- GC TO PROTECT ALL EXISTING PIPES DURING DEMOLITION.

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 SPRINKLER, 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.

ALTERNATE GENERAL PROJECT NOTES

- GENERAL CONTRACTOR TO REMOVE EXISTING PA SYSTEM AND ASSOCIATED EQUIPMENT. THIS INCLUDES CLOCKS, SPEAKERS, AND ANY ASSOCIATED CONDUIT CONNECTED TO EXISTING MAIN PA SYSTEM. PATCH AND REPAIR EXISTING WALLS TO LIKE NEW CONDITION. REFER MEP FOR ADDITIONAL DEMOLITION NOTES.

DEMO PLAN NOTES BY SYMBOL

01 DEMO WALL & PREP FOR STOREFRONT ASSEMBLY.

02 GC TO COORDINATE WITH OWNER ON TEMPORARY RELOCATION & CONNECTION OF EXISTING SECURITY DEVICES AT ENTRY AS NEEDED FOR PHASING INCLUDING BUT NOT LIMITED TO: ACCESS BUZZER, SECURITY CAMERA & REMOTE LOCKING DEVICES.

03 REMOVE & DISCARD EXISTING FLOOR FINISH, WALL BASE, WALL FINISHES, CEILING SYSTEM(S), & LIGHT FIXTURES. GC TO PREPARE SPACE FOR NEW FINISH INSTALL. GC TO COORDINATE WITH OWNER FOR REMOVAL & STORAGE OF EXISTING EQUIPMENT. MECHANICAL EQUIPMENT WILL NEED TO BE RELOCATED TO ACCOMODATE NEW LAYOUT OF SPACES.

04 EXISTING COLUMNS TO REMAIN, PROTECT DURING CONSTRUCTION.

05 PROTECT SHELVING DURING DEMOLITION.

06 REMOVE EXISTING MILLWORK & DISCARD.

07 GC TO REMOVE EXISTING DOOR & FRAME AND PREP FOR NEW.

08 GC TO REMOVE EXISTING STOREFRONT & CLERESTORY AND PREP FOR NEW.

09 PROTECT EXISTING WALL & FINISHES EDGE WHEN REMOVING SCHEDULED ADJACENT WALL.

10 REMOVE & DISCARD EXISTING WATER FOUNTAIN. PATCH & PAINT WALL, CAP EXISTING PLUMBING LINES.

11 GC TO REMOVE EXISTING DOOR AND SALVAGE. REFER TO OWNER FOR STORAGE

12 GC TO DEMOLISH EXISTING EXTERIOR WALL. REFER STRUCTURAL.

13 REMOVE WALL AS REQUIRED FOR INSTALLATION OF NEW DOOR.

14 REMOVE & DISCARD EXISTING FLOOR FINISH, WALL BASE, WALL FINISHES. GC TO PREPARE SPACE FOR NEW FINISH INSTALL.

15 PROTECT DURING CONSTRUCTION.

16 REMOVE EXISTING FIRE PANEL UNTIL NEW FIRE PANEL IS INSTALLED AND FUNCTIONING. PATCH & REPAIR WALL TO LIKE NEW CONDITION. REPAINT WALL FROM EDGE TO EDGE.

17 REMOVE EXISTING PANELS, CLOCKS, THERMOSTATS, AND ASSOCIATED EQUIPMENT AND CONDUITS. PATCH & REPAIR WALL TO LIKE NEW CONDITION. REPAINT WALL FROM EDGE TO EDGE.

DEMO RCP NOTES BY SYMBOL

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

19 REMOVE AND REPLACE LIGHT FIXTURES AND LAY-IN CEILING.

20 REMOVE PORTION OF EXISTING EXTERIOR GYP. SOFFIT. PROTECT EXISTING STRUCTURAL CANOPY DURING REMOVAL. PREP FOR NEW EXTERIOR CONSTRUCTION.

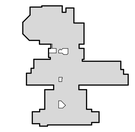
DEMO PLAN LEGEND

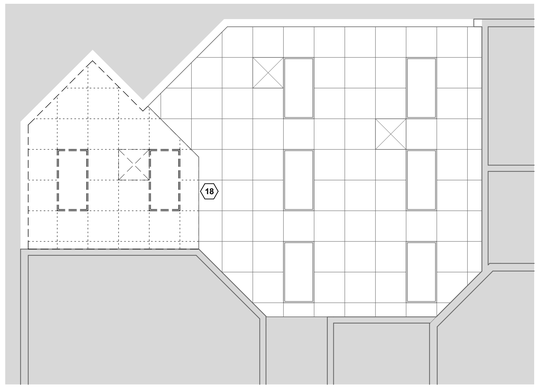
- EXIST. TO BE REMOVED OR RELOCATED
- EXIST. TO REMAIN
- NOT IN SCOPE

DEMO CEILING PLAN LEGEND

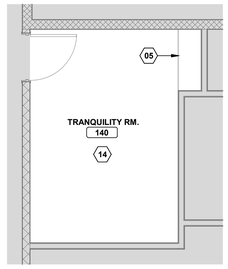
- 2'x4' RECESSED FLUORESCENT FIXTURE TO BE REMOVED & SALVAGED FOR REUSE. REFER TO OWNER FOR STORAGE LOCATION.
- EXISTING 2'X2' ACOUSTICAL LAY-IN CEILING TO REMAIN.
- NOT IN SCOPE

KEY PLAN

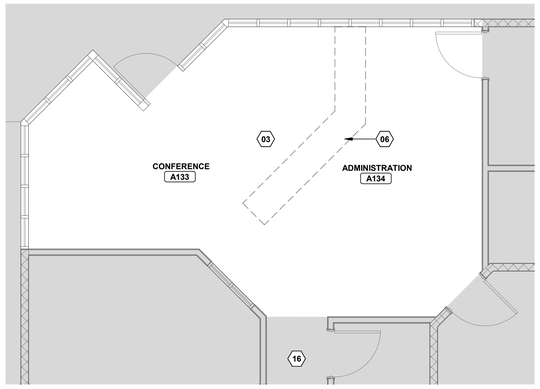




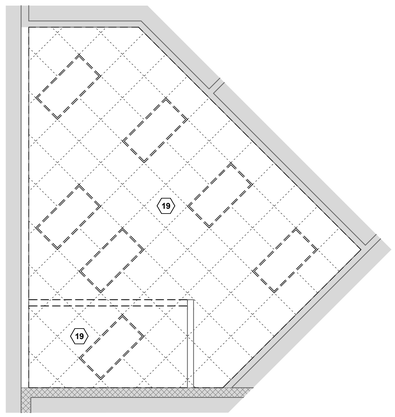
6 ENLARGED RCP - ADMIN
Scale: 1/4" = 1'-0"
PLAN NORTH



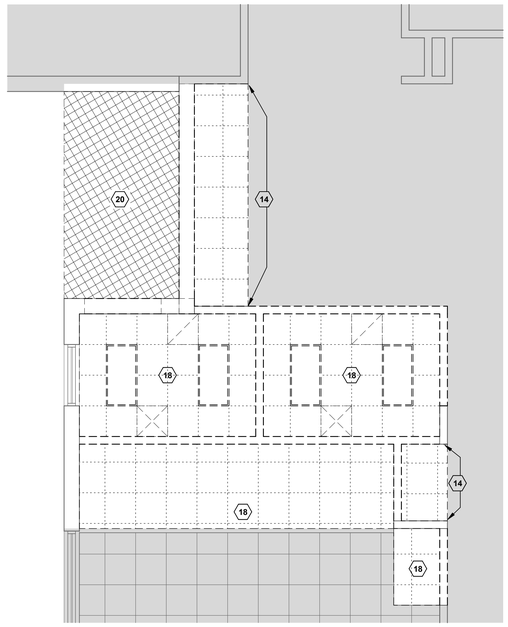
4 ENLARGED DEMO PLAN - TRANQUILITY RM
Scale: 1/4" = 1'-0"
PLAN NORTH



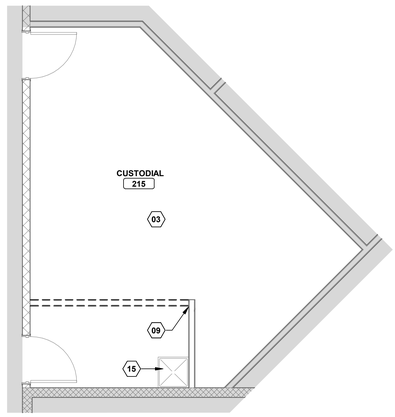
2 ENLARGED DEMO PLAN - ADMIN
Scale: 1/4" = 1'-0"
PLAN NORTH



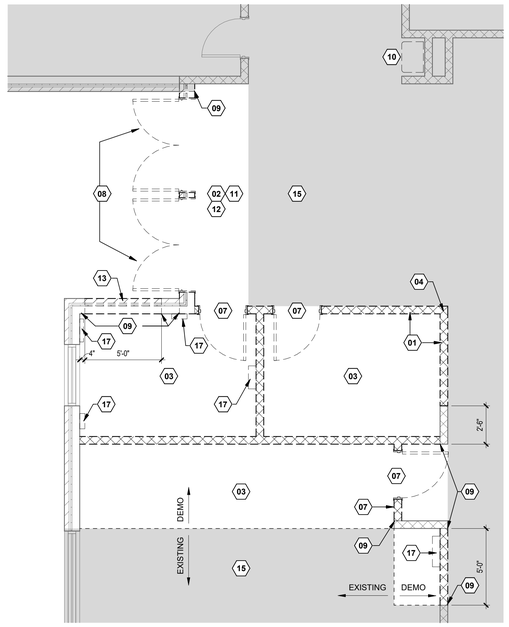
7 ENLARGED RCP - CUSTODIAL
Scale: 1/4" = 1'-0"
PLAN NORTH



5 ENLARGED RCP - VESTIBULE
Scale: 1/4" = 1'-0"
PLAN NORTH



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



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

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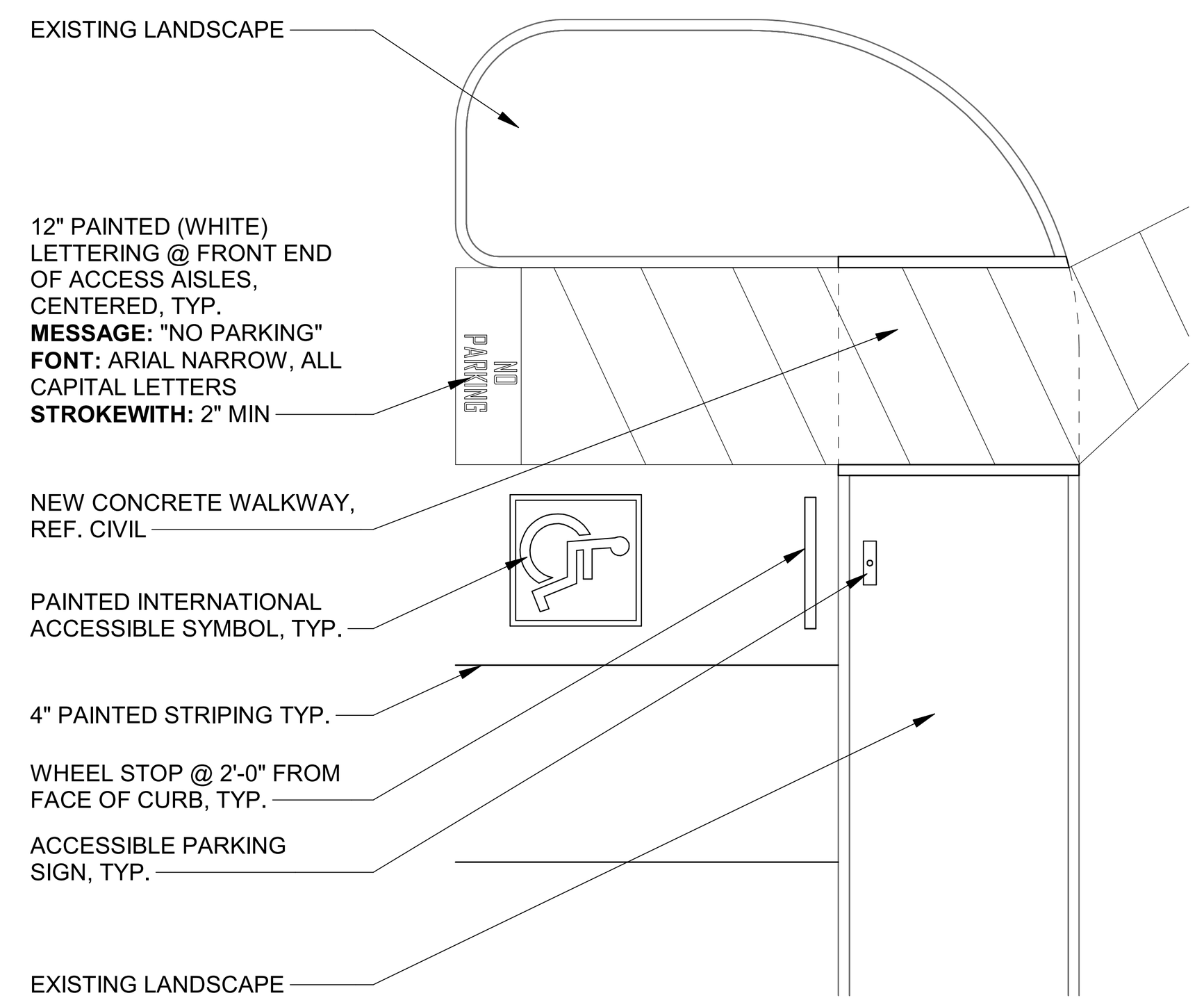
ENLARGED DEMOLITION PLANS & DEMOLITION RCPS

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A0.02

PROJECT NO.: 2023208



PLAN NORTH

2 HANDICAP PARKING

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

SITE DATA SUMMARY

CURRENT USE:	PUBLIC SCHOOL
CURRENT TOTAL LOT AREA:	9.93 ACRES (432,613 SQUARE FEET)
CURRENT FLOOR AREA:	83,663 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:	71,149 SQUARE FEET
PROPOSED FOOTPRINT AREA:	1,827 SQUARE FEET
TOTAL FOOTPRINT AREA:	XXXXX SQUARE FEET
CURRENT FLOOR AREA:	81,836 SQUARE FEET
PROPOSED FLOOR AREA:	1,827 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 SPRINKLER, 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.

ALTERNATE GENERAL PROJECT NOTES

- GENERAL CONTRACTOR TO REMOVE EXISTING PA SYSTEM AND ASSOCIATED EQUIPMENT. THIS INCLUDES CLOCKS, SPEAKERS, AND ANY ASSOCIATED CONDUIT CONNECTED TO EXISTING MAIN PA SYSTEM. PATCH AND REPAIR EXISTING WALLS TO LIKE NEW CONDITION. REFER MEP FOR ADDITIONAL DEMOLITION NOTES.

SITE PLAN LEGEND

EXISTING BUILDING

BUILDING ADDITION

NEW SIDEWALK

SITE PLAN NOTES BY SYMBOL

01 REMOVE AND REPLACE SIDEWALK. REFER TO CIVIL.

02 PROVIDE NEW IRRIGATION PANEL.

03 REGRADING FOR PONDING, REFER TO CIVIL.

04 REMOVE & REPLACE WITH NEW MARQUEE SIGN.

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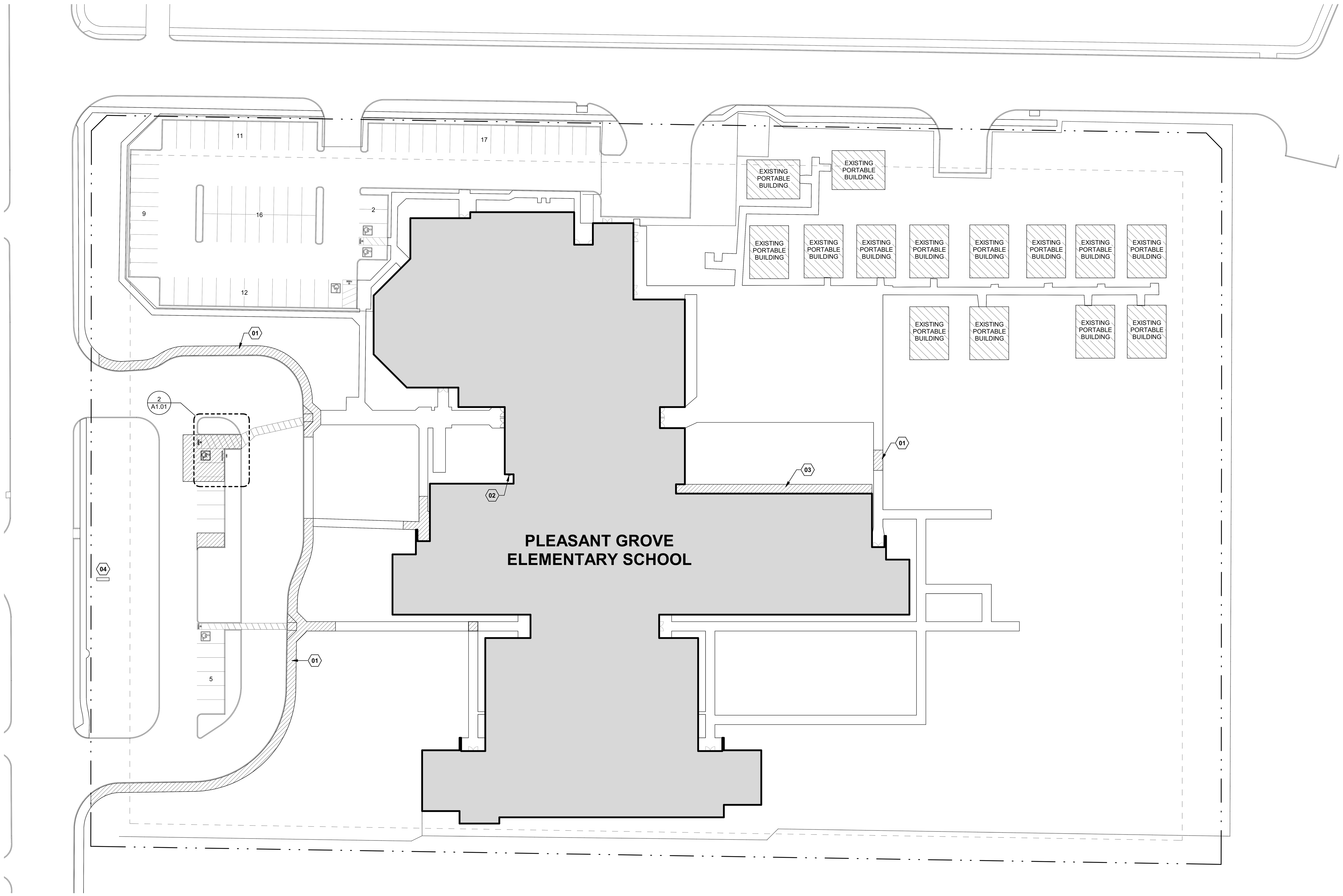


TRUE NORTH PLAN NORTH

1 OVERALL SITE PLAN

Scale: 1" = 30'-0"

SITE PLAN

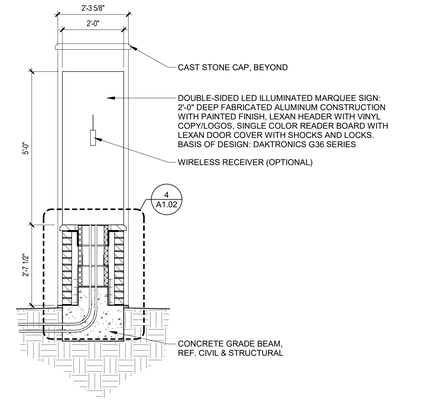
DRAWING RECORD	
DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A1.01

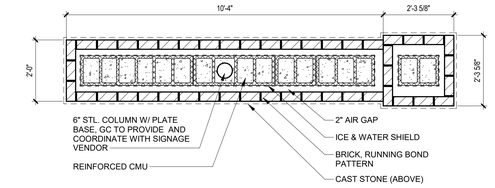
PROJECT NO.: 2023208

MARQUEE SIGNAGE NOTES

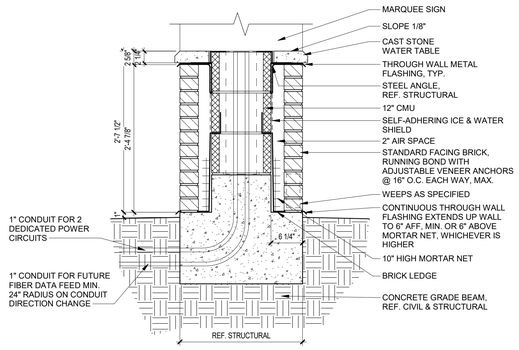
1. REFER TO MEP FOR ALL ELECTRICAL AND DATA REQUIREMENTS.



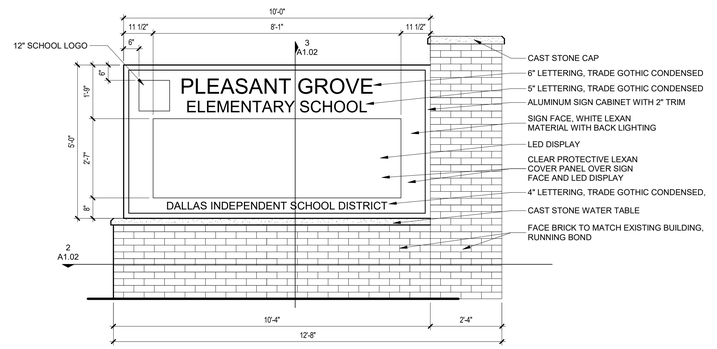
3 MARQUEE SIGNAGE SECTION
Scale: 1/2" = 1'-0"



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



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



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

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MARQUEE SIGNAGE

DRAWING RECORD

DATE	DESCRIPTION
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A1.02

PROJECT NO.: 2023208

ALTERNATE GENERAL PROJECT NOTES

- GENERAL CONTRACTOR TO PROVIDE AND INSTALL NEW PA SYSTEM. REFER MEP SHOWING NEW LOCATIONS IN ALL ADMINISTRATION OFFICES AND CLASSROOMS.

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 SPRINKLER, 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.
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FLOOR PLAN LEGEND

(double line)	EXIST. TO REMAIN
(double line)	NEW CONSTRUCTION
XXXX	PARTITION TYPE SYMBOL
CR	CARD READER
(dashed circle / square)	60" CLEAR FLOOR SPACE
(dashed rectangle)	30" X 48" CLEAR FLOOR SPACE
(grey square)	NOT IN SCOPE

PLAN NOTES BY SYMBOL

01 REMOVE AND REPLACE ALL EXISTING SEALANT AND BACKER RODS WITH NEW BACKER ROD AND SEALANT. COLOR TO BE SELECTED FROM STANDARD COLOR OPTIONS.

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

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KEY PLAN

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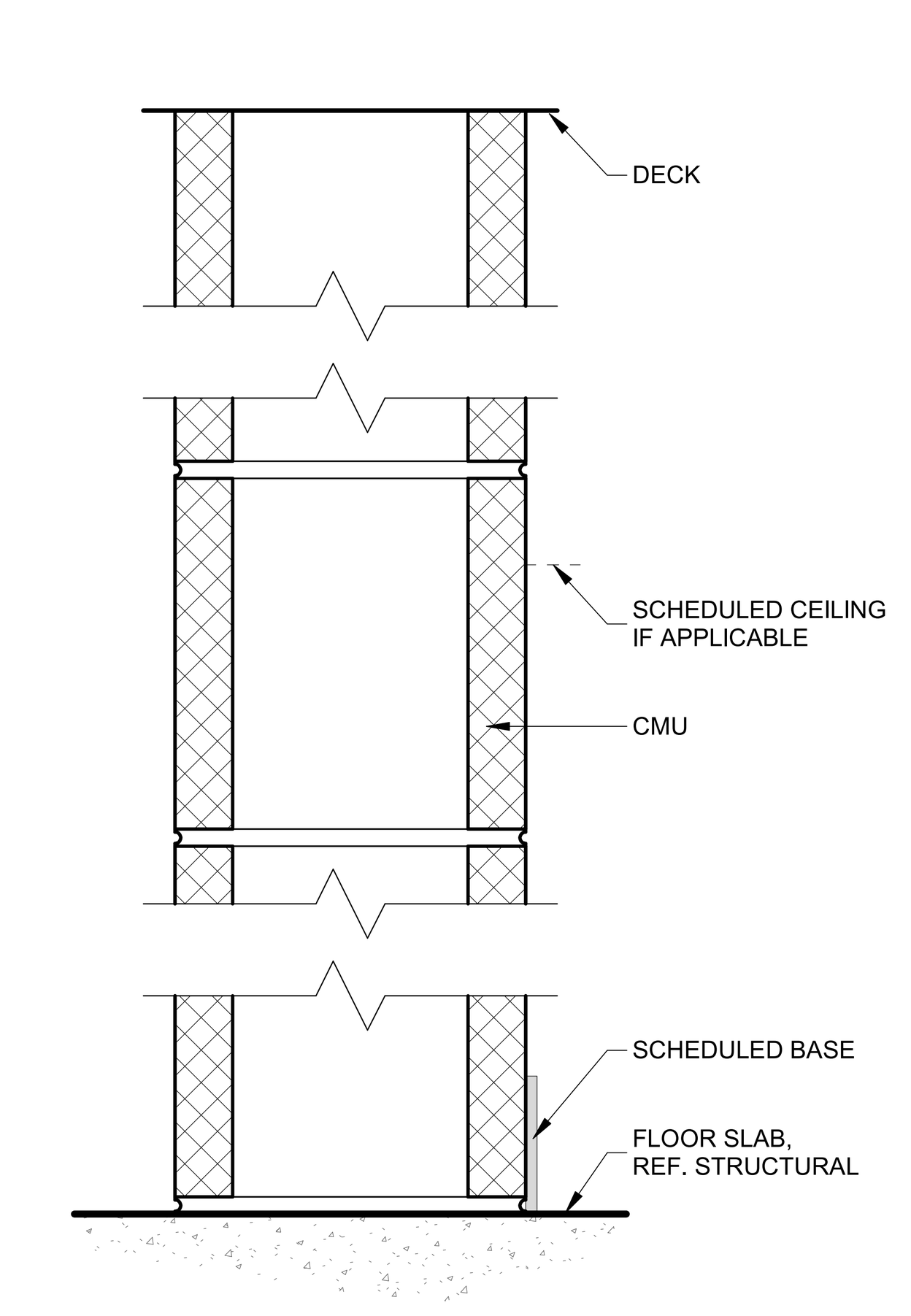
OVERALL FLOOR PLAN

DRAWING RECORD

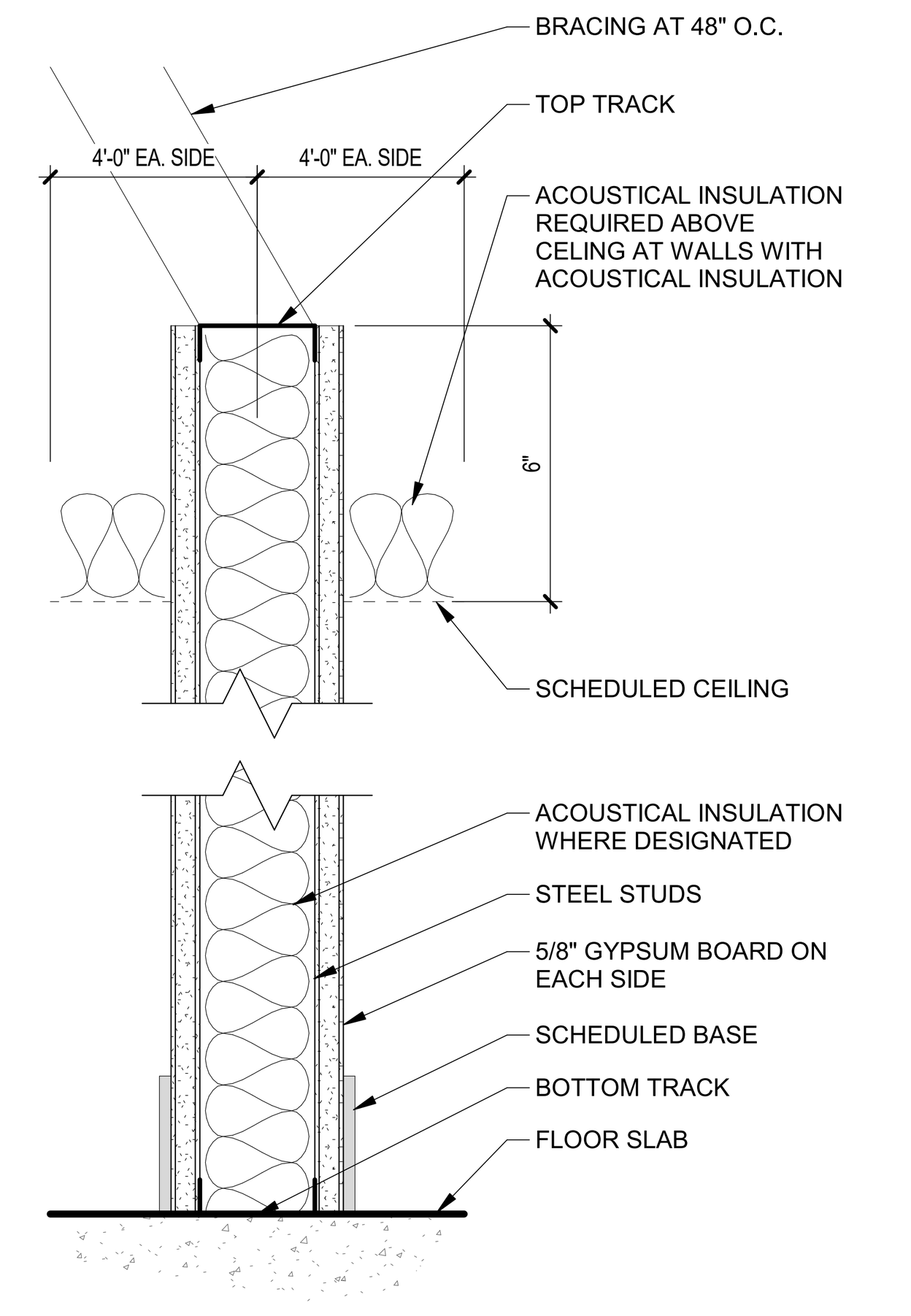
DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A2.01

PROJECT NO.: 2023208



TYPE Q



TYPE B

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.

PARTITION TYPES

GENERAL PROJECT NOTES

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ALTERNATE GENERAL PROJECT NOTES

- GENERAL CONTRACTOR TO PROVIDE AND INSTALL NEW PA SYSTEM. REFER MEP SHOWING NEW LOCATIONS IN ALL ADMINISTRATION OFFICES AND CLASSROOMS.

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 & 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.

PLAN NOTES BY SYMBOL

01 PROVIDE & INSTALL NEW WATER FOUNTAIN WITH BOTTLE FILLER. REFER TO MEP FOR SPECIFICATIONS.
02 INFILL CMU WALL WITH MATCHING CMU AND TOOTH IN TO MATCH COURSING.
03 EXISTING STRUCTURAL COLUMN. VERIFY IN FIELD.
04 NEW FIRE PANEL & ASSOCIATED EQUIPMENT LOCATION, SEMI-RECESSED INTO WALL. REFER TO MEP.
05 EXISTING MAILBOX TO BE RELOCATED IN ADMINISTRATION, CENTERED TO WALL.
06 EXISTING TO REMAIN. PREP FOR NEW FINISHES. REFER TO A3.01.

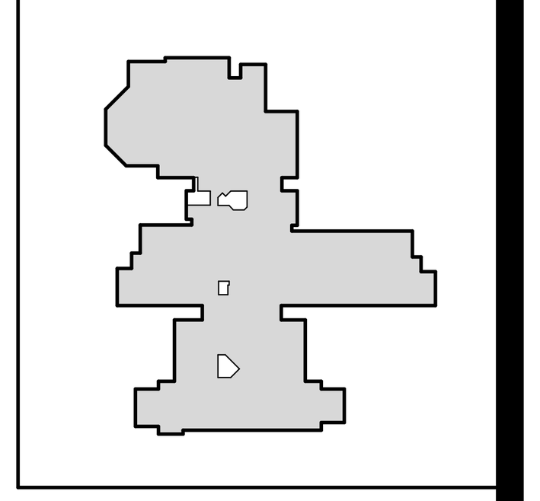
FLOOR PLAN LEGEND

EXIST. TO REMAIN
NEW CONSTRUCTION
(XXXX) PARTITION TYPE SYMBOL
CR CARD READER
60" CLEAR FLOOR SPACE
30" X 48" CLEAR FLOOR SPACE
EQUIPMENT & ACCESSORY TAG
WINDOW TAG
NOT IN SCOPE

REFLECTED CEILING PLAN LEGEND

RECESSED DOWNLIGHT
EXIT SIGNAGE
2'X2' RECESSED 'LED' FIXTURE
2'X4' RECESSED 'LED' FIXTURE
2'X2' ACOUSTICAL LAY-IN CEILING
PAINTED GYPSUM BOARD CEILING

KEY PLAN



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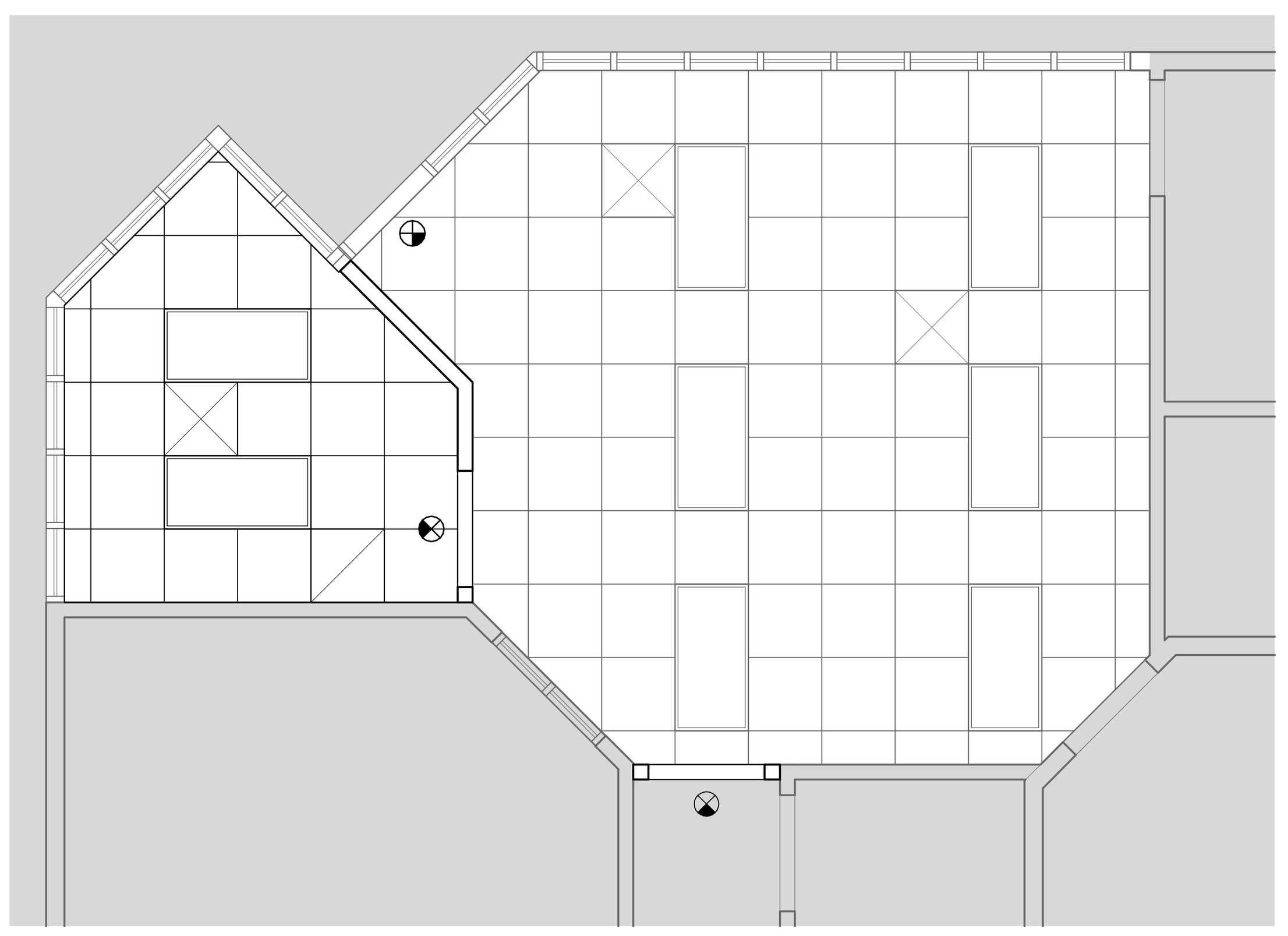
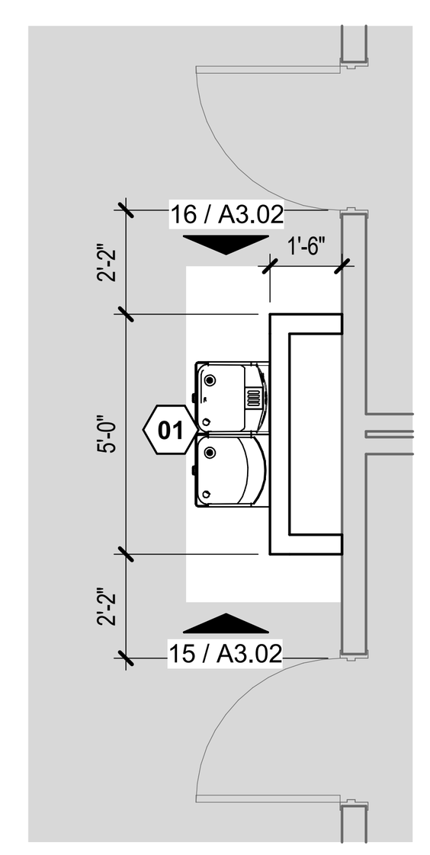
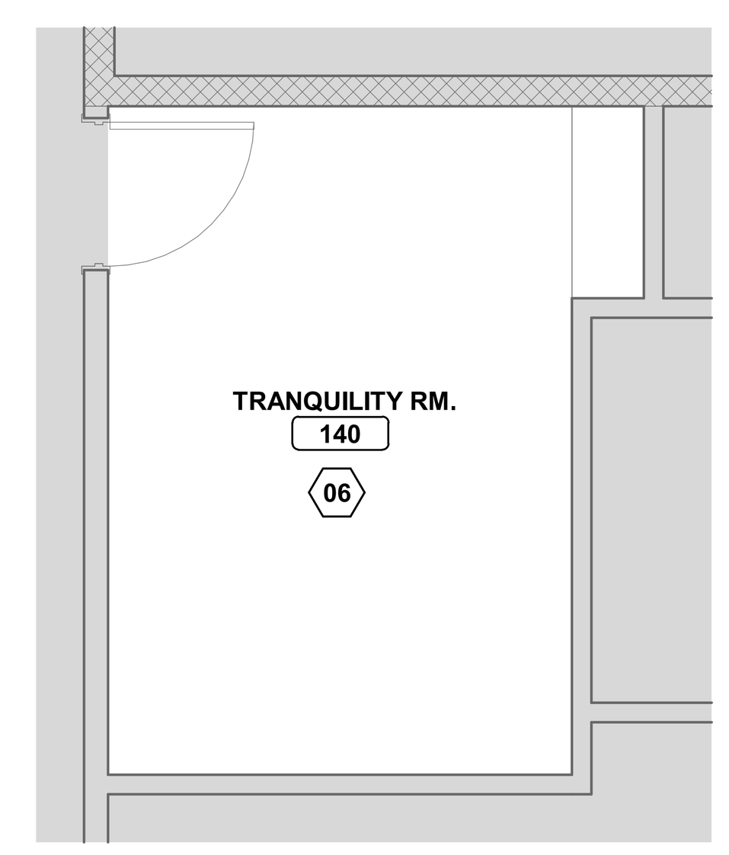


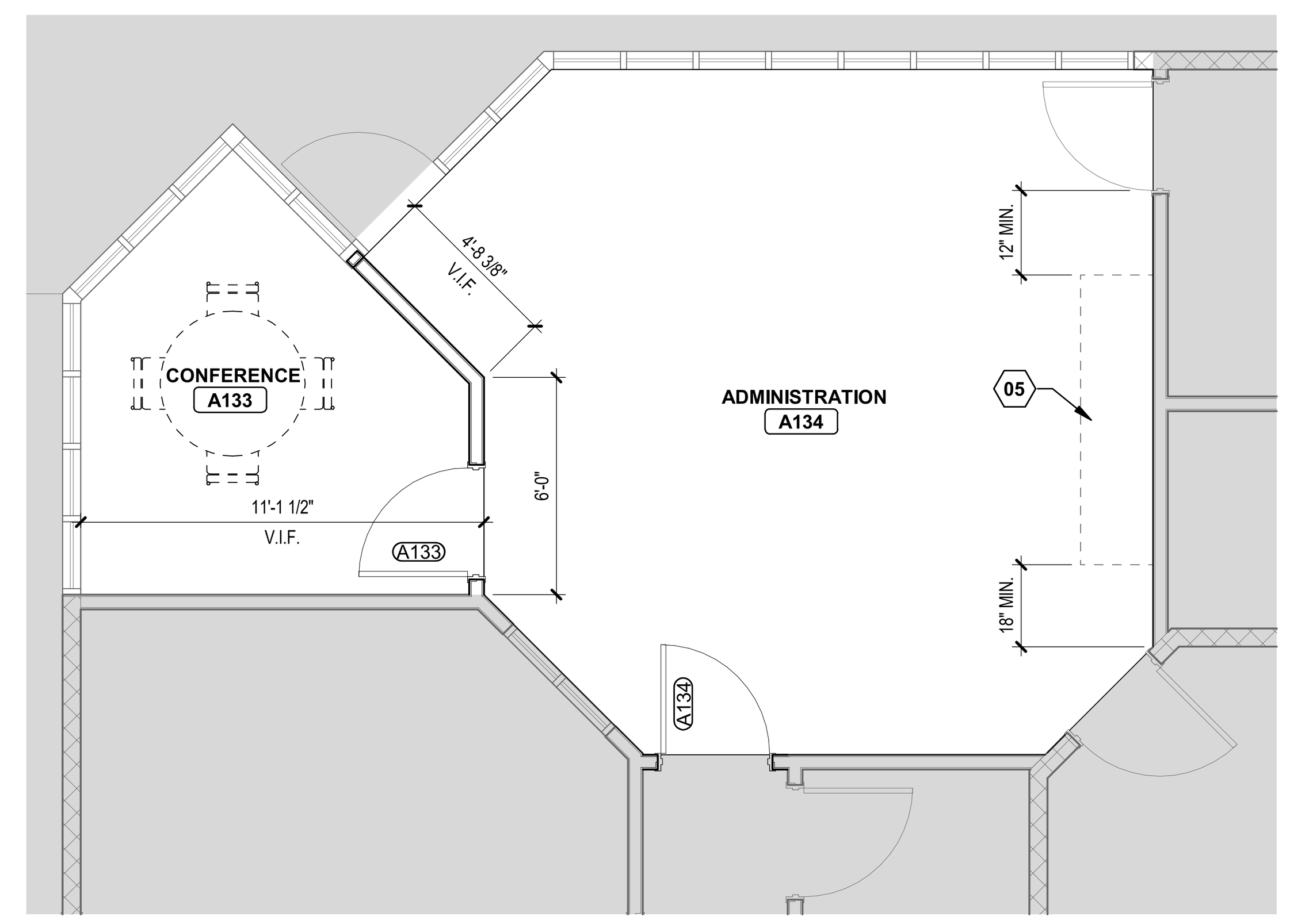
7 ENLARGED RCP - ADMIN
Scale: 1/4" = 1'-0"
TRUE NORTH PLAN NORTH



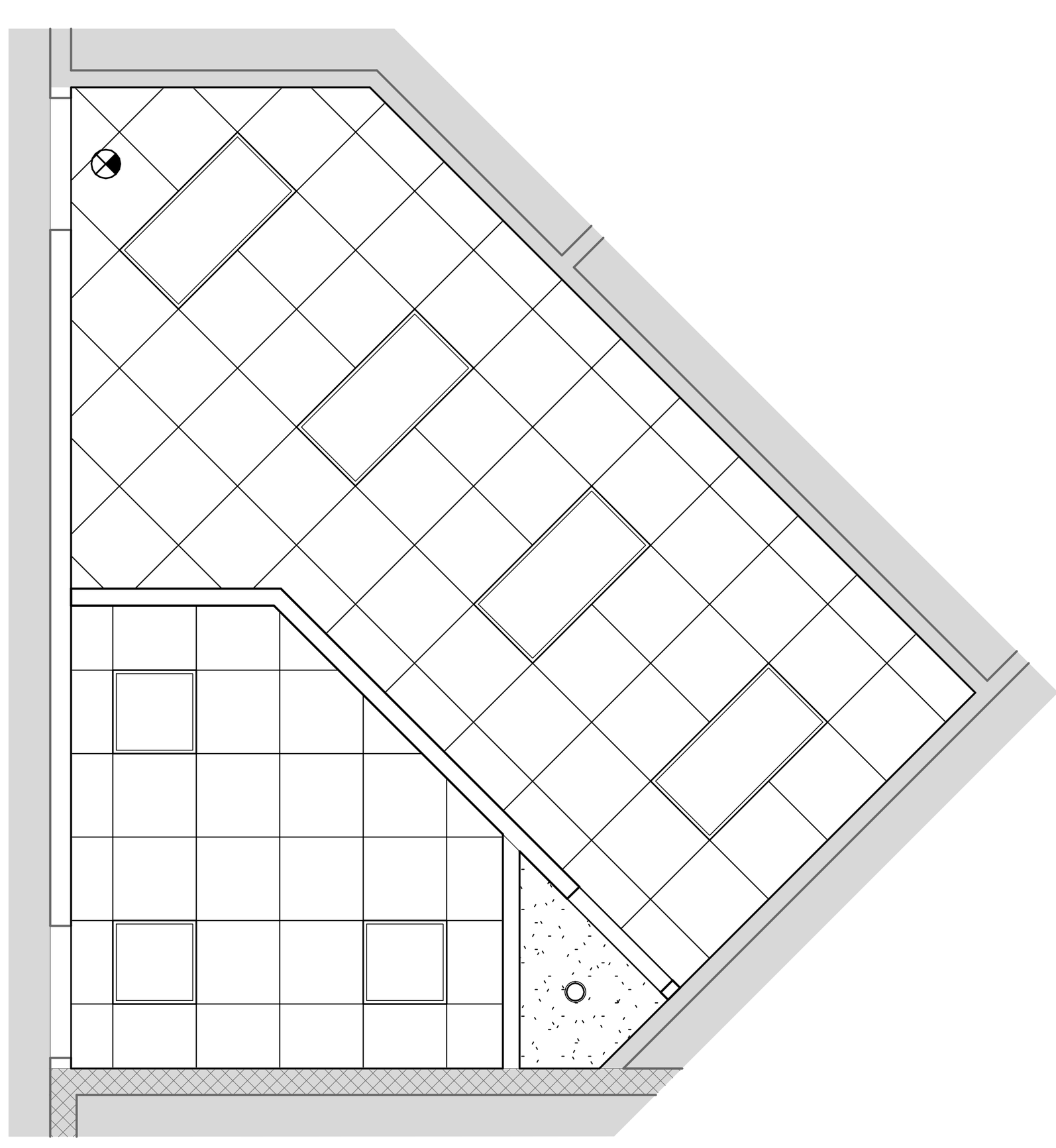
5 WATER FOUNTAIN
Scale: 1/4" = 1'-0"
TRUE NORTH PLAN NORTH



