

24097 Permit Set December 13th, 2024
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APPLICABLE BUILDING CODES

- FLORIDA BUILDING CODE-BUILDING (FBC-B) 2020 EDITION
- FLORIDA BUILDING CODE- ACCESSIBILITY (FBC-A) 2020 EDITION
- FLORIDA BUILDING CODE- ENERGY CONSERVATION (FBC-EC) 2020 EDITION
- FLORIDA BUILDING CODE- FUEL GAS (FBC-FG) 2020 EDITION
- FLORIDA BUILDING CODE- MECHANICAL (FBC-M) 2020 EDITION
- FLORIDA BUILDING CODE- PLUMBING (FBC-P) 2020 EDITION
- FLORIDA FIRE PREVENTION CODE (FFPC) 7TH EDITION
- NATIONAL ELECTRIC CODE (NEC) 2020 EDITION

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION
ONE TENANT - ASSEMBLY GROUP A-3

CHAPTER 5 - GENERAL HEIGHTS & AREAS

A. BUILDING AREAS AND HEIGHTS

- BUILDING FLOOR AREA = 3,100 GSF
- STORY(S) = 1 STORY
- HEIGHT = 19'-0"

B. ALLOWABLE HEIGHTS AND BUILDING AREAS (TABLE 503)

- CONSTRUCTION TYPE = II (CHAPTER 6)
- FIRE RESISTANT RATING = "B"
- BUILDING HEIGHT LIMIT = 55'-0"
- MAXIMUM STORES = 2
- MAXIMUM AREA PER FLOOR = 3,500 SF

CHAPTER 6 - TYPES OF CONSTRUCTION

A. CONSTRUCTION CLASSIFICATION-TYPE II B (SECTION 602.2)

B. FIRE RESISTANT RATING REQUIREMENTS (HOURS) FOR BUILDING ELEMENTS (TABLE 601) - TYPE II B:

-STRUCTURAL FRAME = 0 HOURS
 -BEARING WALLS - EXTERIOR = 0 HOURS
 -BEARING WALLS - INTERIOR = 0 HOURS
 -NON-BEARING WALLS AND PARTITIONS - EXTERIOR = SEE TABLE 602

- <5 = 1 HOURS
- >5 TO <10 = 1 HOURS
- >10 TO <20 = 0 HOURS
- >20 TO <30 = 0 HOURS
- >30 = 0 HOURS

C. NON-BEARING WALLS AND PARTITIONS - INTERIOR = 0 HOURS

- FLOOR CONSTRUCTION = 0 HOURS
- ROOF CONSTRUCTION = 0 HOURS

CHAPTER 7 - FIRE-RESISTANT RATED CONSTRUCTION

A. MAXIMUM AREA OF EXT. WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF PROTECTION (TABLE 705.6)

- 30' OR GREATER - UNPROTECTED, NONSPRINKLERED = NO LIMIT

CHAPTER 8 - INTERIOR FINISHES

A. INTERIOR WALL AND CEILING FINISH REQUIREMENTS (TABLE 803.11)
GROUP A-3, NONSPRINKLERED

- VERTICAL EXITS AND EXIT PASSAGEWAYS = A
- EXIT ACCESS CORRIDORS AND OTHER EXITWAYS = A
- ROOMS AND ENCLOSED SPACES = C

CHAPTER 10 - MEANS OF EGRESS

A. OCCUPANT LOAD (TABLE 1004.5)

- ASSEMBLY AREAS (15 GROSS) - 3,100 GSF/15 = 207 PERSONS

B. EGRESS WIDTH SECTION 1005.1
OTHER EGRESS COMPONENTS = 0.2" PER OCCUPANT

C. COMMON PATH OF EGRESS TRAVEL (SECTION 1006.2.1)
GROUP A = 75 FEET MAXIMUM

D. EXIT AND EXIT ACCESS DOORWAYS (1006)
TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:

- OCCUPANT LOAD OF THE SPACE EXCEEDS VALUES IN TABLE 1006.2.1
- THE COMMON PATH OF EGRESS TRAVEL EXCEEDS THE LIMITATIONS OF SECTION 1006.2.1
- WHERE REQUIRED BY SECTION 1006.3.2

F. EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2) WITH SPRINKLER SYSTEM

- OCCUPANCY A = 200 FEET MAXIMUM

G. CORRIDOR FIRE RESISTANT RATING (TABLE 1018.1) WITHOUT SPRINKLER SYSTEM

- OCCUPANCY A = 0 HOUR (LESS THAN 30 OCCUPANTS)

H. CORRIDOR WIDTH (SECTION 1020.2)

- CORRIDOR WIDTH 44" MIN.

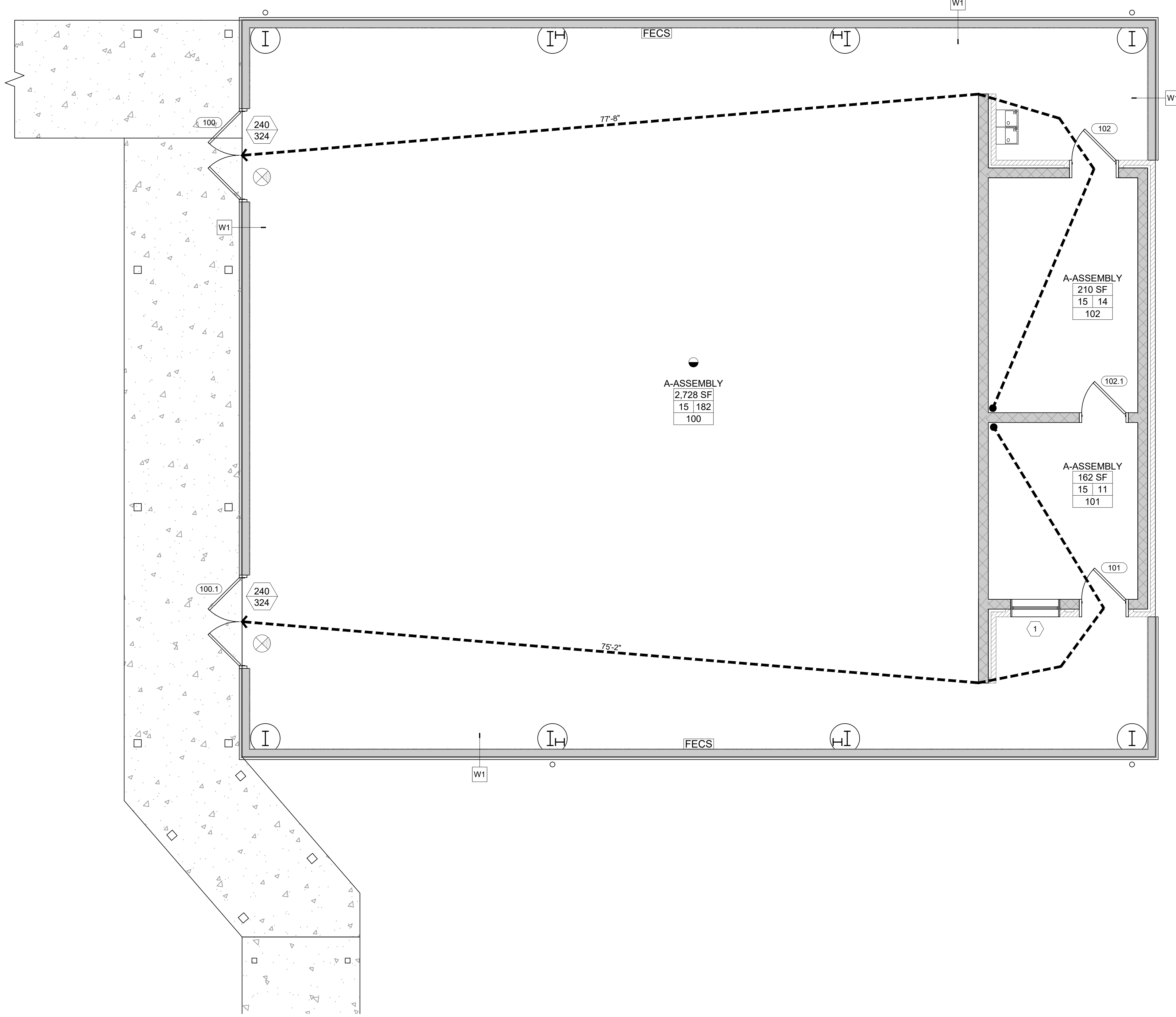
I. MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD (TABLE 1021.1)

- OCCUPANT LOAD 1-500 PERSONS = 2 EXITS
- OCCUPANT LOAD 501-1,000 PERSONS = 3 EXITS
- OCCUPANT LOAD MORE THAN 1,000 PERSONS = 4 EXITS

