

# Houston Elementary School Safe Entrance Addition

ISD #294 HOUSTON SCHOOLS  
310 S. SHERMAN ST. HOUSTON, MN



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Houston Elementary School Safe Entrance Addition 2025-11441

ALTERNATES	
#	DESCRIPTION
ALTERNATE #1	Alternate #1: Remove glass-block window in the west wall at the south stair and install new window

DESIGN TEAM:			
<b>ARCHITECTURAL:</b>	Widseth 126 E. Superior Street Duluth, MN 55802 Office Phone: (218) 727-8481 Contact: <b>Karl Larsen, Architect</b> Phone: (218) 451-7090	<b>MECHANICAL:</b>	Widseth 704 E. Howard St Hibbing, MN 55746 Office Phone: (218) 263-6868 Contact: <b>Mike Washburn, PE</b> Phone: (218) 274-6052
<b>CIVIL:</b>	Widseth 3777 40th St NW, Suite 200 Rochester, MN 55901 Office Phone: (507) 292-8743 Contact: <b>Vanessa Hines, PE</b> Phone: (507) 206-2136	<b>ELECTRICAL:</b>	Widseth 704 E. Howard St Hibbing, MN 55746 Office Phone: (218) 263-6868 Contact: <b>David Jordan, PE</b> Phone: (218) 274-6006
<b>STRUCTURAL:</b>	Widseth 610 Fillmore St Alexandria, MN 56308 Office Phone: (520) 762-8149 Contact: <b>Ken Rohr, PE</b> Phone: (320) 335-5012		

ABBREVIATIONS			
@	AT	E	EAST
AFF	ABOVE FINISHED FLOOR	EA	EACH
AP	ACCESS PANEL	EF	EACH FACE
A/C	AIR CONDITIONING	EW	EACH WAY
AB	ANCHOR BOLT	ELECT	ELECTRICAL (AL)
ALT	ALTERNATE	EWC	ELECTRIC WATER COOLER
AL	ALUMINUM	EL	ELEVATION
∠	ANGLE	ELEV	ELEVATOR
APX	APPROXIMATE	EQ	EQUAL
ARCH	ARCHITECTURAL	EQP	EQUIPMENT
		EXIST	EXISTING
		EXP	EXPANSION
BSMT	BASEMENT	EB	EXPANSION BOLT
BM	BEAM or BENCHMARK	EJT	EXPANSION JOINT
BRG	BEARING	EXT	EXTERIOR
BRL	BEARING PLATE		
BIT	BITUMINOUS	FB	FACE BRICK
BLK	BLOCK	FOC	FACE OF CONCRETE
BLKG	BLOCKING	FOM	FACE OF MASONRY
BRK	BRICK	FOS	FACE OF STUDS
BLDG	BUILDING	FIN	FINISH
BO	BOTTOM OF	FFE	FINISHED FLOOR ELEVATION
		FRBK	FIRE BRICK
CAB	CABINET	FE	FIRE EXTINGUISHER
CPT	CARPET (ED)	FEC	FIRE EXTINGUISHER CABINET
CSMT	CASEMENT	FP	FIRE PROOF
CI	CAST IRON	FLG	FLASHING
CB	CATCH BASIN	FLR	FLOOR (ING)
CLG	CEILING	FD	FLOOR DRAIN
CL	CENTERLINE	FT	FOOT
CHL	CHANNEL	FTG	FOOTING
CHBD	CHALKBOARD	FND	FOUNDATION
CO	CLEANOUT	FRA	FRESH AIR
CLR	CLEAR	FBO	FURNISHED BY OTHERS
CL	CLOSE	FUR	FURRING
COL	COLUMN	FUT	FUTURE
CONC	CONCRETE		
CMU	CONCRETE MASONRY UNIT	GAL	GALVANIZED
CONST	CONSTRUCTION	GI	GALVANIZED IRON
CONT	CONTINUOUS	GA	GAUGE
CONTR	CONTRACTOR	GC	GENERAL CONTRACTOR
CJT	CONTROL JOINT	GL	GLASS
		GB	GRAB BAR
		GD	GRADE(ING)
DL	DEAD LOAD	GYP BD	GYPSONUM BOARD
DEPT	DEPARTMENT	HDW	HARDWARE
DTL	DETAIL	HDR	HEADER
DIAM	DIAMETER	HTG	HEATING
DIM	DIMENSION	HVAC	HEATING/VENTILATION/AIR CONDITIONING
DPR	DISPENSER	HD	HEAVY DUTY
DR	DOOR	HT	HEIGHT
DH	DOUBLE HUNG	HC	HOLLOW CORE
DN	DOWN	HM	HOLLOW METAL
DS	DOWNSPOUT	HOR	HORIZONTAL
DWG	DRAWING		
DF	DRINKING FOUNTAIN		
		HB	HOSE BIBB
		HWH	HOT WATER HEATER
		HR	HOUR
		ID	INSIDE DIAMETER
		INS	INSULATE (D),(ION),(ING)
		INT	INTERIOR
		IT	INTERIOR
		JT	JOINT
		JST	JOIST
		LB	LAG BOLT
		LAM	LAMINATE (ED)
		LAV	LAVATORY
		LH	LEFT HAND
		PLB	PLASTER
		L	LENGTH
		LT	LIGHT
		LL	LIVE LOAD
		LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
		LVR	LOUVER
		MFR	MANUFACTURER
		MAS	MASONRY
		MO	MASONRY OPENING
		MAT	MATERIAL (S)
		MAX	MAXIMUM
		MECH	MECHANICAL
		MC	MEDICINE CABINET
		MD	MEDIUM
		MBR	MEMBER
		MMB	MEMBRANE
		MTL	METAL
		M-L	MICROLAM
		MIN	MINIMUM
		MIR	MIRROR
		MISC	MISCELLANEOUS
		MLD	MOLDING
		MRCFT	MOISTURE RESISTANT CEILING TILE
		MT	MOUNT (ED), (ING)
		MULL	MULLION
		NOM	NOMINAL
		N	NORTH
		NIC	NOT IN CONTRACT
		NTS	NOT TO SCALE
		ND or #	NUMBER
		OC	ON CENTER
		OPP	OPPOSITE
		OSB	ORIENTED STRAND BOARD
		OD	OUTSIDE DIAMETER
		OA	OVERALL
		OH	OVERHEAD
		PT	PAINT
		PR	PAIR
		PNL	PANEL
		PB	PANIC BAR
		PTD	PAPER TOWEL DISPENSER
		PTR	PAPER TOWEL RECEPTOR
		PAR	PARALLEL
		PBD	PARTICLE BOARD
		PTN	PARTITION
		PVMT	PAVEMENT
		PERF	PERFORATE (ED)
		PERI	PERIMETER
		PLAS	PLASTER
		PLAM	PLASTIC LAMINATE
		PL OR P	PLATE
		PLUMB	PLUMBING
		±	PLUS OR MINUS
		PWD	PLYWOOD
		PT	POINT
		LBS	POUNDS
		PSI	POUNDS PER SQUARE INCH
		PC	PRECAST
		PPF	PREFINISHED
		QT	QUARRY TILE
		RAD	RADIUS
		REFR	REFRIGERATOR
		RE	REINFORCE (D), (ING), (MENT)
		REF	REFERENCE
		REQ'D	REQUIRED
		RA	RETURN AIR
		RVS	REVERSE
		REV	REVISION
		RHW	RIGHT HAND
		ROW	RIGHT OF WAY
		R	RISER
		RD	ROOF DRAIN
		RM	ROOM
		RO	ROUGH OPENING
		SND	SANITARY NAPKIN DISPENSER
		SNR	SANITARY NAPKIN RECEPTOR
		SCH	SCHEDULE
		SEC	SECTION
		SHT	SHEET
		SHTH	SHEATHING
		SH	SIMILAR
		SC	SOLID CORE
		SAB	SOUND ATTENUATING BATT INSULATION
		SP	SOUNDPROOF
		S	SOUTH
		SPK	SPEAKER
		SPEC	SPECIFICATION (S)
		SQ	SQUARE
		SSTL	STAINLESS STEEL
		STD	STANDARD
		STL	STEEL
		SJ	STEEL JOIST
		STO	STORAGE
		STR	STRUCTURAL
		SUS	SUSPENDED
		SYM	SYMMETRICAL
		SYS	SYSTEM
		TKBD	TACK BOARD
		TKS	TACK STRIP
		TEL	TELEPHONE
		TV	TELEVISION
		TZ	TERRAZZO
		THK	THICK (NESS)
		THR	THRESHOLD
		TPTN	TOILET PARTITION
		TPD	TOILET PAPER DISPENSER
		T&G	TONGUE AND GROOVE
		TO	TOP OF
		TOB	TOP OF BLOCK
		TOD	TOP OF DECK
		TOS	TOP OF STEEL
		T	TREAD
		TYP	TYPICAL
		UG	UNDERGROUND
		UNF	UNFINISHED
		UNO	UNLESS NOTED OTHERWISE
		UR	URINAL
		VB	VAPOR BARRIER
		VNR	VENEER
		VERT	VERTICAL
		VEST	VESTIBULE
		VIN	VINYL
		VCT	VINYL COMPOSITE TILE
		WH	WALL HUNG
		WC	WATER CLOSET
		WP	WATERPROOFING
		WWF	WELDED WIRE FABRIC
		W	WEST OR WIDTH, WIDE
		WDW	WINDOW
		WG	WIRED GLASS
		WM	WIRE MESH
		W	WITH
		WO	WITHOUT
		WD	WOOD
		WI	WROUGHT IRON

**TYPICAL MATERIAL HATCH PATTERNS**

	ALUMINUM		EARTH		GLUE-LAMINATE CONSTRUCTION		RIGID INSULATION		PLYWOOD
	BATT INSULATION		EIFS		GRANULAR FILL		SPRAY FOAM INSULATION		SEALANT
	BRICK		EXPANSION JOINT		GROUT		MARBLE		STONE
	CMU/MASONRY		FIRE BRICK		GYPSONUM BOARD		MEMBRANE ROOFING		TILE
	CONCRETE		GLASS		INSULATION BOARD		METAL		WOOD

**TYPICAL SYMBOLS & TAGS**

TYP. SYMBOLS	VIEW REFERENCE LEGEND	STANDARD TAGS
CENTERLINE SYMBOL	BUILDING ELEVATION MARK	CASEWORK TAG
EXIT SYMBOL	INTERIOR ELEVATION MARK	CEILING TAG
GLASS SYMBOL	PHASING LEGEND	KEYED PLAN NOTES NEW & DEMO
TEMPERED GLASS	GRID	DOOR TAGS
DRINKING FOUNTAIN	GRAPHIC SCALE	EXT MATERIAL ID TAG
FIRE EXTINGUISHER CABINET		REVISION TAG
FIRE EXTINGUISHER		ROOM TAGS EXISTING, NEW
TRUE NORTH ARROW		WALL TAGS
		RATED WALL TAG
		WINDOW TAGS



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CODE REVIEW DATA

1. GENERAL INFORMATION

- A. PROJECT NAME: **Houston Elementary School Safe Entrance Addition**
- B. PROJECT LOCATION: **310 S. SHERMAN ST. HOUSTON, MN**
- C. PROJECT DESCRIPTION:
  - a. REMOVAL OF SMALL VESTIBULE ENTRANCE OF EXISTING FACILITY TO FACILITATE CONSTRUCTION OF APPROX. 700 SF ADDITION.
  - b. ADDITION TO BE BUILT WITH STEEL STUDS, STEEL COLLUMNS, BEAM, AND JOISTS. BRICK / STONE EXTERIOR FINISH.
  - c. ADDITION TO INCLUDE NEW SECURE ENTRANCE AND VESTIBULE WITH A RECEPTION AREA AND STUDENT RESOURCE ROOMS
  - d. PROJECT CONSISTS OF NO OCCUPANCY CHANGE
- D. GROSS BUILDING SIZE:
  - \*SEE SCHEDULE "1D - GROSS BUILDING AREAS" BELOW

1D - GROSS BUILDING AREAS		
NAME	LEVEL	AREA
BASEMENT LEVEL	BASEMENT LEVEL	8,804 SF
FIRST LEVEL	GYM/ENTRY LEVEL	20,926 SF
SECOND LEVEL	SECOND LEVEL	15,723 SF
TOTAL SF:		45,453 SF

2. APPLICABLE CODES

- A. MINNESOTA STATE BUILDING CODE 2020
- B. MINNESOTA CONSERVATION CODE FOR EXISTING BUILDINGS 2020
- C. MINNESOTA ENERGY CODE 2024
- D. MINNESOTA ACCESSIBILITY CODE 2020
- E. MINNESOTA STATE FIRE CODE 2020
- F. MINNESOTA MECHANICAL AND FUEL GAS CODES 2020
- G. MINNESOTA STATE PLUMBING CODE 2020
- H. NATIONAL ELECTRICAL CODE 2023
- I. NFPA 72

3. USE AND OCCUPANCY CLASSIFICATION (MN BC CHAPTER 3)

- A. OCCUPANCY CLASSIFICATION: (302-312, 508, 509): **E**

5. GENERAL BUILDING HEIGHTS AND AREAS (IBC CHAPTER 5)

- A. BUILDING HEIGHT (GROUP E)
 

ALLOWABLE	PROPOSED
TABLE 504.2 ALLOWABLE HEIGHT	<b>75'</b>
TABLE 504.4 ALLOWABLE STORIES	<b>3</b>
- B. BUILDING AREAS (GROUP E)
 

ALLOWABLE	PROPOSED
TOTAL AREA (EQUATION 5-2) $A_a = [At + (Ns \times If)] \times Sa$	
BUILDING: $[43,500 + (26,500 \times 0.75)] \times 2 =$	<b>126,750</b>
AREA PER FLOOR (EQ. 5-2) $A_a = [At + (Ns \times If)] \times 1$	
BUILDING: $[43,500 + (26,500 \times 0.75)] \times 1 =$	<b>63,375</b>
FRONTAGE INCREASE (EQ. 5-4) $If = [F/P \times 0.25] \times W/30$	
BUILDING: $[(776 / 776) \times 0.25] \times 30/30 =$	<b>0.75</b>

6. TYPE OF CONSTRUCTION (IBC CHAPTER 6)

- A. TYPE **II-B**

BUILDING ELEMENT (601)	FIRE RESISTANCE
• PRIMARY STRUCTURAL FRAME	<b>0 HR</b>
• EXTERIOR BEARING WALLS	<b>1 HR</b>
• INTERIOR BEARING WALLS	<b>0 HR</b>
• INT. NON-BEARING WALLS/PARTITIONS	<b>0 HR</b>
• EXT. NON-BEARING WALLS/PARTITIONS	<b>1 HR</b>
• INT. NON-BEARING WALLS/PARTITIONS	<b>0 HR</b>
• FLOOR CONSTR. & SECONDARY MEMBERS	<b>0 HR</b>
• ROOF CONSTR. & SECONDARY MEMBERS	<b>0 HR</b>

7. FIRE AND SMOKE PROTECTION FEATURES (IBC CHAPTER 7)

- A. BUILDING ELEMENT
 

BUILDING ELEMENT	FIRE RESISTANCE
• FIRE WALLS (TABLE 706.4, NOTE a)	<b>3 HR</b>
• FIRE BARRIERS (707)	<b>1 HR</b>
• EXIT STAIR / RAMP (1023.1)	SEE SECTION 10
• EXIT ACCESS STAIR / RAMP (713.4)	<b>2 HR</b>
• HORIZONTAL EXIT (1026.1)	<b>2 HR</b>
• FIRE AREAS (707.3.10)	<b>2 HR</b>
• FIRE PARTITIONS (708)	<b>0 HR</b>
• CORRIDOR WALLS (1020.1)	<b>1 HR</b>
• SMOKE BARRIERS (709)	<b>0 HR</b>
• SMOKE PARTITIONS (710)	<b>0 HR</b>
- B. VERTICAL OPENINGS (712)
  - TWO-STORY OPENINGS (712.1.9) ALLOWED IF SEPARATED FROM OTHER OPENINGS ON THE FLOOR BY SHAFT CONSTRUCTION IN ACCORDANCE WITH 1019
  - EXIT ACCESS STAIRWAYS (712.1.12)

8. INTERIOR FINISHES (IBC CHAPTER 8)

- A. GROUP **E**

BUILDING ELEMENT	FINISH CLASSIFICATION
• EXIT ENCLOSURE / EXIT PASSAGEWAYS (803.13)	<b>C</b>
• CORRIDORS: GROUP <b>E</b> (803.13)	<b>C</b>
• ROOMS AND ENCLOSED SPACES (803.13)	<b>C</b>
• FLOOR FINISHES (804.4)	<b>1</b>
- B. INTERIOR WALL AND CEILING FINISH MATERIALS
  - CLASS A = 0-25 FLAME SPREAD INDEX; 0-450 SMOKE-DEVELOPED INDEX
  - CLASS B = 26-75 FLAME SPREAD INDEX; 0-450 SMOKE-DEVELOPED INDEX
  - CLASS C = 76-200 FLAME SPREAD INDEX; 0-450 SMOKE-DEVELOPED INDEX

9. FIRE PROTECTION SYSTEMS (IBC CHAPTER 9)

- A. SPRINKLER SYSTEM (903)
  - AUTOMATIC SPRINKLER SYSTEM PER 903.2.3
- B. PORTABLE FIRE EXTINGUISHERS (906)
  - REQUIRED LOCATIONS (IFC 906.1, ETC.)
    - EACH CLASSROOM
    - WITHIN 30' DISTANCE OF TRAVEL FROM COMMERCIAL COOKING EQUIPMENT
    - IN AREAS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED, USED OR DISPENSED.
    - ON EACH FLOOR UNDER CONSTRUCTION.
    - WHERE REQUIRED BY IFC
    - SPECIAL-HAZARD AREAS
- C. CLASS A FIRE HAZARDS (906.3.1)
  - MINIMUM SIZE: **2-A**
  - MAX AREA PER EXTINGUISHER: **3,000 SF**
  - MAX FLOOR AREA FOR EXTINGUISHER: **11,250 SF**
  - MAX TRAVEL DISTANCE TO EXTINGUISHER: **75 FT**
- D. FIRE ALARM AND DETECTION (907)
  - REQUIRED LOCATIONS (907.2):
    - A MANUAL FIRE ALARM SYSTEM THAT INITIATES THE OCCUPANT NOTIFICATION SIGNAL UTILIZING AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM MEETING THE REQUIREMENTS OF SECTION 907.5.2.2 AND INSTALLED IN ACCORDANCE WITH SECTION 907.6 SHALL BE INSTALLED IN GROUP E OCCUPANCIES. WHERE AUTOMATIC SPRINKLER SYSTEMS OR SMOKE DETECTORS ARE INSTALLED, SUCH SYSTEMS OR DETECTORS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.**

D. FIRE DEPARTMENT CONNECTIONS (912)

- REQUIREMENTS: BETWEEN 18" AND 48" ABOVE GRADE

10. MEANS OF EGRESS (IBC CHAPTER 10)

- A. CALCULATED OCCUPANT LOAD (1004)
  - \*SEE SCHEDULE "10 - OCCUPANT LOADS" BELOW

10A - OCCUPANT LOADS (1004.5)				
FUNCTION OF SPACE	AREA	OCC. LOAD FACTOR (1004.5)	# OF OCC.	
Accessory storage areas, mechanical	2,199.44 SF	300 SF	7.3	
Assembly - without fixed seats - Concentrated (chairs only - not fixed)	2,560 SF	7 SF	365.7	
Assembly - without fixed seats - Standing Space	1,115.61 SF	5 SF	223.1	
Assembly - without fixed seats - Unconcentrated (tables and chairs)	1,293.13 SF	15 SF	86.2	
Assembly - with fixed seats (See Section 1004.6)			312	
Business areas	1,928.17 SF	150 SF	12.9	
Educational - classroom area	16,181.79 SF	20 SF	809.1	
Kitchens, commercial	562.72 SF	200 SF	2.8	
Library - Stack area	1,815.14 SF	100 SF	18.2	
Grand total	27,656 SF		1837	

- B. MEANS OF EGRESS SIZING (1005.3.1)
 

COMPONENT	REQUIRED	PROVIDED
STAIRWAYS	<b>(0.3 inch / OCC)</b>	<b>*SEE SCHEDULE "10A/10B - OCCUPANT LOADS" BELOW</b>
• DOORS - SEE LIFE SAFETY PLAN FOR REQUIRED/PROVIDED.		

10B - DOOR EXIT CAPACITY						
EGRESS EXIT #	DOOR #	## OCC	REQUIRED		PROVIDED	
			SPRINKLED	NON-SPRINKLED	WIDTH	CLEAR WIDTH
EXIT #3	130	466	69.9	93.2	72"	70"
EXIT #4	137	67	10.05	13.4	36"	34"
EXIT #5	145	489	73.35	97.8	36"	34"
EXIT #6	193	479	71.85	95.8	70"	68"

- C. NUMBER OF EXITS / EXIT ACCESS (1006)
 

COMPONENT	REQUIRED	PROVIDED
• FIRST FLOOR	<b>5</b>	<b>5</b>
• SECOND FLOOR	<b>2</b>	<b>2</b>

10C - NUMBER OF EXITS (1006.2.1)				
ROOM INFO			NUMBER OF EXITS (1006.2.1)	
#	NAME	# OCC	MAX. OCC. LOAD (1006.2.1)	2 EXITS REQ'D
91	STAGE	223.1	49	Yes
92	GYM	365.7	49	Yes
B1	LUNCH ROOM	86.2	49	Yes
K1	CLASSROOM	50.5	49	Yes
K2	CLASSROOM	66.6	49	Yes
Grand total		792.1		

- D. EXIT / EXIT ACCESS CONFIGURATION (1007)
  - MINIMUM 2 EXITS REQUIRED SEPARATED BY MINIMUM 1/2 DIAGONAL
  - EXCEPTION: MINIMUM 1/3 WHEN COMPLIANT SPRINKLER SYSTEM IS APPROVED

- E. ACCESSIBLE MEANS OF EGRESS (1009)
  - NUMBER OF ACCESSIBLE MEANS: AT LEAST TWO FROM EACH STORY
  - STAIRWAY WIDTH: **4'**
  - AREA OF REFUGE: **NOT REQUIRED**

- F. DOORS (1010)
  - SIZE (1010.1.1):
  - SWING (1010.1.2):
  - EDUCATION LOCKING (1010.1.4.4):
  - LANDINGS (1010.1.6):
  - ARRANGEMENT (1010.1.8):
  - PANIC / FIRE EXIT HARDWARE (1010.1.10):

- G. STAIRWAYS (1011)
  - WIDTH (1011.2):
  - LANDINGS (1011.6):
  - HANDRAILS (1011.1.1):
  - GUARDS (1011.13 / 1015):

- H. RAMPS (1012)
  - SLOPE (1012.2):
  - VERTICAL RISE (1012.4):
  - WIDTH (1012.5.1):
  - LANDINGS (1012.6):
  - HANDRAILS (1012.8):
  - GUARDS (1012.9 / 1015):

- I. EXIT SIGNS (1013)

- J. EXIT ACCESS (1016)

- K. EXIT ACCESS TRAVEL DISTANCE (1017)
  - DISTANCE (1017.2):
  - EXIT ACCESS STAIRWAYS (1017.3.1):

- L. AISLES (1018)
  - WIDTH (1018.2.2):

- M. EXIT ACCESS STAIRWAYS AND RAMPS (1019)

- N. CORRIDORS (1020)
  - FIRE RESISTANCE (1020.1):
  - WIDTH (1020.2):

- DEAD ENDS (1020.4)

- O. EXIT STAIRWAYS (1023)
  - TERMINATION (1023.3):

- P. HORIZONTAL EXITS (1026)
  - NUMBER (1026.1):
  - SEPARATION (1026.2):

- Q. EXIT DISCHARGE (1028)
  - GENERAL (1028.1)

- R. ASSEMBLY (1029)
  - MAIN EXIT (1029.2):
  - OTHER EXITS (1029.3):
  - IF NO MAIN EXIT:

11. ACCESSIBILITY

- A. EXEMPT SPACES (1103.2.14):

- B. CONNECTED SPACES (1104.3):

- C. MULTI-LEVEL BUILDINGS (1104.4):

- D. LOCATION (1104.5):

- E. PUBLIC ENTRANCES (1105.1):

- F. ACCESSIBLE PARKING SPACES (1106):

- G. PASSENGER LOADING ZONES (1106.7):

- H. ASSEMBLY AREA SEATING (1108.2):

- I. TOILET AND BATHING FACILITIES (1109.2):
  - ACCESSIBLE FIXTURES:
    - ≥ 2 TOILET COMPARTMENTS IN A ROOM:
    - ACCESSIBLE LAVATORIES:
      - ≥ 5% OF LAVATORIES IN A TOILET ROOM
      - ≥ 6 LAVATORIES IN A TOILET ROOM:

- J. DRINKING FOUNTAINS (1109.5):

- K. ELEVATORS (1109.7):

- L. STORAGE (1109.9):

- M. SIGNAGE (1110):

12. PLUMBING FIXTURES COUNT\* (IBC CHAPTER 29)

- A. PLUMBING FIXTURES

- B. COMMENTARY

32" MIN. CLEAR WIDTH / 48" MAX. DOOR LEAF  
 DIRECTION OF TRAVEL WHERE ≥ 50 OCCUPANTS  
 CLASSROOMS, OFFICES, AND OCCUPIED ROOMS PERMITTED TO LOCK TO KEEP  
 INTRUDERS FROM ENTERING.  
 50 OCC OR MORE = DOOR SHALL NOT REDUCE TO  
 1/2" REQ'D WIDTH 44" MIN. LENGTH IN DIRECTION OF TRAVEL  
 48" MIN. BETWEEN DOORS / DOOR SWINGS IN SERIES  
 ROOMS / SPACES WITH ≥ 50 OCCUPANTS;  
 ELECTRICAL ROOMS W/ EQUIP. ≥ 1,200A

BASED ON CAPACITY, BUT ≥ 44"  
 LENGTH = LESSER OF WIDTH OF STAIRWAY OR 48"  
 REQUIRED ON BOTH SIDES OF STAIRWAY  
 WHERE OPEN SIDE > 30" ABOVE SURFACE BELOW

1/12 MAX.  
 30" MAX.  
 BASED ON CAPACITY, BUT ≥ CORRIDOR WIDTH AND 36"  
 WIDTH ≥ WIDTH OF RAMP;  
 LENGTH ≥ 60"  
 REQUIRED ON BOTH SIDES WHERE RISE > 6"  
 WHERE OPEN SIDE > 30" ABOVE SURFACE BELOW

REQUIRED

ALLOWED WHERE ACCESSORY TO ONE ANOTHER,  
 EXCEPT THROUGH KITCHENS, STORAGE ROOMS, ETC.

**250'**  
 DISTANCE ON STAIRWAYS OR RAMPS SHALL BE INCLUDED

36" MIN.

**0 HR**

SEE SECTION 7  
 BASED ON CAPACITY, <X>  
 24" AT MECH/ELEC EQUIPMENT  
 36" AT OCCUPANT LOADS < 50  
 44" WHERE NOT LISTED ABOVE  
 72" AT GROUP E WITH CORRIDOR OCCUPANT LOAD GREAT THAN 100  
 NON-SPRINKLERED = 20 FEET  
 SPRINKLERED = 50 FEET

EXIT DISCHARGE OR PUBLIC WAY

< 1/2 OF EXITS  
**3 HR**

**EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING.  
 THE EXIT DISCHARGE SHALL BE AT GRADE OR SHALL PROVIDE A DIRECT  
 PATH OF EGRESS TRAVEL TO GRADE. THE EXIT DISCHARGE SHALL NOT  
 REENTER A BUILDING.**

ACCOMMODATE > 50% OF OCC. LOAD  
 COMBINATION ACCOMMODATES > 50% OF OCC. LOAD  
 COMBINATION ACCOMMODATES > 100% OF OCC. LOAD

(IBC CHAPTER 11 / ANSI A117.1-2009)

EQUIPMENT SPACES, WALK-IN COOLERS / FREEZERS

ANY ACCESSIBLE SPACE SHALL BE CONNECTED BY AN ACCESSIBLE ROUTE

AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH LEVEL

ACCESSIBLE ROUTES SHALL BE THE SHORTEST ROUTE POSSIBLE AND  
 COINCIDE WITH A PRIMARY USE GENERAL CIRCULATION PATH

AT LEAST 60% OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE

FOR EVERY 6 PROVIDED: 1 SHALL BE VAN-ACCESSIBLE

≥ 1 ACCESSIBLE ZONE PER 100 LINEAR FEET  
 ≥ 1 ACCESSIBLE BUS BOARDING SPACE

SHALL CONNECT TO AN ACCESSIBLE ROUTE;

EACH TOILET ROOM SHALL BE ACCESSIBLE;  
 ≥ 1 OF EACH FIXTURE IN EACH TOILET ROOM  
 ≥ 1 SHALL BE AMBULATORY-ACCESSIBLE  
 ≥ 5% OF LAVATORIES IN A TOILET ROOM  
 ≥ 1 SHALL HAVE EXTENDED REACH RANGES

≥ 50% FOR WHEELCHAIR ACCESS;  
 ≥ 50% FOR STANDING PERSONS

ELEVATORS SHALL BE ACCESSIBLE

≥ 5% OF STORAGE ELEMENTS (CABINETS, COAT HOOKS, ETC.)  
 IN EACH AREA SHALL BE ACCESSIBLE

REQUIRED; SHALL COMPLY WITH ICC A117.1

PROVIDED (EXISTING):  
 WC - 22 EXISTING  
 LAV - 15 EXISTING

1. MINIMAL CHANGE WITH ADDITION - MINIMAL CHANGE TO OCCUPANCY LOAD.  
 2. OVERALL FIXTURE COUNT REMAINS UNCHANGED.



DATE	REV#	REVISIONS DESCRIPTION

CODE REVIEW KEY			
E IIB	BUILDING CODE OCCUPANCY TYPE BUILDING CODE CONSTRUCTION TYPE		
	MAX. EXIT TRAVEL DISTANCE = 'XX'-'XX'		
	MAX. COMMON PATH OF EGRESS = 'XX'-'XX'		
	FIRE/SMOKE RESISTIVE PARTITION		
	RATED CMU WALL		
	EXISTING FIRE/SMOKE RESISTIVE PARTITION / CMU WALL		
*SEE PLAN FOR ACTUAL RATINGS			
REQUIRED ASSEMBLY RATING	MINIMUM OPENING PROTECTION ASSEMBLY		
1	ONE HOUR RATED		
2	TWO HOUR RATED		
3	THREE HOUR RATED		
4	FOUR HOUR RATED		
TYPE OF ASSEMBLY			
B	FIRE BARRIER	P	FIRE PARTITION
E	EXISTING AND RATED	S	SMOKE BARRIER/COMPARTMENT
W	FIRE WALL	X	SMOKE TIGHT
	NEW/EXISTING VERTICAL OR HORIZONTAL EXIT ENCLOSURE		
	NEW/EXISTING PATH/EGRESS CORRIDOR		



**LEGEND**

- Accessory storage areas, mechanical
- Assembly - without fixed seats - Unconcentrated (tables and chairs)
- Business areas
- Educational - classroom area
- Kitchens, commercial
- Library - Stack area
- New/Existing Path of Egress Corridor