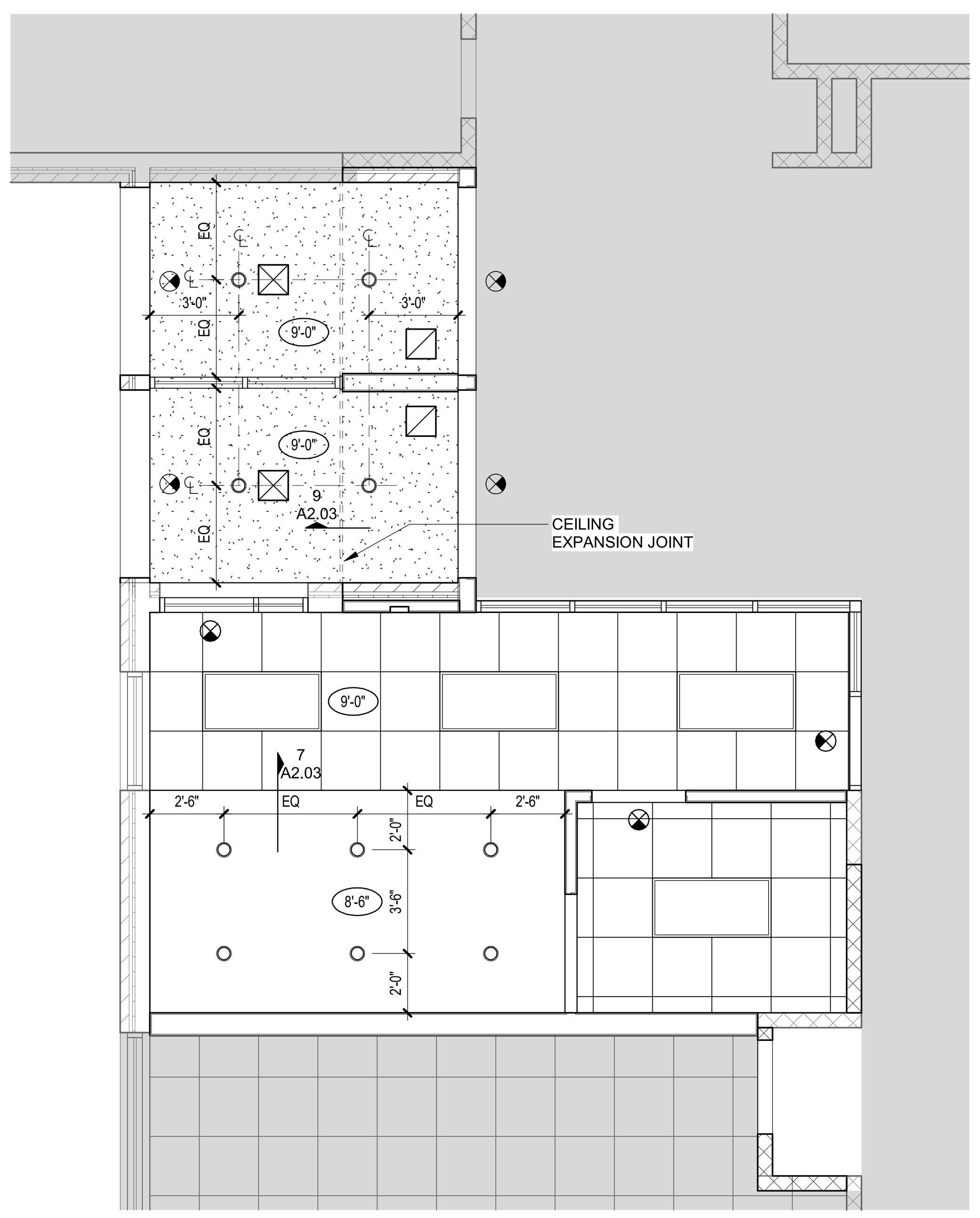
4 ENLARGED PLAN - TRANQUILITY
Scale: 1/4" = 1'-0"
TRUE NORTH PLAN NORTH



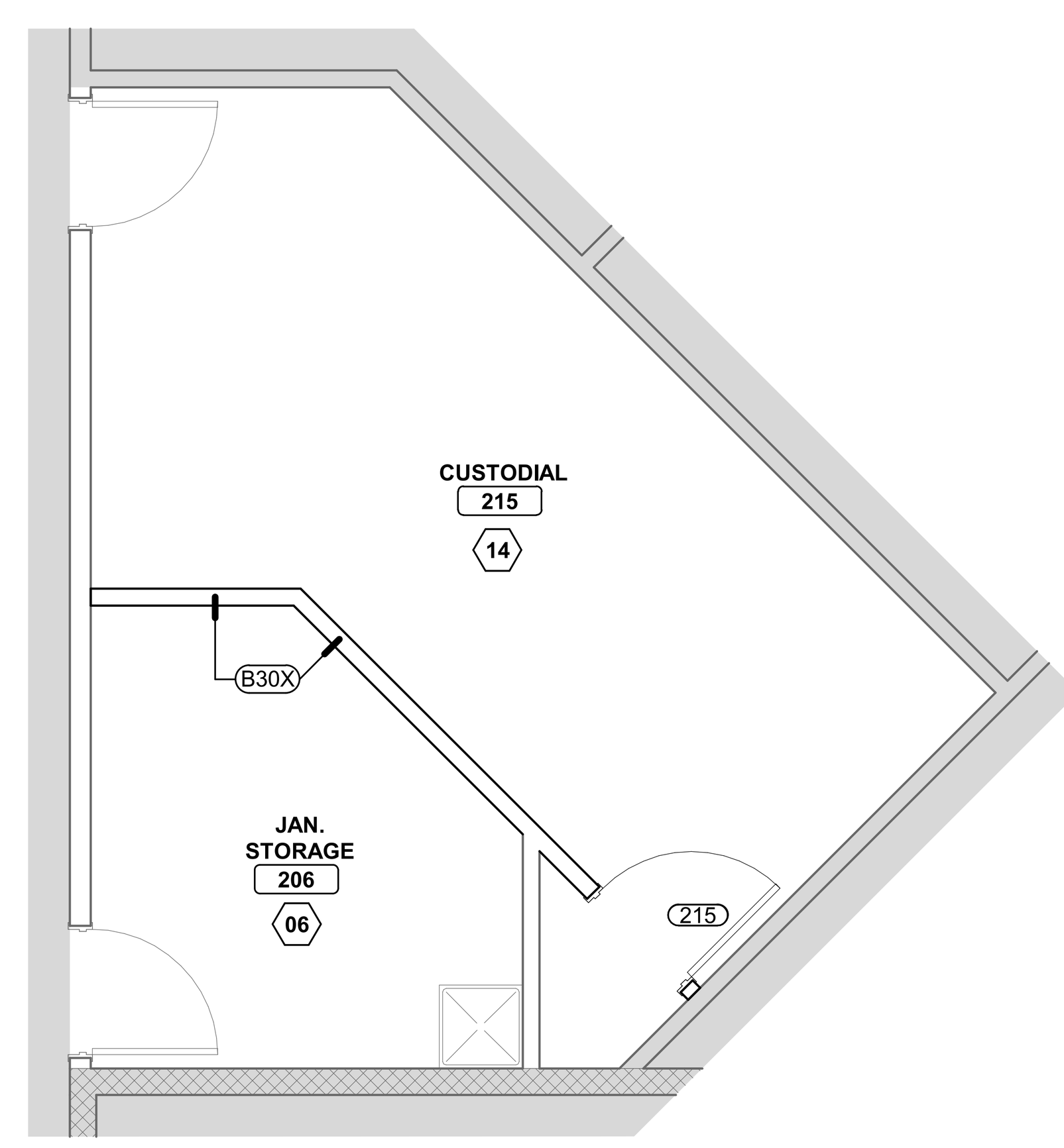
2 ENLARGED PLAN - ADMIN
Scale: 1/4" = 1'-0"
TRUE NORTH PLAN NORTH



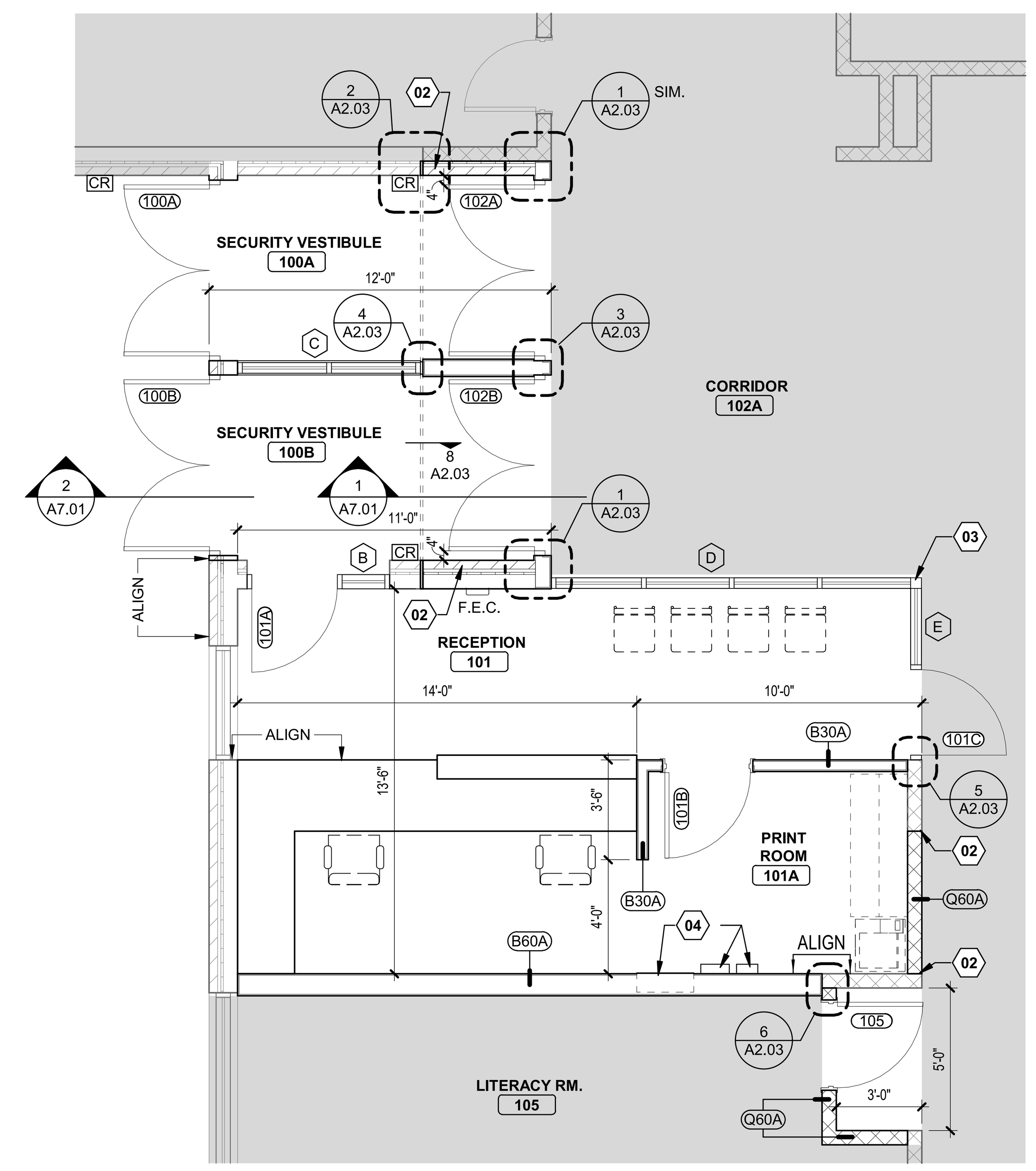
8 ENLARGED RCP - CUSTODIAL
Scale: 1/4" = 1'-0"
TRUE NORTH PLAN NORTH



6 ENLARGED RCP - VESTIBULE
Scale: 1/4" = 1'-0"
TRUE NORTH PLAN NORTH



3 ENLARGED PLAN - CUSTODIAL
Scale: 1/4" = 1'-0"
TRUE NORTH PLAN NORTH



1 ENLARGED PLAN - VESTIBULE
Scale: 1/4" = 1'-0"
TRUE NORTH PLAN NORTH

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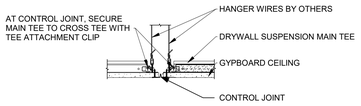
ENLARGED PLANS & RCPS

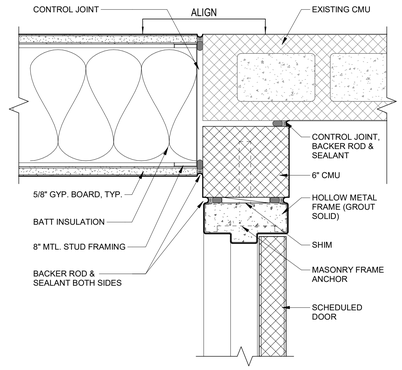
DRAWING RECORD	
DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A2.02

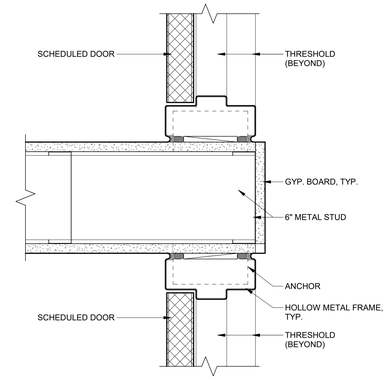
PROJECT NO.: 2023208



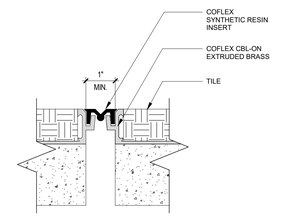
9 EXPANSION JOINT @ GYP. CEILING
Scale: 1 1/2" = 1'-0"



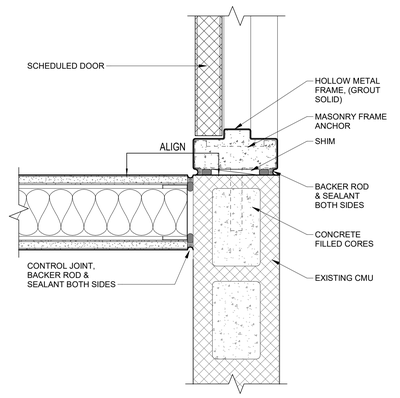
6 PLAN DETAIL @ VESTIBULE ENTRANCE
Scale: 3" = 1'-0"



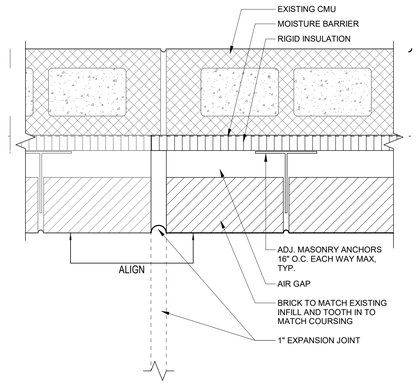
3 PLAN DETAIL @ VESTIBULE ENTRANCE
Scale: 3" = 1'-0"



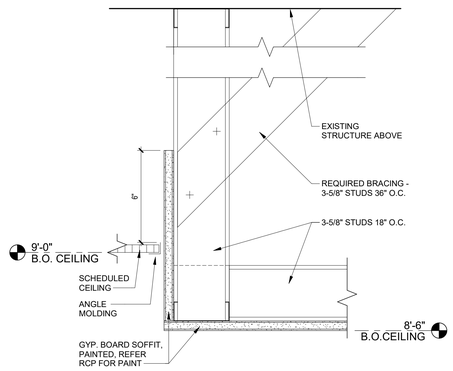
8 EXPANSION JOINT AT TILE FLOORING
Scale: 6" = 1'-0"



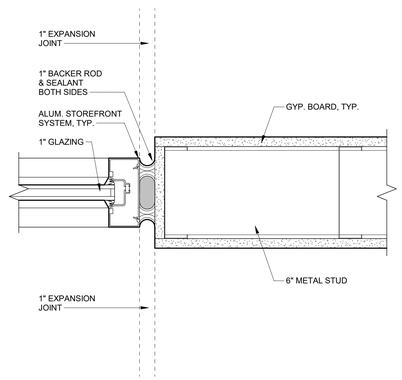
5 PLAN DETAIL @ VESTIBULE ENTRANCE
Scale: 3" = 1'-0"



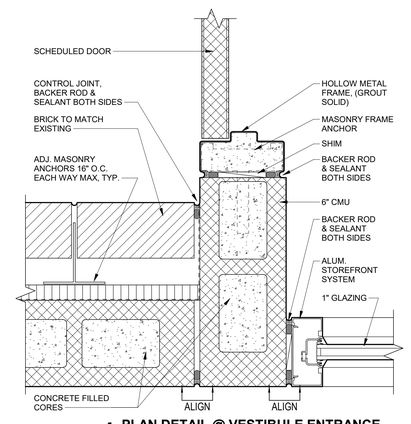
2 PLAN DETAIL @ VESTIBULE ENTRANCE
Scale: 3" = 1'-0"



7 CEILING FURR DOWN DETAIL
Scale: 3" = 1'-0"



4 PLAN DETAIL @ VESTIBULE ENTRANCE
Scale: 3" = 1'-0"



1 PLAN DETAIL @ VESTIBULE ENTRANCE
Scale: 3" = 1'-0"

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PLAN AND CEILING DETAILS

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A2.03

PROJECT NO.: 2023208

GENERAL - PATCHING & AESTHETIC CONSIDERATIONS

• IF THERE ARE MORE THAN TWO PATCHES, OF ANY SIZE, REQUIRED ANYWHERE ON THE ROLL LENGTH OR WIDTH, THE ENTIRE ROLL LENGTH AND WIDTH WILL BE REQUIRED TO BE REPLACED. THE REPLACEMENT SECTION WILL BE REQUIRED TO MEET THE STANDARD PER MANUFACTURER'S RECOMMENDATIONS

• IF THERE ARE TWO PATCHES WITHIN THE ROLL LENGTH OR WIDTH AND THEY ARE WITHIN REASONABLY CLOSE PROXIMITY TO EACH OTHER THAT ARE TO BE PATCHED AS ONE LARGE PATCH AS OPPOSED TO TWO SMALLER PATCHES. THE REPLACEMENT SECTION WILL BE REQUIRED TO MEET THE STANDARD PER MANUFACTURER'S RECOMMENDATIONS

GENERAL ROOF PLAN NOTES

1. CLEAN, PRIME AND PAINT ALL EXPOSED GAS PIPING

2. REPLACE EXIST. FLEXIBLE CONDUIT W/ RIGID CONDUIT OF EQUIVALENT SIZE. WORK TO INCLUDE ALL NECESSARY EXTENTIONS OF WIRING W/ SUCH WIRING BEING INSTALLED PER CODE

NOTES TO CONTRACTOR

1. COORDINATE NUMBER AND LOCATIONS OF ALL ROOF TOP EQUIPMENT & PENETRATIONS WITH MEP DRAWINGS.

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

3. ALL ROOF TOP EQUIPMENT TO BE PROPERLY SUPPORTED BY ROOF CURB OR EQUIPMENT SUPPORT. EQUIPMENT AND OTHER ROOF PENETRATIONS TO BE FLASHED PER THE APPROPRIATE ROOF DETAIL.

4. PROVIDE 12" MIN. HORIZONTAL FLASHING CLEARANCE ON ALL SIDES OF EACH ROOF PENETRATION & CURBS FROM OTHER ROOF PENETRATIONS.

5. PROTECT ALL SURFACES & FINISHES NOT DIRECTLY RELATED TO CONTRACT SCOPE FROM DAMAGE.

6. PROVIDE TEMPORARY ENCLOSURES & FACILITIES AS NEEDED TO CARRY OUT WORK, INCLUDING BUT NOT LIMITED TO: FENCING FOR LAY DOWN YARD, OTHER TEMPORARY FENCING, SITE (SIDEWALK, LANDSCAPE, ETC...) PROTECTION MEASURES, TREE PROTECTION, EXISTING FINISH PROTECTION, PORTABLE RESTROOMS, JOB TRAILER.

7. CRICKETS ARE TO BE INSTALLED AT ALL HIGH SIDES OF ROOFTOP EQUIPMENT.

LEGEND GENERAL ROOF PLAN

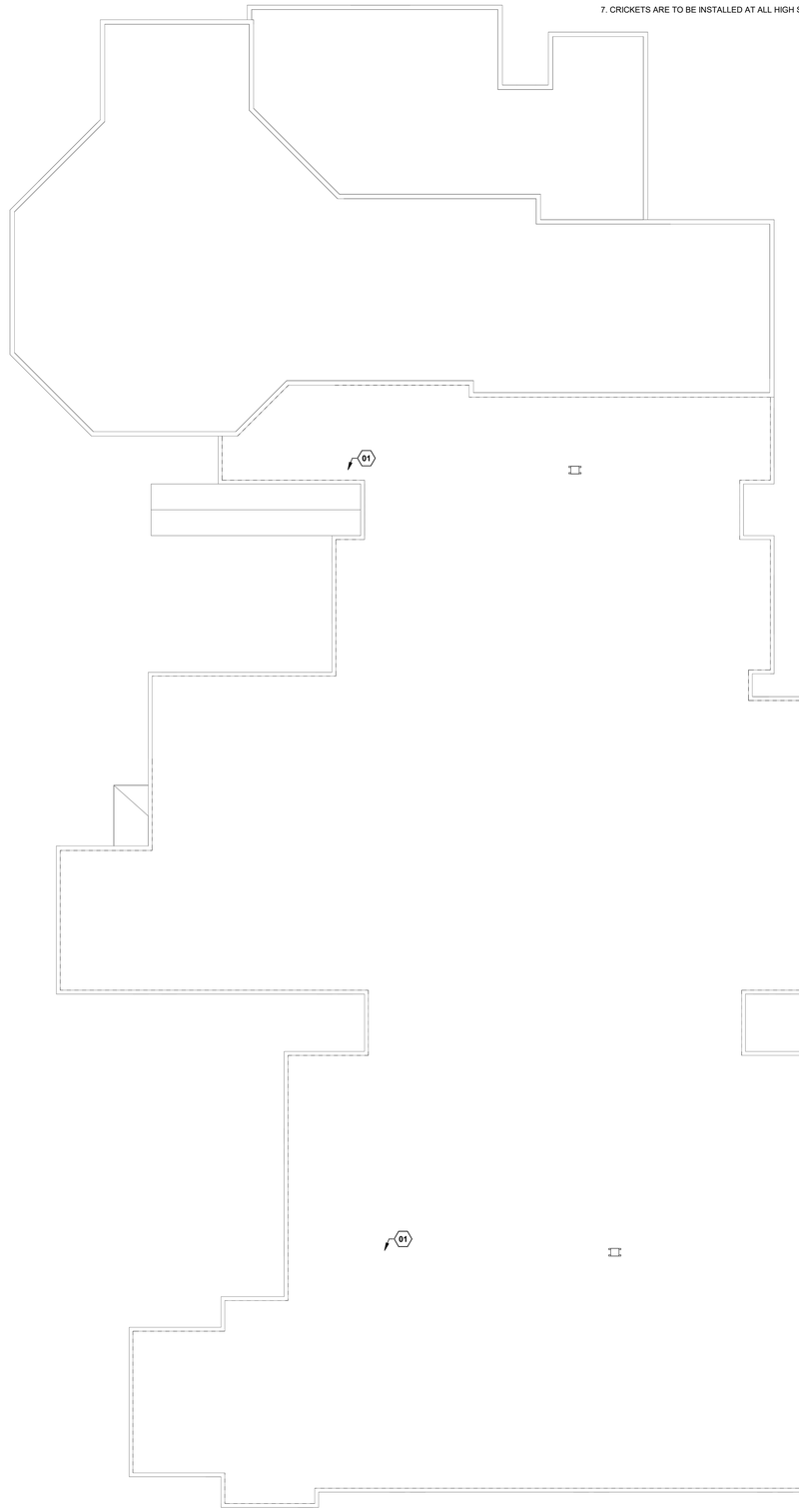
RTU AHU MAU — NEW ROOFTOP UNITS TO BE INSTALLED ALONG WITH NEW ROOF CURB, GAS PIPING, CONNECTION, CONDENSATE DRAIN PIPING, AND CONTROLS

CU — NEW CONDENSING UNIT SUPPORT AND BOX CURB TO BE AT 18" MIN. FLASHING HEIGHT ABOVE EXISTING ROOF

NOT IN SCOPE

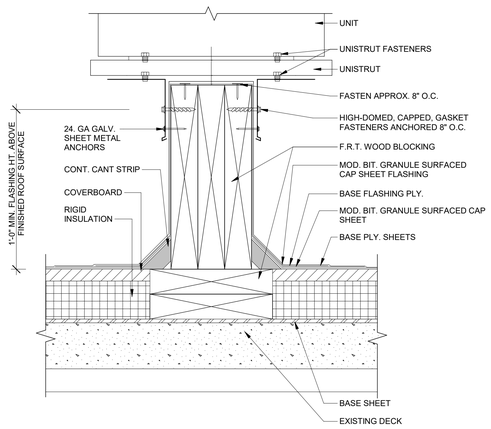
PLAN NOTES BY SYMBOL

01 NEW CONDENSING UNIT, REFER MEP. CURBS TO BE AT 18" MIN. FLASSHING HEIGHT ABOVE EXISTING ROOF.



TRUE NORTH PLAN NORTH

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



2 EQUIPMENT SUPPORT DETAIL IN EXISTING ROOF
Scale: 3" = 1'-0"

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ROOF PLAN

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A2.04

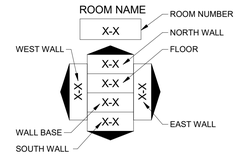
PROJECT NO.: 2023208

INTERIOR MATERIAL SCHEDULE SCHEME 'A'

	MARK	ITEM	MANUFACTURER	DESCRIPTION	COLOR	SIZE	REMARKS	CONTACT
B	**B1**	RUBBER BASE	ROPPE	VINYL WALL BASE	100 BLACK	4"		
CPT	**CPT1**	CARPET TILE	J&J FLOORING	KINETEX COLLECTION	MARKET	24X24	RECEPTION, TRANQUILITY RM	
DP	**DP**	DRAWER PULL	RICHELIEU	CONTEMPORARY/EXPRESSION COLLECTION				
FRP	**FRP**	FIBERGLASS REINFORCED PLASTIC	CRANE COMPOSITES	GLASBOARD PEBBLED EMBOSSED	PEARL GRAY (48)	0.09" (2.3mm)	MATCH HEIGHT OF EXISTING TILE WAINSCOTING	
P	**P1**	PAINT	KELLY MOORE	FIELD PAINT	WHITE SESAME		THROUGHOUT	
P	**P2**	PAINT	SHERWIN WILLIAMS	ACCENT PAINT	SW6814 BREATHTAKING		TRANQUILITY RM	
P	**P3**	PAINT	SHERWIN WILLIAMS	ACCENT PAINT	SW6559 CONCORD GRAPE		RECEPTION CEILING, CONFERENCE RM	
P	**P4**	PAINT	SHERWIN WILLIAMS	PAINT FOR EXISTING WINDOW MULLIONS	SW7015 REPOSE GRAY		ADMINISTRATION RM	
PL	**PL1**	PLASTIC LAMINATE	WILSONART	RECEPTION DESK, FIELD	FAWN CYPRESS		FACE	
PL	**PL2**	PLASTIC LAMINATE	NEVAMAR	RECEPTION DESK, ACCENT	VIOLINE		ACCENT FACE & COUNTER	
SS	**SS1**	SOLID SURFACE	DURASEIN	RECEPTION DESK	BIANCA SABIA		COUNTERTOP	
T	**T1**	TILE, PORCELAIN		FLOOR, JANITOR STORAGE			MATCH EXISTING FLOOR TILE	
T	**T2**	TILE, PORCELAIN	AMERICAN OLEAN	ACCENT WALL	0068 GRACE, GLOSS	6x6	DRINKING FOUNTAIN WALL	
T	**T3**	TILE, PORCELAIN	AMERICAN OLEAN	ACCENT WALL	0075 LEMON ZEST, GLOSS	6x6	DRINKING FOUNTAIN WALL	
T	**T4**	TILE, PORCELAIN	AMERICAN OLEAN	ACCENT WALL	0025 ICE WHITE, GLOSS	6x6	DRINKING FOUNTAIN WALL	
T	**T5**	TILE, PORCELAIN	AMERICAN OLEAN	ACCENT WALL	0014 BALANCE, GLOSS	6x6	DRINKING FOUNTAIN WALL	
TS	**TS1**	TRANSITION STRIP	SCHLUTER		ALUMINUM		VCT TO CARPET TRANSITION	
VCT	**VCT1**	VINYL COMPOSITION TILE	ARMSTRONG	FIELD	CLASSIC WHITE		THROUGHOUT	
VCT	**VCT2**	VINYL COMPOSITION TILE	ARMSTRONG	ACCENT	FALCON GRAY		THROUGHOUT	
VCT	**VCT3**	VINYL COMPOSITION TILE	ARMSTRONG	ACCENT	CAMEL BEIGE		RECEPTION RM	
WC	**WC**	WINDOW COVERING		LOWER STOREFRONT WINDOWS			RECEPTION RM	
WD	**WD**	WOOD DOOR	VT INDUSTRIES	WOOD DOOR			MATCH EXISTING DOORS	

FINISH LEGEND

- OTS — CEILING FINISH
- P1 / B1 — WALL FINISH BASE FINISH
- P1 — WALL FINISH
- T1 — FLOOR FINISH
- S1 — SPECIALTY FINISH
- GRAIN DIRECTION
- FLOOR TRANSITION



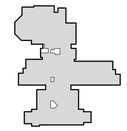
NOTE: UNLESS NOTED OTHERWISE, WALLS SHALL BE PAINTED P1, AND WALL BASE SHALL BE B1.

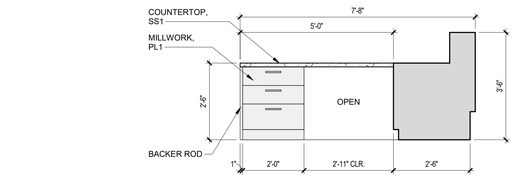
PLAN NOTES BY SYMBOL

01 NEW GROUT LINES TO ALIGN AND MATCH EXISTING

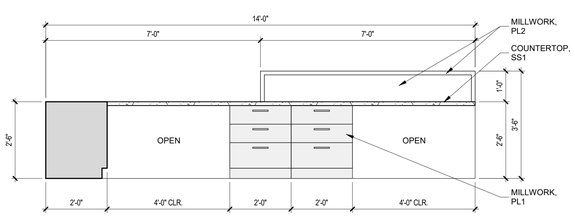
02 EXISTING SHELVING TO BE PAINTED

KEY PLAN





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



8 MILLWORK DETAIL - RECEPTION
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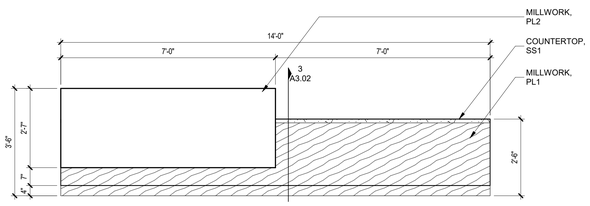

7 MILLWORK DETAIL - RECEPTION
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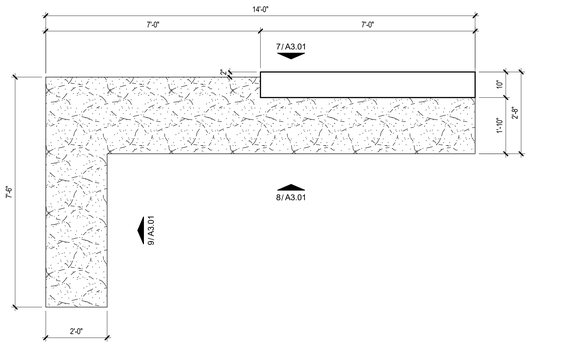
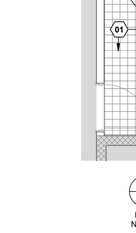


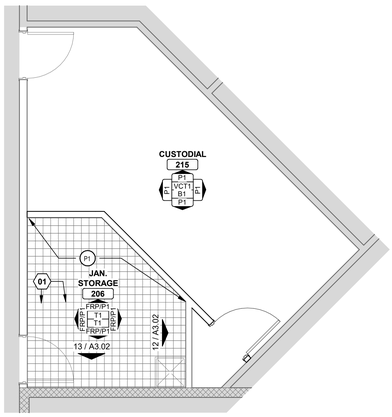
PLAN NORTH

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



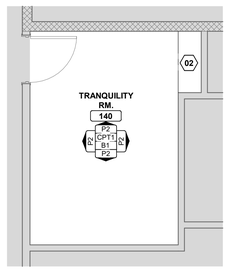
PLAN NORTH

5 WATER FOUNTAIN
Scale: 1/4" = 1'-0"



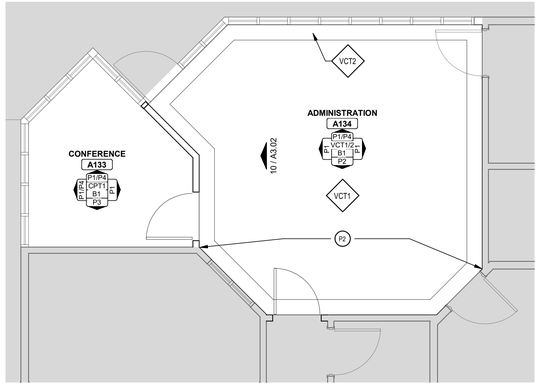
PLAN NORTH

3 FINISH PLAN - CUSTODIAL
Scale: 1/4" = 1'-0"



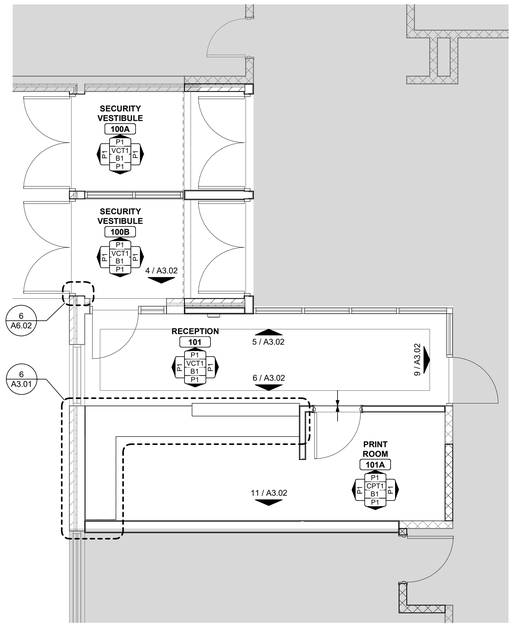
PLAN NORTH

4 FINISH PLAN - TRANQUILITY
Scale: 1/4" = 1'-0"



PLAN NORTH

2 FINISH PLAN - ADMIN
Scale: 1/4" = 1'-0"



PLAN NORTH

1 FINISH PLAN - VESTIBULE
Scale: 1/4" = 1'-0"

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REGISTERED ARCHITECT — STATE OF TEXAS — 09/18/2024

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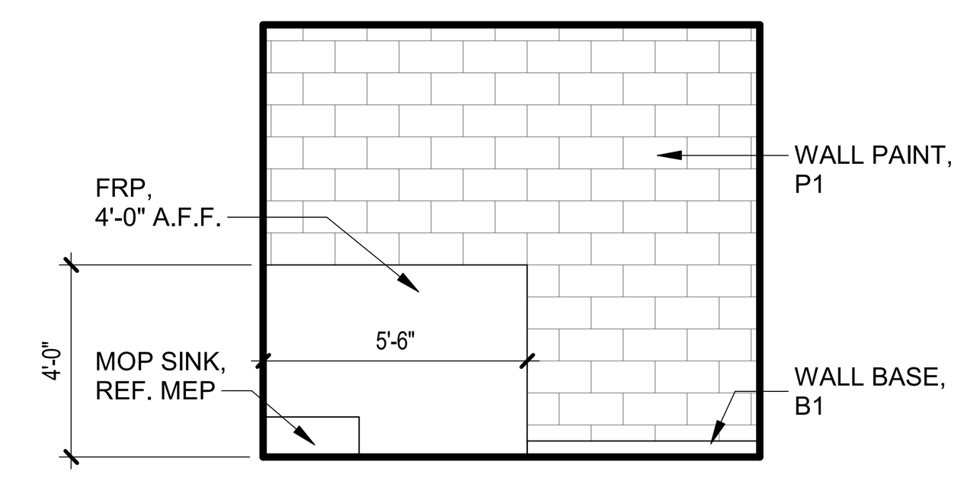
ENLARGED FINISH PLANS & MILLWORK DETAILS

DRAWING RECORD

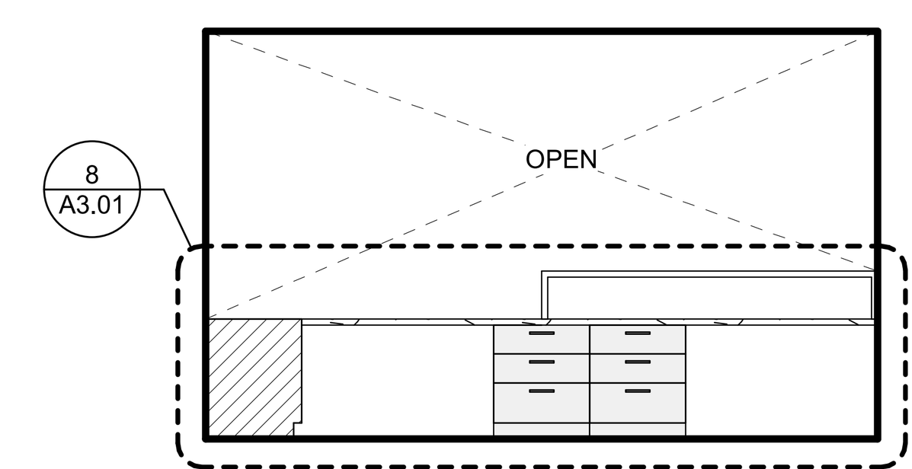
DATE	DESCRIPTION
05/20/24	DD PHASE
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A3.01

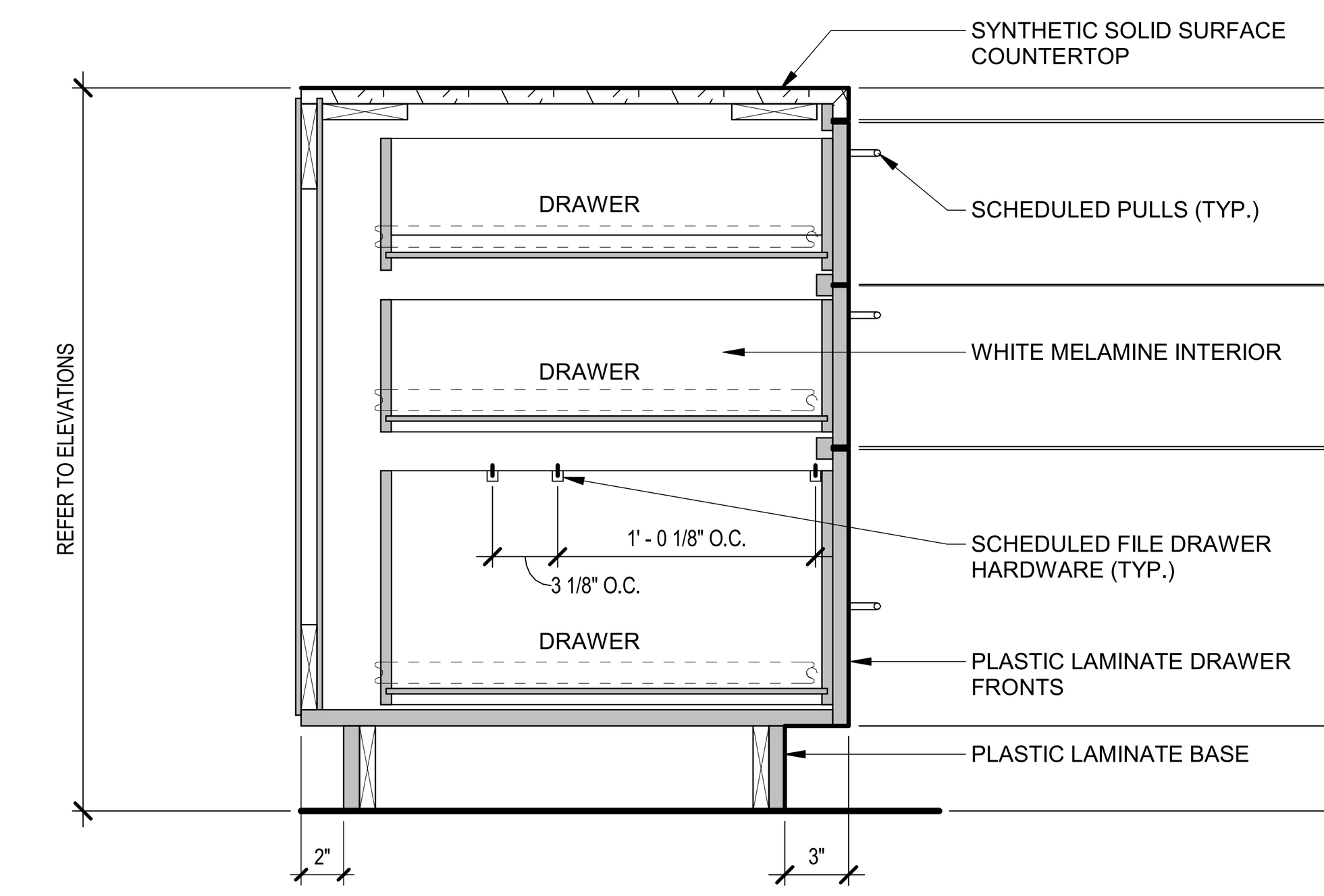
PROJECT NO.: 2023208



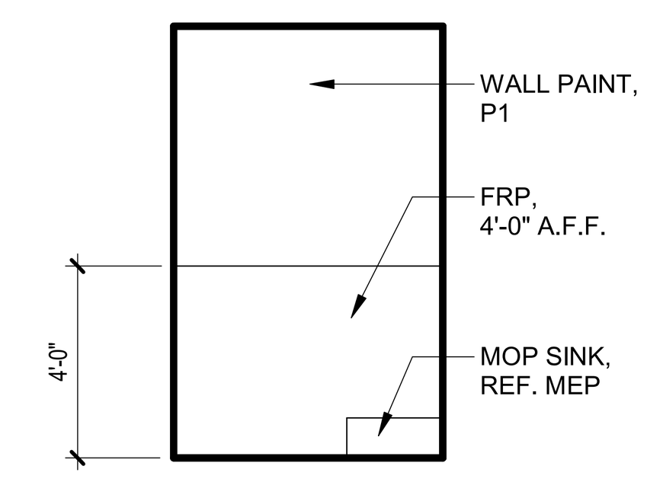
13 **INTERIOR ELEV. - JAN. STORAGE 206**
Scale: 1/4" = 1'-0"



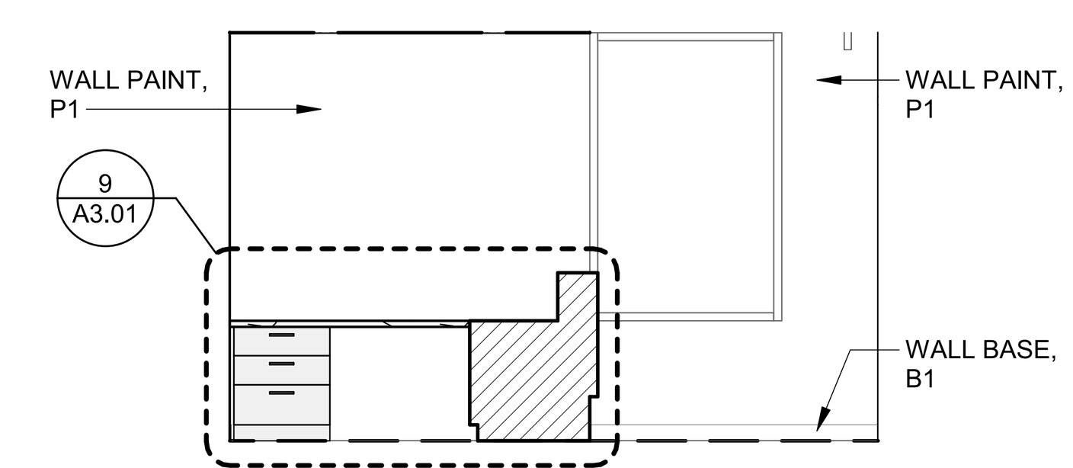
8 **INTERIOR ELEV. - RECEPTION WEST**
Scale: 1/4" = 1'-0"



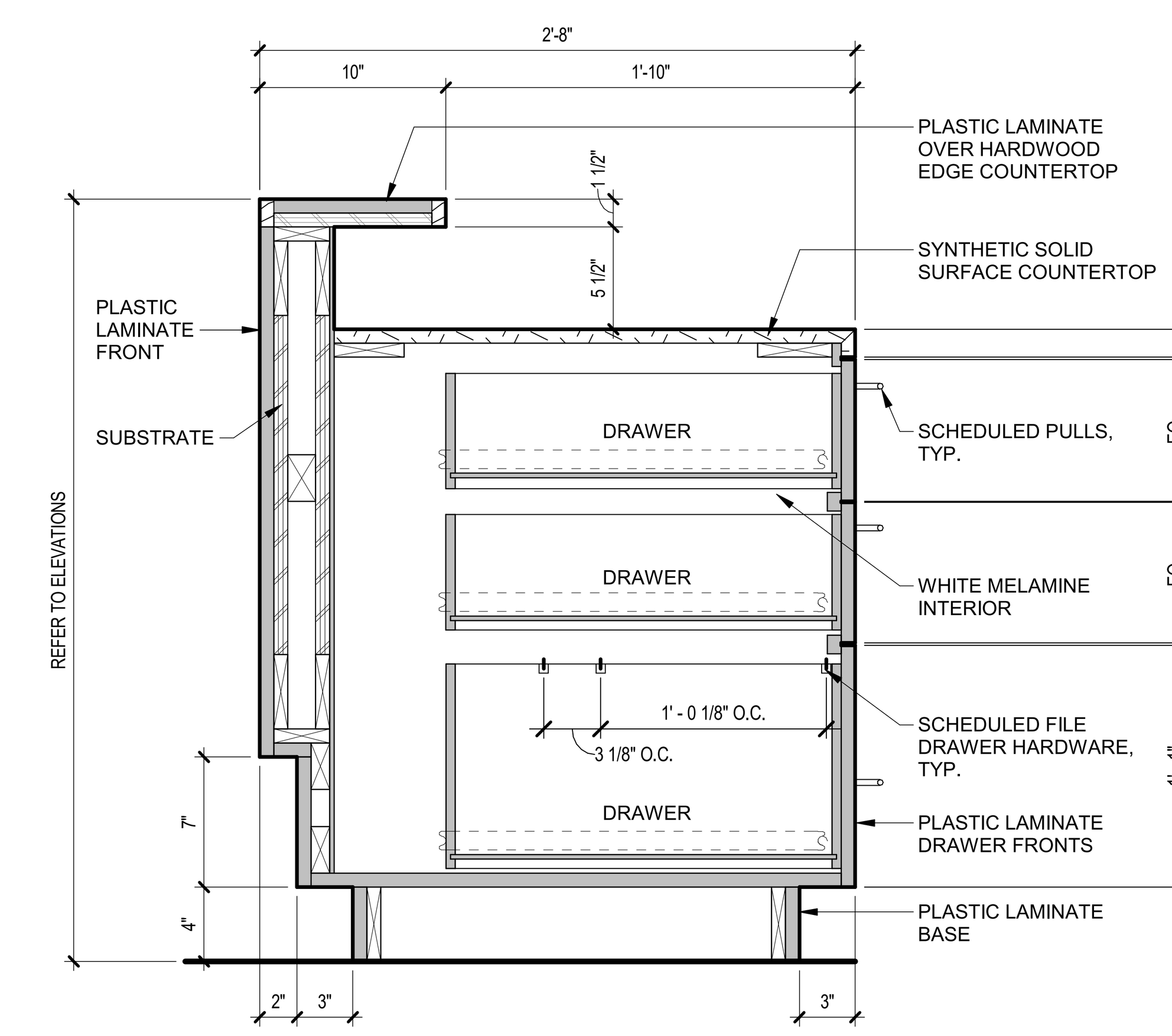
3 **MILLWORK DETAIL - RECEPTION**
Scale: 1 1/2" = 1'-0"