TOTAL NUMBER OF OCCUPANTS - 240

A. EGRESS WIDTH (1005.3.2)

- EGRESS = 0.2" PER OCCUPANT
- 207 OCC. x 0.2 = 41.4 INCHES MIN. TOTAL EGRESS REQUIRED
- TOTAL EGRESS WIDTH PROPOSED = 130"



LIFE SAFETY LEGEND

- PATH OF TRAVEL, DISTANCE AND DIRECTION
- ROOM OCCUPANCY TYPE
- ROOM SQ FT
- ROOM OCCUPANT COUNT
- ROOM OCCUPANT COUNT
- ROOM NUMBER
- EXIT LOAD
- EXIT CAPACITY
- FIRE EXTINGUISHER CAB. SURFACE MOUNTED
- SMOKE DETECTOR
- EXIT SIGN WITH LED EMERGENCY LIGHT

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PLANS FOR
 WALLER ELEMENTARY SCHOOL
 PAVILION ENCLOSURE

C1	LEGEND
SCALE: NTS	
LIFE SAFETY NOTES	
1. EXIT UNITS/EXIT DOOR LEAF = 36". ACTUAL CLEAR WIDTH = 32.5" - 32.5" DIVIDED BY 0.20"/PERSON = 162 PEOPLE/LEAF 2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION	
B1	NOTES
SCALE: NTS	
STATEMENT OF COMPLIANCE	
TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE.	
A3	STATEMENT
SCALE: NTS	

REVISIONS:

No.	Description	Date

LIFE SAFETY

PROJECT NUMBER **24097**
 DATED 12.13.2024

A1	CODE SUMMARY	A2	LIFE SAFETY PLAN
SCALE: NTS		SCALE: 1/4" = 1'-0"	

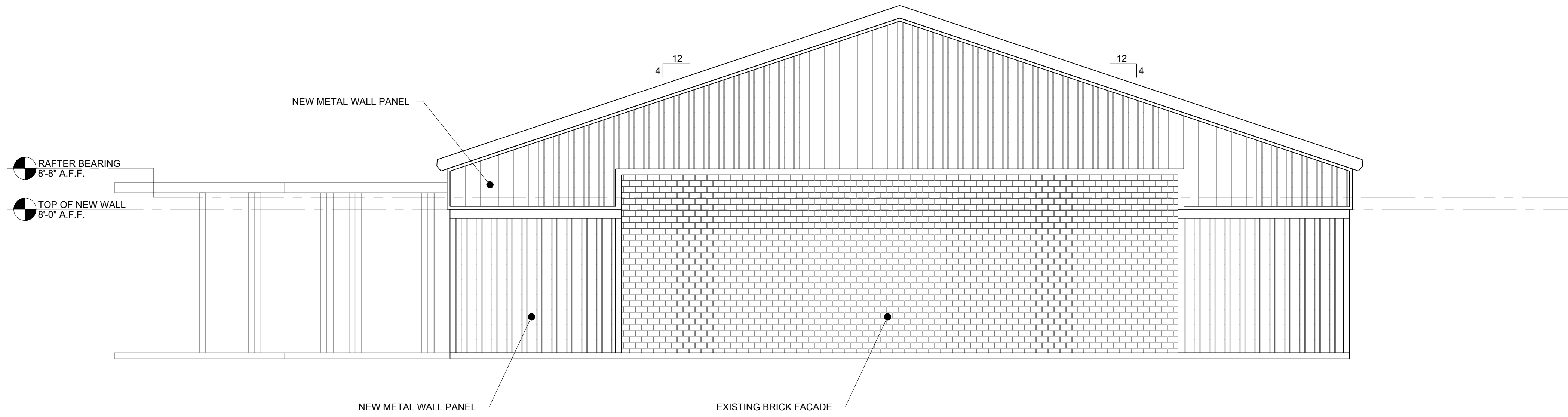
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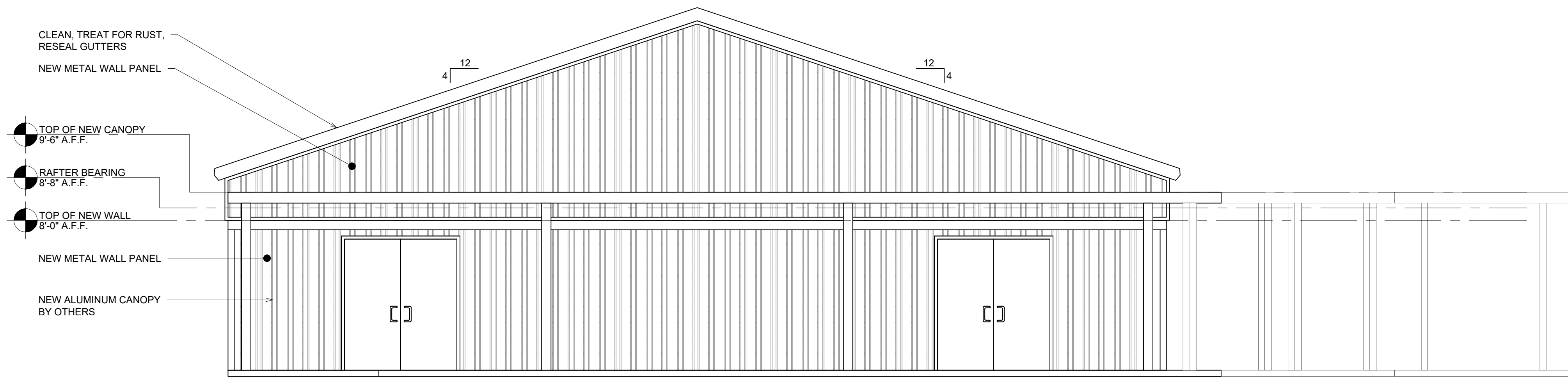
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B1 REAR ELEVATION

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



A1 FRONT ELEVATION

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

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PAVILION ENCLOSURE**

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ELEVATIONS

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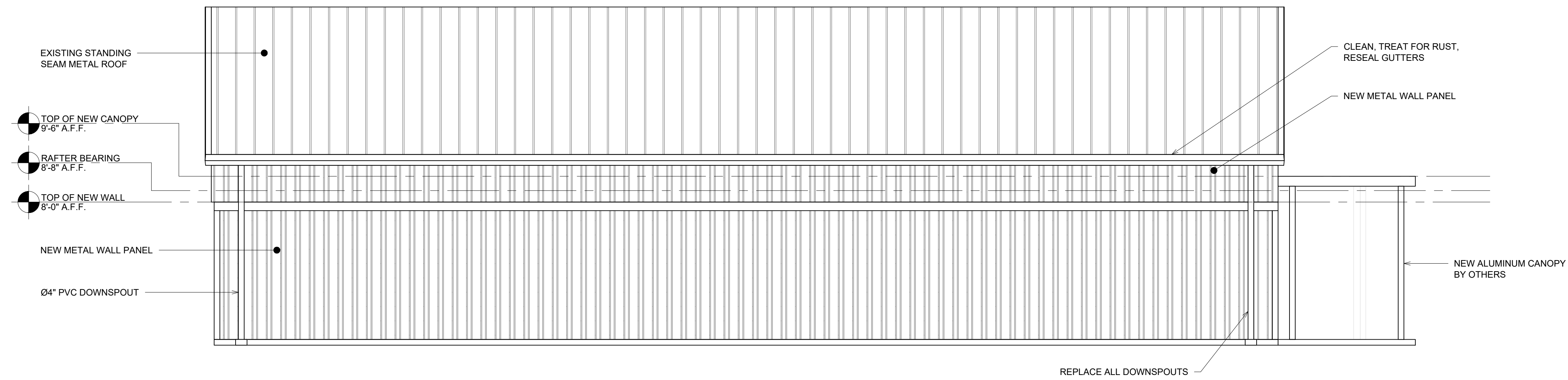


