PATHWAYS LEARNING CENTER WATER INTRUSION AND ROOF REPAIRS

BEAUMONT INDEPENDENT SCHOOL DISTRICT

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BEAUMONT, TX 77701

OWNER

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ABBREVIATIONS

A.B.	ANCHOR BOLT	DR	DOOR	HW	HOT WATER	OPNG	OPPOSITE	THK	THICK(NESS)
A/C	AIR CONDITIONING	DS DWD	DOWNSPOUT	ID	INCIDE DIAMETED	OPP	OPPOSITE	TI	TENANT IMPROVEMENT
ACT	ACOUSTICAL CEILING TILE	DWR	DRAWER	ID	INSIDE DIAMETER INCH	DEDD	DEDDENDIQUI AD	TO	TOP OF (SPECIFY ITEM)
A.D.	AREA DRAIN	Ε.Δ	EACH	IN		PERP	PERPENDICULAR	TOC	TOP OF CURB / CONCRETE
ADA	AMERICANS WITH DISABILITIES ACT	EA EF	EACH EACH FACE / EXHAUST FAN	INCL INSUL	INCLUDE(D) INSULATION	PL PLAM	PLATE (OR PROPERTY LINE) PLASTIC LAMINATE	TOP	TOP OF PARAPET
٨٦١	ADJUSTABLE	EJ	EXPANSION JOINT	INT	INTERIOR	PLAIVI	PLASTIC LAMINATE PLASTER	TOS TOW	TOP OF STEEL TOP OF WALL
ADJ AFF	ABOVE FINISH FLOOR	EIFS	EXPANSION JOINT EXTERIOR INSULATED	INV	INVERT	PLAS PLYWD	PLYWOOD	TPTN	TOP OF WALL TOILET PARTITION
ALT	ALTERNATE	EIFS	FINISH SYSTEM	IINV	INVERI	PLYWD	PANEL		TUBULAR STEEL
ALUM	ALUMINUM	ELEC	ELECTRICAL	JAN	JANITOR	PNT	PAINT	TS TV	
ALOW	ANODIZED	ELEV	ELEVATION	JST	JOIST	PR	PAIR	TYP	TELEVISION TYPICAL
APPROX	APPROXIMATE	EMER	EMERGENCY	JT	JOINT	PSF	POUNDS PER SQUARE FOOT	ITP	TYPICAL
ARCH	ARCHITECT(URAL)	ENCL	ENCLOSURE	JI	JOHN	PSI	POUNDS PER SQUARE INCH	UC	UNDERCOUNTER
ASPH	ASPHALT	EQ	EQUAL	KD	KNOCK DOWN	PT	PRESSURE TREATED	UL	UNDERWRITERS LABORATORY
ASFII	ASFIALI	EQUIP	EQUIPMENT	KIT	KITCHEN	PTN	PARTITION	UNO	UNLESS NOTED OTHERWISE
BD	BOARD	EW	EACH WAY	KO	KNOCK OUT	PVC	POLYVINYL CHLORIDE	UNO	UNLESS NOTED OTTERWISE
BIT	BITUMINOUS	EWC	ELECTRIC WATER COOLER	NO	KNOCK OUT	FVC	FOLT VINTE CHECKIDE	VCT	VINYL COMPOSITION TILE
BLDG	BUILDING	EXH	EXHAUST	LAB	LABORATORY	RA	RETURN AIR	VENT	VENTILATION
BLKG	BLOCKING	EXIST	EXISTING	LAB	LAMINATE(D)	RAD	RADIUS	VENT	VERTICAL
BLNG	BEAM	EXP	EXPANSION / EXPOSED	LAV	LAVATORY	RB	RESILIENT BASE	VEST	VESTIBULE
B.O.	BOTTOM OF	EXT	EXTERIOR	LAV	LINEAL FOOT	RCP	REFLECTED CEILING PLAN	VEST	VESTIBULE VERIFY IN FIELD
BOT	BOTTOM	LXI	EXTERIOR	LH	LEFT HAND	RD	ROOF DRAIN	VR	VAPOR RETARDER
BRG	BEARING	FD	FLOOR DRAIN	LHR	LEFT HAND REVERSE	REBAR	REINFORCING BAR	VTR	VENT THRU ROOF
BTWN	BETWEEN	FDN	FOUNDATION	LL	LIVE LOAD	REC	RECESSED	VWC	VINYL WALL COVERING
BUR	BUILT-UP ROOF	FE	FIRE EXTINGUISHER	LLH	LONG LEG HORIZONTAL	REF	REFERENCE	VVVC	VIIVIE WALL COVERING
DOIL	BOILT OF ROOF	FEC	FIRE EXTINGUISHER	LLV	LONG LEG VERTICAL	REFR	REFRIGERATOR	WC	WATER CLOSET
CAB	CABINET	1 20	CABINET	LWC	LIGHT WEIGHT CONCRETE	REINF	REINFORCING / REINFORCED	WD	WOOD
CBU	CEMENTITIOUS	FF	FINISH FLOOR	LVVO	EIGITI WEIGITI GONGKETE	REQD	REQUIRED	WDW	WINDOW
OBO	BACKER UNIT	FFE	FINISH FLOOR ELEVATION	MACH	MACHINE	RES	RESILIENT	W/	WITH
C/C	CENTER-TO-CENTER	FIN	FINISH	MAS	MASONRY	REV	REVISION	WH	WATER HEATER
CEM	CEMENT	FLR	FLOOR	MATL	MATERIAL	RH	RIGHT HAND	W/O	WITHOUT
CER	CERAMIC	FLUOR	FLUORESCENT	MAX	MAXIMUM	RHR	RIGHT HAND REVERSE	WP	WATERPROOF
C.G.	CORNER GUARD	FM	FACTORY MUTUAL	MDF	MEDIUM DENSITY FIBERBOARD	RM	ROOM	WR	WATER RESISTANT
C.I.P.	CAST-IN-PLACE	FO	FACE OF (SPECIFY ITEM)	MECH	MECHANICAL	RO	ROUGH OPENING	WT	WEIGHT
C.J.	CONTROL JOINT	FOB	FACE OF BRICK	MEMB	MEMBRANE	RWL	RAINWATER LEADER	WWF	WELDED WIRE FABRIC
CL	CENTERLINE	FOC	FACE OF CONCRETE	MFR	MANUFACTURER	R&S	ROD AND SHELF	WWM	WELDED WIRE MESH
CLG	CEILING	FOS	FACE OF STUD	MEZZ	MEZZANINE				
CLR	CLEAR(ANCE)	FR	FIRE RESISTIVE	MH	MANHOLE	SC	SOLID CORE	YD	YARD
CLOS	CLOSET	FT	FEET / FOOT	MIN	MINIMUM	SCHED	SCHEDULE		
CMU	CONCRETE	FTG	FOOTING	MIR	MIRROR	SF	SQUARE FEET		
	MASONRY UNIT	FURR	FURRING / FURRED	MISC	MISCELLANEOUS	SHT	SHEET		
C.O.	CLEAN OUT			MO	MASONRY OPENING	SIM	SIMILAR		
COL	COLUMN	GA	GUAGE	MR	MOISTURE RESISTANT	SPEC	SPECIFICATION		
CONC	CONCRETE	GALV	GALVANIZED	MTL	METAL	SQ	SQUARE		
CONSTR	CONSTRUCTION	GB	GRAB BAR	MULL	MULLION	SS	STAINLESS STEEL		
CONT	CONTINUOUS	GC	GENERAL CONTRACTOR			ST	STONE		
COORD	COORDINATE	GL	GLASS / GLAZING	N/A	NOT APPLICABLE	STC	SOUND TRANSMISSION CLASS		
CORR	CORRIDOR	GND	GROUND	NIC	NOT IN CONTRACT	STD	STANDARD		
CTR	CENTER	GR	GRADE	NO.	NUMBER	STL	STEEL		
C.Y.	CUBIC YARD	GWB	GYPSUM WALLBOARD	NOM	NOMINAL	STOR	STORAGE		
		GYP	GYPSUM	NTS	NOT TO SCALE	STRUCT	STRUCTURAL		
DBL	DOUBLE					SUSP	SUSPENDED		
DEMO	DEMOLITION	HB	HOSE BIB	OC	ON CENTER	SYM	SYMMETRICAL		
DEPT	DEPARTMENT	HC	HOLLOW CORE	OD	OUTSIDE DIAMETER				
DET	DETAIL	HDR	HEADER		(OR OVERFLOW DRAIN)	TAS	TEXAS ACCESSIBILITY		
DIA	DIAMETER	HDWR	HARDWARE	OFCI	OWNER FURNISHED/		STANDARDS		
DIAG	DIAGONAL	HM	HOLLOW METAL		CONTRACTOR INSTALLED	T&B	TOP AND BOTTOM		
DIM	DIMENSION	HORIZ	HORIZONTAL	OFOI	OWNER FURNISHED/	T&G	TONGUE AND GROOVE		
DISP	DISPENSER	HT	HEIGHT	.	OWNER INSTALLED	TBD	TO BE DETERMINED		
DL	DEAD LOAD	HVAC	HEATING, VENTILATION,	ОН	OPPOSITE HAND (OR	TEL	TELEPHONE		

Sheet	List	Table
Sheet Number	Sheet Title	
General		

G000	Cover Sheet
G100	Texas Accessibility Standards
G101	Texas Accessibility Standards
G102	Texas Accessibility Standards
Architectural	
A100	Overall General Campus Plan
A101	Floor Plan
A301	Reflected Ceiling Plan
F101	Floor Tile Pattern and Finish Schedule
SN101	Signage Plan
Envelope Consu	ultant
R2.00	Existing Roof Plan
DO 04	N D (D)

112.00	Existing Roof Flair
R2.01	New Roof Plan
R5.00	Details
Structural	
S1	Foundation Plan & Details

M0.01	Mechanical Demolition Plan
M1.01	Mechanical Floor Plan
M1.02	Mechanical Enlarged Floor Plans
M2.01	Mechanical Details
M2.02	Mechanical Details and Legends
M3.01	Mechanical Piping Diagram
M3.02	Mechanical Piping Diagram
M5.01	Mechanical Schedules

Electrical	
E0.01	Electrical Demolition Floor Plan
E1.01	Electrical Floor Plan
E2.01	Electrical Details, Legends, and Sch
E4.01	Electrical Details, Legends, and Sch

Plumbing	
P0.01	Plumbing Demolition Floor Plan
P1.01	Plumbing Floor Plan
P1.02	Plumbing Floor Plan
P2 01	Plumbing Details, Legends, and So

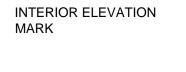
VICINITY MAP

Harbor Island

SYMBOL KEY

ENLARGED DETAIL

KEYNOTE





WINDOW TYPE



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MATERIAL LEGEND

BLOCKING OR SHIM (CONTINUOUS)

AND AIR CONDITIONING

BLOCKING OR SHIM (INTERMITTENT)

INSULATION



GYPSUM BOARD

MASONRY

OVERHEAD)

DOOR NUMBER **TOILET ACCESSORY**

TER

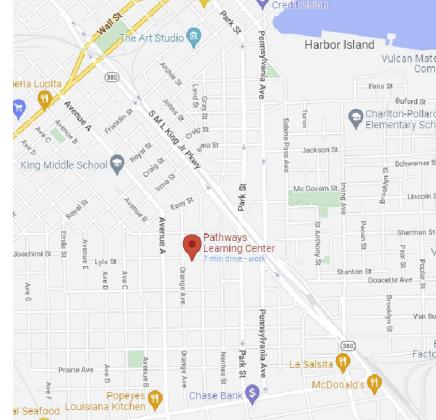
PARTITION TYPES

TERRAZZO

EXTERIOR ELEVATION TAG

ROOM NAME & NUMBER





SHEET NUMBER

DRAWINGS SHEET TITLE

COVER SHEET

CENTER WATER INTRUSION OF REPAIRS

LEARNING AND RO

ATHWAYS

SCHEMATIC DESIGN

DATE: 3/17/2022

DATE: 4/15/2022

DATE:___

REVISION: DATE:___

REVISION:

DESIGN DEVELOPMENT X

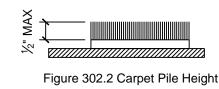
BIDS & CONSTRUCTION X

EXCEPTIONS:

1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.

2. Areas of sport activity shall not be required to comply with 302.

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

1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

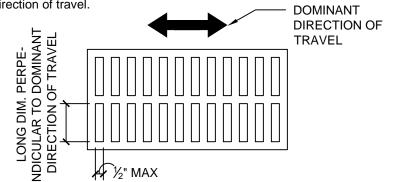


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

303 CHANGE IN LEVELS

303.1 GENERAL. Where changes in level are permitted in floor or ground surfaces, they shall with 303.

1. Animal containment areas shall not be required to comply with 303. 2. Areas of sport activity shall not be required to comply with 303.

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

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

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

304 TURNING SPACE

304.1 GENERAL. Turning space shall comply with 304.

304.2 FLOOR OR GROUND SURFACES. Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

304.3 SIZE. Turning space shall comply with 304.3.1 or 304.3.2.

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

304.3.2 T-SHAPED SPACE. The turning space shall be a T-shaped space within a 60 inch (1525

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.

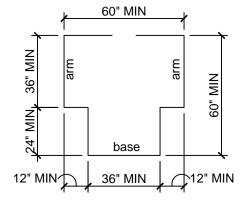


Figure 304.3.2 T-Shaped Turning Space

304.4 DOOR SWING. Doors shall be permitted to swing into turning spaces.

305.1 GENERAL. Clear floor or ground space shall comply with 305.

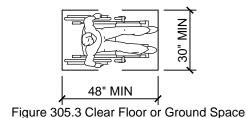
305 CLEAR FLOOR SPACE OR GROUND FLOOR SPACE

305.2 FLOOR OR GROUND SURFACES. Floor or ground surfaces of a clear floor or ground space

comply with 302. Changes in level are not permitted.

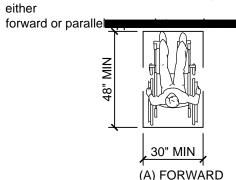
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

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



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



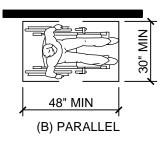


Figure 305.5 Position of Clear Floor or Ground Space

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 exceeds 24 inches (610 mm)

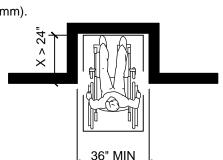


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 PARALLEL APPROACH. Alcoves shall be 60 inches (1525 mm) wide minimum where the

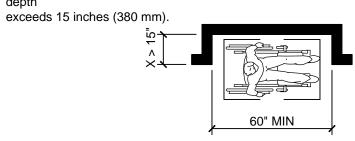
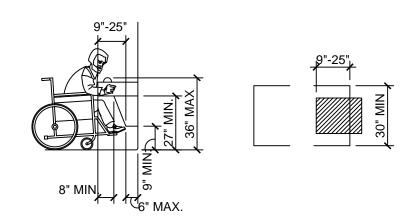


Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 KNEE AND TOE CLEARANCE

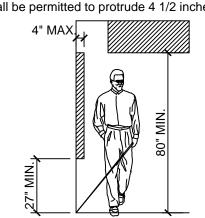


307 PORTRUDING OBJECTS

307.2 PROTRUSION LIMITS. Objects with leading edges more than 27 inches (685 mm) and not

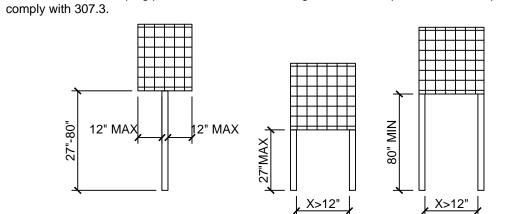
than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.



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

EXCEPTION: The sloping portions of handrails serving stairs and ramps shall not be required to



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.

Figure 307.3 Post-Mounted Protruding Objects

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum

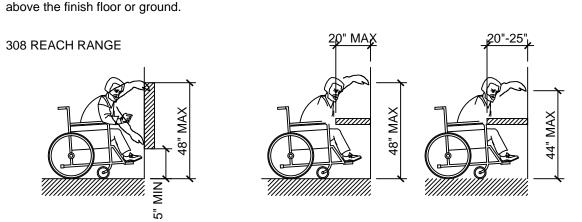


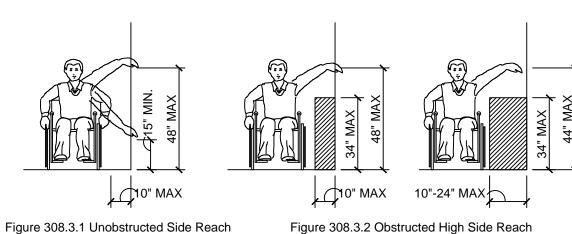
Figure 308.2.1 Unobstructed Forward Reach Figure 308.2.2 Obstructed High Forward Reach

308.3 SIDE REACH.

308.3.1 UNOBSTRUCTED. Where a clear floor or ground space allows a parallel approach to an 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.

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.



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.

1. The top of washing machines and clothes dryers shall be permitted to be 36 inches (915 mm) maximum above the finish floor.

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.

309 OPERABLE PARTS

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

EXCEPTION: Gas pump nozzles shall not be required to provide operable parts that have an activating force of 5 pounds (22.2 N) maximum.

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 SURFACE

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.

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

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.

403.5.1 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: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

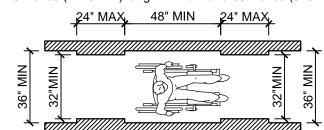


Figure 403.5.1 Clear Width of an Accessible Route

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.

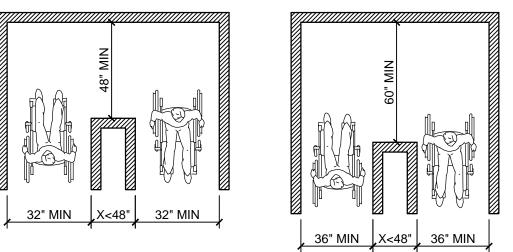


Figure 403.5.2 Clear Width at Turn Figure 403.5.2 Clear Width at Turn (EXCEPTION)

403.5.3 PASSING SPACES. An accessible route with a clear width less than 60 inches (1525 mm) 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

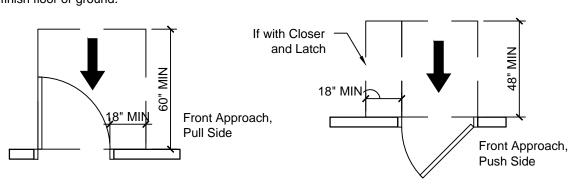
walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of

Toshaped space extend 48 inches (1220 mm) minimum beyond the intersection.

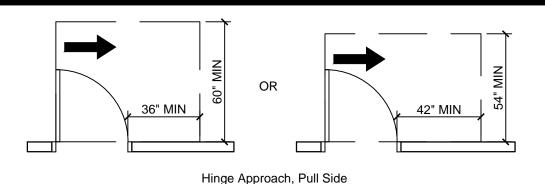
404.2.3 CLEAR WIDTH. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

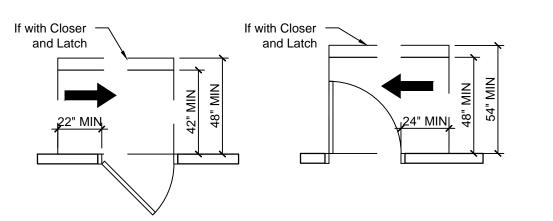
1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.

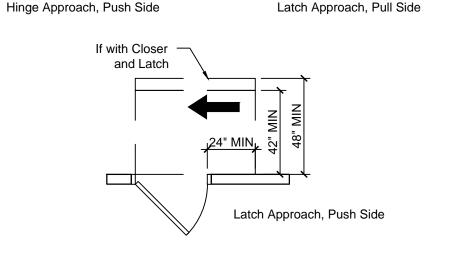
2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.



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404.2.6 DOORS IN SERIES AND GATES IN SERIES. The distance between two hinged or pivoted series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

404.2.10 DOOR AND GATE SURFACES. Swinging door and gate surfaces within 10 inches (255 the finish floor or ground measured vertically shall have a smooth surface on the push side extending

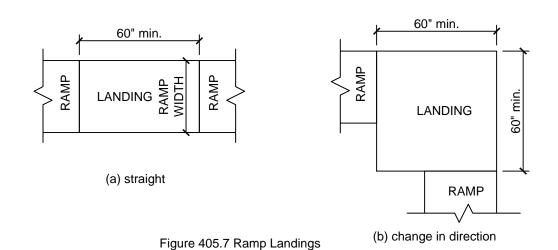
the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped 405 RAMPS

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.

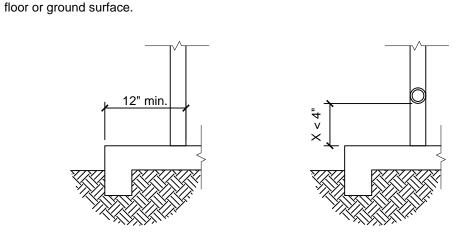
> 1:8 SLOPE = 3" Maximum Rise 1:10 SLOPE = 6" Maximum Rise

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



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



Ground Surface Edge Protection

Figure 405.9.1 Extended Floor or

406 CURB RAMPS

406.1 GENERAL. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5,

Figure 405.9.2 Curb or

Barrier Edge Protection

406.2 COUNTER SLOPE. Counter slopes of adjoining gutters and road surfaces immediately adjacent 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.

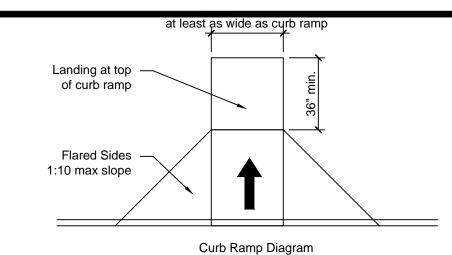


406.3 SIDES OF CURB RAMPS. Where provided, curb ramp flares shall not be steeper than 1:10.

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.

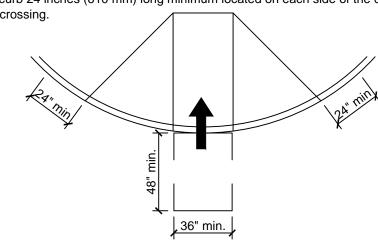
406.5 LOCATION. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.



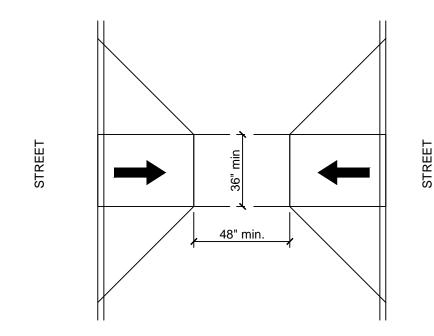
406.6 DIAGONAL CURB RAMPS. Diagonal or corner type curb ramps with returned curbs or other

defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of

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.



406.7 ISLANDS. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.



502 PARKING SPACES

502.2 VEHICLE SPACES. Car parking spaces shall be 96 inches (2440 mm) wide minimum 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

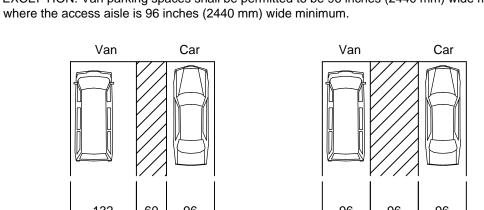


Figure 502.2 Vehicle Parking Spaces

Figure 502.2 Vehicle Parking Spaces

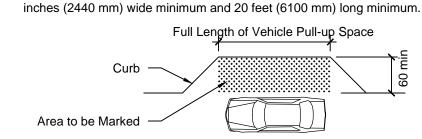
502.3.4 LOCATION. Access aisles shall not overlap the vehicular way. Access aisles shall be to be placed on either side of the parking space except for angled van parking spaces which shall

have access aisles located on the passenger side of the parking spaces. 502.5 VERTICAL CLEARANCE. Parking spaces for vans and access aisles and vehicular routes

them shall provide a vertical clearance of 98 inches (2490 mm) minimum.

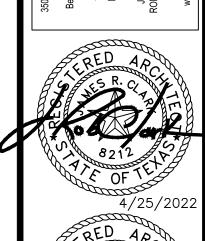
502.6 IDENTIFICATION. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the

503.2 VEHICLE PULL-UP SPACE. Passenger loading zones shall provide a vehicular pull-up space



finish floor or ground surface measured to the bottom of the sign.

503 PASSENGER LOADING ZONES



INTRUSION ER

> \bigcirc R AND ATHW/

ISSUED FOR SCHEMATIC DESIGN X DATE: 1/27/2022 DESIGN DEVELOPMENT X DATE: 3/17/2022

BIDS & CONSTRUCTION X DATE: 4/15/2022 REVISION: DATE:__

REVISION: DATE:_ REVISION: DATE:_

DRAWINGS SHEET TITLE

TEXAS **ACCESSIBILITY STANDARDS**

SHEET NUMBER

504.3 OPEN RISERS. Open risers are not permitted.

504.4 TREAD SURFACE. Stair treads shall comply with 302. Changes in level are not permitted

EXCEPTION: Treads shall be permitted to have a slope not steeper than 1:48. 504.5 NOSINGS. The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or

beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from

vertical. The permitted projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the

505 HANDRAILS

in aisles serving seating.

505.2 WHERE REQUIRED. Handrails shall be provided on both sides of stairs and ramps.

EXCEPTION: In assembly areas, handrails shall not be required on both sides of aisle ramps where a handrail is provided at either side or within the aisle width.

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

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

EXCEPTION: In assembly areas, handrails on ramps shall not be required to be continuous

505.5 CLEARANCE. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1

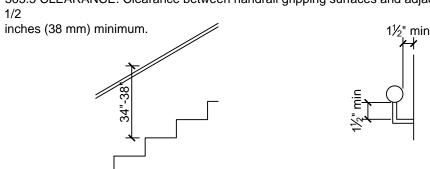


Figure 505.4 Handrail Height

505.6 GRIPPING SURFACE. Handrail gripping surfaces shall be continuous along their length and

Handrail Clearances

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.

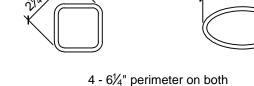
1. Where handrails are provided along walking surfaces with slopes not steeper than 1:20, the bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards.

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).

505.7.1 CIRCULAR CROSS SECTION. Handrail gripping surfaces with a circular cross section shall 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

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_{31/2} inches (57 mm) maximum.



 $4 - 6\frac{1}{4}$ " perimeter on both

505.10.1 TOP AND BOTTOM EXTENSION AT RAMPS. Ramp handrails shall extend horizontally

landing for 12 inches (305 mm) minimum beyond the top and bottem ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent

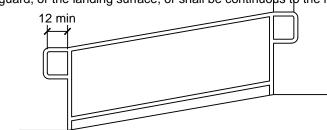
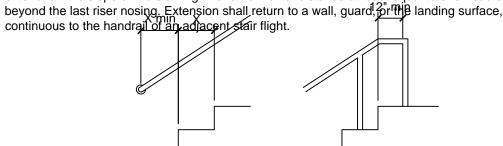


Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

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.

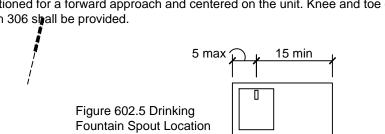
505.10.3 BOTTOM EXTENSION AT STAIRS. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing Extension shall return to a wall, guard and landing surface, or shall be



Top and Bottom Handrail Extension at Stairs

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.



602.6 WATER FLOW. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

602.7 DRINKING FOUNTAINS FOR STANDING PERSONS. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

603 TOILET AND BATHING ROOMS

603.2.2 OVERLAP. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 DOOR SWING. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

1. Doors to a toilet room or bathing room for a single occupant accessed only through a private office and not for common use or public use shall be permitted to swing into the clear floor space or clearance provided the swing of the door can be reversed to comply with 603.2.3.

2. Where the toilet room or bathing room is for individual use and a clear floor space complying with 305.3 is provided within the room beyond the arc of the door swing, doors shall be permitted to swing into the clear floor space or clearance required for any fixture.