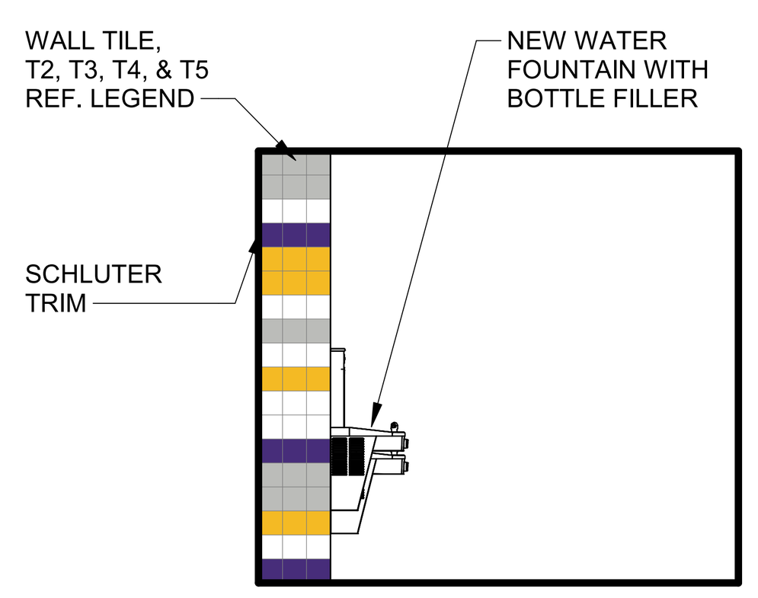
12 **INTERIOR ELEV. - JAN. STORAGE 206**
Scale: 1/4" = 1'-0"



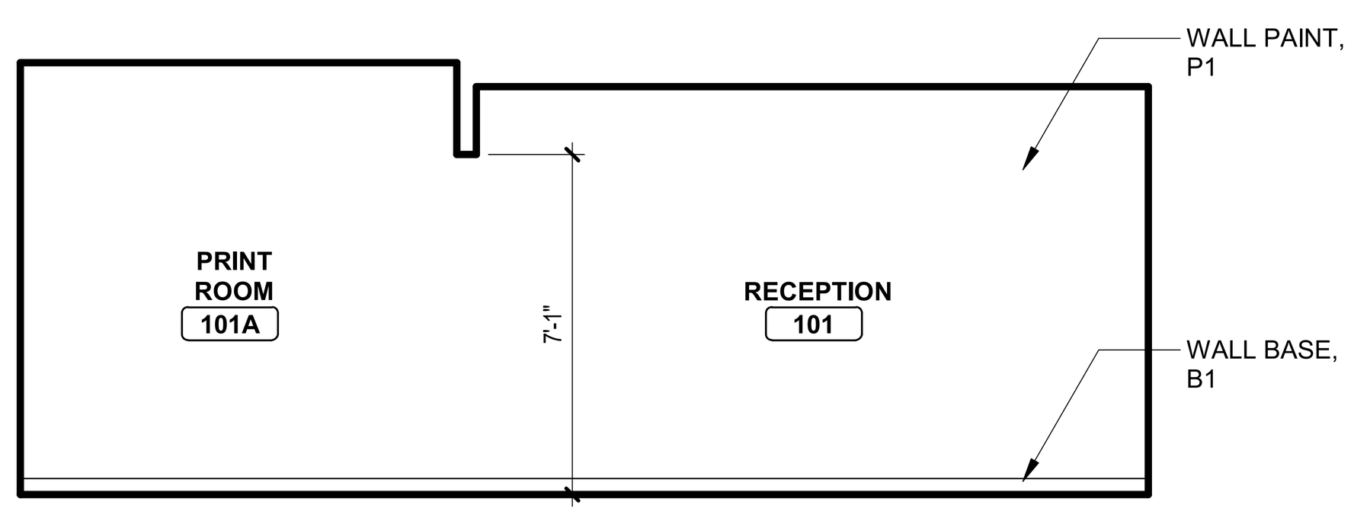
7 **INTERIOR ELEV. - RECEPTION WEST**
Scale: 1/4" = 1'-0"



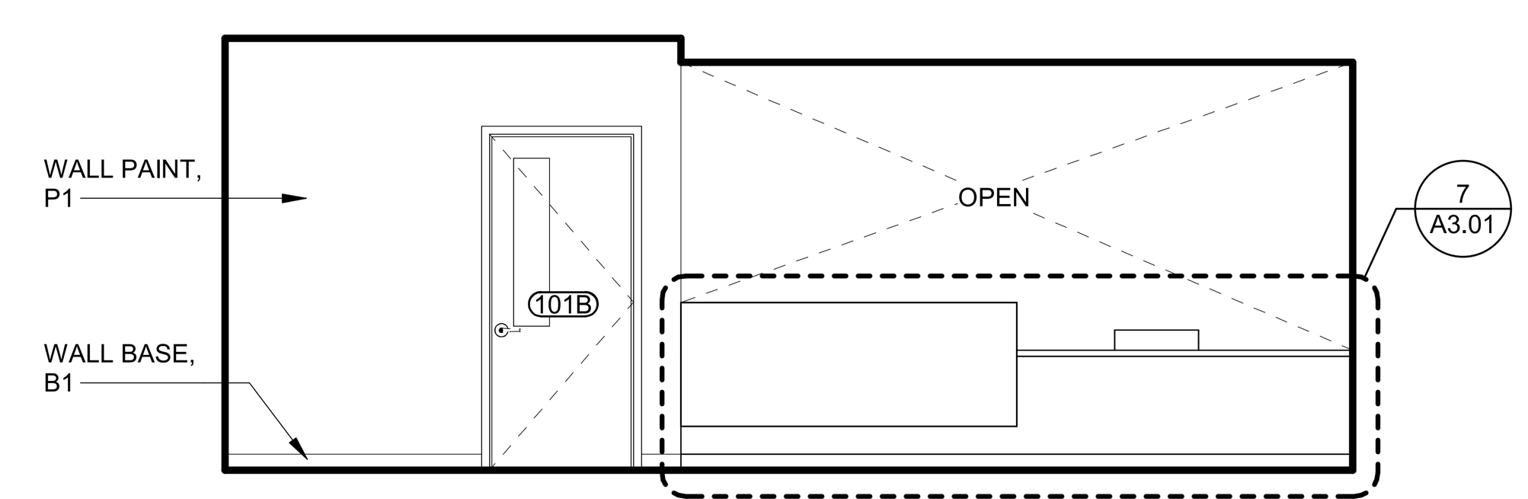
2 **MILLWORK DETAIL - RECEPTION**
Scale: 1 1/2" = 1'-0"



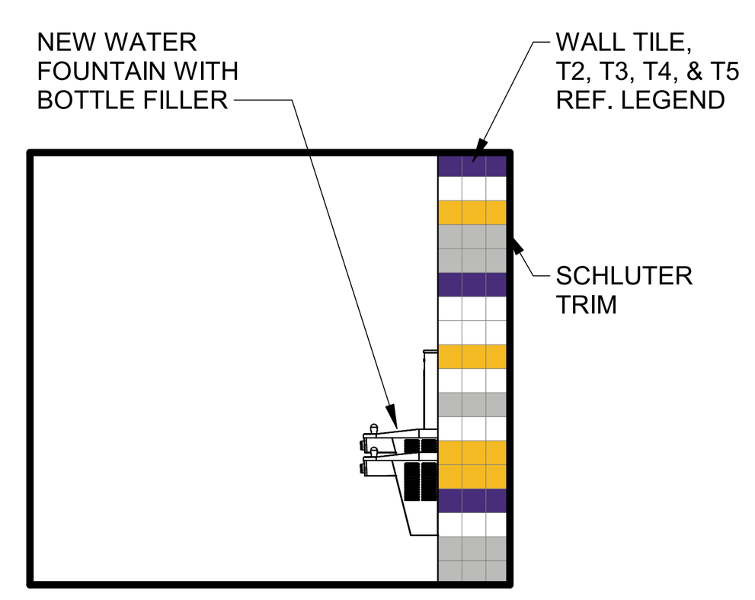
16 **INTERIOR ELEV. - WATER FOUNTAIN**
Scale: 1/4" = 1'-0"



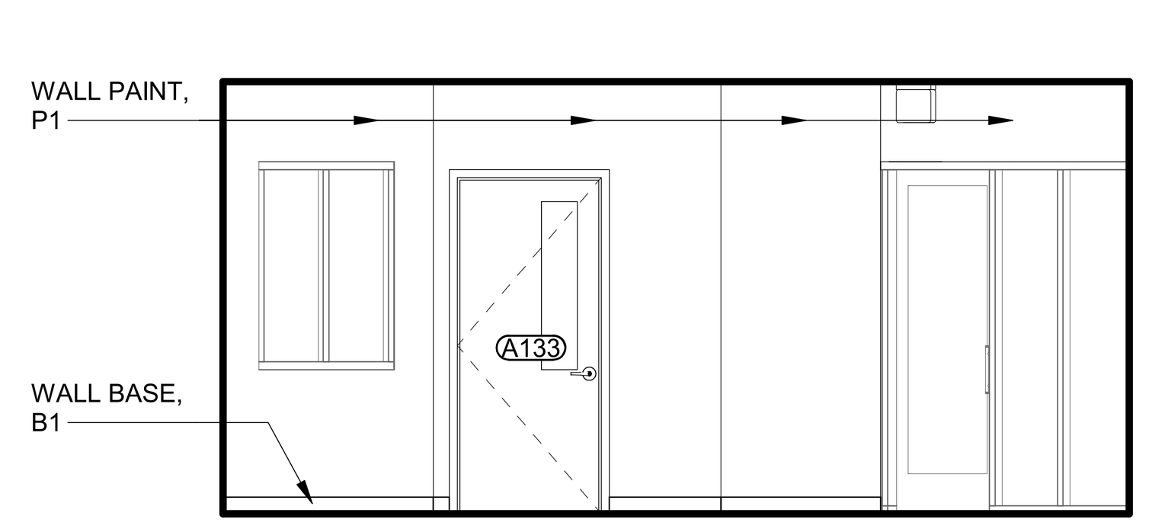
11 **INTERIOR ELEV. - BACK WALL**
Scale: 1/4" = 1'-0"



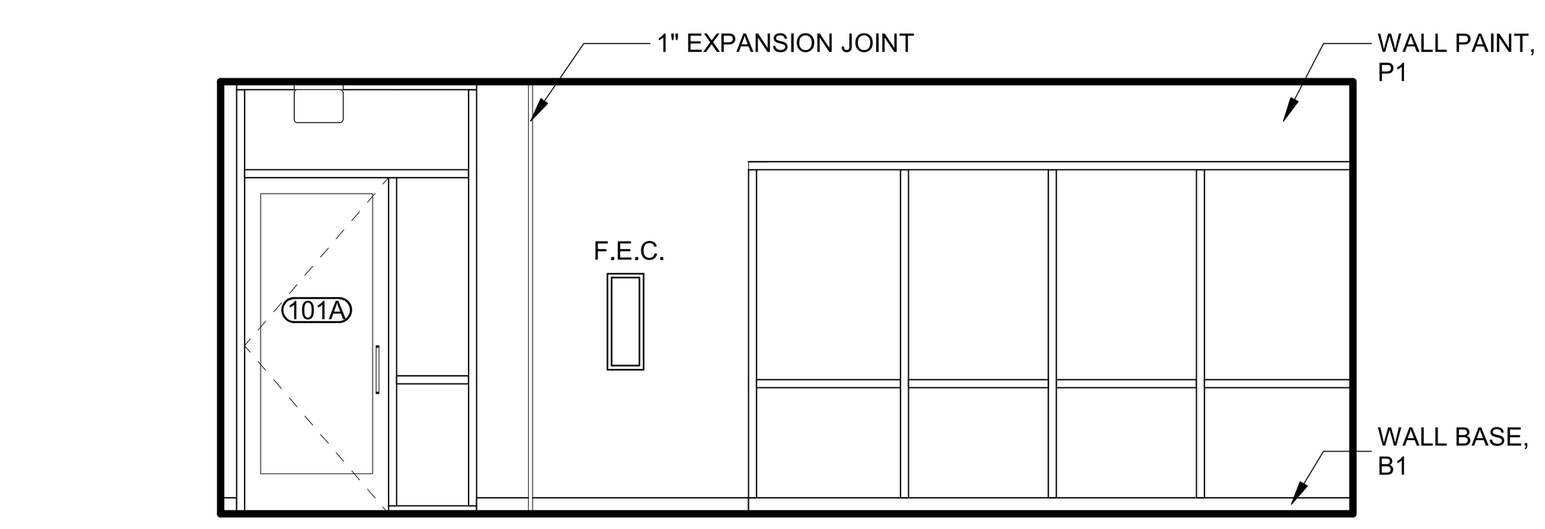
6 **INTERIOR ELEV. - RECEPTION**
Scale: 1/4" = 1'-0"



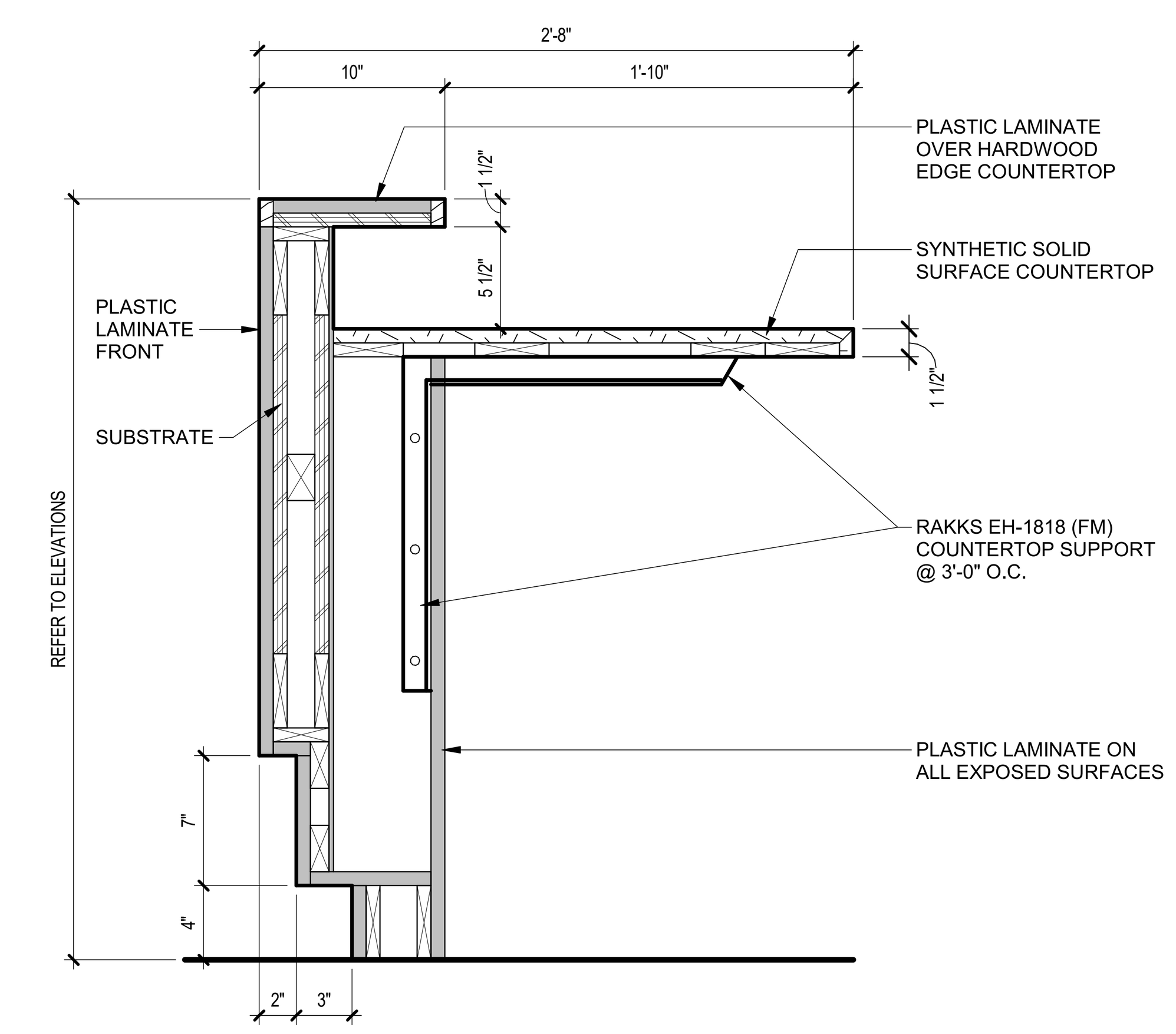
15 **INTERIOR ELEV. - WATER FOUNTAIN**
Scale: 1/4" = 1'-0"



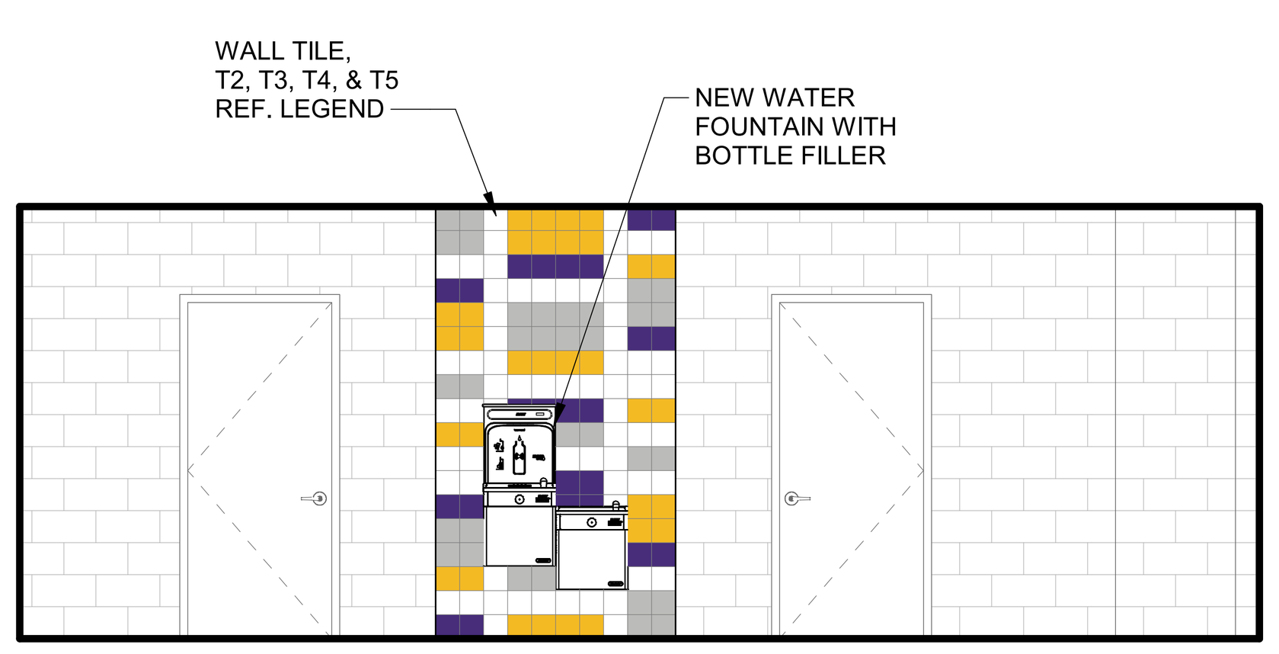
10 **INTERIOR ELEV. - ADMIN. A134**
Scale: 1/4" = 1'-0"



5 **INTERIOR ELEV. - RECEPTION**
Scale: 1/4" = 1'-0"

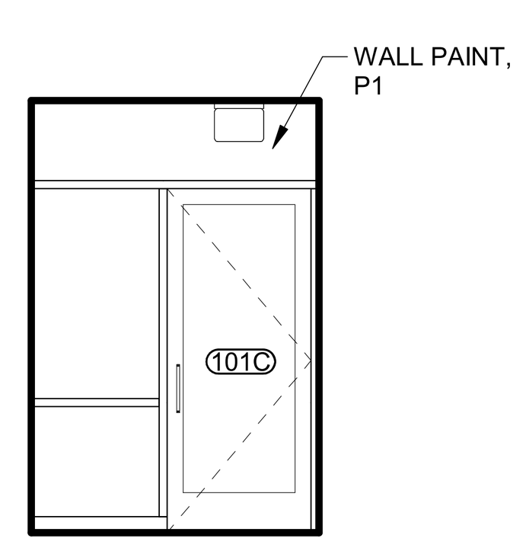


1 **MILLWORK DETAIL - RECEPTION**
Scale: 1 1/2" = 1'-0"

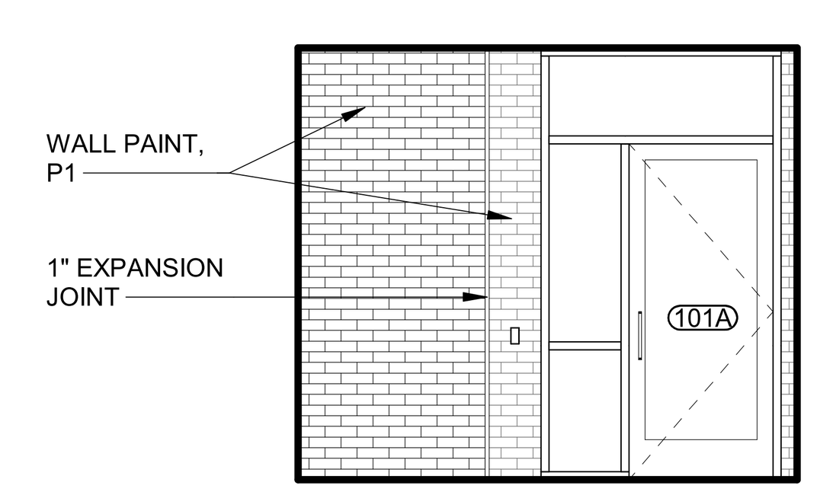


LEGEND	
T2	GRACE
T3	LEMON ZEST
T4	ICE WHITE
T5	BALANCE

14 **INTERIOR ELEV. - WATER FOUNTAIN**
Scale: 1/4" = 1'-0"



9 **INTERIOR ELEV. - RECEPTION**
Scale: 1/4" = 1'-0"



4 **INTERIOR ELEV. RECEPTION ENTRY**
Scale: 1/4" = 1'-0"

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REGISTERED ARCHITECT
14677
STATE OF TEXAS
09/18/2024

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ORG 273 DISD PLEASANT GROVE ELEMENTARY

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MILLWORK DETAILS & INTERIOR ELEVATIONS

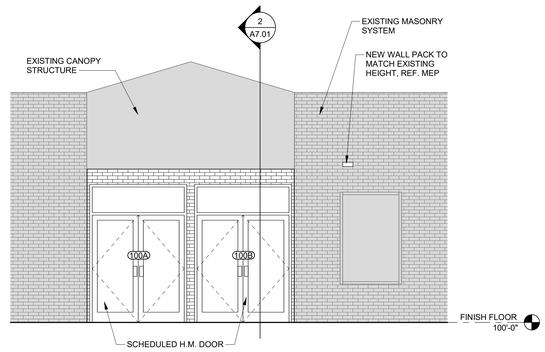
DRAWING RECORD	
DATE	DESCRIPTION
05/20/24	DD PHASE
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A3.02

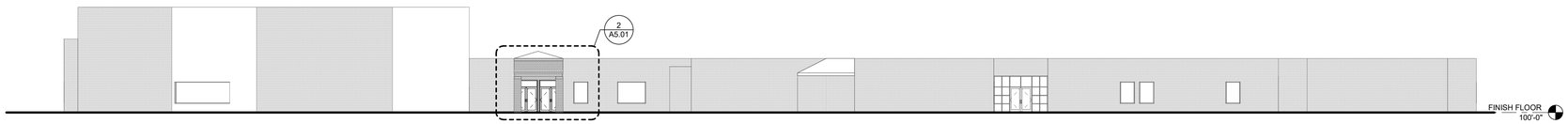
PROJECT NO.: 2023208

MATERIAL SCHEDULE

	COLOR	DESCRIPTION



2 ENLARGED ELEV - MAIN ENTRANCE
Scale: 1/4" = 1'-0"



1 OVERALL WEST ELEVATION
Scale: 1/16" = 1'-0"

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EXTERIOR BUILDING ELEVATIONS

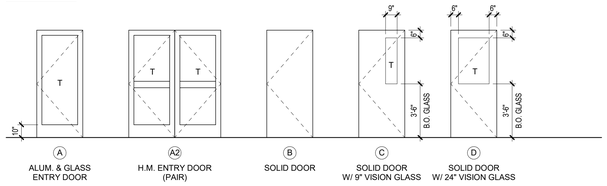
DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

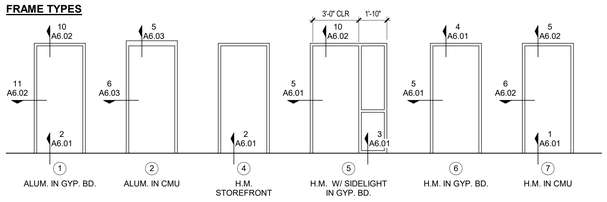
A5.01

PROJECT NO.: 2023208

DOOR TYPES



FRAME TYPES



DOOR SCHEDULE

DOOR NUMBER	DOOR						FRAME		FIRE RATING	HARDWARE SET	NOTES
	TYPE	THICKNESS	WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	FINISH			
100A	A2	1-3/4"	3'-0"	7'-0"	ALGL	-	4	AL/CA		D714AM	
100B	A2	1-3/4"	3'-0"	7'-0"	ALGL	-	4	AL/CA		CR714AM	
101A	A	1-3/4"	3'-0"	7'-0"	ALGL	-	5	AL/CA		ER207A	
101B	C	1-3/4"	3'-0"	7'-0"	WD	WD	1	HM		103	
101C	A	1-3/4"	3'-0"	7'-2"	ALGL	-	4	AL/CA		CR201AC	
102A	A2	1-3/4"	3'-0"	7'-0"	ALGL	-	4	AL/CA		D710AMV	
102B	A2	1-3/4"	3'-0"	7'-0"	ALGL	-	4	AL/CA		C710AMV	
105	C	1-3/4"	3'-0"	7'-0"	WD	WD	1	HM		541H	
215	B	1-3/4"	3'-0"	7'-0"	WD	WD	2	HM		203	
A133	C	1-3/4"	3'-0"	7'-0"	WD	WD	1	HM		103	
A134	C	1-3/4"	3'-0"	7'-0"	WD	WD	1	HM		C201C	

DOOR & FRAME FINISH LEGEND

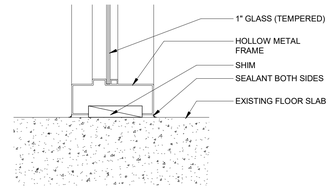
AL	-	ALUMINUM
BL	-	BLACK ANODIZED
CA	-	CLEAR ANODIZED
DB	-	DARK BRONZE ANODIZED
GL	-	GLASS
HM	-	HOLLOW METAL
MTL	-	METAL
PL	-	PLASTIC LAMINATE
PT	-	PAINT
WD	-	WOOD

DOOR HARDWARE SETS

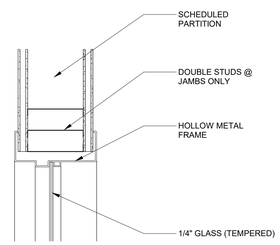
REFER TO HARDWARE SPECS

WINDOW SCHEDULE

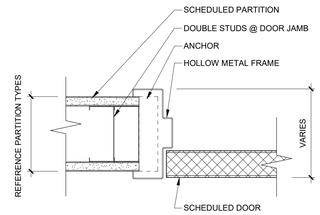
TYPE	FRAME MATERIAL	WINDOW SIZE	FRAME DEPTH	FRAME FINISH
A	HM.	REF. TO ELEVATION	4 1/2"	PAINT
B	HM.	REF. TO ELEVATION	4 1/2"	PAINT
C	ALUM.	REF. TO ELEVATION	4 1/2"	CLEAR ANODIZED
D	ALUM.	REF. TO ELEVATION	4 1/2"	CLEAR ANODIZED
E	ALUM.	REF. TO ELEVATION	4 1/2"	CLEAR ANODIZED



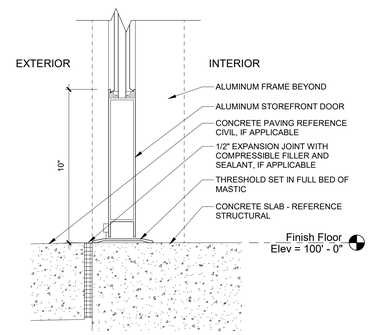
3 SILL DETAIL @ INTERIOR STOREFRONT
Scale: 3" = 1'-0"



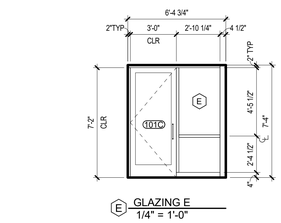
7 H.M. FRAME HEAD/JAMB DETAIL @ GYP. BD.
Scale: 3" = 1'-0"

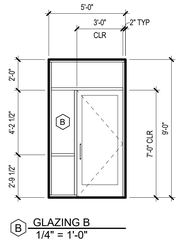


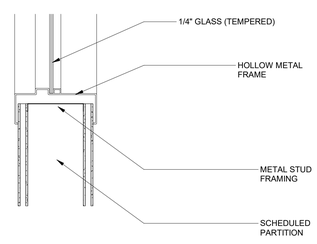
5 JAMB DETAIL @ INTERIOR DOOR
Scale: 3" = 1'-0"



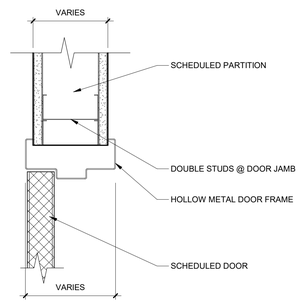
2 SILL DETAIL @ STOREFRONT DOOR
Scale: 3" = 1'-0"



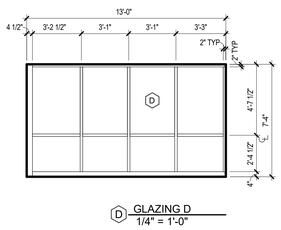


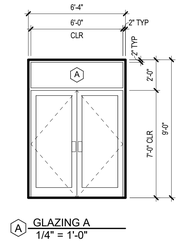


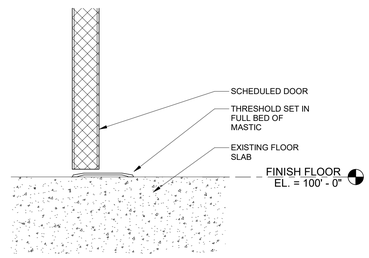
6 H.M. FRAME SILL DETAIL @ GYP. BD.
Scale: 3" = 1'-0"



4 HEAD DETAIL @ INTERIOR DOOR
Scale: 3" = 1'-0"







1 SILL DETAIL @ HOLLOW METAL DOOR
Scale: 3" = 1'-0"

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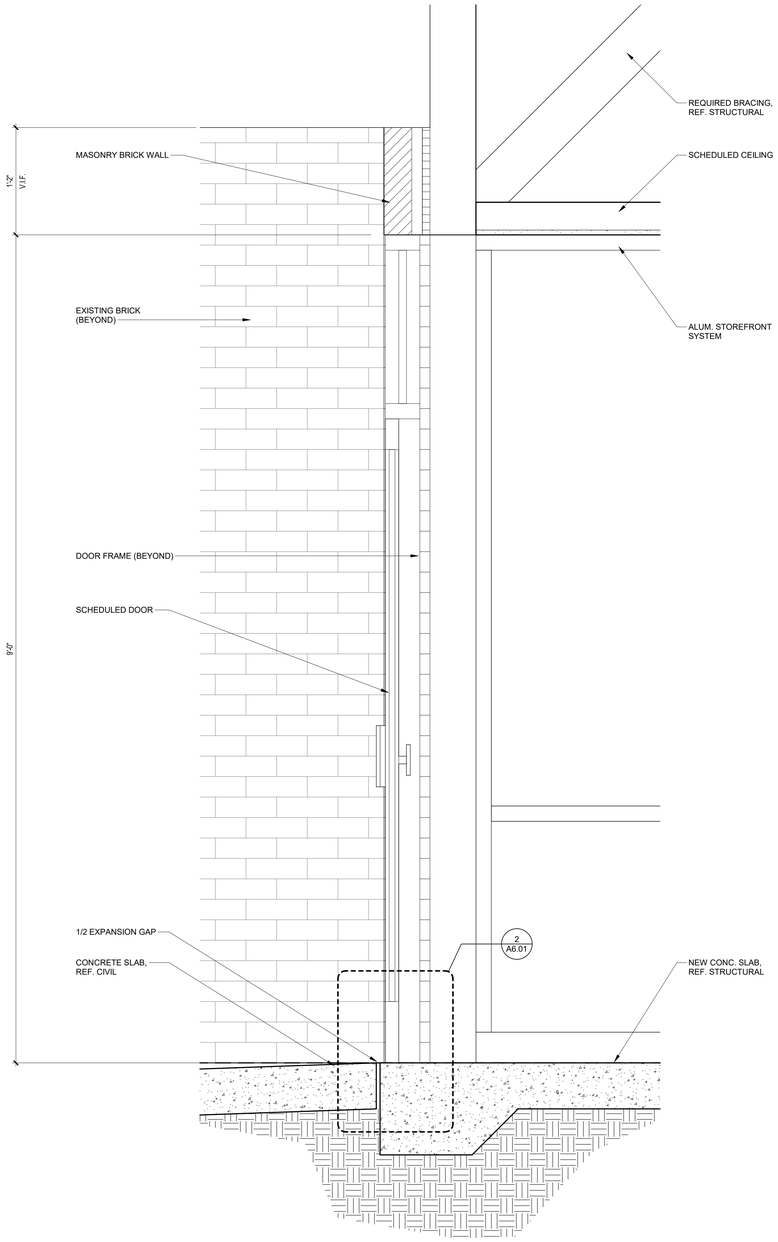
DOOR TYPES, AND DOOR & WINDOW SCHEDULES

DRAWING RECORD

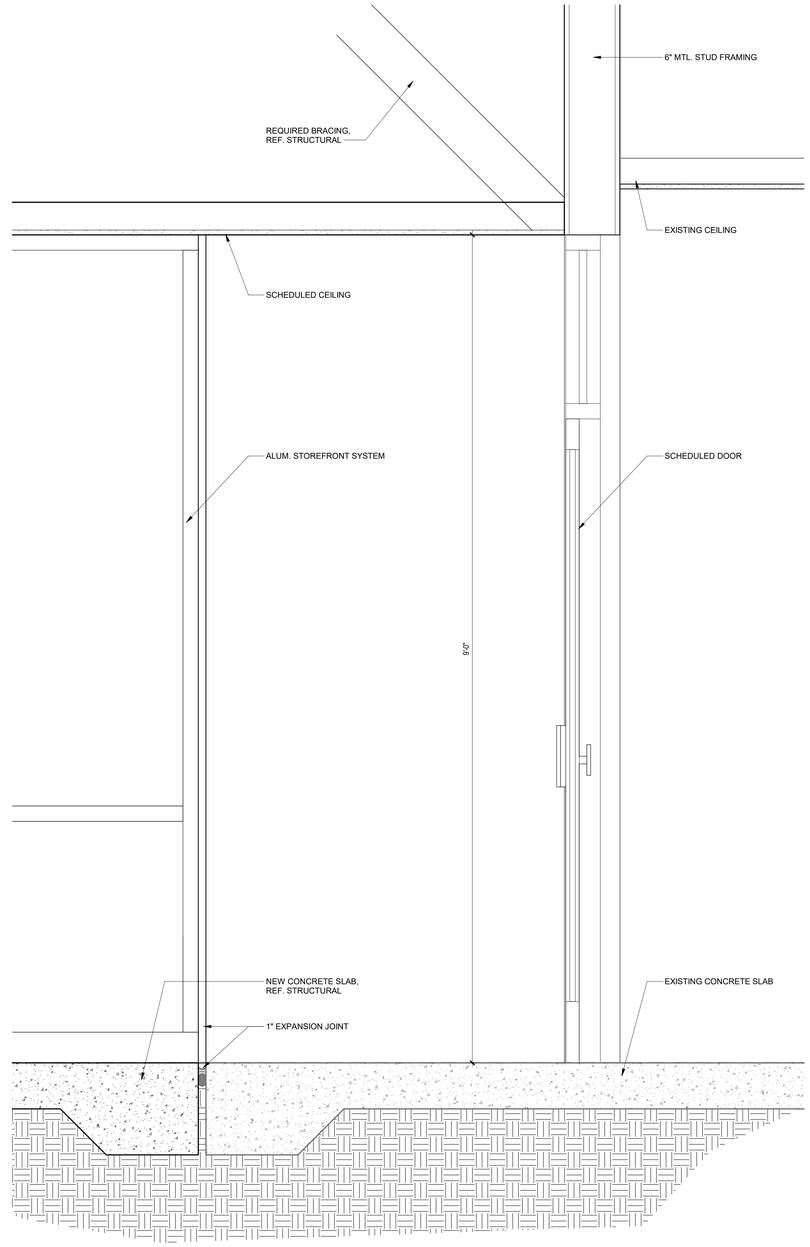
DATE	DESCRIPTION
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A6.01

PROJECT NO.: 2023208



2 **WALL SECTION**
Scale: 1 1/2" = 1'-0"



1 **WALL SECTION**
Scale: 1 1/2" = 1'-0"

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WALL SECTIONS

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
06/21/24	50% SET
08/09/24	95% SET
09/03/24	100% SET
09/18/24	BID SET

A7.01

PROJECT NO.: 2023208

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. 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.

F. 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.

G. 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.

H. 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.

I. 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.

J. 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.

K. 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:	DE24-079
Date:	07.19.24

DESIGN LOADS

A. Dead Loads include the self-weight of the structural elements and the following superimposed loads:

1.	Topping slab, per inch of thickness	12.5 psf

B. Live Loads

	OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
1.	Partitions at areas with Live Load of 80 psf or less	15	N/A
2.	Mechanical rooms, typical	150	Equip. Wt.
4.	Roof - Unreduced (see Note 2)	20	N/A
5.	Schools		
	a. Classrooms	40	N/A
	b. Corridors above first floor	80	N/A
	c. First floor corridors	100	N/A

Notes:
1. The roof structure has additionally been designed to support the weight of ponded water in accordance with AISC.
   a. Notify Architect if the final roof slope is less than 1/4"per foot. Elevation difference between primary and overflow drains or scuppers shall not exceed 2".

C. Snow loads
1. Ground snow load, Pg 5 psf

D. Wind loads
1. Wind lateral load on structural building is based on ASCE 7-16 using the following:
   a. Ultimate Design Wind Speed Vult 111 mph
   b. Nominal Design Wind Speed Vasd 86
   c. Exposure C
   d. Internal Pressure Coefficient, Gcpi +/-0.18
   e. Risk Category III

2. Components and cladding wind pressures for structural building:

Surface	(PSF)	Zone	Area At (ft2)
Exterior walls	+16.5	Interior and edge	10 or less
	-17.9	Interior	10 or less
	-22.0	Edge	10 or less
	+16.0	Interior and edge	500 or greater
	-16.0	Interior	500 or greater
	-16.0	Edge	500 or greater
Roof	-37.9	Interior	10 or less
	-51.7	Edges	10 or less
	-51.7	Corners	10 or less
	-29.8	Interior	100 or greater
	-35.5	Edges	100 or greater
	-35.5	Corners	100 or greater

- Pressures for Tributary Areas in between the listed values may be linearly interpolated.
- Negative value signifies pressure acting away from the surface (suction).
- Edge and Corner zone distances shall be determined in accordance with referenced standard.
- Pressures on parapets shall be determined by combining positive and negative wall pressures or wall and roof pressures listed above in accordance with the referenced standard.
- * Pressures are for gross uplift conditions. Refer to roof plan(s) for net uplift values for design of joists, joist girders, and bridging.

E. Seismic Loads
1. The structure and structural components of the building have been designed in accordance with General Building Code with the following criteria:

a.	Seismic Importance Factor, IE	1.25
b.	Risk Category	III
c.	Mapped Spectral Response Accelerations	
	i. Ss (%g)	0.096
	ii. S1 (%g)	0.054
d.	Site Class	C
e.	Spectral Response Coefficients	
	i. SDS	0.084
	ii. SD1	0.054
f.	Seismic Design Category	A
g.	Basic Seismic-force-resisting system	Steel System Not Specifically Detailed for Seismic Resistance
h.	Design Base shear, V	0.01*W
i.	Seismic Response Coefficient(s), Cs	0.01
j.	Response Modification Factor(s), R	3
k.	Analysis Procedure Used	General Structural Integrity

DRILLED PIERS

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

1.	Allowable end bearing:	40,000 PSF
2.	Side friction:	6,000 PSF
3.	Uplift side friction:	2,500 PSF
4.	Uplift design depth:	15 FT
5.	Side friction (uplift resistance):	3,000 PSF
6.	Minimum penetration into bearing stratum:	5 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 marl.

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"	0.45	S2
Grade Beams	4500	NWT	1"	0.45	S2
Exterior Slab-on-Void	4500	NWT	1"	0.45	F2
Topping Slabs	3000	NWT	1"	----	F2

1. Type 1L cement shall be used.
2. "NWT" refers to normal concrete having air dry unit weight of approximately 145 PCF (ASCE C33 aggregate)
3. 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.
4. "Strength" is required compressive cylinder strength at an age of 28 days.
5. Concrete slump for all floor slabs shall be between 4" - 6" slump.
6. 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. Void forms: Shall be the product of a reputable manufacturer regularly engaged in commercial production of void forms.
1. Void form composition shall be of corrugated paper material with a moisture resistant exterior and an interior fabrication of a uniform cellular configuration, composed of components constructed of double-faced wax-impregnated (partially only), corrugated fiberboard that is laminated with moisture resistant adhesive.
2. Design and maintain void forms to support all vertical and lateral loads that might be applied during construction until such loads can be supported by the concrete structure.
3. Form material shall be designed to lose its strength under prolonged contact with the moisture which normally accumulates beneath slabs and beams on grade.

H. 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.

I. Grade beams in contact with earth shall be formed both sides unless noted otherwise in details.

J. 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.
2. Welded Reinforcing Steel. Provide reinforcing steel conforming to ASTM A706.
3. Deformed Bar Anchors. ASTM A1064 minimum yield strength 70,000 psi as noted on the Structural Drawings. Reinforcing bars shall not be substituted for deformed bar anchors.
4. Welded wire reinforcement. Welded smooth wire reinforcement, ASTM A1064, yield strength 65,000 psi where noted on the Structural Drawings. Welded deformed wire reinforcement, ASTM A1064, yield strength 70,000 psi where noted on the Structural Drawings. Welded wire reinforcement to be provided in flat sheets.

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. Welded Wire Reinforcement shall be continuous across the entire concrete surface and not interrupted by beams or girders and properly lapped one cross wire spacing plus 2".

D. Reinforcement in Topping Slabs shall be welded smooth wire reinforcement minimum 6 x 6 W2.9 x W2.9 in all topping slabs unless specified otherwise on the Structural Drawings.

E. Reinforcement in Housekeeping Pads shall be welded smooth wire reinforcement 6 x 6 W2.9 x W2.9 minimum in all housekeeping pads supporting mechanical equipment whether shown on the Structural Drawings or not unless heavier reinforcement is called for on the Structural Drawings.

F. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:
1. Class A lap beam top reinforcing bars at mid span.
2. Class A lap beam bottom reinforcing bars at the supports.
3. Provide Class B lap at other location pending Engineer's approval.
4. Provide standard hooks in top bars at cantilever and discontinuous ends of beams, walls and slabs.
5. Provide corner bars for all horizontal bars at the inside and outside faces of intersecting beams or walls. Corner bars are not required if horizontal bars are hooked.
6. Provide 2-#4 diagonal bars at all slab re-entrant corners placed under the top mat of steel.

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

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

I. Reinforcing steel clear cover shall be as follows:

1.	Drilled Piers	3"
2.	Formed grade beams	1 1/2" top, 2" sides, 3" bottom
4.	Slab-on-void	3/4" top; 2" bottom

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 or W2.8] 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.

POST-INSTALLED ANCHORS AND DOWELS

A. Mechanical Anchors:
Note: Hilti products listed below shall be considered as basis of design, unless noted otherwise. Additional anchors listed below may be utilized if officially requested as a substitution by the Contractor and approved by JQ for the specific applications. If a substitution request is submitted, the anchor size and/or spacing is subject to change. Additional cost for design services may apply.

1. Expansion Anchors:
   a. In Concrete: Expansion Anchors shall have been tested and qualified in accordance with ACI 355.2 and ICC-ES AC 193. Qualifying anchors shall be one of the following:
      1. Kwik Bolt TZ2 (ICC-ES ESR-4266), Hilti Inc.
      2. Strong Bolt 2 (ICC-ES ESR-3037), Simpson Strong-Tie Co., Inc.
      3. Power-Stud+SD2 (ICC-ES ESR-2502), DEWALT
   b. Expansion anchors shall be installed per manufacturer's printed instructions using a calibrated torque-wrench, Hilti SI-AT-A22 Tool with Adaptive Torque, or method approved by ICC-ES Evaluation Report and approved by JQ.