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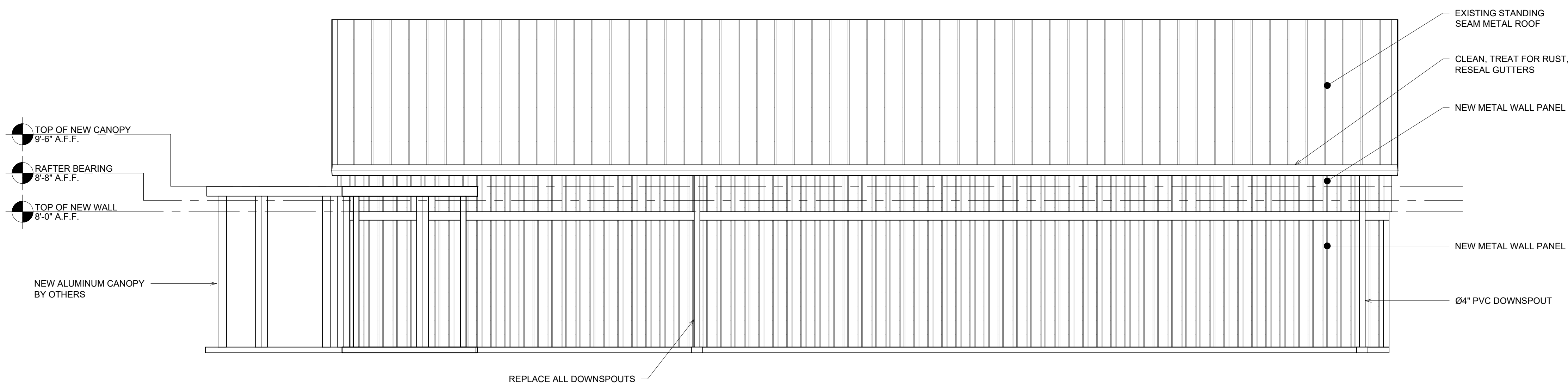
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**WALLER ELEMENTARY SCHOOL
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B1 LEFT SIDE ELEVATION

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



A1 RIGHT SIDE ELEVATION

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

REVISIONS:

No.	Description	Date

ELEVATIONS

PROJECT NUMBER **24097**
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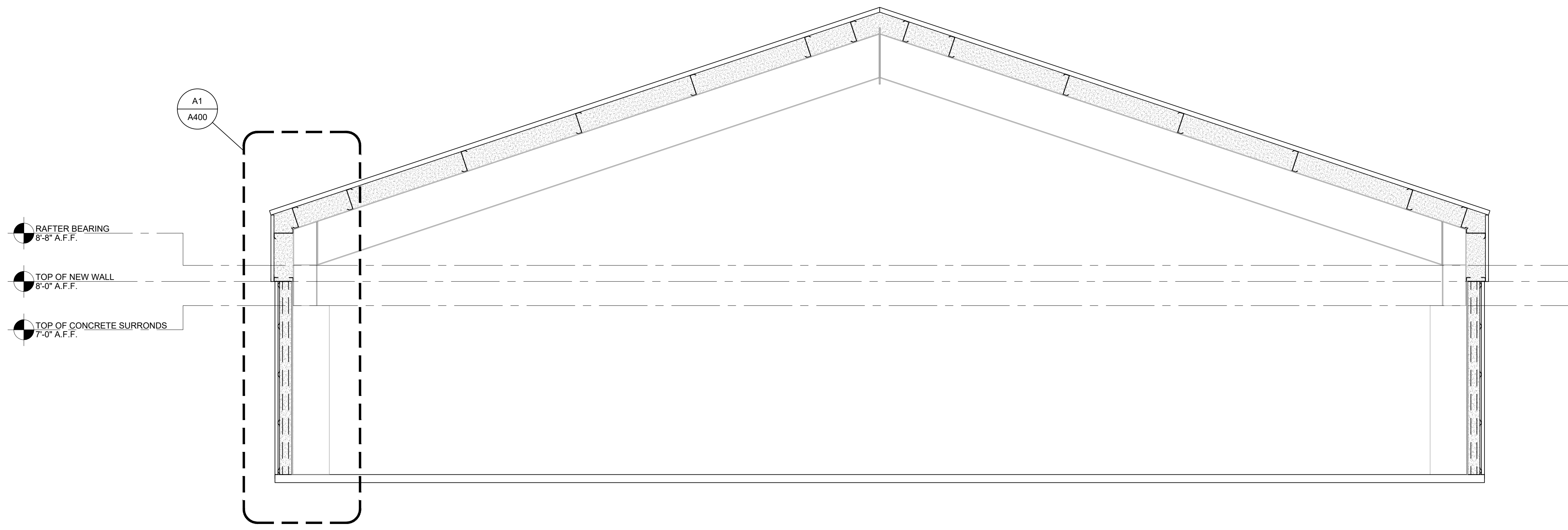


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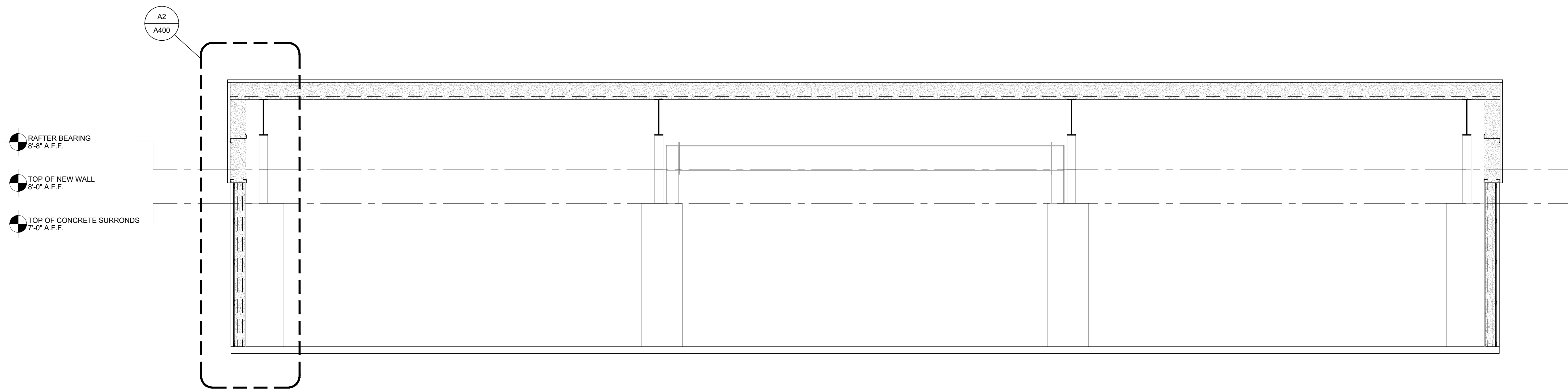
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B1 BUILDING SECTION

SCALE: 3/8" = 1'-0"



A1 BUILDING SECTION

SCALE: 3/8" = 1'-0"

REVISIONS:

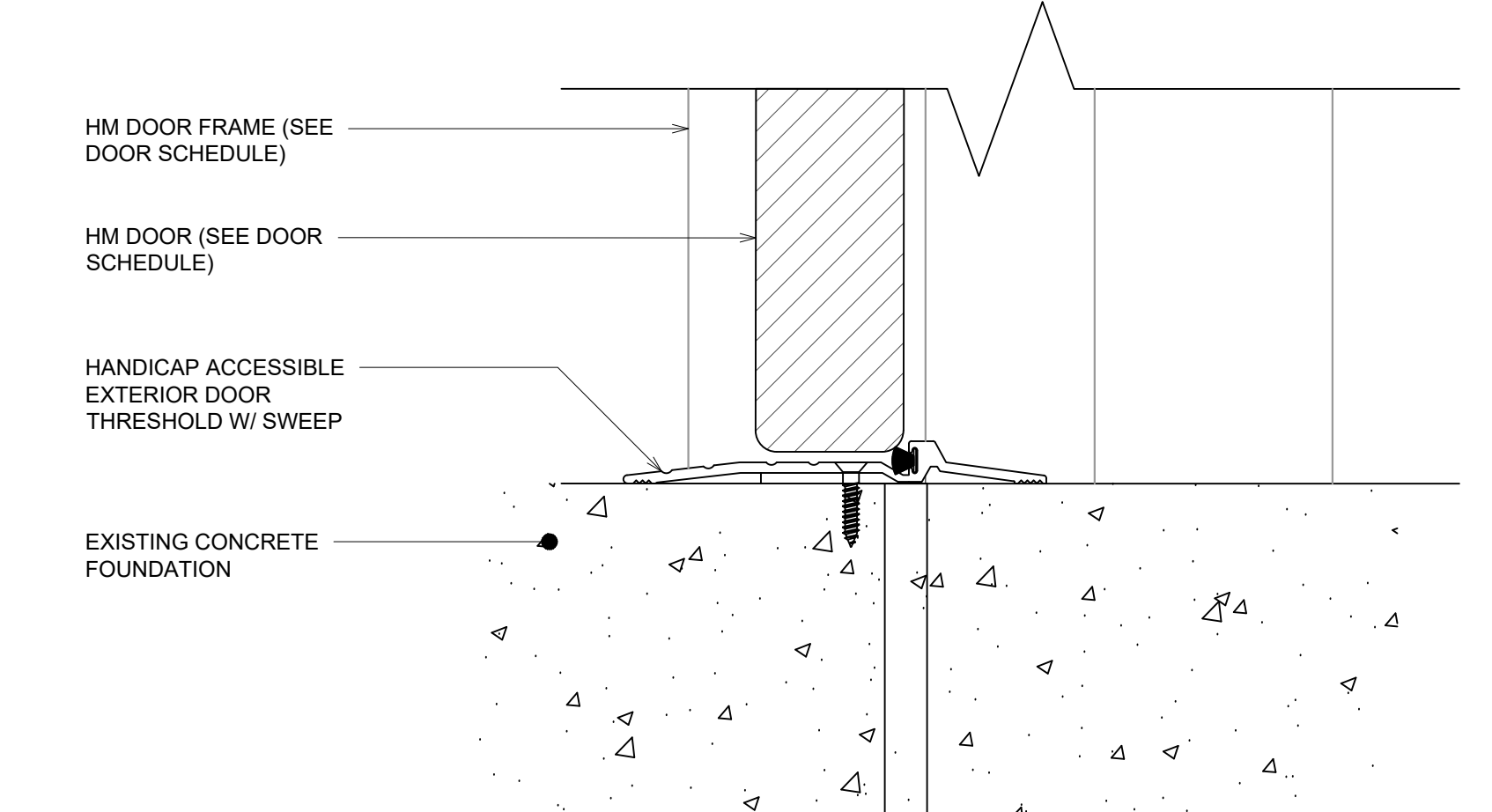
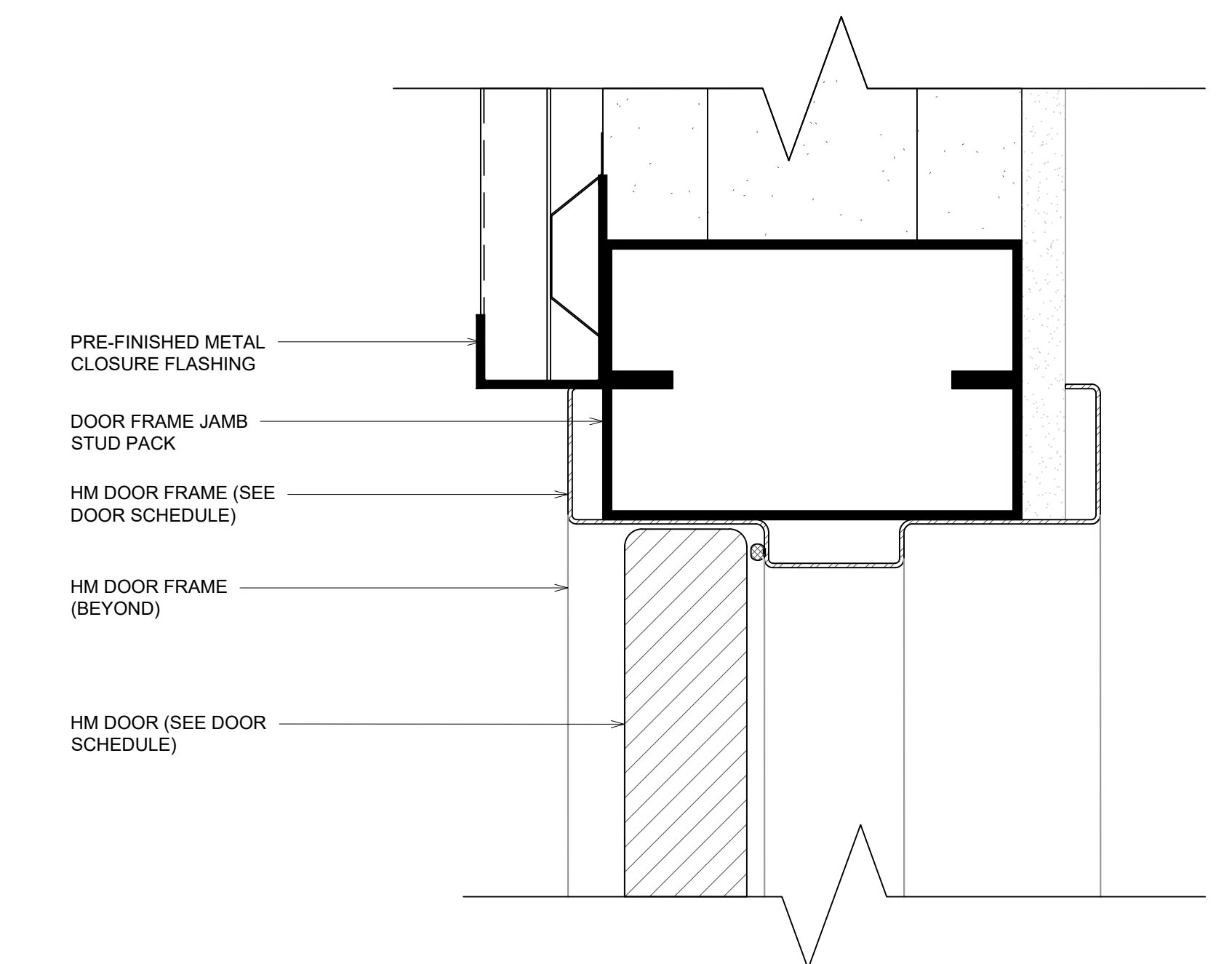
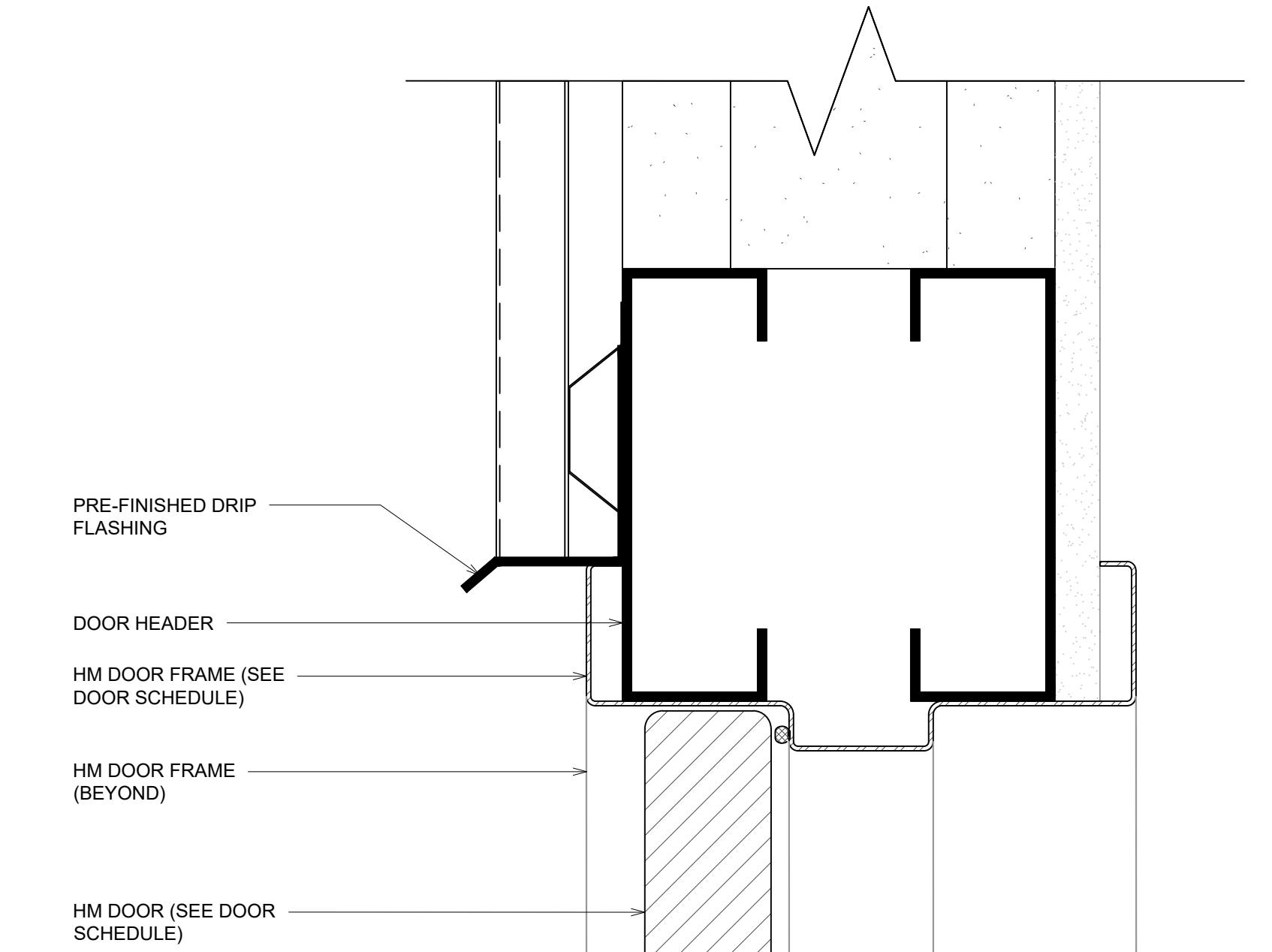