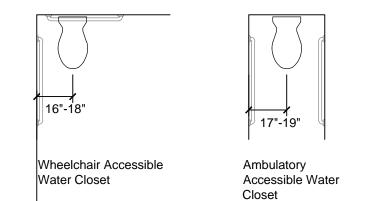
603.3 MIRRORS. Mirrors located above lavatories or countertops shall be installed with the bottom

of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

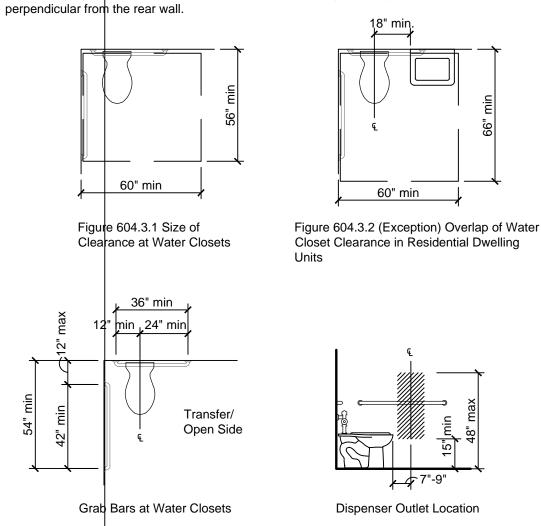
603.4 COAT HOOKS AND SHELVES. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604 WATER CLOSETS AND TOILET COMPARTMENTS

604.2 LOCATION. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.



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

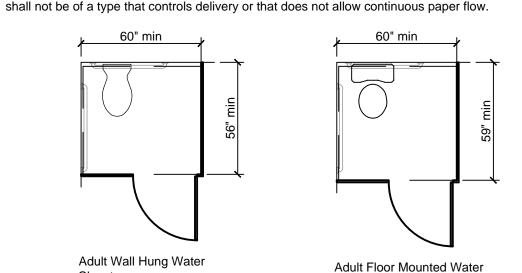


EXCEPTIONS: 1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.

2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

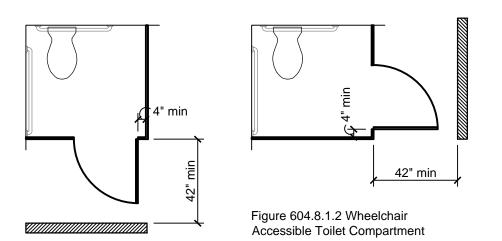
604.7 DISPENSERS. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180

minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers



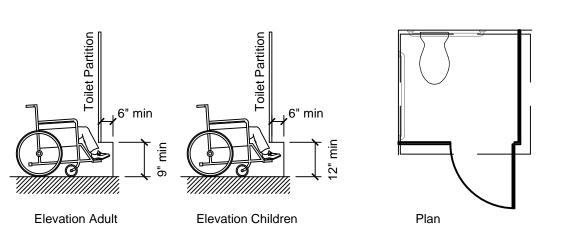
Closet/ Children Water Closet

604.8.1.2 DOORS. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.



604.8.1.4 TOE CLEARANCE. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

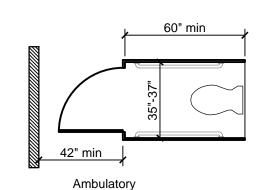
EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floormounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.



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

604.8.2.2 DOORS. Toilet compartment doors, including door hardware, shall comply with 404,

that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.



605.2 HEIGHT AND DEPTH. Urinals shall be the stall-type or the wall-hung type with the rim 17

Compartment

(430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

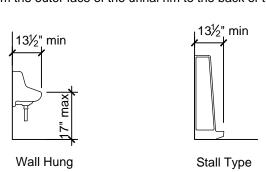


Figure 605.2 Height and Depth of Urinals

606 LAVATORIES AND SINKS

606.2 CLEAR FLOOR SPACE. A clear floor space complying with 305, positioned for a forward and knee and toe clearance complying with 306 shall be provided.

1. A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a

cook top or conventional range is not provided and to wet bars.

(b) the finish floor extends under the cabinetry; and

2. A lavatory in a toilet room or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to provide knee and toe clearance complying with 306.

3. In residential dwelling units, cabinetry shall be permitted under lavatories and kitchen sinks provided that all of the following conditions are met: (a) the cabinetry can be removed without removal or replacement of the fixture;

(c) the walls behind and surrounding the cabinetry are finished. 4. A knee clearance of 24 inches (610 mm) minimum above the finish floor or ground shall

be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches (785 mm) maximum above the finish floor or ground. 5. A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily

by children 5 years and younger. 6. The dip of the overflow shall not be considered in determining knee and toe clearances.

7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance complying with 306.

606.3 HEIGHT. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

606.4 FAUCETS. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

607 BATHTUBS

607.2 CLEARANCE. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

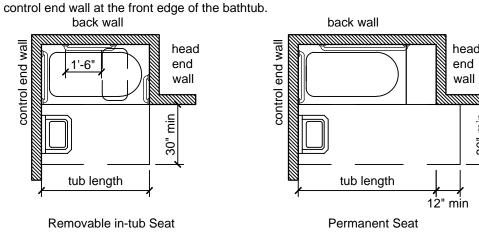
607.3 SEAT. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.

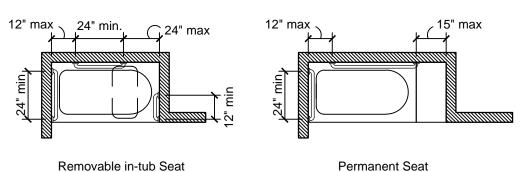
607.4 GRAB BARS. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.

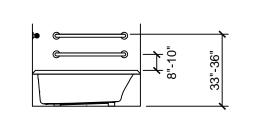
607.4.1 BATHTUBS WITH PERMANENT SEATS. For bathtubs with permanent seats, grab bars shall be provided in accordance with 607.4.1.

607.4.1.1 BACK WALL. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be installed 15 inches (380 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.1.2 CONTROL END WALL. A grab bar 24 inches (610 mm) long minimum shall be installed on





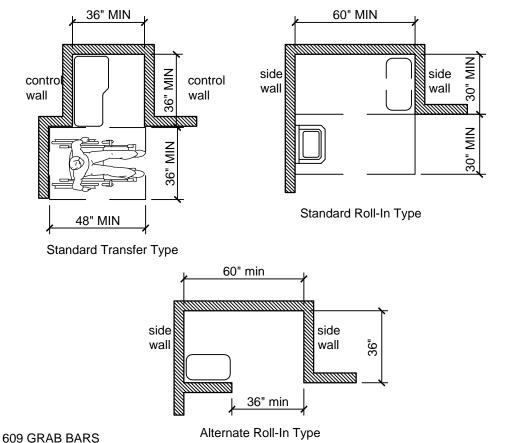


607.5 CONTROLS. Controls, other than drain stoppers, shall be located on an end wall. Controls

be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4. 607.6 SHOWER SPRAY UNIT AND WATER. A shower spray unit with a hose 59 inches (1500 mm)

minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum. 608 SHOWER COMPARTMENTS

608.2.1 TRANSFER TYPE SHOWER COMPARTMENTS. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the shower compartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.



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

609.2.2 NON-CIRCULAR CROSS SECTION. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

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

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

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

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

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

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

610 SEATS

610.2 BATHTUB SEATS. The top of bathtub seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. The depth of a removable in-tub seat shall be 15 inches (380 mm) minimum and 16 inches (405 mm) maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches (380 mm) deep minimum and shall extend from the back wall to or beyond the outer edge of the

610.3 SHOWER COMPARTMENT SEATS. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer-type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.3.1 or 610.3.2.

610.3.1 RECTANGULAR SEATS. The rear edge of a rectangular seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent

610.3.2 L-SHAPED SEATS. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the "L" shall be 22 inches (560 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

702 FIRE ALARM SYSTEMS

702.1 GENERAL. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

EXCEPTION: Fire alarm systems in medical care facilities shall be permitted to be provided in accordance with industry practice.

highly decorative, or of other unusual forms.

703.1 GENERAL. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and with tactile characters, shall be provided.

703.2 RAISED CHARACTERS. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with

703.2.1 DEPTH. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 CASE. Characters shall be uppercase. 703.2.3 STYLE. Characters shall be sans serif. Characters shall not be italic, oblique, script,

703.2.4 CHARACTER PROPORTIONS. Characters shall be selected from fonts where the vidth $\,$ of $\,$ the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height o the uppercase letter "I".

703.2.5 CHARACTER HEIGHT. Character height measured vertically from the baseline of the

shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I". 703.2.6 STROKE THICKNESS. Stroke thickness of the uppercase letter "I" shall be 15 percent

of the height of the character. 703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 LINE SPACING. Spacing between the baselines of separate lines of raised characters within

message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 BRAILLE. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 DIMENSIONS AND CAPITALIZATION. Braille dots shall have a domed or rounded shape comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences proper nouns and names, individual letters of the alphabet, initials, and

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

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

705.1.3 CONTRAST. Detectable warning surfaces shall contrast visually with adjacent walking

either light-on-dark, or dark-on-light. 708 TWO-WAY COMMUNICATION SYSTEMS

708.3 HANDSETS. Handset cords, if provided, shall be 29 inches (735 mm) long minimum.

708.4 RESIDENTIAL DWELLING UNIT COMMUNICATION SYSTEMS. Communications systems between a residential dwelling unit and a site, building, or floor entrance shall comply with

708.4.1 COMMON USE OR PUBLIC USE SYSTEM INTERFACE. The common use or public use system interface shall include the capability of supporting voice and TTY communication with the residential dwelling unit interface.

708.4.2 RESIDENTIAL DWELLING UNIT INTERFACE. The residential dwelling unit system interface shall include a telephone jack capable of supporting voice and TTY communication with the common use or public use system interface.

INTRUSION 吊 ER $\overline{\mathbf{\alpha}}$ \bigcirc 8

AND

ATHW,

ISSUED FOR SCHEMATIC DESIGN X

DESIGN DEVELOPMENT X DATE: 3/17/2022 BIDS & CONSTRUCTION X

DATE: 4/15/2022 REVISION: DATE:___

DATE: 1/27/2022

REVISION: DATE:_ REVISION: DATE:_

DRAWINGS SHEET TITLE

TEXAS ACCESSIBILITY STANDARDS

SHEET NUMBER

comply with 216.

3. Temporary, 7 days or less, signs shall not be required to comply with 216. 4. In detention and correctional facilities, signs not located in public use areas shall not be required to

216.2 Designations. Interior and exterior signs identifying permanent rooms and spaces shall comply with 703.1, 703.2, and 703.5. Where pictograms are provided as designations of permanent interior rooms and spaces, the pictograms shall comply with 703.6 and shall have text descriptors complying with 703.2 and 703.5.

EXCEPTION: Exterior signs that are not located at the door to the space they serve shall not be required to comply with 703.2.

Advisory 216.2 Designations. Section 216.2 applies to signs that provide designations, labels, or names for interior rooms or spaces where the sign is not likely to change over time. Examples include interior signs labeling restrooms, room and floor numbers or letters, and room names. Tactile text descriptors are required for pictograms that are provided to label or identify a permanent room or space. Pictograms that provide information about a room or space, such as "no smoking," occupant logos, and the International Symbol of Accessibility, are not required to have text descriptors.

216.3 Directional and Informational Signs. Signs that provide direction to or information about interior spaces and facilities of the site shall comply with 703.5.

Advisory 216.3 Directional and Informational Signs. Information about interior spaces and facilities includes rules of conduct, occupant load, and similar signs. Signs providing direction to rooms or spaces include those that identify egress routes.

216.4 Means of Egress. Signs for means of egress shall comply with 216.4.

216.4.1 Exit Doors. Doors at exit passageways, exit discharge, and exit stairways shall be identified by tactile signs complying with 703.1, 703.2, and 703.5.

Advisory 216.4.1 Exit Doors. An exit passageway is a horizontal exit component that is separated from the interior spaces of the building by fire-resistance-rated construction and that leads to the exit discharge or public way. The exit discharge is that portion of an egress system between the termination of an exit and a public way.

216.4.2 Areas of Refuge. Signs required by section 1003.2.13.5.4 of the International Building Code (2000 edition) or section 1007.6.4 of the International Building Code (2003 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1) to provide instructions in areas of refuge shall comply with 703.5.

216.4.3 Directional Signs. Signs required by section 1003.2.13.6 of the International Building Code (2000 edition) or section 1007.7 of the International Building Code (2003 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1) to provide directions to accessible means of egress shall comply with 703.5.

216.5 Parking. Parking spaces complying with 502 shall be identified by signs complying with 502.6.

1. Where a total of four or fewer parking spaces, including accessible parking spaces, are provided on a site, identification of accessible parking spaces shall not be required. 2. In residential facilities, where parking spaces are assigned to specific residential dwelling units,

identification of accessible parking spaces shall not be required.

provided at entrances that do not comply with 404.

216.6 Entrances. Where not all entrances comply with 404, entrances complying with 404 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1. Directional signs complying with 703.5 that indicate the location of the nearest entrance complying with 404 shall be

Advisory 216.6 Entrances. Where a directional sign is required, it should be located to minimize backtracking. In some cases, this could mean locating a sign at the beginning of a route, not just at the inaccessible entrances to a building.

216.7 Elevators. Where existing elevators do not comply with 407, elevators complying with 407 shall be clearly identified with the International Symbol of Accessibility complying with 703.7.2.1.

216.8 Toilet Rooms and Bathing Rooms. Where existing toilet rooms or bathing rooms do not complete. with 603, directional signs indicating the location of the nearest toilet room or bathing room complying with 603 within the facility shall be provided. Signs shall comply with 703.5 and shall include the International Symbol of Accessibility complying with 703.7.2.1. Where existing toilet rooms or bathing rooms do not comply with 603, the toilet rooms or bathing rooms complying with 603 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1. Where clustered single user toilet rooms or bathing facilities are permitted to use exceptions to 213.2, toilet rooms or bathing facilities complying with 603 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1 unless all toilet rooms and bathing facilities comply with 603.

216.9 TTYs. Identification and directional signs for public TTYs shall be provided in accordance with

216.9.1 Identification Signs. Public TTYs shall be identified by the International Symbol of TTY complying with 703.7.2.2.

216.9.2 Directional Signs. Directional signs indicating the location of the nearest public TTY shall be provided at all banks of public pay telephones not containing a public TTY. In addition, where signs provide direction to public pay telephones, they shall also provide direction to public TTYs. Directional signs shall comply with 703.5 and shall include the International Symbol of TTY complying with

216.10 Assistive Listening Systems. Each assembly area required by 219 to provide assistive listening systems shall provide signs informing patrons of the availability of the assistive listening system. Assistive listening signs shall comply with 703.5 and shall include the International Symbol of Access for Hearing Loss complying with 703.7.2.4.

EXCEPTION: Where ticket offices or windows are provided, signs shall not be required at each assembly area provided that signs are displayed at each ticket office or window informing patrons of the availability of assistive listening systems.

216.11 Check-Out Aisles. Where more than one check-out aisle is provided, check-out aisles complying with 904.3 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1. Where check-out aisles are identified by numbers, letters, or functions, signs identifying check-out aisles complying with 904.3 shall be located in the same location as the check-out aisle

EXCEPTION: Where all check-out aisles serving a single function comply with 904.3, signs complying with 703.7.2.1 shall not be required.

216.12 Amusement Rides. Signs identifying the type of access provided on amusement rides shall be provided at entries to queues and waiting lines. In addition, where accessible unload areas also serve as accessible load areas, signs indicating the location of the accessible load and unload areas shall be provided at entries to queues and waiting lines.

Advisory 216.12 Amusement Rides. Amusement rides designed primarily for children, amusement rides that are controlled or operated by the rider, and amusement rides without seats, are not required to provide wheelchair spaces, transfer seats, or transfer systems, and need not meet the sign requirements in 216.12. The load and unload areas of these rides must, however, be on an accessible route and must provide turning space.

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

Advisory 703.2 Raised Characters. Signs that are designed to be read by touch should not have

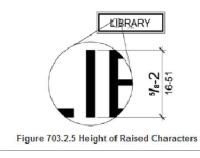
703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background. 703.2.2 Case. Characters shall be uppercase.

decorative, or of other unusual forms. 703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

EXCEPTION: Where separate raised and visual characters with the same information are provided, raised character height shall be permitted to be 1/2 inch (13 mm) minimum.



703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm)

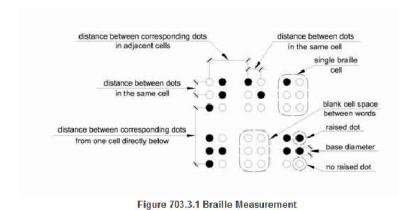
4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm)

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and

Measurement Range	Minimum in Inches to Maximum in Inches
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)
Distance between two dots in the same cell - Measured center to center.	0.090 (2.3 mm) to 0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells - Measured center to center.	0.241 (6.1 mm) to 0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below - Measured center to center.	0.395 (10 mm) to 0.400 (10.2 mm)



703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative

EXCEPTION: Braille provided on elevator car controls shall be separated 3/16 inch (4.8 mm) minimum and shall be located either directly below or adjacent to the corresponding raised

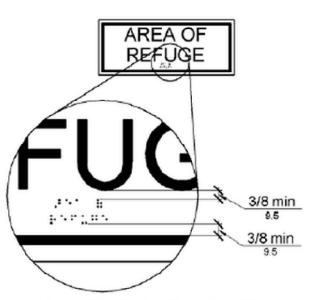


Figure 703.3.2 Position of Braille

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

EXCEPTION: Tactile characters for elevator car controls shall not be required to comply with 703.4.1.

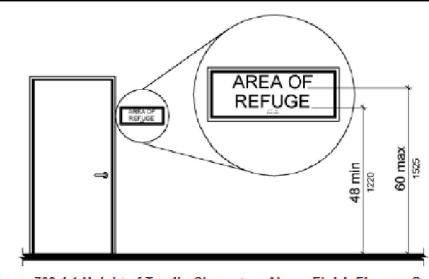


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

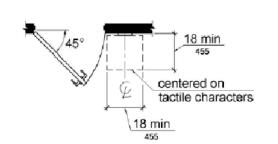


Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

EXCEPTION: Where visual characters comply with 703.2 and are accompanied by braille complying with 703.3, they shall not be required to comply with 703.5.2 through 703.5.9.

703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

Advisory 703.5.1 Finish and Contrast. Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and its background colors and textures.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase

Table 703.5.5 Visual Character Height

Height to Finish Floor or Ground From Baseline of Character	Horizontal Viewing Distance	Minimum Character Height			
40 inches (1015 mm) to less than or equal to 70 inches (1780 mm)	less than 72 inches (1830 mm)	5/8 inch (16 mm)			
40 inches (1015 mm) to less than or equal to 70 inches (1780 mm)		5/8 inch (16 mm), plus 1/8 inch (3.2 mm) per foot (305 mm) of viewing distance above 72 inches (1830 mm)			
	less than 180 inches (4570 mm)	2 inches (51 mm)			
Greater than 70 inches (1780 mm) to less than or equal to 120 inches (3050 mm)	180 inches (4570 mm) and greater	2 inches (51 mm), plus 1/8 inch (3.2 mm) per foot (305 mm) of viewing distance above 180 inches (4570 mm)			
greater than 120 inches (3050 mm)	less than 21 feet (6400 mm)	3 inches (75 mm)			
greater than 120 inches (3050 mm)		3 inches (75 mm), plus 1/8 inch (3.2 mm) per foot (305 mm) of viewing distance above 21 feet (6400 mm)			

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

EXCEPTION: Visual characters indicating elevator car controls shall not be required to comply with

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

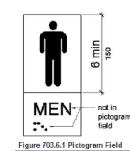
703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictograms. Pictograms shall comply with 703.6.

percent minimum and 35 percent maximum of character height.

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.



703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

Advisory 703.6.2 Finish and Contrast. Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and background colors and textures.

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

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703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

Advisory 703.7.1 Finish and Contrast. Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and background colors and textures.

703.7.2 Symbols.

703.7.2.1 International Symbol of Accessibility. The International Symbol of Accessibility shall comply with Figure 703.7.2.1.



703.7.2.2 International Symbol of TTY. The International Symbol of TTY shall comply with Figure 703.7.2.2.



703.7.2.3 Volume Control Telephones. Telephones with a volume control shall be identified by a pictogram of a telephone handset with radiating sound waves on a square field such as shown in



703.7.2.4 Assistive Listening Systems. Assistive listening systems shall be identified by the International Symbol of Access for Hearing Loss complying with Figure 703.7.2.4.



Figure 703.7.2.4 International Symbol of Access for Hearing Loss

803.1 General. Dressing, fitting, and locker rooms shall comply with 803.

803 DRESSING, FITTING, AND LOCKER ROOMS

Advisory 803.1 General. Partitions and doors should be designed to ensure people using accessible dressing and fitting rooms privacy equivalent to that afforded other users of the facility. Section 903.5 requires dressing room bench seats to be installed so that they are at the same height as a typical wheelchair seat, 17 inches (430 mm) to 19 inches (485 mm). However, wheelchair seats can be lower than dressing room benches for people of short stature or children using wheelchairs.

803.2 Turning Space. Turning space complying with 304 shall be provided within the room.

803.3 Door Swing. Doors shall not swing into the room unless a clear floor or ground space complying with 305.3 is provided beyond the arc of the door swing.

803.4 Benches. A bench complying with 903 shall be provided within the room.

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

902 DINING SURFACES AND WORK SURFACES

902.1 General. Dining surfaces and work surfaces shall comply with 902.2 and 902.3.

EXCEPTION: Dining surfaces and work surfaces for children's use shall be permitted to comply with

Advisory 902.1 General. Dining surfaces include, but are not limited to, bars, tables, lunch counters, and booths. Examples of work surfaces include writing surfaces, study carrels, student laboratory stations, baby changing and other tables or fixtures for personal grooming, coupon counters, and where covered by the ABA scoping provisions, employee work stations.

902.2 Clear Floor or Ground Space. A clear floor space complying with 305 positioned for a forward approach shall be provided. Knee and toe clearance complying with 306 shall be provided.

902.3 Height. The tops of dining surfaces and work surfaces shall be 28 inches (710 mm) minimum and 34 inches (865 mm) maximum above the finish floor or ground.

902.4 Dining Surfaces and Work Surfaces for Children's Use. Accessible dining surfaces and work surfaces for children's use shall comply with 902.4.

EXCEPTION: Dining surfaces and work surfaces that are used primarily by children 5 years and younger shall not be required to comply with 902.4 where a clear floor or ground space complying with 305 positioned for a parallel approach is provided.

902.4.1 Clear Floor or Ground Space. A clear floor space complying with 305 positioned for forward approach shall be provided. Knee and toe clearance complying with 306 shall be provided, except that knee clearance 24 inches (610 mm) minimum above the finish floor or ground shall be permitted.

902.4.2 Height. The tops of tables and counters shall be 26 inches (660 mm) minimum and 30 inches (760 mm) maximum above the finish floor or ground.

903 BENCHES

903.1 General. Benches shall comply with 903.

903.2 Clear Floor or Ground Space. Clear floor or ground space complying with 305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the

903.3 Size. Benches shall have seats that are 42 inches (1065 mm) long minimum and 20 inches (510 mm) deep minimum and 24 inches (610 mm) deep maximum.

903.4 Back Support. The bench shall provide for back support or shall be affixed to a wall. Back support shall be 42 inches (1065 mm) long minimum and shall extend from a point 2 inches (51 mm) maximum above the seat surface to a point 18 inches (455 mm) minimum above the seat surface. Back support shall be 2 1/2 inches (64 mm) maximum from the rear edge of the seat measured horizontally.

Advisory 903.4 Back Support. To assist in transferring to the bench, consider providing grab bars on a wall adjacent to the bench, but not on the seat back. If provided, grab bars cannot obstruct transfer to the bench.

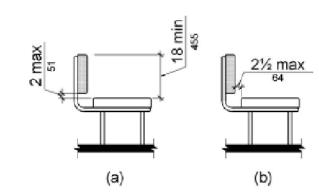


Figure 903.4 Bench Back Support

903.5 Height. The top of the bench seat surface shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the finish floor or ground.

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

903.7 Wet Locations. Where installed in wet locations, the surface of the seat shall be slip resistant

904 CHECK-OUT AISLES AND SALES AND SERVICE COUNTERS

904.1 General. Check-out aisles and sales and service counters shall comply with the applicable

904.2 Approach. All portions of counters required to comply with 904 shall be located adjacent to a walking surface complying with 403.

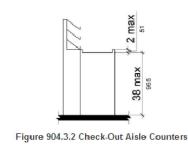
Advisory 904.2 Approach. If a cash register is provided at the sales or service counter, locate the accessible counter close to the cash register so that a person using a wheelchair is visible to sales or service personnel and to minimize the reach for a person with a disability.

904.3 Check-Out Aisles. Check-out aisles shall comply with 904.3.

904.3.1 Aisle. Aisles shall comply with 403.

and shall not accumulate water.

904.3.2 Counter. The counter surface height shall be 38 inches (965 mm) maximum above the finish floor or ground. The top of the counter edge protection shall be 2 inches (51 mm) maximum above the top of the counter surface on the aisle side of the check-out counter.



904.3.3 Check Writing Surfaces. Where provided, check writing surfaces shall comply with 902.3.

904.4 Sales and Service Counters. Sales counters and service counters shall comply with 904.4.1 or 904.4.2. The accessible portion of the counter top shall extend the same depth as the sales or service counter top.

EXCEPTION: In alterations, when the provision of a counter complying with 904.4 would result in a reduction of the number of existing counters at work stations or a reduction of the number of existing mail boxes, the counter shall be permitted to have a portion which is 24 inches (610 mm) long minimum complying with 904.4.1 provided that the required clear floor or ground space is centered on the accessible length of the counter.

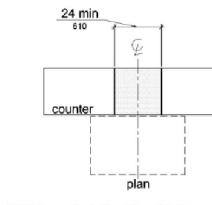


Figure 904.4 (Exception) Alteration of Sales and Service Counters

904.4.1 Parallel Approach. A portion of the counter surface that is 36 inches (915 mm) long minimum and 36 inches (915 mm) high maximum above the finish floor shall be provided. A clear floor or ground space complying with 305 shall be positioned for a parallel approach adjacent to the 36 inch

EXCEPTION: Where the provided counter surface is less than 36 inches (915 mm) long, the entire counter surface shall be 36 inches (915 mm) high maximum above the finish floor.

904.4.2 Forward Approach. A portion of the counter surface that is 30 inches (760 mm) long minimum and 36 inches (915 mm) high maximum shall be provided. Knee and toe space complying with 306 shall be provided under the counter. A clear floor or ground space complying with 305 shall be positioned for a forward approach to the counter.

904.5 Food Service Lines. Counters in food service lines shall comply with 904.5.

handset devices, if provided, shall comply with 704.3.

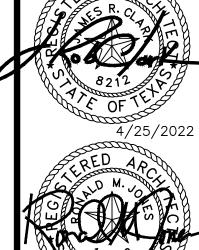
904.5.1 Self-Service Shelves and Dispensing Devices. Self-service shelves and dispensing devices for tableware, dishware, condiments, food and beverages shall comply with 308.

904.5.2 Tray Slides. The tops of tray slides shall be 28 inches (710 mm) minimum and 34 inches (865 mm) maximum above the finish floor or ground. 904.6 Security Glazing. Where counters or teller windows have security glazing to separate

personnel from the public, a method to facilitate voice communication shall be provided. Telephone

Advisory 904.6 Security Glazing. Assistive listening devices complying with 706 can facilitate voice communication at counters or teller windows where there is security glazing which promotes distortion in audible information. Where assistive listening devices are installed, place signs complying with 703.7.2.4 to identify those facilities which are so equipped. Other voice communication methods include, but are not limited to, grilles, slats, talk-through baffles, intercoms, or telephone handset devices.