1 Basement Level Life Safety Plan  
3/32" = 1'-0"



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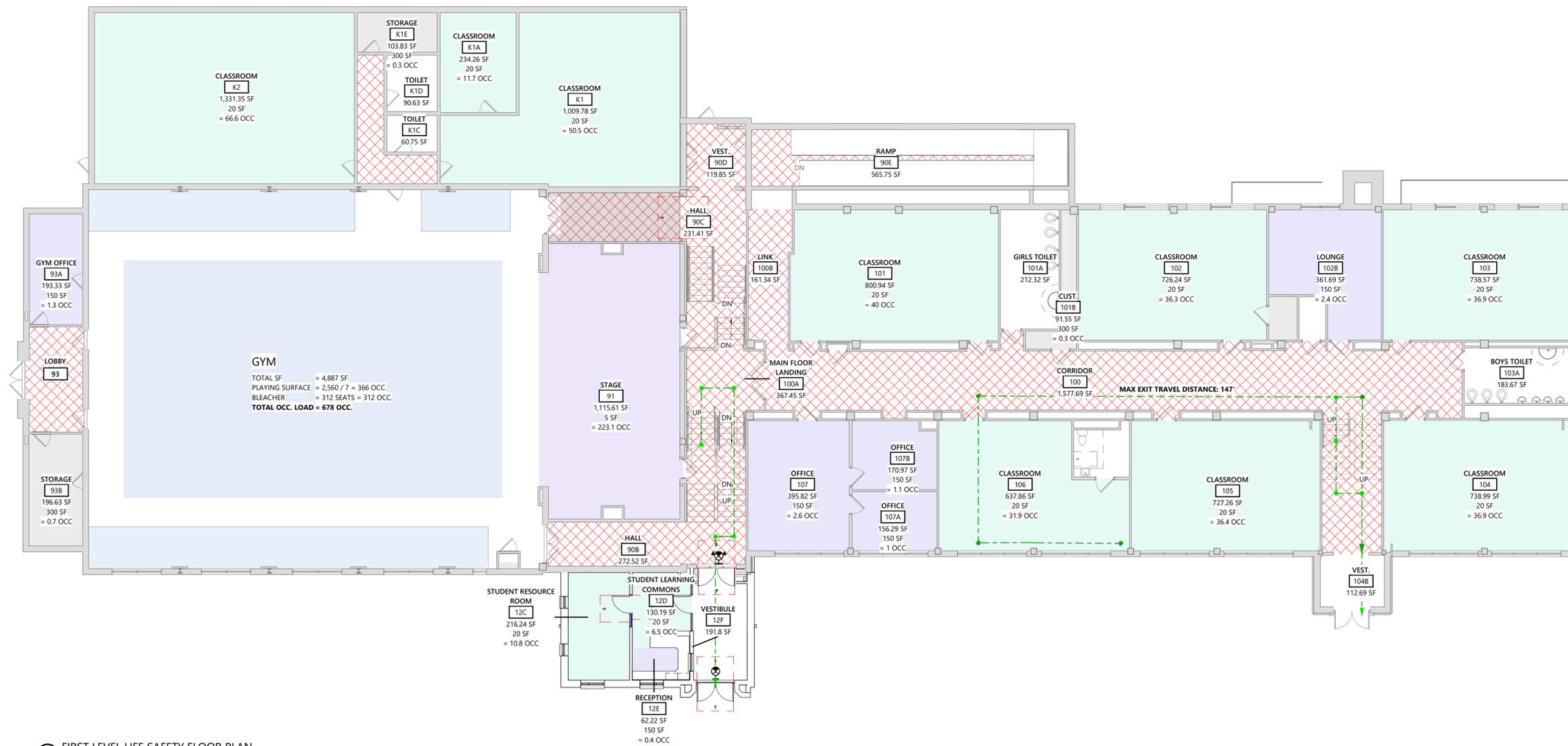
Karl Larsen LIC #: 54398 DATE: 02-12-26

DATE	REV#	REVISIONS DESCRIPTION

Houston Elementary School Safe Entrance Addition  
BASEMENT LEVEL LIFE SAFETY PLAN

LS2.10  
PROJECT #: 2025-11441

CODE REVIEW KEY			
E	BUILDING CODE OCCUPANCY TYPE		
IB	BUILDING CODE CONSTRUCTION TYPE		
	MAX. EXIT TRAVEL DISTANCE = 'XX'-'XX'		
	MAX. COMMON PATH OF EGRESS = 'XX'-'XX' (WHERE REQUIRED)		
	FIRE/SMOKE RESISTIVE PARTITION		
	RATED CMU WALL		
	EXISTING FIRE/SMOKE RESISTIVE PARTITION / CMU WALL		
*SEE PLAN FOR ACTUAL RATINGS			
REQUIRED ASSEMBLY RATING	MINIMUM OPENING PROTECTION ASSEMBLY		
1	ONE HOUR RATED		
2	TWO HOUR RATED		
3	THREE HOUR RATED		
4	FOUR HOUR RATED		
TYPE OF ASSEMBLY			
B	FIRE BARRIER	P	FIRE PARTITION
E	EXISTING AND RATED	S	SMOKE BARRIER/COMPARTMENT
W	FIRE WALL	X	SMOKE TIGHT
	NEW/EXISTING VERTICAL OR HORIZONTAL EXIT ENCLOSURE		
	NEW/EXISTING PATH/EGRESS CORRIDOR		



- LEGEND**
- Accessory storage areas, mechanical
  - Assembly - fixed seats
  - Assembly - without fixed seats - Concentrated (chairs only - not fixed)
  - Assembly - without fixed seats - Standing Space
  - Business areas
  - Educational - classroom area
  - New/Existing Path of Egress Corridor

1 FIRST LEVEL LIFE SAFETY FLOOR PLAN  
3/32" = 1'-0"



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*Karl Larsen*  
Karl Larsen LIC #: 54398 DATE: 02-12-26

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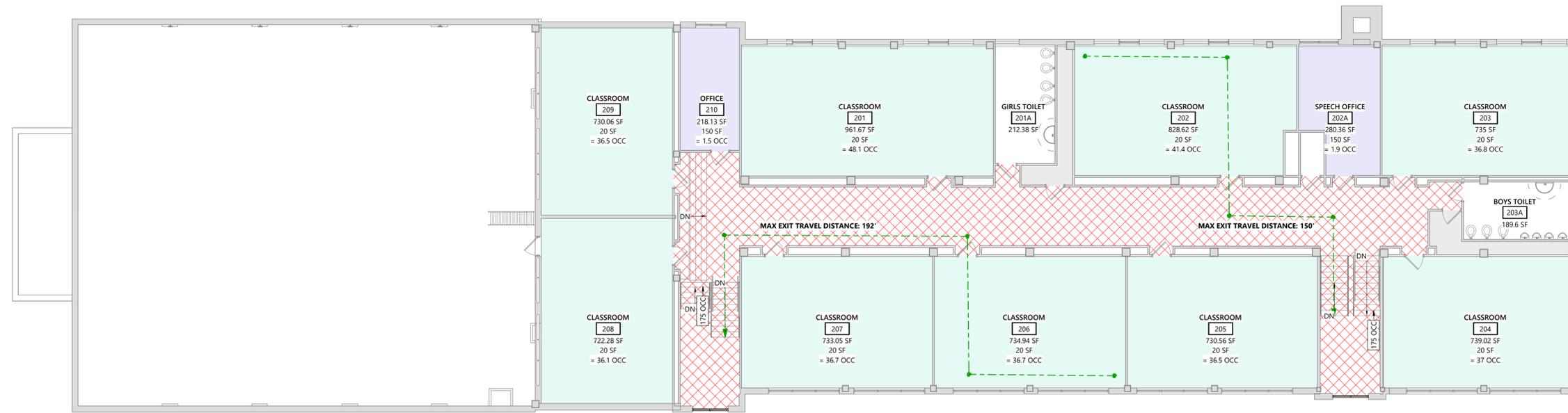
Houston Elementary School Safe Entrance Addition

FIRST LEVEL LIFE SAFETY FLOOR PLAN

LS2.20

PROJECT #: 2025-11441

CODE REVIEW KEY			
E IIB	BUILDING CODE OCCUPANCY TYPE BUILDING CODE CONSTRUCTION TYPE		
	MAX. EXIT TRAVEL DISTANCE = 'XX'-'XX'		
	MAX. COMMON PATH OF EGRESS = 'XX'-'XX'		
	FIRE/SMOKE RESISTIVE PARTITION		
	RATED CMU WALL		
	EXISTING FIRE/SMOKE RESISTIVE PARTITION / CMU WALL		
*SEE PLAN FOR ACTUAL RATINGS			
REQUIRED ASSEMBLY RATING	MINIMUM OPENING PROTECTION ASSEMBLY		
1	ONE HOUR RATED		
2	TWO HOUR RATED		
3	THREE HOUR RATED		
4	FOUR HOUR RATED		
TYPE OF ASSEMBLY			
B	FIRE BARRIER	P	FIRE PARTITION
E	EXISTING AND RATED	S	SMOKE BARRIER/COMPARTMENT
W	FIRE WALL	X	SMOKE TIGHT
	NEW/EXISTING VERTICAL OR HORIZONTAL EXIT ENCLOSURE		
	NEW/EXISTING PATH/EGRESS CORRIDOR		



**LEGEND**

- Accessory storage areas, mechanical
- Business areas
- Educational - classroom area
- New/Existing Path of Egress Corridor

1 SECOND LEVEL LIFE SAFETY FLOOR PLAN  
3/32" = 1'-0"



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Karl Larsen LIC #: 54398 DATE: 02-12-26

DATE	REV#	REVISIONS DESCRIPTION

Houston Elementary School Safe Entrance Addition

SECOND LEVEL LIFE SAFETY FLOOR PLAN

LS2.30

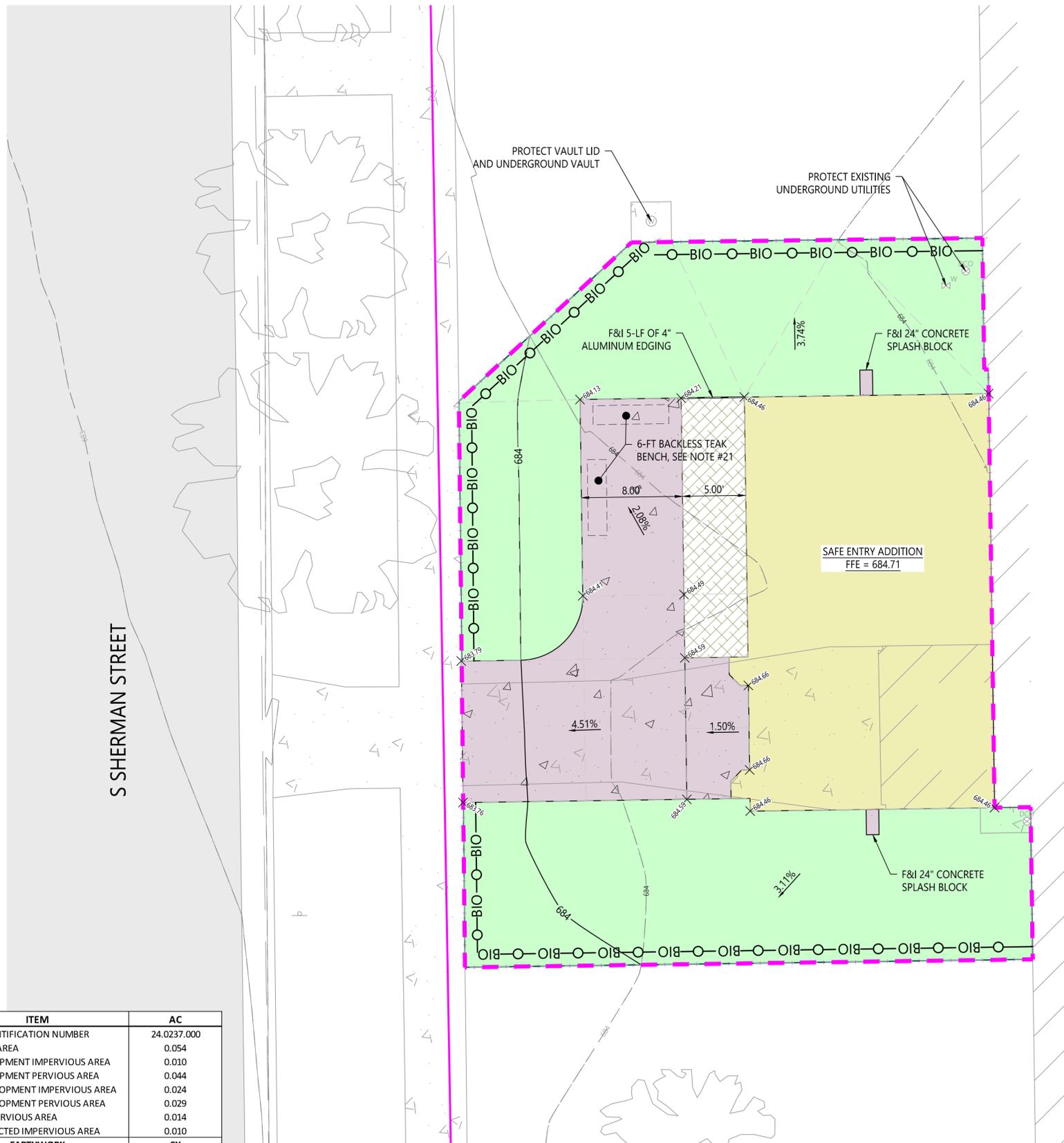
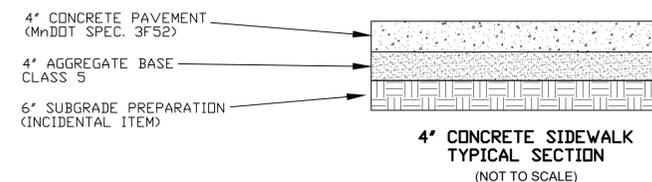
PROJECT #: 2025-11441

- SITE, GRADING AND LANDSCAPE NOTES:**
- 1) AN NPDES PERMIT SHALL BE APPLIED FOR BY THE OWNER AND CONTRACTOR IF DISTURBED AREA EXCEEDS 1 ACRE. AN NPDES PERMIT WILL NOT BE REQUIRED FOR THIS PROJECT.
  - 2) THE STORM WATER RUNOFF FROM THE IMPACTED AREA WILL DRAIN OVERLAND IN THE LANDSCAPED/TURF LAWN AREA. SITE RUNOFF WILL DRAIN TO THE EXISTING PUBLIC STORM SEWER IN S SHERMAN STREET. IT EVENTUALLY DISCHARGES TO THE ROOT RIVER, AN IMPAIRED WATER.
  - 3) CONTRACTOR IS RESPONSIBLE FOR ALL SITE CLEARING, GRUBBING AND REMOVALS.
  - 4) ALL PROPOSED ELEVATIONS ARE TO TOP OF PAVING OR FINISHED GRADE, UNLESS NOTED OTHERWISE. CURB SPOT ELEVATIONS ARE AT THE FLOWLINE UNLESS OTHERWISE NOTED. PROPOSED ELEVATIONS ARE INTENDED TO PROVIDE POSITIVE DRAINAGE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE REQUIRED ELEVATIONS, WHICH WILL PROMOTE POSITIVE DRAINAGE THROUGHOUT THE PROJECT SITE.
  - 5) THE SITE HAS NOT NECESSARILY BEEN DESIGNED TO BALANCE THE ON-SITE MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EARTHWORK QUANTITY ON THIS SITE. EXCESS MATERIAL, IF ANY SHALL BE DISPOSED OF OFF-SITE. THE CONTRACTOR SHALL IMPORT SUITABLE MATERIAL AS NEEDED.
  - 6) ENGINEERED FILL - CONTRACTOR TO PLACE AND COMPACT SUITABLE MATERIALS TO AT LEAST 95 PERCENT OF MAXIMUM STANDARD PROCTOR DENSITY, AS SPECIFIED. UNSUITABLE SOILS SHALL BE REMOVED FROM THE SUPPORT ZONE OF THE BUILDING PRIOR TO PLACING ENGINEERED FILL. SEE SECTION E.1.d OF CHOSEN VALLEY TESTING "DESIGN PHASE GEOTECHNICAL EVALUATION" REPORT, DATED JANUARY 6, 2026.
  - 7) THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE ENGINEERING DEPARTMENTS AND UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING UTILITIES.
  - 8) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
  - 9) SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER OR THE DEVELOPER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
  - 10) THE CONTRACTOR SHALL PROTECT AND STABILIZE EXISTING UTILITY POLES DURING CONSTRUCTION ACTIVITIES.
  - 11) THE OWNER IS AWARE THAT SOME GRADES ON THE SITE ARE LESS THAN 2.0%. LOCALIZED PONDING MAY OCCUR AND THEY ACCEPT ALL IMPACT.
  - 12) LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
  - 13) UNLESS OTHERWISE NOTED, FINISH GRADE OF PLANTING AREAS SHALL BE 2" BELOW ADJACENT PAVING. TAPER 3" DEPTH MULCH TOP DRESSING TO 1/2" BELOW ADJACENT PAVING (1 1/2" DEPTH) WITHIN 2" OF PAVING.
  - 14) ALL EXISTING TREES, SHRUBS, VINES AND GROUND COVERS TO REMAIN SHALL BE PROTECTED. ANY DAMAGE CAUSED BY CONTRACTOR'S WORK OR NEGLIGENCE SHALL BE REPLACED OR REPAIRED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE OWNER.
  - 15) CONTRACTOR SHALL PROTECT EXISTING ROADS, CURB AND CUTTER, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION. DAMAGE TO THESE ITEM SHALL BE REPAIRED AT NO COST TO OWNER.
  - 16) CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT MATERIALS ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BEGINNING OF WORK.
  - 17) LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE OF NEWLY INSTALLED MATERIALS UNTIL TIME OF SUBSTANTIAL COMPLETION. REPAIR OF ACTS OF VANDALISM OR DAMAGE WHICH MAY HAVE OCCURRED PRIOR TO SUBSTANTIAL COMPLETION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - 18) TREES AND SHRUBS OUTSIDE GRADING LIMITS SHALL REMAIN.
  - 19) PERMANENT STABILIZATION - ALL DISTURBED PERVIOUS AREAS SHALL BE SEEDED UNLESS OTHERWISE NOTED OR SHOWN IN PLANS. ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. A MINIMUM DEPTH OF FOUR (4) INCHES OF TOPSOIL IS REQUIRED FOR ALL PERMANENT VEGETATIVE COVER. PERMANENT EROSION CONTROL WILL BE ACHIEVED BY USING SEED MIXTURE "RT" AT A RATE OF 200 LBS/AC, TYPE 1 FERTILIZER WITH A COMPOSITION OF 0-10-20 AT A RATE OF 350 LBS/AC, AND MULCH MATERIAL TYPE I AT 2 TONS / ACRE ON ALL DISTURBED CONSTRUCTION AREAS.
  - 20) ALL OPEN AREAS NOT IDENTIFIED AS SHREDDED HARDWOOD MULCH ARE TURF AREAS AND SHALL BE INSTALLED PER MNDOT METHOD 5. HYDROSEEDING USING LOW MAINTENANCE TURF "RT".
  - 21) FREE STANDING TEAK BENCHES, MANUFACTURER: COUNTRY CASUAL TEAK [www.countrycasualteak.com](http://www.countrycasualteak.com), MATERIAL: SOLID GRADE A TEAK (TECTONA GRANDIS). A DOURABLE HARDWOOD THAT PERFORMES BEAUTIFULLY OUTDOORS IN ANY CLIMATE. ITS HIGH OIL AND RUBBER CONTENT FORMS NATURAL BARRIERS AGAINST THE ELEMENTS, GIVING TEAK WEATHERPROOF QUALITIES WITHOUT SEALERS, FINISHES OR OILS. PRODUCT: STRATA 6 FT. BACKLESS BENCH.

- PROPERTY FEATURES**
- RIGHT-OF-WAY LINE
  - EASEMENT LINE
  - BOUNDARY LINE
  - SETBACK LINE
- PROPOSED FEATURES**
- BUILDING
  - CONCRETE SURFACE
  - SEED MIXTURE RT
  - SHREDDED HARDWOOD MULCH
  - 1230 MAJOR CONTOURS (WITH LABEL)
  - 1234 MINOR CONTOURS (WITH LABEL)
  - 1234.56 SPOT ELEVATION
  - +1.23% SLOPE - PERCENT
  - 1:2 SLOPE - RISE : RUN
  - DISTURBANCE LIMITS
  - BIO ROLL
- EXISTING FEATURES**
- 1230 MAJOR CONTOURS
  - 1234 MINOR CONTOURS
  - BITUMINOUS SURFACE
  - CONCRETE SURFACE
  - CURB & GUTTER
  - BUILDING
  - WS WATER SERVICE LINE
  - DCO STORM SEWER CLEANOUT
  - W WATER MAIN VALVE
  - W WATER MANHOLE
  - YARD LIGHT
  - SIGN - SINGLE
  - TREE - DECIDUOUS
  - FLAG POLE

**GROUND COVER SCHEDULE**

SYMBOL	DESCRIPTION	QTY
	SHREDDED HARDWOOD MULCH	103 SF
	HYDROSEEDING	131 SY



ITEM	AC
PARCEL IDENTIFICATION NUMBER	24.0237.000
DISTURBED AREA	0.054
PRE-DEVELOPMENT IMPERVIOUS AREA	0.010
PRE-DEVELOPMENT PERVIOUS AREA	0.044
POST-DEVELOPMENT IMPERVIOUS AREA	0.024
POST-DEVELOPMENT PERVIOUS AREA	0.029
ADDED IMPERVIOUS AREA	0.014
RECONSTRUCTED IMPERVIOUS AREA	0.010
<b>EARTHWORK</b>	<b>CY</b>
CUT	0.51
FILL	18.89
NET (FILL)	18.38

EARTHWORK QUANTITIES ARE BASED UPON THE COMPARISON OF THE EXISTING AND PROPOSED FINISHED SURFACES. THE BUILDING AREA IS EXCLUDED FROM THIS CALCULATION. FOR PERMITTING PURPOSES ONLY - CONTRACTOR SHALL NOT RELY ON QUANTITY FOR BIDDING.

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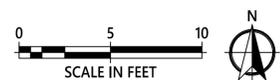
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LIC. NO.: 52699  
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DATE	REV#	REVISIONS DESCRIPTION

**HOUSTON ELEMENTARY SCHOOL SAFE ENTRY**

SITE PLAN

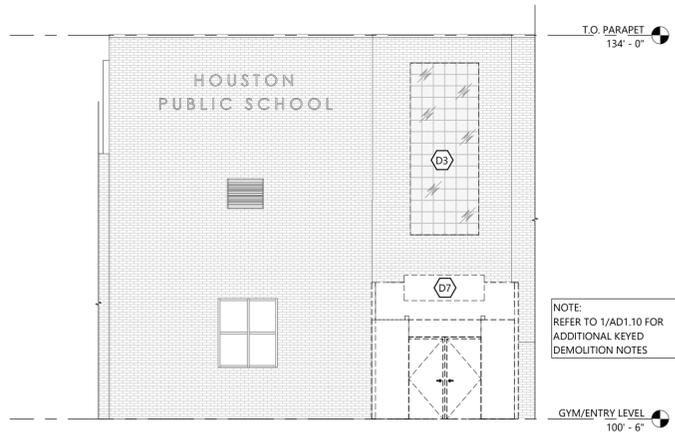


**C1.10**

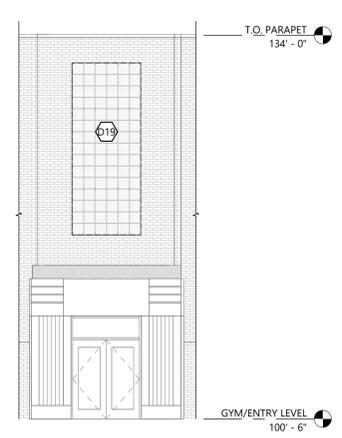
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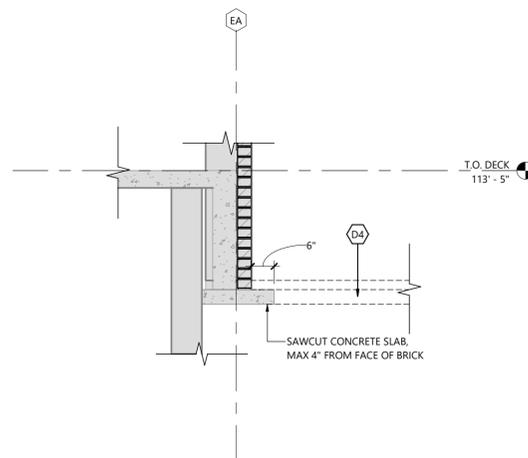
- GENERAL DEMOLITION PLAN NOTES**
- VERIFY EXISTING CONDITIONS AND DIMENSIONS. COORDINATE THE EXTENT OF DEMOLITION WORK AND EXISTING WORK TO REMAIN WITH NEW FLOOR PLAN AND PROJECT SITE PRIOR TO PRICING, FABRICATION, AND INSTALLATION. NOTIFY ARCHITECTS OF ALL CONFLICTS IMMEDIATELY.
  - WHERE WALLS OR PARTITIONS ARE INDICATED TO BE REMOVED, REMOVE ENTIRE WALL OR PARTITIONS AS WELL AS DUCTS, PIPING, CONDUITS, AND OTHER ELEMENTS IN OR ON THEM WHICH MAY OR MAY NOT BE SPECIFICALLY IDENTIFIED. U.N.O. COORDINATE WITH OWNER ALL EQUIPMENT TO BE SALVAGED.
  - REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
  - REPAIR/PATCH OPENINGS IN WALLS, PARTITIONS, FLOORS, AND CEILINGS THAT ARE EXISTING OR WHERE DEMOLITION OCCURS TO MATCH EXISTING ADJACENT FINISH SURFACE. MAINTAIN CODE AND FIRE RATING REQUIREMENTS.
  - EXISTING FINISHES TO BE REMOVED SHALL HAVE THE ORIGINAL SUBSTRATE PREPARED TO RECEIVE NEW FINISHES.
  - PROVIDE SAFE MEANS OF EGRESS THROUGH AND/OR AROUND THE BUILDING AND/OR SITE AT ALL TIMES.
  - AVOID DISRUPTION TO ADJACENT FLOOR/AREAS AS MUCH AS POSSIBLE. KEEP NOISE TO A LEVEL ACCEPTABLE TO THE OWNER BY SCHEDULING EXCESSIVE NOISE TASKS WITH OWNER. ALL SAW CUTTING AND NOISE FABRICATION PRODUCING CONSTRUCTION TO BE SCHEDULED WITH OWNER AS NOT TO INTERFERE WITH DAILY ACTIVITIES. THIS MAY REQUIRE AFTER HOUR WORK.
  - PROVIDE DUST CONTROL BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS AT ALL TIMES.
  - ALL SHUTDOWNS OF MECHANICAL, SPRINKLER, FIRE ALARM, AND/OR ELECTRICAL SYSTEMS SHALL BE COORDINATED WITH OWNER.
  - ALL ITEMS INDICATED TO BE REMOVED FROM EXISTING WALLS (TACK BOARDS, MARKER BOARDS, BUMPER RAILS, CORNER GUARDS, MIRRORS, ETC.) SHALL BE RETURNED TO OWNER. U.N.O. PATCH WALLS AS REQUIRED FOR NEW FINISHES.
  - PROVIDE FIRE EXTINGUISHERS PER CODE AT ALL TIMES THROUGHOUT CONSTRUCTION AREA.
  - IF CONTRACTOR ENCOUNTERS HAZARDOUS MATERIALS OR MATERIALS CONTRACTOR SUSPECTS MAY CONTAIN HAZARDOUS MATERIALS (ASBESTOS, LEAD ETC.) STOP WORK IMMEDIATELY AND CONTACT THE ARCHITECT.
  - CONTRACTOR TO PROVIDE SHORING AS NEEDED TO PERFORM STRUCTURAL MODIFICATIONS.
  - DEMOLITION DRAWINGS ARE A REASONABLE REPRESENTATION OF THE EXISTING CONDITIONS. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES W/ THE EXISTING CONDITIONS. NO COST ADD WILL BE ALLOWED FOR ITEMS NOT FULLY DESCRIBED.