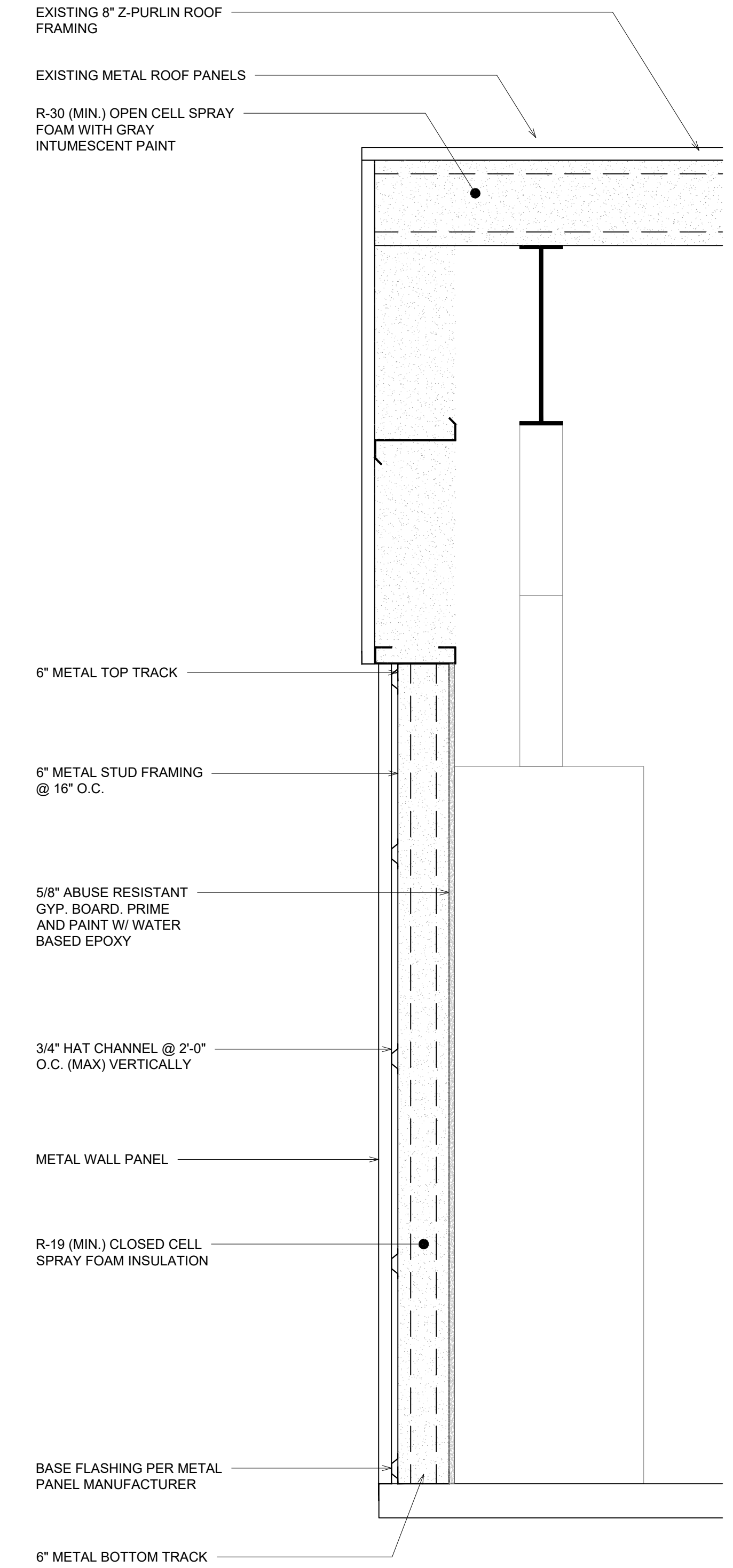
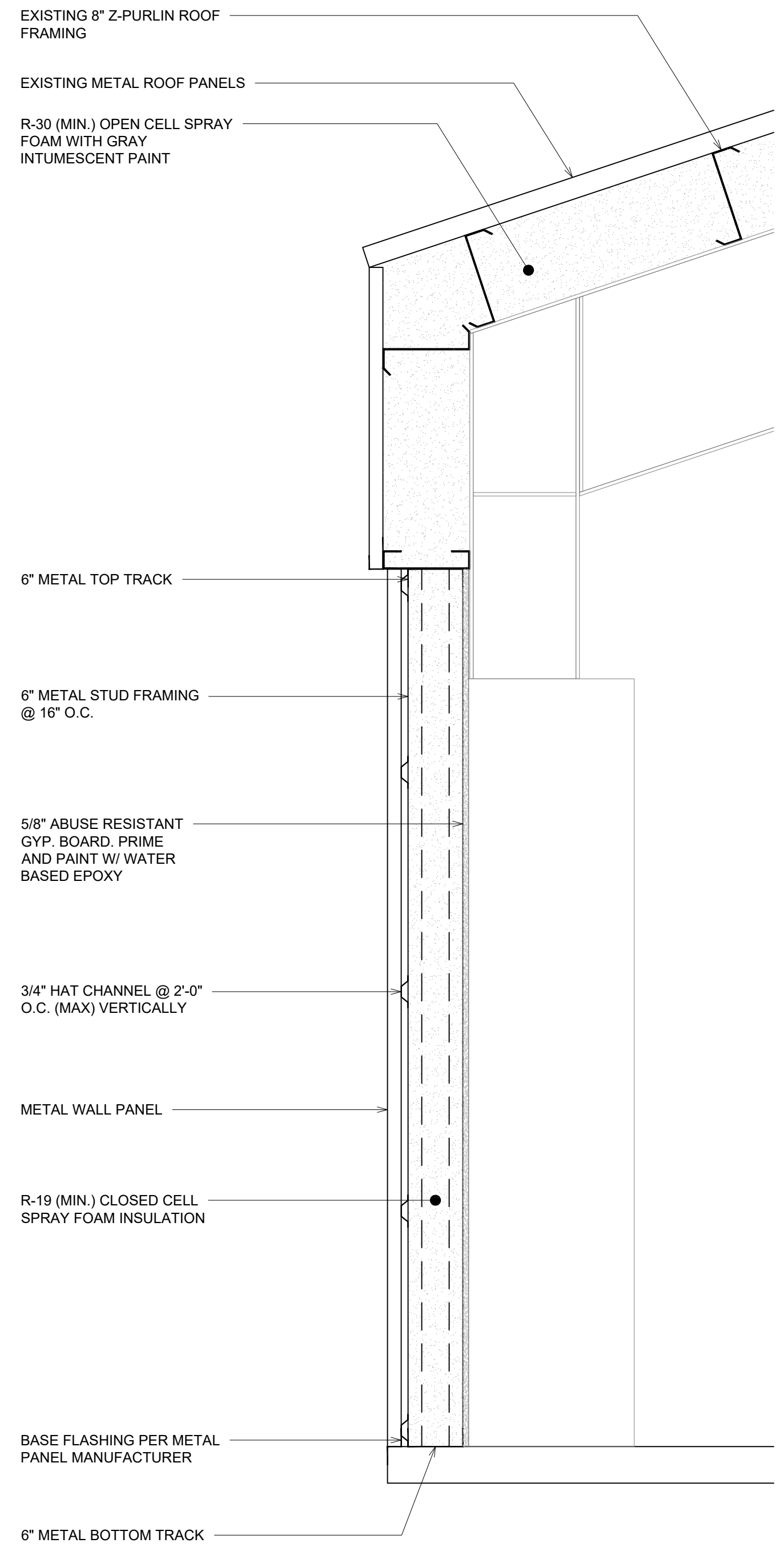
No.	Description	Date