INTRUSION ER $\overline{\mathbf{\alpha}}$ \circ R AND ATHWA

ISSUED FOR SCHEMATIC DESIGN X DATE: 1/27/2022 DESIGN DEVELOPMENT X DATE: 3/17/2022

BIDS & CONSTRUCTION X DATE: 4/15/2022 REVISION:

DATE:___ REVISION: DATE:_

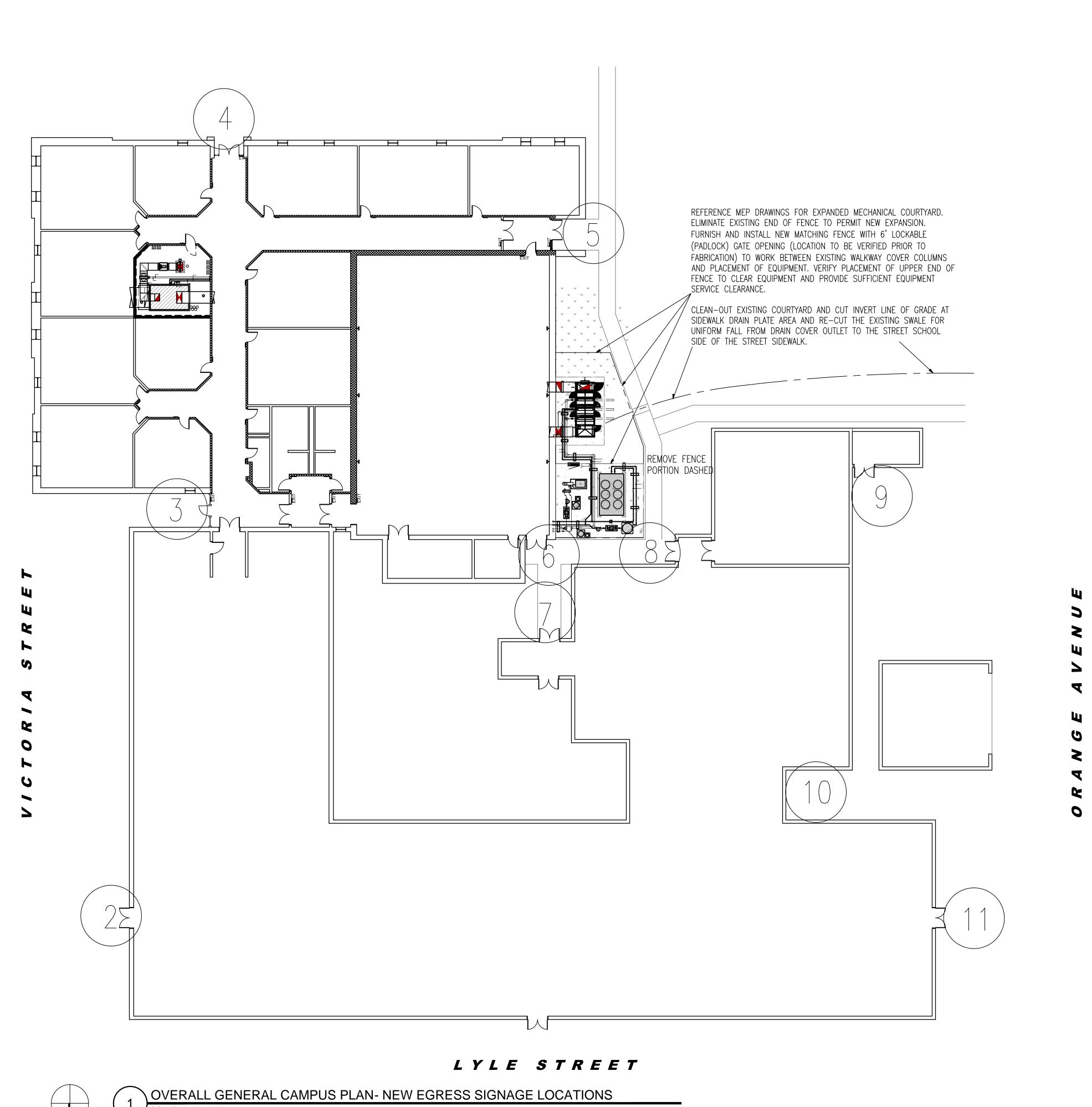
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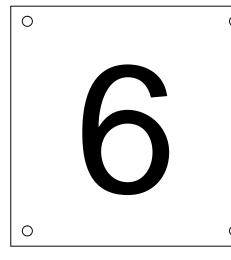
TEXAS ACCESSIBILITY STANDARDS

DRAWINGS SHEET TITLE

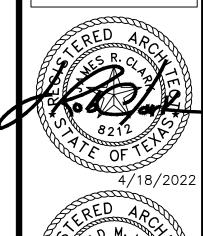
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FURNISH AND INSTALL TEN (10) 12" X 12" EMERGENCY EXIT IDENTIFICATION DOOR METAL SIGNAGE UNITS WITH NUMBERS 2 THROUGH 11 TO BE INSTALLED ON THE UPPER CENTER OF EACH SIDE (INSIDE/OUSIDE FACE OF DESIGNATED PERIMETER EXIT DOORS AND MECHANICALLY AND GLUE FASTENED). IF PAIRS, INSTALL ON ONE OF THE DOORS. ADDITIONALLY, FURNISH AND INSTALL THE MANDATORY ENGRAVED MICARTA EXIT SIGN WITH BRAILLE TEXT INSTALLED AT STANDARD SIGN HEIGHT PER SIGNAGE DRAWING REQUIREMENTS AT EACH OF OF THESE 10 DOORS MOUNTED ONE SIDE OF THE HALLWAY (VERIFY WITH ARCHITECT PRIOR TO INSTALLATION). TEXT MINIMUM 6" HEIGHT AND 1" STROKE WIDTH



LEARNING CENTER WATER INTRUSION AND ROOF REPAIRS

ISSUED FOR SCHEMATIC DESIGN X

DESIGN DEVELOPMENT X DATE: 3/17/2022

BIDS & CONSTRUCTION X

REVISION: DATE:__ REVISION:

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DRAWINGS SHEET TITLE

OVERALL **GENERAL** CAMPUS PLAN

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GENERAL NOTES

- 1. REMOVE EXISTING CORRIDOR WALL CARPET MATERIAL AND $rac{1}{4}$ " WOOD PANELING AND PATCH WALLS SMOOTH WITH ROLLED ORANGE PEEL FINISH, PRIMER AND TWO COATS OF SPECIFIED PAINT. INSTALL NEW 🖁 FIRE CODE GYPSUM BOARD WHERE NO GYPSUM BOARD IS SALVAGEABLE. REPLACE GYPSUM BOARD MATERIAL WHERE FINISH IS DEEMED TO BE NON-REPAIRABLE AND INSTALL NEW 5/8" FIRE RATED GYPSUM BOARD, TAPE, FLOAT AND FINISH PAINT PER SPECIFICATIONS. CUT AND LEAVE EXISTING GYPSUM BOARD BEHIND EXISTING PERIMETER CEILING GRID TO PROTECT GRID.
- 2. PATCH, REPAIR AND APPLY TWO COATS PAINT AS SPECIFIED TO ALL GYPSUM BOARD WALLS THROUGHOUT THIS WING OF THE SCHOOL INCLUDING RESTROOM CEILING OR WALL PORTIONS.
- 3. REMOVE WATER INTRUSION DAMAGED GYPSUM BOARD AT ALL EXTERIOR WALLS. REMOVE EXISTING INSULATION AND REPLACE WITH MATCHING FIBERGLASS INSULATION TO FULL STUD DEPTH. WHERE METAL STUD WALL FRAMING IS DAMAGED FROM WATER INTRUSION, REPLACE WITH NEW REPLACEMENT METAL STUDS AND INSULATION BEFORE PROCEEDING WITH ANY INSULATION OR GYPSUM BOARD INSTALLATION. INSTALL, WHERE MISSING OR DAMAGED, NEW FIBERGLASS INSULATION AGAINST EXISTING METAL ROOF TIGHTLY
- 4. REFERENCE ROOF PLAN AND NOTES FOR REROUTING/REPAIRS TO PVC ROOF DRAIN OUTLETS WRAPPING WITH NEW PIPE INSULATION FROM ROOF DRAIN DOWN THROUGH WALL PENETRATION.
- 5. NOTE: SCHOOL DISTRICT PERSONNEL WILL REMOVE ANY DAMAGED PORTIONS OF EXISTING PLASTIC LAMINATE CASEWORK AND MAKE ANY NEEDED REPAIRS TO CORRECT UNFINISHED ENDS. GENERAL CONTRACTOR MUST PROTECT ALL CASEWORKS FROM DAMAGE FROM PAINT OVER-SPRAY OR FROM SUBCONTRACTORS INSTALLING NEW A/C SYSTEMS AND DUCTWORK THROUGHOUT THE COURSE OF THIS CONSTRUCTION PROJECT.
- 6. ALL EXISTING DOORS AND FRAMES ARE TO REMAIN WITH DOORS CLEANED AND FILLED WITH INTEGRAL COLORED PATCH MATERIALS WHERE DAMAGED. ALL DOOR FRAMES ARE TO BE CLEANED AND PAINTED PER SPECIFICATIONS. ANY DAMAGED DOOR HARDWARE WILL BE REPLACED BY THE SCHOOL DISTRICT WHICH MAY INCLUDE RE-KEYING, IF REQUIRED.
- 7. ALL REMAINING FINISHED FLOORING (EXCLUDING CERAMIC TILE IN RESTROOMS) SHALL BE REMOVED, ALL EXPOSED CONCRETE SURFACES CLEANED AND PROTECTED FROM PAINT OVER-SPRAY, AND NEW LVT FLOOR TILE AND 6" COVED RUBBER BASE INSTALLED PER SHEET F-100 FLOOR FINISH SCHEDULE AND SPECIFICATIONS INCLUDING INSIDE/OUTSIDE CORNER RUBBER BASE COMPONENTS, WITH SPECIFIED ADDITIONAL MATERIALS SUPPLIED TO THE OWNER UPON CLOSING OUT THE PROJECT. IT IS CRITICAL THAT THE FLOORING MATERIALS ARE INSTALLED ONLY AS MUCH MATERIALS AS CAN BE IMMEDIATELY PROOF ROLLED FOR BEST TILE ADHESION TO THE CONCRETE SURFACE AND THEN FINAL ROLLED AS EACH AREA OR ROOM IS FINISHED.
- a. FIELD MAIN TILE: PROVIDE MINIMUM 300 SQUARE FEET UNOPENED BOXES
- b. ACCENT/PATTERN TILE: PROVIDE MINIMUM 150 SQUARE FEET UNOPENED BOXES FOR EACH COLOR OR PATTERN COMPONENT
- 8. WHERE EXISTING EXTERIOR WALL FINISHED INTERIOR GYPSUM BOARD IS BEING REPLACE DUE TO ROOF LEAKS ALONG THE EXTERIOR WALL, UPON COMPLETION OF GYPSUM BOARD INSTALLATION AND FINISH WORK, RE-CAULK EXISTING WINDOW FRAMES TO GYPSUM BOARD TO MATCH EXISTING.
- 9. REFERENCE REFLECTED CEILING PLAN AND MEP DOCUMENTS FOR SCOPE OF REPAIRS AND INTEGRATION OF NEW HVAC SYSTEMS INTO THIS WING; HOWEVER, THE FOLLOWING GENERAL DESCRIPTION SCOPE OUTLINE CONTRACTOR RESPONSIBILITIES IN REGARDS TO CEILING:
- a. EXISTING SUSPENDED 2X2 BLACK CEILING GRID TO REMAIN IN-PLACE WITH CUT-AND-PATCH WITH MATCHING WHERE REMOVING EXISTING ABOVE CEILING UNITS IN CLASSROOMS AND WHERE RUNNING NEW REFRIGERANT LINES AND NEW SUPPLY/RETURN AIR DUCTWORK. NOTE: EXISTING 1 HOUR CORRIDOR WALL TO BE MAINTAINED AS INSTALLED IN THE ORIGINAL CONSTRUCTION SEALED AT
- b. EXISTING SUSPENDED 2X2 BLACK CEILING GRID WHERE WATER DAMAGED ALONG EXTERIOR WALL TO BE REPLACED WITH MATCHING SYSTEM AND SUPPORTED PER MANUFACTURER AND CODE REQUIREMENTS INCLUDING ATTACHMENT OF PERIMETER WALL SUPPORT.
- c. ANY NEW REPLACEMENT CEILING TILES SHALL MATCH THE EXISTING AND, IF NOT POSSIBLE TO FULLY MATCH, CONTRACTOR WILL WORK WITH OWNER AND ARCHITECT TO SHIFT EXISTING CEILING TILES FROM HALLWAY OR CLASSROOMS SO THAT NEW CEILING MATERIALS ARE INSTALLED TO FNISH-OUT A CLASSROOM OR CLASSROOMS AS MIGHT BE REQUIRED. PROVIDE A MINIMUM OF SIX (6) BOXES OF NON-OPENED REPLACEMENT CEILING TILE MATERIALS AT THE END OF THE PROJECT.
- 10. ALL EXISTING TDLR COMPLIANT SIGNAGE TO BE REPLACED. CONTRACTOR REFERENCE DRAWINGS FOR NEW CLASSROOM, RESTROOM, JANITOR AND EXIT SIGNAGE UNITS TO BE FURNISHED AND INSTALLED PER SIGNAGE DRAWING AND TDLR STANDARDS.
- 11. ONE EXISTING SMALL CLASSROOM (#11) HAS BEEN DESIGNATED AND RENAMED "NEW MECHANICAL ROOM" TO HOUSE ALL AIR HANDLERS, CONTROLS, ETC. AS DESCRIBED IN THE HVAC DOCUMENTS. ALL EXISTING WALLS OF THIS ROOM MUST BE EXTENDED TO THE BOTTOM OF THE ROOF DECK AND SEALED OFF TO THE ROOF DECK FOR A ONE HOUR SEPARATION SUCH THAT THE EXISTING CEILING CAN BE REMOVED AND ALL NEW DUCTWORK AND REFRIGERANT LINES CAN BE ROUTED THROUGH THIS ROOM. ALL WALLS OF THIS ROOM ARE TO BE PAINTED WITH ONE COAT OF PAINT AS SPECIFIED AND EXISTING CONCRETE FLOOR LEFT EXPOSED BUT SEALED WITH ONE COST OF CONCRETE SEALER. APPLY ONE ADDITIONAL LAYER \(\frac{5}{8} \) GYPSUM BOARD OVER 1" TECTUM BOARD TO THREE SHARED CLASSROOM WALLS AND CAULKING ALL FLOOR, WALL AND ROOF DECK INTERSECTIONS COMPLETELY TO REDUCE SOUND PENETRATION.
- 12. VERIFY CEILING REPAIRS IN RESTROOMS RESULTING FROM CHANGES TO HVAC SUPPLY AND RETURN DUCTS AND GRILLS. PAINT ALL RESTROOM CEILINGS TWO COATS PAINT AS SCHEDULED.
- 13. NOTE: THE OWNER, UNDER A SEPARATE CONTRACT WILL CHANGE-OUT ALL EXISTING FLUORESCENT LIGHT FIXTURES WITH NEW LAY-IN LED TO MATCH THE STANDARD USED THROUGHOUT THE DISTRICT.
- 14. PATCH AND FLOAT-OUT GYPSUM BOARD WALLS BEFORE STARTING TO APPLY NEW PAINT APPLICATIONS WHERE OWNER HAS REMOVED PRIOR TEMPORARY WALLS.
- 15. IN THE NEW MECHANICAL ROOM, PROVIDE INDUSTRIAL METAL SHELVING WIDTH AND HEIGHT AS NECESSARY TO STORE REQUIRED
- 16. IN NEW MECHANICAL ROOM, EXTEND ADJACENT CLASSROOM METAL STUD AND $\frac{5}{8}$ " GYPSUM BOARD EACH SIDE WALLS TO BOTTOM OF DECK AND SEAL FOR 1 HOUR RATING.
- 17. FURNISH AND INSTALL TEN (10) 12" X 12" EMERGENCY EXIT IDENTIFICATION DOOR METAL SIGNAGE UNITS WITH NUMBERS 2 THROUGH 11 TO BE INSTALLED ON THE UPPER CENTER OF EACH SIDE (INSIDE/OUTSIDE FACE OF DESIGNATED PERIMETER EXIT DOORS AND MECHANICALLY AND GLUE FASTENED). IF PAIRS, INSTALL ON ONE OF THE DOORS. ADDITIONALLY, FURNISH AND INSTALL THE REQUIRED ENGRAVED MICARTA
- DOORS MOUNTED ONE SIDE OF THE HALLWAY (VERIFY WITH ARCHITECT PRIOR TO INSTALLATION). 18. GENERAL CONTRACTOR TO COORDINATE DRAINING WORK IN THE EXISTING AND EXPANDED MECHANICAL EQUIPMENT COURTYARD INCLUDING CLEANING DEBRIS AND LOWERING THE INVERT AT THE SIDEWALK DRAIN PLATE, AND RECUT A UNIFORM SLOPE SWALE FROM THIS SIDEWALK DRAIN OUTLET POINT TO THE STREET SIDEWALK TO ASSURE THAT THE MECHANICAL COURTYARD AREA SURROUNDED BY BUILDING
- 19. REMOVE EXISTING RATED CORRIDOR DOOR AND FRAME AS REQUIRED FOR THE INSTALLATION OF NEW AIR HANDLER EQUIPMENT. RE-INSTALL EXISTING DOOR AND FRAME REVERSING THE SWING TO THE CORRIDOR SIDE FOR PROPER CLEARANCES IN THE NEW MECHANICAL
- 20. REFERENCE MEP DRAWINGS FOR SAW CUTTING OF THE EXISTING CONCRETE SLAB FOR INSTALLATION OF A NEW DRAIN SYSTEM FOR THE NEW MECHANICAL EQUIPMENT TAPPED INTO THE EXISTING MAJOR DRAIN WHERE INDICATED AND LOCATION CONFIRMED BY CONTRACTOR PRIOR TO FULLY CUTTING THE SLAB. CONTRACTOR TO DOWEL INTO THE EXISTING SLAB ALONG THE SAW-CUT, ADD NEW REINFORCING, PATCH VAPOR UNDERLAY AND POUR NEW CONCRETE FINISHED TO ALIGN WITH EXISTING CONCRETE SURFACE. NOTE: DO NOT INSTALL LVT FLOORING THIS AREA UNTIL MOISTURE LEVEL IS ACCEPTABLE BY FLOORING PRODUCT MANUFACTURER GUIDELINES.
- 21. GENERAL CONTRACTOR TO ASSIST MECHANICAL CONTRACTOR WHERE REMOVING EXISTING PIPING AND DUCTWORK FROM EXTERIOR OF BUILDING AND PREPARING TO INSTALL NEW OPENING FOR PIPING AND DUCTWORK FOR AIR-TIGHT AND MOISTURE TIGHT NO-MAINTENANCE INSTALLATION AT THE EXISTING GYMNASIUM EXTERIOR WALL.

NTER WATER INTRUSION REPAIRS $\overline{\mathbf{O}}$ ARNING CAND ROC

ISSUED FOR SCHEMATIC DESIGN X DATE: 1/27/2022

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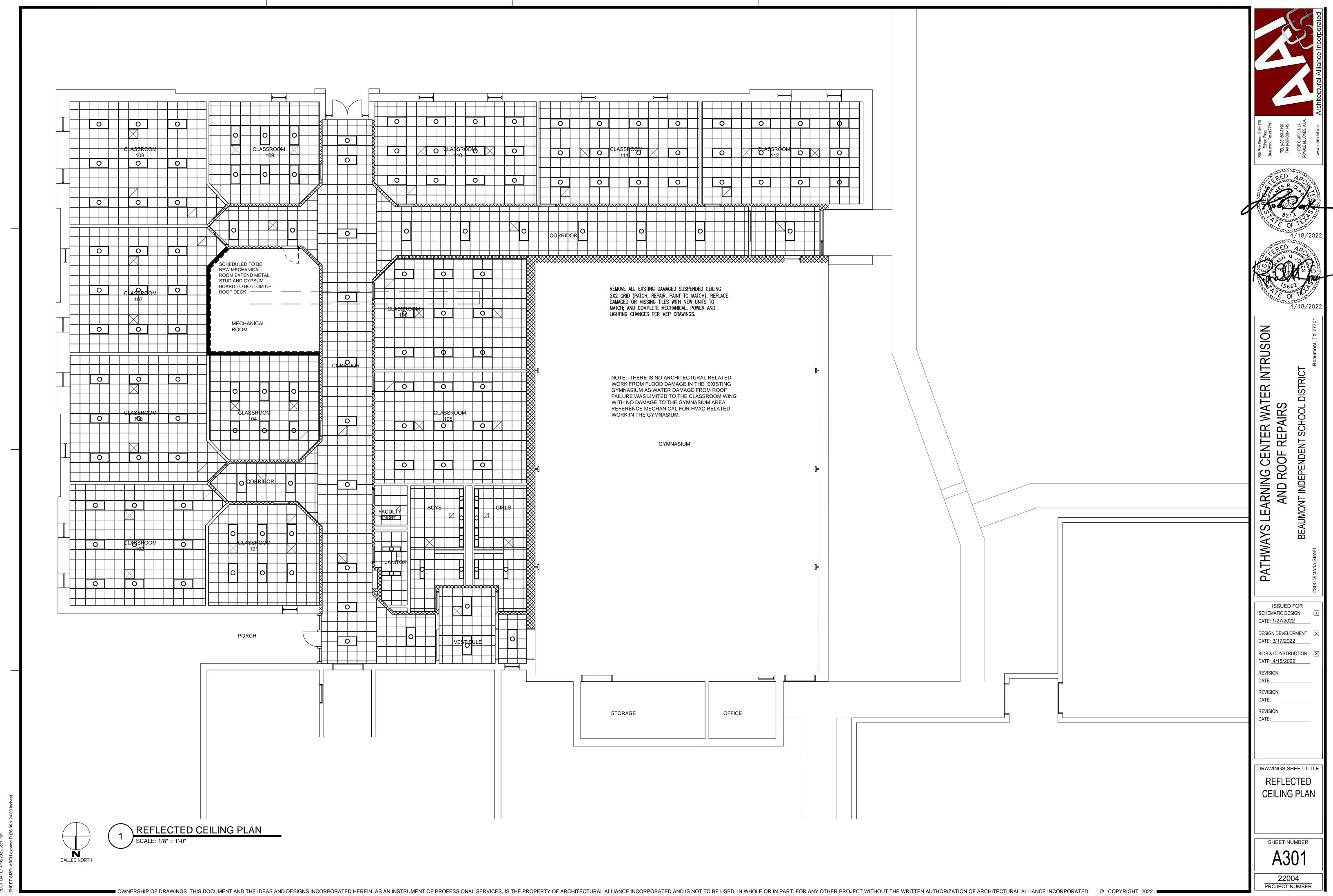
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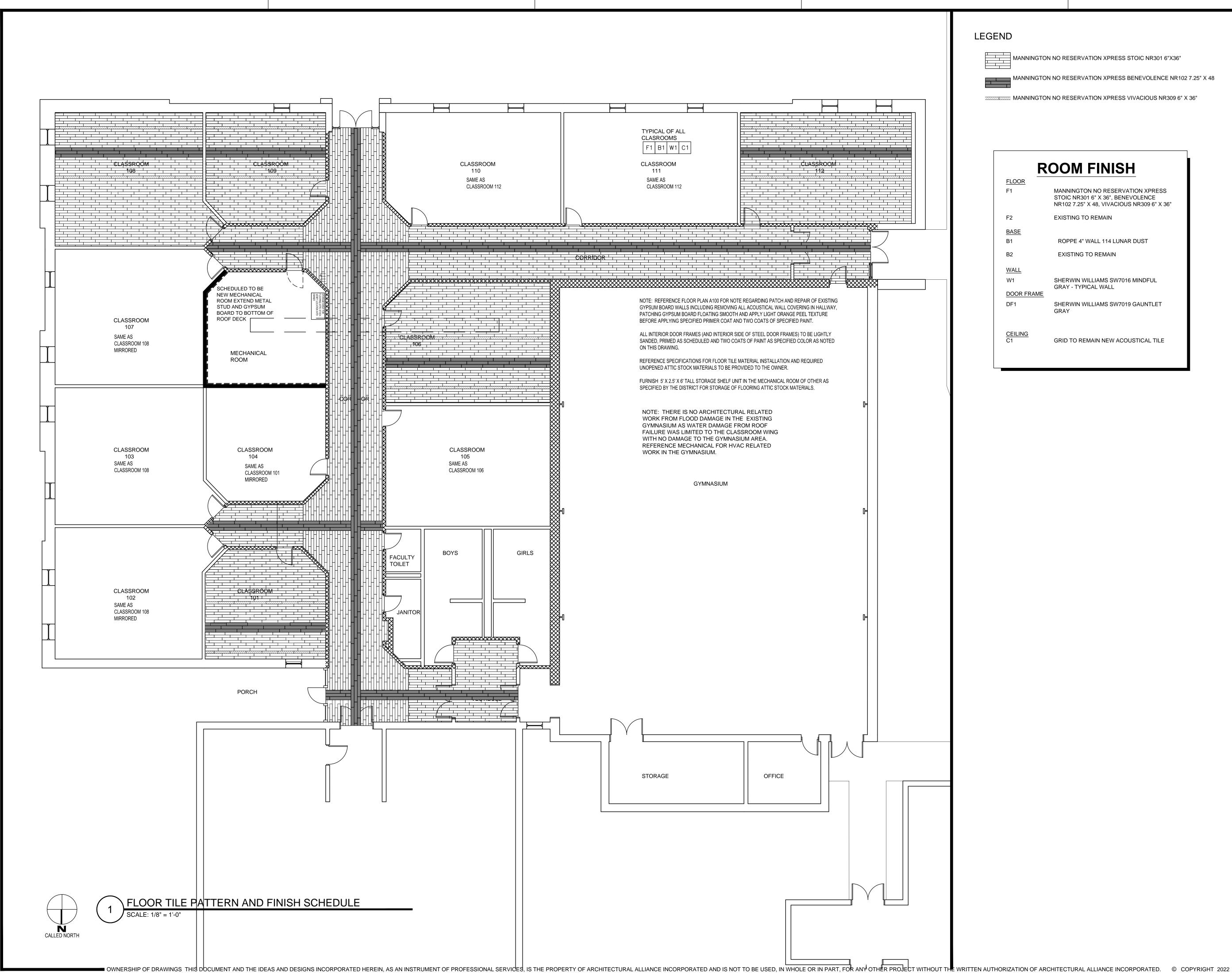
FLOOR PLAN

SHEET NUMBER



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PLOT: LEO TAN



MANNINGTON NO RESERVATION XPRESS STOIC NR301 6"X36"

MANNINGTON NO RESERVATION XPRESS BENEVOLENCE NR102 7.25" X 48

MANNINGTON NO RESERVATION XPRESS VIVACIOUS NR309 6" X 36"

ROOM FINISH

MANNINGTON NO RESERVATION XPRESS STOIC NR301 6" X 36", BENEVOLENCE NR102 7.25" X 48, VIVACIOUS NR309 6" X 36"

