

DALLAS ISD

BOND2020

OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

DALLAS INDEPENDENT SCHOOL DISTRICT

CSP #207195

	FOOD SERVICES	MEP	STRUCTURAL	ARCHITECTURAL	CIVIL	PROGRAM MGR.	DALLAS ISD BOARD	DALLAS ISD OFFIC.
	Food Service Design Services 2655 Villa Creek Dr. Dallas, TX 75234 972.245.5300 Lance Brooks	B&H Engineering 511 E John Carpenter Fwy. Suite 250 Irving, TX 75062 214.496.1670 James Barron	JQ Engineering 100 Glass St. Dallas, TX 75207 214.623.5881 Matthew Land	Alliance Architects, Inc. 1600 N. Collins Blvd. Suite 1000 Richardson, TX 75080 972.233.0400 Carlos DeSaracho	JQ Engineering 100 Glass St. Dallas, TX 75207 214.623.5828 Paul Grisdela	McKissack McKissack 9400 Central Expressway Suite 800 Dallas, TX 75231 214.336.5214 Jose Hernandez	Joe Carreón, District 8, President Ben Mackey, District 7, 1st Vice President Maxie Johnson, District 5, 2nd Vice President Camile D. White, District 4, Board Secretary Lance Currie, District 1 Sarah Weinberg, District 2 Dan Micciche, District 3 Joyce Foreman, District 6 Ed Turner, District 9	Dallas Independent School District 9400 N. Central Expy. Dallas, TX 75231 DISD Contract Manager Shajuana Davis

ALLIANCE ARCHITECTS

REGISTERED ARCHITECT · STATE OF TEXAS

11/16/25

ORG 109 DISD Blair Elementary

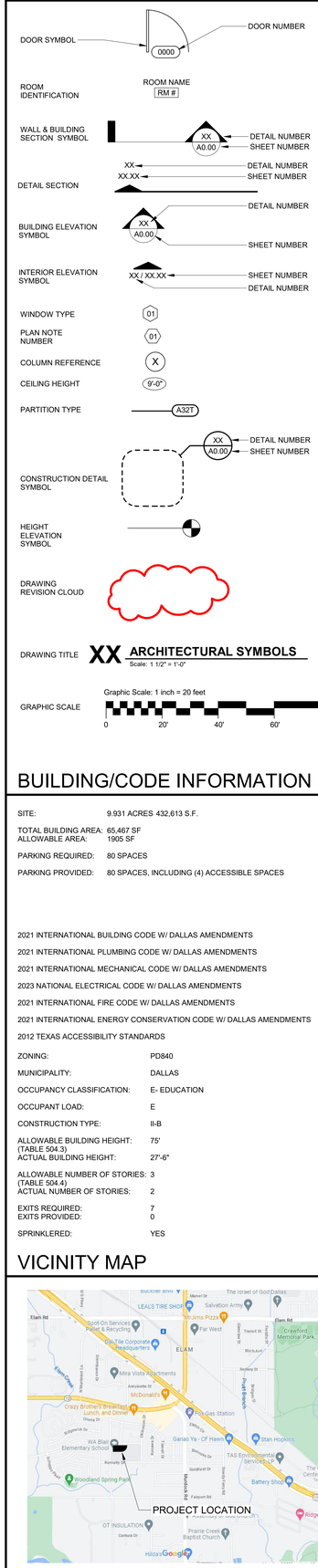
7720 Gayglen Drive, Dallas, TX 75217

100% CD - ISSUE FOR BID

PROJECT NO.: 2022200 DATE: 11/16/25

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ARCHITECTURAL SYMBOLS



BUILDING/CODE INFORMATION

SITE:	9.931 ACRES 432,613 S.F.
TOTAL BUILDING AREA:	65,467 SF
ALLOWABLE AREA:	1905 SF
PARKING REQUIRED:	80 SPACES
PARKING PROVIDED:	80 SPACES, INCLUDING (4) ACCESSIBLE SPACES

2021 INTERNATIONAL BUILDING CODE W/ DALLAS AMENDMENTS

2021 INTERNATIONAL PLUMBING CODE W/ DALLAS AMENDMENTS

2021 INTERNATIONAL MECHANICAL CODE W/ DALLAS AMENDMENTS

2023 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:	PD840
MUNICIPALITY:	DALLAS
OCCUPANCY CLASSIFICATION:	E- EDUCATION
OCCUPANT LOAD:	E
CONSTRUCTION TYPE:	II-B
ALLOWABLE BUILDING HEIGHT: (TABLE 504.3)	75'
ACTUAL BUILDING HEIGHT:	27'-6"
ALLOWABLE NUMBER OF STORIES: (TABLE 504.4)	3
ACTUAL NUMBER OF STORIES:	2
EXITS REQUIRED:	7
EXITS PROVIDED:	0
SPRINKLERED:	YES

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 NOTED OTHERWISE, 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 AT ALL EXTERIOR GLASS OPENINGS UNLESS NOTED OTHERWISE.
- PROVIDE PROJECT RECORD DOCUMENTS WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION.

DRAWING INDEX

GENERAL

NUMBER	SHEET NAME	95% CD	100% CD - BID SET	-	-	-	CURRENT SET
G0.01	COVER	07/02/25	11/16/25				11/16/25
G0.02	INDEX OF DRAWINGS	07/02/25	11/16/25				11/16/25
G0.03	LIFE SAFETY PLAN	07/02/25	11/16/25				11/16/25
G0.04	PARTITION TYPES	07/02/25	11/16/25				11/16/25
G0.05	TEXAS ACCESSIBILITY STANDARDS (TAS) AND MOUNTING HEIGHTS	07/02/25	11/16/25				11/16/25
PH.01	OVERALL FLOOR PLAN - PHASING PLAN	07/02/25	11/16/25				11/16/25
PH.02	OVERALL SITE PLAN - PHASING PLAN	07/02/25	11/16/25				11/16/25

CIVIL

NUMBER	SHEET NAME	95% CD	100% CD - BID SET	-	-	-	CURRENT SET
C1.00	EXISTING CONDITIONS PLAN	07/02/25	11/16/25				11/16/25
C2.00	DEMOLITION PLAN	07/02/25	11/16/25				11/16/25
C3.00	SITE PLAN	07/02/25	11/16/25				11/16/25
C5.00	FIRE PROTECTION PLAN	07/02/25	11/16/25				11/16/25
C6.00	PAVING PLAN	07/02/25	11/16/25				11/16/25
C7.00	GRADING PLAN	07/02/25	11/16/25				11/16/25
C8.00	PRE-DEVELOPED DRAINAGE AREA MAP	07/02/25	11/16/25				11/16/25
C9.00	POST-DEVELOPED DRAINAGE AREA MAP	07/02/25	11/16/25				11/16/25
C15.00	CIVIL DETAILS	07/02/25	11/16/25				11/16/25
C15.01	CIVIL DETAILS	07/02/25	11/16/25				11/16/25

ARCHITECTURAL

NUMBER	SHEET NAME	95% CD	100% CD - BID SET	-	-	-	CURRENT SET
A0.00	SITE PLAN - DEMOLITION	07/02/25	11/16/25				11/16/25
A0.01	OVERALL DEMOLITION PLAN	07/02/25	11/16/25				11/16/25
A0.02	ENLARGED DEMOLITION PLANS	07/02/25	11/16/25				11/16/25
A0.03	ENLARGED DEMOLITION RCP	07/02/25	11/16/25				11/16/25
A0.04	DEMOLITION - EXTERIOR BUILDING ELEVATIONS	07/02/25	11/16/25				11/16/25
A1.01	SITE PLAN	07/02/25	11/16/25				10/16/25
A1.02	SITE DETAILS	07/02/25	11/16/25				11/16/25
A1.03	DUMPSTER DETAILS	07/02/25	11/16/25				11/16/25
A2.01	OVERALL FLOOR PLAN	07/02/25	11/16/25				11/16/25
A2.02	OVERALL SECOND FLOOR	07/02/25	11/16/25				11/16/25
A2.03	ENLARGED FLOOR PLANS	07/02/25	11/16/25				11/16/25
A2.04	RESTROOM PLANS & INTERIOR ELEVATIONS	07/02/25	11/16/25				11/16/25
A2.05	ENLARGED DETAILS	07/02/25	11/16/25				11/16/25
A2.06	ROOF PLAN	07/02/25	11/16/25				11/16/25
A2.07	ROOF DETAILS	07/02/25	11/16/25				11/16/25
A3.01	OVERALL FINISH PLAN	07/02/25	11/16/25				11/16/25
A3.02	ENLARGED FINISH PLANS	07/02/25	11/16/25				11/16/25
A3.03	INTERIOR ELEVATIONS & DETAILS	07/02/25	11/16/25				11/16/25
A3.04	MILLWORK DETAILS & ELEVATIONS	07/02/25	11/16/25				11/16/25
A4.01	OVERALL REFLECTED CEILING PLAN	07/02/25	11/16/25				11/16/25
A4.02	ENLARGED REFLECTED CEILING PLANS	07/02/25	11/16/25				11/16/25
A5.01	EXTERIOR BUILDING ELEVATIONS	07/02/25	11/16/25				11/16/25
A6.01	DOOR TYPES, AND DOOR & WINDOW SCHEDULES	07/02/25	11/16/25				11/16/25
A6.02	GLAZING DETAILS	07/02/25	11/16/25				11/16/25
A7.01	BUILDING SECTIONS	07/02/25	11/16/25				11/16/25
A7.02	WALL SECTIONS	07/02/25	11/16/25				11/16/25
A7.03	SECTION DETAILS	07/02/25	11/16/25				11/16/25
A9.01	OVERALL FURNITURE PLAN	07/02/25	11/16/25				11/16/25
A9.02	ENLARGED FURNITURE PLAN	07/02/25	11/16/25				11/16/25

STRUCTURAL

NUMBER	SHEET NAME	95% CD	100% CD - BID SET	-	-	-	CURRENT SET
S1.01	STRUCTURAL NOTES	07/02/25	11/16/25				11/16/25
S1.02	STRUCTURAL NOTES, SYMBOLS LEGEND & ABBREVIATIONS	07/02/25	11/16/25				11/16/25
S1.03	SPECIAL INSPECTIONS	07/02/25	11/16/25				11/16/25
S1.04	SPECIAL INSPECTIONS	07/02/25	11/16/25				11/16/25
SD2.01	KITCHEN FOUNDATION & ROOF FRAMING DEMOLITION PLANS	07/02/25	11/16/25				11/16/25
SD2.02	KITCHEN DEMOLITION DETAILS & PHOTOGRAPHS	07/02/25	11/16/25				11/16/25
S2.00	OVERALL FOUNDATION PLAN	07/02/25	11/16/25				11/16/25
S2.01	KITCHEN FOUNDATION PLAN	07/02/25	11/16/25				11/16/25
S2.02	OVERALL ROOF FRAMING PLAN	07/02/25	11/16/25				11/16/25
S2.03	KITCHEN ROOF FRAMING PLAN	07/02/25	11/16/25				11/16/25
S3.01	TYPICAL CONCRETE SECTIONS & DETAILS	07/02/25	11/16/25				11/16/25
S3.02	TYPICAL CONCRETE SECTIONS & DETAILS	07/02/25	11/16/25				11/16/25
S3.03	TYPICAL CONCRETE SECTIONS & DETAILS	07/02/25	11/16/25				11/16/25
S4.01	TYPICAL MASONRY DETAILS	07/02/25	11/16/25				11/16/25
S5.01	TYPICAL STEEL SECTIONS & DETAILS	07/02/25	11/16/25				11/16/25
S5.02	TYPICAL STEEL SECTIONS & DETAILS	07/02/25	11/16/25				11/16/25
S5.03	TYPICAL STEEL SECTIONS & DETAILS	07/02/25	11/16/25				11/16/25
S6.01	PHOTOGRAPHS - EXISTING CLASSROOM		11/16/25				11/16/25

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 STANDARDS
ACOUST.	ACOUSTICAL	CONC.	CONCRETE	ELEC.	ELECTRICAL	GALV.	GALVANIZED	MEP., MEP	MECHANICAL, ELECTRICAL AND PLUMBING	R.T.U.	ROOF-TOP UNIT		
ADA	AMERICANS WITH DISABILITIES ACT	CONST.	CONSTRUCTION	ELECT.	ELECTRICAL	GYP. BD.	GYPSUM BOARD	MFR.	MANUFACTURER	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				

DRAWING INDEX

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MECHANICAL

NUMBER	SHEET NAME	95% CD	100% CD - BID SET	-	-	-	CURRENT SET
M0.01	MECHANICAL COVER SHEET	07/02/25	11/16/25				11/16/25
M1.01	HVAC FIRST FLOOR DEMOLITION PLAN AREA 'A'	07/02/25	11/16/25				11/16/25
M1.02	HVAC FIRST FLOOR DEMOLITION PLAN AREA 'B'	07/02/25	11/16/25				11/16/25
M1.03	HVAC SECOND FLOOR DEMOLITION PLAN AREA 'A'	07/02/25	11/16/25				11/16/25
M1.04	HVAC SECOND FLOOR DEMOLITION PLAN AREA 'B'	07/02/25	11/16/25				11/16/25
M1.05	HVAC ROOF DEMOLITION PLAN AREA 'A'	07/02/25	11/16/25				11/16/25
M1.06	HVAC ROOF DEMOLITION PLAN AREA 'B'	07/02/25	11/16/25				11/16/25
M2.01	HVAC FIRST FLOOR PLAN 'AREA A'	07/02/25	11/16/25				11/16/25
M2.02	HVAC FIRST FLOOR PLAN 'AREA B'	07/02/25	11/16/25				11/16/25
M2.03	HVAC SECOND FLOOR PLAN 'AREA A'	07/02/25	11/16/25				11/16/25
M2.04	HVAC SECOND FLOOR PLAN 'AREA B'	07/02/25	11/16/25				11/16/25
M2.05	HVAC ROOF PLAN 'AREA A'	07/02/25	11/16/25				11/16/25
M2.06	HVAC ROOF PLAN 'AREA B'	07/02/25	11/16/25				11/16/25
M3.01	MECHANICAL DETAILS	07/02/25	11/16/25				11/16/25
M3.02	MECHANICAL DETAILS	07/02/25	11/16/25				11/16/25
M3.03	MECHANICAL DETAILS	07/02/25	11/16/25				11/16/25
M3.04	MECHANICAL DETAILS	07/02/25	11/16/25				11/16/25
M4.01	MECHANICAL EQUIPMENT SCHEDULES	07/02/25	11/16/25				11/16/25
M4.02	MECHANICAL EQUIPMENT SCHEDULES	07/02/25	11/16/25				11/16/25
M6.01	MECHANICAL CONTROLS COVER SHEET	07/02/25	11/16/25				11/16/25
M6.02	MECHANICAL CONTROL DIAGRAMS	07/02/25	11/16/25				11/16/25
M6.03	MECHANICAL CONTROL DIAGRAMS	07/02/25	11/16/25				11/16/25
M6.04	MECHANICAL CONTROL DIAGRAMS	07/02/25	11/16/25				11/16/25
M6.05	MECHANICAL CONTROL DIAGRAMS	07/02/25	11/16/25				11/16/25

PLUMBING

NUMBER	SHEET NAME	95% CD	100% CD - BID SET	-	-	-	CURRENT SET
P0.01	PLUMBING COVER SHEET	07/02/25	11/16/25				11/16/25
P1.01	PLUMBING FIRST FLOOR DEMOLITION PLAN 'AREA A'	07/02/25	11/16/25				11/16/25
P1.02	PLUMBING FIRST FLOOR DEMOLITION PLAN AREA 'B'	07/02/25	11/16/25				11/16/25
P1.03	PLUMBING ROOF DEMOLITION PLAN 'AREA A'	07/02/25	11/16/25				11/16/25
P1.04	PLUMBING ROOF DEMOLITION PLAN 'AREA B'	07/02/25	11/16/25				11/16/25
P2.01	SANITARY & VENT FIRST FLOOR PLAN 'AREA A'		11/16/25				11/16/25
P2.02	SANITARY & VENT FIRST FLOOR PLAN 'AREA B'	07/02/25	11/16/25				11/16/25
P2.11	DOMESTIC WATER & GAS PLAN 'AREA A'	07/02/25	11/16/25				11/16/25
P2.12	DOMESTIC WATER & GAS PLAN 'AREA B'	07/02/25	11/16/25				11/16/25
P2.21	PLUMBING ROOF PLAN 'AREA A'	07/02/25	11/16/25				11/16/25
P2.22	PLUMBING ROOF PLAN 'AREA B'	07/02/25	11/16/25				11/16/25
P3.01	PLUMBING DETAILS	07/02/25	11/16/25				11/16/25
P3.02	PLUMBING DETAILS	07/02/25	11/16/25				11/16/25
P3.03	PLUMBING DETAILS	07/02/25	11/16/25				11/16/25
P4.01	PLUMBING SCHEDULES	07/02/25	11/16/25				11/16/25
FP1.01	FIRE PROTECTION FIRST FLOOR PLAN	07/02/25	11/16/25				11/16/25

ELECTRICAL

NUMBER	SHEET NAME	95% CD	100% CD - BID SET	-	-	-	CURRENT SET
E0.01	ELECTRICAL COVER SHEET	07/02/25	11/16/25				11/16/25
E0.02	ELECTRICAL FIRST FLOOR DEMOLITION PLAN	07/02/25	11/16/25				11/16/25
E0.03	ELECTRICAL DEMOLITION (HVAC) FIRST FLOOR PLAN	07/02/25	11/16/25				11/16/25
E0.04	ELECTRICAL DEMOLITION (HVAC) SECOND FLOOR PLAN	07/02/25	11/16/25				11/16/25
E0.05	ELECTRICAL DEMOLITION (HVAC) ROOF PLAN	07/02/25	11/16/25				11/16/25
E0.10	SITE DEMOLITION PLAN	07/02/25	11/16/25				11/16/25
E1.00	ELECTRICAL SITE PLAN	07/02/25	11/16/25				11/16/25
E1.01	FIRST FLOOR LIGHTING PLAN - AREA A	07/02/25	11/16/25				11/16/25
E1.02	FIRST FLOOR LIGHTING PLAN - AREA B	07/02/25	11/16/25				11/16/25
E2.01	FIRST FLOOR POWER PLAN - AREA A	07/02/25	11/16/25				11/16/25
E2.02	FIRST FLOOR POWER PL

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EXIT PATH LENGTH OF TRAVEL	
EXIT ROUTE A	57'
EXIT ROUTE B	65'
EXIT ROUTE C	59'
EXIT ROUTE D	25'
EXIT ROUTE E	91'

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

EXIT DISCHARGE

XX — TRAVEL DISTANCE

IDENTIFIER

ROOM NUMBER

ROOM NAME

FLOOR AREA IN S.F.

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

OCCUPANCY CLASSIFICATION (FUNCTION OF SPACE)

OCCUPANCY LOAD OF ROOM

REQUIRED EXIT WIDTH

AGGREGATE OCCUPANT LOAD PER EXIT

ALLOWABLE OCCUPANT LOAD BASED ON ACTUAL WIDTH

ACTUAL EXIT WIDTH

DIRECTIONAL ARROWS

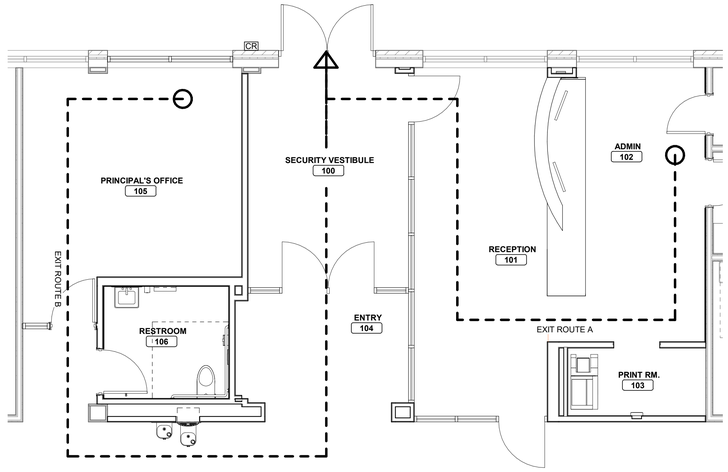
OCCUPANCY FLOW

OCCUPANCY CLASSIFICATION TYPES:
- A: Assembly
- AC: Assembly (Concentrated)
- AU: Assembly (Unconcentrated)
- B: Business

36" = 33" OF USABLE WIDTH / .20 = 165 PEOPLE

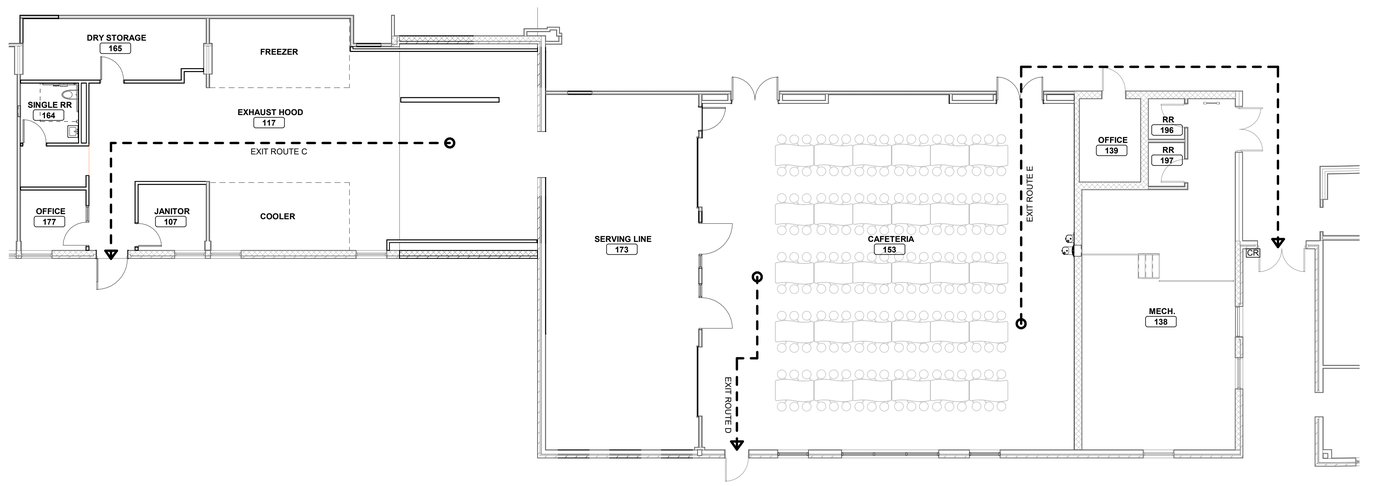
42" = 39" OF USABLE WIDTH / 0.20 = 195 PEOPLE

72" = 68" OF USABLE WIDTH / 0.20 = 340 PEOPLE



PLAN NORTH

2 LIFE SAFETY PLAN - VESTIBULE
Scale: 1/4" = 1'-0"



PLAN NORTH

1 LIFE SAFETY PLAN - CAFETERIA & KITCHEN
Scale: 1/8" = 1'-0"

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

11/16/25

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DALLAS INDEPENDENT SCHOOL DISTRICT

McKISSACK McKISSACK

ORG 109 DISD Blair Elementary

7720 Gaylen Drive, Dallas, TX 75217

LIFE SAFETY PLAN

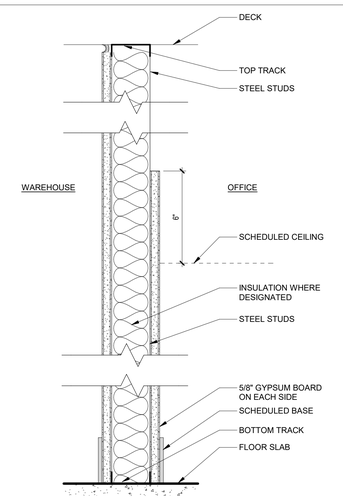
DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

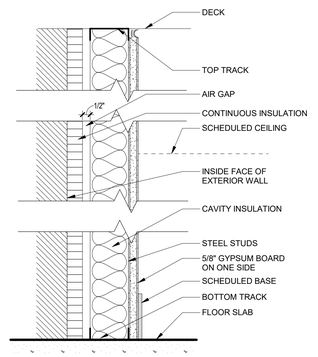
G0.03

PROJECT NO.: 2022200

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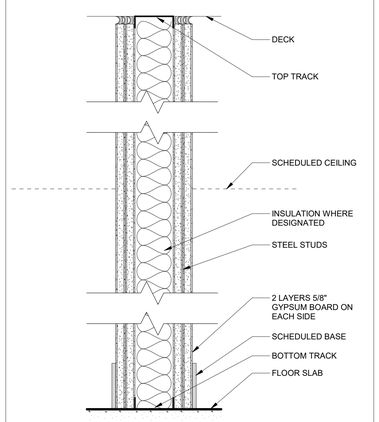


TYPE V



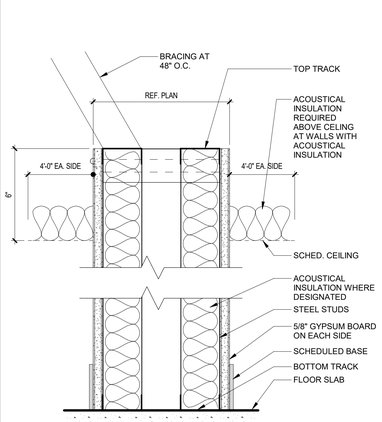
TYPE P

INSULATION TYPE:	R-VALUE:	TYPE:
CONTINUOUS INSULATION	___	___
CAVITY INSULATION	___	BATT

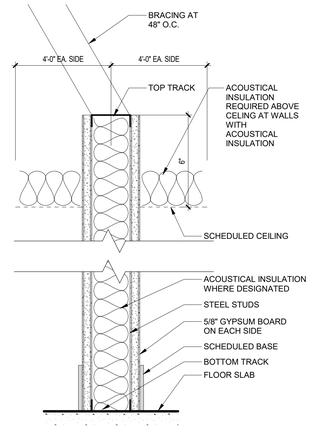


TYPE L

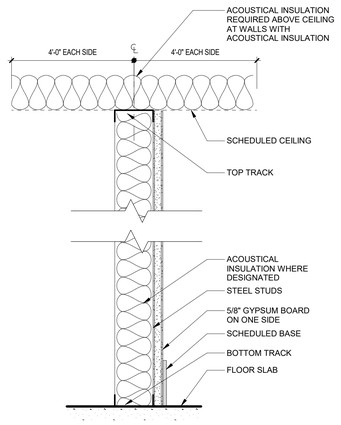
INSULATION TYPE:	R-VALUE:	TYPE:
CAVITY INSULATION	???	BATT
FIRE RATING	UL LISTING	
NON RATED	N/A	
2 HOUR	U411	



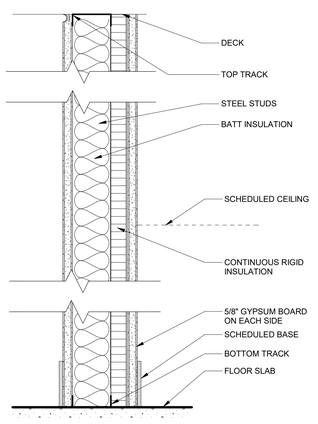
TYPE H



TYPE B

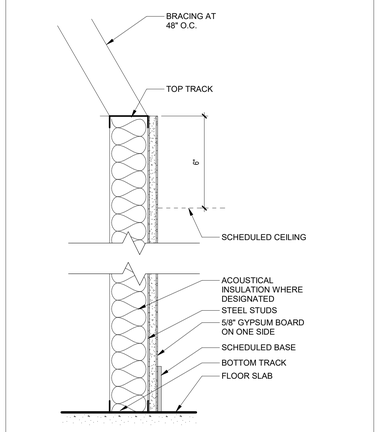


TYPE N

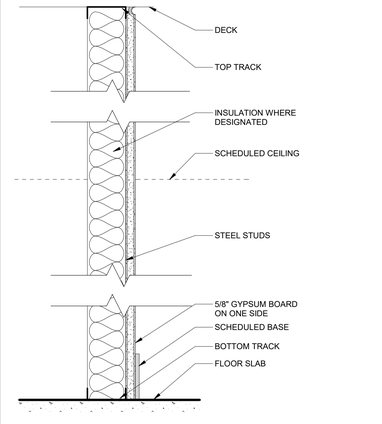


TYPE K

INSULATION TYPE:	R-VALUE:	TYPE:
CONTINUOUS INSULATION	???	RIGID
CAVITY INSULATION	???	BATT

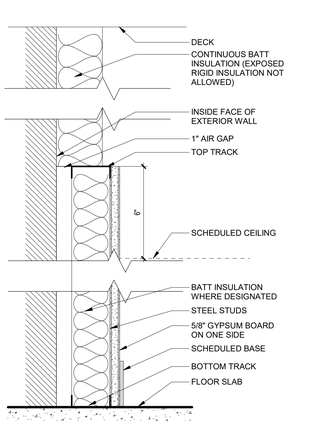


TYPE G



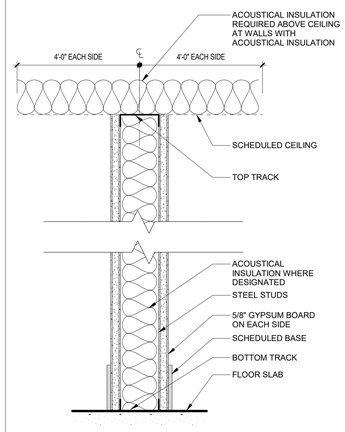
TYPE F

INSULATION TYPE:	R-VALUE:	TYPE:
CAVITY INSULATION	???	BATT

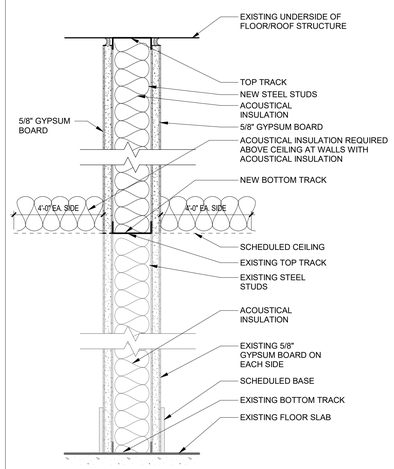


TYPE D

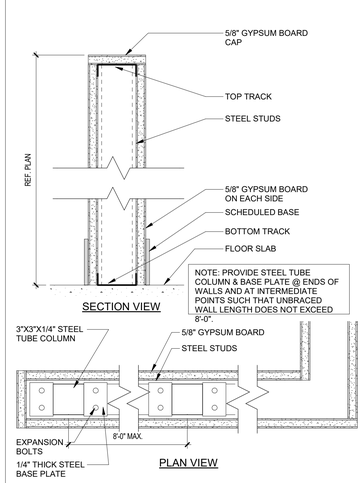
INSULATION TYPE:	R-VALUE:	TYPE:
CONTINUOUS INSULATION	???	???
CAVITY INSULATION	???	BATT



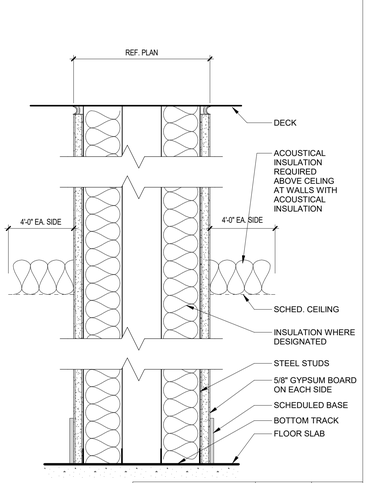
TYPE A



TYPE R

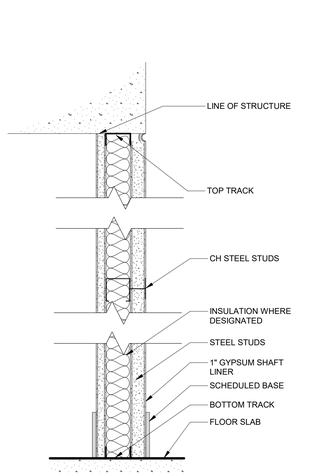


TYPE M



TYPE J

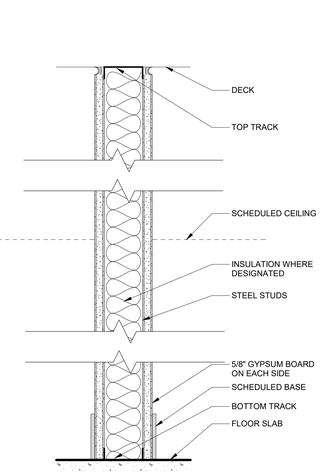
INSULATION TYPE:	R-VALUE:	TYPE:
CAVITY INSULATION	???	BATT
FIRE RATING	UL LISTING	
NON RATED	N/A	
1 HOUR	U420	



NOTE: FOR A 2 HOUR PARTITION (U497) ADD A 2ND LAYER OF 5/8" GYP. BD.

TYPE E

FIRE RATING	UL LISTING
NON RATED	N/A
1 HOUR	U499



TYPE C

INSULATION TYPE:	R-VALUE:	TYPE:
CAVITY INSULATION	???	BATT
FIRE RATING	UL LISTING	
NON RATED	N/A	
1 HOUR	U465 or U419	

PARTITION TYPES

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

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

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

PARTITION TYPES

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11/16/25

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DALLAS INDEPENDENT SCHOOL DISTRICT

McKISSACK McKISSACK

ORG 109 DISD Blair Elementary

7720 Gaylen Drive, Dallas, TX 75217

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

G0.04

PROJECT NO.: 2022200

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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.

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, 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.



Figure 302.2 Carpet Pile Height

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.

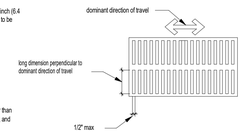


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

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 305.3 Clear Floor or Ground Space

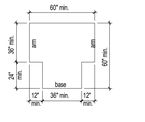


Figure 304.3.2 T-Shaped Turning Space

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).

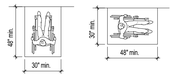


Figure 305.5 Position of Clear Floor or Ground Space



Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

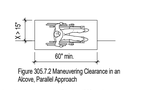


Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

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.

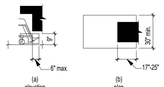


Figure 306.2 Toe Clearance

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.

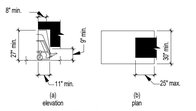


Figure 306.3 Knee Clearance

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.

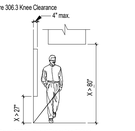


Figure 307.2 Limits of Protruding Objects

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.

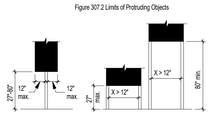


Figure 307.3 Post-Mounted Protruding Objects

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.

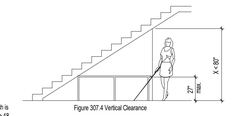


Figure 307.4 Vertical Clearance

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)

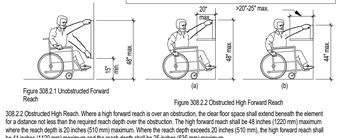


Figure 308.2.1 Unobstructed Forward Reach

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.

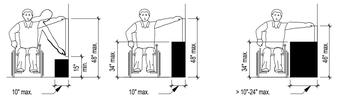


Figure 308.3.1 Unobstructed Side Reach

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.

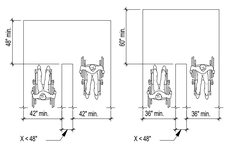


Figure 403.5.2 Clear Width at Turn

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 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)

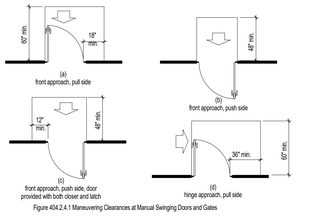


Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

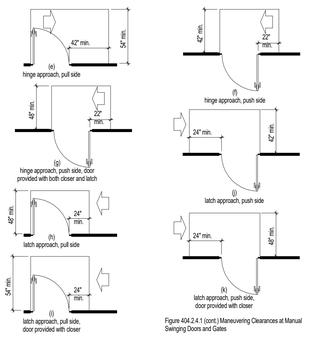


Figure 404.2.4.1 (cont.) Maneuvering Clearances at Manual Swinging Doors and Gates

404.2.4.2 Doorways without Doors or Gates, Sliding Doors, and Folding Doors. Doorway 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.

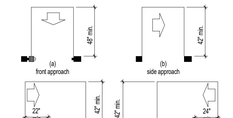


Figure 404.2.4.2 Maneuvering Clearances at Doorways without Doors, Sliding Doors, Gates, and Folding Doors

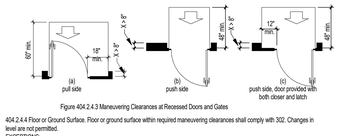


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

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.

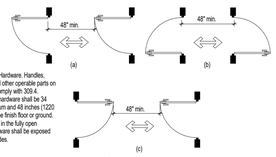


Figure 404.2.6 Doors in Series and Gates in Series

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.

404.2.8 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, gate, 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.

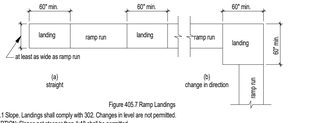


Figure 405.7 Ramp Landings

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.
EXCEPTION: 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 12 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

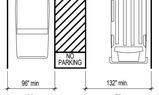


Figure 405.9.2 Curb or Barrier Edge Protection

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.

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 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

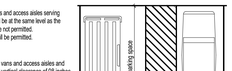


Figure 406.3 Sides of Curb Ramps

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.

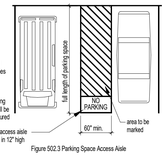


Figure 502.3 Parking Space Access Aisle

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.

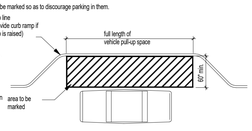


Figure 503.3 Passenger Loading Zone Access Aisle

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.



Figure 505.4 Handrail Height

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

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

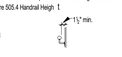


Figure 505.5 Handrail Clearance



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.

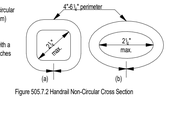


Figure 505.7.2 Handrail Non-Circular Cross Section

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.

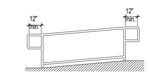


Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

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.

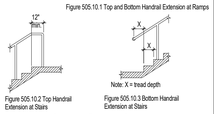


Figure 505.10.2 Top Handrail Extension at Stairs

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 access

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IMPORTANT NOTE:

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

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

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

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

5. GC RESPONSIBLE FOR COST OF MOBILIZATION AND OFFSITE PARKING IF RELOCATION IS REQUIRED AFTER THE ORIGINAL LOCATION WAS AGREED WITH THE CONTRACTOR AND OWNER.

6. GC RESPONSIBLE FOR COORDINATION WITH ABATEMENT CONTRACTOR.

WORK AREA PLAN NOTES

WORK AREA "A"

OCCUPANTS WILL BE RELOCATED FOR DURATION. WORK IN THIS AREA MUST BE COMPLETED BEFORE "B" AND "C" CAN START. ANY MECHANICAL, ELECTRICAL, PLUMBING, LIFE SAFETY, & SECURITY WORK IN THIS AREA MUST RESPECT FUNCTIONALITY OF REMAINDER OF FACILITY. 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 "A". GC TO PROVIDE, IN COORDINATION WITH FACILITY STAFF, DIRECTIONAL SIGNAGE TO SUPPORT CAMPUS OPERATIONS AND WAYFINDING. GC TO PROVIDE AND INSTALL FULL HEIGHT WALL BARRIER BETWEEN CONSTRUCTION SCOPE OF WORK AND PUBLIC. PROVIDE DOOR ENCLOSURE FOR ACCESSIBILITY TO THE INTERIOR CONSTRUCTION SITE. GENERAL CONTRACTOR TO COORDINATE WITH OWNER AND FACILITY STAFF ON TEMPORARY RELOCATION OF EXISTING PA SYSTEM. PA SYSTEM NEEDS TO BE FULLY FUNCTIONAL AND READY FOR USE BEFORE WORK AREA A STARTS.

ORDER OF CONSTRUCTION:

A.1 - COORDINATE WITH SCHOOL PRINCIPAL ON NEW RELOCATED OFFICE IF REQUIRED.

A.2 - EXISTING ADMIN STAFF TO RELOCATE TO EXISTING PRINCIPAL OFFICE. PROVIDE FULL HEIGHT TEMPORARY SEPERATION WALL FROM THE TEMPORARY MAIN ENTRANCE FROM THE REST OF THE SCHOOL. ONCE WORK AREA "A" IS COMPLETE, PRINICIPAL EXISTING OFFICE CAN CONVERT BACK TO ORGINAL CLASSROOM.

A.3 - INSTALL NEW TEMPORAY DOOR/ FRAME AND HARDWARE FOR SCHOOL OCCUPATION. PROVIDE TEMPORARY PUSH BUTTON RELEASE AND CARD READER ACCESS.

A.4 - CONSIDER STARTING CONSTRUCTION IN THE SUMMER, THIS INCLUDES DEMO THROUGHOUT, TEMPORARY LIGHT INSTALLATION, TEMPORARY SERVICE LINE INSTALLED, CLEANED AND PREPPED (PER CODE) FOR OCCUPATION FOR NEW SCHOOL YEAR.

ORDER OF CONSTRUCTION:

A.1 - COORDINATE WITH SCHOOL PRINCIPAL ON NEW RELOCATED OFFICE IF REQUIRED.

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A.3 - INSTALL NEW TEMPORAY DOOR/ FRAME AND HARDWARE FOR SCHOOL OCCUPATION. PROVIDE TEMPORARY PUSH BUTTON RELEASE AND CARD READER ACCESS.

A.4 - CONSIDER STARTING CONSTRUCTION IN THE SUMMER OF 2026, THIS INCLUDES DEMO THROUGHOUT, TEMPORARY LIGHT INSTALLATION, TEMPORARY SERVICE LINE INSTALLED, CLEANED AND PREPPED (PER CODE) FOR OCCUPATION FOR NEW SCHOOL YEAR.

WORK AREA "B"

OCCUPANTS WILL BE RELOCATED FOR DURATION. WORK IN THIS AREA CANNOT BE SCHEDULED AT SAME TIME AS WORK AREA "A". WORK AREA "B" CAN NOT START UNTIL WORK AREA "A" IS COMPLETED. ANY MECHANICAL, 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 KITCHEN RENOVATION IS COMPLETE AND RETURNED TO SERVICE.

ORDER OF CONSTRUCTION:

B.1 - RELOCATE SCHOOL STAFF TO NEW RENOVATED SPACE IN WORK AREA "A".

B.2 - CONSIDER STARTING CONSTRUCTION, THIS INCLUDES DEMO THROUGHOUT. TEMPORARY LIGHT INSTALLATION, TEMPORARY SERVICE LINE INSTALLED, CLEANED AND PREPPED (PER CODE) FOR OCCUPATION FOR NEW SCHOOL YEAR.

B.3 - TEMPORARY KITCHEN SERVICE LINE IS OPEN FOR SERVICE AFTER COMPLETION OF CONSTRUCTION.

WORK AREA "C"

SCOPE THIS AREA MAY BE PHASED IN SEQUENCE WITH WORK AREA "B". DUE TO THE EFFECT THE WORK ON THE FUNCTIONALITY OF THE FACILITY, CONSIDER PERFORMING THIS WORK DURING THE SUMMER OF 2026 OR 2027. DISCUSS CONSTRUCTION START DATE WITH OWNER. TEMPORARY ELECTRICAL & PLUMBING SERVICES, AND SERVING LINE EQUIPMENT WILL BE SET UP FOR KITCHEN STAFF USE IN THE CAFETERIA FOR DURATION OF KITCHEN RENOVATION. ANY MECHANICAL, 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 KITCHEN RENOVATION IS COMPLETE AND RETURNED TO SERVICE
PLEASE NOTE: FOR TEMPORARY SERVING LINE GC TO PROVIDE & REMOVE TEMPORARY SERVICES (ELECTRICAL, PLUMBING) GC TO PROVIDE EQUIPMENT RELOCATION SERVICES AND COORDINATION WITH FACILITY STAFF AND FOOD SERVICE DEPARTMENT.

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.

GENERAL NOTES FOR CONSTRUCTION PHASING

SPECIAL NOTES TO THE GENERAL CONTRACTOR:

- NO WORK WILL BE ALLOWED TO BE PERFORMED DURING TESTING WEEKS.
- WORK ON THE KITCHEN AND CAFTERIA TO BE PERFORMED DURING SUMMER.
- PLEASE CONSULT WITH PROGRAM MANAGER AND SCHOOL STAFF FOR SPECIFIC TESTING DATES. ALSO, REFER TO DIV 1 FOR TESTING DATES ALLOTED BY DISD.
- COORDINATE ALL WORK AND SCHOOL ACCESS WITH PRINCIPAL (OR AGREED TO SCHOOL CONTACT PERSON) AND PROGRAM MANAGER.
- NO OVERHEAD OR ROOF WORK TO BE PERFORMED OVER OCCUPIED AREAS OR ROOMS.
- THIS LIST IS NOT A COMPLETE AND FULL DESCRIPTION OF THE SCOPE OF WORK TO BE PERFORMED. PLEASE REFER TO THE CONSTRUCTION DOCUMENTS FOR THE FULL SCOPE OF WORK DESCRIPTION.
- NO TRENCHING OR EXCAVATION ALLOWED DURING SCHOOL HOURS.
- REFER TO PROJECT MANUAL, DIVISION 01, FOR ADDITIONAL REQUIREMENTS.
- IF SCOPE OF WORK INCLUDES WORK ASSOCIATED WITH THE FIRE SPRINKLER , FIRE ALARM AND/OR SECURITY SYSTEMS -EXISTING SYSTEM IS TO BE MAINTAINED AND OPERATIONAL UNTIL NEW SYSTEM IS FULLY OPERATIONAL, TESTED AND ACCEPTED.
- GENERAL CONTRACTOR IS TO AUDIT ALL EXISTING SYSTEMS BEFORE THE WORK IS STARTED TO VERIFY WORKING AND/OR NON-WORKING COMPONENTS. THE SYSTEMS INCLUDED ARE FIRE SPRINKLER, 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.
- GC TO INCLUDE ALL COST RELATED TO SAFTEY IN THE CONSTRUCTION COST, NOT A SEPERATE BUDGET OR ADD SERVICE. FOR EXAMPLE, RELOCATING FENCING, RELOCATING PARITIONS, HARD BARRIERS, FENCING WITH SCREENING, ETC..)
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- THE GC TO INCLUDE ALL SPECIAL PROJECT ASSIGNMENTS IN YOUR SCHEDULE (PRELIFTS, PREDIGS, PREUTILITY SHUTDOWNS, ETC)
- THE GC SUBMITTALS ARE DRIVEN TO CONCLUSION WITHIN 120 DAYS FROM NTP.
- THE COOLING SYSTEM IS WORKED ON IN THE WINTER AND THE HEATING SYSTEM IS WORKED ON IN THE SUMMER.THE GC WILL NEED TO PLAN ALL MAJOR LIFTING ACTIVITIES (I.E. AHU, RTU, CHILLER, BOILER REPLACEMENTS) DURING THE WEEKENDS, SUMMER BEAK, WINTER BREAK, SPRING BREAK, AND 3 DAY HOLIDAYS.
- ALL CONSTRUCTION TO BE PHASED BY WING. GC TO COORDINATE WITH ARCHITECT, PROGRAM MANAGER, DALLAS ISD PM AND SCHOOL PERSONEL.
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SCHOOL AND WORKING HOURS:

- NORMAL SCHOOL/CLASSROOM HOURS, PLEASE REFER TO DIV. 01
- NORMAL AFTER SCHOOL WORKING HOURS (IF ALLOWED) REFER TO DIV. 01 FOR MORE DETAILED INFORMATION
- NON-SCHOOL WORKING HOURS (WEEKENDS, HOLIDAYS, BREAKS, AND SUMMER) TO BE 7:00AM TO 10:00PM (CONFIRM WITH CITY OF DALLAS IF WORKING HOURS CAN BE EXTENDED TO 12:00AM OR BEYOND).

PLEASE NOTE THAT THE FINAL SCHEDULE AND OR PHASING SCHEDULES ALONG WITH AREA OF WORK ASSOCIATED WITH PROPOSED SCHEDULES ARE TO BE COORDINATED BY THE GENERAL CONTRACTOR, ARCHITECT, PROGRAM MANAGER, DALLAS ISD PM AND SCHOOL PERSONNEL.



PLAN NORTH

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

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

REGISTERED ARCHITECT — STATE OF TEXAS

11/16/25

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

DALLAS INDEPENDENT SCHOOL DISTRICT

McKISSACK McKISSACK

ORG 109 DISD Blair Elementary

7720 Gayglen Drive, Dallas, TX 75217

OVERALL FLOOR PLAN - PHASING PLAN

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

PH.01

PROJECT NO.: 2022200

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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.

GENERAL NOTES FOR CONSTRUCTION PHASING

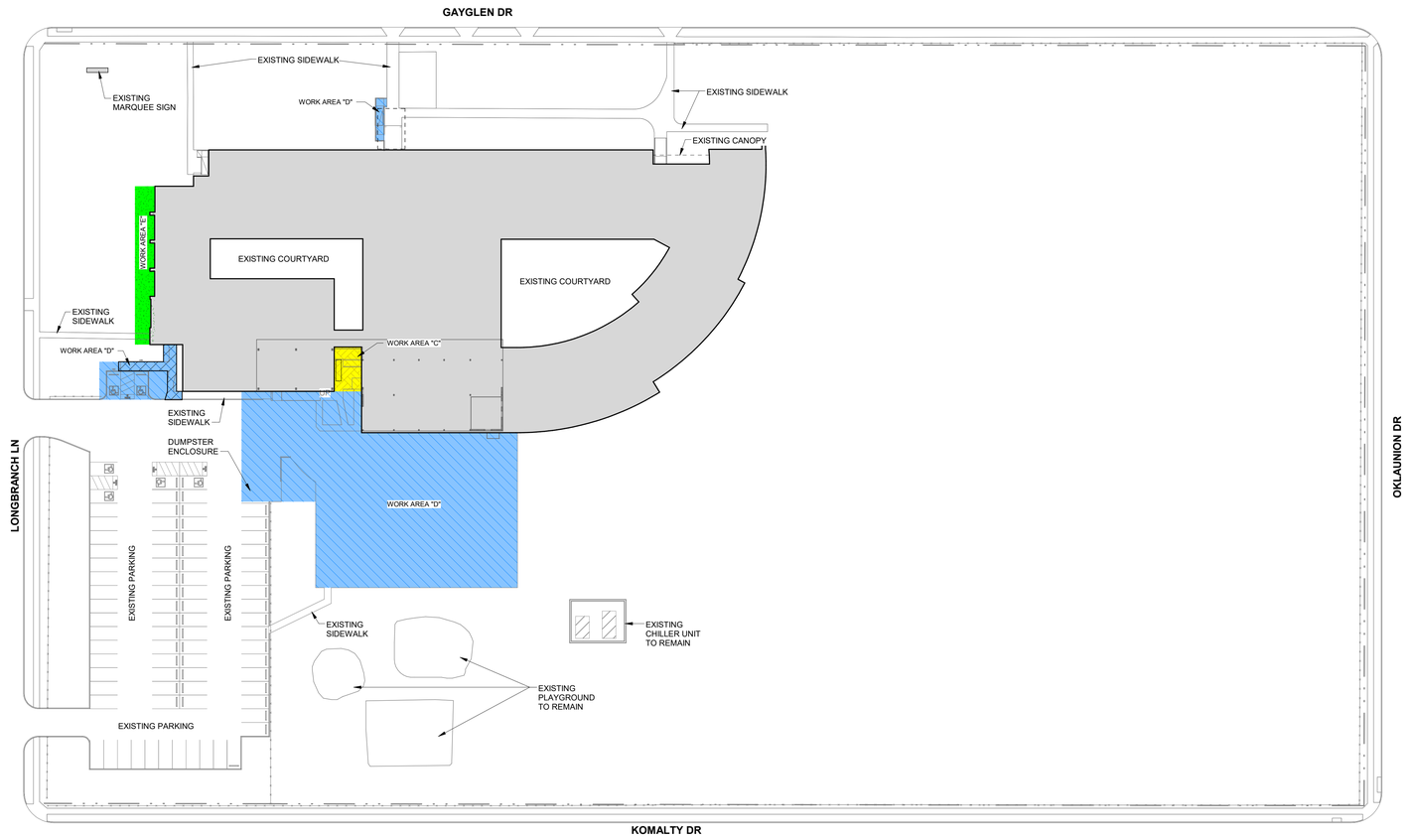
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- THE GC TO INCLUDE IN YOUR SCHEDULE FOR MAINTENANCE ABOVE CEILING WALKS FOR ALL HVAC (PRIOR TO CEILINGS BEING COVERED)
- THE GC TO INCLUDE ALL SPECIAL PROJECT ASSIGNMENTS IN YOUR SCHEDULE (PRELIFTS, PREDIGS, PREUTILITY SHUTDOWNS, ETC)
- THE GC SUBMITTALS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

SCHOOL AND WORKING HOURS:

- NORMAL SCHOOL/CLASSROOM HOURS, PLEASE REFER TO DIV. 01
- NORMAL AFTER SCHOOL WORKING HOURS (IF ALLOWED) REFER TO DIV. 01 FOR MORE DETAILED INFORMATION
- NON-SCHOOL WORKING HOURS (WEEKENDS, HOLIDAYS, BREAKS, AND SUMMER) TO BE 7:00AM TO 10:00PM (CONFIRM WITH CITY OF DALLAS IF WORKING HOURS CAN BE EXTENDED TO 12:00AM OR BEYOND).

PLEASE NOTE THAT THE FINAL SCHEDULE AND OR PHASING SCHEDULES ALONG WITH AREA OF WORK ASSOCIATED WITH PROPOSED SCHEDULES ARE TO BE COORDINATED BY THE GENERAL CONTRACTOR, ARCHITECT, PROGRAM MANAGER, DALLAS ISD PM AND SCHOOL PERSONNEL.



PLAN NORTH

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

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

REGISTERED ARCHITECT STATE OF TEXAS

11/16/25

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DALLAS INDEPENDENT SCHOOL DISTRICT

McKISSACK McKISSACK

ORG 109 DISD Blair Elementary

7720 Gayglen Drive, Dallas, TX 75217

OVERALL SITE PLAN - PHASING PLAN

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

PH.02

PROJECT NO.: 2022200

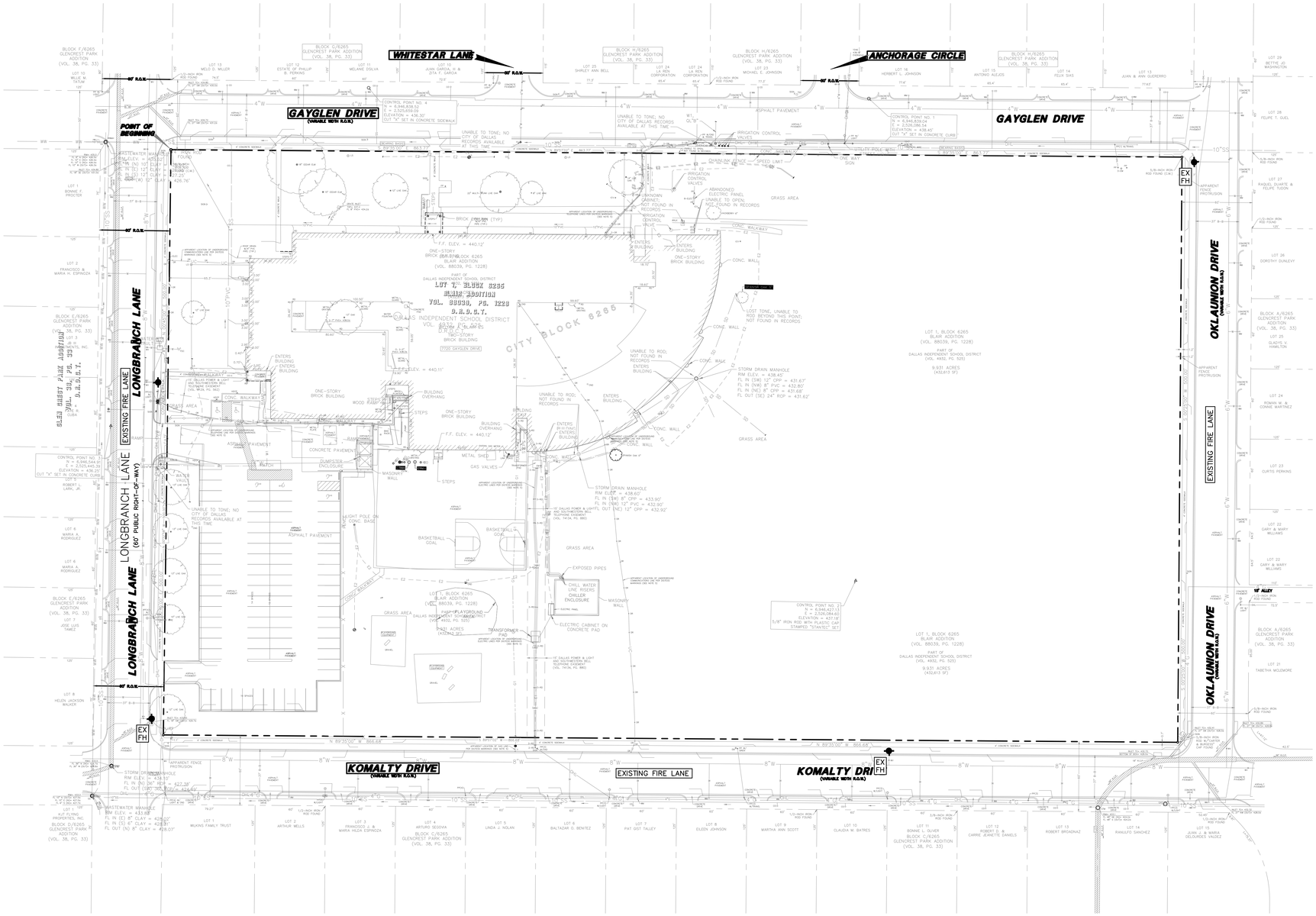
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N

GRAPHIC SCALE
0 40 80
(IN FEET)
1 inch = 40 ft.

Legend

- EXISTING BUILDING
- WW — EXISTING WASTEWATER LINE
- W — EXISTING WATER LINE
- W2 — EXISTING CHILL WATER LINE
- SD — EXISTING STORM SEWER LINE
- G — EXISTING GAS LINE
- E — EXISTING UNDERGROUND ELECTRIC



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shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
972.392.7340
DALLAS, TEXAS 75207
PROJECT NO. 4210258
TBPE FIRM 7986

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

STATE OF TEXAS
JYNDU M. SIPOS
111707
LICENSED
PROFESSIONAL ENGINEER
11.16.2025

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DISD Blair Elementary

7720 Gayglen Drive, Dallas, TX

EXISTING CONDITIONS PLAN

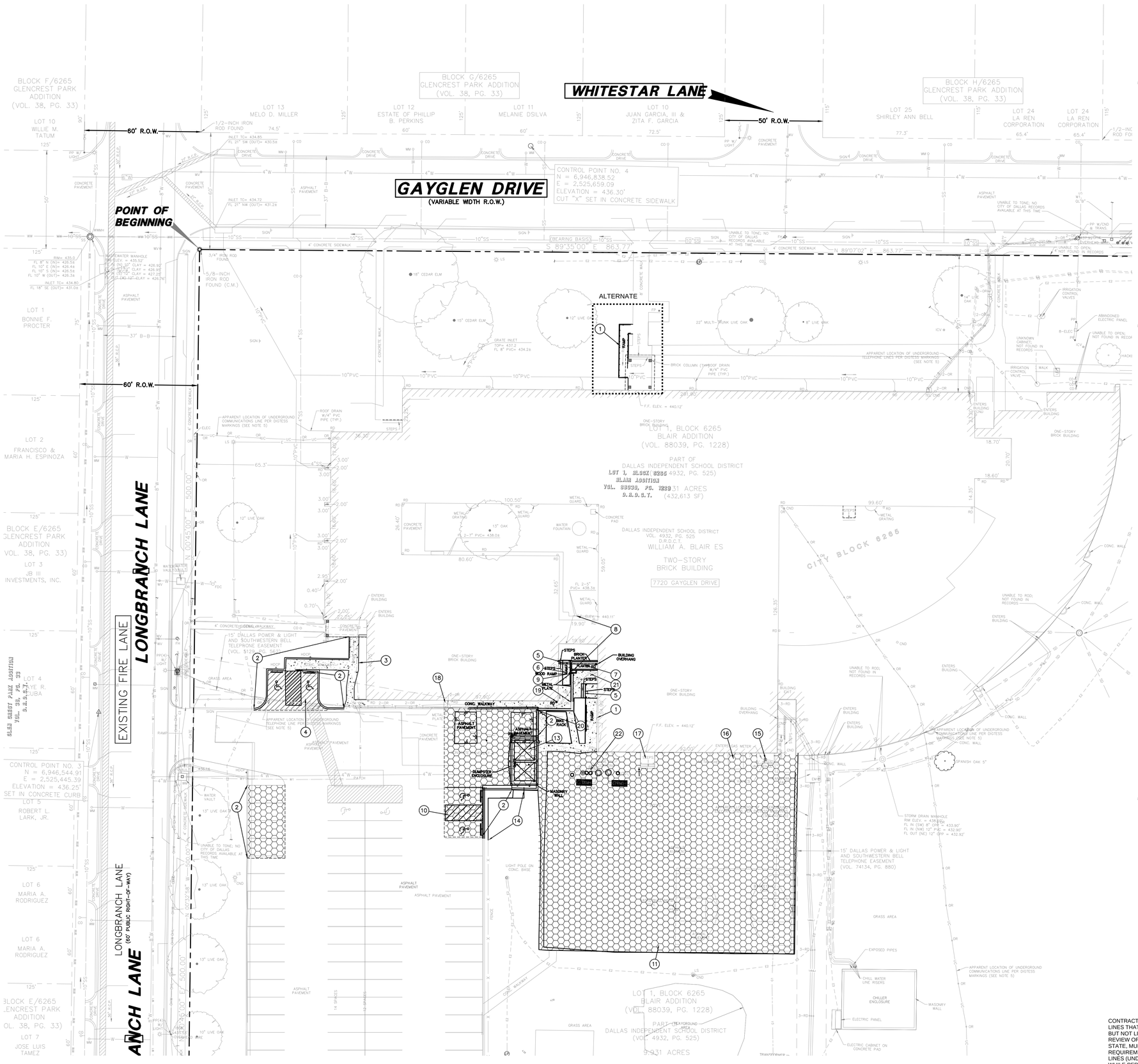
DRAWING RECORD

DATE	DESCRIPTION
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09/26/25	100% REVIEW
10/17/25	100% CD - ISSUE FOR BID
11/16/25	100% CD - ISSUE FOR BID

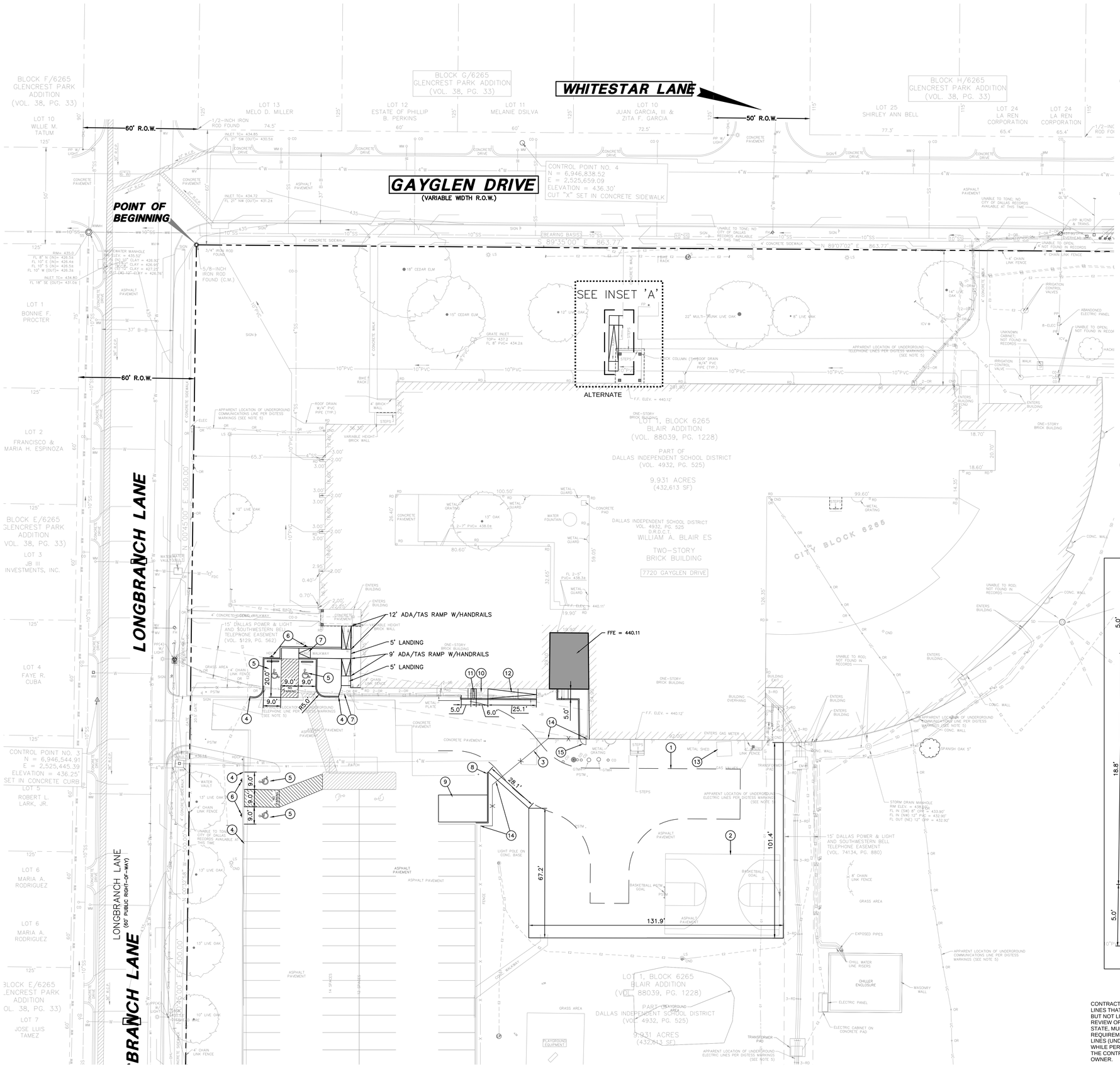
C1.00

PROJECT NO.: 2022200

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WHITESTAR LANE
50' R.O.W.
GAYGLEN DRIVE
(VARIABLE WIDTH R.O.W.)
POINT OF BEGINNING
60' R.O.W.
LONGBRANCH LANE
EXISTING FIRE LANE
LONGBRANCH LANE
(60' PUBLIC RIGHT-OF-WAY)
CONTROL POINT NO. 4
N = 6,946,838.52
E = 2,525,659.09
ELEVATION = 436.30'
CUT "X" SET IN CONCRETE SIDEWALK
(BEARING BASIS)
S 89°50'00" W 863.77'
N 89°07'02" E 863.77'
3/4" IRON ROD FOUND
5/8-INCH IRON ROD FOUND (C.M.)
1/2-INCH IRON ROD FOUND
ALTERNATE
RAMP
STEPS
F.F. ELEV. = 440.12'
BRICK COLUMN (TYP.)
ROOF DRAIN W/4" PVC PIPE (TYP.)
ONE-STORY BRICK BUILDING
LOT 1, BLOCK 6265
BLAIR ADDITION
(VOL. 88039, PG. 1228)
PART OF
DALLAS INDEPENDENT SCHOOL DISTRICT
LOT 1, BLOCK 6265 (2265 4932, PG. 525)
BLAIR ADDITION
VOL. 88039, PG. 1229 31 ACRES
D.R.D.C.T. (432,613 SF)
DALLAS INDEPENDENT SCHOOL DISTRICT
VOL. 4932, PG. 525
D.R.D.C.T.
WILLIAM A. BLAIR ES
TWO-STORY
BRICK BUILDING
7720 GAYGLEN DRIVE
CITY BLOCK 6265
LOT 1, BLOCK 6265
BLAIR ADDITION
(VOL. 88039, PG. 1228)
PART OF
DALLAS INDEPENDENT SCHOOL DISTRICT
VOL. 4932, PG. 525
9.931 ACRES
BLOCK F/6265
GLENCREST PARK ADDITION
(VOL. 38, PG. 33)
BLOCK G/6265
GLENCREST PARK ADDITION
(VOL. 38, PG. 33)
BLOCK H/6265
GLENCREST PARK ADDITION
(VOL. 38, PG. 33)
BLOCK E/6265
GLENCREST PARK ADDITION
(VOL. 38, PG. 33)
LOT 10 WILLIE M. TATUM
LOT 13 MELO D. MILLER
LOT 12 ESTATE OF PHILLIP B. PERKINS
LOT 11 MELANIE DSILVA
LOT 10 JUAN GARCIA, III & ZITA F. GARCIA
LOT 25 SHIRLEY ANN BELL
LOT 24 LA REN CORPORATION
LOT 1 BONNIE F. PROCTER
LOT 2 FRANCISCO & MARIA H. ESPINOZA
LOT 3 JB III INVESTMENTS, INC.
LOT 4 FAYE R. CUBA
LOT 5 ROBERT L. LARK, JR.
LOT 6 MARIA A. RODRIGUEZ
LOT 7 JOSE LUIS TAMEZ
CONTROL POINT NO. 3
N = 6,946,544.91
E = 2,525,445.39
ELEVATION = 436.25'
SET IN CONCRETE CURB
N 00°45'00" E 500.00'
S 00°45'00" W 500.00'
15' DALLAS POWER & LIGHT AND SOUTHWESTERN BELL TELEPHONE EASEMENT (VOL. 5129, PG. 567)
15' DALLAS POWER & LIGHT AND TELEPHONE EASEMENT (VOL. 74134, PG. 880)
APPARENT LOCATION OF UNDERGROUND TELEPHONE LINES PER DISTESS MARKINGS (SEE NOTE 5)
APPARENT LOCATION OF UNDERGROUND COMMUNICATIONS LINE PER DISTESS MARKINGS (SEE NOTE 5)
UNABLE TO TONE; NO CITY OF DALLAS RECORDS AVAILABLE AT THIS TIME
UNABLE TO OPEN; NOT FOUND IN RECORDS
UNABLE TO ROD; NOT FOUND IN RECORDS
UNKNOWN CABINET; NOT FOUND IN RECORDS
ABANDONED ELECTRIC PANEL
IRRIGATION CONTROL VALVES
IRRIGATION CONTROL VALVE
STORM DRAIN MANHOLE
RIM ELEV. = 438.60
FL IN (SW) 8" CPP = 433.90'
FL IN (NW) 12" PVC = 432.90'
FL OUT (NE) 12" CPP = 432.92'
WATER MANHOLE
RIM= 435.0
FL 8" N (IN)= 426.54
FL 10" E (IN)= 426.44
FL 10" S (IN)= 426.54
FL 10" W (OUT)= 426.34
INLET TC= 434.80
FL 18" SE (OUT)= 431.04
INLET TC= 434.85
FL 21" SW (OUT)= 430.54
INLET TC= 434.72
FL 21" NW (OUT)= 431.24
GRATE INLET
TOP= 437.2
FL 8" PVC= 434.28
FL 2-3" PVC= 438.06
FL 2-3" PVC= 438.33
FL 2-3" PVC= 438.53
FL 2-3" PVC= 438.73
FL 2-3" PVC= 438.93
FL 2-3" PVC= 439.13
FL 2-3" PVC= 439.33
FL 2-3" PVC= 439.53
FL 2-3" PVC= 439.73
FL 2-3" PVC= 439.93
FL 2-3" PVC= 440.11
FL 2-3" PVC= 435.35
FL 2-3" PVC= 435.55
FL 2-3" PVC= 435.75
FL 2-3" PVC= 435.95
FL 2-3" PVC= 436.15
FL 2-3" PVC= 436.35
FL 2-3" PVC= 436.55
FL 2-3" PVC= 436.75
FL 2-3" PVC= 436.95
FL 2-3" PVC= 437.15
FL 2-3" PVC=

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Legend

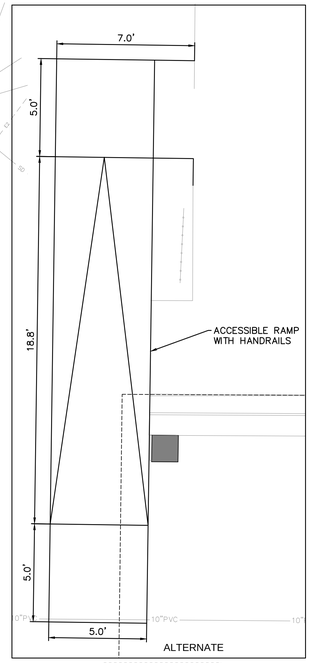
- PROPOSED BUILDING
- PROPERTY LINE
- FULL DEPTH SAWCUT [APPROXIMATE LOCATION]
- EXISTING OR PROPOSED SIGN

Keynotes

1. FIRE LANE STRIPING PER COD STANDARDS
2. CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF PLAYGROUND STRIPING AND EQUIPMENT WITH OWNER.
3. GATE WITH KNOX BOX (REF ARCH)
4. 6" CURB AND GUTTER (REF C15.01)
5. ADA/TAS PARKING SPACE WITH ACCESSIBLE STRIPING, WHEEL STOP, AND SYMBOL (REF C15.00)
6. ACCESSIBLE SIGNAGE (REF C15.00)
7. CURB RAMP (REF C15.01)
8. TAPER NEW CURB TO 0" HEIGHT IN LAST FIVE FEET
9. NEW DUMPSTER ENCLOSURE (REF ARCH)
10. LANDING AT DOOR
11. SITE STAIRS
12. ACCESSIBLE RAMP W/HANDRAILS
13. RESET METAL SHED
14. LIMITS OF NEW WROUGHT IRON FENCE (MATCH EXISTING TYPE)
15. NEW MAN GATE (MATCH EXISTING TYPE)

Notes

1. REFER TO THE ADA/TAS ASSESSMENT PROVIDED BY CODE SOLUTIONS, INC. DATED 09-01-2022 FOR ADDITIONAL INFORMATION REGARDING TAS IMPROVEMENTS..
2. REFER TO ALPHA TESTING GEOTECHNICAL REPORT NO. G231053 FOR EARTHWORK, SUBGRADE, AND PAVEMENT REQUIREMENTS.
3. THE BACKGROUNDS USED FOR THIS PROJECT WERE PROVIDED BY THE OWNER AND HAVE NOT BEEN VERIFIED FOR COMPLETENESS AND ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY ALL THE INFORMATION BEFORE CONSTRUCTION.



INSET 'A'

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CONTROL POINT NO. 1
N = 6946839.04
E = 2526086.54
ELEVATION = 438.45'
CUT "X" SET IN CONC CURB

CONTROL POINT NO. 2
N = 6946427.13
E = 2526084.60
ELEVATION = 437.18'
3" IRON ROD W/ PLASTIC CAP STAMPED "STANTEC" SET

CONTROL POINT NO. 3
N = 6946544.91
E = 2525445.39
ELEVATION = 436.25'
CUT "X" SET IN CONC CURB

CONTROL POINT NO. 4
N = 6946838.52
E = 2525659.09
ELEVATION = 436.3
CUT "X" SET IN CONC SIDEWALK

shaping the built environment
JQ INFRASTRUCTURE, LLC
330 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340
PROJECT NO. 4210258 TBPE FIRM 7986

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

STATE OF TEXAS
JASON M. SIMCIK
111707
LICENSED
PROFESSIONAL ENGINEER
11.16.2025

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DALLAS INDEPENDENT SCHOOL DISTRICT

McKISSACK McKISSACK

DISD Blair Elementary

7720 Gayglen Drive, Dallas, TX

SITE PLAN

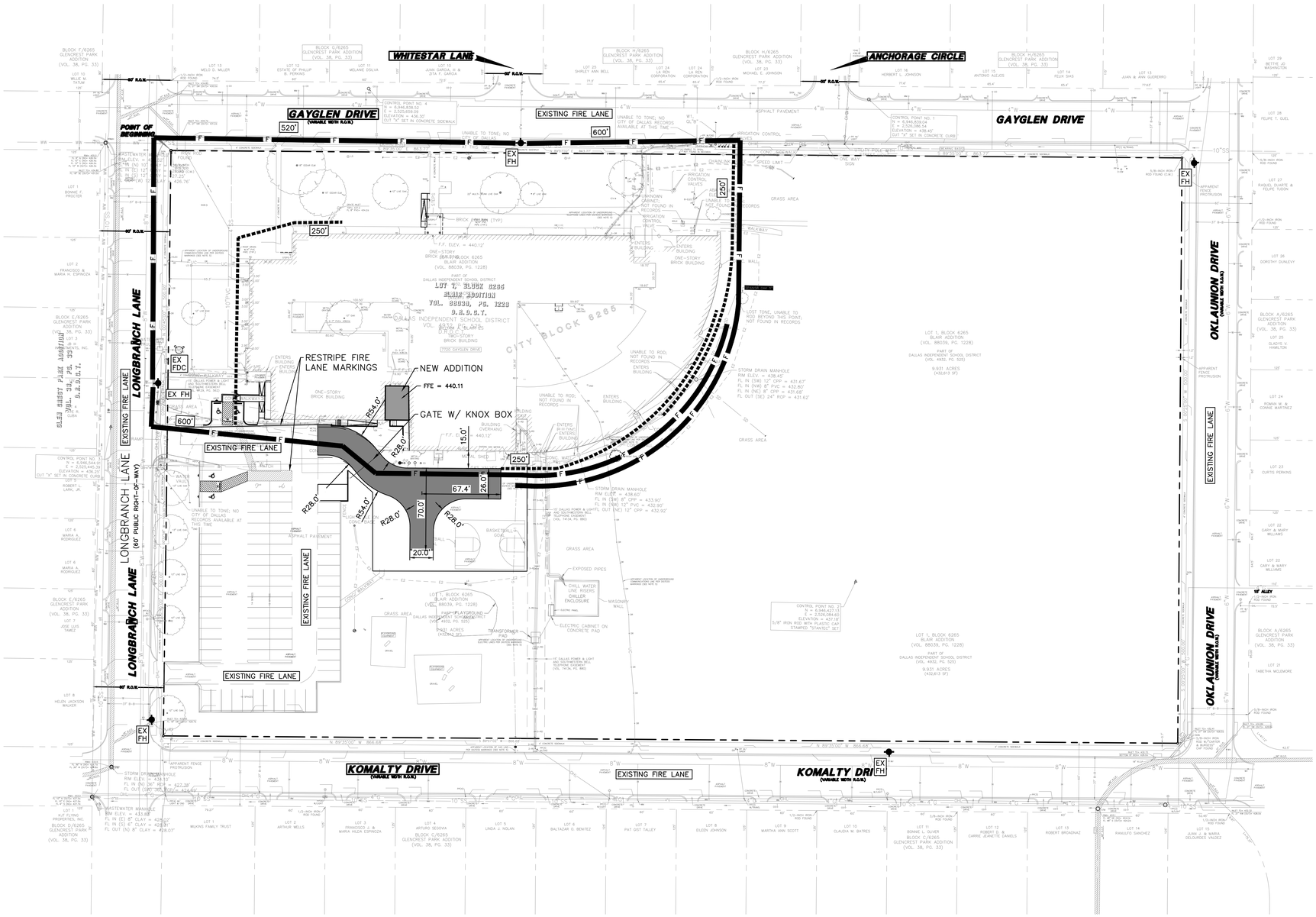
DRAWING RECORD

DATE	DESCRIPTION
01/16/24	PROGRESS SET
09/26/25	100% REVIEW
10/17/25	100% CD - ISSUE FOR BID
11/16/25	100% CD - ISSUE FOR BID

C3.00

PROJECT NO.: 2022200

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GRAPHIC SCALE
0 40 80
(IN FEET)
1 inch = 40 ft.

Legend

- PROPOSED FIRE LANE W/ COD APPROVED STRIPING
- FH — EXISTING/PROPOSED FIRE HYDRANT
- FDC — EXISTING/PROPOSED FDC
- F — HYDRANT COVERAGE (SPRINKLED BUILDING) (600' MAX FIRE PATH DISTANCE FROM FH TO ALL CORNERS OF THE BUILDING)
- HOSE LAY LENGTH (250' MAX DISTANCE FROM FIRE LANE TO ALL CORNERS OF THE BUILDING)

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FIRE PROTECTION PLAN

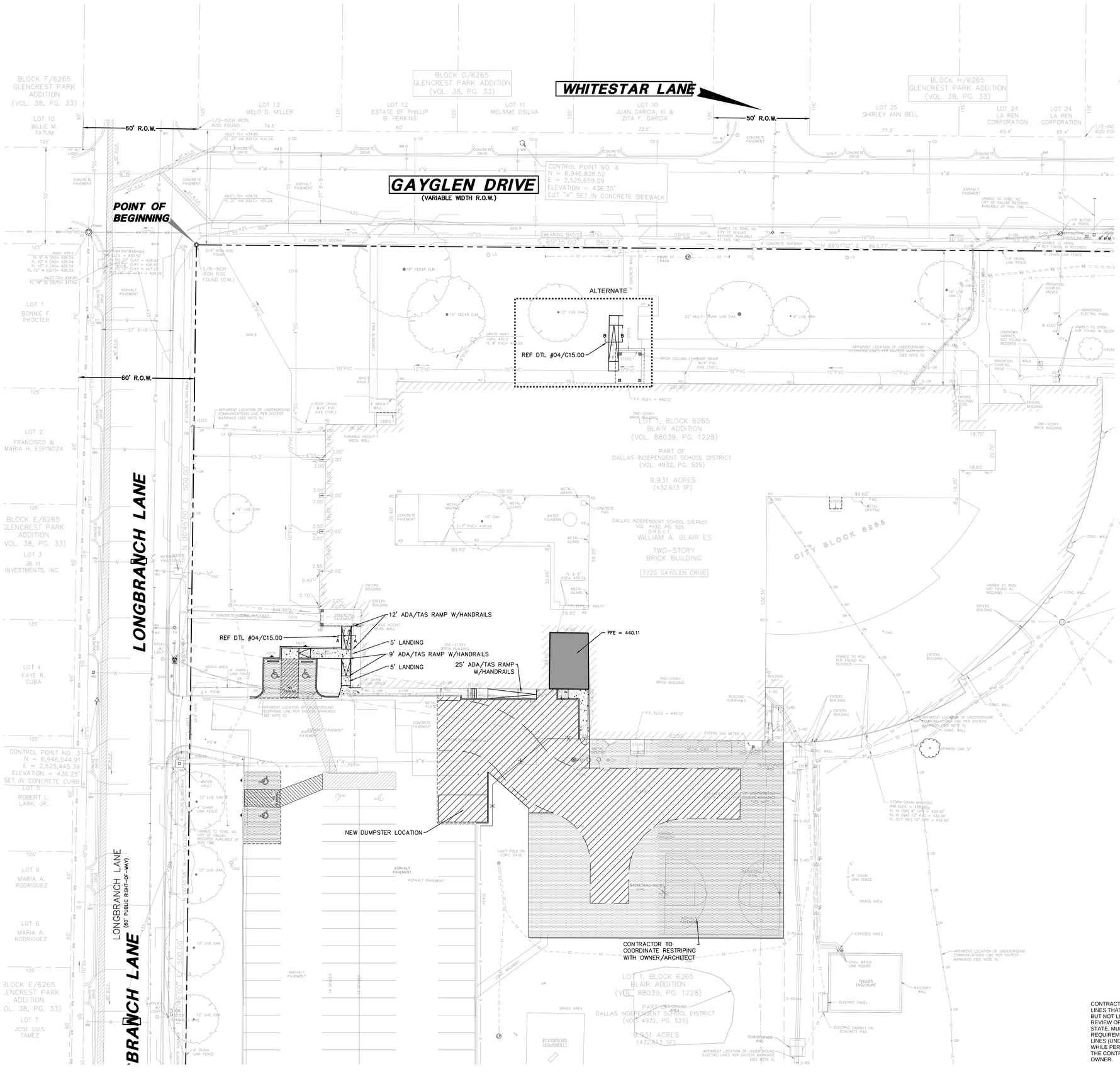
DRAWING RECORD	
DATE	DESCRIPTION
01/16/24	PROGRESS SET
09/26/25	100% REVIEW
10/17/25	100% CD - ISSUE FOR BID
11/16/25	100% CD - ISSUE FOR BID

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4210258 TBPE FIRM 7986

C5.00

PROJECT NO.: 2022200

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Legend

- PROPOSED BUILDING
- PROPERTY LINE
- NEW 4" CONCRETE SIDEWALK
- NEW HEAVY DUTY CONCRETE PAVEMENT (6" PCC OVER 6" LIME TREATED SUBGRADE. SEE NOTE 2)
- NEW LIGHT DUTY CONCRETE PAVEMENT (5" PCC OVER 6" SCARIFIED AND COMPACTED SUBGRADE. SEE NOTE 2)
- FULL DEPTH SAWCUT

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

Notes

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CONTROL POINT NO. 1
N = 6946839.04
E = 2526086.54
ELEVATION = 438.45'
CUT "X" SET IN CONC CURB

CONTROL POINT NO. 2
N = 6946427.13
E = 2526084.60
ELEVATION = 437.18'
5/8" IRON ROD W/ PLASTIC CAP STAMPED "STANTEC" SET

CONTROL POINT NO. 3
N = 6946544.91
E = 2525445.39
ELEVATION = 436.25'
CUT "X" SET IN CONC CURB

CONTROL POINT NO. 4
N = 6946838.52
E = 2525659.09
ELEVATION = 436.3
CUT "X" SET IN CONC SIDEWALK

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PAVING PLAN

DRAWING RECORD

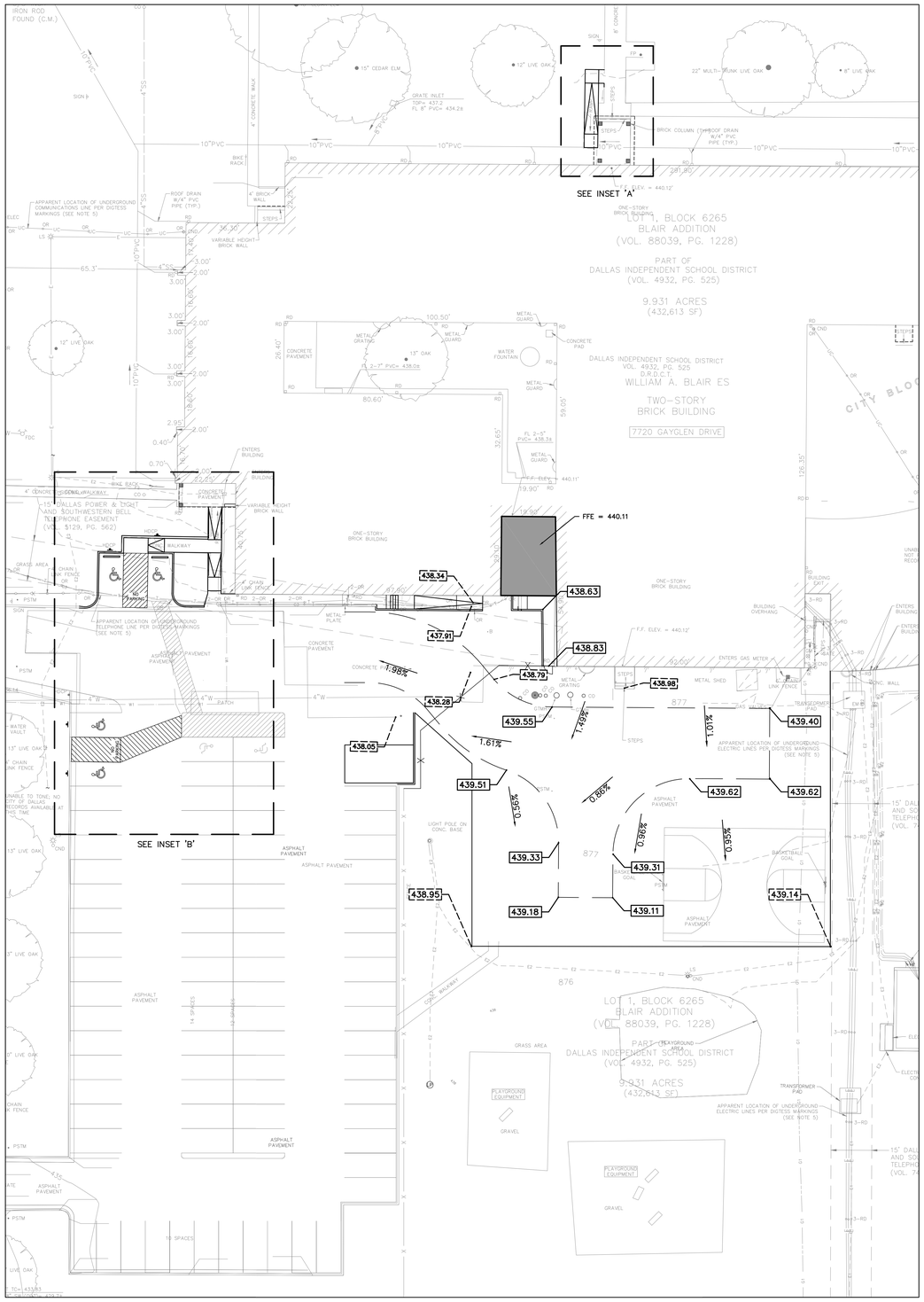
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11/16/25	100% CD - ISSUE FOR BID

C6.00

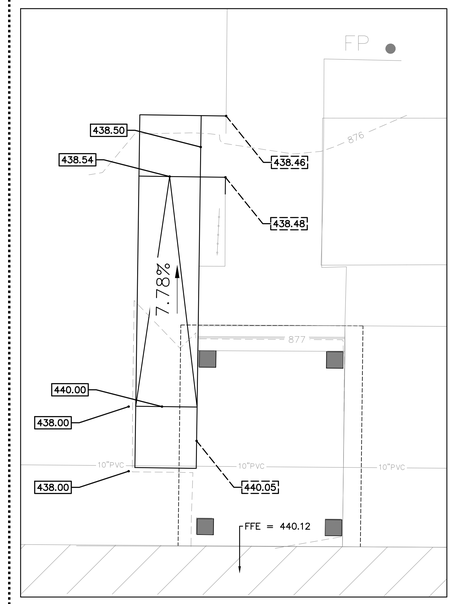
PROJECT NO.: 2022200

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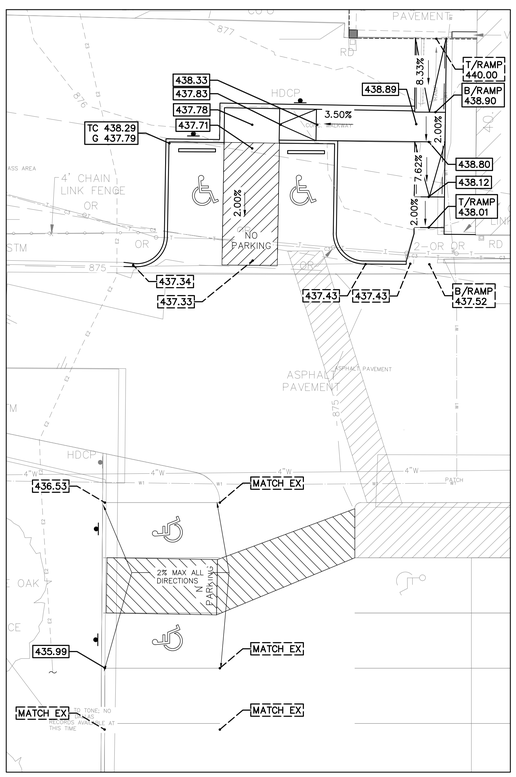
GRAPHIC SCALE
0 20 40
(IN FEET)
1 inch = 20 ft.



GRAPHIC SCALE
0 5 10
(IN FEET)
1 inch = 5 ft.



ALTERNATE
INSET 'A'



INSET 'B'

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

Legend

	PROPOSED BUILDING
	MATCH EXISTING AT SAWCUT
	SWALE/LOW POINT FLOW DIRECTION
	PROPERTY LINE
478	EXISTING CONTOUR AND ELEVATION
478	PROPOSED CONTOUR AND ELEVATION
477.09	MATCH EXISTING ELEVATION
477.09	PROPOSED SPOT GRADE
TC	TOP OF CURB ELEVATION
G	GUTTER ELEVATION
TP	TOP OF PAVEMENT
TG	TOP OF GRATE
TOP	TOP OF STRUCTURE
TW	TOP OF WALL AT GRADE
BW	BOTTOM OF WALL AT GRADE
TS	TOP OF STAIR ELEVATION
BS	BOTTOM OF STAIR ELEVATION
BC	BUILDING CORNER AT GRADE
FF	FINISHED FLOOR ELEVATION
NG	NATURAL GRADE
H. P. / L. P.	ELEVATION HIGH POINT / ELEVATION LOW POINT
0.0%	% SLOPE/GRADE
	FLOW DIRECTION

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ELEVATION = 437.18'
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N = 6946544.91
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ELEVATION = 436.25'
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N = 6946838.52
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shaping the built environment
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PROJECT NO: 4210258
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McKISSACK McKISSACK

DISD Blair Elementary

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GRADING PLAN

DRAWING RECORD

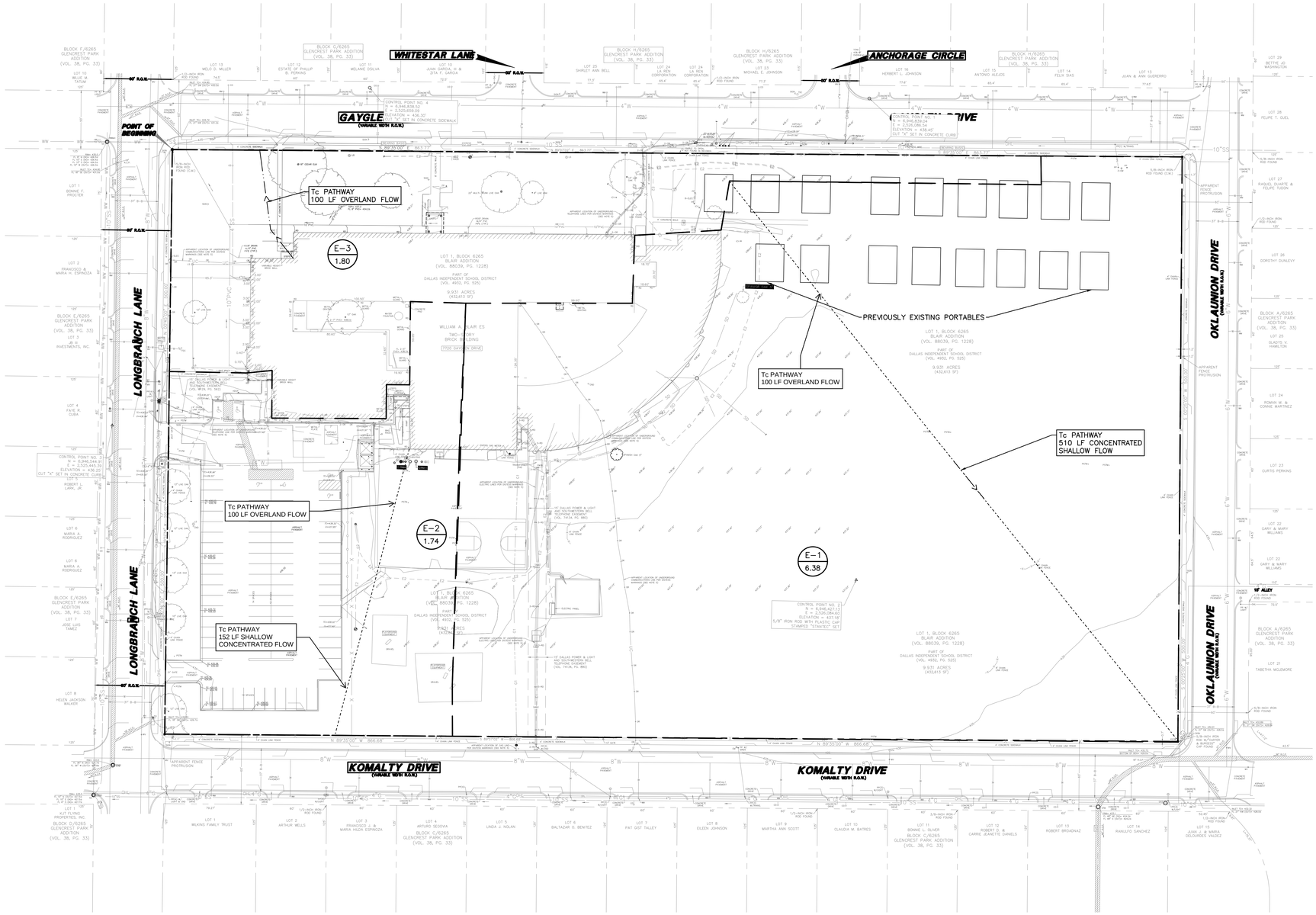
DATE	DESCRIPTION
01/16/24	PROGRESS SET
09/26/25	100% REVIEW
10/17/25	100% CD - ISSUE FOR BID
11/16/25	100% CD - ISSUE FOR BID

C7.00

PROJECT NO.: 2022200

Any Traffic Control Plan (TCP) must be submitted to the Department of Public Works for review and approval by Traffic Safety Coordinators prior to start of construction. No traffic lane or sidewalk along any public street or alley is to be closed without first obtaining the appropriate permit(s). Closure of any traffic lane must be restricted to the hours of 9:30 a.m. to 3:30 p.m. workdays (hours may differ in school zones). Contractor must call (214) 948-4290 to request approval of TCP and to obtain a right-of-way permit.

PRE	TOTAL AREA	PERVIOUS	IMPERVIOUS	Tc	C	I2	I10	I50	I100	Q2	Q10	Q50	Q100	ZONING	COMMENT
E-1	6.38	5.38	1.00	14	0.39	3.99	6.56	8.62	9.49	10.02	16.47	21.64	23.82	PD-840	DRAINS TO CURB INLET ON OKLAUNION/KOMALTY INTERSECTION
E-2	1.74	0.65	1.09	11	0.68	4.15	5.86	7.68	8.45	4.88	6.89	9.02	9.93	PD-840	DRAINS TO CURB INLET ON LONGBRANCH
E-3	1.82	1.07	0.75	12	0.55	4.31	6.09	7.99	8.79	4.30	6.07	7.96	8.76	PD-840	DRAINS TO CURB INLET ON GAYGLEN
TOTAL	9.94	7.10	2.84		0.47					19.19	29.43	38.63	42.52		



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N

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

Legend

- EXISTING CONTOUR AND ELEVATION
- 478 — PROPOSED CONTOUR AND ELEVATION
- PROPOSED DRAINAGE SWALE
- DRAINAGE FLOW ARROWS
- X-X / X.XX — DRAINAGE AREA NO. / AREA (ACRES)
- DRAINAGE AREA BOUNDARY

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STATE OF TEXAS
JASON M. SIPPLE
111707
REGISTERED
PROFESSIONAL ENGINEER

11.16.2025

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DALLAS INDEPENDENT SCHOOL DISTRICT

McKISSACK McKISSACK

DISD Blair Elementary

7720 Gayglen Drive, Dallas, TX

PRE-DEVELOPED DRAINAGE AREA MAP

DRAWING RECORD

DATE	DESCRIPTION
01/16/24	PROGRESS SET
09/26/25	100% REVIEW
10/17/25	100% CD - ISSUE FOR BID
11/16/25	100% CD - ISSUE FOR BID

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4210258 TBPE FIRM 7986

C8.00

PROJECT NO.: 2022200

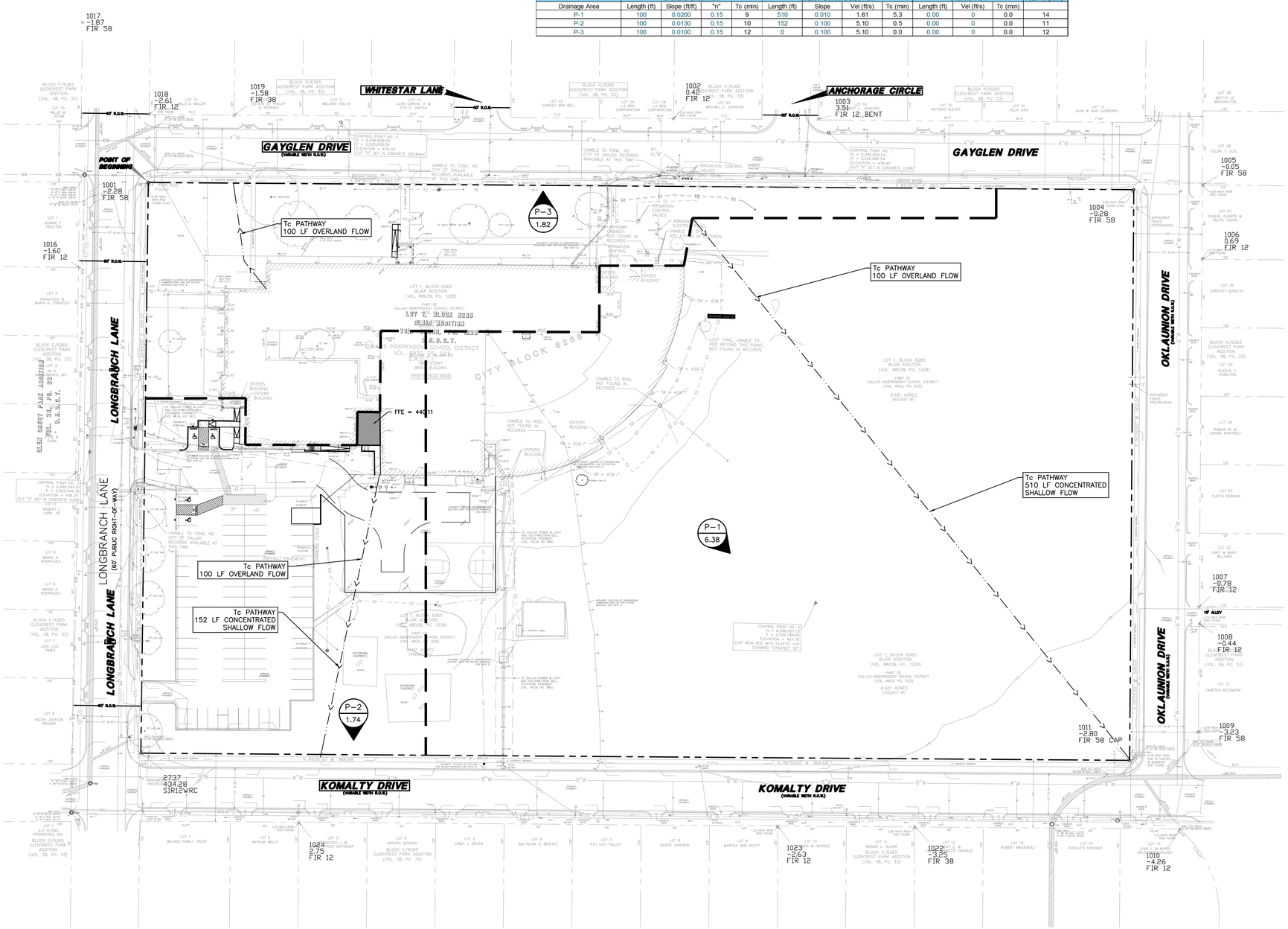
© COPYRIGHT 2023 ALLIANCE ARCHITECTS, INC.

PRE	TOTAL AREA	PERVIOUS	IMPERVIOUS	Tc	C	I2	I10	I50	I100	Q2	Q10	Q50	Q100	ZONING	COMMENT
E-1	6.38	5.38	1.00	14	0.39	3.99	6.56	8.62	9.49	10.02	16.47	21.64	23.82	PD-840	DRAINS TO CURB INLET ON OKLAUNION/KOMALTY INTERSECTION
E-2	1.74	0.65	1.09	11	0.68	4.15	5.86	7.68	8.45	4.88	6.89	9.02	9.93	PD-840	DRAINS TO CURB INLET ON LONGBRANCH
E-3	1.82	1.07	0.75	12	0.55	4.31	6.09	7.99	8.79	4.30	6.07	7.96	8.76	PD-840	DRAINS TO CURB INLET ON GAYGLEN
TOTAL	9.94	7.10	2.84		0.47					19.19	29.43	38.63	42.52		

POST	TOTAL AREA	PERVIOUS	IMPERVIOUS	Tc	C	I2	I10	I50	I100	Q2	Q10	Q50	Q100		
P-1	6.38	5.69	0.69	14	0.37	3.99	6.56	8.62	9.49	9.30	15.28	20.08	22.10	PD-840	DRAINS TO CURB INLET ON OKLAUNION/KOMALTY INTERSECTION
P-2	1.74	0.64	1.10	11	0.68	4.15	5.86	7.68	8.45	4.91	6.93	9.09	10.00	PD-840	DRAINS TO CURB INLET ON LONGBRANCH
P-3	1.82	1.08	0.74	12	0.54	4.31	6.09	7.99	8.79	4.26	6.02	7.90	8.69	PD-840	DRAINS TO CURB INLET ON GAYGLEN
TOTAL	9.94	7.40	2.53		0.45					18.47	28.23	37.06	40.79		

PROPOSED CONDITIONS

	Overland Sheet Flow				Shallow Concentrated Flow				Channel Flow			Total Tc (min)
Drainage Area	Length (ft)	Slope (ft/ft)	"n"	Tc (min)	Length (ft)	Slope	Vel (ft/s)	Tc (min)	Length (ft)	Vel (ft/s)	Tc (min)	
P-1	100	0.0200	0.15	9	510	0.010	1.61	5.3	0.00	0	0.0	14
P-2	100	0.0130	0.15	10	152	0.100	5.10	0.5	0.00	0	0.0	11
P-3	100	0.0100	0.15	12	0	0.100	5.10	0.0	0.00	0	0.0	12



Legend

- PROPERTY LINE
- 478 EXISTING CONTOUR AND ELEVATION
- 478 PROPOSED CONTOUR AND ELEVATION
- PROPOSED DRAINAGE SWALE
- DRAINAGE FLOW ARROWS
- X—X / X.XX DIRECTION OF FLOW INDICATED BY ARROW; DRAINAGE AREA NO.; AREA (ACRES)
- DRAINAGE AREA BOUNDARY

GRAPHIC SCALE
0 40 80
(IN FEET)
1 inch = 40 ft.

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11.16.2025

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7720 Gayglen Drive, Dallas, TX

POST-DEVELOPED DRAINAGE AREA MAP

DRAWING RECORD

DATE	DESCRIPTION
01/16/24	PROGRESS SET
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10/17/25	100% CD - ISSUE FOR BID
11/16/25	100% CD - ISSUE FOR BID

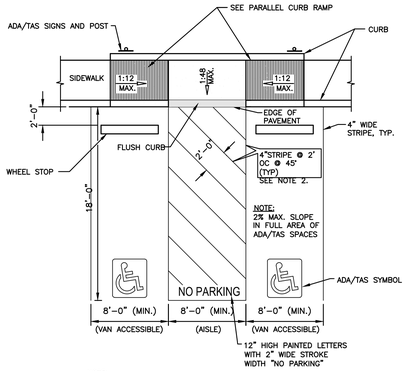
shaping the built environment
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100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.352.7740
PROJECT NO: 4210258 TBPE FIRM 7986

C9.00

PROJECT NO.: 2022200

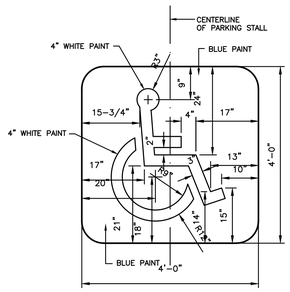
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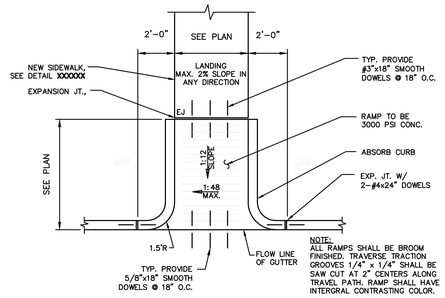


NOTE:
1. ALL WALKWAYS, RAMPS, HANDICAP PARKING SIGNAGE, ETC. SHALL MEET APPROVED ADA/TAS STANDARDS.
2. ALL STRIPING WITHIN ADA/TAS SPACES TO BE BLUE TRAFFIC PAINT.

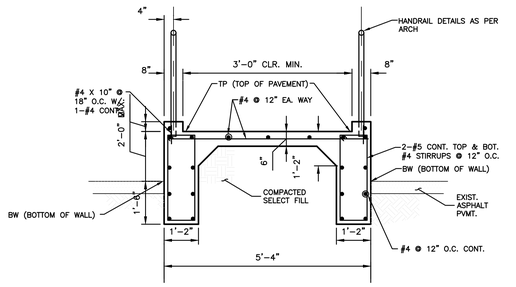
01 TYPICAL ACCESSIBLE PARKING LAYOUT
N.T.S.



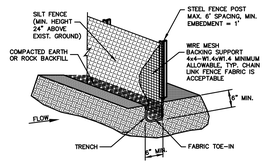
02 PARKING SPACE ACCESSIBLE SYMBOL DETAIL
N.T.S.



03 STRAIGHT CURB RAMP DETAIL
N.T.S.



04 ADA RAMP DETAIL
N.T.S.

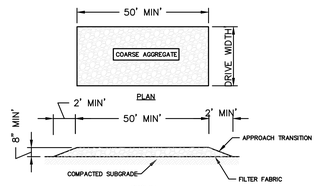


ISOMETRIC PLAN VIEW

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.

05 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.

06 CONSTRUCTION ENTRANCE
N.T.S.

CONTROL POINT NO. 1
N = 6946839.04
E = 2526086.54
ELEVATION = 438.45'
CUT "X" SET IN CONC CURB

CONTROL POINT NO. 2
N = 6946427.13
E = 2526084.60
ELEVATION = 437.18'
5/8" IRON ROD W/ PLASTIC CAP STAMPED "STANTEC" SET

CONTROL POINT NO. 3
N = 6946544.91
E = 2525445.39
ELEVATION = 436.25'
CUT "X" SET IN CONC CURB

CONTROL POINT NO. 4
N = 6946838.52
E = 2525659.09
ELEVATION = 436.3
CUT "X" SET IN CONC SIDEWALK

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
972.392.7340
DALLAS, TEXAS 75207
PROJECT NO. 4210258
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McKISSACK McKISSACK

DISD Blair Elementary

7720 Gayglen Drive, Dallas, TX

CIVIL DETAILS

DRAWING RECORD

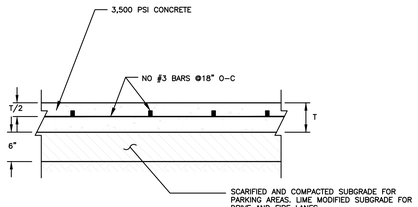
DATE	DESCRIPTION
01/16/24	PROGRESS SET
09/26/25	100% REVIEW
10/17/25	100% CD - ISSUE FOR BID
11/16/25	100% CD - ISSUE FOR BID

C15.00

PROJECT NO.: 2022200

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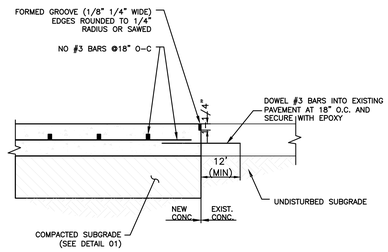
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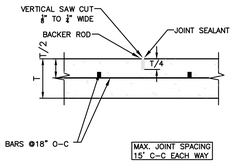
T= 6" FOR DRIVE AND FIRE LANES
T= 5" FOR PARKING AREAS

REFER TO ALPHA TESTING GEOTECHNICAL REPORT NO. G231053 FOR ADDITIONAL PAVEMENT AND SUBGRADE REQUIREMENTS

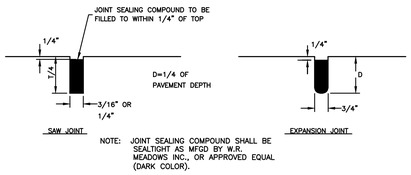
01 CONCRETE PAVEMENT SECTION
N.T.S.



02 CONCRETE PAVEMENT CONNECTION
N.T.S.

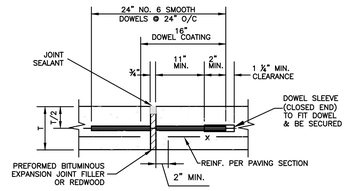


03 SAWED DUMMY (CONTROL) JOINT
N.T.S.



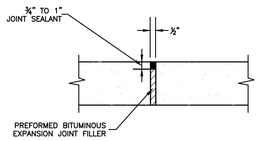
NOTE: JOINT SEALING COMPOUND SHALL BE SEALTIGHT AS MFGD BY W.R. MEADOWS INC., OR APPROVED EQUAL (DARK COLOR).

04 JOINT SEALANT DETAIL
N.T.S.

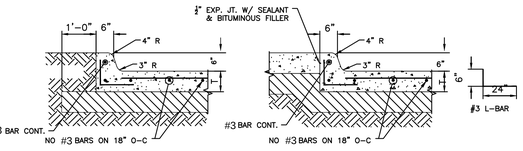


NOTE:
DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE. SOLID PLASTIC, STAINLESS STEEL, OR EPOXY COATED STEEL CHAIR OR APPROVED EQUAL.

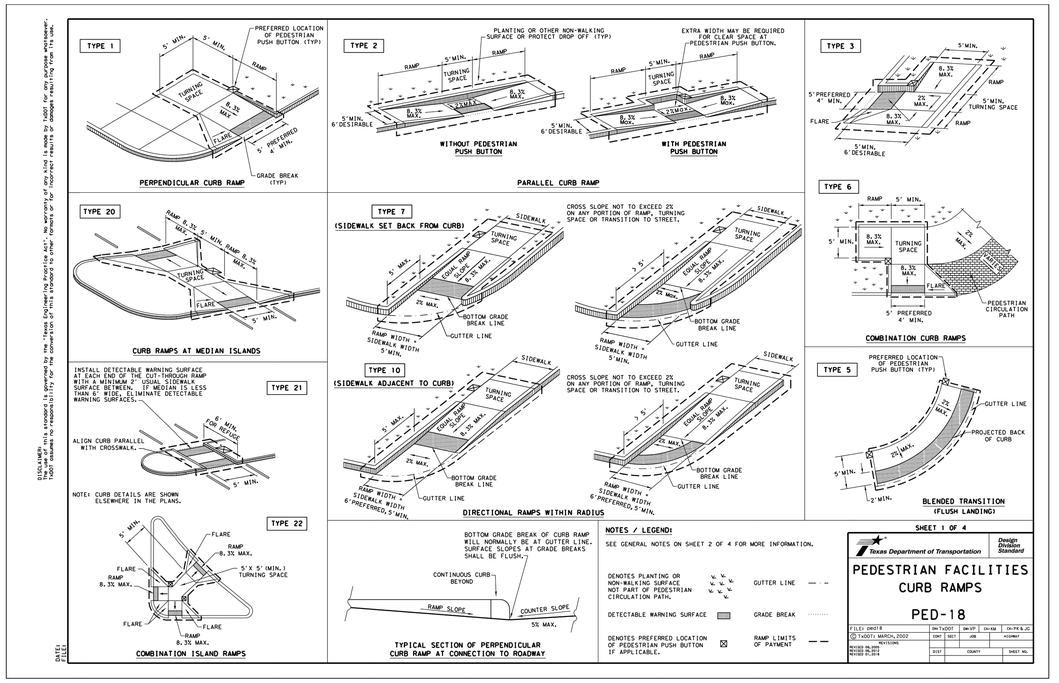
05 EXPANSION JOINT DETAIL
N.T.S.