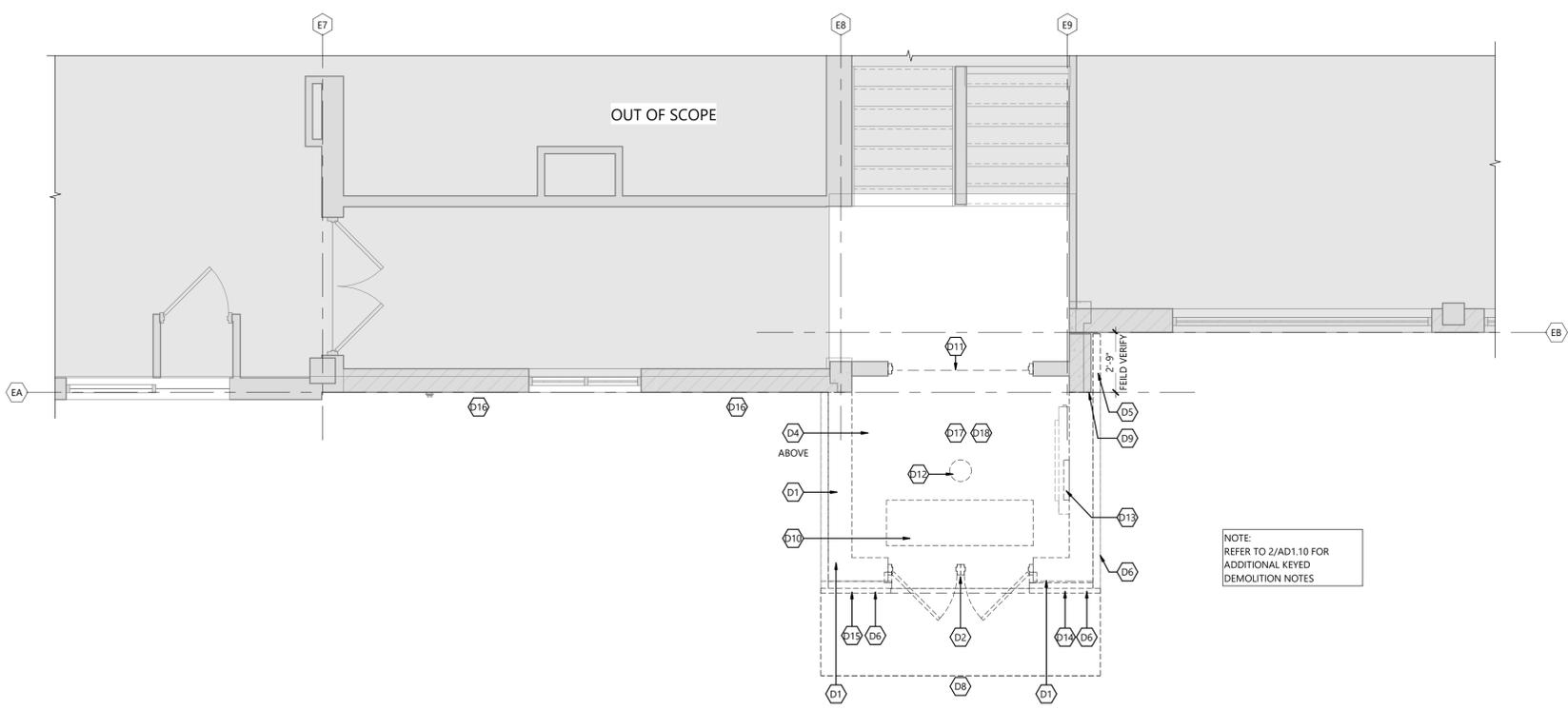
**2 WEST DEMOLITION ELEVATION**  
1/8" = 1'-0"



**3 WEST DEMOLITION ELEVATION - ALTERNATE #1**  
1/8" = 1'-0"

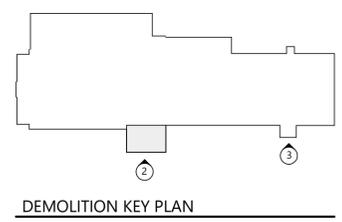


**4 DETAIL - ROOF SLAB**  
1/2" = 1'-0"



**1 FIRST LEVEL DEMOLITION PLAN**  
1/4" = 1'-0"

#	DESCRIPTION
D1	REMOVE WALL TO FOUNDATION IN PREPERATION FOR NEW ADDITON
D2	REMOVE DOOR / FRAME / HARDWARE ASSEMBLY
D3	REMOVE GLASS BLOCK, PREP FOR NEW WINDOW
D4	REMOVE ROOF ASSEMBLY AND ALL ASSOCIATED EQUIPMENT, FLASHING, INSULATION AND DRAINS. REMOVE TO EXTENTS CALLED FOR ON DETAIL 4/AD1.10
D5	REMOVE FACE STONE. SUBSTRATE MASONRY TO REMAIN
D6	REMOVE AND SALVAGE STONE VENEER
D7	REMOVE AND SALVAGE SIGNAGE FOR REINSTALL
D8	REMOVE CONCRETE STOOP
D9	CUT IN LINE WITH CONCRETE COLUMN
D10	REMOVE FLOOR GRATE, PREP FOR CONCRETE INFILL
D11	REMOVE DOOR FRAME, PREP FOR NEW DOOR AND FRAME
D12	REMOVE AND SALVAGE LIGHT FIXTURE
D13	REMOVE AND SALVAGE PLAQUES, REINSTALL IN ADDITION
D14	REMOVE BUILDING LABEL SIGNAGE. SALVAGE FOR REINSTALLATION
D15	REMOVE BUILDING DIRECTORY CASE. SALVAGE FOR REINSTALLATION.
D16	REMOVE EXTERIOR BANNER / SIGNAGE. SALVAGE FOR REINSTALLATION.
D17	REMOVE CARPET TILE
D18	REMOVE TWIN BRICK
D19	ALTERNATE #1: REMOVE GLASS BLOCK, PREP FOR NEW WINDOW



**DEMOLITION KEY PLAN**



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Karl Larsen LIC #: 54398 DATE: 02-12-26

DATE	REV#	REVISIONS DESCRIPTION

**Houston Elementary School Safe Entrance Addition**

DEMOLITION PLAN & ELEVATION

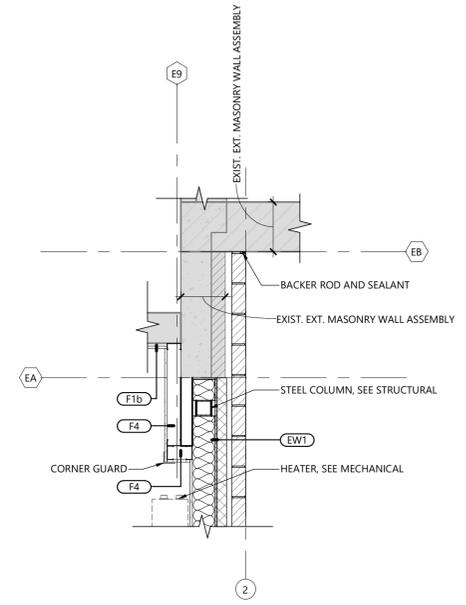
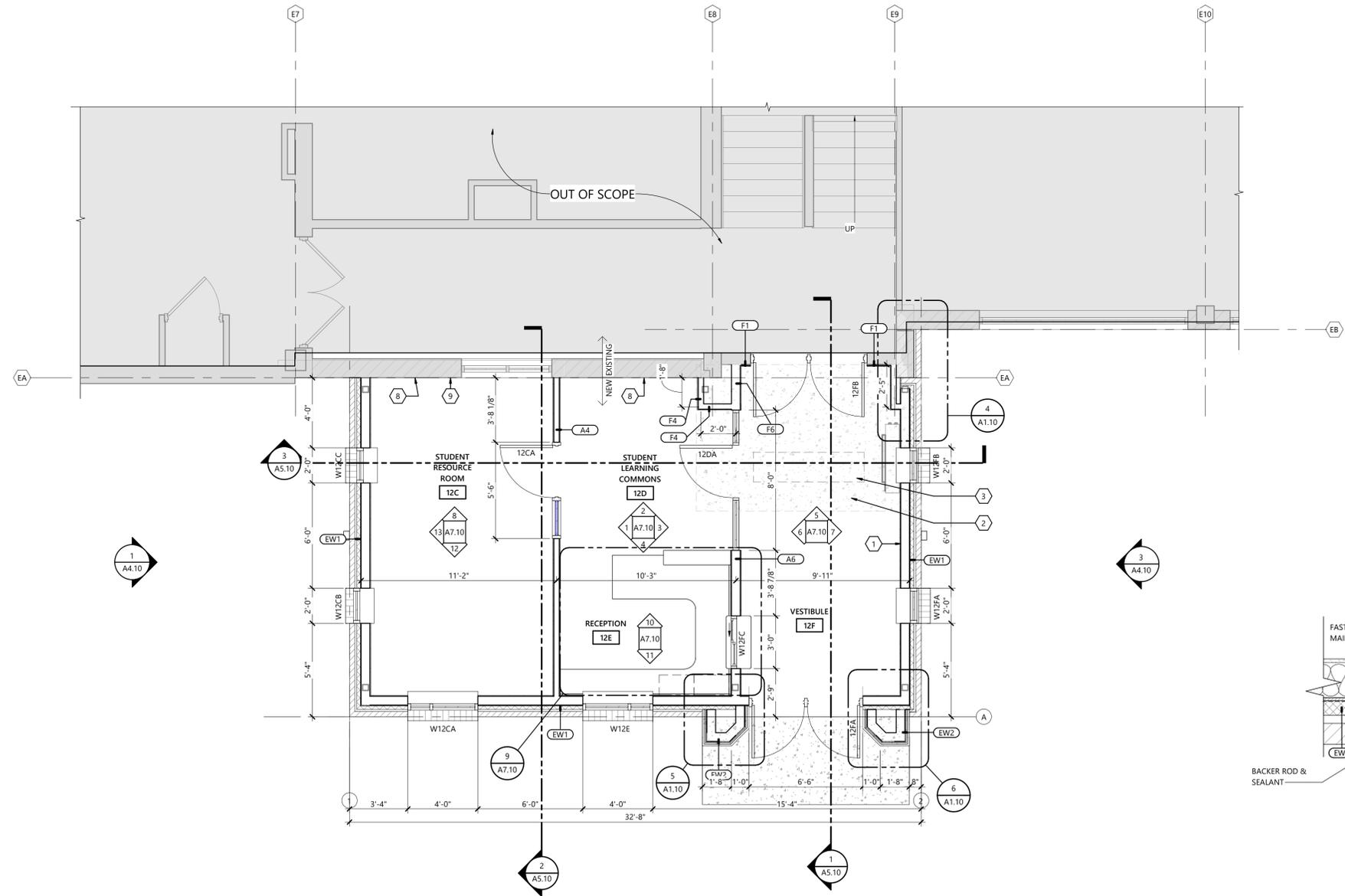
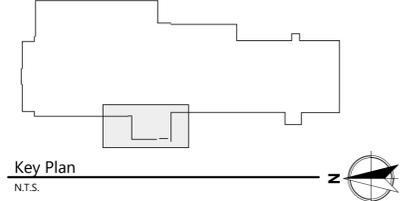
**AD1.10**

PROJECT #: 2025-11441

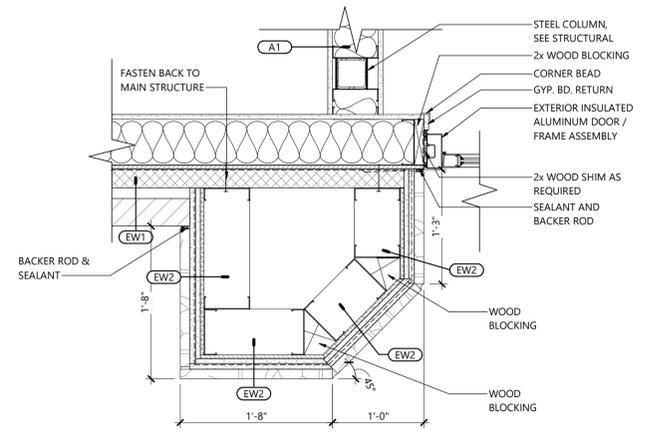
- GENERAL FLOOR PLAN NOTES:**
- ALL INTERIOR PARTITION WALLS ARE METAL STUDS @ 16" O.C. WITH 5/8" GWB EACH SIDE (U.N.O.)
  - DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION IMMEDIATELY
  - ALL PIPING, CONDUITS, AND RELATED MECHANICAL AND ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN DRYWALL FURRING AS REQUIRED IN FINISHED AREAS WHETHER SHOWN ON DRAWINGS OR NOT, U.N.O.
  - PROVIDE METAL PLATE BACKING AND/OR TREATED WOOD BLOCKING IN WALLS WHERE WALL-MOUNTED EQUIPMENT IS SHOWN ON PLANS OR ELEVATIONS. VERIFY HEIGHT AND LENGTH WITH ACTUAL EQUIPMENT.
  - ALL DIMENSIONS ARE CLEAR FROM THE CENTER OF STUD, TO CENTER OF STUD. SEE PARTITION TYPES FOR ACTUAL THICKNESS OF PARTITIONS. MASONRY WALLS ARE DIMENSIONED TO THE NOMINAL FACE.
  - ALL EXTERIOR DIMENSIONS ARE EXTERIOR FACE OF BRICK TO OUTSIDE FACE OF BRICK. ALL INTERIOR DIMENSIONS ARE TO THE CENTER OF THE WALL (U.N.O.)
  - PATCH ALL HOLES IN SURFACES WHERE EQUIPMENT HAS BEEN REMOVED OR DEMOLITION HAS OCCURRED. PREPARED SURFACES AS REQUIRED FOR NEW FINISHES. PATCH TO MATCH ADJACENT SURFACE IF NOT SCHEDULED.
  - ALL FLOOR OPENINGS AND DEPRESSIONS IN THE WORK SHALL BE FILLED OR CLOSED U.N.O. WITH MATERIALS TO MATCH ADJACENT SURFACES. FINISHES ARE FIRE RATED.
  - PROVIDE CONTROL JOINTS FOR GYPSUM BOARD WALLS. MAXIMUM SPACING PER ASTM C 840 AND GA-216.

ROOM FINISH SYMBOL LEGEND	
	FLOOR FINISH CHANGE SYMBOL
	DENOTES DIRECTION OF FLOORING INSTALLATION PATTERN
	DENOTES LOCATION OF CORNER GUARDS

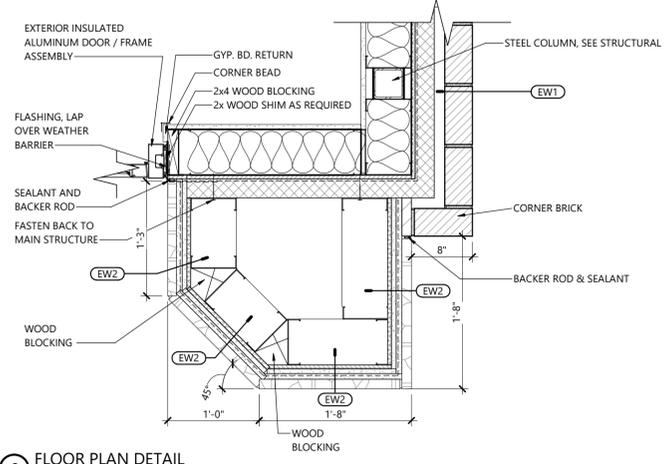
#	DESCRIPTION
1	REINSTALL SALVAGED BUILDING PLAQUES
2	EXISTING FLOOR SLAB
3	INFILL FLOOR GRATE FLUSH WITH SLAB, SEE STRUCTURAL
8	CLEAN EXISTING MASONRY WALL WHERE EXPOSED IN NEW INTERIOR, DO NOT PAINT
9	CLEAN EXISTING MASONRY WALL BELOW EXISTING VENT



**4 FLOOR PLAN DETAIL - CONNECTION TO EXIST.**  
1/2" = 1'-0"



**5 FLOOR PLAN DETAIL AT JAMB**  
1" = 1'-0"



**6 FLOOR PLAN DETAIL**  
1" = 1'-0"

**1 GYM / ENTRY LEVEL**  
1/4" = 1'-0"

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Karl Larsen LIC # 54398 DATE: 02-12-26

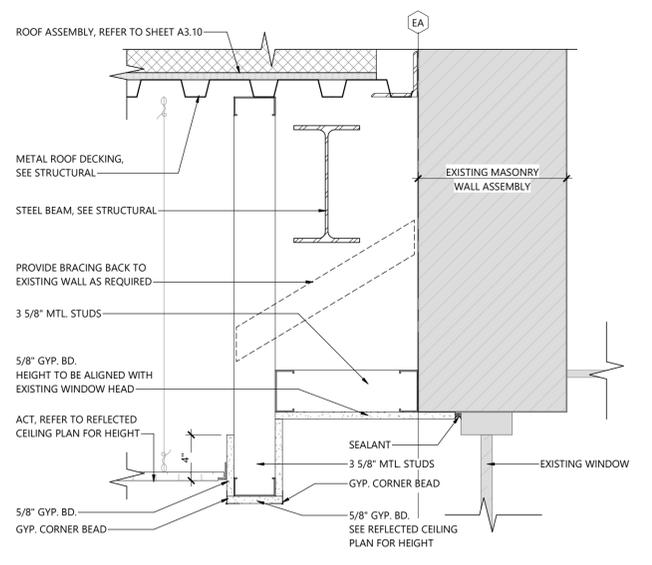
DATE	REV#	REVISIONS DESCRIPTION

**Houston Elementary School Safe Entrance Addition**

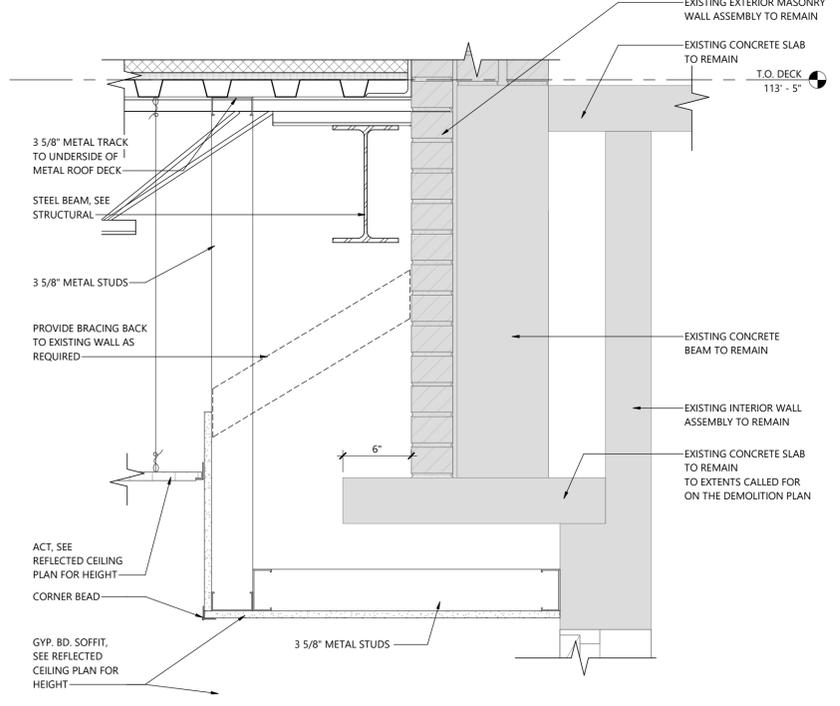
GYM ENTRY FLOOR PLAN / DETAILS

**A1.10**

PROJECT #: 2025-11441



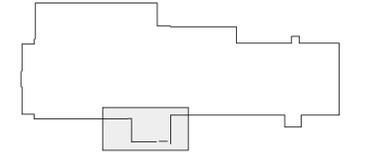
**2** DETAIL AT GYP. BD. SOFFIT IN STUDENT RESOURCE ROOM  
1 1/2" = 1'-0"



**3** SOFFIT DETAIL AT ENTRANCE  
1 1/2" = 1'-0"

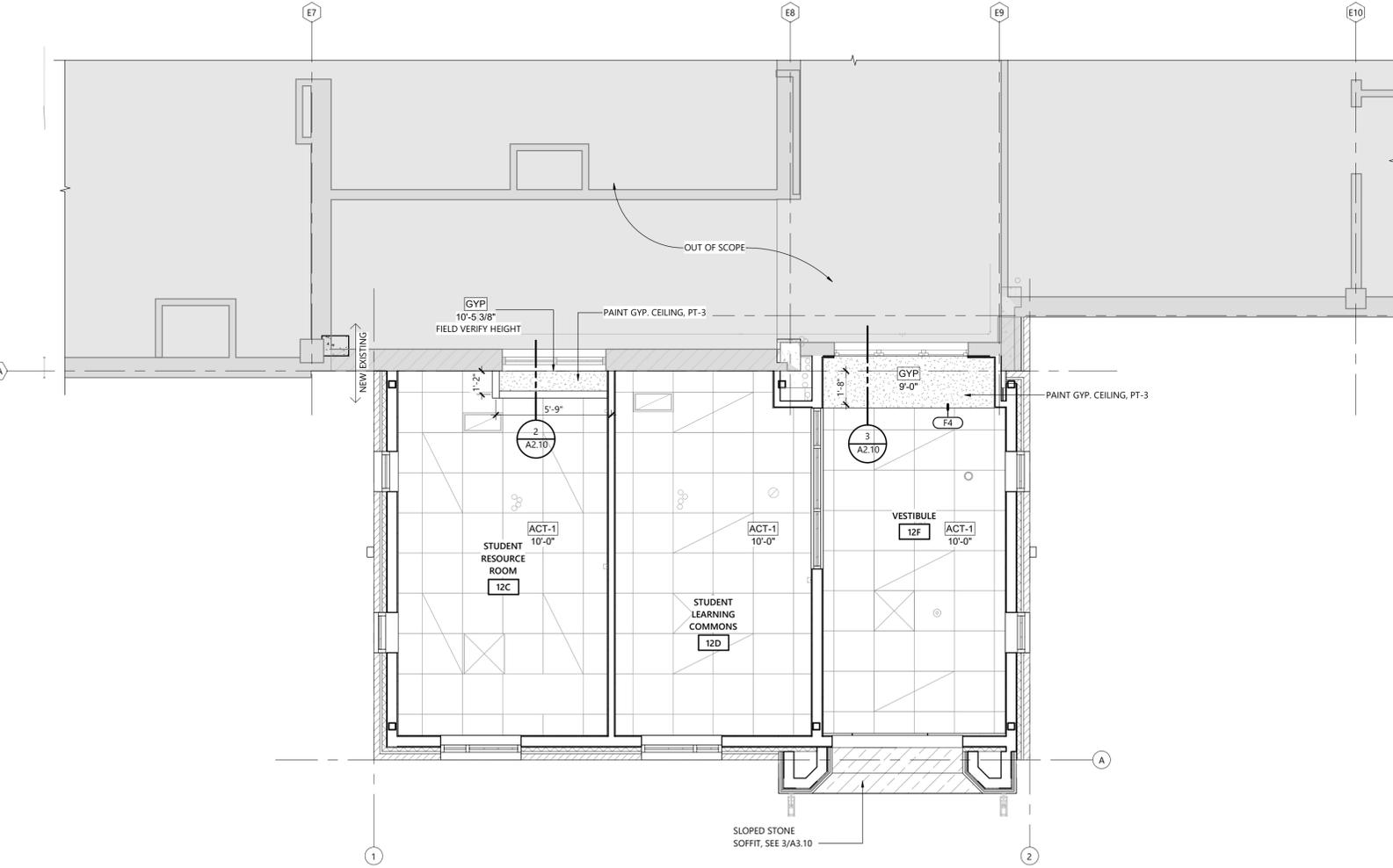
- GENERAL CEILING PLAN NOTES:**
- COORDINATE LIGHTING, SUPPLY AIR DIFFUSER & RETURN AIR GRILLE LOCATIONS WITH ELECTRICAL AND MECHANICAL DRAWINGS. VERIFY ANY DISCREPANCIES WITH ARCHITECT.
  - EXIT LIGHTS NOT SHOWN - COORDINATE WITH APPROPRIATE DRAWINGS.
  - SEE ROOF PLAN FOR OVERHANG DIMENSIONS
  - SEE ROOM FINISH SCHEDULE FOR ADDITIONAL HEIGHTS AND INFO

CEILING PLAN LEGEND			
CLG-# 8'-0"	CEILING TYPE TAG W/ CEILING HEIGHT		RECESSED CIRCULAR
	ACOUSTICAL CEILING TILE		RECESSED RECTANGULAR
	GYP. BOARD CEILING		SURFACE-SUSPENDED CIRCULAR
	BOLLARD		SURFACE-SUSPENDED RECTANGULAR
	EMERGENCY LIGHT		RETURN GRILLE
	EXIT SIGN WITH DIRECTIONAL ARROW(S)		ROUND CEILING DIFFUSER
	PENDANT - CEILING MOUNTED		SQUARE CEILING DIFFUSER
	CEILING FAN		SUPPLY GRILLE



**KEY PLAN**  
N.T.S.

CEILING TYPES SCHEDULE					
CLG-#	DESCRIPTION	TESTS & RATINGS			COMMENTS
		FIRE	STC	UL #	
ACT-1	24"x24" SUSPENDED ACOUSTICAL CEILING				
GYP	GYP. BOARD CEILING				



**1** GYM/ENTRY LEVEL REFLECTED CEILING PLAN  
1/4" = 1'-0"



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DATE	REV#	REVISIONS DESCRIPTION

**Houston Elementary School Safe Entrance Addition**

**GYM / ENTRY LEVEL REFLECTED CEILING PLAN**

**A2.10**

PROJECT #: 2025-11441

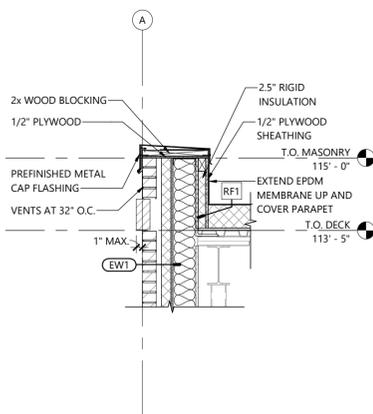
**GENERAL ROOF PLAN NOTES:**

- PROVIDE ROOFING MANUFACTURER'S RECOMMENDED STANDARDS, FLASHING DETAILS FOR ALL DRAINS, PENETRATIONS, ETC.
- VERIFY AND COORDINATE QUANTITY, SIZE AND LOCATIONS OF ROOF EQUIPMENT AND PENETRATIONS WITH OTHER TRADES.
- PROVIDE CRICKETS AT MECHANICAL EQUIPMENT CURBS ETC. TO PROVIDE POSITIVE DRAINAGE.
- UNIFORMLY SLOPE TAPERED INSULATION MINIMUM 1/4" IN HEIGHT PER 1'-0" HORIZONTALLY (OR AS REQUIRED BY CODE) AT LEVEL ROOF AREAS, UNLESS NOTED OTHERWISE.
- MINIMUM ROOF INSULATION THICKNESS AT ROOF DRAINS (LOW POINT)=2". SLOPE CRICKET INSULATION TO DRAIN AROUND PENETRATIONS (VENTS, STACKS, ETC.) AND AT VALLEYS BETWEEN ROOF DRAINS.
- ALL ROOF DRAINS SHALL HAVE AN OVERFLOW DRAIN OR SCUPPER SET AT ELEVATION 2" HIGHER THAN ROOF DRAIN, U.N.O.

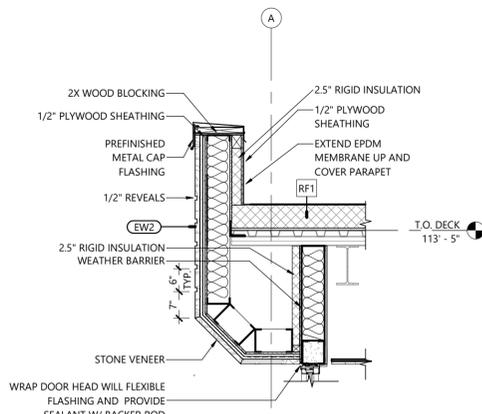
ROOF PLAN LEGEND	
	TAPERED ROOF INSULATION - INCHES PER FOOT AS INDICATED
	APPROXIMATE TOTAL ROOF INSULATION THICKNESS - EXCLUDING CRICKETS (MINIMUM TWO LAYER - STAGGER JOINTS)

ROOF TYPES SCHEDULE			
R#	DESCRIPTION	TESTS & RATINGS	
		FIRE RATING	UL #
RF1	MEMBRANE ROOFING, STEEL FRAMING		

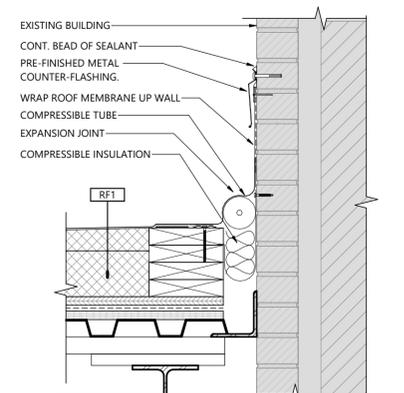
KEYED PLAN NOTES	
#	DESCRIPTION
4	METAL CAP FLASHING
5	SCUPPER AND DOWNSPOUT
6	OVERFLOW SCUPPER WITH EXTENSION



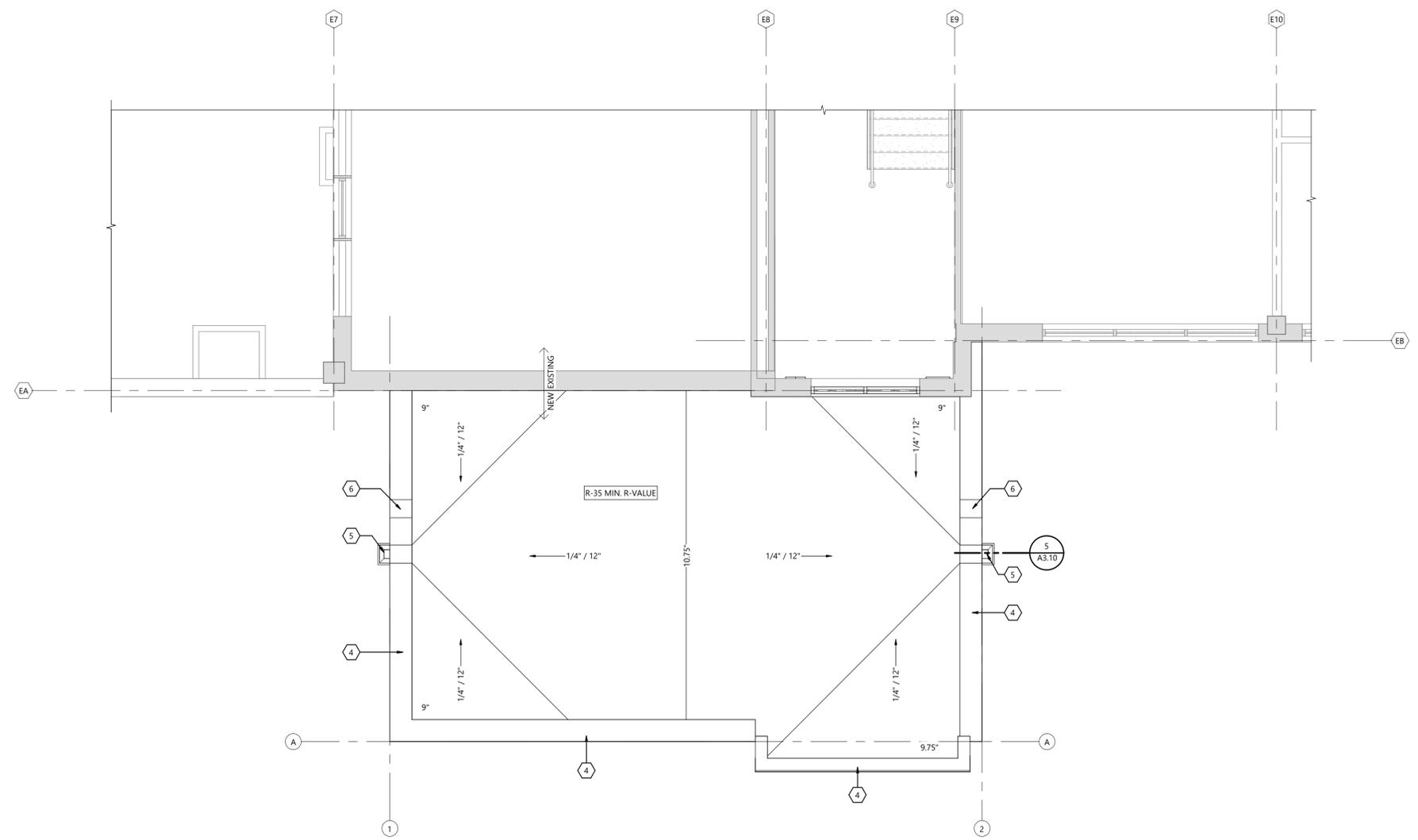
**2 ROOF DETAIL**  
1/2" = 1'-0"



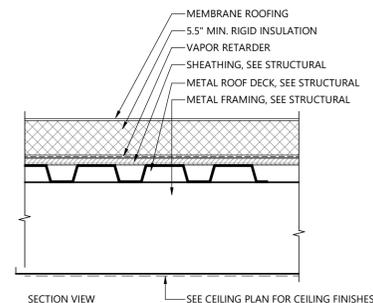
**3 ROOF DETAIL - SOFFIT AT ENTRY**  
1/2" = 1'-0"



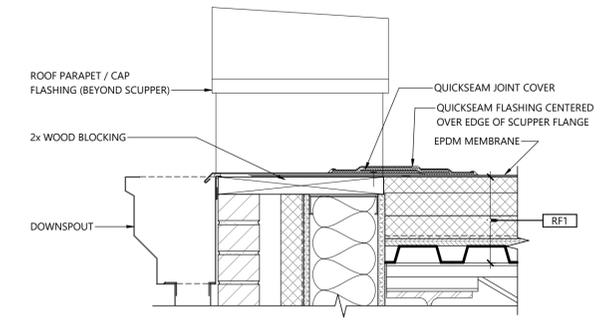
**4 ROOF DETAIL @ EXISTING WALL**  
1 1/2" = 1'-0"



**1 ROOF PLAN**  
1/4" = 1'-0"



RF1 MEMBRANE ROOFING, STEEL FRAMING



**5 DETAIL AT SCUPPER / DOWNSPOUT**  
1 1/2" = 1'-0"



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Houston Elementary School Safe Entrance Addition