EXISTING TO REMAIN

GRAY - TYPICAL WALL

<u>BASE</u>

ROPPE 4" WALL 114 LUNAR DUST

EXISTING TO REMAIN

W1

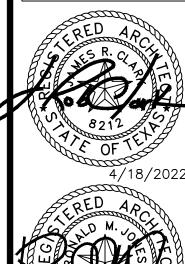
SHERWIN WILLIAMS SW7019 GAUNTLET

GRID TO REMAIN NEW ACOUSTICAL TILE

SHERWIN WILLIAMS SW7016 MINDFUL

DF1

CEILING



CENTER WATER INTRUSION OF REPAIRS DISTRICT PATHWAYS LEARNING CENTAND ROOF F

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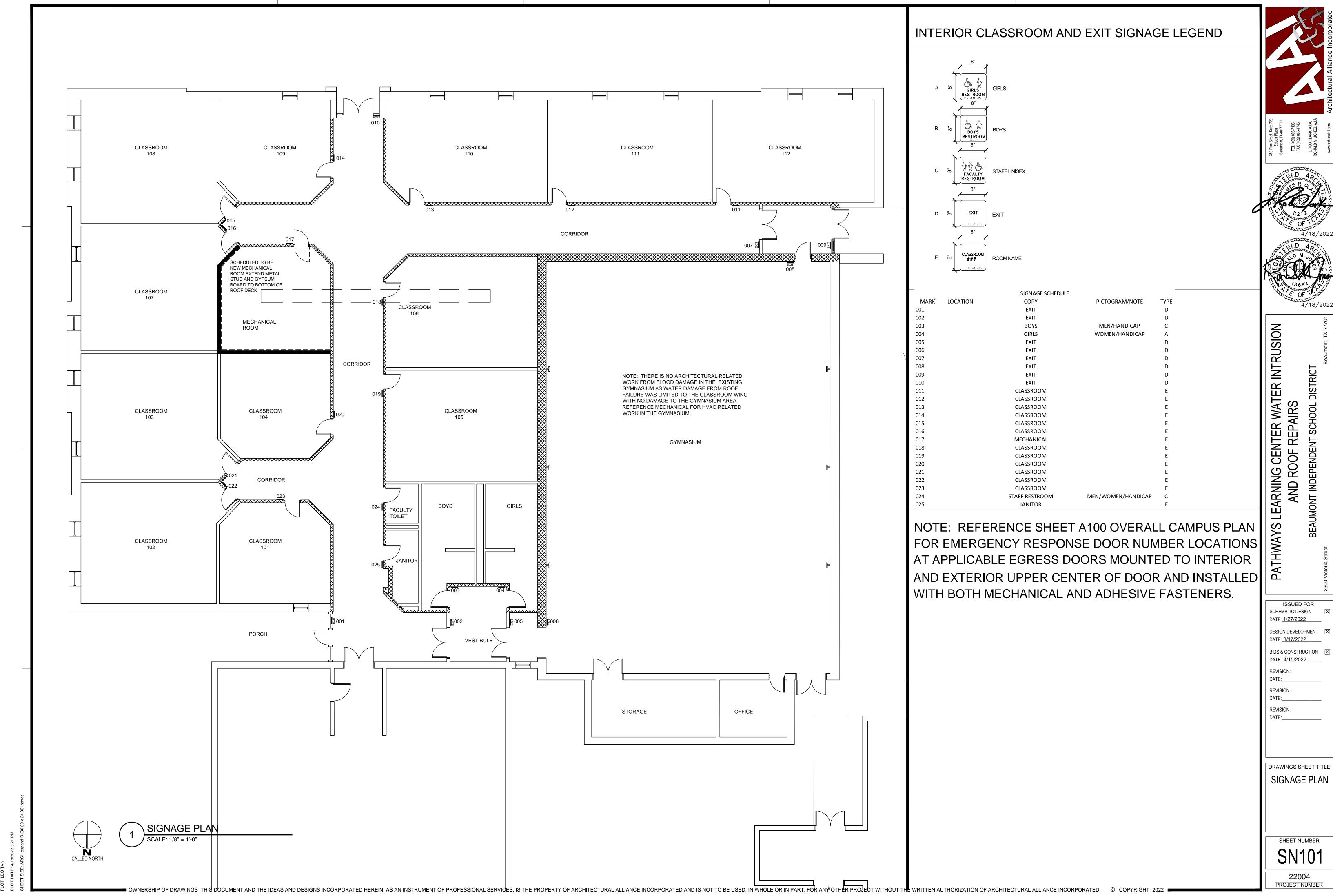
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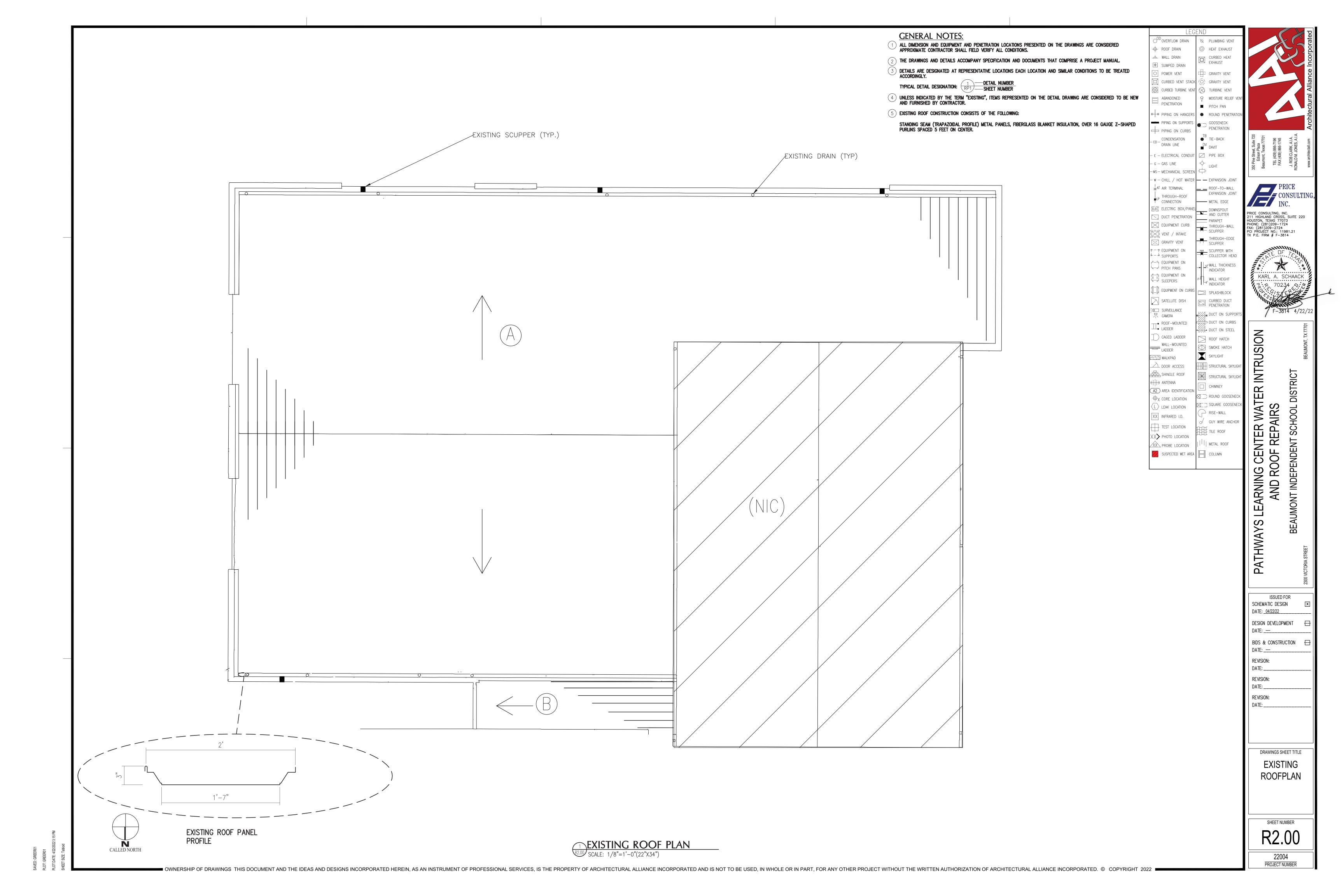
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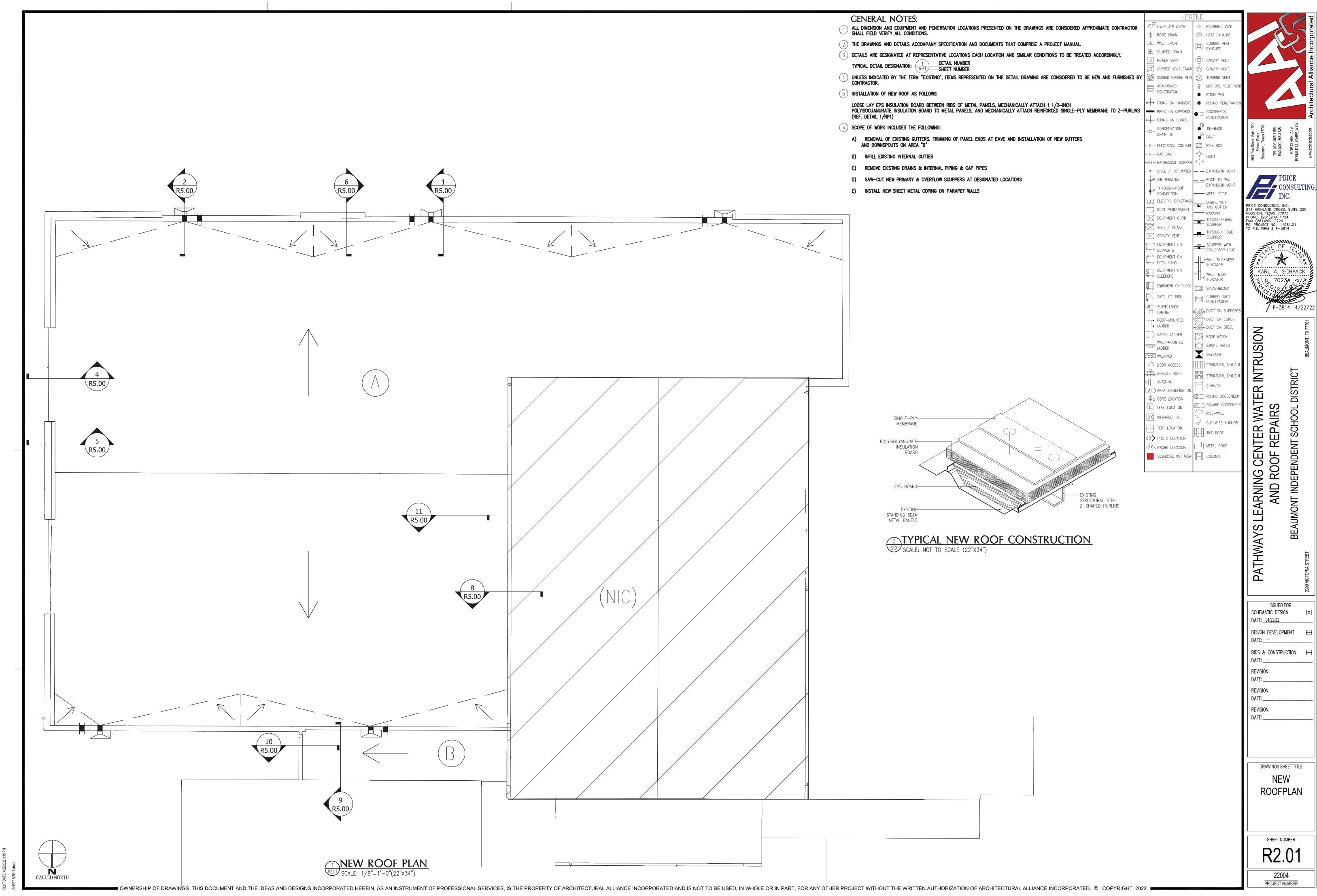
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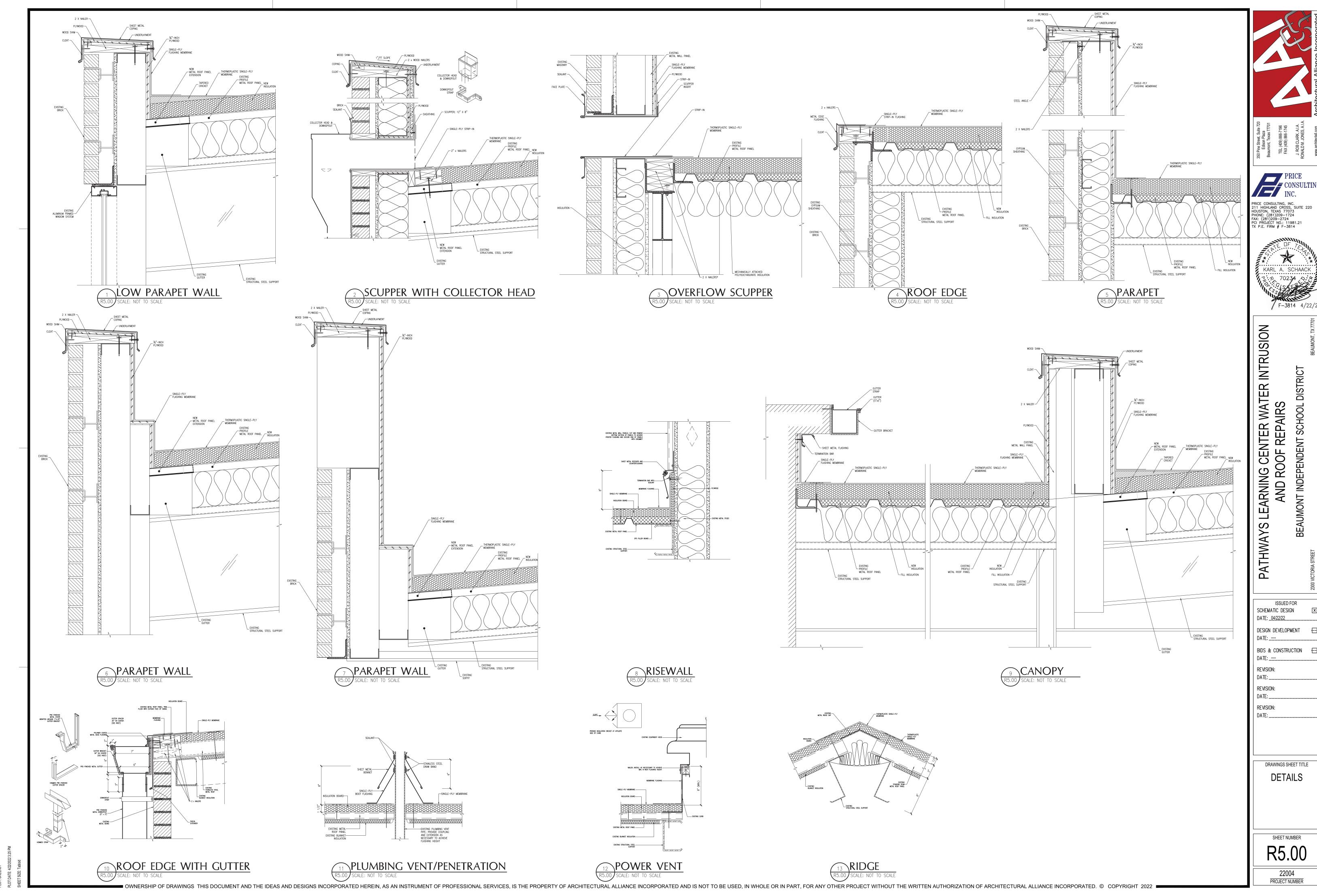
SCHEDULE

22004









GENERAL NOTES

BUILDING CODE

BUILDING CODE USED .

CONCRETE

CONCRETE SHOWN AND CALLED FOR ON S SHEETS SHALL NOT CONTAIN FLY ASH. CONCRETE FOR SLAB SHALL NOT CONTAIN ENTRAINED AIR. COMPRESSIVE STRENGTH OF CONCRETE TESTED AT 28 DAYS SHALL BE AS FOLLOWS:

ALL OTHER CONCRETE · · · · · · · · · · · 3000 P.S.I. (W/C = 0.50 MAX)

THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL CONSTRUCTION JOINTS SHALL BE MADE IN THE CENTER OF SPANS WITH VERTICAL BULKHEADS. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER. ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS REQUIRED. SEE TYPICAL DETAIL

REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE GRADE 60 (#2 AND #3 BARS AND ALL STIRRUPS AND TIES SHALL BE GRADE 40) AND SHALL CONFORM TO THE ASTM SPECIFICATIONS A615. DETAILING OF REINFORCING STEEL SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL. PROVIDE 1-#6 X 4'-0" (zL_) TOP AND BOTTOM IN EXTERIOR FACE OF GRADE BEAMS AT CORNERS.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM SPECIFICATIONS A185 AND DELIVERED TO THE JOB SITE IN FLAT

PROVIDE STANDARD APPROVED BAR CHAIRS WITH ROUND FEET AT 4'-0" MAXIMUM CENTERS EACH WAY FOR ALL TOP REINFORCING FOR SLABS ON GRADE. DEPTH OF CHAIRS SHALL PROVIDE FOR 1" TOP COVER TO REINFORCING FOR SLABS ON GRADE.

LAP CONTINUOUS UNSCHEDULED REINFORCING BARS 40 BAR DIAMETERS AT SPLICES.

MISCELLANEOUS

THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY

DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLING STRUCTURAL MEMBERS.

SUBGRADE | FILL | SITE PREPARATION

VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING BUILDING AT THE JOB SITE.

THE BUILDING AREA SHALL BE STRIPPED OF ALL VEGETATION, TOPSOIL, CONCRETE AND UNDERLYING POOR-QUALITY FILL. ANY ROOTS LARGER THAN ONE-HALF INCH IN DIAMETER SHALL BE GRUBBED. ALL SOFT SPOTS IN THE SUBGRADE SHALL BE EXCAVATED TO FIRM SOIL. THE EXPOSED SUBGRADE SHALL BE STRIPPED TO A DEPTH OF THIRTY SIX (36) INCHES, SCARIFY THE SUBGRADE, AND MOISTURE CONDITIONED TO NOT LESS THAN THE OPTIMUM MOISTURE CONTENT. THE SUBGRADE SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D 698.

A MINIMUM OF THIRTY SIX (36) INCHES OF COMPACTED SELECT FILL SHALL BE PLACED BELOW THE FLOOR SLAB FROM THE PREPARED SUBGRADE TO THE BOTTOM OF THE SLAB. . SELECT FILL MATERIAL SHALL BE EXTENDED 5 FEET BEYOND THE BUILDING PERIMETER INCLUDING THE COURTYARD. SELECT FILL SHALL BE COMPOSED OF A CLEAN, INACTIVE CLAY SOIL (NOT A SILT) WITH A PLASTICITY INDEX BETWEEN 10 AND 20. THE FILL SHALL BE PLACED IN THIN LIFTS NOT EXCEEDING EIGHT INCHES LOOSE MEASURE, MOISTURE CONDITIONED TO ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM STANDARD PROCTOR DENSITY. TOTAL FILL THICKNESS MIGHT EXCEED THE MINIMUM AMOUNT OF FILL DEPENDING ON FINISH FLOOR ELEVATION AND EXISTING GRADES. REFER TO SITE SURVEY AND SITE DRAWINGS.

SOIL BEARING PRESSURE

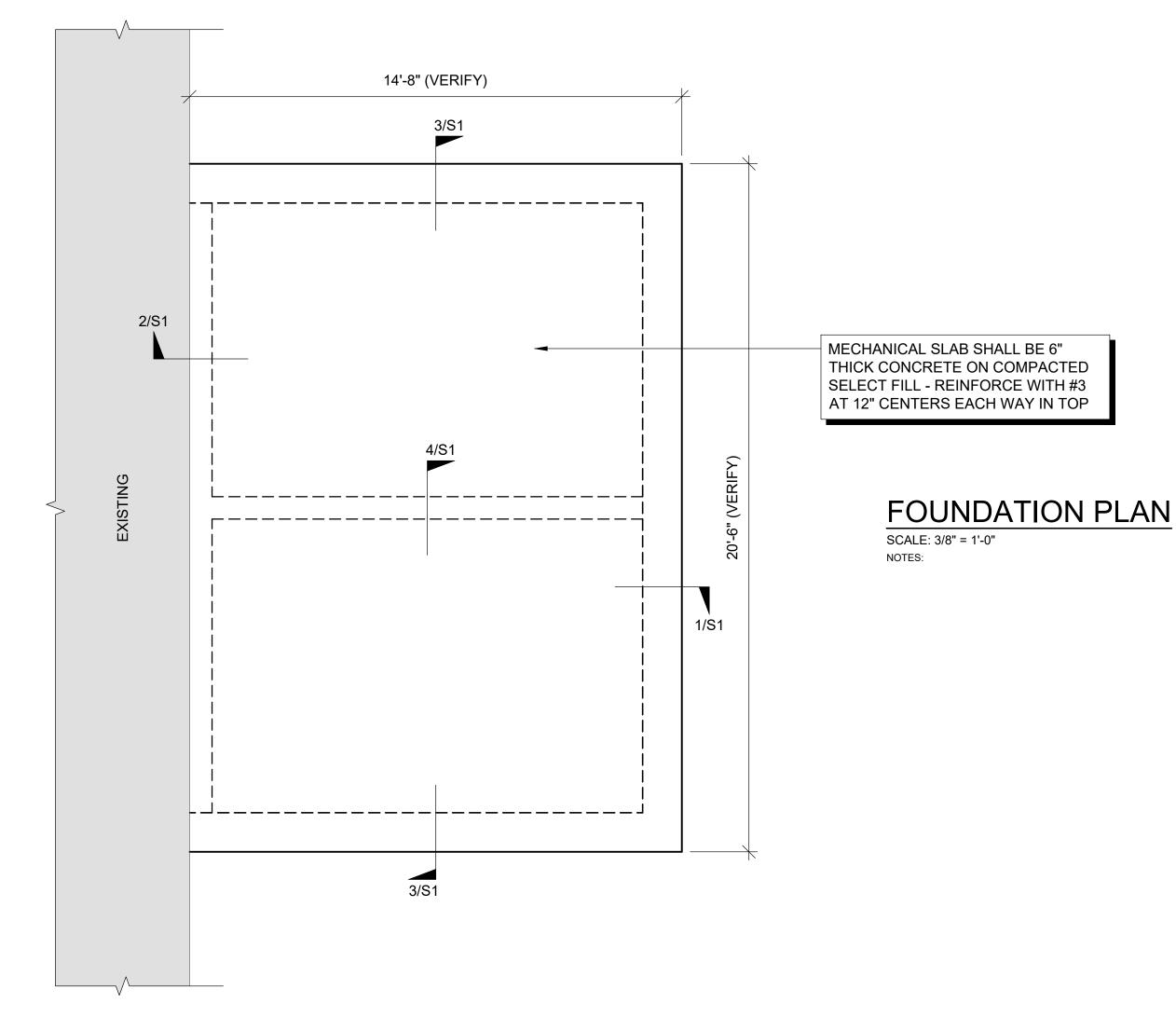
A SOIL BEARING PRESSURE OF 2500 P.S.F. FOR DEAD LOAD PLUS TOTAL LIVE LOAD WAS ASSUMED TO DESIGN THE

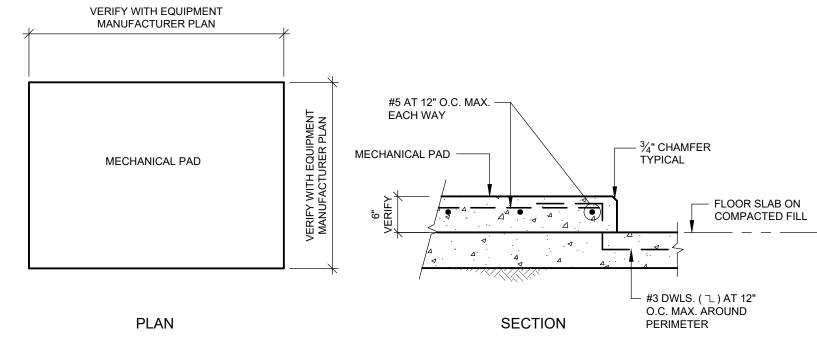
REPRODUCTION NOTE

THE USE OF THESE CONTRACT DRAWINGS IN LIEU OF PREPARATION OF SHOP DRAWINGS CONSTITUTES ACCEPTANCE THAT ALL INFORMATION SHOWN HEREON IS CORRECT, AND CONSTITUTES ACCEPTANCE OF ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO THEIR USE. SHOP DRAWINGS MAY NOT BE PRODUCED BY USING REPRODUCTIONS OF THESE CONTRACT DRAWINGS. ANY SHOP DRAWINGS SUBMITTED FOR APPROVAL, WHICH WERE PRODUCED IN THIS MANNER, WILL BE REJECTED.

USE OF CADD FILES

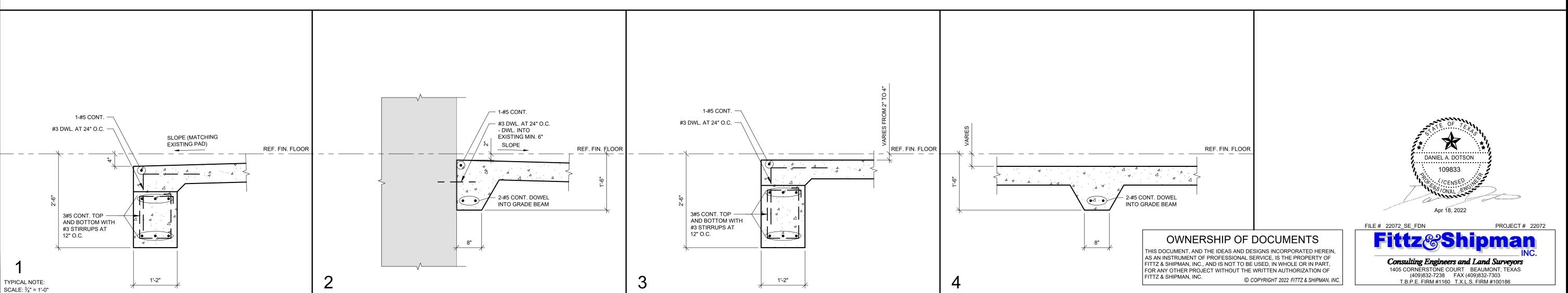
UPON THE SIGNING OF A RELEASE, FITTZ & SHIPMAN, INC. WILL PROVIDE CADD FILES STRIPPED OF TITLE BLOCKS AND SEALS. A FEE WILL BE ACCESSED IN ACCORDANCE WITH THE FOLLOWING FEE SCHEDULE: MINIMUM CHARGE OF \$100 FOR THE FIRST SHEET AND \$50 FOR EACH ADDITIONAL SHEET. SALES TAX WILL BE ADDED TO THE ABOVE FEES UNLESS A SALES TAX EXEMPT CERTIFICATE IS PROVIDED. WHEN PLAN SHEETS ARE PRINTED ON MULTIPLE SHEETS THE FEE WILL BE ACCESSED PER PRINTED SHEET BUT ONE CADD FILE WILL BE PRESENTED.





TYPICAL MECHANICAL HOUSEKEEPING PAD

1. SEE MECHANICAL DRAWINGS FOR NUMBER & LOCATIONS 2. PROVIDE EQUIPMENT ANCHOR BOLTS PER MANUFACTURER'S REQUIREMENTS.



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INTRUSION WATER CENTER OOF REPA EARNING CAND ROC **PATHWAYS**

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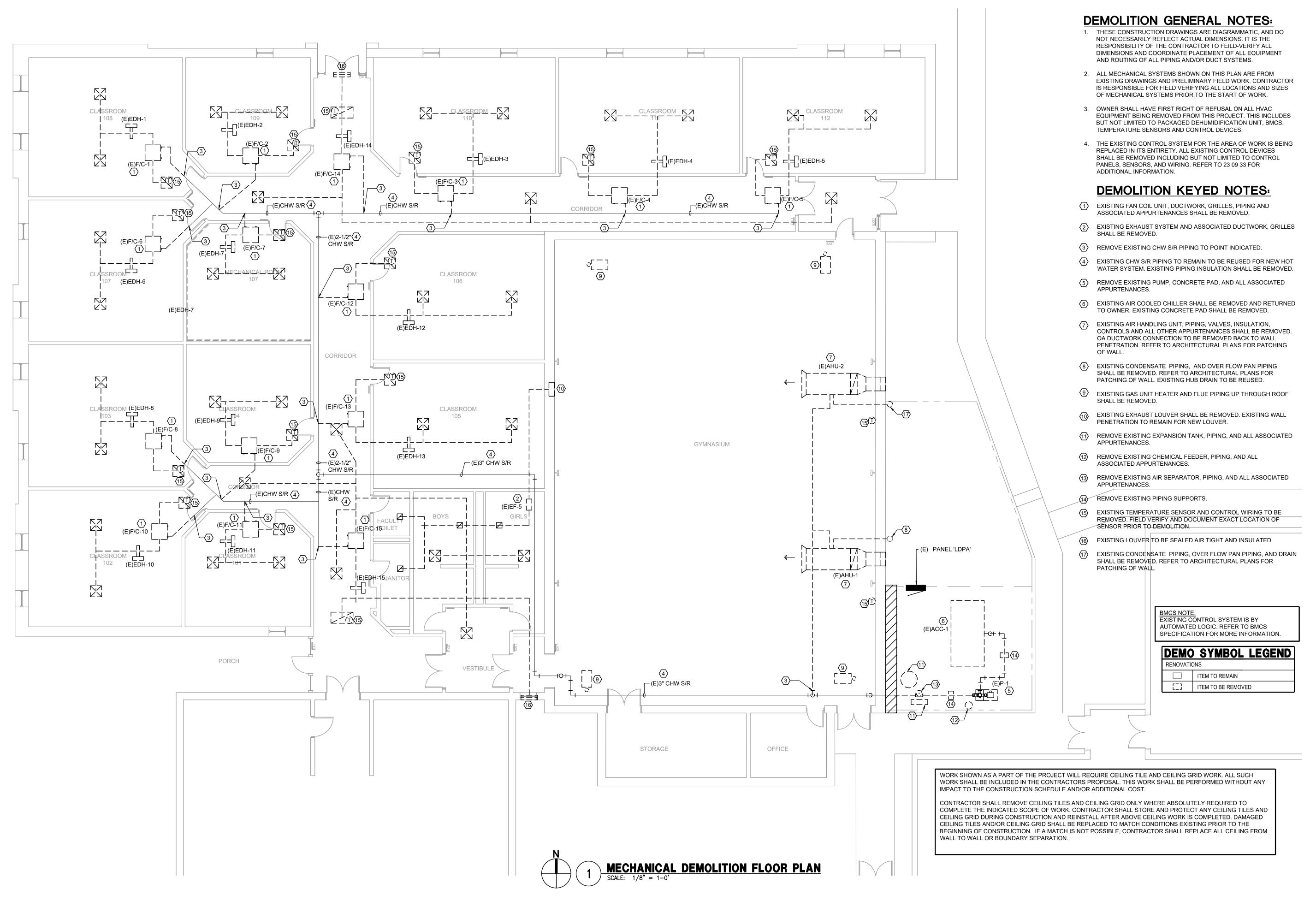
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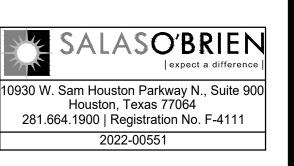
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> DRAWINGS SHEET TITLE **FOUNDATION**

SHEET NUMBER

22004





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J. ROB CLARK, A.I.A.
RONALD M. JONES, A.I.A.