06 ISOLATION JOINT DETAIL
N.T.S.



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



CONTROL POINT NO. 1
N = 6946839.04
E = 2526086.54
ELEVATION = 438.45'
CUT "X" SET IN CONC CURB

CONTROL POINT NO. 2
N = 6946427.13
E = 2526084.60
ELEVATION = 437.18'
5/8" IRON ROD W/ PLASTIC CAP STAMPED "STANTEC" SET

CONTROL POINT NO. 3
N = 6946544.91
E = 2525445.39
ELEVATION = 436.25'
CUT "X" SET IN CONC CURB

CONTROL POINT NO. 4
N = 6946838.52
E = 2525659.09
ELEVATION = 436.3
CUT "X" SET IN CONC SIDEWALK

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shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 221 DALLAS, TEXAS 75207
972.392.7340 TBPE FIRM 7986
PROJECT NO: 4210258

C15.01

PROJECT NO.: 2022200

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

SITE DEMOLITION LEGEND

- PARKING STRIP
- EXISTING TO BE REMOVED
- EXISTING BUILDING
- REFER TO CIVIL

SITE NOTES BY SYMBOL

01 REFER TO CIVIL FOR DEMO DIRECTIONS AND NOTES.

02 EXISTING RAMP AND HANDRAILS TO BE DEMOLISHED AND REDONE PER ADA REQUIREMENTS, REF. CIVIL.

03 EXISTING DUMPSTER ENLOSURE TO BE DEMOLISHED, RELOCATED, AND REBUILT. REF. CIVIL FOR NEW LOCATION.

04 EXISTING ASPHALT PAVEMENT TO BE REMOVED AND REPLACED WITH NEW, REF. CIVIL

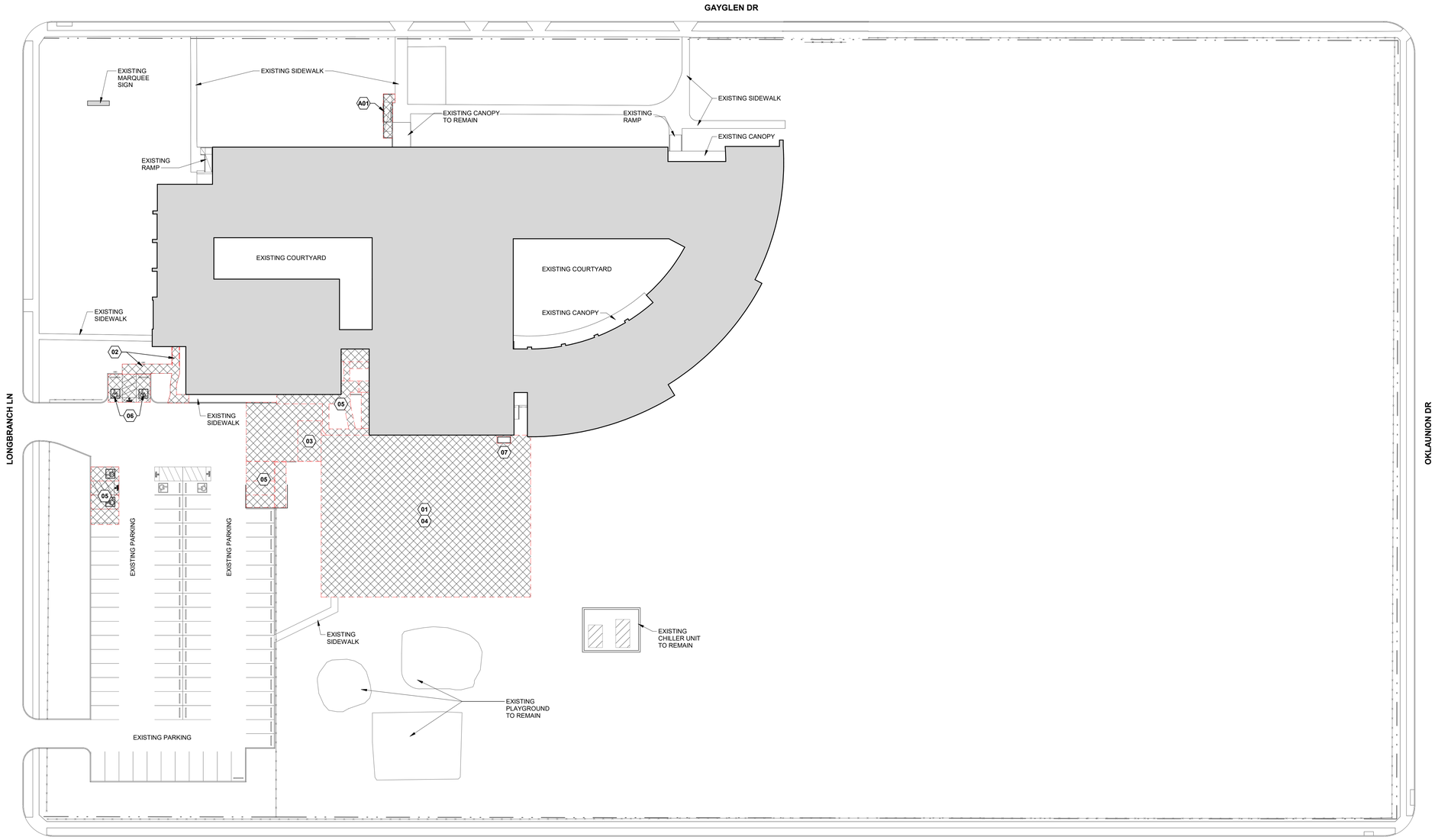
05 EXISTING CONCRETE PAVEMENT TO BE REMOVED, REF CIVIL.

06 EXISTING ADA PARKING TO BE DEMOLISHED AND REDONE PER ADA REQUIREMENTS, REF. CIVIL.

07 EXISTING EXTERIOR UTILITIES AND CHAIN FENCING TO REMAIN, REF. MEP. EXISTING ASHPALT TO REMAIN IN THIS LOCATION ONLY.

ALTERNATE SITE NOTES BY SYMBOL

A01 PORTION OF EXISTING RAMP TO BE DEMOLISHED AND PREPPED FOR NEW PER ADA REQUIREMENTS. REF. CIVIL.



TRUE NORTH PLAN NORTH

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

ALLIANCE ARCHITECTS
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REGISTERED ARCHITECT — STATE OF TEXAS

11/16/25

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DALLAS INDEPENDENT SCHOOL DISTRICT

McKISSACK McKISSACK

ORG 109 DISD Blair Elementary

7720 Gayglen Drive, Dallas, TX 75217

SITE PLAN - DEMOLITION

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

A0.00

PROJECT NO.: 2022200

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GENERAL ABATEMENT NOTES

- FOR ABATEMENT OF PLASTER CEILINGS:
  1. GC TO DIRECT THE ABATEMENT CONTRACTOR TO TEMPORARY SUPPORT ALLEXISTING MEP DUE TO WORKING UNDER A CONTAINMENT. ONCE THE AREA HAS BEEN CLEARED, THE GC IS RESPONSIBLE TO PERMANENTLY SUPPORT ALL MEP FROM STRUCTURE.
  2. NO PERMANENT SUPPORT FROM PLASTER CEILING IS ALLOWED.
  3. SPRINKLER HEADS AND DUCT WORK MUST BE SUPPORTED WITH STRUTS AND NOT STRAPS.
- PROHIBIT ABATEMENT OF ALL WINDOWS AND CEILINGS. ONLY ABATEMENT TO ASSIGNED AREAS WITH IN THE SCOPE OF WORK.
- ABATEMENT CONTRATOR TO INCLUDE ABATEMENT PHASING PLAN AND ACCOUNT FOR CAMPUS EMERGENCY EVAC. THIS INLCUDES NO DEAD END CORRIDORS, NO EGRESS INTO CONSTRUCTION AREAS, NO EVAC INTO A LOCKED INTERNAL COURTYARD, NO EGRESS INTO ABATEMENT CONTAINMENT AREAS THAT HAVE NOT BEEN CLEARED, ETC.

REFER TO SHEET A0.02 FOR GENERAL DEMOLITION NOTES

DEMO NOTES BY SYMBOL

01 REMOVE AND DISCARD PORTION OF EXISTING WALL CONSTRUCTION. PREP OPENING TO RECEIVE NEW STOREFRONT WINDOW REF. TO A6.01 FOR WINDOW TYPE

02 GC TO COORDINATE WITH OWNER ON TEMPORARY RELOCATION AND 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 AND DISCARD EXISTING FLOOR FINISH, WALL BASE, WALL FINISHES, CEILING SYSTEM(S), AND LIGHT FIXTURES. GC TO PREPARE SPACE FOR NEW FINISH INSTALL. GC TO COORDINATE WITH OWNER FOR REMOVAL AND STORAGE OF EXISTING EQUIPMENT.

04 EXISTING COLUMNS TO REMAIN, PROTECT DURING CONSTRUCTION

05 REFER TO MEP FOR DEMO.

06 CAREFULLY REMOVE WALL MOUNTED CASE AND ALL OTHER WALL MOUNTED ITEMS. SALVAGE FOR RELOCATION

07 REMOVE EXISTING STOREFRONT & CLERESTORY TO BE REMOVED AND PREPPED FOR NEW.

08 PROTECT EXISTING WALL EDGE WHEN REMOVING ADJACENT WALL

09 REMOVE AND DISCARD EXISTING WATER FOUNTAIN. REFER TO MEP FOR FUTHER INFORMATION.

10 REMOVE AND DISCARD EXISTING PLUMBING FIXTURES AND TOILET ACCESSORIES. TOILET ACCESSORIES TO BE STORED FOR REUSE. COORDINATE WITH OWNER. REFER TO MEP.

11 REMOVE EXISTING DOOR AND HARDWARE.COORDINATE WITH OWNER FOR STORAGE LOCATION.

12 EXISTING KITCHEN EQUIPMENT TO BE REMOVED. REFER TO OWNER FOR STORAGE LOCATION.

13 DEMOLISH EXISTING EXTERIOR WALL. REFER TO STRUCTURAL

14 PREP TO INSTALL INFILL WHERE OLD DOOR USED TO BE.

15 REMOVE EXISTING FREEZER, AND SALVAGE FOR REUSE. REFER TO OWNER FOR LOCATION.

16 REMOVE WALL AS REQUIRED FOR INSTALLATION OF NEW DOOR.

17 REMOVE AND DISCARD EXISTING LOCKERS.

18 REMOVE AND SALVAGE STORAGE TO ACCOMODATE NEW LAYOUT EQUIPMENT. REFER TO OWNER FOR STORAGE LOCATION.

19 REMOVE AND DISCARD EXISTING UNIT AND PREP FOR NEW UNIT, REFER TO MEP FOR DEMO. PATCH AND REPAIR FLOORING TO MATCH EXISTING. PATCH, REPAIR, AND PAINT WALL TO MATCH EXISTING.

20 REFER TO MEP FOR DEMO. PATCH AND REPAIR.

21 EXISTING CRAWLSPACE OPENING TO REMAIN. SIZE AND LOCATION OF EXISTING CRAWLSPACE ACCESS HATCH TO BE FIELD VERIFIED. DEMOLISH EXISTING HATCH COVER AND PREP FOR NEW.

DEMOLITION FLOOR PLAN LEGEND

EXISTING TO BE REMOVED OR RELOCATED

EXISTING TO REMAIN

NOT IN SCOPE OF WORK

ABATEMENT DEMO NOTES BY SYMBOL

A01 EXISTING CAULKING @ EXTERIOR DOOR TO BE REMOVED. GC TO COORDINATE WITH ABATEMENT CONTRACTOR

A02 EXISTING FLOORING AND BLACK AND YELLOW MASTIC TO BE REMOVED. GC TO COORDINATE WITH ABATEMENT CONTRACTOR

A03 ALTERNATE: EXISTING PIPES WITH THERMAL SYSTEM INSULATION TO BE REMOVED. GC TO COORDINATE WITH ABATEMENT CONTRACTOR. LOCATION IN CRAWL SPACE

A04 EXISTING CERAMIC TILE AND GROUT MORTAR TO BE REMOVED. GC TO COORDINATE WITH ABATEMENT CONTRACTOR

A05 EXISTING WHITE PAINT ON CMU WALL TO BE REMOVED. GC TO COORDINATE WITH ABATEMENT CONTRACTOR

A06 EXISTING ACM EXTERIOR CEMENT PANEL SOFFIT TO BE REMOVED. GC TO COORDINATE WITH ABATEMENT CONTRACTOR

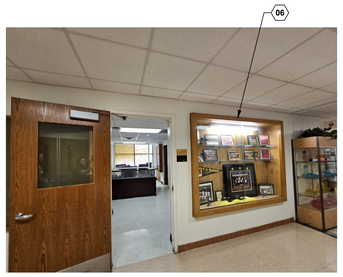
A07 EXISTING INSULATED PIPES WITH WHITE MASTIC TO BE REMOVED. GC TO COORDINATE WITH ABATEMENT CONTRACTOR



6 PHOTO DETAIL
Scale: 1" = 10'-0"



5 PHOTO DETAIL
Scale: N.T.S.



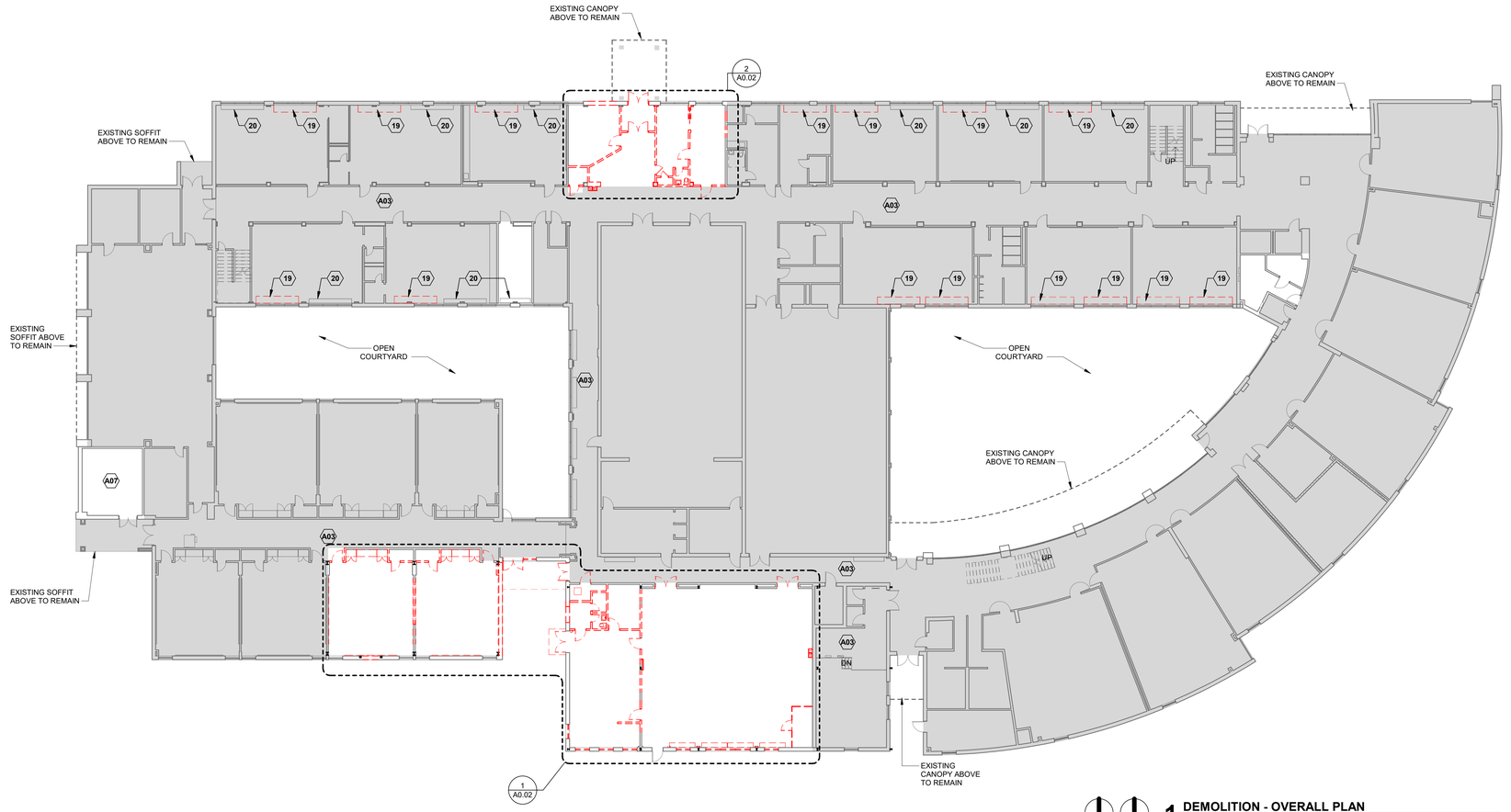
4 PHOTO DETAIL
Scale: 1" = 10'-0"



3 PHOTO DETAIL
Scale: N.T.S.



2 PHOTO DETAIL
Scale: 1" = 10'-0"



TRUE NORTH PLAN NORTH

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

KEY PLAN



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

11/16/25

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

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OVERALL DEMOLITION PLAN

DRAWING RECORD

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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.
- REMOVE ALL EXISTING TACK BOARDS, TACK STRIPS AND ROOM SIGNAGE THROUGHOUT.
- 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.
- REFER TO MEP FOR DEMO
- 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 THEROUTE 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. RESPONSIBLE TO REPLACE ANY CEILING TILES DAMAGED DURING CONTRACTORS WORK WITH LIKE CEILING TILES.
- GAPS LEFT IN EXISTING AND SURROUNDING FINISHES DUE TO SIZE OR LOCATION DIFFERENCE BETWEEN THE DEMOLISHED (REMOVED) AND NEW MATERIALS & EQUIPMENT SHALL BE PATCHED WITH LIKE MATERIAL TO MATCH ADJACENT NEW AND/ OR EXISTING MATERIALS & EQUIPMENT INSTALLED. ASSUME A MINIMUM OF 1'-0" DISTANCE AROUND ITEM BEING REPLACED THAT MAY REQUIRE REPLACEMENT. THIS REFERS TO, BUT NOT LIMITED TO BOTH INTERIOR AND EXTERIOR SURFACES, WALLS, FLOORS, CEILINGS, EQUIPMENT AND FINISHES. THIS APPLIES TO ALL TRADES ASSOCIATED WITH THE SCOPE OF WORK DEFINED IN THE CONSTRUCTION CONTRACT DOCUMENTS, ANY ITEM OR EQUIPMENT THAT IS REMOVED TO ALLOW DEFINED SCOPE OF WORK TO BE PREFORMED IS TO BE REPLACED ONCE SURROUNDING WORK IS COMPLETED. IF AN EXISTING ITEM IS REMOVED, THE SURROUNDING SURFACES, WALLS, FLOORS, CEILINGS, EQUIPMENT AND FINISHES THAT ARE REMAINING ARE TO PATCHED WITH LIKE MATERIAL TO MATCH ADJACENT NEW AND/ OR EXISTING FINISHES.
- GC TO REMOVE ALL ROOM NUMBER SIGNAGE, DOOR SIGNAGE, HANGING SIGNAGE AND PREPARE FOR NEW.
- GC TO PROTECT ALL EXISTING PIPES DURING DEMOLITION.

GENERAL ABATEMENT NOTES

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

DEMO NOTES BY SYMBOL

01 REMOVE AND DISCARD PORTION OF EXISTING WALL CONSTRUCTION. PREP OPENING TO RECEIVE NEW STOREFRONT WINDOW REF. TO A6.01 FOR WINDOW TYPE

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- EXISTING TO REMAIN
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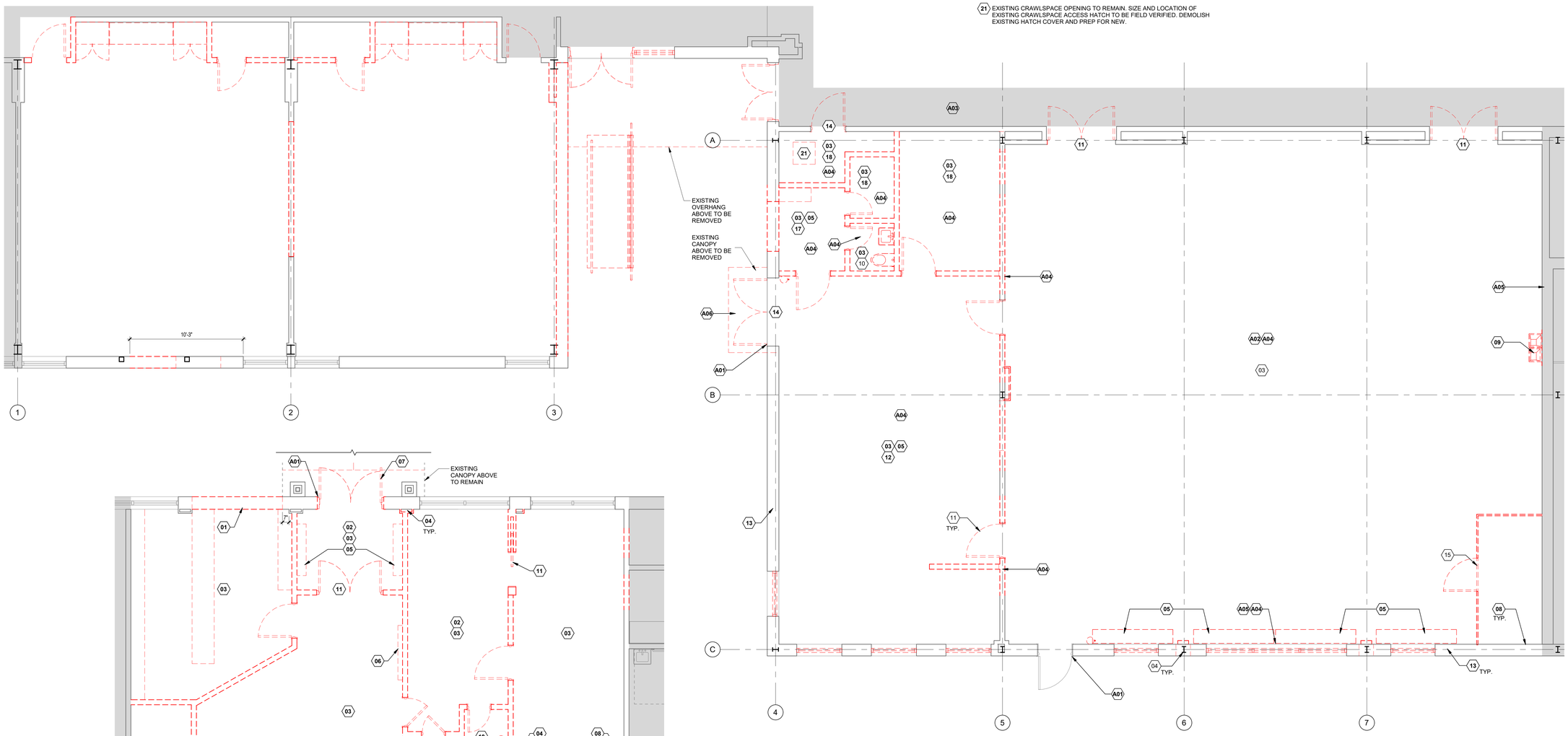
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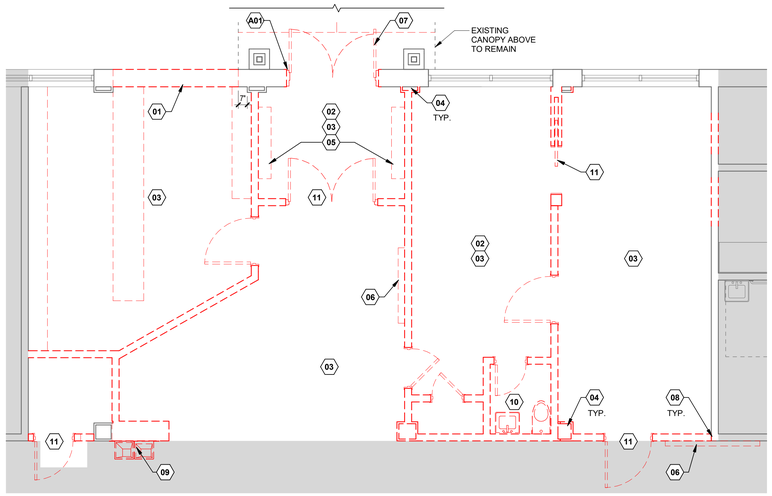
KEY PLAN





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

TRUE NORTH PLAN NORTH



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

TRUE NORTH PLAN NORTH

ALLIANCE ARCHITECTS
1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
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ENLARGED DEMOLITION PLANS

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- 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 THEROUTE OF TRAVEL EITHER ON SITE OR AFTER LEAVING THE SITE.
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- 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. RESPONSIBLE TO REPLACE ANY CEILING TILES DAMAGED DURING CONTRACTORS WORK WITH LIKE CEILING TILES.
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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.
- THE GENERAL CONTRACTOR TO EMPTY EXISTING GREASE INTERCEPTOR, SAMPLE WELL, ASSOCIATED GREASE WASTE PIPING AND SIMILAR EQUIPMENT BEFORE DEMO. GENERAL CONTRACTOR TO PROVIDE A TURN KEY PROPOSAL FOR GREASE EXTRACTION SERVICES.

DEMOLITION REFLECTED CEILING PLAN LEGEND

- EXIST. TO BE REMOVED OR RELOCATED
- EXIST. TO REMAIN
- EXIST. STRUCTURAL BEAM
- EXISTING RECESSED FIXTURE TO BE REMOVED AND SALVAGED FOR REUSE. REFER TO OWNER FOR STORAGE LOCATION.
- 1'x4' RECESSED FLUORESCENT FIXTURE TO BE REMOVED AND SALVAGED FOR REUSE. REFER TO OWNER FOR STORAGE LOCATION.
- 2'x4' RECESSED FLUORESCENT FIXTURE TO BE REMOVED AND SALVAGED FOR REUSE. REFER TO OWNER FOR STORAGE LOCATION.
- EXISTING 2'X2' ACOUSTICAL LAY-IN CEILING TO BE REMOVED.

DEMOLITION RCP NOTES

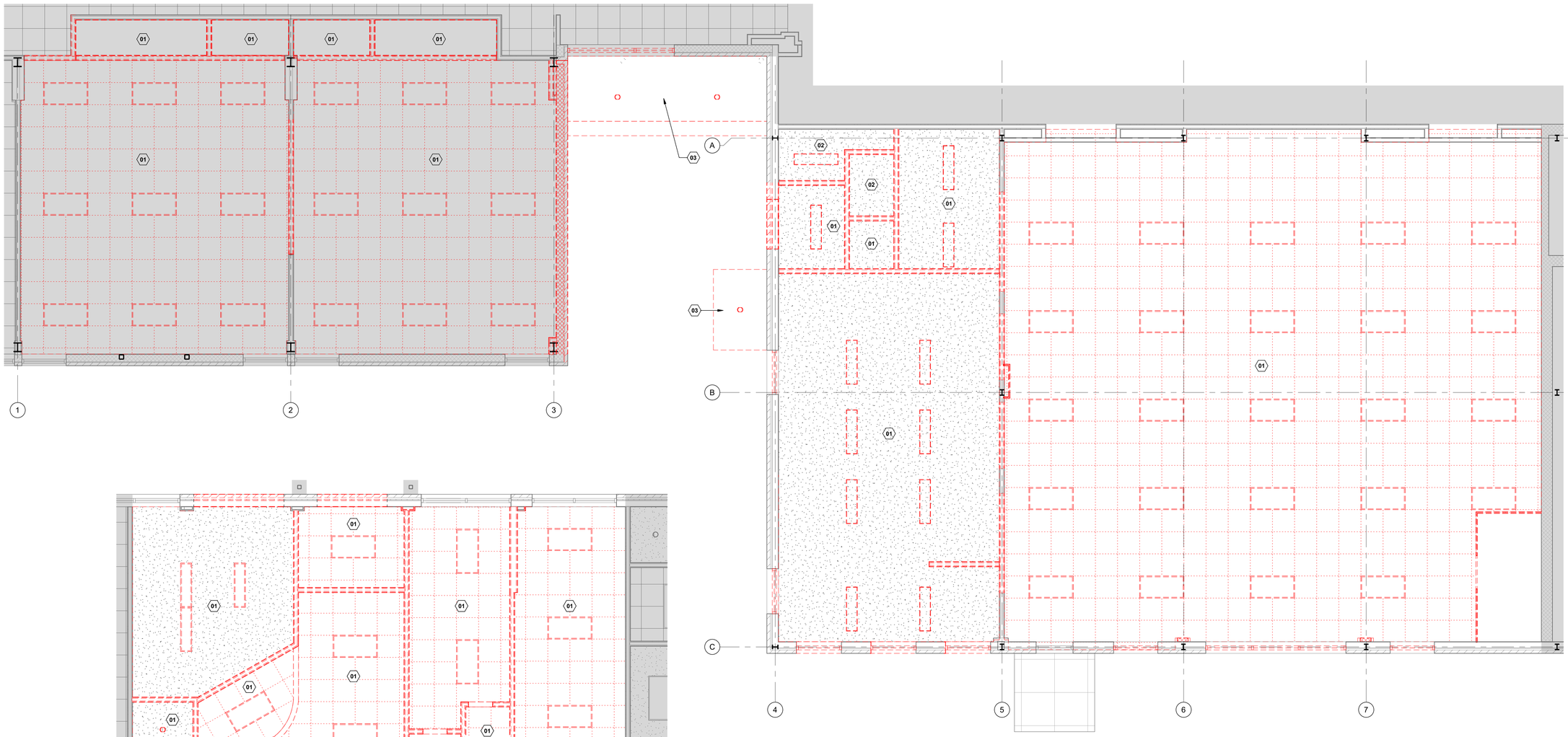
01 REMOVE EXISTING GRID, TILES, & LIGHT FIXTURES

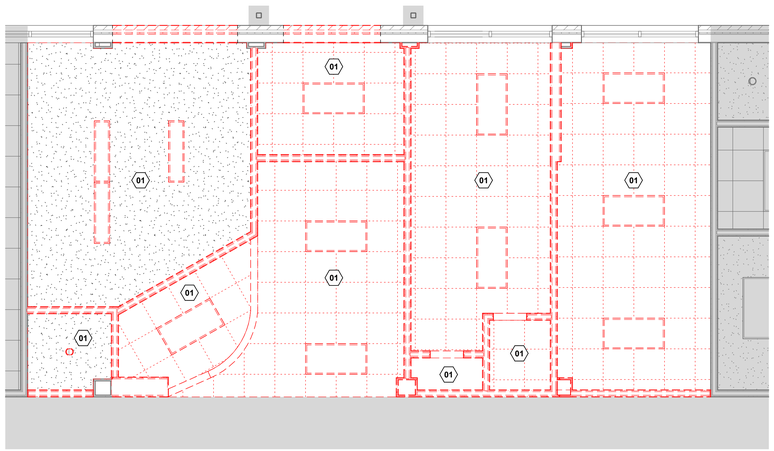
02 EXISTING GYP CEILING TO REMAIN; REMOVE LIGHT FIXTURES

03 EXISTING CANOPY TO BE REMOVED

KEY PLAN







TRUE NORTH PLAN NORTH

2 ENLARGED DEMO RCP - VESTIBULE
Scale: 1/4" = 1'-0"

TRUE NORTH PLAN NORTH

1 ENLARGED DEMO RCP - KITCHEN & CAFETERIA
Scale: 1/4" = 1'-0"

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11/16/25

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ENLARGED DEMOLITION RCP

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

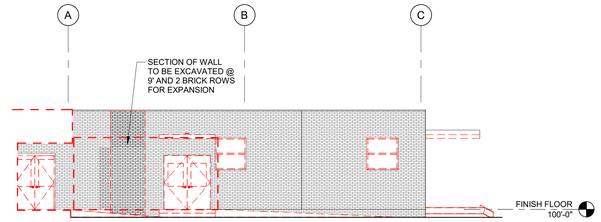
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PROJECT NO.: 2022200

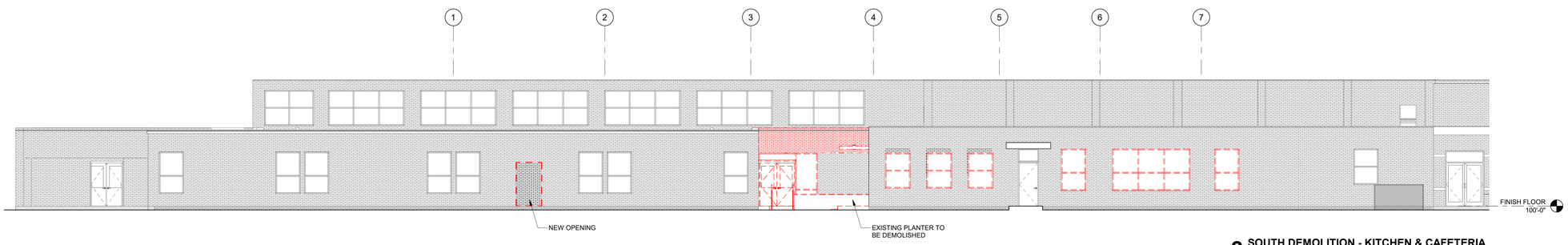
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DEMOLITION ELEVATION LEGEND

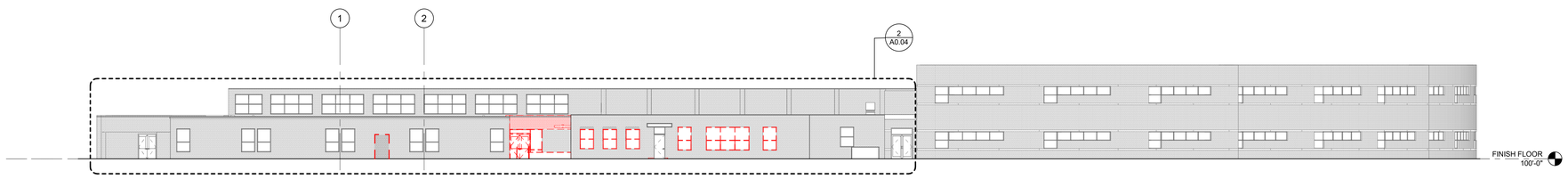
- EXISTING TO BE REMOVED OR RELOCATED
- EXISTING TO REMAIN
- NOT IN SCOPE OF WORK



3 WEST DEMOLITION - KITCHEN & CAFETERIA
Scale: 1/8" = 1'-0"



2 SOUTH DEMOLITION - KITCHEN & CAFETERIA
Scale: 1/8" = 1'-0"



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

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DEMOLITION - EXTERIOR BUILDING ELEVATIONS

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

A0.04

PROJECT NO.: 2022200

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SITE DATA SUMMARY

CURRENT USE:	PUBLIC SCHOOL
CURRENT TOTAL LOT AREA:	9.93 ACRES (432,613 SQUARE FEET)
CURRENT FLOOR AREA:	82,340 SQUARE FEET
MAXIMUM ALLOWABLE LOT COVERAGE:	25%
ACTUAL LOT COVERAGE:	17% (WITH ADDITION)
TOTAL NUMBER OF EXISTING CLASSROOMS:	45
PARKING REQUIRED:	68 VEHICLES, INCLUDING (X) ACCESSIBLE SPACES
PARKING PROVIDED:	79 VEHICLES, INCLUDING (4) ACCESSIBLE SPACES
PARKING RATIO:	1.5 SPACES PER CLASSROOM
MAXIMUM ALLOWABLE FLOOR AREA:	114,250 SQUARE FEET
CURRENT FLOOR AREA:	81,836 SQUARE FEET
PROPOSED FLOOR AREA:	504 SQUARE FEET
TOTAL FLOOR AREA:	82,340 SQUARE FEET

FOR PD REFERENCE, REFER TO PD840

GENERAL PROJECT NOTES

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SITE PLAN LEGEND

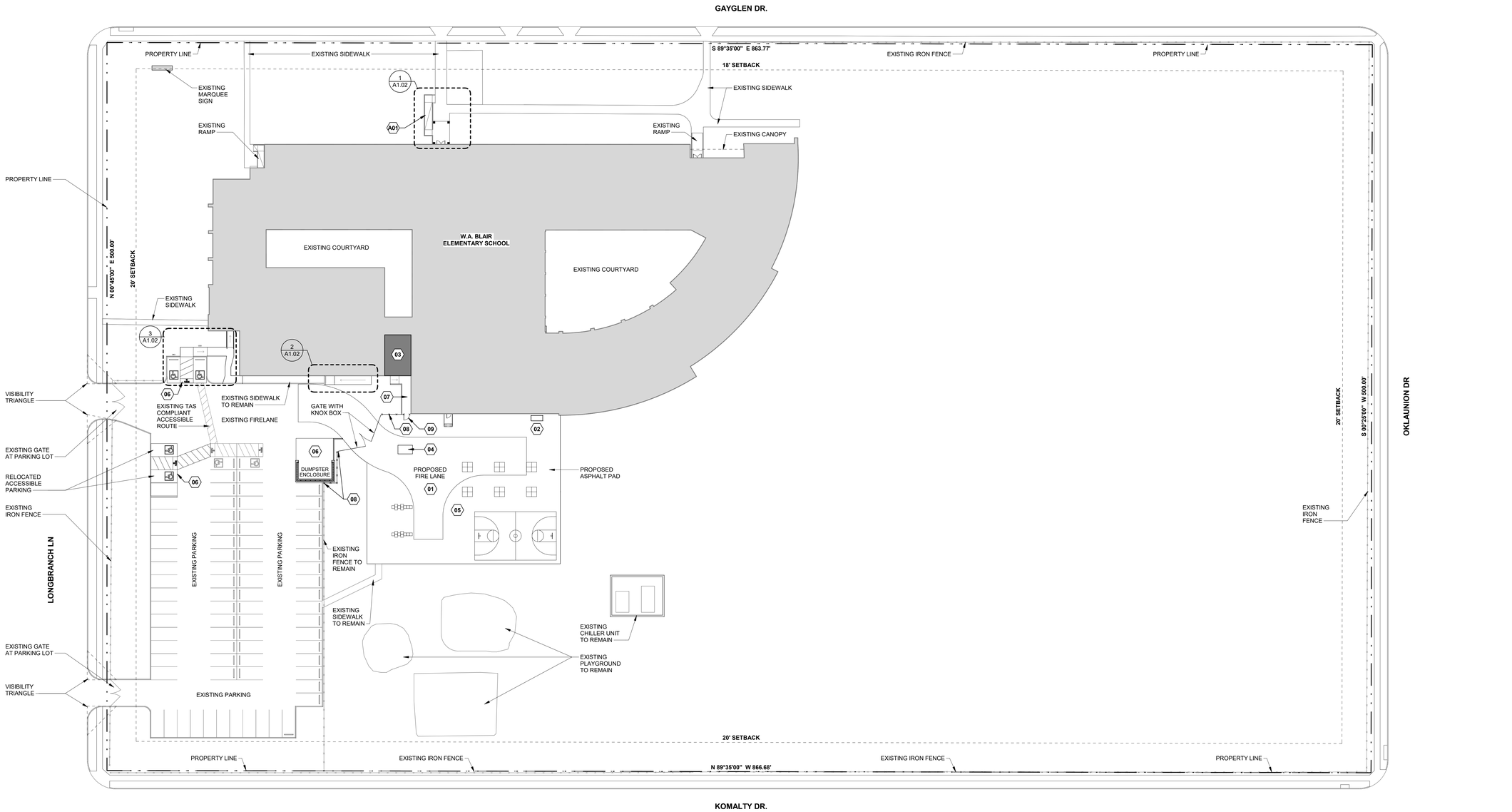
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION

SITE PLAN NOTES

01 PROVIDE AND INSTALL NEW FIRE LANE. REFER TO CIVIL
02 EXISTING GAS METER AND CHAIN FENCING TO REMAIN.
03 CAFETERIA / KITCHEN EXPANSION
04 LOCATION OF NEW GREASE TRAP, REFER TO MEP
05 NEW PAVEMENT AND PLAYGROUND STRIPING, REF. CIVIL
06 NEW CONCRETE, REF. CIVIL
07 NEW SIDEWALK, REF. CIVIL
08 NEW IRON FENCE TO MATCH EXISTING
09 PROVIDE AND INSTALL NEW IRON FENCE DOOR TO MATCH EXISTING

ALTERNATE SITE PLAN NOTES

A01 PREP AND INSTALL NEW RAMP PER ADA REQUIREMENTS. REFER CIVIL.



TRUE NORTH / PLAN NORTH

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

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SITE PLAN

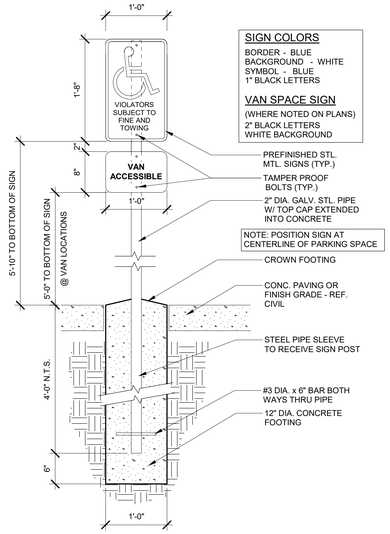
DRAWING RECORD

DATE	DESCRIPTION
09/09/25	CITY COMMENTS 01
10/16/25	CITY COMMENTS 02

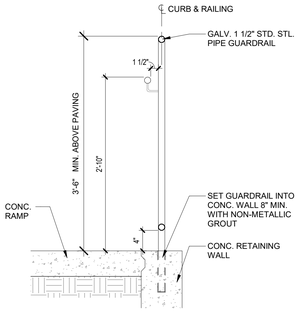
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PROJECT NO.: 2022200

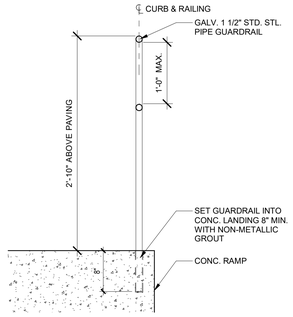
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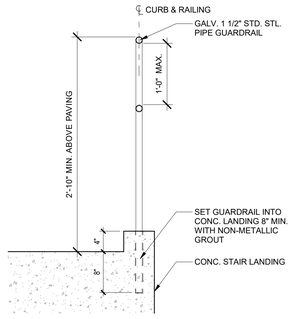
11 ACCESSIBLE PARKING SIGN
Scale: 1" = 1'-0"



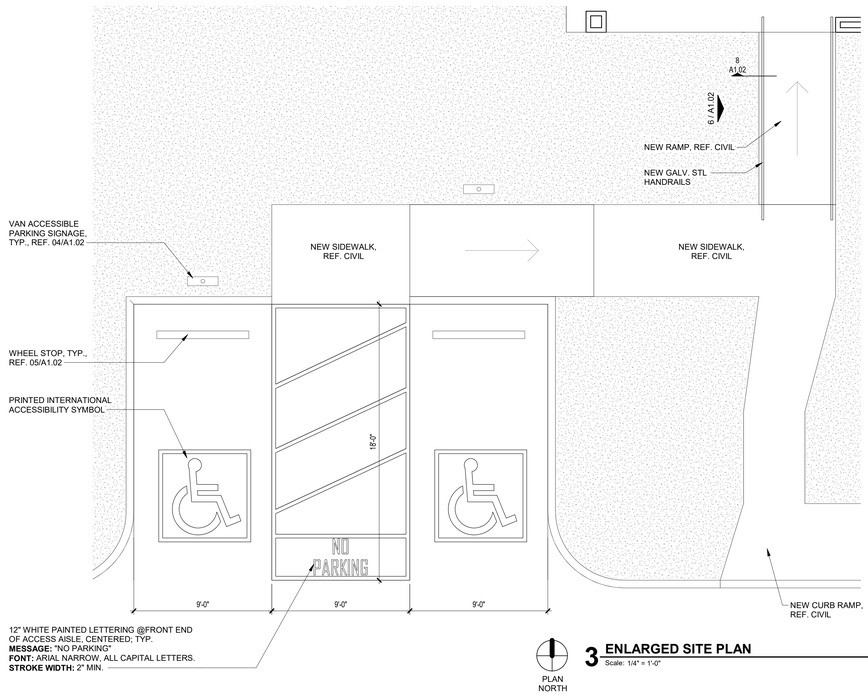
9 ALTERNATE: HANDRAIL
Scale: 1" = 1'-0"



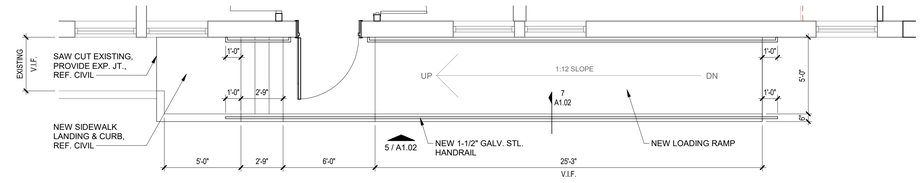
8 HANDRAIL WITHOUT CURB
Scale: 1" = 1'-0"



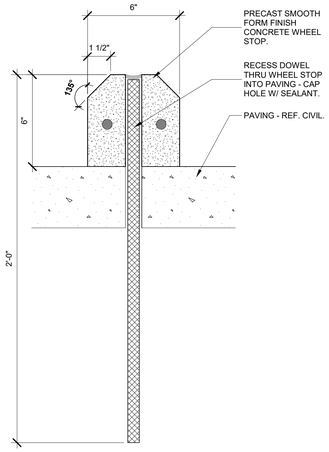
7 HANDRAIL WITH CURB
Scale: 1" = 1'-0"



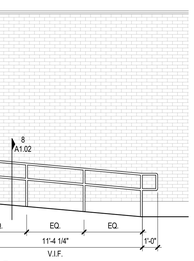
3 ENLARGED SITE PLAN
Scale: 1/4" = 1'-0"



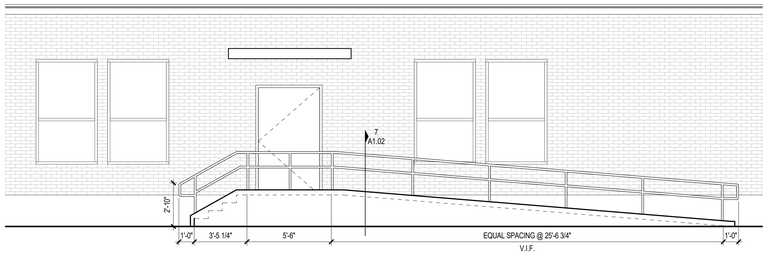
2 ENLARGED DELIVERY ENTRANCE
Scale: 1/4" = 1'-0"



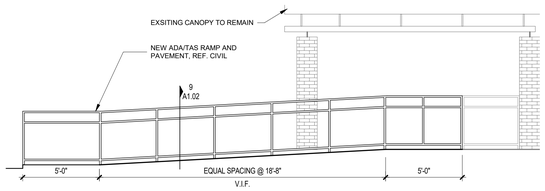
10 WHEEL STOP DETAIL
Scale: 3" = 1'-0"



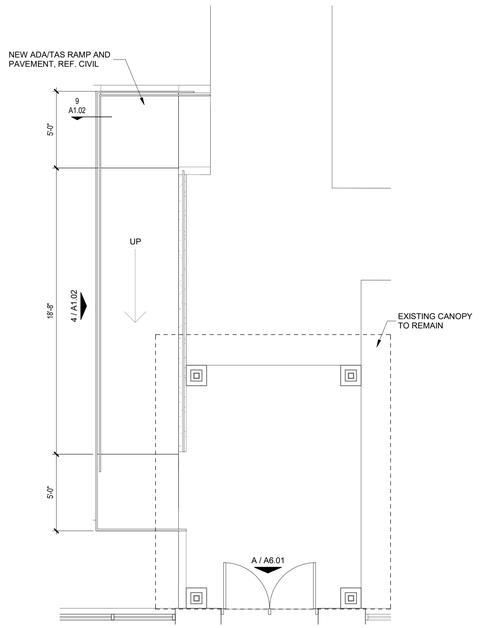
6 RAMP @ PORTICO
Scale: 1/4" = 1'-0"



5 DELIVERY ENTRANCE RAMP
Scale: 1/4" = 1'-0"



4 ALTERNATE: FRONT ENTRANCE RAMP
Scale: 1/4" = 1'-0"



1 ALTERNATE: ENLARGED FRONT ENTRANCE
Scale: 1/4" = 1'-0"

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STATE OF TEXAS

11/16/25

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ORG 109 DISD Blair Elementary

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SITE DETAILS

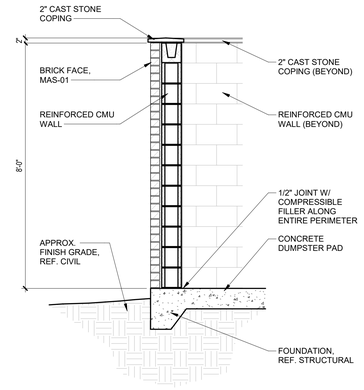
DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

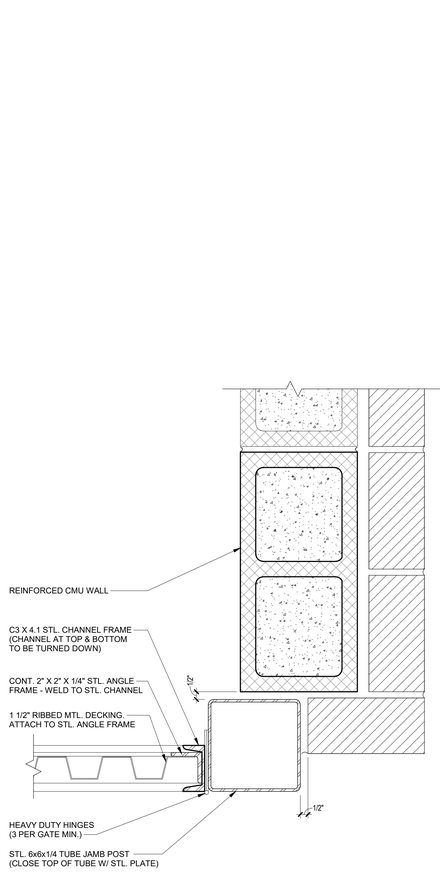
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PROJECT NO.: 2022200

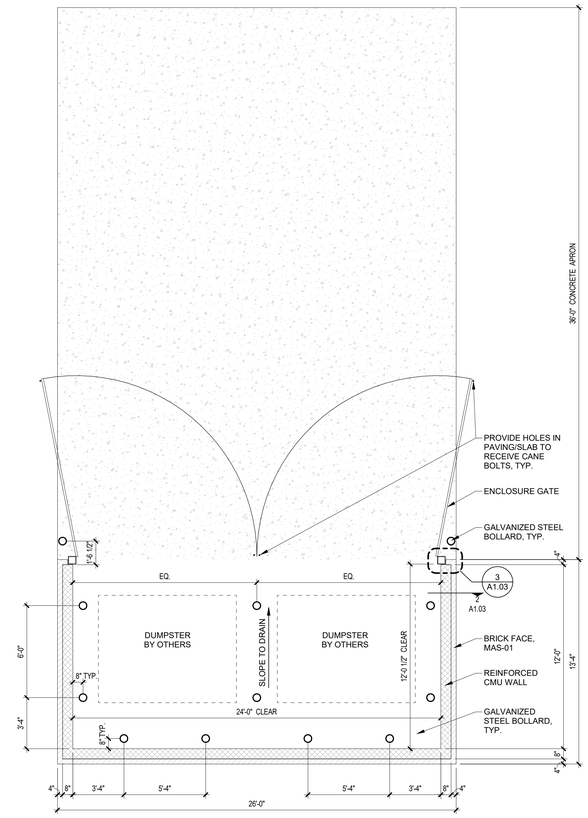
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2 DUMPSTER - SECTION
Scale: 1/2" = 1'-0"



3 DUMPSTER - DETAIL01
Scale: 3" = 1'-0"



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

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DUMPSTER DETAILS

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

A1.03

PROJECT NO.: 2022200

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FLOOR PLAN LEGEND

- EXIST. TO REMAIN
- NEW CONSTRUCTION
- XXXX — PARTITION TYPE SYMBOL
- F.E.C. — RECESSED FIRE EXTINGUISHER CABINET
- F.E.C. — SURFACE MOUNTED FIRE EXTINGUISHER CABINET
- F.E. — BRACKET MOUNTED FIRE EXTINGUISHER
- CR — CARD READER
- DC — DOOR CONTACTS

NOTES BY SYMBOL

01 REMOVE EXISTING SEALANT AT MASONRY JOINTS AND EXTERIOR WINDOWS. PATCH AND REPAIR. PREPARE TO RECEIVE NEW SEALANT JOINT. GENERAL CONTRACTOR TO POWERWASH 'LOW-LEVEL' EXISTING MASONRY FACADES THAT CONTAIN MILDEW.

02 PERFORM MILD DETERGENT MEDIUM PRESSURE WASH ON STAINED OR MILDEWED FACADE. PROTECT SEALANT AT JOINTS. EQUIPMENT ON INTERIOR SIDE OF LOUVERS, SURFACE MOUNTED DEVICES AND/OR EQUIPMENT ON EXTERIOR OF BUILDING. INCLUDE CLEANING WALL BEHIND DOWNSPOUTS. PERFORM TEST WASH ON AN AREA APPROX. 4'X4' AND REVIEW/APPROVE BY ARCHITECT AND DISD REPRESENTATIVE PRIOR TO PERFORMING FULL WASH.

03 PATCH AND REPAIR ANY DAMAGED BRICK.

04 NEW WINDOWS TO RECEIVE WINDOW SCREENS. MATCH EXISTING.

05 PROVIDE AND INSTALL UPDATED SECURITY HARDWARE, REF. TO DOOR HARDWARE SCHEDULE.

KEY PLAN





TRUE NORTH PLAN NORTH

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

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OVERALL FLOOR PLAN

DRAWING RECORD	
DATE	DESCRIPTION
07/02/25	95% CD - FINAL
11/16/25	100% CD - ISSUE FOR BID

A2.01

PROJECT NO.: 2022200

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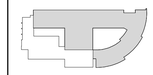
FLOOR PLAN LEGEND

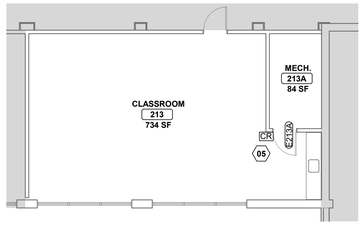
- EXIST. TO REMAIN
- NEW CONSTRUCTION
- XXXX — PARTITION TYPE SYMBOL
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- F.E.C. — SURFACE MOUNTED FIRE EXTINGUISHER CABINET
- F.E. — BRACKET MOUNTED FIRE EXTINGUISHER
- CR — CARD READER
- DC — DOOR CONTACTS

NOTES BY SYMBOL

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03. PATCH AND REPAIR ANY DAMAGED BRICK.
04. NEW WINDOWS TO RECEIVE WINDOW SCREENS. MATCH EXISTING.
05. PROVIDE AND INSTALL UPDATED SECURITY HARDWARE, REF. TO DOOR HARDWARE SCHEDULE.

KEY PLAN





TRUE NORTH / PLAN NORTH

2 ENLARGED SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"



TRUE NORTH / PLAN NORTH

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

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OVERALL SECOND FLOOR

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

A2.02

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NOTES BY SYMBOL

01 PROVIDE SECURITY UPDATES INCLUDING CAMERAS, CARD ACCESS READERS AND DOOR CONTACTS
02 PROVIDE SECURE FRONT VESTIBULE
03 REPLACE EXTERIOR WATERPROOFING SEALANT JOINTS
04 PATCH AND REPAIR ALL AREAS AFFECTED BY NEW SCOPE OF WORK
05 PREP WALL FOR GRAPHIC INSTALL.
06 NEW MAILROOM FURNITURE, TO BE PART OF FF&E PACKAGE. COORDINATE PRODUCT INFORMATION WITH PRINCIPAL.
07 EXPANSION JOINT
08 PROVIDE AND INSTALL NEW CLERESTORY STOREFRONT GLAZING
09 SEMI-RECESSED ANNUNCIATOR. REFER MEP.
10 LOCKBOX AND RECESSED FIRE PANEL, REFER MEP.
11 PROVIDE ONE (1) LAYER OF FULL-HEIGHT GYP BD. ONTO EXISTING WALL. PREP TO RECEIVE NEW PAINT FINISH AND WALL BASE. GC TO CONFIRM IF PONY WALL IS REQUIRED.
12 PREP DOOR FOR RESTAINING AND TO RECEIVE NEW HARDWARE.
13 REMOVE FLOOR HATCH COVER AND REPLACE WITH NEW WITH FLUSH HATCH PULL. NEW HATCH COVER TO BE APPROVED BY ARCHITECT.
14 SALVAGED WALL-MOUNTED DISPLAY CASE

GENERAL PROJECT NOTES

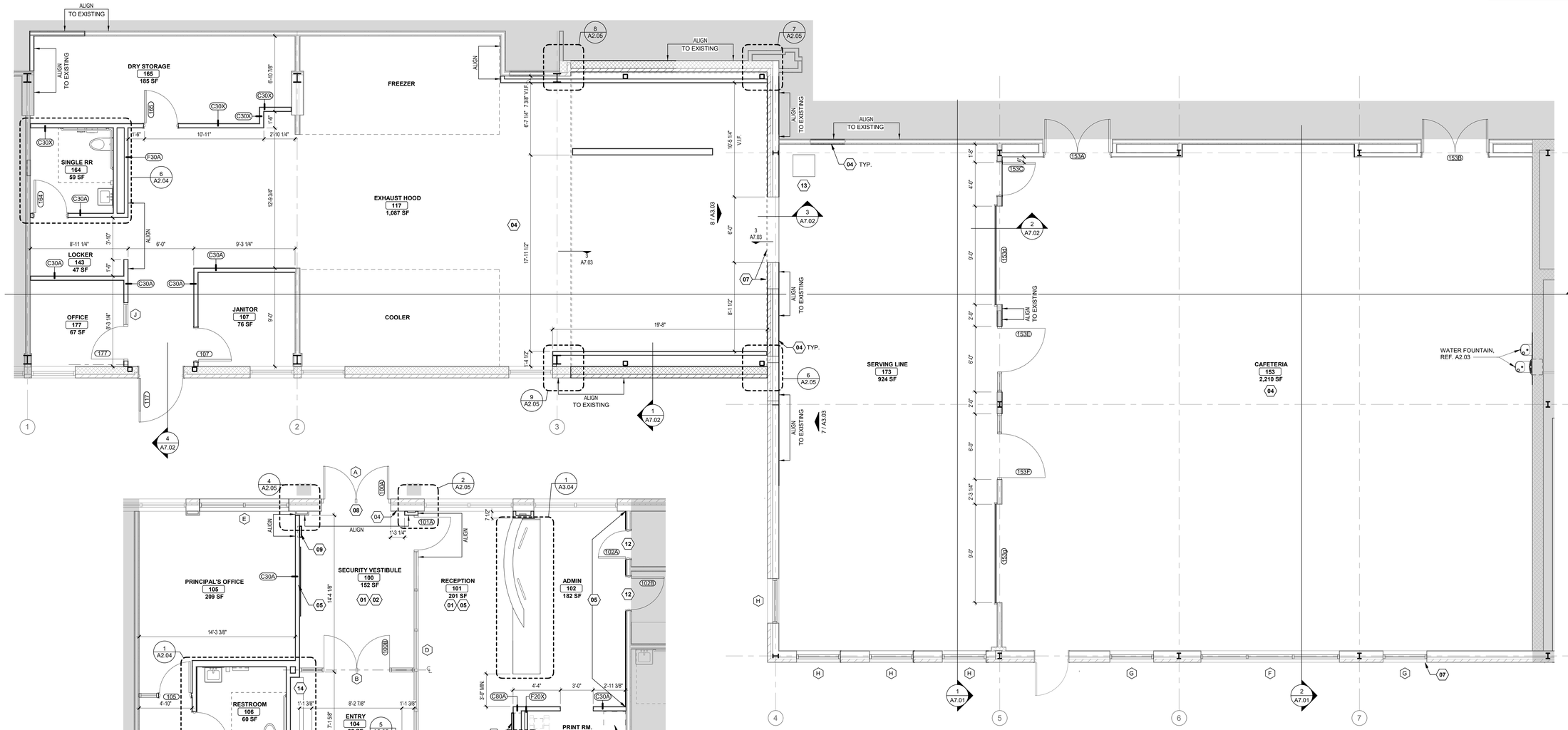
- "GENERAL CONTRACTOR IS TO AUDIT ALL EXISTING SYSTEMS BEFORE THE WORK IS STARTED TO VERIFY WORKING AND/OR NON-WORKING COMPONENTS. THE SYSTEMS INCLUDED ARE FIRE SPRINKLER, FIRE ALARM, PA, SECURITY,SECURITY SENSORS, HVAC, CONTROLS, ETC. CONTRACTOR IS TO AUDIT THESE SYSTEMS AND PROVIDE A WRITTEN REPORT 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.
- THE GENERAL CONTRACTOR TO EMPTY EXISTING GREASE INTERCEPTOR, SAMPLE WELL, ASSOCIATED GREASE WASTE PIPING AND SIMILAR EQUIPMENT BEFORE DEMO. GENERAL CONTRACTOR TO PROVIDE A TURN KEY PROPOSAL FOR GREASE EXTRACTION SERVICES.

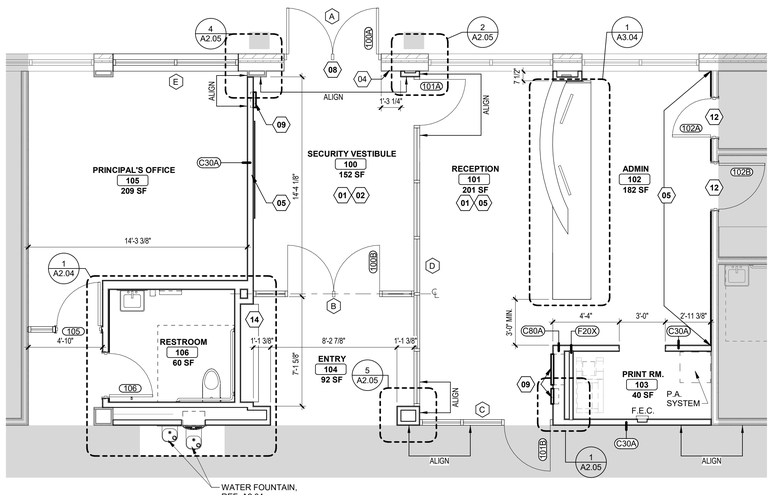
FLOOR PLAN LEGEND

- EXIST. TO REMAIN
- NEW CONSTRUCTION
- XXXX — PARTITION TYPE SYMBOL
- F.E.C. — RECESSED FIRE EXTINGUISHER CABINET
- F.E.C. — SURFACE MOUNTED FIRE EXTINGUISHER CABINET
- F.E. — BRACKET MOUNTED FIRE EXTINGUISHER
- CR — CARD READER
- DC — DOOR CONTACTS

KEY PLAN







TRUE NORTH PLAN NORTH

2 ENLARGED PLAN 'B' - VESTIBULE
Scale: 1/4" = 1'-0"

TRUE NORTH PLAN NORTH

1 ENLARGED PLAN 'A' - CAFETERIA & KITCHEN
Scale: 1/4" = 1'-0"

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ENLARGED FLOOR PLANS

DRAWING RECORD

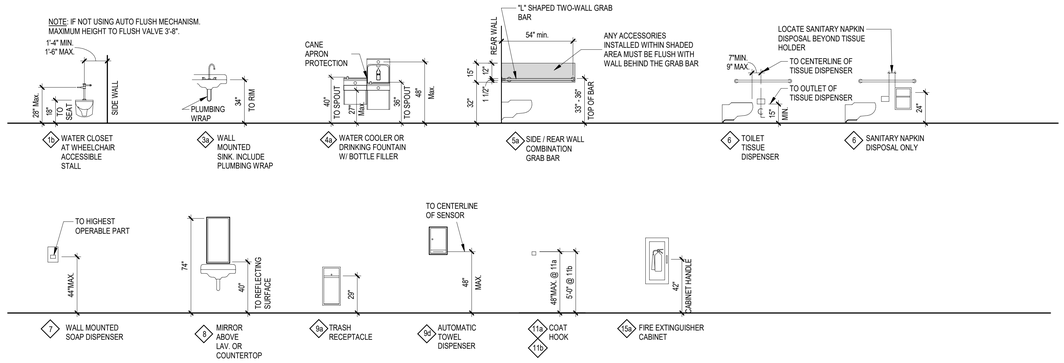
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11/16/25	100% CD - ISSUE FOR BID

A2.03

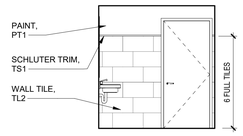
PROJECT NO.: 2022200

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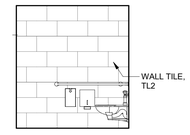
ACCESSORIES & EQUIPMENT MOUNTING HEIGHTS (ADULT)



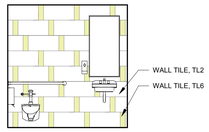
ACCESSORIES & EQUIPMENT			
TYPE MARK	MANUFACTURER	MODEL	DESCRIPTION
	BOBRICK	B-6806 x 42	GRAB BAR 36"L - 1-1/2" DIAMETER STAINLESS STEEL W/ SNAP FLANGE
1b	REFER TO MEP	REFER TO MEP	ADA WALL MOUNTED TOILET - REFERENCE DALLAS ISD SPECIFICATIONS
3a	REFER TO MEP	REFER TO MEP	WALL MOUNTED ADA SINK
4a	Elkay Manufacturing	LZWS-EDFP217K	DRINKING FOUNTAIN WITH BOTTLE FILLER
5a	BOBRICK	150 SERIES	1 1/2" DIA. GRAB BAR(S) - REFERENCE DALLAS ISD SPECIFICATIONS - GAMCO 150 SERIES OR APPROVED EQUAL
5b	BOBRICK	B-6806 x 42	GRAB BAR 42"L - 1-1/2" DIAMETER STAINLESS STEEL W/ SNAP FLANGE
6	GAMCO	ND-1	SANITARY NAPKIN DISPOSAL - GAMCO ND1 OR APPROVED EQUAL.
6e	OWNER PROVIDED	OWNER PROVIDED	TOILET TISSUE HOLDER - PROVIDED BY DALLAS ISD, INSTALLED BY CONTRACTOR.
7b	OWNER PROVIDED	OWNER PROVIDED	SOAP DISPENSER - PROVIDED BY DALLAS ISD, INSTALLED BY CONTRACTOR
8b	GAMCO	'A' SERIES, 1/4" TEMPERED	MIRROR - GAMCO 'A' SERIES 1/4" TEMPERED OR EQUAL
9a	BOBRICK	B-35643	RECESSED WASTE RECEPTACLE
9d	OWNER PROVIDED	OWNER PROVIDED	PAPER TOWEL DISPENSER AND TRASH RECEPTACLE - PROVIDED BY DALLAS ISD, INSTALLED BY CONTRACTOR
11a	BOBRICK	B-2116	COAT HOOK - BOBRICK B-2116 OR APPROVED EQUAL
15a	LARSEN	2409-R7	SEMI-RECESSED FIRE EXTINGUISHER CABINET



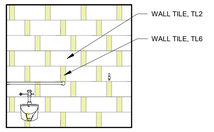
10 RESTROOM INT. ELEVATION
Scale: 1/4" = 1'-0"



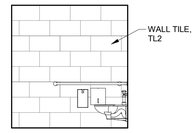
5 RESTROOM INT. ELEVATION
Scale: 1/4" = 1'-0"



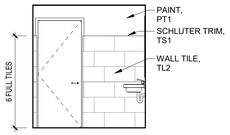
9 RESTROOM INT. ELEVATION
Scale: 1/4" = 1'-0"



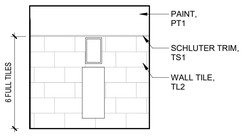
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Scale: 1/4" = 1'-0"



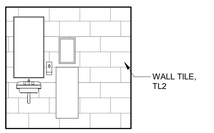
8 RESTROOM INT. ELEVATION
Scale: 1/4" = 1'-0"



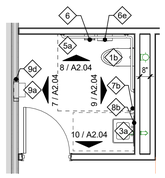
3 RESTROOM INT. ELEVATION
Scale: 1/4" = 1'-0"



7 RESTROOM INT. ELEVATION
Scale: 1/4" = 1'-0"

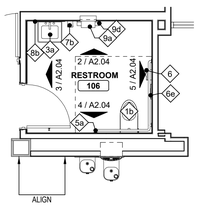


2 RESTROOM INT. ELEVATION
Scale: 1/4" = 1'-0"



PLAN NORTH

6 ENLARGED RESTROOM PLAN 177
Scale: 1/4" = 1'-0"



PLAN NORTH

1 ENLARGED SINGLE RR 106
Scale: 1/4" = 1'-0"

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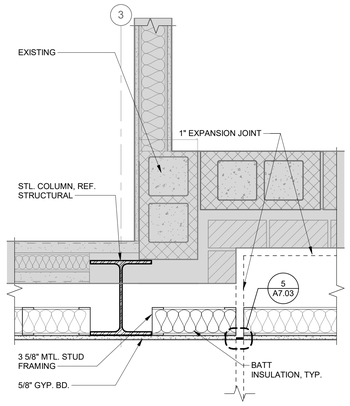
RESTROOM PLANS & INTERIOR ELEVATIONS

DRAWING RECORD	
DATE	DESCRIPTION
07/02/25	95% CD - FINAL
11/16/25	100% CD - ISSUE FOR BID

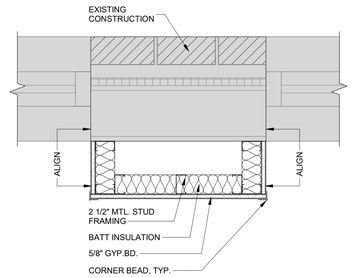
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PROJECT NO.: 2022200

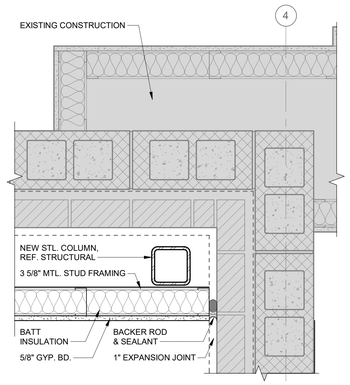
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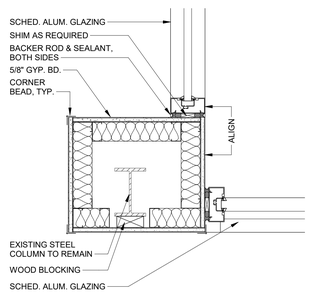
8 KITCHEN BRICK WALL @ EXPANSION JOINT
Scale: 1 1/2" = 1'-0"



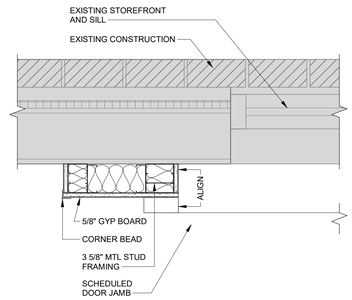
3 NEW COLUMN FURR OUT @ RECEPTION
Scale: 1 1/2" = 1'-0"



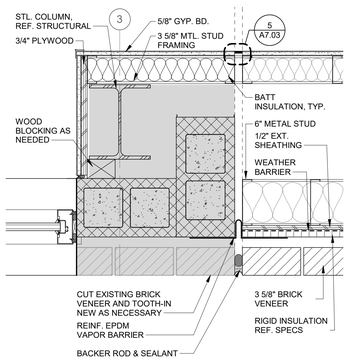
7 KITCHEN BRICK WALL @ EXPANSION JOINT
Scale: 1 1/2" = 1'-0"



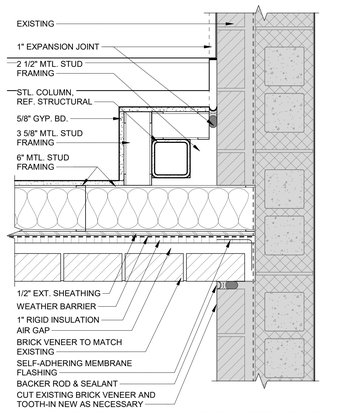
5 NEW RECEPTION STOREFRONT
Scale: 1 1/2" = 1'-0"



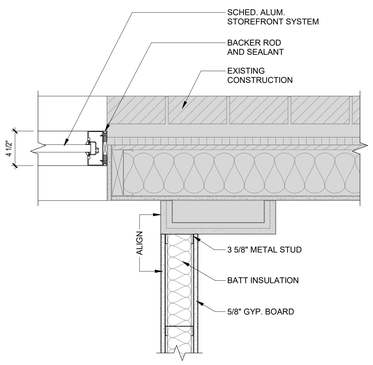
2 NEW ENTRANCE TO RECEPTION
Scale: 1 1/2" = 1'-0"



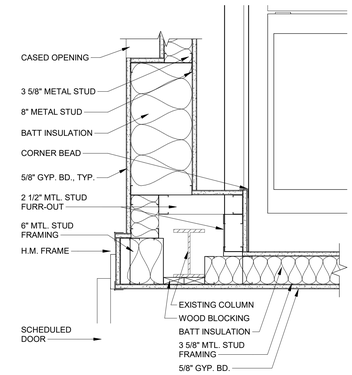
9 KITCHEN BRICK WALL @ EXPANSION JOINT
Scale: 1 1/2" = 1'-0"



6 KITCHEN BRICK WALL @ EXPANSION JOINT
Scale: 1 1/2" = 1'-0"



4 PRINCIPLE'S OFFICE WALL & STOREFRONT
Scale: 1 1/2" = 1'-0"



1 COLUMN @ MAIL ROOM ENTRY
Scale: 1 1/2" = 1'-0"

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DATE	DESCRIPTION
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A2.05

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NOTES TO CONTRACTOR

1. PROVIDE EXPANSION JOINTS AT 50'-0" O.C. MAX WITH ONE DOWNSPOUT BETWEEN ANY TWO GUTTER EXPANSION JOINTS

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

3. 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

4. VERIFY NUMBER & LOCATIONS OF DOWNSPOUTS PER BID DOCUMENTS ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT

5. 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

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

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

8. 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.

9. PROVIDE NEW 20 YEAR NO DOLLAR LIMIT WARRANTED 2-PLY SBS MOD. BIT. ROOFING SYSTEM TO ACHIEVE. MINIMUM INITIAL SRI OF 78 WITH INSULATION VALUE OF R-25 ACROSS THE INSTALLATION. MINIMUM ALLOWABLE SLOPE = 1/4" PER 1'-0".

10. COMPLETE NEW SYSTEM TO INCLUDE, BUT NOT BE LIMITED TO: FASTENERS, TAPERED INSULATION, COVER BOARD, ROLL GOODS, ASPHALT, MASTICS, ADHESIVES, FLASHINGS, COUNTER-FLASHINGS, CURBS, CRICKETS, THRU-WALL FLASHING, TUCK FLASHING, EXPANSION & CONTROL JOINT CURBS & COVERS, GUTTERS, DOWNSPOUTS, SPLASH BLOCKS, WALK PADS, PIPE ROLLERS, CONDUIT SUPPORTS, SEALANT, MISCELLANEOUS SHEET METAL WORK, AND ALL OTHER RELATED ACCESSORIES TYPICAL TO A NEW 2-PLY SBS MOD. BIT. ROOFING SYSTEM.

11. PROVIDE NEW THRU-WALL FLASHING, WEEPS, COUNTER FLASHING, CRICKETS, CURBS, EQUIPMENT SUPPORTS, PIPE ROLLERS, SEALANT & OTHER ACCESSORIES AS REQUIRED TO PROVIDE A COMPLETE ROOF REPLACEMENT.

12. PROVIDE NEW EXPANSION & CONTROL JOINT ASSEMBLIES AS REQUIRED.

13. PROVIDE NEW OVERSIZED CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUT OUTLETS. PLACE ON PROTECTIVE PADS IF ON ROOF SURFACES.

14. PROVIDE NEW 24 GA. PRE-FINISHED SHEET METAL GUTTERS, DOWNSPOUTS & SCUPPERS. WHERE NOTED AS EXISTING STEEL OWNSPOUTS ARE TO REMAIN

15. RAISE ALL EQUIPMENT CURBS THAT DO NOT MEET 12" MIN. FLASHING HT. AS REQUIRED BY DISD PROJECT-COMPLIANT STANDARD. RE: XX/XXXX & XX/XXXX FOR PROJECT-COMPLIANT STANDARD.

16. PROVIDE NEW ALUMINUM WINDOW SYSTEM, NEW LOUVERS, & NEW ACCESS HATCH AT AREAS INDICATED.

17. CLEAN ASPHALT & TAR RESIDUE FROM BUILDING ENVELOPE.

18. ALL ABANDONED UNITS AND EXHAUST FANS TO BE REMOVED WITH DECK INFILLED TO MATCH EXISTING CONSTRUCTION

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

20. WHEN INSTALLING THRU-WALL FLASHING, REMOVE (3) COURSES OF BRICK FOR CORRECT INSTALLATION OF FLASHING. IF THE (3) BRICK COURSE REMOVAL IS MORE THAN 5'-0" WIDE. SUPPORT WILL BE REQUIRED

21. EXISTING STEEL DOWNSPOUTS WILL REMAIN TO BE PATCHED, REPAIRED AND REPAINTED. ENSURE DOWNSPOUT DEBRIS IS CLEARED OUT AND THAT THEY ARE IN WORKING ORDER. NEW PREFINISHED GUTTER TO BE INSTALLED UTILIZING EXIST. STEEL DOWNSPOUTS

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

3. WHERE EXIST. EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKNESS OF THE NEW ROOF SYSTEM WORK SHALL INCLUDE THE REWORK OF ALL CONDUITS & ASSOCIATED WIRING, J-BOX, GAS PIPING, CONDENSATE DRAIN LINES, REFRIGERANT SUPPLY & RETURN LINES & CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF EXIST. REFRIGERANT& REINSTALLATION OF SAID REGRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO PROVIDE A FULLY CHARGED SYSTEM

4. INSTALLED WALKWAY PADS WHERE SHOWN UNDER ALL PIPE SUPPORTS AND AS SPECIFIED

5. ASSURE THAT ALL EXIST. EQUIPMENT & HOODS FIT ONTO NEWLY FLASHED CURBS & OPENINGS

6. REPLACED DAMAGED/CRACKED LIGHTWT. CONCRETE. ASSUME 15% OF CONCRETE WILL NEED TO BE REPLACED FOR BID PURPOSES

GENERAL NOTE - 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

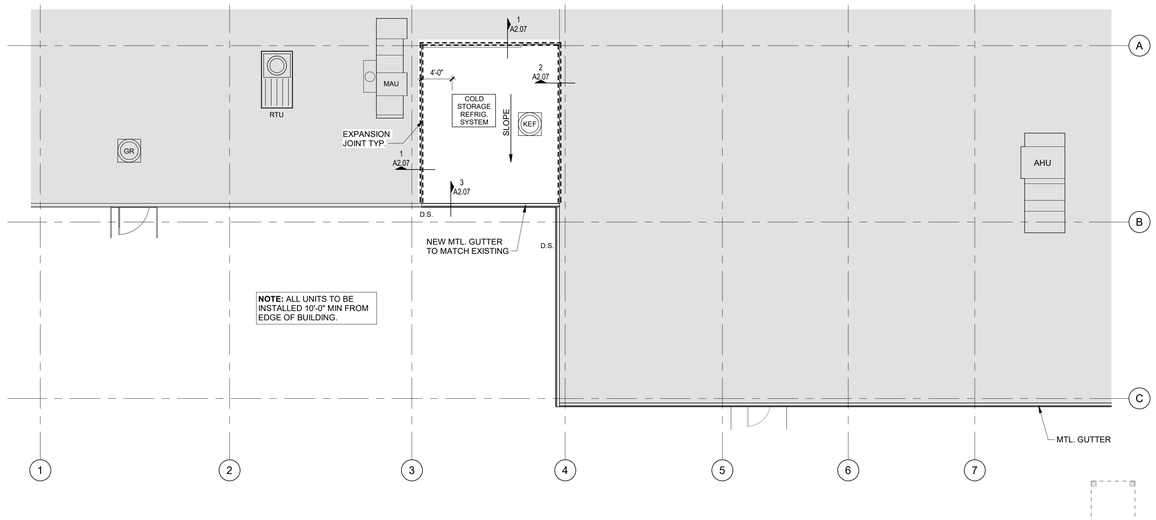
- IF THERE ARE TWO PATCHES WITHIN THE ROLL LENGTH OR WIDTH AND THEY ARE WITHIN REASONABLY CLOSE PROXIMITY TO EACH OTHER THAT ARE TO BE PATCHED AS ONE LARGE PATCH AS OPPOSED TO TWO SMALLER PATCHES. THE REPLACEMENT SECTION WILL BE REQUIRED TO MEET THE STANDARD PER MANUFACTURER'S RECOMMENDATIONS

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
KEF	NEW KITCHEN EXHAUST FAN INSTALLED, RAISE CURBS AS REQUIRED TO ALLOW FOR MIN. 12" FLASHING HT.
GR	EXIST. PLUMBING VENT TO REMAIN, RAISED AS REQUIRED TO ACCOMMODATE NEW ROOF SYSTEM HT. TO ALLOW 12" MIN. FLASHING HT. ABOVE NEW ROOF SURFACE.
VS	EXIST. VENT STACK TO REMAIN, RAISED AS REQUIRED TO ACCOMMODATE NEW ROOF SYSTEM HT. TO ALLOW FOR 12" MIN. FLASHING HT. ABOVE NEW ROOF SURFACE. REFER TO DETAIL 04/A2.07
	EXISTING ROOF HATCH
G	GAS LINE, ALL ACTIVE EXIST. GAS LINES TO REMAIN. GC RAISE TO MIN. HT. TO ABOVE FINISHED ROOF SURFACE
E	ELECTRICITY LINE; ALL ACTIVE EXIST. ELECTRICITY LINES TO REMAIN. G.C. TO RAISE MIN. HT. TO ABOVE FINISHED ROOF SURFACE
C	CONDENSATION LINE; ALL ACTIVE EXIST. CONDENSATION LINES TO REMAIN. G.C. TO RAISE MIN. HT TO ABOVE FINISHED ROOF SURFACE
EJ	EXIST. EXP. JOINT. REFER TO DETAIL 01/A2.07
	NOT IN SCOPE

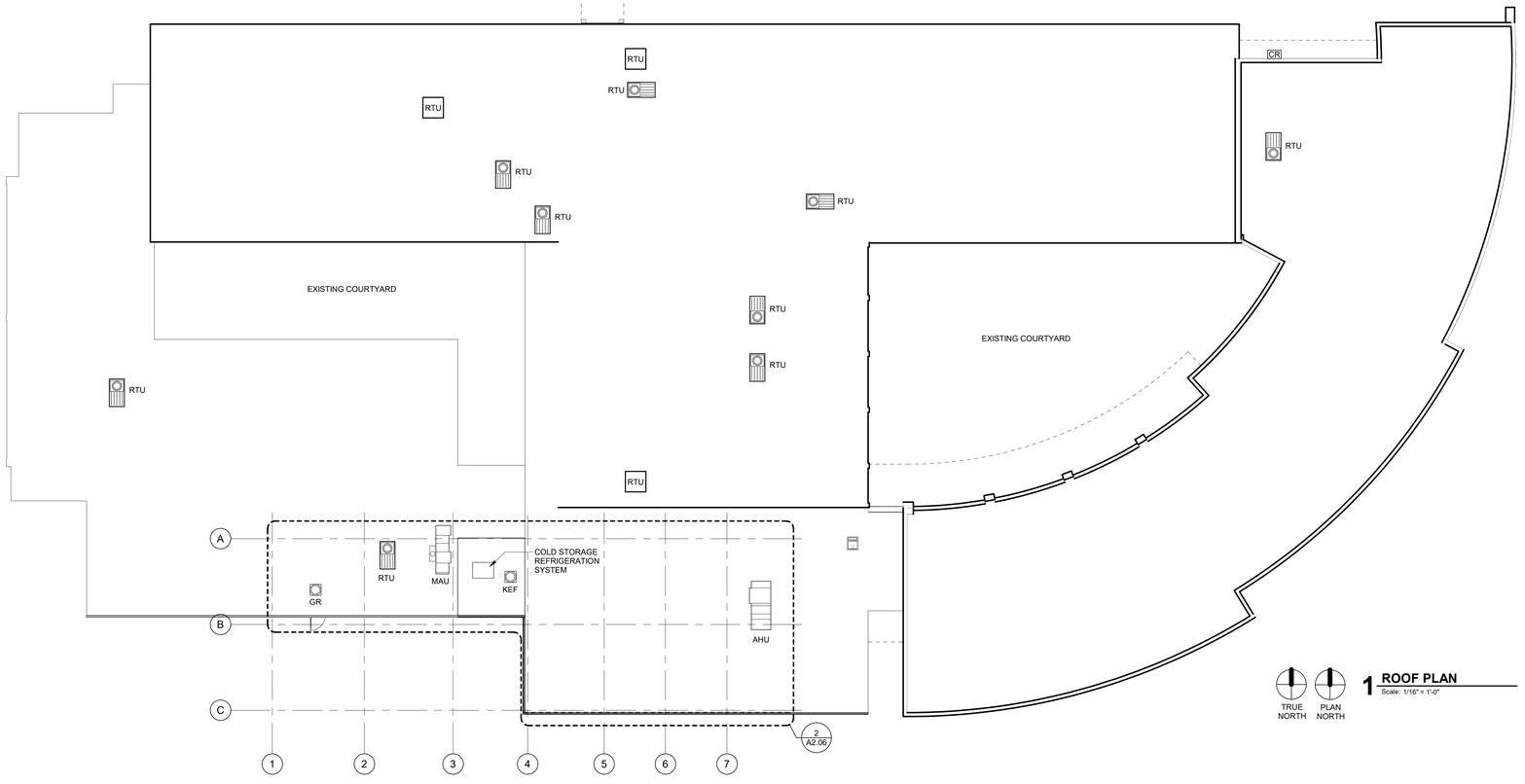
KEY PLAN





PLAN NORTH

2 ENLARGED ROOF PLAN
Scale: 1/8" = 1'-0"



TRUE NORTH
PLAN NORTH

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

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ROOF PLAN

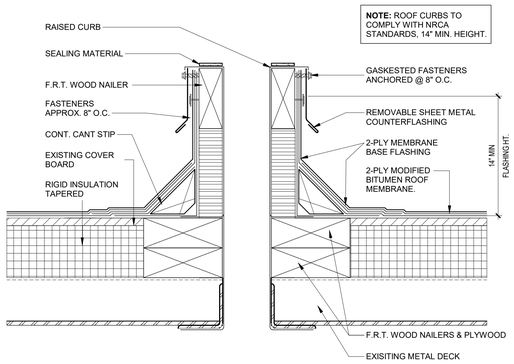
DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

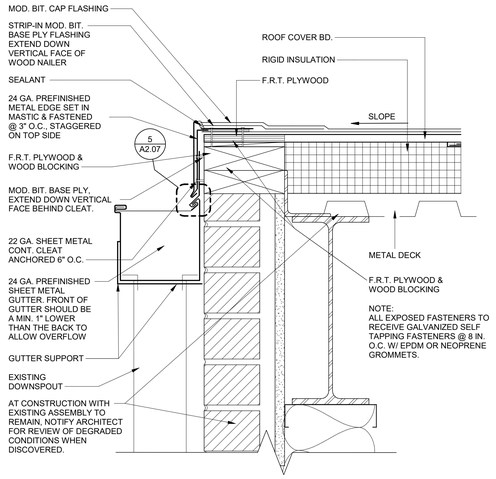
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PROJECT NO.: 2022200

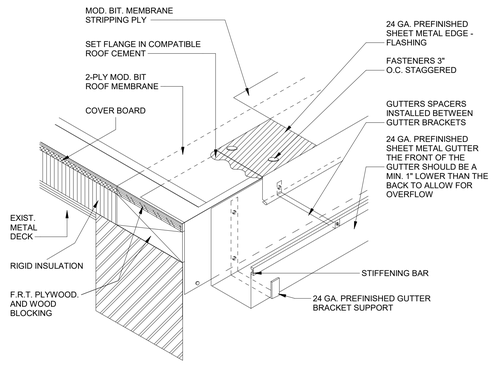
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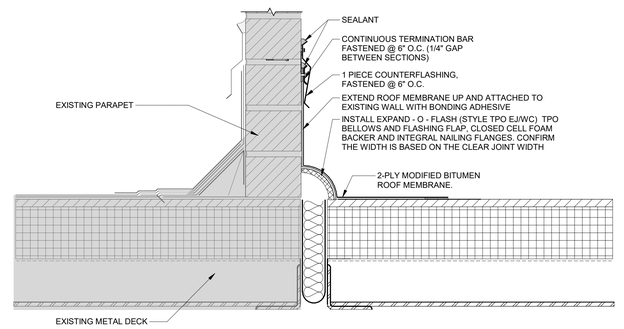
6 CURB UNIT
Scale: 3" = 1'-0"



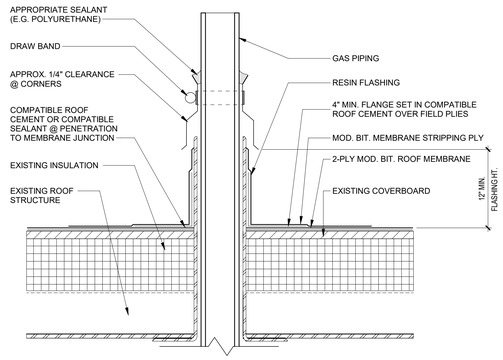
3 DRIP EDGE AND GUTTER DETAIL
Scale: 3" = 1'-0"



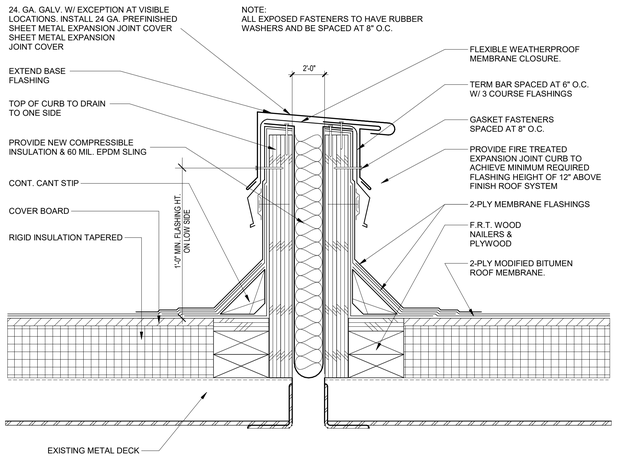
5 GUTTER
Scale: 1/8" = 1'-0"



2 EXPANSION JOINT
Scale: 3" = 1'-0"



4 PIPE PENETRATION
Scale: 3" = 1'-0"



1 EXPANSION JOINT
Scale: 3" = 1'-0"

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ROOF DETAILS

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

A2.07

PROJECT NO.: 2022200

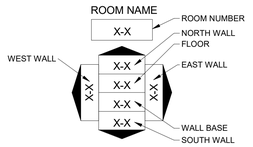
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INTERIOR MATERIAL SCHEDULE

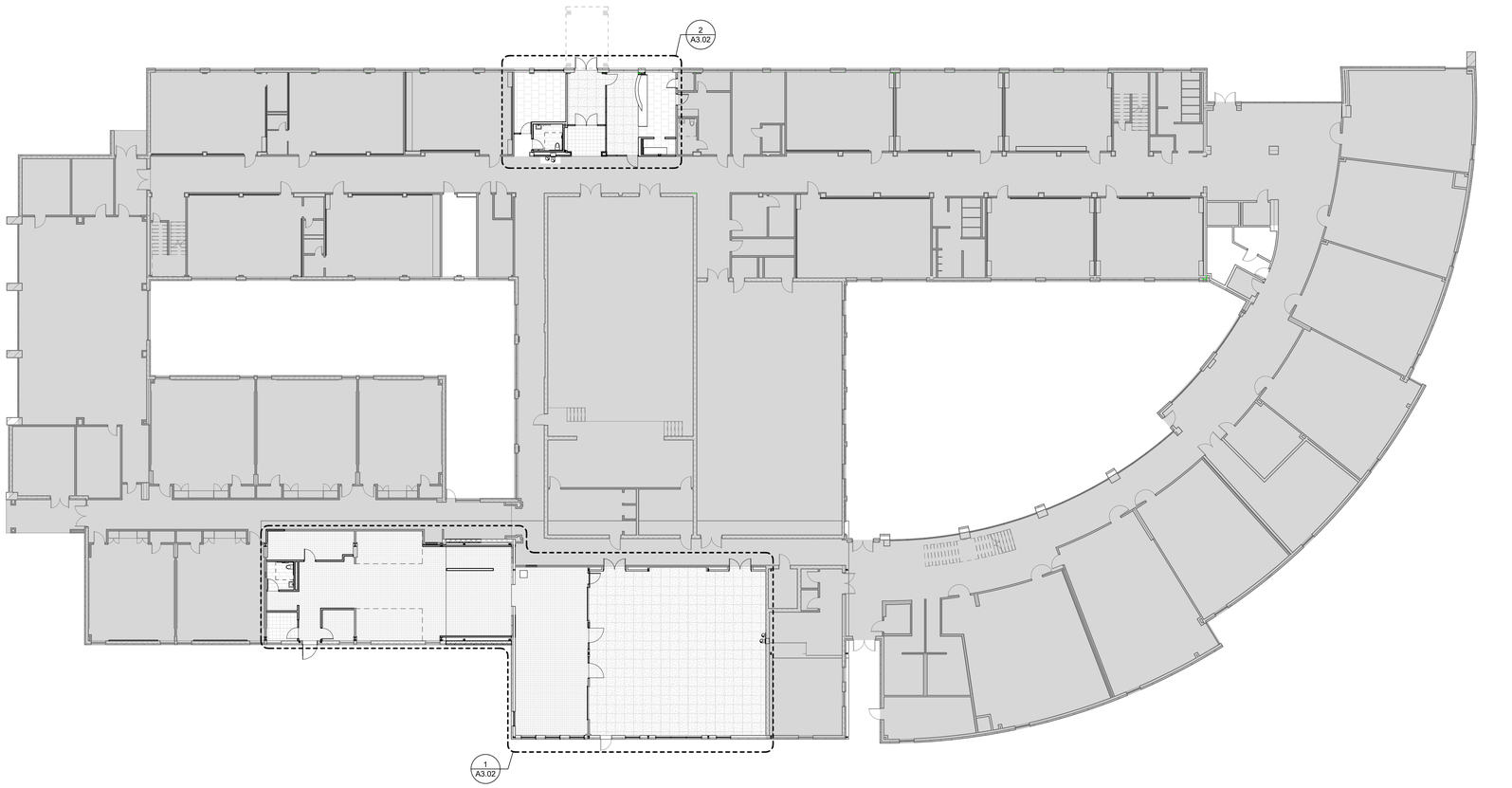
CODE	ITEM	MANUFACTURER	DESCRIPTION	COLOR	SIZE	REMARKS
B1	RUBBER BASE	ROPPE	COVED WALL BASE	100 BLACK	4"	
B2	PORCELAIN TILE BASE	TRINITY SURFACES TILE	VENEZIANA	SILVER, POLISHED	4" BASE, CUT IN FIELD	EXPOSED EDGES TO RECIEVE TRIM STRIP, TS1
B3	TERRACOTTA TILE BASE		TERRACOTA TILE TO MATCH EXISTING	TO MATCH EXISTING		
CLG1	ACOUSTIC CEILING TILE	ARMSTRONG	FINE FISSURED TILE, ANGLED TEGULAR 15/16" GRID	WHITE	24"X24"	
CLG2	ACOUSTIC CLOUD	LAMVIN	FABRIC WRAPPED CIRCULAR CLOUD	SILVER-PAPIER 538	4'-0" DIA.	
CLG3	GYP.BD. CEILING			TO BE PAINTED PT6		
CPT1	CARPET TILE	SHAW CONTRACT	DREAM TILE	48515	24"X24"	
FRP1	FIBER REINFORCED PLASTIC	GLASLINER	TEXTURED	LIGHT GRAY	4'X8' PANELS	
MT1	METAL	FAST SIGNS	CUSTOM METAL SIGNAGE WITH METAL STANDOFFS FOR INSTALLATION	BLAIR SCHOOL LOGO & SCHOOL COLORS	REF. ELEVATIONS	
PT1	TYPICAL PAINT	BEHR	EGGSHELL	MELTING ICICLES		
PT2	ACCENT PAINT	BEHR	EGGSHELL	SILVERSTONE		
PT3	ACCENT PAINT	BEHR	EGGSHELL	MIDSUMMER GOLD		
PT4	EXPOSED CEILING PAINT	BEHR	FLAT	GRANT GRAY		
PT5	GYP.BD. CEILING PAINT	BEHR	FLAT	WHISPER WHITE		
PT6	GYP.BD. CEILING PAINT	BEHR	FLAT	MIDSUMMER GOLD		
PL1	PLASTIC LAMINATE	ABET LAMINATI		469 - SEI		
PL2	PLASTIC LAMINATE	WILSONART		PHANTOM COCOA		
PL3	PLASTIC LAMINATE	WILSONART	MATTE FINISH	NATURAL ALUMINUM, 6252-00-419		
VCT1	VCT TILE	ARMSTRONG	VCT TO MATCH EXISTING	TO MATCH EXISTING		
SS1	SOLID SURFACE	HI-MACS		M209 GENOVA		
TL1	FLOOR TILE	CERAMIC TECHNICS LTD	PORCELAIN SOLUTIONS U.S. CONTRACT VEIN	PLATINUM	12"x24"	GROUT T.B.D. BY ARCHITECT
TL2	WALL TILE	CERAMIC TECHNICS LTD	PORCELAIN SOLUTIONS U.S. CONTRACT VEIN	PLATINUM	12"x24"	GROUT T.B.D. BY ARCHITECT
TL3	QUARRY TILE	THE TILE SHOP	QUARRY TILE	GREY FIELD #681437	6"X6"	GROUT T.B.D. BY ARCHITECT
TL4	WALL TILE	CONCEPT SURFACE	COMPREHENSIVE 2.0	BLANC BRILLIANT	8"X20"	GROUT T.B.D. BY ARCHITECT
TL5	ACCENT WALL TILE	CONCEPT SURFACE	EYE CANDY COLLECTION	LEMON, GLOSSY	3"X10"	GROUT T.B.D. BY ARCHITECT
TL6	ACCENT WALL TILE	CERAMIC TECHNICS LTD	STUDIO MARMI HAND MOLDED TILE	OCRA	4"X12"	GROUT T.B.D. BY ARCHITECT
TL7	FLOOR TILE	TRINITY SURFACES TILE	VENEZIANA	SILVER, POLISHED	24"X24"	GROUT T.B.D. BY ARCHITECT
TL8	FLOOR TILE	DALTILE	KEYSTONES	SUEDE GRAY SPECKLE	2"X4"	GROUT T.B.D. BY ARCHITECT
TS1	TRANSITION STRIP	SCHLUTER	WALL			
TS2	TRANSITION STRIP	SCHLUTER	CARPET TO VCT			
TS3	TRANSITION STRIP	SCHLUTER	TILE TO VCT			
TS4	TRANSITION STRIP	SCHLUTER	TILE TO TILE			
TS5	TRANSITION STRIP	SCHLUTER	TILE TO CARPET			
WS1	WINDOW SHADE		LOUVERED BLINDS	SLATS, HEADRAILS, BRACKETS: BAKED ENAMEL. LADDERS/CORDS: DYED TO MATCH SLATES. COLOR TO MATCH EXISTING	6 GAUGE, 1" WIDE	BLINDS FOR WINDOWS WITH HEAD HEIGHTS ABOVE 8'-0" AFF TO BE MOTORIZED. COORDINATE WITH DALLAS ISD DESIGNATED REP FOR OPERATION REQUIRMENTS FOR WINDOWS WITH HEAD HEIGHTS BELOW 8'-0"

FINISH LEGEND

- OTS — CEILING FINISH
- P1-B1 — WALL FINISH / BASE FINISH
- P1 — WALL FINISH
- T1 — FLOOR FINISH
- S1 — SPECIALTY FINISH
- GRAIN DIRECTION
- FLOOR TRANSITION
- NOT IN SCOPE OF WORK



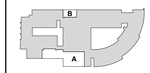
NOTE: UNLESS NOTED OTHERWISE, WALLS SHALL BE PAINTED P1, AND WALL BASE SHALL BE B1.



1 **OVERALL FF&E PLAN**
Scale: 1/16" = 1'-0"

TRUE NORTH PLAN NORTH

KEY PLAN



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OVERALL FINISH PLAN

DRAWING RECORD	
DATE	DESCRIPTION
07/02/25	95% CD - FINAL
11/16/25	100% CD - ISSUE FOR BID

A3.01

PROJECT NO.: 2022200

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INTERIOR MATERIAL SCHEDULE

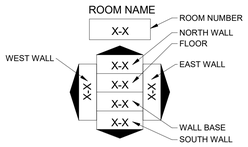
CODE	ITEM	MANUFACTURER	DESCRIPTION	COLOR	SIZE	REMARKS
B1	RUBBER BASE	ROPPE	COVED WALL BASE	100 BLACK	4"	
B2	PORCELAIN TILE BASE	TRINITY SURFACES TILE	VENEZIANA	SILVER, POLISHED	4" BASE, CUT IN FIELD	EXPOSED EDGES TO RECIEVE TRIM STRIP, TS1
B3	TERRACOTTA TILE BASE		TERRACOTA TILE TO MATCH EXISTING	TO MATCH EXISTING		
CLG1	ACOUSTIC CEILING TILE	ARMSTRONG	FINE FISSURED TILE, ANGLED TEGULAR 15/16" GRID	WHITE	24"X24"	
CLG2	ACOUSTIC CLOUD	LAMVIN	FABRIC WRAPPED CIRCULAR CLOUD	SILVER-PAPIER 538	4'-0" DIA.	
CLG3	GYP.BD. CEILING			TO BE PAINTED PT6		
CPT1	CARPET TILE	SHAW CONTRACT	DREAM TILE	48515	24"X24"	
FRP1	FIBER REINFORCED PLASTIC	GLASLINER	TEXTURED	LIGHT GRAY	4'X8" PANELS	
MT1	METAL	FAST SIGNS	CUSTOM METAL SIGNAGE WITH METAL STANDOFFS FOR INSTALLATION	BLAIR SCHOOL LOGO & SCHOOL COLORS	REF. ELEVATIONS	
PT1	TYPICAL PAINT	BEHR	EGGSHELL	MELTING ICICLES		
PT2	ACCENT PAINT	BEHR	EGGSHELL	SILVERSTONE		
PT3	ACCENT PAINT	BEHR	EGGSHELL	MIDSUMMER GOLD		
PT4	EXPOSED CEILING PAINT	BEHR	FLAT	GRANT GRAY		
PT5	GYP.BD. CEILING PAINT	BEHR	FLAT	WHISPER WHITE		
PT6	GYP.BD. CEILING PAINT	BEHR	FLAT	MIDSUMMER GOLD		
PL1	PLASTIC LAMINATE	ABET LAMINATI		469 - SEI		
PL2	PLASTIC LAMINATE	WILSONART		PHANTOM COCOA		
PL3	PLASTIC LAMINATE	WILSONART	MATTE FINISH	NATURAL ALUMINUM, 6252-00-419		
VCT1	VCT TILE	ARMSTRONG	VCT TO MATCH EXISTING	TO MATCH EXISTING		
SS1	SOLID SURFACE	HI-MACS		M209 GENOVA		
TL1	FLOOR TILE	CERAMIC TECHNICS LTD	PORCELAIN SOLUTIONS U.S. CONTRACT VEIN	PLATINUM	12"x24"	GROUT T.B.D. BY ARCHITECT
TL2	WALL TILE	CERAMIC TECHNICS LTD	PORCELAIN SOLUTIONS U.S. CONTRACT VEIN	PLATINUM	12"x24"	GROUT T.B.D. BY ARCHITECT

INTERIOR MATERIAL SCHEDULE

CODE	ITEM	MANUFACTURER	DESCRIPTION	COLOR	SIZE	REMARKS
TL3	QUARRY TILE	THE TILE SHOP	QUARRY TILE	GREY FIELD #681437	6"X6"	GROUT T.B.D. BY ARCHITECT
TL4	WALL TILE	CONCEPT SURFACE	COMPREHENSIVE 2.0	BLANC BRILLIANT	8"X20"	GROUT T.B.D. BY ARCHITECT
TL5	ACCENT WALL TILE	CONCEPT SURFACE	EYE CANDY COLLECTION	LEMON, GLOSSY	3"X10"	GROUT T.B.D. BY ARCHITECT
TL6	ACCENT WALL TILE	CERAMIC TECHNICS LTD	STUDIO MARMI HAND MOLDED TILE	OCRA	4"X12"	GROUT T.B.D. BY ARCHITECT
TL7	FLOOR TILE	TRINITY SURFACES TILE	VENEZIANA	SILVER, POLISHED	24"X24"	GROUT T.B.D. BY ARCHITECT
TL8	FLOOR TILE	DALTILE	KEYSTONES	SUEDE GRAY SPECKLE	2"X4"	GROUT T.B.D. BY ARCHITECT
TS1	TRANSITION STRIP	SCHLUTER	WALL			
TS2	TRANSITION STRIP	SCHLUTER	CARPET TO VCT			
TS3	TRANSITION STRIP	SCHLUTER	TILE TO VCT			
TS4	TRANSITION STRIP	SCHLUTER	TILE TO TILE			
TS5	TRANSITION STRIP	SCHLUTER	TILE TO CARPET			
WS1	WINDOW SHADE		LOUVERED BLINDS	SLATS, HEADRAILS, BRACKETS: BAKED ENAMEL. LADDERS/CORDS: DYED TO MATCH SLATES. COLOR TO MATCH EXISTING	6 GAUGE, 1" WIDE	BLINDS FOR WINDOWS WITH HEAD HEIGHTS ABOVE 8'-0" AFF TO BE MOTORIZED. COORDINATE WITH DALLAS ISD DESIGNATED REP FOR OPERATION REQUIRMENTS FOR WINDOWS WITH HEAD HEIGHTS BELOW 8'-0"

FINISH LEGEND

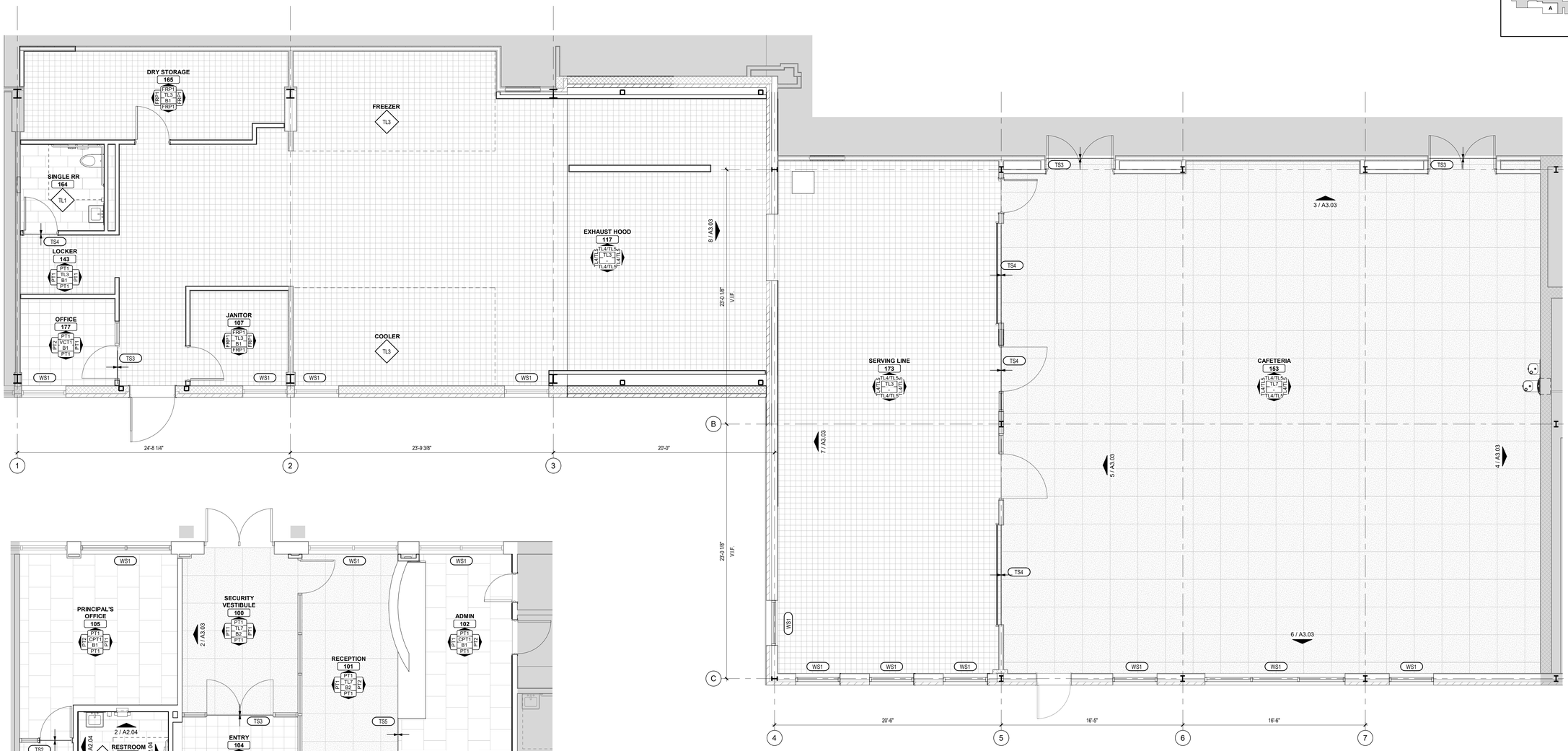
- OTS — CEILING FINISH
- ~~P1 B1~~ — WALL FINISH / BASE FINISH
- P1 — WALL FINISH
- T1 — FLOOR FINISH
- S1 — SPECIALTY FINISH
- GRAIN DIRECTION
- FLOOR TRANSITION
- NOT IN SCOPE OF WORK

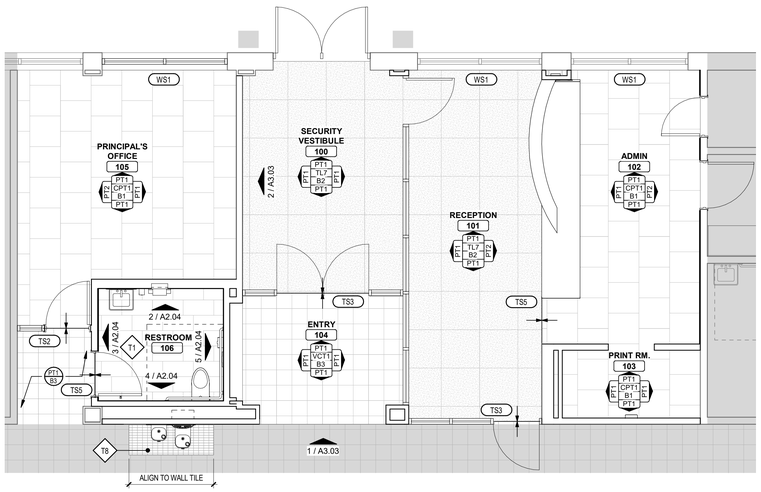


NOTE: UNLESS NOTED OTHERWISE, WALLS SHALL BE PAINTED P1, AND WALL BASE SHALL BE B1.