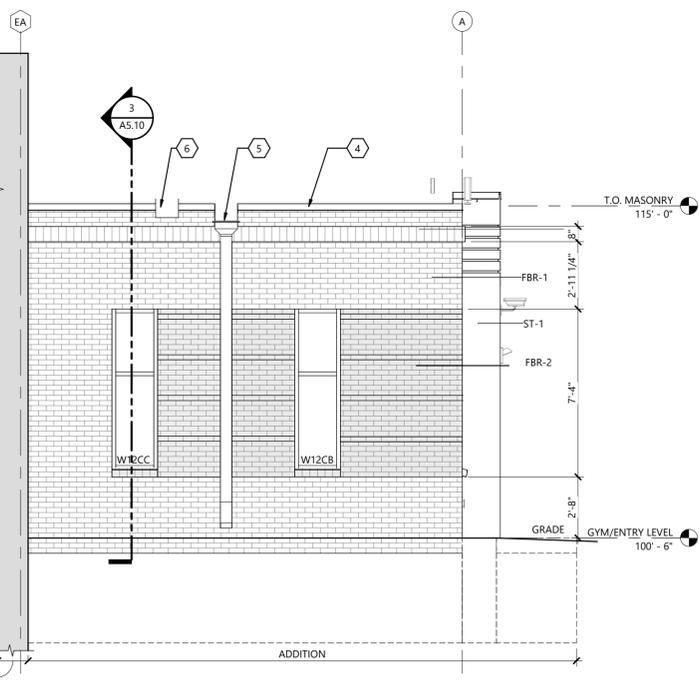
ROOF PLAN

A3.10

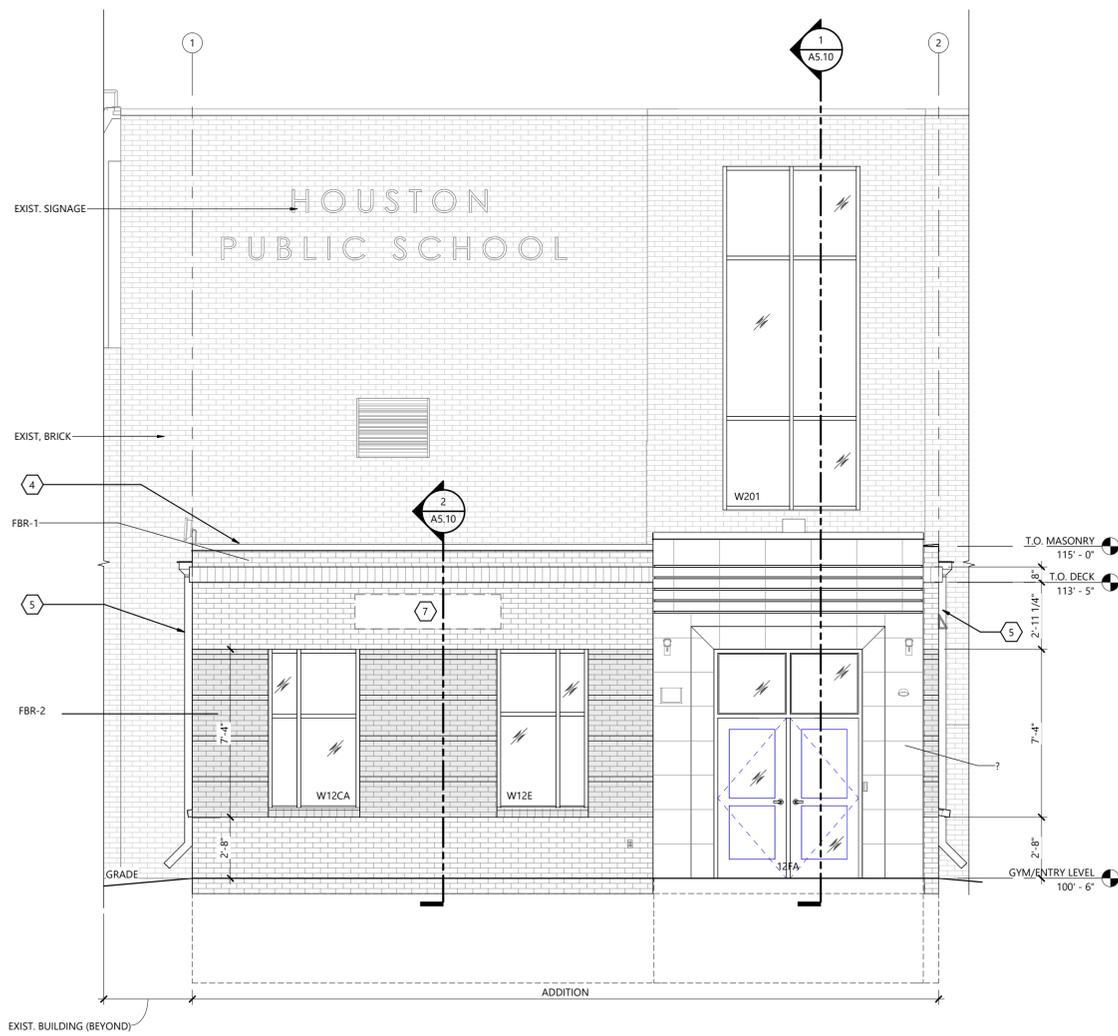
PROJECT #: 2025-11441



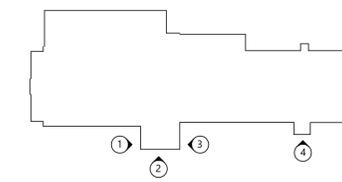
4 WEST ELEVATION - ALTERNATE #1  
1/4" = 1'-0"



1 SIDE ELEVATION  
1/4" = 1'-0"



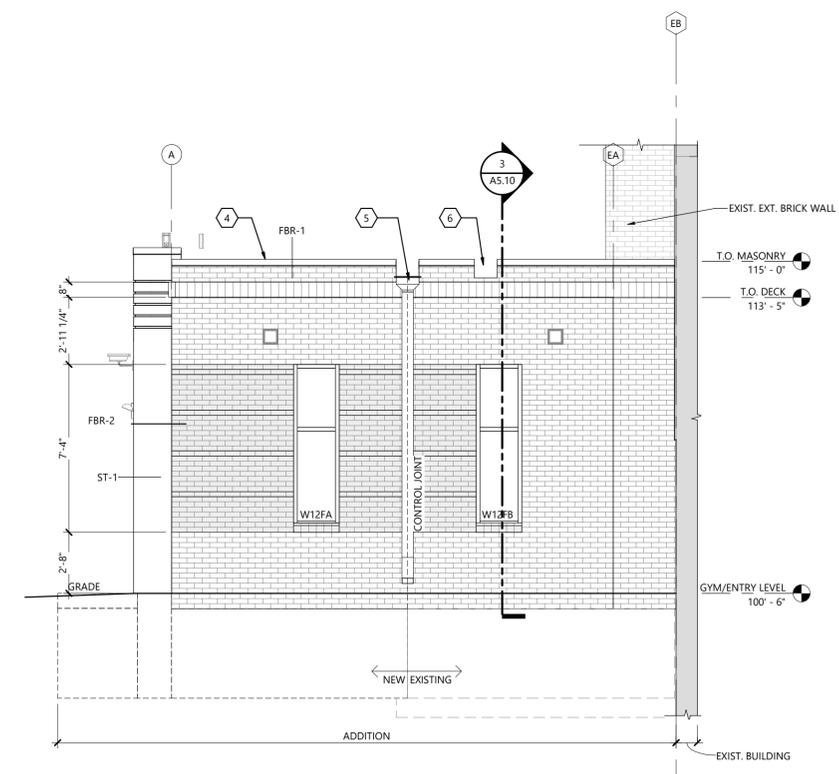
2 FRONT ELEVATION  
1/4" = 1'-0"



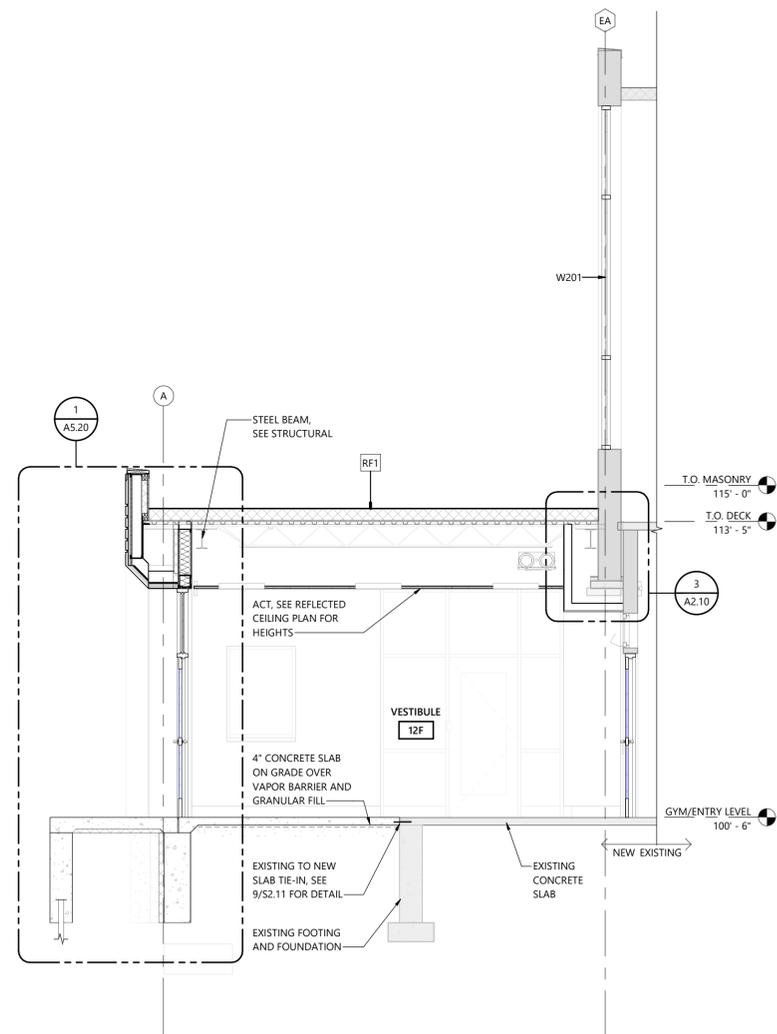
5 ELEVATION KEY PLAN  
1/2" = 1'-0"

EXTERIOR MATERIAL ID LIST		
XXX-#	DESCRIPTION	COMMENTS

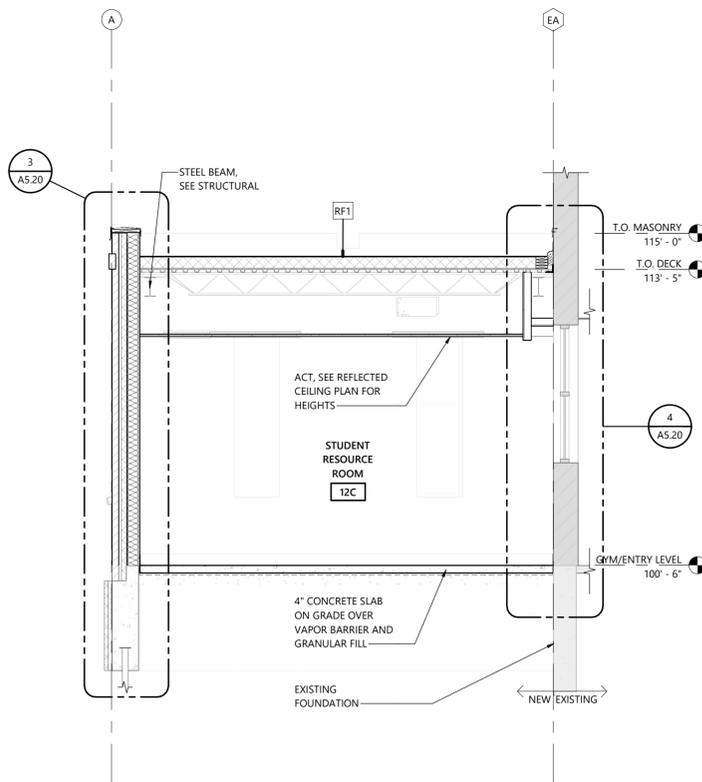
KEYED PLAN NOTES	
#	DESCRIPTION
4	METAL CAP FLASHING
5	SCUPPER AND DOWNSPOUT
6	OVERFLOW SCUPPER WITH EXTENSION
7	REINSTALL SALVAGED BUILDING SIGNAGE



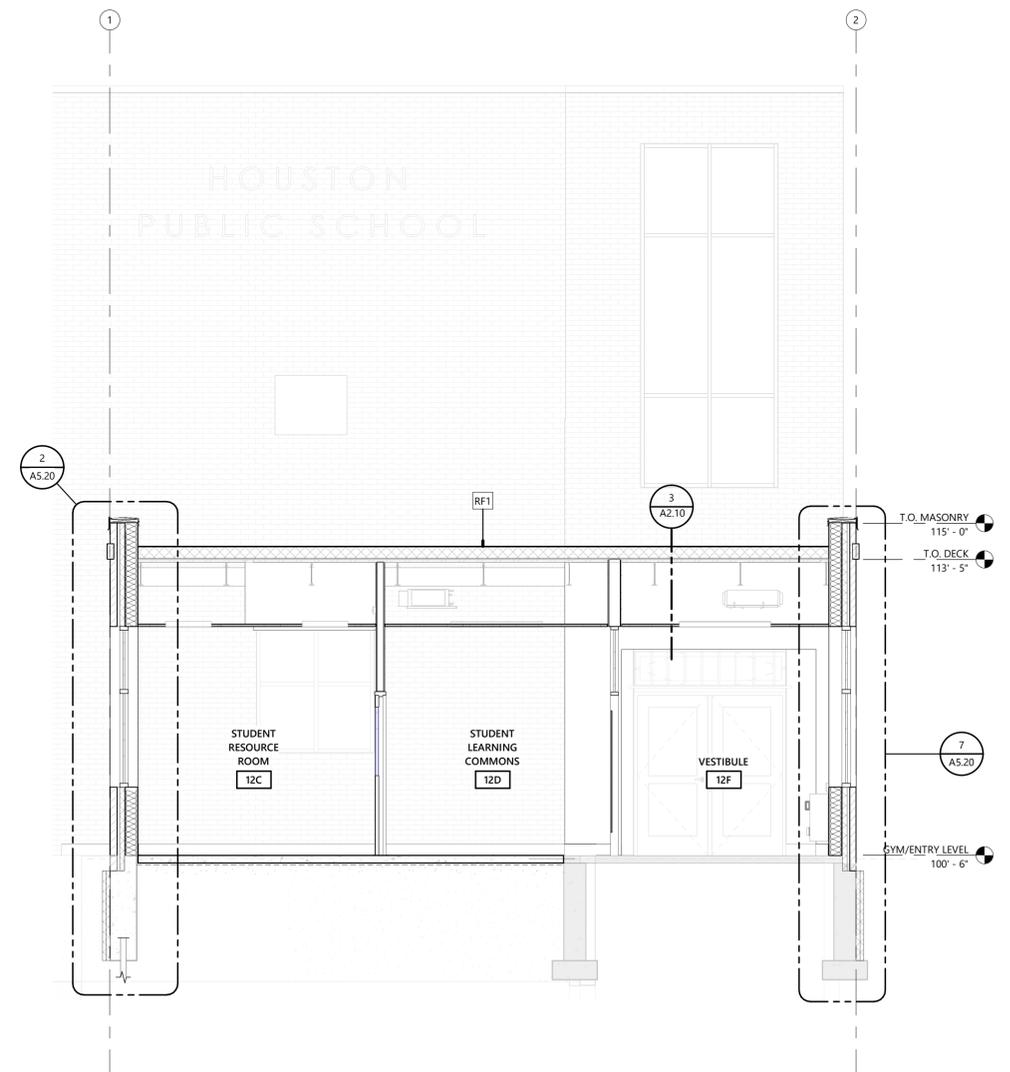
3 SIDE ELEVATION  
1/4" = 1'-0"



1 SECTION E/W AT VESTIBULE  
1/4" = 1'-0"



2 SECTION E/W AT STUDENT RESOURCE ROOM  
1/4" = 1'-0"



3 SECTION N/S  
1/4" = 1'-0"

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Karl Larsen LIC # 54398 DATE: 02-12-26

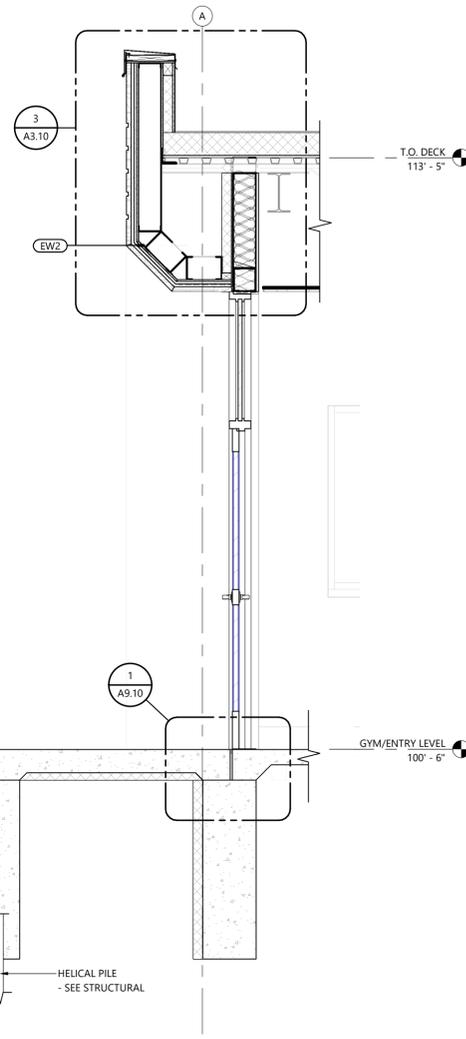
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Houston Elementary School Safe Entrance Addition

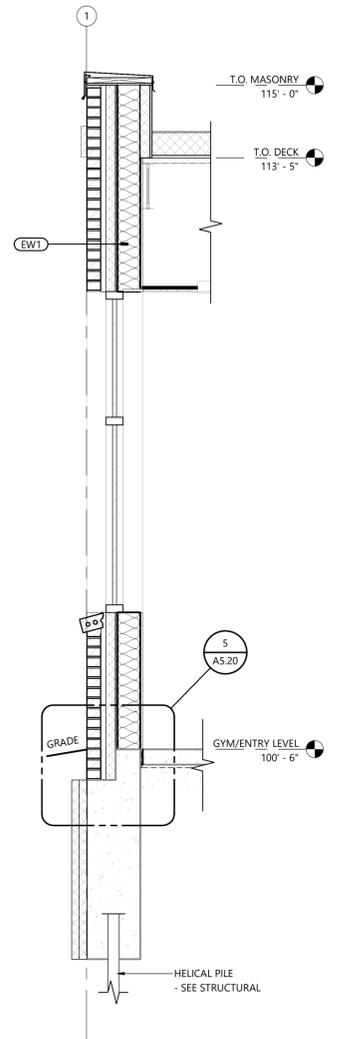
BUILDING SECTIONS

A5.10

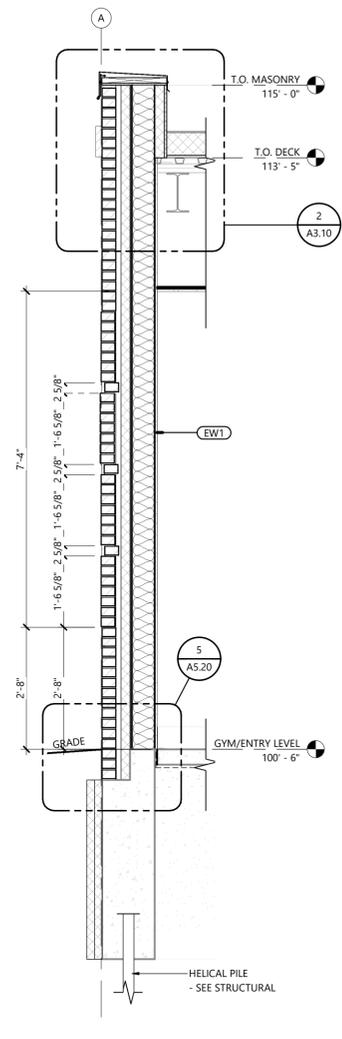
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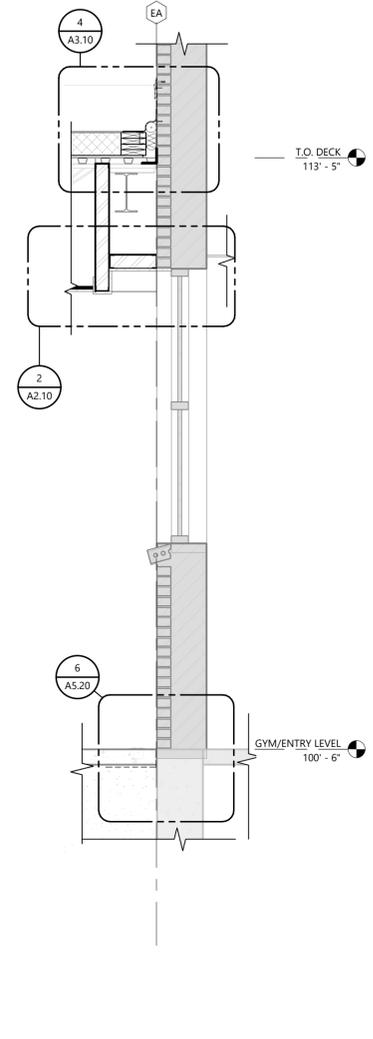
1 WALL SECTION AT ENTRY  
1/2" = 1'-0"



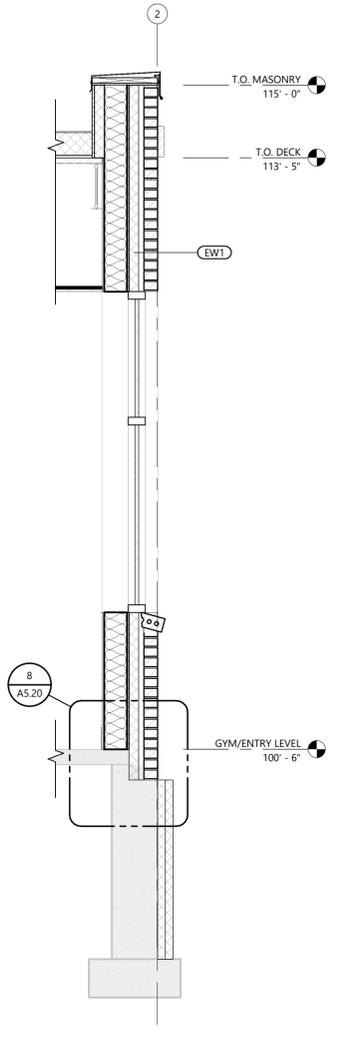
2 WALL SECTION AT WINDOW  
1/2" = 1'-0"



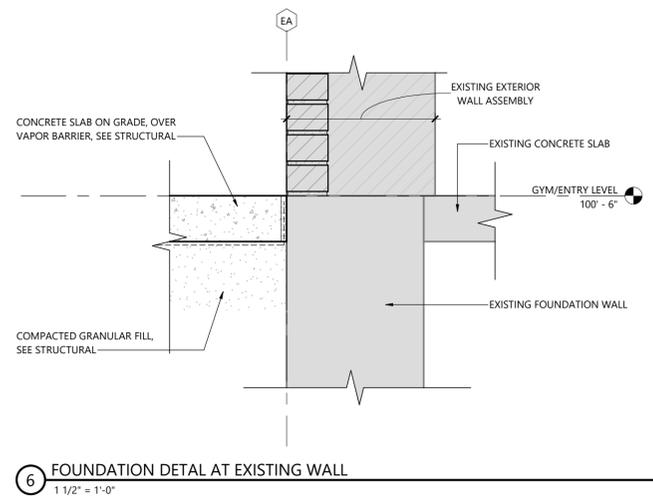
3 TYPICAL WALL SECTION  
1/2" = 1'-0"



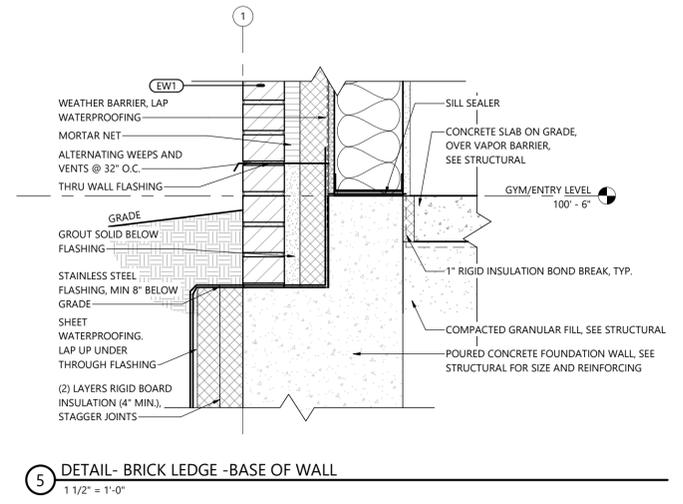
4 WALL SECTION AT EXISTING WALL / WINDOW  
1/2" = 1'-0"



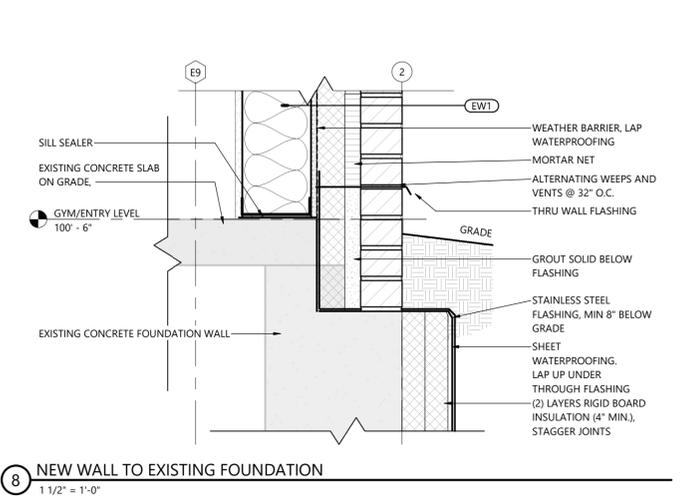
7 WALL SECTION AT EXISTING FOUNDATION  
1/2" = 1'-0"



6 FOUNDATION DETAL AT EXISTING WALL  
1 1/2" = 1'-0"



5 DETAIL - BRICK LEDGE - BASE OF WALL  
1 1/2" = 1'-0"



8 NEW WALL TO EXISTING FOUNDATION  
1 1/2" = 1'-0"

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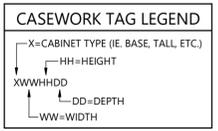
Houston Elementary School Safe Entrance Addition

WALL SECTIONS

A5.20

PROJECT #: 2025-11441

- INTERIOR ELEVATION NOTES:**
- ALL EXPOSED ENDS OF CASEWORK TO HAVE FINISHED END PANELS.
  - WOOD DOORS, FRAMES AND BASE MOLDING TO BE FILLED, STAINED, SEALED AND SHOP FINISHED TO MATCH PROVIDED SAMPLE. WORK SHOULD BE PERFORMED IN A DUST FREE ROOM.
  - PAINT ALL EXPOSED DUCTWORK, CONDUIT, ETC. TO MATCH ADJACENT SURFACES, UNLESS NOTED OTHERWISE.
  - SPECIFIED PRODUCTS AND FINISHES MAY HAVE SUBSTANTIAL LEAD TIMES. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING ORDERS IN A TIMELY MANNER TO KEEP THE PROJECT ON SCHEDULE. CONTRACTOR WILL BE RESPONSIBLE FOR EXPENSES AND DESIGN FEES, RELATED TO ANY RESELECTIONS REQUIRED DUE TO FAILURE TO ORDER PRODUCTS IN A TIMELY MANNER.
  - ALL FINISH WORK SHALL BE PERFORMED IN COMPLIANCE WITH SPECIFICATIONS AND DRAWINGS. SHOP DRAWING SUBMITTALS, SAMPLES AND PRODUCT DATA SHALL BE SUBMITTED TO THE ARCHITECT FOR THEIR REVIEW AND APPROVAL PRIOR TO BEGINNING WORK.
  - SEE "G" SHEETS FOR TYPICAL MOUNTING HEIGHTS

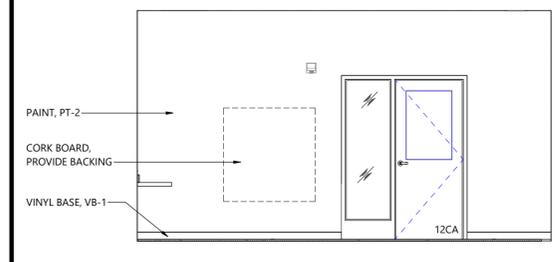


**COMPONENT ID LIST**

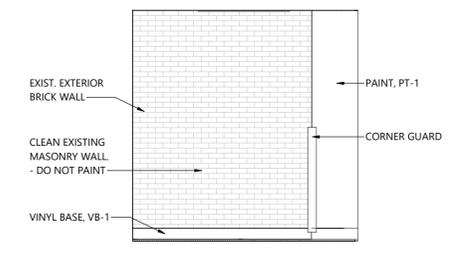
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		PROVIDED	INSTALLED	

**INTERIOR MATERIAL ID LIST**

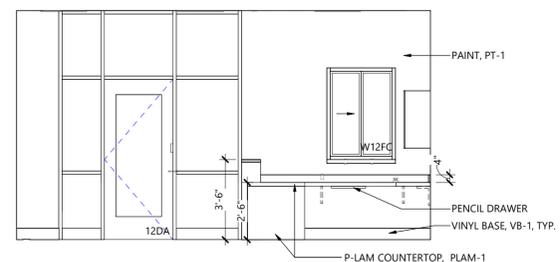
XXX-##	DESCRIPTION	MANUF.	MODEL	SIZE	COLOR/FINISH	COMMENTS



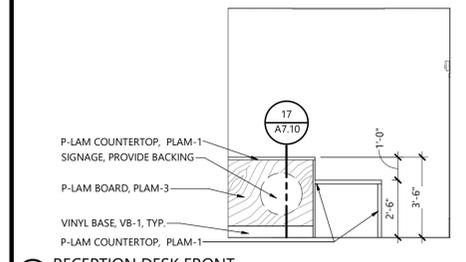
**1 STUDENT LEARNING COMMONS INT. ELEVATION**  
 1/4" = 1'-0"



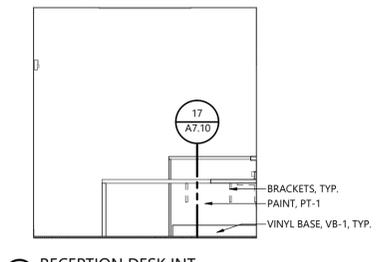
**2 STUDENT LEARNING COMMONS INT. ELEVATION**  
 1/4" = 1'-0"



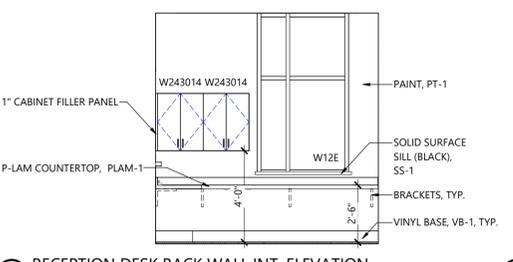
**3 STUDENT LEARNING COMMONS INT. ELEVATION**  
 1/4" = 1'-0"



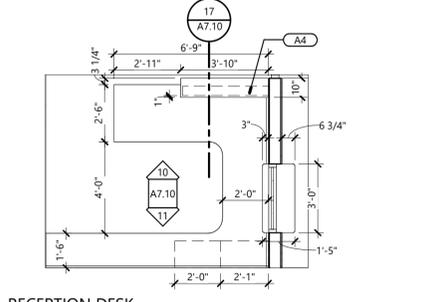
**4 RECEPTION DESK FRONT**  
 1/4" = 1'-0"



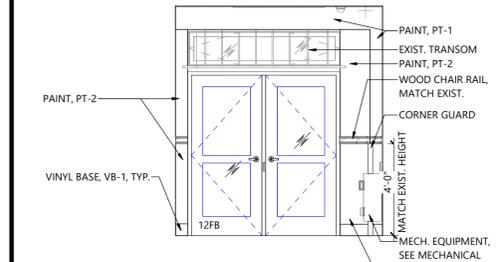
**10 RECEPTION DESK INT.**  
 1/4" = 1'-0"



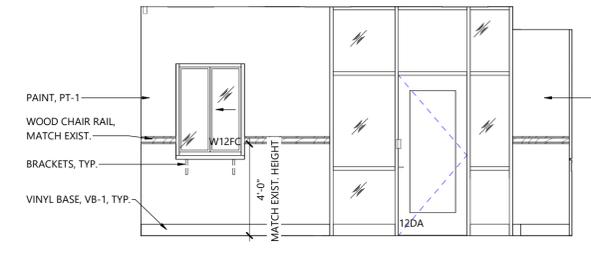
**11 RECEPTION DESK BACK WALL INT. ELEVATION**  
 1/4" = 1'-0"