2. Screw Anchors:
   a. In Concrete: Screw Anchors shall have been tested and qualified in accordance with ACI 355.2 and ICC-ES AC 193. Qualifying anchors shall be one of the following:
      1. Kwik HUS-EZ, CRC, or SS (ICC-ES ESR-3027), Hilti Inc.
      2. Titen HD (ICC-ES ESR-2713), Simpson Strong-Tie Co., Inc.
      3. Screw Bolt+ (ICC-ES ESR-3889), DEWALT
   b. In Grouted Masonry: (Installation permitted in both the top and face of wall) Screw Anchors shall have been tested and qualified in accordance with ICC-ES AC 106. Do not install anchors within 1 1/2" of a head joint, notify JQ if conflict occurs. Qualifying anchors shall be one of the following products:
      1. Kwik HUS-EZ and HUS-EZ P (ICC-ESR-3056), Hilti Inc.
      2. Titen HD (ICC-ES ESR-1056), Simpson Strong-Tie Co., Inc.
      3. Screw Bolt+ (ICC-ES ESR-4042), DEWALT

3. Undercut Anchors:
   a. In Concrete: Undercut Anchors shall have been tested and qualified in accordance with ACI 355.2 and ICC-ES AC 193. Qualifying anchors shall be one of the following:
      1. HDA (ICC-ES ESR-1546), Hilti Inc.
      2. CCU+ Undercut Anchor (ICC-ES ESR-4810), DEWALT

4. Powder-Actuated Fasteners:
   a. In Concrete: Powder-Actuated Fasteners shall have been tested and qualified in accordance with ICC-ES AC 70. Qualifying anchors shall be one of the following:
      1. X-U (ICC-ES ESR-2269), Hilti Inc.
      2. PDPA (ICC-ES ESR-2138), Simpson Strong-Tie Co., Inc.
      3. 0.3" Ø Head Drive (ICC-ES ESR-2024), DEWALT

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DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

STRUCTURAL NOTES

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/09/24	95% CD PHASE
09/03/24	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
132006
LICENSED
PROFESSIONAL ENGINEER

S1.01

PROJECT NO.: Project Number

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

POST-INSTALLED ANCHORS AND DOWELS (CONTINUED)

B. Adhesive Anchors:

Note: Hilti anchor rods & Hilti acrylic (epoxy) adhesive products listed below shall be considered as basis of design, unless noted otherwise. Additional anchors listed below may be utilized if officially requested as a substitution by the Contractor and approved by JQ for the specific applications. If a substitution request is submitted, the anchor size and/or spacing is subject to change. Additional cost for design services may apply.

1. Adhesive Anchors with Threaded Rod:
   a. In Concrete: Adhesive Anchors shall have been tested and qualified in accordance with ACI 355.4 and ICC-ES AC 308. Qualifying anchors shall be one of the following products, unless specifically noted otherwise on structural drawings:
      1. Epoxy: HIT-RE 500V3 SAFESET (ICC-ES ESR-3814), Hilti Inc.
      2. Epoxy: SET-3G (ICC-ES ESR-4057), Simpson Strong-Tie Co., Inc.
      3. Epoxy: Pure 220+ DUST X+ (ICC-ES ESR-5144), DEWALT
      4. Acrylic: HIT-HY 200 V3 SAFESET (-A/-R) (ICC-ES ESR-4878), Hilti Inc.
      5. Acrylic: AT-XP (IAPMO-UES ER-0263), Simpson Strong-Tie Co., Inc.
      6. Acrylic: AC 200+ DUST X+ (ICC-ES ESR-4027), DEWALT
   b. In Grouted Concrete Masonry: (Installation permitted in both the top and face of wall) Adhesive Anchors shall have been tested and qualified in accordance with ICC-ES AC 58. Qualifying anchors shall be one of the following:
      1. Acrylic: HIT HY-270 SAFESET (ICC-ES ESR-4143), Hilti, Inc.
      2. Acrylic: AT-XP (IAPMO-UES ER-0281), Simpson Strong-Tie Co., Inc.
      3. Acrylic: AC 100+Gold (ICC-ES ESR-3200), DEWALT
   c. In Ungrouted Concrete Masonry with mesh screen tube:
      1. Acrylic: HIT HY-270 (ICC-ES ESR-4143), Hilti, Inc.
      2. Acrylic: AC 100+Gold (ICC-ES ESR-4105), DEWALT
      3. Epoxy: SET-XP (IAPMO-UES ER-265), Simpson Strong-Tie Co., Inc.
   d. Threaded anchor rod shall be one of the following:
      1. Hilti adhesive: "HAS-V-36" (u.n.o), "HAS-E-55", "HAS-B-105" ASTM F1554 Threaded Rods
      2. Simpson adhesive: Steel meeting the requirements of ASTM F1554, grade 36.
      3. DEWALT adhesive: Steel meeting the requirements of ASTM A1554, grade 36.
      4. Anchor rod shall have a chamfered end on one end to accept a nut and washer; it may have a 45-degree chisel point on the other end.
      5. Nuts and washers shall have a proof load strength at least as strong as anchor rod. Stainless steel nuts and washers shall be provided with stainless steel rods.

2. Adhesive Rebar Dowelling:
   a. Adhesive dowels are not permitted to be substituted for cast-in dowels unless authorized in advance by JQ for each specific location.
   b. Adhesive doweling systems in concrete shall have been tested and qualified in accordance with ACI 355.4 and ICC-ES AC 308. Qualifying anchors shall be one of the following products, unless specifically noted otherwise on structural drawings:
      1. Epoxy: HIT-RE 500V3 SAFESET (ICC-ES ESR-3814), Hilti Inc.
      2. Epoxy: SET-3G (ICC-ES ESR-4057), Simpson Strong-Tie Co., Inc.
      3. Epoxy: Pure 220+ DUST X+ (ICC-ES ESR-5144), DEWALT
      4. Acrylic: HIT-HY 200 V3 SAFESET (-A/-R) (ICC-ES ESR-4878), Hilti, Inc.
      5. Acrylic: SET-XP (ICC-ES ESR-2508), Simpson Strong-Tie Co., Inc.
      6. Acrylic: AC 200+ (ICC-ES ESR-4027), DEWALT

C. Anchor and Dowel Installation Requirements
1. Anchors and dowels of the size and embedment shown on the Drawings shall be installed in accordance with the Contract Documents, the manufacturer's recommendations, and the manufacturer's current evaluation (ICC-ES or IAPMO-UES) report for the anchor. If conflicts exist between these referenced documents, the most stringent requirements shall govern.
2. The Contractor shall locate all existing reinforcing steel and other embedded items contained in the concrete using non-destructive methods and shall position anchor locations to avoid conflicts with existing embedded items. Anchor or dowel locations can be adjusted by a maximum of 1 1/2" from detailed locations to avoid conflicts, but shall neither change arrangement nor move closer to a concrete edge.
3. Based on field verified locations of reinforcing steel and embedded items, the Contractor shall create templates for each anchor group. Submit template dimensions for review prior to fabrication of connection plates.
4. Holes for anchors and dowels shall be drilled in a continuous operation using the drill-bit type and size recommended by the anchor manufacturer. Holes shall be drilled perpendicular to the concrete surface and shall not be enlarged or redirected at any point along its length. Holes shall be drilled using a hammer drill, coring shall not be allowed, unless noted otherwise.
5. Oil free compressed air shall be used to blow out the holes unless one of the approved systems noted below is utilized. Unapproved shop vacs, squeeze bulbs, etc. shall NOT be used. Refer to manufacturer's information for detailed cleaning instructions.
   a. Hilti SAFESET system with Hilti Hollow Drill Bit and Vacuum System (VC150 or VC300) may be used to eliminate hole cleaning with adhesive anchors.
   b. Simpson Speed Clean DXS system may be used to eliminate manual hole cleaning with adhesive anchors.
   c. DEWALT Dust X system with hollow drill bit may be used to eliminate manual hole cleaning with adhesive anchors.
6. All abandoned holes shall be filled with non-metallic nonshrink grout capable of reaching a design compressive strength of 5,000 psi at 28 days.
7. Holes in connection plates shall be no more than 1/16" larger than the anchor diameter for 3/4" diameter anchors or less and holes in connection plates shall be no more than 1/8" larger than the anchor diameter for 1" diameter anchors or larger; Unless specified otherwise by the manufacturer. If larger holes are required for erection purposes, Contractor shall notify Engineer such that a plate washer size can be provided.
8. At the time of anchor installation, concrete shall have a minimum compressive strength of 2500 psi and an age of 21 days.
9. The following parameters were used in the determination of the bond stress for adhesive anchors. Contractor shall notify JQ if any of these parameters are not met:
   a. Drilled hole condition: Dry
   b. No diamond core drilling
   c. Substrate temperature range at the time of installation and conditioned per manufacturer requirements:

Concrete Anchors	Minimum (°F)	Maximum (°F)
Hilti HIT RE-500V3	23	104
HIT-HY 200 V3 (-A/-R)	14	104
Simpson SET-3G	40	100
Simpson AT-XP	14	100
DEWALT Pure 220+	41	104
DEWALT AC 200+	23	104

Masonry Anchors	Minimum (°F)	Maximum (°F)
Hilti HY-270	23	70
Simpson AT-XP	14	100
Simpson SET-XP	50	70
DEWALT AC 100+	14	70

   d. Maximum short term substrate temperature after installation = 130°F
   e. Maximum long term substrate temperature after installation = 110°F

D. All post-installed anchors shall be installed by personnel trained by a manufacturer's field representative for each product to be used. A record of training shall be kept on site and be made available to the EOR as requested.

E. For adhesive anchors installed in a horizontal orientation subject to sustained tension loading and all upwardly inclined (including soffit installations) orientation:
1. Per ACI 318-14 (17.8.2.2): Installation shall be performed by personnel certified by ACI/CRSI "Adhesive Anchor Installer Certification Program." Certification shall include written and performance tests.

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. W-shapes shall conform to ASTM A992.
   b. Channels shall conform to ASTM A36.
   c. Angles shall conform to ASTM A36.
   d. Square or rectangular hollow structural shape members shall conform to ASTM A500, Grade C, Fy = 50 ksi.
   e. Structural steel plate shall conform to ASTM A36.
   f. Any other steel shall conform to ASTM A36.
   g. 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.

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. Building cladding support steel in space not air conditioned and/or exposed to moisture outside the exterior waterproofing surface if any.
   c. Railing exposed to weather.
   d. 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.

STRUCTURAL STEEL CONNECTIONS

A. Welded Connections
1. All welding shall conform to ANSI/AWS D1.1, latest edition.
2. Minimum fillet weld size to be 3/16 inch or minimum size required by AISC, whichever is larger.

B. Bolted Connections
1. Unless noted otherwise on the Structural Drawings, bolts shall be 3/4 inch diameter and conform to ASTM F3125, grade A325. Bolts shall be designed using values for bearing type bolts with thread allowed in the shear plane.
2. Bolts shall be tightened to "snug tight" as defined by AISC, unless noted otherwise on the Structural Drawings.
3. Refer to "Structural Steel Slip-Critical Bolted Connections" structural notes at slip-critical bolted connections.

C. Any structural steel connection not specifically detailed on the Structural Drawings shall be designed and detailed by the Contractor's professional engineer licensed in the state having jurisdiction at the project site (delegated designer). Sealed calculations for all connections designed by the Contractor's delegated designer shall be submitted for the Architect's files.

D. All beam shears, reactions, member forces, moments, etc. shown on the Structural Drawings are factored loads conforming to the requirements of AISC Load and Resistance Factor Design (LRFD).

E. Connections shall be designed and detailed as follows, unless noted otherwise on the Structural Drawings:
1. Shear connections may be selected or completed by an experienced steel detailer per the ANSI/AISC 303, Section 3.1.1.(2), in accordance with the details provided in the Structural Drawings for the following connections:
   a. Double angle shear connections
   b. Single plate shear connections
2. All other connections shall be designed and detailed by the Contractor's delegated designer and sealed calculations shall be submitted per the ANSI/AISC 303, Sections 3.1.1.(3) and 3.1.2.(2), option 3B for the following but not limited to:
   a. Moment connections
   b. Axial connections
   c. Brace and truss connections
   d. Shear connections that do not meet the requirements of the detailing provided in the Structural Drawings.
3. Project specific details provided for non-typical conditions showing conceptual configurations of connections, stiffeners, web doubler plates, bearing stiffeners, and other member reinforcement at connections where such reinforcement is required. These conceptual configurations are not fully designed unless specifically noted otherwise and design shall be delegated as stated above. Where stiffener plates are shown they shall be provided.
4. Where indicated on the structural drawings, the connections shall be designed for the scheduled forces as follows (see force diagram in symbols legend):
   a. Vertical forces (shear) indicated as "R = ".
   c. Axial forces indicated as "A = ".
   d. Moment forces indicated as "M = ".
   Note: All moment forces noted on plan should be designed for full reversibility in order to produce the worst case connection design.
5. Beam shear connections not indicated on the Structural Drawings, shall be designed for 55% of the total load capacity for the beam span shown in the beam tables in the AISC Manual referenced in the "Codes & Referenced Reports" notes.
6. Moment connections with moment values not indicated on the Structural Drawings, shall be welded to develop the full capacity of the member.
7. Brace and truss connections not indicated on the Structural Drawings, shall be designed to be welded connections to develop the full tensile capacity of the members.
8. In general, shop connections shall be bolted or welded and field connections shall be bolted.
9. Short slotted holes shall be permitted in shear connections provided washers are installed in accordance with AISC requirements. Washers shall be hardened where A325 bolts are utilized. Short slotted holes shall not be oriented parallel to axial or shear loads.

F. All welds denoted as moment connection or complete joint penetration (CJP) weld shall be ultrasonically or x-ray certified by an independent testing agency.

G. Roof edge angles shall be continuous and shall be spliced only at supports. Splices shall be butt welded or an approved connection designed by delegated designer to develop the full capacity of the member.

H. For connections not specifically addressed by these notes or the Structural Drawings, provide fillet welds at all contact surfaces sufficient to develop the tensile strength of the smaller member at the joint.

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. Metal Ladders
3. Guardrail and Handrail Systems
4. Cold Formed Metal Framing
5. Embedded assemblies and inserts, clamps, hangers, trapezes, unistrut, etc. for the support of MEP systems.
6. Embedded assemblies, inserts, and/or hangers for fire suppression systems.
7. Excavation Support and Protection
8. 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.

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
ADDNL.	-	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
ARCHL	-	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(TD)	-	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.	-	BRIOKLEDGE
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
CTRD.	-	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
PIC	-	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

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Jacobs

DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

STRUCTURAL NOTES

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/09/24	95% CD PHASE
09/03/24	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 132006 LICENSED PROFESSIONAL ENGINEER

S1.02

PROJECT NO.: Project Number

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 TASKS FOR WELDING OF STRUCTURAL STEEL[1] (AISC 360-16 Table N5.4)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Inspection tasks prior to welding:				
YES	a. Welder qualification records and continuity records.	X	--		
YES	b. Welding procedure specifications (WPSs) available	X	--	AISC 360-16 N5.4-1: AWS D1.1	1705.2.1
YES	c. Manufacturer certifications for welding consumables available	X	--		
YES	d. Material identification (type/grade)[2]	--	X		
YES	e. Welder identification system[2]	--	X		
NO	f. Fit-up of groove welds (including joint geometry)[2] 1) Joint preparations 2) Dimensions (alignment, root opening, root face, bevel) 3) Cleanliness (condition of steel surfaces) 4) Tacking (tack weld quality and location) 5) Backing type and fit (if applicable)	--	X		
NO	g. Fit-up of CJP groove welds of HSS T-, Y- and K-joints without backing (including joint geometry) 1) Joint preparations 2) Dimensions (alignment, root opening, root face, bevel) 3) Cleanliness (condition of steel surfaces) 4) Tacking (tack weld quality and location)	X	--		
YES	h. Configuration and finish of access holes.[2]	--	X		
YES	i. Fit-up of fillet welds[2] 1) Dimensions (alignment, gaps at root) 2) Cleanliness (condition of steel surfaces) 3) Tacking (tack weld quality and location)	--	X		
YES	j. Check welding equipment	--	X		
	2. Inspection tasks during welding:				
YES	a. Control and handling of welding consumables[2] 1) Packaging 2) Exposure control	--	X	AISC 360-16 N5.4-2: AWS D1.1	1705.2.1
YES	b. No welding over cracked tack welds[2]	--	X		
YES	c. Environmental conditions[2] 1) Wind speed within limits 2) Precipitation and temperature	--	X		
YES	d. WPS followed[2] 1) Settings on weld equipment 2) Travel speed 3) Selected welding materials 4) Shielding gas type/flow rate 5) Preheat applied 6) Interpass temperature maintained (min./max.) 7) Proper position (F, V, H, OH)	--	X		
YES	e. Welding techniques[2] 1) Interpass and final cleaning 2) Each pass within profile limitations 3) Each pass meets quality requirements	--	X		
NO	f. Placement and installation of steel headed stud anchors	X	--		
	3. Inspection tasks after welding:				
YES	a. Welds cleaned	--	X	AISC 360-16 N5.4-3: AWS D1.1	1705.2.1
YES	b. Size, length and location of welds	X	--		
YES	c. Welds meet visual acceptance criteria 1) Crack prohibition 2) Weld/base-metal fusion 3) Crater cross section 4) Weld profiles 5) Weld size 6) Undercut 7) Porosity	X	--		
YES	d. Arc strikes	X	--		
YES	e. k-area[3]	X	--		
NO	f. Weld access holes in rolled heavy shapes and built-up heavy shapes[4]	X	--		
YES	g. Backing removed and weld tabs removed (if required)	X	--		
YES	h. Repair activities	X	--		
YES	i. Document acceptance or rejection of welded joint or member	X	--		
YES	j. No prohibited welds have been added without the approval of the EOR	X	--		

1. Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-16 Section N5 and assigned to the Quality Control Inspector (QCI)

2. Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.

3. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld.

4. After rolled heavy shapes and built-up heavy shapes are welded, visually inspect the weld access hole for cracks.

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 1705.2.2)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Inspection or Execution Tasks Prior to Deck Placement				
NO	a. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness	X	--	SDI QA/QC-2017 Table 1.1	IBC 1705.2.2
NO	b. Document acceptance or rejection of deck and deck accessories	X	--		
	2. Inspection or Execution Tasks After Deck Placement				
NO	a. Verify compliance of deck and all deck accessories installation with construction documents	X	--	SDI QA/QC-2017 Table 1.2	IBC 1705.2.2
NO	b. Verify deck materials are represented by the mill certifications that comply with the construction documents	X	--		
NO	c. Document acceptance or rejection of installation of deck and deck accessories	X	--		
	3. Inspection or Execution Tasks Prior to Welding				
YES	a. Welding procedure specifications (WPS) available	X	--	SDI QA/QC-2017 Table 1.3	IBC 1705.2.2
YES	b. Manufacturer certifications for welding consumables available	X	--		
YES	c. Material identification (type/grade)	--	X		
YES	d. Check welding equipment	--	X		
	4. Inspection or Execution Tasks During Welding				
YES	a. Use of qualified welders	--	X	SDI QA/QC-2017 Table 1.4	IBC 1705.2.2
YES	b. Control and handling of welding consumables	--	X		
YES	c. Environmental conditions (wind speed, moisture, temperature)	--	X		
YES	d. WPS followed	--	X		
	5. Inspection or Execution Tasks After Welding				
YES	a. Verify size and location of welds, including support, sideslab, and perimeter welds	X	--	SDI QA/QC-2017 Table 1.5	IBC 1705.2.2
YES	b. Welds meet visual acceptance criteria	X	--		
YES	c. Verify repair activities	X	--		
YES	d. Document acceptance or rejection of welds	X	--		
	6. Inspection or Execution Tasks Prior to Mechanical Fastening				
YES	a. Manufacturer installation instructions avaliable for mechnical fasteners	X	--	SDI QA/QC-2017 Table 1.6	IBC 1705.2.2
YES	b. Proper tools avaliable for fasteners installation	--	X		
YES	c. Proper storage for mechanical fasteners	--	X		
	7. Inspection or Execution Tasks During Mechanical Fastening				
YES	a. Fasteners are positioned as required	--	X	SDI QA/QC-2017 Table 1.7	IBC 1705.2.2
YES	b. Fasteners are installed in accordance with manufacturer's instructions	--	X		
	8. Inspection or Execution Tasks After Mechanical Fastening				
YES	a. Check spacing, type, and installation of support fasteners	X	--	SDI QA/QC-2017 Table 1.8	IBC 1705.2.2
YES	b. Check spacing, type, and installation of sidelap fasteners	X	--		
YES	c. Check spacing, type, and installation of perimeter fasteners	X	--		
YES	d. Verify repair activities	X	--		
YES	e. Document acceptance or rejection of mechanical fasteners	X	--		

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DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

SPECIAL INSPECTIONS

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/09/24	95% CD PHASE
09/03/24	100% CD PHASE
09/18/24	BID SET

9/18/2024

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PROJECT NO: 4240087 TBPE FIRM F-7986

STATE OF TEXAS DAVID A. WALKER 132006 LICENSED PROFESSIONAL ENGINEER

S1.03

PROJECT NO.: Project Number

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.

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.

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 geotechnical 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.

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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
08/09/24	95% CD PHASE
09/03/24	100% CD PHASE
09/18/24	BID SET

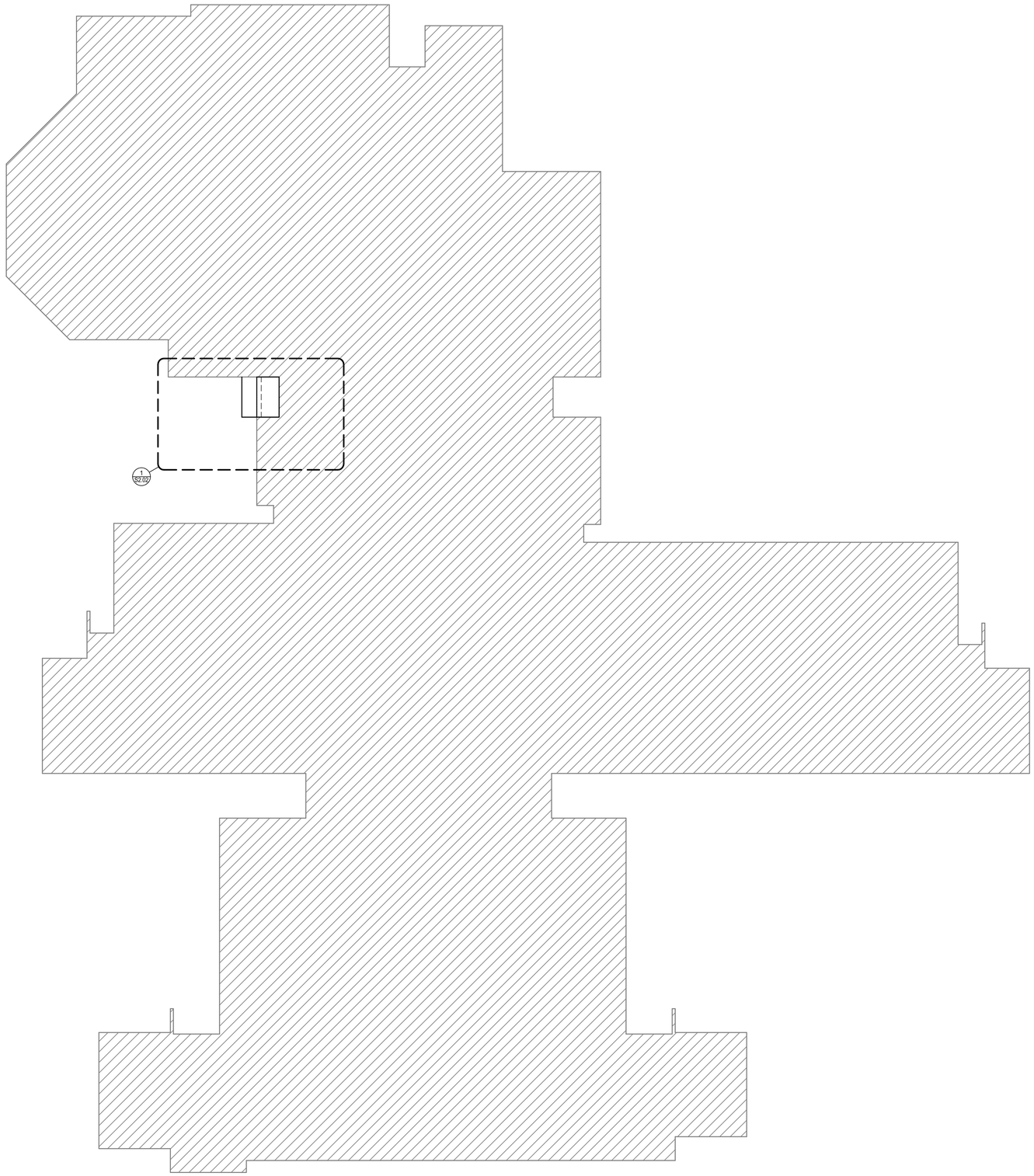
9/18/2024

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 132006 LICENSED PROFESSIONAL ENGINEER

S1.04

PROJECT NO.: Project Number



north

1 OVERALL FOUNDATION PLAN
SCALE: 1/16" = 1'-0"

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OVERALL FOUNDATION PLAN

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/09/24	95% CD PHASE
09/03/24	100% CD PHASE
09/18/24	BID SET

JQi HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING CONDITIONS.

HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

9/18/2024

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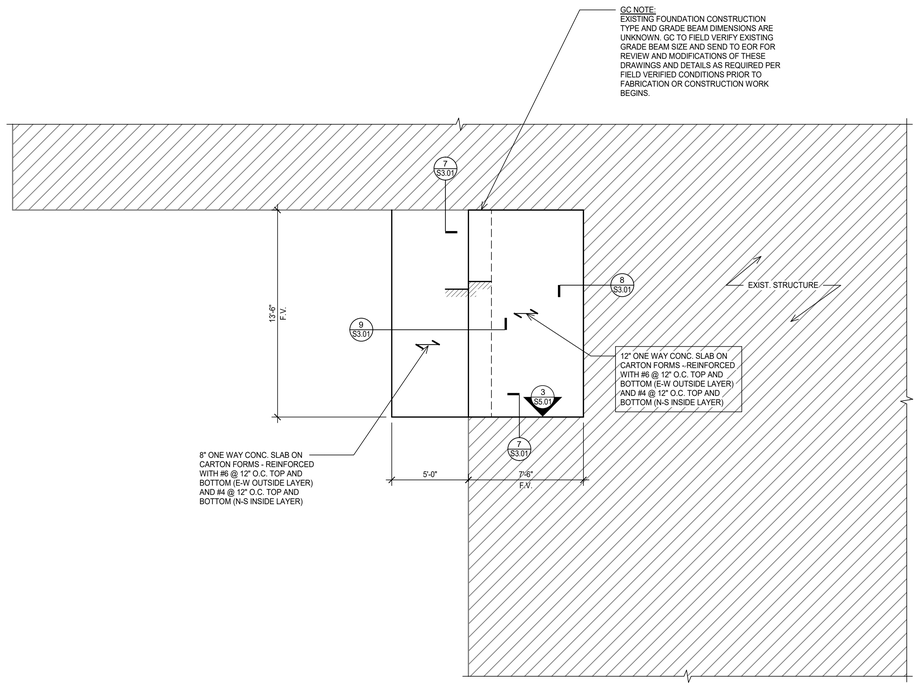
PROJECT NO: 4240087 TBPE FIRM F-7986

STATE OF TEXAS
DAVID A. WALKER
132006
LICENSED PROFESSIONAL ENGINEER

S2.01

PROJECT NO.: Project Number



north

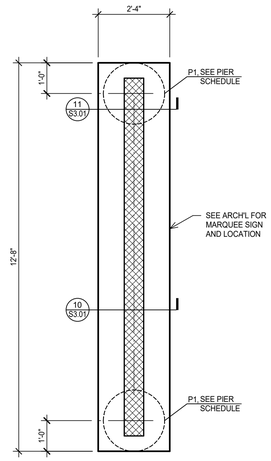
1 ENLARGED VESTIBULE FOUNDATION PLAN

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

PLAN NOTES:

1. EXISTING FINISH FLOOR ELEVATION = 100'-0", UNLESS NOTED OTHERWISE. ACTUAL EXISTING ELEVATION (F.V.) 487.92' = 100'-0".
2. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR RECESSES, DROPS AND SLOPES NOT DIMENSIONED ON PLAN.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF STRUCTURED STOOPS AT ENTRIES.

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



3 SIGNAGE FOUNDATION PLAN

SCALE: 1/2" = 1'-0"

PLAN NOTES:

1. FOR ACTUAL GRADE ELEVATION, SEE CIVIL DRAWINGS.
2. COORDINATE TOP OF PIER ELEVATIONS WITH FINAL GRADING PLAN. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATIONS, ORIENTATIONS AND DIMENSIONS.
3. 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.
4. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO DRILLING PIERS.
5. SIGN ANCHORAGE IS DELEGATED DESIGN BY OTHERS.

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

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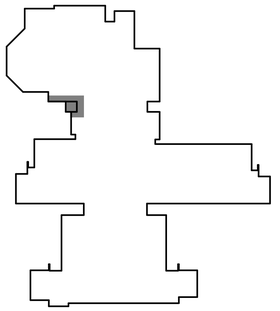

KEYPLAN

JQi HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING CONDITIONS.

HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

9/18/2024

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JQ infrastructure
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PROJECT NO: 4240087 TBPE FIRM F-7986

STATE OF TEXAS
DAVID A. WALKER
132006
LICENSED
PROFESSIONAL ENGINEER

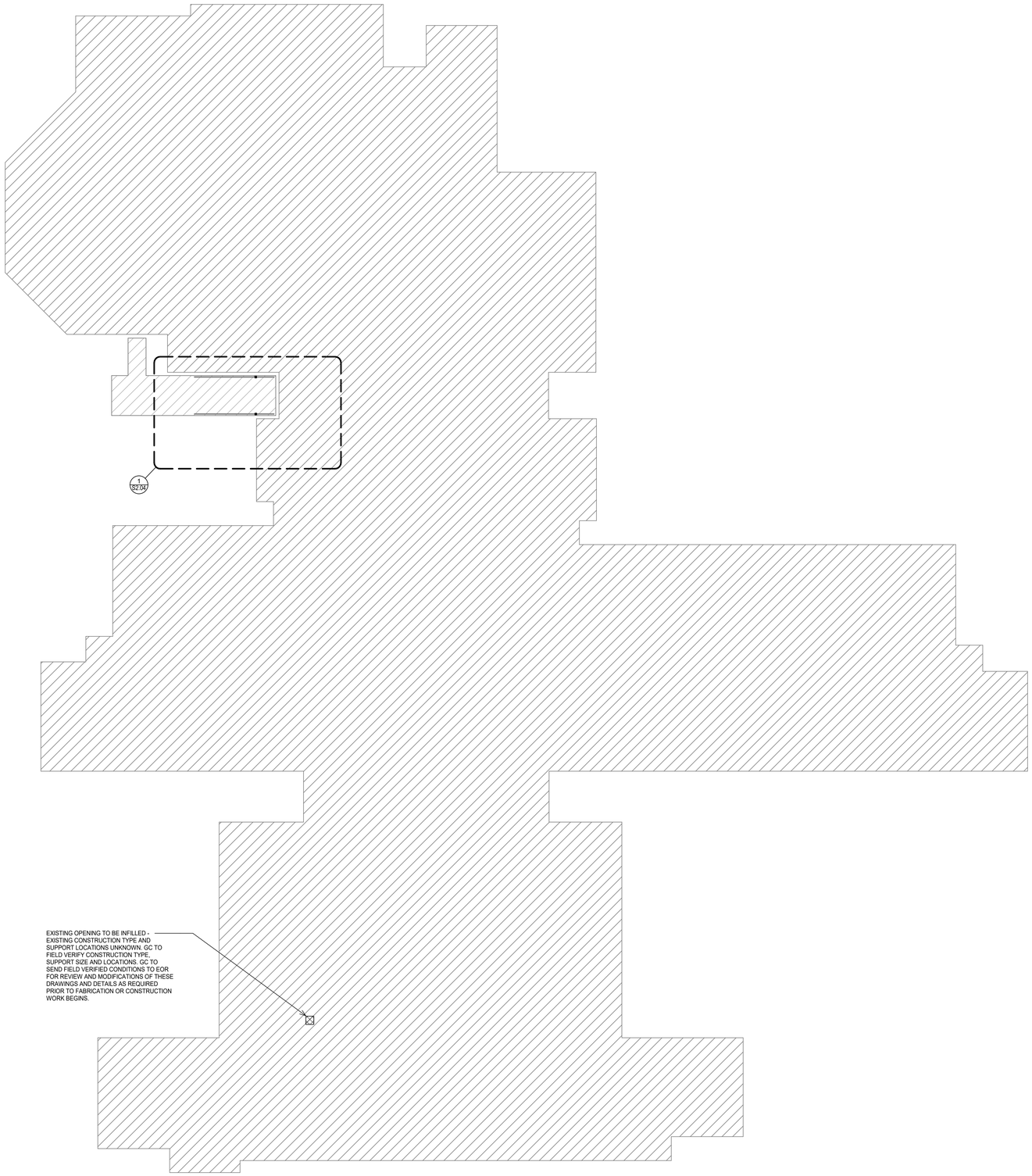
ENLARGED VESTIBULE & MARQUEE SIGN FOUNDATION PLANS

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/09/24	95% CD PHASE
09/03/24	100% CD PHASE
09/18/24	BID SET

S2.02

PROJECT NO.: Project Number



1 OVERALL ROOF FRAMING PLAN

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

PLAN NOTES:

1. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.

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DISD PLEASANT GROVE ELEMENTARY

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OVERALL ROOF FRAMING PLAN

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/09/24	95% CD PHASE
09/03/24	100% CD PHASE
09/18/24	BID SET

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NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

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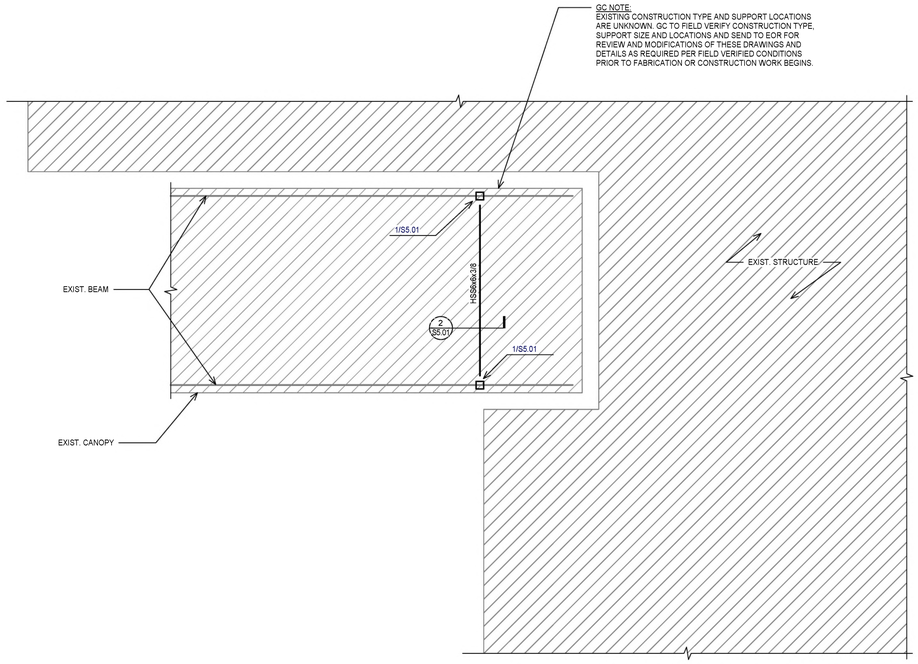
STATE OF TEXAS
DAVID A. WALKER
132006
LICENSED
PROFESSIONAL ENGINEER

S2.03

PROJECT NO.: Project Number



north

1 ENLARGED VESTIBULE ROOF FRAMING PLAN

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

PLAN NOTES:

1. EXISTING DRAWINGS OF THE ORIGINAL BUILDING DESIGN HAVE NOT BEEN LOCATED AND ACTUAL CONDITIONS AT THE ENTRY VESTIBULE WILL NEED TO BE VERIFIED.

SHEET INDEX:

STRUCTURAL NOTES	- S1.01, S1.02
TYPICAL DETAILS	- S5.01

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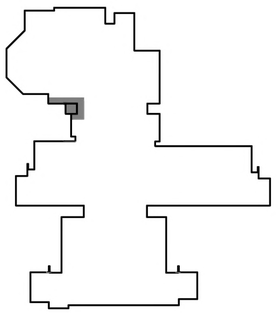

KEYPLAN

JQI HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING CONDITIONS.

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NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

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STATE OF TEXAS
DAVID A. WALKER
1.3.2006
LICENSED PROFESSIONAL ENGINEER

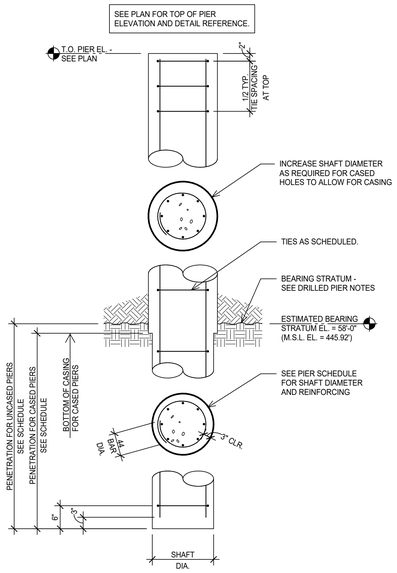
ENLARGED VESTIBULE ROOF FRAMING PLAN

DRAWING RECORD

DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/09/24	95% CD PHASE
09/03/24	100% CD PHASE
09/18/24	BID SET

S2.04

PROJECT NO.: Project Number



ELEVATION

PIER SCHEDULE - STRAIGHT SHAFT					
MARK	SHAFT DIAMETER	VERTICAL BARS	TIES	PENET.	CAPACITY (ASD)
P1	2'-0"	7-#9	#3 @ 12" O.C.	15'-0"	605 KIPS

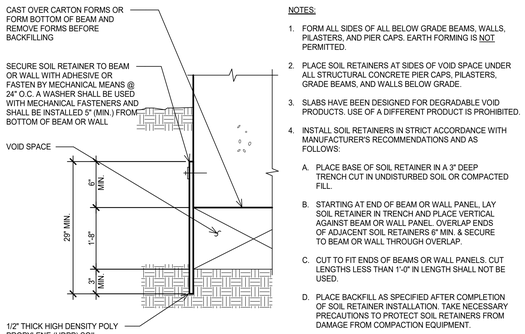
1 TYPICAL CASED DRILLED PIER DETAIL
NO SCALE

ELEVATION

NOTES:

1. BAR SPLICE LENGTHS SHALL BE AS INDICATED UNLESS SCHEDULED OR NOTED OTHERWISE.

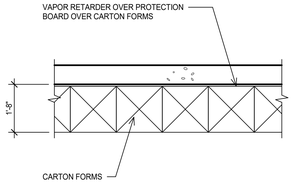
5 TYPICAL GRADE BEAM REINFORCING DETAIL
NO SCALE



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



NOTES:

1. REPLACE CARTON FORMS THAT HAVE BEEN DAMAGED OR IF THEY BECOME SATURATED AND WEAK. TAKE SPECIAL CARE TO PREVENT CRUSHING OF CARTON FORMS DURING PLACEMENT OF REINFORCING AND CONCRETE.
2. SLABS HAVE BEEN DESIGNED FOR DEGRADABLE VOID PRODUCTS. USE OF A DIFFERENT PRODUCT IS PROHIBITED.

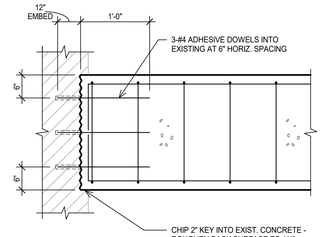
3 TYPICAL SLAB-ON-VOID DETAIL
NO SCALE

DOWEL SCHEDULE			
MARK	SIZE	A	B
DWL-A	#4	8"	3'-0"
DWL-B	#4	3'-0"	3'-0"
DWL-C	#4	-	4'-0"
DWL-D	3/4" DIA. THD.	-	4'-0"
DWL-E	1/2" DIA. THD.	-	3'-0"

NOTES:

1. SCHEDULED DOWELS ARE MARKED "DWL" ON THE SECTIONS AND DETAILS.
2. DOWEL SPACING TO BE THE SAME AS VERTICAL BEAM OR WALL REINFORCEMENT UNLESS NOTED OTHERWISE ON DETAILS.
3. DOWELS WITH "THD." IN "SIZE" COLUMN SHALL BE RICHMOND "CONTINUOUS THREADED LAGSTUD (2/25)" WITH RICHMOND "STANDARD 1/2"x4" 2/15 ANCHOR W/ WASHER" FOR 1/2" DIA. DOWELS AND "STANDARD 3/4"x6" 2/15 ANCHOR W/ WASHER" ANCHORS FOR 3/4"Ø DOWELS OR EQUAL.

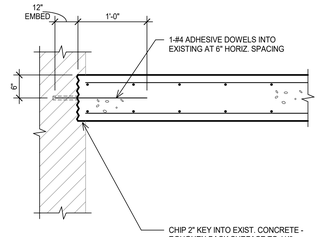
4 DOWEL SCHEDULE
NO SCALE



NOTES:

1. BONDING AGENT SHALL BE:
   a. SIKA ARMATEC 110
   b. EUCLID DURALPREP A.C.
   c. BASF MASTEREMACO P124
   d. APPROVED EQUAL
2. GC TO LOCATE EXISTING REINF. BY NON-DESTRUCTIVE MEANS PRIOR TO POST-INSTALLING DWLS

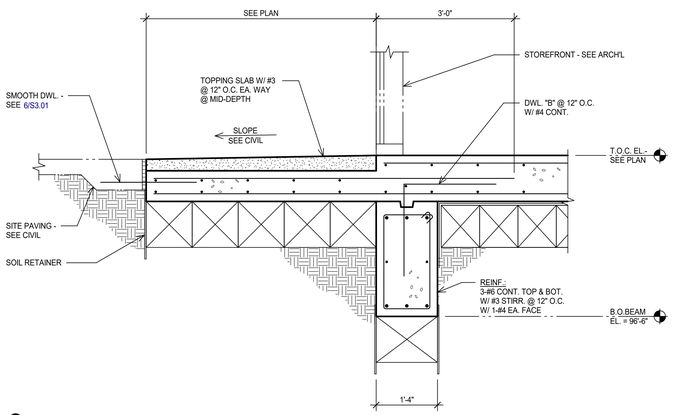
7 TYPICAL CONNECTION OF NEW CONCRETE BEAM TO EXISTING
NO SCALE



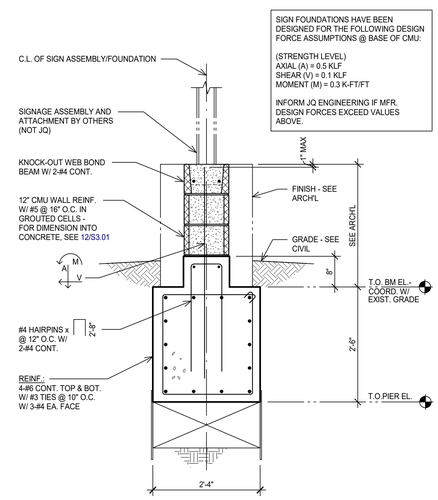
NOTES:

1. BONDING AGENT SHALL BE:
   a. SIKA ARMATEC 110
   b. EUCLID DURALPREP A.C.
   c. BASF MASTEREMACO P124
   d. APPROVED EQUAL
2. GC TO LOCATE EXISTING REINF. BY NON-DESTRUCTIVE MEANS PRIOR TO POST-INSTALLING DWLS

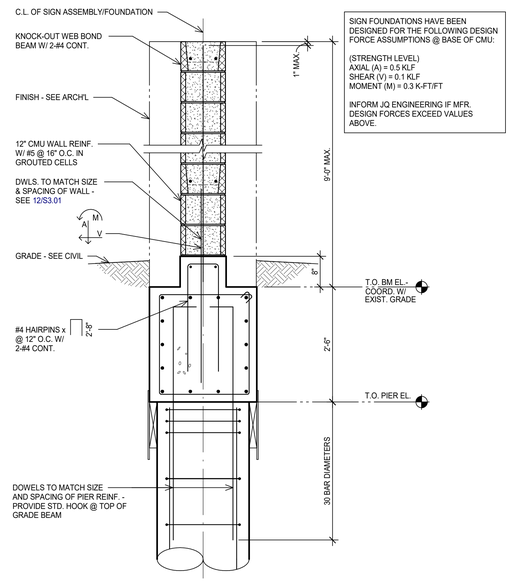
8 TYPICAL CONNECTION OF NEW CONCRETE SLAB TO EXISTING
NO SCALE



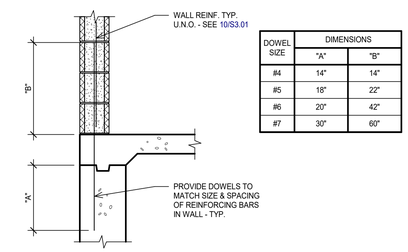
9 TYPICAL CANTILEVERED STOOP SECTION
NO SCALE



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



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



DOWEL SIZE	DIMENSIONS	
	"A"	"B"
#4	14"	14"
#5	18"	22"
#6	20"	42"
#7	30"	60"

CAST-IN-PLACE (STRAIGHT BAR)

NOTES:

1. MASONRY DOWELS SHALL BE TIED IN PRIOR TO CONCRETE PLACEMENT. MASONRY DOWELS SHALL NOT BE "STABBED" IN.

12 TYPICAL MASONRY WALL DOWEL DETAIL
NO SCALE

9/18/2024

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STATE OF TEXAS
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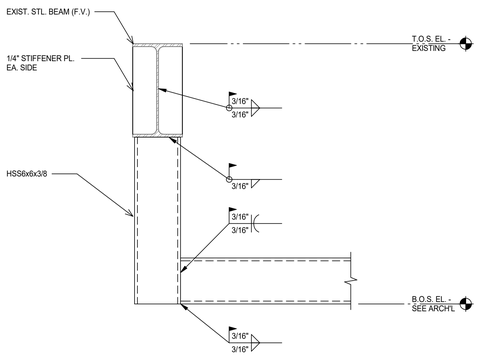
TYPICAL CONCRETE DETAILS

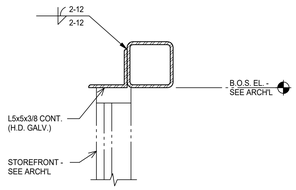
DRAWING RECORD	
DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/09/24	95% CD PHASE
09/03/24	100% CD PHASE
09/18/24	BID SET

S3.01

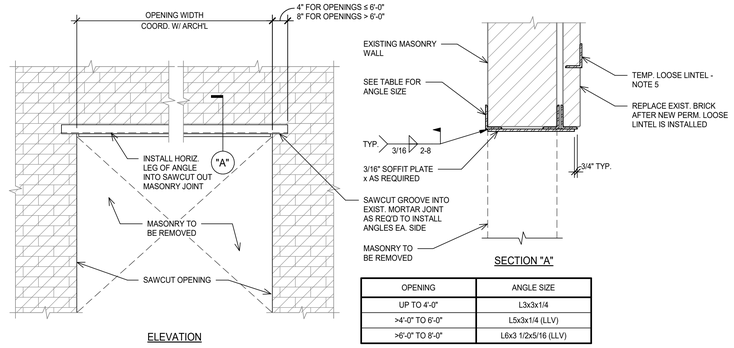
PROJECT NO.: Project Number



1 TYPICAL HANGER DETAIL
NO SCALE



2 TYPICAL STOREFRONT DETAIL
NO SCALE



ELEVATION

SECTION "A"

OPENING	ANGLE SIZE
UP TO 4'-0"	L3x3x1/4
>4'-0" TO 6'-0"	L5x3x1/4 (LLV)
>6'-0" TO 8'-0"	L6x3 1/2x5/16 (LLV)

NOTES:

1. SEE ARCH'L DRAWINGS FOR OPENING SIZE & LOCATION.
2. SAW CUT AND INSTALL ANGLES PRIOR TO REMOVING MASONRY AT OPENING.
3. INSTALL SOFFIT PLATE AFTER MASONRY HAS BEEN REMOVED.
4. ANGLES AND PLATE SHALL BE H.D. GALVANIZED IF PERMANENTLY EXPOSED TO THE WEATHER. TOUCH UP WITH COLD GALV. AFTER WELDING.
5. TEMPORARY LOOSE LINTEL TO BE INSTALLED AND REMOVED AFTER PERMANENT LOOSE LINTELS ARE INSTALLED.