KEY PLAN







2 ENLARGED FF&E PLAN - VESTIBULE
Scale: 1/4" = 1'-0"

PLAN NORTH

1 ENLARGED FINISH PLAN - CAFETERIA & KITCHEN
Scale: 1/4" = 1'-0"

PLAN NORTH

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ENLARGED FINISH PLANS

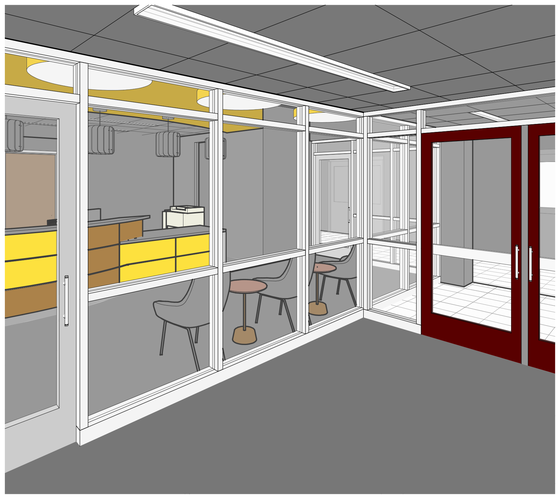
DRAWING RECORD

DATE	DESCRIPTION
07/02/25	95% CD - FINAL
11/16/25	100% CD - ISSUE FOR BID

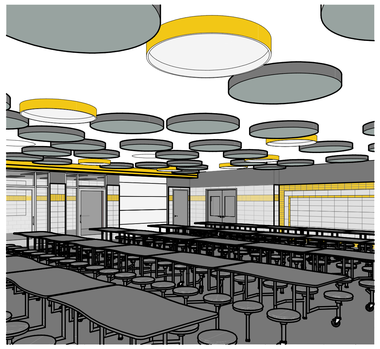
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PROJECT NO.: 2022200

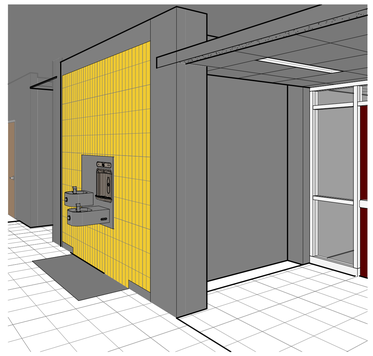
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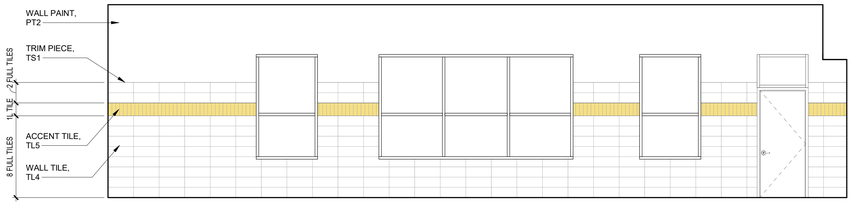
PERSPECTIVE 02



PERSPECTIVE 03



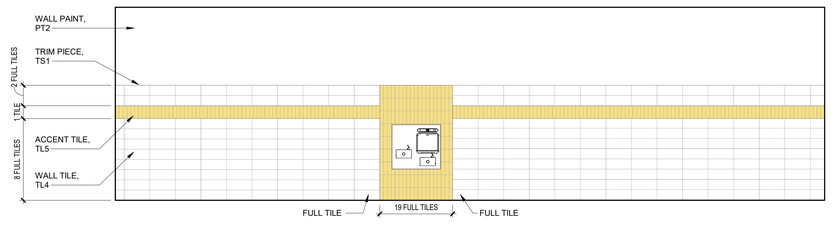
PERSPECTIVE 01



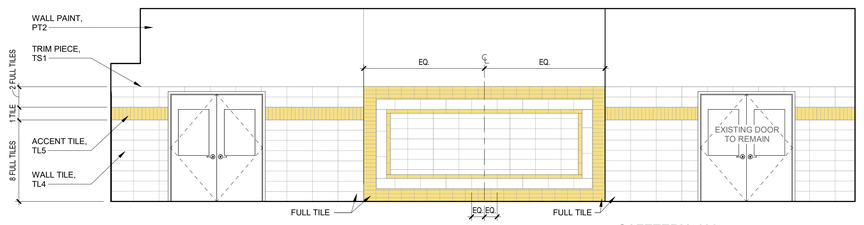
6 CAFETERIA 182
Scale: 1/4" = 1'-0"



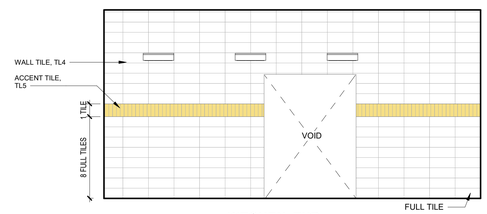
5 CAFETERIA 182
Scale: 1/4" = 1'-0"



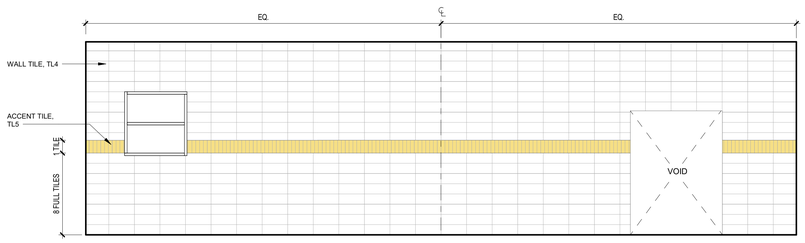
4 CAFETERIA 182
Scale: 1/4" = 1'-0"



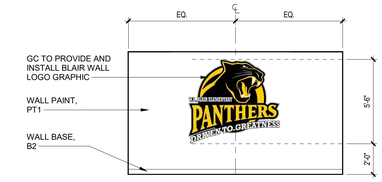
3 CAFETERIA 182
Scale: 1/4" = 1'-0"



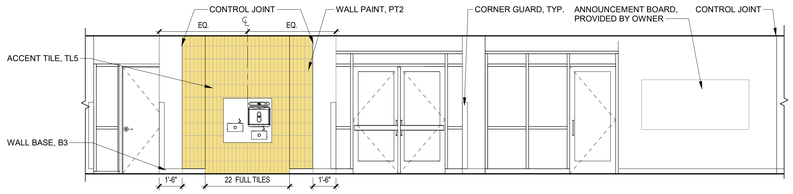
8 KITCHEN, TYP.
Scale: 1/4" = 1'-0"



7 SERVING AREA, TYP.
Scale: 1/4" = 1'-0"



2 SECURITY VESTIBULE 100
Scale: 1/4" = 1'-0"



1 ENTRY 104
Scale: 1/4" = 1'-0"

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INTERIOR ELEVATIONS & DETAILS

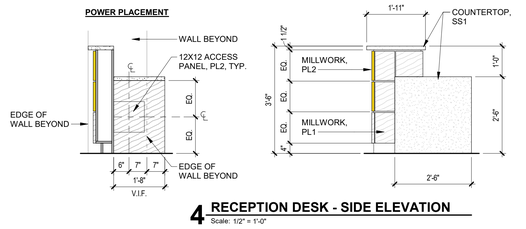
DRAWING RECORD

DATE	DESCRIPTION
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11/16/25	100% CD - ISSUE FOR BID

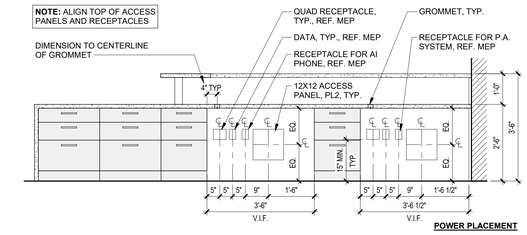
A3.03

PROJECT NO.: 2022200

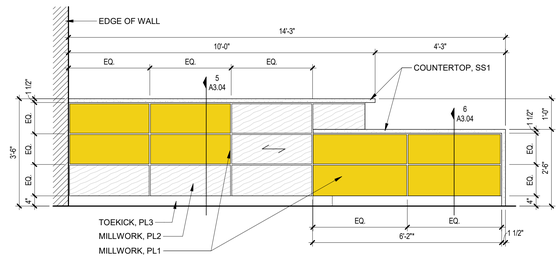
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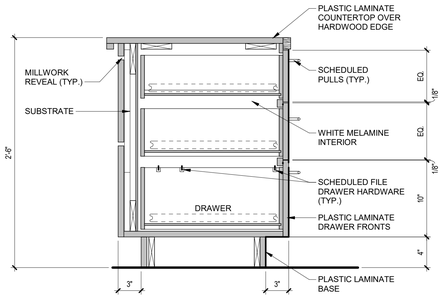
4 RECEPTION DESK - SIDE ELEVATION
Scale: 1/2" = 1'-0"



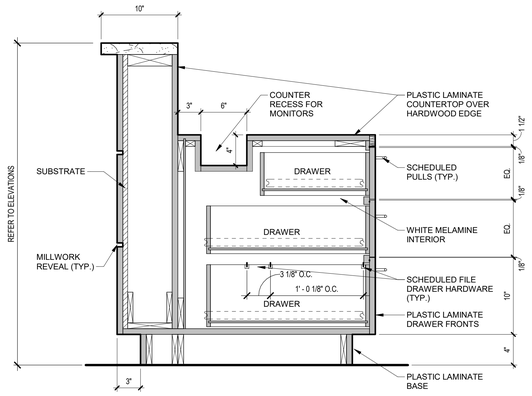
3 RECEPTION DESK - BACK ELEVATION
Scale: 1/2" = 1'-0"



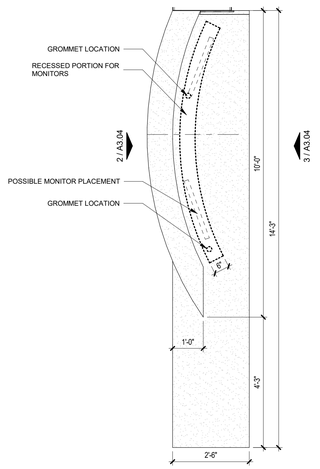
2 RECEPTION DESK - FRONT ELEVATION
Scale: 1/2" = 1'-0"



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



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



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

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MILLWORK DETAILS & ELEVATIONS

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

A3.04

PROJECT NO.: 2022200

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REFLECTED CEILING NOTES

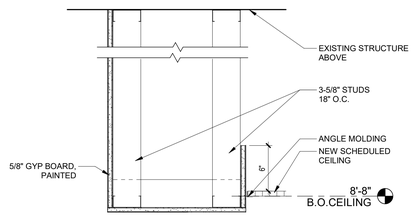
- ALL WORK SHALL CONFORM TO ALL APPLICABLE BUILDING CODES.
- CEILING TILE, LIGHT FIXTURES AND OTHER ITEMS SCHEDULED ON DRAWINGS SHALL BE LOCATED PER REFLECTED CEILING PLANS. THE CONTRACTOR SHALL USE EXTREME CARE IN COORDINATING THEIR WORK TO FIT THE PATTERN SHOWN ON THE REFLECTED CEILING PLANS. IF A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

REFLECTED CEILING PLAN LEGEND

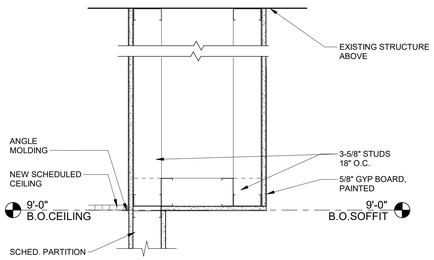
- SUSPENDED PENDANT LIGHT FIXTURE
- EXIT LIGHT FIXTURES (CEILING-MOUNTED OR WALL MOUNTED)
- TYPE A: 2'X4' RECESSED 'LED' FIXTURE
- TYPE B: 2'X2' RECESSED 'LED' FIXTURE
- TYPE C: 8' FINELITE HP6-R RECESSED 'LED' FIXTURE
- TYPE D: 4' FINELITE HP6-R RECESSED 'LED' FIXTURE
- TYPE E: MILL 14" SUSPENDED
- TYPE F: 42" DIA. INNIE PENDANT, BROWNLEE LIGHTING
- TYPE G: 6" LED RECESSED DOWNLIGHT
- EXIST. STRUCTURAL BEAM
- NEW STRUCTURAL BEAM
- 4' DIA. LAMVIN CIRCULAR SUSPENDED FABRIC CLOUDS
- 2'X2' ACOUSTICAL LAY-IN CEILING
- PAINTED GYPSUM BOARD CEILING
- NOT IN SCOPE OF WORK

1 **OVERALL REFLECTED CEILING PLAN**
Scale: 1/16" = 1'-0"

PLAN NORTH



3 **CEILING FURR DOWN DETAIL**
Scale: 1 1/2" = 1'-0"



2 **CEILING FURR DOWN DETAIL**
Scale: 1 1/2" = 1'-0"

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KEY PLAN



OVERALL REFLECTED CEILING PLAN

DRAWING RECORD

DATE	DESCRIPTION
07/02/25	95% CD - FINAL
11/16/25	100% CD - ISSUE FOR BID

A4.01

PROJECT NO.: 2022200

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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.
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- 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.

REFLECTIVE CEILING PLAN NOTES

01 GC TO PLACE NEW GYP.BD. CEILINGS AND FINISH WITH PAINT, PT5.

02 GC TO INSTALL NEW 2X4 LED LIGHTS. REFERENCE MEP.

03 GC TO INSTALL NEW LED RECESSED CAN LIGHTS, REFERENCE MEP.

04 GC TO INSTALL NEW 2X2 ACOUSTICAL CEILING TILE, CLG1.

05 GC TO INSTALL NEW LED PENDANT LIGHTS, 3'-6" DIA. BROWNLEE LTG. INNIE. 9'-6" AFF.

06 GC TO INSTALL NEW LED PENDANT LIGHTS, MILL 14" UNLIT IN COLOR TBD.

07 GC TO INSTALL NEW LED RECESSED LIGHTS, FINELITE HP6-R.

08 GC TO PLACE NEW GYP.BD. FURR DOWN AND FINISH WITH PAINT, PT6.

09 NEW ADDITION TO REQUIRE EXPANSION JOINTS ON FLOORS, WALLS AND CEILING. GC TO COORDINATE WITH ARCHITECT.

10 ALL EXPOSED STUCTURE AND PIPES TO BE PAINTED PT4.

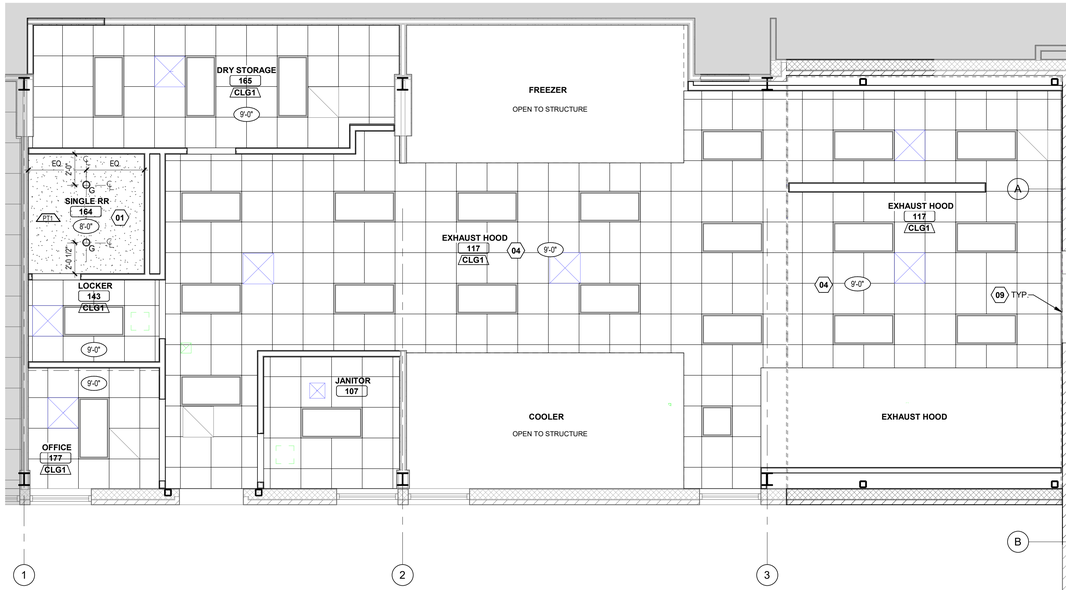
11 GC TO INSTALL NEW LED PENDANT LIGHTING AND ACOUSTICAL CLOUDS AT 9'-0" AFF.

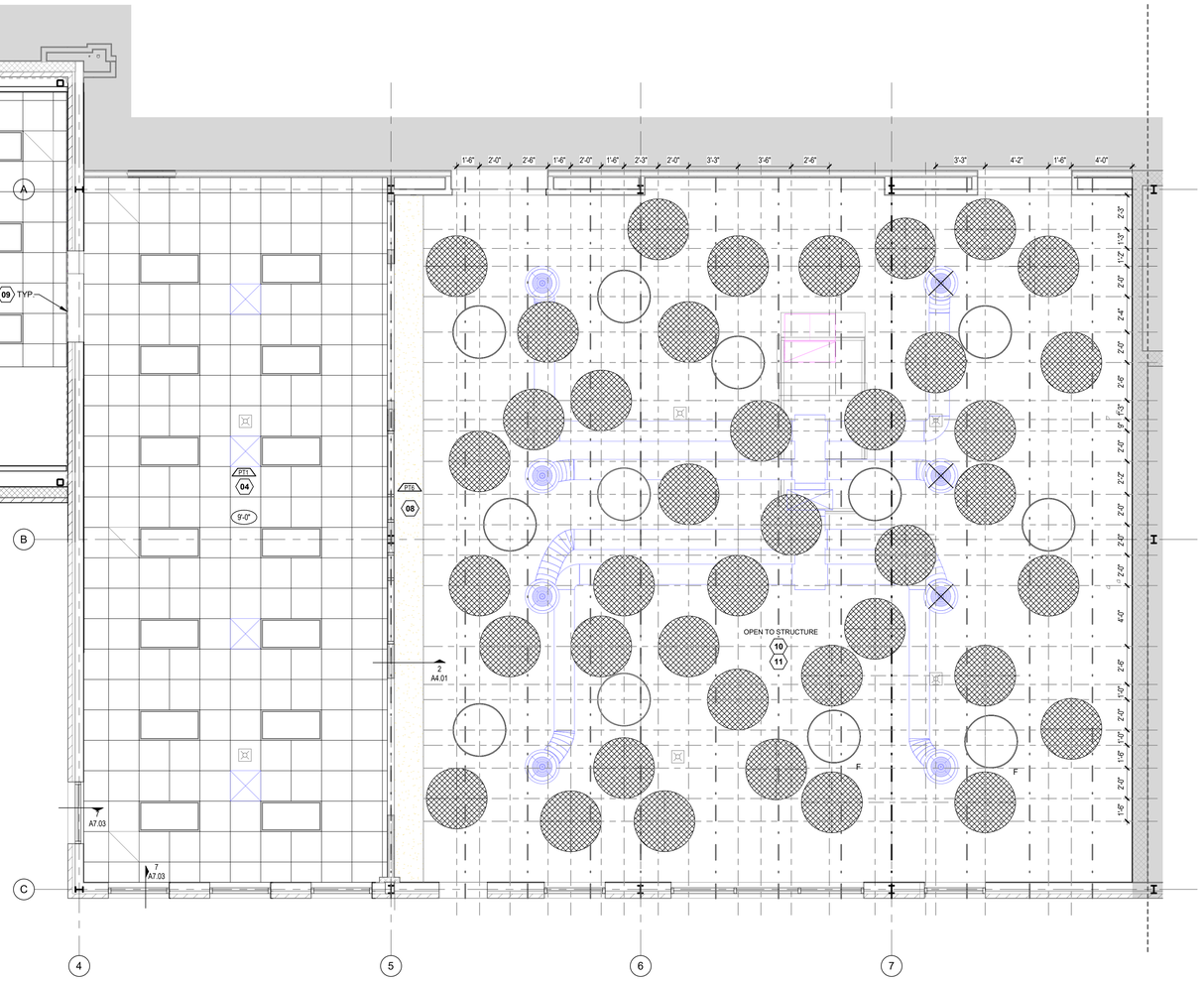
REFLECTED CEILING PLAN LEGEND

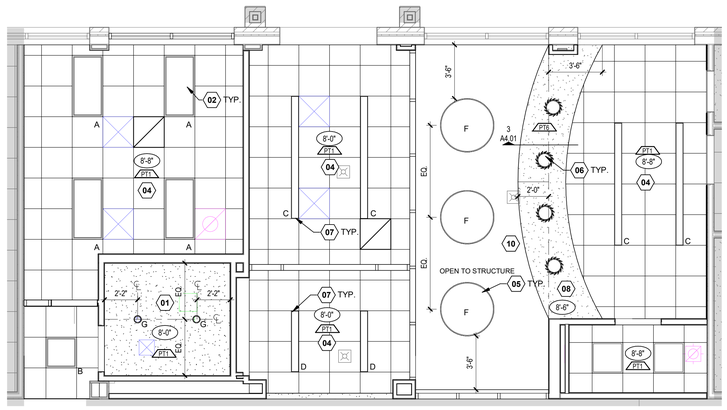
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- EXIT LIGHT FIXTURES (CEILING-MOUNTED OR WALL MOUNTED)
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- EXIST. STRUCTURAL BEAM
- NEW STRUCTURAL BEAM
- 4' DIA. LAMVIN CIRCULAR SUSPENDED FABRIC CLOUDS
- 2'X2' ACOUSTICAL LAY-IN CEILING
- PAINTED GYPSUM BOARD CEILING
- NOT IN SCOPE OF WORK

KEY PLAN









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

1 ENLARGED RCP - CAFETERIA & KITCHEN
Scale: 1/4" = 1'-0"
PLAN NORTH

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STATE OF TEXAS
11/16/25

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ENLARGED REFLECTED CEILING PLANS

DRAWING RECORD

DATE	DESCRIPTION
07/02/25	95% CD - FINAL
11/16/25	100% CD - ISSUE FOR BID

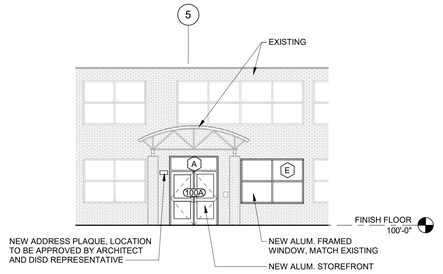
A4.02

PROJECT NO.: 2022200

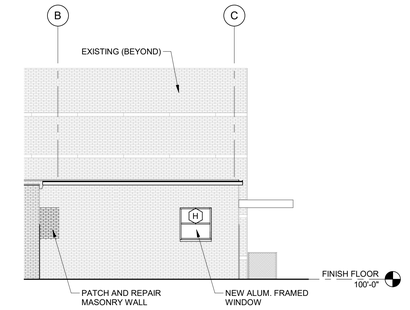
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EXTERIOR MATERIAL SCHEDULE

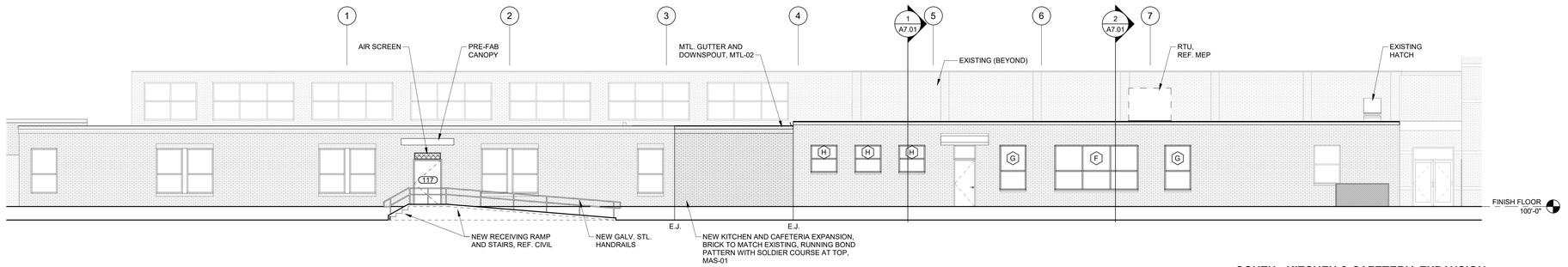
CODE	ITEM	COLOR	MANUFACTURER	DESCRIPTION
MAS-01	BRICK, COMMON	520 DARK MODULAR	KANSAS BRICK & TILE CO., BLACKSON BRICK	RUNNING BOND & SOLDIER COURSE, TO MATCH EXISTING
MTL-01	PRE-FAB	DARK BRONZE	-	EXTERIOR CANOPY
MTL-02	GUTTER & DOWNSPOUT	DARK BRONZE	AMERICAN BUILDINGS	PAINT GUTTERS, DOWNSPOUTS
AL-01	STOREFRONT	MATCH EXISTING	-	MATCH EXISTING
GL-01	GLAZING	MATCH EXISTING	-	MATCH EXISTING



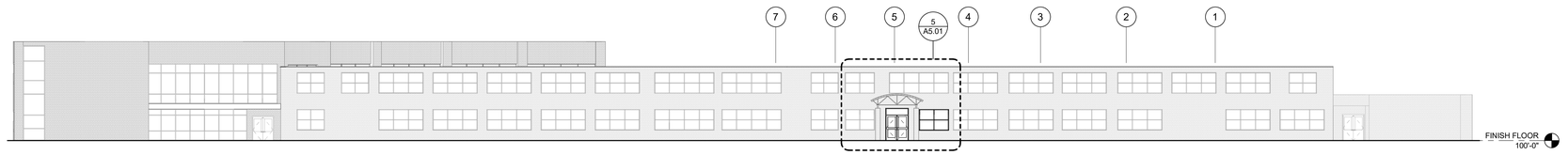
5 NORTH - FRONT ENTRANCE
Scale: 1/8" = 1'-0"



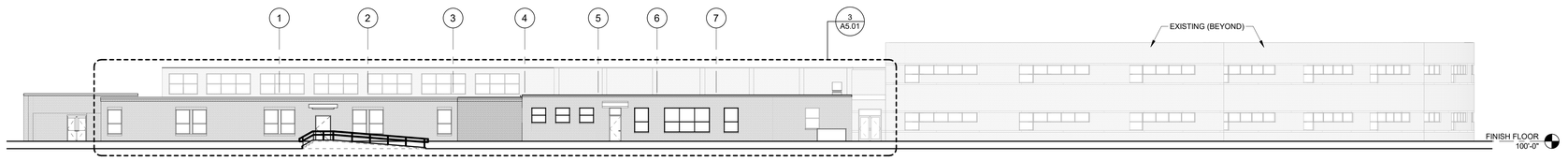
4 WEST ELEVATION
Scale: 1/8" = 1'-0"



3 SOUTH - KITCHEN & CAFETERIA EXPANSION
Scale: 1/8" = 1'-0"



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



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

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EXTERIOR BUILDING ELEVATIONS

DRAWING RECORD

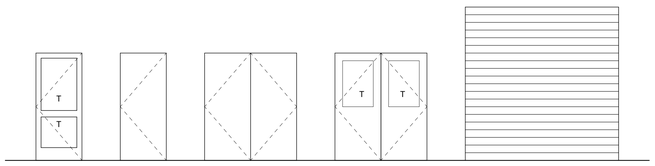
DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

A5.01

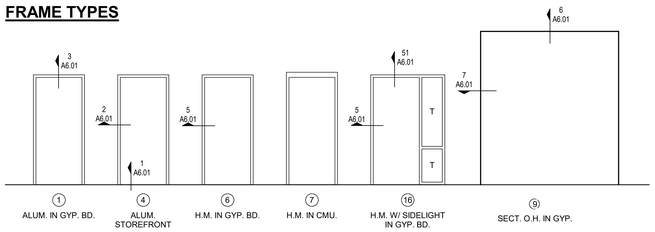
PROJECT NO.: 2022200

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DOOR TYPES



FRAME TYPES



WINDOW SCHEDULE

TYPE	FRAME MATERIAL	WINDOW SIZE	FRAME DEPTH	FRAME FINISH	GLAZING TYPE
A	ALUM.	REF. TO ELEVATIONS	4 1/2"	MATCH EXISTING, ARCHITECT TO APPROVE	
B	ALUM.	REF. TO ELEVATIONS	4 1/2"	CLEAR ANODIZED	
C	ALUM.	REF. TO ELEVATIONS	4 1/2"	CLEAR ANODIZED	
D	ALUM.	REF. TO ELEVATIONS	4 1/2"	CLEAR ANODIZED	
E	ALUM.	REF. TO ELEVATIONS	4 1/2"	MATCH EXISTING, ARCHITECT TO APPROVE	
F	ALUM.	REF. TO ELEVATIONS	4 1/2"	CLEAR ANODIZED	
G	ALUM.	REF. TO ELEVATIONS	4 1/2"	CLEAR ANODIZED	
H	ALUM.	REF. TO ELEVATIONS	4 1/2"	CLEAR ANODIZED	
J	ALUM.	REF. TO ELEVATIONS	4 1/2"	CLEAR ANODIZED	

DOOR & FRAME FINISH LEGEND

FINISHES

BD - DARK BRONZE
CA - CLEAR ANODIZED
GL# - GLASS
P# - PAINT
PL# - PLASTIC LAMINATE
WD# - WOOD
T - TEMPERED

MATERIAL

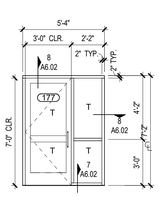
AL - ALUMINUM
AL/GL - ALUMINUM / GLASS
FF - FACTORY FINISH
HM - HOLLOW METAL
MTL - METAL
PL - PLASTIC LAMINATE
PT - PAINT
WD - WOOD

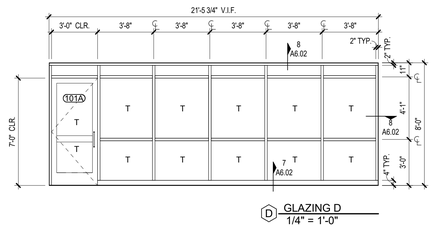
NOTE: ALL GLASS SHALL BE TEMPERED.

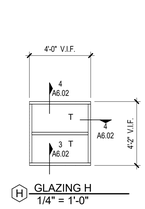
DOOR SCHEDULE

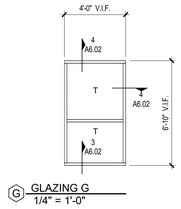
DOOR NUMBER	DOOR TYPE	DOOR THICKNESS	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	HARDWARE SET	REMARKS
100A	A2	1-3/4"	3'-0"	7'-0"	AL/GA	CA	4	AL	CA		CR714AM	TO RECEIVE PANIC HARDWARE
100B	A3	1-3/4"	6'-0"	7'-0"	AL/GA	CA	4	AL	CA		C710AMV	TO RECEIVE PANIC HARDWARE
101A	A	1-3/4"	3'-0"	7'-0"	ALGL	CA	4	AL	CA		ER207A	
101B	A	1-3/4"	3'-0"	7'-0"	ALGL	CA	4	AL	CA		CR201AC	
102A	B	1-3/4"	2'-6"	7'-0"	WD	WD	1	HM	PT		X-C201C	
102B	C	1-3/4"	3'-0"	7'-0"	WD	WD	1	HM	PT		X-C201	
105	B	1-3/4"	2'-10"	7'-0"	WD	WD	16	HM	PT		551	
106	B	1-3/4"	2'-10"	7'-0"	WD	WD	6	HM	PT		301	
107	B	1-3/4"	3'-0"	7'-0"	HM	PT	6	HM	PT		201	
117	B	1-3/4"	4'-0"	7'-0"	HM	PT	6	HM	PT		551CHW	
153A	D2	1-3/4"	6'-0"	7'-0"	HM	PT	1	HM	PT		750CHM	TO RECEIVE PANIC HARDWARE
153B	D2	1-3/4"	6'-0"	7'-0"	HM	PT	1	HM	PT		750CHM	TO RECEIVE PANIC HARDWARE
153C	B	1-3/4"	3'-0"	7'-0"	HM	PT	6	HM	PT		551CH	
153E	A	1-3/4"	4'-0"	7'-0"	ALGL	CA	4	AL	CA		551ACH	
153F	A	1-3/4"	4'-0"	7'-0"	ALGL	CA	4	AL	CA		551ACH	
164	B	1-3/4"	3'-0"	7'-0"	HM	PT	6	HM	PT		301	
165	B	1-3/4"	3'-0"	7'-0"	HM	PT	6	HM	PT		207	
177	A	1-3/4"	3'-0"	7'-0"	ALGL	CA	4	AL	CA		103	
E131	D2	1-3/4"	5'-8"	7'-0"	EXISTING	EXISTING	7	EXISTING	EXISTING		C714M	TO RECEIVE PANIC HARDWARE
E136A	A2	1-3/4"	3'-0"	7'-0"	EXISTING	EXISTING	1	EXISTING	EXISTING		X-C714AM	TO RECEIVE PANIC HARDWARE
E155	D2	1-3/4"	5'-8"	7'-0"	EXISTING	EXISTING	7	EXISTING	EXISTING		C714M	TO RECEIVE PANIC HARDWARE
E161	D2	1-3/4"	5'-8"	7'-0"	EXISTING	EXISTING	7	EXISTING	EXISTING		C714M	TO RECEIVE PANIC HARDWARE

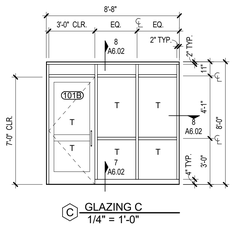
WINDOW TYPES

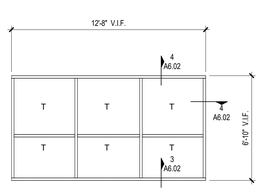


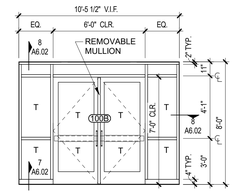


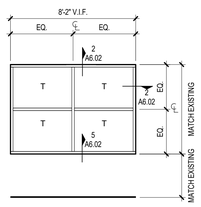


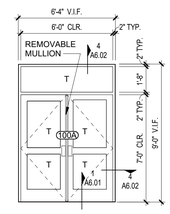


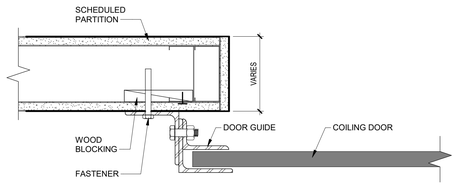


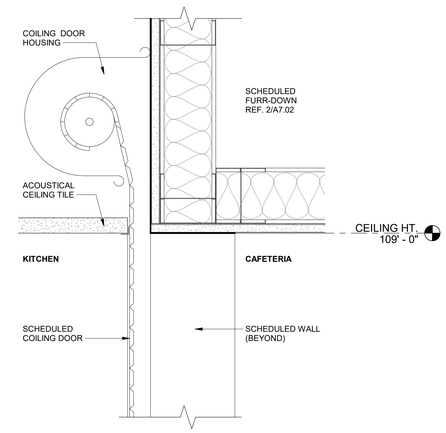


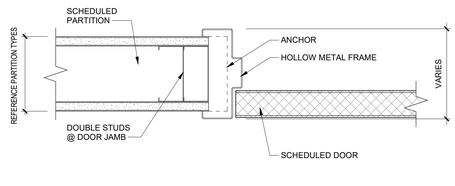


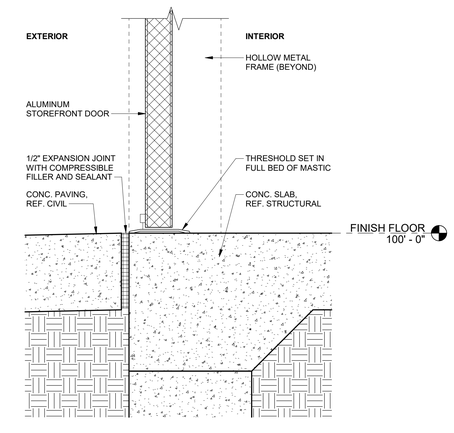


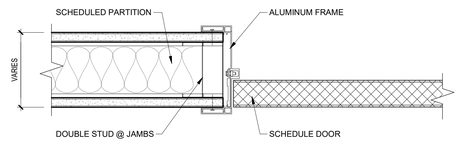


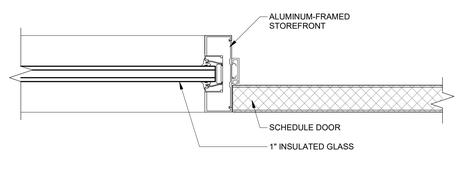


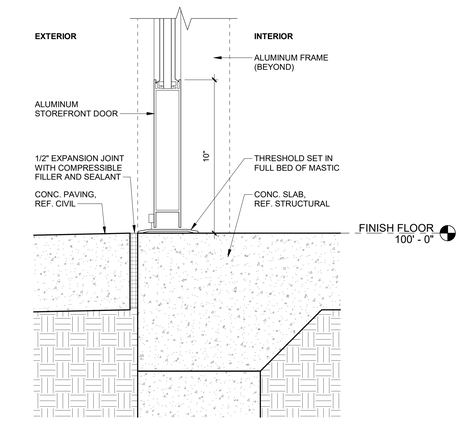












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DOOR TYPES, AND DOOR & WINDOW SCHEDULES

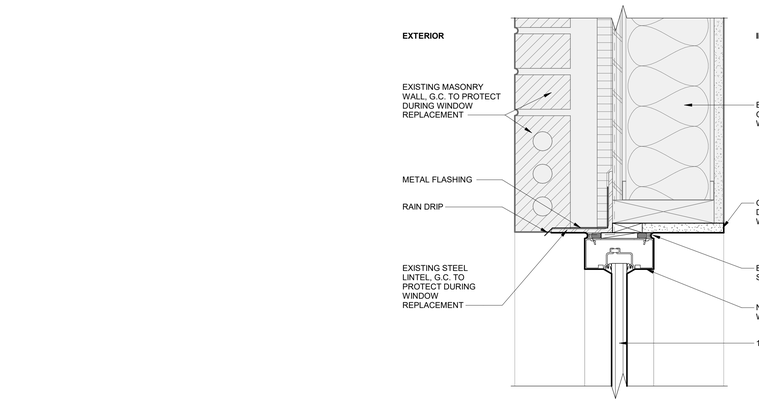
DRAWING RECORD

DATE	DESCRIPTION
07/02/25	95% CD - FINAL
10/16/25	CITY COMMENTS 02
11/16/25	100% CD - ISSUE FOR BID

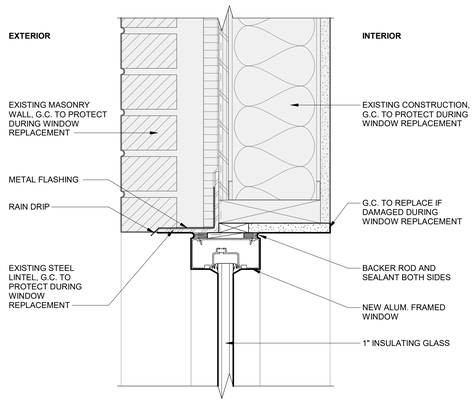
A6.01

PROJECT NO.: 2022200

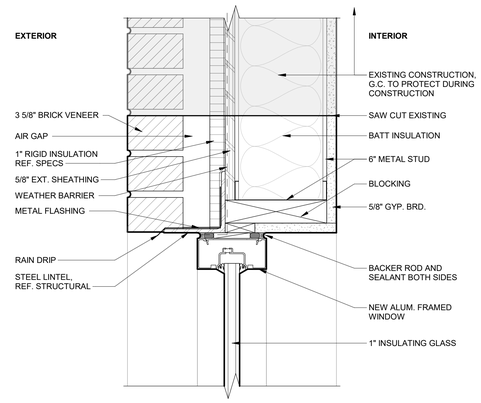
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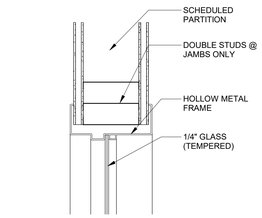
6 HEAD DETAIL @ BRICK
Scale: 3" = 1'-0"



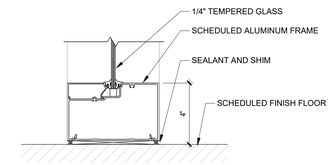
4 HEAD DETAIL @ BRICK
Scale: 3" = 1'-0"



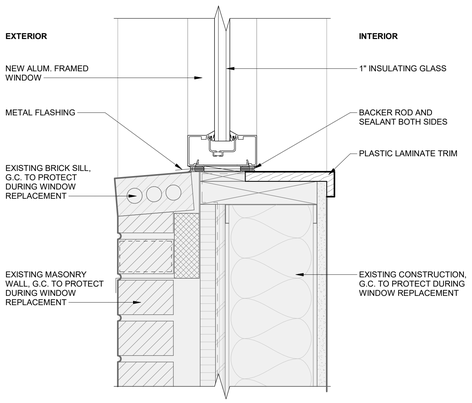
2 HEAD DETAIL @ BRICK
Scale: 3" = 1'-0"



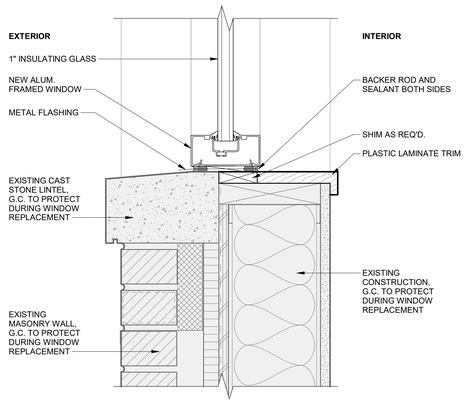
8 HEAD/JAMB DETAIL @ GYP. BD.
Scale: 3" = 1'-0"



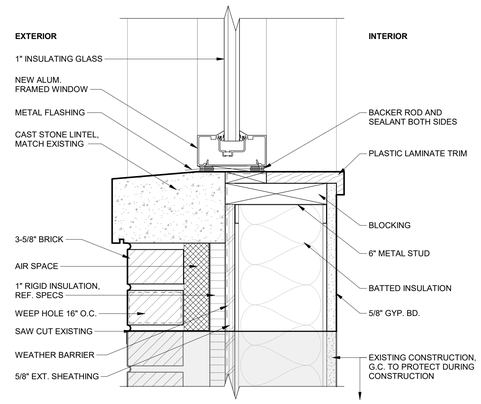
7 SILL DETAIL @ INTERIOR WALL
Scale: 3" = 1'-0"



5 SILL DETAIL @ BRICK
Scale: 3" = 1'-0"



3 SILL DETAIL @ EXISTING BRICK
Scale: 3" = 1'-0"



1 SILL DETAIL @ EXISTING BRICK
Scale: 3" = 1'-0"

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GLAZING DETAILS

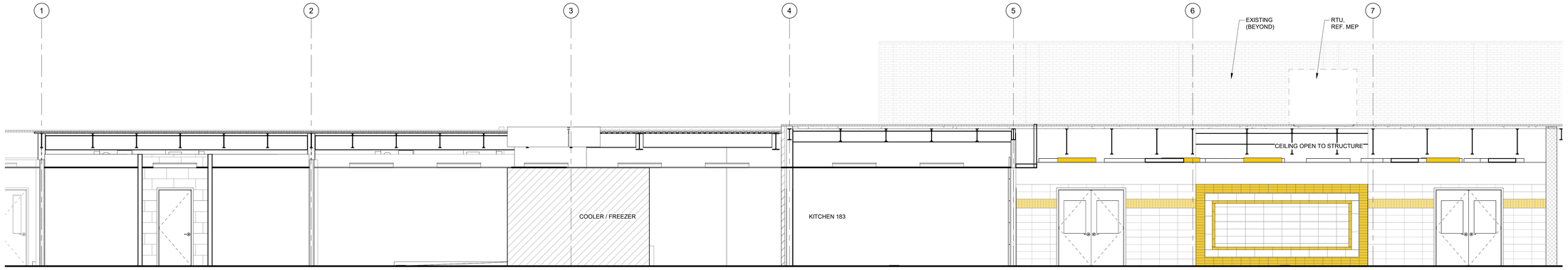
DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

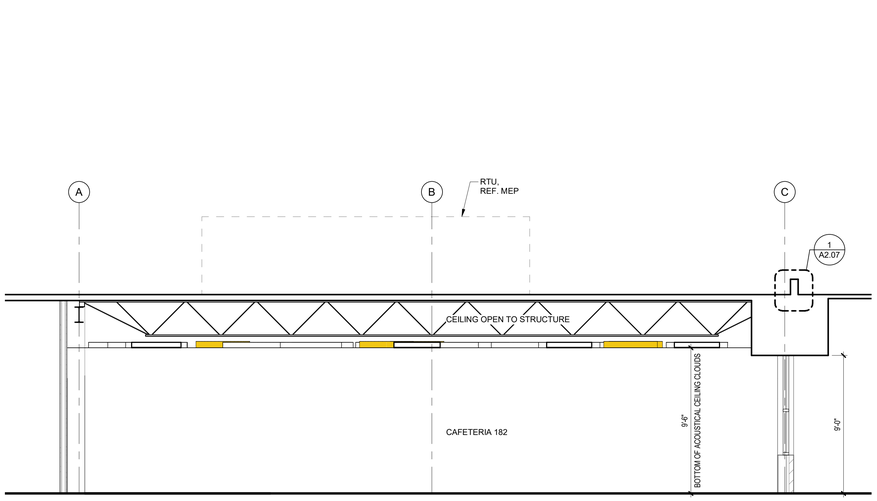
A6.02

PROJECT NO.: 2022200

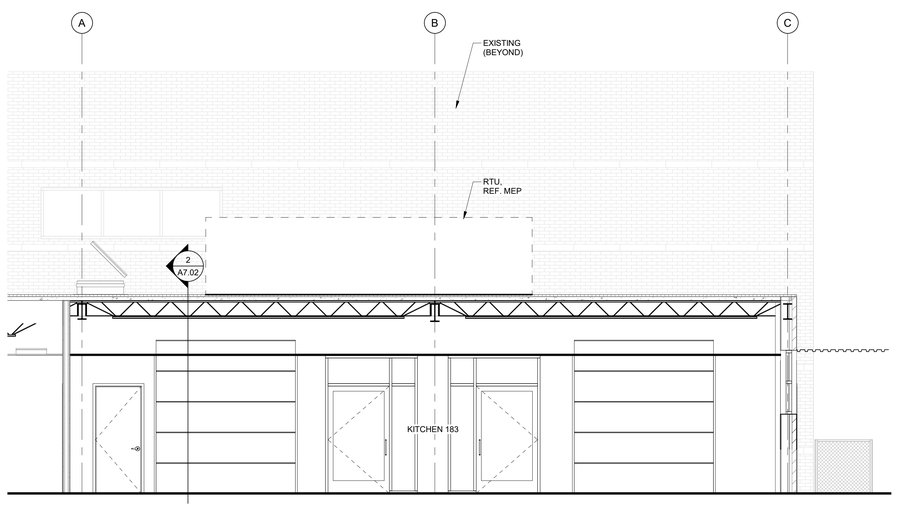
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3 KITCHEN & CAFETERIA
Scale: 1/4" = 1'-0"



2 BUILDING SECTION - CAFETERIA
Scale: 1/4" = 1'-0"



1 BUILDING SECTION - KITCHEN
Scale: 1/4" = 1'-0"

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BUILDING SECTIONS

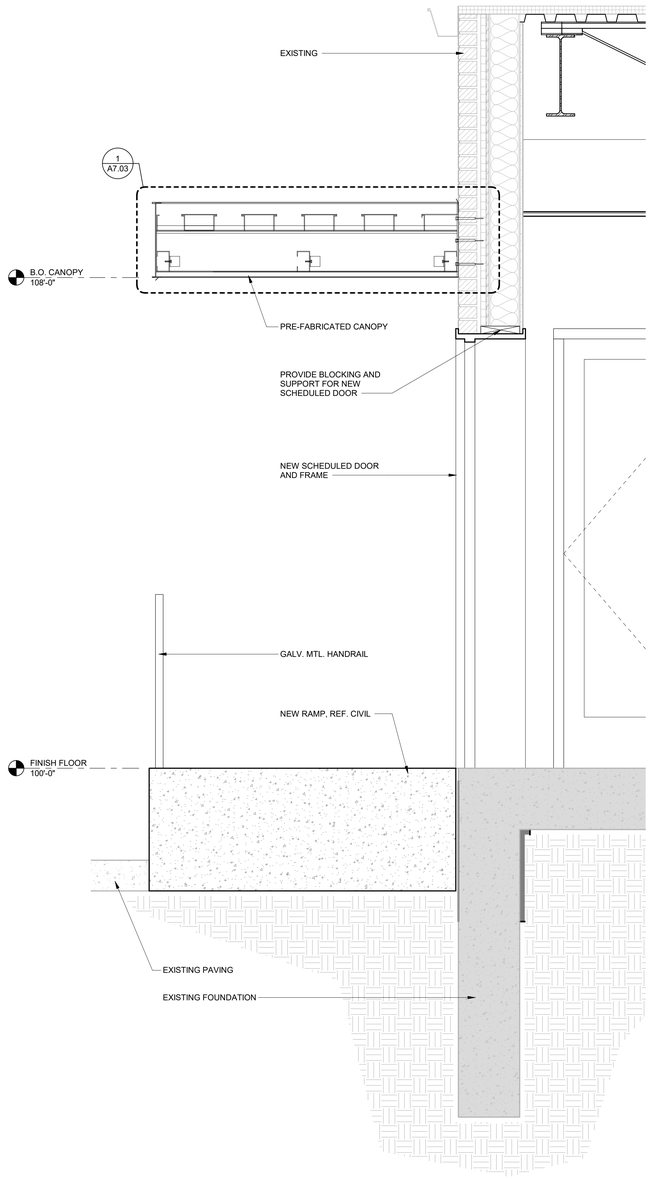
DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

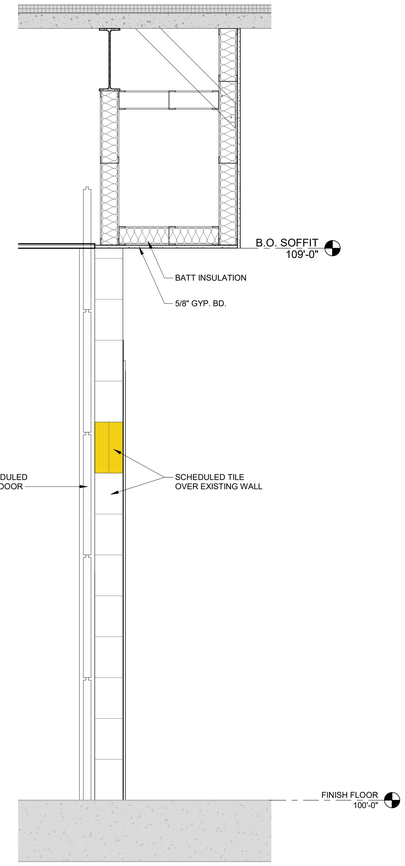
A7.01

PROJECT NO.: 2022200

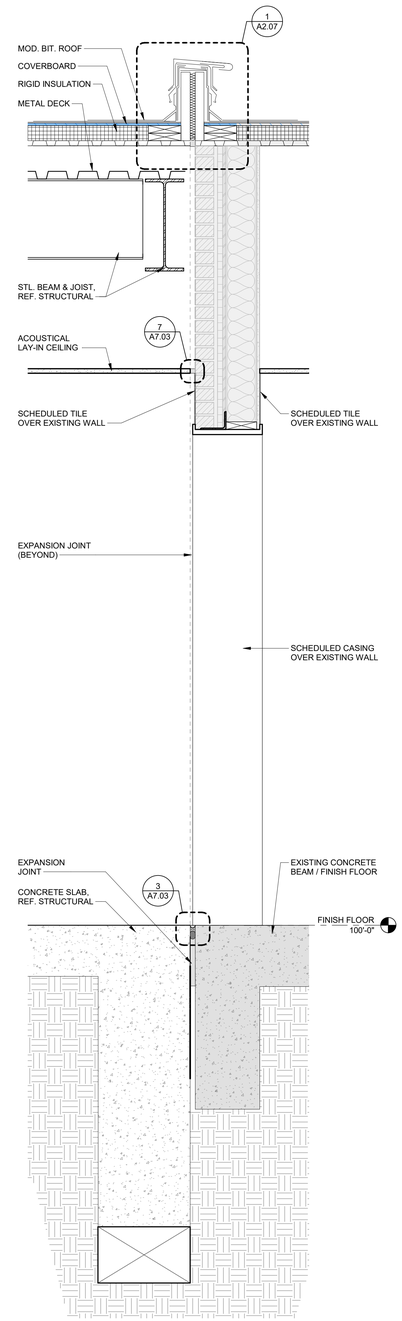
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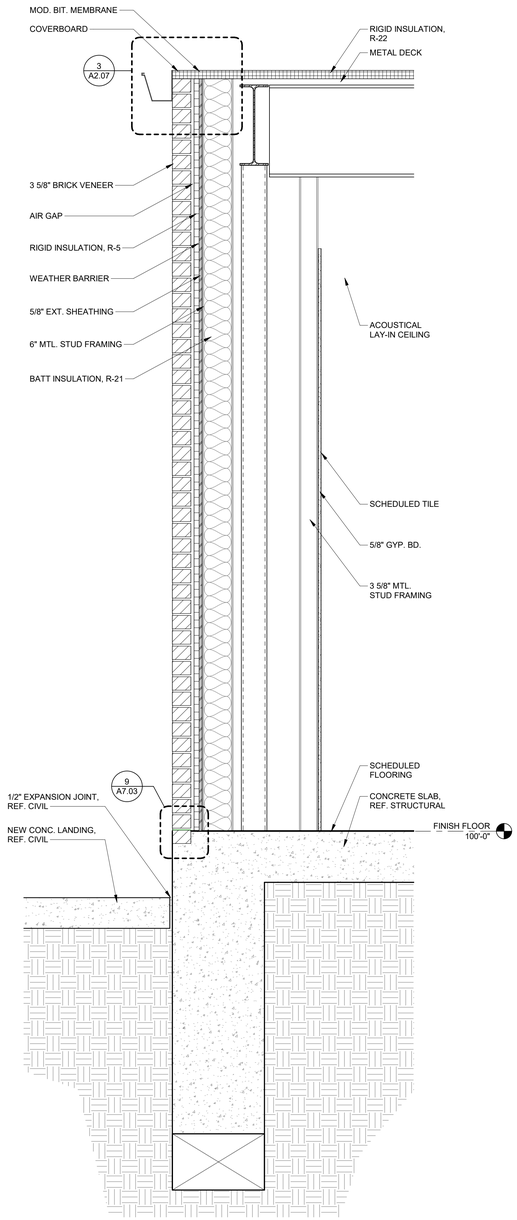
4 SIDE KITCHEN ENTRANCE
Scale: 1" = 1'-0"



2 SOFFIT @ CAFETERIA
Scale: 1" = 1'-0"



3 INT. EXPANSION JOINT @ KITCHEN OFFICE
Scale: 1" = 1'-0"



1 WALL SECTION
Scale: 1" = 1'-0"

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WALL SECTIONS

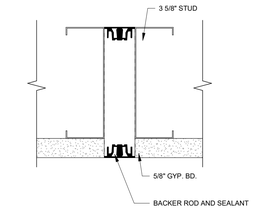
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DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

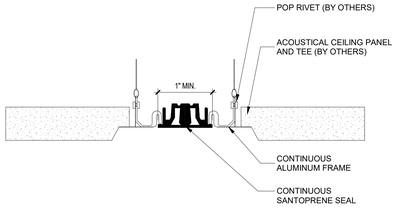
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PROJECT NO.: 2022200

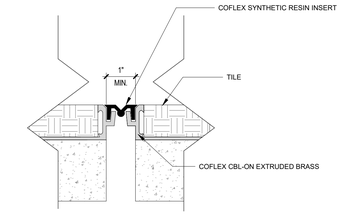
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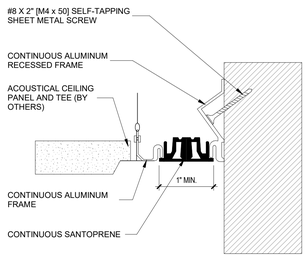
4 EXPANSION JOINT @ SOFFIT
Scale: 6" = 1'-0"



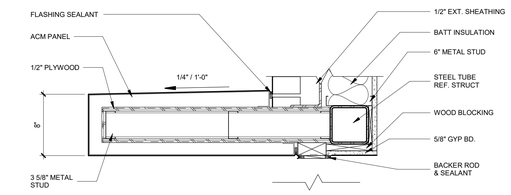
7 EXPANSION JOINT @ ACOUSTIC TILE
Scale: 1 1/2" = 1'-0"



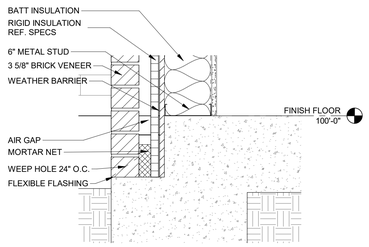
3 EXPANSION JOINT AT TILE FLOORING
Scale: 6" = 1'-0"



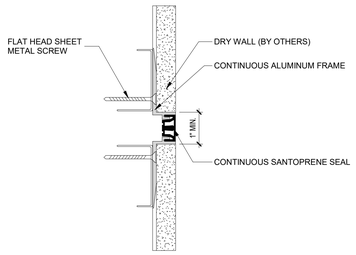
6 EXPANSION JOINT AT CEILING/WALL TRANSITION
Scale: 1 1/2" = 1'-0"



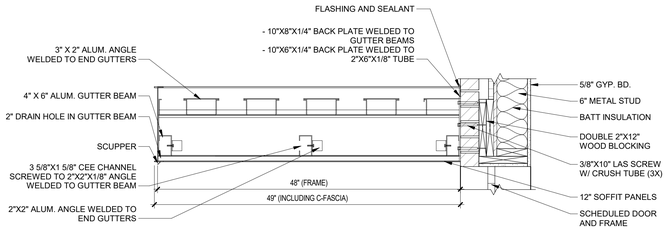
2 CANOPY @ CAFETERIA
Scale: 1 1/2" = 1'-0"



9 BRICK LEDGE
Scale: 1 1/2" = 1'-0"



5 EXPANSION JOINT @ DRYWALL
Scale: 1 1/2" = 1'-0"



1 CANOPY DTL
Scale: 1" = 1'-0"

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SECTION DETAILS

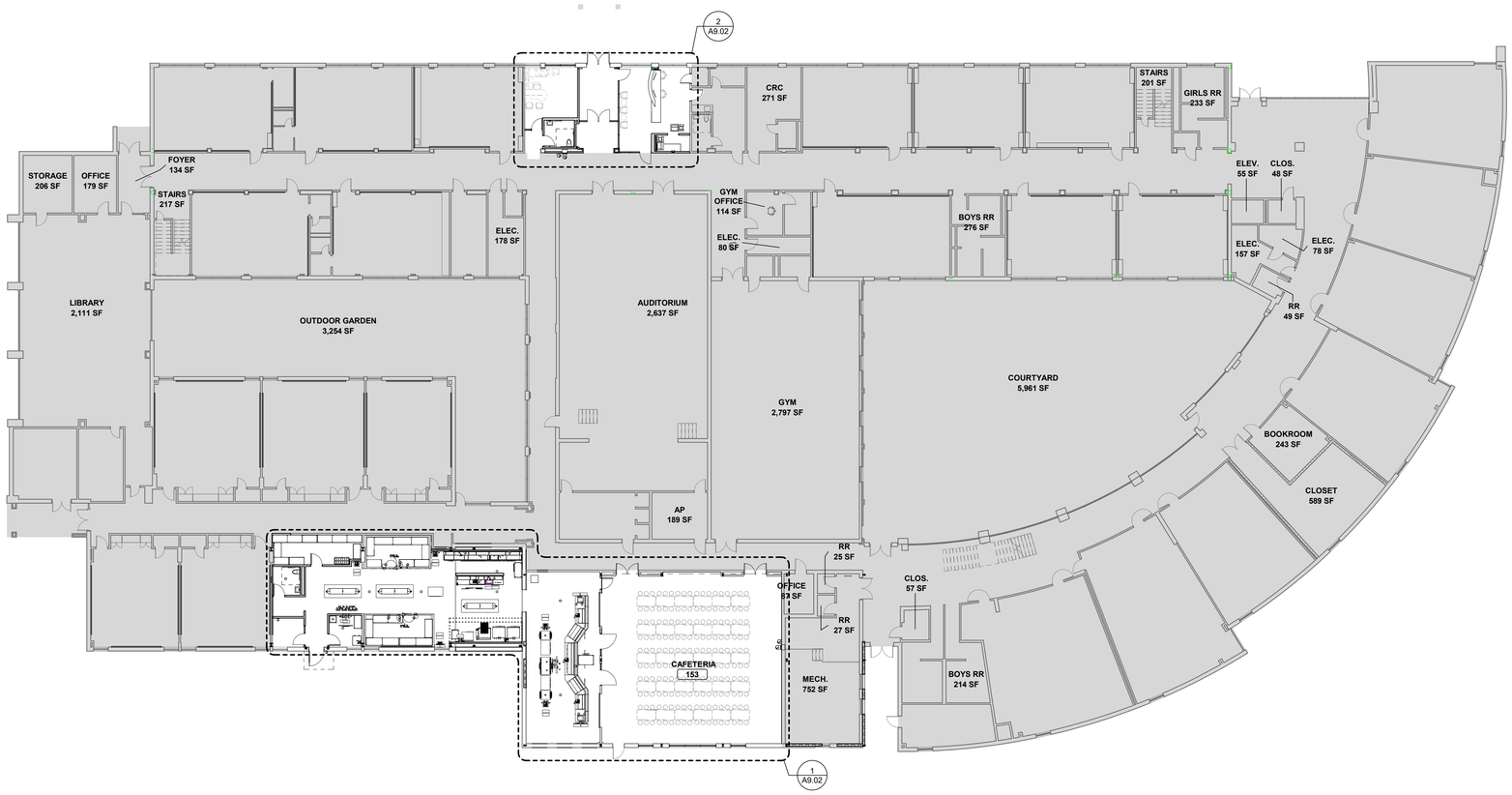
DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

A7.03

PROJECT NO.: 2022200

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PLAN NORTH

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

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OVERALL FURNITURE PLAN

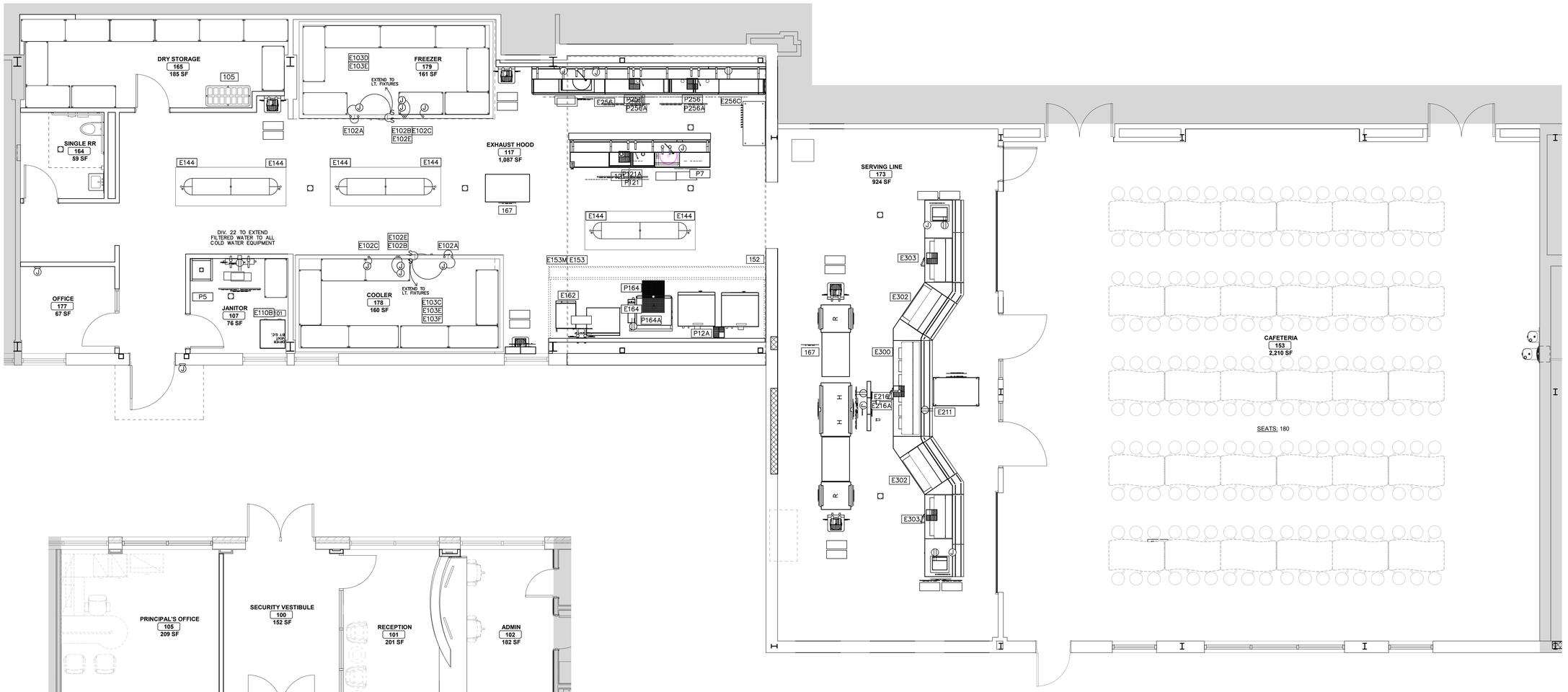
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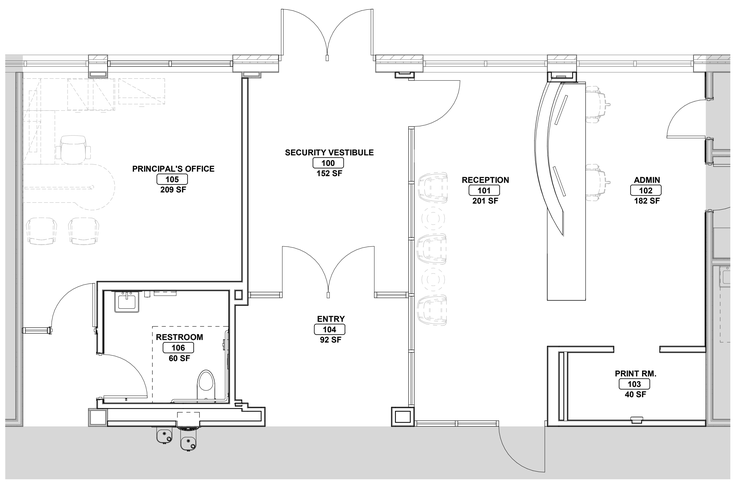
DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

A9.01

PROJECT NO.: 2022200

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PLAN NORTH

2 ENLARGED VESTIBULE FURNITURE PLAN (FOR REFERENCE ONLY)
Scale: 1/4" = 1'-0"

PLAN NORTH

1 ENLARGED CAFETERIA & KITCHEN FURNITURE PLAN (FOR REFERENCE ONLY)
Scale: 1/4" = 1'-0"

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ENLARGED FURNITURE PLAN

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

A9.02

PROJECT NO.: 2022200

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

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

C. Concrete Masonry: Building Code Requirements and Specification for Masonry Structures, The Masonry Society, TMS 402/602, 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. Structural Steel: Manual of Steel Construction, American Institute of Steel Construction Inc., ANSI/AISC 360, as referenced by the General Building Code.

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

Geotechnical engineer:	Alpha Testing
Report Number:	G231053
Date:	08.08.2023

DESIGN LOADS

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

1.	Ceiling and Mechanical at roof	10 psf
2.	Ceiling and Mechanical at floors	5 psf
3.	Roofing and rigid insulation	10 psf
4.	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.	Gymnasiums, main floors	100	N/A
3.	Kitchens (Commercial)	150	Equip. Wt.
4.	Mechanical rooms, typical	150	Equip. Wt.
5.	Restrooms	60	2000
6.	Roof - Unreduced (see Note 1)	20	N/A
7.	Schools		
	a. Classrooms	40	N/A
	b. First floor corridors	100	N/A
8.	Storage		
	a. Light	125	N/A
	b. Heavy	250	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. Live Load Reduction
1. Floor live loads have not been reduced in accordance with the General Building Code.
2. Roof live loads have not been reduced in accordance with the General Building Code.

D. Snow loads
1. Ground snow load, Pg — 5 psf

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

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

2. Components and cladding wind pressures:

Surface	(PSF)	Zone	Area At (ft2)
Exterior walls	+24.2	Interior and edge	10 or less
	-26.2	Interior	10 or less
	-32.3	Edge	10 or less
	+18.2	Interior and edge	500 or greater
	-20.2	Interior	500 or greater
	-20.2	Edge	500 or greater
Roof	-42.2	Interior	10 or less
	-55.6	Edges	10 or less
	-75.8	Corners	10 or less
	-32.9	Interior	100 or greater
	-43.7	Edges	100 or greater
	-52.0	Corners	100 or greater

Edge and Corner Zone Distance (a) = 8'-0"

- 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.

F. 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)	0.095
	ii. S1 (%g)	0.054
d.	Site Class	C
e.	Spectral Response Coefficients	
	i. SDS	0.082
	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

G. Mechanical/Kitchen Equipment Loads

EXCAVATION PROTECTION

A. Temporary retention or alternative protective systems shall be designed to resist the soil pressures stipulated in the referenced geotechnical report. In addition, the design shall consider surcharges created by construction equipment, excavation spoil, and other surface encumbrances.

B. Contractor shall comply with all Occupational Safety and Health Administration standards and all other regulatory agency standards regarding excavation safety.

C. Contractor shall submit drawings for any proposed excavation protection system that are sealed by a professional engineer licensed in the state having jurisdiction at the project site.

DRILLED PIERS

A. Pier design is based on the following design criteria:
1. Allowable end bearing: 60.0 KSF
2. Side friction: 8.0 KSF
3. Uplift side friction: 2.0 KSF
4. Uplift design depth:12 FT
5. Side friction (uplift resistance): 6.0 KSF
6. Minimum penetration into bearing stratum: 2 FT

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

C. Bearing stratum shown on the pier details is gray shaly limestone.

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

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

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

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

DRILLED PIERS (CONTINUED)

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:

	Strength psi	Agg. Type	Agg. Size	Max w/c	Exposure Class
Drilled Piers	3000	NWT	1-1/2"	----	F0
Grade Beams	4500	NWT	1"	0.45	F2
Exterior Equipment Pads	4500	NWT	1"	0.45	F2
Structural Beams and Slab (non-P.T.)	4000	NWT	1"	----	F0

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

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

C. Fly ash shall not be used in architecturally exposed concrete.

D. 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.

E. 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.

F. 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.

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

I. 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. Beams	1 1/2" Int., 2" ext. exposure
2. Columns	1 1/2" Int., 2" ext. exposure
3. Drilled Piers	3"
4. Formed grade beams	1 1/2" top, 2" sides, 3" bottom
5. One way slabs	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 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. 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

B. Adhesive Anchors:
Note: Hilti anchor rods & Hilti acrylic 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 110+ (ICC-ES ESR-3298), 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+ (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 110+ (ICC-ES ESR-3298), 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: 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 110+	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.

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

DALLAS ISD BOND 2020
OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

DALLAS INDEPENDENT SCHOOL DISTRICT

McKISSACK McKISSACK

ORG 109 DISD Blair Elementary

7720 Gaylglen Drive, Dallas, TX

STRUCTURAL NOTES

DRAWING RECORD	
DATE	DESCRIPTION
07/02/25	95% CD - FINAL
09/26/25	100% REVIEW
11/16/25	100% CD - ISSUE FOR BID

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
972.392.7340
DALLAS, TEXAS 75207
JQENG.COM
PROJECT NO: 4220258
TBPE FIRM F-7986
STATE OF TEXAS 112676 CHRISTOPHER A. BAKER LICENSED PROFESSIONAL ENGINEER

S1.01

PROJECT NO.: 2022200

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

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. Steel pipe shall conform to ASTM A53, Type E or S, Grade B.
   e. Round hollow structural shape members shall conform to ASTM A500, Grade C, Fy = 46 ksi.
   f. Square or rectangular hollow structural shape members shall conform to ASTM A500, Grade C, Fy = 50 ksi.
   g. Structural steel plate shall conform to ASTM A36.
   h. Any other steel shall conform to ASTM A36.
   i. 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. Shelf angles
   b. Parapet wall supporting members
   c. Window washing support members
   d. All embedded plates in concrete
   e. Building cladding support steel in space not air conditioned and/or exposed to moisture outside the exterior waterproofing surface if any.
   f. Railing exposed to weather.
   g. Examine the Architectural and Structural Drawings for other items required to be hot dipped galvanized. Galvanize all nuts, bolts, and washers used in connection with such steel. Field welded connections shall have welds protected with "Z.R.C. Cold Galvanizing Compound" as manufactured by Z.R.C. Company.

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

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

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 = ".
   b. Axial forces indicated as "A = ".
   c. 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. A value of U= 0.9 shall be used for HSS connection design.
6. 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.
7. Moment connections with moment values not indicated on the Structural Drawings, shall be welded to develop the full capacity of the member.
8. 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.
9. In general, shop connections shall be bolted or welded and field connections shall be bolted.
10. 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. Base Plates
1. Column base plates shall be set to the elevation indicated on the Structural Drawings and leveled using shims or by double nuts on anchor bolts. Base plates shall then be grouted with a non-shrink, high strength nonmetallic grout. Tighten anchor bolts after supported members have been positioned and plumbed.
2. Hole sizes in base plates shall be oversized with plate washers per AISC Table 14-2, and welded to the baseplate per AISC minimum, U.N.O.

I. Anchor rods shall be:
1. Typical: ASTM F1554 Gr. 36, Weldable.

J. 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.

METAL DECKS

A. Metal Roof Deck
1. Metal Roof Deck Schedule:

Location	Gauge	SDI Deck Type	Deck Depth (in)	Sheet Width (in)	Min. Ix (in4)	Min. Sp (in3)	Min. Sn (in3)
Typ. UNO	20	WR	1.5	36	0.212	0.234	0.245

Sp = positive section modulus in3
Sn = negative section modulus in3
I = moment of inertia in4

2. Roof deck shall be galvanized as indicated on the Structural Drawings.
3. Sheet steel for galvanized roof deck and accessories shall conform to ASTM A653, Structural Quality, with a minimum yield strength of 33 ksi. Galvanizing shall conform to ASTM A653 with a minimum coating of (G60 OR G90) as defined in A653.
4. Roof deck shall be continuous over four or more supports.
5. Place deck panels on structural supports and adjust to final position with ends lapped 2 inches over structural supports. Provide minimum end bearing of 2 inches.
6. Roof deck connections shall be as follows:

Location	Support Connx Pattern	Support Fastener	Sidelap Fastener/ No per span
Typical Building	36/7	5/8 PW	#10 Tek/ 5

At exterior sides and all beams parallel to deck span provide puddles welds at 12" on centers.
See Design Wind Load information for "a" dimension and Interior Fields, Perimeter Band, Ridge Band, and Corner Zones wind loads.
PW = Puddle Weld
7. Power driven fasteners shall be selected by the Contractor for the combinations of deck gauge and deck support member thickness. Submit proposed fasteners with complete manufacturer's information, including diaphragm shear values for the Engineer to review.
8. Puddle welds shall be 5/8" minimum diameter and shall be made through weld washers for decking lighter than 22 gauge.
9. Mechanical, electrical and plumbing systems shall not be supported by the metal roof deck.

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

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 Stairs
3. Guardrail and Handrail Systems
4. Curtainwall Systems
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. Cold Formed Steel Framing
8. Pre-engineered Canopies

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
BEAM SIZE; NO. OF HEADED STUDS; WXXxXX (X) C=X"; R=XX; REACTION (FACTORED LOAD); CAMBER	COMPOSITE STEEL BEAM
M, A, R, V, H, T, C; ELEVATION PLAN SECTION	SCHEMATIC FORCE DIAGRAM
PIER TYPE, T.O.PIER EL.; T.O.PIER DETAIL	CONCRETE PIER
FTG. TYPE, T.O.FTG. EL.; T.O.FTG. DETAIL	CONCRETE FTG.
MOMENT CONNECTION; BEAM SIZE; WXXxXX; MOMENT CONNECTION	STEEL BEAM MOMENT CONNECTION
COLUMN SIZE; BASE PLATE TYPE	STEEL COLUMN
C1	CONCRETE COLUMN
#	NEW COLUMN GRID
#	EXISTING COLUMN GRID
	WELDED METAL BAR GRATING
	SLAB OR DECK SPAN DIRECTION
	DROP IN SLAB OR DECK
	DROP AND SLOPE IN SLAB OR DECK
	SLOPE IN SLAB OR DECK
BRACE-x	VERTICAL STEEL BRACE
	STEEL BEAM SPLICE
	MASONRY WALL
	WINDOW IN MASONRY WALL
	DOOR IN MASONRY WALL
	CONCRETE WALL
	EXISTING CONSTRUCTION
	MISCELLANEOUS - SEE PLAN
	DEMO
	ROOF TOP UNIT (RTU)

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

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STRUCTURAL NOTES, SYMBOLS LEGEND & ABBREVIATIONS

DRAWING RECORD

DATE	DESCRIPTION
07/02/25	95% CD - FINAL
09/26/25	100% REVIEW
11/16/25	100% CD - ISSUE FOR BID

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
972.392.7340
DALLAS, TEXAS 75207
JQENG.COM
PROJECT NO: 4220258
TBPE FIRM F-7986
STATE OF TEXAS CHRISTOPHER A. BAKER 112676 LICENSED PROFESSIONAL ENGINEER

S1.02

PROJECT NO.: 2022200

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		
YES	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		
YES	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		
YES	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	--		
YES	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 TASKS FOR BOLTING STRUCTURAL STEEL[1] (AISC 360-16 Tables N5.6)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Inspection tasks prior to bolting:				
YES	a. Manufacturer's certifications available for fastener materials	X	--	AISC 360-16 N5.6-1	1705.2.1
YES	b. Fasteners marked in accordance with ASTM requirements	--	X		
YES	c. Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)[1,2]	--	X		
YES	d. Correct bolting procedure selected for joint detail[2]	--	X		
YES	e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	--	X		
YES	f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	--	X		
YES	g. Proper storage provided for bolts, nuts, washers and other fastener components	--	X		
	2. Inspection tasks during bolting:				
YES	a. Fastener assemblies placed in all holes and washers and nuts are postioned as required[2]	--	X	AISC 360-16 N5.6-2	1705.2.1
YES	b. Joint brought to the snug-tight condition prior to the pretensioning operation[2]	--	X		
YES	c. Fastener component not turned by the wrench prevented from rotating[2]	--	X		
YES	d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	--	X		
	3. Inspection tasks after bolting:				
YES	a. Document acceptance or rejection of bolted connections	X	--	AISC 360-16 N5.6-3	1705.2.1

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.

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				
YES	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
YES	b. Document acceptance or rejection of deck and deck accessories	X	--		
	2. Inspection or Execution Tasks After Deck Placement				
YES	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
YES	b. Verify deck materials are represented by the mill certifications that comply with the construction documents	X	--		
YES	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. Manufracturer 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. Manufracturer 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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SPECIAL INSPECTIONS

DRAWING RECORD

DATE	DESCRIPTION
07/02/25	95% CD - FINAL
09/26/25	100% REVIEW
11/16/25	100% CD - ISSUE FOR BID

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340 JQENG.COM
PROJECT NO: 4220258 TBPE FIRM F-7986

STATE OF TEXAS CHRISTOPHER A. BAKER 112676 LICENSED PROFESSIONAL ENGINEER

S1.03

PROJECT NO.: 2022200

REQUIRED SPECIAL INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC TABLE 1705.2.3)					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Installation of open-web steel joists and joist girders.				
YES	a. End connections - welding or bolted.	--	X	SJI Specs per IBC 2207.1	1705.2.3
YES	b. Bridging - horizontal or diagonal	--			
	1. Standard bridging	--	X	SJI Specs per IBC 2207.1	1705.2.3
	2. Bridging that differs from the SJI specifications listed in IBC Section 2207.1	--	X		1705.2.3

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:				
YES	a. Application of prestressing forces	X	--	ACI 318: 26.10	--
YES	b. Grouting of bonded prestressing tendons	X	--	ACI 318: 26.10	
YES	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:				
YES	a. Installation of the embedded parts	X	--	ACI 318: 26.13.1.3	--
YES	b. Completion of the continuity of reinforcement across joints.	X	--	ACI 550.5	
YES	c. Completion of connections in the field.	X	--		
YES	12. Inspect installation tolerances of precast concrete diaphragm for compliance with ACI 550.5.	--	X	ACI 318: 26.13.1.3	--
YES	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. 10.6 & 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 S a.	--	X[3]	Manufacturer's specifications & printed installation instructions

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

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

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

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SPECIAL INSPECTIONS

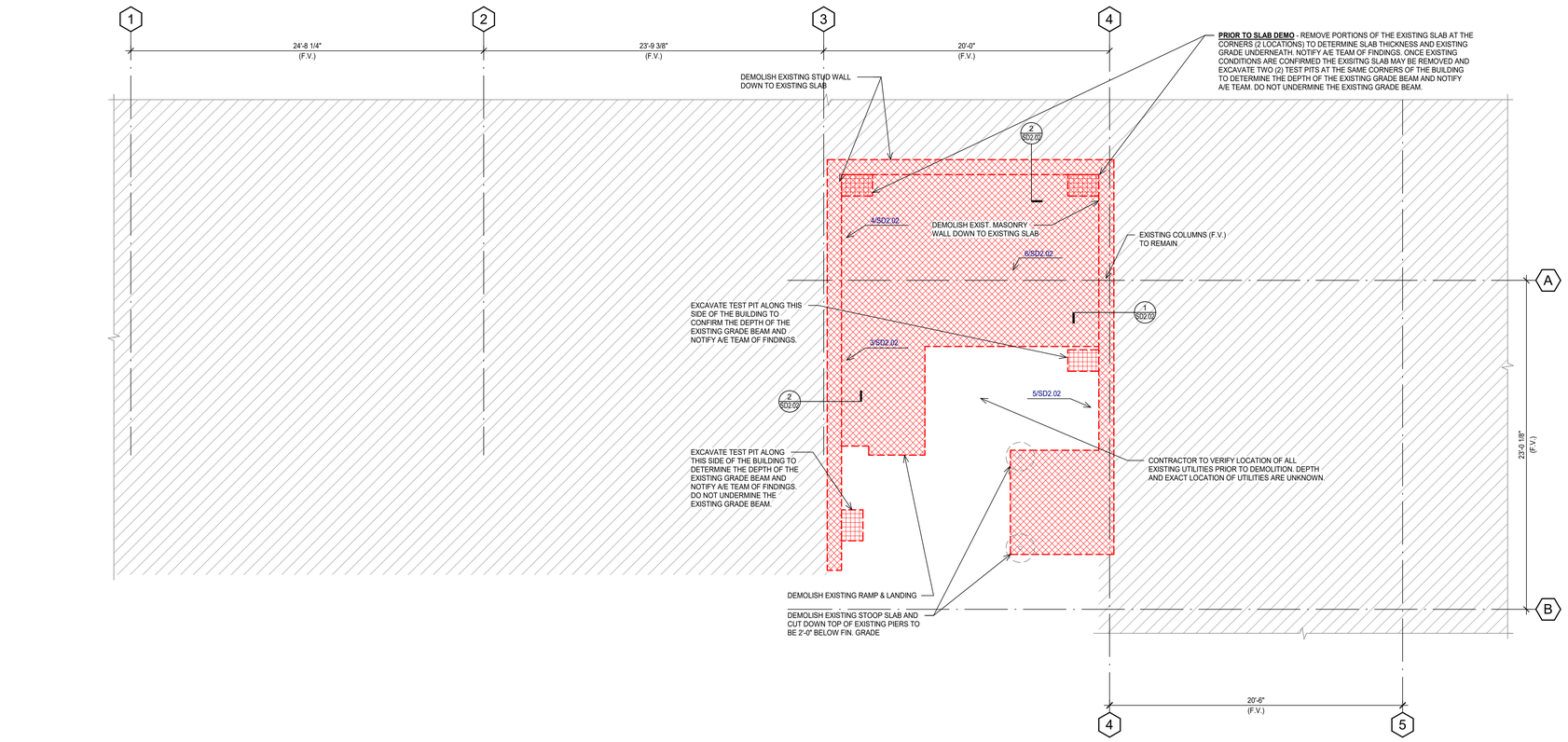
DRAWING RECORD	
DATE	DESCRIPTION
07/02/25	95% CD - FINAL
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11/16/25	100% CD - ISSUE FOR BID

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PROJECT NO: 4220258 TBPE FIRM F-7986

STATE OF TEXAS CHRISTOPHER A. BAKER 112676 LICENSED PROFESSIONAL ENGINEER

S1.04

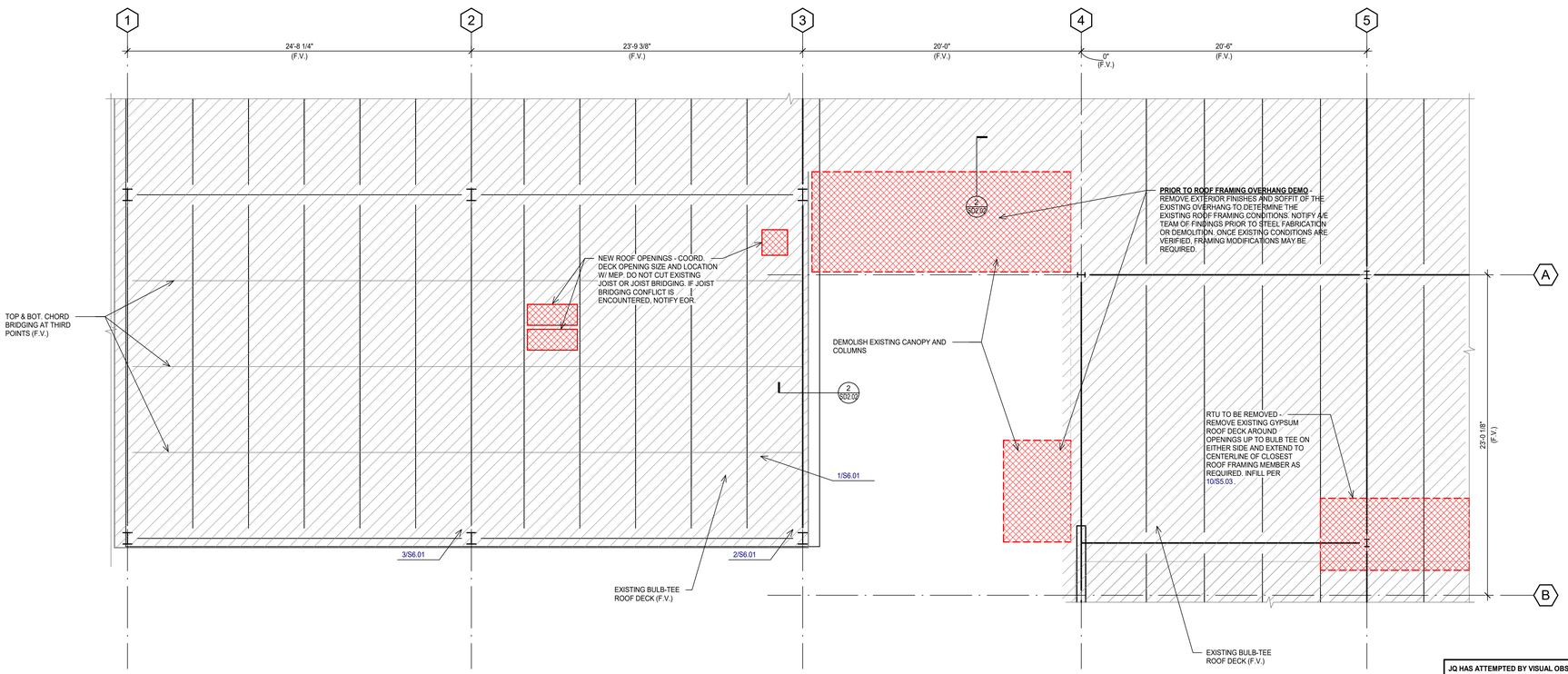
PROJECT NO.: 2022200



north

1 KITCHEN FOUNDATION DEMOLITION PLAN

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



north

2 KITCHEN ROOF FRAMING DEMOLITION PLAN

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

JQ 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.

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972.392.7340
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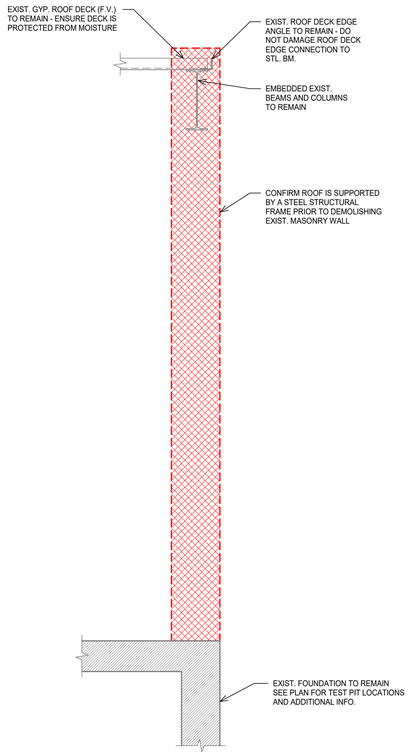
KITCHEN FOUNDATION & ROOF FRAMING DEMOLITION PLANS

DRAWING RECORD

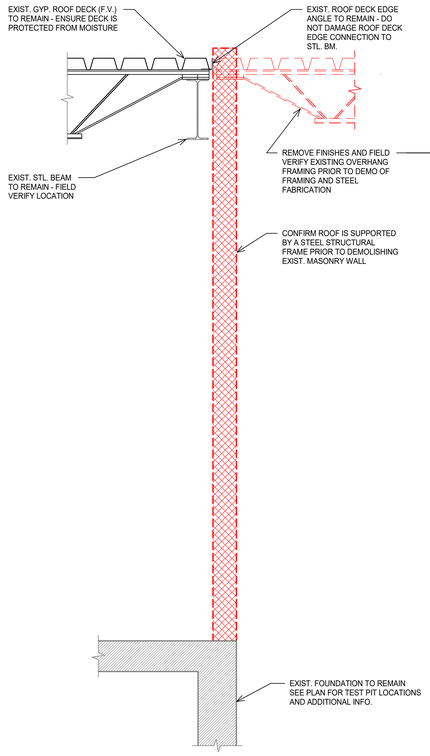
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07/02/25	95% CD - FINAL
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11/16/25	100% CD - ISSUE FOR BID

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1 TYPICAL WALL DEMOLITION SECTION
NO SCALE



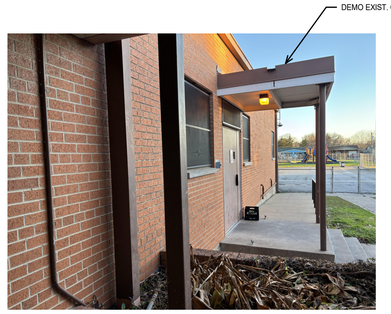
2 TYPICAL WALL DEMOLITION SECTION
NO SCALE



3 EXISTING CLASSROOM EXTERIOR
NO SCALE



4 EXISTING KITCHEN EXTERIOR
NO SCALE



5 EXISTING KITCHEN EXTERIOR
NO SCALE



6 EXISTING PLANTER BOX & SLAB
NO SCALE

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

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JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
DALLAS, TEXAS 75207
972.392.7340
JQENG.COM
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LICENSED PROFESSIONAL ENGINEER

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1600 N. Collins Blvd., Suite 1000
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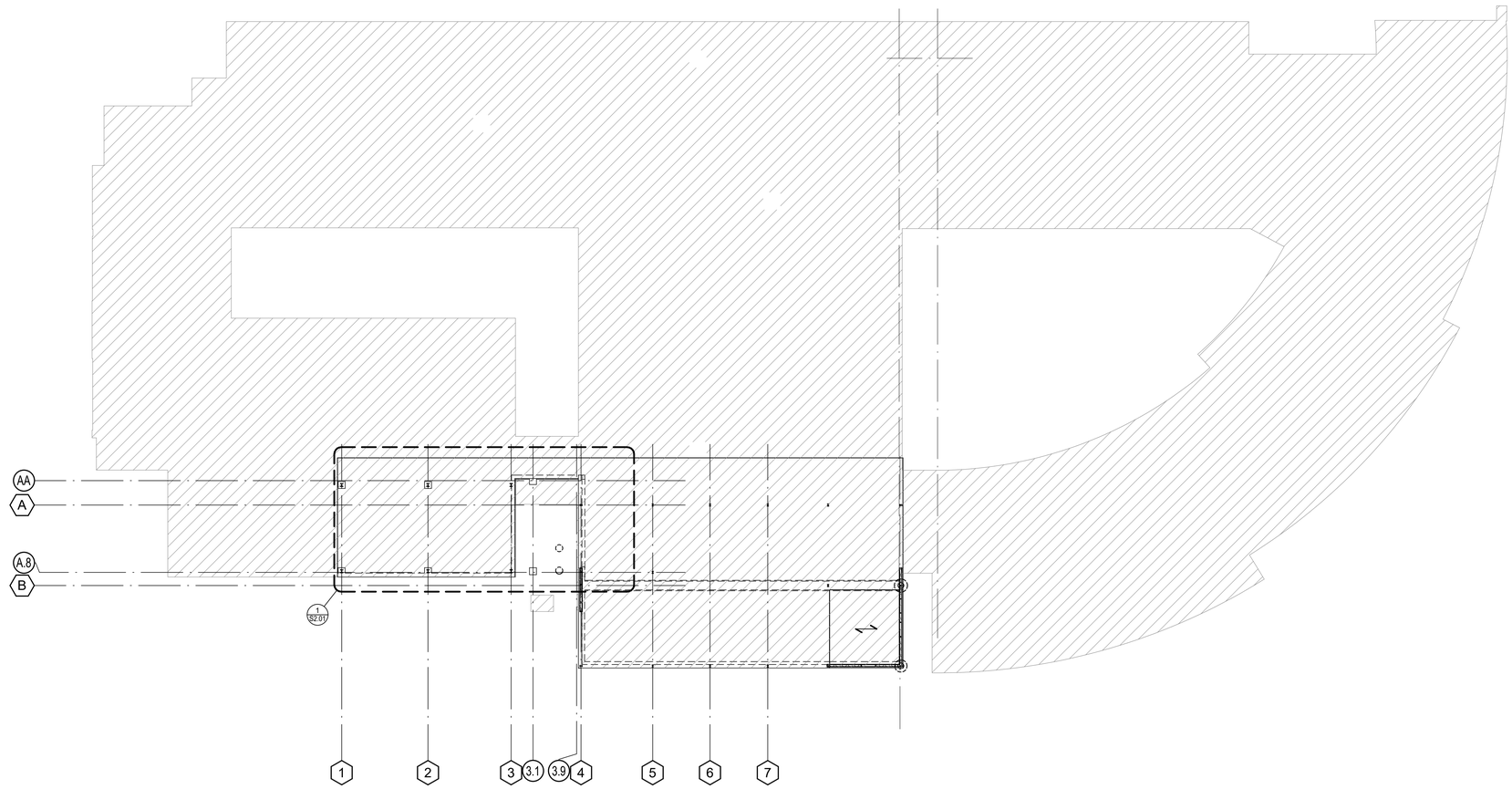
KITCHEN DEMOLITION DETAILS & PHOTOGRAPHS

DRAWING RECORD

DATE	DESCRIPTION
07/02/25	95% CD - FINAL
09/26/25	100% REVIEW
11/16/25	100% CD - ISSUE FOR BID

SD2.02

PROJECT NO.: 2022200



north

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

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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.

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DALLAS, TEXAS 75207
972.392.7340
JQENG.COM
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CHRISTOPHER A. BAKER
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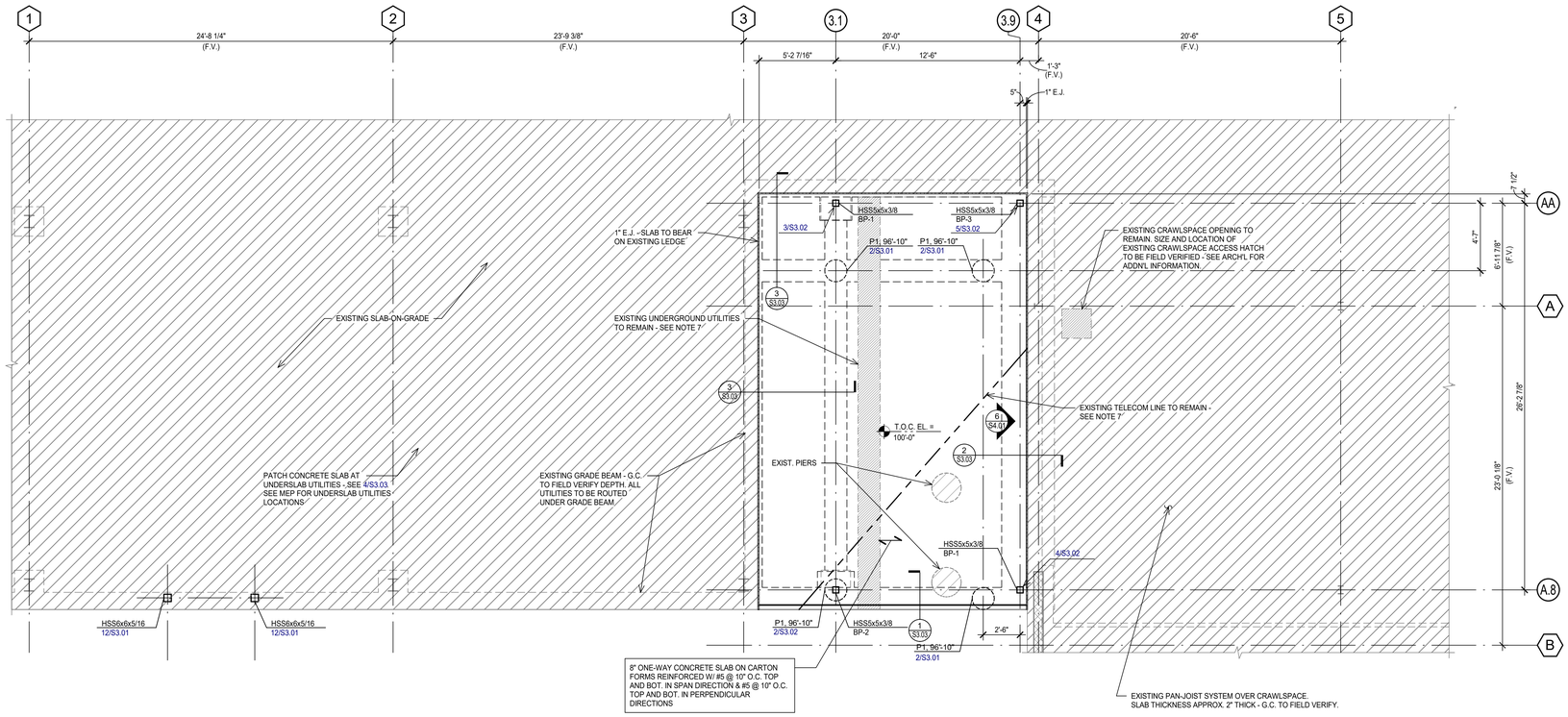
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OVERALL FOUNDATION PLAN

DRAWING RECORD	
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09/26/25	100% REVIEW
11/16/25	100% CD - ISSUE FOR BID

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PROJECT NO.: 2022200



north

1 KITCHEN FOUNDATION PLAN

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

PLAN NOTES:

1. FINISH FLOOR ELEVATION = 100'-0", UNLESS NOTED OTHERWISE. ACTUAL ELEVATION 440.11' = 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. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF FLOOR PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
5. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF STRUCTURED STOOPS AT ENTRIES.
6. CENTERLINES OF PIERS NOT SPECIFICALLY LOCATED ON PLAN BY NOTE OR DIMENSION SHALL BE LOCATED AS FOLLOWS:

   A. SUPPORTING FREESTANDING COLUMNS: CENTERLINES OF COLUMN.

   B. 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.

   C. COLUMNS EMBEDED IN GRADEBEAMS OR WALLS (PILASTERS): CENTERLINES OF THE COLUMN.

7. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO DRILLING PIERS. DEPTH AND EXACT LOCATION OF UTILITIES ARE UNKNOWN.
8. TOP AND BOTTOM REINFORCING IN FLAT SLAB SHALL BE PLACED IN PROPER SEQUENCE:
   - E-W TOP BARS - PLACED 4TH (TOP BARS)
   - N-S TOP BARS - PLACED 3RD
   - N-S BOT. BARS -PLACED 2ND
   - E-W BOT. BARS - PLACED 1ST (BOTTOM BARS)

SHEET INDEX:

STRUCTURAL NOTES	-S1.01, S1.02
TYPICAL DETAILS	-S3.01, S3.02, S3.03
PIER SCHEDULE	-S3.01
BASE PLATE SCHEDULE	-S5.01

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KITCHEN FOUNDATION PLAN

DRAWING RECORD

DATE	DESCRIPTION
07/02/25	95% CD - FINAL
09/26/25	100% REVIEW
11/16/25	100% CD - ISSUE FOR BID

JQ 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.

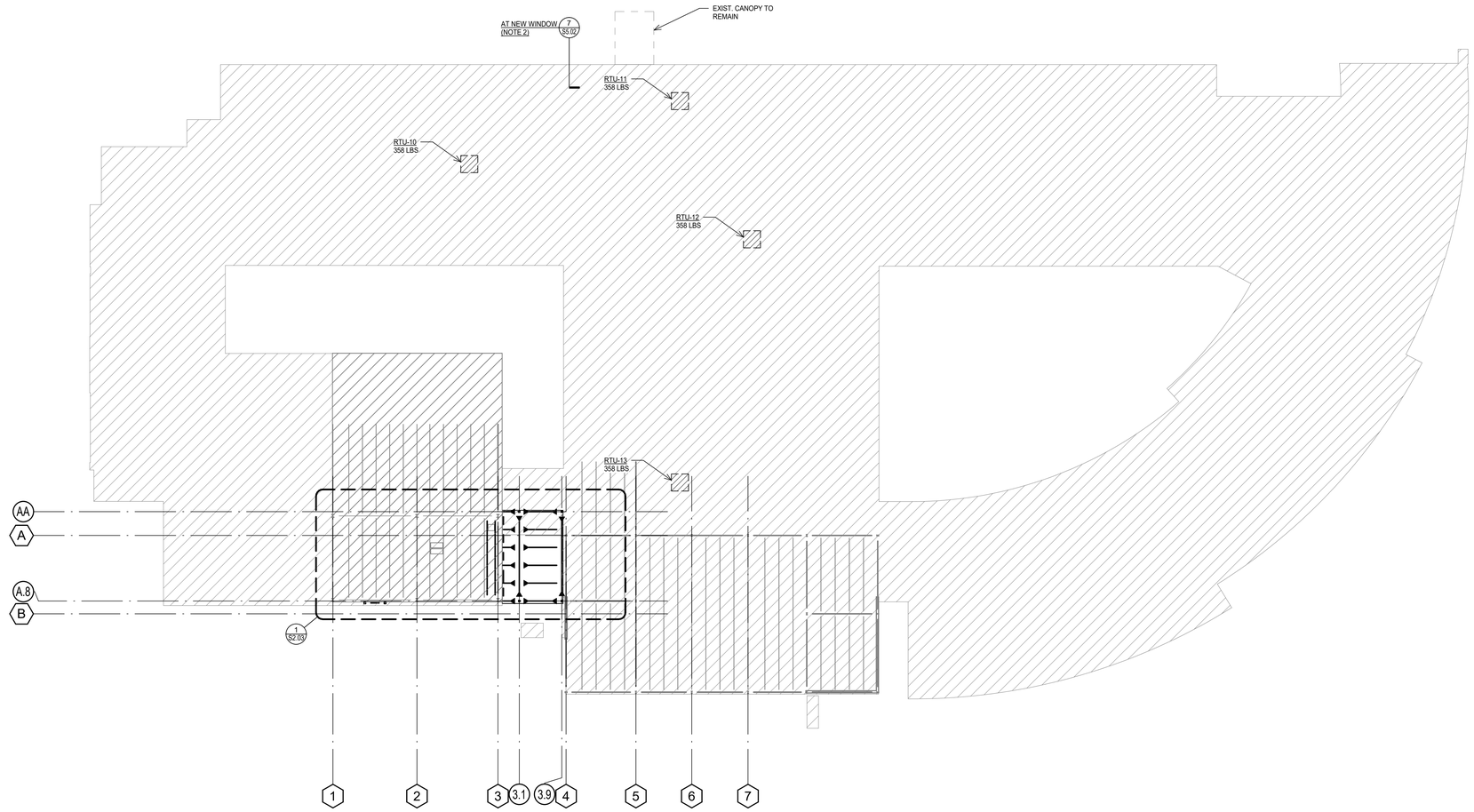
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972.392.7340 JQENG.COM
PROJECT NO: 4220258 TBPE FIRM F-7986

STATE OF TEXAS CHRISTOPHER A. BAKER 112676 LICENSED PROFESSIONAL ENGINEER

S2.01

PROJECT NO.: 2022200



north

1 OVERALL ROOF FRAMING PLAN

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

PLAN NOTES:

1. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
2. SEE ARCH'L FOR LOCATION AND EXTENTS.

SHEET INDEX:

STRUCTURAL NOTES	-S1.01, S1.02
TYPICAL DETAILS	-S5.01, S5.02, S5.03

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

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972.392.7340
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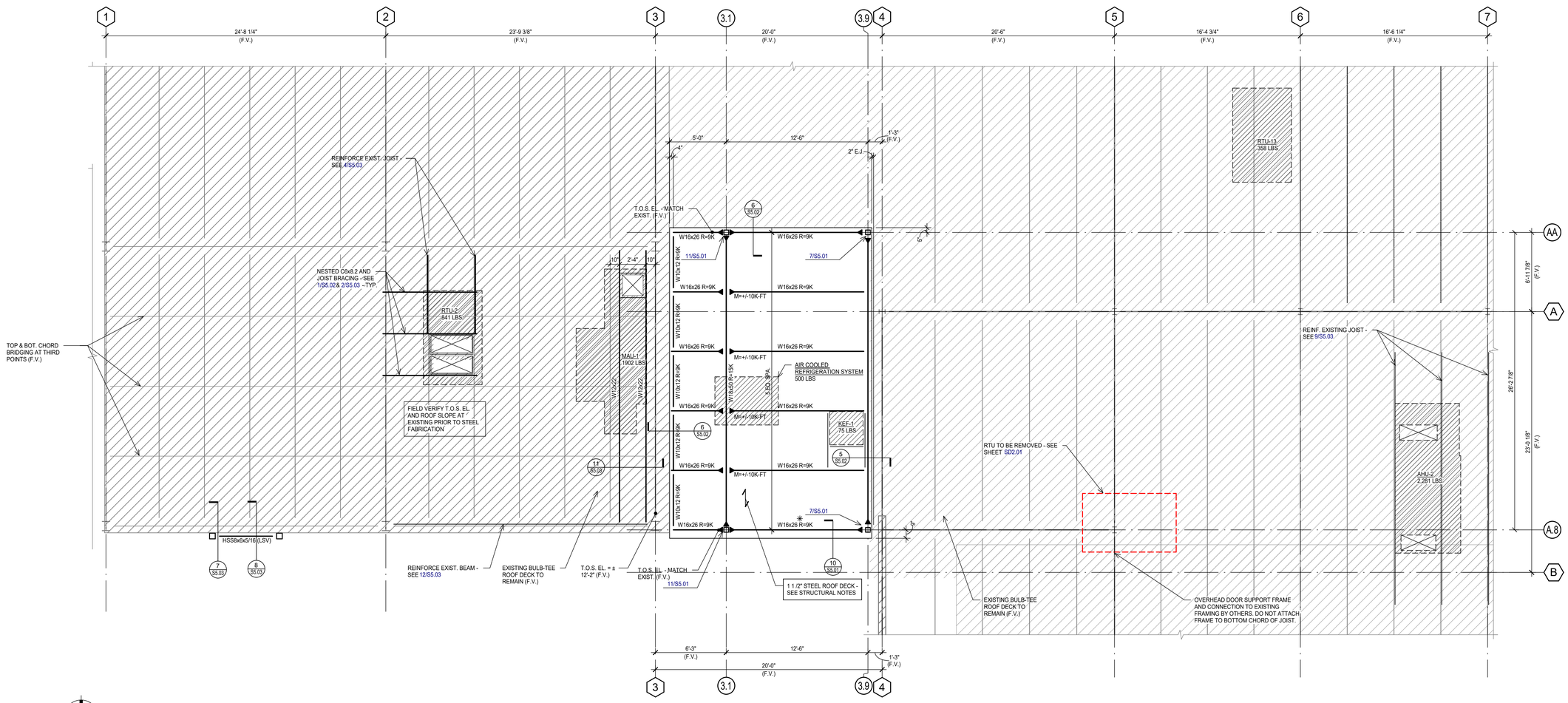
OVERALL ROOF FRAMING PLAN

DRAWING RECORD

DATE	DESCRIPTION
07/02/25	95% CD - FINAL
09/26/25	100% REVIEW
11/16/25	100% CD - ISSUE FOR BID

S2.02

PROJECT NO.: 2022200



north

1 KITCHEN ROOF FRAMING PLAN

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

PLAN NOTES:

1. TOP OF STEEL ELEVATION (T.O.S. EL.) = TOP OF BEAM, JOIST, OR MEMBER SUPPORTING ROOF DECK = BOTTOM OF DECK.
2. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
3. STEEL BEAMS SHALL BE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
4. PROVIDE BEAM FLANGE BRACING PER 5/S5.03 WHERE NOTED "✳" ON PLAN.

SHEET INDEX:

STRUCTURAL NOTES	-S1.01, S1.02
TYPICAL STEEL SECTIONS & DETAILS	-S5.01, S5.02, S5.03

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

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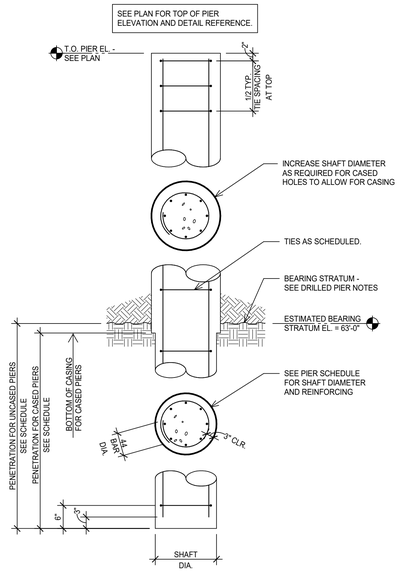
KITCHEN ROOF FRAMING PLAN

DRAWING RECORD

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S2.03

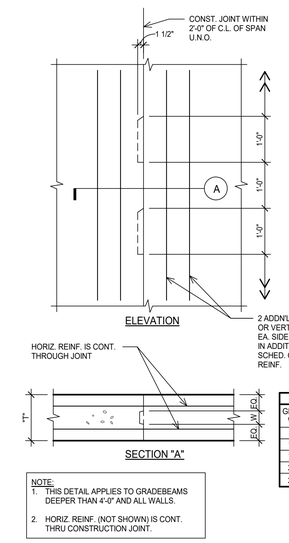
PROJECT NO.: 2022200



ELEVATION

PIER SCHEDULE - STRAIGHT SHAFT					
MARK	SHAFT DIAMETER	VERTICAL BARS	TIES	PENET.	CAPACITY (ASD)
P1	1'-6"	6-#6	#3 @ 10" O.C.	6'-0"	250 KIPS
P2	2'-0"	6-#8	#3 @ 10" O.C.	6'-0"	380 KIPS

1 TYPICAL CASED DRILLED PIER DETAIL
NO SCALE



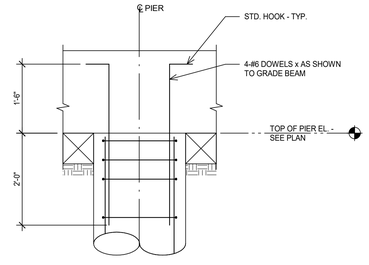
ELEVATION

SECTION "A"

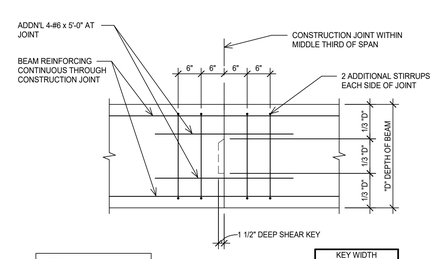
KEY WIDTH	
GRADEBEAM WIDTH "T"	W
≤ 12"	3 1/2"
12" TO 16"	5 1/2"
16" TO 20"	7 1/4"
20" TO 24"	9 1/4"
24" TO 30"	11 1/4"

NOTE:
1. THIS DETAIL APPLIES TO GRADEBEAMS DEEPER THAN 4'-0" AND ALL WALLS.
2. HORIZ. REINF. (NOT SHOWN) IS CONT. THRU CONSTRUCTION JOINT.

12 TYPICAL POST BASE CONNECTION DETAIL
NO SCALE



2 TYPICAL GRADE BEAM TOP OF PIER DETAIL
NO SCALE

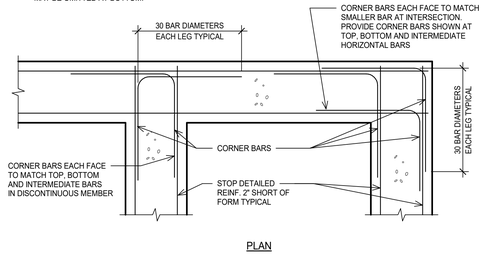


NOTES:
1. THIS DETAIL APPLIES TO BEAMS ≤ 4'-0" DEPTH.

ELEVATION

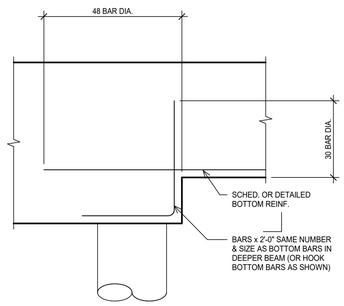
KEY WIDTH	
GRADEBEAM WIDTH "T"	W
< 12"	3 1/2"
12" TO 16"	5 1/2"
16" TO 20"	7 1/4"
20" TO 24"	9 1/4"
24" TO 30"	11 1/4"

5 TYPICAL CONCRETE BEAM CONSTRUCTION JOINT DETAIL
NO SCALE



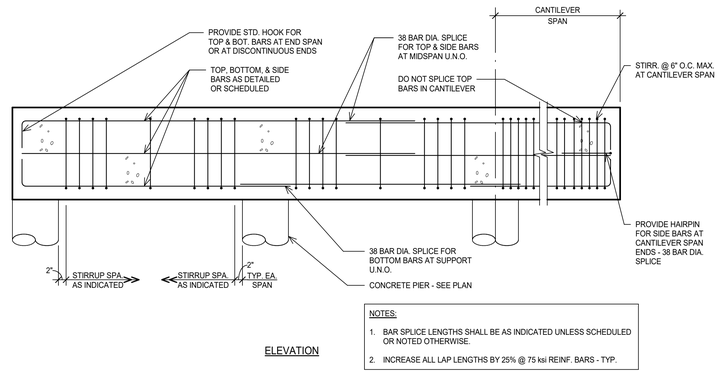
PLAN

9 TYPICAL CORNER BARS AT WALL OR GRADE BEAM INTERSECTION DETAIL
NO SCALE



ELEVATION

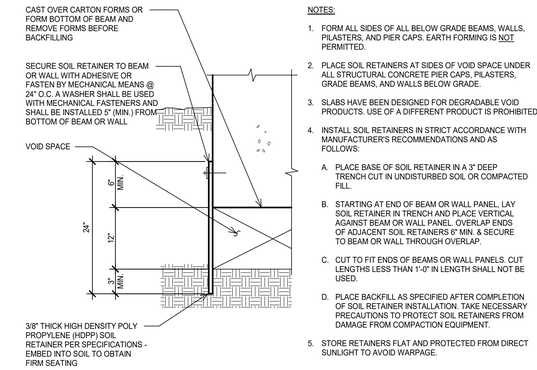
3 TYPICAL DROP IN BOTTOM OF GRADE BEAM DETAIL
NO SCALE



NOTES:
1. BAR SPLICE LENGTHS SHALL BE AS INDICATED UNLESS SCHEDULED OR NOTED OTHERWISE.
2. INCREASE ALL LAP LENGTHS BY 25% @ 75 ksi REINF. BARS - TYP.

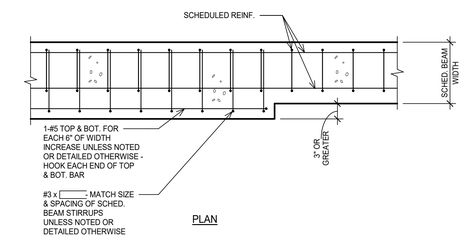
ELEVATION

6 TYPICAL GRADE BEAM REINFORCING DETAIL
NO SCALE



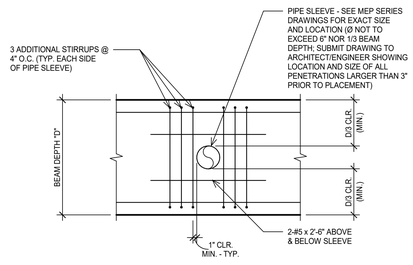
NOTES:
1. FORM ALL SIDES OF ALL BELOW GRADE BEAMS, WALLS, PILASTERS, AND PIER CAPS. EARTH FORMING IS NOT PERMITTED.
2. PLACE SOIL RETAINERS AT SIDES OF VOID SPACE UNDER ALL STRUCTURAL CONCRETE PIER CAPS, PILASTERS, GRADE BEAMS, AND WALLS BELOW GRADE.
3. SLABS HAVE BEEN DESIGNED FOR DEGRADABLE VOID PRODUCTS. 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.

4 TYPICAL HDPP SOIL RETAINER DETAIL
NO SCALE



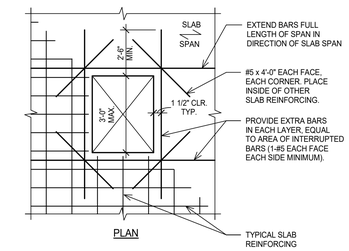
PLAN

7 TYPICAL BEAM WITH VARYING WIDTH REINFORCING DETAIL
NO SCALE



ELEVATION

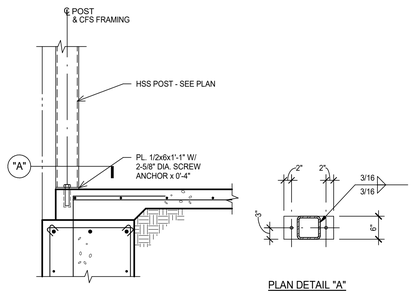
10 TYPICAL HORIZONTAL GRADE BEAM PENETRATION DETAIL
SCALE: 3/4" = 1'-0"



PLAN

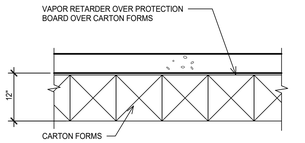
NOTE:
EXTRA BARS MAY BE OMITTED WHERE SIDES OF OPENING ARE FRAMED BY BEAMS.