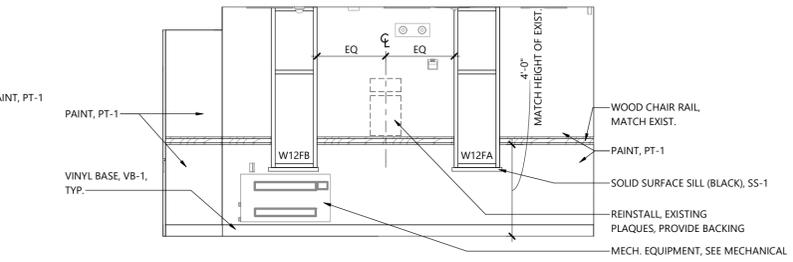
**9 RECEPTION DESK**  
 1/4" = 1'-0"



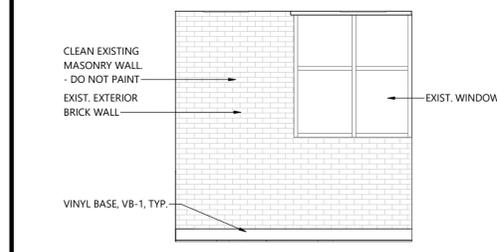
**5 VESTIBULE INT. ELEVATION**  
 1/4" = 1'-0"



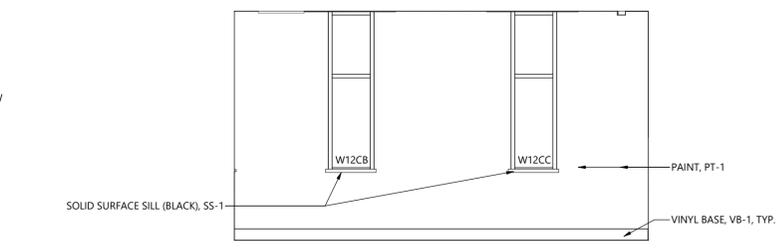
**6 VESTIBULE INT. ELEVATION**  
 1/4" = 1'-0"



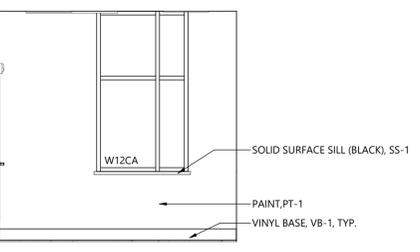
**7 VESTIBULE INT. ELEVATION**  
 1/4" = 1'-0"



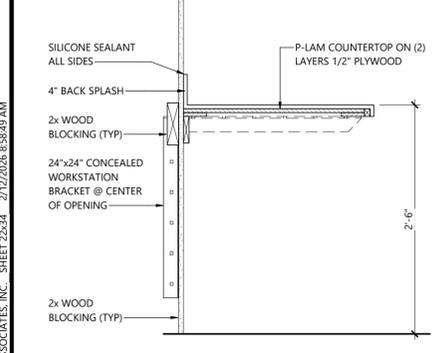
**8 STUDENT RESOURCE ROOM - INT. ELEVATION**  
 1/4" = 1'-0"



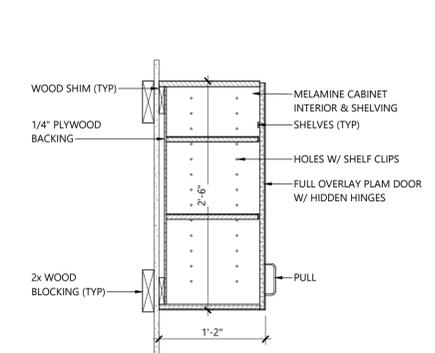
**13 STUDENT RESOURCE ROOM INT. ELEVATION**  
 1/4" = 1'-0"



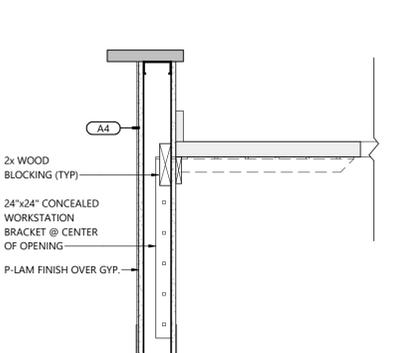
**12 STUDENT RESOURCE ROOM INT. ELEVATION**  
 1/4" = 1'-0"



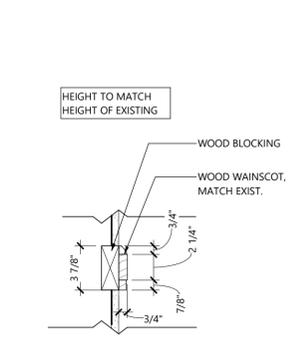
**14 CASEWORK DETAIL - WORKSTATION COUNTER**  
 1" = 1'-0"



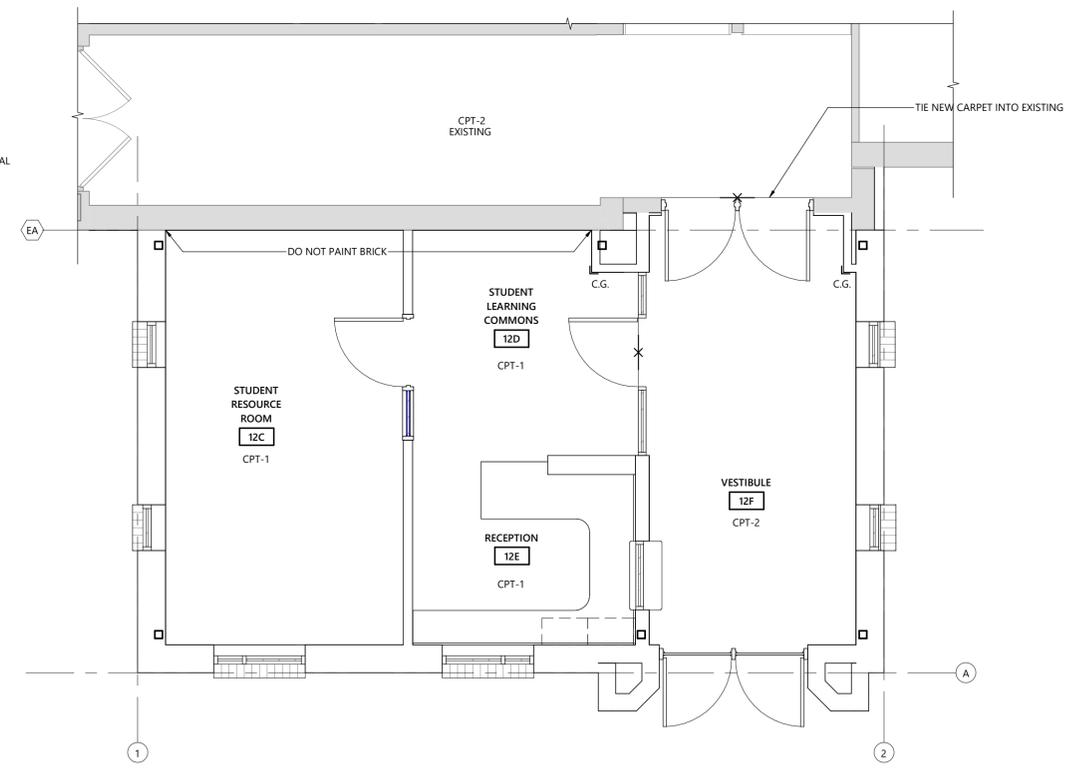
**15 UPPER CABINET**  
 1" = 1'-0"



**17 BRACKET DETAIL @ FRONT COUNTER**  
 1" = 1'-0"



**18 CHAIR RAIL DETAIL**  
 1 1/2" = 1'-0"



**16 FINISH PLAN**  
 1/4" = 1'-0"

**ROOM FINISH SCHEDULE**

#	ROOM NAME	FLOOR FINISH	BASE MATERIAL	WALLS								CEILING		NOTES		
				NORTH		EAST		SOUTH		WEST		MATERIAL	FINISH			
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH					
12C	STUDENT RESOURCE ROOM	CPT-1	VB-1	GYP BD	PT-1	GYP BD/BRICK	PT-1 (GYP)	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1/GYP	PT-3 (GYP)	
12D	STUDENT LEARNING COMMONS	CPT-1	VB-1	GYP BD	PT-2	GYP BD/BRICK	PT-1 (GYP)	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1		
12E	RECEPTION	CPT-1	VB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1		
12F	VESTIBULE	CPT-2	VB-1	GYP BD	PT-1	GYP BD	PT-1/PT-2	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1/GYP	PT-3 (GYP)	WOOD WAINSCOT TO MATCH EXIST.

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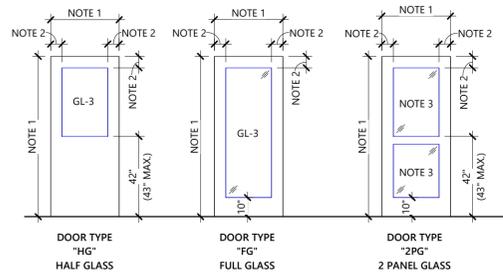
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DRAWN BY: MW  
 CHECKED BY: KL  
 Karl Larsen LIC # 54398 DATE: 02-12-26

DATE	REV#	REVISIONS DESCRIPTION

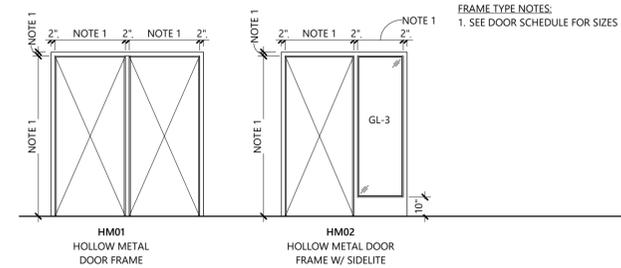
**Houston Elementary School Safe Entrance Addition**  
 INTERIOR ELEVATIONS, DETAILS & ROOM FINISH SCHEDULE

**A7.10**  
 PROJECT #: 2025-11441



**DOOR TYPE NOTES:**  
 1. SEE SCHEDULE FOR SIZES  
 2. STILE WIDTH  
 • AL = WIDE STILE (SEE SPECS)  
 • WD = 6 1/2"  
 3. GLAZING TYPES  
 A. EXTERIOR GL-1  
 B. INTERIOR GL-3

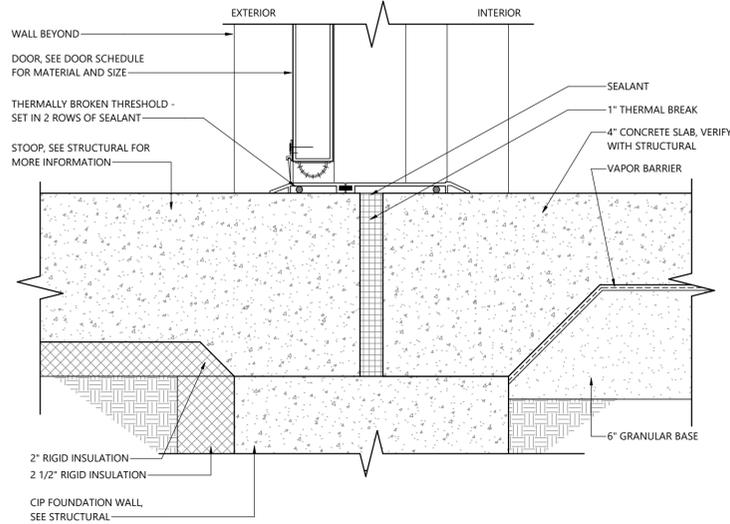
**DOOR TYPES**



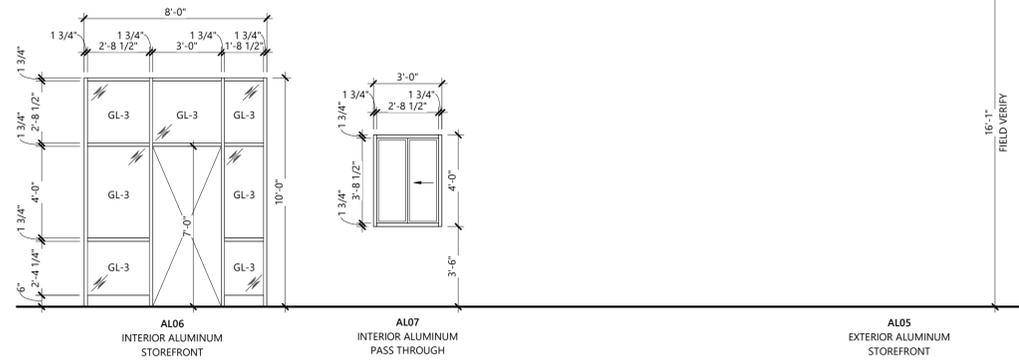
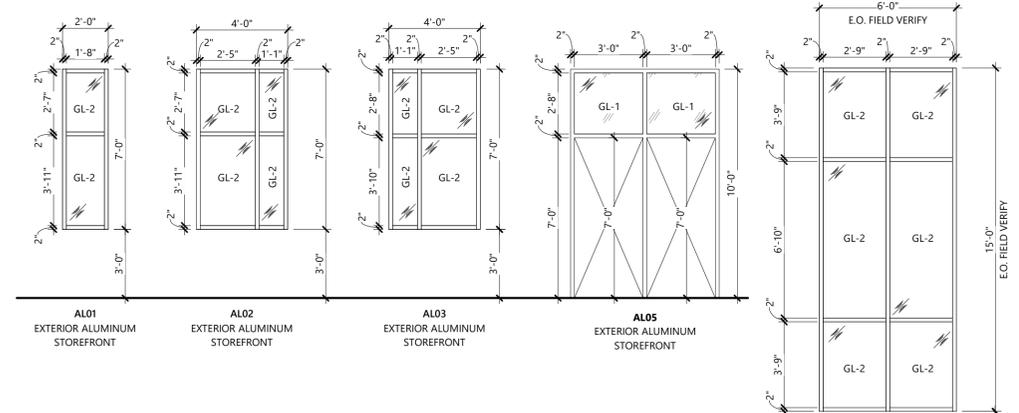
**HOLLOW METAL FRAME TYPES**

GLAZING LEGEND		
GL-1:	INSULATED TEMPERED GLASS	
GL-2:	INSULATED GLASS	
GL-3:	CLEAR ANNEALED TEMPERED GLASS	

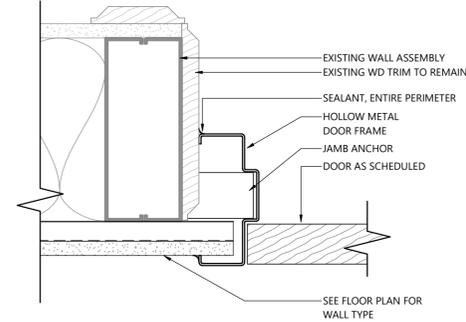
###		DOOR SCHEDULE - NEW DOORS																		
DOOR #	ROOM #	ROOM NAME	HARDWARE GROUP	WIDTH	HEIGHT	THICKNESS	TYPE	GLAZING			FRAME			(IF APPLICABLE)		DETAIL # / SHEET #			COMMENTS	
								TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD HEIGHT	DEPTH	SIDELITE WIDTH	TRANSOM HEIGHT	HEAD		JAMB
12CA	12C	STUDENT RESOURCE ROOM	1	3'-0"	7'-0"	1 3/4"	HG	GL-3	WD	AL03	AL	FACTORY	2"	5 3/4"	24"			5/A9.10	4/A9.10	
12DA	12D	STUDENT LEARNING COMMONS	2	3'-0"	7'-0"	1 3/4"	FG	GL-3	WD	AL06	AL	FACTORY	-	4"			7/A9.10	6/A9.10		
12FA	12F	VESTIBULE	3	3'-0"	7'-0"	1 3/4"	DBL-2PG	GL-1	AL	AL05	AL	FACTORY	-	4 1/2"			3/A3.10	586/A1.10	1/A9.10	
12FB	12F	VESTIBULE	4	3'-1"	7'-0"	1 3/4"	DBL-2PG	GL-3	WD	HM01	HM	PT	2"	5 3/4"			3/A9.10	2/A9.10		



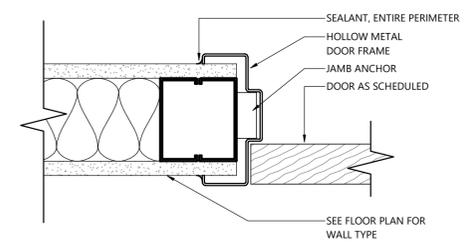
**1 DOOR DETAIL**  
3" = 1'-0"



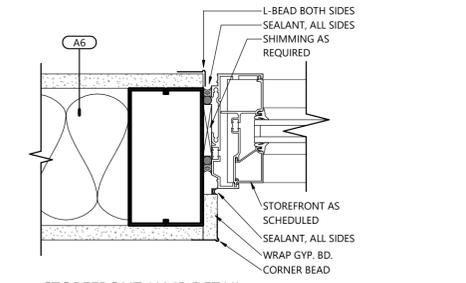
**ALUMINUM FRAME TYPES**



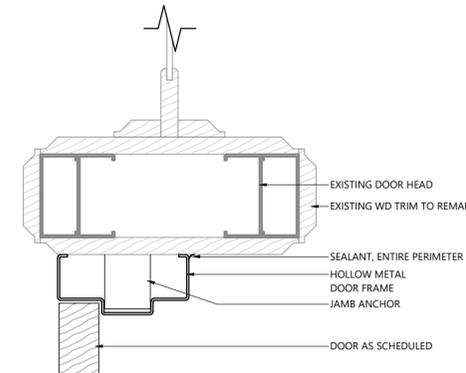
**2 JAMB DETAIL**  
3" = 1'-0"



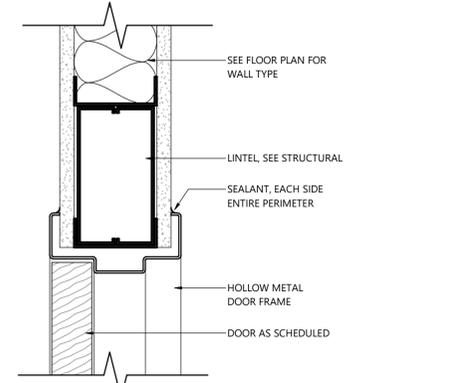
**4 JAMB DETAIL**  
3" = 1'-0"



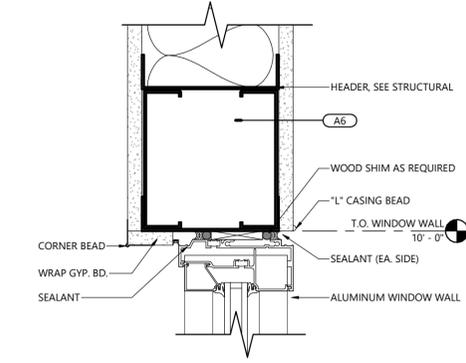
**6 STOREFRONT JAMB DETAIL**  
3" = 1'-0"



**3 HEAD DETAIL**  
3" = 1'-0"



**5 HEAD DETAIL**  
3" = 1'-0"



**7 STOREFRONT HEAD DETAIL**  
3" = 1'-0"

WINDOW & STOREFRONT SCHEDULE									
W##	FRAME			DETAIL # / SHEET #			COMMENTS		
	TYPE	FINISH	HEAD	JAMB	SILL				
W12CA	AL03	FACTORY	6/A9.11	5/A9.11	4/A9.11				
W12CB	AL01	FACTORY	6/A9.11	5/A9.11	4/A9.11				
W12CC	AL01	FACTORY	6/A9.11	5/A9.11	4/A9.11				
W12E	AL02	FACTORY	6/A9.11	5/A9.11	4/A9.11				
W12FA	AL01	FACTORY	6/A9.11	5/A9.11	4/A9.11				
W12FB	AL01	FACTORY	6/A9.11	5/A9.11	4/A9.11				
W12FC	AL07	FACTORY	3/A9.11	2/A9.11	1/A9.11				
W201	AL05	FACTORY	9/A9.11	8/A9.11	7/A9.11				
W202	AL05	FACTORY	9/A9.11	8/A9.11	7/A9.11	ALTERNATE #1			



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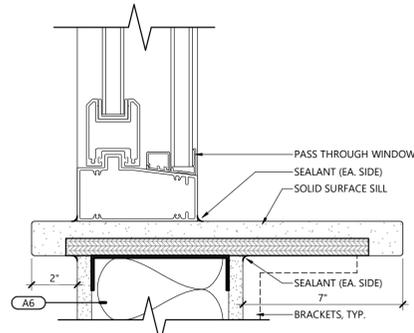
DRAWN BY:  
MW / AB  
 CHECKED BY:  
KL

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA  
 Karl Larsen LIC # 54398 DATE: 02-12-26

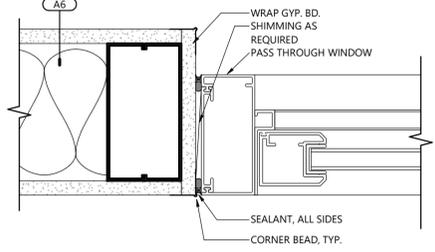
DATE	REV#	REVISIONS DESCRIPTION

**Houston Elementary School Safe Entrance Addition**  
 DOOR AND FRAME TYPES AND SCHEDULES

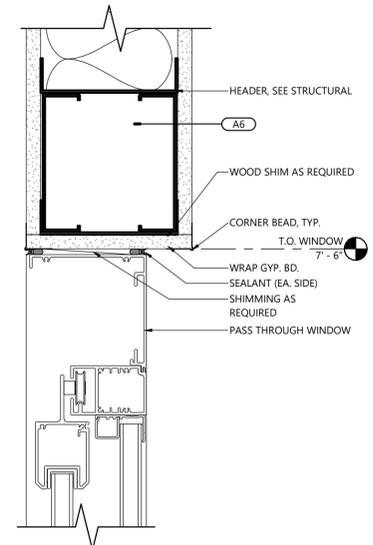
**A9.10**  
 PROJECT #: 2025-11441



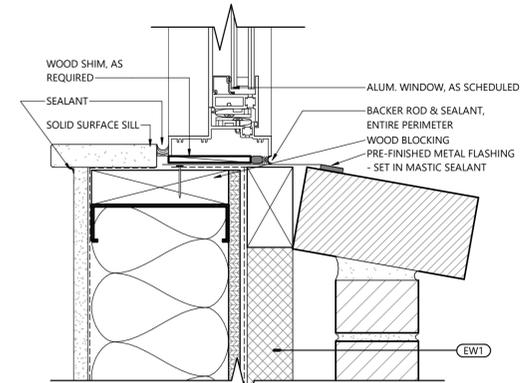
1 PASS THROUGH SILL DETAIL  
3" = 1'-0"



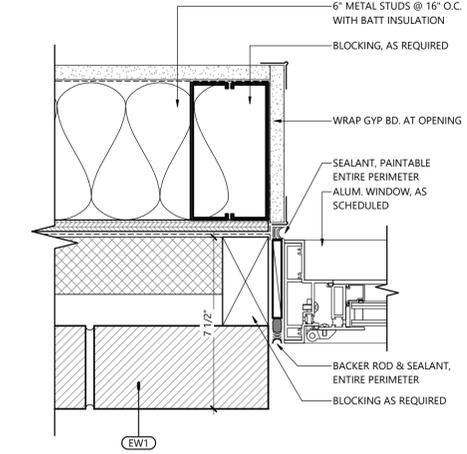
2 PASS THROUGH JAMB DETAIL  
3" = 1'-0"



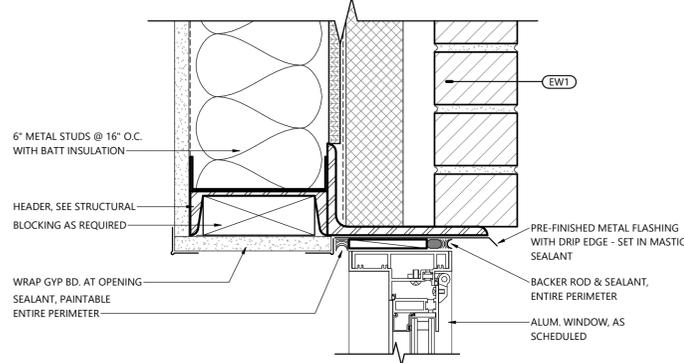
3 PASS THROUGH HEAD DETAIL  
3" = 1'-0"



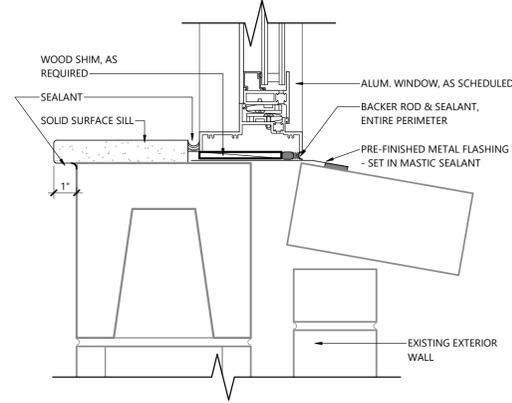
4 WINDOW SILL DETAIL  
3" = 1'-0"



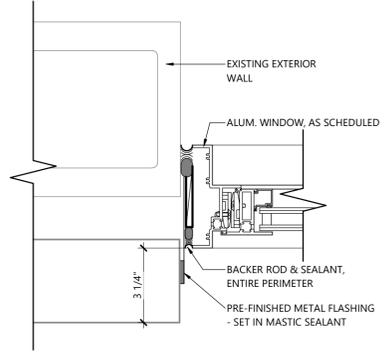
5 WINDOW JAMB DETAIL  
3" = 1'-0"



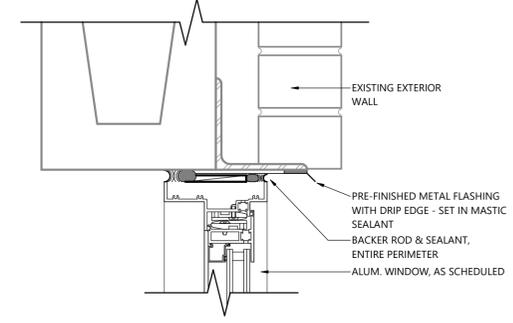
6 WINDOW HEAD DETAIL  
3" = 1'-0"



7 WINDOW SILL @ EXIST. OPNG.  
3" = 1'-0"



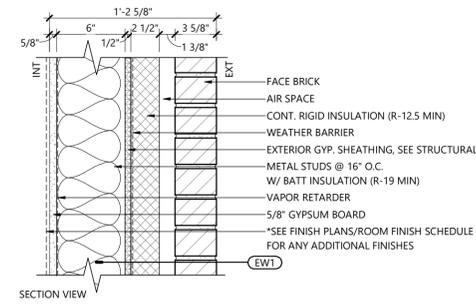
8 WINDOW JAMB @ EXIST. OPNG.  
3" = 1'-0"



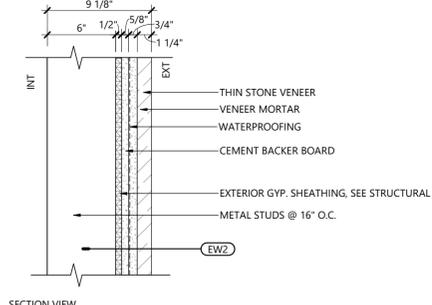
9 WINDOW HEAD @ EXIST. OPNG.  
3" = 1'-0"

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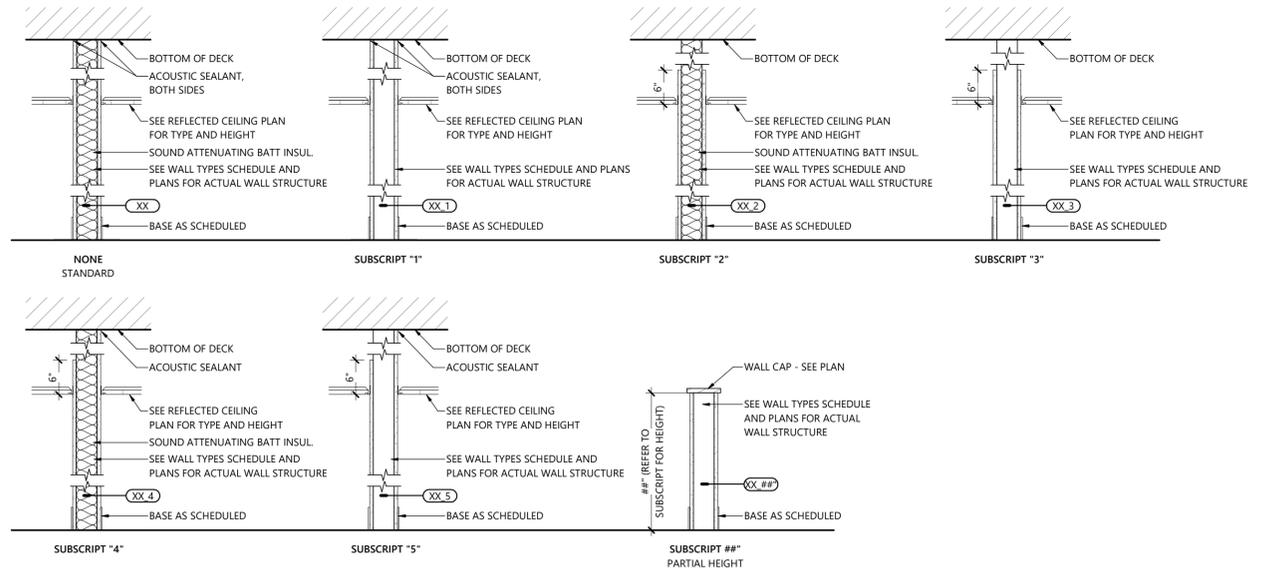
DATE	REV#	REVISIONS DESCRIPTION



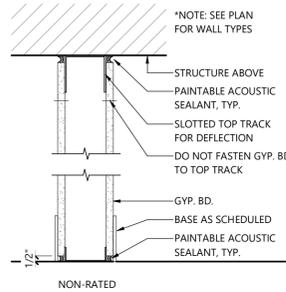
**EW1 EXTERIOR METAL STUD WALL WITH BRICK**  
 • METAL STUDS @ 16" O.C. (U.N.O.)  
 • SEE SCHEDULE FOR SIZES  
 • GYPSUM BOARD ASSEMBLY  
 • NONCOMBUSTIBLE



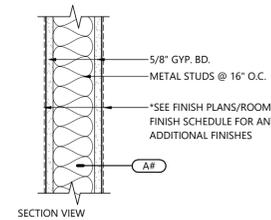
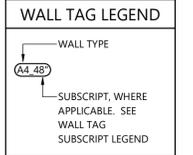
**EW2 EXTERIOR METAL STUD WALL WITH STONE VENEER**  
 • METAL STUDS @ 16" O.C. (U.N.O.)  
 • SEE SCHEDULE FOR SIZES  
 • NONCOMBUSTIBLE



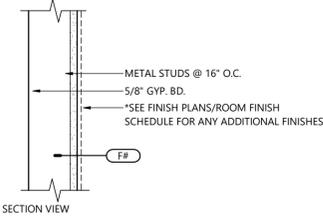
WALL TAG SUBSCRIPT LEGEND



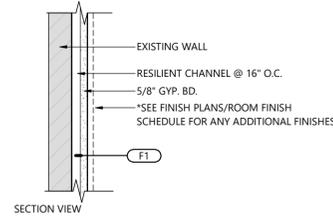
TYP. WALL BASE & TOP DETAILS



**A# A-SERIES: INT METAL STUD PARTITION**  
 • METAL STUDS @ 16" O.C. (U.N.O.)  
 • SEE SCHEDULE FOR SIZES  
 • GYPSUM BOARD ASSEMBLY  
 • NONCOMBUSTIBLE  
 • NON-LOAD BEARING  
 • DIMENSION TO THE CENTERLINE OF STUD



**F# F-SERIES: INT MTL STUD FURRING WALL**  
 • METAL STUDS @ 16" O.C. (U.N.O.)  
 • SEE SCHEDULE FOR SIZES  
 • NON-COMBUSTIBLE  
 • GYPSUM BOARD ASSEMBLY, SINGLE SIDE  
 • DIMENSION TO THE CENTERLINE OF STUD