SECTIONS

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A300

NOTE:
 ALL EXPOSED STEEL, DUCTWORK,
 MECHANICAL FEATURES, SPRAY FOAM,
 ETC. TO BE PAINTED "DUST BUNNY GRAY"



A1 SECTION DETAIL
 SCALE: 1" = 1'-0"

A2 SECTION DETAIL
 SCALE: 1" = 1'-0"

A3 DOOR SILL DETAIL
 SCALE: 1" = 1'-0"

C1 DOOR HEAD DETAIL
 SCALE: 1" = 1'-0"

B1 DOOR JAMB DETAIL
 SCALE: 1" = 1'-0"

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SECTION DETAILS

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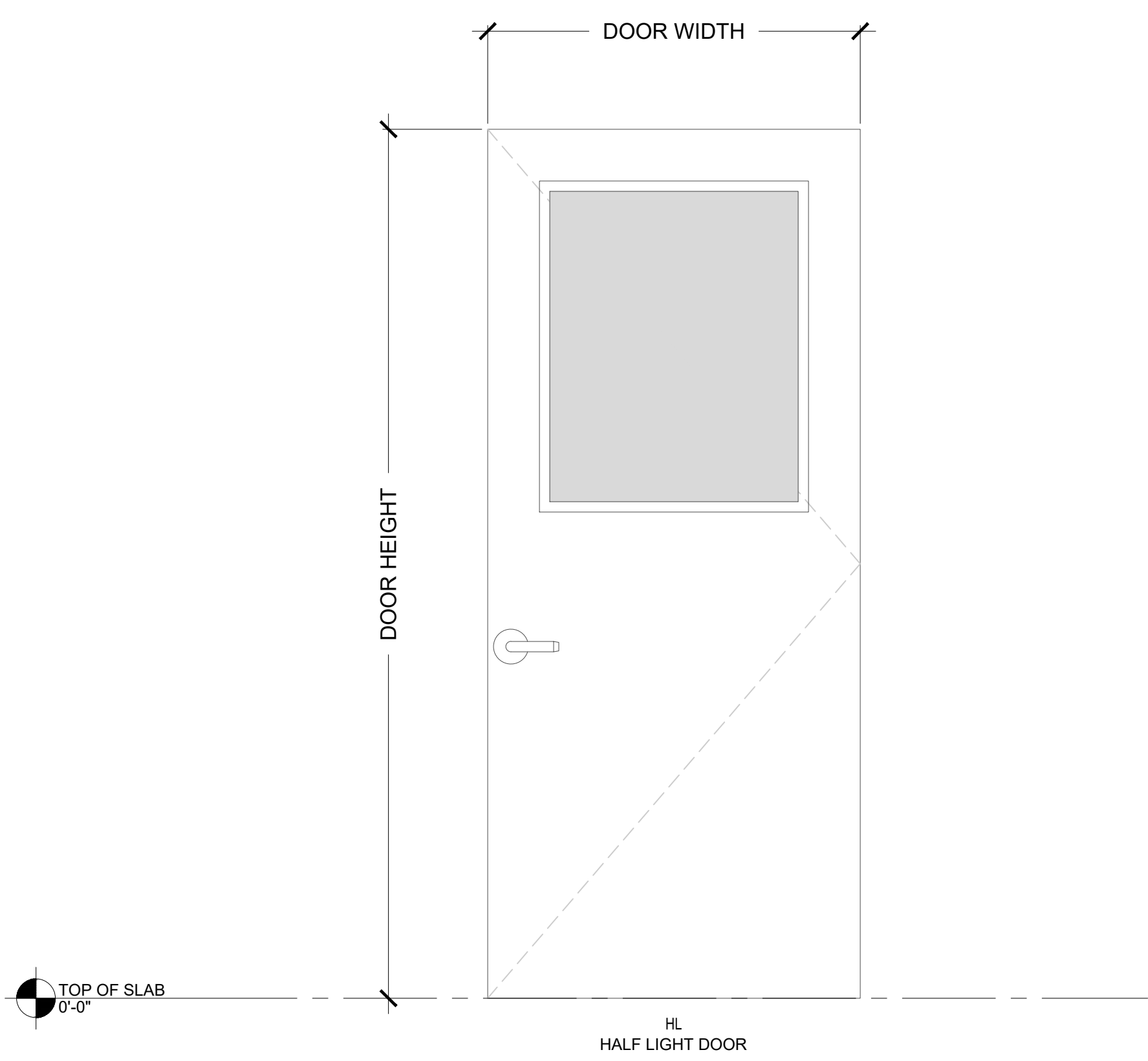
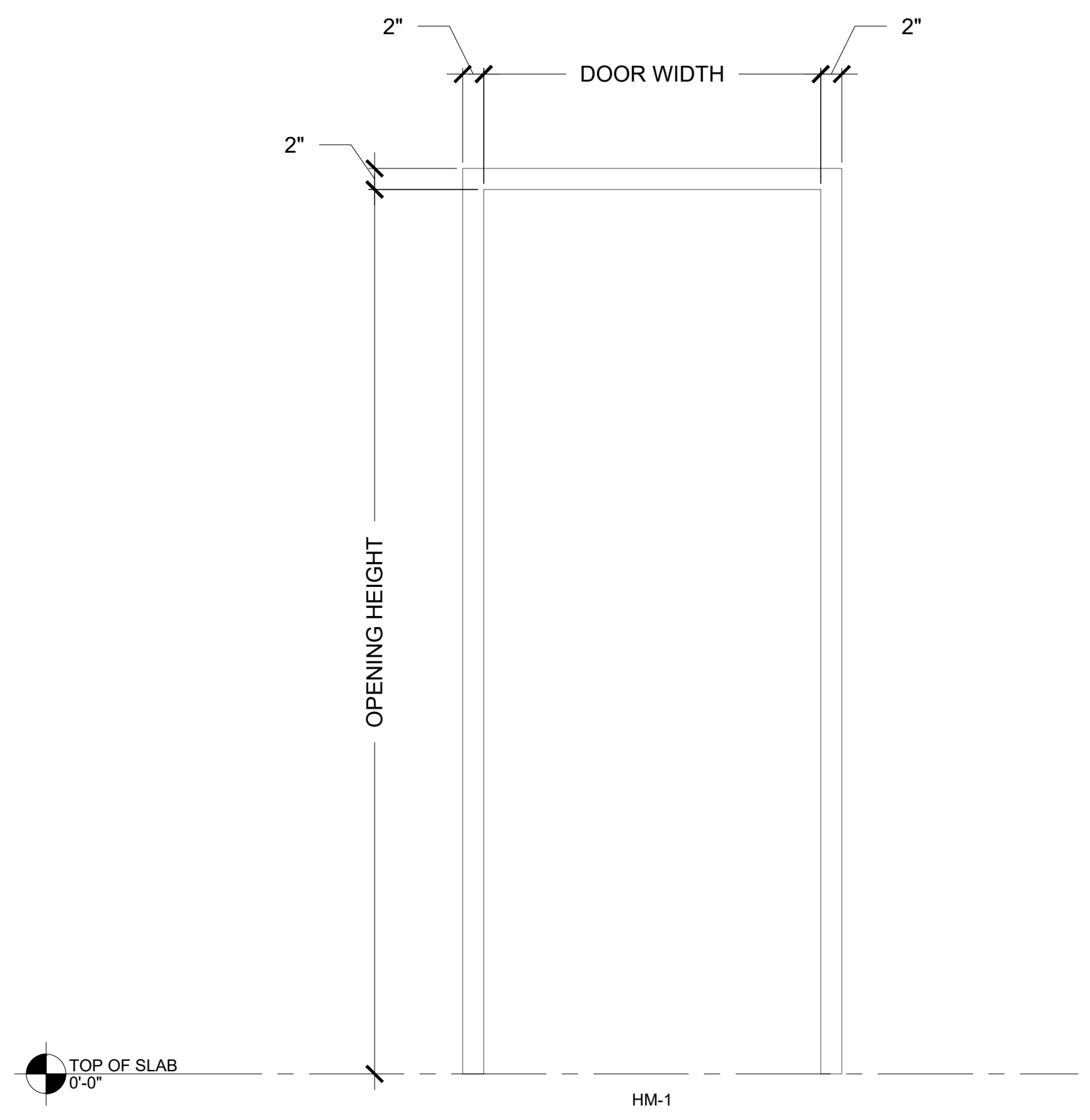
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DOOR SCHEDULE

#	DOOR			FRAME			NOTES				
	MATERIAL	TYPE	SIZE	TYPE	DETAILS			FIRE RATING	IMPACT RESISTANT	HARDWARE SET	REMARKS
					HEAD	JAMB	SILL				
100	HM	HL	(2) 3'-0"X7'-0"	HM-1	C1/A400	B1/A400	A3/A400	N/A	YES	~	
100.1	HM	HL	(2) 3'-0"X7'-0"	HM-1	C1/A400	B1/A400	A3/A400	N/A	YES	~	
101	HM	EX	3'-0"X7'-0"	EX	N/A	N/A	N/A	N/A	N/A	~	EXISTING DOOR TO REMAIN
102	HM	EX	3'-0"X7'-0"	EX	N/A	N/A	N/A	N/A	N/A	~	EXISTING DOOR TO REMAIN
102.1	HM	EX	3'-0"X7'-0"	EX	N/A	N/A	N/A	N/A	N/A	~	EXISTING DOOR TO REMAIN