3 TYPICAL MASONRY LINTEL DETAIL AT EXISTING WALL
NO SCALE

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9/18/2024

shaping the built environment
JQ INFRASTRUCTURE, LLC
3017 WEST 7TH STREET, SUITE 400
817.546.7200
FORT WORTH, TEXAS 76107
JQENG.COM
PROJECT NO: 4240087
TBPE FIRM F-7986

STATE OF TEXAS
DAVID A. WALKER
113206
LICENSED PROFESSIONAL ENGINEER

TYPICAL STEEL DETAILS

DRAWING RECORD	
DATE	DESCRIPTION
04/29/24	SD PHASE
05/20/24	DD PHASE
06/21/24	50% CD PHASE
08/09/24	95% CD PHASE
09/03/24	100% CD PHASE
09/18/24	BID SET

S5.01

PROJECT NO.: Project Number

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
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
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
X	ANCHOR POINT
	AUTOMATIC AIR VENT
	BALANCE VALVE
	BALL VALVE
	BELLOWS TYPE EXPANSION JOINT
	BLIND FLANGE
	BUTTERFLY VALVE
	CAP
	CHECK VALVE
C	CO2 SENSOR
C.R.	CONCENTRIC REDUCER
	DIFFERENTIAL PRESSURE REDUCING REGULATOR
D	DROP IN DUCT
SD	DUCT MOUNTED SMOKE DAMPER
E.R.	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
M T	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

DIFFUSER CALLOUT KEY

XX	AIR TERMINAL TAG
X"	DUCT NECK SIZE
CFM	AIR QUANTITY IN CUBIC FEET PER MINUTE

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 SHEET

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

M0.01

PROJECT NO.: 2023208

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

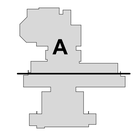
NOTES BY SYMBOL:	
1	DISCONNECT AND DEMOLISH 2.5-TON SPLIT SYSTEM INDOOR UNIT SERVING DATA ROOM.
3	DEMOLISH VAV BOX AND ASSOCIATED DUCTWORK. DEMOLISH BRANCH TAKEOFF FROM EXISTING DUCT MAIN. PATCH AND REPAIR EXISTING DUCT MAIN.
4	DISCONNECT AIR DEVICE FROM DUCTWORK. DEMOLISH AIR DEVICE.
5	DISCONNECT AIR DEVICE FROM DUCTWORK. DEMOLISH AIR DEVICE. DEMOLISH ASSOCIATED DUCTWORK BACK TO MAIN AND CAP.
6	DEMOLISH TEMPERATURE SENSING DEVICE AND ASSOCIATED CONTROL WIRING. PATCH AND REPAIR WALL PER ARCHITECTURAL SPECIFICATION.
7	REMOVE THERMOSTAT FROM WALL FOR RELOCATION. SEE SHEET M1.01 FOR NEW THERMOSTAT LOCATION. DEMOLISH CONRTOL WIRING AS NECESSARY TO ACCOMMODATE REINSTALL LOCATION.
8	RELOCATE CO MONITOR ALARM PANEL. SEE SHEET M1.01 FOR NEW PANEL LOCATION.
9	DISCONNECT GAS-FIRED WATER HEATER FROM COMBUSTION AIR AND VENT PIPING. PREPARE COMBUSTION AIR AND VENT PIPING FOR CONNECTION TO NEW GAS-FIRED WATER HEATER.

TRUE NORTH / PLAN NORTH

1 MECHANICAL DEMOLITION PLAN 'A'

SCALE: 3/32" = 1'-0"

KEY PLAN



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MECHANICAL DEMOLITION PLAN 'A'

DRAWING RECORD	
DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

M0.10

PROJECT NO.: 2023208

LEGEND

(solid line)	EXISTING TO REMAIN
(dashed line)	DEMOLITION
(shaded)	NOT IN SCOPE

NOTES BY SYMBOL:

1	DISCONNECT AND DEMOLISH 3 TON DUCTLESS SPLIT SYSTEM UNIT SERVING DATA ROOM.
2	DISCONNECT AND DEMOLISH CEILING EXHAUST FAN AND ASSOCIATED DUCTWORK.

TRUE NORTH PLAN NORTH

1 MECHANICAL DEMOLITION PLAN 'B'
SCALE: 3/32" = 1'-0"

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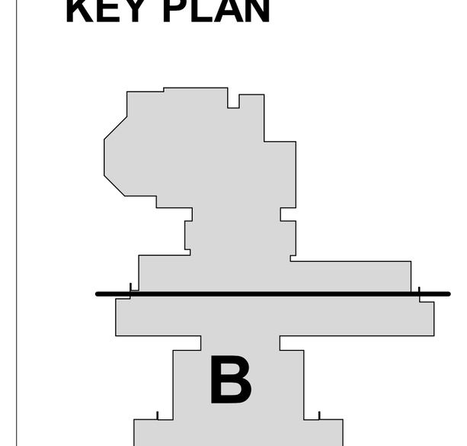
MECHANICAL DEMOLITION PLAN 'B'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

KEY PLAN



M0.20

PROJECT NO.: 2023208

LEGEND	
	EXISTING TO REMAIN
	DEMOLITION
	NOT IN SCOPE

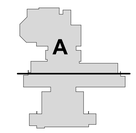
NOTES BY SYMBOL:	
1	DEMOLISH DX SPLIT SYSTEM CONDENSING UNIT. DEMOLISH ASSOCIATED ROOF CURB, REFRIGERANT PIPING, AND CONTROLS.

TRUE NORTH / PLAN NORTH

1 MECHANICAL DEMOLITION ROOF PLAN 'A'

SCALE: 3/32" = 1'-0"

KEY PLAN



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MECHANICAL DEMOLITION ROOF PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

M0.30

PROJECT NO.: 2023208

LEGEND	
	EXISTING TO REMAIN
	DEMOLITION
	NOT IN SCOPE

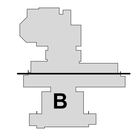
NOTES BY SYMBOL:	
1	DEMOLISH DX SPLIT SYSTEM CONDENSING UNIT. DEMOLISH ASSOCIATED ROOF CURB, REFRIGERANT PIPING, AND CONTROLS.
2	DEMOLISH EXHAUST ROOF CAP.

TRUE NORTH / PLAN NORTH

1 MECHANICAL DEMOLITION ROOF PLAN 'B'

SCALE: 3/32" = 1'-0"

KEY PLAN



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MECHANICAL DEMOLITION ROOF PLAN 'B'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

M0.40

PROJECT NO.: 2023208

LEGEND

- EXISTING TO REMAIN
- 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.
4. SEAL ALL DUCTWORK TO INTENDED PRESSURE CLASSIFICATION.

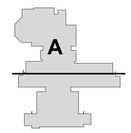
NOTES BY SYMBOL:

1	PROVIDE NEW DX SPLIT SYSTEM INDOOR UNIT SERVING DATA ROOM.
3	PROVIDE NEW DUCTWORK AND DIFFUSERS SERVING CLASSROOM. CONNECT TO EXISTING MAIN ABOVE CEILING AS SHOWN.
4	PROVIDE NEW SUPPLY AIR DIFFUSER. PROVIDE WITH DUCT CONNECTION AS SHOWN. CONNECT NEW BRANCH DUCT TO DIFFUSER TO EXISTING DUCTWORK ABOVE CEILING.
5	PROVIDE NEW VAV BOX WITH ELECTRIC HEAT. CONNECT 10" INLET DUCT TO EXISTING DUCT MAIN ABOVE CEILING.
6	REINSTALL THERMOSTAT AT THIS LOCATION. PROVIDE CONTROL WIRING EXTENSIONS AS NECESSARY.
7	PROVIDE NEW 3/8" LIQUID AND 5/8" GAS REFIGERANT PIPING. ROUTE REFRIGERANT PIPING FROM AHU TO CU-147B ON ROOF. REUSE EXISTING ROOF PENETRATIONS.
8	PROVIDE AHU WITH 1" CONDENSATE DRAIN PIPING. ROUTE CONDENSATE DRAIN TO EXISTING FLOOR DRAIN AND TERMINATE WITH AIR GAP.
9	PROVIDE GWH-1 WITH CONCENTRIC VENT KIT PER MANUFACTURER. REUSE EXISTING ROOF PENETRATIONS.
10	RELOCATE CO DETECTION ALARM PANEL TO THIS LOCATION. PROVIDE WIRING EXTENSION AS NECESSARY.

1 MECHANICAL PLAN 'A'
SCALE: 3/32" = 1'-0"

TRUE NORTH
PLAN NORTH

KEY PLAN



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MECHANICAL PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

M1.01

PROJECT NO.: 2023208

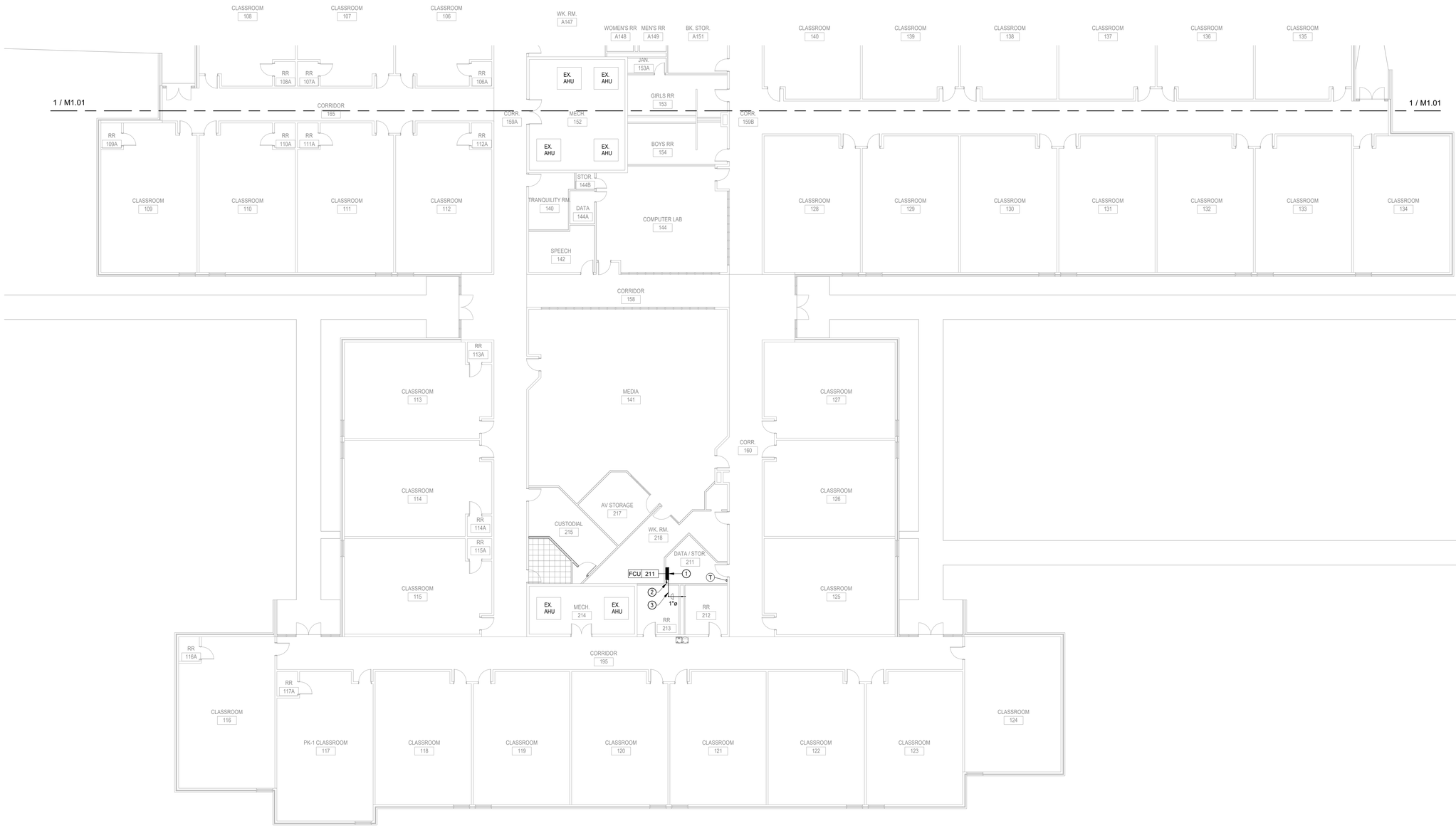
LEGEND	
	EXISTING TO REMAIN
	NEW
	NOT IN SCOPE

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.
4. SEAL ALL DUCTWORK TO INTENDED PRESSURE CLASSIFICATION.

NOTES BY SYMBOL:

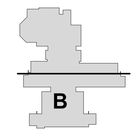
1	PROVIDE NEW MINI-SPLIT INDOOR UNIT SERVING DATA ROOM. UNIT SHALL BE MOUNTED 7' A.F.F.
2	PROVIDE NEW 3/8" LIQUID AND 5/8" GAS REFIGERANT PIPING. ROUTE REFRIGERANT PIPING FROM FCU-211 TO CU-211 ON ROOF. REUSE EXISTING ROOF PENETRATIONS.
3	PROVIDE FCU WITH 1" CONDENSATE DRAIN PIPING. ROUTE CONDENSATE DRAIN TO NEAREST LAVATORY TAILPIECE AND TERMINATE WITH AIR GAP.



TRUE NORTH / PLAN NORTH

1 MECHANICAL PLAN 'B'
SCALE: 3/32" = 1'-0"

KEY PLAN



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114733
LICENSED PROFESSIONAL ENGINEER

09/18/2024

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MECHANICAL PLAN 'B'

DRAWING RECORD	
DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

M1.02

PROJECT NO.: 2023208

LEGEND	
	EXISTING TO REMAIN
	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.
4. SEAL ALL DUCTWORK TO INTENDED PRESSURE CLASSIFICATION.

NOTES BY SYMBOL:

1	PROVIDE NEW LIQUID AND GAS REFIGERANT PIPING. ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT TO AHU-147B BELOW. REUSE EXISTING ROOF PENETRATIONS.
2	PROVIDE NEW CONDENSING UNIT. MOUNT CONDENSING UNIT ON NEW ROOF CURB. REFER TO DETAIL.

TRUE NORTH / PLAN NORTH

1 MECHANICAL ROOF PLAN 'A'

SCALE: 3/32" = 1'-0"

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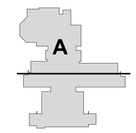
KEY PLAN



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MECHANICAL ROOF PLAN 'A'

DRAWING RECORD	
DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

M1.03

PROJECT NO.: 2023208

LEGEND	
	EXISTING TO REMAIN
	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.
4. SEAL ALL DUCTWORK TO INTENDED PRESSURE CLASSIFICATION.

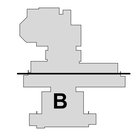
NOTES BY SYMBOL:

1	ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT TO FCU-211 BELOW. REUSE EXISTING ROOF PENETRATIONS.
2	PROVIDE NEW CONDENSING UNIT. MOUNT CONDENSING UNIT ON NEW ROOF SUPPORTS (SEE DETAIL).

1 MECHANICAL ROOF PLAN 'B'
SCALE: 3/32" = 1'-0"

TRUE NORTH
PLAN NORTH

KEY PLAN



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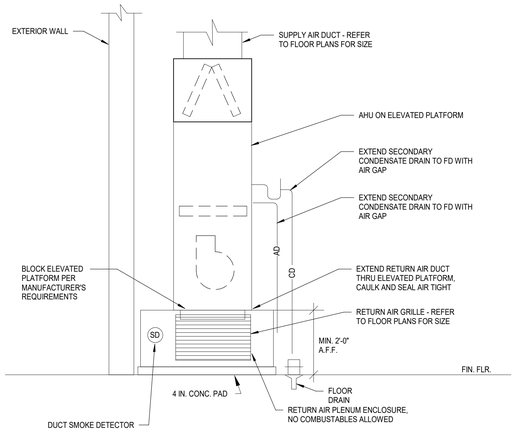
MECHANICAL ROOF PLAN 'B'

DRAWING RECORD	
DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

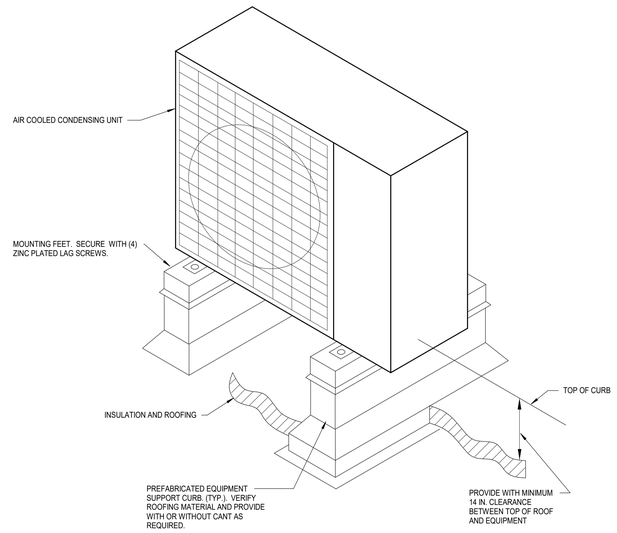
M1.04

PROJECT NO.: 2023208



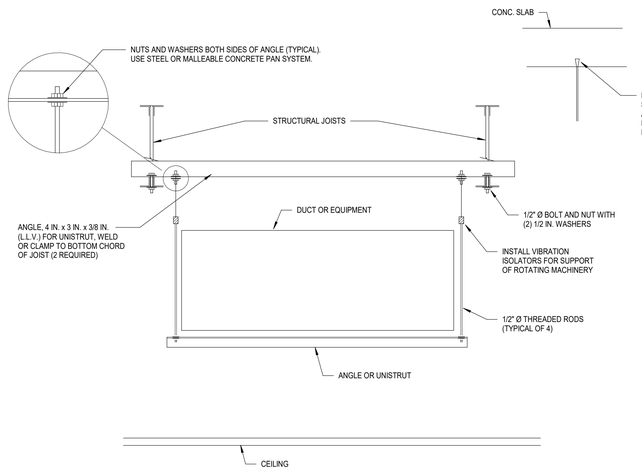
5 VERTICAL MDF ROOM AHU DETAIL

SCALE: NOT TO SCALE



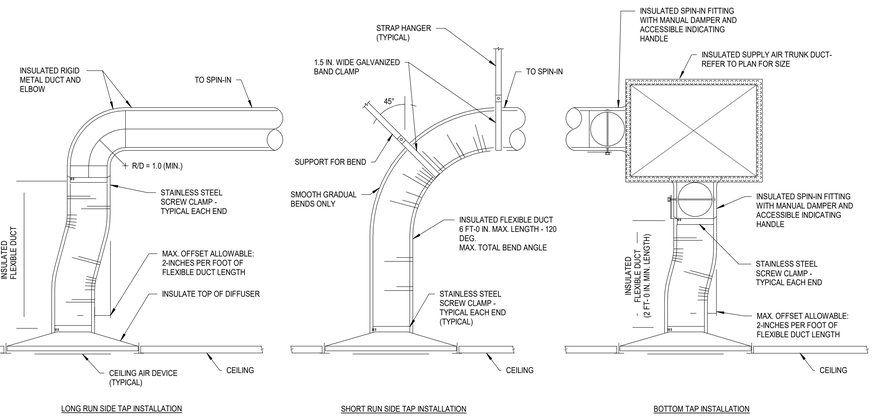
3 CONDENSING UNIT DETAIL

SCALE: NOT TO SCALE



7 TYPICAL DUCT/EQUIP. SUPPORT DETAIL

SCALE: 12" = 1'-0"



DETAIL NOTES:

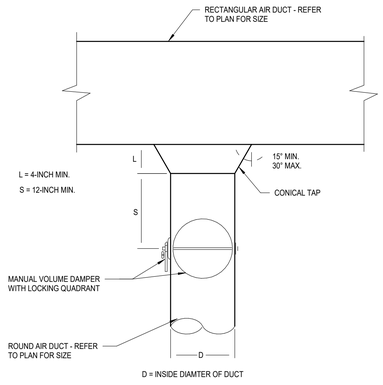
1. THREE INSTALLATION OPTIONS ARE SHOWN. PROVIDE THE MOST SUITABLE OPTION BASED UPON ACTUAL DUCT LAYOUT, AIR DEVICE LOCATION, AND FIELD CONDITIONS. PREFERRED INSTALLATION IS SHORT RUN SIDE TAP. WHERE FLEXIBLE DUCT RUN EXCEEDS THE MAXIMUM ALLOWABLE LENGTH, PROVIDE THE LONG RUN SIDE TAP INSTALLATION.
2. 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.

2 LOW PRESSURE BRANCH DUCT to DIFFUSER

SCALE: NOT TO SCALE

6 RETURN AIR GRILLE FILTER FRAME

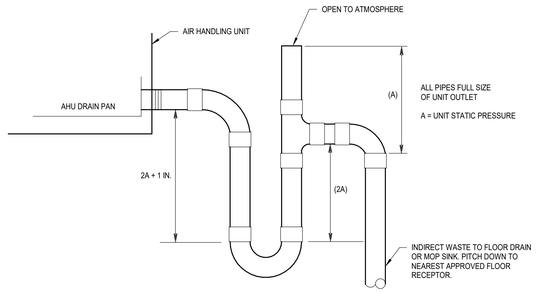
SCALE: NOT TO SCALE



NOTE:
1. TYPICAL INSTALLATION DETAIL TO BE APPLIED TO ROUND BRANCH DUCT TAKEOFFS FROM RECTANGULAR TRUNK DUCTS. APPLIES TO SUPPLY, RETURN, AND EXHAUST AIR DUCTS.

4 TYPICAL LOW PRESSURE ROUND DUCT BRANCH TAKE-OFF

NOT TO SCALE



1 CONDENSATE DRAIN DETAIL

SCALE: NOT TO SCALE

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MECHANICAL DETAILS

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

M3.01

PROJECT NO.: 2023208

DUCTED SPLIT SYSTEM SCHEDULE

INDOOR UNIT				COOLING COIL (DX)						INDOOR UNIT														OUTDOOR UNIT												
					EAT (°F)		CAPACITY (MBH)				SUPPLY FAN				ELECTRICAL DATA								DESIGN BASIS				ELECTRICAL DATA								DESIGN BASIS		
TAG	NUMBER	SERVES	RELATED CONDENSING UNIT	NOM. TON.	DB	WB	SENSIBLE	TOTAL	REFRIGERANT	MOUNTING	CFM	MIN. OA CFM	ESP (IN. W.G.)	FAN HP	V	PH	HZ	MCA	MOCP	FILTER TYPE	DIMENSIONS (L x W x H) (IN)	WEIGHT (LB)	MANUFACTURER	MODEL	LOCATION	SEER 2	COMPRESSOR QTY	CONDENSER FAN QTY	V	PH	HZ	MCA	MOCP	WEIGHT (LB)	MANUFACTURER	MODEL	NOTES
AHU	147B	147B - DATA	CU - 147B	3	80.0	67.0	27	36	R410A	VERTICAL	1,200	0	0.3	1/3	208	1	60	3.5	15	PLEATED	46 x 21 x 24	110	TRANE	TEM4A0B36S31SC	ROOF	14.3	1	1	208	3	60	14.1	25	245	TRANE	4TTA7036A3000A	1 - 6

NOTES:

1. RATING CONDITIONS FOR COOLING: INDOOR - 80°F DB, 67 °F WB; OUTDOOR: 95°F DB, 75°F WB.
2. PROVIDE ALL UNITS WITH FACTORY-SUPPLIED SINGLE POINT ELECTRICAL CONNECTION WITH MEANS OF DISCONNECT.
3. PROVIDE ALL INDOOR UNITS WITH A CONDENSATE PUMP. ASPEN MODEL MINI-TANK OR APPROVED EQUAL.
4. PROVIDE ALL OUTDOOR UNITS WITH MANUFACTURER'S ROOF MOUNTING STAND.
5. PROVIDE ALL OUTDOOR UNITS WITH HAIL GUARDS PAINTED TO MATCH CASING.
6. PROVIDE ALL OUTDOOR UNITS WITH WIRED 120V/25A GFCI RECEPTACLE. RECEPTACLE SHALL REMAIN POWERED WHEN DISCONNECT IS SHUT OFF. WHERE FACTORY WIRING IS NOT AN OPTION, MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO POWER THE RECEPTACLE.
7. UNIT SHALL BE COOLING ONLY.

DUCTLESS SPLIT SYSTEM SCHEDULE (COOLING ONLY)

ENTIRE SYSTEM															INDOOR UNIT		OUTDOOR UNIT						
								ELECTRICAL DATA															
DESIGNATION (INDOOR/OUTDOOR)	SERVES	NOM. TON.	CFM (HIGH/MEDIUM/LOW)	COOLING CAPACITY (BTUH)	REFRIGERANT	SEER 2	MOUNTING	V	PH	HZ	MCA	MOCP	MANUFACTURER	WEIGHT (LB)	MODEL	LOCATION	COMPRESSOR QTY	CONDENSER FAN QTY	WEIGHT (LB)	MODEL	NOTES
FCU-211 / CU-211	211 - DATA / STOR.	3.0	883 / 42 / 601	33,000	R410A	14.3	WALL	208	1	60	23	30	LG	48	LSN363HLV3	ROOF	1	1	207	LSU363HLV3	SEE BELOW

OUTDOOR UNIT NOTES:

1. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
2. CONTRACTOR TO VERIFY PIPING DIMENSIONS WITH MANUFACTURER.
3. HEAT PUMP TO BE PROVIDED WITH HAIL GUARDS.
4. UNIT DIMENSIONS DO NOT INCLUDE THE CURB HEIGHT.
5. PROVIDE LG MULTISITECRC1 REMOTECONTROLLER OR OTHER BACNET CAPABLE THERMOSTAT.
6. FIELD SUPPLIED BRANCH FITTINGS ARE NOT PERMITTED. ONLY LG FITTINGS SHLL BE USED.
7. HOUSEKEEPING PAD TO BE 4 INCHES LARGER THAN EQUIPMENT ON ALL SIDES.

INDOOR UNITS NOTES:

8. INDOOR UNITS POWERED THROUGH OUTDOOR UNIT.
9. PROVIDE WALL MOUNTED UNIT WITH CONDENSATE PUMP, LITTLE GIANT#EC-1K - 0.18 AMPS / 18 WATTS / 120/1/60.
10. PROVIDE WITH FACTORY INSTALLED LEAK DETECTION.
11. PROVIDE WITH REMOTE CONTROLLER.
12. PROVIDE UNIT WITH FRONT FACE RETURN LOCATION FOR RETURN DIRECTLY TO UNIT.

SINGLE DUCT VAV TERMINAL UNIT W/ ELECTRIC HEATING COIL

TAG	NUMBER	SERVES	ASSOCIATED AHU	INLET SIZE (IN.)	PRIMARY CFM	MIN. PRIMARY CFM	MAX RADIATED NC	ELECTRIC HEATING COIL		MANUFACTURER	MODEL	NOTES
								KW	AMPS			
VAV	01	RECEPTION	EXISTING AHU	8	810	200	25	1	8.33	TRANE	VCWF08	1

NOTES:

1. PROVIDE WITH SPACE TEMPERATURE SENSOR.
2. PROVIDE WITH SCR CONTROL.

AIR DEVICE SCHEDULE

TAG	TYPE	MAX RADIATED NC	DESIGN BASIS		DESCRIPTION	NOTES
			MANUFACTURER	MODEL		
A	CEILING SUPPLY DIFFUSER	30	PRICE	SCD	24"x24" LOUVERED SUPPLY AIR DIFFUSER. NECK SIZE AS INDICATED ON PLANS; COLOR TO BE APPROVED BY ARCHITECT. PROVIDE SECTORIZING BAFFLES WHERE ALTERNATE THROW DIRECTIONS ARE REQUIRED.	1 - 4
B	RETURN AIR DIFFUSER	30	PRICE	PDDR	24"x24" PERFORATED FACE CEILING RETURN GRILLE; ALL STEEL; NECK SIZE AS INDICATED ON PLANS; BAKED ENAMEL FINISH; COLOR TO BE APPROVED BY ARCHITECT.	1 - 3
C	SUPPLY AIR DIFFUSER	30	PRICE	SCD	12"x12" LOUVERED SUPPLY AIR DIFFUSER. COLOR TO BE APPROVED BY ARCHITECT. PROVIDE SECTORIZING BAFFLES WHERE ALTERNATE THROW DIRECTIONS ARE REQUIRED.	1 - 4
D	RETURN AIR DIFFUSER	30	PRICE	PDDR	12"x12" 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	SIDEWALL SUPPLY DIFFUSER	30	PRICE	520	DOUBLE DEFLECTION SUPPLY GRILLE WITH 3/4" BLADE SPACING. SURFACE MOUNTED. NECK SIZE AS INDICATED ON PLANS. COLOR TO BE APPROVED BY ARCHITECT.	1 - 4

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.
4. ALL SUPPLY AIR DIFFUSERS ARE TO BE FACTORY THERMALLY INSULATED.

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MECHANICAL EQUIPMENT SCHEDULES

DRAWING RECORD

DATE	DESCRIPTION
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M4.01

PROJECT NO.: 2023208

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
- OPPOSED BLADE DAMPER- PNEUMATIC ACTUATOR WITH POSITIONER
- PARALLEL BLADE DAMPER- PNEUMATIC ACTUATOR WITH POSITIONER
- 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
- DH — ELECTRIC DUCT HEATER
- GFH — 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

CONTROL ELECTRICAL COMPONENTS

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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DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

ORG 273 DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

MECHANICAL CONTROLS COVER SHEET

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

M5.01

PROJECT NO.: 2023208

CONTROLS SUMMARY

SCHOOL:	PLEASANT GROVE ES					
EQUIPMENT	DESIGNATION	LOCATION	SERVES	E/R/N*	BASE BID	NOTES
VAV TERMINAL UNIT	VAV-1	CORRIDOR CEILING	ADMINISTRATION	N	YES	1 & 2
SPLIT SYSTEM	AHU-147B / CU-147B	FACULTY 147 / ROOF	DATA 147B	N	YES	1 & 2
MINI-SPLIT SYSTEM	FCU-211 / CU-211	DATA 211 / ROOF	DATA 211	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.

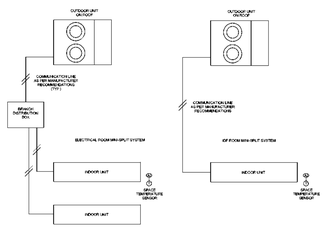
1.1 MDF / IDF Rooms:

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 SYSTEM CONTROL SCHEMATIC

SCALE: NOT TO SCALE

1.7 VAV TERMINAL UNIT WITH ELECTRIC REHEAT:

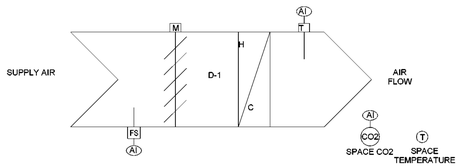
A. General: The variable air volume (VAV) terminal unit with electric reheat to serve intended spaces. The Control System Contractor is to provide a dedicated stand-alone DDC controller for each unit.

B. Unit Enabling/Disabling:
1. The EMCS 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.

C. 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. During warm-up, the VAV box modulates to max heating CFM and the electric heat is disabled. Once the occupied setpoint temperature threshold has been reached, the EMCS switches the VAV box to the occupied mode.
   d. During cool-down, the VAV box modulates to max cooling CFM and the electric heat is disabled. Once the occupied setpoint temperature threshold has been reached, the EMCS switches the VAV box to the occupied mode.
2. Occupied Mode:
   a. 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.
   b. On a rise in space temperature, the unit modulates to provide max cooling CFM. As space temperature decreases, the box modulates down to its minimum cooling CFM. As the space temperature continues to fall to below the spaces heating set point, the VAV terminal modulates its heating minimum heating CFM. The VAV box modulates CFM to maintain space temperature setpoint.
   c. The unit enters heating mode only if outside air temperature is below 60° F (adjustable).
3. Unoccupied Mode: The VAV box to modulate CFM as needed to maintain unoccupied space temperature setpoints.

D. Control Points:

Description	Type
Space Temperature	AI
Discharge Air Temperature	AI
Discharge Air CFM Flow	AI
Damper Position	AO
Electric Heater	AO



1 VAV TERMINAL UNIT CONTROL SCHEMATIC

SCALE: NOT TO SCALE

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M5.02

PROJECT NO.: 2023208

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 / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
OFL	OVERFLOW LEADER
ORD	OVERFLOW ROOF DRAIN
P/A	PRE-ACTION
PA	PUBLIC ANNOUNCEMENT
PC	PLUG COCK or PULL CHAIN
PE	PNEUMATIC ELECTRIC SWITCH
PH	PHASE
PIV	POST INDICATOR VALVE
PO	PLUGGED OUTLET
PRESS	PRESSURE
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

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.

PIPE LINE STYLES

- DOMESTIC COLD WATER
- SANITARY WASTE
- SANITARY VENT

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
- 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
- FLOW SWITCH (FS)
- 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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LEGEND

- EXISTING TO REMAIN
- DEMOLITION
- NOT IN SCOPE

PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING PIPING, INVERTS AND EXACT LOCATIONS OF EXISTING PLUMBING EQUIPMENT BEFORE BEGINNING ANY WORK.
2. INSTALL ISOLATION VALVES AT EACH FIXTURE OR RESTROOM GROUP OF FIXTURES. NO VALVES SHALL BE INSTALLED OVER 11'-0" A.F.F.
3. ALL LAVATORIES, SINKS AND URINALS ARE TO HAVE AN INDIVIDUAL CLEANOUT LOCATED 6" ABOVE THE FLOOD RIM OF THE HIGHEST FIXTURE ON THE STACK.
4. ALL FLOOR DRAINS ARE TO BE PROVIDED WITH A TRAP PRIMER LINE FROM THE NEAREST PLUMBING CHASE. PROVIDE ACCESS DOOR FOR TRAP PRIMER.
5. REFER TO PLUMBING ROUGH-IN SCHEDULE FOR PIPE SIZES TO INDIVIDUAL FIXTURES.

NOTES BY SYMBOL:

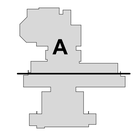
1	DISCONNECT ELECTRIC WATER COOLER FROM DOMESTIC COLD WATER PIPING, SANITARY PIPING, AND VENT PIPING. DEMOLISH ELECTRIC WATER COOLER. DEMOLISH ASSOCIATED DOMESTIC COLD WATER PIPING, SANITARY PIPING, AND VENT PIPING BACK TO MAINS ABOVE CEILING AND CAP. PATCH AND REPAIR WALL PER ARHITECTURAL SPECIFICATION.
2	DISCONNECT GAS-FIRED WATER HEATER FROM DOMESTIC COLD WATER, DOMESTIC HOT WATER, AND NATURAL GAS PIPING. DEMOLISH GAS-FIRED WATER HEATER. PREPARE DOMESTIC COLD WATER, DOMESTIC HOT WATER, AND NATURAL GAS PIPING FOR CONNECTION TO NEW WATER HEATER. HOUSEKEEPING PAD TO REMAIN FOR FUTURE USE.

TRUE NORTH / PLAN NORTH

PLUMBING DEMOLITION PLAN 'A'

SCALE: 3/32" = 1'-0"

KEY PLAN



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PLUMBING DEMOLITION PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

P0.10

PROJECT NO.: 2023208

LEGEND

- EXISTING TO REMAIN
- DEMOLITION
- NOT IN SCOPE

PLUMBING GENERAL NOTES:

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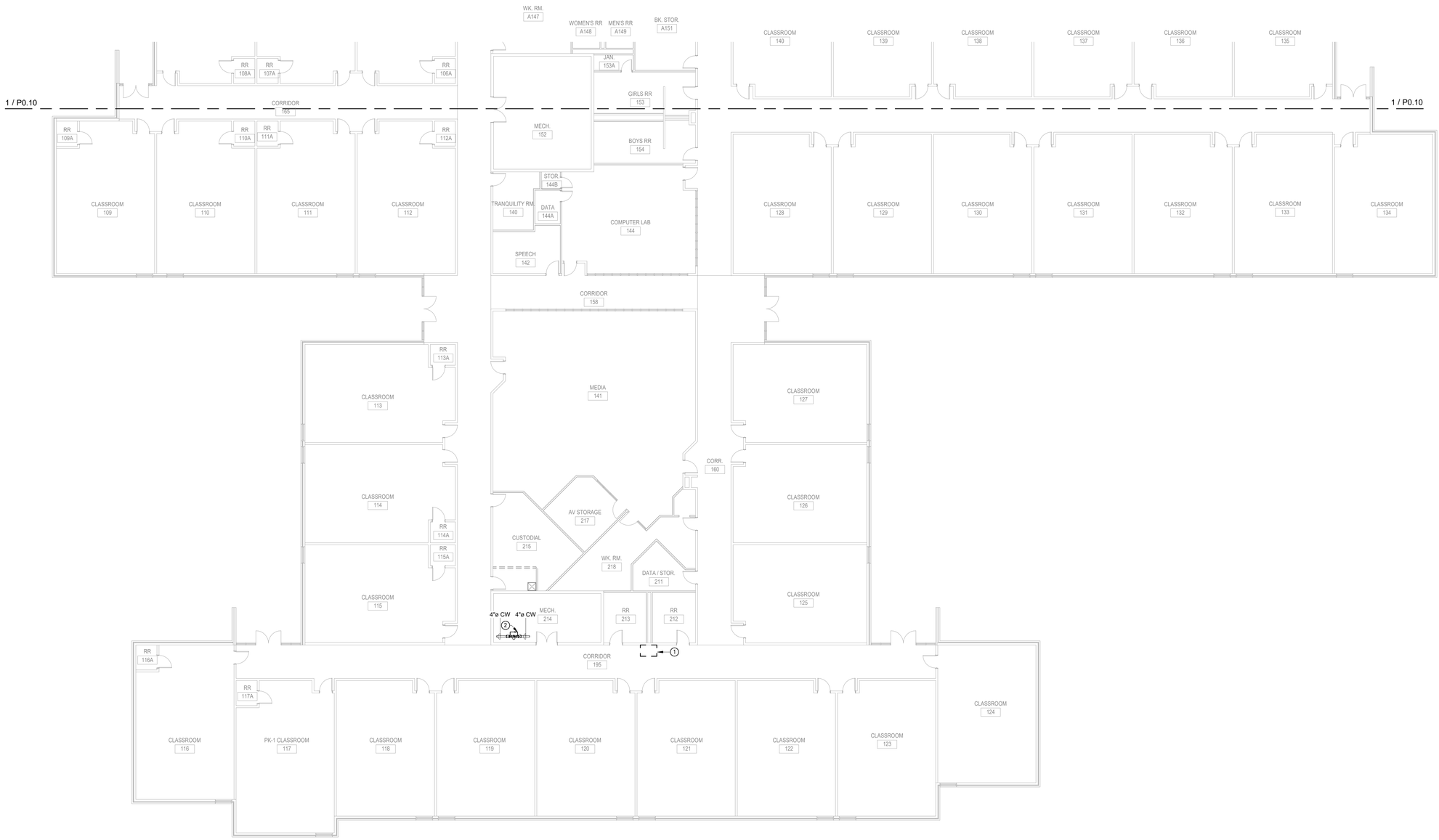
3. ALL LAVATORIES, SINKS AND URINALS ARE TO HAVE AN INDIVIDUAL CLEANOUT LOCATED 6" ABOVE THE FLOOD RIM OF THE HIGHEST FIXTURE ON THE STACK.
4. ALL FLOOR DRAINS ARE TO BE PROVIDED WITH A TRAP PRIMER LINE FROM THE NEAREST PLUMBING CHASE. PROVIDE ACCESS DOOR FOR TRAP PRIMER.
5. REFER TO PLUMBING ROUGH-IN SCHEDULE FOR PIPE SIZES TO INDIVIDUAL FIXTURES.

NOTES BY SYMBOL:

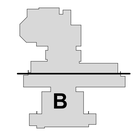
1	DISCONNECT ELECTRIC WATER COOLER FROM DOMESTIC COLD WATER PIPING, SANITARY PIPING, AND VENT PIPING. DEMOLISH ELECTRIC WATER COOLER. PREPARE ASSOCIATED DOMESTIC COLD WATER PIPING, SANITARY PIPING, AND VENT PIPING FORE CONNECTION TO NEW ELECTRIC WATER COOLER.
2	DISCONNECT AND DEMOLISH BACKFLOW PREVENTER. PREPARE DOMESTIC COLD WATER PIPING FOR RECONNECTION TO NEW PIPING. REFER TO DETAIL FOR EXTENT OF DEMOLITION. FIELD VERIFY EXACT SIZE AND LOCATION OF RPZ AND PIPING PRIOR TO DEMOLITION.



1 PLUMBING DEMOLITION PLAN 'B'
SCALE: 3/32" = 1'-0"

TRUE NORTH
PLAN NORTH

KEY PLAN



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PLUMBING DEMOLITION PLAN 'B'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

P0.20

PROJECT NO.: 2023208

LEGEND

- EXISTING TO REMAIN
- NEW
- NOT IN SCOPE

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4. ALL FLOOR DRAINS ARE TO BE PROVIDED WITH A TRAP PRIMER LINE FROM THE NEAREST PLUMBING CHASE. PROVIDE ACCESS DOOR FOR TRAP PRIMER.
5. REFER TO PLUMBING ROUGH-IN SCHEDULE FOR PIPE SIZES TO INDIVIDUAL FIXTURES.

NOTES BY SYMBOL:

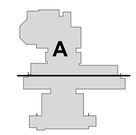
1	PROVIDE NEW ELECTRIC WATER COOLER.
2	PROVIDE NEW 1/2" DOMESTIC WATER PIPING SERVING EWC-1. PIPING TO BE ROUTED DOWN IN CHASE TO ELECTRIC WATER COOLER. CONNECT TO EXISTING DOMESTIC COLD WATER PIPING ABOVE CEILING. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING PRIOR TO INSTALLATION.
3	PROVIDE NEW 2" SANITARY PIPING SERVING EWC-1. PIPING TO BE ROUTED DOWN IN CHASE TO BELOW FLOOR. CONNECT TO EXISTING SANITARY PIPING BELOW FLOOR. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING PRIOR TO INSTALLATION.
4	PROVIDE NEW 2" SANITARY VENT PIPING SERVING EWC-1. PIPING TO BE ROUTED DOWN IN CHASE TO EWC-1. CONNECT TO EXISTING SANITARY VENT PIPING ABOVE CEILING. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING PRIOR TO INSTALLATION.
5	PROVIDE NEW GAS-FIRED WATER HEATER. PROVIDE CONENCTIONS TO EXISTING DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER PIPING, AND NATURAL GAS PIPING. FIELD VERIFY EXACT SIZE AND LOCATION OF PIPING PRIOR TO INSTALLATION. INSTALL WATER HEATER ON EXISTING HOUSEKEEPING PAD.

TRUE NORTH / PLAN NORTH

1 PLUMBING PLAN 'A'

SCALE: 3/32" = 1'-0"

KEY PLAN



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PLUMBING PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

P1.01

PROJECT NO.: 2023208

LEGEND

- EXISTING TO REMAIN
- NEW
- NOT IN SCOPE

PLUMBING GENERAL NOTES:

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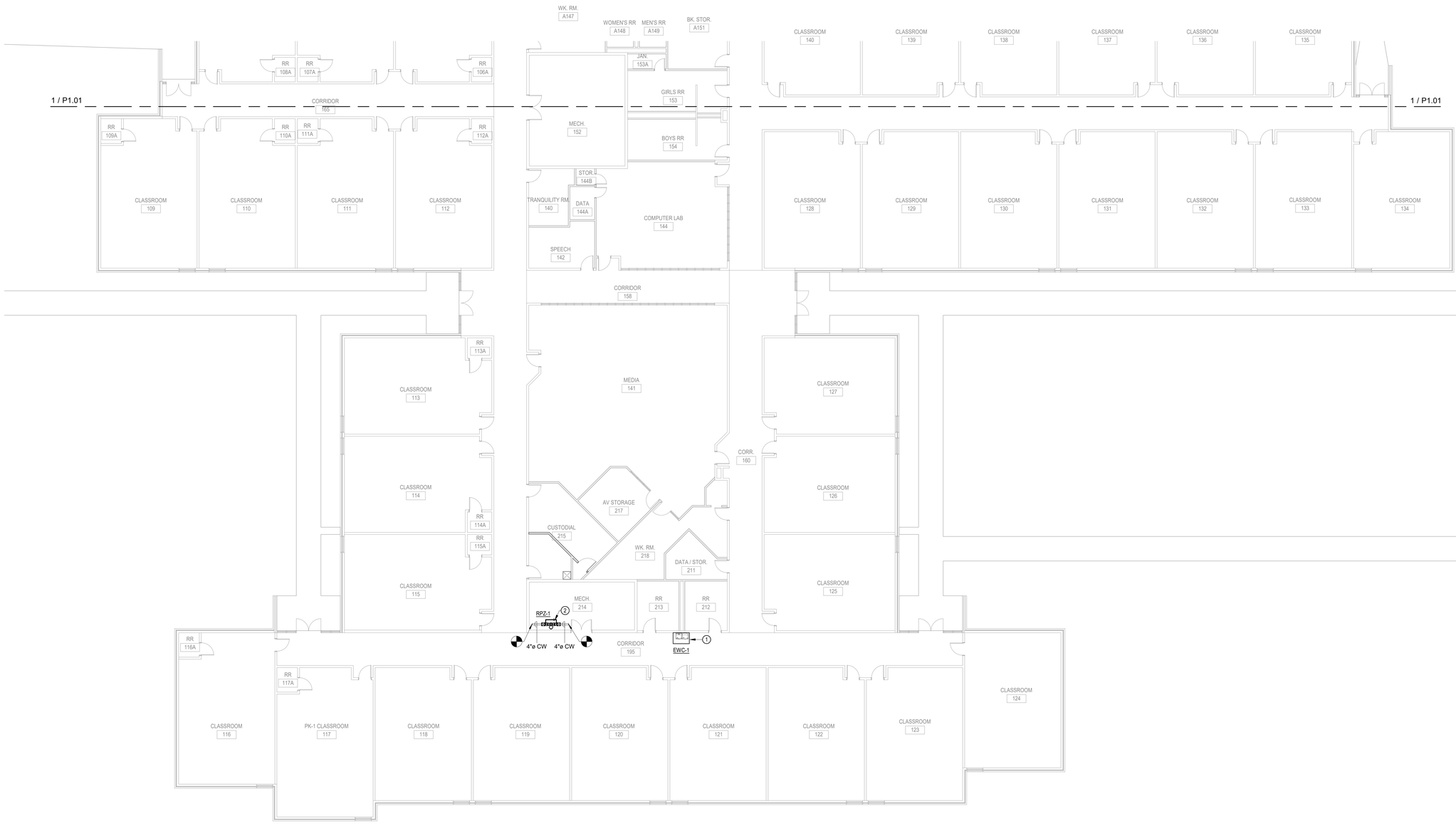
5. REFER TO PLUMBING ROUGH-IN SCHEDULE FOR PIPE SIZES TO INDIVIDUAL FIXTURES.