11 TYPICAL REINFORCEMENT AT CONCRETE SLAB OPENING DETAIL
SCALE:NO SCALE



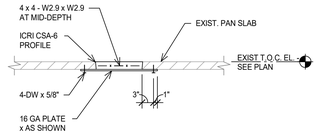
PLAN DETAIL "A"

13 TYPICAL SLAB-ON-VOID 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.

14 TYPICAL EXISTING HOLE INFILL DETAIL (4" DIAMETER OR SMALLER)
NO SCALE



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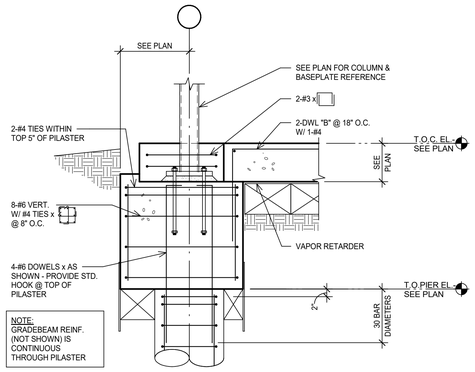
TYPICAL CONCRETE SECTIONS & DETAILS

DRAWING RECORD	
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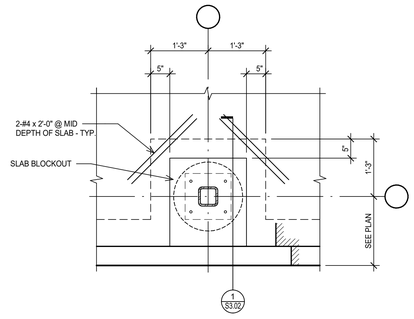
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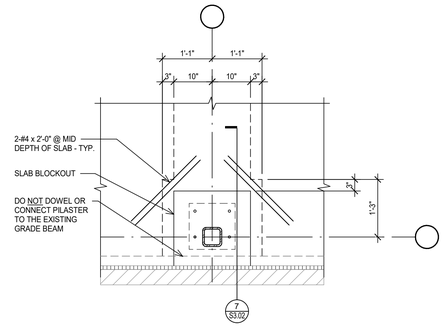


1 TYPICAL EXTERIOR TOP OF PIER DETAIL
SCALE:NO SCALE



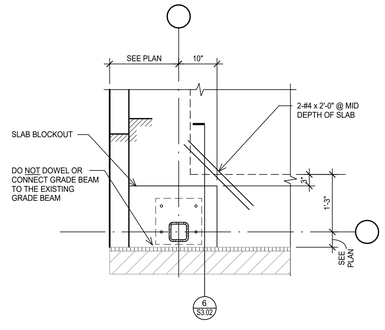
PLAN

2 TYPICAL EXTERIOR TOP OF PIER DETAIL
SCALE:NO SCALE



PLAN

3 TYPICAL COLUMN BASE PLATE AT GRADE BEAM
SCALE:NO SCALE



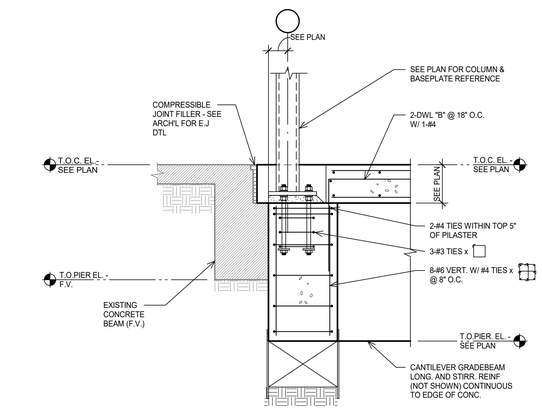
PLAN

4 TYPICAL COLUMN BASE PLATE AT GRADE BEAM
SCALE:NO SCALE

PLAN

5 TYPICAL COLUMN BASE PLATE AT GRADE BEAM
NO SCALE

6 FOUNDATION SECTION AT EXISTING BUILDING
SCALE: 3/4" = 1'-0"



7 FOUNDATION SECTION AT EXISTING BUILDING
NO SCALE

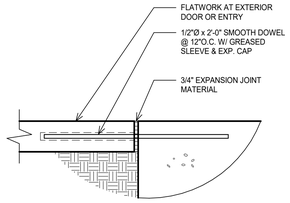
DOWEL SCHEDULE

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"

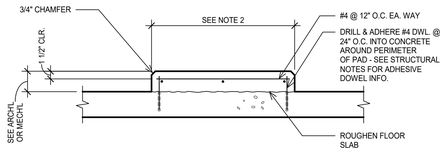
NOTES:

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 (2/2S)" 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.

8 DOWEL SCHEDULE
NO SCALE



9 TYPICAL FLATWORK AT EXTERIOR DOORS AND ENTRIES DETAIL
NO SCALE



NOTES:

1. EQUIPMENT PADS TO BE PROVIDED UNDER EQUIPMENT SUPPORTED ON SLAB-ON-GRADE OR ELEVATED SLABS.
2. COORDINATE MECHANICAL PAD SIZE, LOCATION AND EMBEDDED ITEMS WITH MEP DRAWINGS AND EQUIPMENT MANUFACTURER.

10 TYPICAL MECHANICAL EQUIPMENT PAD DETAIL
NO SCALE

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TYPICAL CONCRETE SECTIONS & DETAILS

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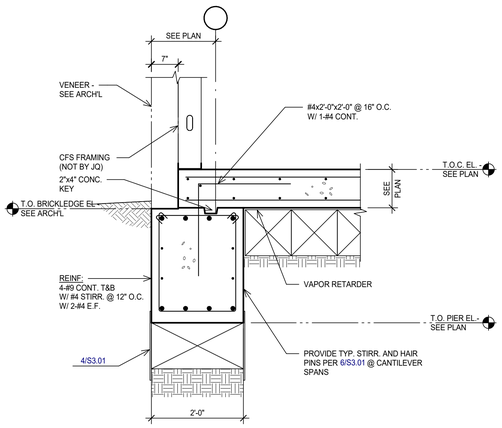
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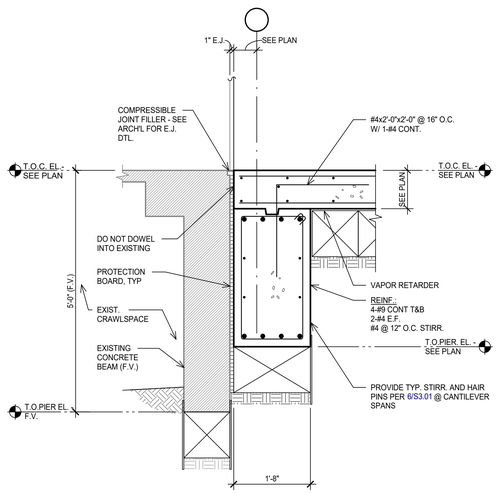
STATE OF TEXAS CHRISTOPHER A. BAKER 112676 LICENSED PROFESSIONAL ENGINEER

S3.02

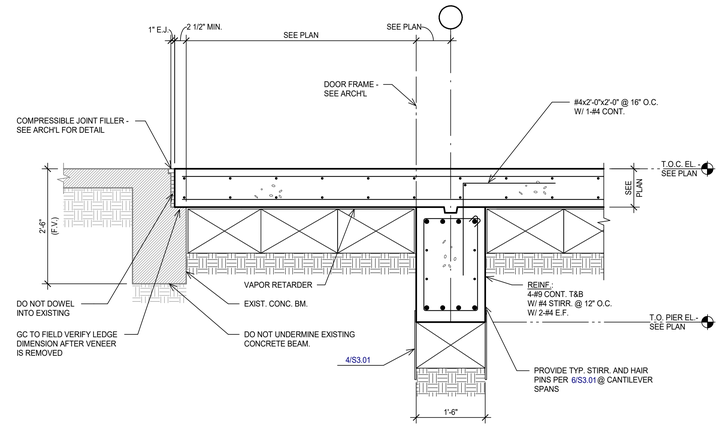
PROJECT NO.: 2022200



1 TYPICAL EXTERIOR GRADE BEAM DETAIL
SCALE: 3/4" = 1'-0"



2 FOUNDATION SECTION AT EXISTING BUILDING
SCALE: 3/4" = 1'-0"



3 TYPICAL INTERIOR GRADE BEAM DETAIL
SCALE: 3/4" = 1'-0"

NOTES:

1. CONTRACTOR SHALL PROVIDE CONSTRUCTION JOINTS OR CONTROL JOINTS AS REQ'D TO MATCH EXISTING CONSTRUCTION OR CONTROL JOINTS, OR 10'-0" O.C. MAX.

2. UTILITY TRENCH BACKFILL SHALL BE ONE OF THE FOLLOWING:
   a. AS SPECIFIED IN MECHANICAL, ELECTRICAL, AND/OR PLUMBING SPECIFICATIONS.
   b. COMPACTED SELECT FILL:
      1. FILL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS. SELECT FILL SHALL CONSIST OF HOMOGENEOUS SOILS FREE FROM ORGANIC MATTER, DEBRIS, AND ROCK LARGER THAN 1 1/2" DIAMETER, AND SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AT A MOISTURE CONTENT WITHIN 1 PERCENT BELOW TO 3 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT FOR FILLS WITH A PLASTICITY INDEX (PI) LESS THAN 25 AND 0 PERCENT BELOW TO 4 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT FOR FILLS WITH A PI OF 25 OR GREATER.
      2. COMPACTION AND MOISTURE CONTENT OF UTILITY TRENCH BACKFILL SHALL BE INSPECTED AND APPROVED BY A QUALIFIED ENGINEERING TECHNICIAN, SUPERVISED BY A GEOTECHNICAL ENGINEER.
   c. GRANULAR FILL MATERIAL SHALL NOT BE USED FOR UTILITY TRENCH BACKFILL.

3. VAPOR RETARDER SHALL MEET THE FOLLOWING PROPERTIES:
   a. 10 MIL MINIMUM THICKNESS.
   b. MEETS ASTM E1745, CLASS A.
   c. WATER PERMEANCE PER ASTM E96 SHALL BE 0.03 OR LESS.

4. REFER TO "POST-INSTALLED ANCHORS & DOWELS" STRUCTURAL NOTES FOR ADHESIVE DOWEL INFO.

5. CONCRETE SHALL BE 4000 PSI MIX DESIGN W/ 1" AGGREGATE AND SLUMP OF 3 - 5 IN.

4 TYPICAL TRENCH AT UNDER SLAB UTILITIES SECTION
NO SCALE

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TYPICAL CONCRETE SECTIONS & DETAILS

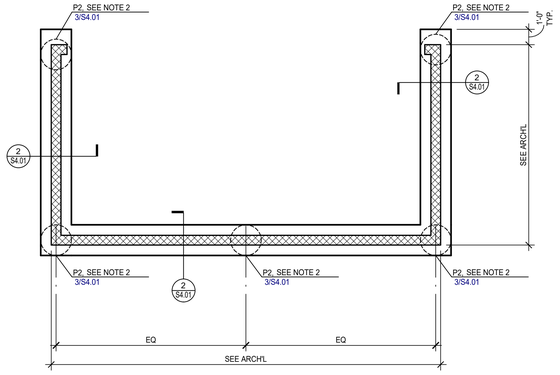
DRAWING RECORD

DATE	DESCRIPTION
07/02/25	95% CD - FINAL
09/26/25	100% REVIEW
11/16/25	100% CD - ISSUE FOR BID

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340 JQENG.COM
PROJECT NO: 4220258 TBPE FIRM F-7986
STATE OF TEXAS CHRISTOPHER A. BAKER 112676 LICENSED PROFESSIONAL ENGINEER

S3.03

PROJECT NO.: 2022200



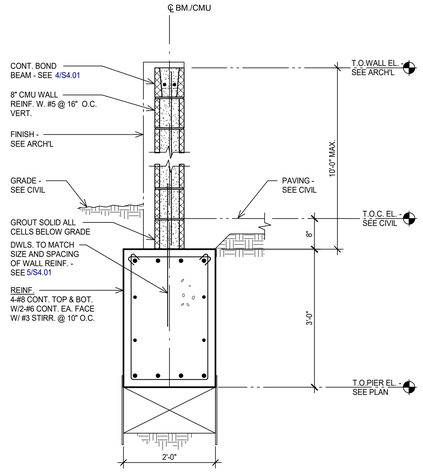
1 DUMPSTER ENCLOSURE FOUNDATION PLAN
NO SCALE

PLAN NOTES:

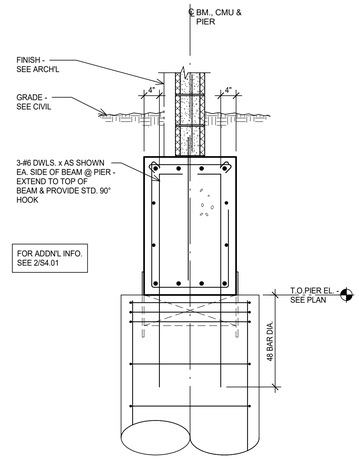
1. COORDINATE TOP OF PIER ELEVATIONS WITH FINAL GRADING PLAN - SEE DETAIL 2/S4.01
2. CENTERLINES OF PIERS NOT SPECIFICALLY LOCATED ON PLAN BY NOTE OR DIMENSION SHALL BE LOCATED AS FOLLOWS:
   A. SUPPORTING FREESTANDING COLUMNS: CENTERLINES OF COLUMN.
   B. SUPPORTING GRADEBEAMS AND WALLS: CENTERLINE OF GRADEBEAM OR WALL IN ONE DIRECTION, GRID OR AS NOTED IN OTHER DIRECTION. AT CORNER CONDITIONS: CENTERLINES OF GRADEBEAMS OR WALLS.
   C. COLUMNS EMBEDED IN GRADEBEAMS OR WALLS (PILASTERS): CENTERLINES OF THE COLUMN.
3. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO DRILLING PIERS.

SHEET INDEX:

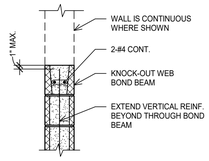
STRUCTURAL NOTES	-S1.01, S1.02
TYPICAL DETAILS	-S3.01, S3.03
PIER SCHEDULE	-S3.01



2 TYPICAL CMU SCREEN WALL DETAIL
NO SCALE



3 TOP OF PIER DETAIL AT CMU SCREEN WALL DETAIL
NO SCALE



4 TYPICAL CMU BOND BEAM DETAIL
NO SCALE

CAST-IN-PLACE (STRAIGHT BAR)

NOTES:

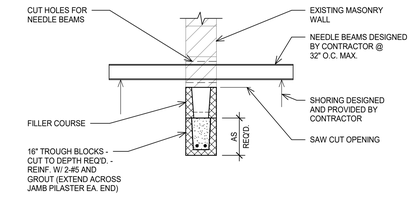
1. AT WALLS WITH DOUBLE REINFORCING, PROVIDE SINGLE DOWEL AT SIZE AND SPACING OF SCHEDULED WALL REINFORCING. CENTER DOWEL ON WALL, U.N.O.
2. MASONRY DOWELS SHALL BE TIED IN PRIOR TO CONCRETE PLACEMENT. MASONRY DOWELS SHALL NOT BE "STABBED" IN.

DOWEL SIZE	DIMENSIONS		
	"A"	"B"	"C"
#4	14"	14"	4 1/2"
#5	18"	22"	6"
#6	20"	42"	7"
#7	30"	60"	8"

5 TYPICAL MASONRY WALL DOWEL DETAIL
NO SCALE

ELEVATION

6 NEW OPENING IN EXISTING CMU WALL (DOUBLE DOOR WIDTH)
NO SCALE



7 NEW MASONRY OPENING LINTEL SECTION
NO SCALE

MASONRY LOOSE LINTEL SCHEDULE	
OPENING	LINTEL SIZE
UP TO 5'-0"	L4x4x1/4
5'-0" TO 7'-0"	L6x4x5/16 LLV
7'-0" TO 8'-0"	L6x4x3/8 LLV

NOTES:

1. LINTEL ANGLES SHALL BE HOT DIP GALVANIZED.
2. PROVIDE 3/8" GAP IN MORTAR AT ENDS OF ANGLE. FORM GAP WITH BACKER ROD.
3. PROVIDE 4" BEARING AT EACH END OF LINTEL ANGLE.

8 MASONRY LOOSE LINTEL SCHEDULE
NO SCALE

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TYPICAL MASONRY DETAILS

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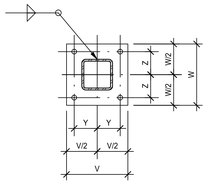
STATE OF TEXAS
CHRISTOPHER A. BAKER
111676
LICENSED PROFESSIONAL ENGINEER

S4.01

PROJECT NO.: 2022200

BASE PLATE & ANCHOR BOLT SCHEDULE									
MARK	BASE PLATE DIMENSIONS					DETAIL	ANCHOR BOLTS		
	V	W	Y	Z	T		NO./TYPE	DIA.	EMBED LENGTH
BP-1	14"	12"	5"	4"	1"	3/S5.01	4-AB2	1"	24"
BP-2	14"	14"	5"	5"	1"	2/S5.01	4-AB2	1"	24"
BP-3	14"	14"	5"	8"	1"	4/S5.01	4-AB2	1"	24"

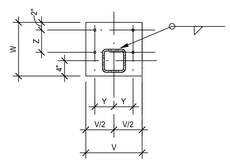
1 BASE PLATE & ANCHOR BOLT SCHEDULE
NO SCALE



NOTES:

1. WELD TO BE 1/16" SMALLER THAN THICKNESS OF TUBE.
2. FOR BASE PLATE ELEVATION SEE DETAIL 5/S5.01

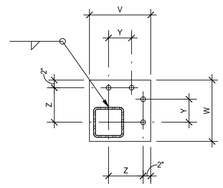
2 TYPICAL BASE PLATE DETAIL
NO SCALE



NOTES:

1. WELD TO BE 1/16" SMALLER THAN THICKNESS OF TUBE.
2. FOR BASE PLATE ELEVATION SEE DETAIL 5/S5.01

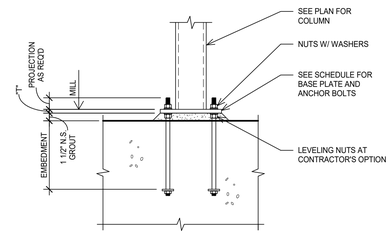
3 TYPICAL BASE PLATE DETAIL - EDGE COLUMN
SCALE: 3/4" = 1'-0"



NOTES:

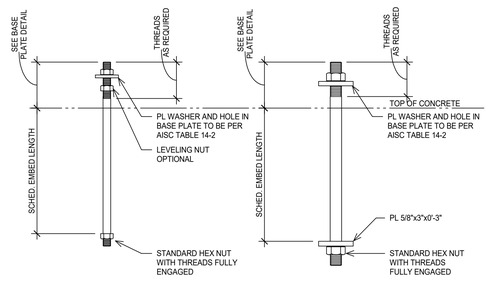
1. WELD TO BE 1/16" SMALLER THAN THICKNESS OF TUBE.
2. FOR BASE PLATE ELEVATION SEE DETAIL 5/S5.01 .

4 TYPICAL BASE PLATE DETAIL - CORNER COLUMN
NO SCALE



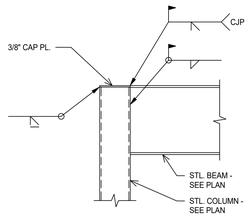
ELEVATION

5 TYPICAL COLUMN BASE PLATE DETAIL
NO SCALE



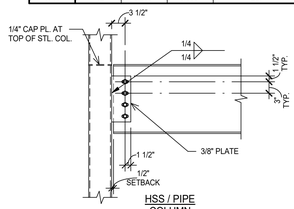
AB-1 AB-2

6 TYPICAL ANCHOR BOLT TYPES
NO SCALE



7 HSS COLUMN TO WIDE FLANGE BEAM MOMENT CONNECTION DETAIL
SCALE: 3/4" = 1'-0"

CONNECTION LOAD CAPACITY (NOTE 4)				
NOM. BM. SIZE	# OF BOLTS PER VERT. COL.	MIN. HSS/PIPE SUPPORT THICKNESS	MIN. WF SUPPORT THICKNESS	MAX. REACTION (KIPS)
				3/4"Ø BOLTS
W8	2	0.233"	0.170"	19
W10	2	0.233"	0.190"	21
W12	3	0.233"	0.200"	41
W14	4	0.233"	0.230"	61
W16	4	0.233"	0.250"	61
W18	5	0.233"	0.300"	80
W21	6	0.233"	0.350"	99
W24	7	0.233"	0.395"	117
W27	8	0.233"	0.395"	135
W30	9	0.233"	0.395"	153
W33	9	0.233"	0.395"	153
W36	10	0.233"	0.395"	171
W40	11	0.233"	0.395"	189
W44	12	0.233"	0.395"	207



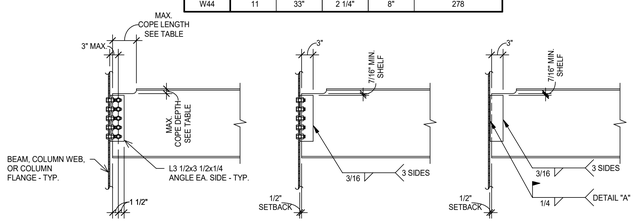
HSS / PIPE COLUMN

NOTES:

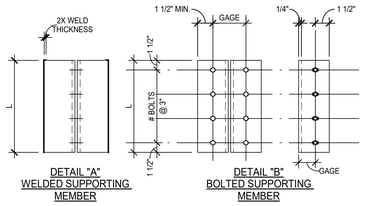
1. ALL BEAM REACTIONS ARE IN KIPS, AT STRENGTH LEVEL LOADS (FACTORED).
2. TABULATED CONNECTION CAPACITIES ARE BASED ON THE GRADES IN THE STRUCTURAL NOTES AND 70 KSI FILLER METAL.
3. BEAMS SHALL HAVE STD. HOLES AND PLATES SHALL HAVE HORIZONTAL SSL HOLES. REFERENCE AISC SPEC. J3.3 FOR HOLE SIZES.
4. THESE CAPACITIES ARE APPLICABLE FOR BEAMS WHICH ONLY HAVE VERTICAL (R=) REACTIONS AND MEET THE CONDITIONS PROVIDED IN THE DETAIL. DELEGATED DESIGNER SHALL PROVIDE CONNECTION CALCULATIONS FOR CONNECTION CONDITIONS THAT EXCEED THE LIMITATIONS OF THIS DETAIL. REFER TO "STRUCTURAL STEEL CONNECTIONS" IN THE STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

8 TYPICAL BEAM TO HSS / PIPE / WF COLUMN SHEAR TAB CONNECTION DETAIL
NO SCALE

CONNECTION LOAD CAPACITY - TOP COPE ONLY (NOTE 4)					
NOM. BM. SIZE	# OF BOLTS	ANGLE LENGTH (L)	MAX. COPE DEPTH	MAX. COPE LENGTH	MAX. REACTION (KIPS)
					3/4"Ø BOLTS
W8	2	6"	1 1/4"	6"	13
W10	2	6"	1 1/4"	6"	23
W12	2	6"	1 1/4"	6"	29
W14	3	9"	1 1/4"	6"	47
W16	3	9"	1 1/4"	6"	51
W18	4	12"	1 1/4"	6"	80
W21	5	15"	1 1/4"	7"	116
W24	5	15"	1 1/2"	8"	130
W27	6	18"	1 3/4"	8"	156
W30	7	21"	1 3/4"	8"	181
W33	8	24"	1 3/4"	8"	205
W36	9	27"	1 3/4"	8"	229
W40	10	30"	2 1/4"	8"	254
W44	11	33"	2 1/4"	8"	278



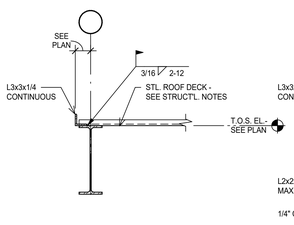
BOLTED / BOLTED CONNECTION | BOLTED / WELDED CONNECTION | WELDED / WELDED CONNECTION



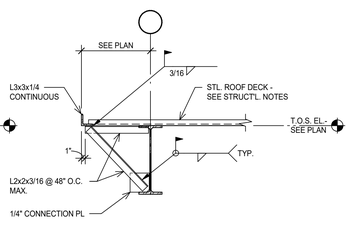
NOTES:

1. ALL BEAM REACTIONS ARE IN KIPS, AT STRENGTH LEVEL LOADS (FACTORED).
2. TABULATED CONNECTION CAPACITIES ARE BASED ON RIGHT ANGLE DOUBLE ANGLE CONNECTIONS, THE GRADES IN THE STRUCTURAL NOTES AND 70 KSI FILLER METAL.
3. HOLES IN ANGLES PARALLEL TO THE SUPPORTED BEAM SHALL HAVE HORIZONTAL SSL HOLES. HOLES IN BEAM, SUPPORTING MEMBER, AND ANGLES PERPENDICULAR TO SUPPORTED BEAMS SHALL HAVE STD. HOLES. REFERENCE AISC SPEC. J3.3 FOR HOLE SIZES.
4. THESE CAPACITIES ARE APPLICABLE FOR BEAMS WHICH ONLY HAVE VERTICAL (R=) REACTIONS AND MEET THE CONDITIONS PROVIDED IN THE DETAIL. DELEGATED DESIGNER SHALL PROVIDE CONNECTION CALCULATIONS FOR CONNECTION CONDITIONS THAT EXCEED THE LIMITATIONS OF THIS DETAIL. REFER TO "STRUCTURAL STEEL CONNECTIONS" IN THE STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

9 TYPICAL DOUBLE ANGLE SHEAR CONNECTION DETAIL
NO SCALE



SECTION "A"

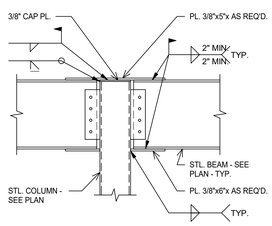


SECTION "B"

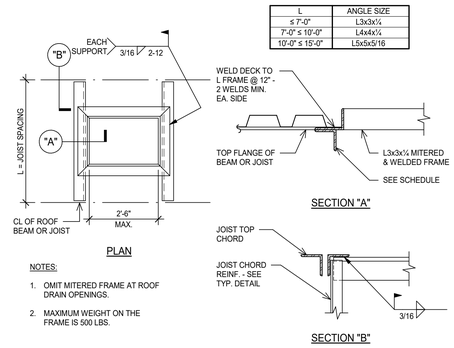
NOTE:

1. USE SECTION "B" WHEN MIN. OVERLAP OF ANGLE ON BEAM OF 1" CANNOT BE MAINTAINED.

10 TYPICAL EXTERIOR BEAM PARALLEL TO JOISTS DETAIL
NO SCALE



11 HSS COLUMN TO WIDE FLANGE BEAM MOMENT CONNECTION DETAIL
NO SCALE



L	ANGLE SIZE
≤ 7'-0"	L3x3x¼
7'-0" ≤ 10'-0"	L4x4x¼
10'-0" ≤ 15'-0"	L5x5x5/16

PLAN

SECTION "A"

SECTION "B"

NOTES:

1. OMIT MITERED FRAME AT ROOF DRAIN OPENINGS.
2. MAXIMUM WEIGHT ON THE FRAME IS 500 LBS.

12 TYPICAL ROOF OPENING DETAIL
NO SCALE

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
972.392.7340
DALLAS, TEXAS 75207
JQENG.COM
PROJECT NO: 42202258
TBPE FIRM F-7986
CHRISTOPHER A. BAKER 112676 LICENSED PROFESSIONAL ENGINEER

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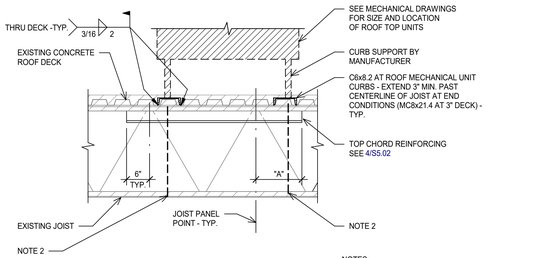
7720 Gaylglen Drive, Dallas, TX

TYPICAL STEEL SECTIONS & DETAILS

DRAWING RECORD	
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07/02/25	95% CD - FINAL
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11/16/25	100% CD - ISSUE FOR BID

S5.01

PROJECT NO.: 2022200

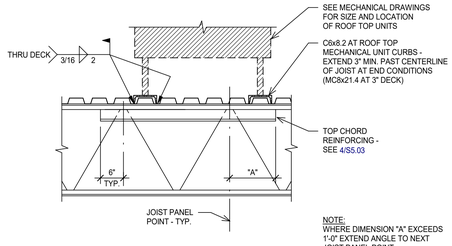


NOTES:

1. WHERE DIMENSION "A" EXCEEDS 1'-0" EXTEND ANGLE TO NEXT JOIST PANEL POINT
2. CENTER BRACING TO ADJACENT JOISTS PER 2/S5.03 UNDER RTU SUPPORTS

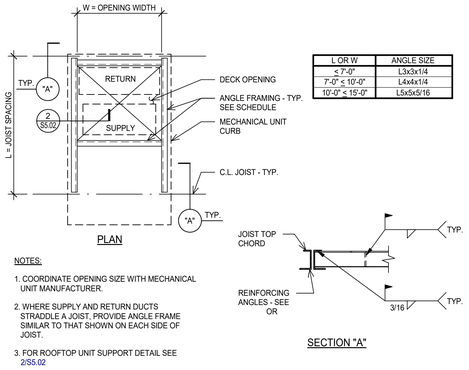
MECHANICAL UNIT SUPPORTED ON JOISTS

1 MECHANICAL UNIT SUPPORTED ON JOISTS AT EXISTING ROOF
NO SCALE



MECHANICAL UNIT SUPPORTED ON JOISTS

2 TYPICAL MECHANICAL UNIT SUPPORTED ON JOISTS - CURB PERPENDICULAR TO JOISTS
SCALE: 3/4" = 1'-0"

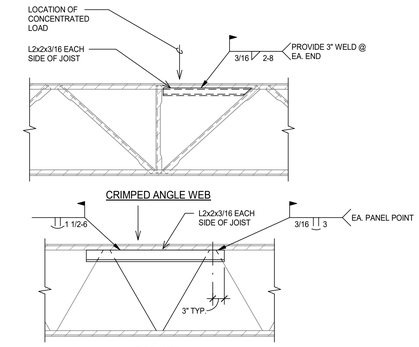


L OR W	ANGLE SIZE
≤ 7'-0"	L3x3x1/4
7'-0" ≤ 10'-0"	L4x4x1/4
10'-0" < 15'-0"	L5x5x5/16

NOTES:

1. COORDINATE OPENING SIZE WITH MECHANICAL UNIT MANUFACTURER.
2. WHERE SUPPLY AND RETURN DUCTS STRADDLE A JOIST, PROVIDE ANGLE FRAME SIMILAR TO THAT SHOWN ON EACH SIDE OF JOIST.
3. FOR ROOFTOP UNIT SUPPORT DETAIL SEE 2/S5.02

3 TYPICAL SCHEMATIC ROOFTOP MOUNTED MECHANICAL UNIT OPENING FRAMING DETAIL
SCALE: 3/4" = 1'-0"



NOTES:

1. TOP CHORD SHALL BE REINFORCED WHEREVER A CONCENTRATED LOAD IN EXCESS OF 100 POUNDS DOES NOT OCCUR WITHIN 4" OF A JOIST TOP CHORD PANEL POINT. MAXIMUM LOAD TO BE APPLIED WITHOUT CONSULTATION WITH ENGINEER IS 250 POUNDS. DO NOT PLACE CONCENTRATED LOADS CLOSER THAN 4'-0" O.C.
2. ALL HANGERS OR ATTACHMENTS TO JOISTS SHALL BE PLACED CONCENTRIC WITH THE TOP CHORD, AND SHALL NOT ATTACH TO ONLY ONE ANGLE OF CHORD.

4 TYPICAL TOP CHORD REINFORCEMENT FOR KCS OR K-SERIES JOISTS DETAIL
NO SCALE

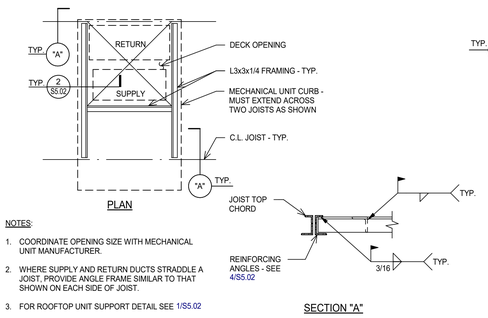
5 SECTION AT EXISTING ROOF
SCALE: 3/4" = 1'-0"

6 SECTION AT EXISTING ROOF
NO SCALE

NOTE:

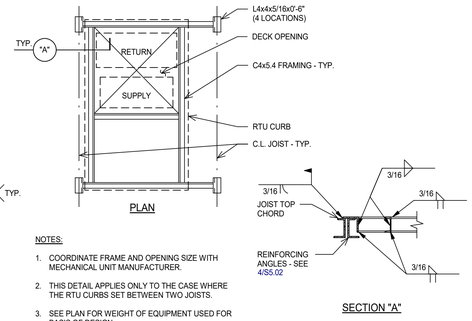
1. COLD GALVANIZE ALL WELDS (2 COATS)

7 VENEER SUPPORT AT VESTIBULE WINDOW DETAIL
SCALE: 3/4" = 1'-0"



NOTES:

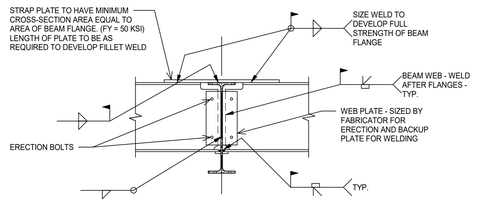
1. COORDINATE OPENING SIZE WITH MECHANICAL UNIT MANUFACTURER.
2. WHERE SUPPLY AND RETURN DUCTS STRADDLE A JOIST, PROVIDE ANGLE FRAME SIMILAR TO THAT SHOWN ON EACH SIDE OF JOIST.
3. FOR ROOFTOP UNIT SUPPORT DETAIL SEE 1/SS.02
4. THIS DETAIL APPLIES ONLY TO THE CASE WHERE THE RTU CURBS EXTEND ACROSS TWO JOISTS.
5. SEE PLAN FOR WEIGHT OF EQUIPMENT USED FOR BASIS OF DESIGN.



NOTES:

1. COORDINATE FRAME AND OPENING SIZE WITH MECHANICAL UNIT MANUFACTURER.
2. THIS DETAIL APPLIES ONLY TO THE CASE WHERE THE RTU CURBS SET BETWEEN TWO JOISTS.
3. SEE PLAN FOR WEIGHT OF EQUIPMENT USED FOR BASIS OF DESIGN.

8 TYPICAL SCHEMATIC ROOFTOP MOUNTED ON MECHANICAL UNIT OPENING FRAMING DETAILS
NO SCALE



9 TYPICAL MOMENT CONNECTION DETAIL
NO SCALE

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1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
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TYPICAL STEEL SECTIONS & DETAILS

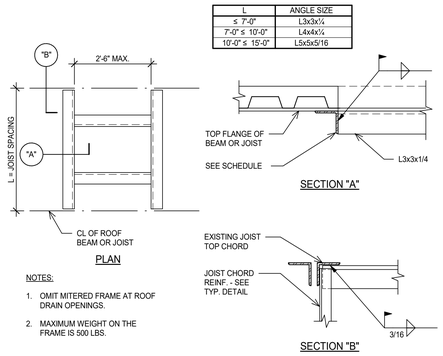
DRAWING RECORD

DATE	DESCRIPTION
07/02/25	95% CD - FINAL
09/26/25	100% REVIEW
11/16/25	100% CD - ISSUE FOR BID

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JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
972.392.7340
PROJECT NO: 4220258
DALLAS, TEXAS 75207
JQENG.COM
TBPE FIRM F-7986
STATE OF TEXAS
CHRISTOPHER A. BAKER
112676
LICENSED
PROFESSIONAL ENGINEER

S5.02

PROJECT NO.: 2022200

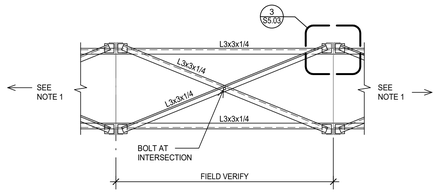


L	ANGLE SIZE
≤ 7'-0"	L3x3x¼
7'-0" ≤ 10'-0"	L4x4x¼
10'-0" ≤ 15'-0"	L5x5x5/16

NOTES:

1. OMIT MITERED FRAME AT ROOF DRAIN OPENINGS.
2. MAXIMUM WEIGHT ON THE FRAME IS 500 LBS.

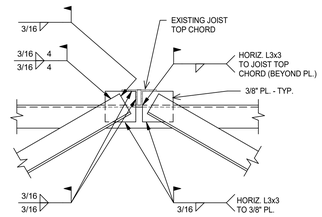
1 TYPICAL ROOF OPENING DETAIL
NO SCALE



NOTE:

1. EXTEND BRACING TO ENGAGE MINIMUM OF FOUR (4) JOISTS.

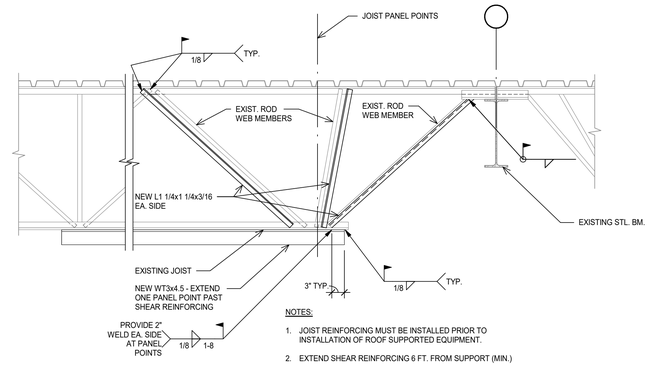
2 TYPICAL ADDITIONAL BRACING FOR RTU
NO SCALE



NOTE:

1. EXTEND PLATE DIMENSIONS AS REQUIRED TO AVOID BRACE CONFLICT AT HORIZONTAL ANGLE WHERE BRACE ANGLE TOE FACES OTHER DIRECTION.

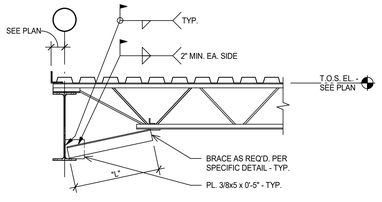
3 CONNCETION DETAIL
NO SCALE



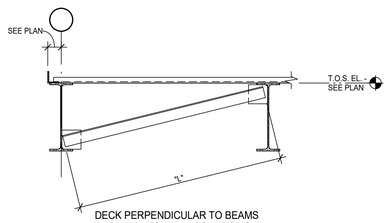
NOTES:

1. JOIST REINFORCING MUST BE INSTALLED PRIOR TO INSTALLATION OF ROOF SUPPORTED EQUIPMENT.
2. EXTEND SHEAR REINFORCING 6 FT. FROM SUPPORT (MIN.)

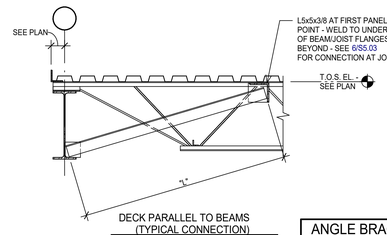
4 K-SERIES JOIST SHEAR REINFORCING DETAIL
NO SCALE



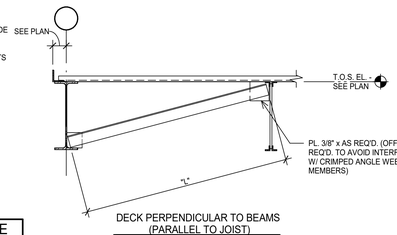
DECK PARALLEL TO BEAMS
(CONNECTION AT SHALLOW JOIST)



DECK PERPENDICULAR TO BEAMS
(PARALLEL TO BEAM CONNECTION)



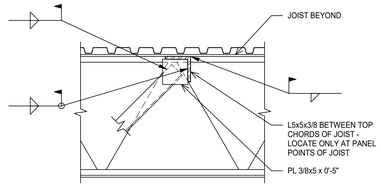
DECK PARALLEL TO BEAMS
(TYPICAL CONNECTION)



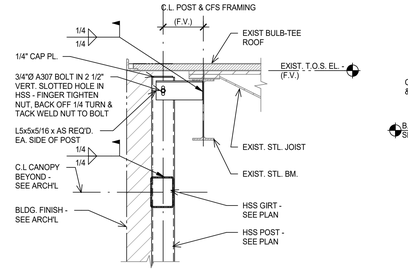
DECK PERPENDICULAR TO BEAMS
(PARALLEL TO JOIST)

ANGLE BRACE	
"L" (FT.)	BRACE SIZE
0-4'	L2 1/2x2 1/2x1/4
4'-7'	L3x3x1/4
7'-10'	L4x4x1/4
10'-14'	L5x5x5/16

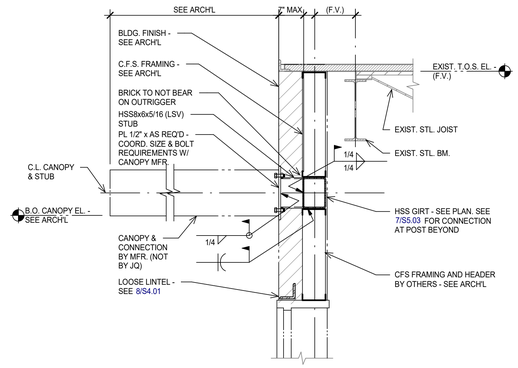
5 TYPICAL STEEL BEAM BRACING DETAILS
NO SCALE



6 TYPICAL BRACE AT JOIST PANEL POINT DETAIL
NO SCALE

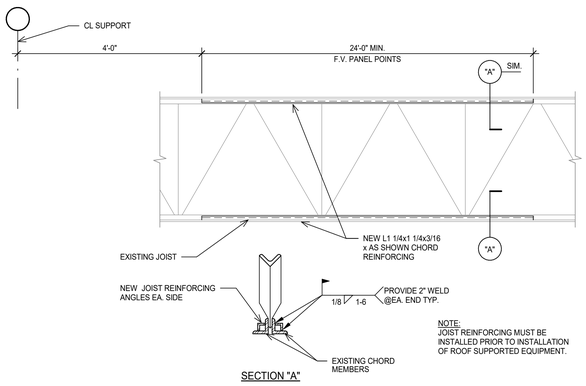


7 CANOPY SUPPORT SECTION
SCALE: 3/4" = 1'-0"



NOTE:
PRIOR TO ERECTION/FABRICATION G.C. TO COORDINATE CANOPY LOADS WITH EOR TO VERIFY INTEGRITY OF STUB AND HSS GIRT DESIGN

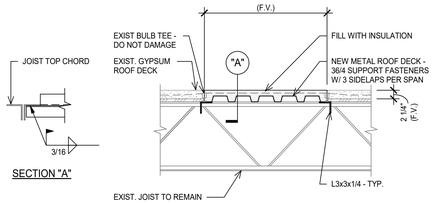
8 CANOPY SUPPORT SECTION
SCALE: 3/4" = 1'-0"



NOTE:
JOIST REINFORCING MUST BE INSTALLED PRIOR TO INSTALLATION OF ROOF SUPPORTED EQUIPMENT.

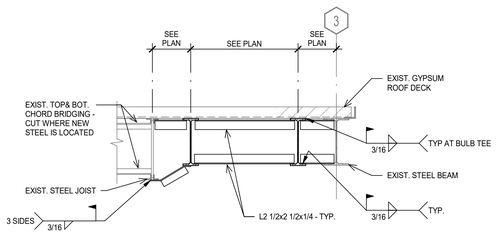
SECTION "A"

9 K-SERIES JOIST CHORD REINFORCING DETAIL
NO SCALE

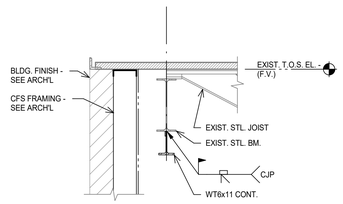


SECTION "A"

10 BULB TEE ROOF OPENING INFILL
NO SCALE



11 NEW STEEL BEAM AT EXISTING KITCHEN
NO SCALE



12 EXISTING STEEL BEAM REINFORCEMENT DETAIL
NO SCALE

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JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
972.392.7340
DALLAS, TEXAS 75207
JQENG.COM
PROJECT NO: 42202258
TBPE FIRM # F-7986
STATE OF TEXAS
CHRISTOPHER A. BAKER
112676
LICENSED
PROFESSIONAL ENGINEER

ALLIANCE ARCHITECTS
30th ANNIVERSARY
1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
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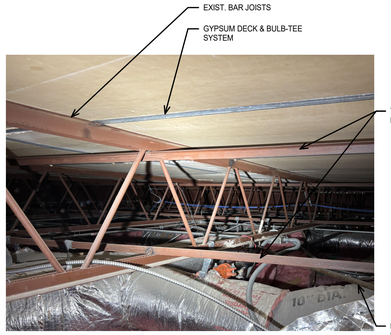
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TYPICAL STEEL SECTIONS & DETAILS

DRAWING RECORD	
DATE	DESCRIPTION
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09/26/25	100% REVIEW
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S5.03

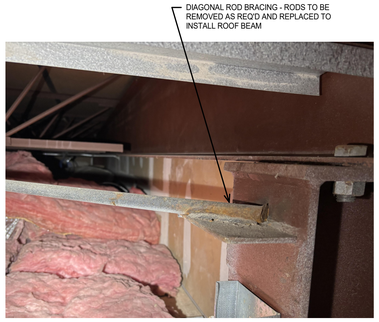
PROJECT NO.: 2022200



1 CLASSROOM ROOF FRAMING
NO SCALE



2 CLASSROOM ROOF FRAMING
NO SCALE



3 CLASSROOM ROOF FRAMING
NO SCALE

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PHOTOGRAPHS - EXISTING CLASSROOM

DRAWING RECORD

DATE	DESCRIPTION

S6.01

PROJECT NO.: 2022200

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100 GLASS STREET, SUITE 201
972.392.7340
DALLAS, TEXAS 75207
JQENG.COM
PROJECT NO: 4220258
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STATE OF TEXAS
CHRISTOPHER A. BAKER
112676
LICENSED PROFESSIONAL ENGINEER

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MECHANICAL ABBREVIATIONS, SYMBOLS AND NOTES (THIS IS A STANDARD LEGEND, NOT ALL SYMBOLS MAY BE APPLICABLE TO PROJECT)

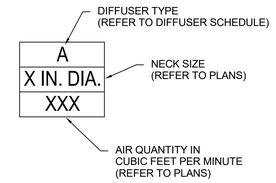
ABBREVIATIONS

A	COMPRESSED AIR	LG	LENGTH
ABV	ABOVE	LT.	LIGHT
A/C	AIR CONDITIONING	MAN	MANUAL
AD	ACCESS DOOR OR PANEL	MAX	MAXIMUM
A. DR	AREA DRAIN	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MIN	MINIMUM, MINUTE
AFG	ABOVE FINISHED GRADE	MVD	MANUAL VOLUME DAMPER
AHU	AIR HANDLING UNIT	NIC	NOT IN CONTRACT
AI	ANALOG INPUT	NC	NORMALLY CLOSED, NOISE CRITERIA
AMP	AMPERE	NO	NORMALLY OPEN, NUMBER
BAS	BUILDING AUTOMATION SYSTEM	NTS	NOT TO SCALE
BCV	BALL CHECK VALVE	OA	OUTSIDE AIR
BFF	BELOW FINISHED FLOOR	OBD	OPPOSED BLADE DAMPER
B/C	BELOW CEILING	OC	ON CENTER
B/G	BELOW GRADE	OD	OUTSIDE DIAMETER
BLDG	BUILDING	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
BOD	BOTTOM OF DUCT	O.F.O.I.	OWNER FURNISHED, OWNER INSTALLED
BOP	BOTTOM OF PIPE	PNL	PANEL
BOS	BOTTOM OF STRUCTURE	P/A	PRE-ACTION
BR	BRANCH	PC	PLUG COCK
BTUH	BRITISH THERMAL UNITS PER HOUR	PE	PNEUMATIC ELECTRIC SWITCH
BWV	BACK WATER VALVE	PH	PHASE
CD	CONDENSATE PIPING LINE	PIV	POST INDICATOR VALVE
CU	CONDENSING UNIT	PO	PLUGGED OUTLET
CFH	CUBIC FEET PER HOUR	P	PRESSURE
CFM	CUBIC FEET PER MINUTE	PRV	PRESSURE REDUCING VALVE
CFS	CUBIC FEET PER SECOND	P.S.	PRESSURE SWITCH
CI	CAST IRON	PSI	POUNDS PER SQUARE INCH
CL	CENTERLINE	PTRV	PRESSURE-TEMPERATURE RELIEF VALVE
CLG	CEILING	PRV	PRESSURE RELIEF VALVE
CO	CLEANOUT	PVC	POLYVINYL CHLORIDE
CRU	COMPUTER ROOM UNIT	PC	PULL CHAIN
CWS	COOLING WATER SUPPLY	PWR	POWER
CWR	COOLING WATER RETURN	R.	RELAY
D	DRAIN	RA	RETURN AIR
DB	DRY BULB	RD	ROOF DRAIN
DI	DIGITAL INPUT	REC.	RECESSED
DIA. ⌀	DIAMETER	RED	REDUCER
DN	DOWN	RL	REFRIGERANT PIPING LINE
DO	DIGITAL OUTPUT	RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
DR	DRAIN	BFP	BACKFLOW PREVENTER
DS	DOWN SPOUT	RTU	ROOFTOP UNIT
DX	DIRECT EXPANSION	SS	SANITARY SEWER
DWG	DRAWING	SA	SUPPLY AIR
EA	EXHAUST AIR	SAN	SANITARY
EAT	ENTERING AIR TEMPERATURE	SD	SMOKE DAMPER
EDH	ELECTRIC DUCT HEATER	S.E.	SERVICE ENTRANCE
EF	EXHAUST FAN	SF	SUPPLY FAN, SQUARE FEET
EFF	EFFICIENCY	SENS	SENSIBLE
ELEC	ELECTRICAL	SH	SUPPLY HOOD
ELEV	ELEVATION	SPEC.	SPECIFICATION
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	SPRK	SPRINKLER
ERV	ENERGY RECOVERY VENTILATOR	SP	STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER	S.S.	START STOP STATION
EXIST, EX	EXISTING	ST	STACK
F	FAHRENHEIT	ST. STL	STAINLESS STEEL
FCU	FAN COIL UNIT	S.V.	SOLENOID VALVE
FD	FIRE DAMPER or FLOOR DRAIN	TEMP	TEMPERATURE
FH	FIRE HYDRANT	TSTAT	THERMOSTAT
FLEX	FLEXIBLE	TSP	TOTAL STATIC PRESSURE
FP	FIRE PROOFING	TYP	TYPICAL
FPB	FAN POWERED BOX	UH	UNIT HEATER
FPI	FINS PER INCH	U.F.	UNDERFLOOR
FPF	FINS PER FOOT	U.G.	UNDERGROUND
FPM	FEET PER MINUTE	UN	UNION
FPS	FEET PER SECOND	V	VENT, VOLT
FS	FLOW SWITCH	VAV	VARIABLE AIR VOLUME TERMINAL UNIT
FS	FLOOR SINK	VEL	VELOCITY
FT	FOOT, FEET	VOL.	VOLUME
G	GAS, LOW PRESSURE	V.P.	VAPORPROOF
GAL	GALLON	VTR	VENT THRU ROOF
GALV	GALVANIZED	W	WATT OR WIRE
GC	GENERAL CONTRACTOR	W/	WITH
GCO	GRADE CLEAN OUT	WB	WET BULB
GEN.	GENERATOR	WCO	WALL CLEAN OUT
GPM	GALLONS PER MINUTE	WG	WATER GAUGE
GPH	GALLONS PER HOUR	WSHP	WATER SOURCE HEAT PUMP
GV	GLOBE VALVE	WP	WEATHERPROOF
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		

LEGEND

PCHS	PRIMARY CHILLED WATER SUPPLY
PCHR	PRIMARY CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
PHWS	PRIMARY HEATING WATER SUPPLY
PHWR	PRIMARY HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CWS	CONDENSER WATER
CWR	CONDENSER WATER
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
AD	AUXILIARY DRAIN LINE
CD	CONDENSATE DRAIN LINE
E	EXPANSION LINE
AR	ATMOSPHERIC RELIEF LINE
G	NATURAL GAS LINE
	FLOW IN DIRECTION OF ARROW
	SLOPE DOWN IN DIRECTION OF ARROW
	STRAINER WITH BLOWDOWN VALVE
	GATE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	GLOBE VALVE
	PLUG VALVE
	CHECK VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	AUTOMATIC AIR VENT
	PRESSURE INDEPENDENT BALANCE VALVE
	BALANCE VALVE
	DIFFERENTIAL PRESSURE REDUCING REGULATOR
	MULTI-PURPOSE VALVE (SHUTOFF, BALANCING, CHECK)
	FLOW MEASURING & BALANCING VALVE
	RISE AND DROP IN PIPING
	BLIND FLANGE
	TURBINE FLOW METER
M	ELECTROMAGNETIC FLOW METER
	ULTRASONIC FLOW METER
PI P	PRESSURE GAUGE WITH GAUGE COCK
TI T	TEMPERATURE GAUGE WITH GAUGE COCK
PS	PRESSURE SENSOR
TE	TEMPERATURE ELEMENT
FE	FLOW ELEMENT
	THERMOMETER
	THERMOWELL
	PETE'S PLUG

X	ANCHOR POINT
	GUIDE OR RACK POINT
	BELLOWS TYPE EXPANSION JOINT
	FLEX CONNECTOR
C.R.	CONCENTRIC REDUCER
E.R.	ECCENTRIC REDUCER
	SYSTEM FILL CONNECTION
	GAUGE COCK
	UNION
	CAP
	POINT OF DISCONNECTION
	NEW TO EXISTING CONNECTION
C	CO SENSOR
N	NITROGEN DIOXIDE
H	HUMIDITY SENSOR
T	THERMOSTAT
TS	TEMPERATURE SENSOR
S	PLENUM RATED SMOKE DETECTOR
P	PRESSURE SENSOR
R	RISE IN DUCT
D	DROP IN DUCT
	SUPPLY DUCT IN VERTICAL
	RETURN OR EXHAUST IN VERTICAL
	MANUAL DAMPER
M	MOTORIZED DAMPER
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
SD	SMOKE DAMPER
SD	DUCT MOUNTED SMOKE DAMPER
	TURNING VANES
	SUPPLY AIR FLOW ARROW
	RETURN/EXHAUST AIR FLOW ARROW
	SUPPLY DIFFUSER, SIZE AS DESIGNATED ON PLAN
	RETURN OR EXHAUST GRILLE, SIZE AND TYPE DESIGNATED ON PLAN
	SIDEWALL SUPPLY GRILLE
	SIDEWALL RETURN/EXHAUST GRILLE
	FLEXIBLE DUCTWORK, SIZE AS DESIGNATED ON PLAN



DIFFUSER CALLOUT KEY

GENERAL NOTES

GENERAL CONDITONS:

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 HVAC EQUIPMENT AND/OR DUCTWORK.
13. ALL EXPOSED SUPPLY AND OUTSIDE AIR DUCT SHALL BE INTERNALLY LINED WITH 1" DUCT LINER.

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.

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



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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
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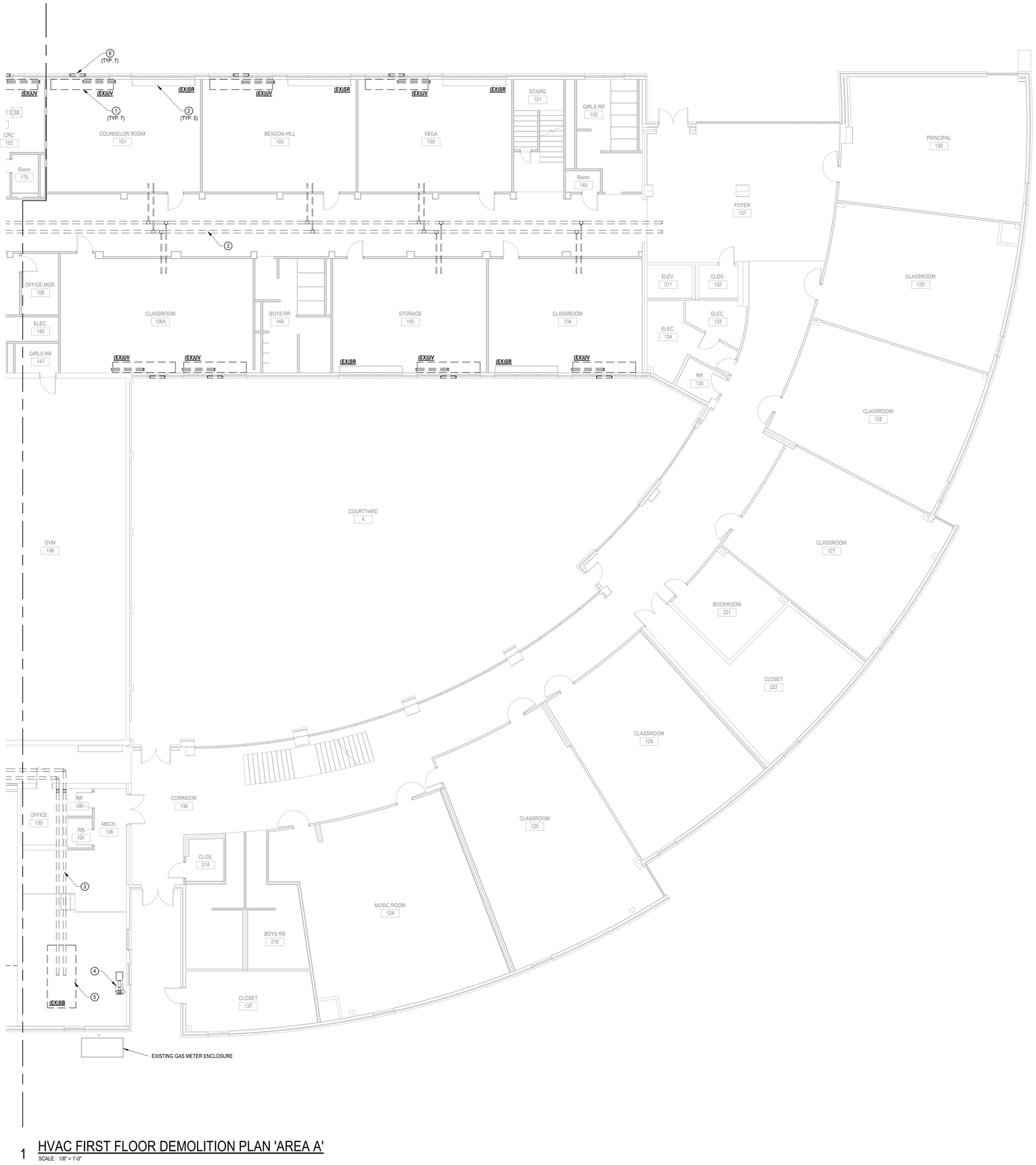
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1 HVAC FIRST FLOOR DEMOLITION PLAN 'AREA A'
SCALE: 1/8" = 1'-0"

LEGEND	
	EXISTING
- - - - -	DEMOLITION

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. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKESS OF THE NEW ROOF SYSTEM WORK SHALL INCLUDE THE REWORK OF ALL CONDUITS AND ASSOCIATED WIRING, J-BOX, GAS PIPING, CONDENSATE DRAIN LINES, REFRIGERANT SUPPLY AND RETURN LINES AND CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF EXISTING REFRIGERANT AND THE REINSTALLATION OF SAID REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO PROVIDE A FULLY CHARGED SYSTEM.
5. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKNESS OF THE NEW ROOF SYSTEM DEMOLISH AND REPLACE EXISTING ROOF CURBS FOR EXISTING TO REMAIN EQUIPMENT.
6. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM NEAREST ROOF EDGE.

NOTES BY SYMBOL:

1	DISCONNECT UNIT VENTILATORS FROM OUTDOOR AIR PLENUM TRIM. DEMOLISH EXISTING UNIT VENTILATORS. DEMOLISH ASSOCIATED STEAM PIPING AND CONTROLS. PATCH AND REPAIR FLOOR AND WALL TO ACCOMODATE NEW UNIT VENTILATORS PER ARCHITECTURAL SPECIFICATION. PRESERVE EXISTING OUTDOOR AIR PLENUM AND PREPARE FOR CONNECTION TO NEW UNIT VENTILATOR. PREPARE EXISTING CHILLED WATER COIL CONDENSATE DRAIN PIPING FOR CONNECTION TO NEW UNIT VENTILATOR.
2	STEAM RADIATORS TO BE ABANDONED IN PLACE. DEMOLISH ASSOCIATED STEAM PIPING AND CONTROLS. REFER TO ARCHITECTURAL PLANS FOR ASSOCIATED FINISH AND REPAIR WORK.
3	DEMOLISH ALL STEAM PIPING WITHIN BUILDING. STEAM PIPING MAINS LOCATED UNDER SLAB.
4	DEMOLISH EXISTING STEAM CONDENSATE PUMP. DEMOLISH ASSOCIATED PIPING, HOUSEKEEPING PAD, PIPING SPECIALTIES, AND CONTROLS
5	DEMOLISH EXISTING STEAM BOILER. DEMOLISH ASSOCIATED PIPING, HOUSEKEEPING PAD, PIPING SPECIALTIES, CONTROLS. DEMOLISH ASSOCIATED COMBUSTION AIR FLUE.
6	DEMOLISH EXISTING EXTERIOR PENETRATION PATCH COVER. DEMOLISH EXISTING EXTERIOR WALL LOUVER. PREPARE PENETRATION FOR INSTALLATION OF NEW LOUVER.

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



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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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Blair Elementary School

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HVAC FIRST FLOOR DEMOLITION PLAN 'AREA A'

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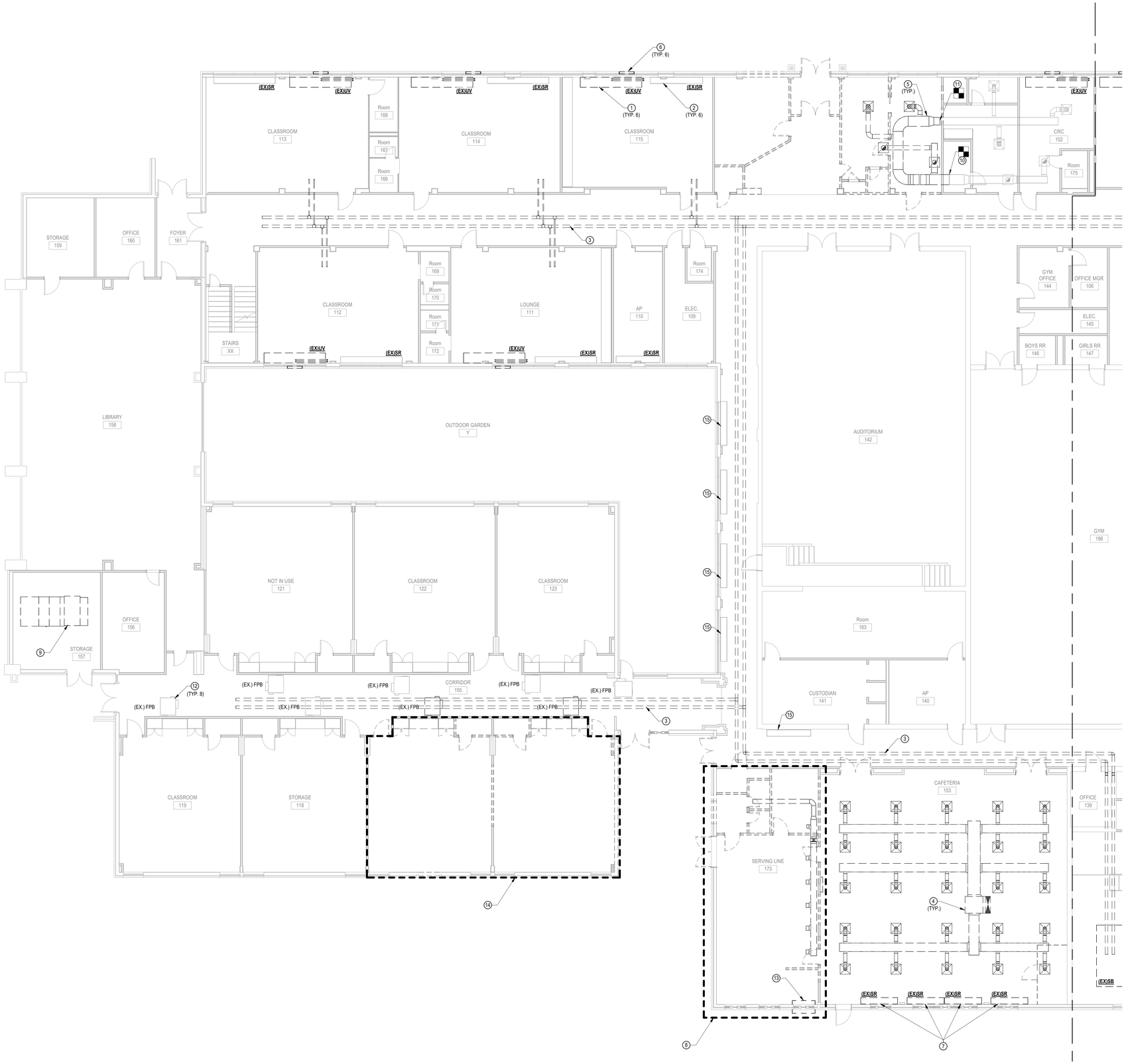
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1 HVAC FIRST FLOOR DEMOLITION PLAN 'AREA B'
SCALE: 1/8" = 1'-0"

LEGEND	
	EXISTING
	DEMOLITION

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. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKESS OF THE NEW ROOF SYSTEM WORK SHALL INCLUDE THE REWORK OF ALL CONDUITS AND ASSOCIATED WIRING, J-BOX, GAS PIPING, CONDENSATE DRAIN LINES, REFRIGERANT SUPPLY AND RETURN LINES AND CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF EXISTING REFRIGERANT AND THE REINSTALLATION OF SAID REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO PROVIDE A FULLY CHARGED SYSTEM.
5. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKNESS OF THE NEW ROOF SYSTEM DEMOLISH AND REPLACE EXISTING ROOF CURBS FOR EXISTING TO REMAIN EQUIPMENT.
6. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM NEAREST ROOF EDGE.

NOTES BY SYMBOL:

1	DISCONNECT UNIT VENTILATORS FROM OUTDOOR AIR PLENUM TRIM. DEMOLISH EXISTING UNIT VENTILATORS. DEMOLISH ASSOCIATED STEAM PIPING AND CONTROLS. PATCH AND REPAIR FLOOR AND WALL TO ACCOMODATE NEW UNIT VENTILATORS PER ARCHITECTURAL SPECIFICATION. PRESERVE EXISTING OUTDOOR AIR PLENUM AND PREPARE FOR CONNECTION TO NEW UNIT VENTILATOR. PREPARE EXISTING CHILLED WATER COIL CONDENSATE DRAIN PIPING FOR CONNECTION TO NEW UNIT VENTILATOR.
2	STEAM RADIATORS TO BE ABANDONED IN PLACE. DEMOLISH ASSOCIATED STEAM PIPING AND CONTROLS. REFER TO ARCHITECTURAL PLANS FOR ASSOCIATED FINISH AND REPAIR WORK.
3	DEMOLISH ALL STEAM PIPING WITHIN BUILDING. STEAM PIPING MAINS LOCATED UNDER SLAB.
4	DEMOLISH ALL DUCTWORK, GRILLES, AND DIFFUSERS SERVING EXISTING CAFETERIA LAYOUT.
5	DEMOLISH ALL DUCTWORK, GRILLES, AND DIFFUSERS SERVING EXISTING VESTIBULE LAYOUT.
6	DEMOLISH EXISTING EXTERIOR PENETRATION PATCH COVER. DEMOLISH EXISTING EXTERIOR WALL LOUVER. PREPARE PENETRATION FOR INSTALLATION OF NEW LOUVER.
7	EXISTING STEAM RADIATORS TO BE DEMOLISHED. DEMOLISH STEAM PIPING CONNECTIONS AND ASSOCIATED CONTROLS.
8	IN EXISTING KITCHEN AREA, DEMOLISH ALL GRILLES, DIFFUSERS, AND DUCTWORK. DEMOLISH ASSOCIATED CONTROL ELEMENTS.
9	DEMOLISH CHILLED WATER AIR HANDLING UNIT. DEMOLISH ASSOCIATED PIPING, HOUSEKEEPING PAD, PIPING SPECIALTIES, AND CONTROLS. PREPARE FOR INSTALLATION OF NEW HOUSEKEEPING PAD.
10	DISCONNECT EXISTING RETURN AIR DUCTWORK AT THIS LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING DUCTWORK PRIOR TO DEMOLITION. PREPARE EXISTING TO REMAIN DUCTWORK FOR CONNECTION TO NEW DUCT SYSTEM.
11	DISCONNECT EXISTING SUPPLY AIR DUCTWORK AT THIS LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING DUCTWORK PRIOR TO DEMOLITION. PREPARE EXISTING TO REMAIN DUCTWORK FOR CONNECTION TO NEW DUCT SYSTEM.
12	DISCONNECT EXISTING FAN POWERED BOX FROM STEAM PIPING. DEMOLISH EXISTING STEAM CONTROL VALVE.
13	DEMOLISH EXISTING WALL MOUNTED EXHAUSTED EXHAUST FAN. REFER TO ARCHITECTURAL PLANS FOR PATCH AND REPAIR.
14	IN DASH OUTLINED AREA: DEMOLISH EXISTING DUCTWORK, GRILLES, AND DIFFUSERS. DEMOLISH ASSOCIATED FAN POWERED BOX. DEMOLISH STEAM PIPING BACK TO MAIN AND CAP. DEMOLISH ALL TEMPERATURE SENSING DEVICES.
15	DEMOLISH ALL STEAM PIPING ASSOCIATED WITH STEAM RADIATOR. PREPARE FOR RECONNECTION UNDER NEW WORK.

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

JAMES T. BARRON 83873 LICENSED PROFESSIONAL ENGINEER

11/16/2025

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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HVAC FIRST FLOOR DEMOLITION PLAN 'AREA B'

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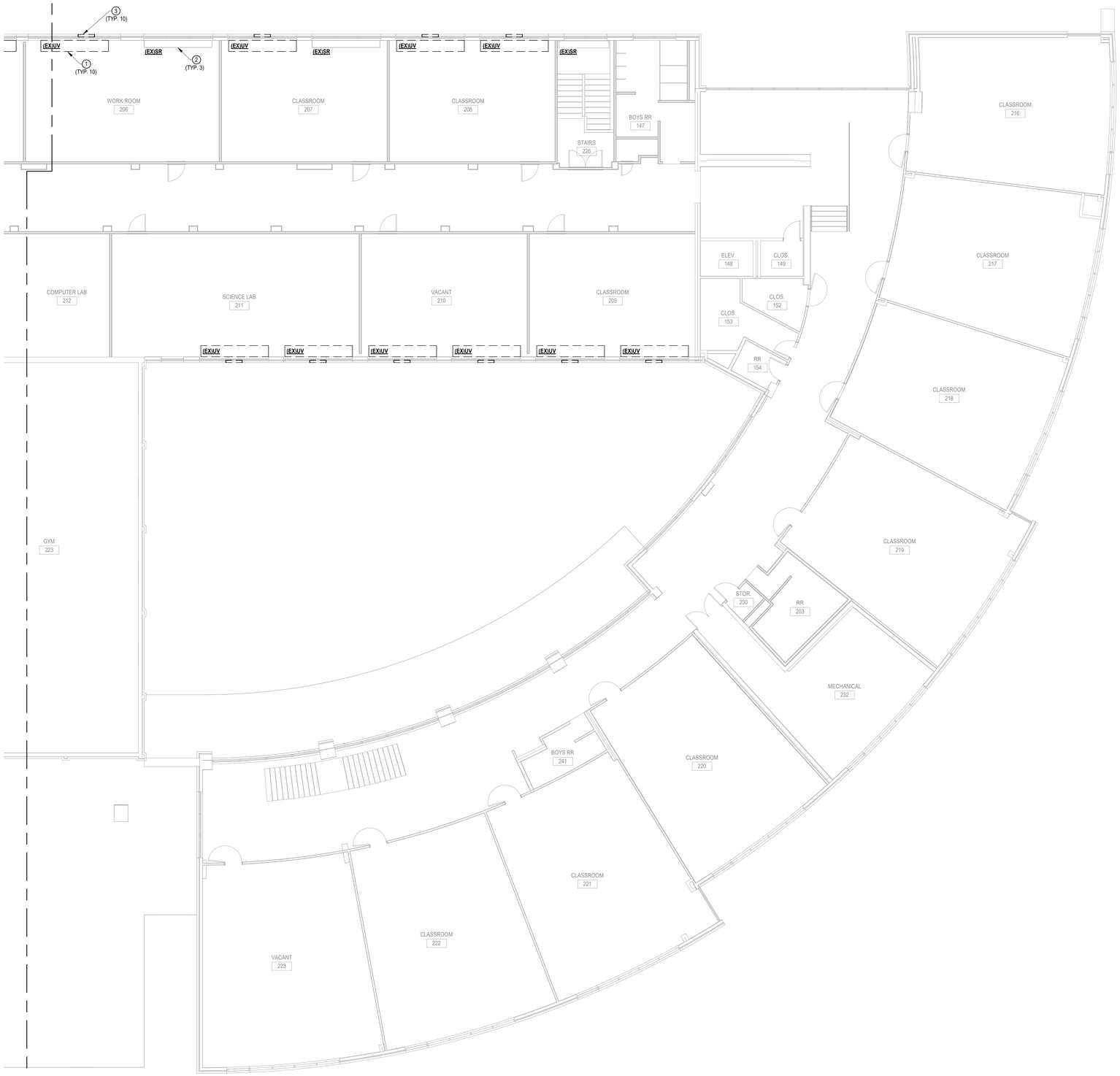
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1 HVAC SECOND FLOOR DEMOLITION PLAN 'AREA A'
SCALE: 1/8" = 1'-0"

LEGEND

———	EXISTING
- - - - -	DEMOLITION

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. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKESS OF THE NEW ROOF SYSTEM WORK SHALL INCLUDE THE REWORK OF ALL CONDUITS AND ASSOCIATED WIRING, J-BOX, GAS PIPING, CONDENSATE DRAIN LINES, REFRIGERANT SUPPLY AND RETURN LINES AND CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF EXISTING REFRIGERANT AND THE REINSTALLATION OF SAID REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO PROVIDE A FULLY CHARGED SYSTEM.
5. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKNESS OF THE NEW ROOF SYSTEM DEMOLISH AND REPLACE EXISTING ROOF CURBS FOR EXISTING TO REMAIN EQUIPMENT.
6. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM NEAREST ROOF EDGE.

NOTES BY SYMBOL:

1	DISCONNECT UNIT VENTILATORS FROM OUTDOOR AIR PLENUM TRIM. DEMOLISH EXISTING UNIT VENTILATORS. DEMOLISH ASSOCIATED STEAM PIPING AND CONTROLS. PATCH AND REPAIR FLOOR AND WALL TO ACCOMODATE NEW UNIT VENTILATORS PER ARCHITECTURAL SPECIFICATION. PRESERVE EXISTING OUTDOOR AIR PLENUM AND PREPARE FOR CONNECTION TO NEW UNIT VENTILATOR. PREPARE EXISTING CHILLED WATER COIL CONDENSATE DRAIN PIPING FOR CONNECTION TO NEW UNIT VENTILATOR.
2	STEAM RADIATORS TO BE ABANDONED IN PLACE. DEMOLISH ASSOCIATED STEAM PIPING AND CONTROLS. REFER TO ARCHITECTURAL PLANS FOR ASSOCIATED FINISH AND REPAIR WORK.
3	DEMOLISH EXISTING EXTERIOR PENETRATION PATCH COVER. DEMOLISH EXISTING EXTERIOR WALL LOUVER. PREPARE PENETRATION FOR INSTALLATION OF NEW LOUVER.

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

STATE OF TEXAS
JAMES T. BARRON
83873
LICENSED
PROFESSIONAL
ENGINEER

11/16/2025

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
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HVAC SECOND FLOOR DEMOLITION PLAN 'AREA A'

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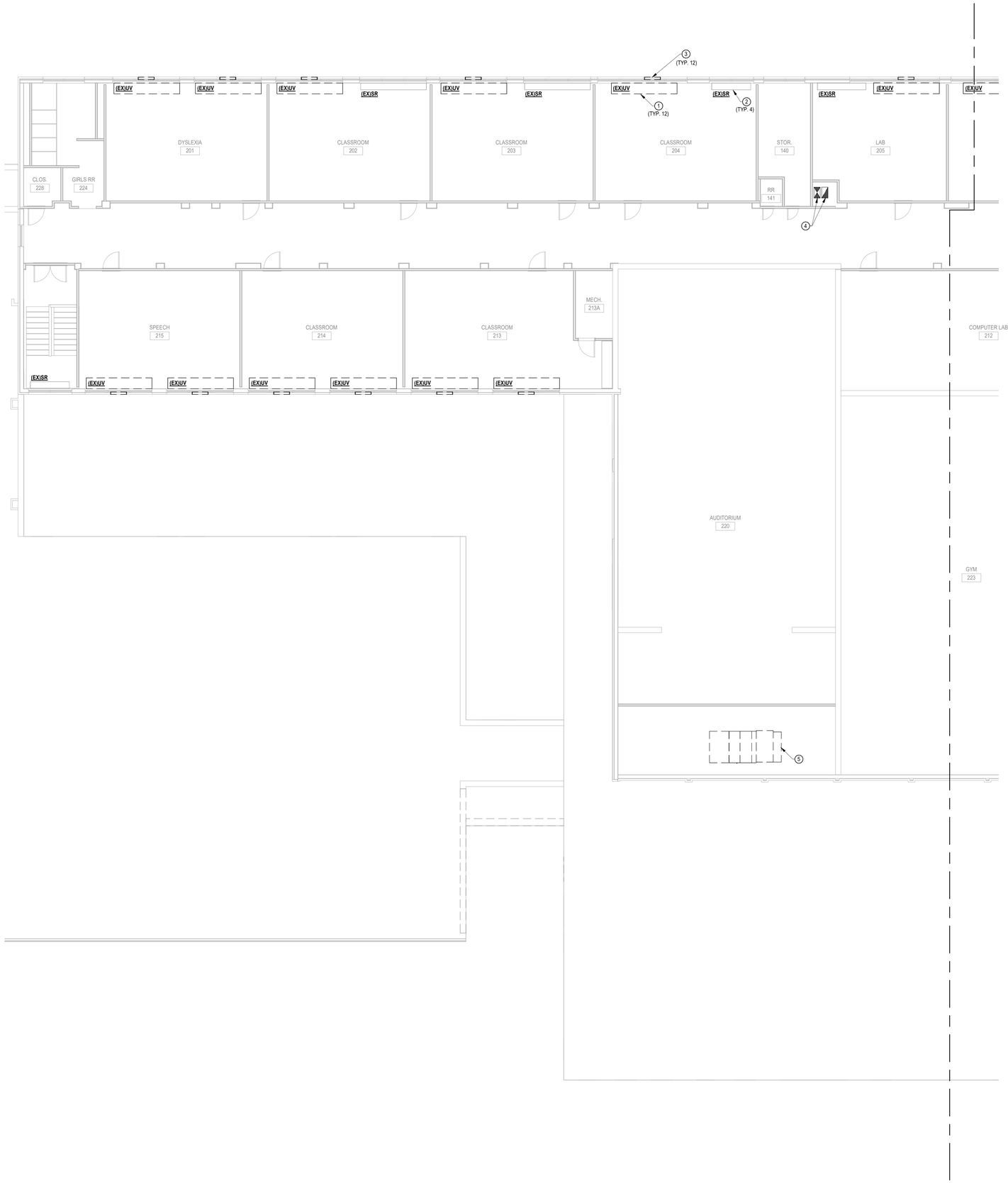
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1 HVAC SECOND FLOOR DEMOLITION PLAN 'AREA B'
SCALE: 1/8" = 1'-0"

LEGEND	
	EXISTING
	DEMOLITION

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.
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NOTES BY SYMBOL:

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2	STEAM RADIATORS TO BE ABANDONED IN PLACE. DEMOLISH ASSOCIATED STEAM PIPING AND CONTROLS. REFER TO ARCHITECTURAL PLANS FOR ASSOCIATED FINISH AND REPAIR WORK.
3	DEMOLISH EXISTING EXTERIOR PENETRATION PATCH COVER. DEMOLISH EXISTING EXTERIOR WALL LOUVER. PREPARE PENETRATION FOR INSTALLATION OF NEW LOUVER.
4	DEMOLISH EXISTING DUCTWORK FROM RTU ON ROOF TO FIRST FLOOR.
5	DISCONNECT AIR HANDLING UNIT FROM EXISTING DUCTWORK. DEMOLISH CHILLED WATER AND STEAM HEAT AIR HANDLING UNIT. DEMOLISH ASSOCIATED PIPING, HOUSEKEEPING PAD, PIPING SPECIALTIES, AND CONTROLS. EXISTING DUCTWORK TO REMAIN.

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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

STATE OF TEXAS
JAMES T. BARRON
83873
LICENSED
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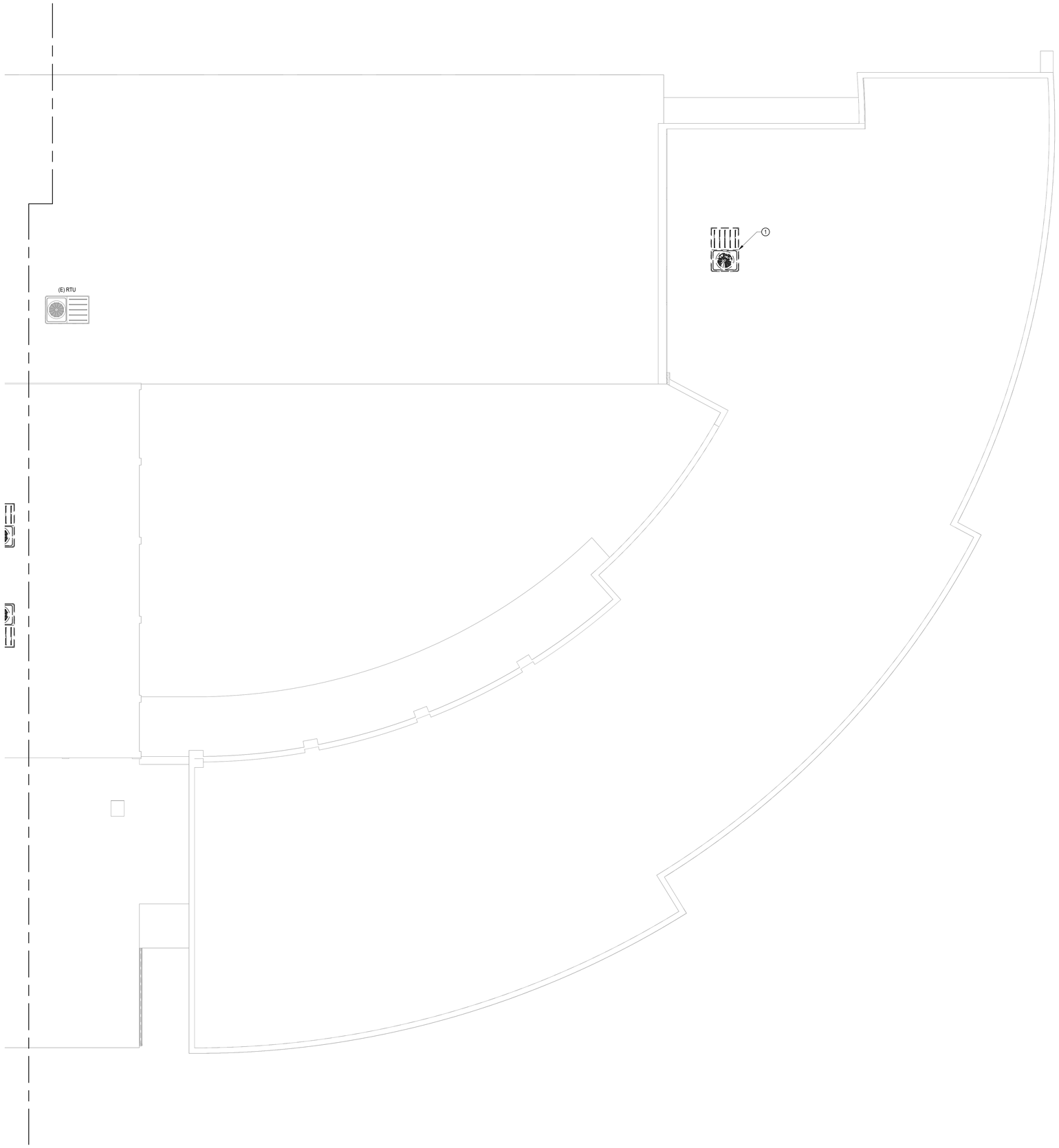
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1 HVAC ROOF DEMOLTION PLAN 'AREA A'
SCALE: 1/8" = 1'-0"

LEGEND	
———	EXISTING
– – – –	DEMOLITION

MECHANICAL GENERAL NOTES:

1. FINAL LOCATIONS OF ALL AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL CEILING FINISHES.
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6. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM NEAREST ROOF EDGE.

NOTES BY SYMBOL:

1	BID ALTERNATE: DEMOLISH PACKAGED DX ROOFTOP UNIT WITH GAS HEAT. DEMOLISH ASSOCIATED ROOF CURB, GAS PIPING CONNECTION, CONDENSATE DRAIN PIPING, AND CONTROLS.

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

JAMES T. BARRON
83873
LICENSED
STATE OF TEXAS
ARCHITECT

11/16/2025

B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
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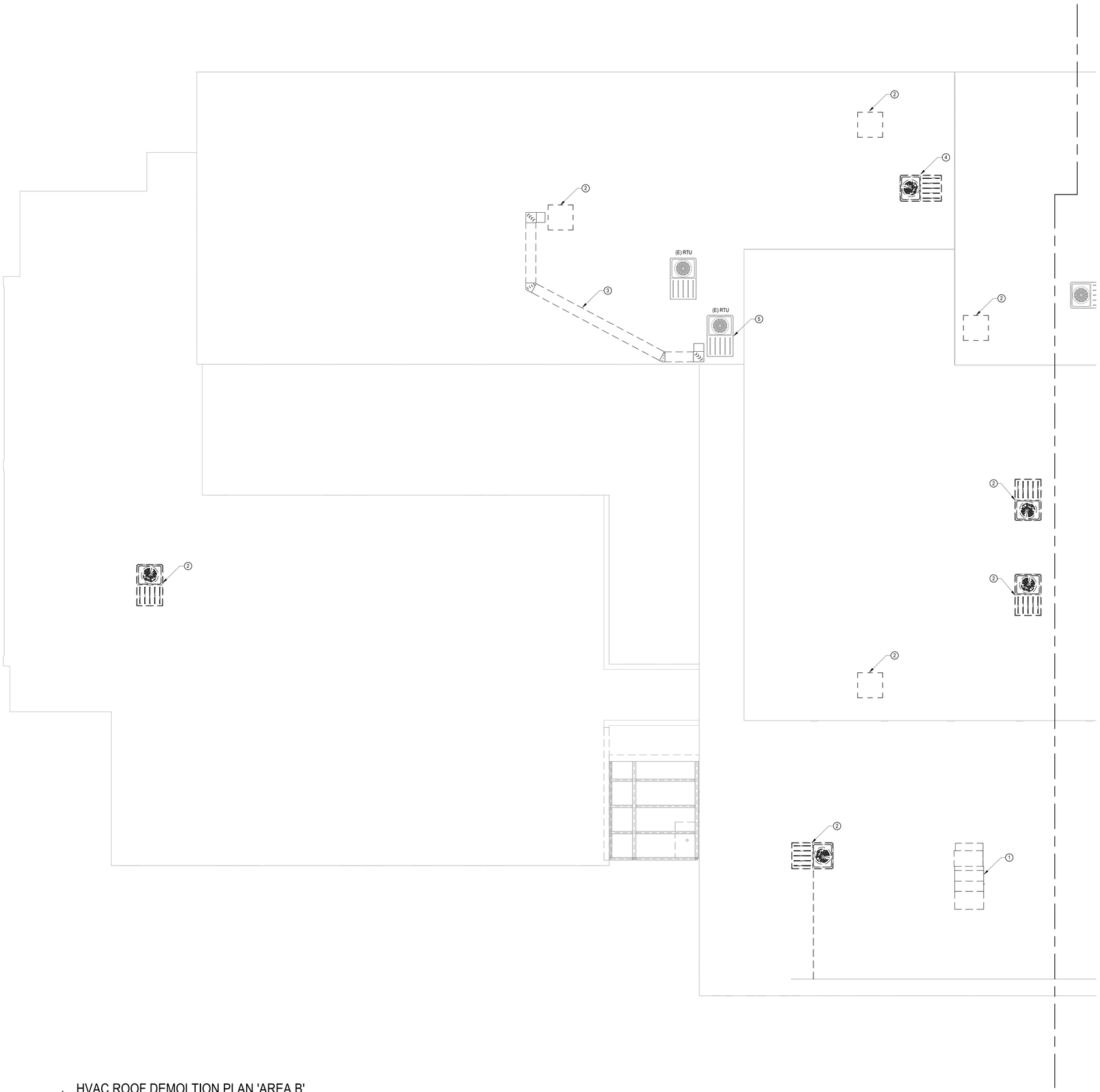
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1 HVAC ROOF DEMOLTION PLAN 'AREA B'
SCALE: 1/8" = 1'-0"

LEGEND	
	EXISTING
	DEMOLITION

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. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKESS OF THE NEW ROOF SYSTEM WORK SHALL INCLUDE THE REWORK OF ALL CONDUITS AND ASSOCIATED WIRING, J-BOX, GAS PIPING, CONDENSATE DRAIN LINES, REFRIGERANT SUPPLY AND RETURN LINES AND CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF EXISTING REFRIGERANT AND THE REINSTALLATION OF SAID REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO PROVIDE A FULLY CHARGED SYSTEM.
5. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKNESS OF THE NEW ROOF SYSTEM DEMOLISH AND REPLACE EXISTING ROOF CURBS FOR EXISTING TO REMAIN EQUIPMENT.
6. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM NEAREST ROOF EDGE.

NOTES BY SYMBOL:

1	DEMOLISH AIR HANDLING UNIT WITH CHILLED WATER COOLING. DEMOLISH ASSOCIATED ROOF CURB, PIPING CONNECTIONS, CONTROLS, AND ASSOCIATED DUCTWORK.
2	BID ALTERNATE: DEMOLISH PACKAGED DX ROOFTOP UNIT WITH GAS HEAT. DEMOLISH ASSOCIATED ROOF CURB, GAS PIPING CONNECTION, CONDENSATE DRAIN PIPING, AND CONTROLS.
3	DEMOLISH ROOF MOUNTED DUCTWORK. DEMOLISH ASSOCIATED STRUCTURAL SUPPORTS.
4	DEMOLISH PACKAGED DX ROOFTOP UNIT WITH GAS HEAT SERVING FRONT OFFICE. DEMOLISH ASSOCIATED ROOF CURB, GAS PIPING CONNECTION, CONDENSATE DRAIN PIPING TO JUST BELOW ROOF, AND CONTROLS. PREPARE CONDENSATE DRAIN PIPING
5	EXISTING RTU TO REMAIN. DISCONNECT FROM EXISTING DUCTWORK AND PREPARE FOR CONNECTION TO NEW DUCTWORK.

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

JAMES T. BARRON 83873 LICENSED ARCHITECT

11/16/2025

B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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HVAC ROOF DEMOLITION PLAN 'AREA B'

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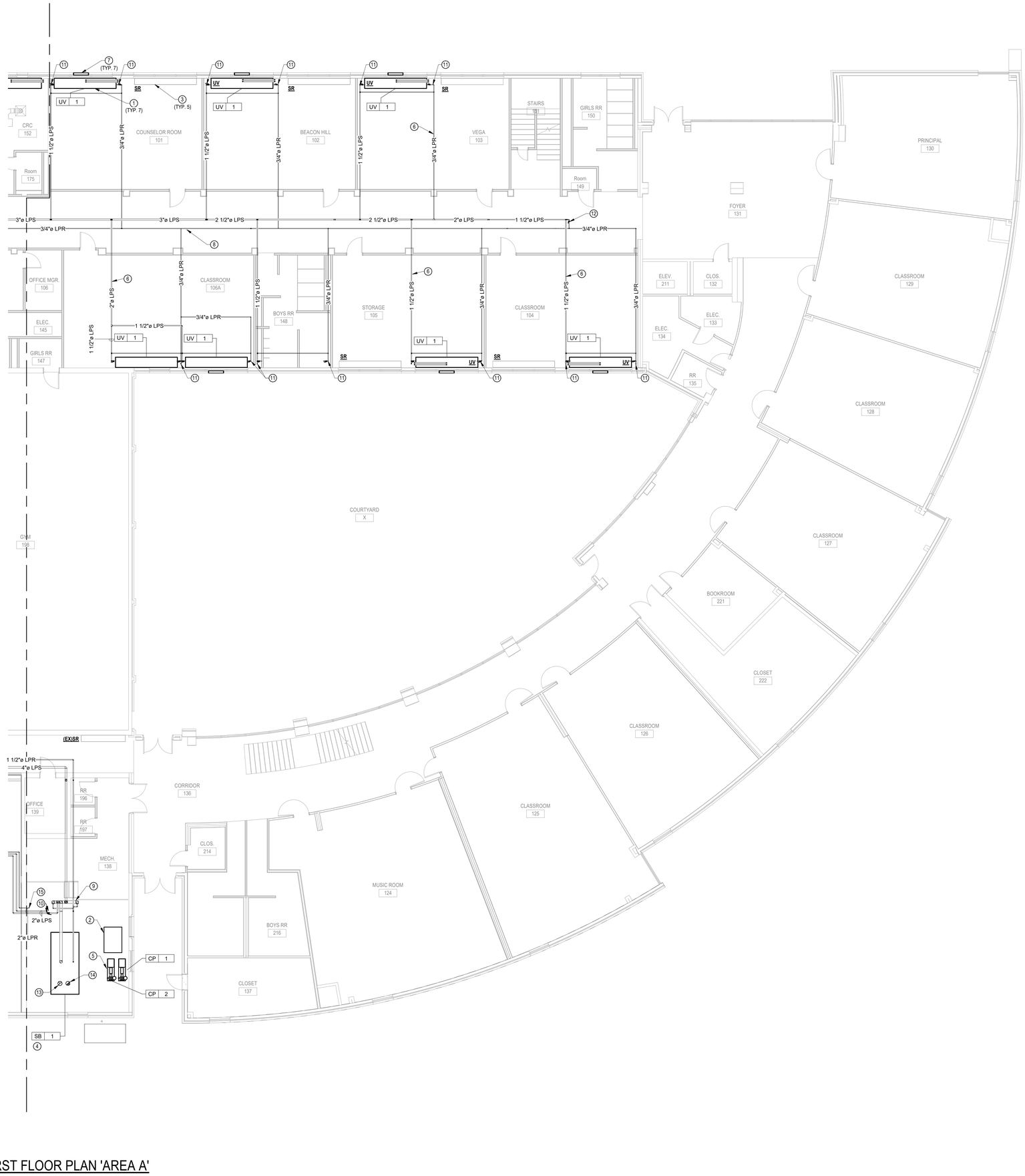
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1 HVAC FIRST FLOOR PLAN 'AREA A'
SCALE: 1/8" = 1'-0"

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. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKESS OF THE NEW ROOF SYSTEM WORK SHALL INCLUDE THE REWORK OF ALL CONDUITS AND ASSOCIATED WIRING, J-BOX, GAS PIPING, CONDENSATE DRAIN LINES, REFRIGERANT SUPPLY AND RETURN LINES AND CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF EXISTING REFRIGERANT AND THE REINSTALLATION OF SAID REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO PROVIDE A FULLY CHARGED SYSTEM.
5. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKNESS OF THE NEW ROOF SYSTEM DEMOLISH AND REPLACE EXISTING ROOF CURBS FOR EXISTING TO REMAIN EQUIPMENT.
6. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM NEAREST ROOF EDGE.

NOTES BY SYMBOL:

1	PROVIDE NEW UNIT VENTILATORS WITH STEAM HEAT AND CHILLED WATER COOLING SERVING CLASSROOMS. PROVIDE NEW STEAM AND CONDENSATE PIPING. CONNECT UNIT VENTILATORS TO EXISTING OUTDOOR AIR PENETRATIONS. PROVIDE UNIT VENTILATOR WITH NEW STEAM CONTROL VALVE. CONNECT UNIT VENTILATOR TO EXISTING OUTDOOR AIR DUCTWORK AND LOUVER. CONNECT UNIT VENTILATOR TO EXISTING CHILLED WATER COIL CONDENSATE PIPING. PROVIDE PIPING EXTENSION AND MODIFICATION AS NECCESSARY TO ACCOMMODATE NEW UNIT LOCATION.
2	PROVIDE ATLANTIC 100 FEEDWATER TANK.
3	STEAM RADIATORS TO BE ABANDONED IN PLACE.
4	PROVIDE NEW STEAM BOILER. PROVIDE NEW STEAM AND CONDENSATE PIPING, HOUSEKEEPING PAD, PIPING SPECIALTIES, CONTROLS. PROVIDE NEW COMBUSTION AIR FLUE.
5	PROVIDE NEW DUPLEX STEAM CONDENSATE PUMP CP-1, CP-2. PROVIDE NEW CONDENSATE PIPING, HOUSEKEEPING PAD, PIPING SPECIALTIES, AND CONTROLS
6	SLOPE STEAM RISER 1/2" PER FOOT AND PROVIDE DRIP LEG AND INVERTED BUCKET LARGE VALVE CONDENSATE TRAP PER STEAM BRANCH DETAIL.
7	UTILIZE EXISTING EXTERIOR WALL PENETRATION TO PROVIDE NEW OUTDOOR AIR INTAKE LOUVER. LOUVER TO BE 36"x12" WITH A MINIMUM 1.5 SQUARE FEET OF FREE AREA. PROVIDE POTTORFF #EFD437 LOUVER.
8	PROVIDE NEW STEAM PIPING WITHIN BUILDING. STEAM PIPING MAINS LOCATED UNDER SLAB.
9	PROVIDE 6" HEADER FOR STEAM SUPPLY. REFER TO BOILER HEADER DETAIL.
10	PROVIDE SHUT OFF VALVES FOR STEAM PIPING.
11	STEAM PIPING FROM BELOW GRADE UP TO FLOOR ABOVE.
12	PROVIDE STEAM TRAP TO CONDENSATE RETURN. REFER TO STEAM MAIN TRAP DETAIL.
13	NEW FLUE FROM STEAM BOILER. CONNECT TO EXISTING FLUE. CONTRACT TO FIELD VERIFY THAT EXISTING FLUE COMPLIES WITH MANUFACTURER'S SPECIFICATIONS.
14	NEW INTAKE FROM STEAM BOILER. CONNECT TO EXISTING INTAKE. CONTRACT TO FIELD VERIFY THAT EXISTING FLUE COMPLIES WITH MANUFACTURER'S SPECIFICATIONS.
15	1" CONDENSATE DRAIN PIPING ROUTED INTO MECHANICAL ROOM. ROUTE TO NEARTEST FLOOR SINK AND TERMINATE WITH AIR GAP. FIELD VERIFY EXACT LOCATION OF FLOOR SINK PRIOR TO INSTALLATION.

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

JAMES T. BARRON 83873 REGISTERED ARCHITECT

11/16/2025

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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HVAC FIRST FLOOR PLAN 'AREA A'

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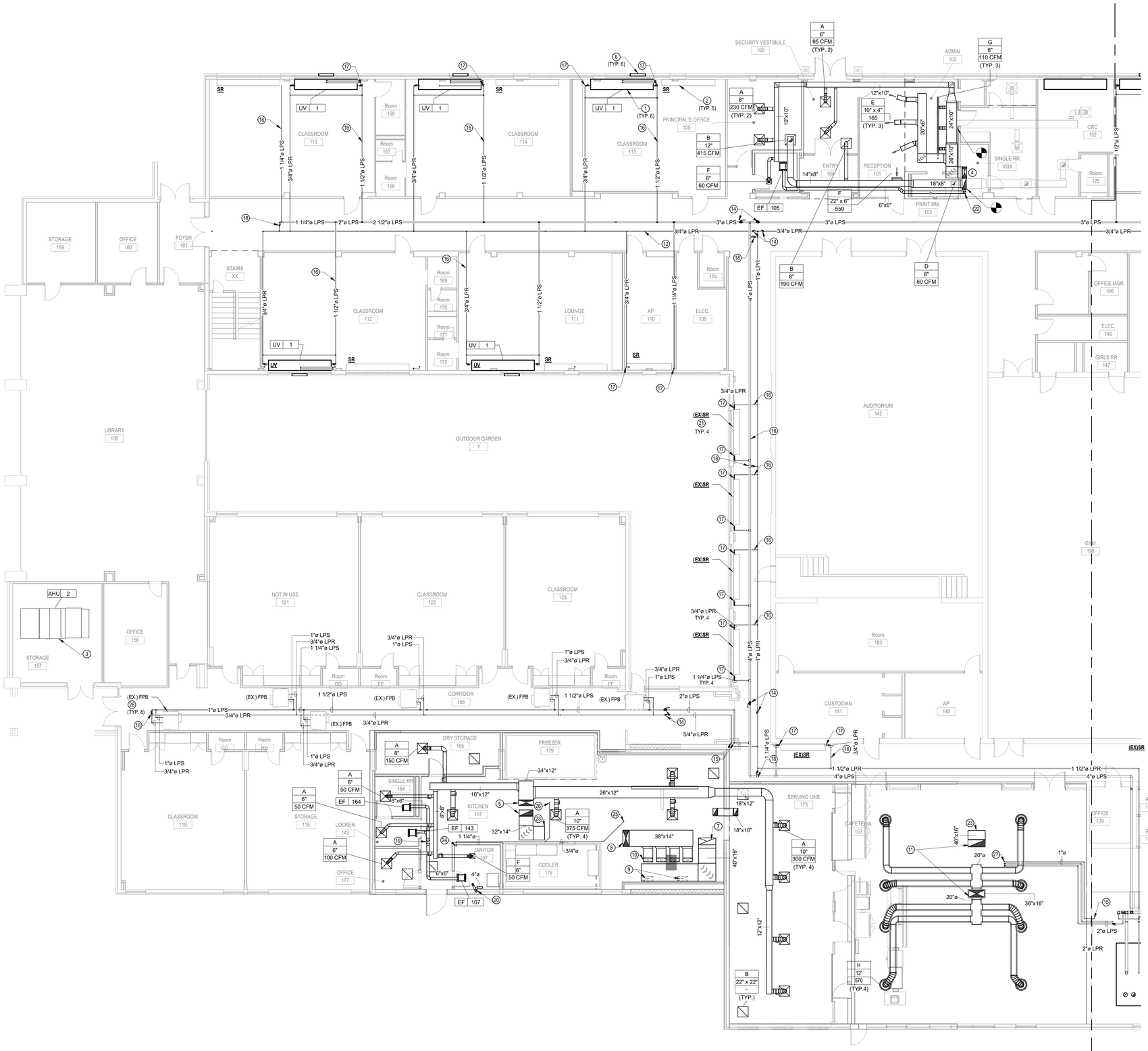
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1 HVAC FIRST FLOOR PLAN 'AREA B'
SCALE: 1/8" = 1'-0"

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. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKESS OF THE NEW ROOF SYSTEM WORK SHALL INCLUDE THE REWORK OF ALL CONDUITS AND ASSOCIATED WIRING, J-BOX, GAS PIPING, CONDENSATE DRAIN LINES, REFRIGERANT SUPPLY AND RETURN LINES AND CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF EXISTING REFRIGERANT AND THE REINSTALLATION OF SAID REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO PROVIDE A FULLY CHARGED SYSTEM.
5. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKNESS OF THE NEW ROOF SYSTEM DEMOLISH AND REPLACE EXISTING ROOF CURBS FOR EXISTING TO REMAIN EQUIPMENT.
6. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM NEAREST ROOF EDGE.

NOTES BY SYMBOL:

1	PROVIDE NEW UNIT VENTILATORS WITH STEAM HEAT AND CHILLED WATER COOLING SERVING CLASSROOMS. PROVIDE NEW STEAM AND CONDENSATE PIPING. CONNECT UNIT VENTILATORS TO EXISTING OUTDOOR AIR PENETRATIONS. PROVIDE UNIT VENTILATOR WITH NEW STEAM CONTROL VALVE. CONNECT UNIT VENTILATOR TO EXISTING OUTDOOR AIR DUCTWORK AND LOUVER. CONNECT UNIT VENTILATOR TO EXISTING CHILLED WATER COIL CONDENSATE PIPING. PROVIDE PIPING EXTENSION AND MODIFICATION AS NECCESSARY TO ACCOMMODATE NEW UNIT LOCATION.
2	STEAM RADIATORS TO BE ABANDONED IN PLACE.
3	PROVIDE NEW 20 TON CHILLED WATER AIR HANDLING UNIT. PROVIDE NEW PIPING, HOUSEKEEPING PAD, PIPING SPECIALTIES, AND CONTROLS. CONENCT TO EXISTING DUCTWORK.
4	PROVIDE NEW 265"x10" SUPPLY AIR AND 265"x10" RETURN AIR DUCTWORK SERVING NEW VESTIBULE AND ADMIN EXPANSION. ROUTE DUCTWORK UP IN CHASE TO RTU-6 ON ROOF.
5	PROVIDE NEW 28"x12" SUPPLY AIR AND 30"x12" RETURN AIR DUCTWORK SERVING NEW KITCHEN. ROUTE DUCTWORK UP TO RTU-2 ON ROOF.
6	UTILIZE EXISTING EXTERIOR WALL PENETRATION TO PROVIDE NEW OUTDOOR AIR INTAKE LOUVER. LOUVER TO BE 36"x12" WITH A MINIMUM 1.5 SQUARE FEET OF FREE AREA. PROVIDE POTTORFF #EFD437 LOUVER.
7	40"x16" EXHAUST AIR DUCTWORK UP TO KEF-1 ON ROOF.
8	38"x14" SUPPLY AIR DUCTWORK UP TO MAU-1 ON ROOF.
9	23"x10" EXHAUST AIR DUCTWORK. CONNECT TO NEW KITCHEN EXHAUST HOOD.
10	22"x8" SUPPLY AIR DUCTWORK. CONNECT TO NEW KITCHEN EXHAUST HOOD.
11	PROVIDE NEW 32"x16" SUPPLY AIR AND 36"x16" RETURN AIR DUCTWORK SERVING NEW CAFETERIA LAYOUT. ROUTE DUCTWORK UP TO AHU-2 ON ROOF.
12	PROVIDE NEW STEAM PIPING WITHIN BUILDING. STEAM PIPING MAINS LOCATED UNDER SLAB.
13	1" CONDENSATE DRAIN PIPING THROUGH ROOF.
14	PROVIDE SHUTOFF VALVES FOR STEAM PIPING.
15	STEAM FROM BELOW GRADE UP CHASE TO CEILING ABOVE. PROVIDE STEAM CONDENSATE TAKE OFF PER STEAM MAIN TRAP DETAIL.
16	SLOPE STEAM PIPING 1/2" PER FOOT AND PROVIDE DRIP LEG AND INVERTED BUCKET LARGE VALVE CONDENSATE TRAP PER STEAM BRANCH DETAIL.
17	STEAM PIPING FROM BELOW GRADE UP TO FLOOR ABOVE.
18	PROVIDE STEAM TRAP TO CONDENSATE RETURN. REFER TO STEAM MAIN TRAP DETAIL.
19	8"x8" EXHAUST AIR DUCTWORK UP TO EH-1 ON ROOF ABOVE.
20	PROVIDE 4" DRYER EXHAUST DUCT. CONNECT TO DRYER PER MANUFACTURER RECOMMENDATION. ROUTE EXHAUST DUCT IN WALL TO ROOF. TERMINATE AT ROOF WITH DRYER EXHAUST CAP. DO NOT PROVIDE ANY BIRD SCREEN OR BACKDRAFT DAMPER IN EXHAUST DUCT OR ROOF CAP.
21	CONNECT EXISTING STEAM RADIATOR TO NEW PIPING.
22	6" X 6" EXHAUST AIR DUCT ROUTED UP THROUGH CHASE TO ROOF LEVEL. TERMINATE AT ROOF LEVEL WITH EXHAUST AIR ROOF CAP.
23	PROVIDE OPEN END OF RETURN DUCT WITH STAINLESS STEEL MESH SCREEN.
24	1-1/4" CONDENSATE DRAIN PIPING DOWN TO MOP SINK. PROVIDE WITH INSULATION AND TERMINATE WITH AIR GAP.
25	3/4" CONDENSATE DRAIN PIPING FROM MAU-1 ON ROOF.
26	3/4" CONDENSATE DRAIN PIPING FROM RTU-2 ON ROOF.
27	1" CONDENSATE DRAIN PIPING FROM AHU-1 ON ROOF.
28	PROVIDE NEW STEAM CONTROL VALVES AND PIPING CONNECTIONS TO EXISTING TO REMAIN FAN POWERED BOX.

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

JAMES T. BARRON 83873 REGISTERED PROFESSIONAL ENGINEER

11/16/2025

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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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HVAC FIRST FLOOR PLAN 'AREA B'

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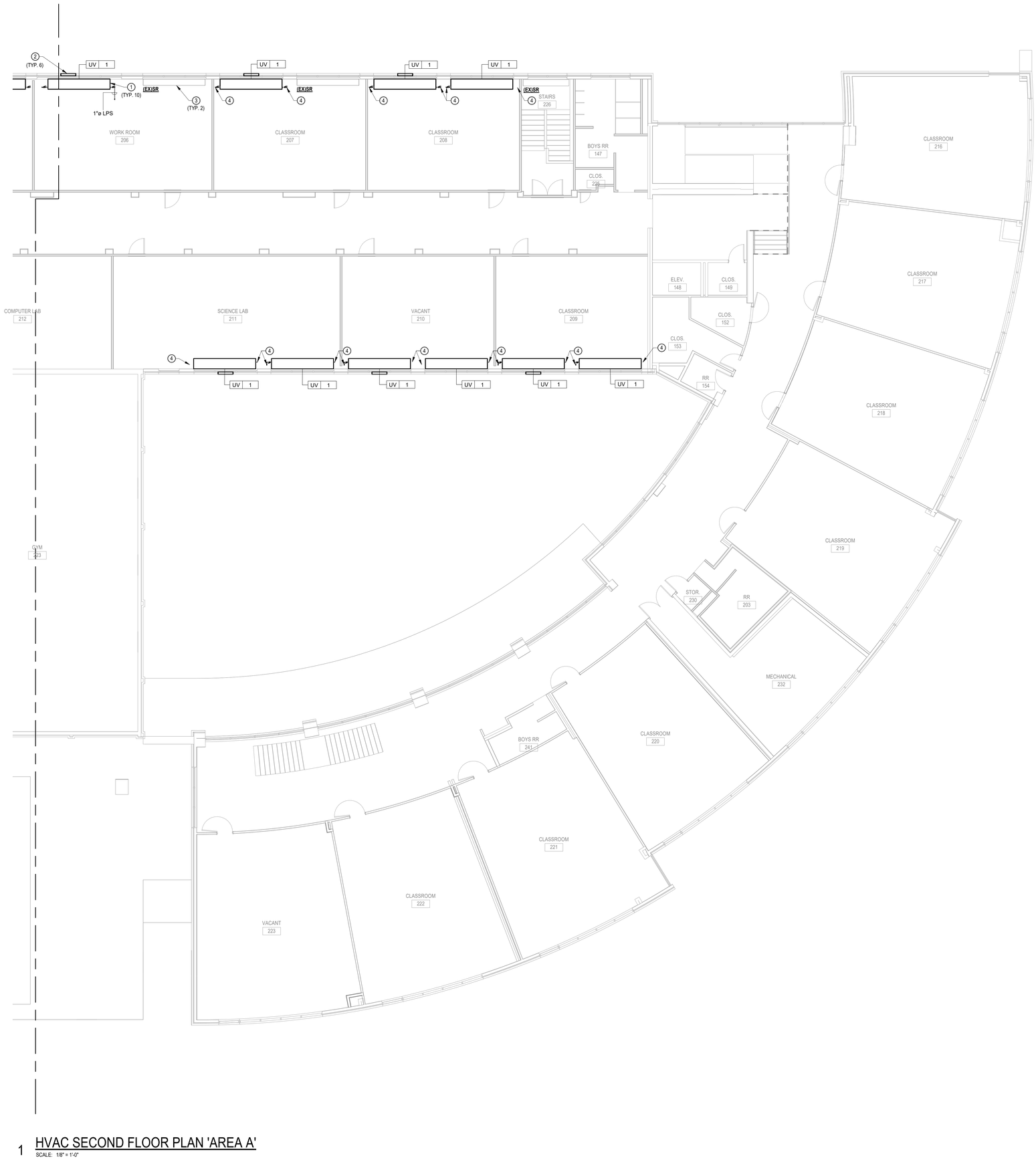
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1 HVAC SECOND FLOOR PLAN 'AREA A'
SCALE: 1/8" = 1'-0"

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. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKESS OF THE NEW ROOF SYSTEM WORK SHALL INCLUDE THE REWORK OF ALL CONDUITS AND ASSOCIATED WIRING, J-BOX, GAS PIPING, CONDENSATE DRAIN LINES, REFRIGERANT SUPPLY AND RETURN LINES AND CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF EXISTING REFRIGERANT AND THE REINSTALLATION OF SAID REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO PROVIDE A FULLY CHARGED SYSTEM.
5. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKNESS OF THE NEW ROOF SYSTEM DEMOLISH AND REPLACE EXISTING ROOF CURBS FOR EXISTING TO REMAIN EQUIPMENT.
6. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM NEAREST ROOF EDGE.

NOTES BY SYMBOL:

1	PROVIDE NEW UNIT VENTILATORS WITH STEAM HEAT AND CHILLED WATER COOLING SERVING CLASSROOMS. PROVIDE NEW STEAM AND CONDENSATE PIPING. CONNECT UNIT VENTILATORS TO EXISTING OUTDOOR AIR PENETRATIONS. PROVIDE UNIT VENTILATOR WITH NEW STEAM CONTROL VALVE. CONNECT UNIT VENTILATOR TO EXISTING OUTDOOR AIR DUCTWORK AND LOUVER. CONNECT UNIT VENTILATOR TO EXISTING CHILLED WATER COIL CONDENSATE PIPING. PROVIDE PIPING EXTENSION AND MODIFICATION AS NECCESSARY TO ACCOMMODATE NEW UNIT LOCATION.
2	UTILIZE EXISTING EXTERIOR WALL PENETRATION TO PROVIDE NEW OUTDOOR AIR INTAKE LOUVER. LOUVER TO BE 36"x12" WITH A MINIMUM 1.5 SQUARE FEET OF FREE AREA. PROVIDE POTTORFF #EFD437 LOUVER.
3	STEAM RADIATORS TO BE ABANDONED IN PLACE.
4	NEW STEAM PIPING TO UNIT VENTILATOR FROM FLOOR BELOW.