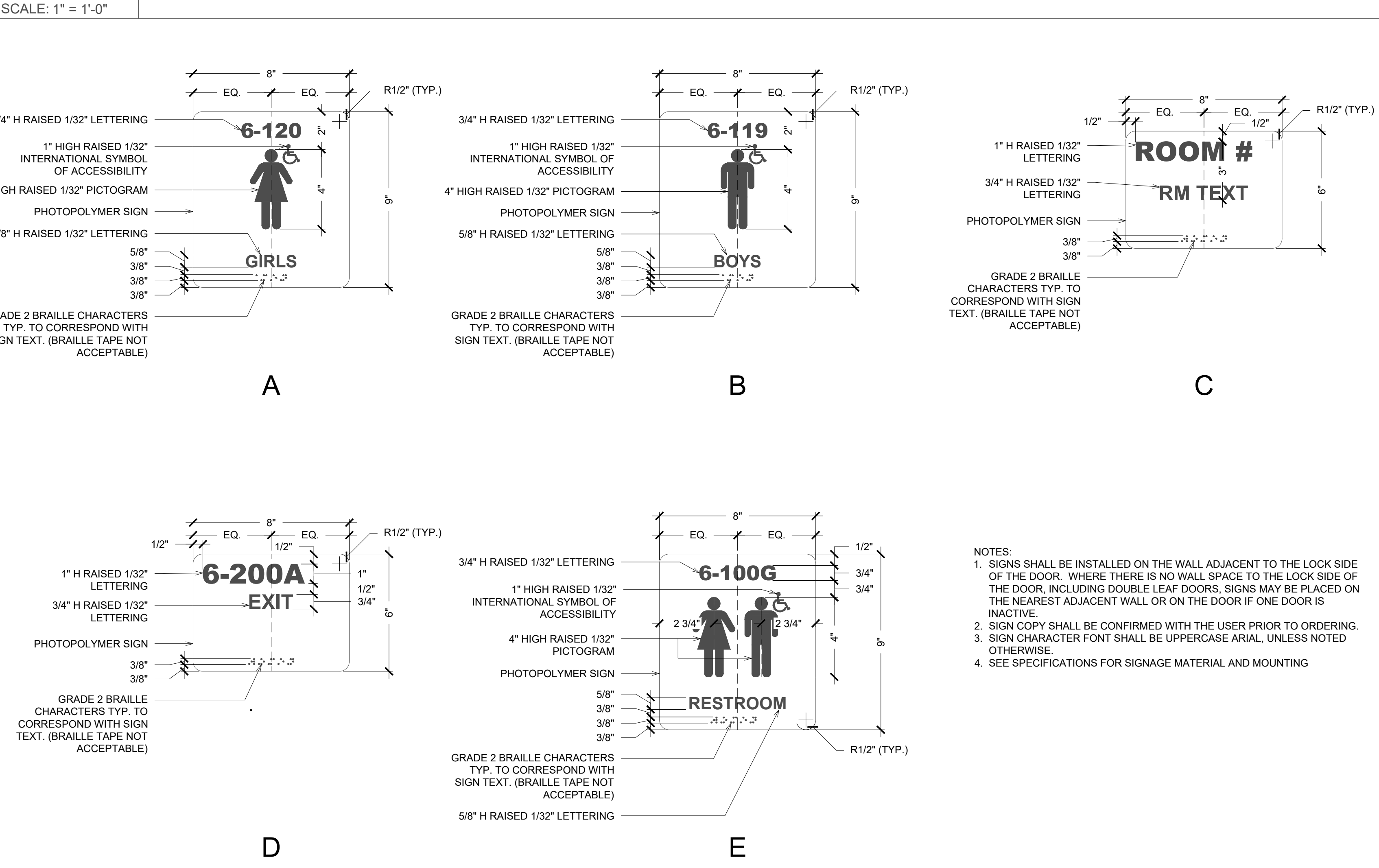
- EXTERIOR DOOR & STOREFRONT NOTES:**
- ALL EXTERIOR GLAZING TO BE INSULATED. CLEAR GLAZING WITH LOW-E COATING ON INNER SURFACE OF OUTBOARD LITE.
 - ALL EXTERIOR GLAZING TO COMPLY WITH U-FACTOR AND SHGC REQUIREMENTS IN TABLE 402.4 OF THE 2020 FLORIDA BUILDING CODE-ENERGY CONSERVATION.
 - ALL EXTERIOR GLAZING TO BE IMPACT RESISTANT GLASS RATED FOR LARGE AND TO HAVE FLORIDA PRODUCT APPROVAL NUMBER. MISSILE IMPACT.
 - ALL ALUMINUM FRAMING TO BE PRE-FINISHED. COLOR WHITE.
- DOOR SCHEDULE GENERAL NOTES:**
- A. DOOR MATERIAL ABBREVIATIONS**
 AL = ALUMINUM STOREFRONT
 GHM = GALVANIZED HOLLOW METAL
 HM = HOLLOW METAL
 IGHM = INSULATED GALV. HOLLOW METAL
 PH = PRE-HUNG
 STL = STEEL GALVANIZED
 UCD = UNDERCUT DOOR
 WD = SOLID WOOD CORE
 HL = HALF-LITE
- B. UNLESS NOTED OTHERWISE, WHERE GLASS OCCURS IN DOORS PROVIDE TEMPERED GLASS.**
- C. UNLESS NOTED OTHERWISE, ALL DOORS ARE 1-3/4" THICK.**
- DOOR SCHEDULE REMARKS:**
- DOOR TO BE ALARMED WITH DELAYED EGRESS FUNCTION FULLY COMPLYING WITH FBC SECTION 1008.1.9.7 DELAYED EGRESS LOCKS.
 - DOOR HAS LIMITED OVERHEAD CLEARANCE. VERIFY CLEARANCE REQUIRED FOR PROPOSED DOOR.



FRAME TYPES

DOOR TYPES

B1 DOOR SCHEDULE & TYPES



A1 DOOR SIGNAGE TYPES

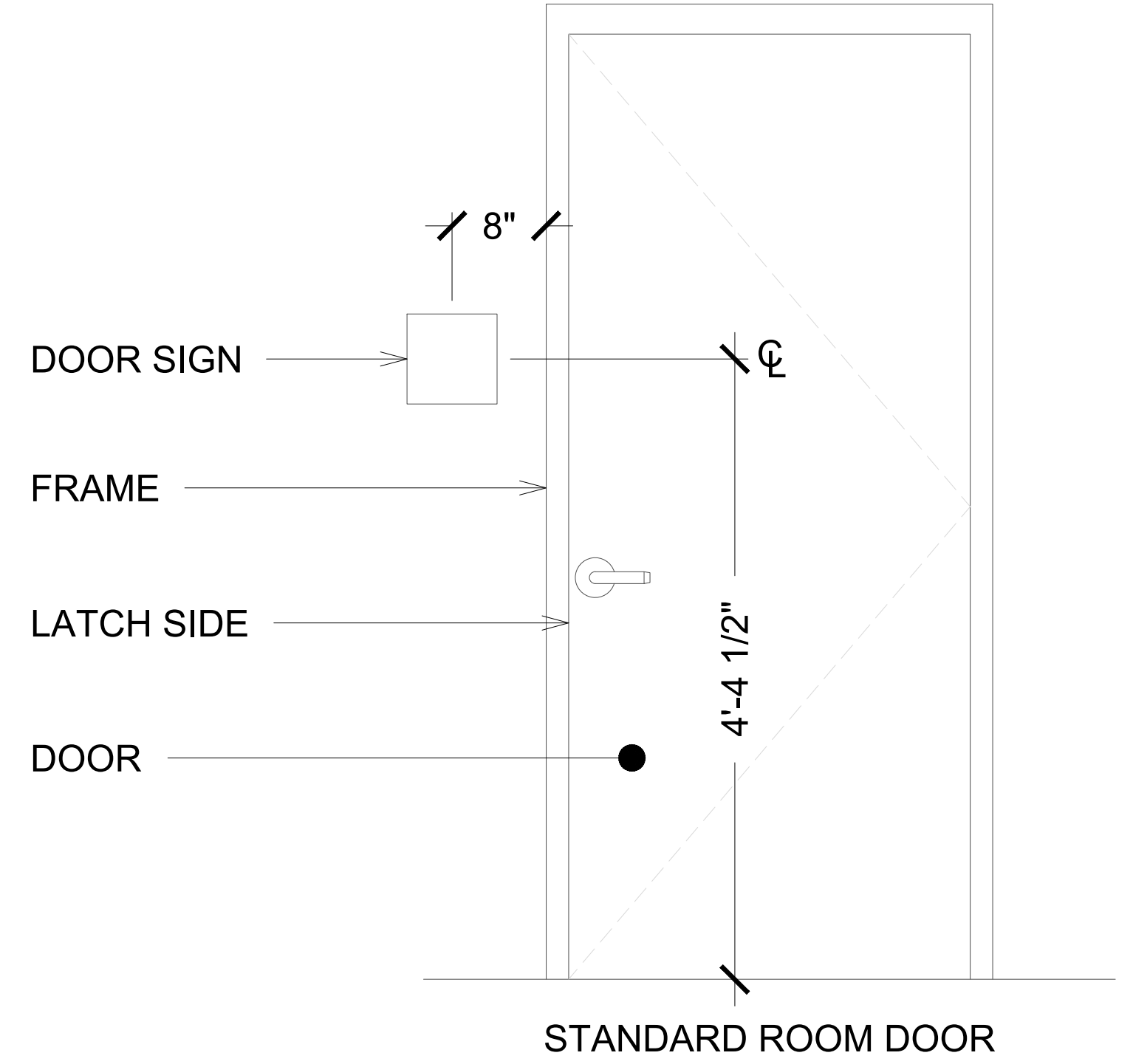
SCALE: 1/2" = 1'-0"