NOTES BY SYMBOL:

1	PROVIDE NEW ELECTRIC WATER COOLER. CONNECT TO EXISTING DOMESTIC COLD WATER PIPING, SANITARY PIPING, AND VENT PIPING IN WALL.
2	REPLACE EXISTING DOMESTIC WATER REDUCED PRESSURE BACKFLOW PREVENTER SERVING BUILDING. CONNECT TO EXISITNG DOMESTIC WATER PIPING PER DETAIL. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING RPZ AND PIPING PRIOR TO INSTALLATION.

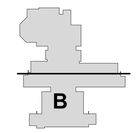


TRUE NORTH / PLAN NORTH

1 PLUMBING PLAN 'B'

SCALE: 3/32" = 1'-0"

KEY PLAN



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PLUMBING PLAN 'B'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

P1.02

PROJECT NO.: 2023208

PLUMBING FIXTURE SCHEDULE

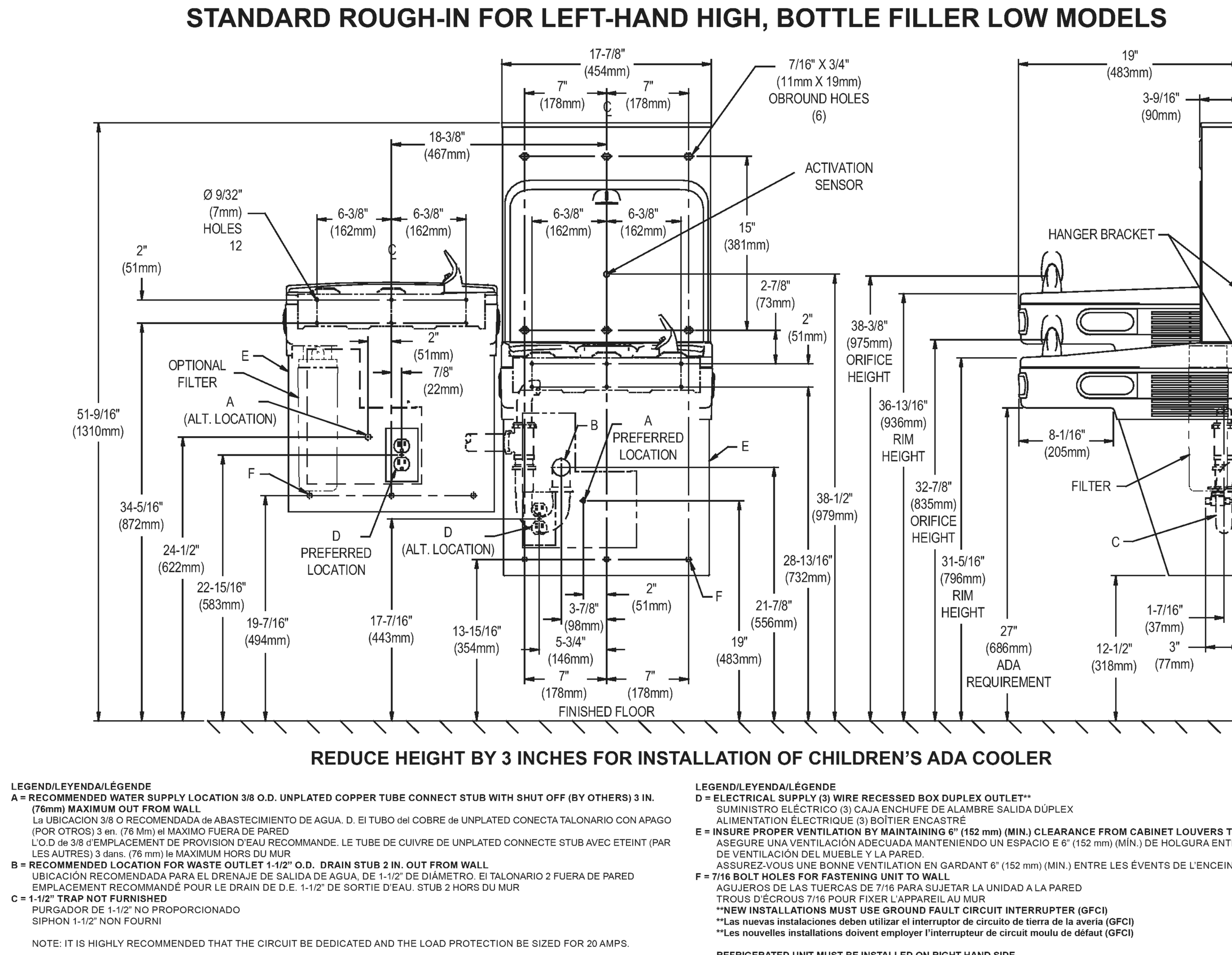
TYPE	FIXTURE DESCRIPTION	P-TRAP	SUPPLIES	ROUGH-INS	CARRIER
EWC-1	FILTERED, DOUBLE HEIGHT, STAINLESS STEEL ELECTRIC WATER COOLER, SURFACE MOUNTING PLATE, IN-WALL CHILLER, FLEXI-GUARD BUBBLERS, AUTOMATIC STREAM HEIGHT REGULATORS, AND BOTTLE FILLER STATION. ELKAY #LZSTL8WSLK.	1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE #8872.	1/2" X 3/8" CHROME PLATED LOOSE KEY STOP VALVE. WITH ESCUTCHEON AND 3/8" CHROME PLATED FLEXIBLE RISER. MCGUIRE#2165LK.	2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	WADE #400 SERIES

BACKFLOW PREVENTER SCHEDULE

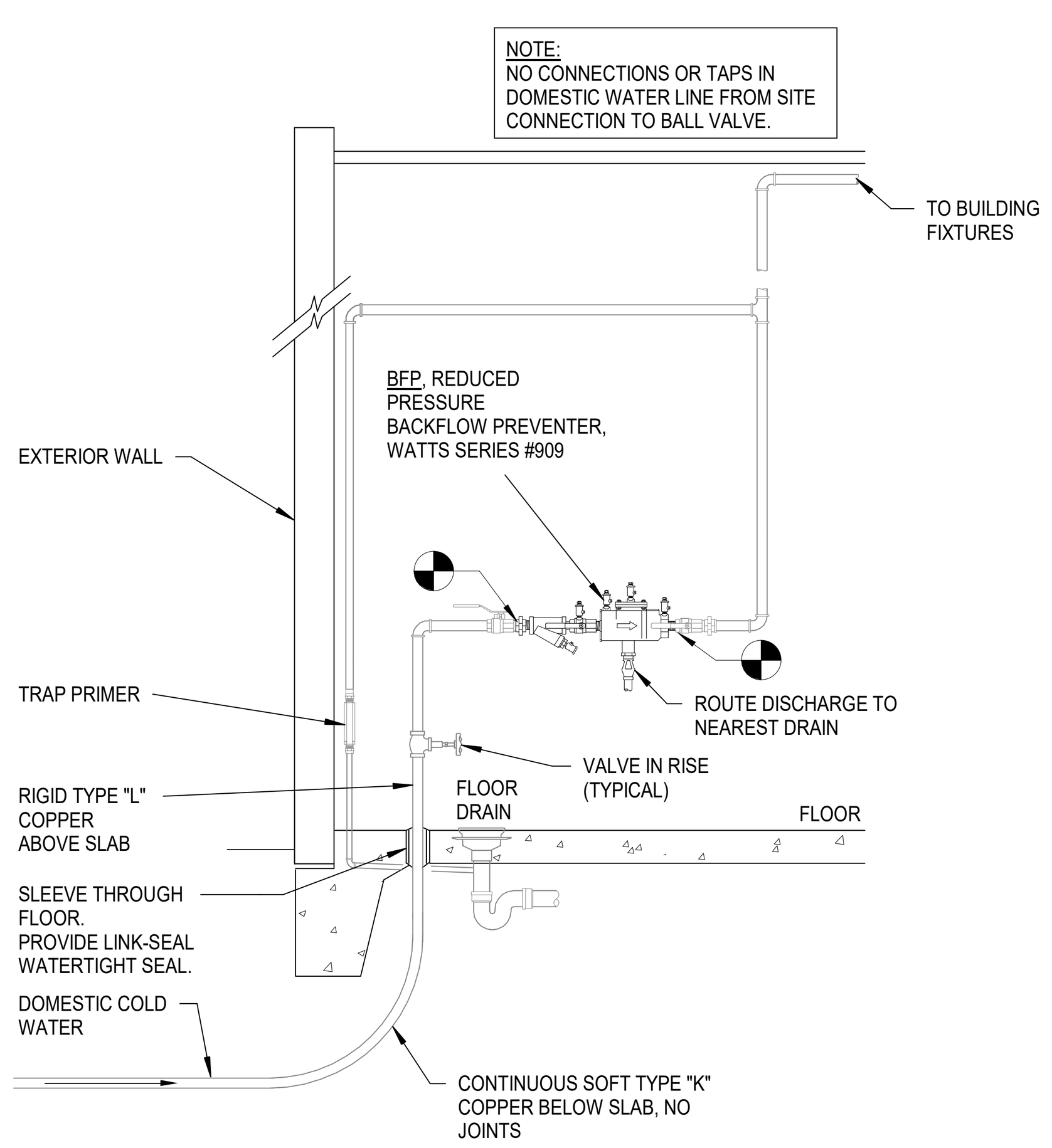
ITEM NO.	FIXTURE DESCRIPTION	MANUFACTURER	MODEL
RPZ-1	4" REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY WITH STRAINER.	WATTS	LF909

GAS WATER HEATER SCHEDULE

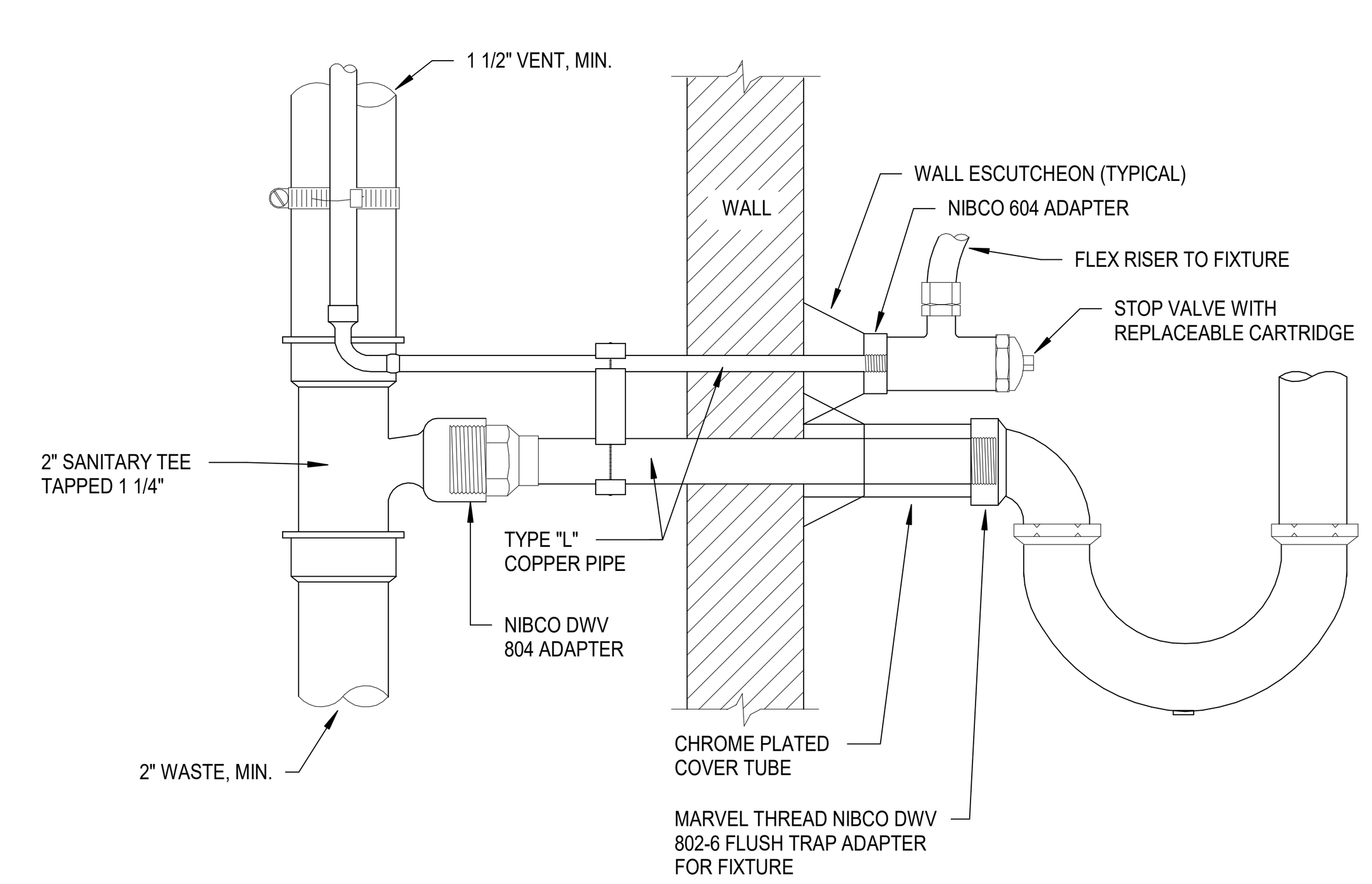
ITEM NO.	MBH INPUT	MBH OUTPUT	GPH RECOVERY RATE 100°F RISE	STORAGE CAPACITY (GAL)	DCW CONNECTION SIZE (IN.)	HW CONNECTION SIZE (IN.)	HWR CONNECTION SIZE (IN.)	ELECTRICAL DATA			STORED WATER TEMP (°F)	MANUFACTURER
								V	PH	HZ		
GWH-1	399.0	335.0	500	125	2	2	2	120	1	60	140	MAXIM 40 N 125A-MX



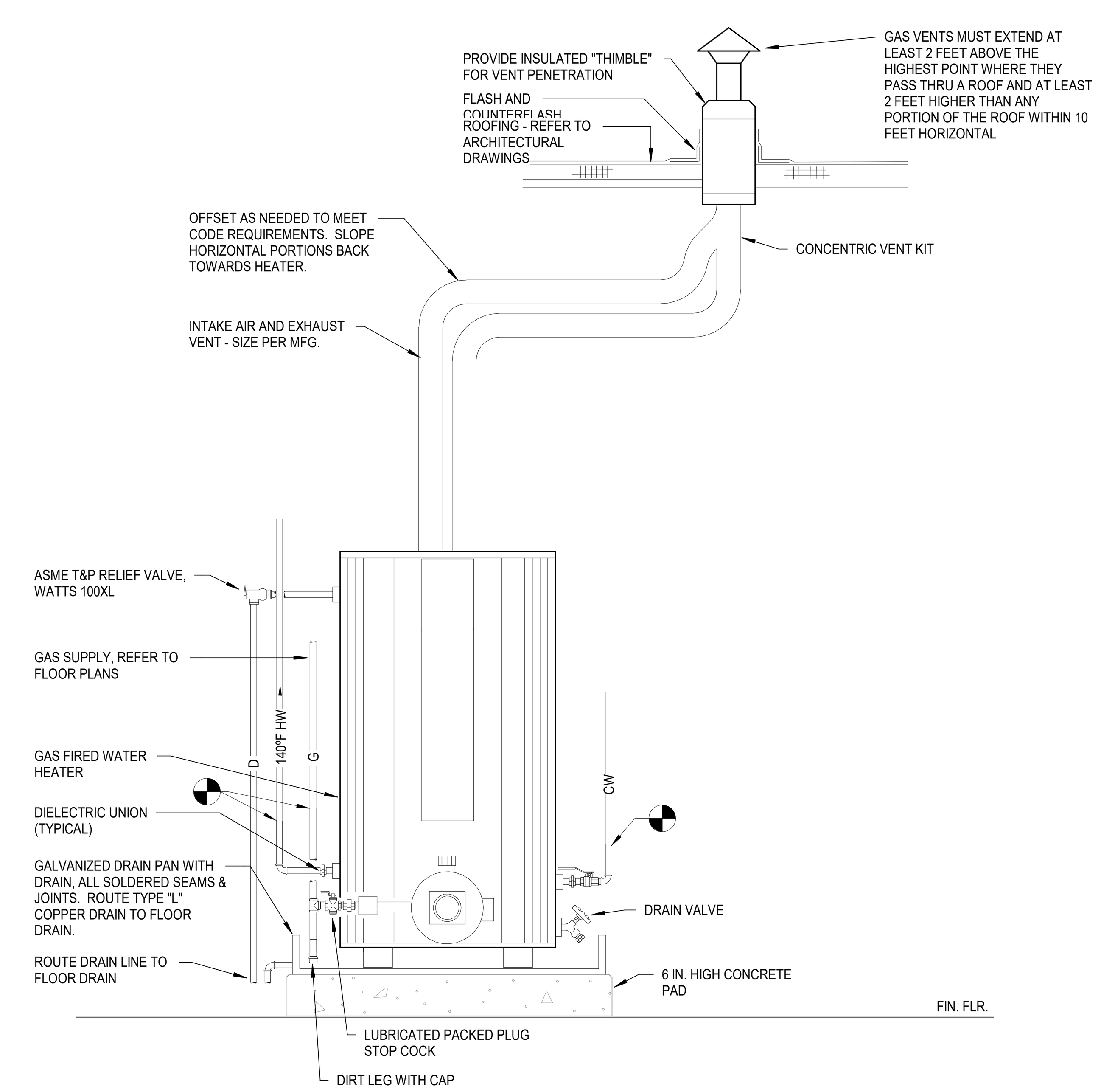
2 EWC-1 INSTALLATION DETAIL
SCALE: NOT TO SCALE


NOTE:
NO CONNECTIONS OR TAPS IN DOMESTIC WATER LINE FROM SITE CONNECTION TO BALL VALVE.
TO BUILDING FIXTURES
EXTERIOR WALL
BFP, REDUCED PRESSURE BACKFLOW PREVENTER, WATTS SERIES #909
ROUTE DISCHARGE TO NEAREST DRAIN
TRAP PRIMER
VALVE IN RISE (TYPICAL)
RIGID TYPE "L" COPPER ABOVE SLAB
FLOOR DRAIN
FLOOR
SLEEVE THROUGH FLOOR, PROVIDE LINK-SEAL WATERTIGHT SEAL.
DOMESTIC COLD WATER
CONTINUOUS SOFT TYPE "K" COPPER BELOW SLAB, NO JOINTS

4 DOMESTIC COLD WATER RISER
NOT TO SCALE


1 1/2" VENT, MIN.
WALL
WALL ESCUTCHEON (TYPICAL)
NIBCO 604 ADAPTER
FLEX RISER TO FIXTURE
STOP VALVE WITH REPLACEABLE CARTRIDGE
2" SANITARY TEE TAPPED 1 1/4"
TYPE "L" COPPER PIPE
NIBCO DWV 804 ADAPTER
2" WASTE, MIN.
CHROME PLATED COVER TUBE
MARVEL THREAD NIBCO DWV 802-6 FLUSH TRAP ADAPTER FOR FIXTURE

3 FIXTURE CONNECTION DETAIL
SCALE: NOT TO SCALE


PROVIDE INSULATED "THIMBLE" FOR VENT PENETRATION
FLASH AND COUNTERFLASH
ROOFING - REFER TO ARCHITECTURAL DRAWINGS
GAS VENTS MUST EXTEND AT LEAST 2 FEET ABOVE THE HIGHEST POINT WHERE THEY PASS THRU A ROOF AND AT LEAST 2 FEET HIGHER THAN ANY PORTION OF THE ROOF WITHIN 10 FEET HORIZONTAL
OFFSET AS NEEDED TO MEET CODE REQUIREMENTS. SLOPE HORIZONTAL PORTIONS BACK TOWARDS HEATER.
CONCENTRIC VENT KIT
INTAKE AIR AND EXHAUST VENT - SIZE PER MFG.
ASME T&P RELIEF VALVE, WATTS 100XL
GAS SUPPLY, REFER TO FLOOR PLANS
GAS FIRED WATER HEATER
DIELECTRIC UNION (TYPICAL)
GALVANIZED DRAIN PAN WITH DRAIN, ALL SOLDERED SEAMS & JOINTS. ROUTE TYPE "L" COPPER DRAIN TO FLOOR DRAIN.
ROUTE DRAIN LINE TO FLOOR DRAIN
DRAIN VALVE
6 IN. HIGH CONCRETE PAD
FIN. FLR.
LUBRICATED PACKED PLUG STOP COCK
DIRT LEG WITH CAP

1 FLR MTD GAS WATER HEATER
SCALE: NOT TO SCALE

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PLUMBING EQUIPMENT SCHEDULES

DRAWING RECORD

DATE	DESCRIPTION
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09/18/24	BID SET

P4.01

PROJECT NO.: 2023208

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

STEMWALL 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)
- A1 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 FRAME RATING; AT TRIP RATING; LSI, LSIG, LSIA ELECTRONIC TRIP FUNCTIONS
- 300 / 1200 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.

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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XIAOBO WANG
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LICENSED
PROFESSIONAL ENGINEER
09/18/2024

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

DALLAS INDEPENDENT SCHOOL DISTRICT

Jacobs

ORG 273 DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

ELECTRICAL COVER SHEET

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

E0.01

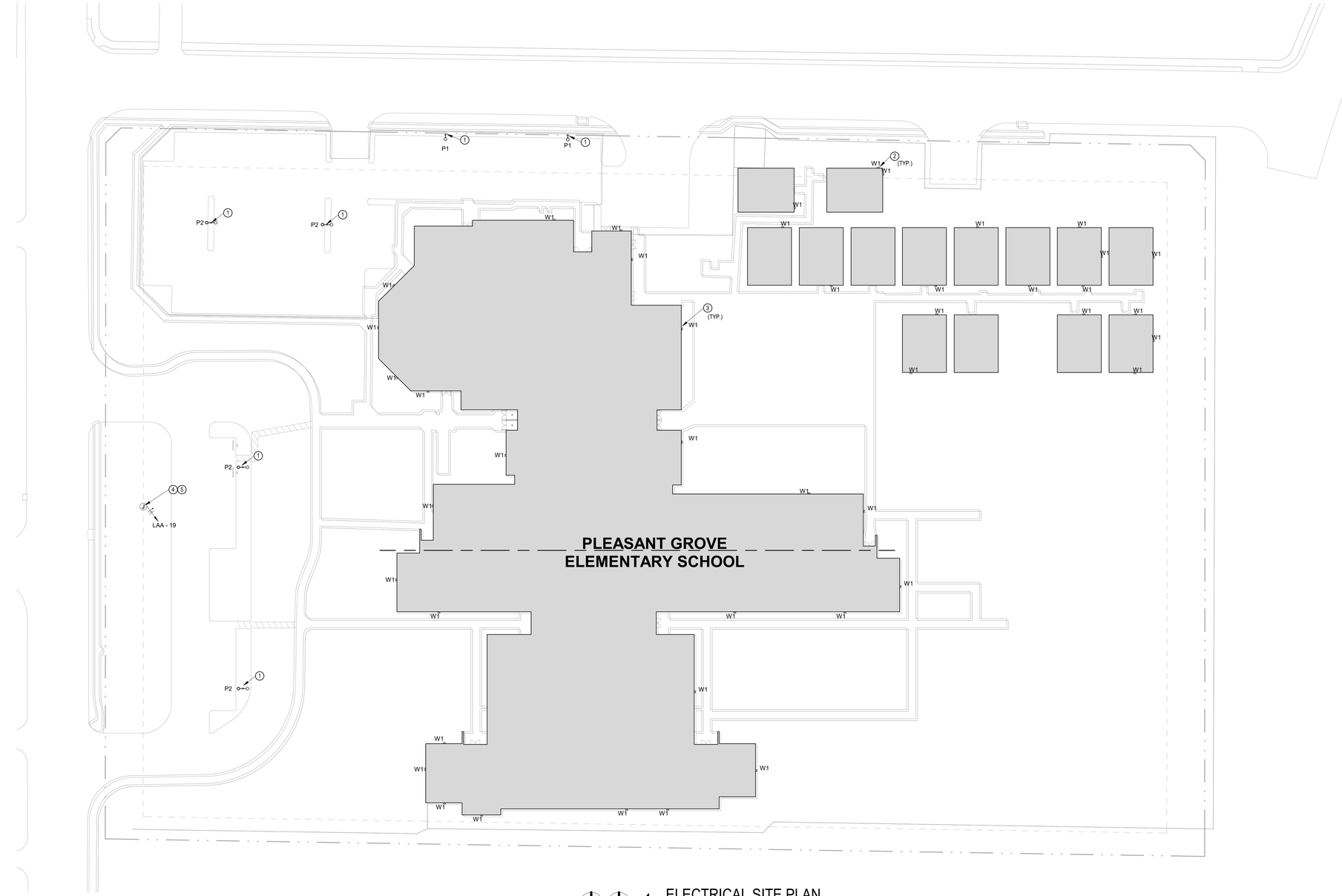
PROJECT NO.: 2023208

SITE PLAN GENERAL NOTES:

1. COORDINATE ALL CONNECTIONS TO UTILITY EQUIPMENT WITH ONCOR.
2. PROVIDE PULL-BOXES AS SHOWN, AND ADDITIONAL AS REQUIRED BY THE NEC FOR ALL POWER RACEWAY ROUTING.
3. ALL WORK SHALL COMPLY WITH ALL LOCAL BUILDING CODES.
4. COORDINATE ALL SITE WORK WITH CIVIL PLANS.

NOTES BY SYMBOL:

1	DISCONNECT AND REMOVE EXISTING SITE LIGHT FIXTURE. PREPARE CIRCUIT, AND POLE/BASE FOR REUSE. PROVIDE NEW LED LIGHTING FIXTURE WITH INTEGRATED PHOTOCELL AND OCCUPANCY SENSOR. REUSE EXISTING BASE/POLE AND CIRCUIT MADE AVAILABLE IN DEMOLITION. ROUTE CIRCUIT THROUGH TIME SWITCH IN BOILER ROOM.
2	DISCONNECT AND REMOVE EXISTING WALL PACK. PREPARE CIRCUIT FOR REUSE. PROVIDE NEW LED WALL PACK. REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMOLITION.
3	PROVIDE NEW LED WALL PACK. REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMOLITION. ROUTE CIRCUIT THROUGH TIME SWITCH IN BOILER ROOM.
4	PROVIDE (2)#10, #10G, 3/4"C FOR NEW MARQUEE SIGN. PROVIDE ETHERNET CELLULAR MODEM. COORDINATE EXACT REQUIREMENTS WITH MARQUEE SIGN MANUFACTURER/THE DISTRICT.
5	VERIFY UPN FIBER RUNNING INTO BUILDING IS NOT AFFECTED BY MARQUEE SIGN EXCAVATION. NOTIFY DISD WITH ANY DISCREPANCIES.



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

TRUE NORTH
PLAN NORTH

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ORG 273 DISD PLEASANT GROVE ELEMENTARY

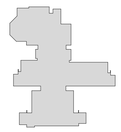
1614 N St Augustine Rd, Dallas, TX 75217

ELECTRICAL SITE PLAN

DRAWING RECORD

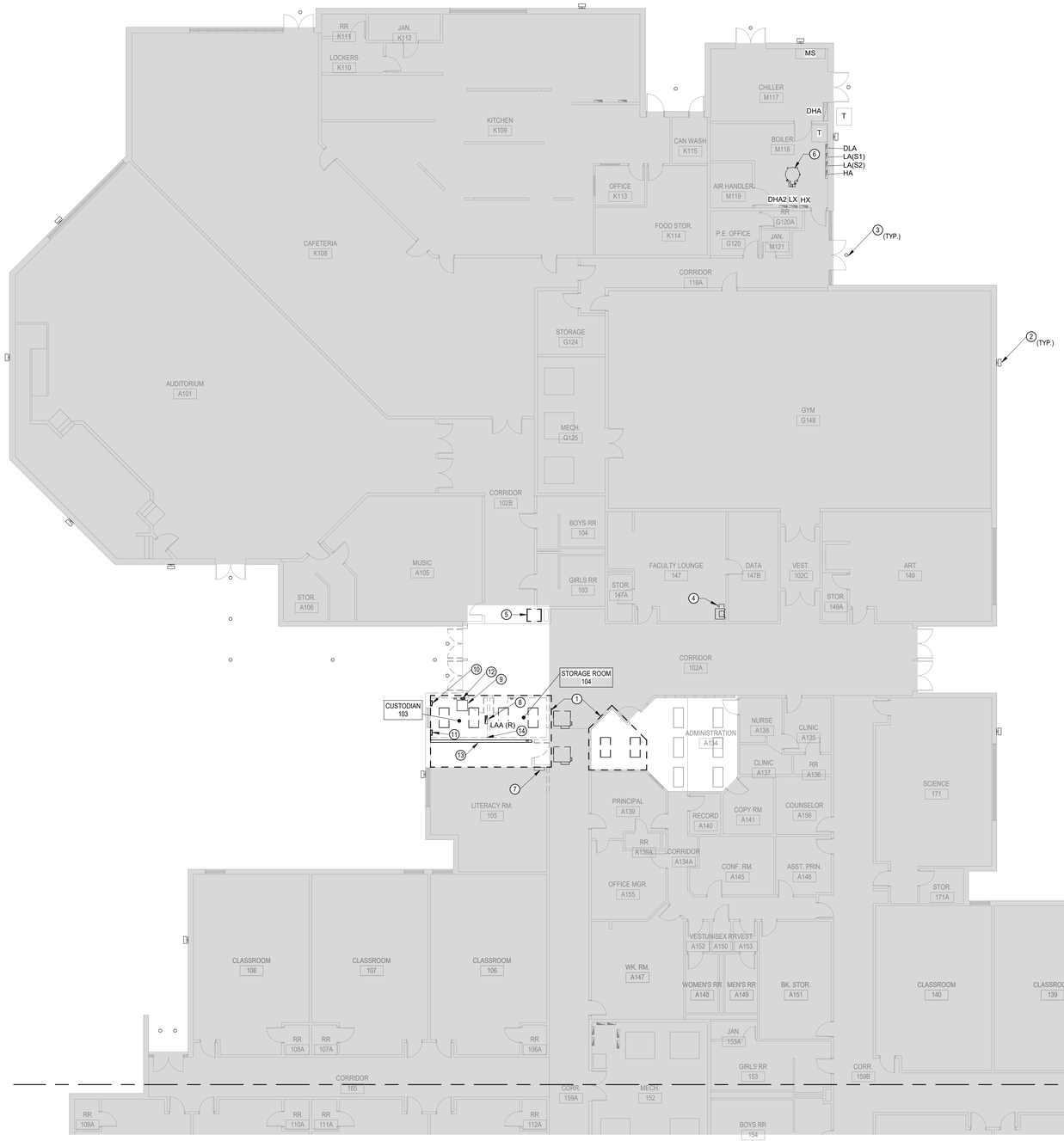
DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

KEY PLAN



E0.10

PROJECT NO.: 2023208



LEGEND

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

NOTES BY SYMBOL:

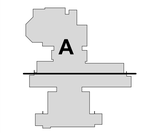
1	DISCONNECT AND REMOVE POWER, LIGHTING, AND CONTROL DEVICES IN AREA OF RENOVATION. PREPARE CIRCUITS FOR REUSE.
2	REMOVE AND DISCONNECT EXISTING WALLPACK. PREPARE CIRCUIT FOR REUSE.
3	REMOVE AND DISCONNECT EXISTING CANOPY LIGHTING. PREPARE CIRCUIT FOR REUSE.
4	DISCONNECT AND REMOVE ELECTRICAL EQUIPMENT SERVING SPLIT SYSTEM INDOOR UNIT SERVING DATA ROOM.
5	DISCONNECT AND REMOVE ELECTRICAL EQUIPMENT SERVING EXISTING WATER COOLER. PREPARE EXISTING CIRCUIT FOR REUSE AT NEW LOCATION.
6	DISCONNECT AND REMOVE ELECTRICAL EQUIPMENT SERVING EXISTING GAS-FIRED WATER HEATER. PREPARE EXISTING CIRCUIT FOR REUSE.
7	EXISTING WALL MOUNTED TECHONOLOGY RACK TO BE RELOCATED.
8	EXISTING ELECTRICAL PANEL TO BE RELOCATED. EXTEND CONDUCTORS AND RACEWAYS AS NEEDED.
9	RELOCATE EXISTING ABOVE-CEILING TRANSFORMER. EXTEND CONDUCTORS AND RACEWAYS AS NEEDED. SEE E2.01 FOR NEW TRANSFORMER LOCATION.
10	EXISTING FIRE ALARM SUBSCRIBER. TEMPORARILY RELOCATE NEXT TO EXISTING FIRE ALARM CONTROL PANEL DURING CONSTRUCTION. RESTORE FINISH AFTER RELOACTION.
11	EXISTING IRRIGATION PANEL TO BE RELOCATED. REFER TO CIVIL FOR NEW LOCATION. RESTORE FINISH AFTER RELOCATION.
12	EXISTING SECURITY KEYPADS TO BE RELOCATED. RESTORE FINISH AFTER RELOCATION.
13	DEMOLISH EXISTING WIREMOLD ON WALL. PREPARE EXISTING CIRCUITS FOR REUSE.
14	PREPARE ANY DATA DROPS, CONDUITS ON THIS WALL TO BE RELOCATED TO NEW WALL.

ELECTRICAL DEMOLITION GENERAL NOTES:

1. EXISTING ELECTRICAL PANELS ARE TO REMAIN, UNLESS OTHERWISE NOTED. UPDATE ALL EXISTING PANEL DIRECTORIES WHEN WORK IS COMPLETE.
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. PROVIDE TEMPORARY SUPPORT FOR ITEMS TO REMAIN THAT ARE AFFECTED BY DEMOLITION OF BUILDING STRUCTURE COMPONENTS (WALLS, CEILING, PARTITIONS, ETC). PROVIDE PERMANENT SUPPORT WHEN FINALIZED STRUCTURES ARE IN PLACE.
4. EXISTING FIRE ALARM, SECURITY, PIA, CLOCK SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD. EXTEND INTO RENOVATION AREAS.
5. WHEN CEILINGS ARE REPLACED TO INSTALL NEW TILE AND/OR NEW LIGHT FIXTURES, THE EXISTING FIRE ALARM DEVICES, PA SPEAKERS, SECURITY DEVICES, SPRINKLER HEADS, ETC SHALL BE SUPPORTED, PROTECTED AND REPLACED IN NEW CEILING.
6. WHEN WALLS ARE REMOVED: DISCONNECT AND REMOVE EXISTING RECEPTACLE OUTLETS AND ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE PANEL. RELOCATE EXISTING FIRE ALARM DEVICES, PA SPEAKERS, SECURITY DEVICES, CLOCKS, ETC. COORDINATE WITH ARCHITECT.
7. EXISTING WALL TO REMAIN: EXISTING RECEPTACLES AND DATA TO REMAIN AND OPERATIONAL. TRACE ALL CIRCUITS NECESSARY FOR THE WORK.
8. REMOVE EXISTING PROJECTOR AND RETURN TO OWNER. KEEP EXISTING CIRCUIT FOR NEW DISPLAY.
9. COORDINATE LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL MILLWORK AND FURNITURE LAYOUT PRIOR TO ROUGH-IN.
10. DISCONNECT AND REMOVE ALL UNUSED ELECTRICAL COMPONENTS BACK TO NEAREST SOURCE. REUSE EXISTING DEVICES AND PANELS WHERE POSSIBLE.
11. DISCONNECT AND REMOVE ALL ASSOCIATED MOTOR STARTERS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BREAKERS, CONTROL WIRING, CONDUIT AND CONDUCTORS ASSOCIATED WITH ANY MECHANICAL EQUIPMENT BEING DEMOLISHED AS PART OF THIS PROJECT AS REQUIRED.
12. SUPPORT ALL SYSTEMS THAT ARE TO REMAIN IN PLACE/OPERATION DURING CONSTRUCTION (LIGHTING, PA, SECURITY, ETC) SECURELY TO THE STRUCTURE ABOVE AND NOT FROM ANY CEILING WHICH MAY HAVE BEEN LEFT IN PLACE ABOVE EXISTING EQUIPMENT. SUPPORT SHALL BE INDEPENDENT OF THE CEILING GRID SYSTEM. WHERE LIGHT FIXTURES ARE TO BE LEFT IN PLACE FOR CONSTRUCTION, PROVIDE ADEQUATE SECURE SUPPORT TO ENSURE FIXTURES WILL NOT FALL OR ENDANGER ANYONE WALKING BELOW THE SUSPENDED EQUIPMENT.
13. REMOVE AND DISCONNECT ALL WALLPACKS AND CANOPY LIGHTING. PREPARE CIRCUITS AND CONTROLS FOR REUSE. SITE VERIFY EXACT FIXTURE COUNT AND LOCATIONS.

1 ELECTRICAL DEMOLITION PLAN 'A'
SCALE: 3/32" = 1'-0"
TRUE NORTH PLAN NORTH

KEY PLAN



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1614 N St Augustine Rd, Dallas, TX 75217

ELECTRICAL DEMOLITION PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

E0.20

PROJECT NO.: 2023208

LEGEND

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

NOTES BY SYMBOL:

1	DISCONNECT AND DEMOLISH EXISTING ELECTRICAL EQUIPMENT SERVING CEILING EXHAUST FAN.
2	REMOVE AND DISCONNECT EXISTING WALLPACK. PREPARE CIRCUIT FOR REUSE.
3	REMOVE AND DISCONNECT EXISTING CANOPY LIGHTING. PREPARE CIRCUIT FOR REUSE.
4	DISCONNECT AND DEMOLISH ELECTRICAL EQUIPMENT SERVING EXISTING 3 TON DUCTLESS SPLIT SYSTEM UNIT.
5	DISCONNECT AND REMOVE ELECTRICAL EQUIPMENT SERVING EXISTING WATER COOLER. PREPARE EXISTING CIRCUIT FOR REUSE.
6	DISCONNECT AND REMOVE LIGHTING, AND CONTROL DEVICES IN AREA OF RENOVATION. PREPARE CIRCUITS FOR REUSE.

ELECTRICAL DEMOLITION GENERAL NOTES:

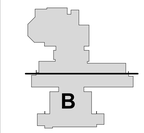
1. EXISTING ELECTRICAL PANELS ARE TO REMAIN, UNLESS OTHERWISE NOTED. UPDATE ALL EXISTING PANEL DIRECTORIES WHEN WORK IS COMPLETE.
2. ALL EQUIPMENT AND WIRING NOT IN RENOVATED AREAS BUT AFFECTED BY WORK IN RENOVATED AREAS SHALL BE RECONNECTED AS NECESSARY FOR THE COMPLETE WORKING SYSTEM.
3. PROVIDE TEMPORARY SUPPORT FOR ITEMS TO REMAIN THAT ARE AFFECTED BY DEMOLITION OF BUILDING STRUCTURE COMPONENTS (WALLS, CEILING, PARTITIONS, ETC). PROVIDE PERMANENT SUPPORT WHEN FINALIZED STRUCTURES ARE IN PLACE.
4. EXISTING FIRE ALARM, SECURITY, PIA, CLOCK SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD. EXTEND INTO RENOVATION AREAS.
5. WHEN CEILINGS ARE REPLACED TO INSTALL NEW TILE AND/OR NEW LIGHT FIXTURES, THE EXISTING FIRE ALARM DEVICES, PA SPEAKERS, SECURITY DEVICES, SPRINKLER HEADS, ETC SHALL BE SUPPORTED, PROTECTED AND REPLACED IN NEW CEILING.
6. WHEN WALLS ARE REMOVED: DISCONNECT AND REMOVE EXISTING RECEPTACLE OUTLETS AND ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE PANEL. RELOCATE EXISTING FIRE ALARM DEVICES, PA SPEAKERS, SECURITY DEVICES, CLOCKS, ETC. COORDINATE WITH ARCHITECT.
7. EXISTING WALL TO REMAIN: EXISTING RECEPTACLES AND DATA TO REMAIN AND OPERATIONAL. TRACE ALL CIRCUITS NECESSARY FOR THE WORK.
8. REMOVE EXISTING PROJECTOR AND RETURN TO OWNER. KEEP EXISTING CIRCUIT FOR NEW DISPLAY.
9. COORDINATE LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL MILLWORK AND FURNITURE LAYOUT PRIOR TO ROUGH-IN.
10. DISCONNECT AND REMOVE ALL UNUSED ELECTRICAL COMPONENTS BACK TO NEAREST SOURCE. REUSE EXISTING DEVICES AND PANELS WHERE POSSIBLE.
11. DISCONNECT AND REMOVE ALL ASSOCIATED MOTOR STARTERS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BREAKERS, CONTROL WIRING, CONDUIT AND CONDUCTORS ASSOCIATED WITH ANY MECHANICAL EQUIPMENT BEING DEMOLISHED AS PART OF THIS PROJECT AS REQUIRED.
12. SUPPORT ALL SYSTEMS THAT ARE TO REMAIN IN PLACE/OPERATION DURING CONSTRUCTION (LIGHTING, PA, SECURITY, ETC) SECURELY TO THE STRUCTURE ABOVE AND NOT FROM ANY CEILING WHICH MAY HAVE BEEN LEFT IN PLACE ABOVE EXISTING EQUIPMENT. SUPPORT SHALL BE INDEPENDENT OF THE CEILING GRID SYSTEM. WHERE LIGHT FIXTURES ARE TO BE LEFT IN PLACE FOR CONSTRUCTION, PROVIDE ADEQUATE SECURE SUPPORT TO ENSURE FIXTURES WILL NOT FALL OR ENDANGER ANYONE WALKING BELOW THE SUSPENDED EQUIPMENT.
13. REMOVE AND DISCONNECT ALL WALLPACKS AND CANOPY LIGHTING. PREPARE CIRCUITS AND CONTROLS FOR REUSE. SITE VERIFY EXACT FIXTURE COUNT AND LOCATIONS.

TRUE NORTH / PLAN NORTH

1 ELECTRICAL DEMOLITION PLAN 'B'

SCALE: 3/32" = 1'-0"

KEY PLAN



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ELECTRICAL DEMOLITION PLAN 'B'

DRAWING RECORD	
DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

E0.30

PROJECT NO.: 2023208

NOTES BY SYMBOL:

1	DEMOLISH ELECTRICAL EQUIPMENT SERVING EXISTING DX SPLIT SYSTEM CONDENSING UNIT. DEMOLISH CIRCUIT BACK TO SOURCE PANEL.

LEGEND

- EXISTING TO REMAIN
- DEMOLITION
- NOT IN SCOPE

ELECTRICAL DEMOLITION GENERAL NOTES:

1. EXISTING ELECTRICAL PANELS ARE TO REMAIN, UNLESS OTHERWISE NOTED. UPDATE ALL EXISTING PANEL DIRECTORIES WHEN WORK IS COMPLETE.
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. PROVIDE TEMPORARY SUPPORT FOR ITEMS TO REMAIN THAT ARE AFFECTED BY DEMOLITION OF BUILDING STRUCTURE COMPONENTS (WALLS, CEILING, PARTITIONS, ETC). PROVIDE PERMANENT SUPPORT WHEN FINALIZED STRUCTURES ARE IN PLACE.
4. EXISTING FIRE ALARM, SECURITY, PIA, CLOCK SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD. EXTEND INTO RENOVATION AREAS.
5. WHEN CEILINGS ARE REPLACED TO INSTALL NEW TILE AND/OR NEW LIGHT FIXTURES, THE EXISTING FIRE ALARM DEVICES, PA SPEAKERS, SECURITY DEVICES, SPRINKLER HEADS, ETC SHALL BE SUPPORTED, PROTECTED AND REPLACED IN NEW CEILING.
6. WHEN WALLS ARE REMOVED: DISCONNECT AND REMOVE EXISTING RECEPTACLE OUTLETS AND ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE PANEL. RELOCATE EXISTING FIRE ALARM DEVICES, PA SPEAKERS, SECURITY DEVICES, CLOCKS, ETC. COORDINATE WITH ARCHITECT.
7. EXISTING WALL TO REMAIN: EXISTING RECEPTACLES AND DATA TO REMAIN AND OPERATIONAL. TRACE ALL CIRCUITS NECESSARY FOR THE WORK.
8. REMOVE EXISTING PROJECTOR AND RETURN TO OWNER. KEEP EXISTING CIRCUIT FOR NEW DISPLAY.
9. COORDINATE LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL MILLWORK AND FURNITURE LAYOUT PRIOR TO ROUGH-IN.
10. DISCONNECT AND REMOVE ALL UNUSED ELECTRICAL COMPONENTS BACK TO NEAREST SOURCE. REUSE EXISTING DEVICES AND PANELS WHERE POSSIBLE.
11. DISCONNECT AND REMOVE ALL ASSOCIATED MOTOR STARTERS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BREAKERS, CONTROL WIRING, CONDUIT AND CONDUCTORS ASSOCIATED WITH ANY MECHANICAL EQUIPMENT BEING DEMOLISHED AS PART OF THIS PROJECT AS REQUIRED.
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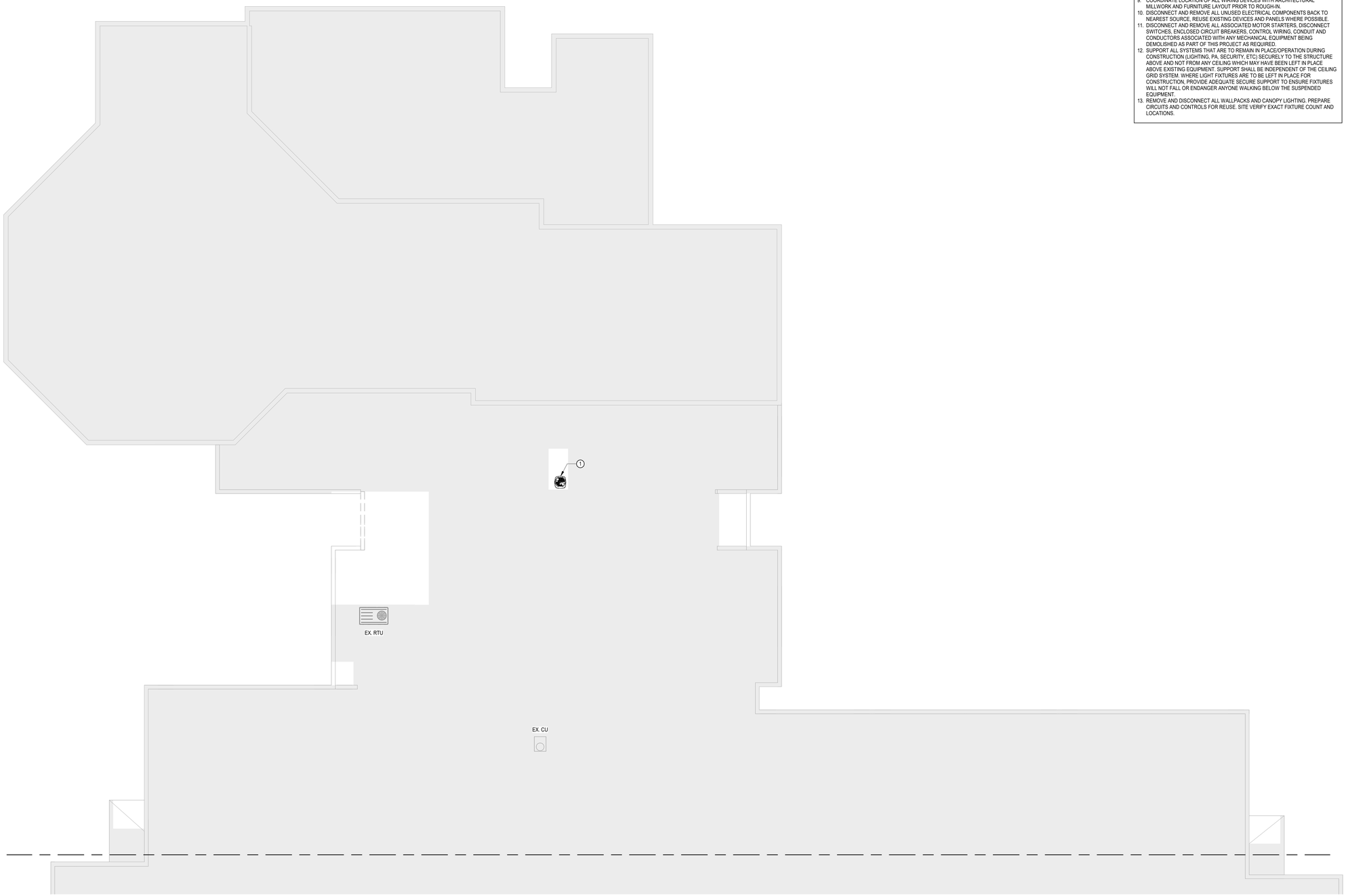
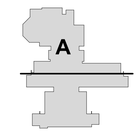
13. REMOVE AND DISCONNECT ALL WALLPACKS AND CANOPY LIGHTING. PREPARE CIRCUITS AND CONTROLS FOR REUSE. SITE VERIFY EXACT FIXTURE COUNT AND LOCATIONS.