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

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

STATE OF TEXAS
JAMES T. BARRON
83873
LICENSED PROFESSIONAL ENGINEER

11/16/2025

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HVAC SECOND FLOOR PLAN 'AREA A'

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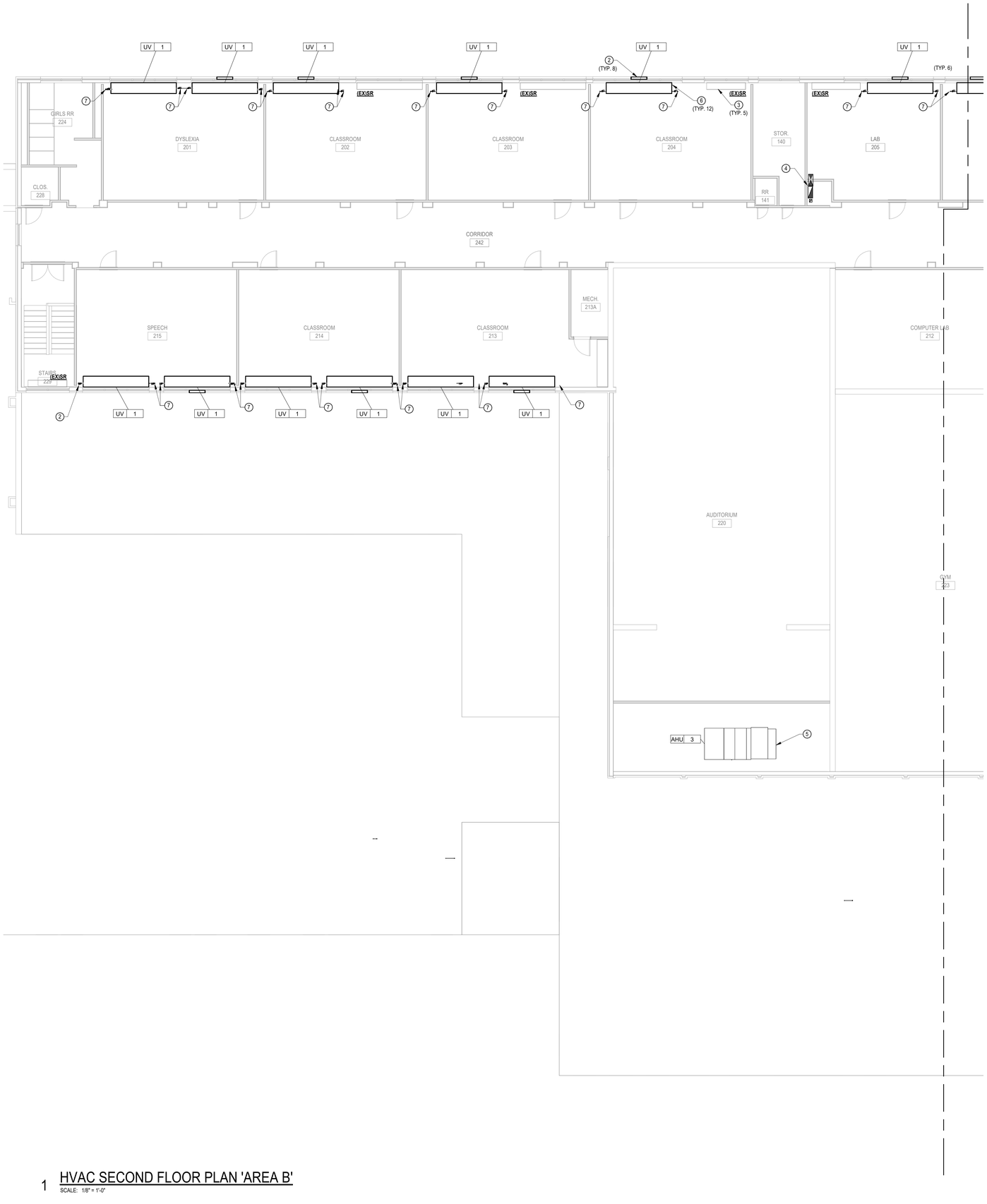
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1 HVAC SECOND FLOOR PLAN 'AREA B'
SCALE: 1/8" = 1'-0"

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. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKESS OF THE NEW ROOF SYSTEM WORK SHALL INCLUDE THE REWORK OF ALL CONDUITS AND ASSOCIATED WIRING, J-BOX, GAS PIPING, CONDENSATE DRAIN LINES, REFRIGERANT SUPPLY AND RETURN LINES AND CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF EXISTING REFRIGERANT AND THE REINSTALLATION OF SAID REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO PROVIDE A FULLY CHARGED SYSTEM.
5. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKNESS OF THE NEW ROOF SYSTEM DEMOLISH AND REPLACE EXISTING ROOF CURBS FOR EXISTING TO REMAIN EQUIPMENT.
6. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM NEAREST ROOF EDGE.

NOTES BY SYMBOL:

1	PROVIDE NEW UNIT VENTILATORS WITH STEAM HEAT AND CHILLED WATER COOLING SERVING CLASSROOMS. PROVIDE NEW STEAM AND CONDENSATE PIPING. CONNECT UNIT VENTILATORS TO EXISTING OUTDOOR AIR PENETRATIONS. PROVIDE UNIT VENTILATOR WITH NEW STEAM CONTROL VALVE. CONNECT UNIT VENTILATOR TO EXISTING OUTDOOR AIR DUCTWORK AND LOUVER. CONNECT UNIT VENTILATOR TO EXISTING CHILLED WATER COIL CONDENSATE PIPING. PROVIDE PIPING EXTENSION AND MODIFICATION AS NECCESSARY TO ACCOMMODATE NEW UNIT LOCATION.
2	UTILIZE EXISTING EXTERIOR WALL PENETRATION TO PROVIDE NEW OUTDOOR AIR INTAKE LOUVER. LOUVER TO BE 36"x12" WITH A MINIMUM 1.5 SQUARE FEET OF FREE AREA. PROVIDE POTTORFF #EFD437 LOUVER.
3	STEAM RADIATORS TO BE ABANDONED IN PLACE.
4	18"x8" SUPPLY AIR AND 22"x8" RETURN AIR DUCTWORK FROM FIRST FLOOR. ROUTE UP TO RTU ON ROOF.
5	PROVIDE NEW 20 TON CHILLED WATER AND STEAM HEAT AIR HANDLING UNIT. PROVIDE NEW PIPING, HOUSEKEEPING PAD, PIPING SPECIALTIES, AND CONTROLS. PROVIDE WITH NEW STEAM CONTROL VALVE.
6	PROVIDE NEW UNIT VENTILATORS WITH STEAM HEAT AND CHILLED WATER COOLING SERVING CLASSROOMS. PROVIDE NEW STEAM AND CONDENSATE PIPING. CONNECT UNIT VENTILATORS TO EXISTING OUTDOOR AIR PENETRATIONS. PROVIDE UNIT VENTILATOR WITH NEW STEAM CONTROL VALVE.
7	NEW STEAM PIPING TO UNIT VENTILATOR FROM FLOOR BELOW.

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

JAMES T. BARRON 83873 LICENSED ARCHITECT

11/16/2025

511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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HVAC SECOND FLOOR PLAN 'AREA B'

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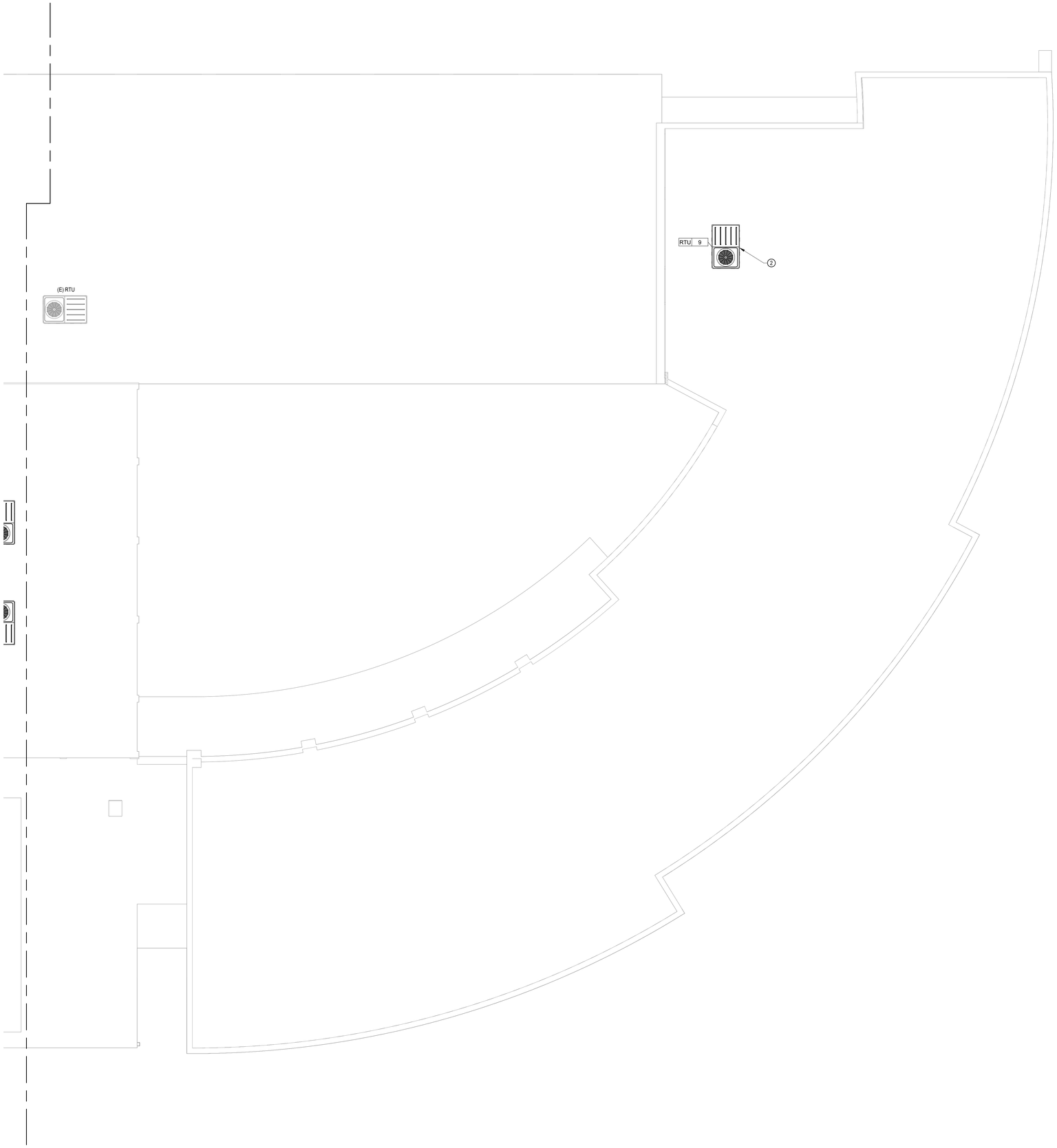
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1 HVAC ROOF PLAN 'AREA A'
SCALE: 1/8" = 1'-0"

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. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKESS OF THE NEW ROOF SYSTEM WORK SHALL INCLUDE THE REWORK OF ALL CONDUITS AND ASSOCIATED WIRING, J-BOX, GAS PIPING, CONDENSATE DRAIN LINES, REFRIGERANT SUPPLY AND RETURN LINES AND CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF EXISTING REFRIGERANT AND THE REINSTALLATION OF SAID REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO PROVIDE A FULLY CHARGED SYSTEM.
5. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKNESS OF THE NEW ROOF SYSTEM DEMOLISH AND REPLACE EXISTING ROOF CURBS FOR EXISTING TO REMAIN EQUIPMENT.
6. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM NEAREST ROOF EDGE.

NOTES BY SYMBOL:

2	BID ALTERNATE: PROVIDE NEW 5 TON PACKAGED DX ROOFTOP UNIT WITH GAS HEAT. PROVIDE WITH NEW ROOF CURB, GAS PIPING CONNECTION, CONDENSATE DRAIN PIPING, AND CONTROLS.

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

JAMES T. BARRON
83873
LICENSED
11/16/2025

B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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HVAC ROOF PLAN 'AREA A'

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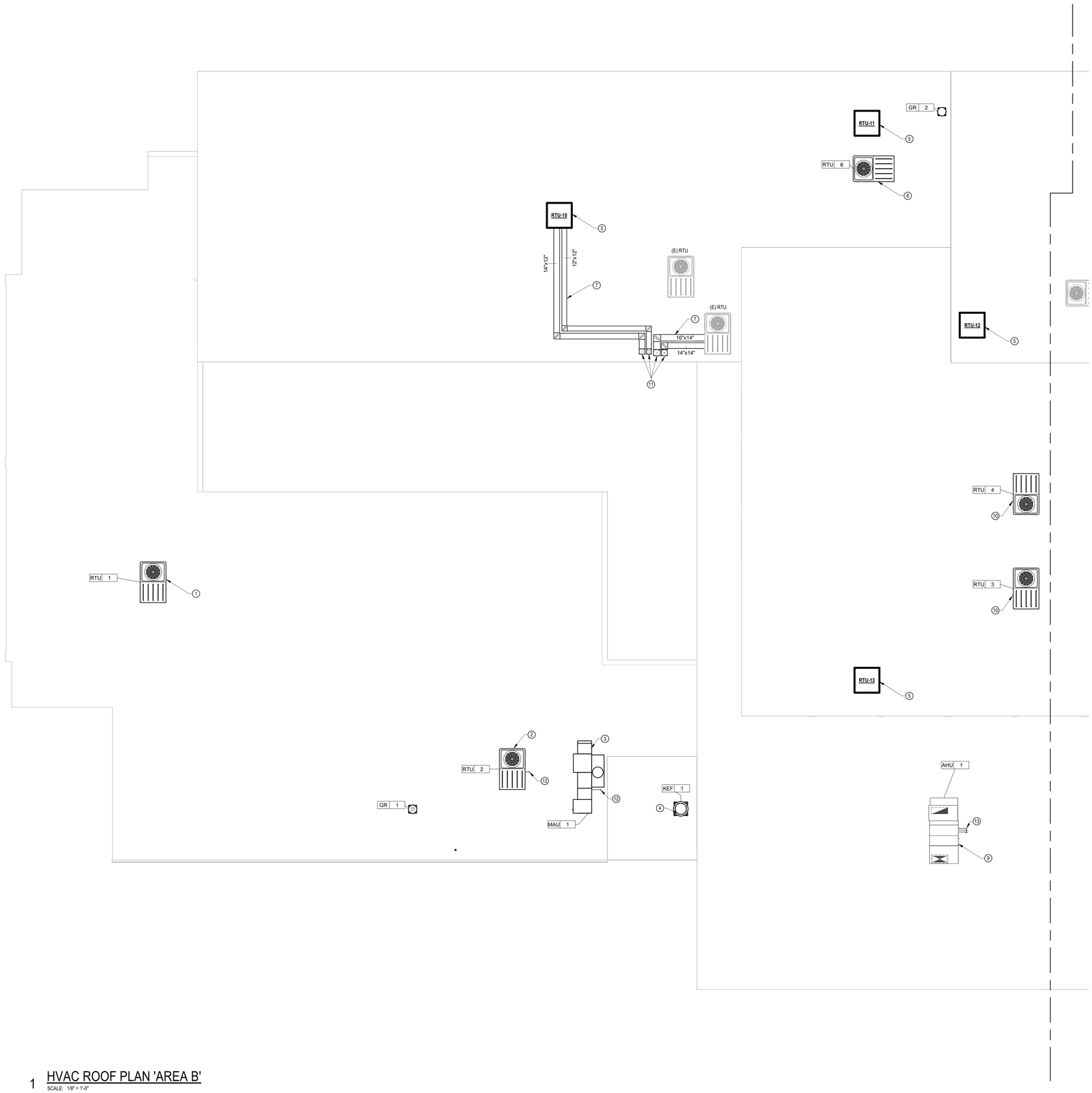
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1 HVAC ROOF PLAN 'AREA B'
SCALE: 1/8" = 1'-0"

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. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKESS OF THE NEW ROOF SYSTEM WORK SHALL INCLUDE THE REWORK OF ALL CONDUITS AND ASSOCIATED WIRING, J-BOX, GAS PIPING, CONDENSATE DRAIN LINES, REFRIGERANT SUPPLY AND RETURN LINES AND CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF EXISTING REFRIGERANT AND THE REINSTALLATION OF SAID REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO PROVIDE A FULLY CHARGED SYSTEM.
5. WHERE EXISTING ROOFTOP EQUIPMENT IS RAISED TO ACCOMMODATE THE THICKNESS OF THE NEW ROOF SYSTEM DEMOLISH AND REPLACE EXISTING ROOF CURBS FOR EXISTING TO REMAIN EQUIPMENT.
6. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM NEAREST ROOF EDGE.

NOTES BY SYMBOL:

1	BID ALTERNATE: PROVIDE NEW 8.5 TON PACKAGED DX ROOFTOP UNIT WITH GAS HEAT SERVING LIBRARY/MEDIA CENTER. PROVIDE WITH NEW ROOF CURB, GAS PIPING CONNECTION, CONDENSATE DRAIN PIPING, AND CONTROLS.
2	PROVIDE NEW PACKAGED DX ROOFTOP UNIT WITH GAS HEAT SERVING EXPANDED KITCHEN. PROVIDE WITH NEW ROOF CURB, GAS PIPING CONNECTION, CONDENSATE DRAIN PIPING, AND CONTROLS.
3	PROVIDE NEW MAKEUP AIR UNIT WITH GAS HEAT SERVING KITCHEN HOOD. PROVIDE WITH NEW ROOF CURB, GAS PIPING CONNECTION, CONDENSATE DRAIN PIPING, AND CONTROLS. CONTRACTOR TO FIELD COORDINATE INSTALLATION LOCATION. MAU INTAKE HOOD SHALL BE A MINIMUM 10' FROM KITCHEN REFIGERATION UNIT AND ALL EXHAUST OUTLETS.
4	PROVIDE NEW GREASE EXHAUST FAN SERVING KITCHEN HOOD. PROVIDE WITH NEW ROOF CURB AND CONTROLS.
5	BID ALTERNATE: PROVIDE NEW 2.5 TON PACKAGED DX ROOFTOP UNIT WITH GAS HEAT. PROVIDE WITH NEW ROOF CURB, GAS PIPING CONNECTION, CONDENSATE DRAIN PIPING, AND CONTROLS.
7	PROVIDE NEW ROOF MOUNTED DOUBLE WALL DUCTWORK. PROVIDE WITH NEW STRUCTURAL SUPPORT CAPABLE OF WITHSTANDING 100 MPH WINDS.
8	PROVIDE NEW 5 TON PACKAGED DX ROOFTOP UNIT WITH GAS HEAT SERVING NEW FRONT VESTIBUE LAYOUT. PROVIDE WITH NEW ROOF CURB, GAS PIPING CONNECTION, CONDENSATE DRAIN PIPING EXTENSION, AND CONTROLS. CONNEC TO EXISTING CONDENSATE DRAIN PIPING BELOW ROOF.
9	PROVIDE NEW 25 TON AIR HANDLING UNIT WITH CHILLED WATER COOLING. PROVIDE WITH NEW ROOF CURB, PIPING CONNECTIONS, AND CONTROLS.
10	BID ALTERNATE: PROVIDE NEW 7.5 TON PACKAGED DX ROOFTOP UNIT WITH GAS HEAT SERVING GYMNASIUM. PROVIDE WITH NEW ROOF CURB, GAS PIPING CONNECTION, CONDENSATE DRAIN PIPING, AND CONTROLS.
11	CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AT ROOF LEVEL. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING DUCTWORK PRIOR TO INSTALLATION.
12	3/4" CONDENSATE DRAIN PIPING THROUGH ROOF.

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

JAMES T. BARRON 83873 LICENSED ARCHITECT

11/16/2025

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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HVAC ROOF PLAN 'AREA B'

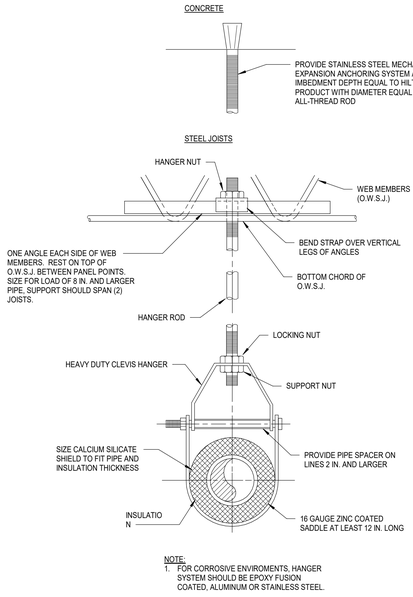
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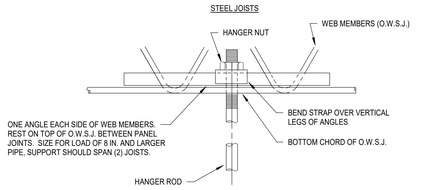
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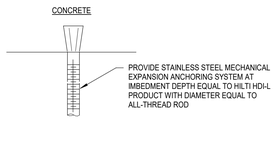
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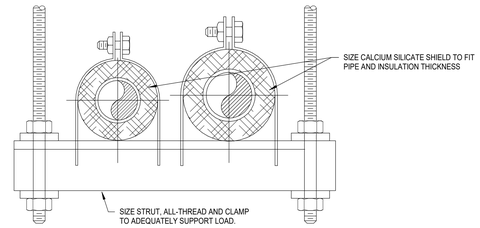


NOTE:
1. FOR CORROSIVE ENVIROMENTS, HANGER SYSTEM SHOULD BE EPOXY FUSION COATED, ALUMINUM OR STAINLESS STEEL.

10 SINGLE INSULATED PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE

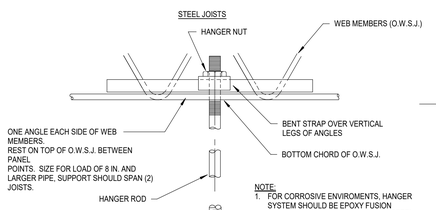


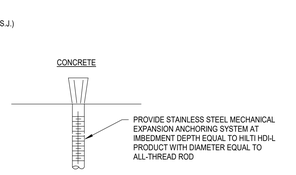




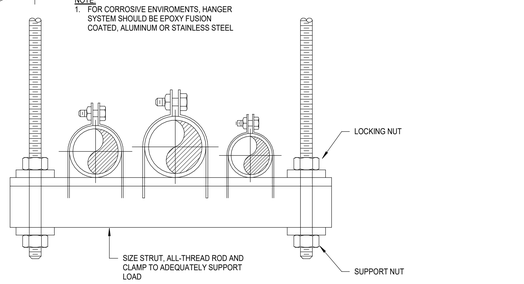
NOTE:
1. FOR CORROSIVE ENVIROMENTS, HANGER SYSTEM SHOULD BE EPOXY FUSION COATED, ALUMINUM OR STAINLESS STEEL

9 STRUT TYPE INSULATED PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE

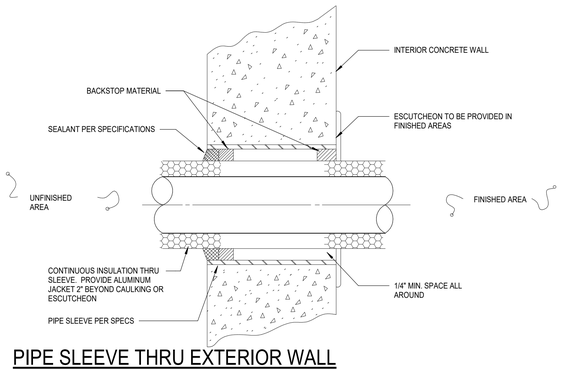




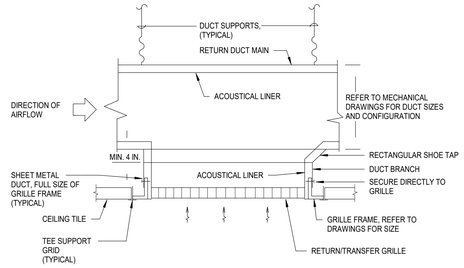
NOTE:
1. FOR CORROSIVE ENVIROMENTS, HANGER SYSTEM SHOULD BE EPOXY FUSION COATED, ALUMINUM OR STAINLESS STEEL



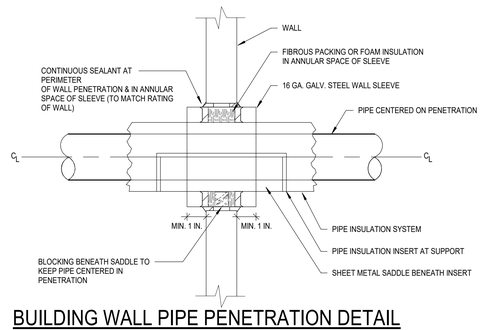
8 STRUT TYPE PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE



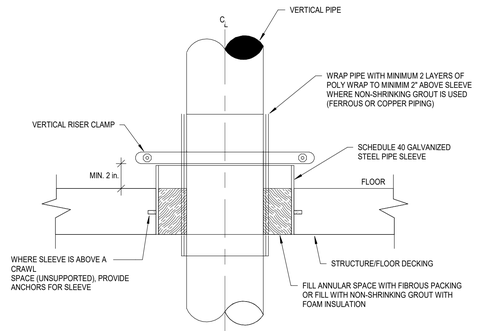
7 PIPE SLEEVE THRU EXTERIOR WALL
SCALE: NOT TO SCALE



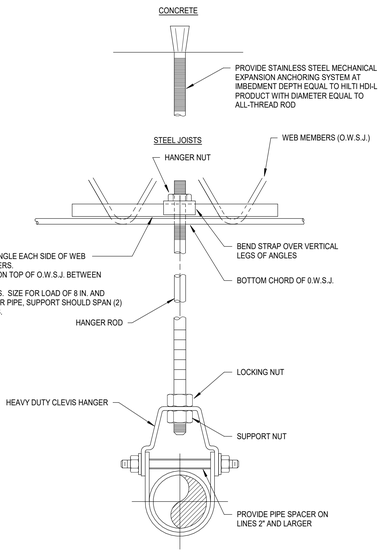
6 RETURN-TRANSFER AIR GRILLE DETAIL
SCALE: NOT TO SCALE



5 BUILDING WALL PIPE PENETRATION DETAIL
SCALE: NOT TO SCALE



4 THROUGH FLOOR PIPE PENETRATION DETAIL
SCALE: NOT TO SCALE

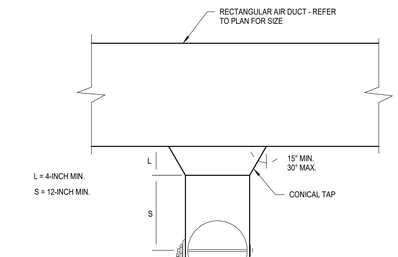


NOTE:
1. FOR CORROSIVE ENVIROMENTS, HANGER SYSTEM SHOULD BE EPOXY FUSION COATED, ALUMINUM OR STAINLESS STEEL.

3 SINGLE PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE

NOTE:
1. TYPICAL INSTALLATION DETAIL TO BE APPLIED TO RECTANGULAR BRANCH DUCT TAKE-OFFS FROM RECTANGULAR TRUNK DUCTS. APPLIES TO SUPPLY, RETURN, AND EXHAUST DUCTS.

2 LOW PRESS RECTANGULAR BRANCH TAKEOFF
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.

1 TYPICAL LOW PRESSURE ROUND DUCT BRANCH TAKE-OFF
SCALE: NOT TO SCALE

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

JAMES T. BARRON 83873 LICENSED ARCHITECT STATE OF TEXAS

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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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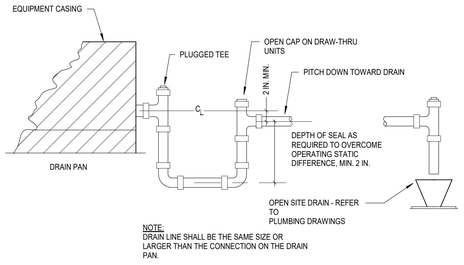
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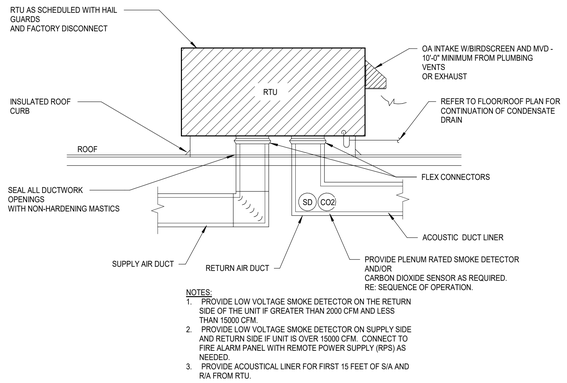
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6 TYPICAL AHU-FCU COND. DRAIN TRAP DETAIL

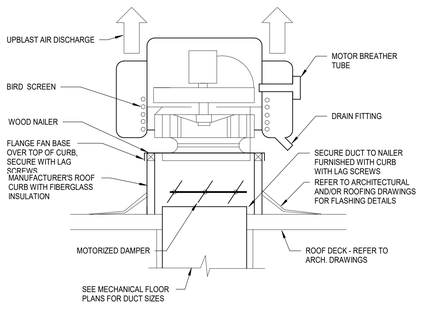
SCALE: NOT TO SCALE



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

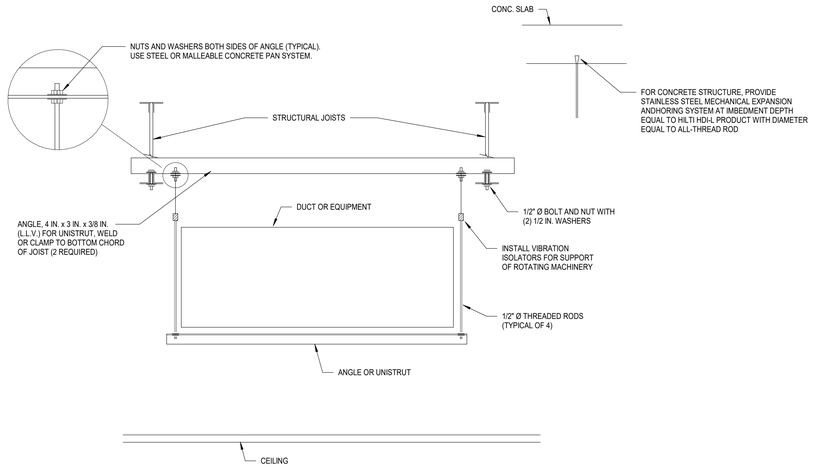
3 ROOFTOP A-C UNIT DETAIL

SCALE: NOT TO SCALE



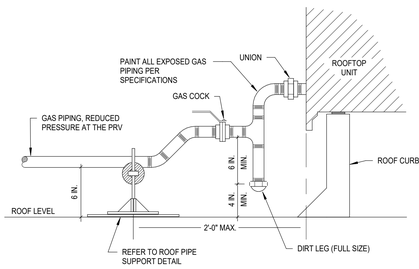
5 ROOFTOP CENTRIFUGAL EXH FAN DETAIL

SCALE: 12" = 1'-0"



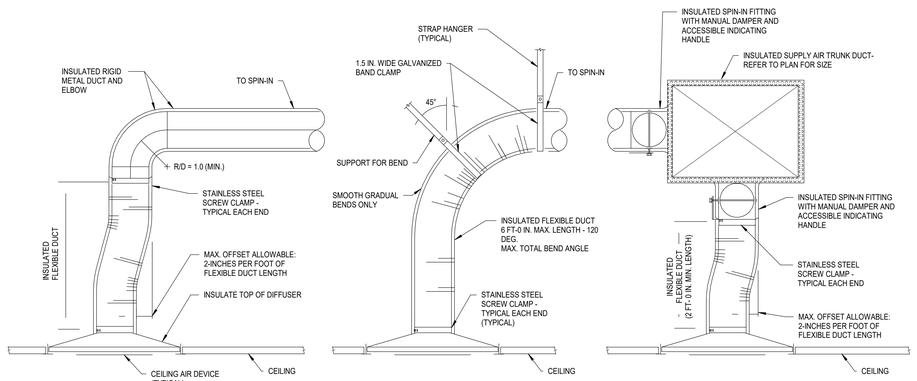
2 TYPICAL DUCT/EQUIP. SUPPORT DETAIL

SCALE: NOT TO SCALE



4 RTU GAS CONNECTION DETAIL

SCALE: NOT TO SCALE



1 LOW PRESSURE BRANCH DUCT TO DIFFUSER

SCALE: NOT TO SCALE

DETAIL NOTES:

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

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

JAMES T. BARRON 83873 LICENSED STATE OF TEXAS
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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
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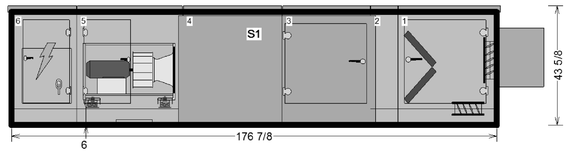
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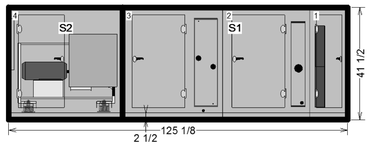


For maneuvering purposes, include 1.125 inches to each ship split length for overlapping panel flange. Flange will not add to overall installed unit length sh

Pos #	Module	Length	Weight
1	Air mixing section	36	415.43
2	Access section	10	93.77
3	Coil section	32 1/4	437.17
4	Coil section	36 1/4	609.22
5	Fan section	38 5/8	733.88
6	Controls section	23 7/8	281.00
	Roof Curb		250.46
	Installed Unit Weight		2820.93 lbs

9 AHU-3 DETAIL
SCALE: NOT TO SCALE

Shipping splits are indicated by thick black lines



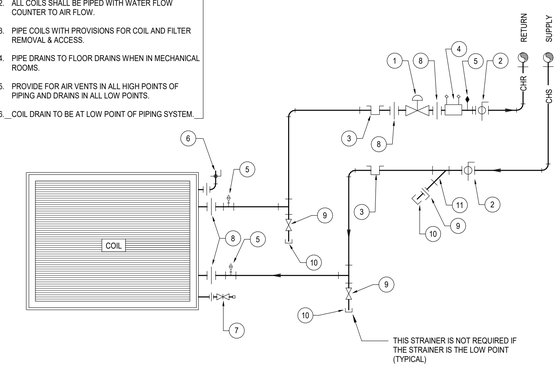
For maneuvering purposes, include 1.125 inches to each ship split length for overlapping panel flange. Flange will not add to overall installed unit length sh

Pos #	Module	Length	Weight
1	Filter section	14	134.00
2	Coil section	32 1/4	324.37
3	Coil section	36 7/8	512.05
4	Fan section	42 1/8	802.52
	Installed Unit Weight		1772.94 lbs

8 AHU-1 DETAIL
SCALE: NOT TO SCALE

GENERAL NOTES:

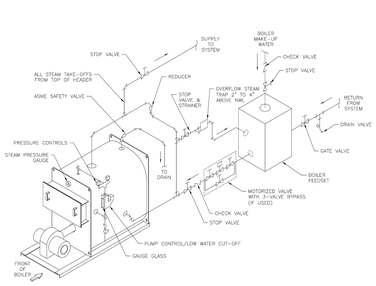
1. ALL COILS TO HAVE 2-WAY VALVE PIPING UNLESS OTHERWISE NOTED ON FLOOR PLANS TO HAVE A 3-WAY VALVE.
2. ALL COILS SHALL BE PIPED WITH WATER FLOW COUNTER TO AIR FLOW.
3. PIPE COILS WITH PROVISIONS FOR COIL AND FILTER REMOVAL & ACCESS.
4. PIPE DRAINS TO FLOOR DRAINS WHEN IN MECHANICAL ROOMS.
5. PROVIDE FOR AIR VENTS IN ALL HIGH POINTS OF PIPING AND DRAINS IN ALL LOW POINTS.
6. COIL DRAIN TO BE AT LOW POINT OF PIPING SYSTEM.



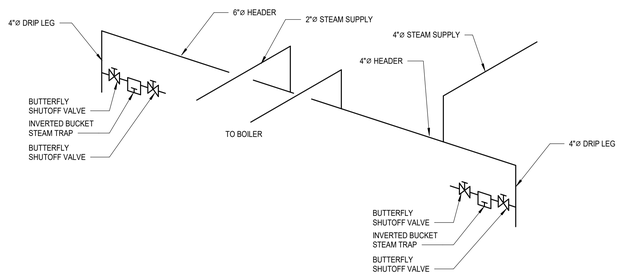
DETAIL NOTES BY SYMBOL:

1	PROPORTIONAL 2-WAY WATER CONTROL VALVE
2	ISOLATION VALVE
3	THERMOMETER WELL
4	PRESSURE INDEPENDENT FLOW CONTROL VALVE
5	PETE'S PLUG
6	MANUAL AIR VENT [NEEDLE VALVE W/PLUG (CAP)]
7	3/4" DRAIN VALVE W/HOSE ADAPTOR & CAP
8	UNION
9	BALL VALVE WITH HOSE ADAPTOR & CAP
10	REMOVABLE CAP
11	"Y" STRAINER

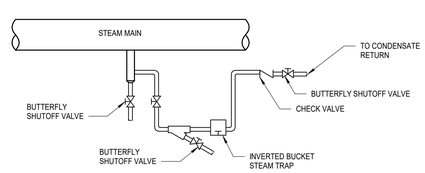
7 CHILLED WATER COIL WITH 2 WAY VALVE - AHU
SCALE: NOT TO SCALE



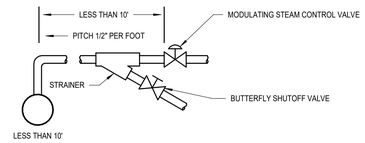
6 BOILER DETAIL
SCALE: NOT TO SCALE

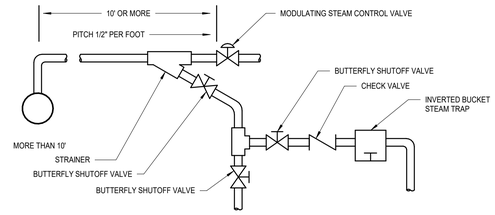


5 BOILER HEADER DETAIL
SCALE: NOT TO SCALE

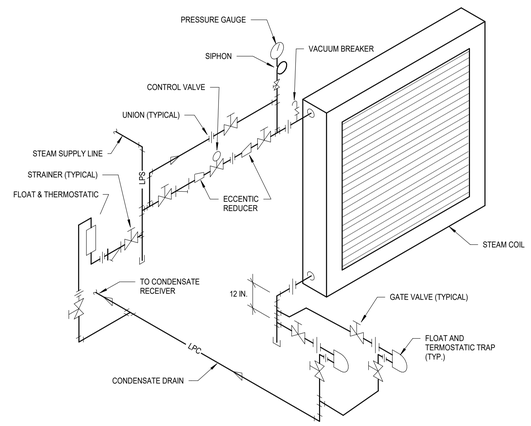


4 STEAM MAIN TRAP DETAIL
SCALE: NOT TO SCALE

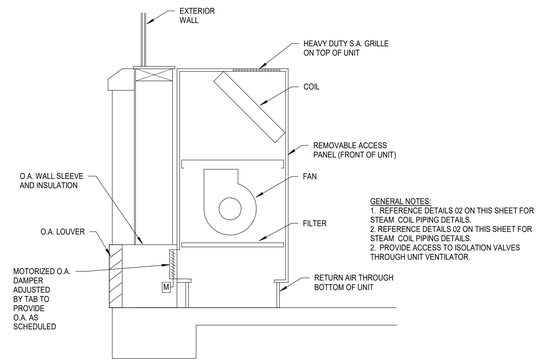




3 STEAM BRANCH LINE DETAIL
SCALE: NOT TO SCALE



2 STEAM HEATING COIL DETAIL
SCALE: NOT TO SCALE



1 UNIT VENTILATOR DETAIL
SCALE: NOT TO SCALE

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1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
(972) 233-0400 Alliancearchi.com

STATE OF TEXAS
JAMES T. BARRON
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11/16/2025

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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

DALLAS INDEPENDENT SCHOOL DISTRICT
McKISSACK McKISSACK

Blair Elementary School
7720 Gaylen Dr. Dallas, TX 75228

MECHANICAL DETAILS

DRAWING RECORD

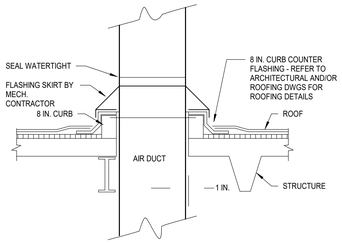
DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

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PROJECT NO.: 2022200

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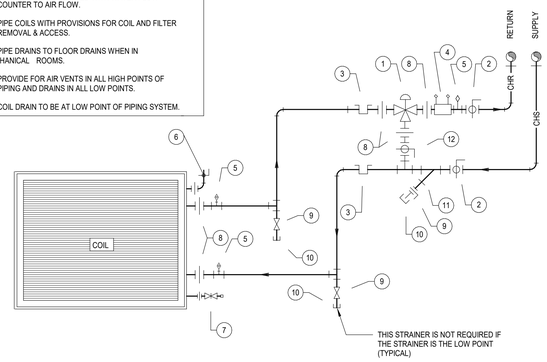
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3 DUCT ROOF PENETRATION DETAIL
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GENERAL NOTES:

1. REFER TO PLANS FOR LOCATIONS OF 3-WAY VALVES.
2. ALL COILS SHALL BE PIPED WITH WATER FLOW COUNTER TO AIR FLOW.
3. PIPE COILS WITH PROVISIONS FOR COIL AND FILTER REMOVAL & ACCESS.
4. PIPE DRAINS TO FLOOR DRAINS WHEN IN MECHANICAL ROOMS.
5. PROVIDE FOR AIR VENTS IN ALL HIGH POINTS OF PIPING AND DRAINS IN ALL LOW POINTS.
6. COIL DRAIN TO BE AT LOW POINT OF PIPING SYSTEM.



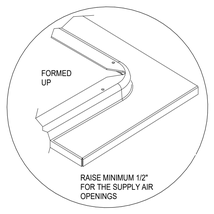
DETAIL NOTES BY SYMBOL:

1	AUTOMATIC 3-WAY WATER CONTROL MIXING VALVE
2	ISOLATION VALVE
3	THERMOMETER WELL
4	AUTOMATIC FLOW CONTROL VALVE
5	PETE'S PLUG
6	MANUAL AIR VENT [NEEDLE VALVE W/PLUG (CAP)]
7	3/4" DRAIN VALVE W/HOSE ADAPTOR & CAP
8	UNION
9	BALL VALVE WITH HOSE ADAPTOR & CAP
10	REMOVABLE CAP
11	"Y" STRAINER
12	ISOLATION VALVE W/MEMORY STOP (BALANCE)

2 CHILLED WATER COIL WITH 3 WAY VALVE - AHU
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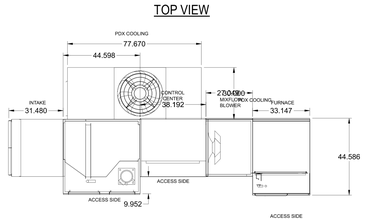
CLEARANCES

LOCATION	UNIT SIZE
	7.5 TON
OUTSIDE AIR (BACK)	50
CONTROLS SIDE (FRONT)	50
LEFT SIDE	50
RIGHT SIDE	50
TOP	UNOBSTRUCTED

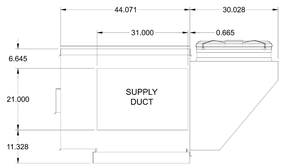


DETAIL C

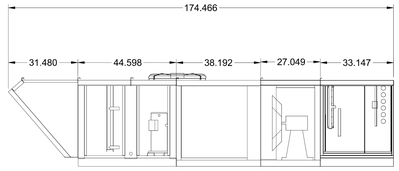
TOP VIEW



FRONT VIEW



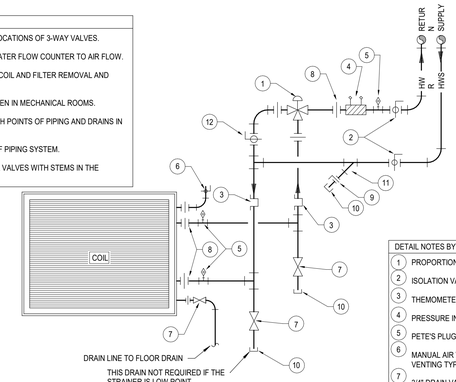
RIGHT SIDE VIEW



4 MAKE-UP AIR UNIT - KITCHEN CULINARY
SCALE: NOT TO SCALE

GENERAL NOTES:

1. REFER TO PLUMBING PLANS FOR LOCATIONS OF 3-WAY VALVES.
2. ALL COILS SHALL BE PIPED WITH WATER FLOW COUNTER TO AIR FLOW.
3. PIPE COILS WITH PROVISIONS FOR COIL AND FILTER REMOVAL AND ACCESS.
4. PIPE DRAINS TO FLOOR DRAINS WHEN IN MECHANICAL ROOMS.
5. PROVIDE FOR AIR VENTS IN ALL HIGH POINTS OF PIPING AND DRAINS IN ALL LOW POINTS.
6. COIL DRAIN TO BE AT LOW POINT OF PIPING SYSTEM.
7. PIPE CONTROL VALVES AND OTHER VALVES WITH STEMS IN THE VERTICAL AND POINT UP.



DETAIL NOTES BY SYMBOL:

1	PROPORTIONAL 3-WAY WATER CONTROL VALVE
2	ISOLATION VALVE
3	THEMOMETER WELL
4	PRESSURE INDEPENDENT FLOW CONTROL VALVE
5	PETE'S PLUG
6	MANUAL AIR VENT [NEEDLE VALVE W/ PLUG (CAP)] (IF COIL IS NON-AUTO VENTING TYPE)
7	3/4" DRAIN VALVE W/HOSE ADAPTER AND CAP (IF COIL IS NON-AUTO DRAIN TYPE
8	UNION
9	BALL VALVE WITH HOSE ADAPTER AND CAP
10	REMOVABLE CAP
11	"Y" STRAINER
12	ISOLATION VALVE W/MEMORY STOP (BALANCE)

1 HEATING WATER COIL WITH 3 WAY VALVE - AHU/FCU
SCALE: NOT TO SCALE

ALLIANCE ARCHITECTS
1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
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MECHANICAL DETAILS

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PACKAGED ROOFTOP UNIT SCHEDULE (DX, GAS HEAT)

TAG	NUMBER	SERVES	FAN CFM	MIN. OA CFM	SUPPLY FAN		COOLING COIL								HEATING COIL (GAS)				FILTER		ELECTRICAL DATA						DESIGN BASIS		
							EAT (°F)		LAT (°F)		CAPACITY (MBH)		CONDENSER EAT (°F)		HEATING CAPACITY (MBH)		TEMPERATURE RISE (°F)	HEATING STAGES							DIMENSIONS, L x W x H (FEET)	WEIGHT (LBS)			
					ESP (IN. W.G.)	FAN HP	DB	WB	DB	WB	TOTAL	SENSIBLE		REFRIGERANT	SEER 2	INPUT	OUTPUT			TYPE	EFFICIENCY	VOLTAGE	PHASE	HERTZ	MCA	MOCP			MANUFACTURER	MODEL	NOTES
RTU	1	LIBRARY 156	3060	460 CFM	1.50	5.00	76.3	62.1	51.5	50.2	91.6	55.0	105	R-454B	14.6	200.0	150.0	30.0	2	PLEATED	MERV 13	460	3	60	23	25	101-1/4 x 60 x 46-3/4"	841	TRANE	YHC102	1-4, 6-11, 13, 14, 15
RTU	2	KITCHEN 801	2725	320 CFM	1.50	1.50	76.0	69.0	56.2	55.5	116.4	65.5	105	R-454B	14.6	50.0	35.0	30.0	1	PLEATED	MERV 13	460	3	60	20	25	101-1/4 x 60 x 46-3/4"	841	TRANE	YHC120	1-12, 15
RTU	3	GYM 198	4000	600 CFM	1.50	3.00	79.0	69.0	53.5	52.9	156.4	128.8	105	R-454B	14	260.0	211.0	43.0	2	PLEATED	MERV 13	460	3	60	33	36	101-1/4 x 60 x 46-3/4"	841	TRANE	YHC120	1-4, 6-11, 13, 14, 15
RTU	4	GYM 198	4000	600 CFM	1.50	3.00	79.0	69.0	53.5	52.9	156.4	128.8	105	R-454B	14	260.0	211.0	43.0	2	PLEATED	MERV 13	460	3	60	33	36	101-1/4 x 60 x 46-3/4"	841	TRANE	YHC120	1-4, 6-11, 13, 14, 15
RTU	6	SECURE VESTIBULE 100	2000	210 CFM	1.50	1.50	75.5	63.7	57.0	55.9	44.8	38.9	105	R-454B	13.4	45.0	30.0	25.0	2	PLEATED	MERV 13	460	3	60	12	15	101-1/4 x 60 x 46-3/4"	841	TRANE	YHC060	1-4, 6-11, 13, 15
RTU	9	ELEV LOBBY 301	1750	200 CFM	1.00	1.50	78.4	62.8	53.0	52.6	48.2	40.8	105	R-454B	13.4	60.0	48.0	48.0	2	PLEATED	MERV 13	460	3	60	13	15	101-1/4 x 60 x 46-3/4"	841	TRANE	YHC072	1-4, 6-11, 13, 14, 15
RTU	10	AP 110	785	65 CFM	1.00	0.33	76.0	67.0	54.0	52.0	20.3	15.0	105	R-454B	13.4	60.0	48.0	46.0	1	PLEATED	MERV 13	230	1	60	19	30	48-3/4 x 43-1/8 x 35-1/2	358	TRANE	4YCC4024A1060	1-4, 6-11, 13, 14, 15
RTU	11	STOR 140	785	65 CFM	1.00	0.33	76.0	67.0	54.0	52.0	20.3	15.0	105	R-454B	13.4	60.0	48.0	46.0	1	PLEATED	MERV 13	230	1	60	19	30	48-3/4 x 43-1/8 x 35-1/2	358	TRANE	4YCC4024A1060	1-4, 6-11, 13, 14, 15
RTU	12	GYM OFFICE 117	785	65 CFM	1.00	0.33	76.0	67.0	54.0	52.0	20.3	15.0	105	R-454B	13.4	60.0	48.0	46.0	1	PLEATED	MERV 13	230	1	60	19	30	48-3/4 x 43-1/8 x 35-1/2	358	TRANE	4YCC4024A1060	1-4, 6-11, 13, 14, 15
RTU	13	AP 185	785	65 CFM	1.00	0.33	76.0	67.0	54.0	52.0	20.3	15.0	105	R-454B	13.4	60.0	48.0	46.0	1	PLEATED	MERV 13	230	1	60	19	30	48-3/4 x 43-1/8 x 35-1/2	358	TRANE	4YCC4024A1060	1-4, 6-11, 13, 14, 15

NOTES:
1. PROVIDE A SINGLE POINT OF ELECTRICAL CONNECTION.
2. SENSIBLE AND TOTAL CAPACITIES INCLUDE FAN HEAT.
3. EXTERNAL PRESSURE DROP INCLUDES DUCTWORK, DAMPERS AND FILTER DIRT LOADING.
4. UNIT DIMENSIONS DO NOT INCLUDE THE CURB HEIGHT.
5. PROVIDE DRY BULB ECONOMIZER WITH BAROMETRIC RELIEF.
6. PROVIDE GFI OUTLET, HAIL GUARDS, AND ELECTRICAL DISCONNECT.
7. PROVIDE DDC CONTROLS TO INTERFACE WITH BMS. SEE SPECIFICATIONS FOR CONTROL SEQUENCE. PROVIDE MECHANICAL TERMINAL STRIP FOR 3RD PARTY CONTROL.
8. REFER TO STRUCTURAL DRAINGS FOR ROOF CURB SUPPORTS. ROOF CURB SHALL BE HIGH ENOUGH TO PROVIDE A MINIMUM OF 16 IN. CLEARANCE FROM TOP OF ROOF TO BOTTOM OF EQUIPMENT.
9. FILTERS SHALL BE CHANGED OUT AT CONSTRUCTION, TAB AND SUBSTANTIAL COMPLETION.
10. PROVIDE STEEL HAIL GUARDS PAINTED TO MATCH CASING.
11. ROOFTOP UNIT SHALL BE HIGH EFFICIENCY SINGLE ZONE VARIABLE AIR VOLUME. UNIT SHALL HAVE FULLY VARIABLE SUPPLY FAN CONTROL. FAN SHALL BE CONTROLLED BY DISCHARGE AIR SENSOR.
12. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCTWORK OF ALL UNITS MORE THAN 2,000 CFM. PROVIDE SMOKE DETECTORS AND SMOKE DAMPERS IN BOTH SUPPLY AND RETURN DUCTWORK OF UNITS MORE THAN 15,000 CFM PER NFPA.
13. PROVIDE RTU WITH TWO STAGE COMPRESSOR.
14. ROOFTOP UNIT IS A PART OF ALTERNATE BID PACKAGE.

MAU SCHEDULE

TAG	DESIGNATION NUMBER	SERVES	FAN CFM	DESIGN OA CFM	SUPPLY FAN		COOLING COIL (DX)									HEATING COIL (GAS)				FILTER TYPE	FILTER EFFICIENCY (%)	ELECTRICAL DATA					DIMENSIONS, L x W x H (INCHES)	WEIGHT (LBS)	DESIGN BASIS		
							EAT (°F)		LAT (°F)		CAPACITY (MBH)		CONDENSER EAT (°F)			HEATING CAPACITY (MBH)		TEMPERATURE RISE (°F)	HEATING STAGES												
					ESP (IN. W.G.)	FAN HP	DB	WB	DB	WB	TOTAL	SENSIBLE		REFRIGERANT	EER	INPUT	OUTPUT					VOLTAGE	PHASE	HERTZ	MCA	MOCP			MANUFACTURER	MODEL	NOTES
MAU	1	KITCHEN HOOD	4000	4000	1.25	3	102.0	76.0	71.9	64.6	160.0	121.6	105	R-454B	12.5	150.0	120.0	76	2	MERV 13	95	208	3	60	29.8	45.0	174-1/2 x 74 x 39	1902	GREENHECK	DGX	ALL

NOTES:
1. PROVIDE A SINGLE POINT OF ELECTRICAL CONNECTION.
2. UNIT DIMENSIONS DO NOT INCLUDE THE CURB HEIGHT.
3. PROVIDE GFI OUTLET, HAIL GUARDS, AND ELECTRICAL DISCONNECT.
4. PROVIDE DDC CONTROLS TO INTERFACE WITH BMS. SEE SPECIFICATIONS FOR CONTROL SEQUENCE. PROVIDE MECHANICAL TERMINAL STRIP FOR 3RD PARTY CONTROL.
5. REFER TO STRUCTURAL DRAINGS FOR ROOF CURB SUPPORTS. ROOF CURB SHALL BE HIGH ENOUGH TO PROVIDE A MINIMUM OF 12 IN. CLEARANCE FROM TOP OF ROOF TO BOTTOM OF EQUIPMENT.
6. FILTERS SHALL BE CHANGED OUT AT CONSTRUCTION, TAB AND SUBSTANTIAL COMPLETION.
7. PROVIDE STEEL HAIL GUARDS PAINTED TO MATCH CASING.
1. 8. INTERLOCK WITH KITCHEN EXHAUST HOOD CONTROLS. MAKEUP AIR UNIT TO HAVE STANDALONE CONTROLS. KITCHEN HOOD EXHAUST FANS TO BE HARDWIRED INTERLOCKED WITH ASSOCIATED MAKEUP AIR UNIT. MAKEUP AIR UNIT TO BE MONITORED BY BMS. PROVIDE CONTROL POINT (AI) FOR FAN AMPS/STATUS FOR MAKEUP AIR UNIT. INTERLOCK MAKEUP AIR UNIT WITH ANSUL SYSTEM. ANSUL SYSTEM AND PUSH BUTTON BY KITCHEN CONSULTANT.

UNIT VENTILATOR SCHEDULE

TAG	DESIGNATION NUMBER	SERVES	SUPPLY AIR CFM	DESIGN OA CFM	SUPPLY FANS (2)		COOLING COIL (CHILLED WATER)										HEATING COIL (STEAM)						ELECTRICAL DATA					DIMENSIONS, L x W x H (INCHES)	WEIGHT	DESIGN BASIS	
							CAPACITY (MBH)				EAT (°F)			LAT (°F)							FILTER										
					ESP (IN. W.G.)	HP	TOTAL	SENSIBLE	EWT (°F)	LWT (°F)	DB	WB		DB	WB		MAX COIL FACE VELOCITY (FPM)	TOTAL CAPACITY (MBH)-STEAM	EAT (°F)	LAT (°F)	STEAM CAPACITY (LBS./HR)	STEAM PRESSURE TO COIL (PSI)	TYPE	VOLTAGE	PHASE	HERTZ	MCA	MOCP			MANUFACTURER	MODEL
UV	1	CLASSROOMS	1250	325	0.50	0.25	41.0	27.5	45	55	80.5	67.5		61.1	58.5		490	26	57.8	75		7.0	MERV 13	115	1	60	8.4	15.0	93 x 21-1/4 x 30	450	TRANE	VUVE125

NOTES:
1. PROVIDE DDC CONTROLS TO INTERFACE WITH BMS. SEE SPECIFICATIONS FOR CONTROL SEQUENCE. PROVIDE MECHANICAL TERMINAL STRIP FOR 3RD PARTY CONTROL.
2. FILTERS SHALL BE CHANGED OUT AT CONSTRUCTION, TAB AND SUBSTANTIAL COMPLETION.
3. PROVIDE UNIT VENTILATOR WITH TEMPERATURE SENSOR IN ROOM.
4. PROVIDE UNIT VENTILATOR WITH FALSEBACK FOR CONNECTION TO OA OPENINGS.
5. PROVIDE OUTSIDE AIR PLENUM SHEET METAL COVER BY MANUFACTURER.

AHU SCHEDULE

TAG	DESIGNATION NUMBER	SERVES	SUPPLY AIR CFM	DESIGN OA CFM	SUPPLY FAN		COOLING COIL (CHILLED WATER)									HEATING COIL (STEAM)			FILTER		ELECTRICAL DATA					DIMENSIONS, L x W x H (INCHES)	WEIGHT	DESIGN BASIS		
							EAT (°F)		LAT (°F)		CAPACITY (MBH)																				
					ESP (IN. W.G.)	FAN BHP	DB	WB	DB	WB	TOTAL	SENSIBLE	COOLING COIL MAX FACE VELOCITY	EWT (°F)	LWT (°F)	DB EAT (°F)	DB LAT (°F)	CAPACITY (MBH)	TYPE	VOLTAGE	PHASE	HERTZ	MCA	MOCP			MANUFACTURER	MODEL	NOTES
AHU	1	CAFETERIA 800	4400	1970	1.50	4.72	88.8	69.2	56.4	55.2	223.3	178.5	490 F/PM	45	55	43.7	75.8	174.07	PLEATED	460	3	60	10.3	15.0	177 x 61.5 x 44	2821	TRANE	CSAA010	1-12, 14
AHU	2	CLASSROOM VAVS	5400	2450	2.00	5.97	89.0	68.8	55.2	54.4	244.0	201.5	490 FPM	45	55	-	-	-	PLEATED	460	3	60	13.8	20.0	165 x 61.5 x 37.8	2345	TRANE	CSAA010	1-13, 15, 16
AHU	3	AUDITORIUM 182	6420	3100	2.00	6.52	80.8	69.5	57.9	56.4	271.4	218.6	490 FPM	45	55	43.7	78.45	241.99	PLEATED	460	3	60	13.8	20.0	125 x 72 x 41.5	1773	TRANE	CSAA014	1-13, 15

NOTES:
1. T.S.P. INCLUDES ALLOWANCE FOR MIDLIFE DIRTY FILTERS.
2. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCTWORK OF ALL UNITS MORE THAN 2,000 CFM. PROVIDE SMOKE DETECTORS AND DAMPERS IN BOTH SUPPLY AND RETURN DUCTWORK OF UNITS MORE THAN 15,000 CFM PER NFPA.
3. PROVIDE DRY BULB ECONOMIZER.
4. PROVIDE MOTORIZED O/A & R/A DAMPERS.
5. PROVIDE (3) SETS OF FILTERS. FILTERS TO BE CHANGED AT CONSTRUCTION, TEST AND BALANCE, AND AT SUBSTANTIAL COMPLETION.
6. PROVIDE 4", HIGH EFFICIENCY MERV 13 FINAL FILTER..
7. PROVIDE ALL NEW DDC CONTROLS PER DISD REQUIREMENTS. FULLY INTEGRATE ALL CONTROLS WITH NEW JACE CONTROLLER. SEE SPECIFICATIONS FOR CONTROL SEQUENCE.
8. PROVIDE WITH SINGLE POINT POWER CONNECTION.
9. PROVIDE FACTORY INSTALLED VFDs WITH INTEGRAL DISCONNECT SWITCH AND BYPASS FUNCTION.
10. PROVIDE ROOF CURB. REFER TO STRUCTURAL DRAWINGS FOR ROOF CURB SUPPORTS. CURB SHALL BE HIGH ENOUGH TO PROVIDE A MINIMUM OF 12 IN. CLEAR FROM TOP OF ROOF TO BOTTOM OF EQUIPMENT
11. PROVIDE WEATHERPROOF/GFI OUTLET.
12. PROVIDE THREE WAY CONTROL VALVES FOR CHILLED WATER COILS.
13. PROVIDE AHU-2 WITH 8.0 KW ELECTRIC PREHEAT COIL.
14. PROVIDE AHU-1 WITH PIPING CABINET TO HOUSE CHILLED WATER AND STEAM HEAT PIPING.
15. PROVIDE WITH NEW HOUSEKEEPING PAD. HOUSEKEEPING PAD SHALL BE A MINUM 6" IN HEIGHT AND 3" LARGER THAN EQUIPMENT ON ALL SIDES.
16. UNIT SHALL BE VERTICAL TYPE WITH TOP DISCHARGE AND SIDE RETURN.

AIR DEVICE SCHEDULE

TAG	TYPE	MAX RADIATED NC	DESIGN BASIS		DESCRIPTION	NOTES
			MANUFACTURER	MODEL		
A	SUPPLY AIR DIFFUSER	25	PRICE	SCD	24"x24" LOUVERED SUPPLY AIR DIFFUSER. COLOR TO BE APPROVED BY ARCHITECT. PROVIDE SECTORIZING BAFFLES WHERE ALTERNATE THROW DIRECTIONS ARE REQUIRED.	
B	RETURN AIR GRILLE	25	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.	
C	SUPPLY AIR DIFFUSER	25	PRICE	SCD	12"x12" LOUVERED SUPPLY AIR DIFFUSER. COLOR TO BE APPROVED BY ARCHITECT. PROVIDE SECTORIZING BAFFLES WHERE ALTERNATE THROW DIRECTIONS ARE REQUIRED.	
D	RETURN AIR GRILLE	25	PRICE	PDDR	12"x12" PERFORATED FACE CEILING RETRN AIR GRILLE; ALL STEEL; NECK SIZE AS INDICATED ON DRAWINGS; BAKED ENAMEL FINISH; COLOR TO BE APPROVED BY ARCHITECT.	
E	SIDEWALL SUPPLY AIR DIFFUSER	25	PRICE	520	LOUVERD SUPPLY DIFFUSER, DOUBLE DEFLECTION WITH 3/4" BLADE SPACING. ADJUSTABLE BLADES. SURFACE MOUNTED. NECK SIZE AS INDICATED ON PLANS. BAKED ENAMEL FINISH, STEEL CONSTRUCTION. COLOR TO BE APPROVED BY ARCHITECT.	
G	LIENAR SLOT SUPPLY DIFFUSER	25	PRICE	SDS	4" LINEAR SLOT SUPPLY DIFFUSER WITH (2) 1" SLOTS AND PLENUM. COLOR TO BE APPROVED BY ARCHITECT.	
H	SUPPLY AIR DIFFUSER	25	PRICE	RCD	ROUND CONE, LOUVERED SUPPLY AIR DIFFUSER. NECK SIZE AS INDICATED ON PLAN. COLOR TO BE APPROVED BY ARCHITECT. PROVIDE SECTORIZING BAFFLES WHERE ALTERNATE THROW DIRECTIONS ARE REQUIRED.	

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. SUPPLY, RETURN AND EXHAUST GRILLES FOR LOCKER ROOMS, SHOWER AREAS AND TOILETS SHALL BE ALUMINUM.

FAN SCHEDULE

TAG	DESIGNATION NUMBER	SERVES	LOCATION	CFM	ESP (IN. W.G.)	DRIVE TYPE	HP	CONTROL	MOTOR			DESIGN BASIS			NOTES
									V	PH	Hz	MANUFACTURER	MODEL	WEIGHT (LBS)	
KEF	1	KITCHEN HOOD	ROOF	5,000	1.00	BELT	2	KITCHEN HOOD	208	3	60	GREENHECK	CUBE-220	175	1-4,8-9,13
EF	105	PRINC. RR	CEILING	70	0.45	DIRECT	0.1	LIGHT SWITCH	120	1	60	GREENHECK	SP-110-VG	12	5,6
EF	107	JAN 107	CEILING	70	0.45	DIRECT	0.1	CONSTANT	120	1	60	GREENHECK	SP-110-VG	12	5,6
EF	143	LOCKER 143	CEILING	70	0.45	DIRECT	0.1	LIGHT SWITCH	120	1	60	GREENHECK	SP-110-VG	12	5,6
EF	177	RR 164	CEILING	70	0.45	DIRECT	0.1	LIGHT SWITCH	120	1	60	GREENHECK	SP-110-VG	12	5,6

NOTES:
1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH MOTORIZED DAMPER.
3. PROVIDE WITH ROOF CURB. ROOF CURB SHALL BE HIGH ENOUGH TO PROVIDE A MINIMUM OF 12 IN. CLEAR FROM TOP OF ROOF TO BOTTOM OF EQUIPMENT.
4. INTERLOCK FAN WITH EXHAUST HOOD.
5. INTERLOCK FAN WITH LIGHT SWITCH.
6. PROVIDE WITH FAN SPEED CONTROLLER.
7. FAN TO RUN CONTINUOUSLY. PROVIDE ON/OFF SWITCH IN ROOM BEING EXHAUSTED.
8. PROVIDE WITH HINGED SUB BASE, VENTED EXTENSION, BELT TENSIONER, SPARE BELT SET, AND GREASE TROUGH.
9. GREASE EXHAUST FAN TO HAVE STANDALONE KITCHEN SYSTEM CONTROLS. KITCHEN HOOD EXHAUST FAN TO BE HARDWIRED INTERLOCKED WITH ASSOCIATED MAKEUP AIR UNIT. EXHAUST FAN TO BE MONITORED BY FMCS. PROVIDE CONTROL POINT (AI) FOR FAN AMPS/STATUS FOR EXHAUST FAN. INTERLOCK GREASE EXHAUST FAN WITH ANSUL SYSTEM. ANSUL SYSTEM AND PUSH BUTTON BY KITCHEN CONSULTANT.
10. RELIEF FAN TO MONITOR BUILDING PRESSURIZATION. FAN SHALL BE CONTROLLED TO MAINTAIN A POSITIVE PRESSURE SETPOINT OF 0.05 IN. W.G. (ADJUSTABLE) ABOVE ATMOSTPHERIC PRESSURE.
11. PROVIDE WITH MANUFACTURER'S VFD.
12. INTERLOCK WITH AHU-2.
13. PROVIDE FAN WITH DRAIN AT LOW POINT.

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

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BH&
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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7720 Gayglen Dr. Dallas, TX 75228

MECHANICAL EQUIPMENT SCHEDULES

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PUMP SCHEDULE																		
										ELECTRICAL DATA					DESIGN BASIS			
TAG	DESIGNATION NUMBER	SERVES	TYPE	GPM	HEAD (FT)	LOCATION	EFFICIENCY	RPM	WEIGHT	MOTOR HP	V	PH	HZ	DRIVE TYPE	MANUFACTURER	MODEL	NOTES	
CP	1	SB-1	CSP	15	60	BOILER ROOM	85	17500	200	5	208	3	60	DIRECT	BELL & GOSSETT	E-1510 3GB		
CP	2	SB-1	CSP	15	60	BOILER ROOM	85	17500	200	5	208	3	60	DIRECT	BELL & GOSSETT	E-1510 3GB		

STEAM PIPE CAPACITY @ 5 PSI	
PIPE SIZE (INCHES)	MASS FLOW (LB/HR)	PIPE CAPACITY (MBH)
1/2"	6	5.8
3/4"	15	14.4
1"	31	29.8
1-1/4"	68	65.3
1-1/2"	100	96.0
2"	210	202
2-1/2"	350	336
3"	650	624
3-1/2"	970	931
4"	1370	1233
5"	1930	1852
6"*	4200	4000

T.D.L. = 375 FT
ΔP = 0.267 PSI/100 FT
h_{FVAP} = 960 BTU/LB
V_{MAX} = 6000 FT/SEC
* - VELOCITY MAY EXCEED 6000 FT/SEC

CONDENSATE RETURN CAPACITY @ 1/4 PSI/100 FT	
PIPE SIZE (INCHES)	MASS FLOW (LB/HR)
1/2"	520
3/4"	1120
1"	2150
1-1/4"	4500

STEAM BOILER SCHEDULE													
TAG	NUMBER	TYPE	OPERATING TEMPERATURE (°F)	HEATING OUTPUT (MBH)	HEATING INPUT (MBH)	FUEL	MINIMUM EFFICIENCY (%)	VOLTAGE	PHASE	HERTZ	Manufacturer	Model	NOTES
SB	1	STEAM BOILER	230 °F	4245	5201	NATURAL GAS	86.6	208 V	3	60 Hz	BURNHAM	C-125	-

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

STATE OF TEXAS
JAMES T. BARRON
83873
LICENSED
ARCHITECT

11/16/2025

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McKISSACK
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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

Blair Elementary School

7720 Gayglen Dr. Dallas, TX 75228

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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
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
- OPPOSED BLADE DAMPER WITH END SWITCH - PNEUMATIC ACTUATOR
- 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
- ELECTRIC DUCT HEATER
- DH — GAS FIRED DUCT HEATER
- GFH — 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

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

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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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7720 Gayglen Dr. Dallas, TX 75228

MECHANICAL CONTROLS COVER SHEET

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CONTROLS SUMMARY

SCHOOL:	BLAIR ELEMENTARY					
EQUIPMENT	DESIGNATION	LOCATION	SERVES	E/R/N*	BASE BID	NOTES
AIR HANDLING UNIT	AHU-1	STORAGE 157	CLASSROOMS	N	YES	
AIR HANDLING UNIT	AHU-2	ROOF	CAFETERIA	N	YES	
AIR HANDLING UNIT	AHU-3	MEZZANINE	AUDITORIUM	N	YES	
ROOF TOP UNIT	RTU-1	ROOF	LIBRARY 156	N	YES	
ROOF TOP UNIT	RTU-2	ROOF	KITCHEN 801	N	YES	
ROOF TOP UNIT	RTU-3	ROOF	GYM 198	N	YES	
ROOF TOP UNIT	RTU-4	ROOF	GYM 198	N	YES	
ROOF TOP UNIT	RTU-5	ROOF	COMPUTER LAB 212	N	YES	
ROOF TOP UNIT	RTU-6	ROOF	SECURE VESTIBULE 100	N	YES	
ROOF TOP UNIT	RTU-7	ROOF	FIRST FLOOR	N	YES	
ROOF TOP UNIT	RTU-8	ROOF	ELEC 109	N	YES	
ROOF TOP UNIT	RTU-9	ROOF	ELEV LOBBY 301	N	YES	
ROOF TOP UNIT	RTU-10	ROOF	AP 110	N	YES	
ROOF TOP UNIT	RTU-11	ROOF	STOR 140	N	YES	
ROOF TOP UNIT	RTU-12	ROOF	GYM OFFICE 117	N	YES	
ROOF TOP UNIT	RTU-13	ROOF	AP 185	N	YES	
MAKEUP AIR UNIT	MAU-1	ROOF	KITCHEN HOOD	N	YES	
KITCHEN EXHAUST FAN	KEF-1	ROOF	KITCHEN	N	YES	
STEAM BOILER	SB-1	BOILER ROOM	STEAM SYSTEM	N	YES	
STEAM CONDENSATE PUMP	CP-1	BOILER ROOM	STEAM SYSTEM	N	YES	
UNIT VENTILATOR	UV-1	CLASSROOMS	CLASROOMS	N	YES	UNIT COUNT: 26
AIR COOLED CHILLER	CH-1	CHILLER YARD	CHILLED WATER	R	YES	
CHILLED WATER PUMP	CHP-1	BOILER ROOM	CHILLED WATER	R	YES	
FAN POWERED BOX	(EX.) FPB	AREA B CORRIDOR CEILING	CLASSROOMS	R	YES	UNIT COUNT: 8

*** 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.**

1.11 CONSTANT AIR VOLUME AIR HANDLING UNIT (CHILLED WATER/ ELECTRIC PREHEAT):

A. General: The unit is to have supply fan, heating coil, chilled water coil and outside air damper. The Control System Contractor provides a dedicated stand-alone DDC controller for each unit.

B. System Off - When the system is off:
1. All the fans shall be off.
2. The heating coil is disabled.
3. The cooling coil valve shall be 30%.
4. The outside air damper shall be closed.
5. All control loops shall be disabled.

C. Initiation of System Start-Up - System start-up shall be initiated:
1. By an operator manually entered command at the EMCSEMCS.
2. Automatically by the EMCS based on optimal start, night setup, time schedule, restart following a fire alarm, or restart following a power failure.

D. System Operation - When system start-up has been initiated, the following sequences shall be implemented:
1. The supply air fan shall start.
2. The heating coil shall be controlled to maintain the heating space temperature setpoint.
3. The cooling coil valve shall be controlled to maintain the cooling space temperature setpoint.

E. Return/Exhaust Fan Operation: The unit shall always maintain space pressure setpoint in all modes of operating with the fan on. When the fan is on the unit shall read and compare the space pressure input to the space pressure setpoint and adjust the return/exhaust fan speed accordingly. The return/exhaust fan shall be controlled to maintain a positive building pressure setpoint of .08" wg (adjustable) above atmospheric pressure.

F. Outside Air Damper Control - During all occupied modes the outside air damper shall be controlled to the effective minimum adjustable position, unless the economizing mode is active. The outside air damper shall be closed during the unoccupied mode, morning warm-up and pre-cool modes or when the outside air temperature falls below a Low Ambient Damper Lockout Setpoint [38°F], operator adjustable. Control outside air supply rate using a carbon-dioxide based demand ventilation control strategy. The outside air and return air dampers shall modulate to provide ventilation CFM to maintain CO2 levels in the spaces. The outside air damper shall be initially set at the minimum position. The dampers shall incrementally increase/decrease to maintain CO2 levels. The EMCS shall monitor CO2 levels in the return air duct. Upon CO2 value rising above 1100 ppm, the outside air damper shall modulate open from the normal position to maintain the CO2 level at 1100 ppm. Once CO2 values fall below set point (1100 ppm), the outside air CFM shall return to its minimum position.

G. Economizer Control - The unit shall allow economizing during all occupied and unoccupied modes. The modulating outdoor air damper shall provide the first source of cooling. The unit shall enable economizer mode if the outside air temperature is between 55°F-65°F, operator configurable. If economizer is initiated, the unit shall modulate the outside air damper between the active minimum position and fully open and shall modulate the mixed air damper between fully open and fully closed to maintain the discharge air temperature at the active discharge air temperature setpoint. If a hardwired outdoor air temperature sensor or a communicated value is not present, economizing shall not be allowed.
1. Provide controls in compliance with current accepted version of IECC.
   a. Provide Outside air, supply air, and return air temperature sensors.
   b. Unit shall report economizer faults to Dallas ISD personnel:
      1) Air temperature.
      2) Not economizing when the unit should be economizing.
      3) Economizing when the unit should not be economizing.
      4) Damper not modulating.
      5) Excess outdoor air.

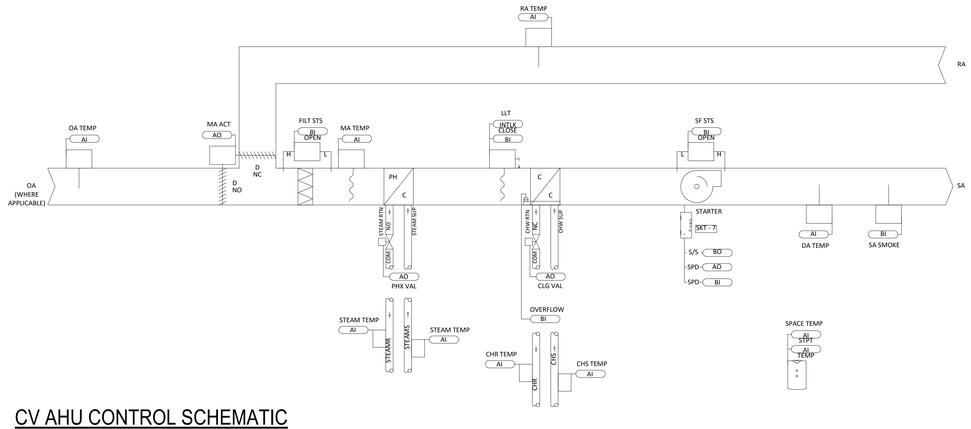
H. Exhaust Air Control - The unit shall coordinate the exhaust function with the return fan and mixed air damper. The exhaust output shall be energized whenever the supply fan is on and the outdoor air damper open beyond the exhaust fan/damper enable setpoint [30%], operator configurable. The exhaust output shall remain energized until the outdoor air damper closes to below 10% (adjustable) of the exhaust damper enable setpoint and or the supply fan is turned off.

I. Setpoints - The system shall have the following setpoints:
1. Space temperature setpoint shall be 70 Deg. F. for heating and 74 Deg. F. for cooling.
2. Freezestat setpoint shall be set at the device for 35 Deg. F.

J. Initiation of System Shutdown - System shutdown shall be initiated:
1. By operator entered manual command.
2. Automatically by the EMCS base on time schedule or optimal stop.
3. By the fire alarm system. The EMCS shall automatically set the control relay to the off state.

K. Control Points:

Description	Type
Fan Amps/Status	AI
Filter Alarm	DI
Mixed Air Temperature	AI
Return Air Temperature	AI
Return Air Humidity	AI
Return Air CO2	AI
Preheat Supply Air Temperature (PreCool)	AI
Unit Discharge Air temperature	AI
Static Pressure Sensor	AI
Freeze Status Alarm	DI
High Static Alarm	DI
Fan Start/Stop Command	DO
Chilled Water Valve	AO
Heating Coil	AO
Outside Air Damper	AO
Fan Amps/Status	AI



1 CV AHU CONTROL SCHEMATIC
SCALE: NOT TO SCALE

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ALLIANCE ARCHITECTS
1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
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LICENSED PROFESSIONAL ENGINEER
JAMES T. BARRON
83873
STATE OF TEXAS

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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
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MECHANICAL CONTROL DIAGRAMS

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1.13 VARIABLE AIR VOLUME AIR HANDLING UNIT (CHILLED WATER/ STEAM PREHEAT):

A. General: The unit is to have supply fan, heating coil, chilled water coil and outside air damper. The Control System Contractor provides a dedicated stand-alone DDC controller for each unit.

B. Unit Enabling/Disabling:
1. The EMCS optimum start/start schedule defines that occupied/unoccupied mode of operation.
2. During unoccupied times, a minimum number of associated VAV boxes, 40% (adjustable), to request the AHU before AHU operates.

C. Fan Control:
1. The unit operates when the associated VAV boxes it serves are in occupied mode and operational.
2. The supply fan VFD is controlled by a static pressure transducer 2/3rds the way down the longest supply duct run. If the static pressure is below setpoint, the supply fan speed increases. If the static pressure is above setpoint, the supply fan speed decreases.
3. Provide a static pressure reset algorithm with minimum and maximum limits of .5 inches to 1.2 inches (adjustable). VAV boxes to be polled for damper position. Static pressure slowly decreases until 25% (adjustable) of the VAV box damper positions are at least 90% open.

D. 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 or cools as required to satisfy the occupied heating or cooling setpoints of 60% (adjustable) of the VAV boxes (initially 70°F heating, 74°F cooling) as sensed by a space temperature sensor.
   c. During warm-up, the supply air discharges temperature of 90°F (adjustable). During cool-down, the supply air temperature is 55°F (adjustable).
   d. Once the occupied setpoint temperature threshold has been reached, the EMCS switches the unit to the occupied mode.
2. Occupied Mode:
   a. Preheat Coil: The preheat valve modulates to maintain precool discharge air temperature of 50°F (adjustable). Preheat coil disables when ambient outside air temperature is above 55°F (adjustable).
   b. Cooling Coil: The chilled water valve modulates to initially maintain unit discharge supply air temperature of 55°F (adjustable). Provide a linear supply air temperature reset algorithm between:
      1) 55°F (adjustable) supply air temperature supply when outside air temperature is at or above 80°F (adjustable).
      2) 60°F(adjustable) supply air temperature supply when outside air temperature is at or below 50°F (adjustable).
3. Unoccupied Mode: The EMCS enables the unit as required to maintain the unoccupied heating and cooling setpoints (initially 55°F heating and 85°F cooling) as sensed by the VAV box space temperature sensors. A minimum number of associated VAV boxes, 40% (adjustable), to request the AHU before AHU operates.

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

F. Dry Bulb Economizer Mode (Utilize when economizer exemption cannot be taken): In occupied or unoccupied mode, outside air temperature is 60°F (adjustable) or below and there is a call for cooling, the unit to be in economizer mode. Outside air damper opens 100% and provides free cooling. If cold deck setpoint is not meet within 10 min (adjustable), mechanical cooling to be enabled.

G. Dehumidification Mode:
1. Dehumidification mode activates when the return air relative humidity is above 60% (adjustable).
2. Dehumidification mode temporarily disables the cooling supply air temperature reset and maintains constant discharge air temperature at 53°F (adjustable).
3. Dehumidification disables when return air relative humidity is 2% (adjustable) below humidity setpoint.

H. Safeties:
1. Freeze Protection:
   a. When the outside air (OA) temperature drops below 36°F (adjustable), chilled water and hot water valves open to 20% if not already open.
   b. When the OA temperature rises 2°F above freeze protection setpoint for one (1) hour, the reverse occurs.
2. Freeze Stat: Provide a temperature low limit switch to disable the unit and close all dampers when it senses that the air temperature is below 36°F (adjustable)
3. Static Pressure Switch: Provide a high static pressure switch to disable the unit and close all dampers when pressure switch is activated.

I. Control Points:

Description	Type
Fan Amps/Status	AI
Filter Alarm	DI
Mixed Air Temperature	AI
Return Air Temperature	AI
Return Air Humidity	AI
Return Air CO2	AI
Preheat Supply Air Temperature (PreCool)	AI
Unit Discharge Air temperature	AI
Static Pressure Sensor	AI
Freeze Status Alarm	DI
High Static Alarm	DI
Fan Start/Stop Command	DO
Fan VFD Speed	AO
Chilled Water Valve	AO
Heating Valve	AO
Outside Air Damper	AO
Fan Amps/Status	AI

1.15 SINGLE ZONE DX RTU:

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

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

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

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

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

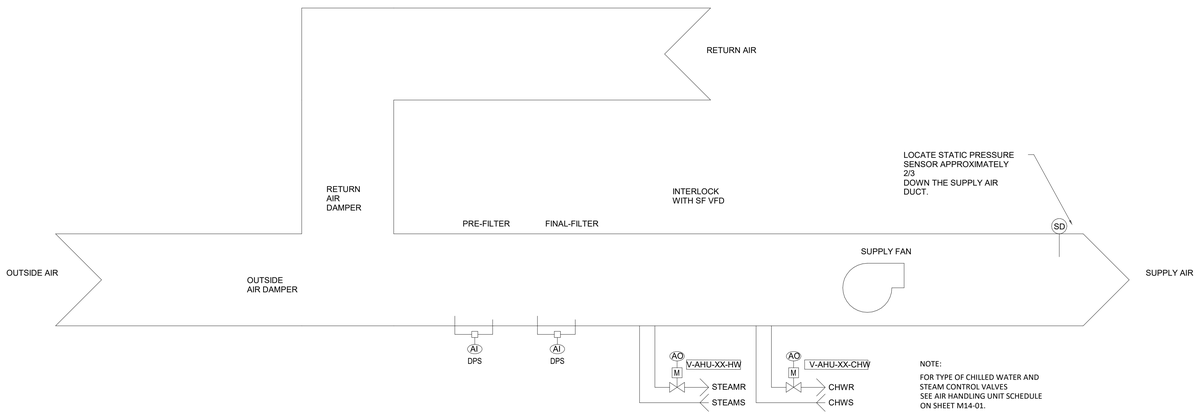
F. Occupied Mode:
1. Space set point to be user adjustable within ±2°F (adjustable).
2. In the occupied mode of operation, the unit supply fan cycles with a call for heating or cooling.
3. The unit heats and cools as required to maintain the occupied heating and cooling setpoints (initially 70°F heating,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

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

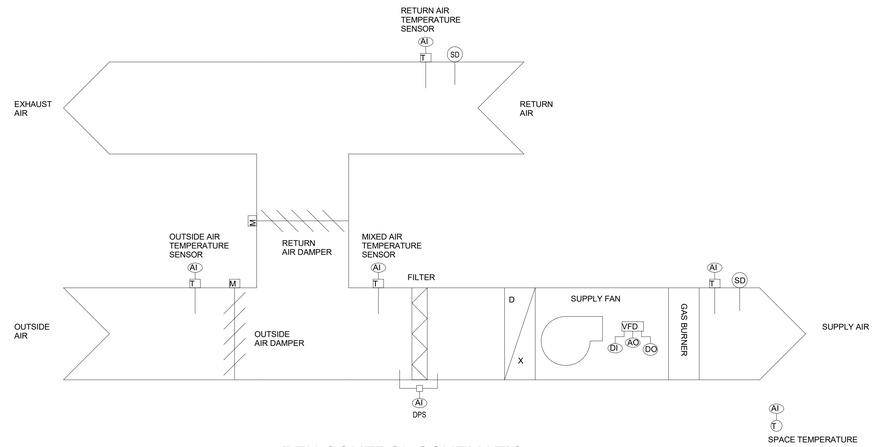
H. Dry Bulb Economizer Mode (Utilize when economizer exemption cannot be taken):
1. In occupied or unoccupied mode, when space temperature is above space setpoint, outside air temperature is 60°F (adjustable) or below and there is a call for cooling, the unit be in economizer mode. Outside air damper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

I. Control Points:

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



2 VAV AHU CONTROL SCHEMATIC
SCALE: NOT TO SCALE



1 RTU CONTROL SCHEMATIC
SCALE: NOT TO SCALE

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

JAMES T. BARRON
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McKISSACK McKISSACK

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

Blair Elementary School

7720 Gaylen Dr. Dallas, TX 75228

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1.4 AMBIENT CONDITIONS:

A. General: The EMCS monitors the ambient outside conditions at the building. Sensors to be located outside the building for northern exposure.

B. Control Points:

Description	Type
Outside Temperature	AI
Outside Humidity	AI
Outside CO2	AI

1.5 RELIEF FANS:

A. General: The FMCS to measure building pressure. The relief fans are to operate to maintain a positive pressure setpoint of .05 inch In. W.C. (adjustable).

B. Control Points:

Description	Type
Building Pressure (Each Sensor)	AI
Fan Amps/Status (Each Fan)	AI
Fan Start/Stop Command (Each Fan)	DO
Fan VFD Speed (Each Fan)	AO

1.9 VARIABLE PRIMARY CHILLED WATER SYSTEM:

A. General: Provide chiller with motorized isolation valves. The pumping system to be variable primary type with (1) pump. The pump(s) to have a minimum flow condition equal to the minimum flow allowed by the chiller manufacturer. Provide a bypass line with an automated control valve to allow the minimum flow of chillers. Minimum flow to be specified by the chiller manufacturer.

B. Central Plant System Enabling/Disabling:
1. Define the occupied/unoccupied mode of operation by the EMCS optimum start/stop schedule.
2. The EMCS to enable the chilled water system based on an ambient temperature above 50° F (adjustable) and requests for cooling. The number of requests to be adjustable. The system enable to assign the lead/lag chillers and lead/lag pumps. Equipment to operate on a lead-lag and equal run time basis.
3. The chiller's slow stroking, motorized isolation valve (120 seconds) to open.
4. After a time delay allowing the motorized isolation valve to fully open, start the chilled water pump.
5. Once the chilled water pump has started and water flow has been proven, enable the chiller.

C. Chilled Water Temperature Control:
1. Control the chilled water setpoint via EMCS by sending a setpoint signal 42°F (adjustable) to each chiller control panel (UCP).
2. Provide a linear chilled water supply temperature reset algorithm between:
   a. 42°F (adjustable) chilled water supply when outside air temperature is at or above 70°F (adjustable).
   b. 46°F (adjustable) chilled water supply when outside air temperature is at or below 50°F (adjustable).

D. Chilled Water Pumping System:
1. Variable Primary Chilled Pumping System:
   a. One (1) variable primary pump to be started when system is enabled.
   b. The speed of the pump not to drop below minimum output to maintain minimum flow through enabled chillers.
   c. Control the pump VFD by differential pressure transducers across the supply and return piping at locations shown on the drawings or as directed by the Engineer. If the pressure is below setpoint, the pump speed increases. If the differential pressure is above setpoint, the pump speed decreases.
   d. The differential pressure setpoint for the pumping system to be reset based on maximum chilled water valve position. If the maximum valve position is above 90% (adjustable), then the differential set point to be set to maximum pressure as determined by the Temperature Control System Contractor. If the maximum valve position is below 50% (adjustable), then the differential pressure setpoint to be set to minimum pressure as determined by the Temperature Control System Contractor. If the maximum valve position is between 90%-50% (adjustable), then the differential pressure setpoint to modulate linearly between the minimum and maximum pressure setpoints.

E. Chilled Water Bypass:
1. Minimum Flow:
   a. Initially close the chilled water bypass valve and open as necessary to provide minimum flow to enabled chillers.
   b. Bypass valve monitors chiller flow meter to ensure minimum flow is met by modulating bypass control valve open as necessary.
   c. As a failsafe backup to the flow meter, bypass valve also monitors the chilled water pressure drop across each chiller evaporator when a chiller is enabled. As the sensed differential pressure falls below the pressure drop associated with the chiller recommended flow rate, as provided by the chiller manufacturer, modulate the bypass control valve to maintain minimum flow. Initial default chiller evaporator pressure drop of 3 psi (adjustable).

F. Safeties:
1. Freeze Protection:
   a. When the outside air (OA) temperature drops below 36°F (adjustable), a primary pump to be started and all associated isolation valves opened. All building chilled water valves open to 20%.
   b. When the OA temperature rises 2°F above freeze protection setpoint for one (1) hour, the reverse occurs.

G. Control Points:

Description	Type
Outside Air Temperature	AI
Building Common Chilled Water Supply Temperature	AI
Building Common Chilled Water Return Temperature	AI
Chiller Supply Water Temperature (Each Chiller)	AI
Chiller Return Water Temperature (Each Chiller)	AI
Chilled Water Bypass Temperature	AI
Chiller Evaporator Differential Pressure (Each Chiller)	AI
Building Flow	AI
Chiller Flow	AI
Makeup Water Flow	AI
Building Chilled Water Differential Pressure (Each Sensor)	AI
Chiller Amps/Status (Each Chiller)	AI
Chiller Alarm (Each Chiller)	AI
Pump Amps/Status (Each Pump)	AI
Motorized Valve Feedback Position (Each Valve)	AI
Chiller Start/Stop Command (Each Chiller)	DO
Pump Start/Stop Command (Each Pump)	DO
Pump VFD Speed (Each Pump)	AO
Chiller Supply Setpoint (Each Chiller)	AO
Chiller Capacity Limit (Each Chiller)	AO
Chiller Isolation Valve (Each Chiller)	AO
Chilled Water Bypass Valve	AO

1.12 CONSTANT AIR VOLUME AIR HANDLING UNIT (CHILLED WATER/ HOT WATER PREHEAT):

A. General: The unit is to have supply fan, heating coil, chilled water coil and outside air damper. The Control System Contractor provides a dedicated stand-alone DDC controller for each unit.

B. System Off - When the system is off:
1. All the fans shall be off.
2. The heating coil valve shall be 30%.
3. The cooling coil valve shall be 30%.
4. The outside air damper shall be closed.
5. All control loops shall be disabled.

C. Initiation of System Start-Up - System start-up shall be initiated:
1. By an operator manually entered command at the EMCSEMCS.
2. Automatically by the EMCS based on optimal start, night setup, time schedule, restart following a fire alarm, or restart following a power failure.

D. System Operation - When system start-up has been initiated, the following sequences shall be implemented:
1. The supply air fan shall start.
2. The heating coil shall be controlled to maintain the heating space temperature setpoint.
3. The cooling coil valve shall be controlled to maintain the cooling space temperature setpoint.

E. Return/Exhaust Fan Operation: The unit shall always maintain space pressure setpoint in all modes of operating with the fan on. When the fan is on the unit shall read and compare the space pressure input to the space pressure setpoint and adjust the return/exhaust fan speed accordingly. The return/exhaust fan shall be controlled to maintain a positive building pressure setpoint of .08" wg (adjustable) above atmospheric pressure.

F. Outside Air Damper Control - During all occupied modes the outside air damper shall be controlled to the effective minimum adjustable position, unless the economizing mode is active. The outside air damper shall be closed during the unoccupied mode, morning warm-up and pre-cool modes or when the outside air temperature falls below a Low Ambient Damper Lockout Setpoint [38°F], operator adjustable. Control outside air supply rate using a carbon-dioxide based demand ventilation control strategy. The outside air and return air dampers shall modulate to provide ventilation CFM to maintain CO2 levels in the spaces. The outside air damper shall be initially set at the minimum position. The dampers shall incrementally increase/decrease to maintain CO2 levels. The EMCS shall monitor CO2 levels in the return air duct. Upon CO2 value rising above 1100 ppm, the outside air damper shall modulate open from the normal position to maintain the CO2 level at 1100 ppm. Once CO2 values fall below set point (1100 ppm), the outside air CFM shall return to its minimum position.

G. Economizer Control - The unit shall allow economizing during all occupied and unoccupied modes. The modulating outdoor air damper shall provide the first source of cooling. The unit shall enable economizer mode if the outside air temperature is between 55°F-65°F, operator configurable. If economizer is initiated, the unit shall modulate the outside air damper between the active minimum position and fully open and shall modulate the mixed air damper between fully open and fully closed to maintain the discharge air temperature at the active discharge air temperature setpoint. If a hardwired outdoor air temperature sensor or a communicated value is not present, economizing shall not be allowed.
1. Provide controls in compliance with current accepted version of IECC.
   a. Provide Outside air, supply air, and return air temperature sensors.
   b. Unit shall report economizer faults to Dallas ISD personnel:
      1) Air temperature.
      2) Not economizing when the unit should be economizing.
      3) Economizing when the unit should not be economizing.
      4) Damper not modulating.
      5) Excess outdoor air.

H. Exhaust Air Control - The unit shall coordinate the exhaust function with the return fan and mixed air damper. The exhaust output shall be energized whenever the supply fan is on and the outdoor air damper open beyond the exhaust fan/damper enable setpoint [30%], operator configurable. The exhaust output shall remain energized until the outdoor air damper closes to below 10% (adjustable) of the exhaust damper enable setpoint and or the supply fan is turned off.

I. Setpoints - The system shall have the following setpoints:
1. Space temperature setpoint shall be 70 Deg. F. for heating and 74 Deg. F. for cooling.
2. Freezestat setpoint shall be set at the device for 35 Deg. F.

J. Initiation of System Shutdown - System shutdown shall be initiated:
1. By operator entered manual command.
2. Automatically by the EMCS base on time schedule or optimal stop.
3. By the fire alarm system. The EMCS shall automatically set the control relay to the off state.

K. Control Points:

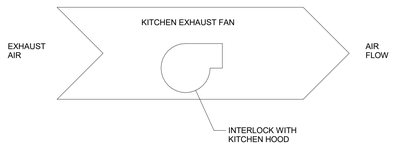
Description	Type
Fan Amps/Status	AI
Filter Alarm	DI
Mixed Air Temperature	AI
Return Air Temperature	AI
Return Air Humidity	AI
Return Air CO2	AI
Preheat Supply Air Temperature (PreCool)	AI
Unit Discharge Air temperature	AI
Static Pressure Sensor	AI
Freeze Status Alarm	DI
High Static Alarm	DI
Fan Start/Stop Command	DO
Chilled Water Valve	AO
Heating Coil Valve	AO
Outside Air Damper	AO
Fan Amps/Status	AI

1.6 KITCHEN HOOD EXHAUST FANS AND MAKEUP AIR UNITS:

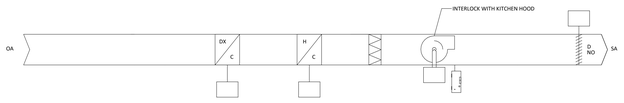
A. General:
1. Kitchen hood, exhaust fans and makeup air units to have standalone kitchen system controls.
2. Kitchen hood exhaust fans to be hardwired interlocked with associated makeup air units.
3. Kitchen hood exhaust fans and makeup air units to be monitored by FMCS.

B. Control Points:

Description	Type
Fan Amps/Status (Each Kitchen Fan)	AI
Fan Amps/Status (Each Makeup Air Fan)	AI



2 KITCHEN EXHAUST FAN CONTROL SCHEMATIC
SCALE: NOT TO SCALE



1 MAU CONTROL SCHEMATIC
SCALE: NOT TO SCALE

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

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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
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1.10 STEAM HEATING SYSTEM (OEM BOILER SEQUENCER):

A. General: The steam heating system includes (1) steam boiler and a duplex condensate pump.

B. Heating System Enabling/Disabling:
1. The occupied/unoccupied mode of operation to be defined by the EMCS optimum start/stop schedule.
2. The EMCS enables the heating system based on an ambient temperature below 60° F (adjustable) and requests for heating as necessary. The number of requests to be adjustable. This system enables the boiler sequencer (provided by boiler manufacturer).

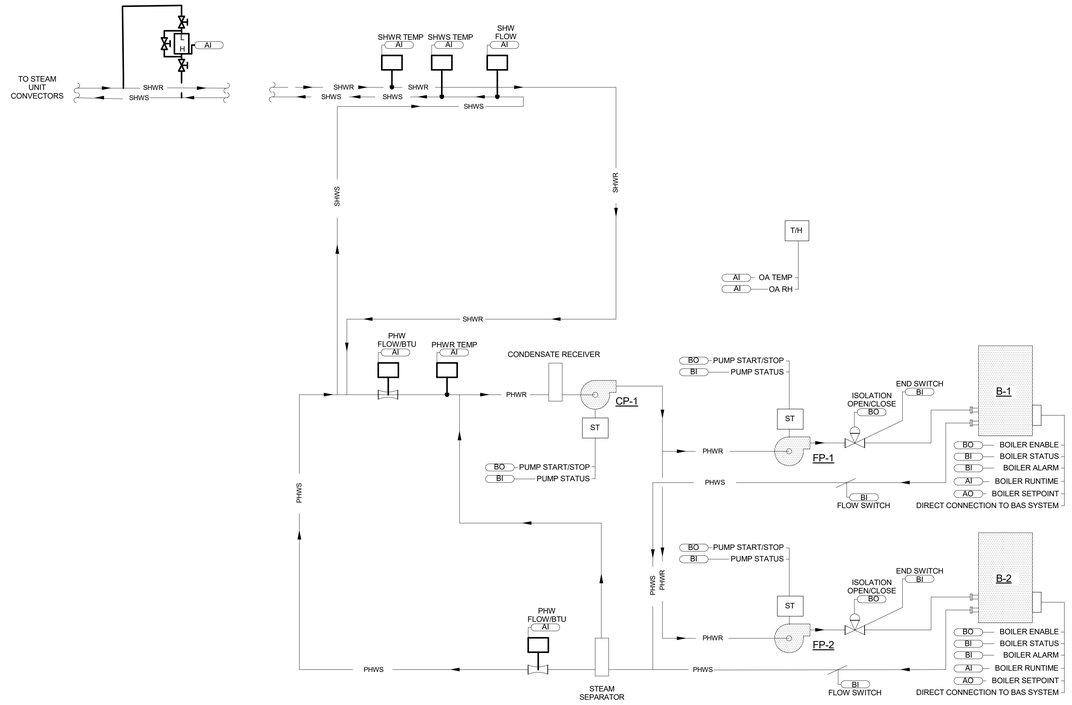
C. Steam Heating System Sequence:
1. First Stage: Using a system starter thermostat (typically a Honeywell T675A set for 65°F), the boiler energized upon a temperature drop below 65°F, go through their low fire start, and begin to ramp up to high fire.
2. Second Stage: One L404F (LHL controller) set for 3 psi drops the boiler to low fire.
3. All Off: One L404F (operator) set at 4 psi turns off the boiler.
4. The pressuretrols shall be set at a ½ psi differential to turn the boilers back on as steam pressure drops:
   a. 3½ psi - boiler comes on at low fire through its operating controller.
   b. 2½ psi - boiler goes to high fire through its LHL controller.
   c. This process repeats throughout the heating season.
5. All pressuretrols shall be header mounted unless there are intervening stop valves, in which case these controls should remain on the boiler.
6. Manual reset controls shall be mounted on the boiler. The L4079B should be set for approximately 6 psi (adj.).
7. The installation shall be fine tuned to the specific operating conditions to maximize efficiency.

D. Condensate Pumps:
1. Interlock the condensate pumps with the boiler.

E. Safeties:
1. Freeze Protection:
   a. When the outside air (OA) temperature drops below 36°F (adjustable), the heating system starts, and all building heating valves to be open to 20%.
   b. When the OA temperature rises 2°F above freeze protection setpoint for one (1) hour, the reverse occurs.
2. CO Monitoring:
   a. Install a carbon monoxide sensor in boiler rooms.
   b. Interlock carbon monoxide sensor with boiler(s) and shutdown boiler(s) when carbon monoxide rises above 50 ppm.
   c. Carbon monoxide alarm to disable any supply fans in boiler room and enable all exhaust fans in boiler room.

F. Control Points:

Description	Type
Outside Air Temperature	AI
Boiler Start/Stop	BO
Boiler Status	BI
Boiler Alarm	BI
Boiler Runtime	AI
Boiler Isolation Valve Flow Switch	BI
Steam Supply Temperature Setpoint	AO
Boiler Flow Switch	BI
Boiler Isolation Valve	BO
Condensate Pump Start/Stop	BO
Condensate Pump Status	BI
Steam Valve	AO
Steam Pressure	AO
Note: Additional points may be needed to accomplish the Sequence of Operation	



1 STEAM BOILER CONTROL SCHEMATIC
SCALE: NOT TO SCALE

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

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McKISSACK McKISSACK

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

Blair Elementary School

7720 Gayglen Dr, Dallas, TX 75228

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PLUMBING ABBREVIATIONS, SYMBOLS AND NOTES (THIS IS A STANDARD LEGEND, NOT ALL SYMBOLS MAY BE APPLICABLE TO PROJECT)

ABBREVIATIONS

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

PLUMBING LEGEND

	SANITARY OR WASTE PIPING (SS)
	SAND & OIL WASTE PIPING (SO)
	STORM DRAIN PIPING (SD)
	SUB-SOIL DRAIN OR FOOTING DRAIN (SSD)
	ACID WASTE PIPING (AW)
	PUMPED DISCHARGE (PD)
	CONDENSTATE DRAIN PIPING (CD)
	CONDENSTATE - INDIRECT DRAIN PIPING (D)
	VENT PIPING (V)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RETURN PIPING (HWR)
	FILTERED COLD WATER PIPING (FCW)
	CHILLED DRINKING WATER PIPING (CDW)
	TRAP PRIMER LINE (TP)
	FIRE PROTECTION PIPING (F)
	FIRE SPRINKLING PIPING (FS)
	NATURAL GAS PIPING (G)
	ACID VENT PIPING (AV)
	COMPRESSED AIR PIPING (A)
	GREASE VENT PIPING (GV)
	GREASE WASTE PIPING (GW)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	HORIZONTAL SWING CHECK
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD) (TCO)
	FIRE DEPARTMENT VALVE AT RISER
	FIRE DEPARTMENT CONNECTION (FDC)
	FIRE HYDRANT
	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
PR	GAS PRESSURE REGULATOR
	TEST COCK
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	OS&Y VALVE
	ROOF DRAIN - RISER DIAGRAM
1	REFER TO KEYED NOTE
FS	FLOW SWITCH
FS	FLOOR SINK (FS)
FD	FLOOR DRAIN (FD)
FD	FLOOR DRAIN WITH P-TRAP (FD)
FD	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)
HD	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER -RISER DIAGRAM
AP	ACCESS PANEL LOCATION SYMBOL
A	SHOCK ABSORBER WITH ACCESS PANEL - RISER DIAGRAM
(E)	EXISTING
(N)	NEW
	POINT OF NEW CONNECTION TO EXISTING
	POINT OF DISCONNECTION FROM EXISTING
IE=100.00'	INVERT ELEVATION
1/4" PER FOOT	QUARTER OF AN INCH SLOPE
1/8" PER FOOT	1/8TH OF AN INCH SLOPE
1/16" PER FOOT	1/16TH OF AN INCH SLOPE
1	DELTA CHANGE SYMBOL
P 1	RISER FLAG

PLUMBING GENERAL NOTES

GENERAL CONDITONS:

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 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. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
9. 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.
10. PIPE LOCATIONS SHOWN ARE FOR ILLUSTRATION ONLY. LOCATE SERVICE LINES AND DROPS AGAINST WALLS AND BEHIND EQUIPMENT WHERE POSSIBLE.
11. 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.
12. REFER TO PLUMBING SPECIFICATIONS FOR PRESSURE TESTING OF SYSTEM PRIOR TO FINAL HOOK-UP.
13. 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.
14. PROVIDE CLEANOUTS AT NO MORE THAN 75 FT. APART IN HORIZONTAL SANITARY DRAINAGE LINES 4" SIZE OR LESS.
15. SECURE AND VERIFY ALL MEASUREMENTS AND CONDITIONS AT JOB BEFORE PROCEEDING WITH FABRICATION OF WORK.
16. ROUGH IN ALL PIPING THRU FACE OF WALL WHERE POSSIBLE, EXCEPT IN OUTSIDE WALLS. TERMINATE WITH SHORT NIPPLE AND CAP.
17. ALL FIXTURES TO BE EQUIPPED WITH STOP VALVES IN ACCESSIBLE LOCATIONS.
18. COORDINATE EXACT LOCATION AND INVERT ELEVATION OF ALL SANITARY AND DOMESTIC WATER PIPING EXITS FROM STRUCTURE WITH THE SITE UTILITY CONTRACTOR.
19. REFER TO DRAINAGE AND UTILITY DRAWINGS FOR CONTINUATION OF ALL PIPING BEYOND 5'-0" FROM BUILDING.
20. CONTRACTOR SHALL COORDINATE INVERT ELEVATIONS OF DOMESTIC WATER, SANITARY SEWER, AND GAS LINE WITH THE CIVIL ENGINEER WHERE CROSSING OCCURS.
21. CONTRACTOR SHALL SLEEVE ALL PIPING THAT PASSES THROUGH THE GRADE BEAM WITH A DIAMETER 2 INCHES GREATER THAN PIPE DIAMETER. SLEEVE SHALL BE LOCATED AT MID-DEPTH OF GRADE BEAM OR OTHERWISE CONTACT ENGINEER FOR APPROVAL.
22. CONTRACTOR SHALL ROUTE CONDENSATE LINES FROM AIR HANDLING UNITS TO APPROVED RECEPTORS. SLOPE CONDENSATE AT 1/8" PER FOOT UNLESS OTHERWISE NOTED ON DRAWINGS.

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

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

JAMES T. BARRON 83873 LICENSED PROFESSIONAL ENGINEER
11/16/2025

BH&
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandheng ineers.com
Registration No. 9102

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Blair Elementary School

7720 Gayglen Dr. Dallas, TX 75228

PLUMBING COVER SHEET

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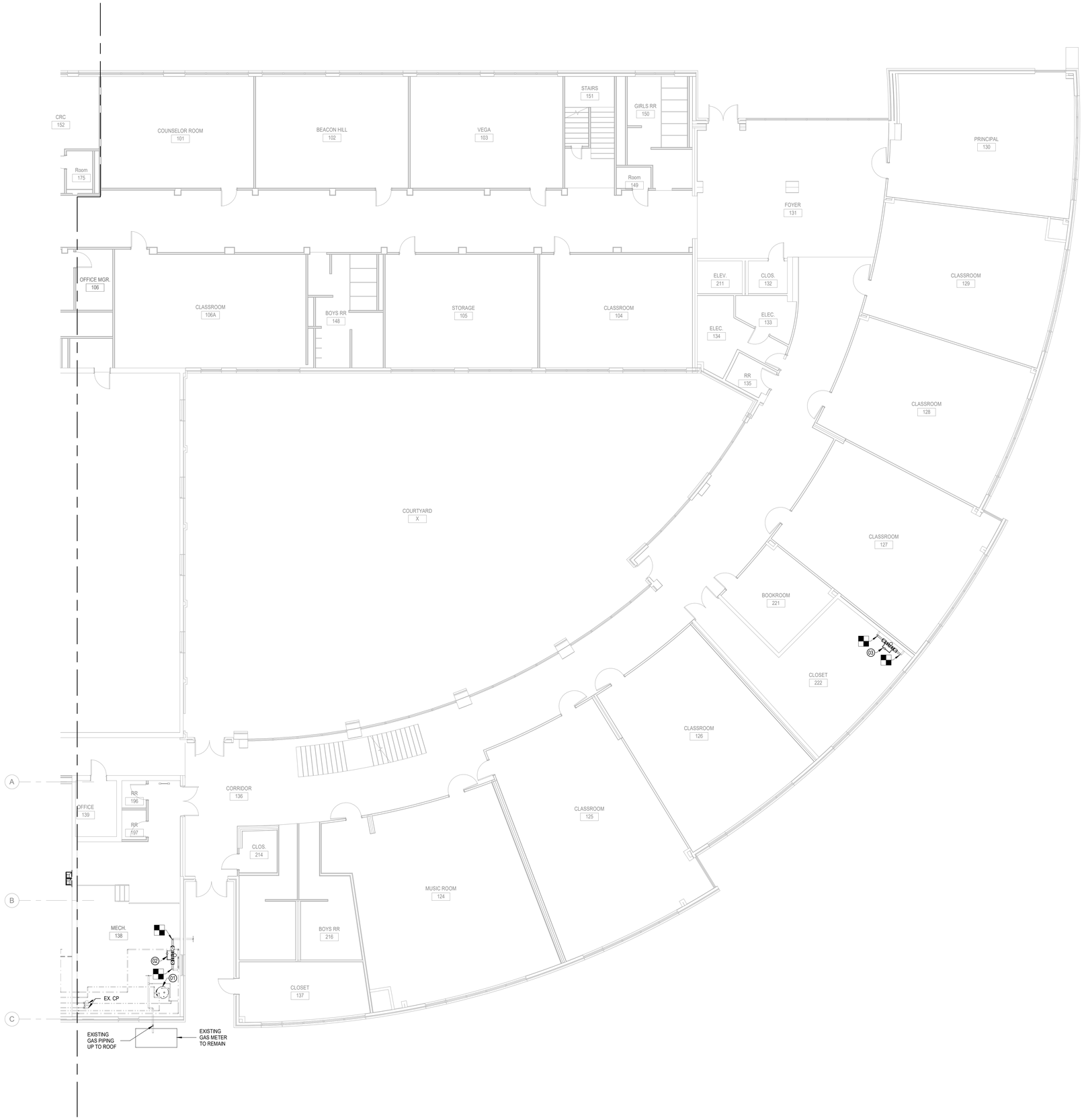
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1 PLUMBING FIRST FLOOR DEMOLITION PLAN 'AREA A'
SCALE: 1/8" = 1'-0"

LEGEND	
	EXISTING
- - - - -	DEMOLITION

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 CLEANOUTS 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. REFER TO FOOD SERVICE FOR KITCHEN EQUIPMENT ROUGH-INS.
6. CONTRACTOR TO PROVIDE PIPING AS REQUIRED TO ACCOMMODATE REINSTALLED FIXTURES AT DIFFERENT ELEVATION.

NOTES BY SYMBOL:

01	DISCONNECT GAS WATER HEATER FROM EXISTING DOMESTIC WATER AND GAS PIPING. DEMOLISH WATER HEATER AND ASSOCIATED CONDENSATE DRAIN PIPING.
02	BID ALTERNATE: DISCONNECT (2) 2" RPZ FROM DOMESTIC WATER PIPING. DEMOLISH (2) 2" RPZ AND PREPARE PIPING FOR CONNECTION TO NEW RPZ ASSEMBLY. SEE P1.01-2 FOR EXISTING CONDITION.
03	BID ALTERNATE: DISCONNECT 2-1/2" RPZ FROM DOMESTIC WATER PIPING. DEMOLISH (2) 2" RPZ AND PREPARE PIPING FOR CONNECTION TO NEW RPZ ASSEMBLY.



2 EXISTING RPZs
SCALE: NOT TO SCALE

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

JAMES T. BARRON 83873 LICENSED PROFESSIONAL ENGINEER
11/16/2025

B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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DALLAS INDEPENDENT SCHOOL DISTRICT
McKISSACK McKISSACK

Blair Elementary School

7720 Gaylen Dr. Dallas, TX 75228

PLUMBING FIRST FLOOR DEMOLITION PLAN 'AREA A'

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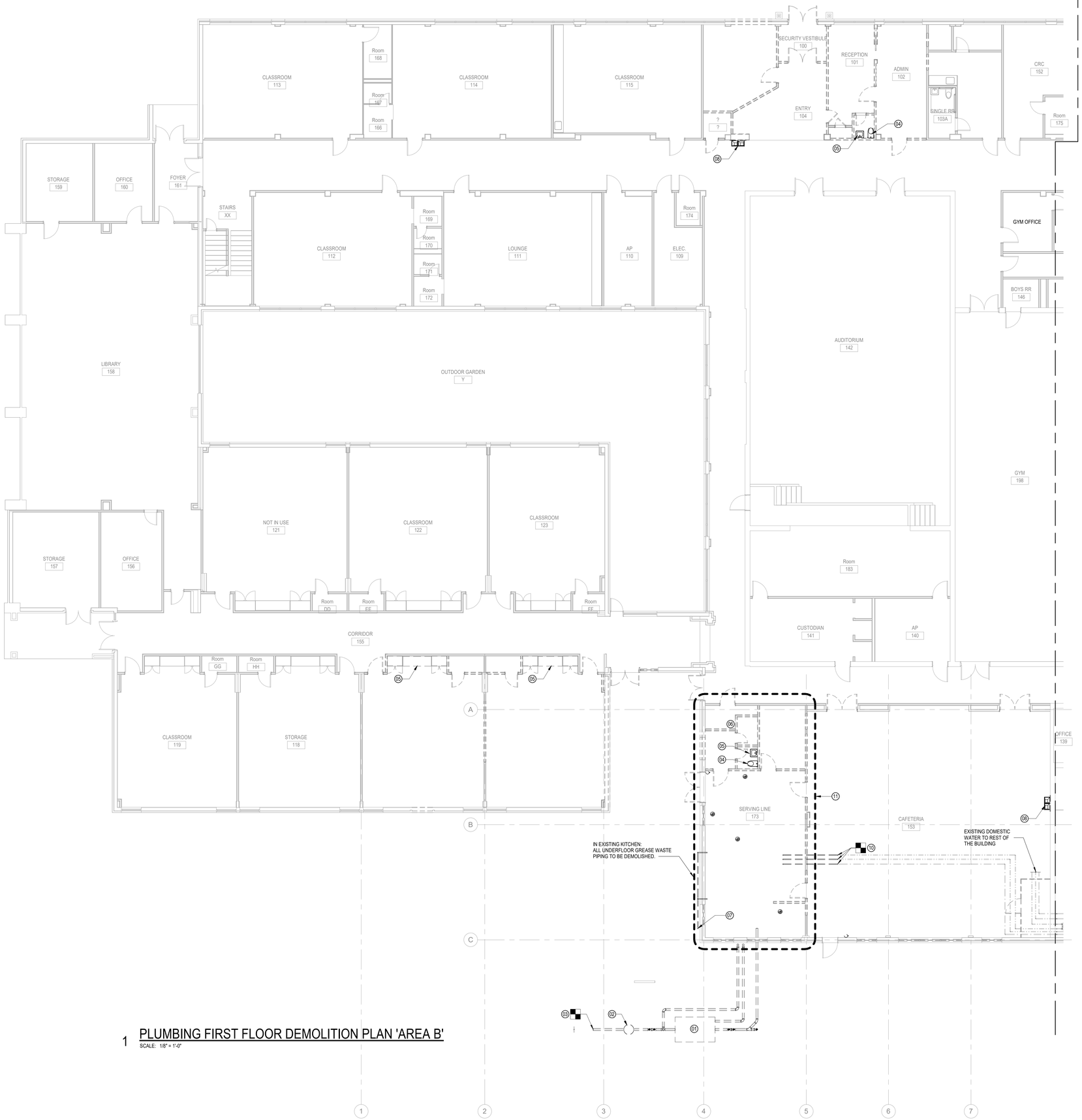
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1 PLUMBING FIRST FLOOR DEMOLITION PLAN 'AREA B'
SCALE: 1/8" = 1'-0"

LEGEND	
	EXISTING
- - - -	DEMOLITION

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 CLEANOUTS LOCATED 8" 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. REFER TO FOOD SERVICE FOR KITCHEN EQUIPMENT ROUGH-INS.
6. CONTRACTOR TO PROVIDE PIPING AS REQUIRED TO ACCOMMODATE REINSTALLED FIXTURES AT DIFFERENT ELEVATION.