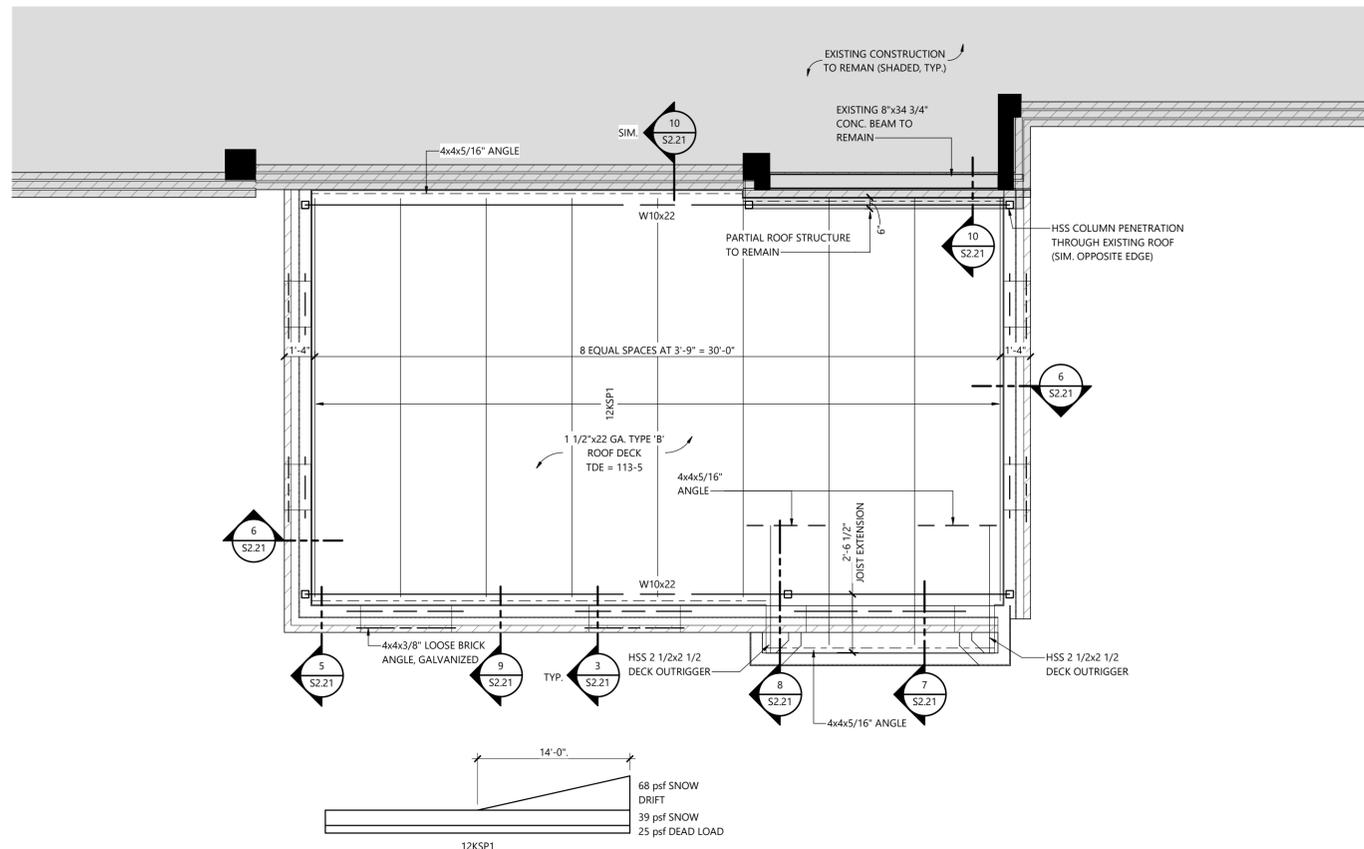


**F1 F-SERIES: INT RESILIENT CHANNEL FURRING WALL**  
 • RESILIENT CHANNEL @ 16" O.C. (U.N.O.)  
 • SEE SCHEDULE FOR SIZES  
 • NON-COMBUSTIBLE  
 • GYPSUM BOARD ASSEMBLY, SINGLE SIDE  
 • DIMENSION TO THE CENTERLINE OF STUD

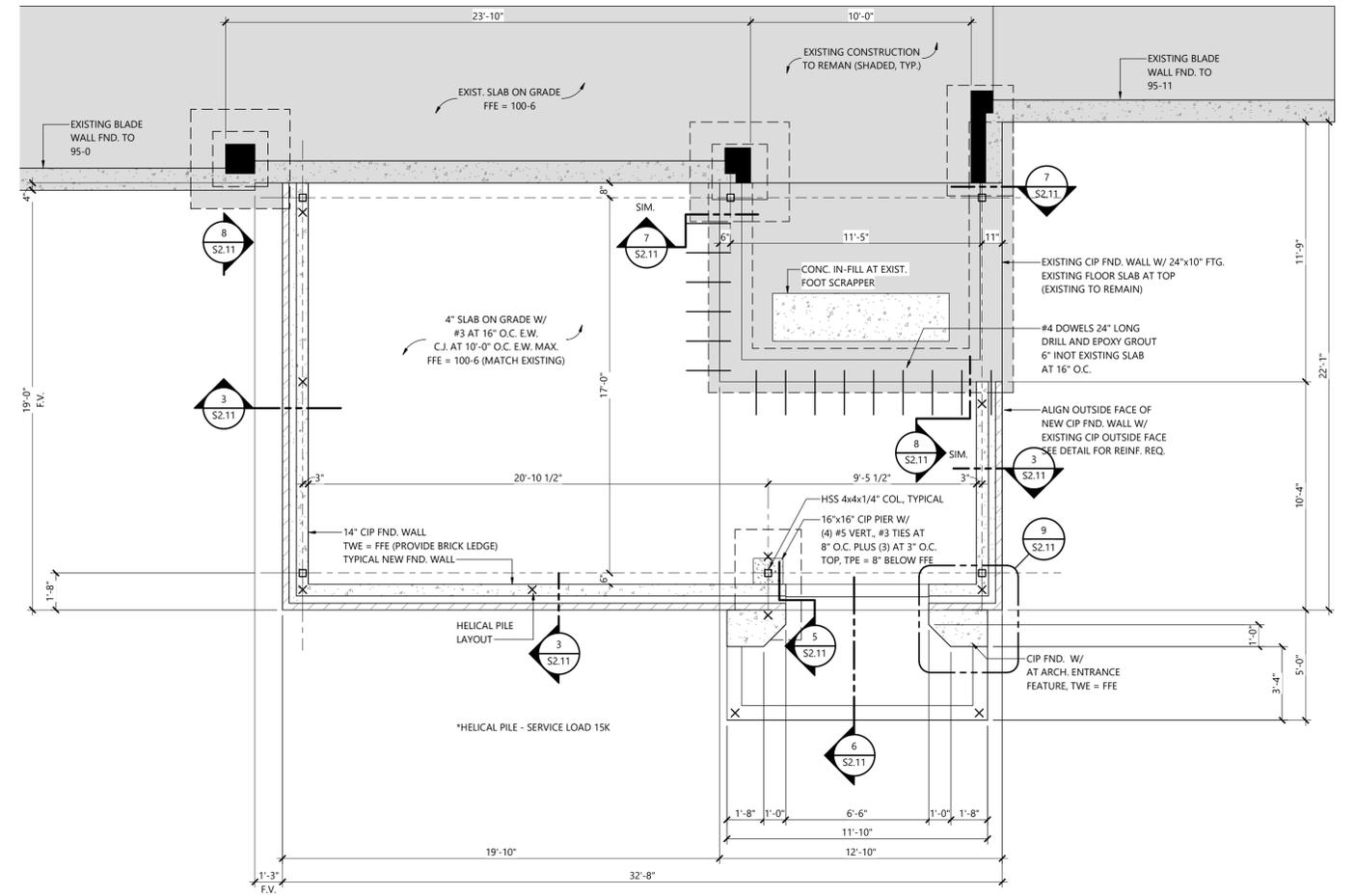
WALL TAG	DESCRIPTION	STRUCTURE		OVERALL WIDTH	COMMENTS
		MATERIAL	WIDTH		
EW1	EXTERIOR 6" MTL STUD WALL W/ BRICK	METAL STUDS	6"	14 5/8"	
EW2	EXTERIOR 6" MTL STUD WALL W/ Stone Veneer	METAL STUDS	6"	9 1/8"	RAINSCREEN SYSTEM
A4	INTERIOR METAL STUD PARTITION	METAL STUDS	3 5/8"	4 7/8"	
A6	INTERIOR METAL STUD PARTITION	METAL STUDS	6"	7 1/4"	
F1	INTERIOR RESILIENT CHANNEL FURRING WALL	METAL STUDS	3/4"	1 3/8"	
F4	INTERIOR METAL STUD FURRING WALL	METAL STUDS	3 5/8"	4 1/4"	
F6	INTERIOR METAL STUD FURRING WALL	METAL STUDS	6"	6 5/8"	



DATE	REV#	REVISIONS DESCRIPTION



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



1 FOOTING AND FOUNDATION PLAN  
1/4" = 1'-0"

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2025-11441 HOUSTON ELEMENTARY SCHOOL SAFE ENTRANCE ADDITION

DATE	REV#	REVISIONS DESCRIPTION

**STRUCTURAL NOTES**

**I. DESIGN DATA**

- A. BUILDING CODES**
- INTERNATIONAL BUILDING CODE - 2018
  - MINNESOTA BUILDING CODE - 2020
  - AMERICAN CONCRETE INSTITUTE 318-11
  - N.C.M.A. SPECIFICATION FOR THE DESIGN & CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 14th EDITION
  - CRSI, MANUAL OF STANDARD PRACTICE
- B. DESIGN LOADS**
- | 1. WIND LOAD:               | EXPOSURE | C       |
|-----------------------------|----------|---------|
| DESIGN WIND SPEED, ULTIMATE |          | 115 MPH |
| RISK CATEGORY               |          | III     |
- 2. ROOF LOADS**
- a. GROUND SNOW LOAD
- |             |        |
|-------------|--------|
| $I = 1.1$   | 50 PSF |
| $C_e = 1.0$ |        |
| $C_t = 1.0$ |        |
- b. ROOF SNOW LOAD
- |                            |    |
|----------------------------|----|
| PSF FLAT ROOF (+ DRIFTING) | 39 |
|----------------------------|----|
- c. DEAD LOAD
- |     |    |
|-----|----|
| PSF | 25 |
|-----|----|
- d. UPLIFT (FOR JOIST DESIGN)
- |     |    |
|-----|----|
| PSF | 15 |
|-----|----|
- 3. FLOOR LIVE LOAD**
- |     |     |
|-----|-----|
| PSF | 100 |
|-----|-----|
- FLOOR DEAD LOAD (SUPERIMPOSED)
- |     |    |
|-----|----|
| PSF | 20 |
|-----|----|
- 4. STAIRS, PUBLIC CORRIDORS, & LOBBIES LIVE LOAD**
- |     |     |
|-----|-----|
| PSF | 100 |
|-----|-----|

**C. SPECIAL INSPECTION**

- OWNER SHALL EMPLOY A SPECIAL INSPECTION AGENCY TO PROVIDE INSPECTION DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 1704 OF THE IBC. SPECIAL INSPECTOR TO PROVIDE FINAL SIGNED REPORT TO OWNER, BUILDING OFFICIAL, AND STRUCTURAL ENGINEER.
- THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION:
- SOILS: SOIL COMPACTION AND VERIFICATION OF BEARING CAPACITY
  - STEEL: PERIODIC INSPECTION OF HIGH STRENGTH BOLTS AND WELDING
  - CONCRETE: CONCRETE AND REINFORCEMENT PLACEMENT, CONCRETE STRENGTH, SLUMP, AIR TEST.
  - PILE: INSTALLATION TORQUE.

**II. SITE WORK:**

- A. SOIL REPORT**
- FOUNDATIONS, RETAINING AND BASEMENT WALLS, FOUNDATION DRAINAGE, SLABS ON GRADE, AND OTHER ITEMS RELATED TO THE SOILS ARE DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF CHOSEN VALLEY TESTING REPORT NO. 26384.25 MNR DATED JANUARY 6, 2026.
  - DESIGN NET SOIL BEARING CAPACITY IS AS FOLLOWS:

a. SPREAD FOOTINGS	2,000 PSF
b. STRIP FOOTINGS	2,000 PSF

  - CONTRACTOR TO HAVE BOTTOM OF EXCAVATION INSPECTED BY SOILS ENGINEER PRIOR TO CASTING FOOTINGS TO VERIFY SOIL BEARING CAPACITY.
  - MINIMUM DEPTH FROM EXTERIOR GRADE TO BOTTOM OF BUILDING PERIMETER FOUNDATION SHALL BE 5'-0". ALL OPEN AIR FOUNDATIONS SHALL HAVE A MINIMUM OF 5'-0" OF FROST PROTECTION.
  - BACKFILL EVENLY ON EACH SIDE OF WALLS IN 8" LIFTS TO A MINIMUM OF 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY.
  - FOOTINGS TO BEAR ON UNDISTURBED, UNFROZEN SOIL. FILL BELOW FOOTINGS SHALL BE PLACED IN 9" LIFTS AND COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM STANDARD PROCTOR DENSITY.

**III. CONCRETE:**

- A. CONCRETE MATERIAL PROPERTIES**
- | 1. CONCRETE PROPERTIES    | FC PSI    | SLUMP   |
|---------------------------|-----------|---------|
|                           | 28 DAYS   | INCHES  |
| a. FOOTINGS, WALLS        | 3,000 PSI | 3" - 4" |
| b. INTERIOR SLAB ON GRADE | 4,000 PSI | 3" - 4" |
| c. EXTERIOR SLAB ON GRADE | 4,000 PSI | 3" - 4" |
2. ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED TO GIVE THE CONCRETE AN AIR CONTENT OF 5% - 8% BY VOLUME.
3. CONCRETE MIX DESIGNS AND SUPPORTIVE DATA MUST BE SUBMITTED FOR APPROVAL ACCORDING TO ACI 318-11, SECTION 5.3. SEE SPECIFICATIONS FOR MORE INFORMATION.
- B. REINFORCING MATERIAL PROPERTIES**
- |                                | FY, KSI | ASTM |
|--------------------------------|---------|------|
| 1. ALL BARS UNLESS NOTED       | 60      | A615 |
| 2. WELDED WIRE FABRIC (SMOOTH) | 65      | A185 |

- C. CAST IN PLACE CONCRETE**
- ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED ACCORDING TO CRSI "MANUAL OF STANDARD PRACTICE". PROVIDE CORNER BARS AT ALL WALLS. MATCH SIZE AND SPACING OF HORIZONTAL BARS IN WALL.
  - SLABS AND FOOTINGS TO BEAR ON COMPACTED, UNFROZEN SOIL.
  - PROVIDE SAW CUT CONTROL JOINTS AT 10'-0" O.C. E.W. OR AS INDICATED ON PLAN SHEETS. CUT TO BE 3/16" WIDE AND 1 1/2" DEEP. CUT TO BE MADE WITHIN 24 HOURS AFTER POURING SLAB.
  - THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

	MINIMUM COVER IN.
a. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
b. CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #11 BARS	2
#5 BAR AND SMALLER	1 1/2
c. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS	3/4
BEAMS, COLUMNS, PRIMARY REINFORCEMENT, TIES, STIRRUPS	1 1/2

  - CONSTRUCTION JOINTS TO BE DOWELED OR KEED. PROVIDE DETAIL TO ENGINEER FOR APPROVAL.

**IV. STEEL**

- A. MATERIAL STRENGTHS**
- |   | FY, PSI | ASTM          |
|---|---------|---------------|
| 1. STRUCTURAL SHAPES  | 50,000  | A992          |
| 2. HIGH STRENGTH BOLTS, UNLESS NOTED                          | 74,000  | A325          |
| 3. ANCHOR BOLTS (TENSILE STRENGTH)                            | 60,000  | A307          |
| 4. WELDING ELECTRODES   | E70XX   | A233          |
| 5. DECK WELDING ELECTRODES                                    | E60XX   | A233          |
| 6. STRUCTURAL TUBES   | 46,000  | A500, GRADE B |
| 7. PLATES, ANGLES, ETC.                                       | 36,000  | A36           |
| 8. HEADED STUDS   | 50,000  | A108          |
| 9. EXPANSION BOLTS SHALL BE HILTI QUIK BOLT II OR EQUIVALENT. |         |               |

- B. STRUCTURAL STEEL**
- AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC "CODE OF STANDARD PRACTICE" FOURTEENTH EDITION APPLY EXCEPT AS OTHERWISE NOTED.
  - STRUCTURAL STEEL SUPPLIER IS RESPONSIBLE FOR AND SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT FOR THE DESIGN OF ALL CAP PLATES, BEARING PLATES, BASE PLATES, STIFFENERS, SPLICES, AND CONNECTIONS UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS.
  - STRUCTURAL STEEL SUPPLIERS SHALL FURNISH BOLTS FOR O.S.H.A. CONNECTIONS.
  - PROVIDE PROTECTIVE ASPHALTIC COATING OR EQUAL AROUND STRUCTURAL STEEL BELOW GRADE.
  - CAMBERS SHOWN REFLECT THE IN-PLACE ERECTED, BEAM DEAD LOAD CONDITION. CAMBERS SHALL BE INCREASED ACCORDINGLY BY STRUCTURAL STEEL SUPPLIER TO ACCOUNT FOR LOSS OF CAMBER DUE TO CAMBERING PROCESS. SINGLE POINT CAMBERING WILL NOT BE ALLOWED.
  - THIS STRUCTURE IS A NON-SELF SUPPORTING STEEL FRAME REQUIRING INTERACTION WITH OTHER ELEMENTS TO PROVIDE THE REQUIRED STABILITY. THE STEEL ERECTOR SHALL PROVIDE TEMPORARY SUPPORTS UNTIL FINAL STABILITY IS PROVIDED. AS A MINIMUM, TEMPORARY SUPPORTS SHALL BE PROVIDED AT EACH GRID IN BOTH DIRECTIONS.
  - ALL BOLTED CONNECTIONS, UNLESS NOTED OTHERWISE, SHALL BE 3/4" A325 BEARING-TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE AND AS SUCH NEED BE TIGHTENED IN PROPERLY ALIGNED HOLES TO A SNUG-TIGHT CONDITION AS DEFINED BY THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS.
  - SHEAR CONNECTORS SHALL BE 3/4"Ø BY 3 1/2" LONG, HEADED STUDS OR EQUIVALENT PER AISC SPECIFICATION. STUDS SHALL BE FIELD WELDED TO THE TOP FLANGE OF THE BEAMS THROUGH THE STEEL DECK UNITS.
  - ALL WELDING SHALL BE IN STRICT ACCORDANCE TO THE CURRENT SPECIFICATION OF THE A.W.S.

**C. STEEL JOISTS**

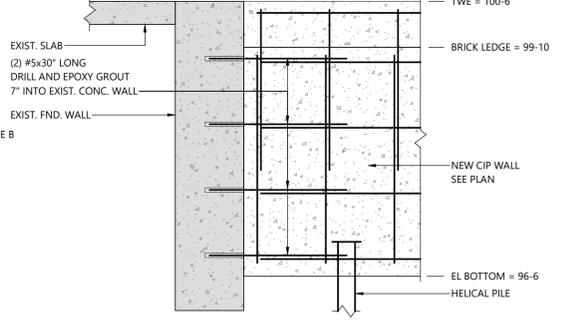
- ALL STEEL JOISTS MUST MEET OR EXCEED THE STEEL JOIST INSTITUTE (S.J.I.) STANDARD SPECIFICATIONS AND LOAD TABLES, EXCEPT AS OTHERWISE NOTED.
- STEEL JOIST SUPPLIER SHALL FURNISH ALL BRIDGING, WALL ANCHORS, HEADERS AND CHORD EXTENSIONS, ETC. AS NECESSARY TO PROVIDE A COMPLETE INSTALLATION.
- PLACEMENT OF MECHANICAL UNITS AND HANGARS SUPPORTED BY ROOF OR FLOOR JOIST IS SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
- THE JOIST MANUFACTURER IS RESPONSIBLE FOR AND SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL. A CERTIFIED LETTER STATING ALL STANDARD JOISTS CONFORM TO S.J.I. SPECIFICATIONS SHALL BE SUBMITTED. CERTIFIED CALCULATIONS BY AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT SHALL BE SUBMITTED FOR ALL JOIST GIRDERS AND ALL SPECIAL JOISTS.
- THE DESIGN OF ALL JOIST AND GIRDER MEMBERS AND ELEMENTS SHOWN ON THE DRAWINGS ARE FOR THE IN-PLACE COMPLETED BUILDING. ALL LOADING CRITERIA AND VERIFICATION OF DESIGN FOR LOADING SUCH AS HANDLING, TRANSPORTATION, AND ERECTION ARE THE SOLE RESPONSIBILITY OF THE JOIST MANUFACTURER.
- SPECIAL JOISTS SHALL BE DESIGNED FOR THE LOADS INDICATED ON THE DRAWINGS.

**D. STEEL DECK**

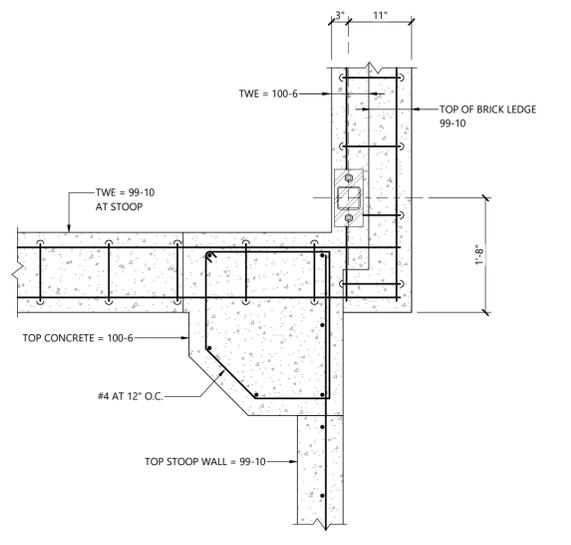
- ALL STEEL DECKS SHALL CONFORM TO THE STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS, EXCEPT AS OTHERWISE NOTED.
- ROOF DECK SHALL BE A MINIMUM 22 GAUGE, 1 1/2" DEEP, TYPE B, WIDE RIB, MINIMUM  $I_x = 167 \text{ IN}^4$ , MINIMUM  $S_x = 186 \text{ IN}^3$ ,  $S_y = 194 \text{ IN}^3$ , PER FOOT OF WIDTH. DECK SHALL BE CONTINUOUS OVER THREE SPANS MINIMUM. MINIMUM YIELD STRESS SHALL BE 33,000 PSI. MINIMUM ALLOWABLE DIAPHRAGM SHEAR SHALL BE 165 PLF. DECK SUPPLIER SHALL SUBMIT ICBO REPORTS SHOWING ALLOWABLE DIAPHRAGM SHEAR VALUES. ERECT IN ACCORDANCE WITH THE REPORT TO MEET THE REQUIRED SHEAR SPECIFIED ABOVE, EXCEPT THAT IN NO CASE SHALL CONNECTION TO FRAMING MEMBERS BE LESS THAN THAT SHOWN ON THE DRAWINGS.

**E. LIGHT GAGE METAL STUD FRAMING**

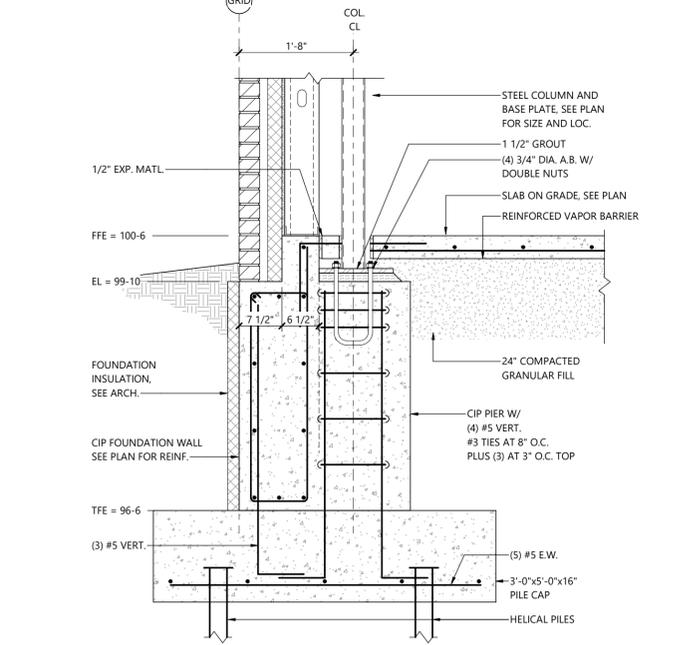
- STUD DESIGNATION AND RELATED ACCESSORIES AND ATTACHED DETAILS ARE FOR UNITED STATES GYPSUM. OTHER MANUFACTURERS SHALL FURNISH ELEMENTS OF EQUAL OR GREATER SECTION PROPERTIES, MATERIAL STRENGTHS, AND STIFFNESS.  $F_y = 40 \text{ KSI}$  (MINIMUM).
- STUDS RESIST WIND LOAD ONLY AND PROVIDE LATERAL STABILITY FOR EXTERIOR MATERIALS.
- THE ATTACHED DETAILS ARE INTENDED TO EXPRESS THE MINIMUM DESIGN PERFORMANCE. ALTERNATE DETAILS OF EQUIVALENT CAPACITY WILL BE CONSIDERED BY THE ENGINEER FOR APPROVAL. THIS APPROVAL WILL BE SUBJECT TO THE REVIEW OF THE FINAL DETAILED SHOP DRAWINGS AND RELATED DESIGN CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.
- PROVIDE DOUBLE STUDS AT ALL WINDOW JAMBS UNLESS NOTED OTHERWISE. STITCH WELDS TOGETHER AT 12" ON CENTER.
- SCREW ALL STEEL SECTIONS AT WINDOWS HEADS AND SILLS TO JAMB STUDS WITH MINIMUM OF ONE SCREW EACH SIDE EACH MEMBER.
- SECURELY ANCHOR EACH STUD TO RUNNERS WITH FOUR #10 SCREWS, TWO TOP AND TWO BOTTOM, WITH ONE SCREW IN EACH FLANGE, UNLESS NOTED OTHERWISE.
- ALIGN RUNNER TRACK ACCURATELY AND SECURE TO BASE AND HEAD WITH FASTENERS AS SHOWN ON THE DRAWINGS, OR EQUIVALENT, OR AS NOTED IN THE MANUFACTURER'S STANDARD SPECIFICATION BUT AT NO TIME SHALL THE SPACING EXCEED 24" O.C.
- SELF-DRILLING OR SELF-TAPPING MINIMUM 1/2" TYPE S-12 SCREWS MAY BE USED IN LIEU OF WELDING FOR ASSEMBLING STEEL STUD WALLS. ONE SCREW MAY BE SUBSTITUTED FOR EACH WELD UNLESS NOTED OTHERWISE.



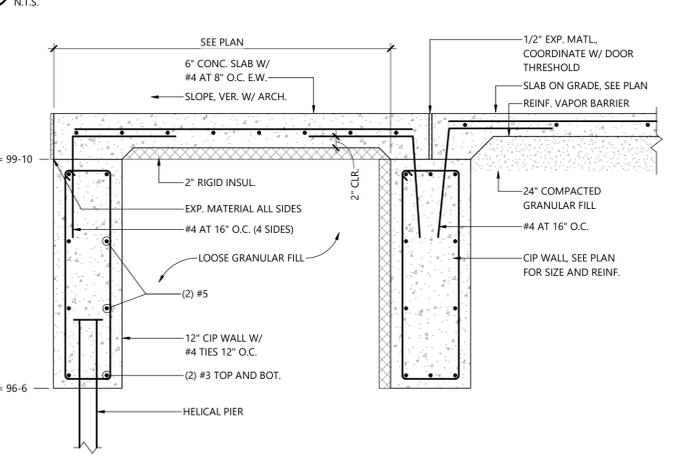
**8 NEW CIP FND AT EXIST CIP FND**  
N.T.S.



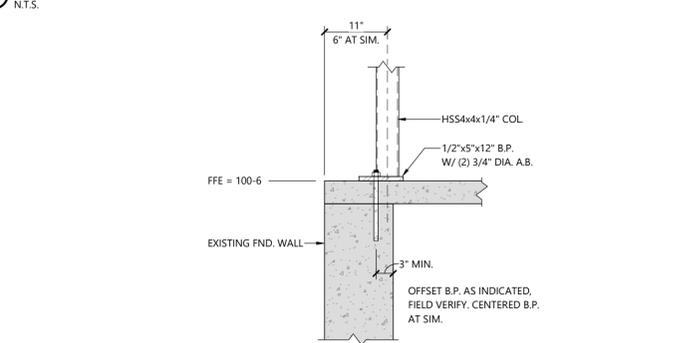
**9 FOUNDATION AT STOOP (PLAN VIEW)**  
N.T.S.



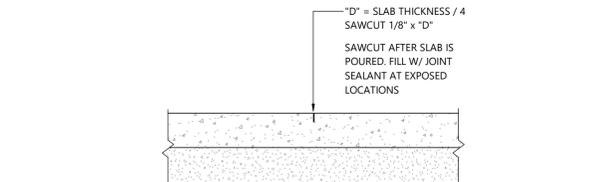
**5 CIP PIER AND COL AT CIP WALL**  
N.T.S.



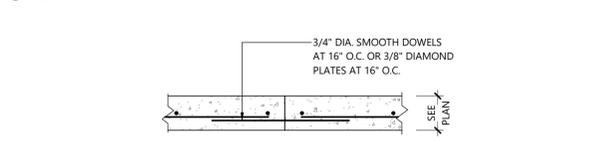
**6 CIP STOOP AT CIP WALL**  
N.T.S.



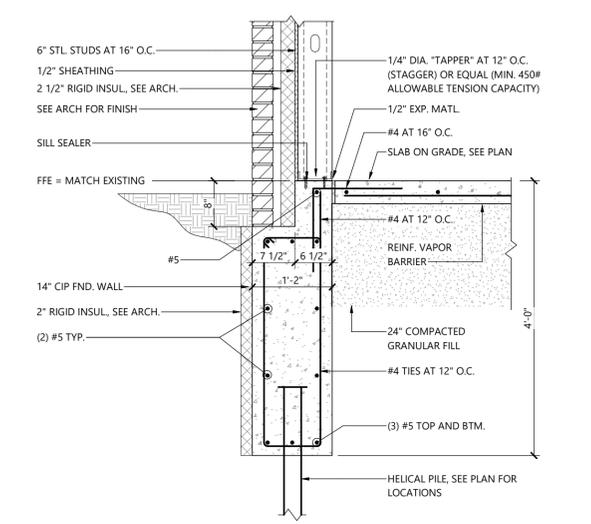
**7 COL AT EXIST FND WALL**  
N.T.S.



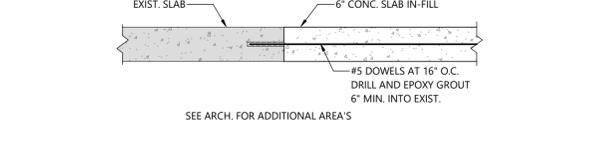
**1 CONTROL JOINT**  
N.T.S.



**2 CONSTRUCTION JOINT**  
N.T.S.



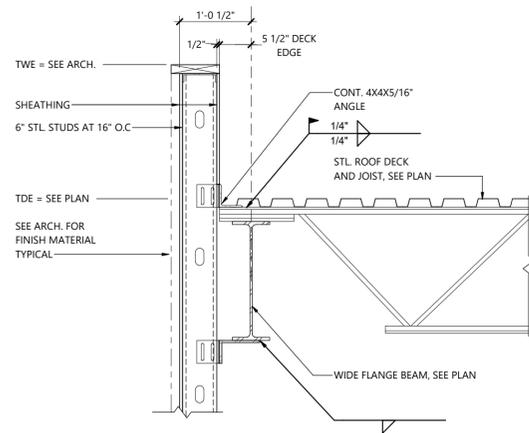
**3 14\"/>**



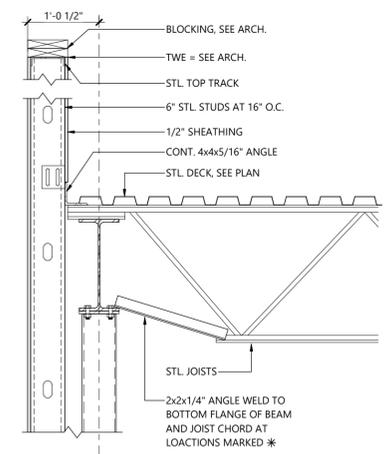
**4 SLAB IN-FILL AT EXIST**  
N.T.S.