1 ELECTRICAL ROOF DEMOLITION 'A'
SCALE: 3/32" = 1'-0"

TRUE NORTH
PLAN NORTH

KEY PLAN



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ELECTRICAL DEMOLITION ROOF PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

E0.40

PROJECT NO.: 2023208

NOTES BY SYMBOL:

1	DEMOLISH ELECTRICAL EQUIPMENT SERVING EXISTING DX SPLIT SYSTEM CONDENSING UNIT. PREPARE CIRCUIT FOR REUSE.

LEGEND

- EXISTING TO REMAIN
- DEMOLITION
- NOT IN SCOPE

ELECTRICAL DEMOLITION GENERAL NOTES:

1. EXISTING ELECTRICAL PANELS ARE TO REMAIN, UNLESS OTHERWISE NOTED. UPDATE ALL EXISTING PANEL DIRECTORIES WHEN WORK IS COMPLETE.
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7. EXISTING WALL TO REMAIN: EXISTING RECEPTACLES AND DATA TO REMAIN AND OPERATIONAL. TRACE ALL CIRCUITS NECESSARY FOR THE WORK.
8. REMOVE EXISTING PROJECTOR AND RETURN TO OWNER. KEEP EXISTING CIRCUIT FOR NEW DISPLAY.
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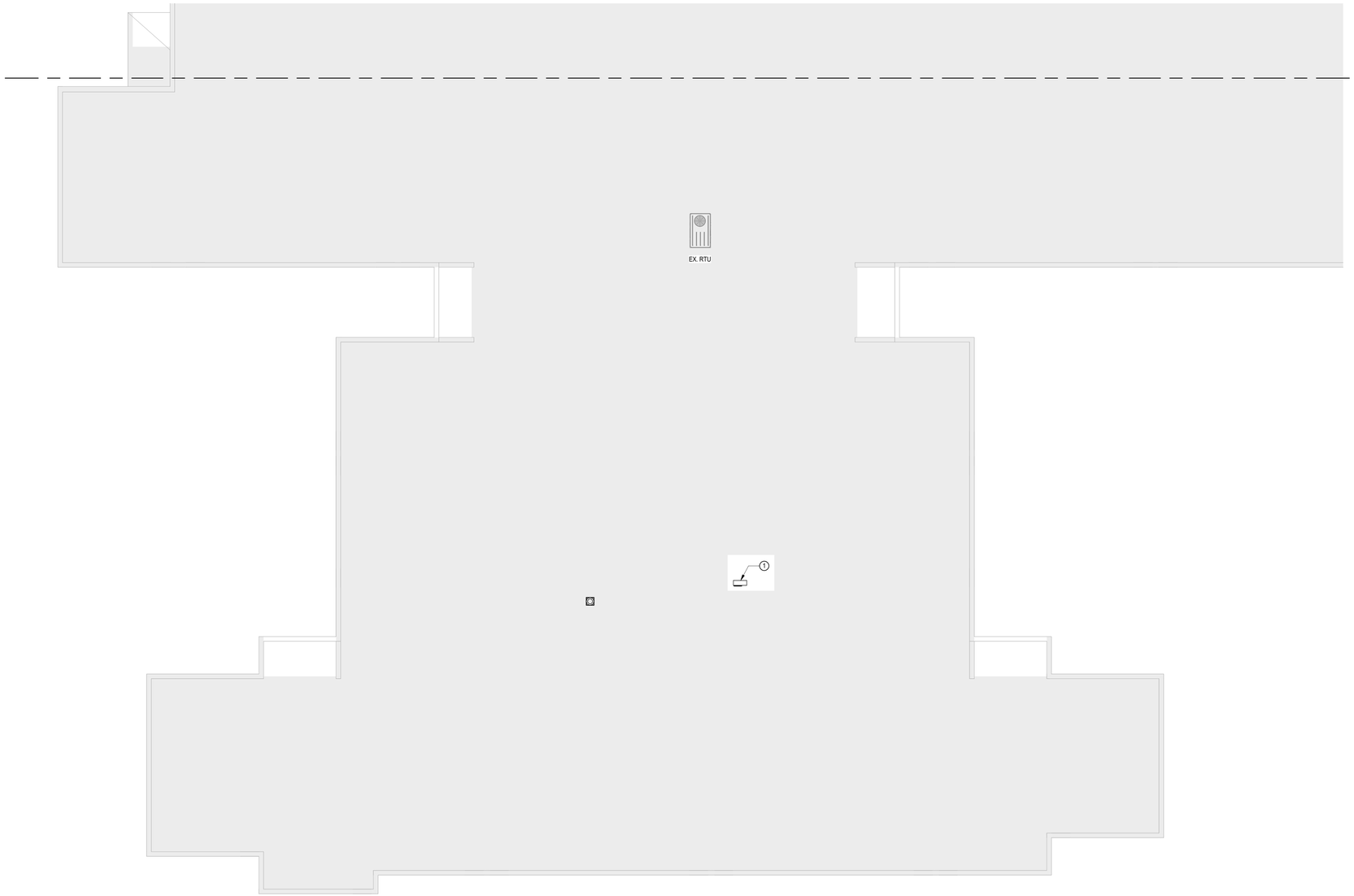
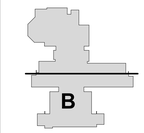
13. REMOVE AND DISCONNECT ALL WALLPACKS AND CANOPY LIGHTING. PREPARE CIRCUITS AND CONTROLS FOR REUSE. SITE VERIFY EXACT FIXTURE COUNT AND LOCATIONS.



TRUE NORTH / PLAN NORTH

1 ELECTRICAL ROOF DEMOLITION 'B'
SCALE: 3/32" = 1'-0"

KEY PLAN



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ELECTRICAL DEMOLITION ROOF PLAN 'B'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

E0.50

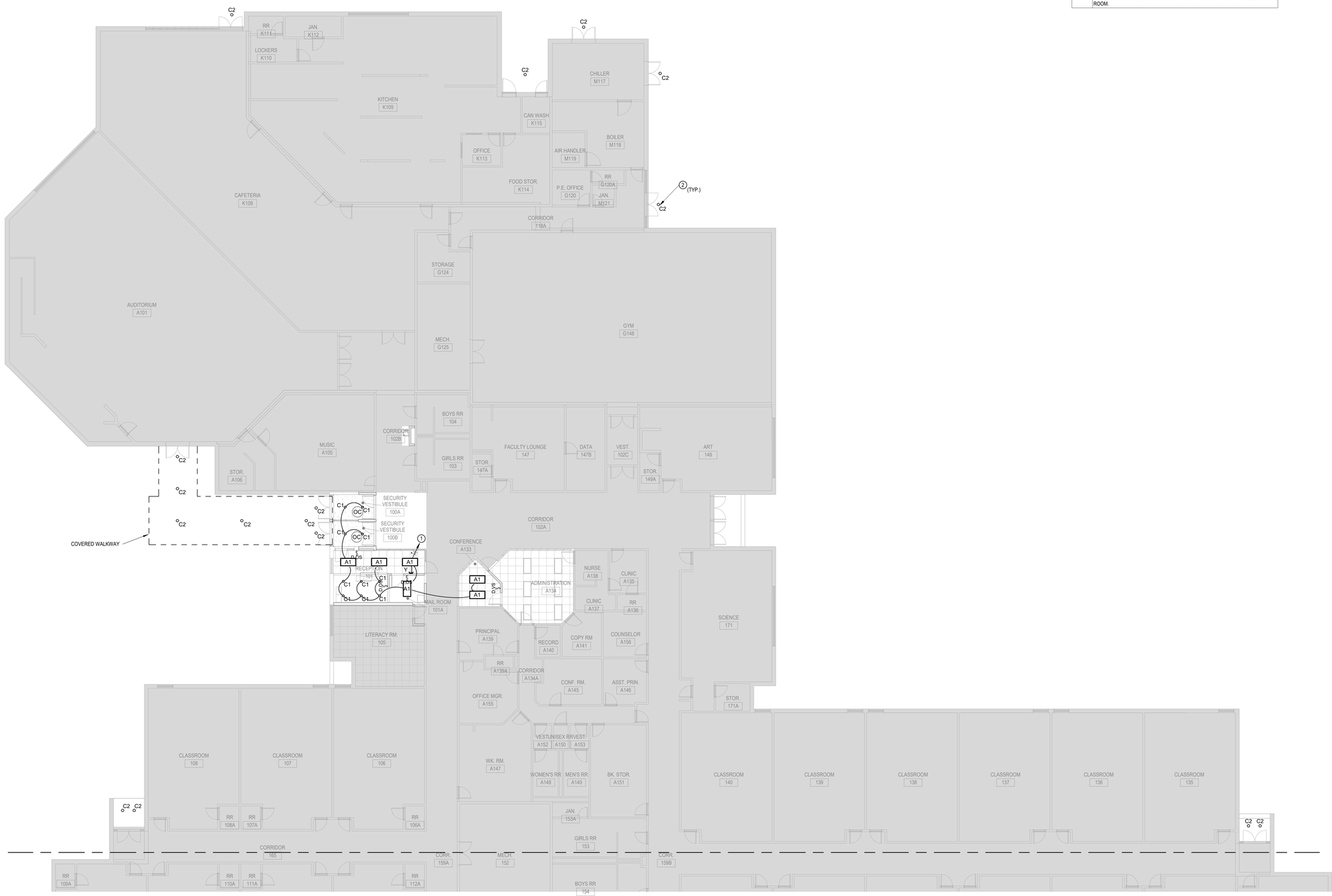
PROJECT NO.: 2023208

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. HATCHING REGION CLOSE TO WINDOW INDICATES DAYLIGHT ZONES.
4. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC. 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.

NOTES BY SYMBOL:

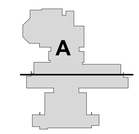
1	CONNECT TO EXISTING CIRCUIT SERVING THIS AREA. VERIFY TOTAL CONNECTED LOAD DOES NOT EXCEED 16A.
2	PROVIDE NEW LED CANOPY DOWNLIGHTS. REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMOLITION. ROUTE CIRCUIT THROUGH TIME SWITCH IN BOILER ROOM.



1 LIGHTING PLAN 'A'
SCALE: 3/32" = 1'-0"

TRUE NORTH
PLAN NORTH

KEY PLAN



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LIGHTING PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

E1.01

PROJECT NO.: 2023208

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. HATCHING REGION CLOSE TO WINDOW INDICATES DAYLIGHT ZONES.
4. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC. 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.

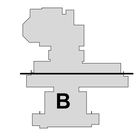
NOTES BY SYMBOL:

1	CONNECT TO EXISTING CIRCUIT SERVING THIS AREA. VERIFY TOTAL CONNECTED LOAD DOES NOT EXCEED 1920W.
2	PROVIDE NEW LED CANOPY DOWNLIGHTS AND 2021 IECC COMPLIANT CONTROLS. REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMOLITION.

TRUE NORTH / PLAN NORTH

1 LIGHTING PLAN 'B'
SCALE: 3/32" = 1'-0"

KEY PLAN



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LIGHTING PLAN 'B'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

E1.02

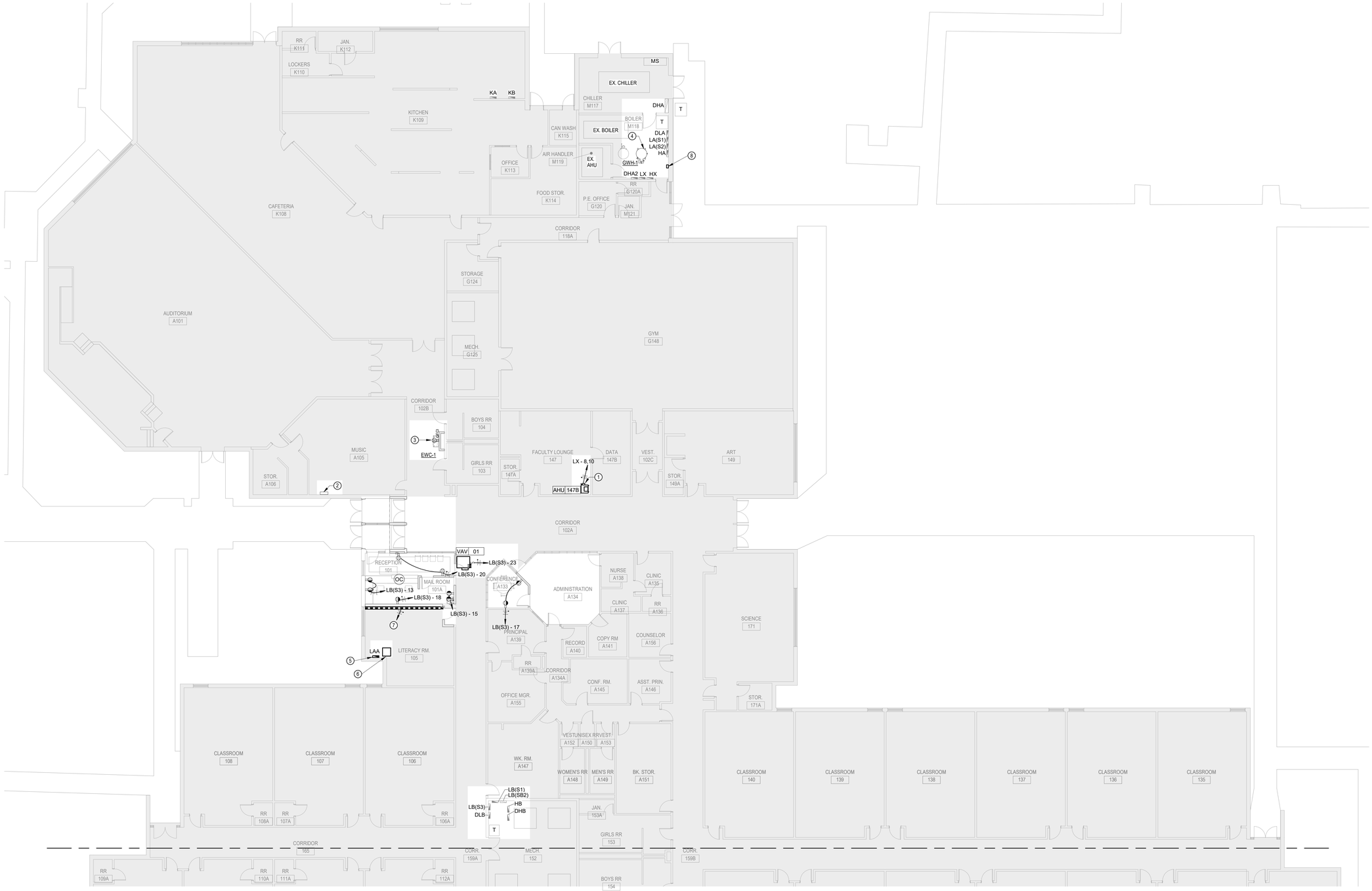
PROJECT NO.: 2023208

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 MOTOR RATED SWITCHES ON ROOF SHALL BE WEATHERPROOF (TYP.)
5. ALL DUPLEXES TO BE TAMPER PROOF.

NOTES BY SYMBOL:

1	PROVIDE 30A/NF/1P NEMA 1 DISCONNECT SWITCH. PROVIDE 3#10, #10G, 3/4"C.
2	EXISTING IDF RACK MOUNTED ON WALL.
3	REUSE EXISTING CIRCUIT MADE AVAILBALE IN DEMOLITION FOR ELECTRIC WATER COOLER. EXTEND CONDUCTORS AND RACEWAY AS NEEDED.
4	REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMOLITION FOR GWH-1.
5	NEW LOCATION FOR RELOCATED ELECTRICAL PANEL. EXTEND CONDUCTORS AND RACEWAY AS NEEDED.
6	NEW ABOVE-CEILING LOCATION FOR TRANSFORMER.
7	PROVIDE NEW WIREMOLD WITH CONTROLLED RECEPTACLES. CONNECT TO EXISTING CIRCUITS IN PANEL LAA MADE AVAILABLE IN DEMOLITION.
8	PROVIDE TORK EW101B 7 DAY TIME SWITCH FOR EXTERIOR LIGHTING.



1 POWER PLAN 'A'
SCALE: 3/32" = 1'-0"

TRUE NORTH
PLAN NORTH

KEY PLAN

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POWER PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

E2.01

PROJECT NO.: 2023208

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 MOTOR RATED SWITCHES ON ROOF SHALL BE WEATHERPROOF (TYP.)
5. ALL DUPLEXES TO BE TAMPER PROOF.

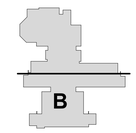
NOTES BY SYMBOL:

1	REUSE EXISTING CIRCUIT MADE AVAILBALE IN DEMOLITION FOR ELECTRIC WATER COOLER.
2	EXISTING IDF RACK MOUNTED ON WALL.

1 POWER PLAN 'B'
SCALE: 3/32" = 1'-0"

TRUE NORTH
PLAN NORTH

KEY PLAN



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PROFESSIONAL ENGINEER

09/18/2024

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Registration No. 9102

ORG 273 DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

POWER PLAN 'B'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

E2.02

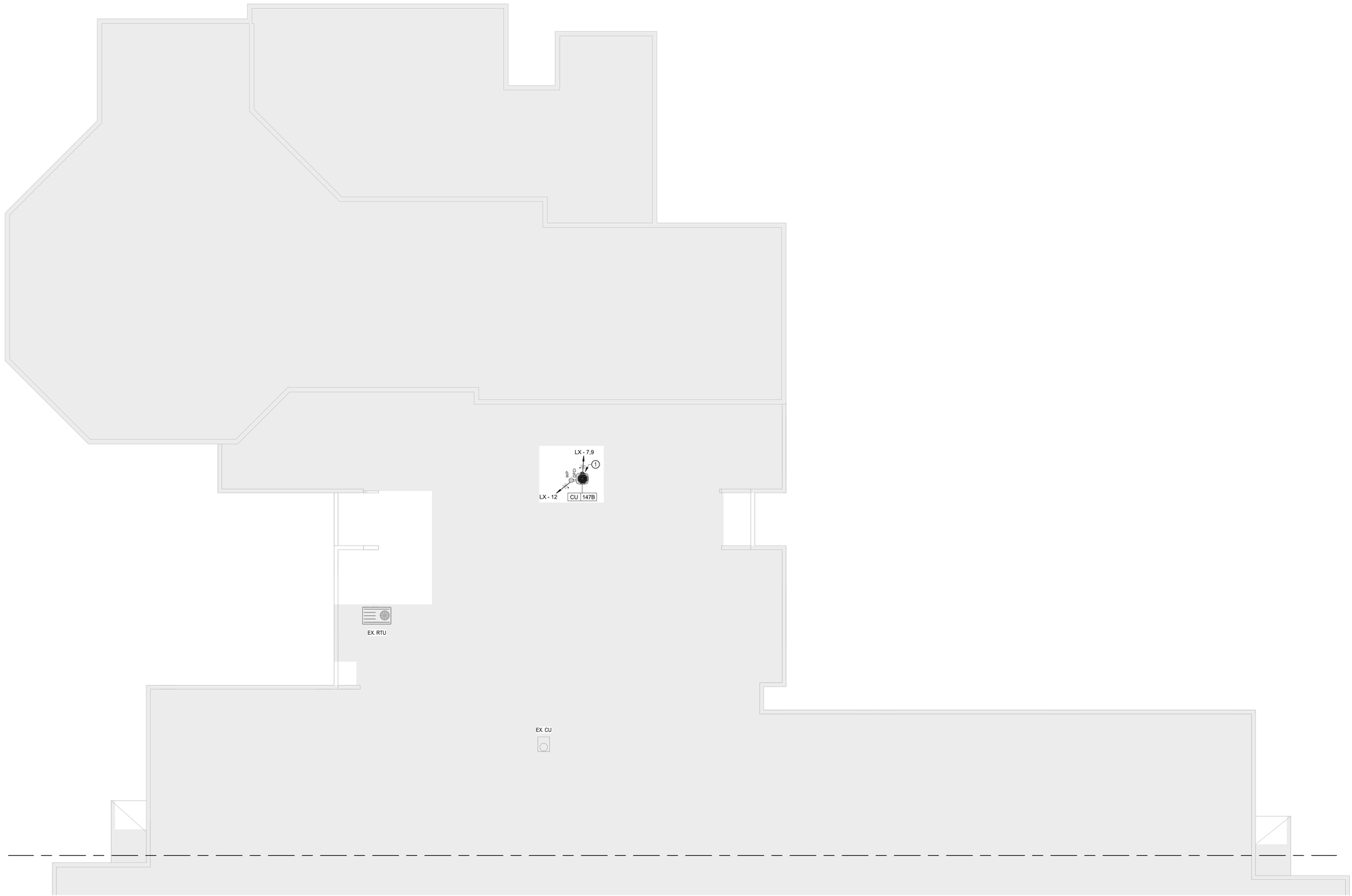
PROJECT NO.: 2023208

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 MOTOR RATED SWITCHES ON ROOF SHALL BE WEATHERPROOF (TYP.)

NOTES BY SYMBOL:

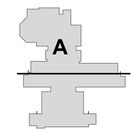
1	PROVIDE (2)#10, #10G, 3/4"C AND 240V NEMA 3R 30A/NF/2P DISCONNECT.



1 POWER ROOF PLAN 'A'
SCALE: 3/32" = 1'-0"

TRUE NORTH
PLAN NORTH

KEY PLAN



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1614 N St Augustine Rd, Dallas, TX 75217

POWER ROOF PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

E2.03

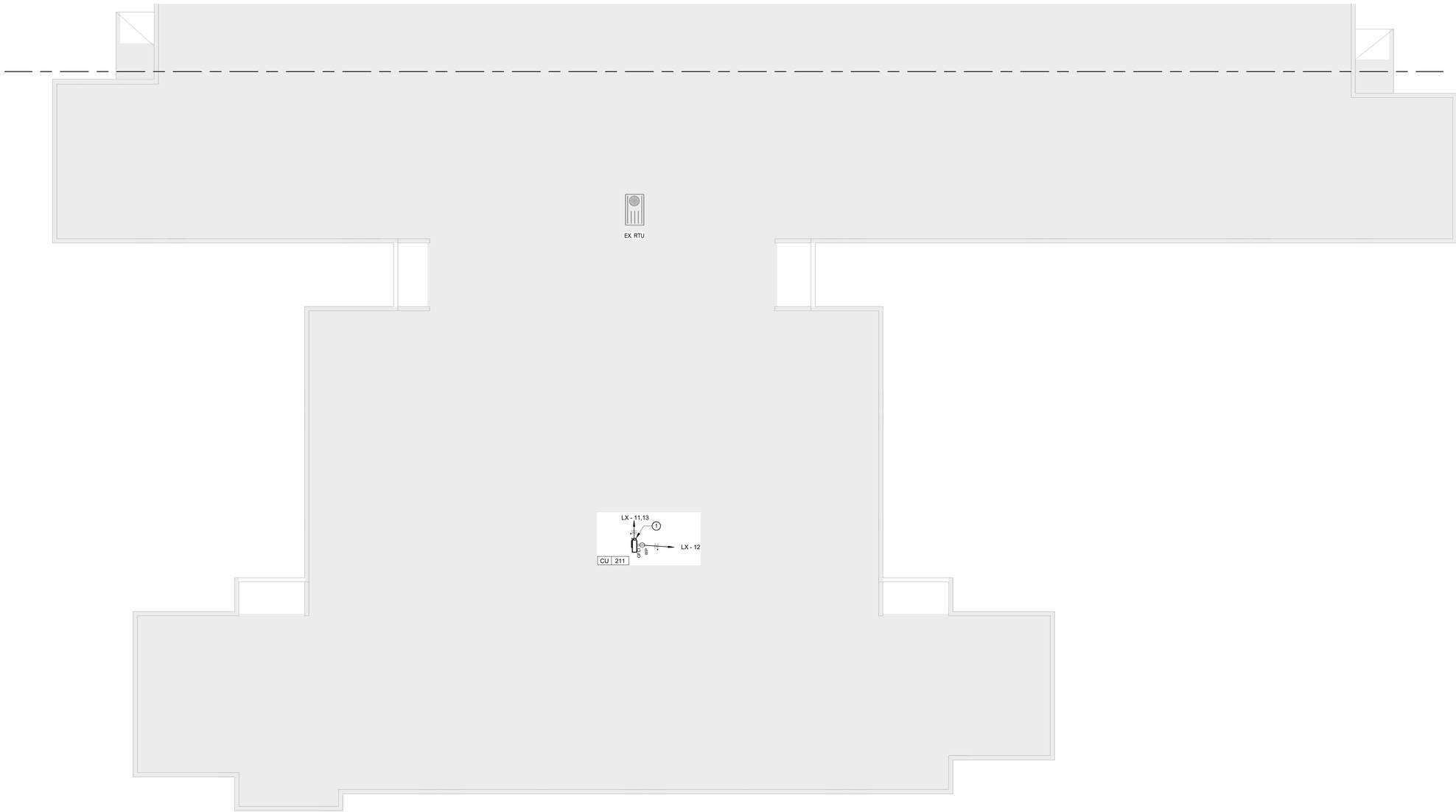
PROJECT NO.: 2023208

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 VAVS, DAMPERS, FCU'S, ETC PRIOR TO ROUGH-IN.
3. PROVIDE FACELESS GFCI BUTTON FOR ALL INACCESSIBLE DEVICES.
4. ALL MOTOR RATED SWITCHES ON ROOF SHALL BE WEATHERPROOF (TYP.)

NOTES BY SYMBOL:

1	PROVIDE (2)#10, #10G, 3/4"C AND 240V NEMA 3R 30A/NF/2P DISCONNECT.



1 POWER ROOF PLAN 'B'
SCALE: 3/32" = 1'-0"

TRUE NORTH PLAN NORTH

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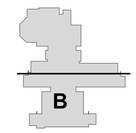
KEY PLAN



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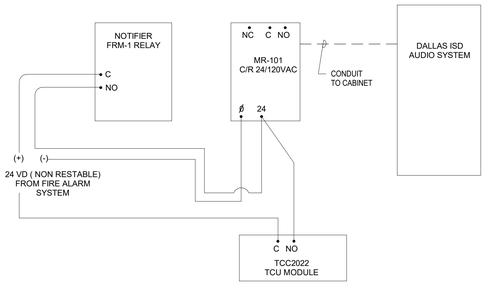
POWER ROOF PLAN 'B'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

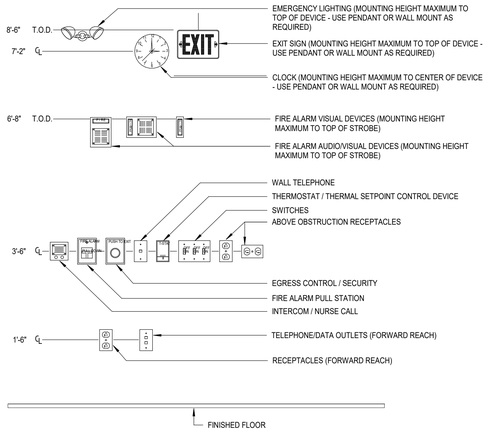
E2.04

PROJECT NO.: 2023208



8 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.

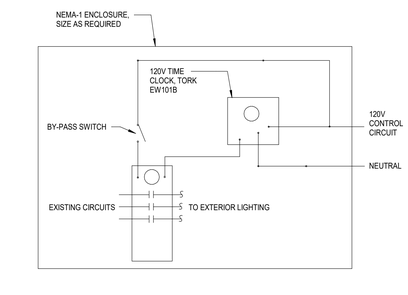
2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.

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.

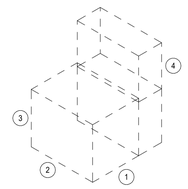
4 TYPICAL DEVICE MOUNTING HEIGHTS DETAIL

SCALE: NOT TO SCALE



7 EXTERIOR LIGHT CONTROL SCHEMATIC

SCALE: NOT TO SCALE

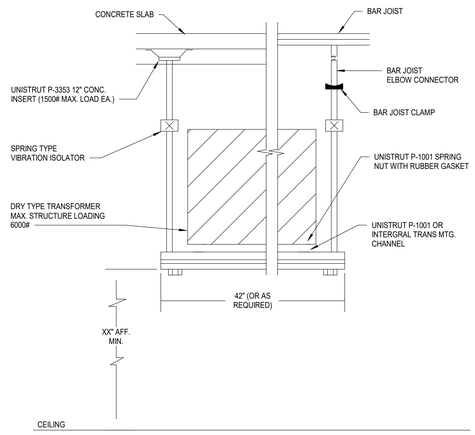


NOTES BY SYMBOL:

1. REFER TO NEC ARTICLE 110.26(A)(1)(a) THROUGH 110.26(A)(1)(c) FOR DEPTH OF WORKING SPACE FOR ELECTRICAL EQUIPMENT 600V OR LESS.
2. REFER TO NEC ARTICLE 110.26(A)(2) FOR WIDTH OF WORKING SPACE FOR ELECTRICAL EQUIPMENT 600V OR LESS.
3. REFER TO NEC ARTICLE 110.26(A)(3) FOR HEIGHT OF WORKING SPACE FOR ELECTRICAL EQUIPMENT 600V OR LESS.
4. REFER TO NEC ARTICLE 110.26(E)(1)(a) THROUGH 110.23(E)(1)(d) FOR DEDICATED EQUIPMENT SPACE FOR ELECTRICAL EQUIPMENT 600V OR LESS.

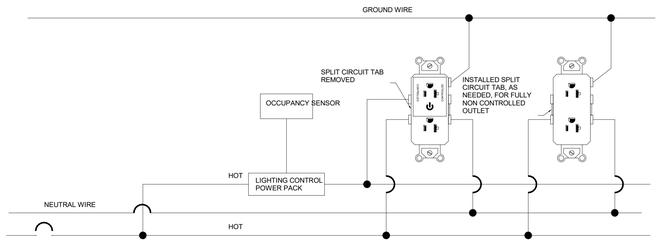
6 TYPICAL WORKING CLEARANCES

SCALE: NOT TO SCALE



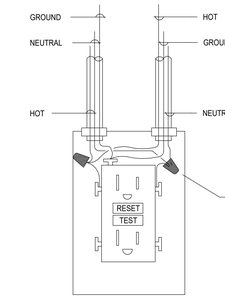
5 SUSPENDED TRANSFORMER MOUNTING DETAIL

SCALE: NOT TO SCALE



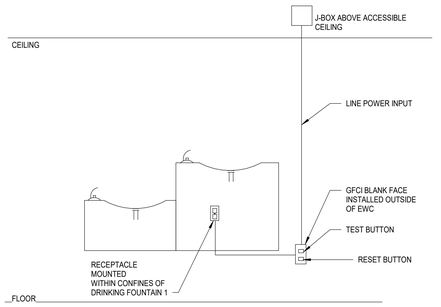
9 ELECTRICAL WATER COOLER POWER DETAIL

SCALE: NOT TO SCALE



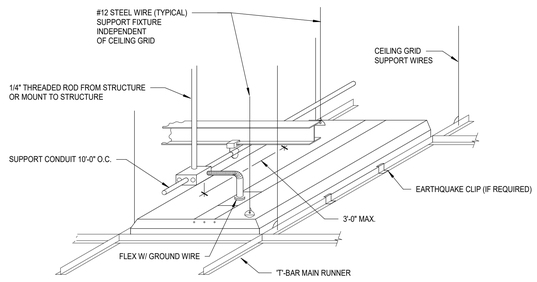
3 GFCI RECEPTACLE WIRING DIAGRAM

SCALE: NOT TO SCALE



2 ELECTRICAL WATER COOLER POWER DETAIL

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
09/03/24	100% SET
09/18/24	BID SET

E3.01

PROJECT NO.: 2023208

PANEL NAME: LAA

MAIN RATING: 100 A **MCB RATING:** 100 A **A.I.C. RATING:** 10K AIC **VOLTS:** 208/120 3PH, 4W **SUPPLIED FROM:** **MOUNTING:** SURFACE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE	20 A	1	0.00			0.00			3	100 A	MAIN	2
3	EXISTING	--	1		--			0.00		--	--	--	4
5	EXISTING	--	1			--			0.00	--	--	--	6
7	EXISTING	--	1	--			--			1	--	EXISTING	8
9	EXISTING	--	1		--			--		1	--	EXISTING	10
11	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	12
13	EXISTING	--	1	--			--			1	--	EXISTING	14
15	EXISTING	--	1		--			--		1	--	EXISTING	16
17	RCPTS	20 A	1			1.08			0.00	1	20 A	SPARE	18
19	MARQUEE SIGN	20 A	1	0.50			0.00			1	20 A	SPARE	20
21	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	22
23	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	26
27	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	28
29	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	30
31	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	32
33	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	34
35	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	38
39	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	40
41	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	42
			TOTAL...	0.50		0.00		1.08					
			TOTAL...	4.81 A		0.00 A		9.64 A					

LOAD CLASSIFICATION	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
Power	500 VA	100.00%	500 VA		
RCPTS	1080 VA	100.00%	1080 VA	**TOTAL CONN. LOAD:**	1.19 kVA
				TOTAL EST. DEMAND:	1.19 kVA
				TOTAL CONN.:	3.30 A
				TOTAL EST. DEMAND:	3.30 A

NOTES:

PANEL NAME: LX

MAIN RATING: 100 A **MCB RATING:** 100 A **A.I.C. RATING:** 10K AIC **VOLTS:** 208/120 3PH, 4W **SUPPLIED FROM:** **MOUNTING:** SURFACE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	--	1	--			--			1	--	EXISTING	2
3	EXISTING	--	1		--			--		1	--	EXISTING	4
5	EXISTING	--	1			--			--	1	--	EXISTING	6
7	CU-147B	15 A	2	0.38			0.36			2	15 A	AHU-147B	8
9	--	--	--		0.38			0.36		--	--	--	10
11	CU-211	30 A	2			2.40			0.36	1	20 A	RECEPTACLE	12
13	--	--	--	2.40			--			1	--	EXISTING	14
15								--		1	--	EXISTING	16
17									--	1	--	EXISTING	18
			TOTAL...	3.14		0.74		2.76					
			TOTAL...	28.75 A		6.16 A		25.59 A					

LOAD CLASSIFICATION	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
HVAC	1478 VA	100.00%	1478 VA		
Power	4800 VA	100.00%	4800 VA	**TOTAL CONN. LOAD:**	6.64 kVA
RECEPTACLE	360 VA	100.00%	360 VA	**TOTAL EST. DEMAND:**	6.64 kVA
				TOTAL CONN.:	18.43 A
				TOTAL EST. DEMAND:	18.43 A

NOTES:

PANEL NAME: LB(S3)

MAIN RATING: 100 A **MCB RATING:** 100 A **A.I.C. RATING:** 10K AIC **VOLTS:** 208/120 3PH, 4W **SUPPLIED FROM:** **MOUNTING:** SURFACE

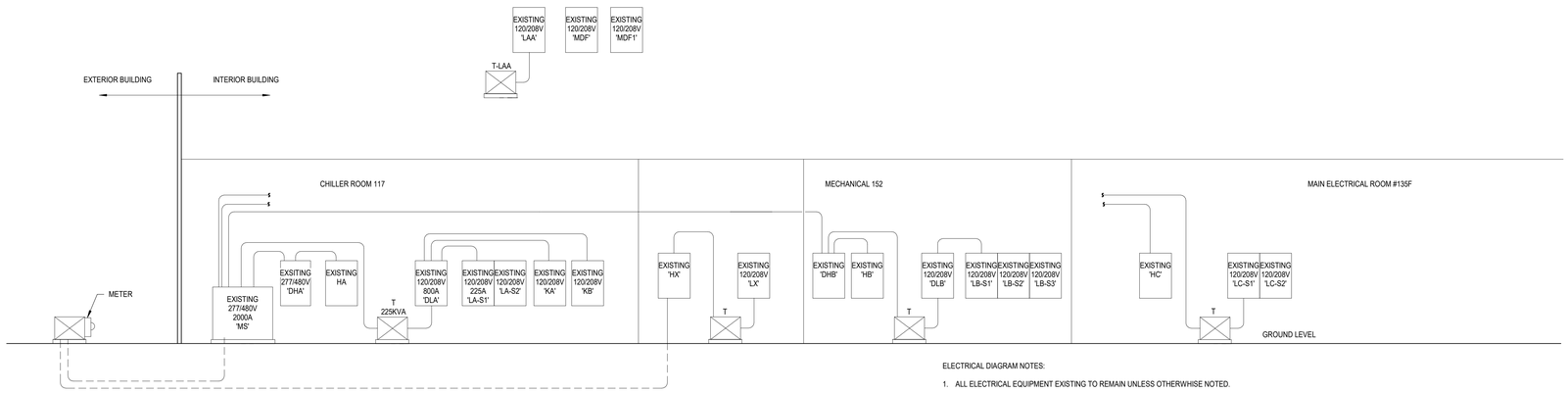
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	--	1	--			--			1	--	EXISTING	2
3	EXISTING	--	1		--			--		1	--	EXISTING	4
5	EXISTING	--	1			--			--	1	--	EXISTING	6
7	EXISTING	--	1	--			--			1	--	EXISTING	8
9	EXISTING	--	1		--			--		1	--	EXISTING	10
11	EXISTING	--	1			--			--	1	--	EXISTING	12
13	RCPT - RECEPTION 1	20 A	1	0.36			--			1	--	EXISTING	14
15	RCPT - MAIL ROOM	20 A	1		0.36			--		1	--	EXISTING	16
17	RCPT - CONFERENCE ROOM	20 A	1			0.36			0.18	1	20 A	RCPT - RECEPTION 2	18
19	RCPT - CUSTODIAL OFFICE	20 A	1	0.36			0.36			1	20 A	RCPT - RECEPTION 3	20
21	RCPT - CUSTODIAL OFFICE	20 A	1		0.36			0.18		1	20 A	RCPT - JAN. STORAGE	22
23	VAV-01	20 A	1			1.00							24
25													26
27													28
29													30
31	EXISTING	--	1	--									32
33	EXISTING	--	1		--								34
35	EXISTING	--	1			--							36
			TOTAL...	1.08		0.90		1.54					
			TOTAL...	9.23 A		7.50 A		13.06 A					

LOAD CLASSIFICATION	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
HVAC	1000 VA	100.00%	1000 VA		
RECEPTACLE	2520 VA	100.00%	2520 VA	**TOTAL CONN. LOAD:**	3.52 kVA
				TOTAL EST. DEMAND:	3.52 kVA
				TOTAL CONN.:	9.77 A
				TOTAL EST. DEMAND:	9.77 A

NOTES:

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMP	CCT	LUMENS	VOLTAGE	WATTAGE	UNITS	MANUFACTURER	MODEL
A1	2X4 TROFFER	RECESSED	LED	4000K	5169 LM	MVOTL	39 W	EACH	LITHONIA	2BLT4-48L-ADP-GZ1-LP840
B1	2X2 TROFFER	RECESSED	LED	4000K	2036 LM	MVOLT	16 W	EACH	LITHONIA	2BLT2-20L-ADP-GZ1-LP840
C1	6" DOWNLIGHT	RECESSED	LED	4000K	1514 LM	MVOLT	18 W	EACH	LITHONIA	LDN6-40/15-L06-AR-LSS-TRW-MVOLT-GZ1
C2	CANOPY DOWNLIGHT	RECESSED	LED	4000K	2006 LM	MVOLT	23 W	EACH	LITHONIA	LDN6-40/20-L06-AR-LSS-TRW-MVOLT-GZ1-EL
P1	18.5'X 10" FULL CUT OFF, ALUMINIUM HOUSING SITE FIXTURE	MOUNTED ON EXISTING POLE	LED	4000K	17288 LM	MVOLT	138 W	EACH	LITHONIA	DSX1-P5-40K-TFTM-MVOLT-MOUNTING-PIR-PER-HS-DMG-DBLXD-DM19AS
P2	18.5'X 10" FULL CUT OFF, ALUMINIUM HOUSING SITE FIXTURE, 2 HEADS	MOUNTED ON EXISTING POLE	LED	4000K	34576 LM	MVOLT	276 W	EACH	LITHONIA	DSX1-P5-40K-TFTM-MVOLT-MOUNTING-PIR-PER-HS-DMG-DBLXD-DM28AS
W1	9"X 5.5" FULL CUT OFF RECTILINEAR HOUSING SITE FIXTURE	SURFACE MOUNTED	LED	4000K	1809 LM	MVOLT	15 W	EACH	LITHONIA	WDGE1 LED-P2-40K-80CRI-VW-MVOLT-SRM-DMG-DBLXD
Y	BUG EYE	SURFACE	LED	4000K	640 LM	MVOLT	3 W	EACH	LITHONIA	ELM4L



ELECTRICAL DIAGRAM NOTES:

1. ALL ELECTRICAL EQUIPMENT EXISTING TO REMAIN UNLESS OTHERWHISE NOTED.

1 RISER DIAGRAM
NOT TO SCALE

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ELECTRICAL SCHEDULES AND DIAGRAMS

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

E4.01

PROJECT NO.: 2023208

NOTES BY SYMBOL:

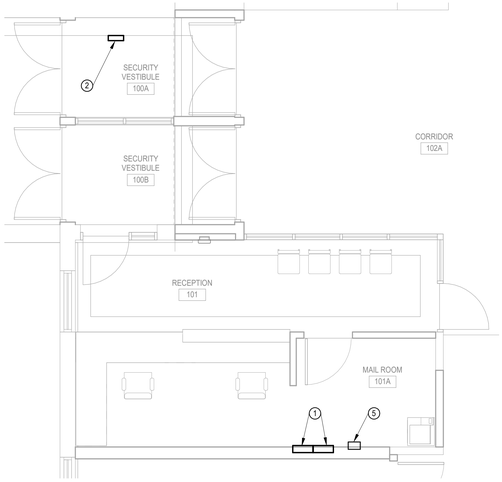
1	PROPOSED LOCATION FOR NEW FIRE ALARM CONTROL PANEL . PROVIDE BOX NEXT TO FA PANEL TO STORE FA SHOP DRAWINGS.
2	PROPOSED LOCATION FOR FIRE ALARM ANNUNCIATOR IN SECURITY VESTIBULE VESTIBULE.
3	PROVIDE NEW FIRE ALARM SYSTEM IN ALL HATCHED AREAS.
4	PROPOSED ROUTING FOR NEW FA SYSTEM FROM MAIN BUILDING TO EARLY CHILD HOOD CENTER. RUN NEW CONDUITS ABOVE COVER WALKWAY.
5	PROPOSED LOCATION FOR FIRE ALARM SUBSCRIBER. INSTALL WITH TOP OF BOX 6" BELOW CEILING.
6	PROPOSED LOCATION IN DATA 147B FOR STROBE AND POWER SUPPLY.