NOTES BY SYMBOL:

01	EXISTING 1250 GALLON GREASE WASTE INTERCEPTOR TO BE DEMOLISHED ALONG WITH ALL ASSOCIATED GREASE WASTE AND GREASE VENT PIPING.
02	DEMOLISH EXISTING SAMPLE WELL.
03	SANITARY LINE AT OUTLET OF GREASE WASTE INTERCEPTOR TO BE DEMOLISHED UP TO LOCATION OF NEW GREASE WASTE INTERCEPTOR CONNECTION.
04	DISCONNECT AND DEMOLISH EXISTING WATER CLOSET. DEMOLISH AND CAP DOMESTIC WATER, SANITARY, AND VENT CONNECTIONS BACK TO MAINS IN CRAWLSPACE.
05	DISCONNECT AND DEMOLISH EXISTING LAVATORY. DEMOLISH AND CAP DOMESTIC WATER, SANITARY, AND VENT CONNECTIONS BACK TO MAINS IN CRAWLSPACE.
06	DISCONNECT AND DEMOLISH EXISTING MOP SINK. DEMOLISH AND CAP DOMESTIC WATER, SANITARY, AND VENT CONNECTIONS BACK TO MAINS IN CRAWLSPACE.
07	DEMOLISH NATURAL GAS LINE DOWN FROM ROOF SERVING KITCHEN EQUIPMENT.
08	DISCONNECT EXISTING DRINKING FOUNTAIN FROM DOMESTIC WATER, SANITARY, AND VENT PIPING IN WALL. DEMOLISH EXISTING DRINKING FOUNTAIN. PREPARE EXISTING DOMESTIC WATER, SANITARY, AND VENT PIPING FOR CONNECTION TO NEW DRINKING FOUNTAIN.
10	DEMOLISH ALL COLD WATER, HOT WATER, AND HOT WATER RETURN LINES FROM KITCHEN FIXTURES TO INDICATED LOCATION. PREPARE LINES FOR FUTURE CONNECTION.
11	DEMOLISH ALL GREASE WASTE AND VENT PIPING IN KITCHEN AND IN CRAWLSPACE UP TO GREASE TRAP.

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

JAMES T. BARRON 83873 LICENSED ARCHITECT
11/16/2025

B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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Blair Elementary School

7720 Gaylen Dr. Dallas, TX 75228

PLUMBING FIRST FLOOR DEMOLITION PLAN 'AREA B'

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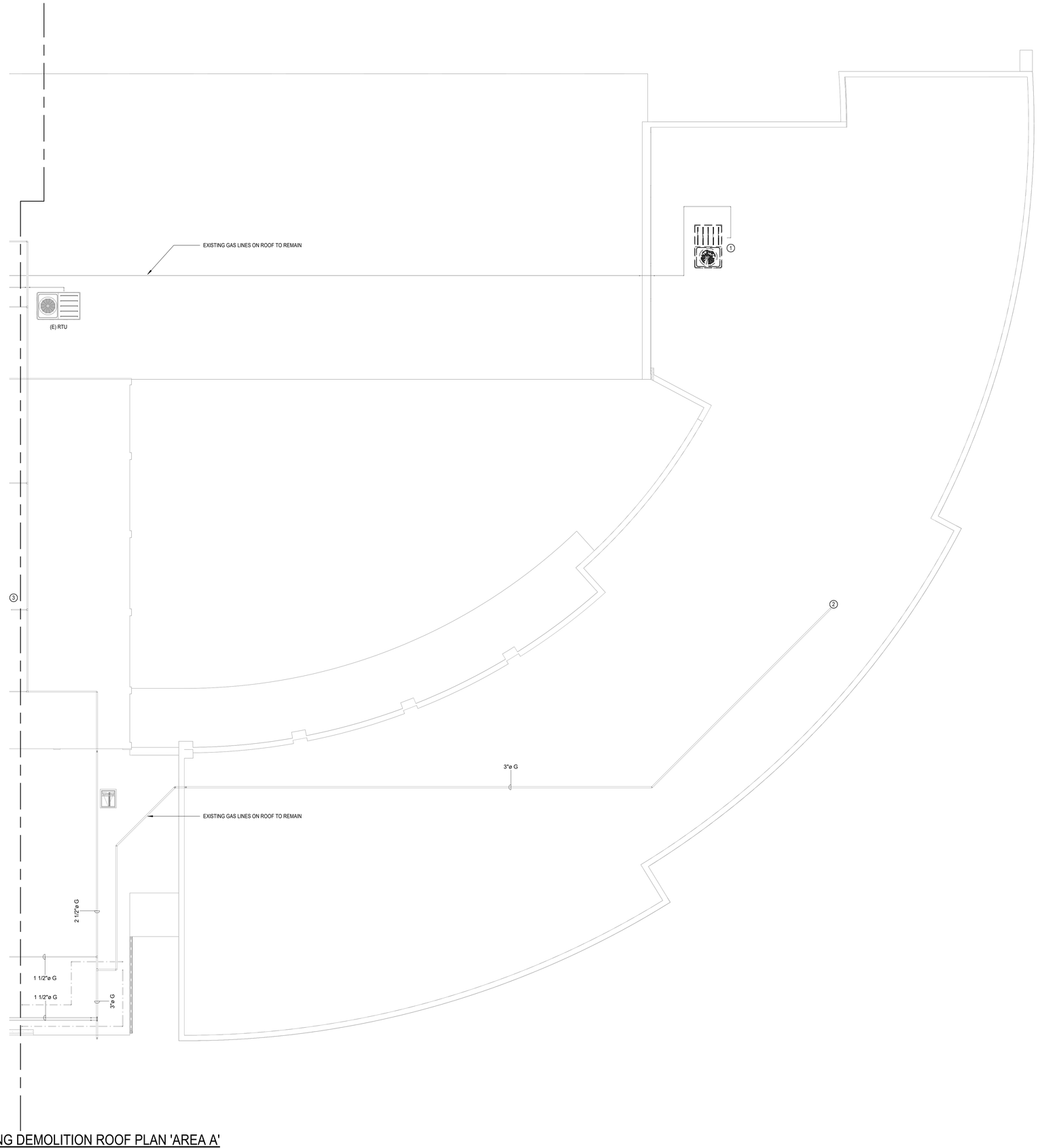
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1 PLUMBING DEMOLITION ROOF PLAN 'AREA A'
SCALE: 1/8" = 1'-0"

LEGEND	
———	EXISTING
- - - - -	DEMOLITION

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 CLEANOUTS 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. REFER TO FOOD SERVICE FOR KITCHEN EQUIPMENT ROUGH-INS.
6. CONTRACTOR TO PROVIDE PIPING AS REQUIRED TO ACCOMMODATE REINSTALLED FIXTURES AT DIFFERENT ELEVATION.

NOTES BY SYMBOL:

1	BID ALTERNATE: DISCONNECT EXISTING GAS LINE FROM RTU TO BE DEMOLISHED.
2	NATURAL GAS PIPING SHOWN FOR REFERENCE.

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

JAMES T. BARRON
83873
LICENSED PROFESSIONAL ENGINEER
11/16/2025

B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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PLUMBING ROOF DEMOLITION PLAN 'AREA A'

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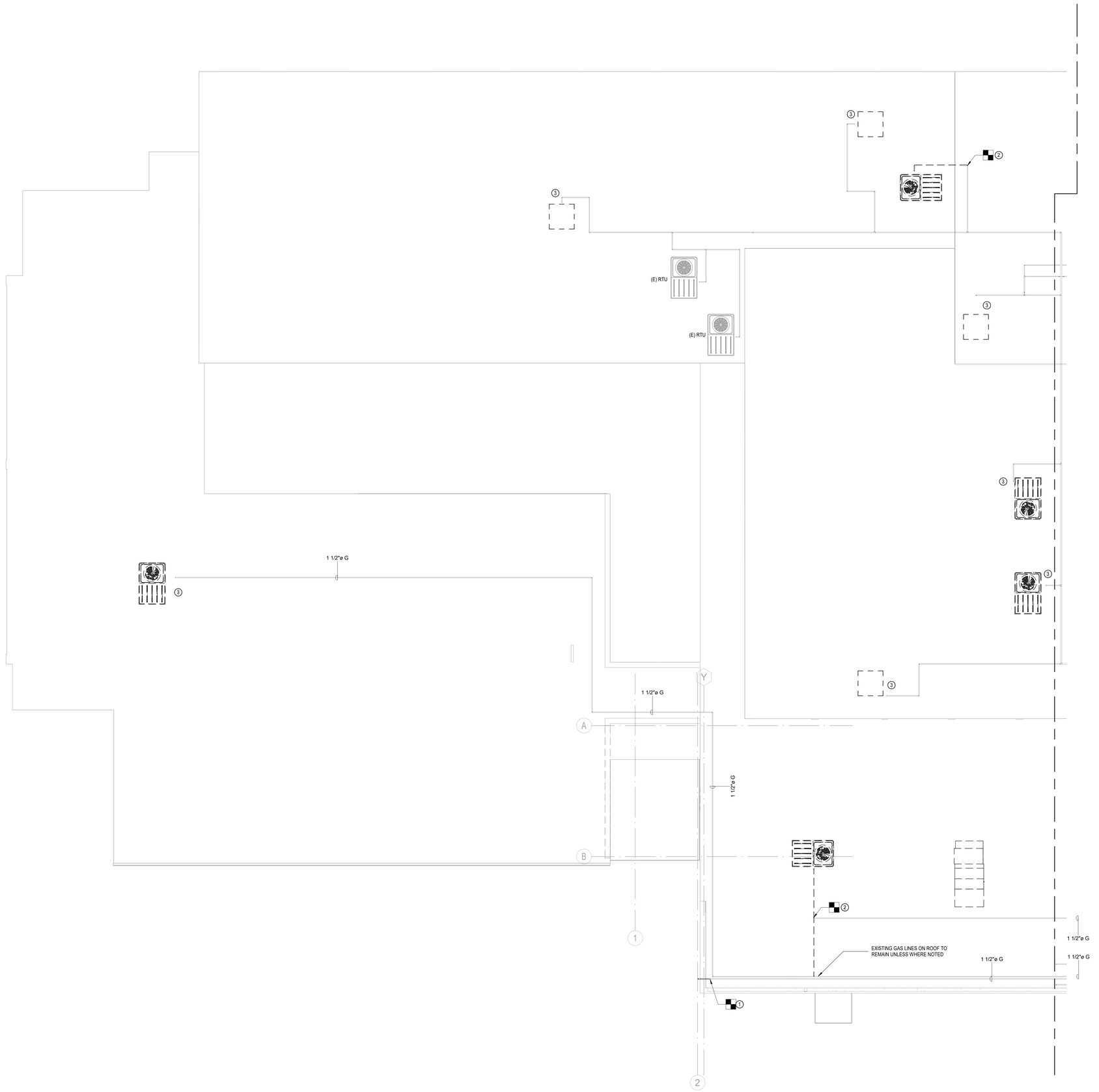
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1 PLUMBING DEMOLITION ROOF PLAN 'AREA B'
SCALE: 1/8" = 1'-0"

LEGEND	
———	EXISTING
- - - -	DEMOLITION

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 CLEANOUTS 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. REFER TO FOOD SERVICE FOR KITCHEN EQUIPMENT ROUGH-INS.
6. CONTRACTOR TO PROVIDE PIPING AS REQUIRED TO ACCOMMODATE REINSTALLED FIXTURES AT DIFFERENT ELEVATION.

NOTES BY SYMBOL:

1	DEMOLISH GAS PIPING SERVING KITCHEN UP TO THIS LOCATION ON ROOF. LEAVE BRANCH AVAILABLE FOR FUTURE CONNECTION TO KITCHEN EQUIPMENT.
2	DEMOLISH GAS PIPING UP TO THIS LOCATION ON ROOF. LEAVE BRANCH AVAILABLE FOR FUTURE CONNECTION TO RTU.
3	BID ALTERNATE: DISCONNECT EXISTING GAS LINE FROM RTU TO BE DEMOLISHED.

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

JAMES T. BARRON
83873
LICENSED
PROFESSIONAL
ENGINEER
11/16/2025

B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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PLUMBING ROOF DEMOLITION PLAN 'AREA B'

DRAWING RECORD

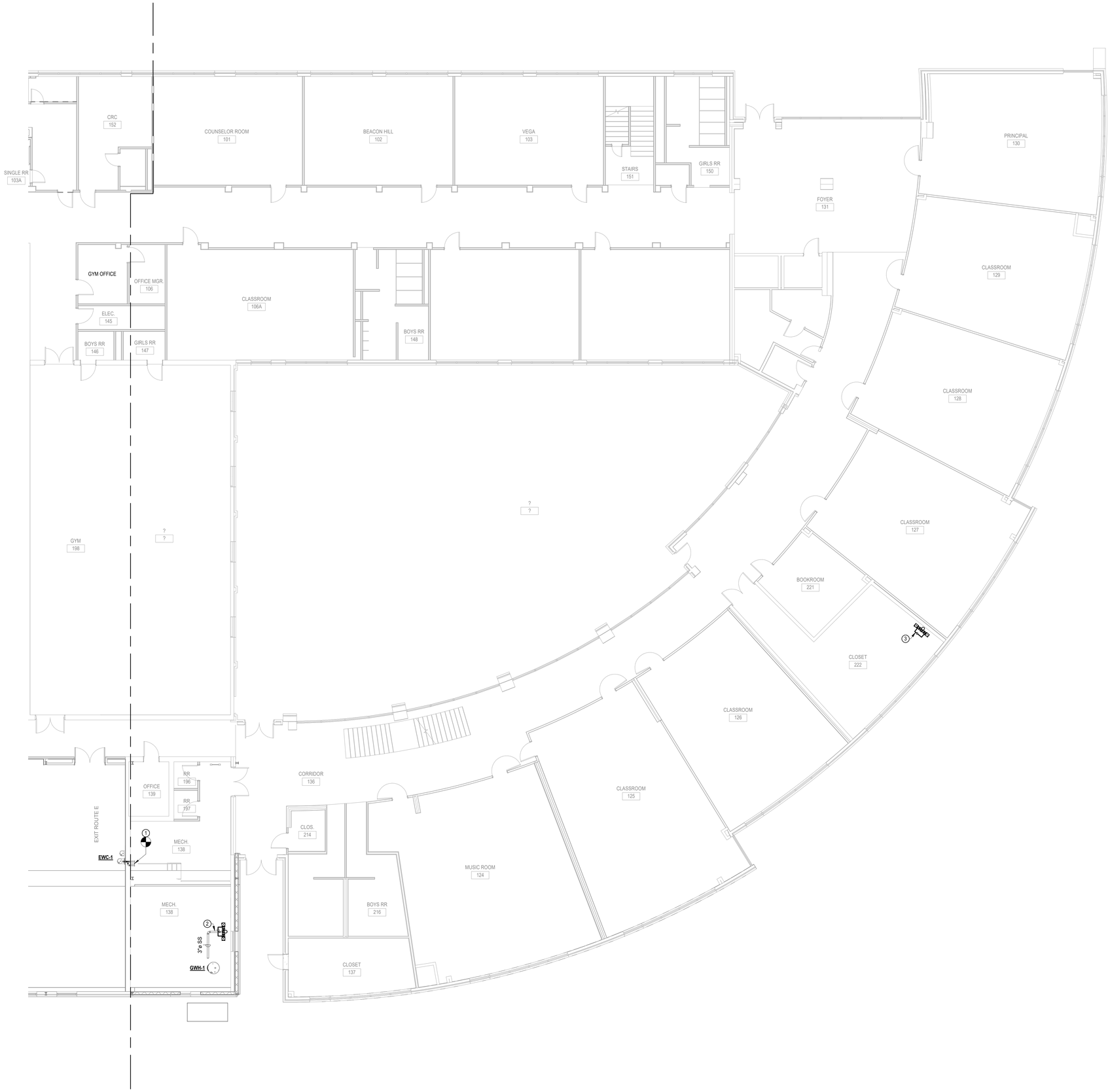
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1 SANITARY & VENT FIRST FLOOR PLAN 'AREA A'
SCALE: 1/8" = 1'-0"

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 CLEANOUTS 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. REFER TO FOOD SERVICE FOR KITCHEN EQUIPMENT ROUGH-INS.
6. CONTRACTOR TO PROVIDE PIPING AS REQUIRED TO ACCOMMODATE REINSTALLED FIXTURES AT DIFFERENT ELEVATION.

NOTES BY SYMBOL:

1	CONNECT NEW 2" SANITARY LINE TO NEAREST EXISTING 2" OR GREATER SANITARY SEWER LINE.
2	BID ALTERNATE: PROVIDE EACH RPZ WITH A 3" HUB DRAIN. PROVIDE 3" SS PIPING AND ROUTE TO NEAREST FLOOR SINK. FIELD VERIFY EXACT LOCATION OF EXISTING FLOOR SINK PRIOR TO INSTALLATION.
3	BID ALTERNATE: PROVIDE RPZ ORIENTED SUCH TO REUSE EXISTING HUB DRAIN AND DRAIN PIPING.

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

JAMES T. BARRON 83873 LICENSED PROFESSIONAL ENGINEER
11/16/2025

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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SANITARY & VENT FIRST FLOOR PLAN 'AREA A'

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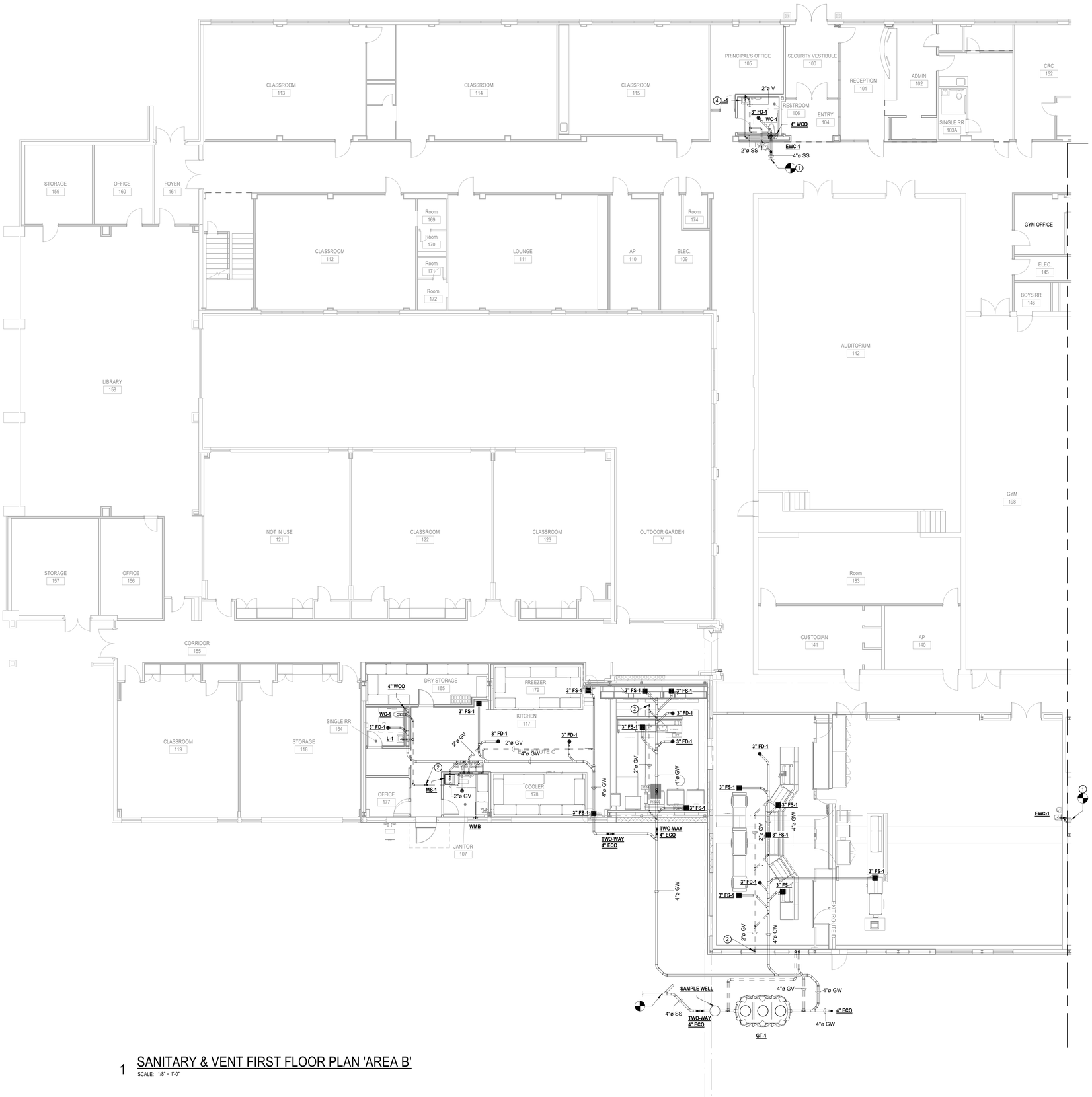
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1 SANITARY & VENT FIRST FLOOR PLAN 'AREA B'
SCALE: 1/8" = 1'-0"

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 CLEANOUTS 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. REFER TO FOOD SERVICE FOR KITCHEN EQUIPMENT ROUGH-INS.
6. CONTRACTOR TO PROVIDE PIPING AS REQUIRED TO ACCOMMODATE REINSTALLED FIXTURES AT DIFFERENT ELEVATION.

NOTES BY SYMBOL:

1	CONNECT NEW 4" SANITARY LINE FROM NEW BATHROOM TO NEAREST EXISTING 4" OR GREATER SANITARY SEWER LINE.
2	2" GREASE VENT THROUGH ROOF.
4	PROVIDE 2" WALL CLEANOUT INSTALLED UNDER SINK.

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1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
(972) 233-0400 AllianceArch.com

JAMES T. BARRON 83873 LICENSED ARCHITECT

11/16/2025

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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DRAWING RECORD

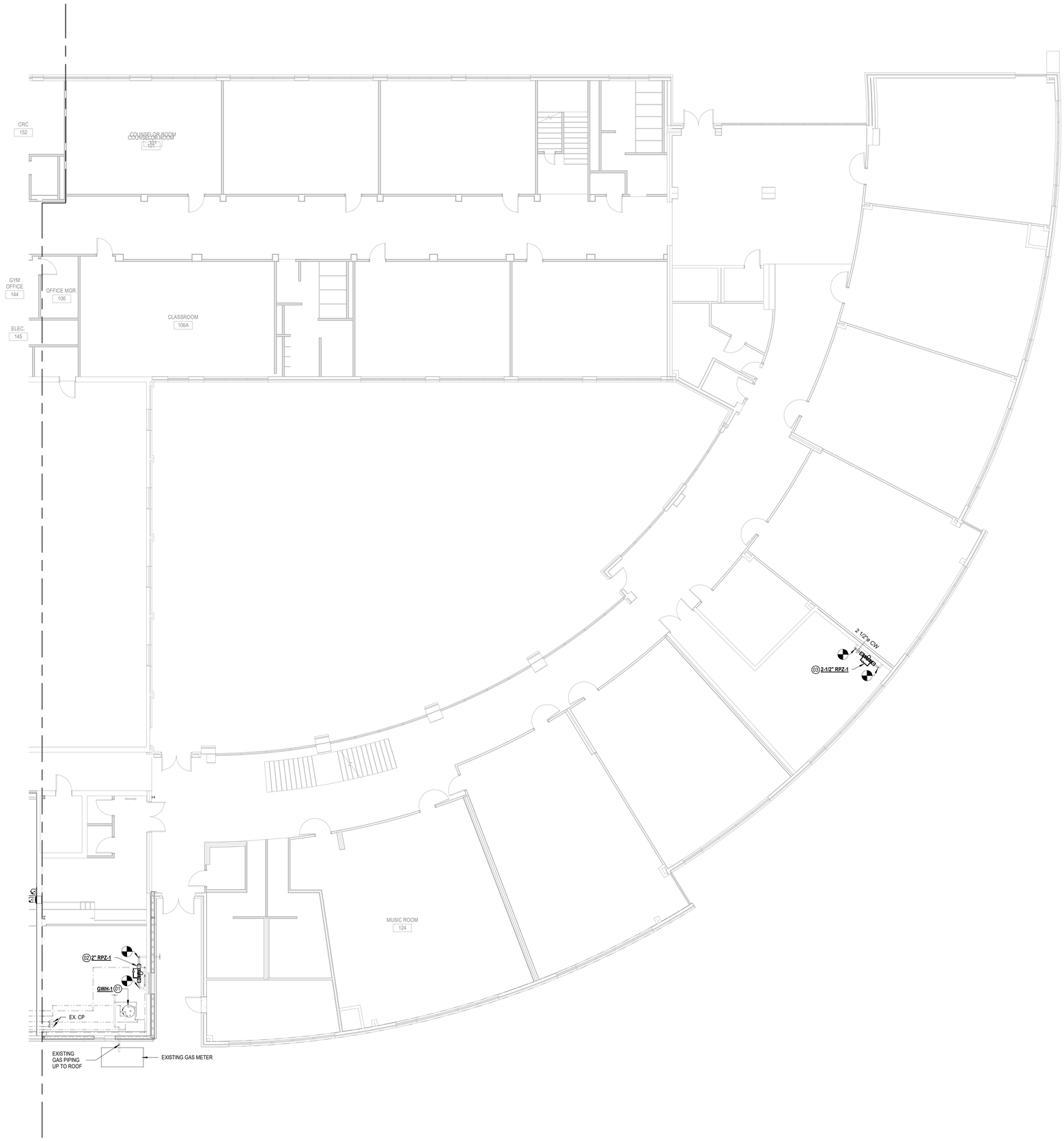
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1 DOMESTIC WATER & GAS FIRST FLOOR PLAN 'AREA A'
SCALE: 1/8" = 1'-0"

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 CLEANOUTS 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. REFER TO FOOD SERVICE FOR KITCHEN EQUIPMENT ROUGH-INS.
6. CONTRACTOR TO PROVIDE PIPING AS REQUIRED TO ACCOMMODATE REINSTALLED FIXTURES AT DIFFERENT ELEVATION.

NOTES BY SYMBOL:

01	PROVIDE NEW 199 MBH 90 GALLON GAS FIRED WATER HEATER. RECONNECT TO EXISTING DOMESTIC WATER AND GAS PIPING. PROVIDE NEW CONDENSATE DRAIN PIPING. REUSE EXISTING HOUSEKEEPING PAD.
02	BID ALTERNATE: PROVIDE (2) RPZ ASSEMBLIES AND CONNECT TO EXISTING PIPING. SEE DETAIL FOR RPZ INSTALLATION.
03	BID ALTERNATE: PROVIDE RPZ ASSEMBLY AND CONNECT TO EXISTING PIPING. SEE DETAIL FOR RPZ INSTALLATION.

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1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
(972) 233-0400 AllianceArch.com

511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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DOMESTIC WATER & GAS PLAN 'AREA A'

DRAWING RECORD

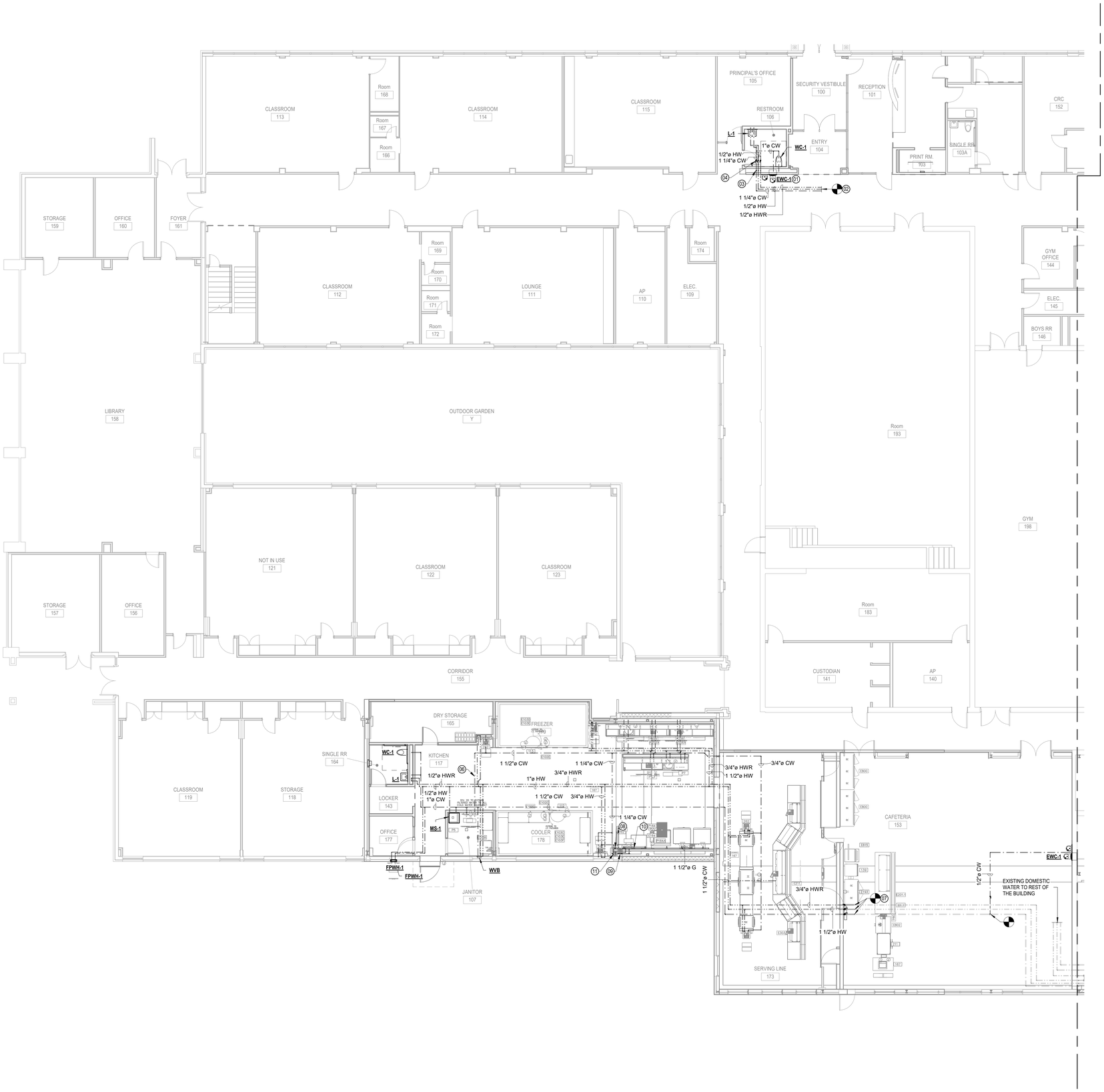
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1 DOMESTIC WATER & GAS FIRST FLOOR PLAN 'AREA B'
SCALE: 1/8" = 1'-0"

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 CLEANOUTS 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. REFER TO FOOD SERVICE FOR KITCHEN EQUIPMENT ROUGH-INS.
6. CONTRACTOR TO PROVIDE PIPING AS REQUIRED TO ACCOMMODATE REINSTALLED FIXTURES AT DIFFERENT ELEVATION.

NOTES BY SYMBOL:

01	PROVIDE NEW ELECTRIC WATER COOLER WITH BOTTLE FILLER.
02	PROVIDE NEW 1-1/4" CW, 1/2" HW, AND 1/2" HWR LINE FROM NEAREST EXISTING MAINS IN CRAWLSPACE.
03	1-1/4" CW, 1/2" HW, AND 1/2" HWR PIPING UP IN WALL TO CEILING SPACE.
04	PROVIDE ISOLATION VALVES IN DOMESTIC COLD WATER, DOMESTIC HOT WATER, AND DOMESTIC HOT WATER RECIRCULATION PIPING. PROVIDE WITH ACCESS PANEL IN CEILING. REFER TO ARCHITECTURAL FOR ACCESS PANEL FINISH DETAILS.
06	FILTERED COLD WATER DISTRIBUTION PIPING.
07	CONNECT NEW DOMESTIC COLD WATER, DOMESTIC HOT WATER, AND HOT WATER RECIRC TO EXISTING LINES ABOVE CEILING. PROVIDE SHUTOFF VALVES ACCESSIBLE IN CEILING. FIELD VERIFY EXACT LOCATION OF EXISTING DOMESTIC WATER PIPING PRIOR TO INSTALLATION.
08	1-1/2" NATURAL GAS PIPING FROM ROOF. PROVIDE MANUAL SHUTOFF VALVE AND ANSUL VALVE TIED TO HOODS ACCESSIBLE BELOW CEILING.
09	3/4" SOFTENED DOMESTIC HOT AND COLD WATER CONNECTIONS TO FOOD SERVICE EEQUIPMENT. REFER TO FOOD SERVICE DRAWINGS FOR EQUIPMENT LIST AND ROUGH-INS.
10	NATURAL GAS PIPING SERVING KITCHEN EQUIPMENT ROUTED LOW AND EXPOSED IN SPACE.
11	PROVIDE DOMESTIC WATER PIPING WITH BACKFLOW PREVENTION DEVICE WATTS #009. INSTALL BFP ACCESSIBLE IN KITCHEN.

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1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
(972) 233-0400 AllianceArch.com

511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

11/16/2025

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DOMESTIC WATER & GAS PLAN 'AREA B'

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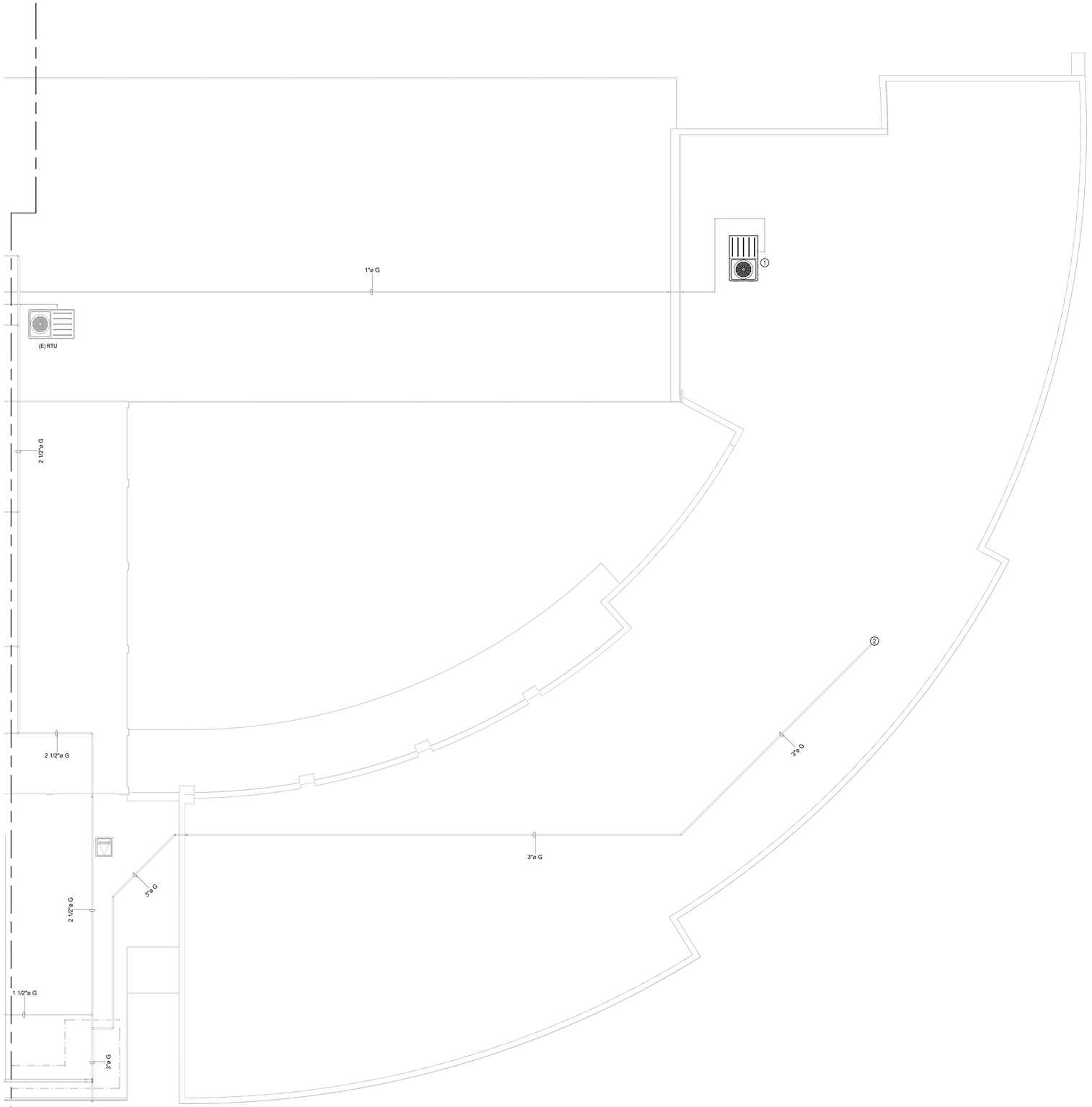
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1 PLUMBING ROOF PLAN 'AREA A'
SCALE: 1/8" = 1'-0"

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.
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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. REFER TO FOOD SERVICE FOR KITCHEN EQUIPMENT ROUGH-INS.
6. CONTRACTOR TO PROVIDE PIPING AS REQUIRED TO ACCOMMODATE REINSTALLED FIXTURES AT DIFFERENT ELEVATION.

NOTES BY SYMBOL:

1	BID ALTERNATE: PROVIDE NEW CONNECTION FROM EXISTING GAS LINE TO NEW ROOFTOP EQUIPMENT.
2	NATURAL GAS PIPING SHOWN FOR REFERENCE.

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

JAMES T. BARRON
83873
LICENSED
PROFESSIONAL
ENGINEER
11/16/2025

B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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PLUMBING ROOF PLAN 'AREA A'

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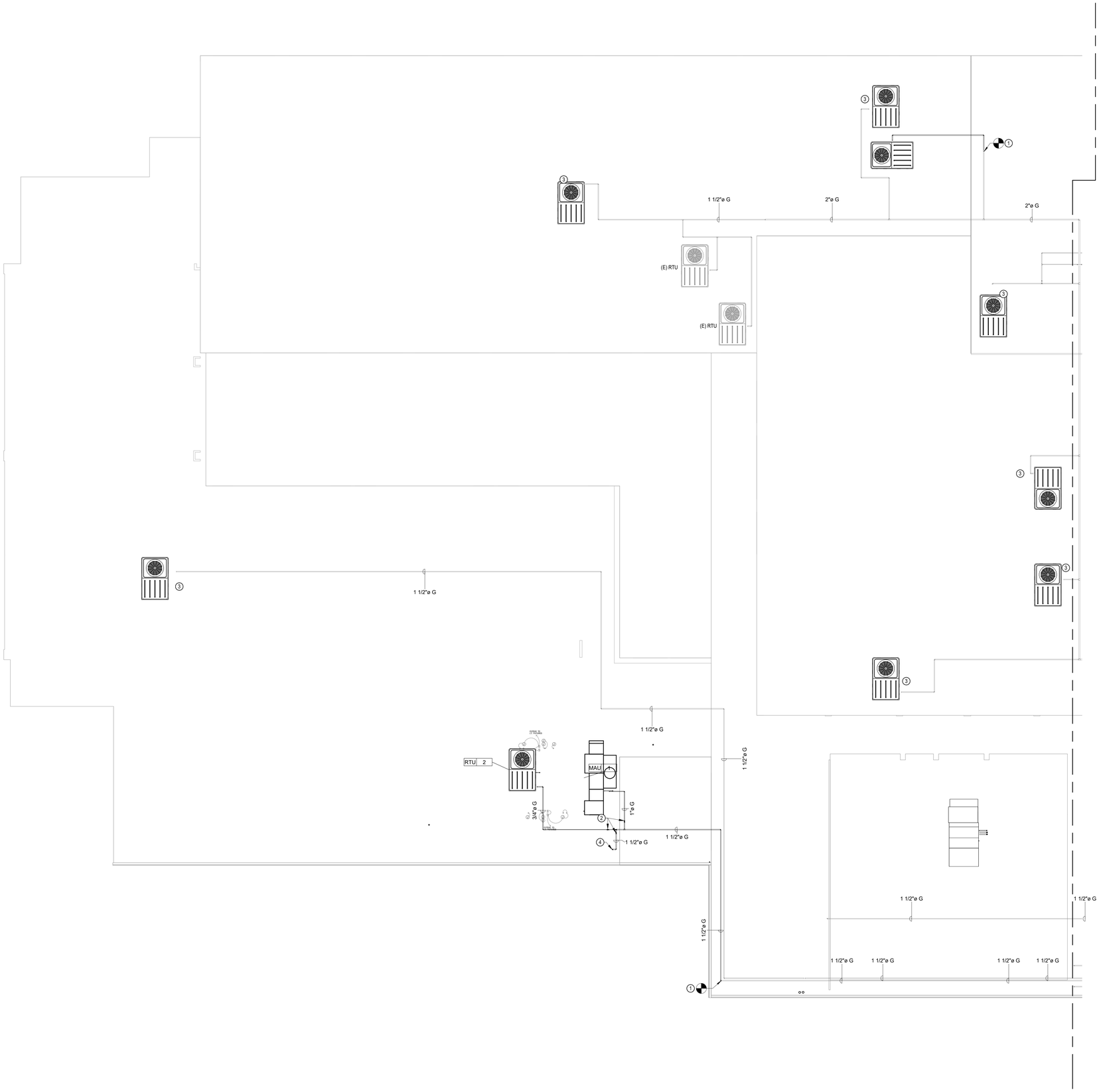
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1 PLUMBING ROOF PLAN 'AREA B'
SCALE: 1/8" = 1'-0"

PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING PIPING, INVERTS AND EXACT LOCATIONS OF EXISTING PLUMBING EQUIPMENT BEFORE BEGINNING ANY WORK.
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5. REFER TO PLUMBING ROUGH-IN SCHEDULE FOR PIPE SIZES TO INDIVIDUAL FIXTURES. REFER TO FOOD SERVICE FOR KITCHEN EQUIPMENT ROUGH-INS.
6. CONTRACTOR TO PROVIDE PIPING AS REQUIRED TO ACCOMMODATE REINSTALLED FIXTURES AT DIFFERENT ELEVATION.

NOTES BY SYMBOL:

1	PROVIDE NEW 1-1/2" CONNECTION TO EXISTING NATURAL GAS LINE ON ROOF.
2	PROVIDE SHUTOFF VALVE AND REGULATOR IN NATURAL GAS PIPING BRANCH.
3	BID ALTERNATE: PROVIDE NEW CONNECTION FROM EXISTING GAS LINE TO NEW ROOFTOP EQUIPMENT.
4	1-1/2" NATURAL GAS PIPING DOWN TO SERVE KITCHEN.

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1600 N. Collins Blvd., Suite 1000 Richardson, Texas 75080
(972) 233-0400 AllianceArch.com

JAMES T. BARRON 83873 LICENSED ARCHITECT
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511 E. John Carpenter Fwy
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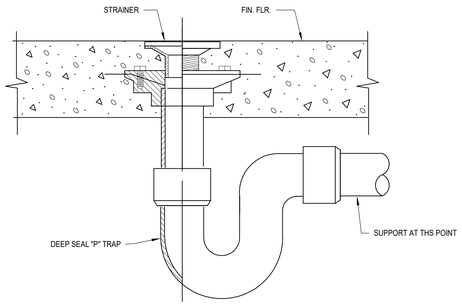


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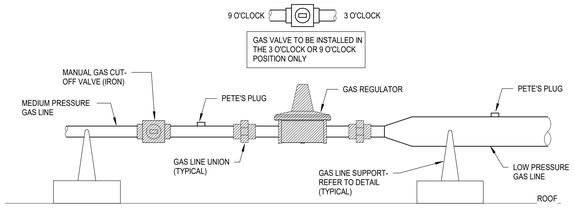
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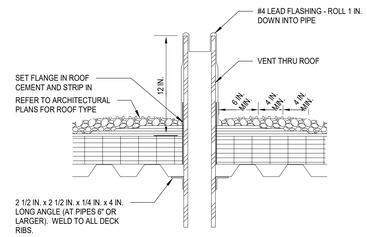
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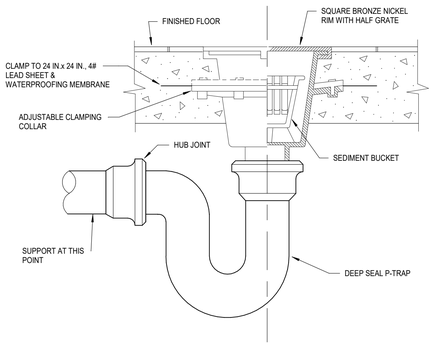
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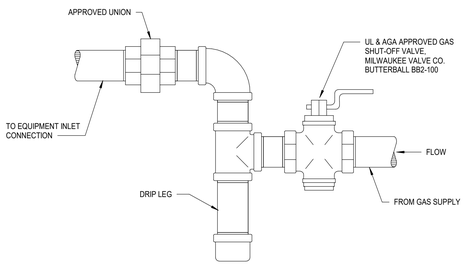
10 TYPICAL GAS EQUIPMENT REGULATOR DETAIL
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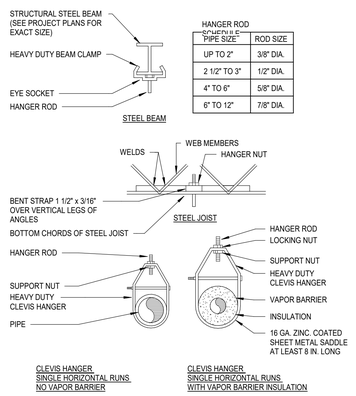
9 VENT THRU ROOF (VTR) DETAIL
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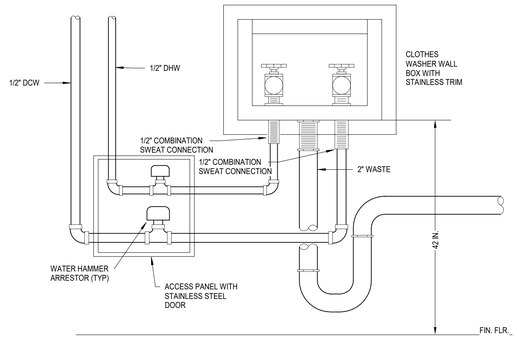
8 KITCHEN FLOOR SINK (FS-1) DETAIL
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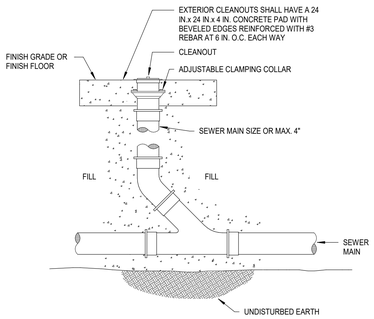
7 GAS CONNECTION DETAIL
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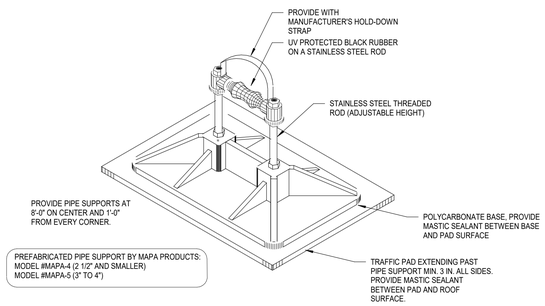
6 SUPPORT HANGERS DETAIL
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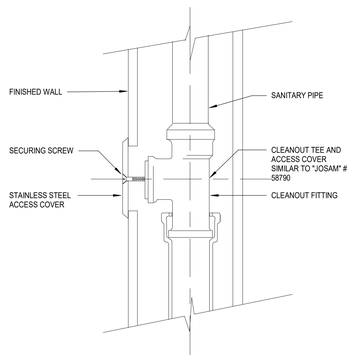
5 WASHING MACHINE BOX (WMB) DETAIL
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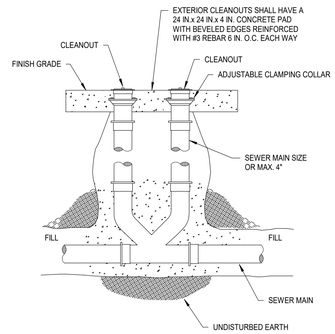
4 FLOOR CLEANOUT DETAIL
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3 ROOF PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE



2 WALL CLEANOUT DETAIL
SCALE: NOT TO SCALE



1 CLEANOUT - 2-WAY DETAIL
SCALE: NOT TO SCALE

PLUMBING DETAILS

DRAWING RECORD

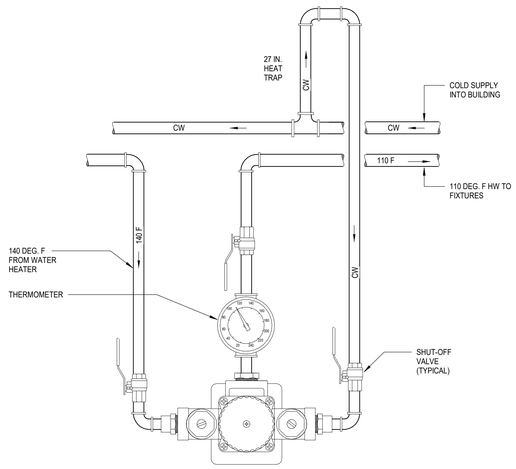
DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

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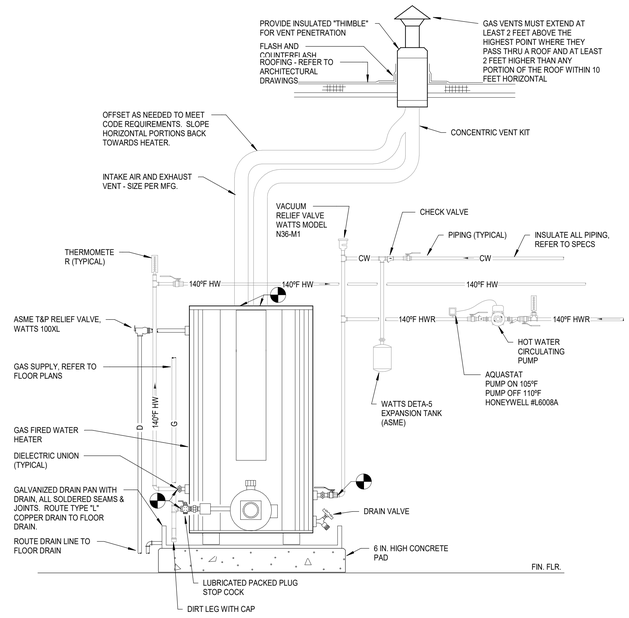
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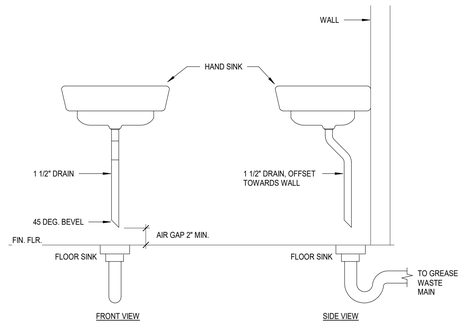
7 THERMOSTATIC MIXING VALVE

SCALE: NOT TO SCALE

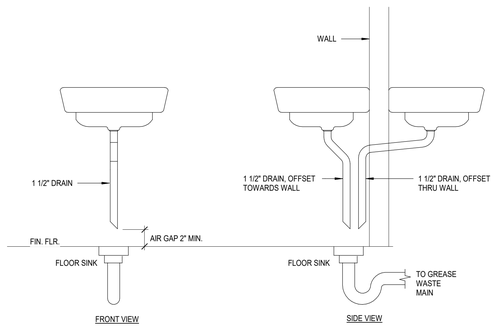


6 NEW GAS WATER HEATER (GWH-1) DETAIL

SCALE: NOT TO SCALE



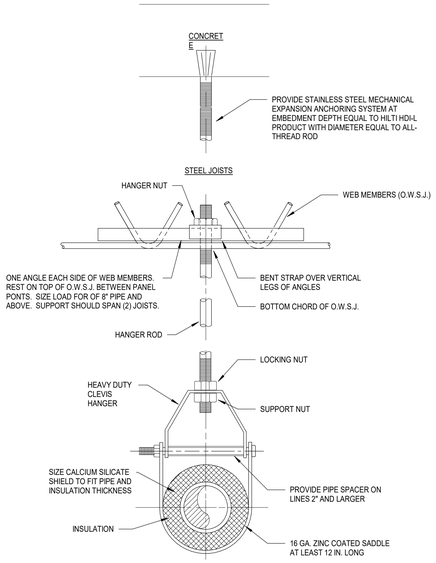
SINGLE HAND SINK TO INDIRECT WASTE RECEPTOR



BACK TO BACK HAND SINK TO INDIRECT WASTE RECEPTOR

5 KITCHEN HAND SINK INDIRECT DRAIN DETAIL

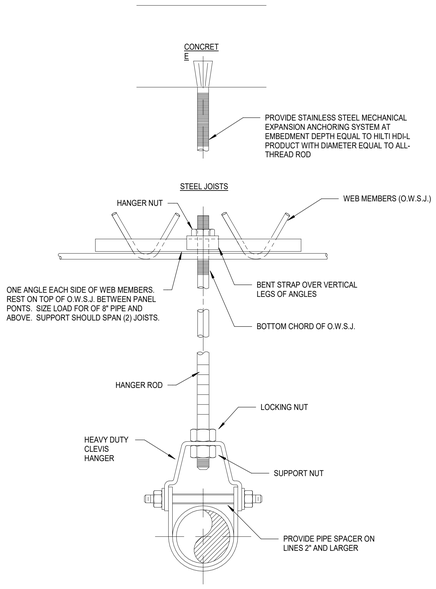
SCALE: NOT TO SCALE



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

4 SINGLE INSULATED PIPE SUPPORT DETAIL

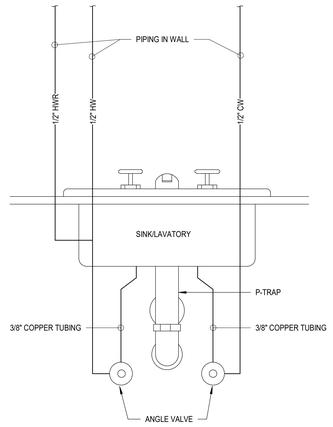
SCALE: NOT TO SCALE



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

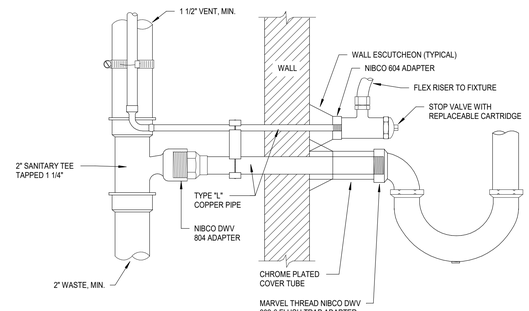
3 SINGLE PIPE SUPPORT DETAIL

SCALE: NOT TO SCALE



2 TYPICAL SINK-LAV PIPING DIAGRAM

SCALE: NOT TO SCALE



NOTES:
1. 1 1/4" PIPE REQUIRED FOR LAVATORIES.
2. 1 1/2" PIPE REQUIRED FOR SINKS.

1 FIXTURE CONNECTION DETAIL

SCALE: NOT TO SCALE

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

JAMES T. BARRON
83873
REGISTERED
11/16/2025

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B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

DALLAS INDEPENDENT SCHOOL DISTRICT
McKISSACK McKISSACK

Blair Elementary School

7720 Gayglen Dr. Dallas, TX 75228

PLUMBING DETAILS

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McKISSACK McKISSACK

B&H
511 E. John Carpenter Fwy
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BandHengineers.com
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Blair Elementary School

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PLUMBING DETAILS

SPECIFICATIONS

Notes:
1. 6" plain end inlet/outlet
2. Unit weight - w/ cast iron covers: 1,290 lbs. (for wet weight add 12,525 lbs.)
3. Maximum operating temperature: 150º F continuous
4. Capacities - Liquid: 1,500 gal.:
   Grease: 10,061 lbs. (1,379 gal.) @100GPM
   Grease: 9,446 lbs. (1,294 gal.) @200GPM
   Solids: 318 gal.
5. Satisfies Miami DERM 99% efficiency requirements; retaining the following capacities at 99% efficiency:
   9,897 lbs. (1,356 gal.) @100GPM
   8,093 lbs. (1,109 gal.) @200GPM
6. For gravity drainage applications only.
7. Do not use for pressure applications.
8. Cover placement allows full access to tank for proper maintenance.
9. Vent not required unless per local code.
10. Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping.
11. Integral air relief / Anti-siphon / Sampling access.
12. Adjustable cover adapters provide up to 4" of additional height.
13. Designed for below-grade, above-grade, indoor or outdoor installations.
14. Safety Star®, access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating).

ENGINEER SPECIFICATION GUIDE

Schier Great Basin™ grease interceptor model # GB-1500 shall be lifetime guaranteed and made in USA of seamless, molded polyethylene with minimum 7/16" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter and Safety Star® access restrictor built into each cover adapter. Interceptor shall be certified to ASME A112.14.3 (Type D) and CSA B481.1 as well as certified to IAPMO/ANSI Z1001-2021. Interceptor flow rate shall be 100 GPM or 200 GPM. Interceptor grease capacity shall be 10,061 lbs. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

CERTIFIED PERFORMANCE

Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

Type D certification does not require a flow control

Satisfies Miami DERM 99% efficiency requirements. Product labels are permanently attached to inside and outside of unit for easy viewing.

TOP VIEW
(COVERS REMOVED FOR CLARITY)

ISOMETRIC VIEW

SECTION A-A

SECTION B-B

MODEL NUMBER: GB-1500	**PART NUMBER:** 4085-001-01				
	DESCRIPTION: GB-1500 GREASE INTERCEPTOR 100 GPM / 200 GPM 6" PLAIN INLET/OUTLET, H-20 CAST IRON COVER				
DWG BY: T.ASAY	**DATE:** 12/13/2022	**REV:** B	**ECO:** 012623CS		

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SCHIER PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SCHIER PRODUCTS IS PROHIBITED.

6455 Woodland Dr
Shawnee, KS 66218
Tel: 913-951-3300
Fax: 913-951-3399
schierproducts.com

2 GREAT TRAP DETAIL
SCALE: NOT TO SCALE

B & H ENGINEERS				SHEET NO: 1 OF: 1	
				DESIGN: VP	CHECKED: JB
DATE: 5/23/2023	PROJECT NO: 5032.28	PROJECT: DISD Blair ES			
REVISED DATE:					

GREASE DRAINAGE, WASTE

BUILDING:

FIXTURE	QTY.	G.P.M. EA.	F.U. EA.	SUBTOTAL G.P.M.	SUBTOTAL F.U.
KITCHEN					
WORK OR PREP SINK	6		2		12
HAND SINK	3		1		3
3-COMPARTMET SINK			6		0
HUB DRAINS	1		5		5
MOP SINK	1		2		2
EMERGENCY FLOOR DRAINS	5		0		0
FLOOR SINKS	14		5		70
					0
					0
TOTALS =				0	92

BUILDING DRAIN SIZE (IN) =	4	F.U.(G.P.M.)=	42
VELOCITY (FEET / SEC) =		G.P.M.=	0
LIQUID LEVEL @ DESIGN FLOW, % FULL =		TOTAL G.P.M.=	**42**
COMMENTS:	BASED ON MANNING'S FORMULA OF n = .012 FOR CAST IRON PIPE.		

GREASE INTERCEPTOR SIZED FO 30 MINUTES RETENSION TIME:

42	GPM X	30	MINUTES	1260	GALLON GREASE INTERCEPTOR

SELECTION: 1500 GALLON

1 GREASE TRAP SIZING CALCULATIONS
SCALE: NOT TO SCALE

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PLUMBING ROUGH-IN SCHEDULE

ITEM NO.	DESCRIPTION	ROUGH-IN MINIMUMS WASTE	VENT	HW	CW	NOTES
WC-1	WATER CLOSET	4"	2"	-	1"	FV
L-1	LAVATORY	2"	2"	1/2"	1/2"	COUNTER MNT. T.A.S.
EWC-1	ELEC. WATER COOLER	2"	2"	-	1/2"	HI/LO FOUNTAIN T.A.S.
MS-1	MOP SINK	3"	2"	3/4"	3/4"	FLOOR MOUNTED
ECO	EXTERIOR CLEANOUT	SEE NOTE 1	SEE NOTE 1	-	-	-
FCO	FLOOR CLEANOUT	SEE NOTE 1	SEE NOTE 1	-	-	-
FD-1	FLOOR DRAIN	SEE NOTE 1	SEE NOTE 1	<varies>	<varies>	<varies>
WCO	WALL CLEANOUT	SEE NOTE 1	SEE NOTE 1	-	-	-
FCO	FLOOR CLEANOUT	SEE NOTE 1	SEE NOTE 1	-	-	-
	FLOOR SINK	SEE NOTE 1	SEE NOTE 1	-	-	-
HD-1	HUB DRAIN	SEE NOTE 1	SEE NOTE 1	-	-	-
FPWH-1	FREEZE PROOF WALL HYDRANT	-	-	3/4"	3/4"	-
WH-1	WALL HYDRANT	-	-	3/4"	3/4"	-
WMB-1	WASHING MACHINE BOX	2"	2"	1/2"	1/2"	-

NOTES:
1. SEE FLOOR PLANS FOR SIZES.

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOL	FIXTURE UNITS	CHAMBER LENGTH	SWEAT CONNECTION
A	1-11	9 5/8"	1/2"
B	12-32	11 3/4"	3/4"
C	33-60	14 11/16"	1"
D	61-113	12 3/8"	1"
E	114-154	15 3/8"	1"
F	155-330	17 3/8"	1"

GAS WATER HEATER SCHEDULE

ITEM NO.	GAS HEAT INPUT (BTU/H)	GPH RECOVERY RATE 100° F RISE	STORAGE CAPACITY (GAL)	STORED WATER TEMP	HOT / COLD CONNECTIONS	GAS CONNECTION	MIN. EFFICIENCY	MANUFACTURER / MODEL
GWH-1	199.0	232	90	140°F	1-1/2"	1/2"	80%	LOCHINVAR #SWA200N

THERMO. MIXING VALVE SCHEDULE

ITEM NO.	TEMP IN °F	TEMP OUT °F	MIN. FLOW (GPM)	MAX FLOW (GPM)	VALVE FINISH	THERMOMETER	UNION CONN.	PRESS DIFF.	MANUFACTURER / MODEL
TMV-1	140	105	0.5	12	RB	No	Yes	5.0	WATTS #LFMMV

LOCATION:
TMV-1 IS LOCATED AT ALL SINKS AND LAVATORIES. ONE TMV MAY SERVE TWO RESTROOM LAVATORIES.

GREASE TRAP SCHEDULE

ITEM NO.	CAPACITY (GAL)	GREASE CAPACITY (LBS)	LENGTH	WIDTH	INLET	OUTLET	MANUFACTURER / MODEL
GT-1	1,500	10,061	137"	73-3/4"	4"	4"	SCHIER GB-1500

NOTES:
PROVIDE WITH FCR2 RISER ACCESSORY.

PLUMBING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION	SEAT	FLUSH VALVE	ROUGH-INS	NOTES
WC-1 (T.A.S.)	WATER CLOSET, WALL MOUNTED, FLUSHOMETER, A.D.A./T.A.S. HEIGHT, 1.28 GALLONS PER FLUSH, VITREOUS CHINA, ELONGATED BOWL, WITH 1-1/2" TOP SPUD AND BOLT COVERS. KOHLER "KINGSTON" #K-4325.	ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CHECK HINGES. OLSONITE #95.	1.28 GAL. FLUSH CYCLE. MANUAL, EXPOSED, DIAPHRAGM TYPE, CHROME PLATED CLOSET FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL #111-1.28.	4" WASTE, 2" VENT, 1" CW.	MOUNT FLUSH VALVE OPERATING HANDLE ON ACCESSIBLE SIDE.

TYPE	FIXTURE DESCRIPTION	FAUCET	STRAINER	P-TRAP	SUPPLIES	CARRIER	ROUGH-INS	NOTES
L-1 (T.A.S.)	LAVATORY, WALL HUNG, VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET ON 4" CENTERS. HEIGHT OF LAVATORY SHALL MEET T.A.S. REQUIREMENTS. AMERICAN STANDARD "LUCERNE" #0355.012.	4" CENTERS, HARD WIRED AUTOMATIC, CERAMIC MIXING CARTRIDGE. MULTI-LAMINAR SPRAY, 4-9/16" POLISHED CHROME PLATED BRASS SPOUT. 0.5 GPM MAX FLOR RATE. SLOAN OPTIMA #ETF-600.	1-1/4" 17 GAUGE OFFSET WHEELCHAIR STRAINER, CHROME PLATED BRASS GRID DRAIN WITH ELBOW AND 17 GAUGE OFFSET TAILPIECE. MCGUIRE #155WC.	1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE #8872.	1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISER. MCGUIRE #2165LK.		2" WASTE, 2" VENT, 1/2" HOT & COLD WATER.	VERIFY ALL HEIGHT REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

TYPE	FIXTURE DESCRIPTION	P-TRAP	SUPPLIES	ROUGH-INS	CARRIER
EWC-1	SURFACE. DOUBLE HEIGHT, STAINLESS STEEL ELECTRIC WATER COOLER, SURFACE MOUNTING PLATE, IN-WALL CHILLER, FLEX-GUARD BUBBLERS, AUTOMATIC STREAM HEIGHT REGULATORS, AND BOTTLE FILLER STATION. ELKAY #LZWS-LRPBM28K.	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

TYPE	FIXTURE DESCRIPTION	FAUCET	ROUGH-INS	NOTES
MS-1	24" X 24" X 10" LESS SHELF MOLDED STONE MOP SERVICE BASIN 10" HIGH WALLS WITH NOT LESS THAN 1" WIDE SHOULDERS AND AN INTEGRALLY MOLDED SHELF 10-9/16" WIDE. FACTORY-INSTALLED DRAIN STAINLESS STEEL AND DESIGNED TO PROVIDE FOR A LEAD CAULK - FIAT MODEL #MSB-2424. HOSE AND HOSE BRACKET - FIAT MODEL #832-AA. MOP HANGER - FIAT MODEL #869-CC.	CHROME PLATED BRASS FAUCET WITH INTEGRAL STOPS, VACUUM BREAKER-SPOUT WITH BUCKET HOOK AND 3/4" HOSE THREAD OULET. VANDAL RESISTANT HANDLES, ADJUSTABLE TOP BRACE. CHICAGO #897-RCF.	3" WASTE, 2" VENT, 3/4" HOT AND COLD WATER.	VERIFY ALL HEIGHT REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

TYPE	FIXTURE DESCRIPTION	ROUGH-INS
ECO	EXTERIOR CLEANOUT, CAST IRON FLOOR CLEANOUT WITH THREADED ADJUSTABLE HOUSING, FERRULE WITH PLUG, TRACTOR TOP AND VANDAL PROOF. WATTS #CO-200-RX-4.	
FCO	FLOOR CLEANOUT, CAST IRON WITH THREADED ADJUSTABLE HOUSING, FERRULE WITH PLUG AND SATIN NICKEL BRONZE SECURED SCORIATED COVER. WATTS #CO-200-RX.	
FD-1	FLOOR DRAIN FOR TOILET ROOMS, AND GENERAL AREAS. CAST IRON BODY FLOOR DRAIN WITH 6" STANDARD SATIN NICKEL BRONZE ADJUSTABLE STRAINER, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET, TRAP PRIMER CONNECTION. WATTS #FD-1100-A6	<varies>
TP-1 (TRAP PRIMER)	PRECISION PLUMBING PRODUCTS #FVP-1VB AUTOMATIC FLUSH VALVE TRAP PRIMER. PROVIDE TRAP PRIMER TO ALL FD-1.	1/2" COLD WATER
WCO	WALL CLEANOUT, CAST IRON FERRULE WITH TAPERED BRONZE COUNTERSUNK PLUG WADE #W-8550-D AND 9" SQUARE STAINLESS STEEL SECURED SMOOTH ACCESS COVER WITH NICKEL BRONZE FRAME. WATTS #CO-380-RD.	
FCO	FLOOR CLEANOUT, CAST IRON WITH THREADED ADJUSTABLE HOUSING, FERRULE WITH PLUG AND SATIN NICKEL BRONZE SECURED SCORIATED COVER. WATTS #CO-200-RX.	
HD-1	FLOOR DRAIN WITH 4" ROUND NICKEL BRONZE FUNNEL. CAST IRON BODY FLOOR DRAIN WITH 6" STANDARD SATIN NICKEL BRONZE ADJUSTABLE STRAINER, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET, TRAP PRIMER CONNECTION. WATTS #FD-200-EF.	SEE FLOOR PLANS FOR SIZES.
FPWH-1	BOX TYPE, ENCLOSED "ANTI-SIPHON" FROST PROOF AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION. STAINLESS STEEL CASING, DUAL TEMP, POLISHED BRONZE HYDRANT FACE. WATTS #HY-700-12	3/4" COLD & HOT WATER
WH-1	BOX TYPE, ENCLOSED VARI-TEMP ECOLOTROL AUTOMATIC DRAINING WALL HYDRANT FOR THIN WALLS, FLUSH INSTALLATION. COPPER CASING, ALL BRONZE INTERIOR PARTS WITH 1/2 TURN CERAMIC DISC CARTRIDGE. ZURN #Z1327-EZ.	3/4" COLD & HOT WATER
WMB-1	WASHING MACHINE VALVE BOX, RECESSED TYPE WITH BALL VALVES. IPS #9701.	2" WASTE, 2" VENT, 1/2" COLD WATER
RPZ-1	REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY WITH STRAINER. SEE PLANS FOR SIZE. WATTS #LF909	SEE PLANS FOR SIZE.

* ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON.

* PROVIDE MCGUIRE "PROWRAP" INSULATION KITS ON ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE. ALL FIXTURES SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIRE.

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

STATE OF TEXAS
JAMES T. BARRON
83873
LICENSED
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PLUMBING SCHEDULES

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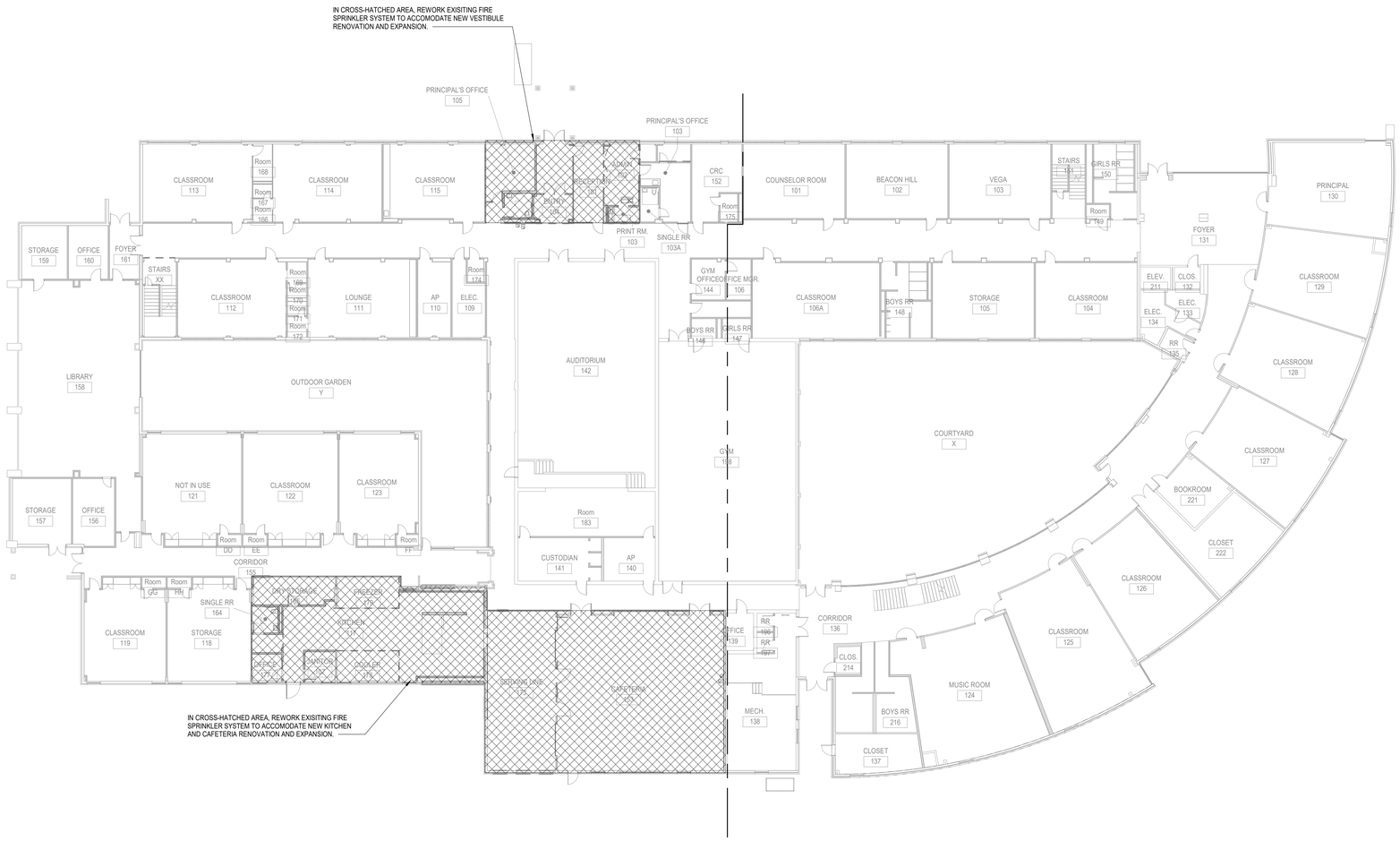
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FIRE PROTECTION GENERAL NOTES:

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.



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

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



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FIRE PROTECTION FIRST FLOOR PLAN

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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
DCR	DROP CEILING RECEPTACLE
DP	DISTRIBUTION PANEL
EG	EQUIPMENT GROUND
ELEC	ELECTRIC
E, EM	EMERGENCY
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
EX	EXISTING
F	FUSE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
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
PMR	PEDESTAL MOUNT RECEPTACLE
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
XFMR, XFR, T	TRANSFORMER

UNIVERSAL

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

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

WIRING

- HOMERUN
- NEUTRAL WIRE (SHORT STROKE)
- PHASE OR SWITHED 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: *NOT ALL SYMBOLS MAY 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 FIXTURES
- EMERGENCY WALL PACK
- EXTERIOR LIGHT-POLE MOUNTED (SINGLE HEAD)

SECURITY DEVICES

- SECURITY MOTION SENSOR
- SECURITY LONG RANGE BEAM DETECTOR
- SECURITY EXTERIOR LONG RANGE BEAM DETECTOR
- SECURITY KEYPAD
- EXPANSION MODULE WITH POWER SUPPLY

LIGHT FIXTURE LABELING

- UPPERCASE LETTER - INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE
- LOWERCASE LETTER - INDICATED SWITCHING GROUP
- NUMBER INDICATES CIRCUIT
- NL - INDICATES NIGHT LIGHT
- 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
- SMOKE DETECTOR-ELEVATOR RETURN
- SMOKE DETECTOR-DUCT TYPE
- SMOKE DETECTOR-SINGLE STATION
- FIRE ALARM-AUDIO ONLY
- FIRE ALARM STROBE-VISUAL ONLY
- FIRE ALARM COMBO-AUDIO/VISUAL
- FIRE ALARM PANEL
- FIRE ALARM PULL STATION
- FIREMAN PHONE
- FIRE ALARM SPEAKER
- DOOR HOLDERS
- FLOW SWITCH
- TAMPER SWITCH
- FIRE ALARM CONNECTION

ONE LINE/RISER DIAGRAM

- SWITCH
- FUSE
- MOLDED CASE CIRCUIT BREAKER
- DRAW OUT CIRCUIT BREAKER
- GFCI CIRCUIT BREAKER
- GFR CIRCUIT BREAKER
- AUTOMATIC TRANSFER SWITCH
- GROUND FAULT RELAY
- GROUND ROD
- DIGITAL METER
- TRANSFORMER

SWITCHES & MISC.

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

- SWITCH (LOW VOLTAGE U.O.N.)
- DIMMER SWITCH
- LINE VOLTAGE SWITCH
- THREE-WAY, FOUR-WAY SWITCH (REFER TO PLANS)
- THREE WAY DIMMER SWITCH
- MOTOR SWITCH
- PROJECTOR SWITCH
- PILOT LIGHT SWITCH
- WEATHER PROOF SWITCH
- WALL MOUNTED OCCUPANCY SENSOR
- WALL MOUNTED VACANCY SENSOR
- CEILING MOUNTED VACAMCU SENSOR - REFER TO SPECIFICATIONS FOR TYPE
- CEILING MOUNTED OCCUPANCY SENSOR - REFER TO SPECIFICATIONS FOR TYPE
- PHOTO CELL
- TIME CLOCK
- LIGHTING CONTACTOR
- DIMMER CONTROL PANEL
- VARIABLE FREQUENCY DRIVE
- 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
- ELECTRIC METER
- AUTOMATIC TRANSFER SWITCH
- MOTOR

OUTLETS & RECEPTACLES

- DUPLEX RECEPTACLE
- 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
- JUNCTION BOX
- 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
- WIRELESS ACCESS POINT (WAP)
- CARD READER

- FRAME RATING / TRIP RATING
- ELECTRONIC TRIP FUNCTIONS (LSI, LSIG, LSIA)
- BATTERY AND DISCONNECT
- KIRK KEY. SUBSCRIPT INDICATES CONNECTION GROUPING
- NEUTRAL AND GROUND BUS. ARC INDICATES N-G BOND

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 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. 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.

GENERAL NOTES

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.
6. ALL RECEPTACLES IN KITCHEN SHALL BE PROVIDED WITH GFCI PROTECTION.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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 SYSTEM (DESIGN/BUILD SYSTEM) (NEW PA & VOICE EVAC. 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. CONTRACTOR SHALL COMMISSION A LICENSED FIRE ALARM CONTRACTOR TO DESIGN, INSTALL AND TEST THE FIRE ALARM SYSTEM TO MEET ALL APPLICABLE NATIONAL, STATE, LOCAL CODES, ADA, AND NFPA STANDARD 72. AFTER APPROVED AND STAMPED BY THE FIRE MARSHAL, CONTRACTOR SHALL PROVIDE DETAILED FIRE ALARM INSTALLATION DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN. DRAWINGS MUST BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO PURCHASE OR INSTALLATION OF FIRE ALARM SYSTEM.
4. THE COST OF ANY RECEPTACLES REQUIRED FOR POWER SUPPLIES REQUIRED BY THE SYSTEM DESIGNER SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR.

KEY CODES

NEC - 2023
IECC - 2021

LAURA COWLEY IS RESPONSIBLE FOR CHANGES SINCE THE PREVIOUS 95% STAMPED PERMIT DRAWINGS.

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

STATE OF TEXAS — LAURA COWLEY — 121809 — LICENSED PROFESSIONAL ENGINEER
11/16/2025

BH&
511 E John Carpenter Fwy Suite 250 Irving, TX 75062 Bandhengineers.com Registration No. 9102

DALLAS 1ST BOND2020 — OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

DALLAS INDEPENDENT SCHOOL DISTRICT
McKISSACK McKISSACK

Blair Elementary School

7720 Gayglen Dr. Dallas, TX 75228

ELECTRICAL COVER SHEET

DRAWING RECORD

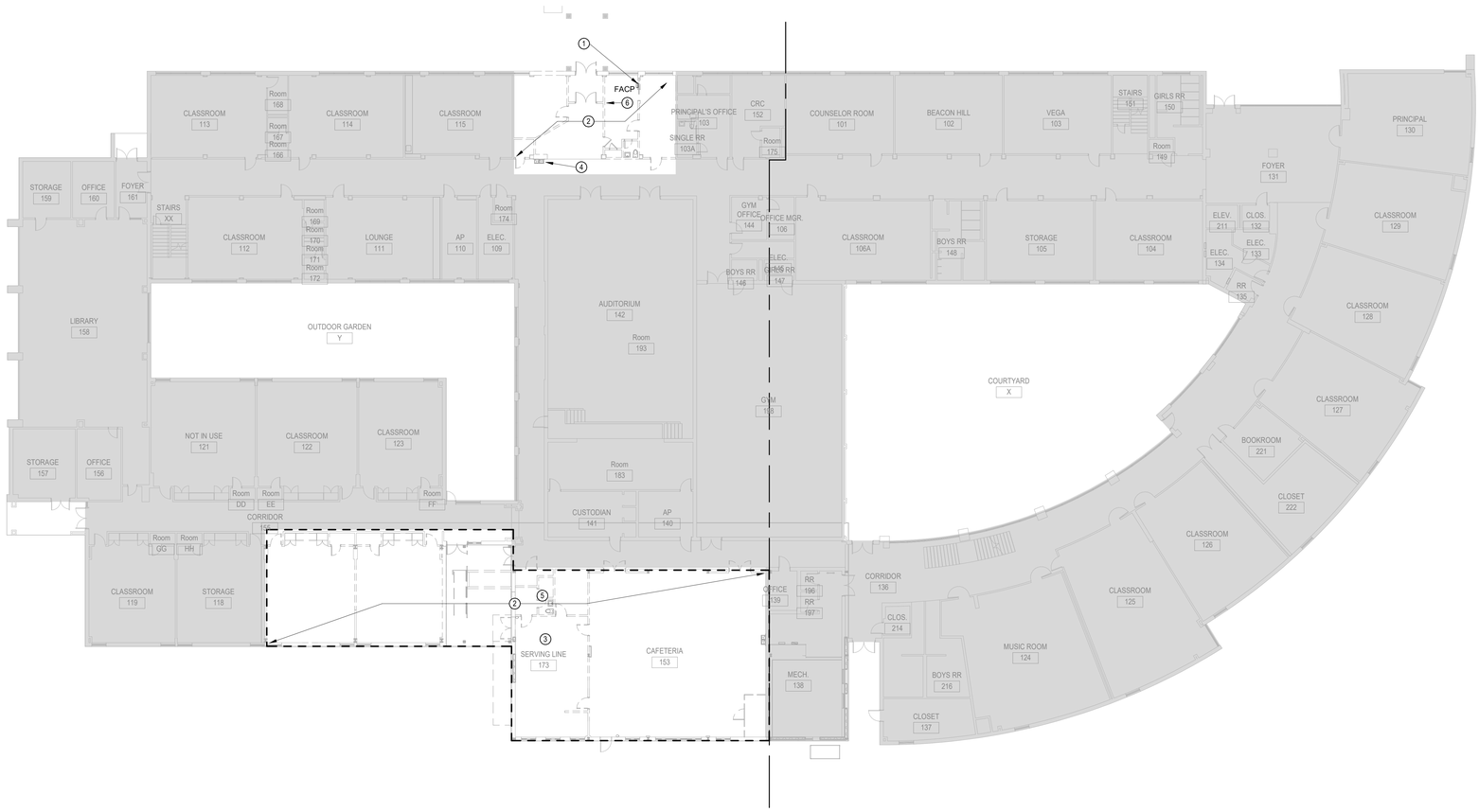
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1 ELECTRICAL FIRST FLOOR DEMO PLAN

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

TRUE NORTH / PLAN NORTH

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 RECONNECETED 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, P/A, 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. DISCONNECT AND REMOVE ALL EXISTING WALL PACKS. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE PANEL.

LEGEND

———	EXISTING
– – – –	DEMOLITION

NOTES BY SYMBOL:

1	APPROXIMATE LOCATION OF EXISTING FACP. REMOVE ALL FIRE ALARM SYSTEM AND ASSOCIATED DEVICES.
2	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND LIGHTING CONTROLS IN THE RENOVATED AREA. MAKE CIRCUIT AVAILABLE FOR REUSE. REMOVE WIRE AND CONDUIT ABOVE CEILING BACK TO ACCESIBLE JUNCTION BOX FEEDING THE ROOM IN THE CORRIDOR. REFER TO NEW LIGHTING PLANS FOR FIXTURE AND SWITCH LOCATIONS.
3	DISCONNECT AND REMOVE ALL CURRENT ELECTRICAL EQUIPMENT ON KITCHEN AND CAFETERIA INCLUDING POWER, TECHNOLOGY, LIGHTING AND FA SYSTEM.
4	DISCONNECT EXISTING POWER FOR WATER COOLER. PREP EXISTING CIRCUIT FOR REUSE.
5	DISCONNECT AND REMOVE EXISTING KITCHEN PANEL. DISCONNECT AND REMOVE CONDUCTOR AND RACEWAY BACK TO SOURCE PANEL.
6	RELOCATE EXISTING PA HEAD-END PER DISD.

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER
11/16/2025

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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ELECTRICAL FIRST FLOOR DEMOLITION PLAN

DRAWING RECORD

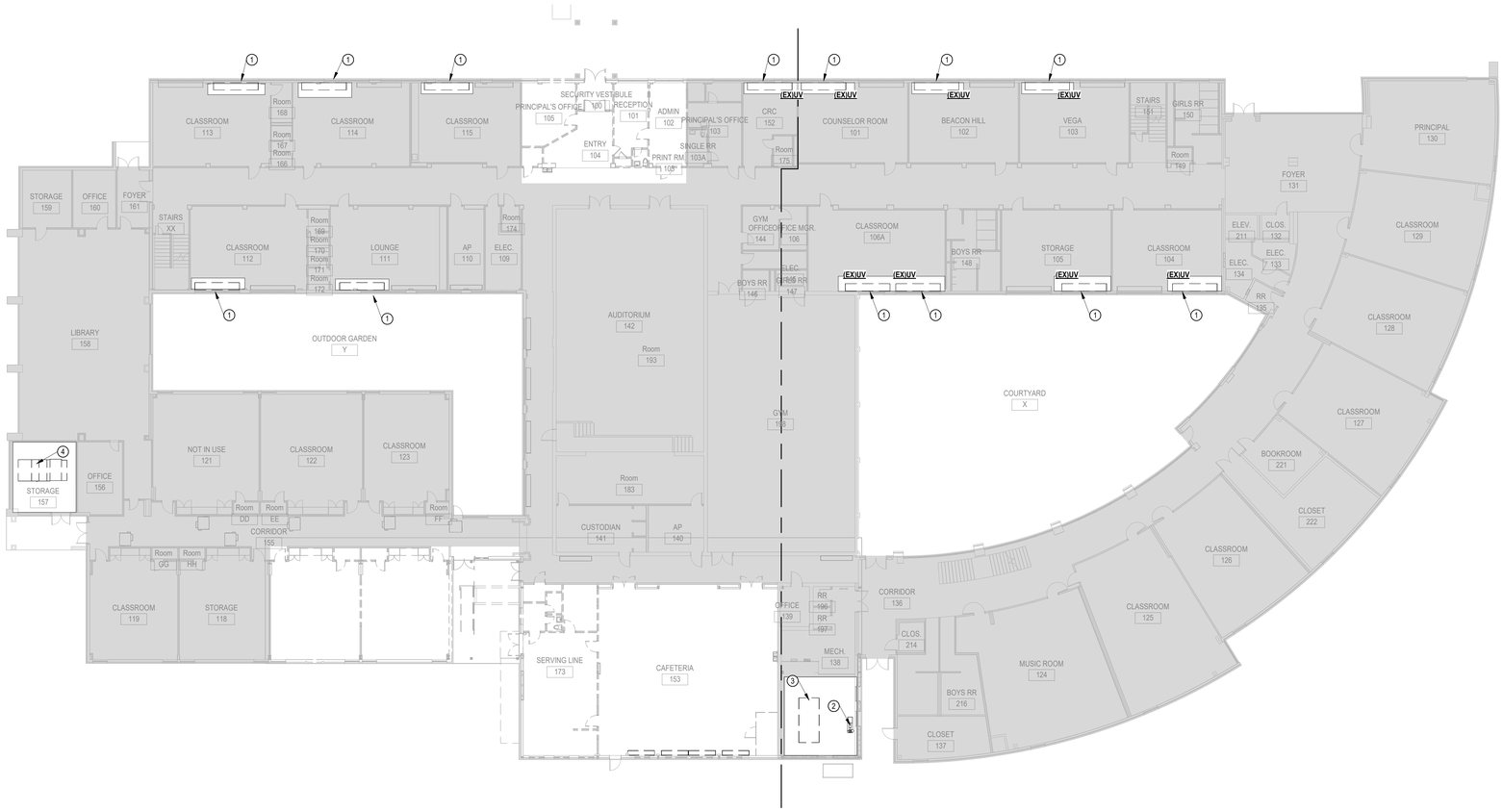
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1 ELECTRICAL DEMOLITION (HVAC) FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

TRUE NORTH PLAN NORTH

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 RECONNECETED 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, P/A, 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. DISCONNECT AND REMOVE ALL EXISTING WALL PACKS. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE PANEL.

LEGEND

EXISTING

DEMOLITION

NOTES BY SYMBOL:

1	DISCONNECT ELECTRICAL CONNECTION TO EXISTING UV. PREP CIRCUIT FOR REUSE.
2	DISCONNECT ELECTRICAL CONNECTION TO EXISTING CONDENSATE PUMP. DISCONNECT AND REMOVE CONDUCTOR AND RACEWAY BACK TO SOURCE PANEL.
3	DISCONNECT ELECTRICAL CONNECTION TO EXISTING STEAM BOILER. DISCONNECT AND REMOVE CONDUCTOR AND RACEWAY BACK TO SOURCE PANEL.
4	DISCONNECT ELECTRICAL CONNECTION AND REMOVE ELECTRICAL DEVICES ASSOCIATED TO EXISTING AHU. PREP CIRCUIT FOR REUSE.

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER

11/16/2025

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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Blair Elementary School

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ELECTRICAL DEMOLITION (HVAC) FIRST FLOOR PLAN

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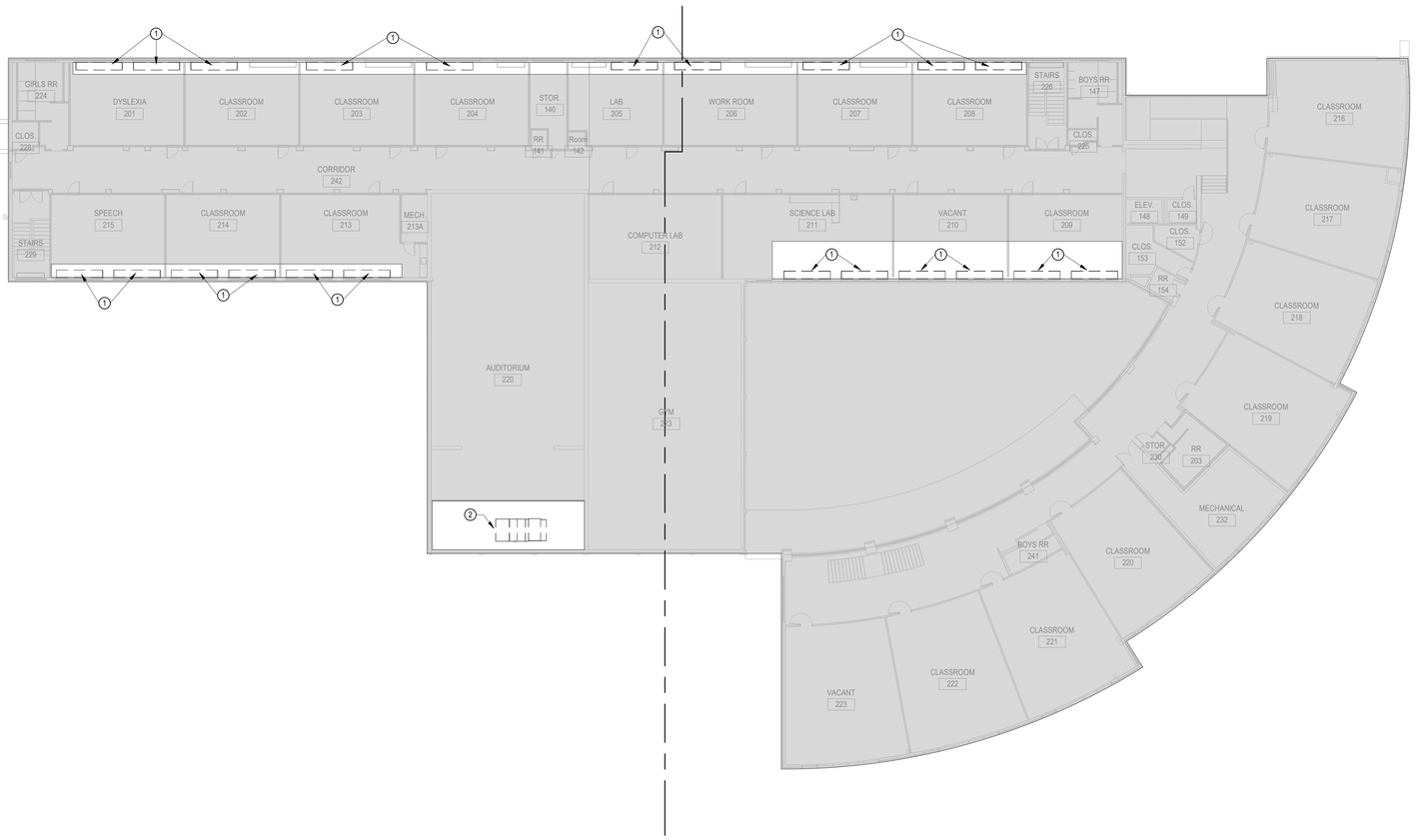
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1 ELECTRICAL DEMOLITION (HVAC) SECOND FLOOR PLAN

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

TRUE NORTH PLAN NORTH

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 RECONNECETED 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, P/A, 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. DISCONNECT AND REMOVE ALL EXISTING WALL PACKS. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE PANEL.

LEGEND

———	EXISTING
– – – –	DEMOLITION

NOTES BY SYMBOL:

1	DISCONNECT ELECTRICAL CONNECTION TO EXISTING UV. PREP CIRCUIT FOR REUSE.
2	DISCONNECT ELECTRICAL CONNECTION AND REMOVE ELECTRICAL DEVICES ASSOCIATED TO EXISTING AHU. PREP CIRCUIT FOR REUSE.

LAURA COWLEY IS RESPONSIBLE FOR CHANGES SINCE THE PREVIOUS 95% STAMPED PERMIT DRAWINGS.

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

STATE OF TEXAS
LAURA COWLEY
121809
REGISTERED
PROFESSIONAL ENGINEER
11/16/2025

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DALLAS INDEPENDENT SCHOOL DISTRICT
McKISSACK McKISSACK

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

Blair Elementary School

7720 Gayglen Dr. Dallas, TX 75228

ELECTRICAL DEMOLITION (HVAC) SECOND FLOOR PLAN

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1 ELECTRICAL DEMOLITION (HVAC) ROOF PLAN
SCALE: 1/16" = 1'-0"

TRUE NORTH

PLAN NORTH

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 RECONNECETED 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, P/A, 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. DISCONNECT AND REMOVE ALL EXISTING WALL PACKS. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE PANEL.

LEGEND

———	EXISTING
– – – –	DEMOLITION

NOTES BY SYMBOL:

1	BID ALTERNATE: DISCONNECT ELECTRICAL CONNECTION AND REMOVE ELECTRICAL DEVICES ASSOCIATED TO EXISTING RTU. PREP CIRCUIT FOR REUSE.
2	DISCONNECT ELECTRICAL CONNECTION AND REMOVE ELECTRICAL DEVICES ASSOCIATED TO EXISTING AHU. PREP CIRCUIT FOR REUSE.
3	BID ALTERNATE: DISCONNECT ELECTRICAL CONNECTION AND REMOVE ELECTRICAL DEVICES ASSOCIATED TO EXISTING RTU. PREP CIRCUIT FOR REUSE.

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER

11/16/2025

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B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandh-engineers.com
Registration No. 9102

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Blair Elementary School

7720 Gayglen Dr. Dallas, TX 75228

ELECTRICAL DEMOLITION (HVAC) ROOF PLAN

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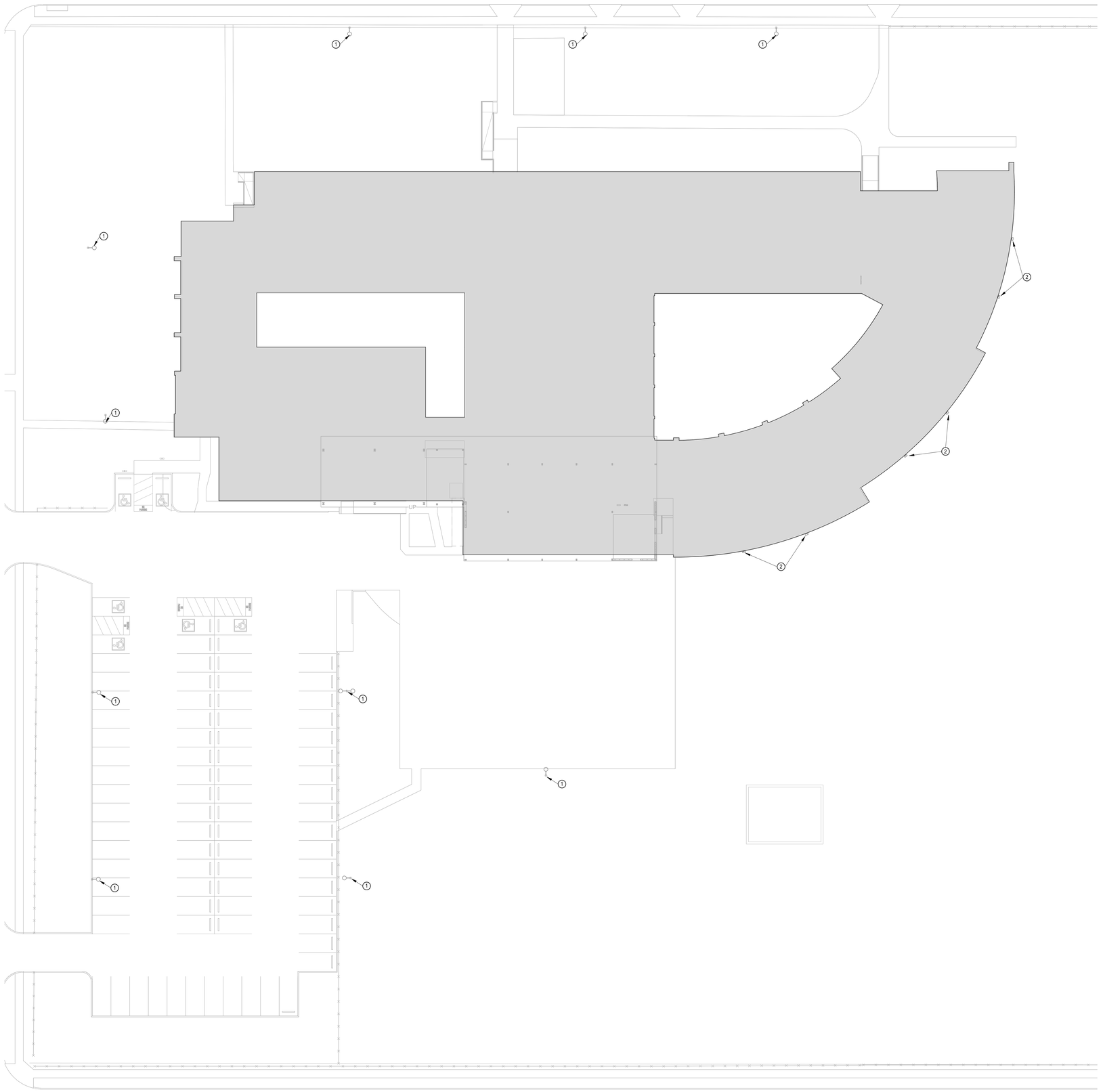
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1 SITE DEMOLITION PLAN
SCALE: 1" = 20'-0"

TRUE NORTH
PLAN NORTH

NOTES BY SYMBOL:

1	DEMOLISH EXISTING LIGHTING FIXTURE AND POLE. PREPARE EXISTING CIRCUIT FOR REUSE.
2	DISCONNECT AND REMOVE EXISTING WALL PACK. PREP EXISTING CIRCUIT FOR REUSE.

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

STATE OF TEXAS
LAURA COWLEY
121809
REGISTERED
PROFESSIONAL ENGINEER
11/16/2025

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B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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McKISSACK McKISSACK

Blair Elementary School

7720 Gayglen Dr. Dallas, TX 75228

SITE DEMOLITION PLAN

DRAWING RECORD

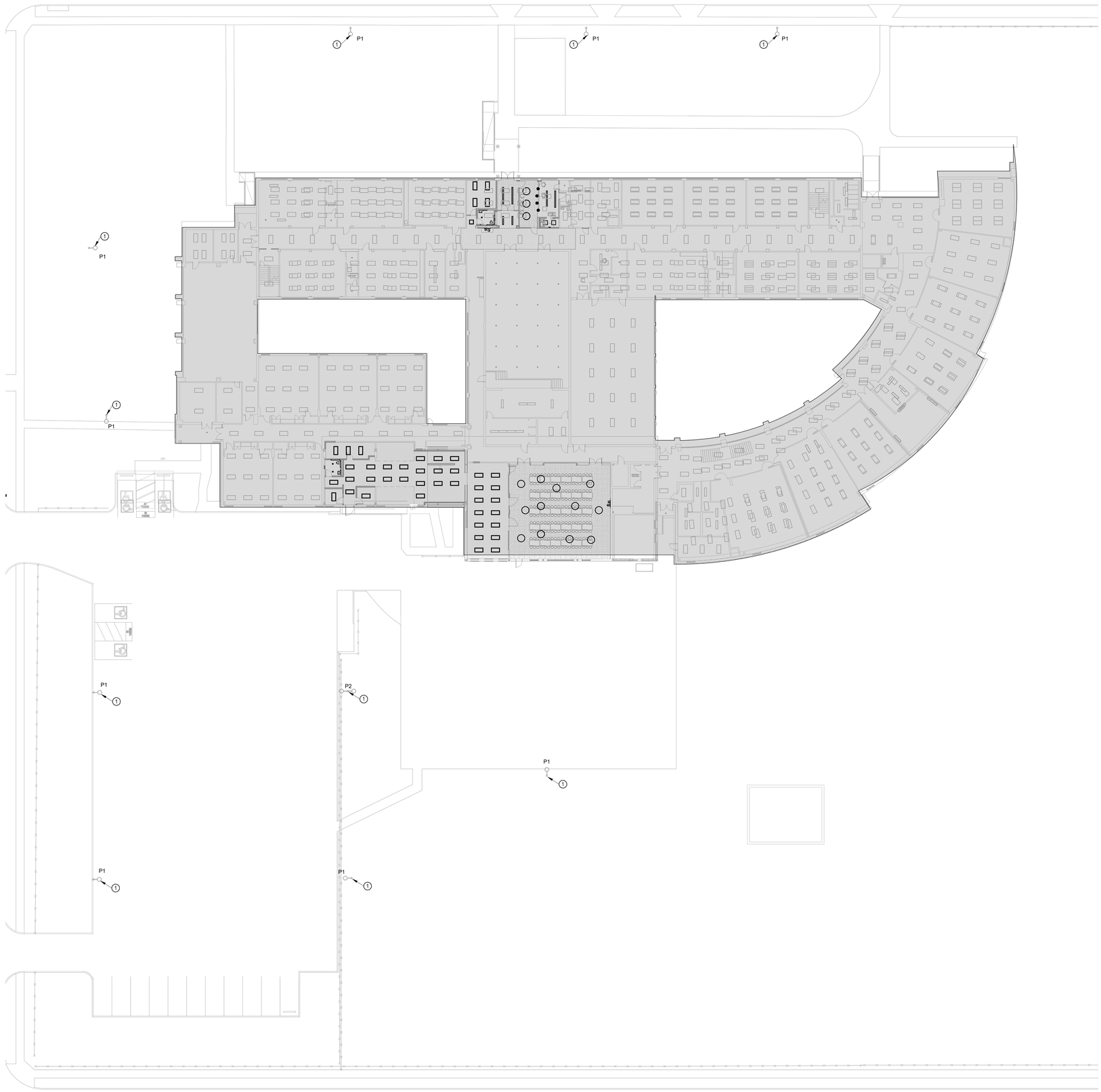
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1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

TRUE NORTH
PLAN NORTH

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 NEC 2023 AND ALL LOCAL BUILDING CODES.
4. COORDINATE ALL SITE WORK WITH CIVIL PLANS.

NOTES BY SYMBOL:

1	PROVIDE NEW LED FIXTURE AND POLE. CONNECT TO EXISTING CIRCUIT MADE AVAILABLE IN DEMOLITION. FEED THROUGH NEW TORK EWI1018 FOR CONTROLS. COORDINATE SCHEDULE WITH OWNER. NOTIFY ENGINEER OF ANY DISCREPANCIES.

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER

11/16/2025

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

DALLAS INDEPENDENT SCHOOL DISTRICT
McKISSACK McKISSACK

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7720 Gayglen Dr. Dallas, TX 75228

ELECTRICAL SITE PLAN

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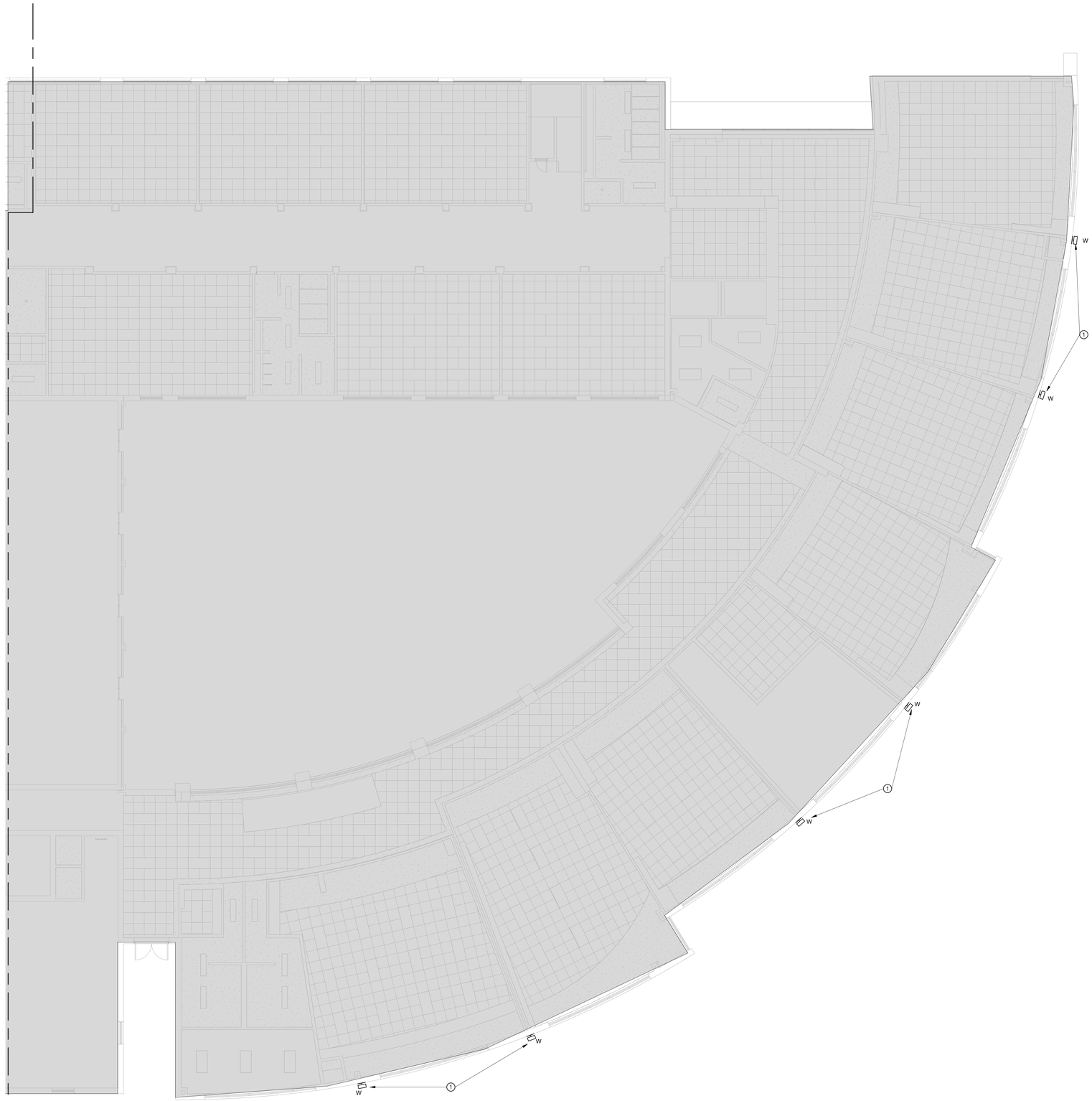
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1 FIRST FLOOR LIGHTING PLAN - AREA A
SCALE: 1/8" = 1'-0"

TRUE NORTH PLAN NORTH

LIGHTING GENERAL NOTES:

1. REFER TO E4.02 FOR LIGHTING FIXTURE SCHEDULE.
2. COORDINATE MOUNTING HEIGHT OF ALL FIXTURES WITH ARCHITECTURAL CEILING ELEVATIONS PRIOR TO ROUGH-IN.
3. COORDINATE LOCATION OF ALL LIGHTING CONTROL DEVICES WITH DOOR SWINGS AND MECHANICAL CONTROL DEVICES.
4. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM. ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS.
5. SUPPORT SURFACE MOUNTED LUMINAIRES FROM THE BUILDING STRUCTURE WITH A MINIMUM OF TWO (2) 1/4 INCH THREADED RODS PER FIXTURE. USE 1-1/2 INCH X 1-1/2 INCH STEEL FRAMING CHANNEL WHERE REQUIRED TO SPAN JOISTS AND OTHERWISE FACILITATE STRUCTURAL SUPPORT.
6. MOUNT RECESSED LUMINAIRES IN THE CENTER OF A CEILING TILE OR AS SHOWN ON THE DRAWINGS. PROVIDE SUPPORT FOR RECESSED LUMINAIRES BY MEANS OF BAR HANGERS EXTENDED ACROSS THE MAIN CEILING SUPPORT MEMBERS AND ALSO SUPPORTED FROM THE BUILDING STRUCTURE.
7. RUN FIXTURE WHIPS (FLEX CONDUIT/METAL CLAD CABLE) FROM A JUNCTION BOX TO EACH FIXTURE (NOT TO EXCEED FOUR FIXTURES PER JUNCTION BOX) ACCESS PLATE. FIXTURE WHIPS BETWEEN LIGHT FIXTURES ARE NOT TO BE ACCEPTED. WHIPS NOT TO EXCEED 6'-0" IN TOTAL LENGTH.
8. LOCATE ALL REMOTE DRIVERS ABOVE THE CEILING ABOVE EACH LUMINAIRE OR IN AN ADJACENT ROOM WITH A LOW CEILING FOR EASY ACCESS. MOUNT DRIVERS ON RUBBER INSULATORS.
9. MOVE ANY LUMINAIRE UP TO 6 FEET IN ANY DIRECTION AS DIRECTED BY ARCHITECT AT NO ADDITIONAL COST.

NOTES BY SYMBOL:

1	CONNECT NEW FIXTURE W TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. FEED THROUGH NEW TORK EW101B FOR CONTROLS. COORDINATE SCHEDULE WITH OWNER.