BRADLEY KALMANS

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04-15-2022

Beaumont, TX 77701

EARNING CENTER WATER INTRUSION AND ROOF REPAIRS

ISSUED FOR
100% REVIEW:

DATE: 04/07/2022

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DATE: 04/15/2022

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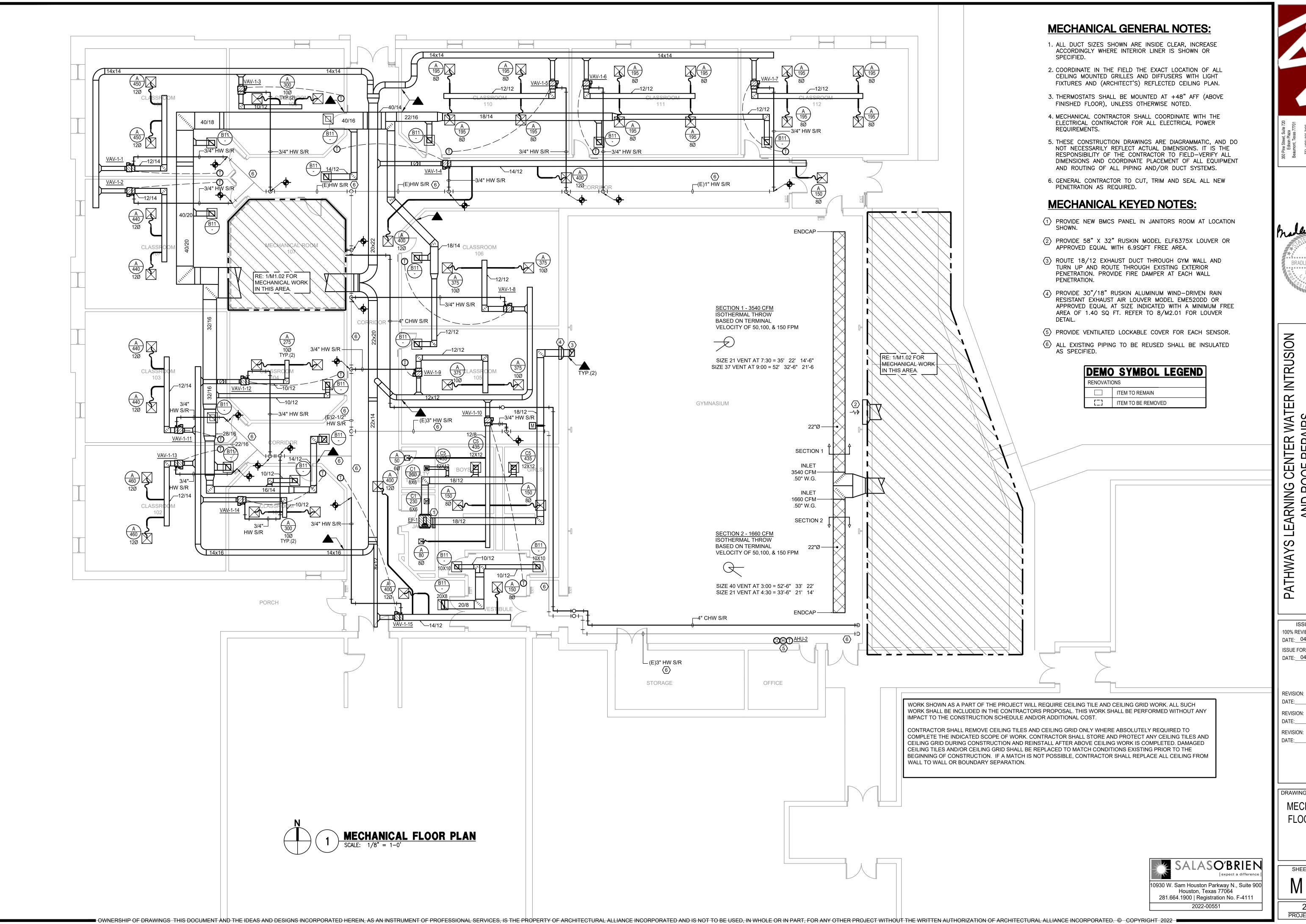
ATHWAY

MECHANICAL
DEMOLITION
FLOOR PLAN

SHEET NUMBER **M 0.01** 22004

PROJECT NUMBER

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BRADLEY KALMANS , 80219

04-15-2022

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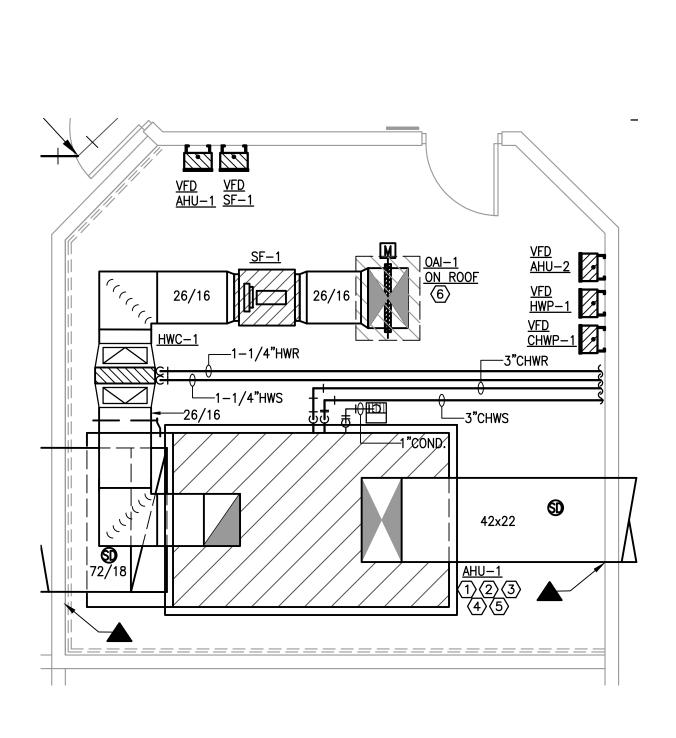
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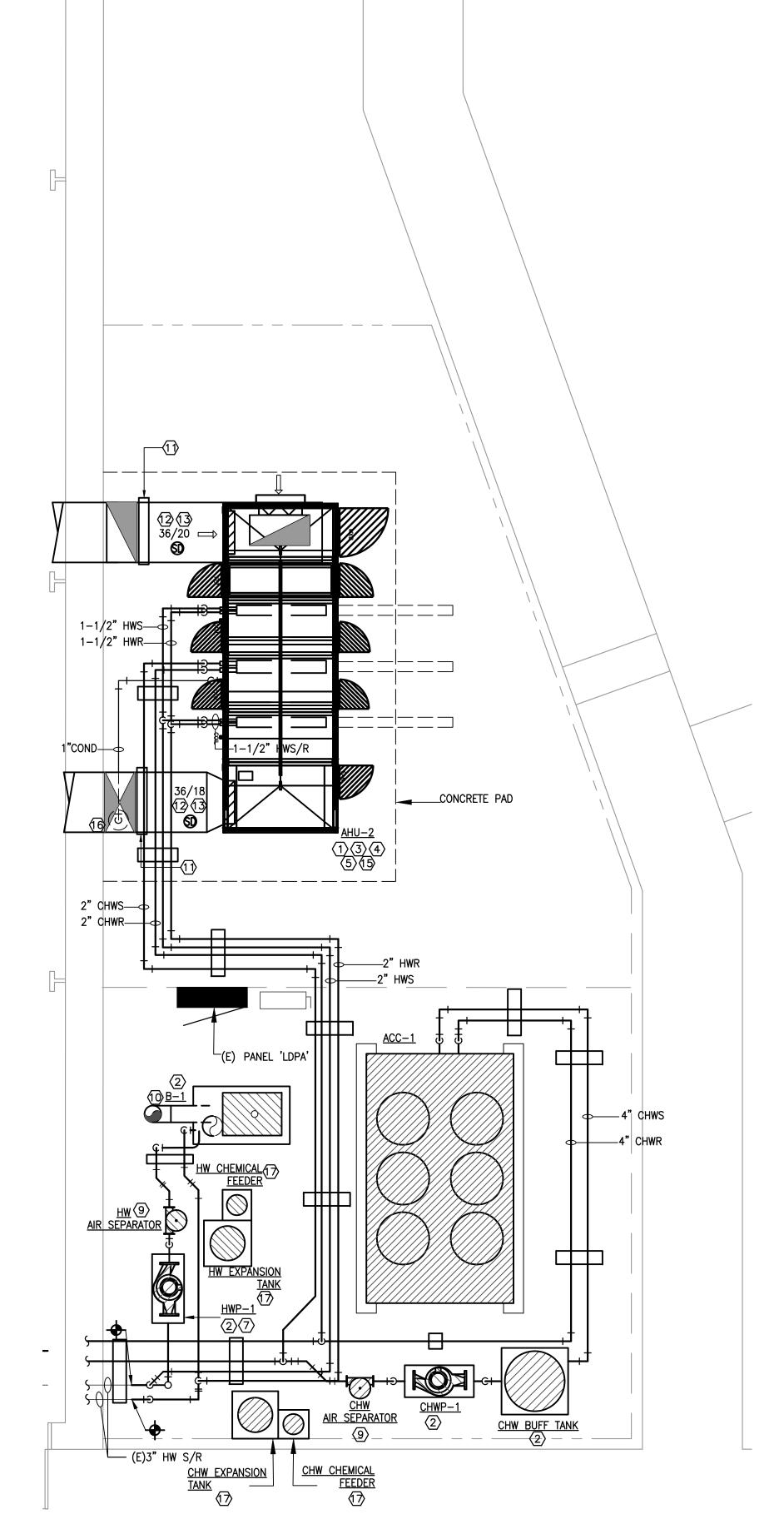
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DRAWINGS SHEET TITL

MECHANICAL FLOOR PLAN

SHEET NUMBER





MECHANICAL GENERAL NOTES:

- 1. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
- 2. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECT'S) REFLECTED CEILING PLAN.
- 3. THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.
- 4. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- 5. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.

MECHANICAL KEYED NOTES:

- 1 VERIFY SERVICE CLEARANCE FOR AIR FILTER, FAN SHAFT, AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
- 2 PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
- ROUTE FULL SIZE CONDENSATE DRAIN LINE TO FLOOR SINK. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.
- 4 Install condensate drain trap per MANUFACTURERS INSTALLATION INSTRUCTIONS.
- 5 REFER TO DETAILS FOR AHU COIL PIPING.
- (6) ROUTE FULL SIZE DUCTWORK DOWN FROM INTAKE ON ROOF AND TRANSITION TO SIZE INDICATED.
- 7 RE: 10/M2.01 FOR DETAIL ON VERTICAL INLINE PUMP SUPPORT.
- 8 RE:10/M2.01 FOR DETAIL ON CHEMICAL FEEDER TANK SUPPORT.
- 9 RE:10/M2.01 FOR DETAIL ON AIR SEPARATOR SUPPORT.
- ROUTE STAINLESS STEEL EXHAUST AIR DUCTWORK AT SIZE INDICATED UP 4'-0" ABOVE FINISHED ROOF.
- 1) PROVIDE ENCLOSED DUCT SUPPORT MODEL PHP-D.
- 12) PROVIDE VERTICAL DUCT SUPPORT AS SPECIFIED.
- (13) PROVIDE OUTDOOR DUCTWORK INSULATION AS SPECIFIED.
- PROVIDE ISOLATION VALVE.
- PROVIDE 6" THICK CONCRETE HOUSEKEEPING PAD.
- ROUTE FULL SIZE CONDENSATE DRAIN LINE TO EXISTING HUB DRAIN.
- PROVIDE OUTDOOR PIPING INSULATION AS SPECIFIED.







BRADLEY KALMANS , 80219

04-15-2022

INTRUSION LEARNING CENTER WATER AND ROOF REPAIRS **PATHWAYS**

ISSUED FOR 100% REVIEW: DATE: 04/07/2022 ISSUE FOR BID:

REVISION: DATE:_ REVISION:

DATE: 04/15/2022

DATE:__ REVISION: DATE:_

DRAWINGS SHEET TITL MECHANICAL **ENLARGED** FLOOR PLANS

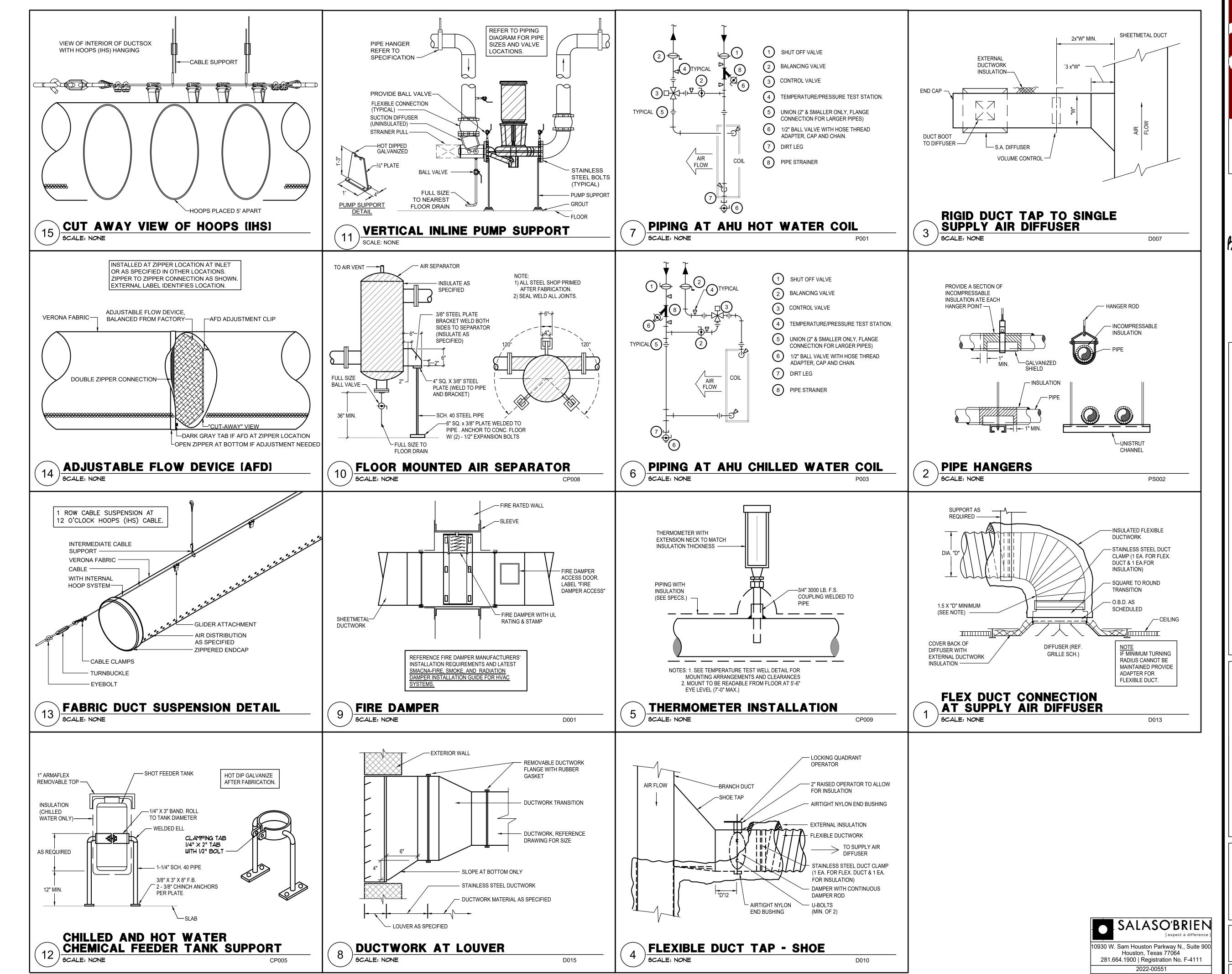
SHEET NUMBER 22004

PROJECT NUMBER

MECHANICAL ENLARGED FLOOR PLAN - MECHANICAL ROOM

SCALE: 1/4" = 1-0'

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BRADLEY KALMANS . 80219

04-15-2022

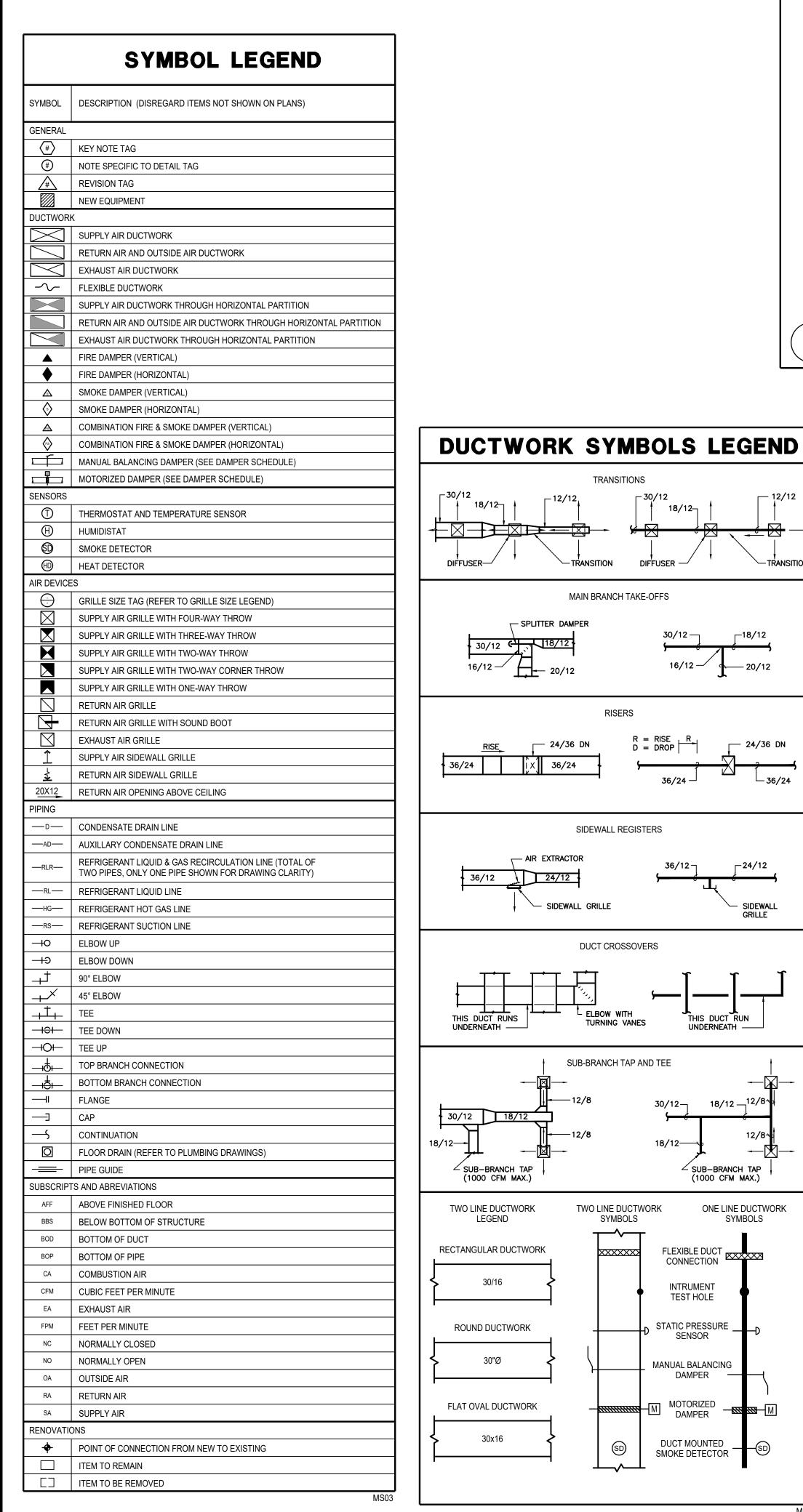
CENTER WATER INTRUSION OOF REPAIRS ARNING AND RC S **PATHWAY**8

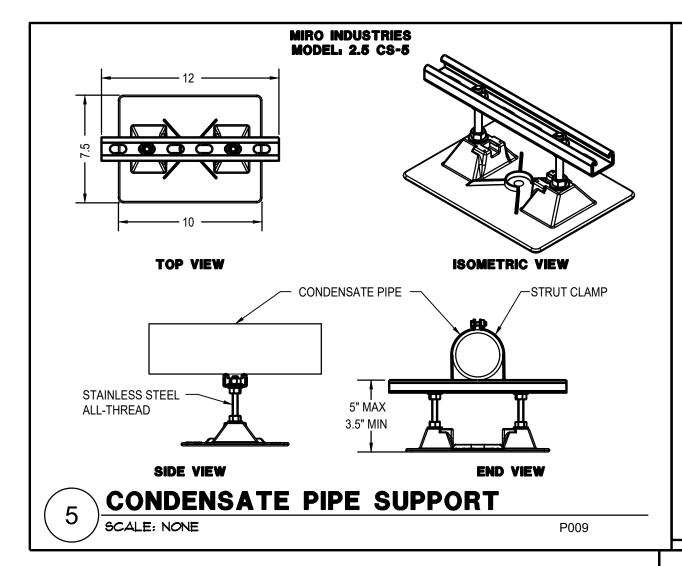
ISSUED FOR 100% REVIEW: DATE: 04/07/2022 ISSUE FOR BID: DATE: 04/15/2022 REVISION: DATE:_

REVISION: DATE:__ **REVISION:** DATE:

DRAWINGS SHEET TITLE **MECHANICAL DETAILS**

SHEET NUMBER





DUCT LINER AND INSULATION

WEATHER PROOF AIR HANDLING UNIT

SUPPLY AIR

DUCTWORK

VARIABLE AIR VOLUME AIR HANDLING UNITS

AIR HANDLING UNIT

AIR HANDLING UNITS AND FAN COIL UNITS

EXHAUST AIR SYSTEMS

 $oxed{4}$ SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED

TO THE DUCT LINING SECTION IN THE DUCTWORK SPECIFICATION FOR MORE

(5) SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND

AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT DISCHARGE

TO 10'-0" DOWNSTREAM. PROVIDE METAL NOSING AND MASTIC COVERING. REFER

ROOF MOUNTED

EXHAUST FAN

FAN COIL UNIT

EXHAUST FAN

(1) SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.

SHEETMETAL DUCTWORK RETURN AIR PLENUM WITH EXTERNAL DUCTWORK

(3) FLEXIBLE DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED

1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT INLET TO

SHEETMETAL DUCTWORK ONLY. NO INSULATION REQUIRED.

OF EPOXY PAINT. REFER TO SPECIFICATIONS FOR MORE DETAILS.

6 EXHAUST DUCTWORK AS SPECIFIED WITH FIREBOARD INSULATION AS SPECIFIED.

(8) ALL OUTSIDE DUCTWORK SHALL BE DOUBLE WALL CONSTRUCTION WITH TWO COATS

EXHAUST

LOUVER

INSULATION AS SPECIFIED.

SUPPLY AIR

EXHAUST AIR

DEVICE

DUCTWORK

SUPPLY AIR

DUCTWORK

DUCTWORK

RETURN AIR

DUCTWORK

VENTILATION AIR

DUCTWORK -

DUCTWORK 1-

VENTILATION AIR

DUCTWORK •

RETURN AIR

DUCTWORK .

SIDEWALL

UNDERNEATH

✓ SUB−BRANCH TAP

(1000 CFM MAX.)

FLEXIBLE DUCT

CONNECTION

INTRUMENT

TEST HOLE

STATIC PRESSURE

SENSOR

MANUAL BALANCING

MOTORIZED DAMPER

DAMPER

DUCT MOUNTED

SMOKE DETECTOR

DAMPER

ONE LINE DUCTWORK

SYMBOLS

RETURN AIR

TRANSITIONS

MAIN BRANCH TAKE-OFFS

RISERS

SIDEWALL REGISTERS

DUCT CROSSOVERS

- ELBOW WITH

TURNING VANES

SUB-BRANCH TAP AND TEE

TWO LINE DUCTWORK

SYMBOLS

XXXXXX

SD

X 36/24

- AIR EXTRACTOR

24/12

- SIDEWALL GRILLE

36/12

THIS DUCT RUNS

30/12 18/12

SUB-BRANCH TAP

(1000 CFM MAX.)