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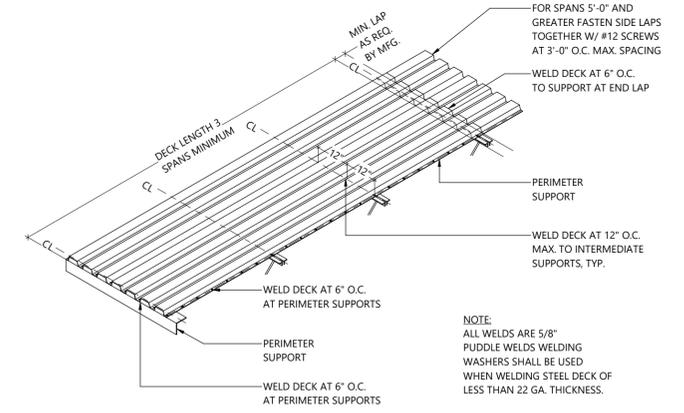
2025-11441 HOUSTON ELEMENTARY SCHOOL SAFE ENTRANCE ADDITION



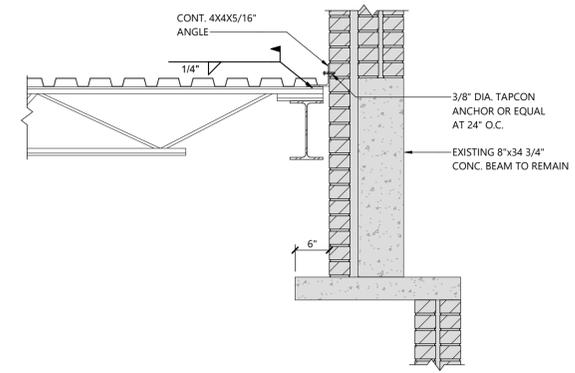
**9 ROOF JOIST FRAMING AT BEAM BRG**  
N.T.S.



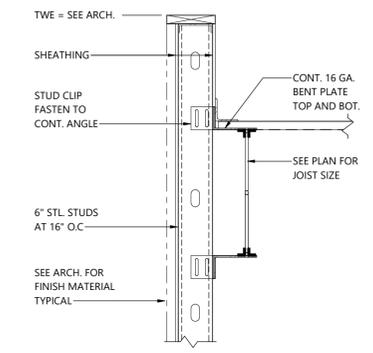
**5 JOIST BRG AT BEAM / COL**  
N.T.S.



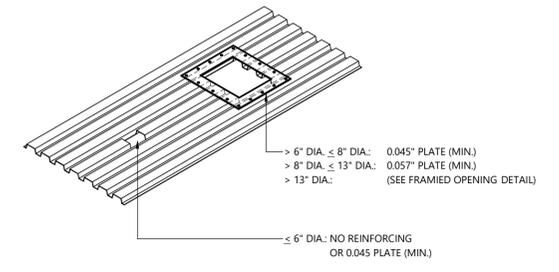
**1 ROOF DECK WELDING**  
N.T.S.



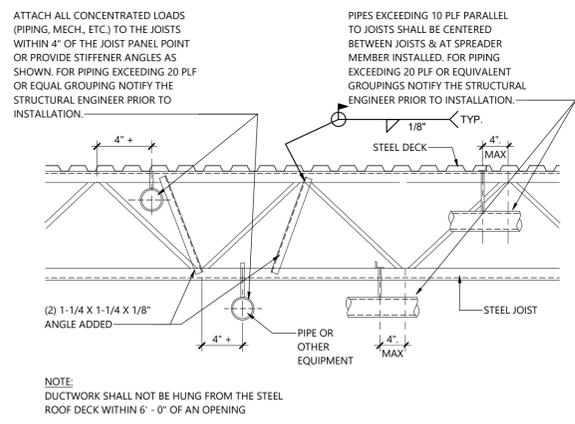
**10 ROOF FRAMING AT EXISTING**  
N.T.S.



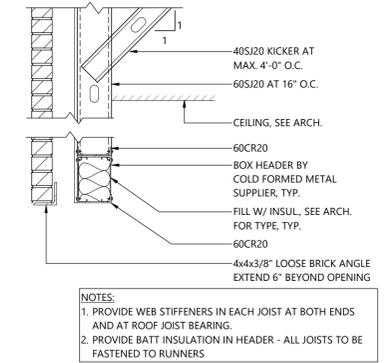
**6 FRAMING AT SIDE WALL**  
N.T.S.



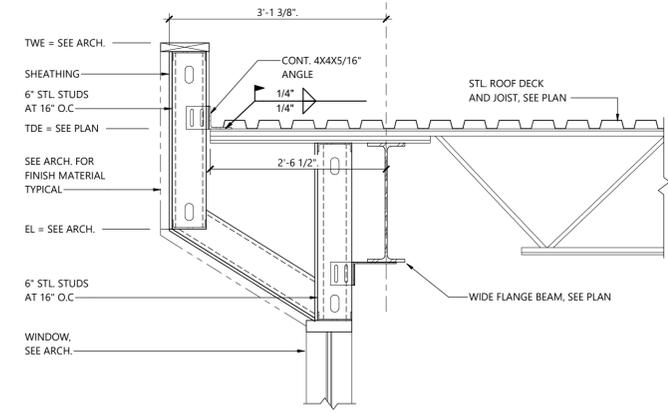
**2 REINF OPENING AT ROOF DECK**  
N.T.S.



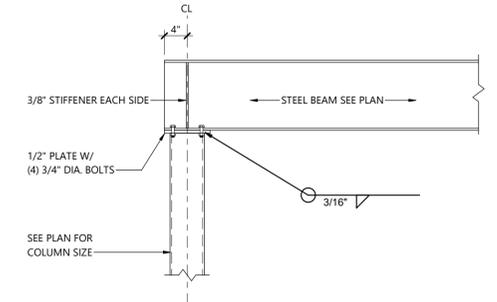
**11 HANGER REQ AT STL JOIST**  
N.T.S.



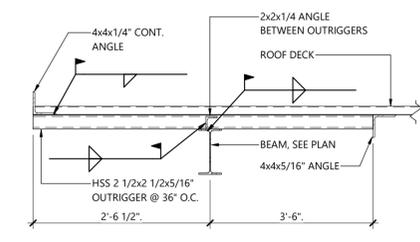
**3 BOX BEAM HEADER**  
N.T.S.



**7 ROOF JOIST EXTENSION AT BEAM**  
N.T.S.



**4 WIDE FLANGE AT HSS COL**  
N.T.S.



**8 OUTRIGGER AT CANOPY GABLE**  
N.T.S.

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MECHANICAL AND PLUMBING SYMBOLS table with columns: MECHANICAL ABBREVIATIONS, MECH EQUIPMENT ABBREVIATIONS, VALVE ABBREVIATIONS, VALVES & PIPING SYMBOLS, VALVES & PIPING SYMBOLS, HVAC SYSTEMS, MECHANICAL SYMBOLS, AIR TERMINAL TAGS, PIPING SYSTEMS - MECHANICAL, PIPING SYSTEMS - PLUMBING, GENERAL SYMBOLS, PLUMBING FIXTURE ABBREVIATIONS.

SHEET INDEX table with columns: SHEET #, SHEET NAME, listing sheets MT1.1.1 through ME1.1.1.

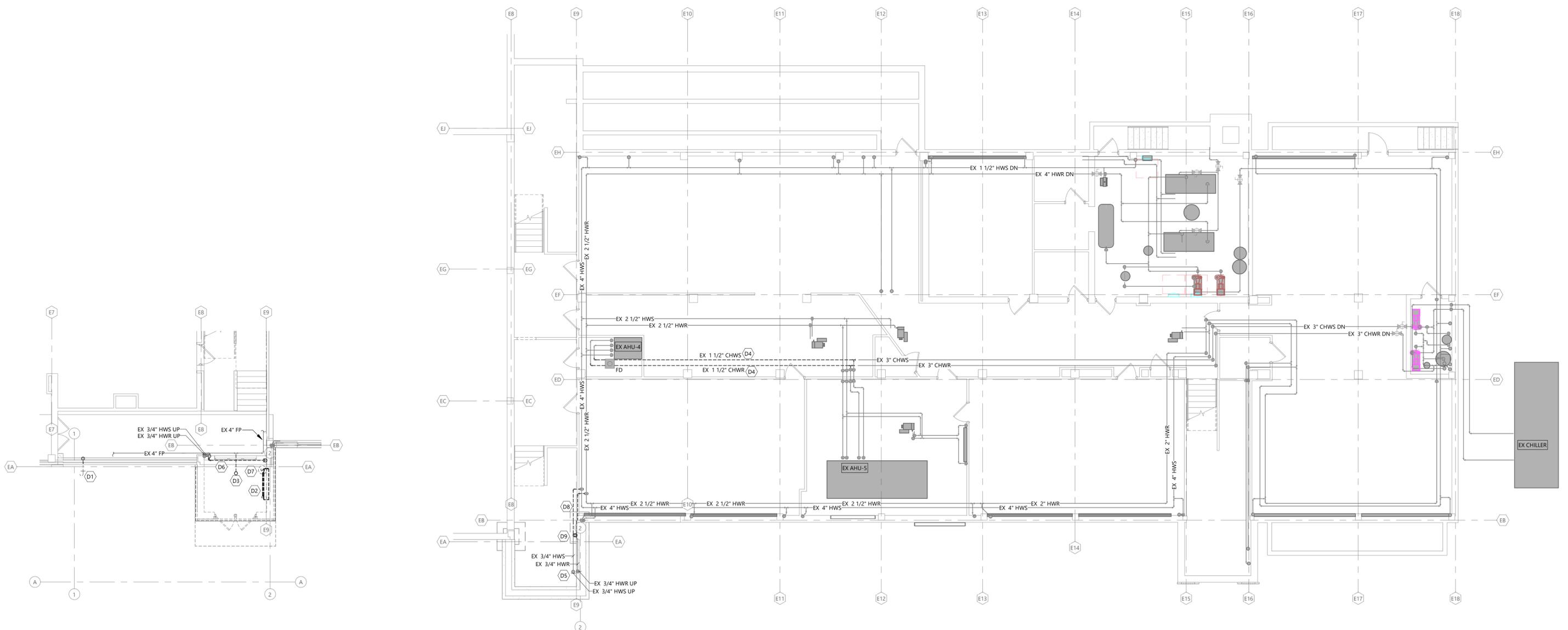
GENERAL NOTES table with rows A through W, detailing construction and installation requirements for HVAC and plumbing systems.

HVAC NOTES table with rows A through W, detailing specific HVAC system requirements and safety protocols.

PLUMBING NOTES table with rows A through P, detailing plumbing installation and safety requirements.

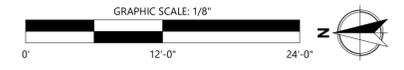
GENERAL DEMOLITION NOTES	
A	CONTRACTOR SHALL COORDINATE WITH OWNER AND OTHER TRADES IN ORDER TO AVOID INTERFERENCE.
B	CONTRACTOR SHALL VERIFY EXISTING SIZES, FUNCTIONS, LOCATIONS AND CONDITIONS PRIOR TO BID. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
C	MATERIALS REMOVED BY THIS CONTRACTOR SHALL BE REVIEWED BY THE OWNER. MATERIAL NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES. MATERIAL THE OWNER ELECTS TO KEEP SHALL BE HAULED TO (BY THIS CONTRACTOR) AND STORED IN A LOCATION DETERMINED BY THE OWNER.
D	WHEN REMOVING EXISTING EQUIPMENT AS SHOWN AND AS NOTED, PIPING, WIRING, TUBING, DUCTWORK, AND ANY OTHER CONNECTIONS SHALL BE CAPPED AIRTIGHT BELOW FLOORS, INSIDE WALLS AND/OR ABOVE CEILINGS. CONCEALED ITEMS NOT TO BE REUSED MAY BE ABANDONED IF DISCONNECTED FROM THE SYSTEM. EXISTING EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: PLUMBING FIXTURES, TEMPERATURE CONTROLS, CONTROL WIRING, HVAC EQUIPMENT AND ANY OTHER DEMOLITION WORK. THE FLOORS, WALLS, AND/OR CEILINGS SHALL BE PATCHED TO MATCH THE EXISTING CONDITIONS BY THE MECHANICAL CONTRACTOR.
E	UPON COMPLETION OF MODIFICATION AND / OR REMOVAL OF TEMPERATURE CONTROL COMPONENTS, THE REMAINING MODIFIED TEMPERATURE CONTROL SYSTEM IS TO BE OPERATIONAL. CONTRACTOR TO VERIFY EXISTING OPERATING CONDITIONS PRIOR TO MODIFICATION.

KEYED DEMO PLAN NOTES	
D#	DESCRIPTION
D1	DEMOLISH AND REMOVE EXISTING HOSE BIB AND ASSOCIATED CW PIPE AND VALVE. CAP AND ABANDON REMAINING PIPING. FIELD VERIFY EXISTING PIPE LOCATION.
D2	DISCONNECT EXISTING CUH AND PREPARE FOR IT TO BE REINSTALLED. DEMOLISH AND REMOVE PIPING AND CONTROLS AS NECESSARY.
D3	REMOVE FIRE PROTECTION SPRINKLER HEAD AND RELATED PIPE.
D4	FIELD VERIFY REQUIRED DEMOLITION OF CHILLED WATER PIPING WITH SPACE AVAILABLE AS REQUIRED FOR NEW PIPING.
D5	HWS/HWR PIPING UP TO EX CHU-1, VERIFY PIPING REMOVAL FOR MODIFICATIONS AS NECESSARY.
D6	REMOVE HYDRONIC PIPING FOR WALL MODIFICATIONS AS NECESSARY.
D7	REMOVE LINE VOLTAGE SENSOR.
D8	FIELD VERIFY REQUIRED DEMOLITION OF HYDRONIC WATER PIPING WITH SPACE AVAILABLE AS REQUIRED FOR NEW PIPING.
D9	REMOVE 3/4" HWS/HWR PIPING ROUTED UP FOR WALL MODIFICATION AS NECESSARY.



**1** FIRST LEVEL DEMOLITION MECHANICAL COMBINED PLAN  
1/8" = 1'-0"

**2** BASEMENT LEVEL DEMOLITION MECHANICAL COMBINED PLAN  
1/8" = 1'-0"



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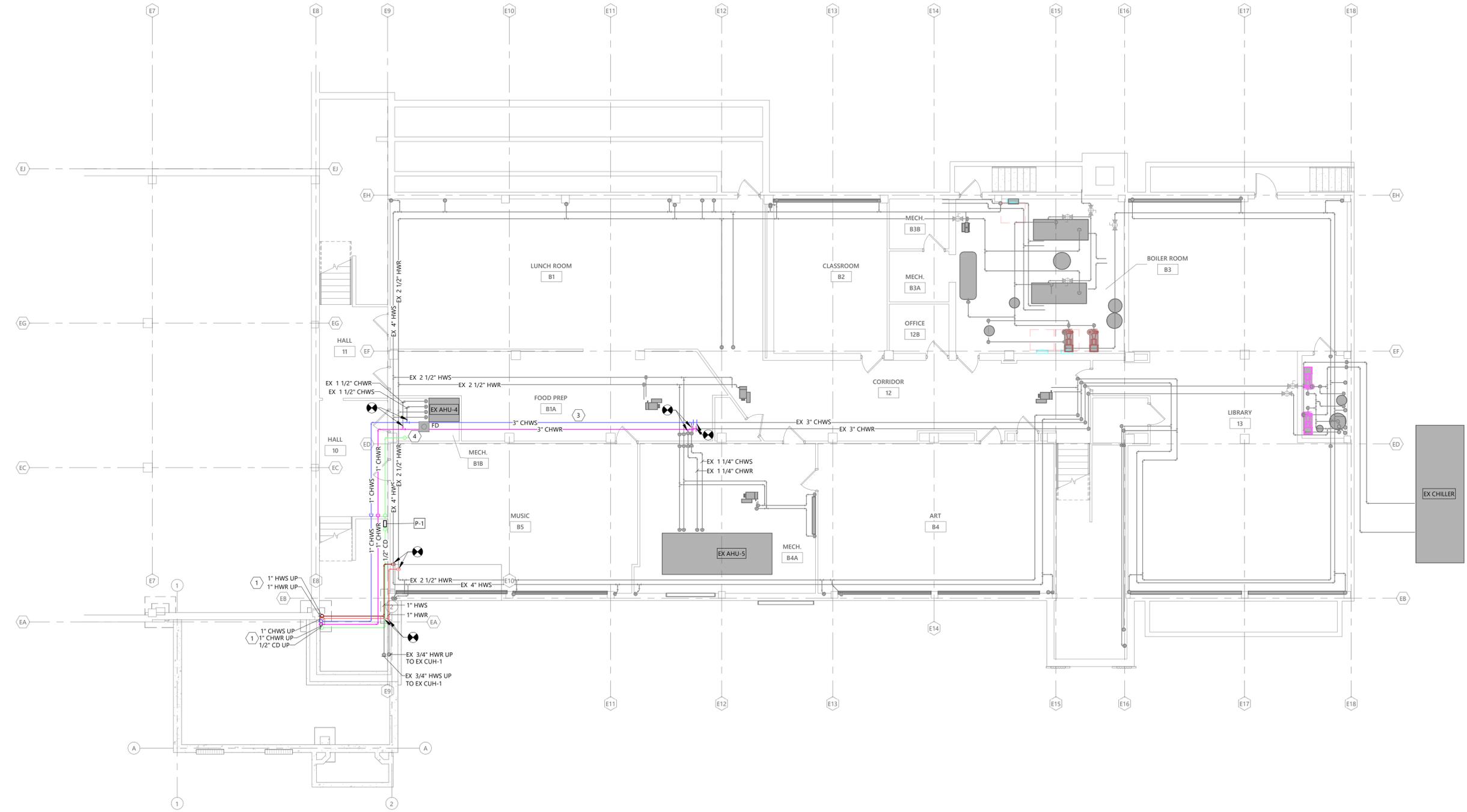
DRAWN BY: SLN  
CHECKED BY: MRW/SJF  
MICHAEL R. WASHBURN LIC # 52709 DATE: 02-12-2026

DATE	REV#	REVISIONS DESCRIPTION

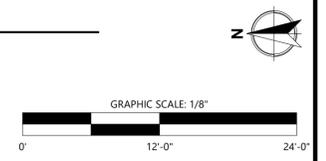
**HOUSTON ELEMENTARY SCHOOL SAFE ENTRANCE ADDITION**  
FIRST LEVEL DEMOLITION MECHANICAL PLAN

**MD1.11**  
PROJECT #: 2025-11441

#	DESCRIPTION
1	COORDINATE PIPE ROUTING UP TO MAIN LEVEL WITH ALL TRADES.
3	FIELD VERIFY REQUIRED WORK FOR NEW CHILLED WATER PIPING WITH SPACE AVAILABLE AS REQUIRED FOR NEW PIPING.
4	ROUTE CONDENSATE TO THE NEAREST FLOOR DRAIN. FIELD VERIFY LOCATION AND ROUTING OF PIPING.



1 BASEMENT LEVEL MECHANICAL COMBINED  
1/8" = 1'-0"



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DRAWN BY:  
SLN  
CHECKED BY:  
MRW/SJF

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA  
*Michael R. Washburn*  
MICHAEL R. WASHBURN LIC # 52709 DATE: 02-12-2026

DATE	REV#	REVISIONS DESCRIPTION

**HOUSTON ELEMENTARY SCHOOL SAFE ENTRANCE ADDITION**  
BASEMENT LEVEL MECHANICAL PLAN

**M1.0**  
PROJECT #: 2025-11441

GRILLES, REGISTERS & DIFFUSERS SCHEDULE					
MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	VOLUME DAMPER	NOTES
RG	EGGCRATE RETURN GRILLE	TITUS	50F		1, 2
SD	PLAQUE FACE DIFFUSER	TITUS	OMNI		1, 2

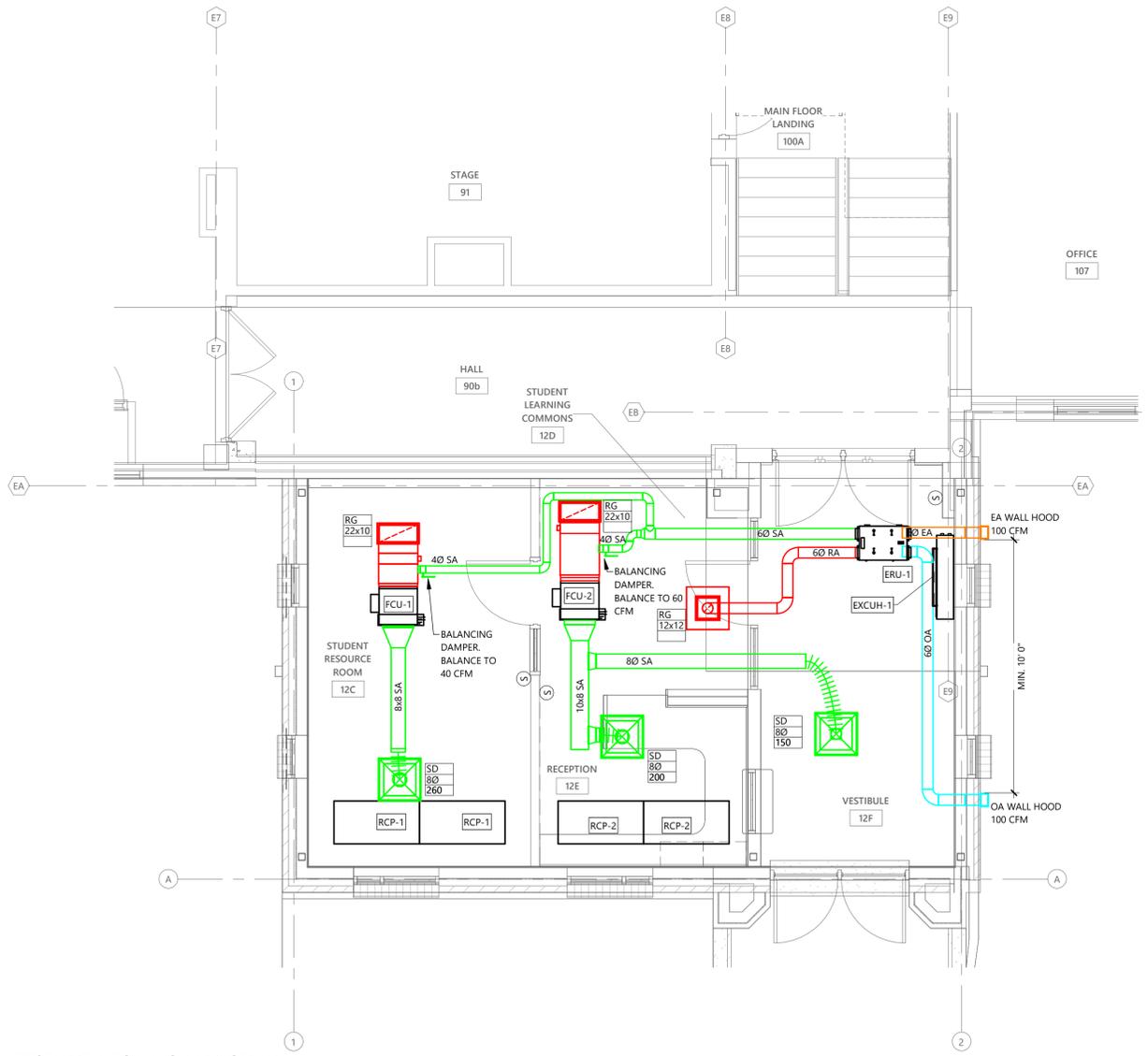
MECHANICAL NOTES:  
 1. COORDINATE MOUNTING FRAME TYPE WITH ARCHITECTURAL PLANS.  
 2. COLOR TO BE SELECTED BY THE ARCHITECT.

KEYED PLAN NOTES	
#	DESCRIPTION
2	REINSTALL EXISTING CUH. EXTEND AND REPLACE PIPING AND CONTROLS AS NECESSARY.
5	COORDINATE PIPE ROUTING VERTICALLY IN CHASE WITH ALL TRADES

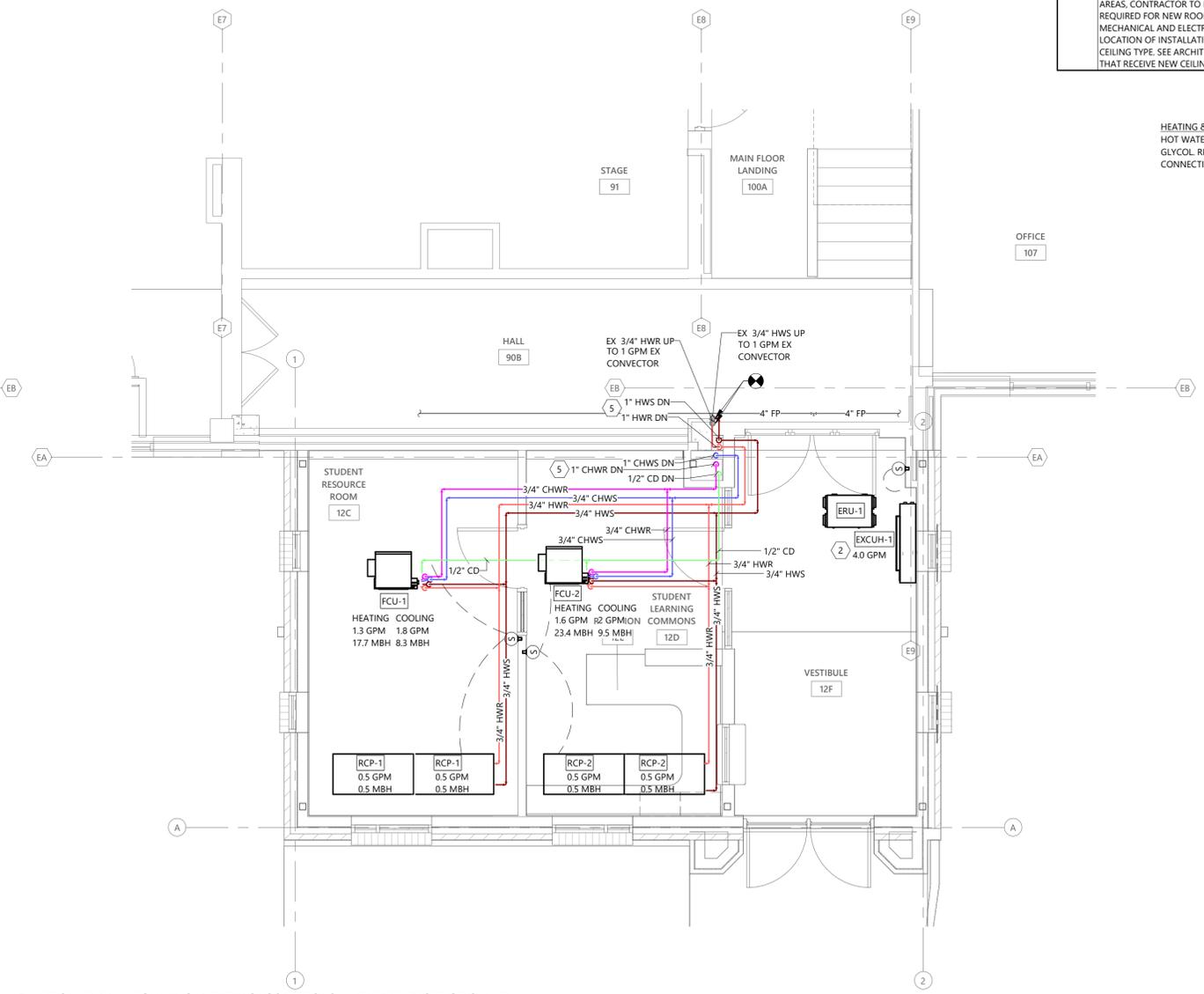
DIVISION 21 FIRE SUPPRESSION SYSTEM REQUIREMENTS	
A	SUPPLY AND INSTALL (WHETHER SHOWN OR NOT) A COMPLETE FIRE SUPPRESSION SYSTEM WITH REQUIRED AMOUNT OF SPRINKLERS. ALL EQUIPMENT AND APPURTENANCES IN THE MOST ECONOMICAL WAY.
B	DESIGN TO BE IN STRICT ACCORDANCE W/ LIFE SAFETY CODE, NATIONAL FIRE CODE, STATE PLUMBING CODE, INSURANCE CARRIER AND APPLICABLE CODES. PROVIDE CERTIFIED HYDRAULIC DESIGN.
C	DIVISION 21 IS RESPONSIBLE FOR DESIGNATION OF HAZARD CLASSIFICATIONS AND THE APPROPRIATE COVERAGE AND INSTALLATIONS BASED ON THEIR REVIEW OF CONSTRUCTION DOCUMENTS AND SITE.
D	PROVIDE FIRE ALARM INTERFACE AND ANY ELECTRICAL WORK REQUIRED.
E	PRIME AND PAINT EXPOSED FIRE SUPPRESSION PIPING AND RELATED APPURTENANCES IN APPLICABLE AREAS. COLOR SELECTION BY ARCHITECT.
F	ROUTE FIRE SUPPRESSION PIPING AS FAR FROM ROOF RELIEF HOODS AS POSSIBLE. INSULATE PIPING WITHIN 8'-0" OF RELIEF HOODS.

FIRE PROTECTION NOTES	
A	THIS BUILDING HAS AN EXISTING WET SPRINKLER SYSTEM. IN REMODELED AREAS, CONTRACTOR TO MODIFY, EXTEND AND REROUTE PIPING AS REQUIRED FOR NEW ROOM ARRANGEMENTS, CEILINGS AND NEW MECHANICAL AND ELECTRICAL SYSTEMS. CONTRACTOR TO COORDINATE LOCATION OF INSTALLATION OF ITEMS OF THEIR TRADE WITH LIGHTING AND CEILING TYPE. SEE ARCHITECTURAL PLANS FOR ARRANGEMENTS AND AREAS THAT RECEIVE NEW CEILINGS.

HEATING & CHILLED WATER NOTES:  
 HOT WATER AND CHILLED WATER SYSTEM CONTAINS 35% GLYCOL. RETAIN WATER ON SITE FOR MAKING CONNECTIONS AND ADDING WATER FOR THE NEW PIPING.