GENERAL NOTES - FIRE ALARM:

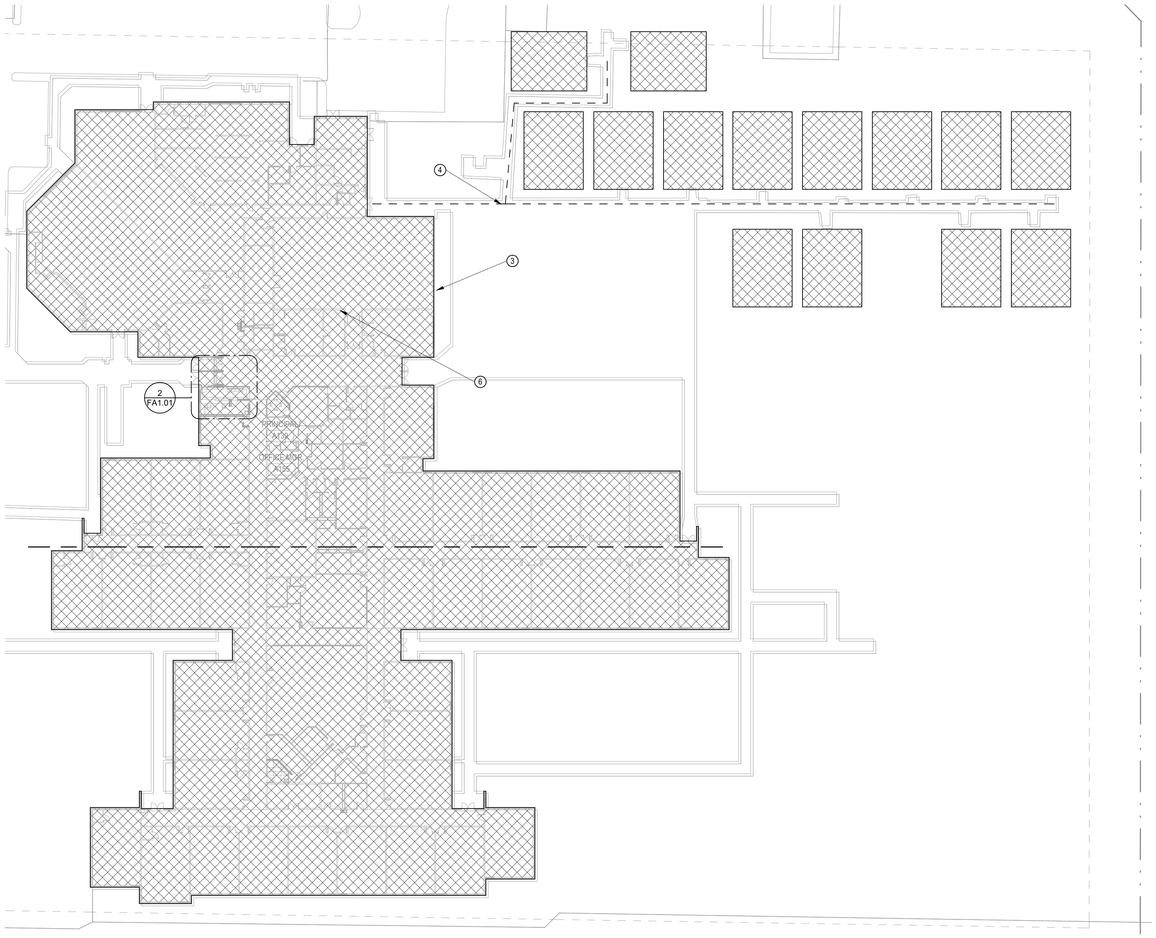
1. **DELEGATED DESIGN:** PROVIDE A NEW FIRE ALARM SYSTEM NOTIFIER NFS2-3030 VOICE SYSTEM IN ACCORDANCE WITH THE DISD TDGS AND CITY OF DALLAS CODES. COMPLETE FIRE ALARM SYSTEM AND VOICE EVACUATION SYSTEM SHALL COMPLY WITH CURRENT CODES AND REQUIREMENTS OF FIRE MARSHAL AND AHJ, SEE SPECIFICATIONS 284621.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. THE NEW FIRE ALARM SYSTEM SHALL BE MULTI-MODE NETWORK CAPABLE WITH HIGH-SPEED DATA COMMUNICATIONS COMPATIBLE WITH BACNET/IP AND MODBUS/IP.
9. THE CONTRACTOR SHALL OBTAIN AND ENGAGE THE SERVICES OF A LICENSED FIRE ALARM INSTALLATION COMPANY TO DESIGN, INSTALL AND TEST THE FIRE ALARM SYSTEM.
10. 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.
11. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF NEW AND EXISTING DUCT DETECTORS. MECHANICAL CONTRACTOR IS TO FURNISH AND INSTALL DUCT DETECTORS. FA, CONTROLS, AND ELECTRICAL CONTRACTORS ARE TO WIRE DUCT DETECTORS.
12. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANY ADDITIONAL PATHWAYS AND ELECTRICAL RECEPTACLES 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.
13. RETEST THE EXISTING SYSTEM AT NO COST TO THE OWNER IF REQUIRED BY THE AHJ.
14. EXISTING FIRE ALARM SYSTEM TO REMAIN OPERATIONAL DURING RENOVATION.
15. PROVIDE SMOKE DETECTORS IN ELECTRICAL AND COMMUNICATION ROOMS.
16. MONITOR ALL FIRE PROTECTION SYSTEM TAMPER SWITCHES, FLOW SWITCHES OR PRESSURE SWITCHES.
17. 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.
18. ALL DEVICES SHALL BE ADDRESSABLE. ALL SMOKE AND HEAT DETECTORS SHALL BE INTELLIGENT TYPE.
19. 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.
20. PROVIDE DUCT DETECTORS WHERE REQUIRED BY NFPA, SUPPLY FROM NEAREST 120V PANEL.
21. PROVIDE PROTECTIVE COVERS FOR FIRE ALARM DEVICES LOCATED IN GYM.
22. CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENTS, INCLUDING COMPLETE WIRING DIAGRAMS, SYSTEM CALCULATIONS, SIGNED AND SEALED DOCUMENTS, AS ACCEPTED AND APPROVED BY A.H.J.
23. FA DESIGN / SYSTEM MUST HAVE AN OVERRIDE FOR COMMON AREAS LIKE AUDITORIUM, GYMNASIUM, AND CAFETERIA.
24. UPON COMPLETION OF FA AND / OR PA SCOPE, CONTACT DISD FACILITIES (COORDINATE WITH JACOBS PM) FOR DISD FACILITIES TO VERIFY/COMMISSION THE SYSTEM PRIOR TO THE SUBSTANTIAL COMPLETION WALK.

GENERAL NOTES - FIRE ALARM:

1. FIRE ALARM MAIN PANEL TO BE INSTALLED IN THE RECEPTION.
2. FIRE ALARM ANNUNCIATOR PANEL TO BE INSTALLED IN A SECURED VESTIBULE.
3. AS BUILT FIRE ALARM DRAWINGS TO BE STORED IN THE DOCUMENT BOX NEXT TO THE FACP.
4. FA GREEN TAG AND INSTALLATION STICKER TO BE ATTACHED WITH THE FA PANEL.
5. FA DESIGN / SYSTEM MUST HAVE AN OVERRIDE FOR ANY SOUND SYSTEM IN COMMON AREAS LIKE AUDITORIUM, GYMNASIUM, AND CAFETERIA.
6. DUCT DETECTORS TO BE POWERED FROM THE FIRE ALARM SYSTEM NOT FROM THE AC UNIT IT IS CONNECTED TO.
7. FA CONTRACTOR TO PROVIDE AES DEVICES (AES 7707P-88-ULP-M) FOR WIRELESS COMMUNICATION WITH THE LOCAL FIRE STATION.
8. THE CONTRACTOR TO REMOVE, SECURE AND PROPERLY BOX ALL EXISTING FIRE ALARM DEVICES (EXAMPLE, STROBES, PULL DOWNS, DETECTORS ETC.) FOR DISD PICKUP.
9. THE CONTRACTOR TO INCLUDE "RADIO COMMUNICATIONS TESTING"PART OF THIS SCOPE AS REQUIRED BY THE CITY OF DALLAS.
10. SPRINKLER IN ELEVATOR MACHINE ROOM MUST BE REMOVED AND ONLY A SMOKE DETECTOR INSTALLED.
11. 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.
12. AN ELEVATOR CONTRACTOR SHALL BE PRESENT WHEN THE FA CONTRACTOR CONNECTS / TERMINATES THE NEW FA WIRING WITH THE ELEVATOR CONTROLLER.
13. DURING THE CITY FA INSPECTION, AN ELEVATOR CONTRACTOR MUST BE PRESENT AS WELL.



2 FIRE ALARM PLAN - RECEPTION
SCALE: 1/4" = 1'-0"



1 FIRE ALARM PLAN
SCALE: 1" = 30'-0"
TRUE NORTH
PLAN NORTH

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09/18/2024

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DALLAS INDEPENDENT SCHOOL DISTRICT

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1614 N St Augustine Rd, Dallas, TX 75217

FIRE ALARM PLAN

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

KEY PLAN

FA1.01

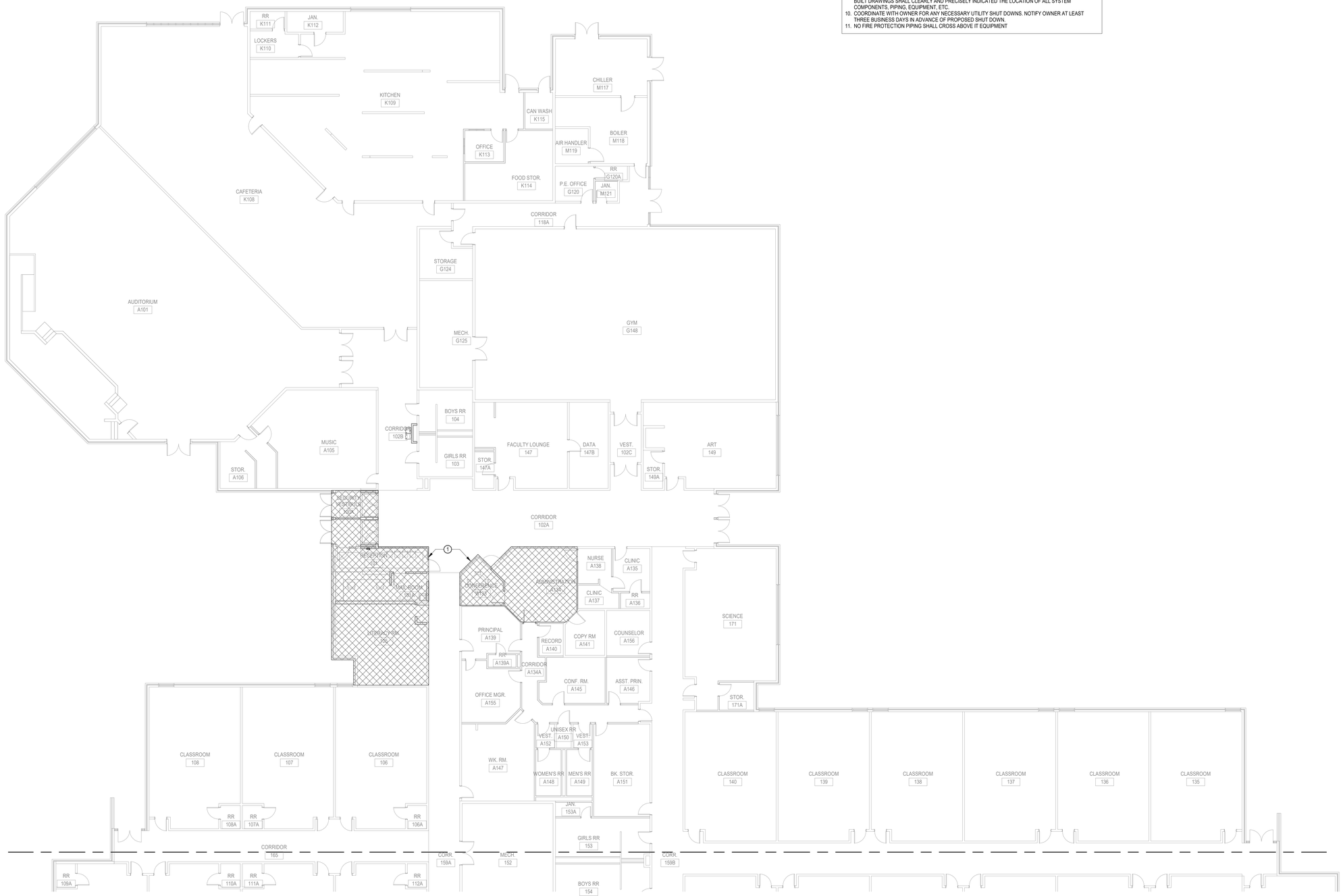
PROJECT NO.: 2023208

FIRE PROTECTION GENERAL NOTES:

1. DELEGATED DESIGN: THE FIRE PROTECTION INFORMATION PROVIDED ON THESE DRAWINGS AND IN THE SPECIFICATIONS IS FOR ASSISTANCE IN THE BIDDING PROCESS ONLY. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED BY A LICENSED FIRE PROTECTION ENGINEER OR NICET CERTIFIED DESIGNER AS REQUIRED BY THE GOVERNING AUTHORITY. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF ALL APPLICABLE CODES AND THE AUTHORITY HAVING JURISDICTION.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE PROJECT SPECIFICATIONS. REFER TO DIVISION 21 SPECIFICATIONS FOR SPECIFIC PERFORMANCE REQUIREMENTS, MATERIALS, ROUTING REQUIREMENTS, ETC.
3. PROVIDE A COMPLETE AND FUNCTIONAL FIRE PROTECTION SYSTEM(S) WITHIN HATCHED AREAS. WHERE HATCHED AREAS INTERFACE WITH EXISTING CONSTRUCTION, MODIFY EXISTING FIRE PROTECTION SYSTEMS AS NECESSARY FOR CODE COMPLIANCE.
4. HAZARD CLASSIFICATIONS AND DENSITIES SHALL BE PER NFPA.
5. COORDINATE WITH ARCHITECT FOR HEAD TYPES. IF NOT OTHERWISE STATED PROVIDE CONCEALED SPRINKLER HEADS IN ALL CEILINGS TO THE EXTENT ALLOWABLE BY CODES.
6. REVIEW ALL PROJECT DOCUMENTS AND BECOME FAMILIAR WITH THE ENTIRE PROJECT. COORDINATE INSTALLATION WITH BUILDING ARCHITECTURE AND STRUCTURE. COOPERATE AND COORDINATE INSTALLATION WITH ALL OTHER TRADES AS REQUIRED TO ENSURE A CAREFULLY COORDINATED INSTALLATION.
7. PERFORM A WATER FLOW TEST OF THE WATER SUPPLY. EXISTING FLOW TEST DATA MAY ONLY BE USED IF IT IS LESS THAN ONE YEAR OLD.
8. SUBMIT SEALED AND SIGNED SHOP DRAWINGS TO LOCAL AHJ FOR APPROVAL PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
9. MAINTAIN ON-SITE A LEGIBLE RECORD OF CHANGES TO FIRE PROTECTIONS DRAWINGS. AT THE END OF THE PROJECT TRANSFER ALL CHANGES TO FINAL AS-BUILT SET TO BE DELIVERED TO OWNER. AS-BUILT DRAWINGS SHALL CLEARLY AND PRECISELY INDICATED THE LOCATION OF ALL SYSTEM COMPONENTS, PIPING, EQUIPMENT, ETC.
10. COORDINATE WITH OWNER FOR ANY NECESSARY UTILITY SHUT DOWNS. NOTIFY OWNER AT LEAST THREE BUSINESS DAYS IN ADVANCE OF PROPOSED SHUT DOWN.
11. NO FIRE PROTECTION PIPING SHALL CROSS ABOVE IT EQUIPMENT

NOTES BY SYMBOL:

1	IN CROSS-HATCHED AREA, REWORK EXISTING WET PIPE SPRINKLER SYSTEM AS NEEDED TO ACCOMODATE NEW WALLS AND CEILINGS FOR NEW SECURE VESTIBULE AND EXPANDED ADMINISTRATION AREA.

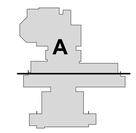


TRUE NORTH / PLAN NORTH

1 FIRE PROTECTION PLAN 'A'

SCALE: 3/32" = 1'-0"

KEY PLAN



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FIRE PROTECTION PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

FP1.01

PROJECT NO.: 2023208

FIRE PROTECTION GENERAL NOTES:

1. DELEGATED DESIGN: THE FIRE PROTECTION INFORMATION PROVIDED ON THESE DRAWINGS AND IN THE SPECIFICATIONS IS FOR ASSISTANCE IN THE BIDDING PROCESS ONLY. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED BY A LICENSED FIRE PROTECTION ENGINEER OR NICET CERTIFIED DESIGNER AS REQUIRED BY THE GOVERNING AUTHORITY. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF ALL APPLICABLE CODES AND THE AUTHORITY HAVING JURISDICTION.
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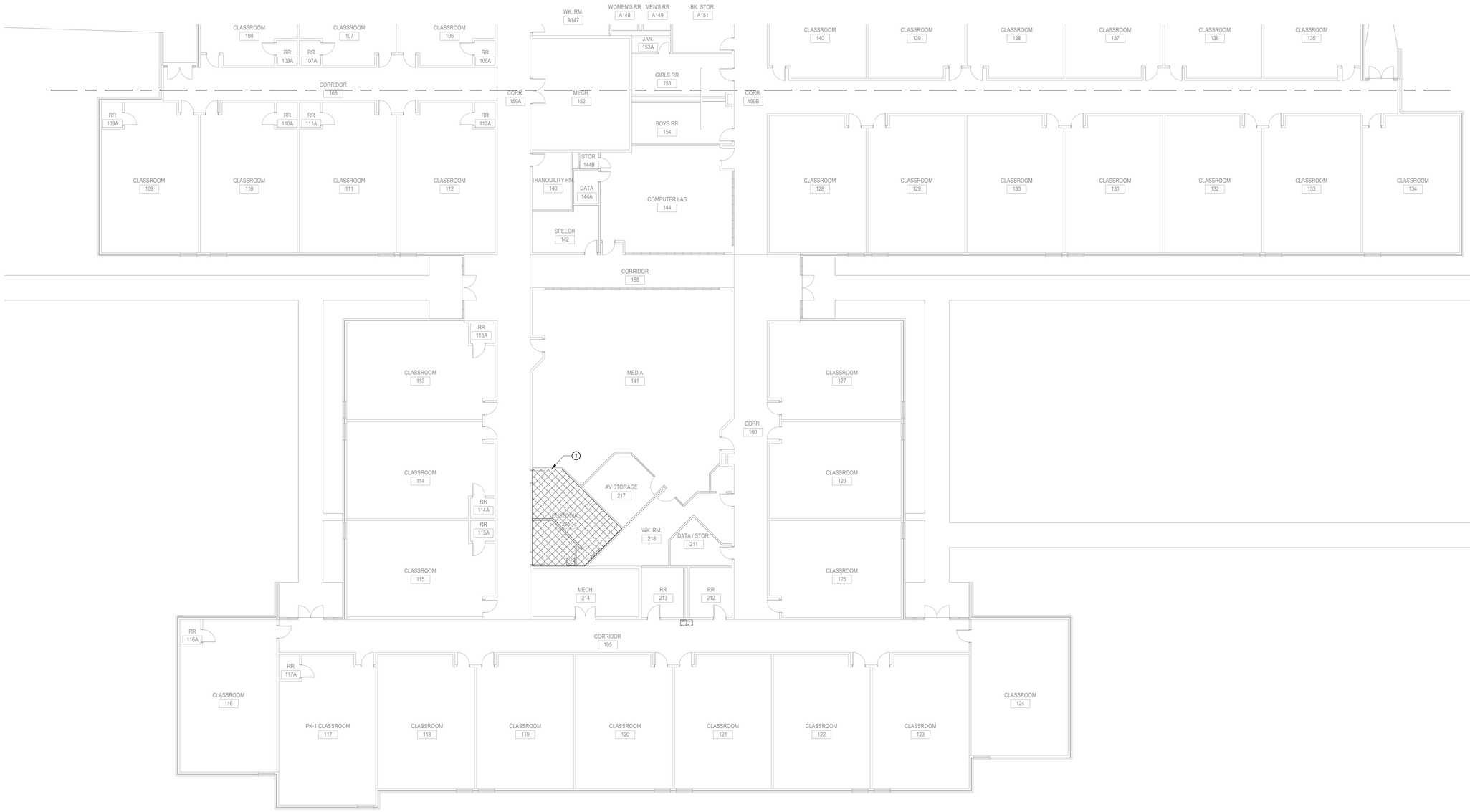
4. HAZARD CLASSIFICATIONS AND DENSITIES SHALL BE PER NFPA.
5. COORDINATE WITH ARCHITECT FOR HEAD TYPES. IF NOT OTHERWISE STATED PROVIDE CONCEALED SPRINKLER HEADS IN ALL CEILINGS TO THE EXTENT ALLOWABLE BY CODES.
6. REVIEW ALL PROJECT DOCUMENTS AND BECOME FAMILIAR WITH THE ENTIRE PROJECT. COORDINATE INSTALLATION WITH BUILDING ARCHITECTURE AND STRUCTURE. COOPERATE AND COORDINATE INSTALLATION WITH ALL OTHER TRADES AS REQUIRED TO ENSURE A CAREFULLY COORDINATED INSTALLATION.
7. PERFORM A WATER FLOW TEST OF THE WATER SUPPLY. EXISTING FLOW TEST DATA MAY ONLY BE USED IF IT IS LESS THAN ONE YEAR OLD.
8. SUBMIT SEALED AND SIGNED SHOP DRAWINGS TO LOCAL AHJ FOR APPROVAL PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
9. MAINTAIN ON-SITE A LEGIBLE RECORD OF CHANGES TO FIRE PROTECTIONS DRAWINGS. AT THE END OF THE PROJECT TRANSFER ALL CHANGES TO FINAL AS-BUILT SET TO BE DELIVERED TO OWNER. AS-BUILT DRAWINGS SHALL CLEARLY AND PRECISELY INDICATED THE LOCATION OF ALL SYSTEM COMPONENTS, PIPING, EQUIPMENT, ETC.
10. COORDINATE WITH OWNER FOR ANY NECESSARY UTILITY SHUT DOWNS. NOTIFY OWNER AT LEAST THREE BUSINESS DAYS IN ADVANCE OF PROPOSED SHUT DOWN.
11. NO FIRE PROTECTION PIPING SHALL CROSS ABOVE IT EQUIPMENT

NOTES BY SYMBOL:

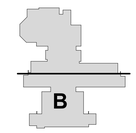
1	IN CROSS-HATCHED AREA, REWORK EXISTING WET PIPE SPRINKLER SYSTEM AS NEEDED TO ACCOMODATE NEW WALLS AND CEILINGS FOR RENOVATED STORAGE ROOM.



TRUE NORTH / PLAN NORTH

1 FIRE PROTECTION PLAN 'B'
SCALE: 3/32" = 1'-0"

KEY PLAN



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FIRE PROTECTION PLAN 'B'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

FP1.02

PROJECT NO.: 2023208

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 MULTI	FIXED MULTISENSOR CAMERA
CAM	FIXED 110 DEGREE CAMERA
ES	ELECTRIC DOOR STRIKE
REX	REQUEST TO EXIT DEVICE
DC	DOOR CONTACTS
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
C X	VALCOM VL520 - CLOCK/SPEAKER (X IDENTIFIES NUMBER OF FACES)

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 CSI-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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09/18/2024

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ORG 273 DISD PLEASANT GROVE ELEMENTARY

1614 N St Augustine Rd, Dallas, TX 75217

TECHNOLOGY COVER

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

T0.01

PROJECT NO.: 2023208

NOTES BY SYMBOL:

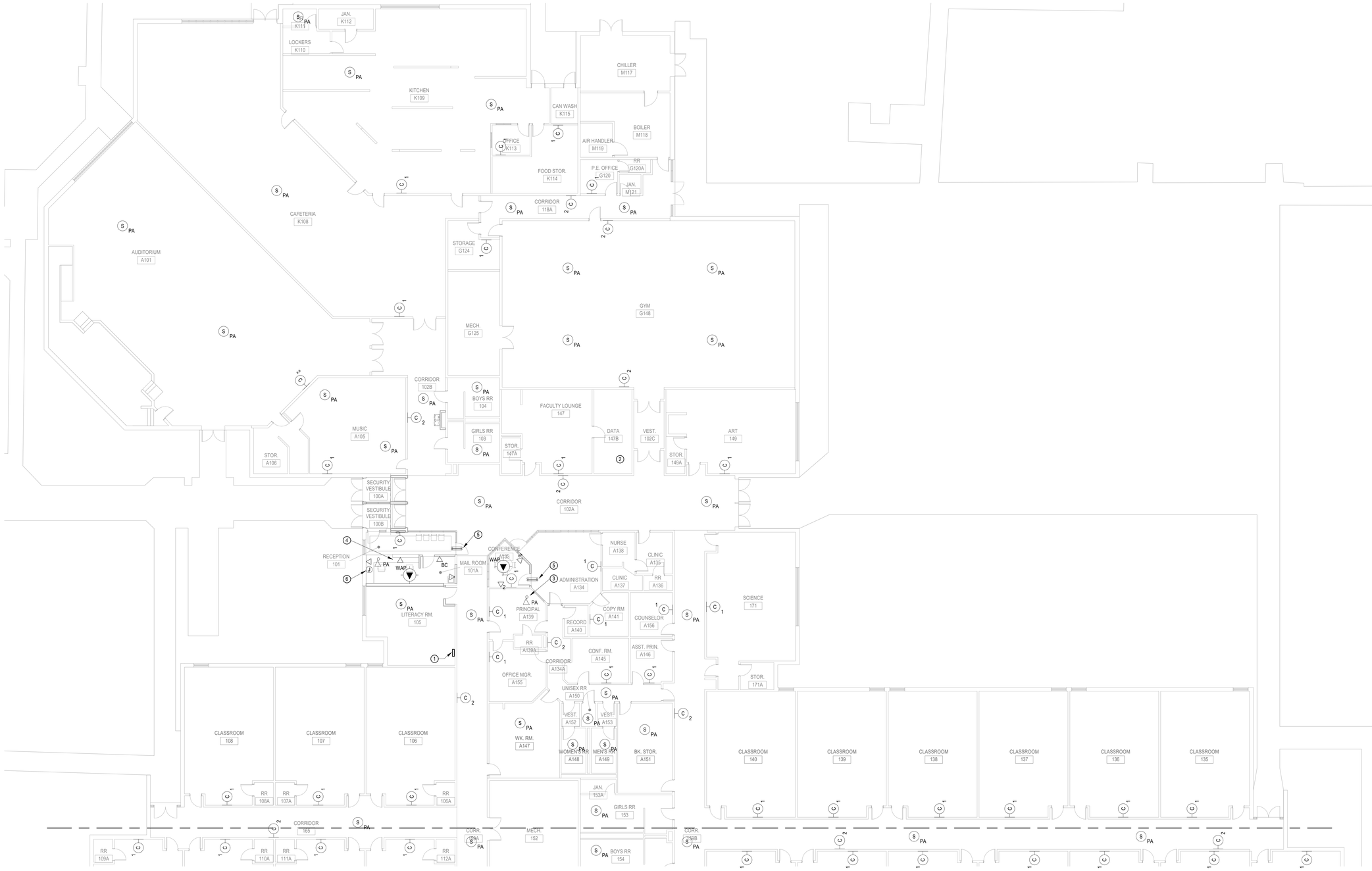
1	NEW LOCATION FOR RELOCATED WALL MOUNTED RACK.
2	EXISTING MDF ROOM.
3	PROVIDE PA TABLETOP MICROPHONE. VERIFY LOCATION WITH PRINCIPAL.
4	PROVIDE PA INTERACTIVE CONSOLE, TABLETOP MICROPHONE, AND DN-300Z INTEGRATED TO PA SYSTEM. VERIFY LOCATION WITH RECEPTION.
5	PROVIDE (2) 2" EMT CONDUIT THROUGH WALL OR CEILING WITH INSULATED BUSHINGS ON EACH END. GENERAL CONTRACTOR TO COORDINATE WITH TECHNOLOGY/PA AND SECURITY.
6	INSTALL J-BOX AT 18" A.F.F. AND RUN 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR PA.

PA AND CLOCK GENERAL NOTES:

1. PROVIDE A NEW PA SYSTEM AND WIRELESS MASTER CLOCK SYSTEM. SEE SPECIFICATIONS 275123 FOR ADDITIONAL INFORMATION.
2. PROVIDE EQUIPMENT RACK IN MDF ROOM, PROVIDE DESK MOUNTED RACK IN PRINCIPAL'S OFFICE OR ADMIN AREA.
3. PROVIDE SPEAKERS AND CALL BUTTONS AS DESCRIBED IN SPECIFICATIONS 275123.
4. PROVIDE A WIRELESS 24VAC CLOCK VLS20 AND BELL SYSTEM INTEGRATED INTO PA SYSTEM AS DESCRIBED IN SPECS. 275123. BATTERY OPERATED CLOCKS ARE NOT ACCEPTABLE.
5. PROVIDE EXTERIOR SPEAKER HORNS AS REQUIRED.
6. THE PA CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY ADDITIONAL ELECTRICAL OUTLETS REQUIRED FOR POWER SUPPLIES OR OTHER EQUIPMENT REQUIRED FOR THEIR SYSTEM DESIGN OR MODIFICATION.
7. PROVIDE WIRE GUARDS FOR CLOCK IN MULTI-PURPOSE ROOM/GYM.
8. COORDINATE FINAL LOCATION FOR DUAL EMERGENCY AND CHECK IN CALL BUTTON, VOICE CONTROL, AND DURESS BUTTON WITH ARCHITECT/OWNER.
9. PA AND CLOCK CONTRACTOR IS RESPONSIBLE FOR ALL CABLING REQUIRED FOR PA SYSTEM AND CABLING FOR CLOCK 24 VOLT POWER, INCLUDE LOW VOLTAGE 24 VOLT TRANSFORMERS AS REQUIRED.
10. ALL CABLING SHALL BE CONCEALED OR RUN IN CONDUIT. ALL CABLING SHALL BE EQUAL TO CAT. 6A OR BETTER.

TECHNOLOGY GENERAL NOTES:

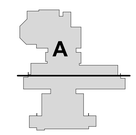
1. REFER TO SHEET T0.01 FOR LOW VOLTAGE SYSTEMS RESPONSIBILITY MATRIX.
2. CAT6A STUCTURED CABLING OUTLETS AND DEVICES SHALL BE ROUTED TO THE COORESPONDING MDF/IDF WITHIN EACH BOUNDARY
3. PROVIDE SLEEVES AND INTUMESCENT MATERIAL AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS AND ASSEMBLIES.
4. PROVIDE CONDUIT FOR CABLING DISTRIBUTION SPANNING ALL HARD CEILING GREATER THAN 5' IN LENGTH AND SOFFITS TO ACCESSIBLE CEILING (WHERE NECESSARY).
5. COORDINATE ALL SHORT PROJECTOR LOCATIONS AND SCREEN/MONITOR ELEVATIONS WITH ARCHITECT/OWNER.
6. PROVIDE A FULLY FUNCTIONAL SYSTEM TO THE OWNER BASED ON DESIGN CRITERIA.
7. PROVIDE PROPER BONDING AND GROUNDING TO ALL TELECOMMUNICATION ELEMENTS PER TIA-607-B.
8. ENSURE THAT ALL RACEWAYS FOR DATA AND SECURITY DEVICES ARE COORDINATED WITH ARCHITECT TO ENSURE NO RACEWAYS ARE VISIBLE IN OPEN SPACES.
9. RUN 1-1/4" CONDUIT FROM EACH DATA OUTLET IN WALL TO ABOVE ACCESSIBLE CEILING.
10. ALL DATA/TELE CABLING SHALL BE PLENUM-RATED CAT 6. ALL WIRELESS ACCESS POINT (WAP) CABLING SHALL BE PLENUM-RATED CAT 6A.
11. COORDINATE REMOVAL/REINSTALLATION OF EXISTING WAPs WITH DISD IT AT LEAST 2 WEEKS IN ADVANCE.



1 TECHNOLOGY PLAN 'A'
SCALE: 3/32" = 1'-0"

TRUE NORTH PLAN NORTH

KEY PLAN



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TECHNOLOGY PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

T1.01

PROJECT NO.: 2023208

PA AND CLOCK GENERAL NOTES:

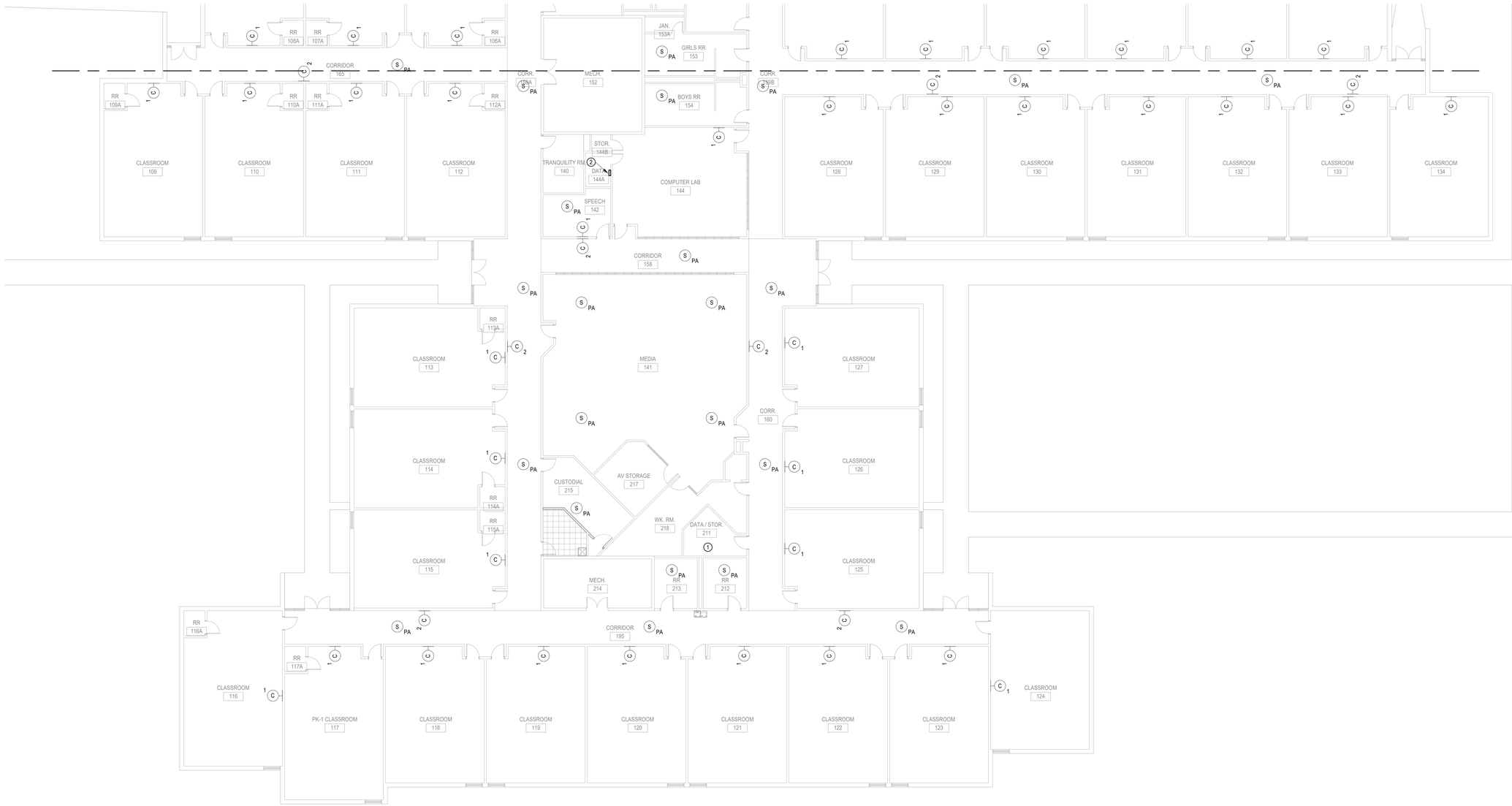
1. PROVIDE A NEW PA SYSTEM AND WIRELESS MASTER CLOCK SYSTEM. SEE SPECIFICATIONS 275123 FOR ADDITIONAL INFORMATION.
2. PROVIDE EQUIPMENT RACK IN MDF ROOM. PROVIDE DESK MOUNTED RACK IN PRINCIPAL'S OFFICE OR ADMIN AREA.
3. PROVIDE SPEAKERS AND CALL BUTTONS AS DESCRIBED IN SPECIFICATIONS 275123.
4. PROVIDE A WIRELESS 24VAC CLOCK VL520 AND BELL SYSTEM INTEGRATED INTO PA SYSTEM AS DESCRIBED IN SPECS. 275123. BATTERY OPERATED CLOCKS ARE NOT ACCEPTABLE.
5. PROVIDE EXTERIOR SPEAKER HORNS AS REQUIRED.
6. THE PA CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY ADDITIONAL ELECTRICAL OUTLETS REQUIRED FOR POWER SUPPLIES OR OTHER EQUIPMENT REQUIRED FOR THEIR SYSTEM DESIGN OR MODIFICATION.
7. PROVIDE WIRE GUARDS FOR CLOCK IN MULTI-PURPOSE ROOM/GYM.
8. COORDINATE FINAL LOCATION FOR DUAL EMERGENCY AND CHECK IN CALL BUTTON, VOICE CONTROL, AND DURESS BUTTON WITH ARCHITECT/OWNER.
9. PA AND CLOCK CONTRACTOR IS RESPONSIBLE FOR ALL CABLING REQUIRED FOR PA SYSTEM AND CABLING FOR CLOCK 24 VOLT POWER. INCLUDE LOW VOLTAGE 24 VOLT TRANSFORMERS AS REQUIRED.
10. ALL CABLING SHALL BE CONCEALED OR RUN IN CONDUIT. ALL CABLING SHALL BE EQUAL TO CAT. 6A OR BETTER.

TECHNOLOGY GENERAL NOTES:

1. REFER TO SHEET T0.01 FOR LOW VOLTAGE SYSTEMS RESPONSIBILITY MATRIX.
2. CAT6A STUCTURED CABLING OUTLETS AND DEVICES SHALL BE ROUTED TO THE COORESPONDING MDF/IDF WITHIN EACH BOUNDARY.
3. PROVIDE SLEEVES AND INTUMESCENT MATERIAL AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS AND ASSEMBLIES.
4. PROVIDE CONDUIT FOR CABLING DISTRIBUTION SPANNING ALL HARD CEILING GREATER THAN 5' IN LENGTH AND SOFFITS TO ACCESSIBLE CEILING (WHERE NECESSARY).
5. COORDINATE ALL SHORT PROJECTOR LOCATIONS AND SCREEN/MONITOR ELEVATIONS WITH ARCHITECT/OWNER.
6. PROVIDE A FULLY FUNCTIONAL SYSTEM TO THE OWNER BASED ON DESIGN CRITERIA.
7. PROVIDE PROPER BONDING AND GROUNDING TO ALL TELECOMMUNICATION ELEMENTS PER TIA-607-B.
8. ENSURE THAT ALL RACEWAYS FOR DATA AND SECURITY DEVICES ARE COORDINATED WITH ARCHITECT TO ENSURE NO RACEWAYS ARE VISIBLE IN OPEN SPACES.
9. RUN 1-1/4" CONDUIT FROM EACH DATA OUTLET IN WALL TO ABOVE ACCESSIBLE CEILING.
10. ALL DATA/TELE CABLING SHALL BE PLENUM-RATED CAT 6. ALL WIRELESS ACCESS POINT (WAP) CABLING SHALL BE PLENUM-RATED CAT 6A.
11. COORDINATE REMOVAL/REINSTALLATION OF EXISTING WAPs WITH DISD IT AT LEAST 2 WEEKS IN ADVANCE.

NOTES BY SYMBOL:

1	EXISTING IDF ROOM.
2	EXISTING IDF RACK MOUNTED ON WALL.

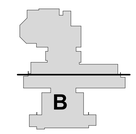


TRUE NORTH / PLAN NORTH

1 TECHNOLOGY PLAN 'B'

SCALE: 3/32" = 1'-0"

KEY PLAN



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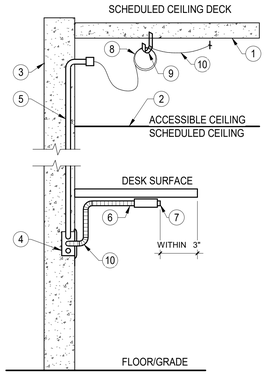
TECHNOLOGY PLAN 'B'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

T1.02

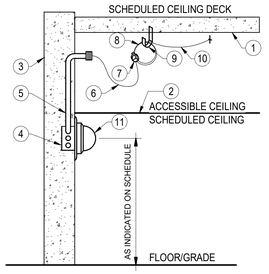
PROJECT NO.: 2023208



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).

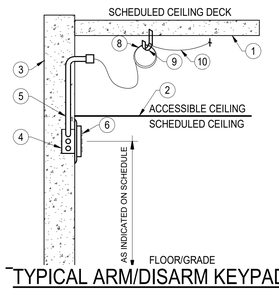
8 TYPICAL UNDER DESK DOOR RELEASE BUTTON
NOT TO SCALE



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).

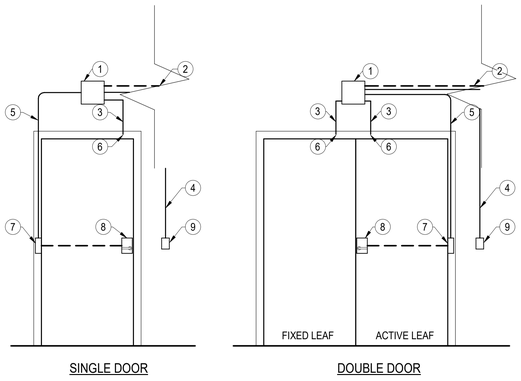
7 TYPICAL INTERIOR WALL MOUNTED SURVEILLANCE CAMERA
NOT TO SCALE



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 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).

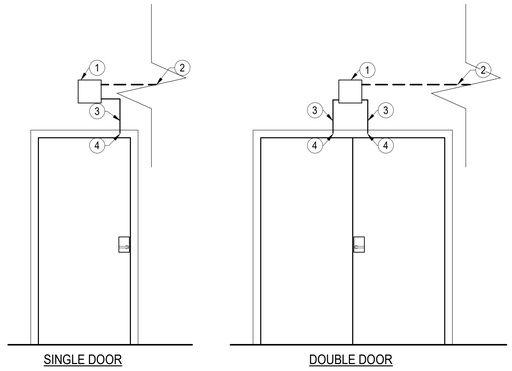
6 TYPICAL ARM/DISARM KEYPAD
NOT TO SCALE



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 NEARESTMDF/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).

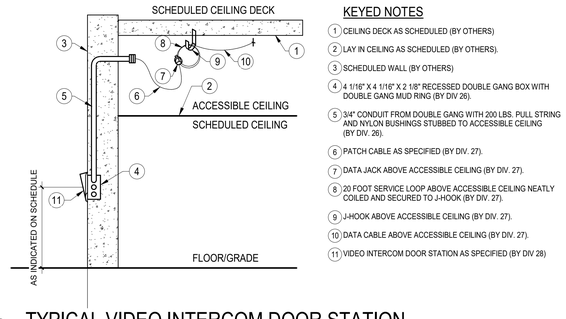
5 TYPICAL ACCESS CONTROLLED DOOR
NOT TO SCALE



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).

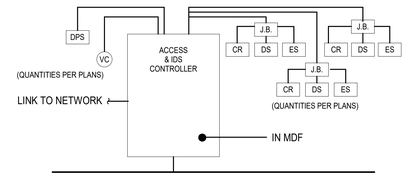
4 TYPICAL RECESSED DOOR POSITION SWITCHES
NOT TO SCALE



KEYED NOTES

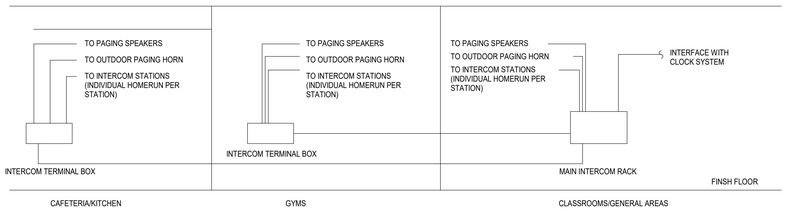
1. CEILING DECK AS SCHEDULED (BY OTHERS)
2. LAY IN CEILING AS SCHEDULED (BY OTHERS).
3. SCHEDULED WALL (BY OTHERS)
4. 4 1/16" X 4 1/16" X 2 1/8" RECESSED DOUBLE GANG BOX WITH DOUBLE GANG MUD RING (BY DIV 26).
5. 3/4" CONDUIT FROM DOUBLE GANG WITH 200 LBS. PULL STRING AND NYLON BUSHINGS STUBBED TO ACCESSIBLE 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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09/18/2024

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Registration No. 9102

ORG 273 DISD PLEASANT GROVE ELEMENTARY
1614 N St Augustine Rd, Dallas, TX 75217

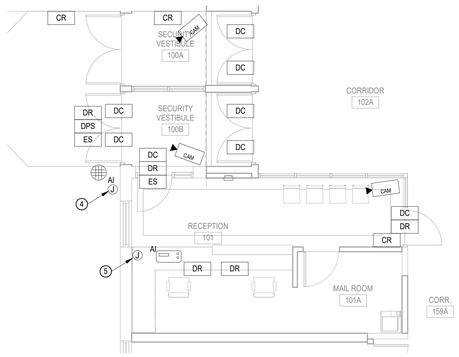
TECHNOLOGY AND SECURITY DETAILS

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

T3.01

PROJECT NO.: 2023208



2 SECURITY PLAN - RECEPTION

SCALE: 3/16" = 1'-0"

TECHNOLOGY GENERAL NOTES:

1. REFER TO SHEET T0.01 FOR LOW VOLTAGE SYSTEMS RESPONSIBILITY MATRIX.
2. CAT6A STUCTURED CABLING OUTLETS AND DEVICES SHALL BE ROUTED TO THE COORESPONDING MDF/IDF WITHIN EACH BOUNDARY.
3. PROVIDE SLEEVES AND INTUMESCENT MATERIAL AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS AND ASSEMBLIES.
4. PROVIDE CONDUIT FOR CABLING DISTRIBUTION SPANNING ALL HARD CEILING GREATER THAN 5' IN LENGTH AND SOFFITS TO ACCESSIBLE CEILING (WHERE NECESSARY).
5. COORDINATE ALL SHORT PROJECTOR LOCATIONS AND SCREEN/MONITOR ELEVATIONS WITH ARCHITECT/OWNER.
6. PROVIDE A FULLY FUNCTIONAL SYSTEM TO THE OWNER BASED ON DESIGN CRITERIA.
7. PROVIDE PROPER BONDING AND GROUNDING TO ALL TELECOMMUNICATION ELEMENTS PER TIA-607-B.
8. ENSURE THAT ALL RACEWAYS FOR DATA AND SECURITY DEVICES ARE COORDINATED WITH ARCHITECT TO ENSURE NO RACEWAYS ARE VISIBLE IN OPEN SPACES.
9. RUN 1-1/4" CONDUIT FROM EACH DATA OUTLET IN WALL TO ABOVE ACCESSIBLE CEILING.
10. ALL DATA/TELE CABLING SHALL BE PLENUM-RATED CAT 6. ALL WIRELESS ACCESS POINT (WAP) CABLING SHALL BE PLENUM-RATED CAT 6A.
11. COORDINATE REMOVAL/REINSTALLATION OF EXISTING WAPs WITH DISD IT AT LEAST 2 WEEKS IN ADVANCE.

NOTES BY SYMBOL:

1	NEW LOCATION FOR EXISTING SECURITY KEYPADS.
2	RELOCATE EXISTING MOTION DETECTOR SERVING ENTRANCE INTO SECURED VESTIBULE.
3	PROVIDE MOTION DETECTOR. CONNECT TO EXISTING ENTRANCE ZONE.
4	INSTALL WEATHERPROOF J-BOX AT 48" A.F.G. ON MULLION AND RUN 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR AIPHONE.
5	INSTALL J-BOX AT 18" A.F.F. AND RUN 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING.

TRUE NORTH PLAN NORTH

1 SECURITY PLAN 'A'

SCALE: 3/32" = 1'-0"

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Jacobs

ORG 273 DISD PLEASANT GROVE ELEMENTARY

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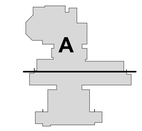
SECURITY PLAN 'A'

DRAWING RECORD

DATE	DESCRIPTION
09/03/24	100% SET
09/18/24	BID SET

KEY PLAN



TS1.01

PROJECT NO.: 2023208