TWO LINE DUCTWORK

LEGEND

RECTANGULAR DUCTWORK

30/16

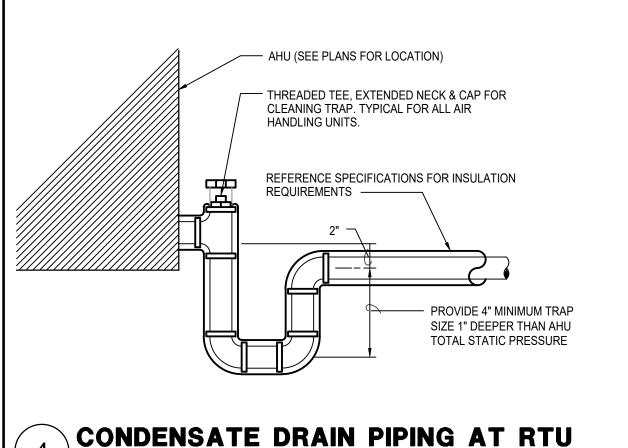
ROUND DUCTWORK

30"Ø

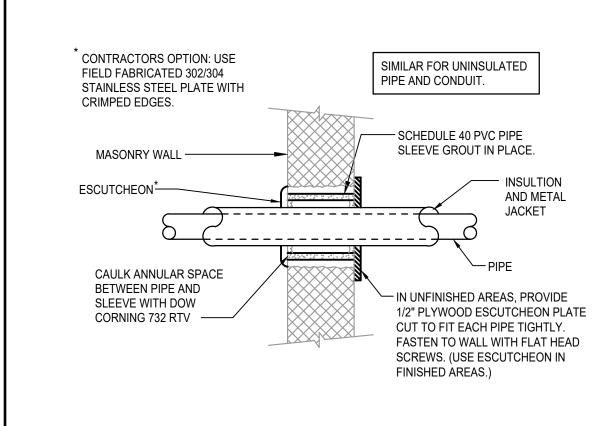
FLAT OVAL DUCTWORK

30x16

UNDERNEATH —

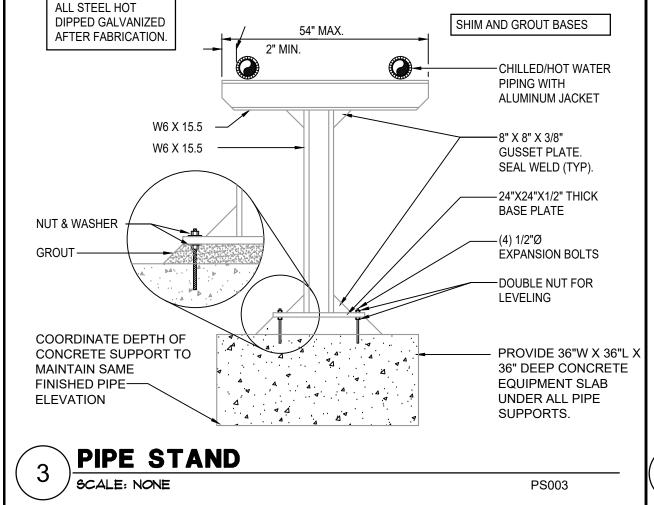


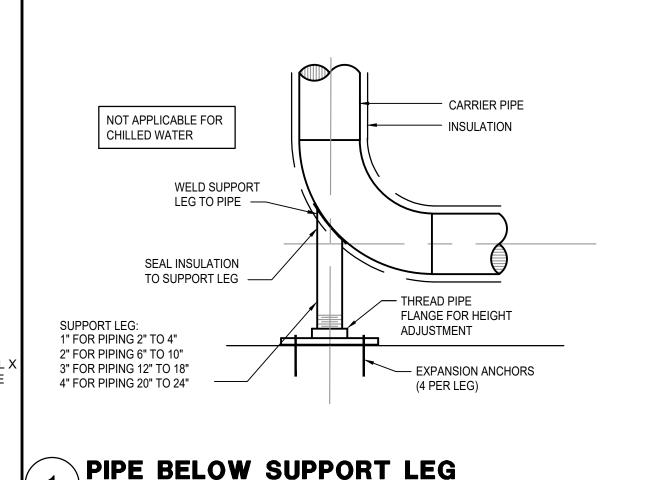
SCALE: NONE

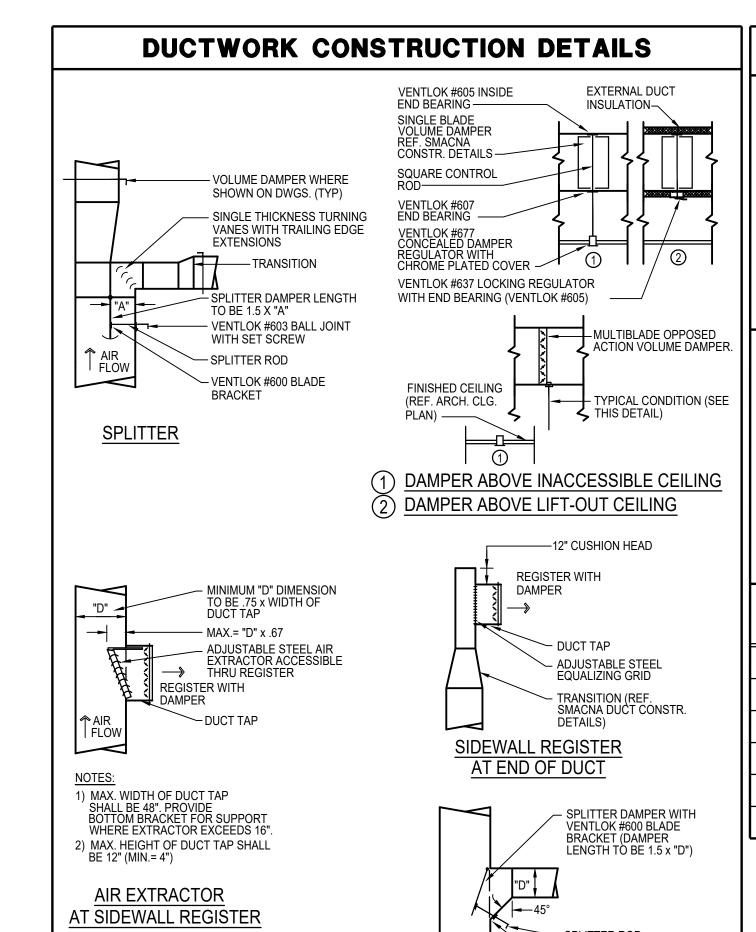


SCALE: NONE







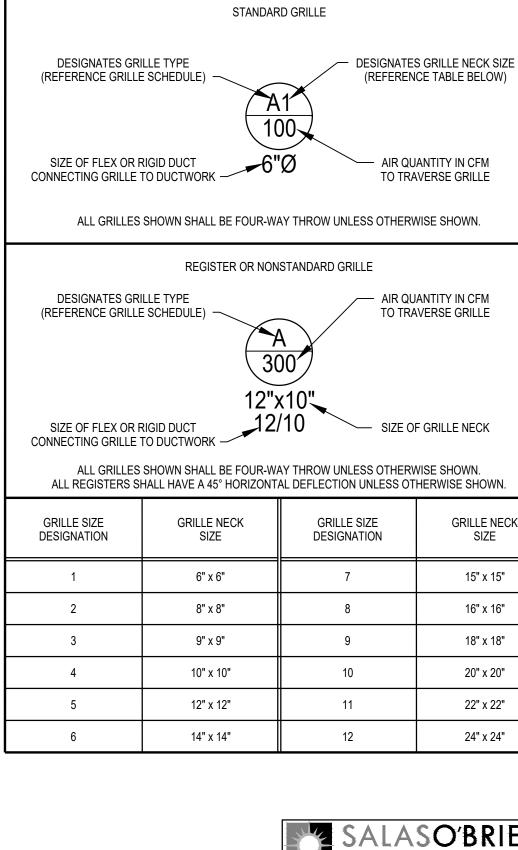


- VENTLOK #603 BALL JOINT

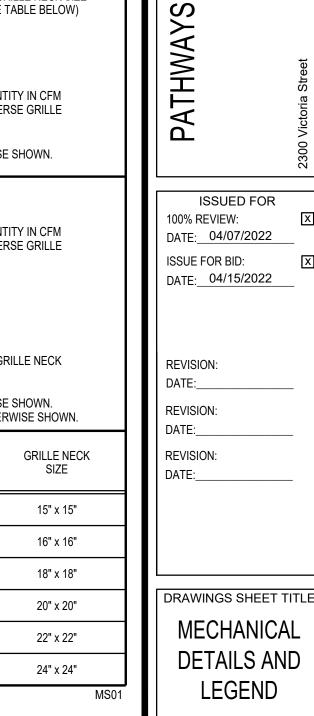
WITH SET SCREW

| FLOW

DUCT TAP



GRILLE SIZING SCHEDULE



SHEET NUMBER

22004 PROJECT NUMBER

BRADIFY KALMANS

80219

WATER INTRUSION

:NTER WA = REPAIR

ARNING AND RC

 \circ

PS008

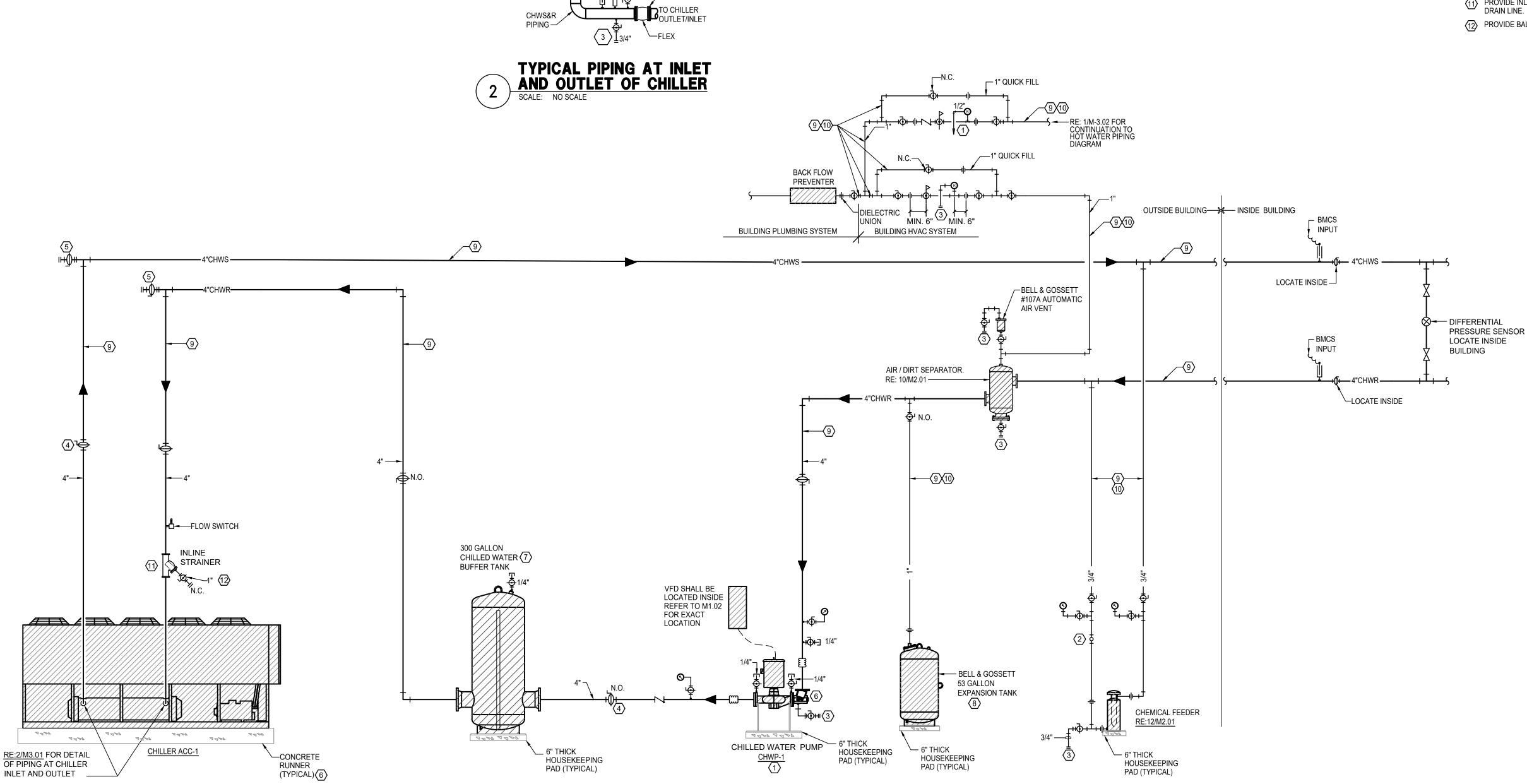
04-15-2022

SALASO'BRIEN 10930 W. Sam Houston Parkway N., Suite 900 Houston, Texas 77064 281.664.1900 | Registration No. F-4111 2022-00551

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- (1) VERTICAL INLINE PUMP. REFER TO 11/M2.01 FOR ADDITIONAL INFORMATION.
- PROVIDE AN ERNEST GAUGE #E-57-3 BRONZE BODY SIGHT GLASS WITH S.S. SHAFT, PLASTIC SPINNER AND DOUBLE WINDOW. OPERATING TEMPERATURE AND PRESSURE SHALL BE 200°F, 125 PSI MINIMUM.
- PROVIDE BALL VALVE WITH HOSE THREAD ADAPTER AT FULL SIZE UNLESS OTHERWISE NOTED.
- BALANCING VALVE TO BE PROVIDED WITH INFINITE POSITION CRANK OR MEMORY STOP FOR BALANCING
- 5 TEMPORARY CHILLED WATER ISOLATION VALVE AND BLIND FLANGE.
- 6 PROVIDE 12" WIDE X 12" TALL X UNIT LENGTH CONCRETE RUNNER REINFORCED WITH 4 CONTINUOUS #4 REBAR WITH #3 STIRRUPS AT 18" O.C. SPACING. PROVIDE 1-1/2" COVER ON TOP AND SIDES AND 3" COVER ON BOTTOM OF BEAM. (TYPICAL OF 2)
- 7 PROVIDE BUFFER TANK WITH INSULATION AND ALUMINUM JACKETING. REFER TO SPECIFICATIONS. PROVIDE REMOVABLE SECTION IN INSULATION AND JACKETING AT TANK NAMEPLATE.
- PROVIDE EXPANSION TANK WITH INSULATION AND ALUMINUM JACKETING. REFER TO SPECIFICATIONS.
- 9 PROVIDE ALL OUTDOOR PIPING WITH INSULATION AND ALUMINUM JACKETING AS SPECIFIED.
- PROVIDE HEAT TRACE ON PIPING. REFER TO ELECTRICAL DRAWINGS.
- PROVIDE INLINE STRAINER IN VERTICAL PIPE WITH 1" DRAIN LINE.
- PROVIDE BALL VALVE WITH HOSE THREAD ADAPTER.



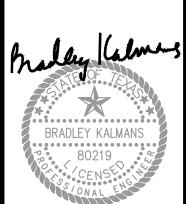
MOUNT AT 5'-6" AFF

RE:5/M2.01

PRESSURE -

CHILLED WATER PIPING DIAGRAM
SCALE: NO SCALE





04-15-2022

LEARNING CENTER WATER INTRUSION AND ROOF REPAIRS

PATHWAYS ISSUED FOR 100% REVIEW: DATE: 04/07/2022

REVISION: DATE:_ REVISION:

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DATE:__ REVISION: DATE:_

DRAWINGS SHEET TITL

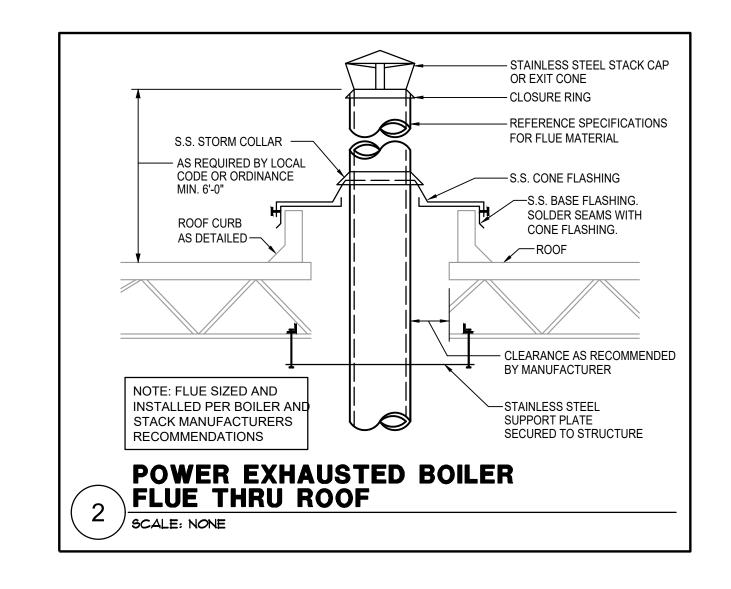
MECHANICAL PIPING DIAGRAM

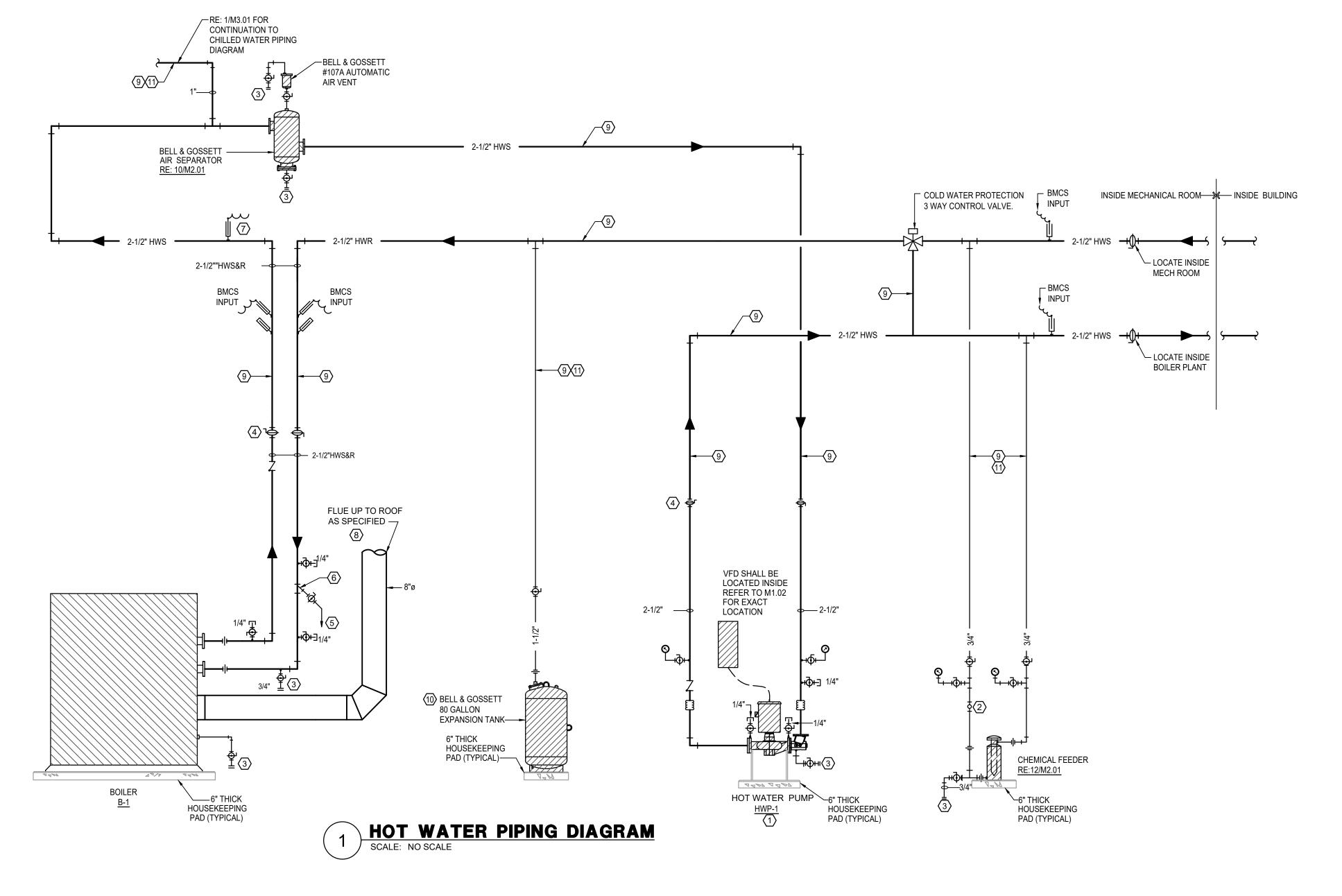
SHEET NUMBER

22004

PROJECT NUMBER

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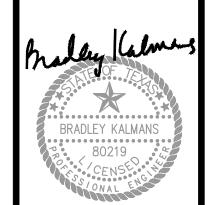
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MECHANICAL KEYED NOTES

- 1 VERTICAL INLINE PUMP. REFER TO 11/M2.01 FOR ADDITIONAL INFORMATION.
- PROVIDE AN ERNEST GAUGE #E-57-3 BRONZE BODY SIGHT GLASS WITH S.S. SHAFT, PLASTIC SPINNER AND DOUBLE WINDOW. OPERATING TEMPERATURE AND PRESSURE SHALL BE 200°F, 125 PSI MINIMUM.
- 3 PROVIDE BALL VALVE WITH HOSE THREAD ADAPTER AT FULL
- SIZE UNLESS OTHERWISE NOTED.

 4 BALANCING VALVE TO BE PROVIDED WITH INFINITE POSITION CRANK OR MEMORY STOP FOR BALANCING
- 75 ROUTE TYPE "L" COPPER DRAIN AT FULL SIZE INDICATED TO NEAREST FLOOR DRAIN.
- 6 PROVIDE INLINE STRAINER.
- (7) HEADER TEMPERATURE SENSOR. PROVIDED BY BOILER MANUFACTURER.
- (8) REFER TO DETAIL 2/M-3.02 FOR MORE INFORMATION ON POWER EXHAUSTED FLUE.
- PROVIDE ALL OUTDOOR PIPING WITH INSULATION
- AND ALUMINUM JACKETING AS SPECIFIED. PROVIDE EXPANSION TANK WITH INSULATION AND
- ALUMINUM JACKETING. REFER TO SPECIFICATIONS.
- PROVIDE HEAT TRACE ON PIPING. REFER TO ELECTRICAL DRAWINGS.





04-15-2022

LEARNING CENTER WATER INTRUSION AND ROOF REPAIRS **PATHWAYS**

ISSUED FOR

ISSUE FOR BID: DATE: 04/15/2022 REVISION:

100% REVIEW: DATE: 04/07/2022

DATE:_ REVISION: DATE:__ REVISION: DATE:_

DRAWINGS SHEET TITL

MECHANICAL PIPING DIAGRAM

SHEET NUMBER

22004



GENERAL NOTES:

1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL

SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

PRESSURE LOSS. COORDINATE WITH ELECTRICIAN. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR

MARK

1. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL. 2. PROVIDE HORIZONTAL UNIT.

3. PROVIDE VARIABLE VOLUME UNIT WITH VARIABLE FREQUENCY DRIVE.

4. PROVIDE SUPPLY SIDE DISCHARGE/ RETURN TOP DISCHARGE. 5. PROVIDE THREE-WAY COOLING CONTROL VALVES.

6. PROVIDE THREE-WAY HEATING CONTROL VALVES. 7. PROVIDE UNIT WITH ANGLED FILTER SECTION. 8. PROVIDE UNIT WITH MIXING BOX.

9. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION. 10. PROVIDE HOT WATER COIL IN RE-HEAT POSITION.

11. PROVIDE BAROMETRIC RELIEF DAMPER. 12. PROVIDE UNIT WITH FACTORY MOUNTEWD OUTSIDE AIR MONITORING STATION,

RETURN AND OUTSIDE DAMPERS.

BRADLEY KALMANS

04-15-2022

CENTER WATER INTRUSION OF REPAIRS M M AND

ATHWA ISSUED FOR 100% REVIEW: DATE: 04/07/2022

DATE: 04/15/2022

REVISION: DATE:_ REVISION: DATE:_

ISSUE FOR BID:

REVISION: DATE:

DRAWINGS SHEET TITL MECHANICAL

SCHEDULES

SHEET NUMBER 22004

PROJECT NUMBER

AIR HANDLING UNIT PIPE SIZE TO COIL (IN.) AIR TEMPERATURE (°F) REMARKS ENTERING ENTERING LEAVING LEAVING ENTERING GPM DRY BULB WET BULB DRY BULB WET BULB TEMP. (°F) WATER

AHU-1

AIR CFM

11,500

1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.

15 230/3/60

81.0

67.7

53.0

52.5

45

2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

90.9

15.0

1. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL. 2. PROVIDE HORIZONTAL UNIT.

3. PROVIDE VARIABLE VOLUME UNIT WITH VARIABLE FREQUENCY DRIVE.

4. PROVIDE TOP DISCHARGE. 5. PROVIDE THREE-WAY COOLING CONTROL VALVES.

6. PROVIDE UNIT WITH ANGLED FILTER SECTION. 7. PROVIDE UNIT WITH MIXING BOX.

1-7

FAN													
MARK	LOCATION	CFM	MAXIMUM RPM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.	LOCALLY SWITCHED BY	INTERLOCKED WITH	FAN TYPE	BELT/DIRECT DRIVE	MANUFACTURER	MODEL NUMBER	REMARKS
EF-1	JANITOR -	1300	1725	0.25	1/3	120/1/60	-	SF-1	INLINE	BELT	соок	SQNB	1,2,3,4
SF-1	MECH RM -	3050	1725	0.5	1	240/3/60	-	AHU-1	INLINE	BELT	соок	SQNB	1,2,3,4,5,6

GENERAL NOTES:

1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE

LOSS. COORDINATE WITH ELECTRICIAN. 2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

3. FAN SHALL BE CENTRIFUGAL, BELT DRIVEN TYPE UNLESS OTHERWISE SCHEDULED

SUPPLY OUTSIDE EXT. STATIC HORSE CURRENT

2.0

3,050

AIR CFM | PRESSURE | POWER | CHARAC. |

1. REFER MANUFACTURER FOR INSTALLATION INSTRUCTIONS. 2. PROVIDE WITH DISCONNECT SWITCH.

3. SUSPEND UNIT WITH FOUR HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER

FOR MORE INFORMATION. 4. PROVIDE WITH MOTORIZED DAMPER.

5. PROVIDE WITH MERV-8 FILTER BOX.

HOT WATER COIL										
MARK	CFM	ENTERING AIR TEMPERATURE (°F)	MINIMUM CAPACITY (BTUH)	GPM	ENTERING WATER TEMP. (°F)		MUM RE DROP WATER (FT. W.G.)	MINIMUM FACE AREA (SQ. FT.)	SERVES	REMARKS
HWC-1	3050	20	115,290	11.9	130	0.25	10	-	AHU-1	1,2
REMARKS:										

1. FLANGE FOR MOUNTING IN DUCTWORK

1. PROVIDE WITH ROOF CURB.

2. PROVIDE WITH BIRD SCREEN.

PROVIDE WITH MOTORIZED DAMPER.

2. PROVIDE WITH 3-WAY CONTROL VALVE.

RELIEF VENT & O.A. INTAKE									
MARK	CFM	MAX. S.P. (IN.)	THROAT AREA (SQ. FT.)	COOK MODEL NO.	SERVES	REMARKS			
OAI-1	3,050	.11	3.75	GI	SF-1	(1,2,3)			

VAV-1-1	900	430	10	1.9	3/4	-
VAV-1-2	880	435	10	1.9	3/4	-
VAV-1-3	600	270	8	1.2	3/4	-
VAV-1-4	950	820	10	3.6	1	-
VAV-1-5	780	415	8	1.8	3/4	-
VAV-1-6	780	415	8	1.8	3/4	-
VAV-1-7	780	415	8	1.8	3/4	-
VAV-1-8	750	425	8	1.8	3/4	-
VAV-1-9	750	425	8	1.8	3/4	-
VAV-1-10	430	400	6	2.0	3/4	-
VAV-1-11	880	235	10	1.9	3/4	-
VAV-1-12	550	430	8	1.2	3/4	-
\/Δ\/_1_13	920	125	10	1.8	3//	_

950

VAV-1-14

VAV-1-15

1.2

2.6

3/4

3/4

3. MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH HEATER COIL SHALL BE 0.25" ESP.

5. BTUH REQUIRED FOR HOT WATER HEATING IS HEATING GPM MULTIPLIED BY 10,000. 6. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO

7. UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE CEILING. AVOID

8. PROVIDE WITH THREE WAY HEATING CONTROL VALVES.

	MARK	CFM	CFM	DIAMETER SIZE (IN.)	GPM	CONNECTING PIPE SIZE	REMARKS
	VAV-1-1	900	430	10	1.9	3/4	-
	VAV-1-2	880	435	10	1.9	3/4	-
	VAV-1-3	600	270	8	1.2	3/4	-
	VAV-1-4	950	820	10	3.6	1	•
	VAV-1-5	780	415	8	1.8	3/4	-
	VAV-1-6	780	415	8	1.8	3/4	-
	VAV-1-7	780	415	8	1.8	3/4	-
	VAV-1-8	750	425	8	1.8	3/4	1
	VAV-1-9	750	425	8	1.8	3/4	-
	VAV-1-10	430	400	6	2.0	3/4	-
	VAV-1-11	880	235	10	1.9	3/4	-
ſ	VAV-1-12	550	430	8	1.2	3/4	_

VARIABLE VOLUME TERMINAL BOX

DIAMETER

AL NOTES:		

270

605

MAXIMUM MINIMUM

1. MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE TERMINAL BOX SHALL BE 0.2" ESP. 2. MAXIMUM VELOCITY THROUGH DUCT INLET SHALL BE 2,000 FPM.

4. MAXIMUM STATIC PRESSURE DROP OF WATER THROUGH HEATER COIL SHALL BE 10' W.G.

MANUFACTURER FOR MORE DETAILS.

MOUNTING OVER LIGHTS WHEREVER POSSIBLE.

REMARKS:		ı
1. N/A	DSC)6

3. CHILLER SHALL MEET OR EXCEED STANDARDIZED FULL-LOAD AND PART-LOAD EFFICIENCIES INDICATED IN THE 2015 IECC.	
REMARKS: 1. PROVIDE WITH LOW AMBIENT HEAD PRESSURE CONTROL. 2. PROVIDE WITH INTEGRAL MAIN ELECTRICAL DISCONNECTT SWITCH.	SALASO'BRIE expect a differen
 PROVIDE WITH INSULATION ON ALL SUCTION LINES. PROVIDE WITH A MINIMUM FULL LOAD EFFICIENCY OF 10.03 EER AND A MINIMUM IPLV OF 14.60 	10930 W. Sam Houston Parkway N., Suite 9 Houston, Texas 77064 281.664.1900 Registration No. F-4111

GAS INPUT WATER HEATING BLOWER ELECTRICAL MANUFACTURER CHARAC. REMARKS GPM FLUE SIZE MODEL OUTPUT PRESSURE FLA (AMP) (IN. Ø) (MBH) DROP (FT.) (V/Ø/Hz) NON-CONDENSING 500 425 10.0 50.0 8.8 120/1/60 LOCHINVAR 1-2 **GENERAL NOTES:** 1. PROVIDE 8 OUNCE GAS PRESSURE TO BOILER. 1. PROVIDE NON-CONDENSING BOILER. 2. MAINTAIN MINIMUM CLEARANCE AROUND A BOILER OF 24 INCHES PER TEXAS 2. PROVIDE OUTDOOR BOILER. BOILER LAW. MAINTAIN MINIMUM CLEARANCES FOR TUBE PULL AND CLEANING OF TUBES AS RECOMMENDED BY THE BOILER'S MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS

BOILER - FORCED AIR

					PU	MP				
MARK	SERVICE	TYPE	GPM	HEAD (FT.)	MAXIMUM RPM	MOTOR HORSEPOWER	CURRENT	MANUFACTURER	MODEL	REMARKS
HWP-1	HEATING HOT WATER	VERTICAL INLINE	38.0	75	1,750	2	230/3/60	BELL & GOSSETT	E-80SC	1,2,3
CHWP-1	CHILLED WATER	VERTICAL INLINE	150.0	75	1,750	7.5	230/3/60	BELL & GOSSETT	E-80SC	1,2,3

INSPECTION.

REQUIRED BY NEC.

1. PUMP IS TO HAVE A NON-OVERLOADING MOTOR. 2. MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND

1. PROVIDE SUCTION DIFFUSER WITH GAUGE TAPS AT PUMP INLET. 2. PROVIDE WITH VARIABLE FREQUENCY DRIVE. 3. PROVIDE PUMP WITH GAUGE TAPS.