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER

11/16/2025

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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McKISSACK McKISSACK

Blair Elementary School

7720 Gaylen Dr. Dallas, TX 75228

FIRST FLOOR LIGHTING PLAN - AREA A

DRAWING RECORD

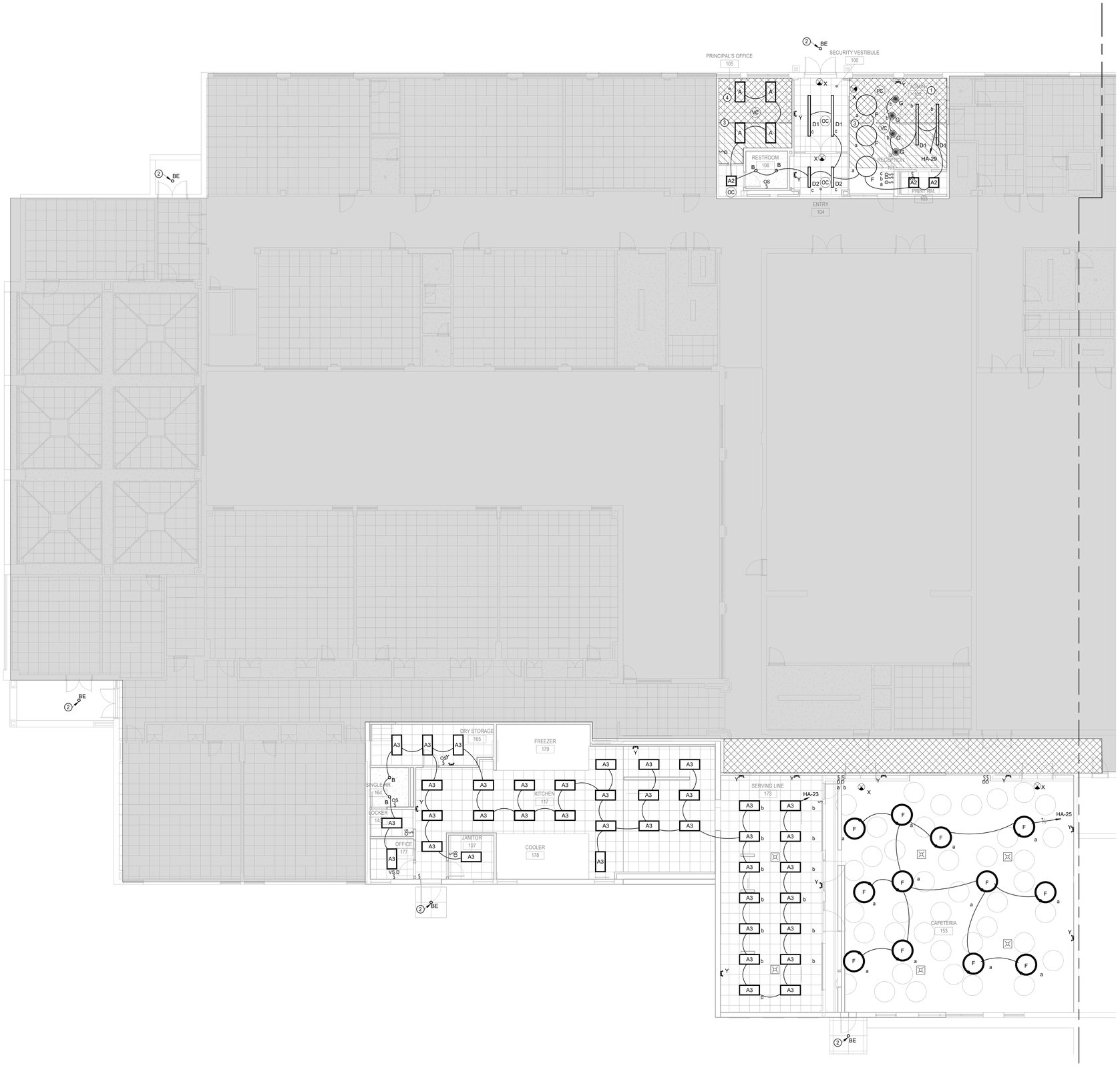
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1 FIRST FLOOR LIGHTING PLAN - AREA B

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

PLAN NORTH PLAN NORTH

LIGHTING GENERAL NOTES:

1. REFER TO E4.02 FOR LIGHTING FIXTURE SCHEDULE.
2. COORDINATE MOUNTING HEIGHT OF ALL FIXTURES WITH ARCHITECTURAL CEILING ELEVATIONS PRIOR TO ROUGH-IN.
3. COORDINATE LOCATION OF ALL LIGHTING CONTROL DEVICES WITH DOOR SWINGS AND MECHANICAL CONTROL DEVICES.
4. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM. ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS.
5. SUPPORT SURFACE MOUNTED LUMINAIRES FROM THE BUILDING STRUCTURE WITH A MINIMUM OF TWO (2) 1/4 INCH THREADED RODS PER FIXTURE. USE 1-1/2 INCH X 1-1/2 INCH STEEL FRAMING CHANNEL WHERE REQUIRED TO SPAN JOISTS AND OTHERWISE FACILITATE STRUCTURAL SUPPORT.
6. MOUNT RECESSED LUMINAIRES IN THE CENTER OF A CEILING TILE OR AS SHOWN ON THE DRAWINGS. PROVIDE SUPPORT FOR RECESSED LUMINAIRES BY MEANS OF BAR HANGERS EXTENDED ACROSS THE MAIN CEILING SUPPORT MEMBERS AND ALSO SUPPORTED FROM THE BUILDING STRUCTURE.
7. RUN FIXTURE WHIPS (FLEX CONDUIT/METAL CLAD CABLE) FROM A JUNCTION BOX TO EACH FIXTURE (NOT TO EXCEED FOUR FIXTURES PER JUNCTION BOX) ACCESS PLATE. FIXTURE WHIPS BETWEEN LIGHT FIXTURES ARE NOT TO BE ACCEPTED. WHIPS NOT TO EXCEED 6'-0" IN TOTAL LENGTH.
8. LOCATE ALL REMOTE DRIVERS ABOVE THE CEILING ABOVE EACH LUMINAIRE OR IN AN ADJACENT ROOM WITH A LOW CEILING FOR EASY ACCESS. MOUNT DRIVERS ON RUBBER INSULATORS.
9. MOVE ANY LUMINAIRE UP TO 6 FEET IN ANY DIRECTION AS DIRECTED BY ARCHITECT AT NO ADDITIONAL COST.

IECC DAYLIGHT ZONES:

PRIMARY ZONE

SECONDARY ZONE

NOTES BY SYMBOL:

1	CONNECT CIRCUIT TO EXISTING LIGHTING CIRCUIT MADE AVAILBLE AFTER DEMOLITION. VERIFY MAXIMUM OF16A ON CIRCUIT AFTER ADDITION OF NEW LIGHTINGS.
2	CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT. FEED THROUGH NEW TORK EW1018 FOR CONTROLS. COORDINATE SCHEDULE WITH OWNER.
3	REFER TO POWER PLANS FOR CONTROLLED RECEPTACLES.
4	EXEMPT FROM DAYLIGHT CONTROLS REQUIREMENTS.

LAURA COWLEY IS RESPONSIBLE FOR CHANGES SINCE THE PREVIOUS 95% STAMPED PERMIT DRAWINGS.

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER
11/16/2025

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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FIRST FLOOR LIGHTING PLAN - AREA B

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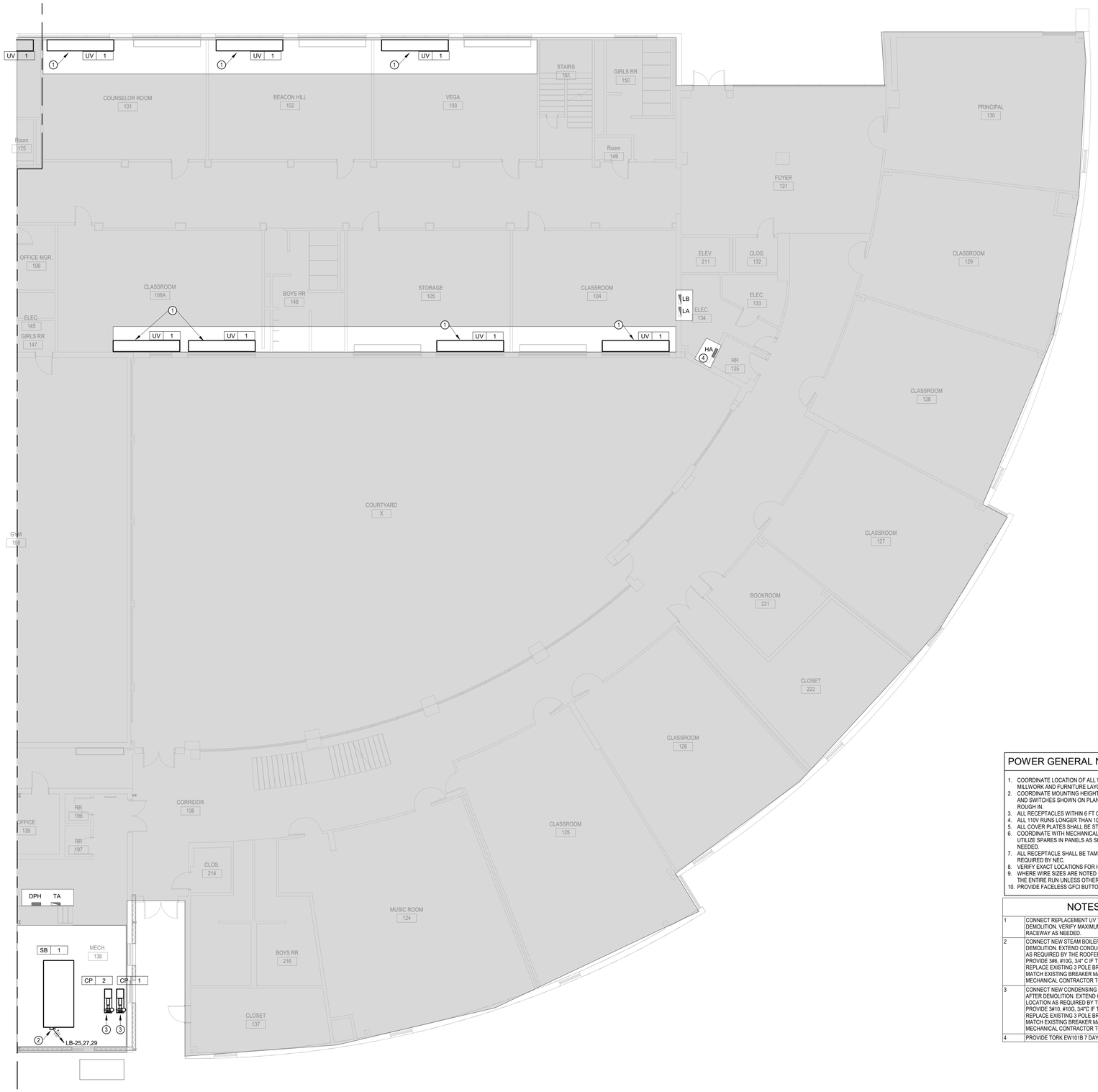
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POWER GENERAL NOTES:

1. COORDINATE LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL MILLWORK AND FURNITURE LAYOUT PRIOR TO ROUGH-IN.
2. COORDINATE MOUNTING HEIGHTS AND LOCATION OF ALL RECEPTACLE OUTLETS AND SWITCHES SHOWN ON PLAN WITH ARCHITECT DRAWINGS PRIOR TO BEGIN ROUGH IN.
3. ALL RECEPTACLES WITHIN 6 FT OF SINK SHALL BE GFCI TYPE.
4. ALL 110V RUNS LONGER THAN 100 FT. SHALL BE #10.
5. ALL COVER PLATES SHALL BE STAINLESS STEEL.
6. COORDINATE WITH MECHANICAL DRAWINGS FOR ALL CONTROLS REQUIRED AND UTILIZE SPARES IN PANELS AS SHOWN FOR CONNECTING HVAC CONTROLS AS NEEDED.
7. ALL RECEPTACLE SHALL BE TAMPER RESISTANT TYPE RECEPTACLES AS REQUIRED BY NEC.
8. VERIFY EXACT LOCATIONS FOR HVAC EQUIPMENT WITH MECAHNICAL DRAWINGS.
9. WHERE WIRE SIZES ARE NOTED ON DRAWINGS, THAT SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
10. PROVIDE FACELESS GFCI BUTTON FOR ALL INACCESSIBLE DEVICES.

NOTES BY SYMBOL:

1	CONNECT REPLACEMENT UV TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. VERIFY MAXIMUM OF 16A ON CIRCUIT. EXTEND CONDUCTOR AND RACEWAY AS NEEDED.
2	CONNECT NEW STEAM BOILER TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. EXTEND CONDUCTORS AND RACEWAYS TO NEW RAISED LOCATION AS REQUIRED BY THE ROOFER AT NO COST TO THE OWNER. PROVIDE 3#6, #10G, 3/4" C IF THE EXISTING CIRCUIT IS NOT COMPATIBLE. REPLACE EXISTING 3 POLE BREAKER WITH A NEW 60A 3P CIRCUIT BREAKER. MATCH EXISTING BREAKER MANUFACTURER AND AIC RATING. COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.
3	CONNECT NEW CONDENSING PUMP TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. EXTEND CONDUCTORS AND RACEWAYS TO NEW RAISED LOCATION AS REQUIRED BY THE ROOFER AT NO COST TO THE OWNER. PROVIDE 3#10, #10G, 3/4"C IF THE EXISTING CIRCUIT IS NOT COMPATIBLE. REPLACE EXISTING 3 POLE BREAKER WITH A NEW 30A 3P CIRCUIT BREAKER. MATCH EXISTING BREAKER MANUFACTURER AND AIC RATING. COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.
4	PROVIDE TORK EW101B 7 DAY TIME SWITCH FOR EXTERIOR LIGHTING.

1 FIRST FLOOR POWER PLAN - AREA A

SCALE: NOT TO SCALE

PLAN NORTH PLAN NORTH

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER

11/16/2025

511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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FIRST FLOOR POWER PLAN - AREA A

DRAWING RECORD

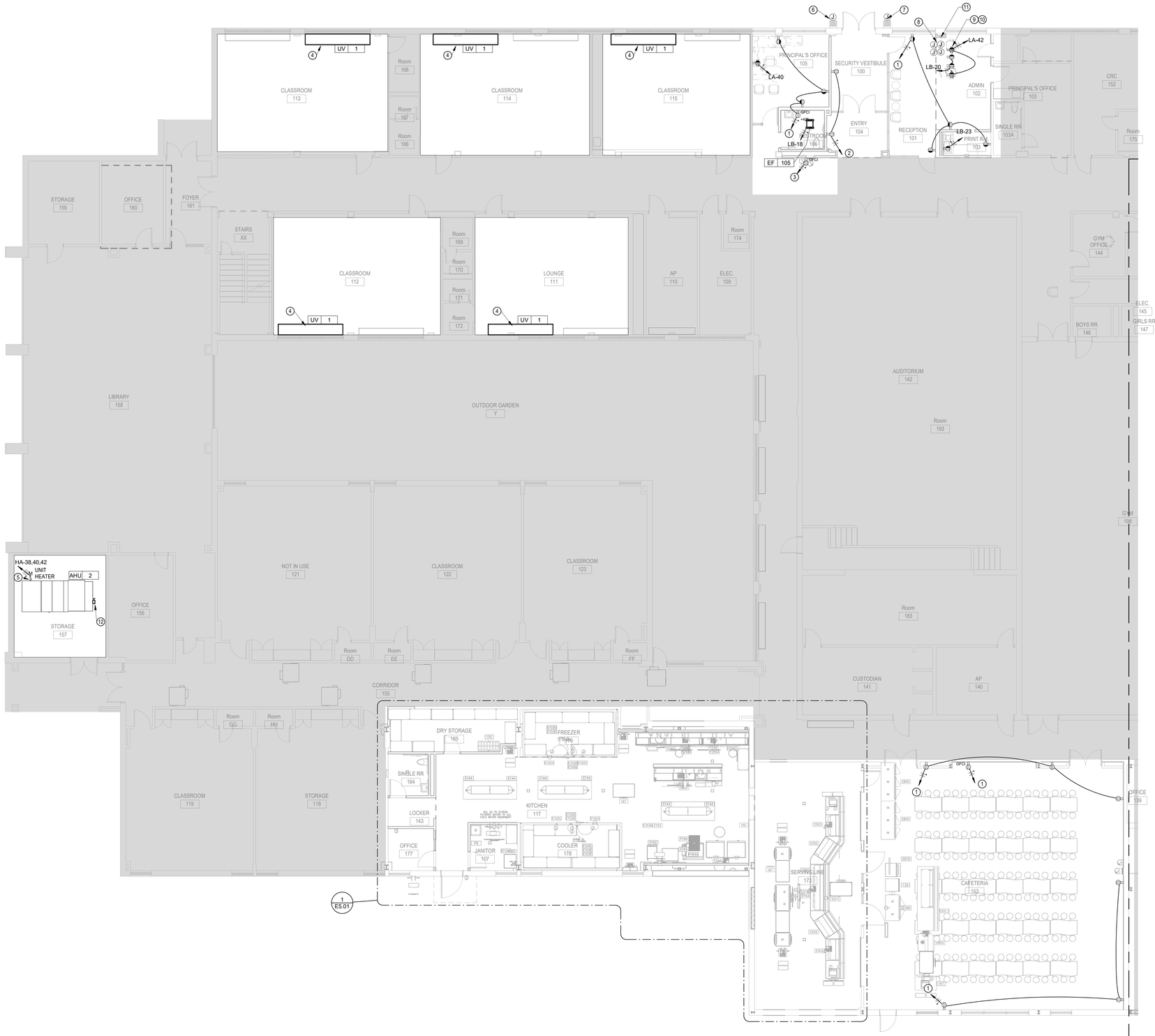
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1 FIRST FLOOR POWER PLAN - AREA B
SCALE: NOT TO SCALE

PLAN NORTH

PLAN NORTH

POWER GENERAL NOTES:

1. COORDINATE LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL MILLWORK AND FURNITURE LAYOUT PRIOR TO ROUGH-IN.
2. COORDINATE MOUNTING HEIGHTS AND LOCATION OF ALL RECEPTACLE OUTLETS AND SWITCHES SHOWN ON PLAN WITH ARCHITECT DRAWINGS PRIOR TO BEGIN ROUGH IN.
3. ALL RECEPTACLES WITHIN 6 FT OF SINK SHALL BE GFCI TYPE.
4. ALL 110V RUNS LONGER THAN 100 FT. SHALL BE #10.
5. ALL COVER PLATES SHALL BE STAINLESS STEEL.
6. COORDINATE WITH MECHANICAL DRAWINGS FOR ALL CONTROLS REQUIRED AND UTILIZE SPARES IN PANELS AS SHOWN FOR CONNECTING HVAC CONTROLS AS NEEDED.
7. ALL RECEPTACLE SHALL BE TAMPER RESISTANT TYPE RECEPTACLES AS REQUIRED BY NEC.
8. VERIFY EXACT LOCATIONS FOR HVAC EQUIPMENT WITH MECAHNICAL DRAWINGS.
9. WHERE WIRE SIZES ARE NOTED ON DRAWINGS, THAT SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
10. PROVIDE FACELESS GFCI BUTTON FOR ALL INACCESSIBLE DEVICES.

NOTES BY SYMBOL:

1	CONNECT NEW RECPETACLES TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. VERIFY MAXIMUM OF 16A ON CIRCUIT AFTER ADDITION OF NEW RECEPTACLES.
2	CONNECT NEW RECPETACLES TO NEAREST EXISTING 120V CORRIDOR RECEPETACLE CIRCUIT. VERIFY MAXIMUM OF 16A ON CIRCUIT AFTER ADDITION OF NEW RECEPTACLES.
3	CONNECT TO EXISTING CIRCUIT SERVING WATER FOUNTAIN MADE AVAILABEL AFTER DEMOLITION.
4	CONNECT REPLACEMENT UV TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. VERIFY MAXIMUM OF 16A ON CIRCUIT. EXTEND CONDUCTOR AND RACEWAY AS NEEDED.
5	PROVIDE 3#12, #12G, 3/4"C.
6	INSTALL WEATHERPROOF J-BOX AT 48" A.F.G. ON MULLION AND RUN 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR CARD READER.
7	INSTALL WEATHERPROOF J-BOX AT 48" A.F.G. ON MULLION AND RUN 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR AIPHONE.
8	INSTALL J-BOX (TOTAL 4) AT 18" A.F.F. AND RUN 1" CONDUIT WITH PULL STRING FRROM EACH J-BOX TO ABOVE ACCESSIBLE CEILING.
9	ROUTE POWER AND CONTROL FOR RECEPTACLES THROUGH MILLWORK. COORDINATE WITH FURNITURE ACCESS PANELS BY ARCHITECT.
10	PROVIDE POWER RECEPTACLES IN MILLWORK AS SHOWN. REFER TO ARCHITECTURAL FOR EXACT ORIENTATION AND ELEVATION OF RECEPTACLES AND CONTROL PANELS.
11	PROVIDE ACCESS PANEL BELOW MILLWORK IN FURROUT. REFER TO ARCHITECTURAL FOR SIZE AND ELEVATION OR ACCESS PANEL.
12	PROVIDE NEMA 3R, 60A/NF/3P DISCONNECT SWITCH. PROVIDE 3#8, #10G, 3/4" C. CONNECT CIRCUIT TO EXISTING PANEL SERVING DEMOLISHED AHU. SITE VERIFY EXACT PANEL LOCATION.

LAURA COWLEY IS RESPONSIBLE FOR CHANGES SINCE THE PREVIOUS 95% STAMPED PERMIT DRAWINGS.

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER
11/16/2025

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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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FIRST FLOOR POWER PLAN - AREA B

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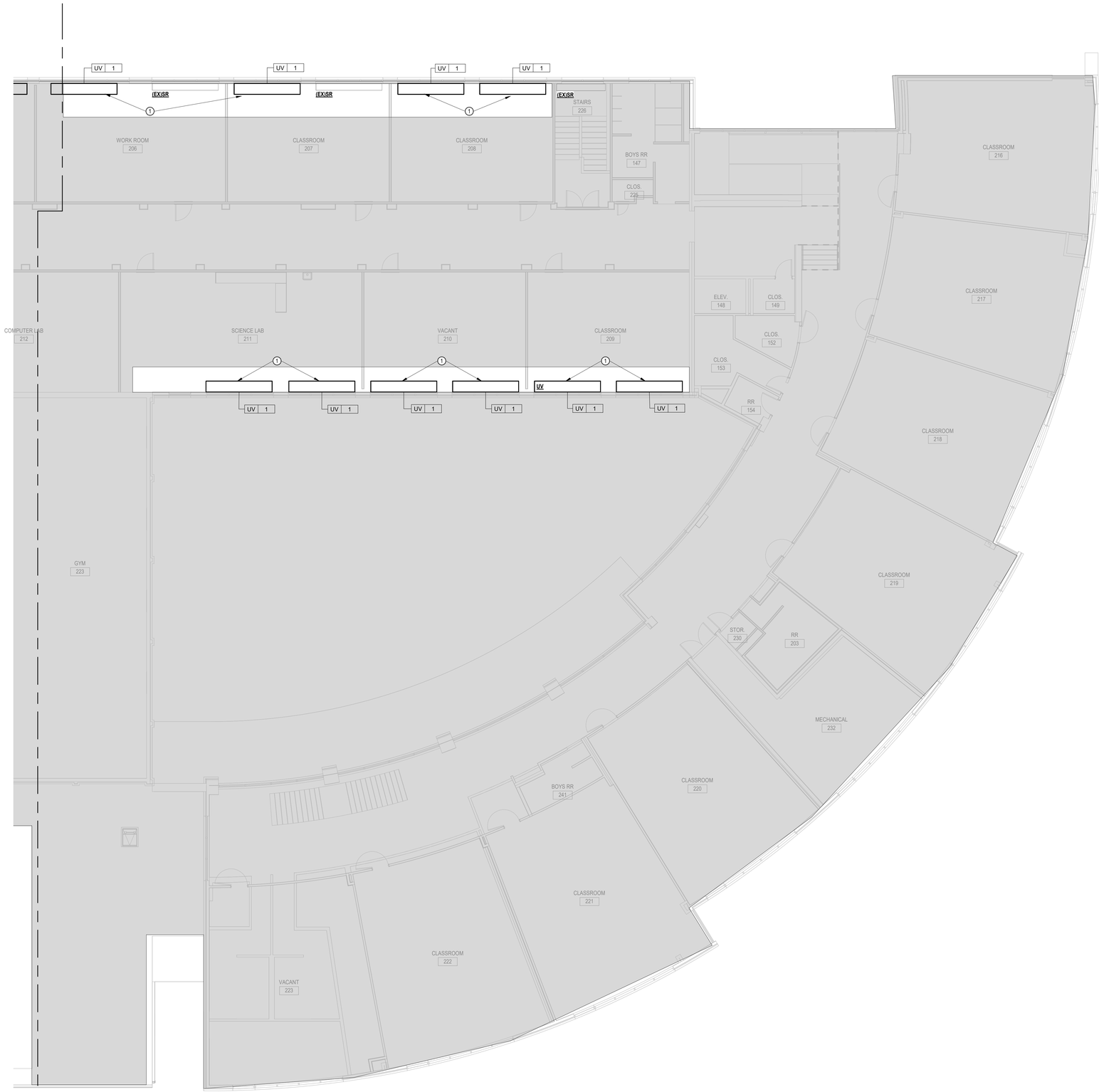
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1 SECOND FLOOR POWER PLAN - AREA A

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

PLAN NORTH PLAN NORTH

POWER GENERAL NOTES:

1. COORDINATE LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL MILLWORK AND FURNITURE LAYOUT PRIOR TO ROUGH-IN.
2. COORDINATE MOUNTING HEIGHTS AND LOCATION OF ALL RECEPTACLE OUTLETS AND SWITCHES SHOWN ON PLAN WITH ARCHITECT DRAWINGS PRIOR TO BEGIN ROUGH IN.
3. ALL RECEPTACLES WITHIN 6 FT OF SINK SHALL BE GFCI TYPE.
4. ALL 110V RUNS LONGER THAN 100 FT. SHALL BE #10.
5. ALL COVER PLATES SHALL BE STAINLESS STEEL.
6. COORDINATE WITH MECHANICAL DRAWINGS FOR ALL CONTROLS REQUIRED AND UTILIZE SPARES IN PANELS AS SHOWN FOR CONNECTING HVAC CONTROLS AS NEEDED.
7. ALL RECEPTACLE SHALL BE TAMPER RESISTANT TYPE RECEPTACLES AS REQUIRED BY NEC.
8. VERIFY EXACT LOCATIONS FOR HVAC EQUIPMENT WITH MECAHNICAL DRAWINGS.
9. WHERE WIRE SIZES ARE NOTED ON DRAWINGS, THAT SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
10. PROVIDE FACELESS GFCI BUTTON FOR ALL INACCESSIBLE DEVICES.

NOTES BY SYMBOL:

1	CONNECT REPLACEMENT UV TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. VERIFY MAXIMUM OF 16A ON CIRCUIT. EXTEND CONDUCTOR AND RACEWAY AS NEEDED.

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

STATE OF TEXAS
LAURA COWLEY
121809
REGISTERED
PROFESSIONAL ENGINEER
11/16/2025

B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

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SECOND FLOOR POWER PLAN - AREA A

DRAWING RECORD

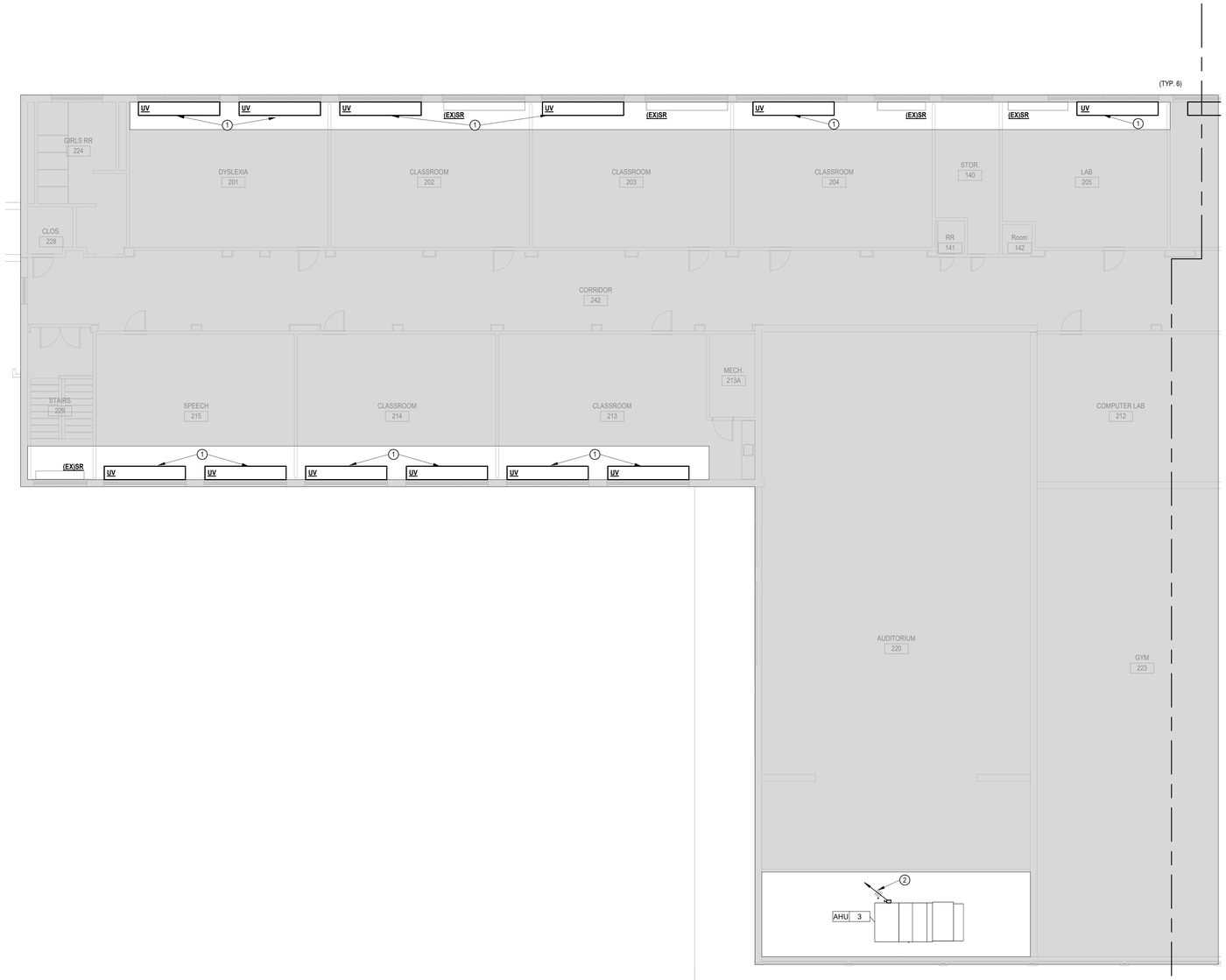
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POWER GENERAL NOTES:

1. COORDINATE LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL MILLWORK AND FURNITURE LAYOUT PRIOR TO ROUGH-IN.
2. COORDINATE MOUNTING HEIGHTS AND LOCATION OF ALL RECEPTACLE OUTLETS AND SWITCHES SHOWN ON PLAN WITH ARCHITECT DRAWINGS PRIOR TO BEGIN ROUGH IN.
3. ALL RECEPTACLES WITHIN 6 FT OF SINK SHALL BE GFCI TYPE.
4. ALL 110V RUNS LONGER THAN 100 FT. SHALL BE #10.
5. ALL COVER PLATES SHALL BE STAINLESS STEEL.
6. COORDINATE WITH MECHANICAL DRAWINGS FOR ALL CONTROLS REQUIRED AND UTILIZE SPARES IN PANELS AS SHOWN FOR CONNECTING HVAC CONTROLS AS NEEDED.
7. ALL RECEPTACLE SHALL BE TAMPER RESISTANT TYPE RECEPTACLES AS REQUIRED BY NEC.
8. VERIFY EXACT LOCATIONS FOR HVAC EQUIPMENT WITH MECAHNICAL DRAWINGS.
9. WHERE WIRE SIZES ARE NOTED ON DRAWINGS, THAT SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
10. PROVIDE FACELESS GFCI BUTTON FOR ALL INACCESSIBLE DEVICES.

NOTES BY SYMBOL:

1	CONNECT REPLACEMENT UV TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. VERIFY MAXIMUM OF 16A ON CIRCUIT. EXTEND CONDUCTOR AND RACEWAY AS NEEDED.
2	PROVIDE NEMA 3R, 60A/NF/3P DISCONNECT SWITCH. PROVIDE 3#8, #10G, 3/4" C. CONNECT CIRCUIT TO EXISTING PANEL SERVING DEMOLISHED AHU. SITE VERIFY EXACT PANEL LOCATION.

1 SECOND FLOOR POWER PLAN - AREA B
SCALE: 1/8" = 1'-0"

PLAN NORTH

PLAN NORTH

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

STATE OF TEXAS
LAURA COWLEY
121809
REGISTERED
PROFESSIONAL ENGINEER
11/16/2025

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B&H
511 E. John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
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SECOND FLOOR POWER PLAN - AREA B

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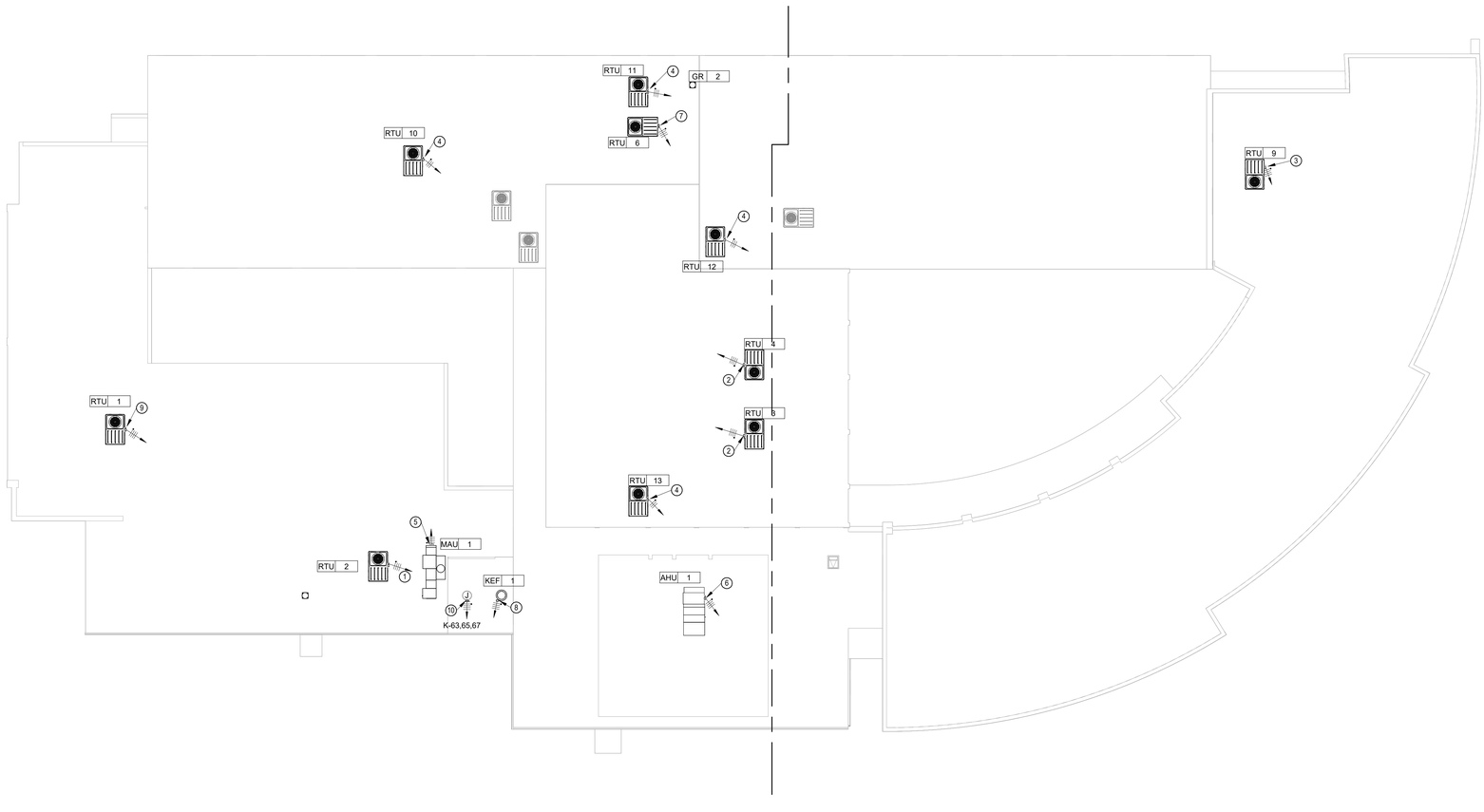
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1 ROOF POWER PLAN

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

PLAN NORTH PLAN NORTH

ROOF PLAN GENERAL NOTES:

1. REFER TO SHEET E0.01 FOR ELECTRICAL SYMBOL AND LEGENDS.
2. CIRCUITS TO ROOF MOUNTED EQUIPMENT SHALL BE ROUTED TO DISCONNECT WITHOUT RACEWAY PASSING THROUGH MECHANICAL EQUIPMENT. ROOF PENETRATIONS FOR CONDUIT SHALL BE MADE THROUGH EQUIPMENT CURBS OR PIPE CHASES.
3. MAINTAIN AT LEAST 12" SPACING BETWEEN ELECTRICAL CONDUITS AND MECHANICAL EQUIPMENT REFRIGERANT LINES.
4. ALL DISCONNECT SWITCHES SHALL BE 30A/NF/3P NEMA 3R, UNLESS OTHERWISE NOTED.
5. ALL CIRCUITING SHALL BE 3#12, #12G, 3/4"C, UNLESS OTHERWISE NOTED.
6. PROVIDE WP/GFCI RECEPTACLES AS SHOWN, AND ADDITIONAL AS REQUIRED.

NOTES BY SYMBOL:

1	PROVIDE NEMA 3R, 30A/NF/3P DISCONNECT SWITCH. PROVIDE 3#10, #10G, 3/4" C. CONNECT CIRCUIT TO EXISTING PANEL SERVING DEMOLISHED RTU. SITE VERIFY EXACT PANEL LOCATION.
2	BID ALTERNATE: PROVIDE NEMA 3R, 60A/NF/3P DISCONNECT SWITCH. PROVIDE 3#8, #10G, 3/4" C. CONNECT CIRCUIT TO EXISTING PANEL SERVING DEMOLISHED RTU. SITE VERIFY EXACT PANEL LOCATION.
3	BID ALTERNATE: PROVIDE NEMA 3R, 30A/NF/3P DISCONNECT SWITCH. PROVIDE 3#12, #12G, 3/4" C. CONNECT CIRCUIT TO EXISTING PANEL SERVING DEMOLISHED RTU. SITE VERIFY EXACT PANEL LOCATION.
4	BID ALTERNATE: PROVIDE NEMA 3R, 30A/NF/2P DISCONNECT SWITCH. PROVIDE 2#10, #10G, 3/4" C. CONNECT CIRCUIT TO EXISTING PANEL SERVING DEMOLISHED RTU. SITE VERIFY EXACT PANEL LOCATION.
5	PROVIDE NEMA 3R, 60A/NF/3P DISCONNECT SWITCH. PROVIDE 3#8, #10G, 3/4" C. CONNECT TO EXISTING PANEL DPH CIRCUIT 8,10,12. PROVIDE 45A 3P CIRCUIT BREAKER INSIDE PANEL DPH.
6	PROVIDE NEMA 3R, 30A/NF/3P DISCONNECT SWITCH. PROVIDE 3#12, #12G, 3/4" C. CONNECT CIRCUIT TO EXISTING PANEL SERVING DEMOLISHED AHU. SITE VERIFY EXACT PANEL LOCATION.
7	PROVIDE NEMA 3R, 30A/NF/3P DISCONNECT SWITCH. PROVIDE 3#12, #12G, 3/4" C. CONNECT CIRCUIT TO EXISTING PANEL SERVING DEMOLISHED RTU. SITE VERIFY EXACT PANEL LOCATION.
8	PROVIDE NEMA 3R, 30A/NF/3P DISCONNECT SWITCH. PROVIDE 3#12, #12G, 3/4" C.
9	BID ALTERNATE: PROVIDE NEMA 3R, 30A/NF/3P DISCONNECT SWITCH. PROVIDE 3#10, #10G, 3/4" C. CONNECT CIRCUIT TO EXISTING PANEL SERVING DEMOLISHED RTU. SITE VERIFY EXACT PANEL LOCATION.
10	PROVIDE NEMA 3R 240V/ 60A/NF/3P DISCONNECT AND (3)#8, #10G, 3/4"C FOR COLD STORAGE REGRIGERATION SYSTEM. COORDINATE EXACT CONNECTION REQUIREMENTS AND LOCATION WITH KITCHEN DESIGNER.

LAURA COWLEY IS RESPONSIBLE FOR CHANGES SINCE THE PREVIOUS 95% STAMPED PERMIT DRAWINGS.

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER
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511 E John Carpenter Fwy
Suite 250
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Bandhengineers.com
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ROOF POWER PLAN

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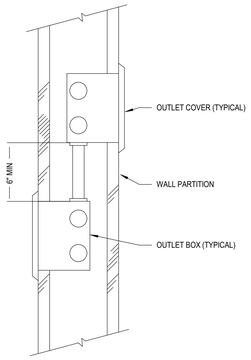
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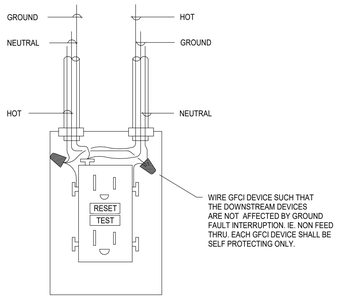
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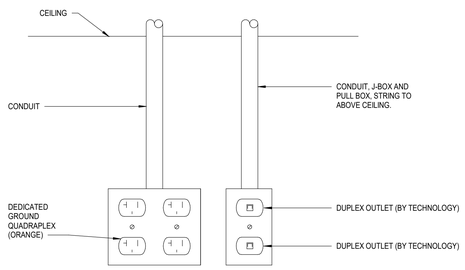
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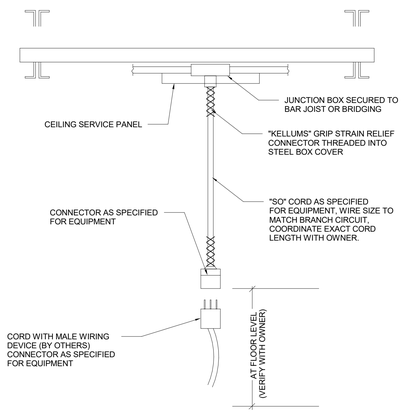
8 BACK TO BACK OUTLET BOXES
SCALE: NOT TO SCALE



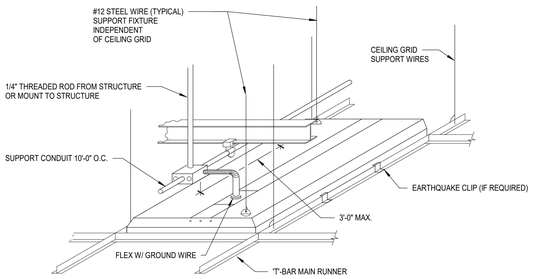
9 GFCI RECEPTACLE WIRING DIAGRAM
SCALE: NOT TO SCALE



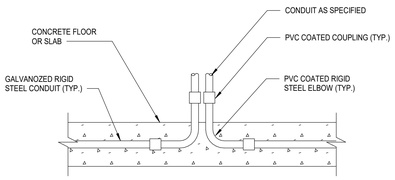
10 DUPLEX DATA OUTLETS QUAD ELECTRICAL OUTLETS
SCALE: NOT TO SCALE



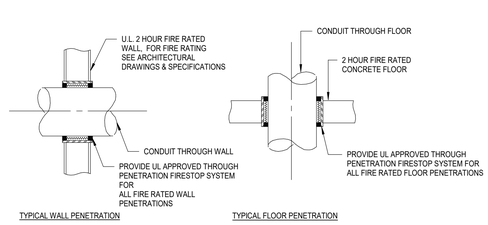
11 POWER DROP DETAIL
SCALE: NOT TO SCALE



4 LAY-IN LED FIXTURE DETAIL
SCALE: NOT TO SCALE

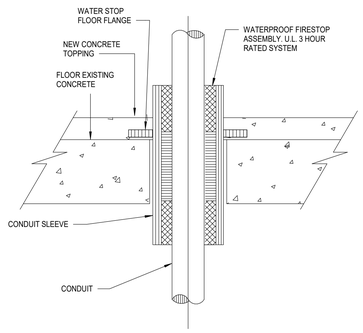


5 CONCEALED CONDUIT INSTALLATION - INTERIOR OR EXTERIOR
SCALE: NOT TO SCALE

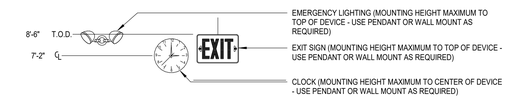


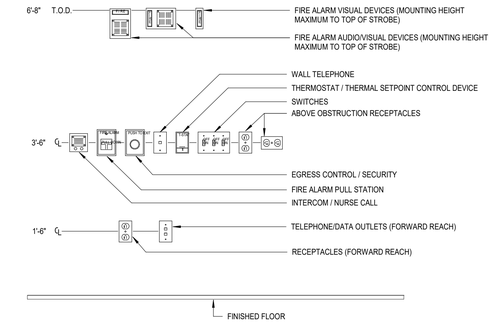
NOTE:
FOR NON-RATED WALL AND SMOKE WALLS, SEAL ALL PENETRATIONS IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS & SPECIFICATIONS.

6 PIPE/CONDUIT FLOOR/WALL PENETRATION DETAIL
SCALE: NOT TO SCALE



7 CONDUIT SLEEVE FLOOR PENETRATION - EXISTING CONSTRUCTION WITH NEW CONCRETE TOPPING
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.

1 TYPICAL DEVICE MOUNTING HEIGHTS DETAIL
SCALE: NOT TO SCALE

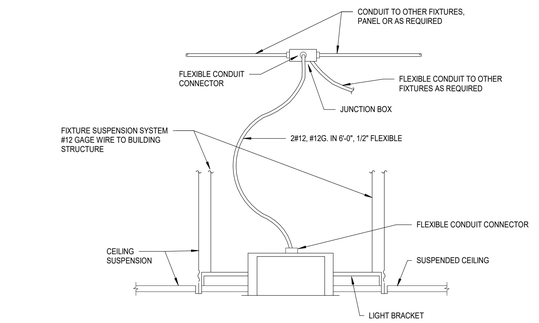
NOTES:
LIGHT FIXTURE, J-BOX FASTENING TO BUILDING STRUCTURE:

1. CONTRACTOR TO PROVIDE THE PROPOSED METHOD ON A SHOP DRAWING FORM TO THE A/E FOR THE SUPPORT OR SUPPORTS TO BE INSTALLED. METAL SUPPORTS FROM THE STRUCTURAL PURLINS, BUILDING STEEL FRAMING OR THE FRAMING SYSTEM GRID WILL BE REQUIRED. COORDINATION OF THESE SUPPORTS WITH THE STRUCTURAL FRAMING OF THE BUILDING AND INSTALLATION OF THE SAME WILL BE THIS CONTRACTOR'S RESPONSIBILITY.

INSTALLTION METHOD:

2. THIS DETAIL REPRESENTS A SUGGESTED INSTALLATION METHOD FOR THIS FIXTURE ASSEMBLY, HOWEVER, THIS METHOD HAS A 20 INCH LIMITATION FROM THE NADIR. FIELD CONDITIONS MIGHT DICTATE USING DIFFERENT COMPONENTS SUCH AS THE GE LIGHTING SYSTEM RECEPTACLE HOOK/BOX OR THE INSTALLATION OF THE METAL SUPPORTS. ALSO, IT IS THE CONTRACTOR'S OPTION TO SUBMIT AN ALTERNATIVE INSTALLATION METHOD BESIDES THE TWO ABOVE MENTIONED FOR REVIEW AND APPROVAL BY THE A/E.

2 TYPICAL MOUNTING DETAIL FOR PENDANT LIGHT FIXTURE
SCALE: NOT TO SCALE



3 TYPICAL DOWNLIGHT FIXTURE RECESSED IN ACOUSTIC GRID
SCALE: NOT TO SCALE

LAURA COWLEY IS RESPONSIBLE FOR CHANGES SINCE THE PREVIOUS 95% STAMPED PERMIT DRAWINGS.

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER
11/16/2025

BH&
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

DALLAS INDEPENDENT SCHOOL DISTRICT
McKISSACK McKISSACK

Blair Elementary School
7720 Gayglen Dr. Dallas, TX 75228

ELECTRICAL DETAILS

DRAWING RECORD

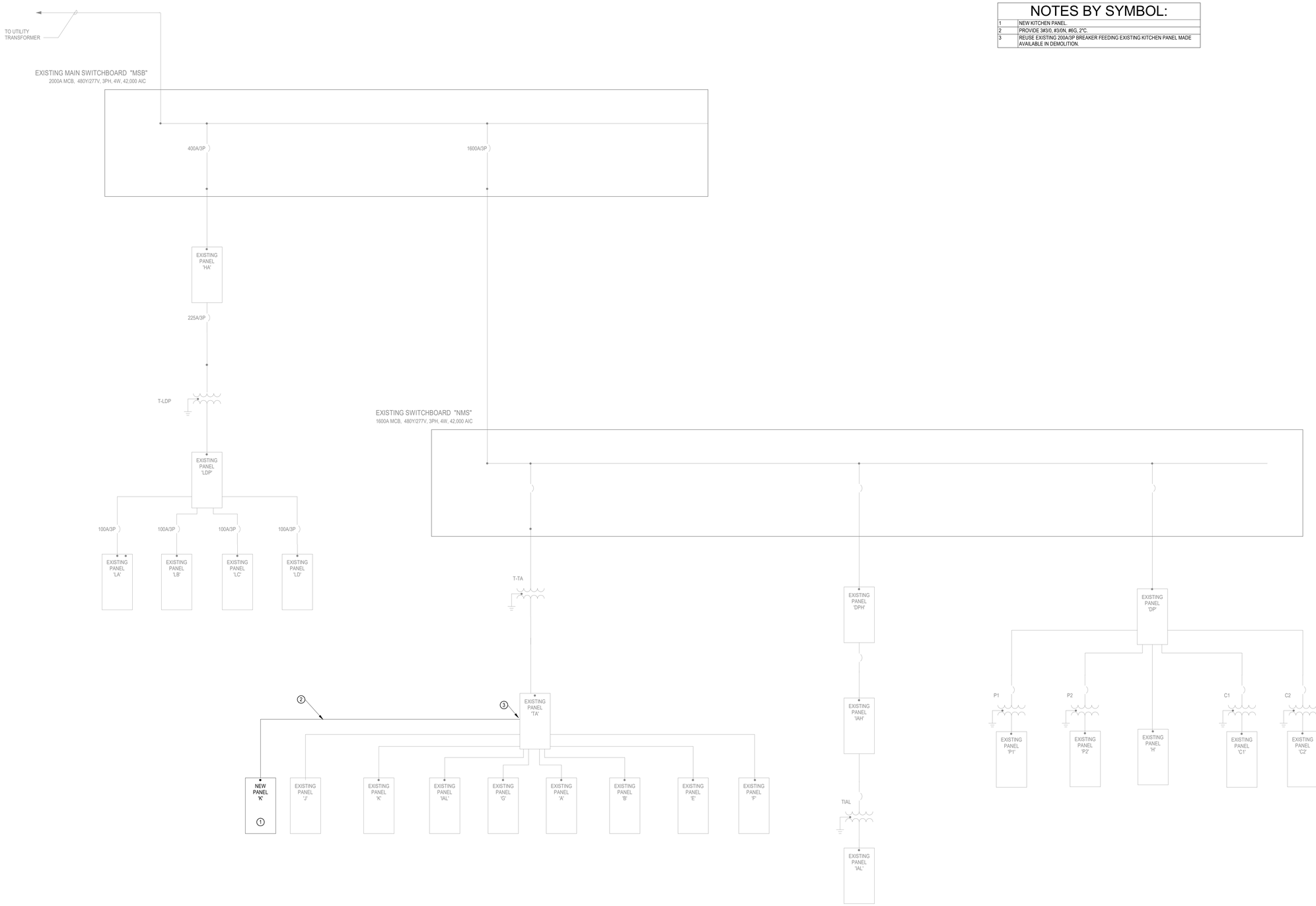
DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

E3.01

PROJECT NO.: 2022200

1/5/2026 1:01:03 PM Autodesk Docs://Blair ES/20-0532.28 - DISD Blair ES - MEP22.rvt

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1 ELECTRICAL ONE LINE DIAGRAM
SCALE: NTS

NOTES BY SYMBOL:

1	NEW KITCHEN PANEL.
2	PROVIDE 3#3/0, #3/0N, #6G, 2"C.
3	REUSE EXISTING 200A/3P BREAKER FEEDING EXISTING KITCHEN PANEL MADE AVAILABLE IN DEMOLITION.

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

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B&H
511 E. John Carpenter Fwy
Suite 250
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DALLAS INDEPENDENT SCHOOL DISTRICT
McKISSACK McKISSACK

Blair Elementary School

7720 Gaylen Dr. Dallas, TX 75228

ELECTRICAL SCHEDULES AND DIAGRAMS

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

E4.01

PROJECT NO.: 2022200

LAURA COWLEY IS RESPONSIBLE FOR CHANGES SINCE THE PREVIOUS 95% STAMPED PERMIT DRAWINGS.

1/5/2026 1:01:04 PM Autodesk Docs://Blair ES/20532.28 - DISD Blair ES - MEP22.rvt

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PANEL NAME: HA

MAIN RATING: 400 A **VOLTS:** 480/277 3PH, 4W **MOUNTING:** SURFACE
MCB RATING: 400A **A.I.C. RATING:** EXISTING **SUPPLIED FROM:**

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING LOAD (LTS)	20 A	1	0.00			0.00			3	20 A	EXISTING LOAD (CWP)	2
3	EXISTING LOAD (LTS)	20 A	1		0.00			0.00		--	--	--	4
5	EXISTING LOAD (LTS)	20 A	1			0.00			0.00	--	--	--	6
7	EXISTING LOAD (LTS)	20 A	1	0.00			0.00			3	20 A	EXISTING LOAD (HW)	8
9	EXISTING LOAD (LTS)	20 A	1		0.00			0.00		--	--	--	10
11	EXISTING LOAD (LTS)	20 A	1			0.00			0.00	--	--	--	12
13	EXISTING LOAD (LTS)	20 A	1	0.00			0.00			3	20 A	EXISTING LOAD (AHU-1)	14
15	EXISTING LOAD (LTS)	20 A	1		0.00			0.00		--	--	--	16
17	EXISTING LOAD (LTS)	20 A	1			0.00			0.00	--	--	--	18
19	EXISTING LOAD (LTS)	20 A	1	0.00			0.00			3	20 A	EXISTING LOAD (AHU-2)	20
21	EXISTING LOAD (LTS)	20 A	1		0.00			0.00		--	--	--	22
23	**LGT - KITCHEN**	20 A	1			1.91			0.00	--	--	--	24
25	**LGT - CAFETERIA**	20 A	1	1.99			0.00			3	20 A	EXISTING LOAD (AHU-3)	26
27	**LGT-CRAWL SPACE**	20 A	1		0.61			0.00		--	--	--	28
29	**LGT - RECEPTION**	20 A	1			0.67			0.00	--	--	--	30
31	SPACE	--	1	--			0.00			3	30 A	EXISTING LOAD (AHU-4)	32
33	SPACE	--	1		--			0.00		--	--	--	34
35	SPACE	--	1			--			0.00	--	--	--	36
37	SPACE	--	1	--			2.67			3	20 A	**AHU-2 UNIT HEATER**	38
39	SPACE	--	1		--			2.67		--	--	--	40
41	SPACE	--	1			--			2.67	--	--	--	42
			TOTAL...	25.99			24.60			26.49			
			TOTAL...	94.60 A			88.83 A			96.39 A			

LOAD CLASSIFICATION	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	0 VA	0.00%	0 VA		
Lighting	4762 VA	100.00%	4762 VA	**TOTAL CONN. LOAD:**	77.08 kVA
Motor	8000 VA	125.00%	10000 VA	**TOTAL EST. DEMAND:**	95.08 kVA
KITCHEN	0 VA	0.00%	0 VA	**TOTAL CONN.:**	92.71 A
HVAC	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	114.36 A
MISCELLANEOUS	0 VA	0.00%	0 VA		
Power	0 VA	0.00%	0 VA		
Existing Load	63999 VA	125.00%	79999 VA		

NOTES:
EXISTING PANEL

PANEL NAME: DPH

MAIN RATING: 400 A **VOLTS:** 480/277 3PH, 4W **MOUNTING:** Recessed
MCB RATING: 400A **A.I.C. RATING:** EXISTING **SUPPLIED FROM:**

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE	60 A	3	0.00			0.00			3	40 A	EXISTING	2
3	--	--	--		0.00			0.00		--	--	--	4
5	--	--	--			0.00			0.00	--	--	--	6
7	EXISTING	25 A	3	0.00									8
9	--	--	--		0.00								10
11	--	--	--			0.00							12
13	EXISTING	100 A	3	0.00									14
15	--	--	--		0.00								16
17	--	--	--			0.00							18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			TOTAL...	0.00			0.00			0.00			
			TOTAL...	0.00 A			0.00 A			0.00 A			

LOAD CLASSIFICATION	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	0 VA	0.00%	0 VA		
Lighting	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0.00 kVA
Motor	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0.00 kVA
KITCHEN	0 VA	0.00%	0 VA	**TOTAL CONN.:**	0.00 A
HVAC	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0.00 A
MISCELLANEOUS	0 VA	0.00%	0 VA		
Power	0 VA	0.00%	0 VA		

NOTES:

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	DESCRIPTION	MODEL	VOLTAGE	WATTAGE
A	ACUITY BRANDS LIGHTING	2X4 RECESSED TROFFER	2BLT4 0L ADP GZ10 LP840	MVOLT	48 W
A2	ACUITY BRANDS LIGHTING	2X2 RECESSED TROFFER	STAK 2X2 3000LM 80CRI 40K MVOLT	277V	24 W
A3	ACUITY BRANDS LIGHTING	2X4 RECESSED TROFFER GASKETED	2GTL 4 60L A12125 GZ1 ABC LP840	MVOLT	49 W
B	ACUITY BRANDS LIGHTING	6" DOWNLIGHT	LDN6-40-25-L06-MVOLT-GZ10	MVOLT	18 W
BE	ACUITY BRANDS LIGHTING	6" DOWNLIGHT BATTERY BACK UP	LDN6-40-25-L06-MVOLT-GZ10-EL	MVOLT	18 W
D1	FINELITE	SURFACE MOUNT LINEAR	HP-6-P-D-8'-B-840-277-SC-FC-1%-FM-FE-SW	277V	40 W
D2	FINELITE	SURFACE MOUNT LINEAR	HP-6-P-D-4'-B-840-277-SC-FC-1%-FM-FE-SW	277V	20 W
E	LITHONIA	STRIP LIGHT	#CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WGCLX48	120	35 W
F	BROWNLEE	INNIE PENDANT	2680-42-WH-S93-WH-CC3-WHC-40K	UNV	93 W
G	EUREKA	MILL 014 SUSPENDED	4277D-14-LED-40-80-277V-DV	277	32 W
P1	ACUITY BRANDS LIGHTING	POLE LIGHT, 1 HEAD, 25FT POLE	RSX1-P4-40K-R4-MVOLT-SPA-PE-NLTAIR2-PIRHN-BS-DDBXD	277V	133 W
P2	ACUITY BRANDS LIGHTING	POLE LIGHT, 2 HEADS, 25FT POLE	RSX1-P4-40K-R4-MVOLT-SPA-PE-NLTAIR2-PIRHN-BS-DDBXD	277V	266 W
W	ACUITY BRANDS LIGHTING	EXTERIOR WALL PACK	WSQ LED-P3-40K-SR2-MVOLT-PE-E20WC	MVOLT	50 W
X	ACUITY BRANDS LIGHTING	EXIT SIGN	EDG-1-[COLOR]-EL	MVOLT	3 W
Y	ACUITY BRANDS LIGHTING	EMERGENCY BUG-EYE	ELM4L-LTP	MVOLT	11 W

PANEL NAME: LA

MAIN RATING: 100 A **VOLTS:** 208/120 3PH, 4W **MOUNTING:** Recessed
MCB RATING: MLO **A.I.C. RATING:** EXISTING **SUPPLIED FROM:**

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING LOAD (RCPT)	20 A	1	0.00			0.00			1	20 A	EXISTING LOAD (RCPT)	2
3	EXISTING LOAD (RCPT)	20 A	1		0.00			0.00		1	20 A	EXISTING LOAD (RCPT)	4
5	EXISTING LOAD (RCPT)	20 A	1			0.00			0.00	1	20 A	EXISTING LOAD (RCPT)	6
7	EXISTING LOAD (RCPT)	20 A	1	0.00			0.00			1	20 A	EXISTING LOAD (RCPT)	8
9	EXISTING LOAD (RCPT)	20 A	1		0.00			0.00		1	20 A	EXISTING LOAD (RCP)	10
11	EXISTING LOAD (RCPT)	20 A	1			0.00			0.00	1	20 A	EXISTING LOAD (RCPT)	12
13	EXISTING LOAD (RCPT)	20 A	1	0.00			0.00			1	20 A	EXISTING LOAD (RCPT)	14
15	EXISTING LOAD (RCPT)	20 A	1		0.00			0.00		1	20 A	EXISTING LOAD (RCPT)	16
17	EXISTING LOAD (RCPT)	20 A	1			0.00			0.00	1	20 A	EXISTING LOAD (RCPT)	18
19	EXISTING LOAD (RCPT)	20 A	1	0.00			0.00			1	20 A	EXISTING LOAD (RCPT)	20
21	EXISTING LOAD (RCPT)	20 A	1		0.00			0.00		1	20 A	EXISTING LOAD (RCPT)	22
23	EXISTING LOAD (RCPT)	20 A	1			0.00			0.00	1	20 A	EXISTING LOAD (RCPT)	24
25	EXISTING LOAD (RCPT)	20 A	1	0.00			0.00			1	20 A	EXISTING LOAD (RCPT)	26
27	EXISTING LOAD (RCPT)	20 A	1		0.00			0.00		1	20 A	EXISTING LOAD (RCPT)	28
29	EXISTING LOAD (RCPT)	20 A	1			0.00			0.00	1	20 A	EXISTING LOAD (RCPT)	30
31	EXISTING LOAD (RCPT)	20 A	1	0.00			0.00			1	20 A	EXISTING LOAD (RCPT)	32
33	EXISTING LOAD (RCPT)	20 A	1		0.00			0.00		1	20 A	EXISTING LOAD (RCPT)	34
35	EXISTING LOAD (RCPT)	20 A	1			0.00			0.00	1	20 A	EXISTING LOAD (RCPT)	36
37	EXISTING LOAD (RCPT)	20 A	1	0.00			0.00			1	20 A	EXISTING LOAD (RCPT)	38
39	EXISTING LOAD (RCPT)	20 A	1		0.00			0.36		1	20 A	**QUAD-PRINCIPAL**	40
41	EXISTING LOAD (RCPT)	20 A	1			0.00			0.72	1	20 A	**QUAD-RECEPTION**	42
			TOTAL...	0.00			0.36		0.72				
			TOTAL...	0.00 A			3.46 A		6.46 A				

LOAD CLASSIFICATION	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	1080 VA	100.00%	1080 VA		
Lighting	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	1.08 kVA
Motor	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	1.08 kVA
KITCHEN	0 VA	0.00%	0 VA	**TOTAL CONN.:**	3.00 A
HVAC	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	3.00 A
MISCELLANEOUS	0 VA	0.00%	0 VA		
Power	0 VA	0.00%	0 VA		

NOTES:
EXISTING PANEL

PANEL NAME: LB

MAIN RATING: 100 A **VOLTS:** 208/120 3PH, 4W **MOUNTING:** Recessed
MCB RATING: MLO **A.I.C. RATING:** EXISTING **SUPPLIED FROM:**

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING LOAD (HVAC)	20 A	2	0.00			0.00			1	20 A	EXISTING LOAD (HD)	2
3	--	--	--		0.00			0.00		1	20 A	EXISTING LOAD (HD)	4
5	EXISTING LOAD (HVAC)	20 A	1			0.00			0.00	1	20 A	EXISTING LOAD (HD)	6
7	EXISTING LOAD (HVAC)	20 A	1	0.00			0.00			1	20 A	EXISTING LOAD (HD)	8
9	EXISTING LOAD (HVAC)	20 A	1		0.00			0.00		1	20 A	EXISTING LOAD (WATER...	10
11	EXISTING LOAD (SUMP PUMP)	20 A	1			0.00			0.00	1	20 A	EXISTING LOAD (WATER...	12
13	SPARE	20 A	1	0.00			0.00			1	20 A	EXISTING LOAD (HVAC)	14
15	EXISTING LOAD (RCPT)	20 A	1		0.00			0.00		1	20 A	EXISTING LOAD (HVAC)	16
17	EXISTING LOAD (RCPT)	20 A	1			0.00			0.20	1	20 A	**EF-105**	18
19	SPARE	20 A	1	0.00			0.36			1	20 A	**RECEPTACLE**	20
21	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	22
23	**COPIER**	20 A	1			0.18			0.00	1	20 A	SPARE	24
25	**PWR - SB 1**	60 A	3	5.00			0.00			1	20 A	SPARE	26
27	--	--	--		5.00			0.00		1	20 A	SPARE	28
29	--	--	--			5.00			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	SPACE	--	1			--			0.00	1	20 A	SPARE	36
37	SPACE	--	1	--			0.00			1	20 A	EXISTING LOAD (SEC)	38
39	SPACE	--	1		--			0.00		1	20 A	EXISTING LOAD (FA)	40
41	SPACE	--	1			--			0.00	1	20 A	SPARE	42
			TOTAL...	5.36			5.00		5.38				
			TOTAL...	45.13 A			41.67 A		45.29 A				

LOAD CLASSIFICATION	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	540 VA	100.00%	540 VA		
Lighting	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	15.74 kVA
Motor	15200 VA	124.67%	18950 VA	**TOTAL EST. DEMAND:**	19.49 kVA
KITCHEN	0 VA	0.00%	0 VA	**TOTAL CONN.:**	43.69 A
HVAC	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	54.10 A
MISCELLANEOUS	0 VA	0.00%	0 VA		
Power	0 VA	0.00%	0 VA		

NOTES:
EXISTING PANEL

PANEL NAME: K

MAIN RATING: 200 A **VOLTS:** 208/120 3PH, 4W **MOUNTING:** Recessed
MCB RATING: 200A **A.I.C. RATING:** 10K AIC **SUPPLIED FROM:**

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	CONV RCPT (E13/E10)	20 A	1	0.36			1.92			1	20 A	REMOTE FILTER SYSTEM...	2
3	COOLER COIL (E103D) 1	20 A	1		0.22			0.36		1	20 A	CONV RCPT (E10)	4
5	CASH REGISTER (E214)	20 A	1			0.18			1.66	2	20 A	FROST TOP (E303)	6
7	HEATED TOP (E302)	20 A	2	1.66			1.66			--	--	--	8
9	--	--	--		1.66			0.22		1	20 A	DRAIN LINE HEATER	10
11	DROP FRONT MILK COOLER...	20 A	1			0.96			0.86	1	20 A	REFRIGERATOR (E188)	12
13	CONVECTION STEAMER (E162...	20 A	1	0.48			0.72			1	20 A	CONVECTION OVEN (E161) 3	14
15	SHUNT TRIP	20 A	1		0.00			0.00		1	20 A	SHUNT TRIP	16
17	HEATED TOP (E302) 2	20 A	2			1.66			1.66	2	20 A	FROST TOP (E303) 2	18
19	--	--	--	1.66			1.66			--	--	--	20
21	CASH REGISTER (E214) 2	20 A	1		0.18			4.80		3	50 A	HOT/COLD WELLS (E300)	22
23	HEATED CABINET (E186)	20 A	2			1.62			4.80	--	--	--	24
25	--	--	--	1.62			4.80			--	--	--	26
27	MENU SYSTEM (E216)	20 A	1		0.50			0.86		1	20 A	REFRIGERATOR (E188) 2	28
29	TABLE RCPT (E144) 2	20 A	1			0.54			0.00	1	20 A	POS SYSTEM (E16)	30
31	CONVECTION OVEN (E161)	20 A	1	0.72			0.72			1	20 A	CONVECTION OVEN (E161) 2	32
33	SHUNT TRIP	20 A	1		0.00			0.00		1	20 A	SHUNT TRIP	34
35	TABLE RCPT (E144) 4	20 A	1			0.54			0.54	1	20 A	TABLE RCPT (E144) 3	36
37	DATA-BIOMETRIC TIME CLOCK	20 A	1	0.00			1.20			1	20 A	HOOD LIGHTS (E153)	38
39	TABLE RCPT (E144)	20 A	1		0.54			0.00		1	20 A	SHUNT TRIP	40
41	DETERGENT DISPENSER...	20 A	1			0.60			1.20	1	20 A	HEAT SENSOR (E153M)	42
43	CONV RCPT (E010) 2	20 A	1	0.54			0.00			1	20 A	SHUNT TRIP	44
45	DOOR HEAT/LIGHTS (E102A) 2	20 A	1		1.92			0.39		3	20 A	SCRAP COLLECTOR (E708) *	46
47	AIR CURTAIN (E101)	20 A	1			0.61			0.39	--	--	--	48
49	CONV RCPT (E010) 3	20 A	1	0.90			0.39			--	--	--	50
51	EF-1	20 A	1		0.25			0.39		3	20 A	SCRAP COLLECTOR (E708) 2 *	52
53	RECEPTACLE	20 A	1			0.36			0.39	--	--	--	54
55	SF-CS1/EF-CS1	20 A	1	1.00			0.39			--	--	--	56
57	CONVECTION OVEN (E161) 4	20 A	1		0.72			1.92		1	20 A	DOOR HEATER/LIGHTS (E102A)	58
59	SHUNT TRIP	20 A	1			0.00			0.60	1	20 A	PRESSURE RELIEF...	60
61	TABLE RCPT (E144) 5	20 A	1	0.54			0.60			1	20 A	TEMP. ALARM (E102B) 2	62
63	REF SYSTEM (E103)	50 A	3		4.80			0.60		1	20 A	TEMP. ALARM (E102B)	64
65	--	--	--			4.80			0.55	3	20 A	KEF-1	66
67	--	--	--	4.80			0.55			--	--	--	68
69	TABLE RCPT (E144) 6	20 A	1		0.54			0.55		--	--	--	70
71	REMOTE FIRE PULL (E15)	20 A	1			0.00			0.60	1	20 A	PANIC ALARM BUTTON (103E)	72
73	EF 177, 143, 107	15 A	2	0.34			0.60			1	20 A	PANIC ALARM BUTTON (103E) 2	74
75	--	--	--		0.34			1.43		2	20 A	FREEZER COIL	76
77	STACK WASHER/DRYER...	20 A	2			2.50			1.43	--	--	--	78
79	--	--	--	2.50			3.21			3	35 A	POWER SOAK SINK (E256)	80
81	CONVECTION STEAMER (E162...	20 A	1		0.48			3.21		--	--	--	82
83	SHUNT TRIP	20 A	1			0.00			3.21	--	--	--	84
85	PRESSURE RELIEF...	20 A	1	0.60			0.18			1	20 A	TILT BRASING PAN (E164)	86
87	SPARE	20 A	1		0.00			0.00		1	20 A	SHUNT TRIP	88
89	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	90
			TOTAL...	36.33			26.88		32.27				
			TOTAL...	309.68 A			224.01 A		275.80 A				

LOAD CLASSIFICATION	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	1080 VA	100.00%	1080 VA		
Lighting	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	95.48 kVA
Motor	11555 VA	120.81%	13960 VA	**TOTAL EST. DEMAND:**	68.89 kVA
KITCHEN	82847 VA	65.00%	53851 VA	**TOTAL CONN.:**	265.03 A
HVAC	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	191.22 A
MISCELLANEOUS	0 VA	0.00%	0 VA		
Power	0 VA	0.00%	0 VA		

NOTES:
PROVIDE GFCI PROTECTION PER GENERAL NOTE E5.01/17.

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER
11/16/2025

DALLAS ISD BOND 2020
OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

DALLAS INDEPENDENT SCHOOL DISTRICT
McKISSACK McKISSACK

Blair Elementary School

7720 Gayglen Dr. Dallas, TX 75228

ELECTRICAL PANEL SCHEDULES

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

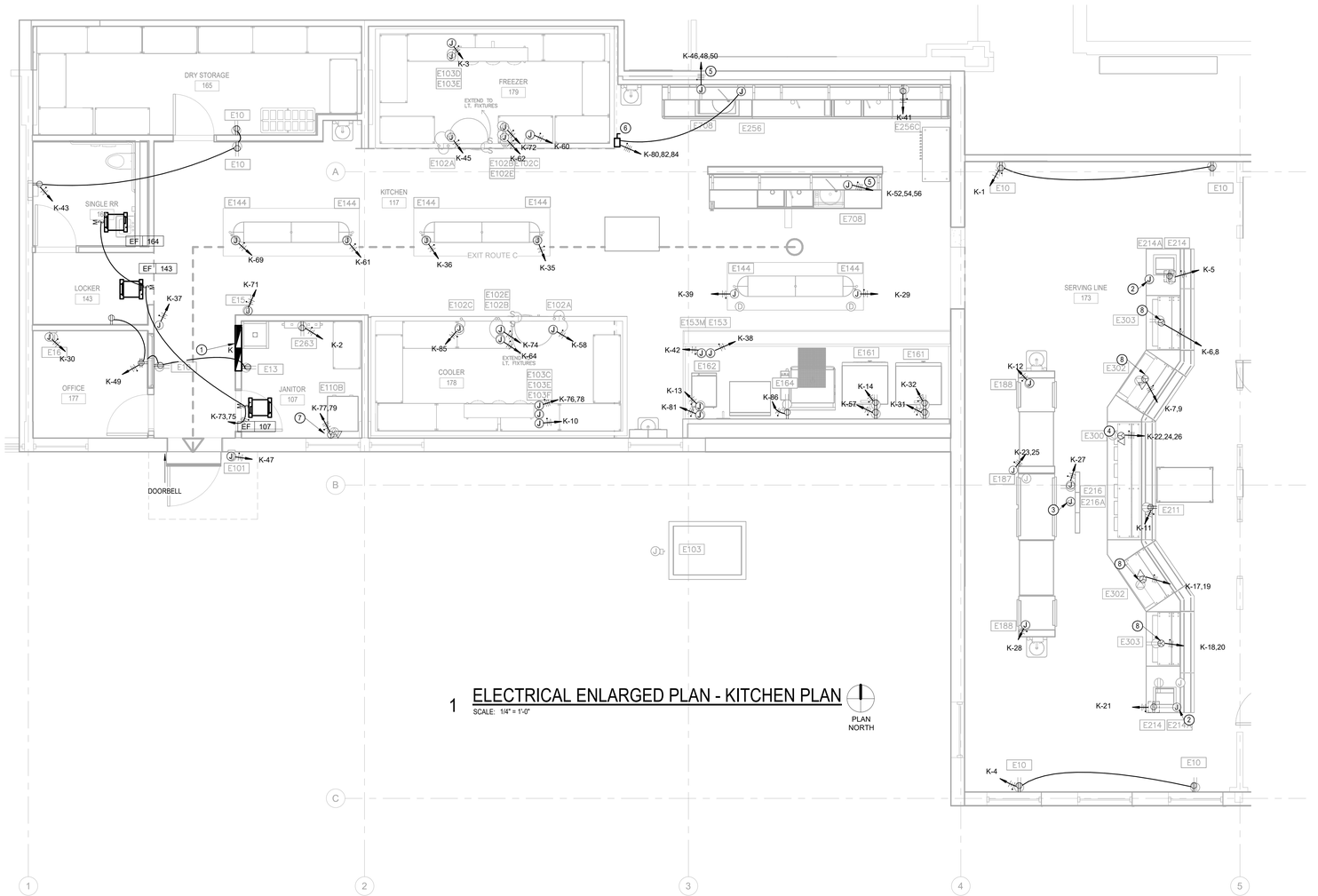
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1 ELECTRICAL ENLARGED PLAN - KITCHEN PLAN

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

PLAN NORTH

KITCHEN GENERAL NOTES:

1. COORDINATE EQUIPMENT'S ELECTRICAL REQUIREMENTS INCLUDING EXACT MOUNTING HEIGHTS AND LOCATIONS, TYPE OF POWER CONNECTION, AND INSTALLATION OF ACCESSORIES INCLUDING STRAIN-RELIEF WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
2. HARDWIRES CONNECTIONS TO BE MADE WITH SEAL-TIGHT FLEXIBLE METAL CONDUIT WITH INSULATED GROUND WIRE INSTALLED WITH PHASE AND NEUTRAL CONDUCTORS.GROUND WIRE TO BE BONDED AT BOTH ENDS.
3. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO KITCHEN EQUIPMENT.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE CORD AND PLUG AS REQUIRED, SIZED PER MANUFACTURER'S SPECIFICATIONS.
5. ALL WIRING DEVICE COVER PLATES SHALL BE STAINLESS STEEL. COORDINATE WITH OWNER AND ARCHITECT BEFORE PURCHASE.
6. REFERENCE FOOD SERVICE EQUIPMENT SHEETS FOR TERMINATION REQUIREMENTS (I.E. JUNCTION BOX, RECEPTACLE, ETC.).
7. PROVIDE DISCONNECT SWITCHES AS REQUIRED.
8. PROVIDE FLEXIBLE EMT AND MAKE FINAL CONNECTIONS. REFERENCE FOOD SERVICE PLANS.
9. COORDINATE MOUNTING HEIGHTS OF ALL FOOD SERVICE EQUIPMENT WIRING DEVICES WITH FOOD SERVICE PLANS.
10. COORDINATE ALL ELECTRICAL REQUIREMENTS OF FOOD SERVICE EQUIPMENT WITH FOOD SERVICE PLANS, EQUIPMENT SUPPLIER AND DATA SHEETS.
11. PROVIDE WIRING AND CONDUIT FOR CONTROL OF EXHAUST FANS AND MAKEUP AIR FANS.
12. PROVIDE INTERCONNECT SWITCH FOR HOOD EXHAUST AND SUPPLY FANS. REFER TO KITCHEN DESIGNER AND MECHANICAL FOR FURTHER REQUIREMENTS.
13. PROVIDE ALL NECESSARY CUT-OFF SWITCHES AND RELAYS TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM. COORDINATE BETWEEN TRADES PRIOR TO ELECTRICAL ROUGH-IN.
14. PROVIDE ALL NECESSARY CONNECTIONS TO SHUNT-TRIP BREAKERS FOR UNDER-HOOD EQUIPMENT. COORDINATE BETWEEN TRADES PRIOR TO ELECTRICAL ROUGH-IN.
15. PROVIDE SWITCH AND POWER FOR HOOD LIGHTS AND RELAY CONTROLS. REFER TO KITCHEN DESIGNER FOR FURTHER REQUIREMENTS. COORDINATE BETWEEN TRADES PRIOR TO ELECTRICAL ROUGH-IN.
16. ELECTRICAL CONTRACTOR SHALL VERIFY ALL FOOD SERVICE/KITCHEN EQUIPMENT'S ELECTRICAL REQUIREMENTS INCLUDING EXACT MOUNTING HEIGHTS AND LOCATIONS, TYPE OF POWER CONNECTION, AND INSTALLATION OF ACCESSORIES WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
17. PROVIDE ALL CIRCUITS IN KITCHEN AREA THAT ARE 150V OR LESS AND 60A OR LESS, SINGLE OR 3-PHASE WITH GFCI PROTECTION PER NEC 210.8.
18. REFER TO SHEET E402 FOR KITCHEN SCHEDULE & DETAIL.
19. All SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES AND THREE-PHASE RECEPTACLES RATED AT 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE KITCHEN SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION.
20. SIMPLEX RECEPTACLE MODEL# Leviton GFPL2-PLW 20A-125V EXTRA-HEAVY DUTY INDUSTRIAL GRADE PILOTLIGHT TAMPER-RESISTANT SELF-TEST GFCI RECEPTACLE, 20-AMP, OR APPROVED EQUAL.

NOTES BY SYMBOL:

1	PROPOSED LOCATION FOR NEW 200A, 208/120V 3PH, 4W KITCHEN PANEL. COORDINATE EXACT LOCATION AND FUR OUT WITH ARCHITECT/OWNER.
2	PROVIDE 1" CONDUIT WITH PULL STRING FROM CASHIER STATION TO ABOVE ACCESSIBLE CEILING VIA CRAWL SPACE. FILL ALL PENETRATIONS IN FLOORS/WALL WITH FIRE PROOFING.
3	PROVIDE 1" CONDUIT WITH PULL STRING FROM MENU BOARD TO ABOVE ACCESSIBLE CEILING.
4	PROVIDE NEMA 14-50 OUTLET AND (3)#8, #10G, 1"C. PROVIDE TWIST LOCK AS REQUIRED BY FOOD SERVICE PROVIDER, COORDINATE PRIOR TO ORDERING.
5	PROVIDE (3)#12, #12G, 3/4"C.
6	PROVIDE (3)#8, #10G, 3/4"C.
7	PROVIDE NEMA 10-30R AND (3)#10, #10G, 3/4"C. VERIFY RECEPTACLE TYPE WITH EQUIPMENT PRIOR TO ORDERING.
8	PROVIDE NEMA 10-20R AND (3)#12,#12G, 3/4"C. PROVIDE TWIST LOCK AS REQUIRED BY FOOD SERVICE PROVIDER, COORDINATE PRIOR TO ORDERING.

FOODSERVICE ELECTRICAL SCHEDULE

FDP ENO	FDP ECONN	FDP ELOAD	FDP EVOLT	FDP EPH	FDP ESERVICE TO	FDP ELOC	FDP EAFF	FDP EREMARKS
E10	DR	16.0A	120	1	CONVENIENCE OUTLET	WALL	24"	---
E13	WPR	16.0A	120	1	CONVENIENCE OUTLET	WALL	48"	---
E15	JB	---	---	--	REMOTE FIRE PULL	WALL	48"	RE: NOTE #11 - RECESSED JB - EXTEND TO FIRE SYSTEM FOR HOOD
E16	JB	---	---	--	POS SYSTEM	VERIFY	VERIFY	BTC; RE: NOTE #14 - EMPTY CONDUIT W/ PULL WIRE, EXTEND TO CASH REGISTERS
E101	JB	5.1A	120	1	AIR SCREEN	WALL	82"	BTC; MAGNETIC REED SWITCH ON DOOR JAMB & DOOR
E102A	JB	16.0A	120	1	DOOR HEATER/LIGHTS	CLG	DFA	BTC
E102B	JB	5.0A	120	1	TEMP. ALARM	CLG	DFA	BTC
E102C	JB	5.0A	120	1	PRESSURE RELIEF PORT	CLG	DFA	BTC
E102E	JB	10.0A	120	1	PANIC ALARM BUTTON	CLG	DFA	BTC; INTERCONNECT TO STROBE LIGHT/HORN ABOVE FREEZER DOOR AND IN CAFETORIUM
E103	JB/DS	30.1A	208	3	REFRIGERATION SYSTEM	VERIFY	VERIFY	BTC; RE: NOTE #4 & #5
E103C	JB	13.7A	208	1	FREEZER COIL	CLG	DFA	BTC
E103D	JB	1.8A	120	1	COOLER COIL	CLG	DFA	BTC
E103E	JB	---	---	---	DATA CONNECTION	CLG	DFA	BTC; RUN TO NEAREST IDF / MDF ROOM
E103F	JB	16.0A	120	1	DRAIN LINE HEATER	CLG	DFA	BTC; DEDICATED CIRCUIT
E110B	SR	30.0A	120/240	1	STACKED WASHER DRYER	WALL	48"	VERIFY NEMA PLUG RECEPTACLE
E139	SR	15.0A	120	1	INSUL. MOBILE PROOFER	CLG	DFA	--
E144	DCR	16.0A	120	1	TABLE RECEPTACLE	CLG	84"	TWISTLOCK PLUG & RECEPTACLE
E153	JB	10.0A	120	1	HOOD LIGHTS	CLG	DFA	BTC; RE: NOTE #4, #6, #9 & #10
E153M	JB	10.0A	120	1	HEAT SENSOR	CLG	DFA	BTC; RE: NOTE #4, #6, #9 & #10
E161	(2)DR	6.0A EA.	120	1	CONVECTION OVEN	WALL	24"/48"	SHUNT TRIP BREAKER
E162	(2) JB	4.0A EA.	120	1	CONVECTION STEAMER	WALL	24" / 60"	BTC: SHUNT TRIP BREAKER
E164	DR	1.4A	120	1	TILT BRAISING PAN	WALL	24"	SHUNT TRIP BREAKER
E187	JB	15.5A	120/208	1	HEATED CABINET	WALL	96"	BTC; RE: NOTE #4; MOUNT ON KITCHEN SIDE (CAP AND COVER FOR FUTURE)
E188	JB	7.2A	120	1	REFRIGERATOR	WALL	96"	BTC; RE: NOTE #4; MOUNT ON KITCHEN SIDE (CAP AND COVER FOR FUTURE)
E193	JB	8.2A	120	1	REFRIGERATOR	CLG	DFA	BTC; OMIT PLUG, UNIT TO BE HARDWIRED
E201.1	SR	16.0A	120	1	FROST TOP	CLG	DFA	---
E211	DR	8.0A	120	1	DROP FRONT MILK COOLER-12 CASE	<varies>	<varies>	---
E214	DR/PMR	16.0A	120	1	CASH REGISTER	<varies>	<varies>	DEDICATED CIRCUIT
E214A	JB	---	---	-	POS	<varies>	<varies>	<varies>
E216	DR	16.0A	120	1	MENU SYSTEM	CLG	DFA	THRU SWITCH
E216A	JB	---	---	---	DATA	CLG	DFA	BTC; RE: NOTE #4
E256	JB/DS	26.7A	208	3	POWER SOAK SINK	WALL	48"	BTC; RE: NOTE #4 - CONNECT FROM E256THRU C.P. TO PUMP
E256C	WPR	5.0A	120	1	DETERGENT SYSTEM	WALL	24"	WATERPROOF RECEPTACLE
E263	WPR	16.0A	120	1	REMOTE FILTER SYSTEM	WALL	96"	---
E300	SR/PMR	40.0A	120/208	3	HOT/COLD WELLS	FLOOR	4.5"	WATERPROOF RECEPTACLE
E302	SR/PMR	16.0A	120/208	1	HEATED TOP	FLOOR	4.5"	WATERPROOF RECEPTACLE
E303	DR/PMR	16.0A	120/208	1	FROST TOP	FLOOR	4.5"	WATERPROOF RECEPTACLE
E615	DR	5.0A	120	1	VIDEO / DATA SYSTEM	CLG	DFA	PROVIDE DCO AT VIDEO LOCATION
E708	JB	3.2A	208	3	SCRAP COLLECTOR	WALL	24"	<varies>
E800	DR	16.0A	120	1	REFRIGERATOR	CLG	DFA	BTC
E802	SR	16.8A	120	1	REFRIGERATED AIR SCREEN MERCHANDISER	WALL	24"	---

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER
11/16/2025

BOND2020
OUR CHILDREN. OUR COMMUNITY. OUR FUTURE.

B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

DALLAS INDEPENDENT SCHOOL DISTRICT
McKISSACK McKISSACK

Blair Elementary School

7720 Gayglen Dr. Dallas, TX 75228

ELECTRICAL ENLARGED PLAN - KITCHEN PLAN

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

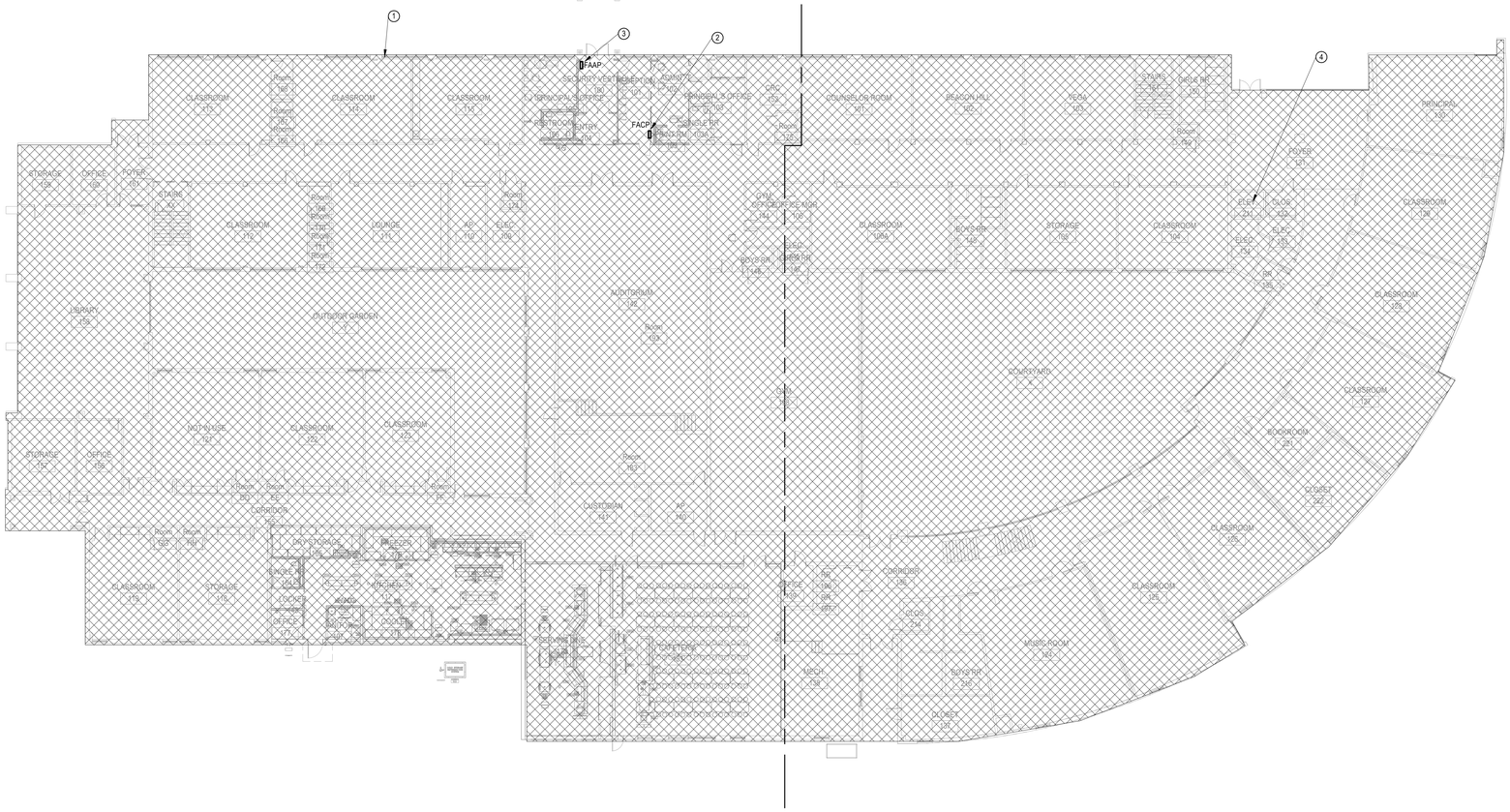
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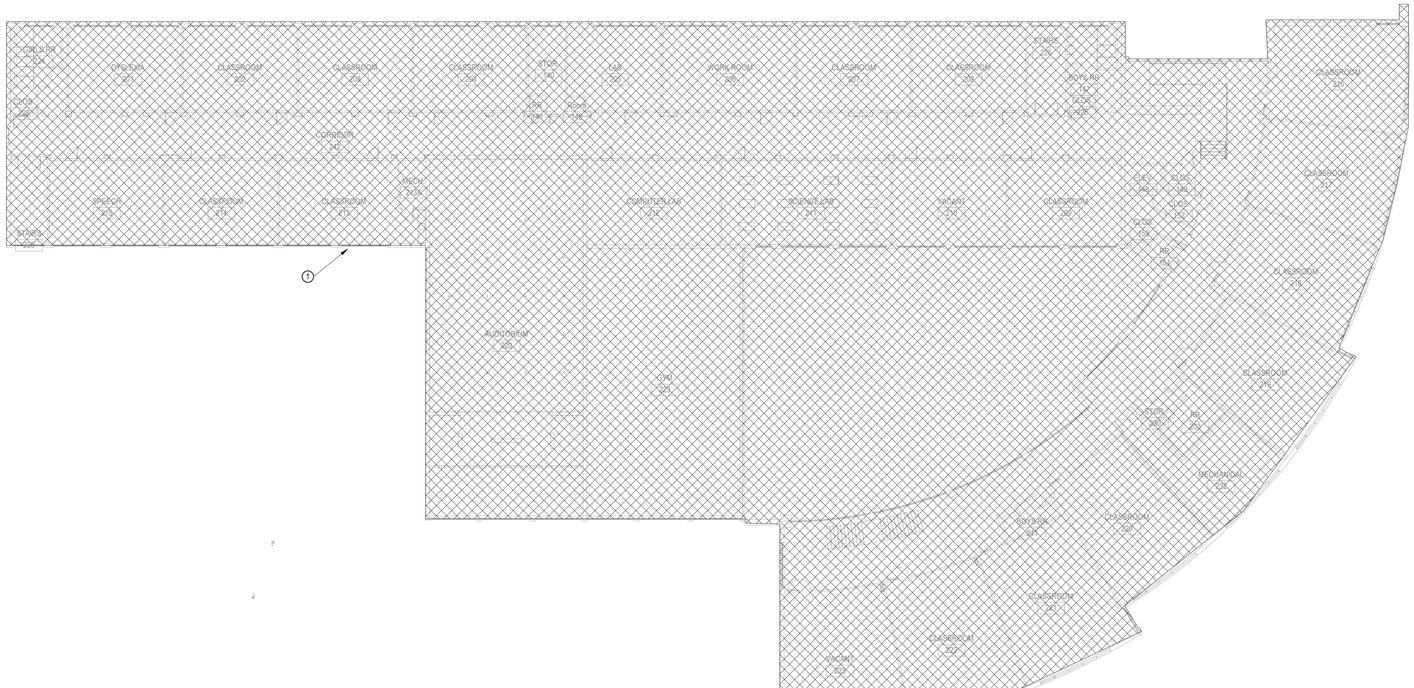
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ABBREVIATIONS:

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

TELECOMMUNICATIONS

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

SECURITY

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

AUDIO VISUAL

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

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 VELCRO 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.
WAP	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.

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

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) Suppression	Flow Detection	CS-GC	CS-GC	CS-GC
M&O	Alarms	Fire Alarm	Fire Alarm Wireless Radio (AES) Call-out, Panels, Cabling, Devices	CS-GC	CS-GC	CS-GC
IT	Infrastructure	E-Rate	Technology Infrastructure	IT-Infrastructur e 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	Network	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	CSS - Security Contractor	CS-GC	N/A
IT	Infrastructure	Network	MDF/IDF: High Heat Alarm Signal		CS-GC	CS-GC
IT/M&O	Infrastructure Electrical	Network	MDF/IDF: Lightning Protection System and Event Alert		CS-GC	CS-GC
IT	Infrastructure	Network	Portables	CS-GC	CS-GC	N/A
IT	Infrastructure	Network	UPS	IT-Network Equipment Contractor	CS-GC	CS-GC
IT	Infrastructure	Network	Wireless Access Points (WAPs)	IT-Network Equipment Contractor	CS-GC	N/A
IT	Infrastructure	Network	Cabling	IT - Cabling Contractor	CS-GC	N/A
IT	Infrastructure	Network	Patch Panels	IT - Cabling Contractor	N/A	N/A
IT	Infrastructure	Network	Racks (Floor Mounted)	CS-GC	N/A	CS-GC
IT	Infrastructure	Network	Racks (Wall Mounted)	CS-GC	N/A	CS-GC
IT	Infrastructure	Network	Patch Cables	IT - Technology Contractor	N/A	N/A
IT	Infrastructure	Network	Biometric Clocks (Bioclocks)	Cabling by IT-Cabling Contractor. Device provided by CS-GC purchased from IT-Biometric Clock Vendor	CS-GC	POE by IT-Cabling Contractor. Does not require line voltage power.
IT	Infrastructure	Network	POE Switch Network	IT-Network Equipment Contractor	N/A	N/A
M&O	Sound Stage	Voice Communications	PA, IP Integrated Electronic Communicati ons Network	CS-GC	CS-GC	CS-GC
M&O	Sound Stage	Network	Master Clock	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	Auditoriums: Sound System	CS-GC purchased from IT A/V Vendor	CS-GC	CS-GC
IT/AES	Audio-Visual Performing Arts	Distributed Audio-Video Communications Systems	Auditorium: Video Projector and Screen	CS-GC purchased from IT A/V Vendor	CS-GC	CS-GC
IT	Audio-Visual	Distributed Audio-Video Communications Systems	Multi-Purpose Rooms: Sound System	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	Cafetorium: 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	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	Patch Panels Security	CS-GC	N/A	N/A
IT/Police	CSS/EM	Network	POE Switches Security Devices	CS-GC	N/A	CS-GC
M&O	Alarms	Intrusion Detection System	Intrusion Wireless Call- Out, Panels, Keypads, 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	Secure Vestibule	See "Access Control", Div 28	CS-GC	CS-GC	CS-GC
IT/Police	CSS/EM	Access Control	Card Access/CCTV Headend	CS-GC	N/A	N/A
IT/Police	CSS/EM	Access Control	Control Panels	CS-GC	N/A	CS-GC
IT/Police	CSS/EM	Access Control	Card Readers	CS-GC	CS-GC	N/A
IT/Police	CSS/EM	Access Control	Door Contacts	CS-GC	CS-GC	N/A
IT/Police	CSS/EM	Access Control	Door Contacts	CS-GC	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: Masters	CS-GC	CS-GC	N/A
IT/Police	CSS/EM	Security: Electronic Surveillance	Cameras: Exterior	CS-GC	CS-GC	N/A
IT/Police	CSS/EM	Security: Electronic Surveillance	Cameras: Interior	CS-GC	CS-GC	N/A
IT/SPED	CSS	Safety & Security	SPED	CSS -	CS-GC	CS-GC
IT/Police	CSS/EM	Security: Electronic	Cabling: Switch to	CSS -	CS-GC	CS-GC
IT/Police	CSS/EM	Security: Electronic	Storage Servers	CSS -	N/A	CS-GC

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

STATE OF TEXAS · LAURA COWLEY · 121809 · LICENSED PROFESSIONAL ENGINEER

11/16/2025

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B&H
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandheng ineers.com
Registration No. 9102

DALLAS INDEPENDENT SCHOOL DISTRICT

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Blair Elementary

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TECHNOLOGY COVER SHEET

DRAWING RECORD

DATE	DESCRIPTION
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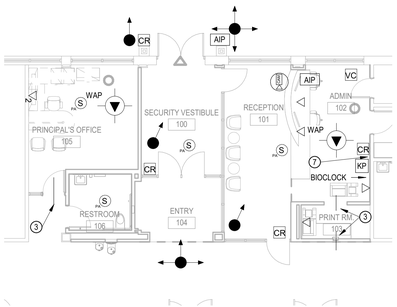
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PROJECT NO.: 2022200

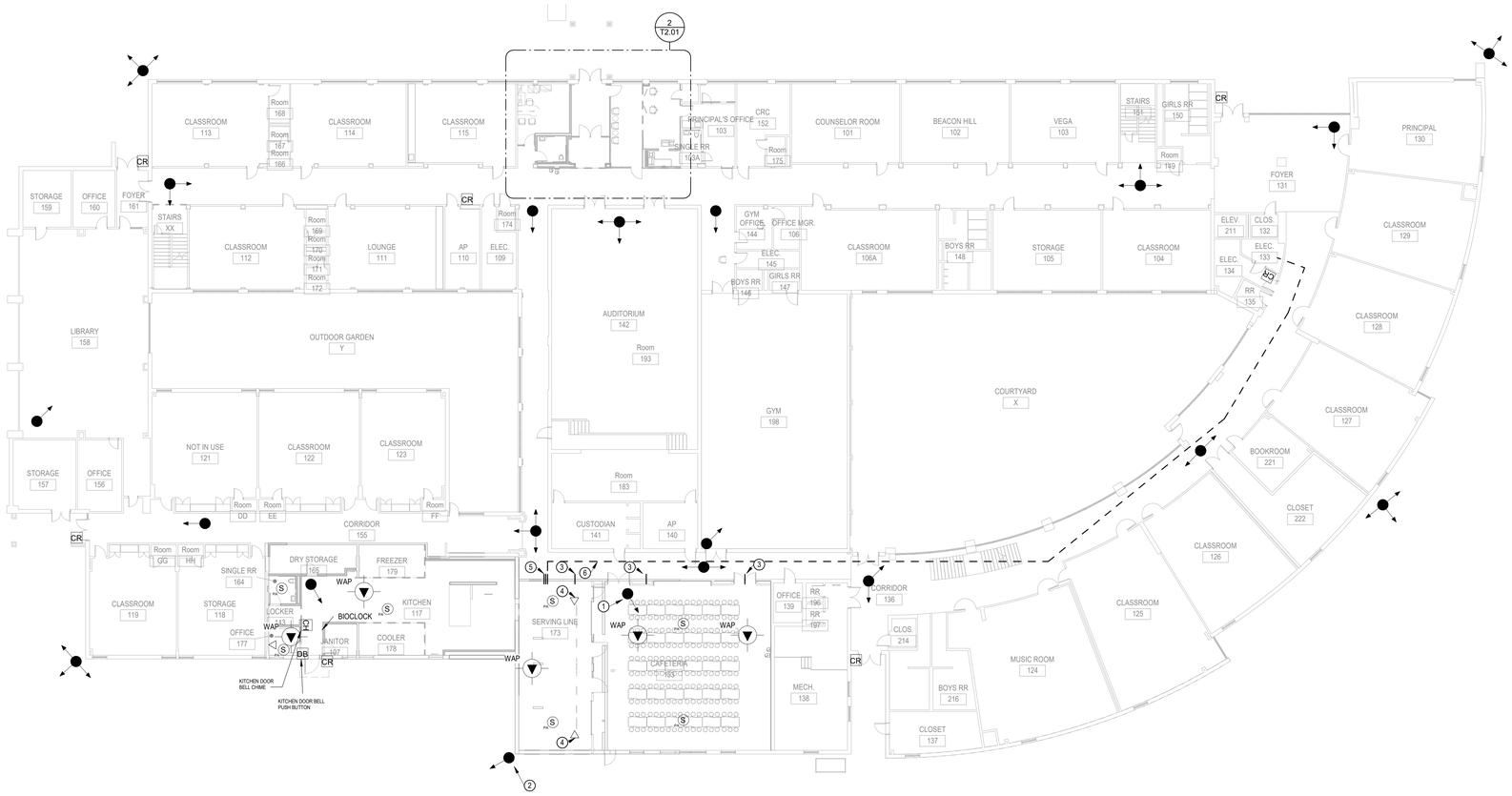
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2 TECHNOLOGY PLAN - ENLARGED ADMIN

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



1 TECHNOLOGY PLAN - OVERALL FIRST FLOOR

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

PLAN NORTH

TECHNOLOGY GENERAL NOTES:

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

NOTES BY SYMBOL:

1	REMOVE EXISTING CAMERA AND REINSTALL UPON COMPLETION OF CAFETERIA RENOVATION.
2	EXISTING CAMERA.
3	PROVIDE 2" SLEEVES THROUGH WALL.
4	PROVIDE 1" CONDUIT ROUTED IN CRAWLSPACE. ROUTE UP THROUGH FLOOR TO POINT OF SALE DEVICE.
5	PROVIDE 1" SLEEVES THROUGH WALL.
6	PROPOSED ROUTING OF (3) 1" CONDUIT TO WAPs.
7	PROPOSED LOCATION OF PA HEAD-END ALONG WALL. BELOW WALL-MOUNTED DEVICES. COORDINATE WITH DISD FOR FINAL LOCATION.

LEGEND

KP	SECURITY KEYPAD
CR	CARD READER
DC	DOOR CONTACTS
AIP	VIDEO INTERCOM
VC	VOLUME CONTROL
	CAMERAS BY CONVERGENT TECHNOLOGY/DISD SECURITY- PROVIDE J-BOX AND RUN CONDUIT TO NEAREST ACCESSIBLE CEILING. MOUNTING HEIGHT TO BE VERIFIED. (TYPICAL FOR ALL CAMERAS)

LAURA COWLEY IS RESPONSIBLE FOR CHANGES SINCE THE PREVIOUS 95% STAMPED PERMIT DRAWINGS.

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

STATE OF TEXAS
LAURA COWLEY
121809
REGISTERED
PROFESSIONAL ENGINEER
11/16/2025

511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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Blair Elementary School

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TECHNOLOGY PLAN - OVERALL FIRST FLOOR

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PROJECT NO.: 2022200

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TECHNOLOGY GENERAL NOTES:

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

LEGEND

KP	SECURITY KEYPAD
CR	CARD READER
DC	DOOR CONTACTS
AIP	VIDEO INTERCOM
VC	VOLUME CONTROL
	CAMERAS BY CONVERGENT TECHNOLOGY/DISD SECURITY- PROVIDE J-BOX AND RUN CONDUIT TO NEAREST ACCESSIBLE CEILING. MOUNTING HEIGHT TO BE VERIFIED. (TYPICAL FOR ALL CAMERAS)



1 TECHNOLOGY PLAN - OVERALL SECOND FLOOR
SCALE: 1/16" = 1'-0"

PLAN NORTH

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

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LAURA COWLEY
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B&H
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TECHNOLOGY PLAN - OVERALL SECOND FLOOR

DRAWING RECORD

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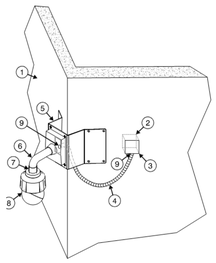
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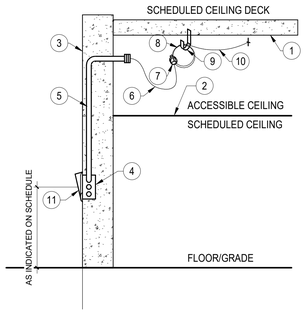


KEYED NOTES:

1. SCHEDULED EXTERIOR WALL (BY OTHERS).
2. 4 1/16-INCH X 4 1/16-INCH X 2 1/8-INCH DOUBLE GANG WATERPROOF BACKBOX INSTALLED FLUSH WITH THE BUILDING. CONTRACTOR SHALL INSTALL BACKBOX NO FURTHER THAN 18-INCHES FROM THE CORNER OF THE BUILDING (BY DIV. 26).
3. ADJUSTABLE SEAL TIGHT BACKBOX WATERPROOF COVERPLATE (BY DIV. 26)
4. 3/4-INCH SEAL TIGHT FROM BACKBOX COVER PLATE TO WALL MOUNTED CORNER BRACKET (BY DIV. 26).
5. CORNER BRACKET AS SPECIFIED (BY DIV. 28).
6. WALL MOUNT BRACKET AS SPECIFIED (BY DIV. 28).
7. PENDANT KIT AS SPECIFIED (BY DIV. 28).
8. SURVEILLANCE CAMERA AS SPECIFIED (BY DIV. 28).
9. WEATHERTIGHT GASKET / SILICONE TO PREVENT MOISTURE FROM ENTERING THE CAMERA, CONDUIT, OR PENETRATION. (BY DIV. 26 / 28).

9 TYPICAL EXTERIOR PTZ CORNER MOUNTED SURVEILLANCE CAMERA

SCALE: N.T.S.

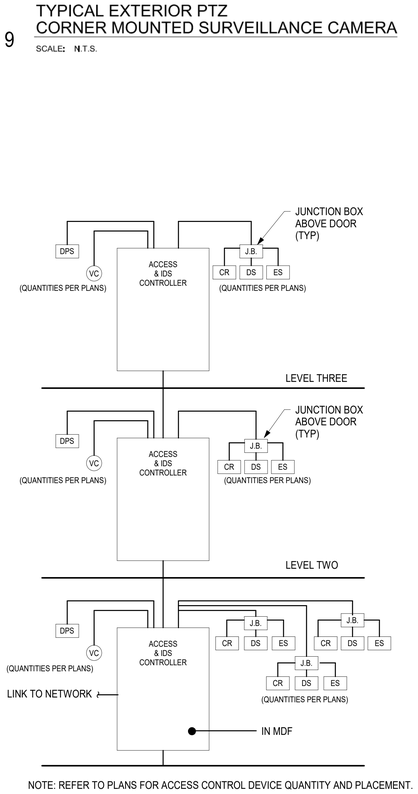


KEYED NOTES

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. 28).
11. VIDEO INTERCOM DOOR STATION AS SPECIFIED (BY DIV 28)

7 TYPICAL VIDEO INTERCOM DOOR STATION

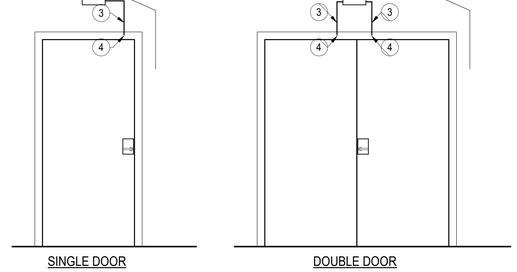
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NOTE: REFER TO PLANS FOR ACCESS CONTROL DEVICE QUANTITY AND PLACEMENT.

8 ACCESS & IDS CONTROLLER

SCALE: NOT TO SCALE

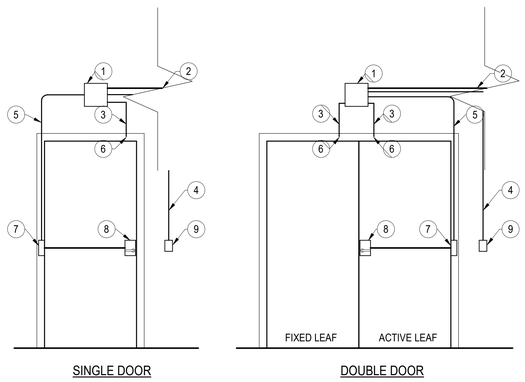


KEYED NOTES

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).

6 TYPICAL RECESSED DOOR POSITION SWITCHES

SCALE: NOT TO SCALE

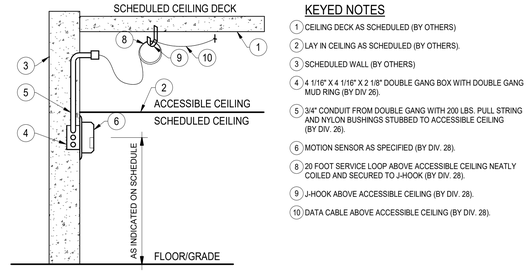


KEYED NOTES

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

SCALE: NOT TO SCALE

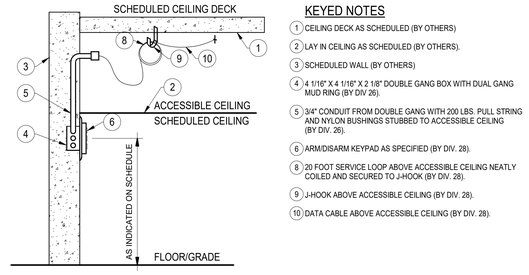


KEYED NOTES

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 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. MOTION SENSOR 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).

4 TYPICAL INTERIOR WALL MOUNTED MOTION SENSOR

SCALE: NOT TO SCALE

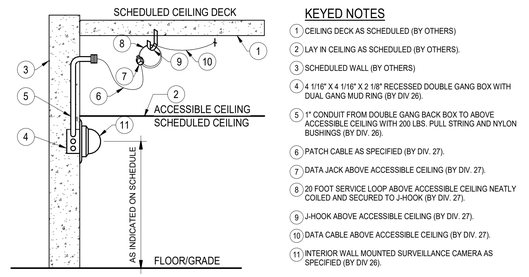


KEYED NOTES

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).

3 TYPICAL ARM/DISARM KEYPAD

SCALE: NOT TO SCALE

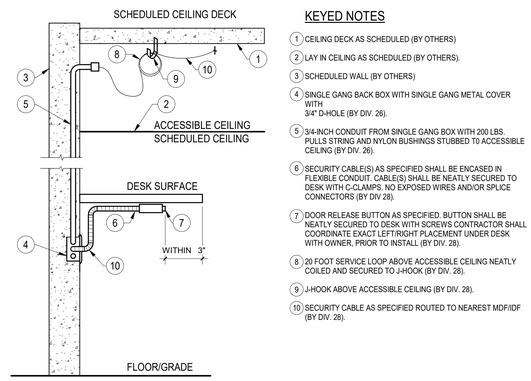


KEYED NOTES

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).

2 TYPICAL INTERIOR WALL MOUNTED SURVEILLANCE CAMERA

SCALE: 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. 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 T0 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).

1 TYPICAL UNDER DESK DOOR RELEASE BUTTON

SCALE: NOT TO SCALE

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

STATE OF TEXAS
LAURA COWLEY
121809
LICENSED
PROFESSIONAL ENGINEER
11/16/2025

BH&
511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
Bandhengineers.com
Registration No. 9102

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

DALLAS INDEPENDENT SCHOOL DISTRICT
McKISSACK McKISSACK

Blair Elementary School

7720 Gayglen Dr. Dallas, TX 75228

TECHNOLOGY DETAILS

DRAWING RECORD

DATE	DESCRIPTION
11/16/25	100% CD - ISSUE FOR BID

T3.01

PROJECT NO.: 2022200

LAURA COWLEY IS RESPONSIBLE FOR CHANGES SINCE THE PREVIOUS 95% STAMPED PERMIT DRAWINGS.

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REFER TO FOODSERVICE DESIGN PROFESSIONALS GENERAL SPECIFICATIONS FOR ADDITIONAL COORDINATION INFORMATION

FOODSERVICE DRAWING INDEX	
SHEET NUMBER	SHEET NAME
QF1	FS DRAWING INDEX & COORDINATION NOTES
QF1.0	FS EQUIPMENT PLAN
QF1.00	FS TEMPORARY SERVING LINE EQUIPMENT & ELECTRICAL PLAN
QF1.1	FS FACILITY MODEL
QF1.2	FS EQUIPMENT MODEL
QF1.3	FS SPECIAL CONDITIONS & MECHANICAL PLAN
QF1.4	FS PLUMBING PLAN
QF1.5	FS ELECTRICAL PLAN
QF1.6	FS EXHAUST HOODS
QF1.7	FS CONDENSING UNITS
QF1.10	FS ELEVATIONS
QF2	FS SECTIONS & DETAIL
QF2.1	FS DETAILS
QF2.2	FS DETAILS

DIVISION 26 (ELECTRICAL) RESPONSIBLE FOR BUT NOT LIMITED TO:

1. **DO NOT ROUGH-IN FROM THIS DRAWING. REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS. DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR AND ADJUSTED AS REQUIRED BY EQUIPMENT AND/OR FIELD CONDITIONS.**
2. SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF EXISTING EQUIPMENT.
3. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.
4. VERIFY ALL ELECTRICAL REQUIREMENTS WITH ENGINEERING DRAWINGS.
5. ROUGH-IN AND FINAL CONNECTION OF ELECTRICAL SYSTEMS TO FOODSERVICE EQUIPMENT, COLD STORAGE ASSEMBLIES, AND BETWEEN COMPONENTS (INCLUDING MATERIALS AND LABOR). ACCESSORIES PROVIDED LOOSE WITH FOODSERVICE EQUIPMENT BY SECTION 11 40 00 TO BE FIELD INSTALLED BY DIVISION 26.
6. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR REFRIGERANT PIPING TO REMOTE FOODSERVICE EQUIPMENT REFRIGERATION SYSTEMS.
7. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR INTERCONNECT CABLES BETWEEN LAN AND POS TERMINALS, CHANGE-MAKERS, PRE-CHECK UNITS, PRINTERS, CPUS, ETC. DIVISION 26 TO VERIFY WHERE CONDUIT IS TO RUN FOR POS SYSTEM (I.E.: MANAGER'S OFFICE OR IDF ROOM).
8. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR FIRE SUPPRESSION SYSTEMS. INTERCONNECT FIRE PROTECTION SYSTEM TO PANEL BOX SHUNT TRIPS AND BUILDING ALARM.
9. WALK IN LIGHT FIXTURE INSTALLATION (PROVIDED LOOSE BY SECTION 11 40 00).
10. TABLE LIMIT SWITCH INSTALLATION (PROVIDED LOOSE BY SECTION 11 40 00).
11. ELECTRICAL MATERIALS AND DEVICES (SHUNT-TRIP BREAKERS, SURGE PROTECTORS, LIGHTING CONTROL DEVICES, CONDUIT, WIRE, ETC.).
12. SWITCHES AND STAINLESS STEEL DISCONNECTS AS REQUIRED (PROVIDE, LOCATE, AND INSTALL – TO BE IN AN ACCESSIBLE LOCATION).
13. CHARGING STATIONS FOR FORKLIFTS, PALLET STACKERS, AND PALLET JACKS (SIZE, PROVIDE, LOCATE, AND INSTALL).
14. INTERCONNECTION BETWEEN CONDENSATE FAN AND DISHMACHINE CONTROL PANEL.
15. INTERCONNECTION BETWEEN EXHAUST HOOD FANS AND SWITCH.
16. INTERCONNECTION BETWEEN EXHAUST HOOD LIGHTS AND SWITCH.
17. DOOR HEATERS, LIGHTS, COILS AND PRESSURE RELIEF PORTS PRE-WIRED TO JUNCTION BOX AT TOP OF COLD STORAGE ASSEMBLIES PROVIDED BY SECTION 11 40 00. FINAL CONNECTION BY DIV. 26.
18. CORD AND PLUG ON EQUIPMENT THAT DOES NOT COME WITH CORDS/PLUG (I.E.: BRAISING PANS, KETTLES, ICE MACHINES, STEAMERS, COMBI OVENS, ETC.) (PROVIDE AND INSTALL).
19. PROVIDE WATERPROOF RECEPTACLES IN WET AREAS.
20. ALL ELECTRICAL CONNECTIONS BENEATH EXHAUST HOODS TO EXTEND TO SHUNT TRIP BREAKERS WITH ELECTRICAL PANEL BOX FOR SHUTDOWN DURING FIRE MODE.
21. RECEPTACLES TO BE PRE-WIRED TO JUNCTION BOX OR LOAD CENTER FOR FINAL CONNECTION BY DIVISION 26.
22. ALL ELECTRICAL LIGHTING, POWER, AND DISTRIBUTION SYSTEMS.
23. DO NOT INTERCONNECT MORE THAN THREE (3) CONVENIENCE OUTLETS ON ONE (1) BREAKER.
24. OTHER THAN CONVENIENCE OUTLETS, ALL ELECTRICAL CONNECTIONS SHOWN ON FOODSERVICE PLANS ARE DEDICATED BREAKERS.
25. DOORBELL AT RECEIVING DOOR (PROVIDE AND INSTALL – TO BE AUDIBLE THROUGHOUT KITCHEN, OFFICE AND DRY STORAGE ROOM).
26. ADEQUATE LIGHTING AT RECEIVING DOOR.