FIRST LEVEL MECHANICAL HVAC PLAN  
 1/4" = 1'-0"



FIRST LEVEL MECHANICAL PIPING, CONTROLS AND FIRE PROTECTION PLAN  
 1/4" = 1'-0"

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HOUSTON ELEMENTARY SCHOOL SAFE ENTRANCE ADDITION 2025-11441

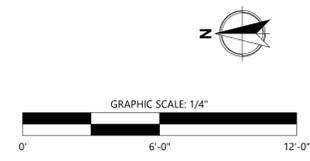


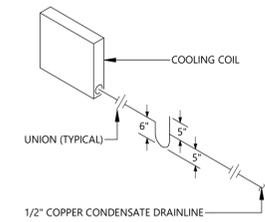
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*Michael R. Washburn*  
 MICHAEL R. WASHBURN LIC #: 52709 DATE: 02-12-2026

DATE	REV#	REVISIONS DESCRIPTION

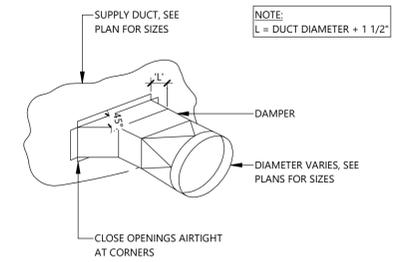
HOUSTON ELEMENTARY SCHOOL SAFE ENTRANCE ADDITION  
 FIRST LEVEL MECHANICAL PLAN

M1.1  
 PROJECT #: 2025-11441

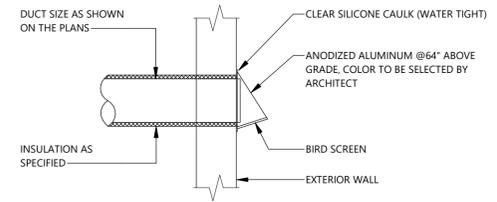




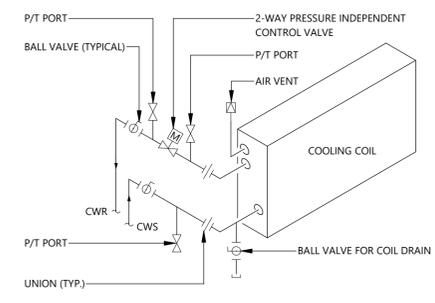
6 PLUMBING - COOLING COIL CONDENSATE



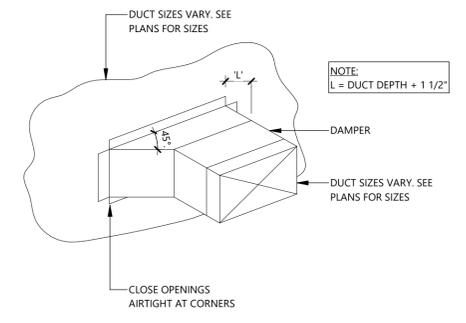
3 HVAC - DUCT TAKEOFF - ROUND



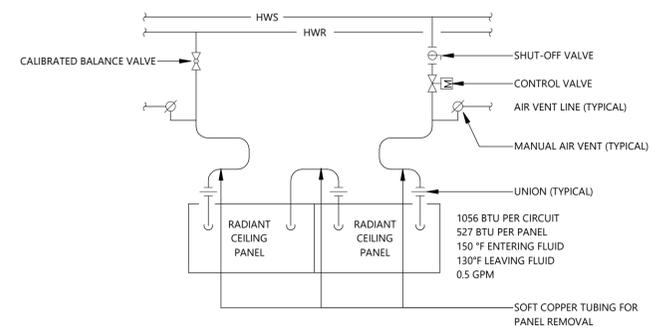
8 HVAC - OUTSIDE AIR INTAKE - WALL CAP



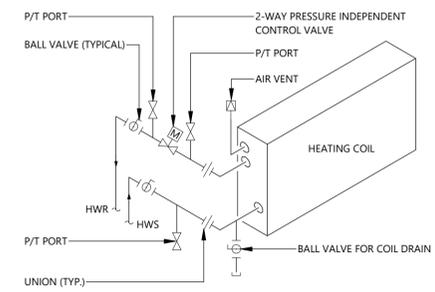
5 MECHANICAL PIPING - COOLING COIL WITH 2-WAY VALVE



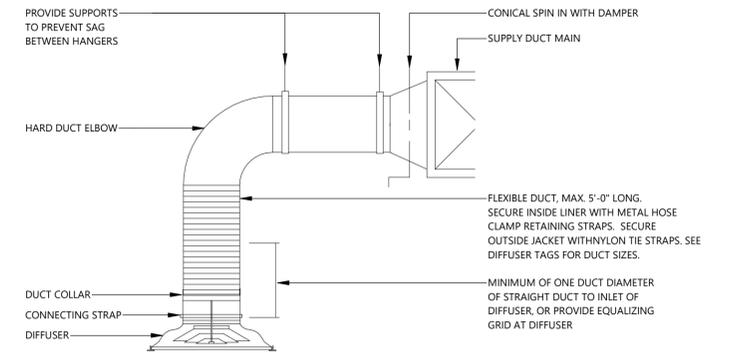
2 HVAC - DUCT TAKEOFF - RECTANGULAR



7 MECHANICAL PIPING - RADIANT CEILING PANEL 2



4 MECHANICAL PIPING - HEATING COIL WITH 2-WAY VALVE



1 DIFFUSER FLEXIBLE DUCT CONNECTION

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ENERGY RECOVERY UNIT SCHEDULE																																	
GENERAL			MECHANICAL												ELECTRICAL																		
MARK	LOCATION	APPLICATION	OUTSIDE AIR FAN				EXHAUST AIR FAN				SUMMER DESIGN			WINTER DESIGN			MANUFACTURER	MODEL NO.	NOTES	VOLTAGE / PHASE	TOTAL ELECTRICAL LOAD	CONTROL		STARTER		STARTER LOCATION	DISCONNECT		FEEDER SIZE	POWER SOURCE	NOTES		
			CFM	HP	ESP (IN WC)	TYPE	CFM	HP	ESP (IN WC)	TYPE	OA EAT (DB / WB)	OA LAT (DB / WB)	EA EAT (DB / WB)	OA EAT (DB / WB)	OA LAT (DB / WB)	EA EAT (DB / WB)						TYPE	BY	TYPE / SIZE	BY		TYPE / SIZE	BY					
ERU-1	VEST 12F		100		0.5			100		0.5			88/73	79/68.4	75/62.6	-20/-20	42.6/33.7	70/51.1	Renewaire LLC	SL70L		120/1	53 W	BAS	DIV 23	MSS	DIV 26	UNIT MOUNTED	PANEL	DIV 26	12	EXISTING PANEL	1
MECHANICAL NOTES:																			ELECTRICAL NOTES:														
1. EXAMPLE TEXT																			1. FIELD VERIFY LOCATION OF EXISTING PANEL														
2. EXAMPLE TEXT																			2. EXAMPLE TEXT														

FAN COIL UNIT SCHEDULE (MECHANICAL SECTION)																														
GENERAL			MECHANICAL												ELECTRICAL															
MARK	LOCATION	CFM	FAN				COOLING COIL DATA						FLUID - 30% PROPYLENE GLYCOL						HEATING COIL DATA						FEEDER SIZE	POWER SOURCE	NOTES			
			DESIGN OA CFM	ESP (IN WC)	MOTOR HP	FAN RPM	DRIVE	TOTAL MBH	SENS. MBH	ENTERING AIR		LEAVING AIR		FACE VELOCITY (FPM)	EWT (°F)	LWT (°F)	GPM	WPD (FT HD)	ROWS / FPI	AIR DATA		FLUID - 30% PROPYLENE GLYCOL								
										DB (°F)	WB (°F)	DB (°F)	WB (°F)							EAT (°F)	LAT (°F)	FACE VELOCITY (FPM)	TOTAL MBH	EWT (°F)				LWT (°F)	GPM	WPD (FT HD)
FCU-1	STUDENT RESOURCE ROOM 12C	260	40	0.25	1/4		8.285	6.503	80	67	57.1	56.9	181.8	45	55.1	1.8	3.15	4/12	65	127.1		17.654	150	120	1.3	0.8	4/12	MERV 8	DAIKIN APPLIED	FCHH204
FCU-2	STUDENT LEARNING COMMONS 12D	350	60	0.25	1/4		9.507	8.116	80	67	58.8	59.5	244.8	45	55.4	2	3.39	4/12	65	126		23.338	150	119.8	1.6	1.33	4/12	MERV 8	DAIKIN APPLIED	FCHH204
MECHANICAL NOTES:																														
1. EXAMPLE TEXT																														
2. EXAMPLE TEXT																														

FAN COIL UNIT SCHEDULE (ELECTRICAL SECTION)													
ELECTRICAL													
MARK	VOLTAGE / PHASE	TOTAL ELECTRICAL LOAD	CONTROL		STARTER		STARTER LOCATION	DISCONNECT		FEEDER SIZE	POWER SOURCE	NOTES	
			TYPE	BY	TYPE / SIZE	BY		TYPE / SIZE	BY				
FCU-1	120/1	677 W	BAS	DIV 23	MSS	DIV 26	UNIT MOUNTED	PANEL	DIV 26	12	EXISTING PANEL	1	
FCU-2	120/1	677 W	BAS	DIV 23	MSS	DIV 26	UNIT MOUNTED	PANEL	DIV 26	12	EXISTING PANEL	1	
ELECTRICAL NOTES:													
1. FIELD VERIFY LOCATION OF EXISTING PANEL													
2. EXAMPLE TEXT													

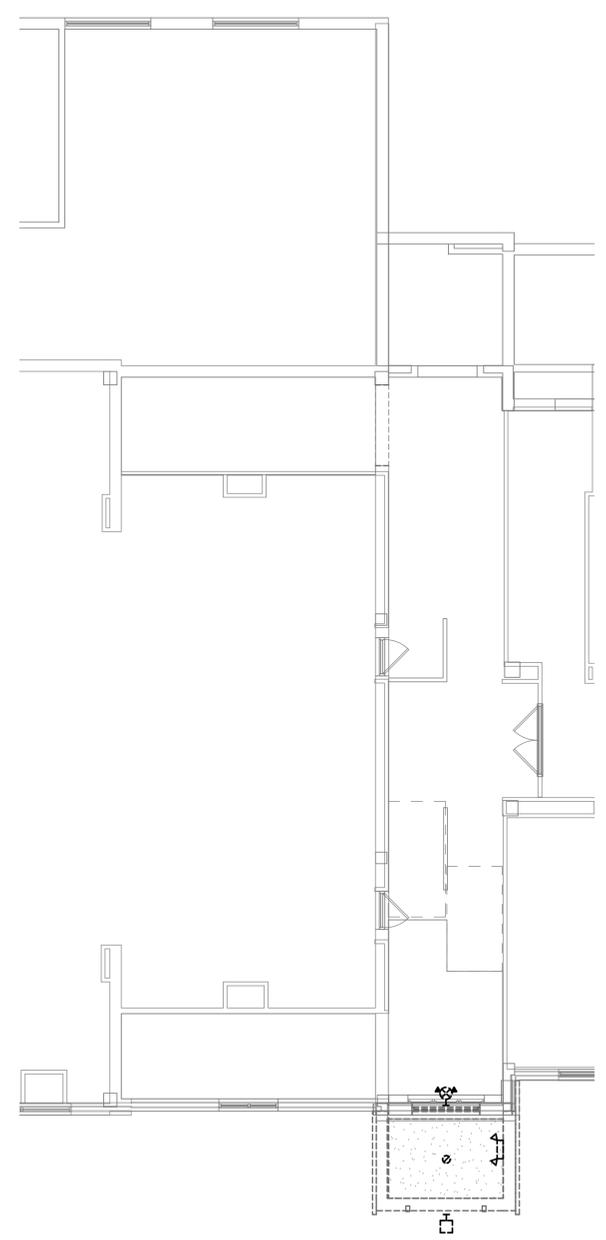
UNIT HEATER/CABINET UNIT HEATER SCHEDULE																											
GENERAL			MECHANICAL												ELECTRICAL												
MARK	LOCATION	TYPE	CFM	FAN DRIVE	FAN RPM	FAN HP	EAT (°F)	HOT WATER COIL				MANUFACTURER	MODEL NO.	CONTROL	NOTES	VOLTAGE/PHASE	TOTAL ELEC. LOAD	CONTROL		STARTER		DISCONNECT		FEEDER SIZE	POWER SOURCE	NOTES	
								CAPACITY (MBH)	EWT (°F)	LWT (°F)	FLOW (GPM)							WPD (FT)	TYPE	BY	TYPE / SIZE	BY	STARTER LOCATION				TYPE / SIZE
EXCUH-1	VEST 12F	WALL-SURFACE	420	-	-	-	60	28	150	130	4	1.41	STERLING	WI-1110-04			120/1	BAS	DIV 23	MSS	DIV 26	UNIT MOUNTED	PANEL	DIV 26	12	EXISTING PANEL	1
MECHANICAL NOTES:															ELECTRICAL NOTES:												
1. EXAMPLE TEXT															1. FIELD VERIFY LOCATION OF EXISTING PANEL												
2. EXAMPLE TEXT															2. EXAMPLE TEXT												

PUMP SCHEDULE																										
GENERAL			MECHANICAL												ELECTRICAL											
MARK	LOCATION	APPLICATION	TYPE	GPM	DESIGN HEAD (FT)	SUCTION / DISCHARGE (IN)	IMPELLER DIAMETER (IN)	FLUID	DRIVE	MOTOR HP	MOTOR RPM	MANUFACTURER	MODEL NO.	NOTES	VOLTAGE / PHASE	TOTAL ELECTRICAL LOAD	CONTROL		STARTER		DISCONNECT		FEEDER SIZE	POWER SOURCE	NOTES	
																	TYPE	BY	TYPE / SIZE	BY	STARTER LOCATION	TYPE / SIZE				BY
P-1	CRAWL SPACE	CONDENSATE	VERTICAL CENTRIFUGAL	0.33	11	3/8"		CONDENSATE		1/50		LITTLE GIANT	VCMA-15		120/1	60 W	SELF CONTAINED	DIV 23	PLUG	DIV 26	UNIT MOUNTED	PANEL	DIV 26	12	EXISTING PANEL	1
MECHANICAL NOTES:															ELECTRICAL NOTES:											
1. EXAMPLE TEXT															1. FIELD VERIFY EXISTING PANEL LOCATION.											
2. EXAMPLE TEXT															2. EXAMPLE TEXT											

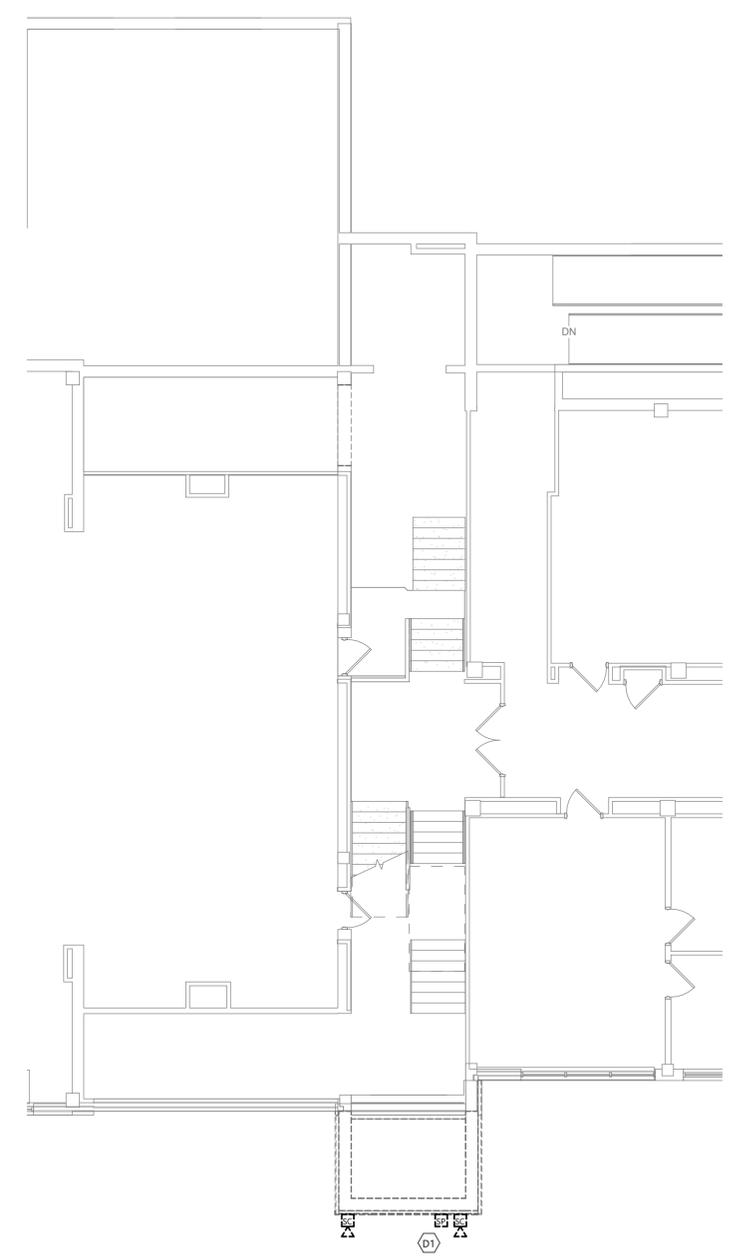


KEYED DEMO PLAN NOTES	
D#	DESCRIPTION
D1	DISCONNECT AND REMOVE TO BE RELOCATED.

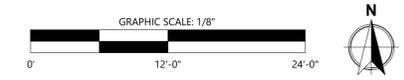
Houston Elementary School Safe Entrance Addition  
2025-11441



2 FIRST LEVEL DEMOLITION LIGHTING PLAN  
1/8" = 1'-0"



1 FIRST LEVEL DEMOLITION POWER/COMMUNICATION/DATA/FIRE ALARM/SECURITY/TELEPHONE PLAN  
1/8" = 1'-0"



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*David Jordan*  
DAVID JORDAN LIC #: 42696 DATE: 02/12/2026

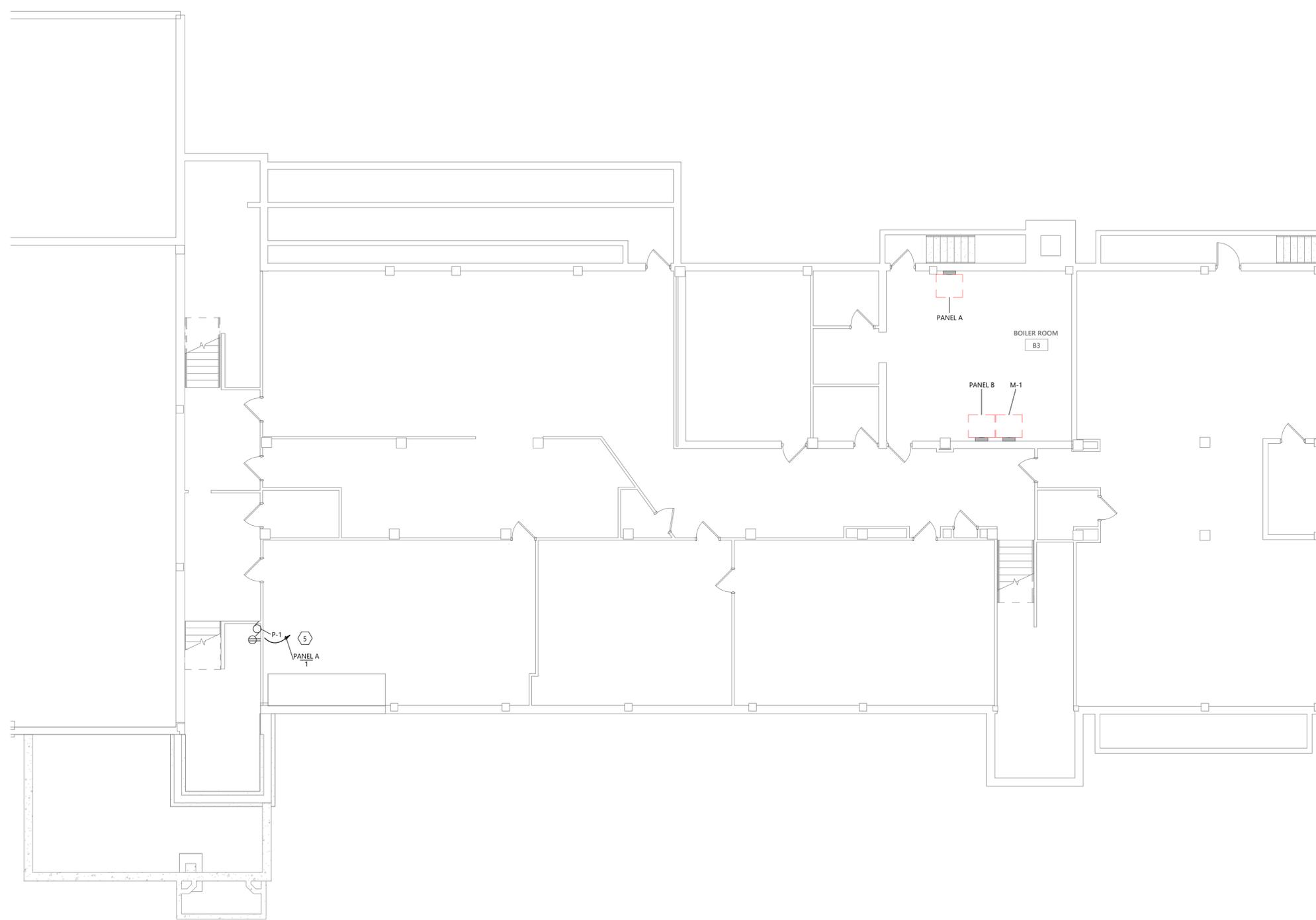
DATE	REV#	REVISIONS DESCRIPTION

Houston Elementary School Safe Entrance Addition  
FIRST LEVEL DEMOLITION ELECTRICAL PLAN

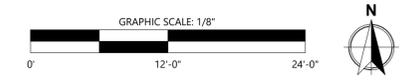
ED1.11  
PROJECT #: 2025-11441

KEYED PLAN NOTES	
#	DESCRIPTION
5	CONNECT TO EXISTING PANEL "A". CONTRACTOR TO VERIFY PANEL LOCATION AND SPACES.

Houston Elementary School Safe Entrance Addition 2025-11441



1 BASEMENT LEVEL POWER/COMMUNICATION/DATA/FIRE ALARM/SECURITY/TELEPHONE PLAN  
1/8" = 1'-0"



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*David Jordan*  
DAVID JORDAN LIC #: 42696 DATE: 02/12/2026

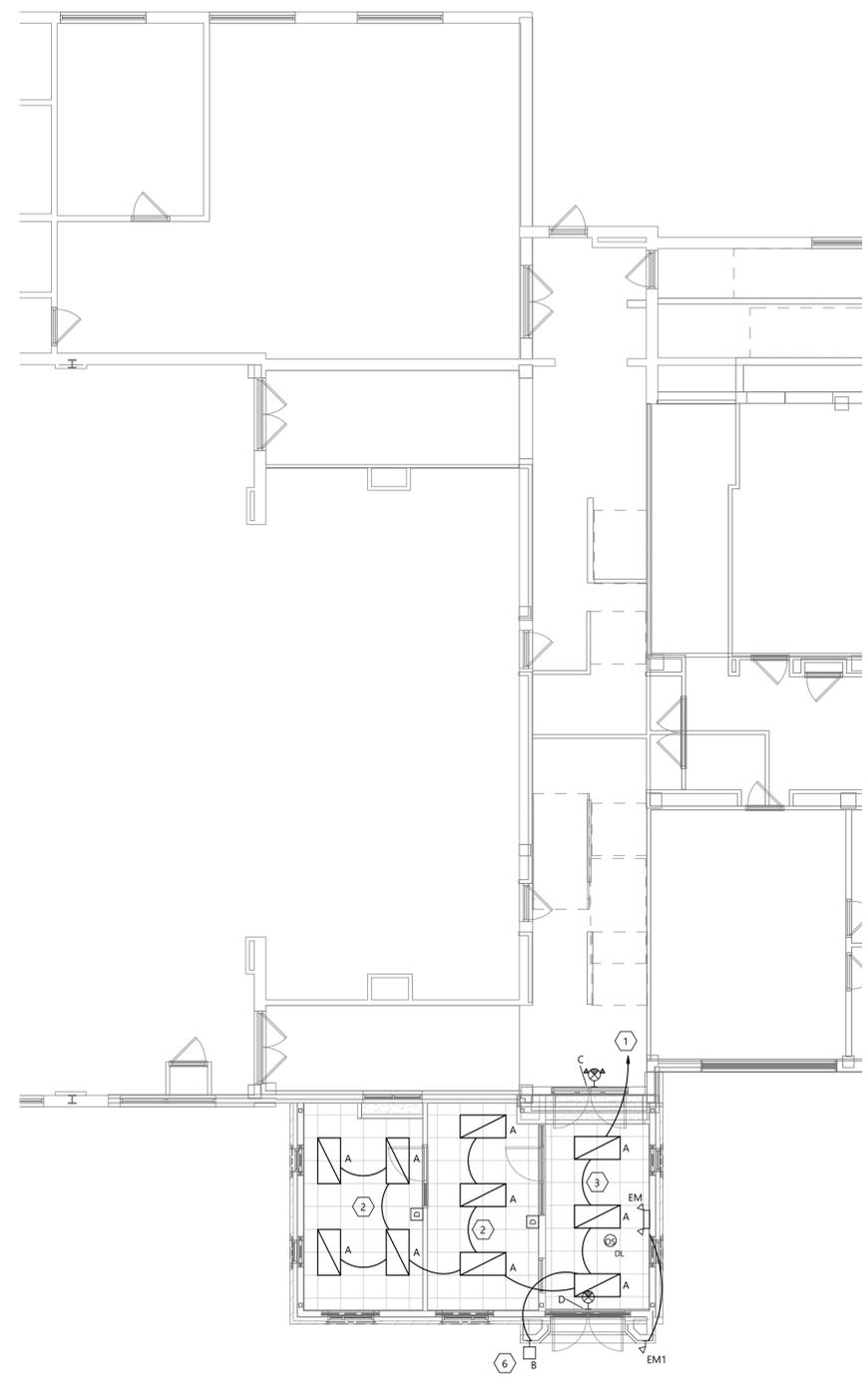
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Houston Elementary School Safe Entrance Addition

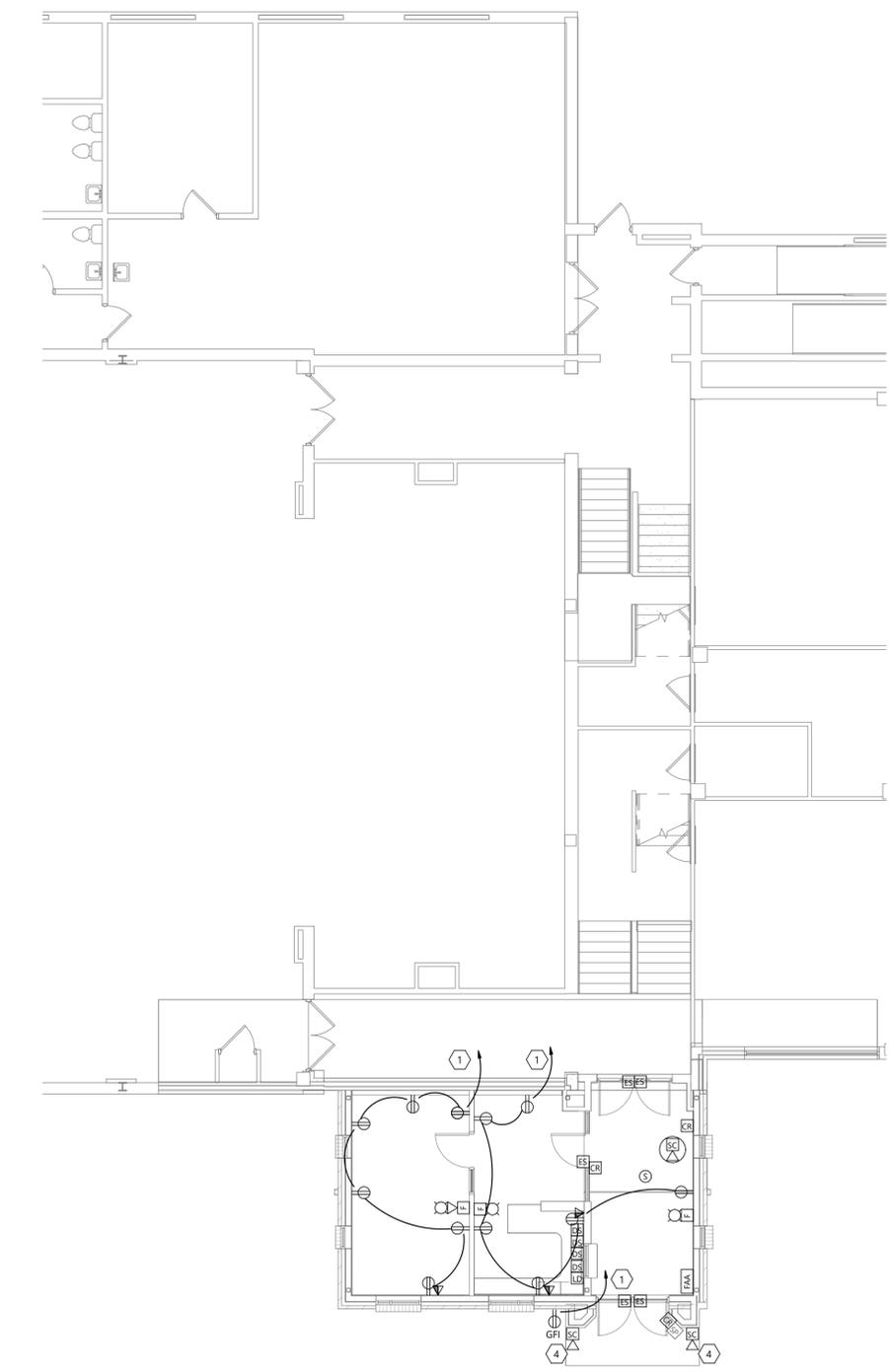
BASEMENT ELECTRICAL PLAN

E1.10  
PROJECT #: 2025-11441

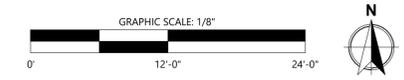
#	DESCRIPTION
1	CONNECT TO EXISTING PANEL IN IT ROOM. CONTRACTOR TO VERIFY PANEL LOCATION.
2	LIGHTING CONTROLS TO BE MANUAL ON, AUTO OFF, AND DIMMABLE VIA SWITCH.
3	LIGHTING CONTROLS TO BE AUTO ON, AUTO OFF, AND DAYLIGHT CONTROL VIA OCCUPANCY SENSOR.
4	MULTI HEAD WALL MOUNTED SECURITY CAMERA
6	CONNECT TO EXISTING EXTERIOR LIGHTING CONTROLS. INCLUDE A RELAY TO CONNECT TO TIMECLOCK.



1 FIRST LEVEL LIGHTING PLAN  
1/8" = 1'-0"



2 FIRST LEVEL POWER/COMMUNICATION/DATA/FIRE ALARM/SECURITY/TELEPHONE PLAN  
1/8" = 1'-0"



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Houston Elementary School Safe Entrance Addition  
FIRST LEVEL ELECTRICAL PLAN

E1.11  
PROJECT #: 2025-11441

LIGHTING FIXTURE SCHEDULE										
TYPE	DESCRIPTION	LUMEN PACKAGE			MOUNTING	VOLTAGE	MANUFACTURER	MODEL NO.	QUANTITY	NOTES
		WATTS	LUMENS	TYPE / COLOR TEMP						
A	2' x 4' RECTANGULAR FIXTURE	22.3	3000	LED - 3500K	RECESSED	120 V	Lithonia	2GTL4 30L LP835	10	
B	WALL PACK	47	6000	LED - 4000K	WALL	120 V	Lithonia	WPX2 LED 40K MVOLT DDBXD M2	1	
C	EXIT LIGHT WITH DUAL HEADS	4.3		LED	UNIVERSAL	120 V	Lithonia	LQHM LED G SD M6	1	1
D	EXIT SIGN	1.5		LED	UNIVERSAL	120 V	Lithonia	EXQM S W RG MVOLT	2	1
EM	EMERGENCY LIGHT - 2 HEADS	1.5		LED	WALL	120 V	Lithonia	EU2L M12	1	1
EM1	EMERGENCY REMOTE - SINGLE HEAD RIGHT	75	75	LED - 5700K	WALL	120 V	SATCO NUVO	67-142	1	1

ELECTRICAL NOTES:  
 1. CONNECT TO NEUTRAL LEG OF LIGHTING CIRCUIT.  
 2.



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DATE	REV#	REVISIONS DESCRIPTION

Houston Elementary School Safe Entrance Addition

ELECTRICAL SCHEDULES

E1.12

PROJECT #: 2025-11441