						GRILLE		
MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	REMARKS
Α	SUPPLY AIR	DIFFUSER	-	ALUMINUM	-	TITUS	OMNI	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24" X 24" FACE. (1) OR 12" X 12" FACE. (1)
В	RETURN AIR	DIFFUSER	-	ALUMINUM	-	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24" X 24" FACE. (1) OR 12" X 12" FACE. (1)
С	EXHAUST AIR	DIFFUSER	-	ALUMINUM	-	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24" X 24" FACE. (1) OR 12" X 12" FACE. (1)
D	RETURN AIR	GRILLE	-	STEEL	-	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED. (1)

			1			
GENE	RAL NOTES:					
1.	DAMPERS NOTED	AS U. L. SHALL	BE A "U.	L." CLASS	SIFIED C	EILI
	DADIATION DAMPI		AAL DLAN	VET		

RADIATION DAMPER WITH THERMAL BLANKET. 2. AIR DEVICE COLOR SHALL BE SELECTED BY ARCHITECT.

			D	AMPER		
MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #639 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS

N/A - NOT APPLICABLE

	PACK	AGE) Alf	R COO	LED	CHILLE	ER
MARK	ACTUAL CAPACITY (TONS)	LEAVING WATER TEMP. (°F)	GPM	MAXIMUM WATER PRESSURE DROP (IN.W.G.)	AMBIENT AIR TEMP. (°F)	CURRENT CHARACTERISTIC	REMARKS
ACC-1	73	42	150	20.0	95.0	230/3/60	1,2,3,4,5,6,7

ENE	RAL	NO	TES	<u>}:</u>			

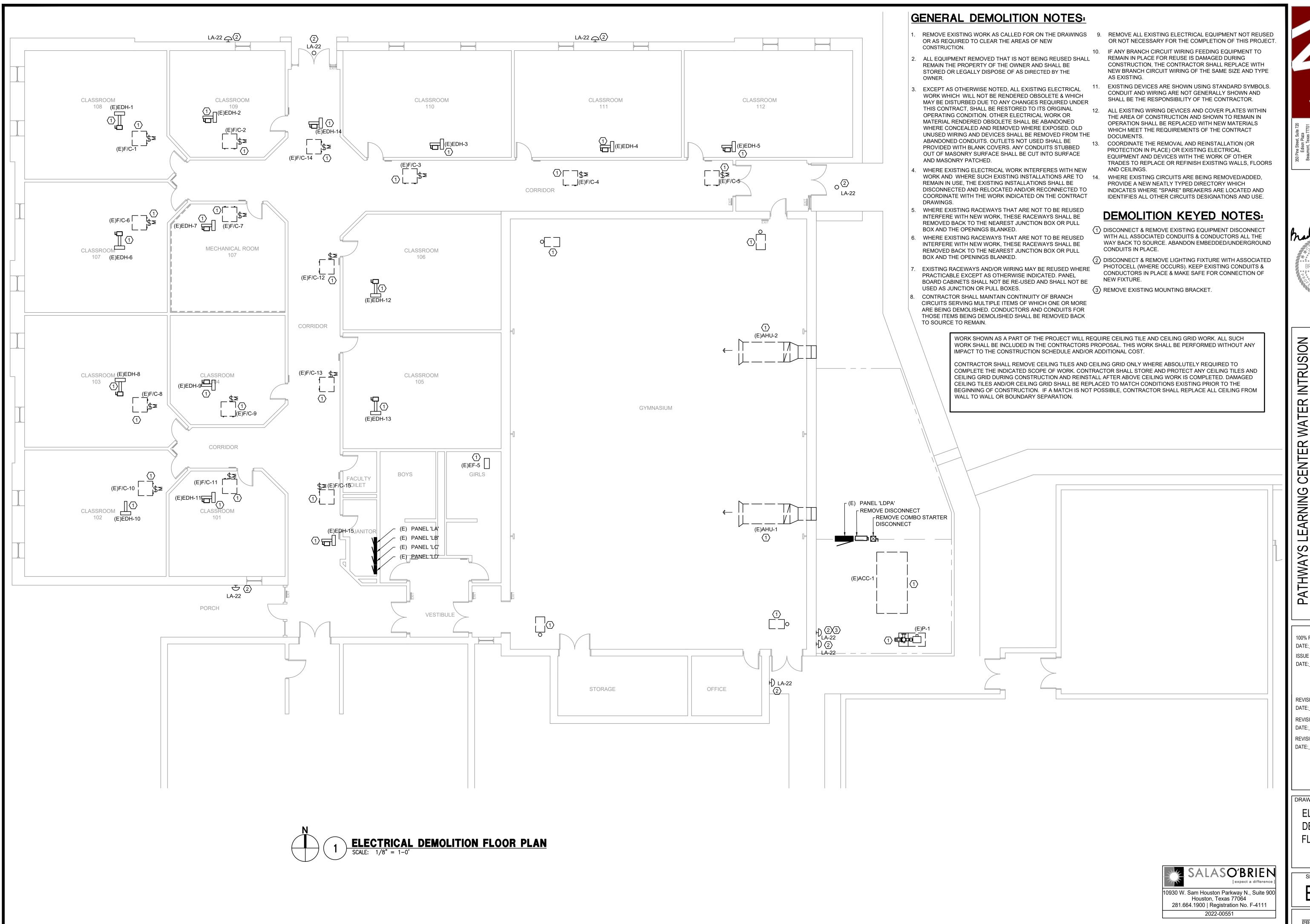
1. MAXIMUM FOULING FACTOR FOR THE EVAPORATOR IS 0.0001

2. MAINTAIN MINIMUM CLEARANCES REQUIRED BY CHILLER MANUFACTURER FOR PROPER AIRFLOW TO FANS AND UNIT. MANTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON EQUIPMENT FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC.

2022-00551

1. COORDINATE FINAL AIR DEVICE LOCATIONS WITH ARCHITECT.

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04-15-2022

BRADLEY KALMANS

, 80219

CENTER WATER I LEARNING CEN AND ROOF F

100% REVIEW: DATE: 04/07/2022 ISSUE FOR BID: DATE: 04/15/2022

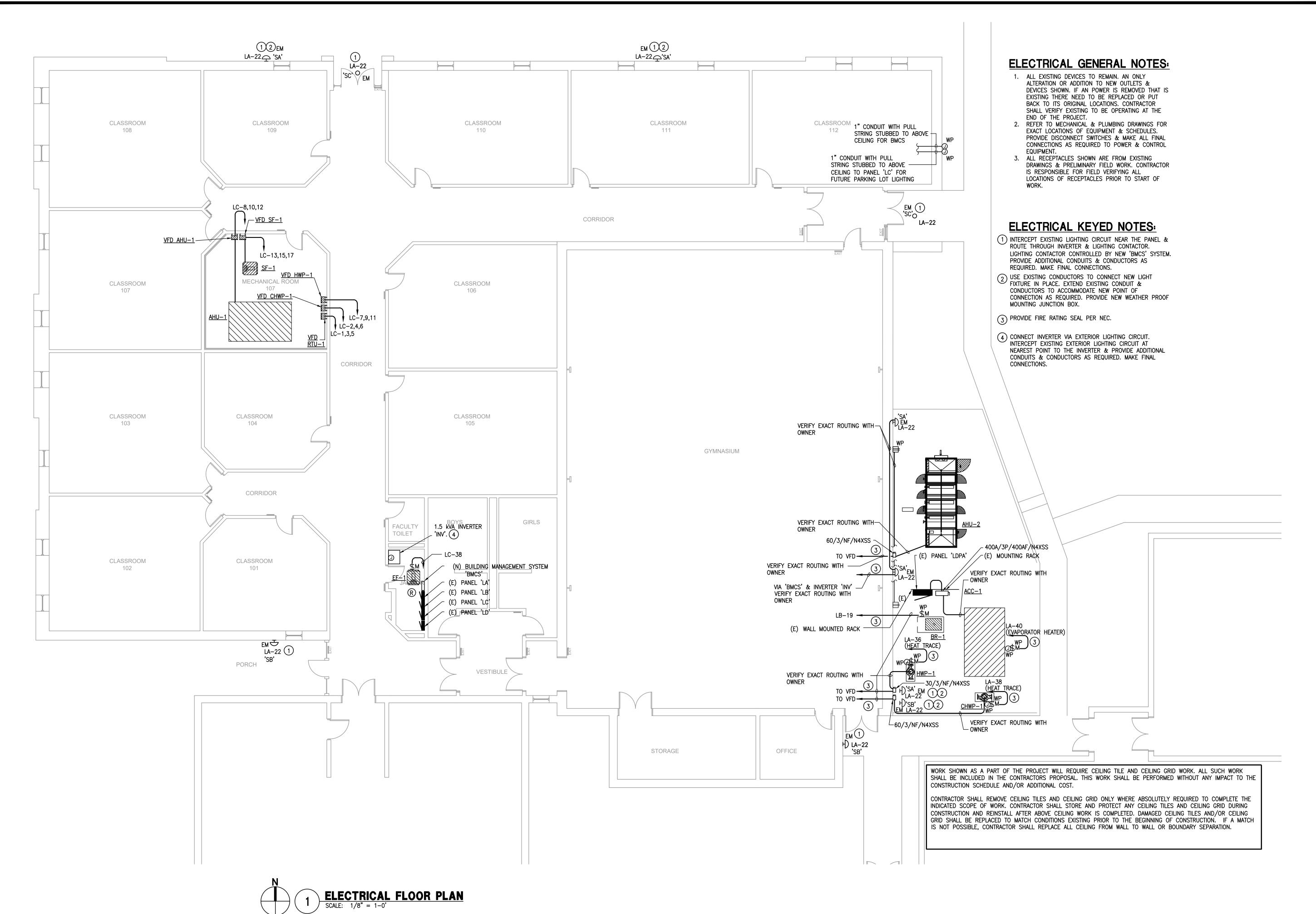
REVISION: REVISION:

REVISION:

DRAWINGS SHEET TITL

ELECTRICAL DEMOLITION FLOOR PLAN

SHEET NUMBER



Edison Plaza
Beaumont, Texas 77701
TEL (409) 866-7196
FAX (409) 866-1745
J. ROB CLARK, A.I.A.
CONALD M. JONES, A.I.A.

BRADLEY KALMANS

80219

CENSE
ONAL

04-15-2022

strict

PATHWAYS LEARNING CENTER WATER INTRUSION AND ROOF REPAIRS

ISSUED FOR

100% REVIEW:

DATE: 04/07/2022

ISSUE FOR BID:

DATE: 04/15/2022

REVISION:
DATE:_____
REVISION:

DATE:_____ REVISION: DATE:_____

DRAWINGS SHEET TITLE
ELECTRICAL
FLOOR PLAN

SHEET NUMBER
E 1.01

10930 W. Sam Houston Parkway N., Suite 900 Houston, Texas 77064 281.664.1900 | Registration No. F-4111

2022-00551

22004
PROJECT NUMBER

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YMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GHTING (ETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)
	LIGHT FIXTURE - RECESSED OR SURFACE MOUNTED
	LIGHT FIXTURE - RECESSED OR SURFACE MOUNTED ON EMERGENCY CIRCUIT
<u>○</u>	DOWNLIGHT FIXTURE DOWNLIGHT FIXTURE ON EMERCENCY CIRCUIT
<u>Ю</u>	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT LIGHT FIXTURE - WALL MOUNTED
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
×	EXIT LIGHT - CEILING MOUNTED ON EMERGENCY CIRCUIT
HXX	EXIT LIGHT - WALL MOUNTED ON EMERGENCY CIRCUIT
\$	ONTROLS & DEVICES SINGLE POLE SWITCH
\$ ³	3-WAY SWITCH
\$4	4-WAY SWITCH
\$K	KEYED SWITCH
\$ ^D	WALL BOX DIMMER, SIZE AND TYPE AS REQUIRED PILOT LIGHT SWITCH
<u>Φ΄</u> \$ ^T	6-HOUR ROTARY TIMER SWITCH WITH NO HOLD U.N.O.
'	PUSH BUTTON EPO SWITCH (KEY RESET) WITH COVER
\$ ^{MC}	MOMENTARY CONTACT SWITCH
\$R &B	LOW VOLTAGE DIGITAL KEYPAD
\$B	BUILDING MANAGEMENT (BMCS) LOCAL OVERRIDE SWITCH OCCUPANCY SENSOR (AUTO ON / AUTO OFF WITHIN 20-MINUTES)
\bigcirc	VACANCY SENSOR (MANUAL ON / AUTO OFF WITHIN 20-MINUTES)
♦	PHOTOCELL SENSOR
R#	LIGHTING CONTROL SYSTEM. ('#' DENOTES TYPE - SEE LIGHTING CONTROLS SCHEDULE)
ER	UL924 EMERGENCY LOAD CONTROL RELAY UNLESS NOTED OTHERWISE.
ECEPTAC O	LES AND OUTLETS SIMPLEX RECEPTACLE
0	DUPLEX RECEPTACLE
⊕ ∪	DUPLEX RECEPTACLE WITH TWO USB CHARGING PORTS.
⊕	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
<u>₩</u> ₩∪	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
•••	DOUBLE DUPLEX WITH TWO USB CHARGING PORTS IN 2-GANG BOX WITH SINGLE COVER PLATE DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX
<u>#</u>	WITH SINGLE COVER PLATE
<u>₩</u> Ø	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE FLUSH FLOOR DUPLEX RECEPTACLE OUTLET
	FLUSH FLOOR DOUBLE DUPLEX RECEPTACLE OUTLET
ΦΔ	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH DUPLEX RECEPTACLE AND DATA OUTLET. REFER TO TECHNOLOGY SERIES DRAWINGS FOR DATA CABLE QUANTIES.
	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH DOUBLE DUPLEX RECEPTACLE AND DATA OUTLE
	REFER TO TECHNOLOGY SERIES DRAWINGS FOR DATA CABLE QUANTIES.
<u>E</u>	FURNITURE FEED FLOOR BOX.
<u>P</u>	FURNITURE FEED POKE THRU FLOOR BOX. JUNCTION BOX
<u> </u>	FLUSH REMOTE GFCI DEVICE (LOCATE IN READILY ACCESSIBLE LOCATION)
SPDL	SURGE PROTECTION DEVICE LOW LEVEL
SPDVH STOR CO	SURGE PROTECTION DEVICE VERY HIGH LEVEL NTROLLERS AND EQUIPMENT
(S)	MOTOR, MAKE FINAL MOTOR CONNECTION
\$	MOTOR-RATED SWITCH. 20A UNLESS INDICATED OTHERWISE.
<u> </u>	DISCONNECT SWITCH AS REQUIRED
₩	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
<u> </u>	MOTOR STARTER PREVIOUS DEVICE MAKE ELECTRICAL FINAL CONNECTIONS
♦ VFD	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY MECHANICAL CONTRACTOR
	AND INSTALLED BY ELECTRICAL CONTRACTOR. HIGH EFFICIENCY HARMONIC FILTER FURNISHED BY MECHANICAL CONTRACTOR
HF	AND INSTALLED BY ELECTRICAL CONTRACTOR.
	LOW VOLTAGE TRANSFORMER, SIZE AND TYPE AS REQUIRED.
P _ECTRICA	CHIME/BUZZER L EQUIPMENT
.51110/	ELECTRICAL PANELBOARD; REFER TO FLOOR PLANS FOR VOLTAGE.
	DRY TYPE TRANSFORMER
•	PLYWOOD TELEPHONE BACKBOARD
RCUITING	
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
	3/4"C. UNLESS OTHERWISE NOTED; LONG HATCH, NEUTRAL; SHORT
 	HATCH, PHASE; LONG HATCH & HOOK, INSULATED GROUND. NO HATCHES INDICATES 2 CONDUCTORS. ARROW INDICATES HOMERUN.
+	PARTIAL ELECTRICAL HOME RUN
JBSCRIP WP	S AND ABBREVIATIONS INDICATES 'WEATHERPROOF'
H	INDICATES 'HORIZONTAL'
NL	INDICATES 'NIGHT LIGHT'.
TP	INDICATES 'TAMPER PROOF'
(KS)	INDICATES 'KNEE SPACE'. LOCATE WIRING DEVICE IN KNEESPACE
U.N.O.	INDICATES 'UNLESS NOTED OTHERWISE'
(E)	INDICATES EXISTING TO REMAIN INDICATES REPLACE DEVICE AND COVERPLATE.
(K)	INDIGNALO NEI EMOE DEVICE AND COVENTEATE.
(R)	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY
	CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

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ELECTRICAL DEMOLITION NOTES

- 1. DEMOLISH ALL SELECTED OUTLETS U.O.N., DETERMINE EXACT LOCATION OF OTHER EXISTING ELECTRICAL DEVICES, EQUIPMENT & WIRING BEFORE COMMENCING WORK & REPAIR/REPLACE DAMAGE OCCASIONED BY THE CONTRACTOR TO LOCATE AND PRESERVE ANY AND ALL EXISTING PORTIONS OF THE ELECTRICAL SYSTEM THAT ARE TO REMAIN.
- REMOVE EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.
- 3. ALL EQUIPMENT REMOVED THAT IS NOT BEING REUSED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR LEGALLY DISPOSE OF AS DIRECTED BY THE OWNER.
- 4. EXCEPT AS OTHERWISE NOTED, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE & WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED CONDUITS. OUTLETS NOT USED SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS STUBBED OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND MASONRY PATCHED.
- . WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH EXISTING INSTALLATIONS ARE TO REMAIN IN USE, THE EXISTING INSTALLATIONS SHALL BE DISCONNECTED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS.
- 6. WHERE EXISTING RACEWAYS THAT ARE NOT TO BE REUSED INTERFERE WITH NEW WORK, THESE RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX OR PULL BOX AND THE OPENINGS BLANKED. 7. EXISTING RACEWAYS AND/OR WIRING MAY BE REUSED WHERE PRACTICABLE EXCEPT AS OTHERWISE INDICATED. PANEL BOARD CABINETS SHALL NOT BE RE-USED AND SHALL NOT BE USED AS
- JUNCTION OR PULL BOXES. B. CONTRACTOR SHALL MAINTAIN CONTINUITY OF BRANCH CIRCUITS SERVING MULTIPLE ITEMS OF WHICH ONE OR MORE ARE BEING DEMOLISHED. CONDUCTORS AND CONDUITS FOR THOSE ITEMS BEING DEMOLISHED SHALL BE REMOVED BACK TO SOURCE TO REMAIN.
- 9. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT NOT REUSED OR NOT NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- 10. IF ANY BRANCH CIRCUIT WIRING FEEDING EQUIPMENT TO REMAIN IN PLACE FOR REUSE IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE WITH NEW BRANCH CIRCUIT WIRING OF THE SAME SIZE AND TYPE AS EXISTING.
- 1. EXISTING DEVICES ARE SHOWN USING STANDARD SYMBOLS. CONDUIT AND WIRING ARE NOT GENERALLY SHOWN AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 12. ALL EXISTING WIRING DEVICES AND COVER PLATES WITHIN THE AREA OF CONSTRUCTION AND SHOWN TO REMAIN IN OPERATION SHALL BE REPLACED WITH NEW MATERIALS WHICH MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 13. COORDINATE THE REMOVAL AND REINSTALLATION (OR PROTECTION IN PLACE) OR EXISTING ELECTRICAL EQUIPMENT AND DEVICES WITH THE WORK OF OTHER TRADES TO REPLACE OR REFINISH EXISTING WALLS, FLOORS AND CEILINGS.
- 4. WHERE EXISTING CIRCUITS ARE BEING REMOVED/ADDED, PROVIDE A NEW NEATLY TYPED DIRECTORY WHICH INDICATES WHERE "SPARE" BREAKERS ARE LOCATED AND IDENTIFIES ALL OTHER CIRCUITS DESIGNATIONS AND USE.
- 15. PROVIDE RECEPTACLE AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURALS FOR AREAS AFFECTED

DISTRIBUTION SWITCHBOARD/

PANELBOARD

PER NEC TABLE 250-122

ELECTRICAL

TRANSFORMER

UL APPROVED GROUND

SCALE: NONE

LUG OR EXOTHERMIC ——

GROUNDING DETAIL

BOND PER NEC-ARTICLE 250.

ELECTRICAL

SWITCH

ELECTRICAL GENERAL NOTES:

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL
- 2. ALL EMPTY CONDUIT SHALL HAVE PULL STRING.

STRUCTURAL STEEL/BUILDING GROUNDING BUS

BOND NEUTRAL AND GROUND BUS ONLY AT

MAIN SWITCH, AND

SYSTEMS.

METAL WATER PIPE -

— 3/4"x10' COPPER GROUND ROD

SEPERATELY DERIVED

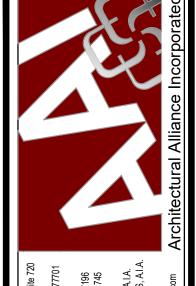
ALL METAL PIPE

WATER PIPE

/-BUILDING SLAB

REBAR (20-FEET)

3. EACH CONDUIT SHALL BE LIMITED TO (3) CIRCUITS MAXIMUM.





04-15-2022

LEARNING CENTER WATER INTRUSION AND ROOF REPAIRS **PATHWAYS**

ISSUED FOR 100% REVIEW: DATE: 04/07/2022 ISSUE FOR BID: DATE: 04/15/2022

REVISION: DATE:_ REVISION: DATE:__ REVISION: DATE:_

DRAWINGS SHEET TITLE ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES

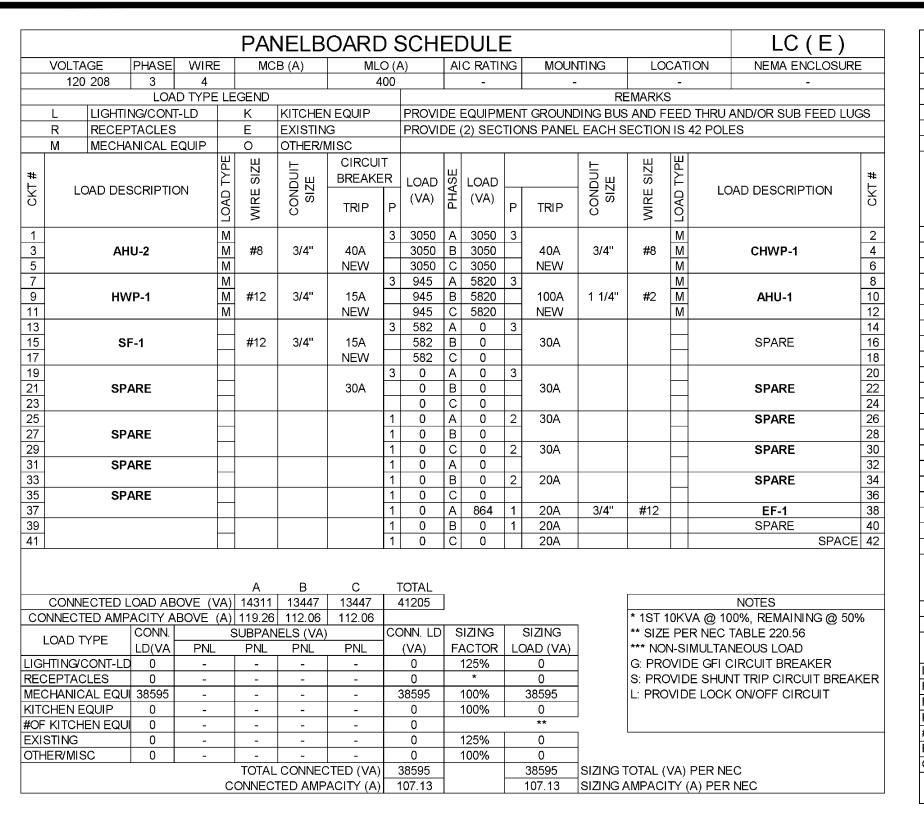
SHEET NUMBER

22004

PROJECT NUMBER

Houston, Texas 77064 281.664.1900 | Registration No. F-4111 2022-00551

10930 W. Sam Houston Parkway N., Suite 900



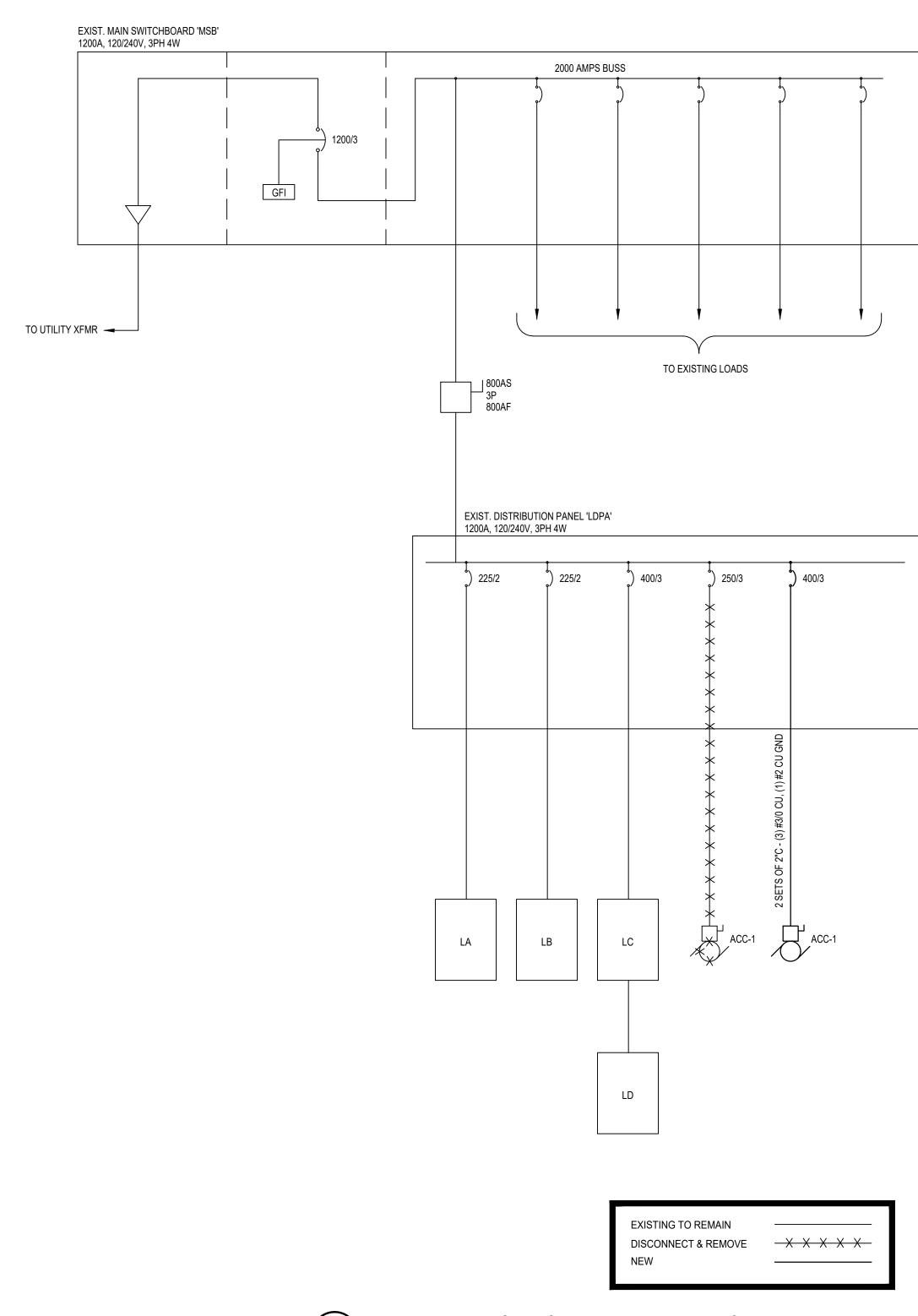
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31			SSROO		L			20A	1	800	C	800	1	20A		 	냔		TOR - BREAKROOM	_
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CON	INECTE	D AMP	ACITY A	BOVE	` '			121.67										_	%, REMAINING @ 50)%
1.0	OAD TY	 /PF	CONN.				ELS (VA)		CC	DNN. LD		SIZING		SIZING					ABLE 220.56	
			LD(VA)	PNL		PNL	PNL	PNL		(VA)		ACTOR	LC	OAD (VA)		II.			EOUS LOAD	
	TING/C			-		-	-	-	:	23200		125%		29000					RCUIT BREAKER	
	EPTACI		800	_		-	-	-		800		*		800		1			TRIP CIRCUIT BREA	١KE
	HANICA			-		-	-	-	1	3100		100%		3100		L: PRO	VID	E LOCK	DN/OFF CIRCUIT	
	HEN EC		0	-		-	-	-		0	Ĺ	100%		0						
	KITCHE	N EQU		-		-	-	-		0				**						
	TING		0	-		-	-	-	1	0		125%		0						
OTHE	ER/MIS	C	0	-		-		-		0	Ľ	100%		0						
					_		CONNEC	•		27100						•	,	PER NEC		
					CC	DNNEC.	TED AMP.	achy (A)) 1	112.92	l			137.08	SIZING	AMPACI	IY ((A) PER N	IEC	