NOTE: ELECTRICAL CONNECTIONS INDICATED ARE THOSE REQUIRED FOR THE FOODSERVICE EQUIPMENT AND THOSE REQUIRED FOR SUPPORT EQUIPMENT FURNISHED BY DIVISION 26. FOR ADDITIONAL REQUIREMENTS REFER TO ELECTRICAL ENGINEER'S DRAWINGS.

7 ELECTRICAL COORDINATION NOTES
NOT TO SCALE

EXISTING EQUIPMENT NOTES:

1. EXISTING EQUIPMENT NOT SCHEDULED FOR RE-USE TO BE RELOCATED BY THE K.E.C. COORDINATE WITH OWNER FOR NEW LOCATION.
2. ALL UTILITIES NOT SCHEDULED FOR RE-USE TO BE CAPPED & COVERED BY REQUIRED DISCIPLINE.
3. K.E.C. TO VERIFY ALL EXISTING UTILITY LOCATIONS & COORDINATE WITH ALL EQUIPMENT AS REQUIRED.

6 EXISTING EQUIPMENT NOTES
NOT TO SCALE

CRITICAL NOTES:

1. CONTRACTOR MUST COORDINATE AND VERIFY ALL DIMENSIONS WITH FOODSERVICE EQUIPMENT SHOP DRAWINGS AND MANUFACTURER'S DATA. DIMENSIONS SHOWN ARE FOR DESIGN AND BIDDING PURPOSES ONLY.
2. WALK-IN DOORS MUST BE LEFT OPEN WHILE INTERIOR CONCRETE WALK-IN FLOOR CURES.
3. INSTALL PROTECTIVE COVER ON WALK-IN WALLS BEFORE INSTALLING CONCRETE FLOORS AND CURBS.

5 SPECIAL CONDITIONS CRITICAL NOTES
NOT TO SCALE

DIVISION 22 (PLUMBING) RESPONSIBLE FOR BUT NOT LIMITED TO:

1. **DO NOT ROUGH-IN FROM THIS DRAWING. REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS. DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR AND ADJUSTED AS REQUIRED BY EQUIPMENT AND/OR FIELD CONDITIONS.**
2. SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF EXISTING EQUIPMENT.
3. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.
4. VERIFY ALL PLUMBING REQUIREMENTS WITH ENGINEERING DRAWINGS.
5. EMPTY PVC CONDUIT WITH WIDE-SWEEP BENDS FOR REFRIGERANT PIPING TO BEVERAGE LINES, CO2 LINES, AND REMOTE FOOD SERVICE EQUIPMENT REFRIGERATION SYSTEMS.
6. ROUGH-IN AND FINAL PLUMBING CONNECTIONS TO FOODSERVICE EQUIPMENT AND BETWEEN COMPONENTS (INCLUDING MATERIALS AND LABOR). ACCESSORIES PROVIDED LOOSE WITH FOODSERVICE EQUIPMENT BY SECTION 11 40 00 TO BE FIELD INSTALLED BY DIVISION 22. THIS INCLUDES BUT IS NOT LIMITED TO INSTALLATION OF ALL FAUCETS (WATER FILL FAUCETS, PRE-RINSE FAUCETS, ETC.), HOSES, GAS DISCONNECTS, AND DRAINS FROM EQUIPMENT POINT OF CONNECTION TO BUILDING PLUMBING SYSTEMS.
7. KITCHEN EQUIPMENT CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FAUCETS (WATER FILL FAUCETS, PRE-RINSE FAUCETS, ETC.), DRAIN FITTINGS, MIXING VALVES, CONTROL VALVES, WATER PRESSURE REGULATORS, VACUUM BREAKERS, AND ALL ACCESSORIES FOR EQUIPMENT SPECIFIED UNDER 11 40 00. DIVISION 22 IS RESPONSIBLE FOR INSTALLATION.
8. INDIRECT DRAIN LINE RUNS FROM EQUIPMENT TO NEAREST DRAIN OR FLOOR SINK. LINES TO BE COPPER.
9. GAS SUPPLY SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM.
10. WATER SUPPLY SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM.
11. COMPRESSED AIR SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM.
12. PIPING AND DRAINAGE SYSTEMS (SANITARY AND GREASE LADEN). SYSTEMS TO BE CLEANED PRIOR TO FINAL CONNECTION WITH FOODSERVICE EQUIPMENT.
13. FLOOR SINKS (PROVIDE AND INSTALL). FLANGE AND GRATES TO BE FLUSH WITH FINISHED FLOOR.
14. FLOOR DRAINS (PROVIDE AND INSTALL). FLANGE AND GRATES TO BE FLUSH WITH FINISHED FLOOR.
15. TRENCH DRAINS (PROVIDE AND INSTALL). TRENCH LINERS PROVIDED BY 11 40 00. FLANGE AND LINERS TO BE FLUSH WITH FINISHED FLOOR.
16. GREASE TRAPS AS REQUIRED. VERIFY WITH LOCAL CODES TO BYPASS OR PIPE THRU GREAST TRAP AND/OR INTERCEPTOR.
17. P-TRAPS AS REQUIRED (INCLUDING ALL DISPOSERS).
18. INTERCONNECT WATER THRU WATER FILTER (FILTER PROVIDED BY 11 40 00 UNLESS OTHERWISE SPECIFIED) TO EQUIPMENT.
19. GAS QUICK DISCONNECT INSTALLATION (QUICK DISCONNECT PROVIDED BY 11 40 00).
20. SAFETY RESTRAINT CABLE INSTALLATION (SAFETY RESTRAINT CABLE PROVIDED BY 11 40 00).
21. SPECIFIED COUPLINGS AND PIPING TO ALL EQUIPMENT FURNISHED BY 11 40 00.
22. AIR COMPRESSORS (SIZE, PROVIDE, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
23. WATER SOFTENERS (SIZE, PROVIDE, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
24. PRESSURE BOILERS (SIZE, PROVIDE, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
25. HAND SINKS (PROVIDE (UNLESS OTHERWISE SPECIFIED) AND INSTALL). PROVIDE HOT WATER TEMPERING VALVE IF REQUIRED.
26. ICE BIN DRAIN INSULATION (PROVIDE AND INSTALL).
27. UNIONS AT DISPOSER SOLENOID VALVES (PROVIDE AND INSTALL).
28. BACK FLOW PREVENTION AS REQUIRED (PROVIDE AND INSTALL - INCLUDING ALL DISPOSERS). BACK- SIPHONAGE SHALL BE INSTALLED AT ALL FIXTURES AND EQUIPMENT WHERE BACKFLOW AND/OR BACK-SIPHONAGE MAY OCCUR AND WHERE A MINIMUM AIR GAP CANNOT BE PROVIDED BETWEEN THE WATER TO THE FIXTURE OR EQUIPMENT AT ITS FLOOD/LEVEL RIM. VACUUM BREAKERS, WHEN FURNISHED WITH EQUIPMENT, SHALL OVERRIDE THE ABOVE, IF ACCEPTABLE WITH APPLICABLE CODES. DIVISION 22 RESPONSIBLE FOR VERIFYING REQUIREMENT WITH LOCAL CODES.
29. JANITOR SINK WITH FAUCET (PROVIDE AND INSTALL).
30. FREEZE PROOF HOSE BIBB AT EXTERIOR OF BUILDING BY RECEIVING DOOR (PROVIDE AND INSTALL - UNLESS OTHERWISE SPECIFIED).
31. REVERSE OSMOSIS SYSTEMS (SIZE, PROVIDE (UNLESS OTHERWISE SPECIFIED), LOCATE AND INSTALL).
32. ALL PIPING WITHIN COUNTER BODY OR UNDER FABRICATED COUNTERS TO BE RUN TO A CONNECTION POINT BELOW COUNTER BODY BY SECTION 11 40 00. FINAL CONNECTION BY DIVISION 22.
33. EXHAUST HOOD CONDENSATE DRAIN CONNECTIONS (PROVIDE AND INSTALL).
34. INTERCONNECTION OF 1/2" CW TO PRE-RINSE AND DISPOSERS CONE/BODY INLETS PIPED THROUGH SOLENOID AND VACUUM BREAKER.
35. FIRE SYSTEM PIPING. EXPOSED PIPING TO BE CHROME PLATED.
36. PIPE 1/2" COLD WATER TO SWIRL INLETS AT DISPOSERS.
37. WATER TREATMENT FOR ICE BUILDERS (NON-CHLORINATED WATER WITH A PH LEVEL OF 10 OR HIGHER) AND ANY DRAINS AND OVERFLOWS. PIPING FROM ICE BUILDERS TO TUMBLE CHILLERS BY DIV. 23.

NOTE: WATER AND DRAIN CONNECTIONS INDICATED ARE THOSE REQUIRED FOR THE FOODSERVICE EQUIPMENT AND THOSE REQUIRED FOR SUPPORT EQUIPMENT FURNISHED BY DIVISION 22. FOR ADDITIONAL WATER AND DRAIN REQUIREMENTS REFER TO MECHANICAL DRAWINGS.

NOTE: REFER TO ELECTRICAL/MECHANICAL DRAWINGS FOR REQUIREMENTS OF EXHAUST FANS AND MAKE-UP AIR HANDLERS AND LOCATION OF AN INTERLOCK AND START/STOP CONTROLS TO BE LOCATED WITHIN FOODSERVICE AREA BY DIVISION 26.

4 PLUMBING COORDINATION NOTES
NOT TO SCALE

DIVISION 23 (MECHANICAL) RESPONSIBLE FOR BUT NOT LIMITED TO:

1. **DO NOT ROUGH-IN FROM THIS DRAWING. REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS. DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR AND ADJUSTED AS REQUIRED BY EQUIPMENT AND/OR FIELD CONDITIONS.**
2. SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF EXISTING EQUIPMENT.
3. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.
4. VERIFY ALL MECHANICAL REQUIREMENTS WITH ENGINEERING DRAWINGS.
5. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR REFRIGERANT PIPING TO REMOTE FOODSERVICE EQUIPMENT REFRIGERATION SYSTEMS.
6. ROUGH-IN AND FINAL CONNECTION OF MECHANICAL SYSTEMS TO FOODSERVICE EQUIPMENT, COLD STORAGE ASSEMBLIES, AND BETWEEN COMPONENTS (INCLUDING MATERIALS AND LABOR).
7. TESTING AND BALANCING FOR ROOMS AND EXHAUST HOODS TO BE PERFORMED BY MECHANICAL CONTRACTOR. BALANCE REPORT FOR FOODSERVICE EXHAUST HOODS TO BE PROVIDED TO FOODSERVICE DESIGN PROFESSIONALS (FDP) IMMEDIATELY UPON COMPLETION (SEND TO HOUSTON.SUBMITTAL@FDP.ORG) AND MUST BE SUBMITTED WITH O&M MANUALS.
8. EXHAUST HOODS, CONDENSATE HOODS, FIRE SUPPRESSION SYSTEMS, CONNECTIONS AND CONTROLS (PROVIDE AND INSTALL – *UNLESS OTHERWISE SPECIFIED*).
   A. IF EXHAUST/CONDENSATE HOODS AND FIRE SUPPRESSION SYSTEMS ARE SPECIFIED UNDER SECTION 11 40 00, DIVISION 23 IS RESPONSIBLE FOR ALL EXHAUST AND CONDENSATE HOOD CONNECTIONS (PROVIDE AND INSTALL).
9. VFD SYSTEM AND CONTROLLERS WHEN REQUIRED BY CODE (PROVIDE AND INSTALL).
10. PROVIDE AND INSTALL ALL VENTILATION (DIRECT OR INDIRECT), AIR CONDITIONING, AND HEATING SYSTEMS (UNLESS OTHERWISE SPECIFIED).
11. COORDINATE SUPPLY AND RETURN DUCTS ABOVE SERVING COUNTERS. NO COLD AIR BLOWN DIRECTLY ON HOT FOOD COUNTERS.
12. COORDINATE SUPPLY AND RETURN DUCTS AWAY FROM EQUIPMENT WITH TOP MOUNTED REFRIGERATION. NO AIR BLOWN DIRECTLY ON COMPRESSORS.
13. MECHANICAL CONTRACTOR TO LOCATE TEMPERATURE MONITORS WITHIN RETURN DUCTS.
14. CIRCULATING AIR ABOVE COLD STORAGE ASSEMBLIES (PROVIDE AND INSTALL).
15. CIRCULATING AIR ABOVE AND IN AIR GAPS AT WAREHOUSE COLD STORAGE ASSEMBLIES (PROVIDE AND INSTALL).
16. WATER CHILLERS AS REQUIRED (PROVIDE, SIZE AND LOCATE).
17. PIPING FROM ICE BUILDERS TO TUMBLE CHILLERS (PROVIDE, SIZE AND LOCATE).

3 MECHANICAL COORDINATION NOTES
NOT TO SCALE

GENERAL CONTRACTOR RESPONSIBLE FOR BUT NOT LIMITED TO:

1. ANY WALL PENETRATION REQUIRED FOR FOODSERVICE EQUIPMENT UTILITIES. ESCUTCHEON PLATES OR S/S SLEEVES TO BE PROVIDED AND INSTALLED AS NEEDED.
2. BULK FREEZER VENTILATION PIPE (PROVIDE AND INSTALL, UNLESS OTHERWISE SPECIFIED).
3. CORE DRILLING FOR GUIDE RAILS.
4. REFRIGERATION ROOF CURBS / ROOF JACK.
5. INTERIOR BOLLARDS – TO BE EPOXY PAINTED PER LOCAL CODES (PROVIDE AND INSTALL).
6. FURNISH AND INSTALL 3/4" PLYWOOD BLOCKING IN WALL FOR MOUNTING EQUIPMENT FURNISHED BY SECTION 11 40 00 AS REQUIRED.
7. WALK-IN DEPRESSIONS (TO BE DEAD LEVEL) AND SAND LEVELING BED.
8. STRUCTURAL BRACING FOR BULK WALK-IN CEILING PANELS IF REQUIRED.
9. MENU SYSTEM VIDEO MONITORS IN SERVERY (UNLESS OTHERWISE SPECIFIED).
10. STRUCTURAL BRACING FOR MENU SYSTEM VIDEO MONITORS IF REQUIRED.
11. INTERIOR/EXTERIOR REFRIGERATION PENETRATIONS AND SLEEVES AT BUILDING PENETRATIONS.
12. PEEPHOLE AT RECEIVING DOOR.
13. CANOPY AT RECEIVING DOOR.
14. SOAP AND TOWEL DISPENSER PROVIDED BY OWNER. G.C. RESPONSIBLE FOR INSTALLATION.
15. WASHER AND DRYER (PROVIDE AND INSTALL, UNLESS OTHERWISE SPECIFIED).
17. DWARF-WALL AT EXPOSED FRONT/ENDS OF CAFETERIA SERVING COUNTERS WITH FINISH AS SELECTED BY ARCHITECT.

2 GENERAL CONTRACTOR COORDINATION NOTES
NOT TO SCALE

HEALTH DEPARTMENT NOTES:

1. FLOORS: VERIFY WITH DIVISION 9. FLOORS TO BE SMOOTH, IMPERVIOUS, EASILY CLEANABLE AND SLIP RESISTANT.
2. WALLS: VERIFY WITH ARCHITECTURAL DOCUMENTS. WALLS TO BE SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE.
3. CEILING: LAY-IN TILES. CEILING TILES TO BE SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE.
4. EMPLOYEE TOILET: TO BE LOCATED OFF MAIN CORRIDOR AND ADJACENT TO MAIN KITCHEN. RESTROOM MUST HAVE A VESTIBULE AND NOT OPEN TO KITCHEN / PREP AREAS. TOILETS TO BE WELL VENTILATED.
5. LAVATORIES: WALL HUNG LAVATORIES LOCATED WITHIN ALL FUNCTIONAL WORKING AREAS.
6. UTENSIL CLEANING/SANITIZING: ACCOMPLISHED IN UTENSIL WASH AREA WITH (3) 2'-0" x 2'-2" x 15" MINIMUM DEEP SINKS AND WAREWASH MACHINE.
7. MECHANICAL CLEANING/SANITIZING OF TABLEWARE: ACCOMPLISHED BY WAREWASH MACHINE.
8. STOREROOMS: AMPLE DAILY STORAGE PROVIDED IN ENCLOSED STORE ROOMS. STOREROMS TO BE VENTILATED AND MAINTAIN PROPER TEMPERATURE.
9. WATER HEATER: LOCATED IN MECHANICAL ROOM ADJACENT TO KITCHEN. TO BE SIZED TO PROVIDE AMPLE WATER TO MAINTAIN PROPER WATER TEMPERATURE THROUGHOUT HOURS OF OPERATION.
10. GREASE TRAP: LOCATED AT EXTERIOR OF BUILDING. REFER TO ENGINEERS DRAWINGS.
11. FOODSERVICE EQUIPMENT: ALL FLOOR MOUNTED EQUIPMENT TO BE SEALED TO FLOOR TO PROVIDE EASILY CLEANABLE SURFACE AND PREVENT SEEPAGE. EQUIPMENT NOT MOUNTED TO FLOOR TO BE WALL MOUNTED ON WALL CARRIERS, OR ELEVATED ON LEGS TO PROVIDE AT LEAST A SIX-INCH CLEARANCE BETWEEN FLOOR AND EQUIPMENT.
12. MOP SINK: LOCATED IN JANITOR CLOSET OFF MAIN KITCHEN CORRIDOR, AND SERVERY WAREWASH AREA.
13. EXHAUST HOODS: EXHAUST HOODS PROVIDED OVER COOKING EQUIPMENT WITH LIQUID CHEMICAL ANSUL FIRE EXTINGUISHING SYSTEM.
14. LIGHTING AND PROTECTIVE SHIELDING: RECESSED CEILING MOUNTED FLUORESCENT LIGHT FIXTURES FITTED WITH CLEAR LEXAN DIFFUSERS.
15. GARBAGE AND REFUSE: CENTRAL TRASH COLLECTION PROVIDED FOR BUILDING LOCATED NEAR RECEIVING AREA ON SMOOTH CONCRETE SURFACE.
16. POISONOUS AND TOXIC MATERIAL STORAGE: LOCATED IN RESPECTIVE JANITOR CLOSETS WITH LOCKING HARDWARE.

1 HEALTH DEPARTMENT NOTES
NOT TO SCALE

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FS DRAWING INDEX & COORDINATION NOTES

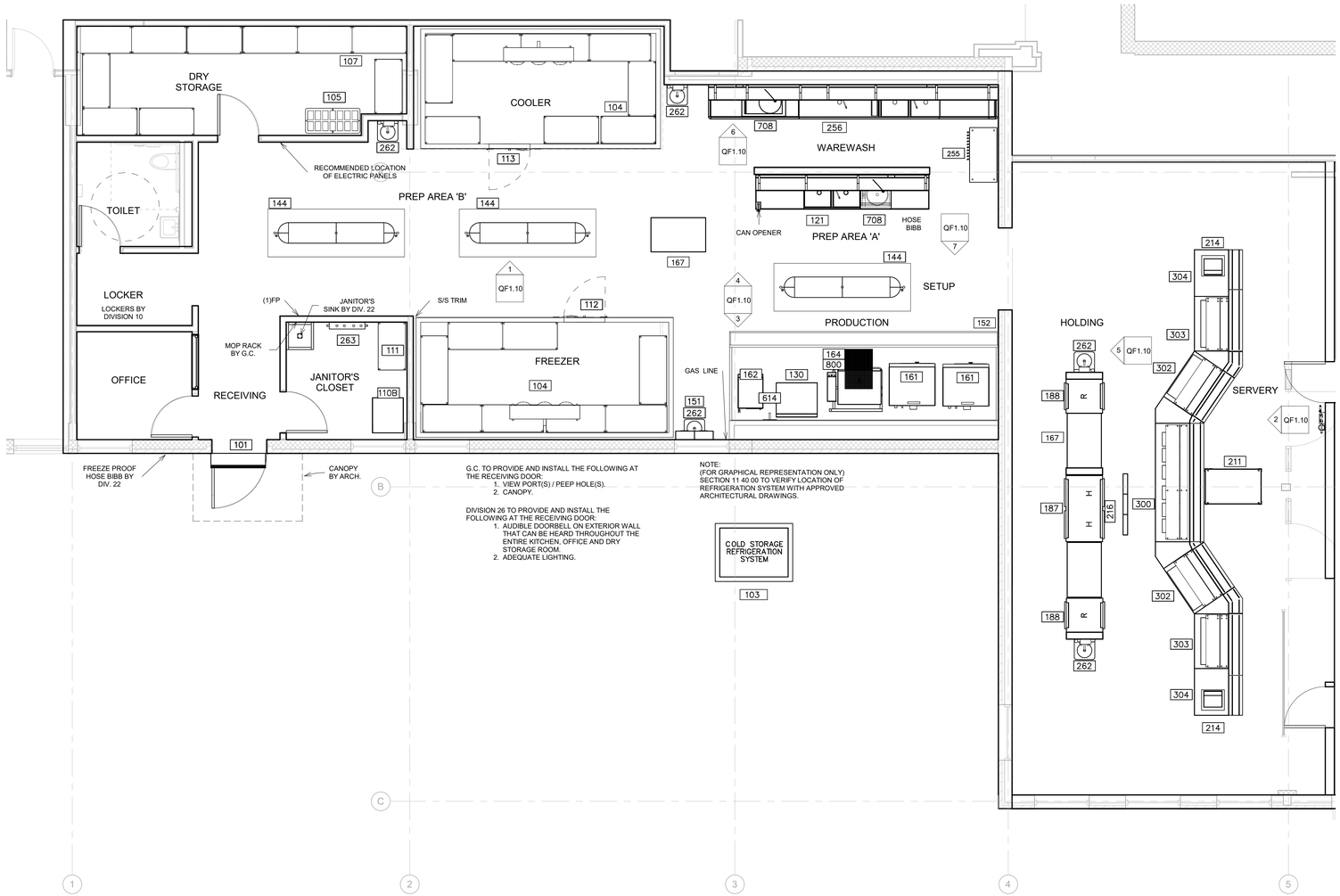
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PROJECT NO.: 2022200

FOODSERVICE EQUIPMENT SCHEDULE			
FDP ITEM	QTY	FDP DESCRIPTION	FDP REMARKS
101	1	AIR SCREEN	
103	1	COLD STORAGE REFRIGERATION SYSTEM	
104	2	COLD STORAGE SHELVING	OWNER FURNISHED/OWNER INSTALLED
105	1	DUNNAGE RACK	OWNER FURNISHED/OWNER INSTALLED
107	1	DRY STORAGE SHELVING	OWNER FURNISHED/OWNER INSTALLED
110B	1	STACKED WASHER/DRYER	
111	1	CHEMICAL SHELF	EXISTING / RELOCATE
112	1	FREEZER STORAGE ASSEMBLY	
113	1	COOLER STORAGE ASSEMBLY	
121	1	TWO COMPARTMENT SINK W/SCRAP SINK	
130	1	WORKTABLE	
144	3	WORKTABLE W. DBL.BAR UT.RACK	
151	1	FIRE PROTECTION SYSTEM	
152	1	EXHAUST HOOD	
161	2	CONVECTION OVEN	(1) EXISTING/RELOCATE (1) OWNER FURNISHED/OWNER INSTALLED
162	1	DBL CONVECTION STEAMER - GAS	EXISTING / RELOCATE
164	1	40 GAL. TILT BRAISING PAN-GAS MANUAL TILT	
167	2	MOBILE WORKTABLE	
187	1	PASS-THRU HEATED CABINET- 2DR	OWNER FURNISHED/OWNER INSTALLED
188	2	PASS-THRU REFRIGERATOR - 1DR	OWNER FURNISHED/OWNER INSTALLED
211	1	DROP FRONT MILK COOLER - 12 CASE	
214	2	CASH REGISTER	OWNER FURNISHED/OWNER INSTALLED
216	1	MENU BOARD	OWNER FURNISHED/OWNER INSTALLED
255	1	MOBILE UTENSIL SHELF	
256	1	POWERWASH SINK	
262	5	HAND SINK	
263	1	REMOTE WATER FILTER SYSTEM	
300	1	HOT/COLD WELLS	
302	2	HEATED TOP	
303	2	FROST TOP	
304	2	CASHIER COUNTER	
614	1	FILL FAUCET	
708	2	SCRAP COLLECTOR	
800	1	TRENCH LINER	



1 FOODSERVICE EQUIPMENT PLAN
1/4" = 1'-0"

0' 2' 4' 8' 16'

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FS EQUIPMENT PLAN

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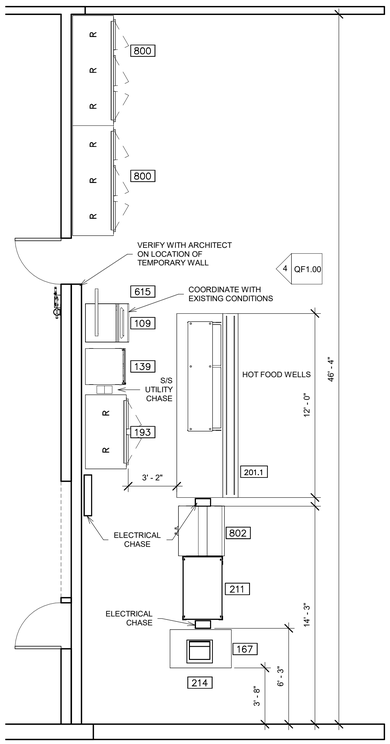
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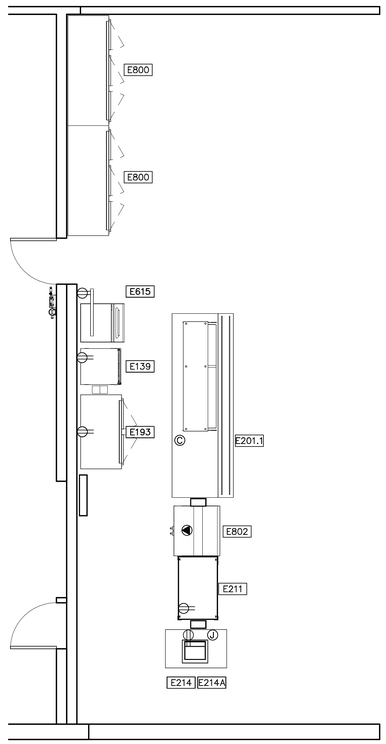
FOODSERVICE EQUIPMENT SCHEDULE TEMPORARY SERVING LINE			
FDP ITEM	QTY	FDP DESCRIPTION	FDP REMARKS
109	1	ICE MAKER WITH BIN - 500 LB CAPACITY	EXISTING
139	1	INSUL. MOBILE PROOFER	EXISTING / RELOCATE
167	1	MOBILE WORKTABLE	EXISTING / RELOCATE
193	1	REACH-IN REFRIGERATOR-2DR	EXISTING / RELOCATE
201.1	1	SERVING COUNTER	EXISTING / RELOCATE
211	1	DROP FRONT MILK COOLER - 12 CASE	EXISTING / RELOCATE
214	1	CASH REGISTER	OWNER FURNISHED/OWNER INSTALLED
615	1	MENU MONITOR	EXISTING
800	2	REACH-IN REFRIGERATOR-3DR	EXISTING
802	1	REFRIGERATED AIR SCREEN MERCHANDISER	EXISTING / RELOCATE

FOODSERVICE ELECTRICAL SCHEDULE TEMPORARY SERVING LINE								
FDP ENO	FDP ECONN	FDP ELOAD	FDP EVOLT	FDP EPH	FDP ESERVICE TO	FDP ELOC	FDP EAFF	FDP EREMARKS
E139	SR	15.0A	120	1	INSUL. MOBILE PROOFER	CLG	DFA	--
E193	JB	8.2A	120	1	REFRIGERATOR	CLG	DFA	BTC; OMIT PLUG, UNIT TO BE HARDWIRED
E201.1	SR	16.0A	120	1	FROST TOP	CLG	DFA	---
E211	DR	8.0A	120	1	DROP FRONT MILK COOLER-12 CASE	CLG	DFA	---
E214	DR/PMR	16.0A	120	1	CASH REGISTER	CLG	DFA	DEDICATED CIRCUIT
E214A	JB	---	---	-	POS	CLG	DFA	BTC: EMPTY CONDUIT
E615	DR	5.0A	120	1	VIDEO / DATA SYSTEM	CLG	DFA	PROVIDE DCO AT VIDEO LOCATION
E800	DR	16.0A	120	1	REFRIGERATOR	CLG	DFA	BTC

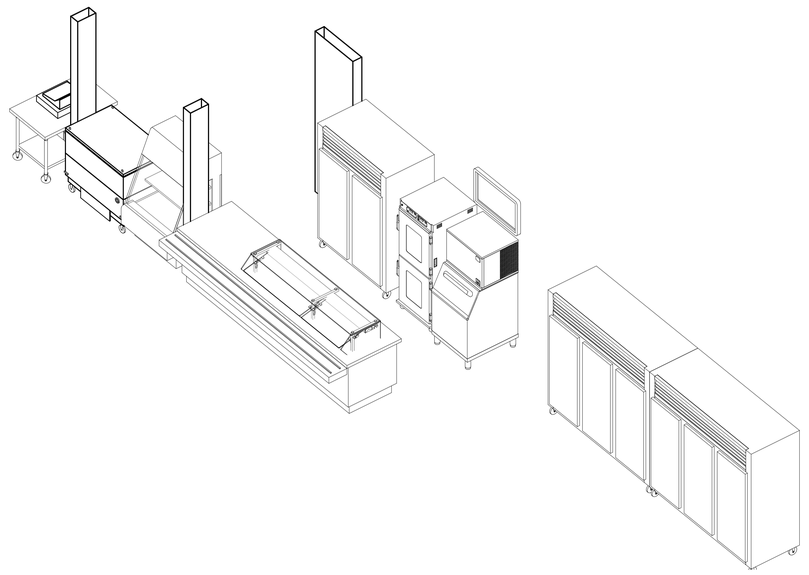
GC TO BE RESPONSIBLE FOR PATCHING & REPAIRING DAMAGES AFTER TEMPORARY LINE IS REMOVED.



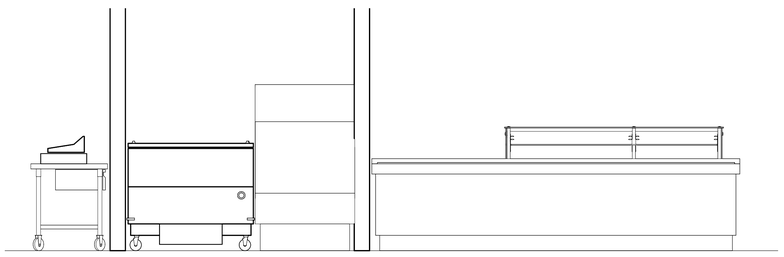
2 FOODSERVICE EQUIPMENT PLAN TEMPORARY SERVING LINE
1/4" = 1'-0"



1 FOODSERVICE ELECTRICAL PLAN TEMPORARY SERVING LINE
1/4" = 1'-0"



3 FS TEMPORARY SERVING LINE EQUIPMENT ONLY



4 ELEVATION @ TEMP SERVING COUNTER
1/2" = 1'-0"

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FS TEMPORARY SERVING LINE EQUIPMENT & ELECTRICAL PLAN

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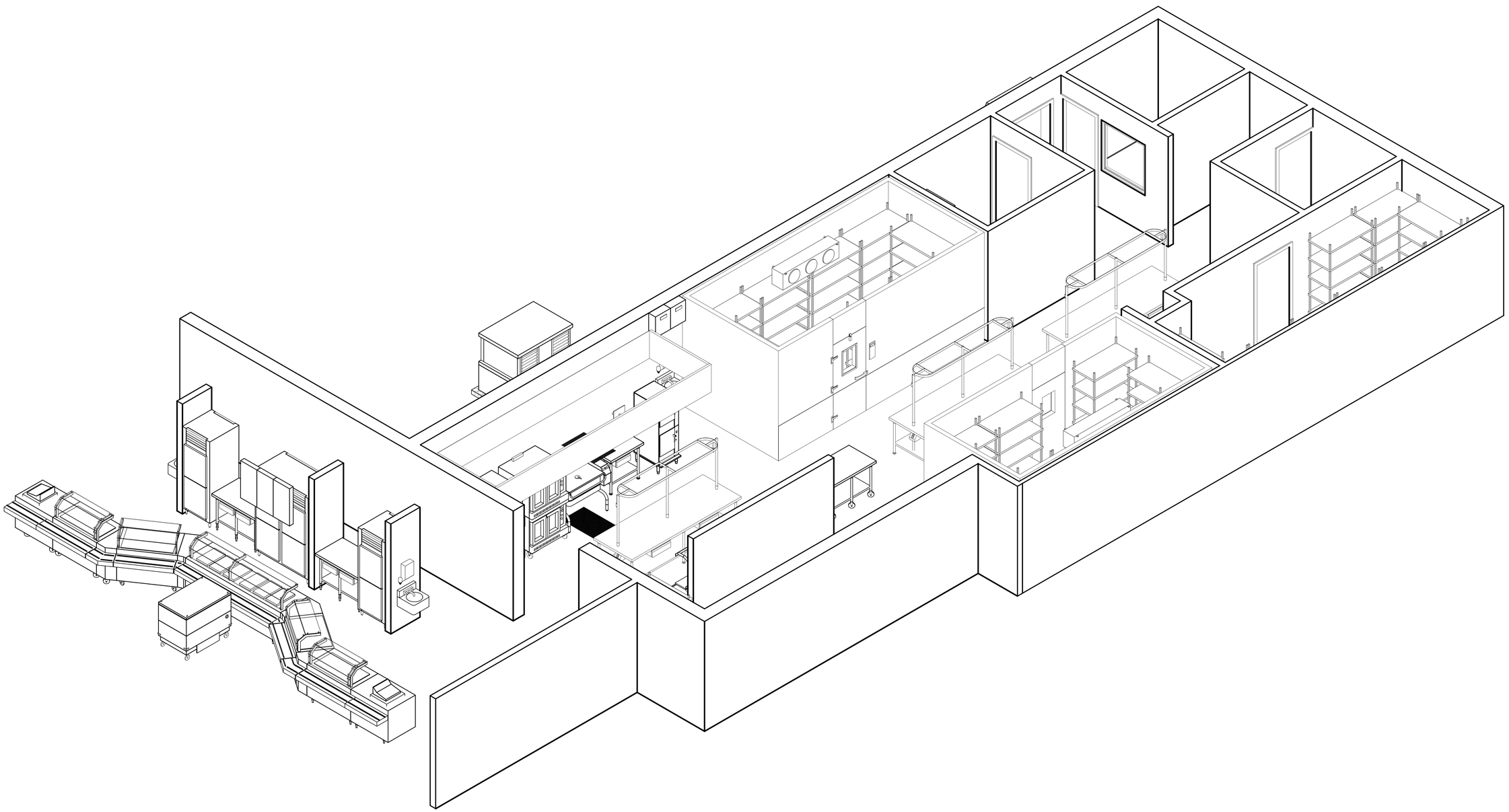
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1 FS FACILITY MODEL

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FS FACILITY MODEL

DRAWING RECORD

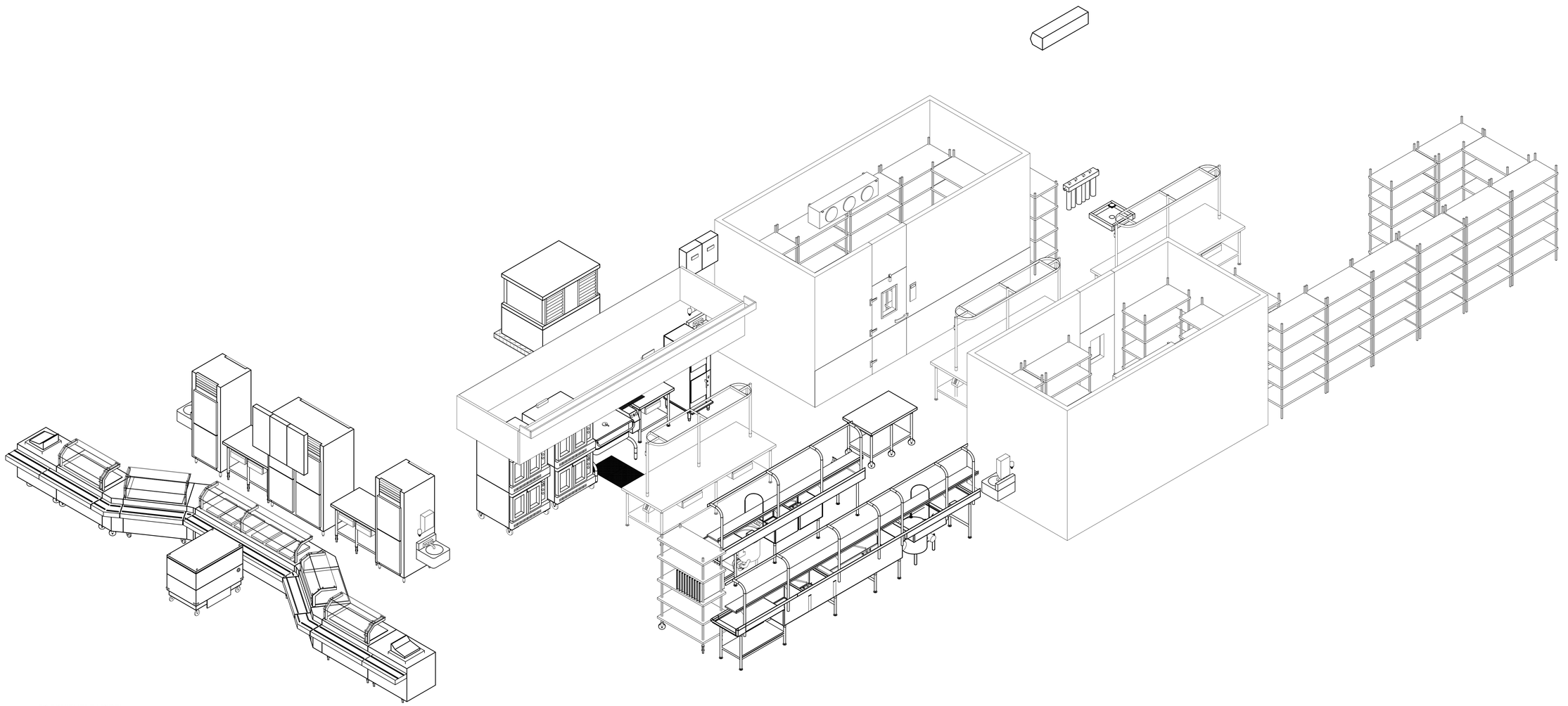
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1 FS EQUIPMENT MODEL

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FS EQUIPMENT MODEL

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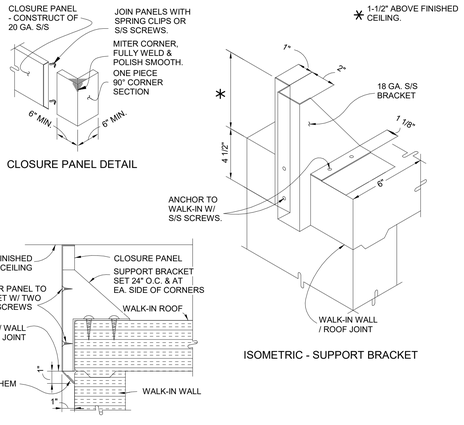
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PROJECT NO.: 2022200

FOODSERVICE MECHANICAL SCHEDULE						
NO.	QTY	TYPE	SIZE	LOCATION	CFM	S.P.
M101	1	EXHAUST	4" DIA.	WALL	GRAVITY	VERIFY

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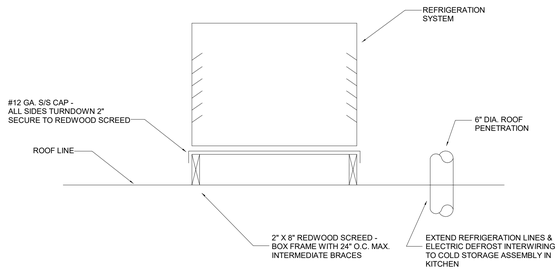


CLOSURE PANEL DETAIL

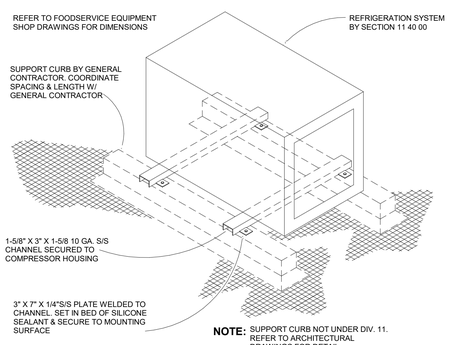
ISOMETRIC - SUPPORT BRACKET

SECTION - CLOSURE PANEL

5 COLD STORAGE ASSEMBLY ENCLOSURE PANEL DETAIL
NOT TO SCALE

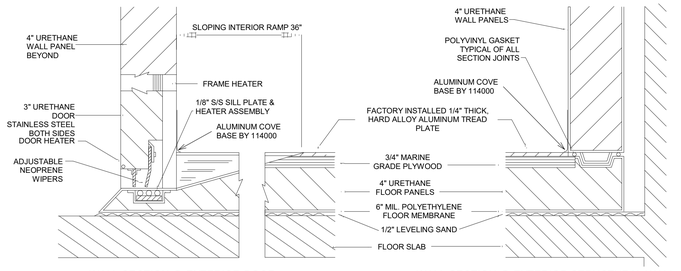


6 COLD STORAGE ASSEMBLY REFRIGERATION SYSTEM ROOF CURB DETAIL
NOT TO SCALE



7 COLD STORAGE ASSEMBLY REFRIGERATION SYSTEM ROOF MOUNT DETAIL
NOT TO SCALE

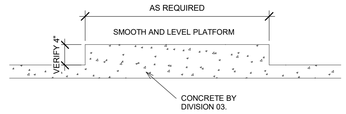
NOTE:
FLOOR SLAB UNDER COLD STORAGE ASSEMBLIES TO BE DEAD LEVEL.
REFER TO SPECIFICATIONS FOR EXTERIOR / INTERIOR FINISH OF WALL PANELS.
(cooler does not require floor with ramp unless crawl space present)



WALL SECTION @ EXTERIOR DOOR

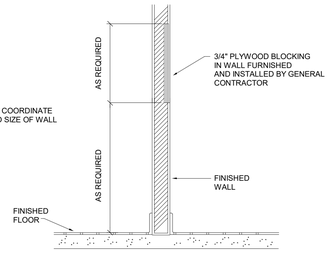
WALL SECTION @ EXTERIOR STRUCTURAL WALL

3 COLD STORAGE ASSEMBLY W/ INTERIOR RAMP DETAIL
NOT TO SCALE

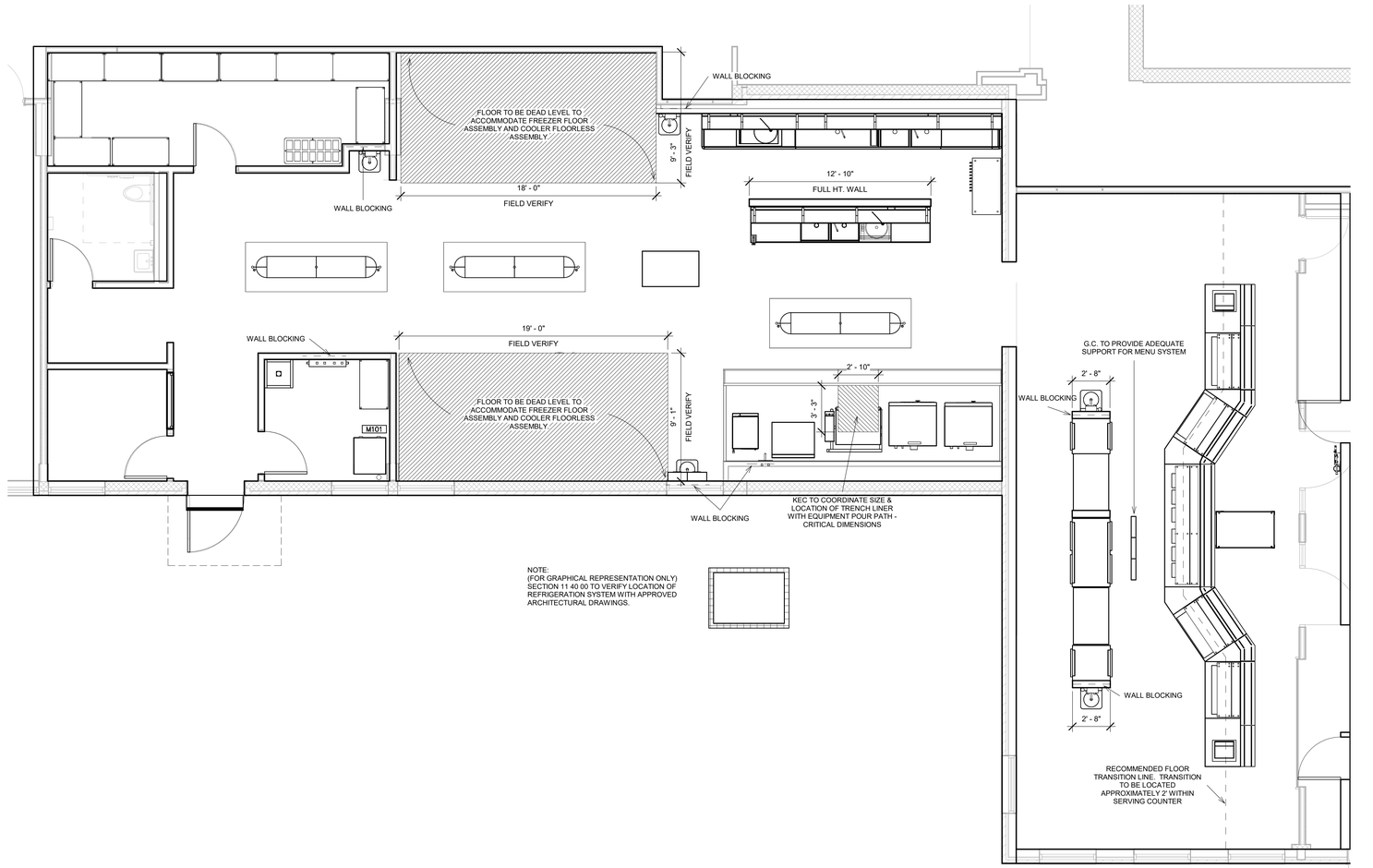


4 COLD STORAGE ASSEMBLY REFRIGERATION SYSTEM GROUND MOUNT 4" PLATFORM DETAIL
NOT TO SCALE

NOTE:
SECTION 11 40 00 TO COORDINATE FINAL LOCATION AND SIZE OF WALL BLOCKING.



2 WALL BLOCKING DETAIL
NOT TO SCALE



NOTE:
(FOR GRAPHICAL REPRESENTATION ONLY)
SECTION 11 40 00 TO VERIFY LOCATION OF REFRIGERATION SYSTEM WITH APPROVED ARCHITECTURAL DRAWINGS.

1 FOODSERVICE SPECIAL CONDITIONS PLAN
1/4" = 1'-0"

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FS SPECIAL CONDITIONS & MECHANICAL PLAN

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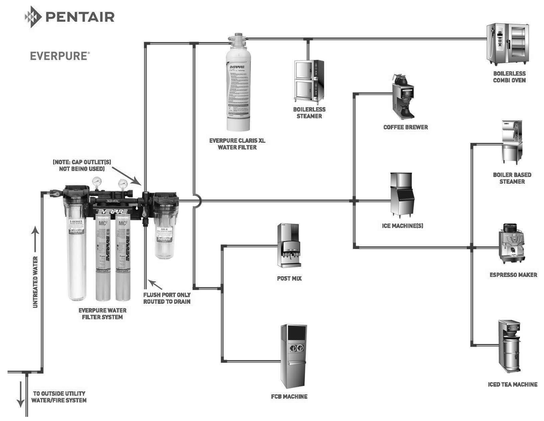
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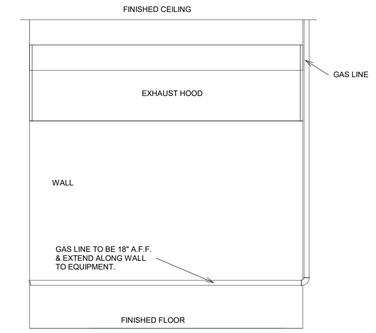
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FOODSERVICE PLUMBING SCHEDULE

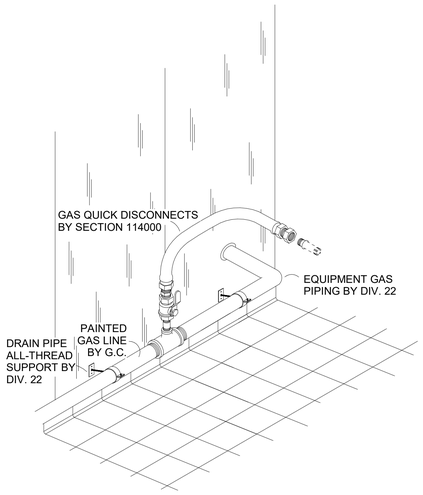
FDP PNO	FDP PSIZE	FDP PCONN	FDP PSERVICE TO	FDP PLOC	FDP PAFF	FDP PREMARKS
P5	3/4"	H & C WATER	JANITOR SINK	WALL	48"	BTC
P6	4"	FLOOR DRAIN	JANITOR SINK	FLOOR	VERIFY	JANITOR SINK BY PLUMBER
P7	3/4"	H & C WATER	HOSE BIBB	WALL	18"	BTC
P7A	3/4"	H & C WATER	FREEZE PROOF HOSE BIBB	WALL	48"	BTC; PROVIDED BY DIV. 22
P10	VERIFY	FLOOR DRAIN	GENERAL AREA DRAIN	FLOOR	VERIFY	---
P11	1/2"	H & C WATER	FAUCET	WALL	18"	FURNISHED BY SECTION 11 40 00; INSTALLED BY DIV. 22
P11B	12" SQ.	FLOOR SINK	HAND SINK	FLOOR	0"	3/4 GRATE - FURNISHED BY SECTION 11 40 00; INSTALLED BY DIV. 22
P12	12"SQ.	FLOOR SINK	EQUIPMENT	FLOOR	0"	3/4 GRATE
P12A	12" SQ.	FLOOR SINK	EQUIPMENT	FLOOR	0"	3/4" GRATE; CAP AND COVERED FOR FUTURE
P14	1/2"	HOT WATER	FAUCET	FLOOR	6"	BTC
P110	3/4"	H & C WATER	CLOTHES WASHER	WALL	48"	BTC; VALVE BOX
P110B	2"	INDIRECT DRAIN	CLOTHES WASHER	WALL	48"	VALVE BOX
P121	3/4"	H & C WATER	FAUCET	WALL	13"	BTC
P121A	12" SQ.	FLOOR SINK	SINK	FLOOR	0"	3/4 GRATE
P161	(2)3/4"	NATURAL GAS	CONVECTION OVEN	WALL	18"/36"	BTC - 60 MBTU/HR EACH
P162A	(2) 3/4"	COLD WATER	CONVECTION STEAMER	WALL	18"/48"	BTC - INTERCONNECT THRU WATER FILTER
P162B	(2) 3/4"	COLD WATER	CONVECTION STEAMER	WALL	15"/45"	BTC; RE: NOTE #3
P162C	(2) 3/4"	NATURAL GAS	CONVECTION STEAMER	WALL	24" / 60"	BTC; RE: NOTE #3 & #9 62 MBTU/HR EA.
P164	4"	HUB DRAIN	TRENCH LINER	FLOOR	-9"	CRITICAL LOCATION
P164A	3/4"	NATURAL GAS	TILT BRAISING PAN	WALL	18"	BTC; 200 MBTU/HR
P256	3/4"	H & C WATER	FAUCET	WALL	13"	BTC; RE: NOTE #3
P256A	12" SQ.	FLOOR SINK	SINK	FLOOR	0"	THREE QUARTER GRATE
P263	3/4"	INCOMING COLD WATER	REMOTE FILTER SYSTEM	WALL	60"	BTC; RE: NOTE #3 & #17
P263A	3/4"	OUTGOING COLD WATER	REMOTE FILTER SYSTEM	WALL	60"	BTC; RE: NOTE #3 & #17; INTERCONNECT TO ICE / STEAMER / HYDROVECTION OVEN
P614	1/2"	H & C WATER	FILL FAUCET	WALL	42"	BTC; RE: NOTE #3
P708	3/4"	H & C WATER	SCRAP COLLECTOR	WALL	18"	<varies>
P802	12" SQ.	FLOOR SINK	REFRIGERATED AIR SCREEN MERCHANDISER	FLOOR	0"	3/4 GRATE - RE: NOTE #4



5 FILTER SYSTEM DETAIL
NOT TO SCALE



7 EXHAUST HOOD - GAS LINE ROUTING DETAIL
NOT TO SCALE



4 GAS DISCONNECT DETAIL
NOT TO SCALE

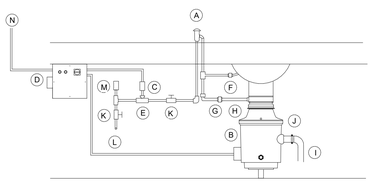
SECTION 11 40 00 TO PROVIDE LOOSE WITH FOODSERVICE EQUIPMENT. INSTALLATION BY DIV. 22 & 26.

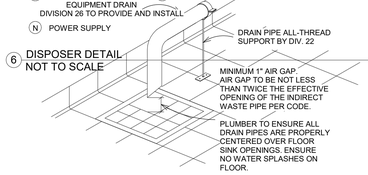
- (A) VACUUM BREAKER
- (B) DISPOSER
- (C) TIME DELAY
- (D) CONTROL PANEL
- (E) SOLENOID VALVE

DIVISION 22 TO PROVIDE AND INSTALL

- (F) 1/2" CW INLET
- (G) FLOW CONTROL
- (H) 1/2" CW
- (I) 2" DRAIN LINE
- (J) 1-1/2" TAILPIECE
- (K) GATE VALVE
- (L) 1/2" CW SUPPLY
- (M) SHOCK STOP
- (N) POWER SUPPLY

EQUIPMENT DRAIN DIVISION 26 TO PROVIDE AND INSTALL





6 DISPOSER DETAIL
NOT TO SCALE

3 DRAIN PIPING FASTENER DETAIL
NOT TO SCALE

○	HW	HOT WATER	⋯	IW	INDIRECT WASTE (EXTEND TO F.D.)
○	CW	COLD WATER	⊡	FFD	FUNNEL FLOOR DRAIN
○	HTW	180 F HOT WATER	◣	EVC	EXHAUST VENT CONNECTION
○	CWS	CHILLED WATER	⋈	SVC	SUPPLY VENT CONNECTION
○	G	GAS SUPPLY	◖	FR	DIRECT-CONNECTED FLUE RISER
▦	SS	STEAM SUPPLY	⊕	PS	PIPE SLEEVE
□	CR	CONDENSATE RETURN		AFF	ABOVE FINISHED FLOOR
●	DR	DRAIN		ST	STUB UP/OUT
□	FD	FLOOR DRAIN		BTC	BRANCH TO CONN. ON EQUIP
▤	FS	FLOOR SINK		DFA	DROP FROM ABOVE
			⋯	CA	COMPRESSED AIR

2 PLUMBING SYMBOLS
NOT TO SCALE

NOTE:
(FOR GRAPHICAL REPRESENTATION ONLY)
SECTION 11 40 00 TO VERIFY LOCATION OF REFRIGERATION SYSTEM WITH APPROVED ARCHITECTURAL DRAWINGS. REFRIGERATION LINE RUNS ARE TO BE THE RESPONSIBILITY OF SECTION 11 40 00 AND COVERED UNDER THIS CONTRACT.

1 FOODSERVICE PLUMBING PLAN
1/4" = 1'-0"

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DISD Blair Elementary

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FS PLUMBING PLAN

DRAWING RECORD

DATE	DESCRIPTION
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11/16/2025	100 % CD ISSUE FOR BID

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PROJECT NO.: 2022200

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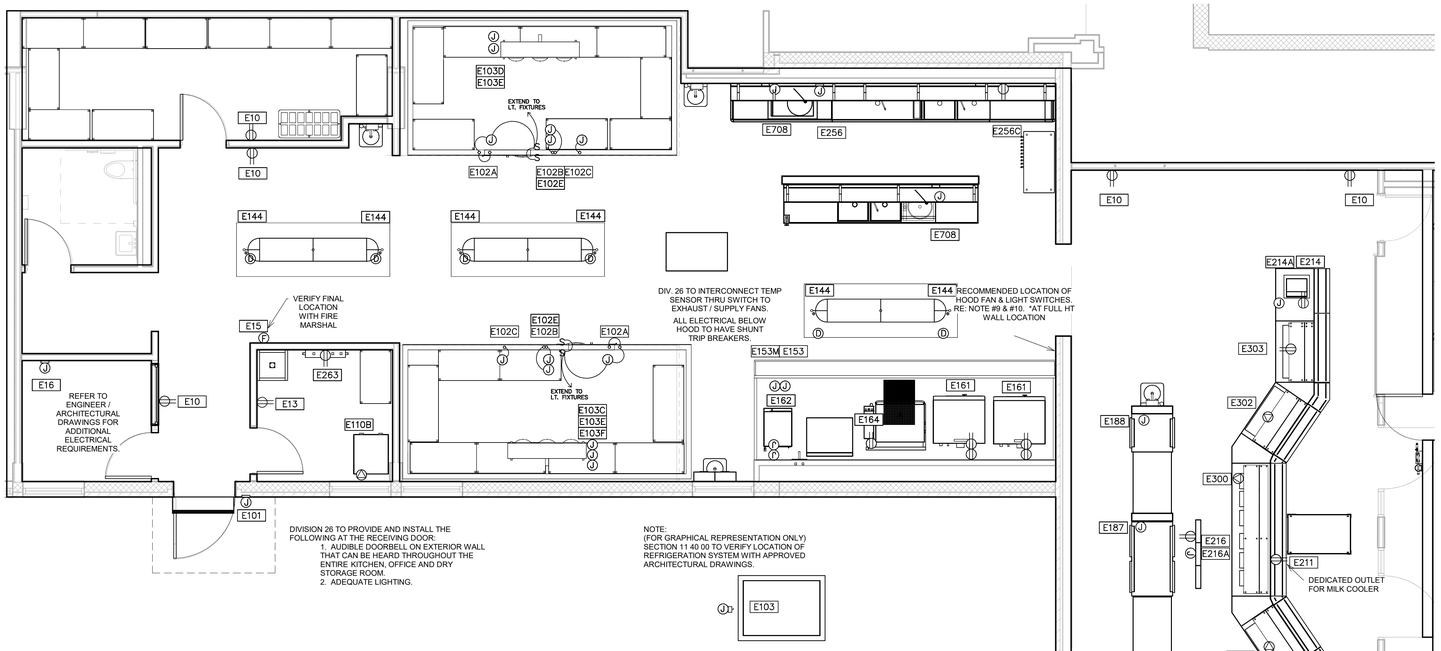
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DISD Blair Elementary

7720 Gayglen Drive, Dallas, TX

FOODSERVICE ELECTRICAL SCHEDULE

FDP ENO	FDP ECONN	FDP ELOAD	FDP EVOLT	FDP EPH	FDP ESERVICE TO	FDP ELOC	FDP EAFF	FDP EREMARKS
E10	DR	16.0A	120	1	CONVENIENCE OUTLET	WALL	24"	---
E13	WPR	16.0A	120	1	CONVENIENCE OUTLET	WALL	48"	---
E15	JB	---	---	--	REMOTE FIRE PULL	WALL	48"	RE: NOTE #11 - RECESSED JB - EXTEND TO FIRE SYSTEM FOR HOOD
E16	JB	---	---	--	POS SYSTEM	VERIFY	VERIFY	BTC; RE: NOTE #14 - EMPTY CONDUIT W/ PULL WIRE, EXTEND TO CASH REGISTERS
E101	JB	5.1A	120	1	AIR SCREEN	WALL	82"	BTC; MAGNETIC REED SWITCH ON DOOR JAMB & DOOR
E102A	JB	16.0A	120	1	DOOR HEATER/LIGHTS	CLG	DFA	BTC
E102B	JB	5.0A	120	1	TEMP. ALARM	CLG	DFA	BTC
E102C	JB	5.0A	120	1	PRESSURE RELIEF PORT	CLG	DFA	BTC
E102E	JB	10.0A	120	1	PANIC ALARM BUTTON	CLG	DFA	BTC; INTERCONNECT TO STROBE LIGHT/HORN ABOVE FREEZER DOOR AND IN CAFETORIUM
E103	JB/DS	30.1A	208	3	REFRIGERATION SYSTEM	VERIFY	VERIFY	BTC; RE: NOTE #4 & #5
E103C	JB	13.7A	208	1	FREEZER COIL	CLG	DFA	BTC
E103D	JB	1.8A	120	1	COOLER COIL	CLG	DFA	BTC
E103E	JB	---	---	---	DATA CONNECTION	CLG	DFA	BTC; RUN TO NEAREST IDF / MDF ROOM
E103F	JB	16.0A	120	1	DRAIN LINE HEATER	CLG	DFA	BTC; DEDICATED CIRCUIT
E110B	SR	30.0A	120/240	1	STACKED WASHER DRYER	WALL	48"	VERIFY NEMA PLUG RECEPTACLE
E139	SR	15.0A	120	1	INSUL. MOBILE PROOFER	CLG	DFA	--
E144	DCR	16.0A	120	1	TABLE RECEPTACLE	CLG	84"	TWISTLOCK PLUG & RECEPTACLE
E153	JB	10.0A	120	1	HOOD LIGHTS	CLG	DFA	BTC; RE: NOTE #4, #6, #9 & #10
E153M	JB	10.0A	120	1	HEAT SENSOR	CLG	DFA	BTC; RE: NOTE #4, #6, #9 & #10
E161	(2)DR	6.0A EA.	120	1	CONVECTION OVEN	WALL	24"/48"	SHUNT TRIP BREAKER
E162	(2) JB	4.0A EA.	120	1	CONVECTION STEAMER	WALL	24" / 60"	BTC: SHUNT TRIP BREAKER
E164	DR	1.4A	120	1	TILT BRAISING PAN	WALL	24"	SHUNT TRIP BREAKER
E187	JB	15.5A	120/208	1	HEATED CABINET	WALL	96"	BTC; RE: NOTE #4; MOUNT ON KITCHEN SIDE (CAP AND COVER FOR FUTURE)
E188	JB	7.2A	120	1	REFRIGERATOR	WALL	96"	BTC; RE: NOTE #4; MOUNT ON KITCHEN SIDE (CAP AND COVER FOR FUTURE)
E193	JB	8.2A	120	1	REFRIGERATOR	CLG	DFA	BTC; OMIT PLUG, UNIT TO BE HARDWIRED
E201.1	SR	16.0A	120	1	FROST TOP	CLG	DFA	---
E211	DR	8.0A	120	1	DROP FRONT MILK COOLER-12 CASE	<varies>	<varies>	---
E214	DR/PMR	16.0A	120	1	CASH REGISTER	<varies>	<varies>	DEDICATED CIRCUIT
E214A	JB	---	---	-	POS	<varies>	<varies>	<varies>
E216	DR	16.0A	120	1	MENU SYSTEM	CLG	DFA	THRU SWITCH
E216A	JB	---	---	---	DATA	CLG	DFA	BTC: RE: NOTE #4
E256	JB/DS	26.7A	208	3	POWER SOAK SINK	WALL	48"	BTC; RE: NOTE #4 - CONNECT FROM E256THRU C.P. TO PUMP
E256C	WPR	5.0A	120	1	DETERGENT SYSTEM	WALL	24"	WATERPROOF RECEPTACLE
E263	WPR	16.0A	120	1	REMOTE FILTER SYSTEM	WALL	96"	---
E300	SR/PMR	40.0A	120/208	3	HOT/COLD WELLS	FLOOR	4.5"	WATERPROOF RECEPTACLE
E302	SR/PMR	16.0A	120/208	1	HEATED TOP	FLOOR	4.5"	WATERPROOF RECEPTACLE
E303	DR/PMR	16.0A	120/208	1	FROST TOP	FLOOR	4.5"	WATERPROOF RECEPTACLE
E615	DR	5.0A	120	1	VIDEO / DATA SYSTEM	CLG	DFA	PROVIDE DCO AT VIDEO LOCATION
E708	JB	3.2A	208	3	SCRAP COLLECTOR	WALL	24"	<varies>
E800	DR	16.0A	120	1	REFRIGERATOR	CLG	DFA	BTC
E802	SR	16.8A	120	1	REFRIGERATED AIR SCREEN MERCHANDISER	WALL	24"	---



DIVISION 26 TO PROVIDE AND INSTALL THE FOLLOWING AT THE RECEIVING DOOR:
1. AUDIBLE DOORBELL ON EXTERIOR WALL THAT CAN BE HEARD THROUGHOUT THE ENTIRE KITCHEN, OFFICE AND DRY STORAGE ROOM.
2. ADEQUATE LIGHTING.

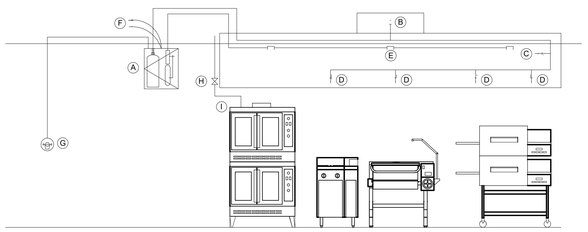
NOTE:
(FOR GRAPHICAL REPRESENTATION ONLY)
SECTION 11 40 00 TO VERIFY LOCATION OF REFRIGERATION SYSTEM WITH APPROVED ARCHITECTURAL DRAWINGS.

1 FOODSERVICE ELECTRICAL PLAN
1/4" = 1'-0"

	SCR	CONDUIT STUB BTC ON RECEPT FURNISH WITH EQUIPMENT		CC	CONDUIT FOR COMPUTER CABLES
•	CS	CONDUIT STUB UP/OUT FOR DIRECT CONNECTION		BTC	BRANCH TO CONNECTION ON EQUIPMENT
	DR	20 AMP DUPLEX RECEPTACLE (MOUNT HORIZONTAL)		WPR	20 AMP WEATHERPROOF RECEPTACLE (SPRING COVER)
	SR	SINGLE PURPOSE RECEPTACLE-1PH		FPB	FIRE PROTECTION BUZZER
	SR	SINGLE PURPOSE RECPTACLE-3PH		BSC	BEVERAGE SYSTEM CONDUIT
	FR	FLUSH FLOOR RECEPTACLE		DFA	DROP FROM ABOVE
	PMR	PEDESTAL MOUNTED RECEPTACLE		AFF	ABOVE FINISH FLOOR
	DCR	DROP CORD RECEPTACLE		CS/JB	JUNCTION BOX ON PEDESTAL
	JB	JUNCTION BOX ON CEILING		SW	SWITCH
	JB	JUNCTION BOX IN WALL		D	DATA
	JB/DS	JUNCTION BOX WITH DISCONNECT BY DIV.26		JB/DS	CONDUIT STUB-UP WITH DISCONNECTION BY DIV.26

2 ELECTRICAL SYMBOLS
NOT TO SCALE

NOTE:
REFER TO FDP EQUIPMENT PLAN
FOR SPECIFIC COMPONENTS UNDER HOOD.
ALL EQUIPMENT SHOWN HERE FOR GRAPHICAL REPRESENTATION ONLY.



- (A) S/S ENCLOSURE W/AGENT TANK AND NITROGEN CARTRIDGE
- (B) DUCT NOZZLE(S)
- (C) PLENUM NOZZLE(S)
- (D) SURFACE PROTECTION NOZZLE(S)
- (E) FUSIBLE LINK(S)
- (F) (2) WIRES FROM FIRE SYSTEM TO SHUNT TRIP BREAKERS FOR SHUT DOWN OF ELECTRICAL CONNECTIONS LOCATED BENEATH EXHAUST HOOD DURING FIRE MODE
- (G) REMOTE FIRE PULL
- (H) GAS VALVE
- (I) GAS SUPPLY (AS REQUIRED)

3 FIRE PROTECTION SYSTEM TYPICAL DETAIL
NOT TO SCALE

FS ELECTRICAL PLAN

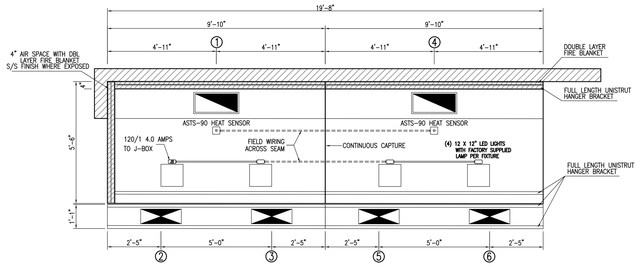
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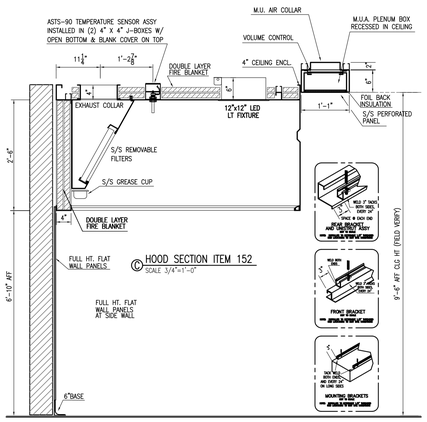
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Ⓐ PLAN – MODEL W–cpb ITEM 152
SCALE 3/8"=1'-0"

EXHAUST COLLAR CHART					
NO.	SIZE	CFM/FOOT	CFM EACH	FPM	S.P.
1	10" X 23"	250	2458	1539	.55"
4	10" X 23"	250	2458	1539	.55"

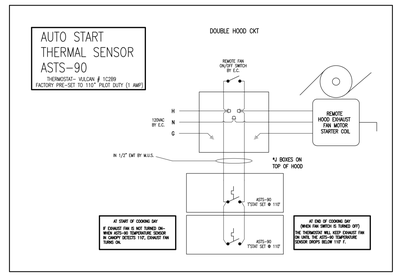
SUPPLY COLLAR CHART					
NO.	SIZE	CFM/FOOT	CFM EACH	FPM	S.P.
2	8" X 22"	200	983	804	.30"
3	8" X 22"	200	983	804	.30"
5	8" X 22"	200	983	804	.30"
6	8" X 22"	200	983	804	.30"



Ⓒ HOOD SECTION ITEM 152
SCALE 3/4"=1'-0"

HOODS DESIGNED TO MEET TO THE 2015 IECC C403.2.8 AND 2018 IECC C403.7.5 UNDER 5,000 CFM TOTAL EXHAUST.

NOTE TO G.C. AND CEILING GRID INSTALLERS :
FASTENERS FOR CEILING GRID SURROUNDING KITCHEN HOOD MUST NOT PENETRATE HOOD CAPTURE AREA OR HOOD GREASE PLENUM. IMPROPER PENETRATIONS THROUGH HOOD IN THESE AREAS VIOLATE HOOD U.L. PROCEDURE AND LOCAL MECHANICAL CODE.



UL FILE # MH 30031
MOD U SERVE NSF Air Systems
2320 PEYTON ROAD
HOUSTON, TEXAS 77032
281 442 8001

DALLAS ISD-BLAIR ES **FDP**

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COMMERCIAL KITCHENS INC.
2320 PEYTON ROAD
HOUSTON, TEXAS 77032
281 442 8001

NO.	DATE	REVISION	BY

DRAWING # D23–2076–1.152
DRAWN BY ADC
CHECKED BY
DATE May 12, 2023
SHEET 1 OF 1 SHEET

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FS EXHAUST HOODS

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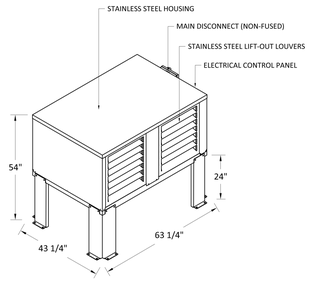
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PROJECT NO.: 2022200

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MODEL NO. ZS1-02Z-CT3-AST OUTDOOR AIR COOLED REFRIGERATION SYSTEM
ITEM NO. 103



NOTE:
- CRANKCASE HEATERS
- FAN CYCLING SWITCH
- (2) DOOR SENSORS (SHIPPED LOOSE)

RACK WEIGHT: 500 LBS.

ENGINEERING SUMMARY

POWER SUPPLY: 208-230/60/3
CONNECTED LOAD: 30.1 AMPS

MOPD: 50 AMP
MINIMUM CIRCUIT AMPACITY: 34.4

SYSTEM	FIXTURES: ITEM #	FIXTURES: DESCRIPTION	FIXTURES: TEMP °F FIXT.	FIXTURES: TEMP °F SUCT.	REQ'D FIXTURE BTU/H	REFRIG. R-	CONDENSING UNIT: COMPRESSOR MODEL NO.	H.P.	RATING @ 60 HZ RLA	RATING @ 60 HZ V	RATING @ 60 HZ PH	BTU CAP @ AMB °F 105	TYPE	REC. CAP. (lbs)	CONDENSER	EVAPORATOR COILS: ITEM #	MODEL NO.	QTY	FAN MOTORS @ 60 HZ RLA	FAN MOTORS @ 60 HZ V	FAN MOTORS @ 60 HZ PH	HEATERS @ 60 HZ RLA	HEATERS @ 60 HZ V	HEATERS @ 60 HZ PH	DEFR. TYPE	DEFROST CONTROLLER TYPE	CONTROLLER QTY	ACCESSORIES TSTAT	ACCESSORIES SOL. VALVE	ACCESSORIES EXP. VLV.	REFRIGERANT LINE SIZES (IN) SUCT.	SUCT. LINE RISER	LIQUID	LINE RUN (FT)	TYPE	TOTAL SYSTEM LOAD
A	102	WALK-IN COOLER	35	25	10346	448A	ZS11KAE	1.5	11.2	208	3	11500	Z	10.3	L1R	-	BEL0095	1	1.8	115	1				O.C.	ECOSMART	1	F	F	EF	7/8	5/8	3/8	100	M	11.2
B	102	WALK-IN FREEZER	-10	-20	11920	448A	ZF15K4E	5.0	18.9	208	3	14000	Z	10.3	L3R	-	BEL0130	1	1.5	208	1	13.7	208	1	ELEC	ECOSMART	1	F	F	EF	1-1/8	1-1/8	3/8	100	M	18.9

ALL EVAPORATOR COILS WILL REQUIRE A HOUSE POWER SUPPLY

c UL us LISTED

NOTE:
IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO FOLLOW ALL APPLICABLE CODES AND CURRENT REFRIGERATION INDUSTRY STANDARDS AND PRACTICES WHEN DETERMINING LINE SIZES, AND INSTALLING AND STARTING UP RDT EQUIPMENT.

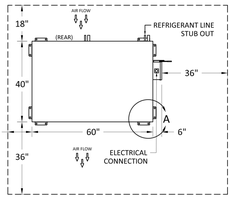
COMPRESSOR TYPE
Z SCROLL
H HERMETIC
S SEMI-HERMETIC
D DISCUS

DEFROST TYPE
O.C. OFF CYCLE
ELEC ELECTRIC

LINE TYPE
M MAIN - UP TO 100'
B BRANCH - UP TO 50'
T TRUNK - UP TO 200'

EVAPORATOR ACCESSORIES
EF EEV FACTORY EQUIPPED ON EVAP
TF TXV FACTORY EQUIPPED ON EVAP
F FACTORY EQUIPPED ON EVAP
O PROVIDED BY OTHERS
L LOOSE (FIELD INSTALLATION)

PLANVIEW/ CLEARANCE REQUIREMENTS

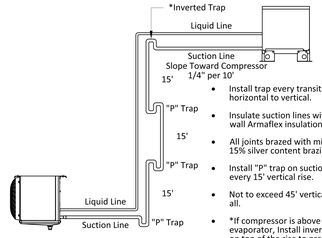




NOTE: MINIMUM CLEARANCE REQUIRED FOR PROPER OPERATION

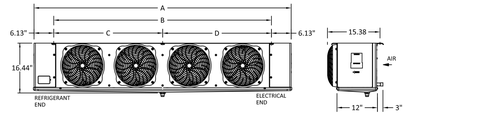
NOTE: ROOF CURB OR GROUND PAD CAN BE SAME SIZE AS OUTDOOR UNIT

SUCTION LINE VERTICAL RISE DETAIL



- Install trap every transition from horizontal to vertical.
- Insulate suction lines with 3/4" wall Armaflex insulation.
- All joints brazed with minimum 15% silver content brazing rod.
- Install "P" trap on suction line every 15' vertical rise.
- Not to exceed 45' vertically over all.
- *If compressor is above the evaporator, Install inverted trap on top of the rise to prevent oil from seeping down when fixture(s) is turned off.

EVAPORATOR DETAILS - MODEL BEL



AIR DEFROST Size	DIMENSIONS A (Inches)	B (Inches)	C (Inches)	D (Inches)	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps 115V	208V
095	45-1/2	33-1/4	-	-	1/2 OD	5/8 OD	3/4 MPT	51	2	1.8	1.0

ELECTRIC DEFROST	DIMENSIONS A (Inches)	B (Inches)	C (Inches)	D (Inches)	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps	Heater Amps as wired for 208-230/60/1	208-230/60/3	460/60/1
130	61-1/2	49-1/4	-	-	1/2 OD	7/8 OD	3/4 MPT	71	3	1.5	13.7	8.5	6.8

ZS SERIES ENGINEERING SPECIFICATIONS

Multi compressor, outdoor, air cooled. The refrigeration package shall be a pre-engineered and factory-assembled unit, trade name "ZS", as manufactured by Refrigeration Design Technologies, 1808 FM Road 66, P.O. Box 622, Waxahachie, Texas 75168. Phone: (972) 937-3215; Fax: (972) 937-0970.

1. Air-Cooled Refrigeration System
The RDT UL Listed "Air-Cooled" Refrigeration system shall be housed in a weather-protected compact powder coated steel frame. The entire housing shall be brushed stainless steel. The unit shall include an air-cooled aluminum fin copper tube condenser designed to operate at 15 degrees TD. The exterior housing shall feature stainless steel one piece louvers. Lifting points shall be integrated in the framing component. Condenser fan motors shall be mounted within the enclosure. The condenser intake surface shall be protected with stainless steel expanded metal guard to protect against vandalism and hail damage.

Each unit shall be equipped with a ball-bearing fan motor, suction filter, sight glass, liquid filter/drier, liquid line inlet and outlet valve, defrost cycle and high pressure super-hose connections. Each unit shall be equipped with fan cycling controls and/or head pressure regulator where required for low ambient conditions.

Condensing unit shall contain scroll, hermetic, semi-hermetic, and/or discus type compressor(s) assembled to operate with the refrigerant specified for both medium and low temperature applications.

2. Evaporator Coils
A. Evaporator coils shall be direct expansion type fabricated of copper tubes with aluminum fins.
B. All evaporator coils shall be provided with solenoid valve, thermostatic or electronic expansion valve and thermostat.

3. Pre-Piping
All refrigerant lines shall be extended to outside of the housing in a neat and orderly manner. All tubing shall be securely supported and anchored with non-corrosive coated clamps.

All joints must be brazed, not soldered.

All piping and controls shall be factory pressure-tested with dry nitrogen.

4. Control Panel
The package shall have a factory-mounted and pre-wired control panel, with main disconnect (non fused) where required, circuit breakers, contactors wired for single point power connection.

General Information
Contractors shall verify all dimensions onsite and coordinate with other trades.

General contractor shall prepare the platform, curbed openings and weatherproofing the unit after installation.

Refrigeration Contractor
All copper tubing to be refrigerant grade. A.C.R. or type "L".

Brazing should be used for all refrigerant piping. Silver solder or soft solder is not acceptable.

All piping to be pressure tested with nitrogen at 300 psi. After the condensing unit and coil have been connected the balance of the system shall be leak tested with the valves open at 200 psi.

The complete system shall be evacuated with a vacuum pump. Each unit should be charged tested and adjusted to assure operation.

Contractor should provide and install the drain-line heater in freezer. Heater shall be connected by electrical contractor. Seal all penetrations through the walk-in units with foam.

Electrical Contractor
Electrical contractor to provide power for refrigeration package and connect control and defrost system as called for in the wiring diagram.

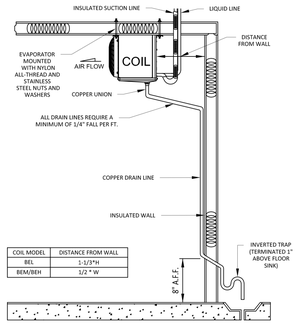
Electrical contractor to connect drain-line heater in the freezer.

All electrical wiring and installation shall be in accordance with the wiring diagram and local codes. Seal all penetrations through the walk-in units with foam.

Plumbing Contractor
Plumbing contractor to provide copper drain lines for walk-in refrigerator and freezer, pitched 1/4" per foot of run. Trap drain-line outside of refrigerated space to avoid entrance of warm, moist air.

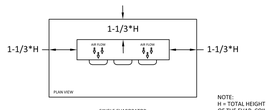
All plumbing installation shall be in accordance with local codes.

EVAPORATOR MOUNTING DETAIL (TYPICAL)



COIL MODEL	DISTANCE FROM WALL
BEL	1-1/3"H
BEM/BEH	1/2 " W

EVAPORATOR PLACEMENT & CLEARANCE REQUIREMENTS LOW PROFILE EVAPORATOR COILS (I.E. - BEL)



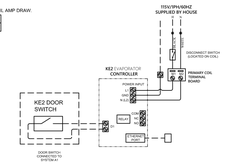
SINGLE EVAPORATOR

NOTE:
H = TOTAL HEIGHT OF THE EVAP. COIL

WIRING DIAGRAM - ECO-SMART - AKOA1AE DEMAND DEFROST CONTROLLER FOR WALK-IN COOLER WITH ONE COIL 115/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW.

SYS	DESCRIPTION	VOLTAGE
A	WALK-IN COOLER	115/1



Note: Controller provided pre-mounted to housing of evaporator assembly.

Wiring Schedule for Electrical Contractor Requirements:

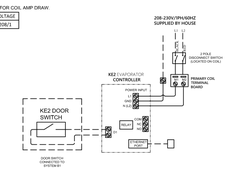
PRIMARY COIL
(3) 115V 12AWG MIN. TO PROVIDE HOUSE POWER TO THE COIL (HOT, NEUTRAL, GROUND)

FACTORY WIRING ————————
FIELD WIRING – – – – – – –

WIRING DIAGRAM - ECO-SMART - AKOB1EE DEMAND DEFROST CONTROLLER FOR WALK-IN FREEZER WITH ONE COIL 208-230/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAW.

SYS	DESCRIPTION	VOLTAGE
B	WALK-IN FREEZER	208/1



Note: Controller provided pre-mounted to housing of evaporator assembly.

Wiring Schedule for Electrical Contractor Requirements:

PRIMARY COIL
(3) 208V (AWG SIZE ACCORDING TO HEATER LOAD AND LOCAL CODE) TO PROVIDE HOUSE POWER TO THE COIL (L1, L2 AND GROUND)

FACTORY WIRING ————————
FIELD WIRING – – – – – – –

APPROVAL STATUS

THIS DRAWING REPRESENTS OUR UNDERSTANDING OF THE SPECIFICATIONS. PLEASE REVIEW IT CAREFULLY FOR ACCURACY. CLEARLY AND IN DETAIL NOTE CHANGES REQUIRED.

MARK APPROPRIATE BOX, SIGN, AND DATE BELOW.

- ☐ APPROVED FOR FABRICATION NO CHANGES
- ☐ APPROVED FOR FABRICATION WITH CHANGES NOTED
- ☐ REVISE AND RE-SUBMIT DRAWING

BY: _____ DATE: _____

NOTICE

THIS DRAWING BEING AN INSTRUMENT OF SERVICE IS AND WILL REMAIN PROPERTY OF REFRIGERATION DESIGN TECHNOLOGIES AND CANNOT BE USED WITHOUT WRITTEN AUTHORIZATION.

No.	Revision/Issue	Date
0	ORIGINAL ISSUE	05-11-23

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Consultant:
Food Service Design Professionals
Southlake, Tx

Dealer
-
-

Blair Elementary School
Dallas, Tx

Project No: 29036
Designed By: K. Sigler
Drawn By: K. Sigler

Sheet 1.1 of sheets

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FS CONDENSING UNITS

DRAWING RECORD

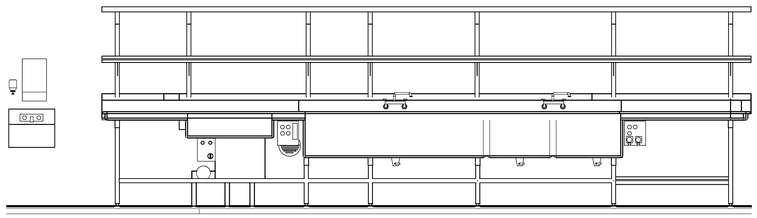
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04/08/2025	Issue for Permit
11/16/2025	100 % CD ISSUE FOR BID

QF1.7

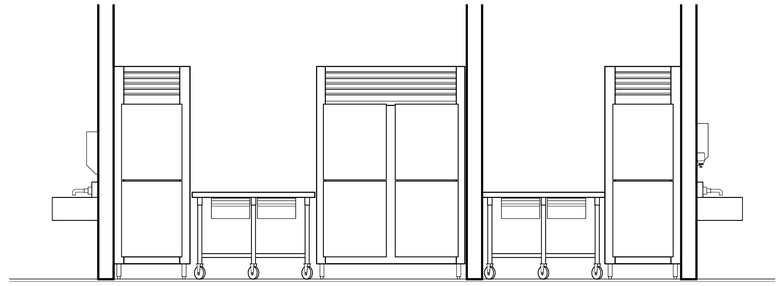
PROJECT NO.: 2022200

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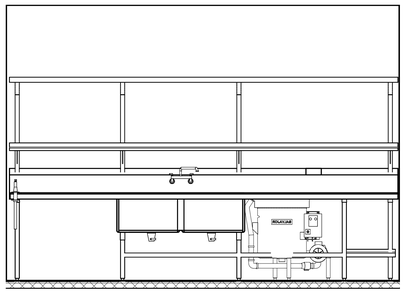
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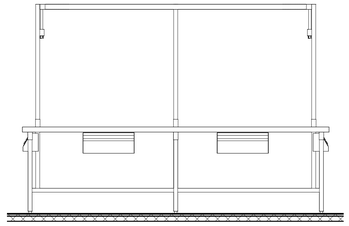
6 ELEVATION @ WAREWASH
1/2" = 1'-0"



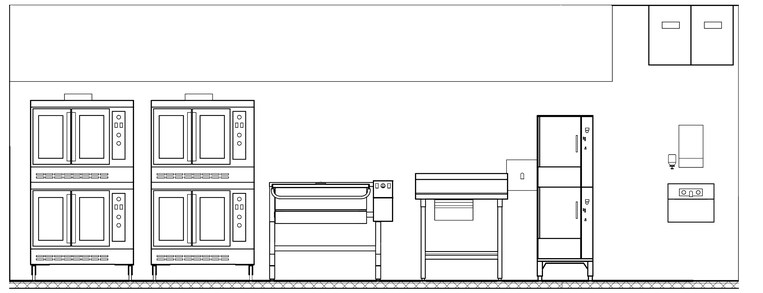
5 ELEVATION @ HOLDING
1/2" = 1'-0"



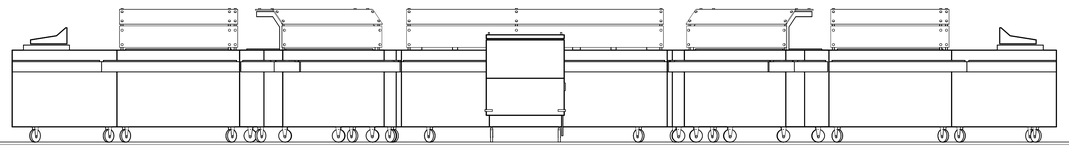
4 ELEVATION @ PREP SINK
1/2" = 1'-0"



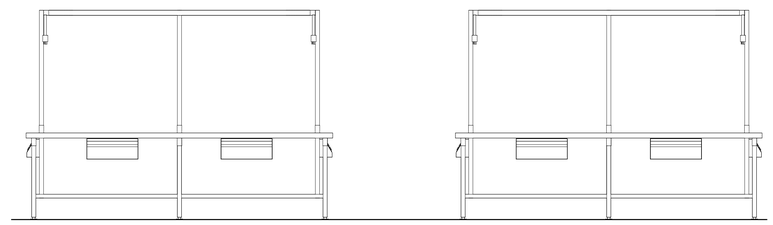
7 ELEVATION@ SETUP
1/2" = 1'-0"



3 ELEVATION @ PRODUCTION
1/2" = 1'-0"



2 ELEVATION @ SERVING COUNTER
1/2" = 1'-0"



1 ELEVATION @ SET UP TABLES
1/2" = 1'-0"

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FS ELEVATIONS

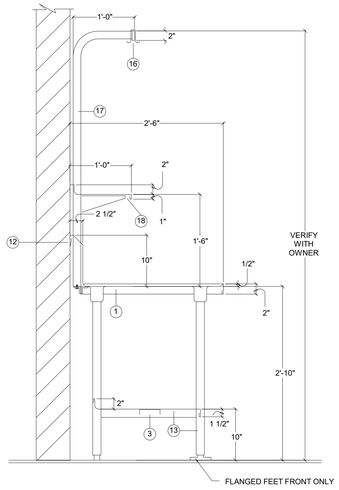
DRAWING RECORD

DATE	DESCRIPTION
04/08/2025	Issue for Permit
11/16/2025	100 % CD ISSUE FOR BID

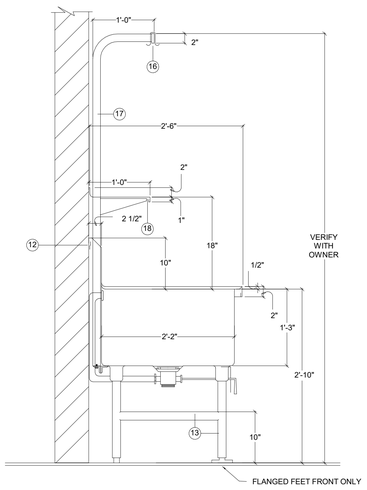
QF1.10

PROJECT NO.: 2022200

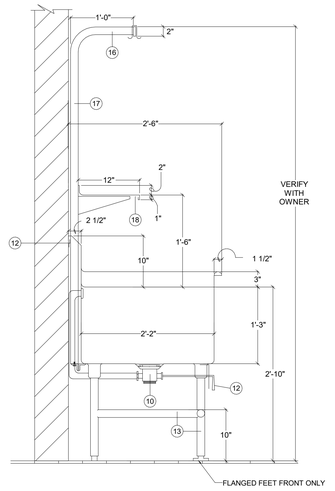
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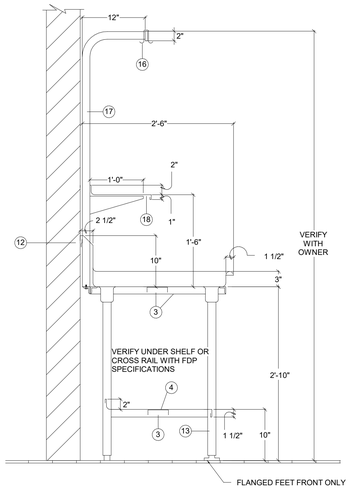
5 DRAINBOARD - PREP SINK SECTION
NOT TO SCALE



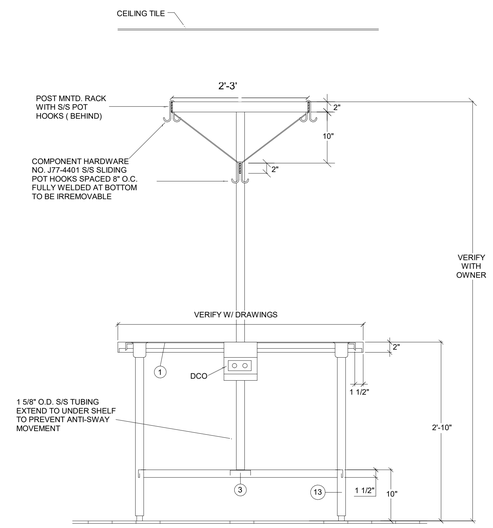
4 SINK - PREP TABLE SECTION
NOT TO SCALE



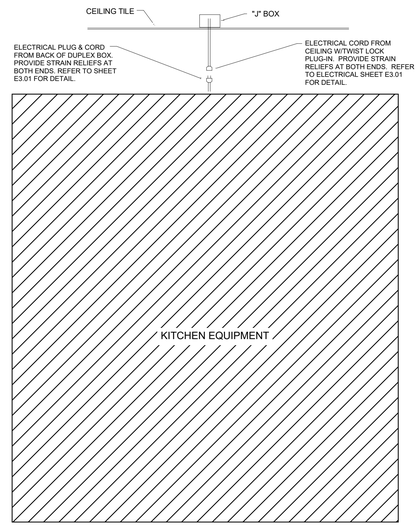
3 SINK - UTENSIL WASH SECTION
NOT TO SCALE



7 DRAINBOARD - UTENSIL WASH SECTION
NOT TO SCALE



3 GENERIC KITCHEN EQUIPMENT DETAIL
NOT TO SCALE



2 ELECTRICAL CORD DETAIL
NOT TO SCALE

SECTION DETAIL NOTES:

1. 1 1/2" X 1 1/2" X 1/8" GALVANIZED ANGLE IRON.
2. 1" X 4" 14 GAUGE STAINLESS STEEL HAT CHANNEL.
3. 16 GAUGE STAINLESS STEEL C-CHANNEL.
4. 16 GAUGE STAINLESS STEEL UNDER SHELF, COVE UP REAR 2", TURN DOWN FRONT 1 1/2".
5. 1/2" CEMENT BACKERBOARD WITH TILE FRONT BY TRADE CONTRACTOR OR COUNTER MANUFACTURER. VERIFY FINISH WITH ARCHITECTURAL DRAWINGS.
6. COLD PAN - 2" RIGID INSULATION WITH 1" C.P. DRAIN - 16 GAUGE STAINLESS STEEL SECTION FALSE BOTTOM. PERFORATE FALSE BOTTOM WITH 1/4" DIA. HOLES AT 3" O.C.
7. 18 GAUGE STAINLESS STEEL INSULATED DOUBLE PAN DOOR WITH RECESSED PULL.
8. MANIFOLD DRAINS AT HOT FOOD UNITS WITH 1" TYPE 'K' COPPER AND EXTEND TO VALVE IN PLUMBING COMPARTMENT.
9. FINISHED TRUE AND LEVEL MASONRY BASE BY DIVISION 09. CLOSE COUNTER BODY AT BASE AND SEAL BY SECTION 11 40 00.
10. FISHER #22314 DRAIN WITH TAILPIECE AND OVERFLOW.
11. 14 GAUGE STAINLESS STEEL BRACKET WITH DRAIN HANDLE BUSHING.
12. 16 GAUGE STAINLESS STEEL 'Z' CLIP TO WALL AND SEAL.
13. 1 5/8" DIA. 16 GAUGE STAINLESS STEEL LEGS AND CROSS RAILS.
14. 1/2" S/S TUBING DRAIN LINE - STRAP TO SHELF AND WALL - EXTEND DOWN TO TOP OF SPLASH.
15. 1 5/8" DIA. 16 GAUGE STAINLESS STEEL TUBING - SUPPORT FRONT OF SHELF WITH 1/2" ALL-THREAD INSIDE TUBING EXTENDING TO STRUCTURE ABOVE.
16. 1/4" S/S BAR STOCK WELDED TO TOP OF EACH POST - POT HOOKS TO BE COMPONENT HARDWARE #J77-4401 SPACED 8" O.C.
17. 1 5/8" 16 GAUGE STAINLESS STEEL TUBING - BOLT TO ANGLE IRON AND EXTEND UP THRU SPLASH TO 7'-0" A.F.F.
18. OVER SHELF - 16 GAUGE STAINLESS STEEL, COVE UP REAR 2", TURN FRONT AND ENDS DOWN 1", ENDS TO BE CAPPED WITH EASED CORNERS WHERE ADJACENT TO WALL / FIXTURE.
19. 18 GAUGE STAINLESS STEEL LOUVERED PANEL.
20. 18 GAUGE STAINLESS STEEL LOUVERED DOUBLE PAN DOOR WITH RECESSED PULL.
21. NUMBER NOT USED.
22. 18 GAUGE STAINLESS STEEL INSULATED DOUBLE PAN SLIDING DOOR WITH COMPONENT HARDWARE COMPONENTS
    - A. #B57 - (VERIFY LENGTH) EXTRUDED ALUMINUM TRACK.
    - B. #B58-5511 & #B58-5521 FRONT & REAR DOOR SHEAVES.
    - C. #B62-1093 DOOR GUIDE.
    - D. #B60-1086 DOOR STOPS WHERE NEEDED.
    - E. #P62-1010 RECESS PULLS.

1 SECTION DETAIL NOTES
NOT TO SCALE

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FS SECTIONS & DETAIL

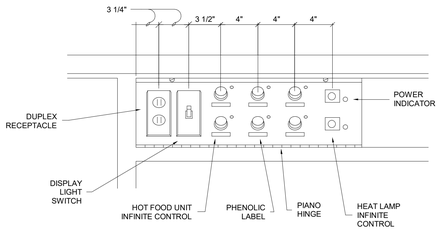
DRAWING RECORD

DATE	DESCRIPTION
04/08/2025	Issue for Permit
11/16/2025	100 % CD ISSUE FOR BID

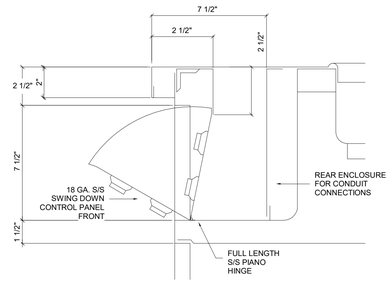
QF2

PROJECT NO.: 2022200

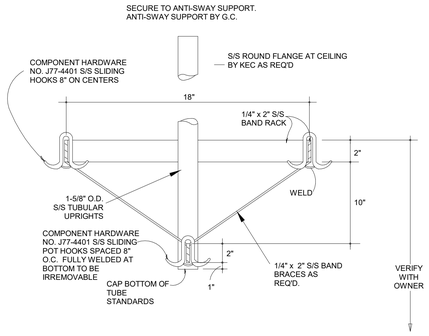
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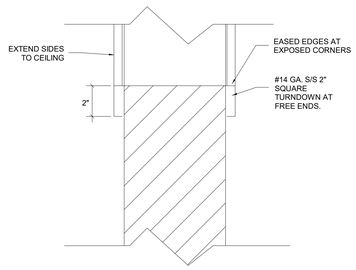
1 COUNTER - SERVING CONTROL PANEL LAYOUT DETAIL
NOT TO SCALE



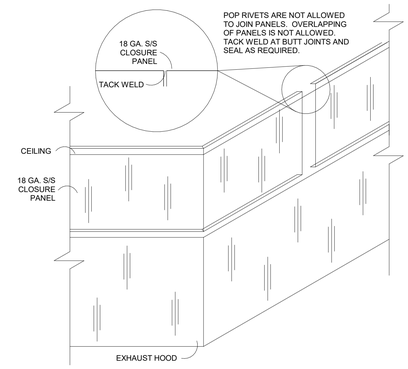
2 COUNTER - SERVING CONTROL PANEL SECTION
NOT TO SCALE



7 OVAL POT RACK - CEILING MOUNT DETAIL
NOT TO SCALE

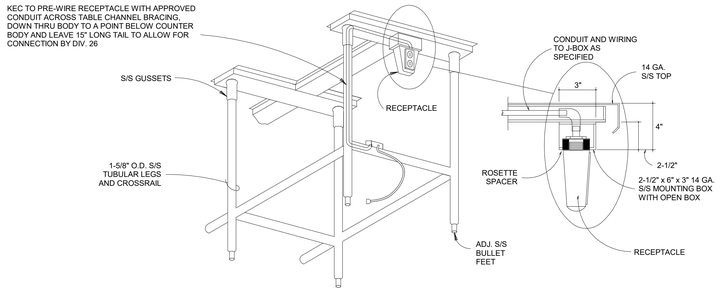


4 S/S WALL CAP DETAIL
NOT TO SCALE



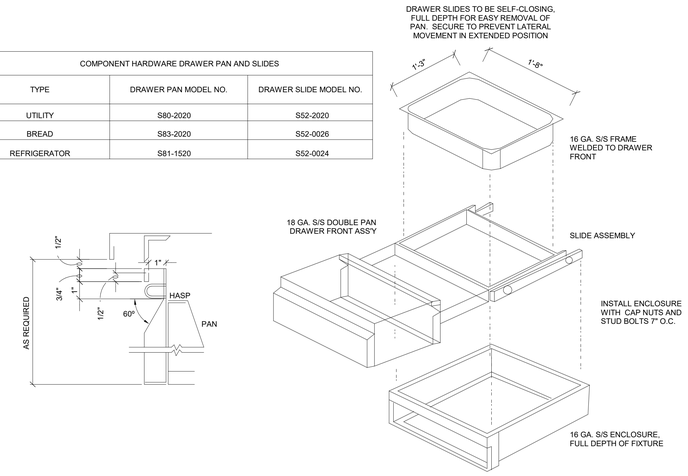
13 EXHAUST HOOD CLOSURE PANEL DETAIL
NOT TO SCALE

NOTE:
COORDINATE ALL RECEPTACLES WITH ELECTRICAL CONTRACT DRAWING REQUIREMENTS, REFER TO ELECTRICAL PLAN

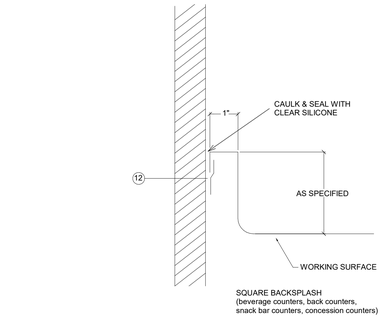


5 WORKTABLE - ELECTRICAL RECEPTACLE MOUNTED UNDER TOP DETAIL
NOT TO SCALE

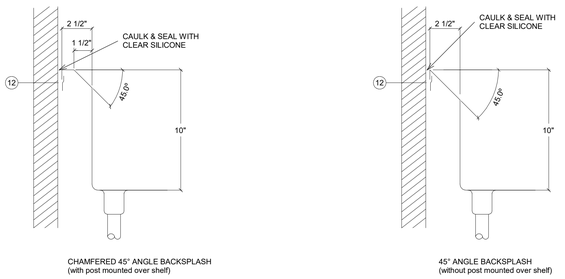
COMPONENT HARDWARE DRAWER PAN AND SLIDES		
TYPE	DRAWER PAN MODEL NO.	DRAWER SLIDE MODEL NO.
UTILITY	S80-2020	S52-2020
BREAD	S83-2020	S52-0026
REFRIGERATOR	S81-1520	S52-0024



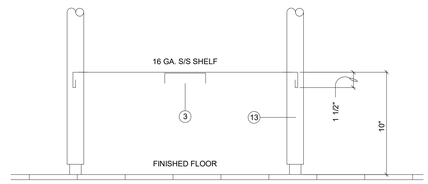
6 DRAWER ASSEMBLY DETAIL
NOT TO SCALE



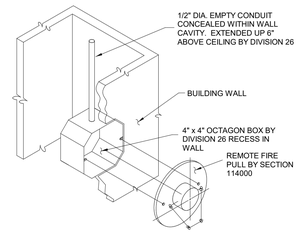
SQUARE BACKSPLASH
(beverage counters, back counters, snack bar counters, concession counters)



3 BACKSPLASH DETAILS
NOT TO SCALE

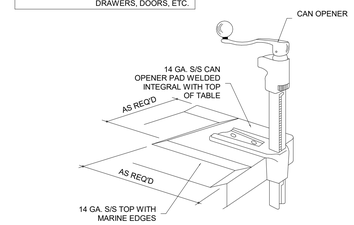


11 UNDER SHELF DETAIL
NOT TO SCALE

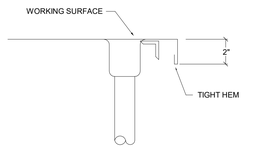


12 FIRE PROTECTION SYSTEM FIRE PULL DETAIL
NOT TO SCALE

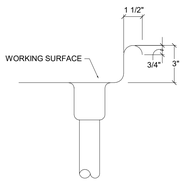
NOTE: DO NOT LOCATE CAN OPENER PAD IN A POSITION THAT WOULD ALLOW CAN OPENER TO OBSTRUCT OPENING OF DRAWERS, DOORS, ETC.



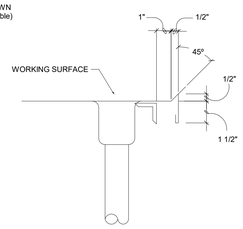
10 SINK - PREP MARINE EDGE CAN OPENER DETAIL
NOT TO SCALE



SQUARE TURNDOWN
(worktable, set-up table)

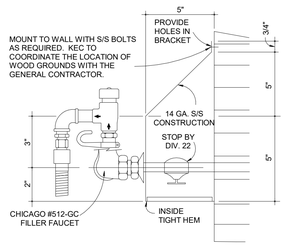


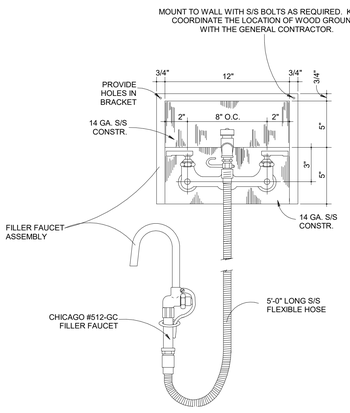
1 1/2" ROLLED RIM
(3 compartment sink)



MARINE EDGE
(prep sink)

8 EDGE DETAILS
NOT TO SCALE





9 FILL FAUCET DETAIL
NOT TO SCALE

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7720 Gayglen Drive, Dallas, TX

FS DETAILS

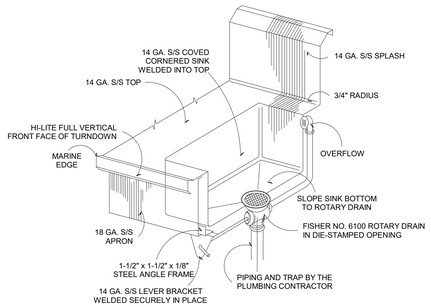
DRAWING RECORD

DATE	DESCRIPTION
04/08/2025	Issue for Permit
11/16/2025	100 % CD ISSUE FOR BID

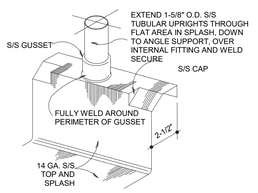
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PROJECT NO.: 2022200

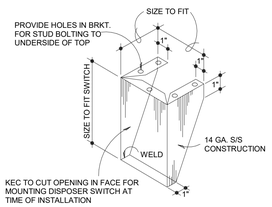
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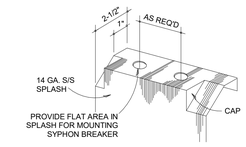
11 SINK ASSEMBLY DETAIL
NOT TO SCALE



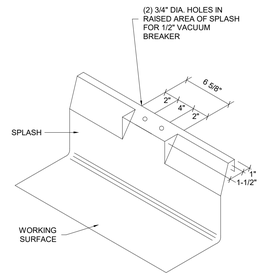
7 SPLASH @ UPRIGHT (DISH TABLE) DETAIL
NOT TO SCALE



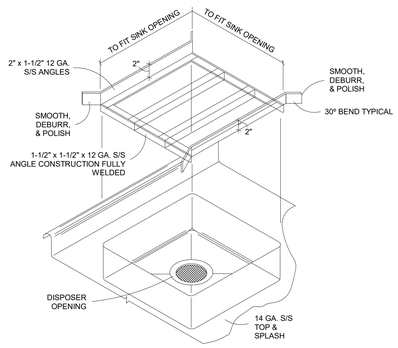
9 DISPOSER SWITCH BRACKET DETAIL
NOT TO SCALE



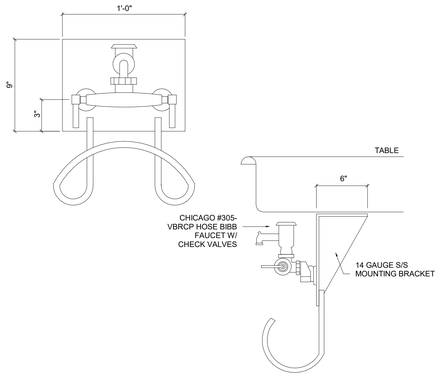
6 SPLASH @ SYPHON BREAKER
NOT TO SCALE



8 VACUUM BREAKER DETAIL
NOT TO SCALE



13 SINK - DISPOSER W/ REMOVABLE ANGLED RACK GUIDE DETAIL
NOT TO SCALE



12 HOSE BIBB DETAIL
NOT TO SCALE

CUSTOM FABRICATION NOTES:

A. WORK SHALL BE DONE IN AN APPROVED WORKMANLIKE MANNER, TO COMPLETE SATISFACTION OF THE FOODSERVICE DESIGN PROFESSIONALS (FDP).

B. STAINLESS STEEL SHALL BE U.S. STANDARD GAUGES AS CALLED FOR. 18-8, TYPE 304, NOT OVER .012% MAXIMUM CARBON, NO. 4 FINISH.

C. GALVANIZED IRON SHALL BE ARMCO OR EQUAL. FRAMEWORK OF GALVANIZED IRON SHALL BE WELDED CONSTRUCTION, HAVING WELDS SMOOTH, AND WHERE GALVANIZING HAS BURNED OFF, TOUCHED UP WITH HIGH-GRADE ALUMINUM BRONZE.

D. LEGS AND CROSSRAILS SHALL BE CONTINUOUSLY WELDED, UNLESS OTHERWISE NOTED, AND GROUND SMOOTH.

E. BOTTOM OF LEGS AT FLOOR SHALL BE FITTED WITH SANITARY STAINLESS STEEL BULLET-TYPE FOOT, WITH NO LESS THAN 1/2" ADJUSTMENT.

F. LEGS SHALL BE FASTENED TO EQUIPMENT AS FOLLOWS:

01. TO SINKS BY MEANS OF CLOSED GUSSETS. GUSSETS SHALL BE S/S, REINFORCED WITH BUSHING, HAVING SET SCREWS FOR SECURING LEGS.

02. TO TABLES AND DRAINBOARDS WITH CLOSED GUSSETS WHICH SHALL BE WELDED TO GALVANIZED HAT SECTIONS OR CHANNELS, 14 GAUGE OR HEAVIER, EXPOSED HAT SECTIONS HAVING CLOSED ENDS. BRACING SHALL BE UNDERSIDE OF TOPS.

G. CLOSED GUSSETS SHALL BE 3" MINIMUM DIAMETER AT TOP, WELDED TO FRAME MEMBERS OR TO SINK BOTTOM.

H. ROLLS SHALL BE 1 1/2" DIAMETER, EXCEPT AS DETAILED TO THE CONTRARY, WITH CORNERS BULLNOSED, GROUND, AND POLISHED.

I. SEAMS AND JOINTS SHALL BE SHOP-WELDED WHERE POSSIBLE. WELDS TO BE GROUND AND POLISHED TO MATCH ORIGINAL FINISH. MATERIALS 18 GAUGE OR HEAVIER SHALL BE WELDED.

J. METAL TOPS SHALL BE ONE-PIECE WELDED CONSTRUCTION UNLESS SPECIFIED OTHERWISE, REINFORCED ON UNDERSIDE WITH GALVANIZED HAT SECTIONS OR CHANNELS WELDED IN PLACE. CROSSBRACE TO BE NOT MORE THAN 30" ON CENTERS.

K. HARDWARE SHALL BE SOLID MATERIALS AND EXCEPT WHERE EXPOSED OR SPECIFIED TO THE CONTRARY, OF CAST BRASS, CHROME-PLATED. IDENTIFY ALL HARDWARE WITH MANUFACTURER'S NAME AND NUMBER SO THAT BROKEN OR WORN PARTS MAY BE ORDERED AND REPLACED.

L. FABRICATE SINK COMPARTMENTS WITH 3/4" COVED VERTICAL AND HORIZONTAL CORNERS. MULTIPLE- COMPARTMENT PARTITIONS TO BE DOUBLE THICKNESS, CONTINUOUSLY WELDED WHERE SHEETS JOIN AT TOP. FRONT OF MULTIPLE-COMPARTMENT PARTITIONS TO BE CONTINUOUS ON EXTERIOR. BOTTOMS SHALL BE CREASED TO DRAIN.

M. ENDS OF FIXTURES, SPLASHBACKS, SHELVES, ETC., SHALL BE FINISHED FLUSH TO WALLS OR ADJOINING FIXTURES.

N. DISHTABLES, DRAINBOARDS, SPLASHBACKS, AND TURN-UP EDGES SHALL HAVE RADIUS BENDS IN ALL HORIZONTAL AND VERTICAL CORNERS, COVED AT INTERSECTIONS.

O. ROUNDED AND COVED CORNERS OR RADIUS BENDS SHALL BE 1/2" RADIUS OR LONGER.

P. UNDERSIDES OF TOPS TO BE COATED WITH HEAVY-BODIED RESINOUS MATERIAL COMPOUND FOR PERMANENT, NON-FLAKING ADHESION TO METAL, 1/8" THICK, APPLIED AFTER REINFORCING MEMBERS HAVE BEEN INSTALLED, DRYING WITHOUT DIRT-CATCHING CREVICES.

Q. SHELVES ARE TO BE TURNED UP 2" ON THE BACK EDGE. TURN OTHER EDGES DOWN 1 1/2" TO FORM OPEN CHANNELS. REINFORCE SHELF UNITS TO SUPPORT 40 LBS. PER SQUARE FOOT LOADING, PLUS 100% IMPACT LOADING.

R. TRIMWORK AND FRAMING AT MASONRY OPENINGS SHALL BE 18 GAUGE STAINLESS STEEL AND FORMED SO AS TO FIT SNUG TO WALLS AND ADJACENT SURFACES. FRAMING SHALL EXTEND A MINIMUM OF 2" ON EACH SURFACE. SEAL TRIMWORK TO WALLS. REFER TO DRAWINGS.

S. METAL COMPONENTS, UNLESS SPECIFIED OR NOTED OTHERWISE, TO BE THE FOLLOWING GAUGES:

TABLETOPS	14 GAUGE STAINLESS STEEL
WALL SHELVES	16 GAUGE STAINLESS STEEL
UNDER SHELVES	16 GAUGE STAINLESS STEEL
SINKS & DRAINBOARDS	14 GAUGE STAINLESS STEEL
EXHAUST DUCTS	18 GAUGE STAINLESS STEEL
LEGS - 1 5/8" DIA.	16 GAUGE STAINLESS STEEL

10 CUSTOM FAB NOTES
NOT TO SCALE

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

FDP

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DALLAS INDEPENDENT SCHOOL DISTRICT

McKISSACK McKISSACK

DISD Blair Elementary

7720 Gayglen Drive, Dallas, TX

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QF2.2

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