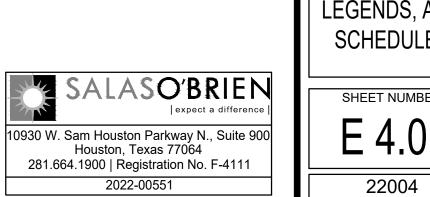
		'		CC			TED (VA)		27100 12.92				32900 137.08	-	•	,	PER NEC A) PER NEC	
					PAN	NELB	OARE) {	SCHI	ΕC	DULE	<u> </u>					LB(E)	
١.	/OLTAGE	PHASE	WIR	= 1		B (A)		0 (/			C RATIN		MOUN	ITING	100	CATI	, ,)=
	120 240	1	3		IVIO	D (/-)		225	<u> </u>	731	10,000		SURF		1	NITO		<u> </u>
	120 240	104	D TYPE	<u>_</u>	GEND						10,000		0014		EMARKS			
ı	ПСНП	NG/CON			K	KITCHE	N FOLIP		PROV/I)E I	FOLIDI	IFN	T GROUNI				THRU AND/OR SUB FEED LU	IGS
		PTACLES			E	EXISTIN							NS PANEL					
		ANICAL E			0	OTHER/			I I I C VIL	<u> </u>	(2) OLO	110	TWO I / WILL		LOTION	110 -	FZ T OLLO	
CKT #	LOAD DES			LOAD TYPE	WIRE SIZE	CONDUIT	CIRCUI BREAKE TRIP		LOAD (VA)	PHASE	LOAD (VA)	l	CIRCUIT REAKER TRIP	CONDUIT	WIRE SIZE	LOAD TYPE	LOAD DESCRIPTION	#
				임	≥	0	INF	-				-	IRIF	0	>	2		
1	RECEP	TACLES		R	#12	3/4"	20A	1	800	Α	800	1	20A			R	RECEPTACLES	
3		TACLES		R			20A	1	800	С	800	1	20A			R	RECEPTACLES	
5	RECEP	TACLES		R			20A	1	800	Α	1000	1	20A			М	EDF'S	
7	RECEP	TACLES		R			20A	1	800	С	1000	1	20A			М	EDF'S	
9		TACLES		R			20A	1	800	Α	800	1	20A			R	RECEPTACLES - RM 123	
11	RECEP	TACLES		R			20A	1	800	C	500	1	20A			М	SOUND SYSTEM	
13	RECEP	TACLES		R			20A	1	800	Α	1000	1	20A			M	HEAT TRALER	
15		EATER		R			20A	1	800	C	0	1	20A				SPARE	
17		EATER		R			20A	1	800	Α	1000	1	20A			М	WINDOW UNIT	
19		ILER		М	#12	3/4"	20A	1	1056	С	1000					M		
21	SP.	ARE					20A	1	0	Α	500	1	20A			M	AC CONTROL PANEL	
23				Ш			20A	2	0	С	0	1	20A				SPARE	
25				Ш					0	Α	0						SPACI	
	PACE			Н					0	C	2000	2	60A			M	FAN COIL CONTACOR	
	PACE			Н					0	Α	2000					M		
31		ARE		H			20A	1	0	C	0	1	20A			++	SPARE	
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37		ARE		\vdash			20A	1	0))	0	1	20A			++	SPARE SPARE	
39		ARE ARE		Н			20A 20A	1	0	A C	0	1	20A 20A				SPARE SPARE	_
41		ARE ARE		\vdash			20A 20A	1	0			1	20A 20A			+	SPARE SPARE	+
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	PACE	/ I \ L		\vdash			20/1	+	0	C	0	<u>'</u>	20/1			+	SPACE	_
·					A		С	_	ΓΟΤΑL	<u> C </u>	0							
	CONNECTED I					-	9556	 	20656]					* 407 4	014	NOTES	٠٠.
CON	NECTED AMP		ROAF	$\overline{}$		 ELC () (^)	79.63	-	74141 T T		NZINO.	_	CIZINO	1	1		A @ 100%, REMAINING @ 50	۱%
LC	OAD TYPE	CONN.	PNL		PNL SUBPAN	JELS (VA) PNL	PNL	100	ONN. LD (VA)	1	SIZING ACTOR	l	SIZING DAD (VA)		_		R NEC TABLE 220.56 MULTANEOUS LOAD	
LIGHT	ING/CONT-LE			П	-	-	-	\vdash	0	_	125%		0	1	1		E GFI CIRCUIT BREAKER	
	PTACLES	9600	_	\neg	_	_	-		9600		*		9600	1	1		E SHUNT TRIP CIRCUIT BREA	λKI
	HANICAL EQU		_	\neg	-	_	-	+	10056		100%		10056	1	1		E LOCK ON/OFF CIRCUIT	-
	HEN EQUIP	0	-	\neg	-	_	-		0	_	100%		0	1				
	(ITCHEN EQU		-		-	-	-		0			•	**	-				
EXIST		0	-		-	-	-		0		125%		0]				
	R/MISC	0							0	_	100%		0]				
					TOTAL	CONNEC	TED (VA)		19656				19656	SIZING 1	TOTAL (VA) F	PER NEC	
				C			ACITY (A)	-	81.90]			81.90	-	,	,	A) PER NEC	

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TAG	MANUFACTURER	DESCRIPTION	(QTY) LAMPS	WATTS/FIXTURE	VOLT	MOUNTING
SA	LITHONIA LIGHTING	WALL MOUNTED 7700 LUMEN PACKAGE, 4000K WITH WALL	LED	71	120	WALL MOUNTE
	DSX0 LED-P3-40K-T4M-WBA-MVOLT-DDBXD	BRACKET, DARK BRONZE FINISH				
SB	LITHONIA LIGHTING	WALL MOUNTED LED 7000 LUMENS 4000K 80CRI	LED	52	120	WALL MOUNTE
	WDGE3 LED-P1-40K-80CRI-R3-MVOLT					
SC	LITHONIA LIGHTING	13" DIAMETER SURFACE MOUNTED LED, 4000K, 25W DARK	LED	13	120	SURFACE
	APX13-NODIM-25-40K-MVOLT-FCL-BRZ	BRONZE FINISH				MOUNTED



1 PARTIAL ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE



BRADLEY KALMANS 80219

04-15-2022

LEARNING CENTER WATER INTRUSION AND ROOF REPAIRS **PATHWAYS**

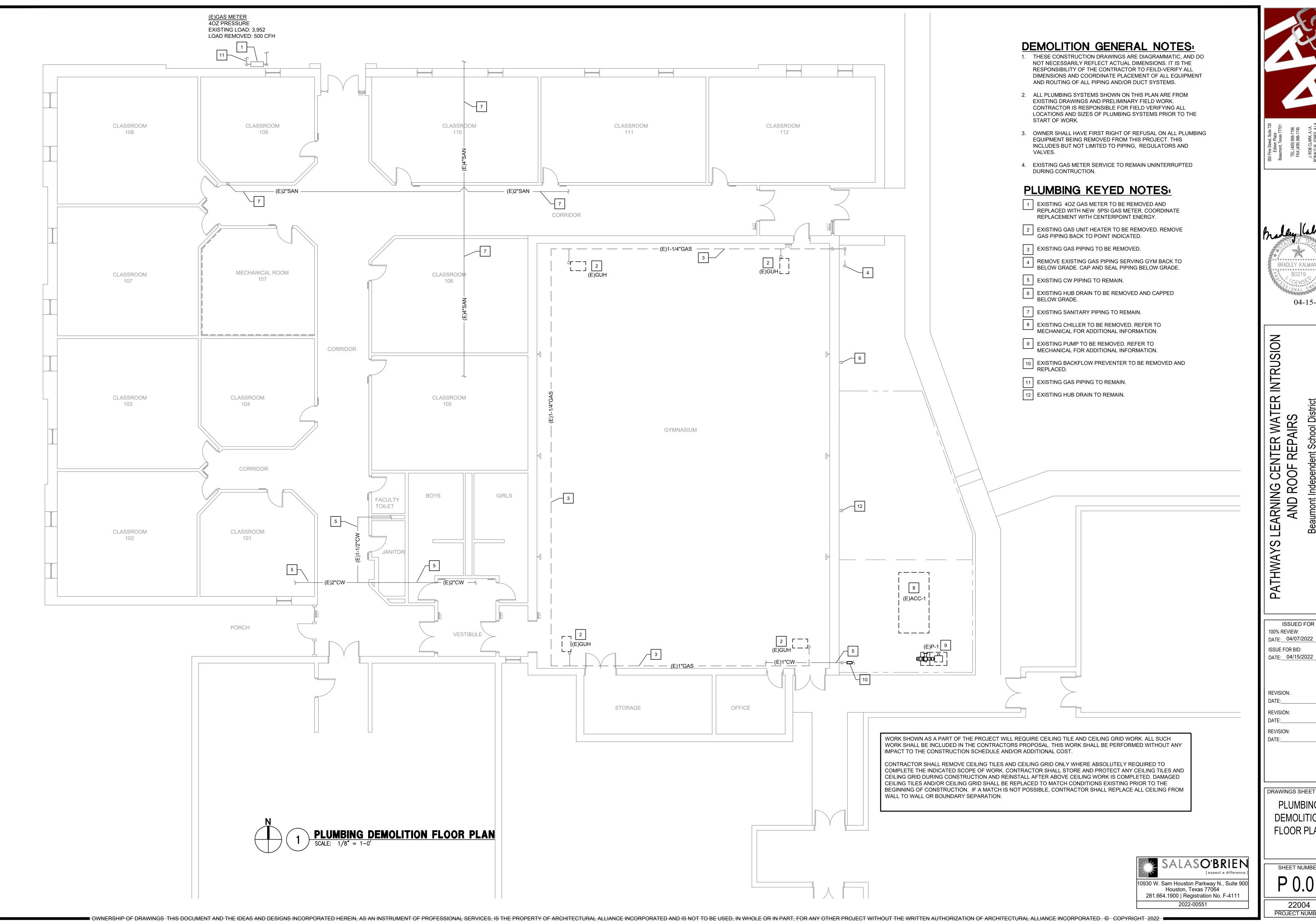
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DRAWINGS SHEET TITLE ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES

SHEET NUMBER



BRADLEY KALMANS , 80219

04-15-2022

LEARNING CENTER WATER INTRUSION AND ROOF REPAIRS

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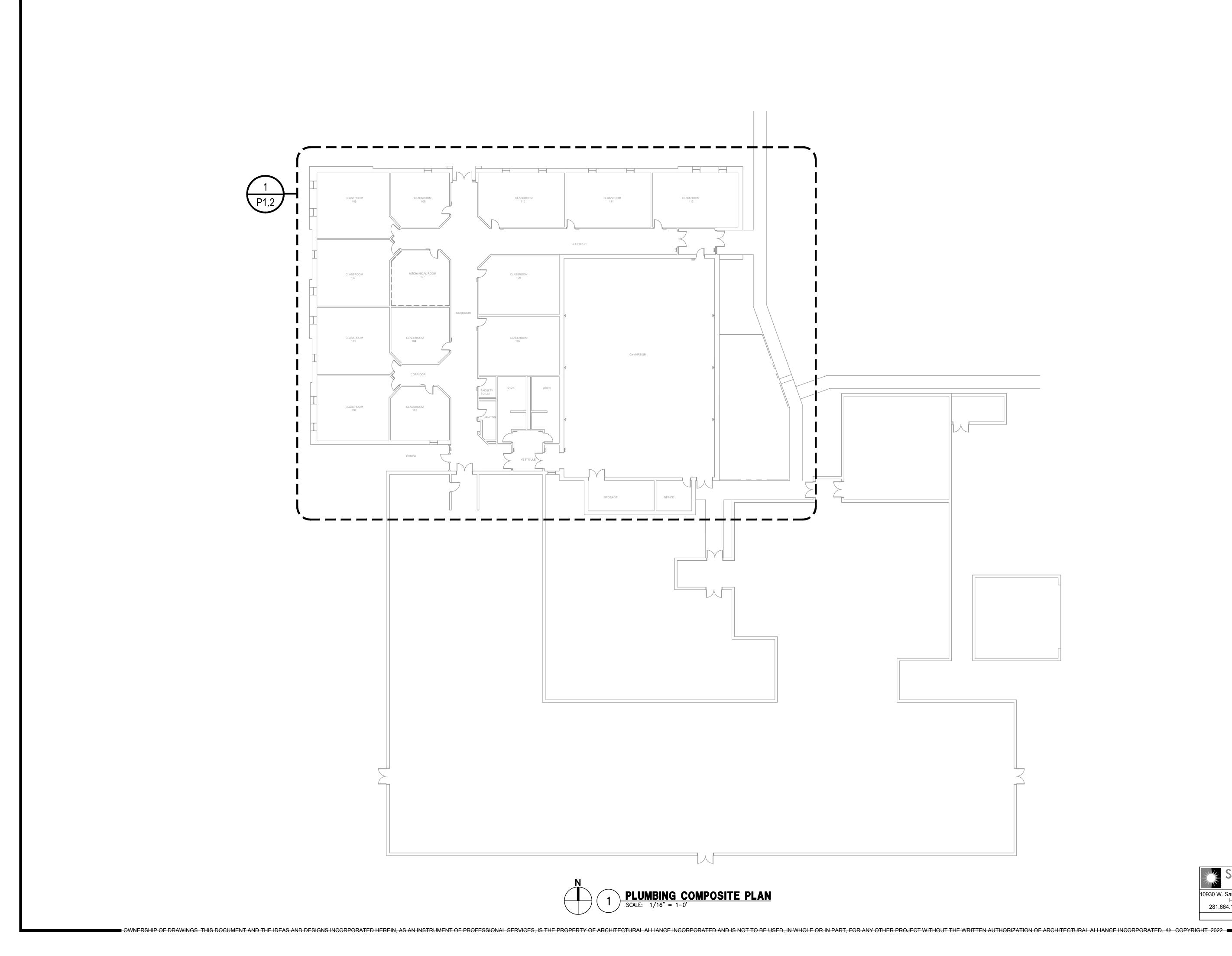
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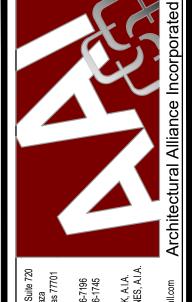
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DRAWINGS SHEET TITLE

PLUMBING **DEMOLITION** FLOOR PLAN

SHEET NUMBER





04-15-2022

PATHWAYS LEARNING CENTER WATER INTRUSION AND ROOF REPAIRS

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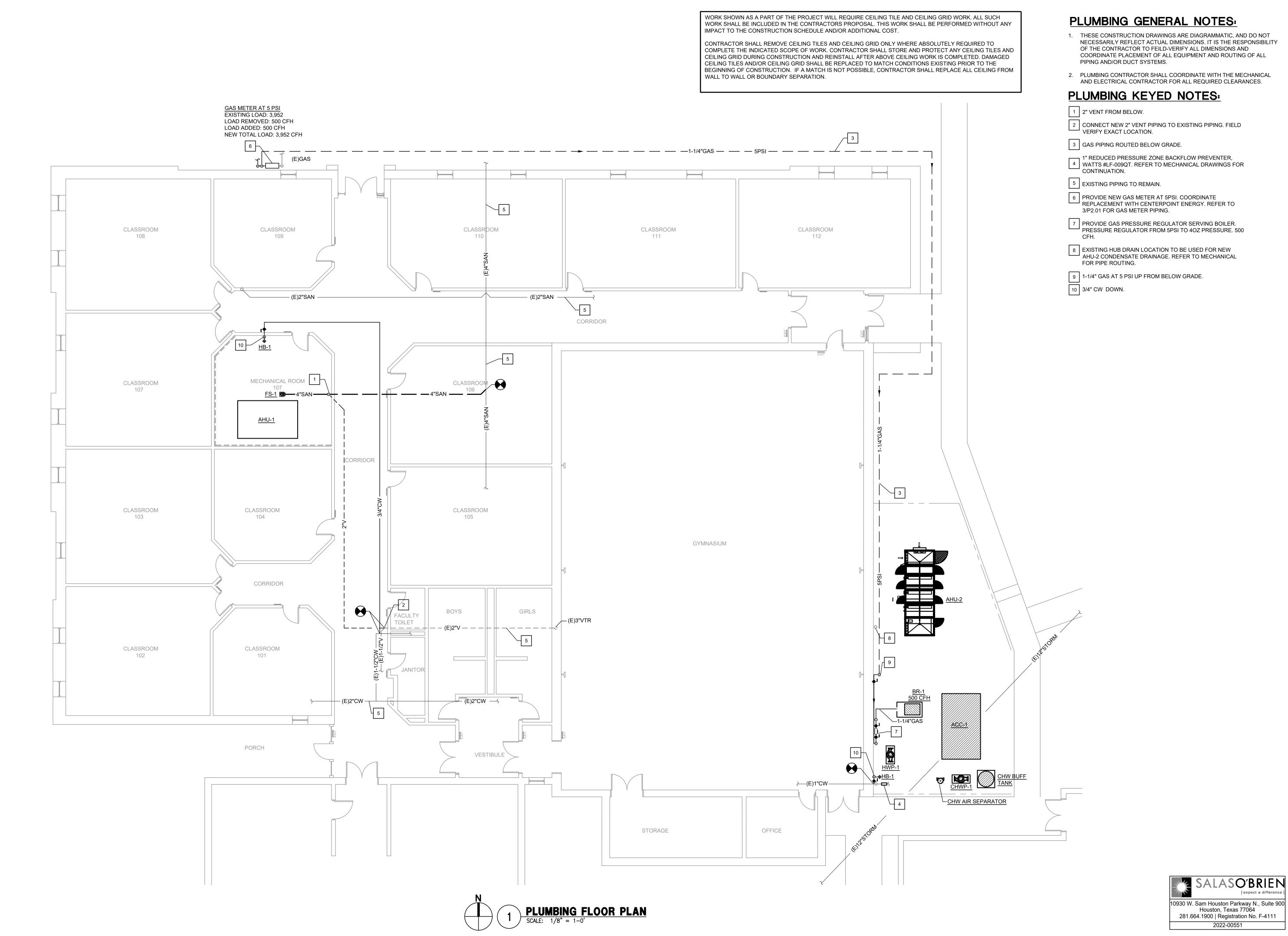
DRAWINGS SHEET TITLE **PLUMBING** FLOOR PLAN

SHEET NUMBER

SALASO'BRIEN
| expect a difference |

10930 W. Sam Houston Parkway N., Suite 900 Houston, Texas 77064 281.664.1900 | Registration No. F-4111

2022-00551



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LEARNING CENTER WATER INTRUSION AND ROOF REPAIRS **PATHWAYS**

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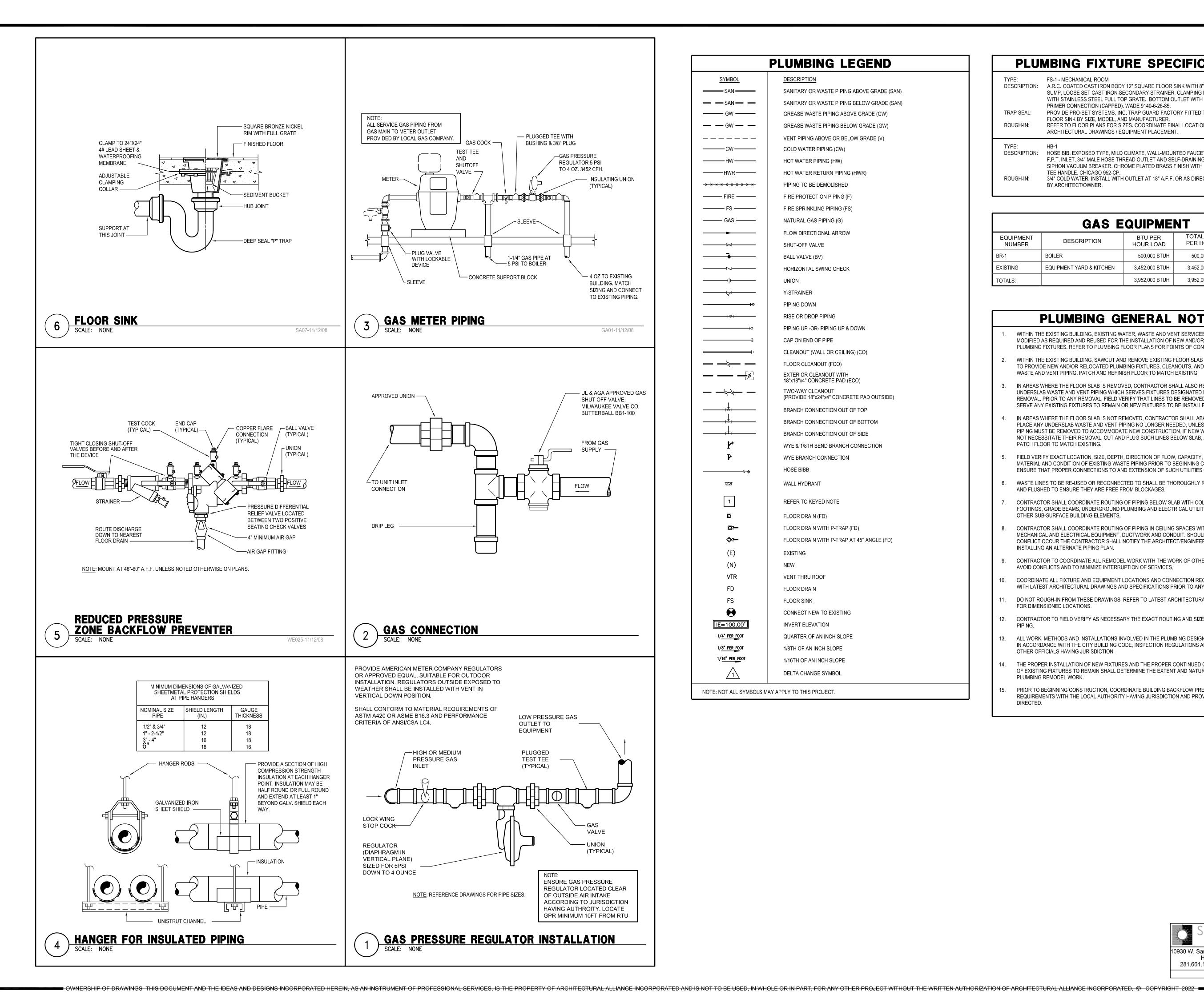
DATE: 04/15/2022

REVISION:

DRAWINGS SHEET TITL

PLUMBING FLOOR PLAN

SHEET NUMBER



<u>SYMBOL</u> DESCRIPTION ------ SAN ------SANITARY OR WASTE PIPING ABOVE GRADE (SAN) — — SAN — — SANITARY OR WASTE PIPING BELOW GRADE (SAN) GREASE WASTE PIPING ABOVE GRADE (GW) GREASE WASTE PIPING BELOW GRADE (GW) — — GW — — VENT PIPING ABOVE OR BELOW GRADE (V) _____ COLD WATER PIPING (CW) _____CW____ HOT WATER PIPING (HW) ——HW—— -----HWR------HOT WATER RETURN PIPING (HWR) PIPING TO BE DEMOLISHED ——— FIRE ——— FIRE PROTECTION PIPING (F) —— FS —— FIRE SPRINKLING PIPING (FS) —— GAS —— NATURAL GAS PIPING (G) FLOW DIRECTIONAL ARROW SHUT-OFF VALVE BALL VALVE (BV) HORIZONTAL SWING CHECK UNION Y-STRAINER 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 OUTSIDE) 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 WALL HYDRANT REFER TO KEYED NOTE FLOOR DRAIN (FD) FLOOR DRAIN WITH P-TRAP (FD) FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD) **EXISTING** NEW VTR VENT THRU ROOF FLOOR DRAIN FLOOR SINK CONNECT NEW TO 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 DELTA CHANGE SYMBOL NOTE: NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT.

PLUMBING LEGEND

PLU	IMBING FIXTU	IRE SPEC	CIFICAT
TYPE: DESCRIPTION	FS-1 - MECHANICAL ROOM : A.R.C. COATED CAST IRON BOD' SUMP, LOOSE SET CAST IRON S WITH STAINLESS STEEL FULL TO	ECONDARY STRAINER,	CLAMPING DEVICE
TRAP SEAL:	PRIMER CONNECTION (CAPPED) PROVIDE PRO-SET SYSTEMS, IN FLOOR SINK BY SIZE, MODEL, AN REFER TO FLOOR PLANS FOR SI ARCHITECTURAL DRAWINGS / E	C. TRAP GUARD FACTO ND MANUFACTURER. ZES. COORDINATE FINA	AL LOCATION WITH
TYPE: DESCRIPTION	HB-1 : HOSE BIB. EXPOSED TYPE, MILD F.P.T. INLET, 3/4" MALE HOSE TH SIPHON VACUUM BREAKER. CHF	READ OUTLET AND SEL	F-DRAINING ANTI
ROUGH-IN:	TEE HANDLE. CHICAGO 952-CP. 3/4" COLD WATER. INSTALL WITH BY ARCHITECT/OWNER.		
	GAS E	QUIPMEN	T
EQUIPMENT NUMBER	DESCRIPTION	BTU PER HOUR LOAD	TOTAL BTU PER HOUR
BR-1	BOILER	500,000 BTUH	500,000 BTUH
EXISTING	EQUIPMENT YARD & KITCHEN	3,452,000 BTUH	3,452,000 BTUH
TOTALS:		3,952,000 BTUH	3,952,000 BTUH
	PLUMBING GI THE EXISTING BUILDING, EXISTING W D AS REQUIRED AND REUSED FOR T	ATER, WASTE AND VEN	T SERVICES ARE TO
PLUMBIN 2. WITHIN T	IG FIXTURES. REFER TO PLUMBING F THE EXISTING BUILDING, SAWCUT AN TIDE NEW AND/OR RELOCATED PLUM	LOOR PLANS FOR POIN TO REMOVE EXISTING FL	ITS OF CONNECTION LOOR SLAB AS REQI
3. IN AREA: UNDERS REMOVA	AND VENT PIPING. PATCH AND REFIN S WHERE THE FLOOR SLAB IS REMOV LAB WASTE AND VENT PIPING WHICH AL. PRIOR TO ANY REMOVAL, FIELD VI ANY EXISTING FIXTURES TO REMAIN (VED, CONTRACTOR SHA I SERVES FIXTURES DE ERIFY THAT LINES TO B	ALL ALSO REMOVE SIGNATED FOR E REMOVED DO NO
4. IN AREA: PLACE A PIPING N NOT NEC	S WHERE THE FLOOR SLAB IS NOT RI NY UNDERSLAB WASTE AND VENT PI IUST BE REMOVED TO ACCOMMODA CESSITATE THEIR REMOVAL, CUT ANI LOOR TO MATCH EXISTING.	EMOVED, CONTRACTOR IPING NO LONGER NEED TE NEW CONSTRUCTION	R SHALL ABANDON I DED, UNLESS THE N. IF NEW WORK DO
	ERIFY EXACT LOCATION, SIZE, DEPTHAL AND CONDITION OF EXISTING WAS		

	GAS E	QUIPME	NT	
QUIPMENT NUMBER	DESCRIPTION	BTU PER HOUR LOAD	TOTAL BTU PER HOUR	TOTAL CFH
-1	BOILER	500,000 BTUH	500,000 BTUH	500 CFH
ISTING	EQUIPMENT YARD & KITCHEN	3,452,000 BTUH	3,452,000 BTUH	3,452 CFH
TALS:		3,952,000 BTUH	3,952,000 BTUH	3,952 CFH

- ARE TO BE RELOCATED INECTION.
- 3 AS REQUIRED) UNDERSLAB
- EMOVE D DO NOT
- ANDON IN SS THE VORK DOES
- CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
- WASTE LINES TO BE RE-USED OR RECONNECTED TO SHALL BE THOROUGHLY RODDED OUT AND FLUSHED TO ENSURE THEY ARE FREE FROM BLOCKAGES.
- CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
- 8. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
- 9. CONTRACTOR TO COORDINATE ALL REMODEL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
- COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
- 11. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS
- CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL
- 13. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL

OTHER OFFICIALS HAVING JURISDICTION.

- THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.
- PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS



BRADLEY KALMANS 04-15-2022

WATER CENTER LEARNING AND RO

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DRAWINGS SHEET TITLE PLUMBING DETAILS, LEGENDS, AND

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