DOOR SIGNAGE SCHEDULE

DOOR #	ROOM NAME	SIGNAGE LABELS		REMARKS
		TYPE	SIGN TEXT	
100	GYMNASIUM	C	GYMNASIUM	ROOM # PER BAY DISTRICT SCHOOLS
100.1	GYMNASIUM	C	GYMNASIUM	ROOM # PER BAY DISTRICT SCHOOLS

A2 DOOR SIGNAGE SCHEDULE

SCALE: 1" = 1'-0"



STANDARD ROOM DOOR

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 PAVILION ENCLOSURE**

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DOOR SCHEDULE

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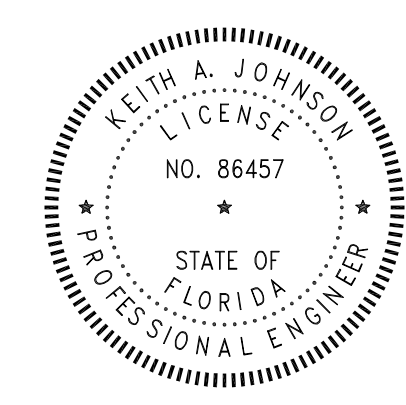
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PLANS FOR WALLER ELEMENTARY SCHOOL PAVILION ENCLOSURE

No.	Description	Date

PROJECT NUMBER	24097
DATED	12.13.2024



Florida CA Number: 27625
Keith A. Johnson P.E.
Florida License Number: 86457
862-522-3467
Project Number: 2024-071
Checked by: KAJ
Drawn by: JDD

4612 Orion Street, Marietta, Florida 32446
311 N. College St. Office 1018 Auburn, AL 36810

P001

LEGEND

- S or W SOIL OR WASTE PIPING
- V VENT PIPING
- CW COLD WATER SUPPLY PIPING
- HW HOT WATER SUPPLY PIPING
- HWR HOT WATER RETURN PIPING
- G GAS PIPING
- CV GATE VALVE
- CV CHECK VALVE
- BV BALL VALVE
- HB HOSE BIBB
- WH WALL HYDRANT
- CO CLEANOUT TO FLOOR
- FD FLOOR DRAIN
- COTS CLEANOUT TO GRADE
- UNION
- VTR VENT THRU ROOF
- SHEET NOTE
- POINT OF CONNECTION TO EXISTING
- MR MOP RECEPTOR
- WC WATER CLOSET
- TP TRAP PRIMER
- EWI ELECTRIC WATER HEATER
- WHA WATER HAMMER ARRESTOR TYPE A
- WHB WATER HAMMER ARRESTOR TYPE B
- WHC WATER HAMMER ARRESTOR TYPE C
- L LAVATORY
- KW KILOWATT
- TVC TEMPERATURE CONTROL VALVE
- WV WET VENT
- CP CIRCULATOR PUMP
- HD 2" HUB DRAIN WITH FLEXIBLE TRAP SEAL BY MIFAB OR EQUAL ABOVE CEILING UNLESS NOTED
- MV MIXING VALVE
- EWC ELECTRIC WATER COOLER
- UB UTILITY BOX
- SK SINK

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	FIXTURE CONNECTIONS-INCHES		
		CW	HW	W
EWC-1	ELECTRIC WATER COOLER (DUAL LEVEL)	3/8	-	1-1/2
HB	HOSE BIBB	3/4	-	-
WH	RECESSED WALL HYDRANT	3/4	-	-

1. WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM).
2. SEE ELECTRICAL DWGS FOR FINAL POWER REQUIREMENTS.
3. PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF ARRESTERS.

GENERAL NOTES

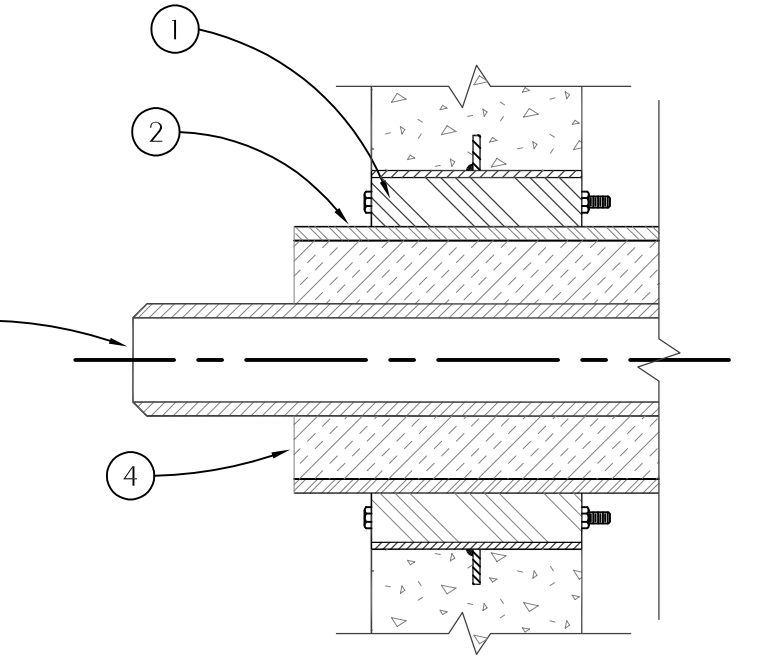
1. COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS AND EXISTING CONDITIONS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
2. PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH CIVIL DRAWINGS.
3. FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING.
4. ALL PIPING PASSING THROUGH ANY WALL SHALL HAVE A SLEEVE PER SPECIFICATIONS.
5. ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER SPECIFICATIONS. ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.
6. ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.
7. SEE TOILET ROOM ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHT.
8. COORDINATE EXACT LOCATION OF ALL EXTERIOR WALL HYDRANTS WITH ARCHITECTURAL DRAWINGS.
9. UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
10. PRIOR TO SUBSTANTIAL COMPLETION OF NEW AND ALTERED WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.
11. ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
12. ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. TRAP PRIMERS LOCATED IN THE VICINITY OF WATER CLOSETS SHALL BE ACTIVATED BY WATER CLOSET USAGE. ISOLATION VALVES SHALL BE OF THE QUARTER TURN BALL OR GATE TYPE.
13. CONTRACTOR SHALL DEVELOP AND SUBMIT COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.
14. ALL WORK SHALL COMPLY WITH THE 2023 FLORIDA BUILDING CODE.

PLUMBING FIXTURE SPECIFICATIONS

EWC-1 ELECTRIC WATER COOLER (DUAL PURPOSE/TWO LEVELS/BOTTLE STATION):

WALL MOUNT, DUAL-PURPOSE UNIT, SELF-CONTAINED ELECTRIC WATER COOLER WITH SENSOR-ACTIVATED BOTTLE FILLING STATION. FURNISH FLOOR MOUNTED TWO LEVELS DOUBLE CARRIER WITH BEARING PLATE, HANGAR PLATE, ADJUSTABLE SUPPORTING RODS, STRUCTURAL UPRIGHTS AND BLOCK BASES. SECURE TO FLOOR WITH 1/2" BOLTS AND ANCHORS. UNIT TO BE COMPLETE WITH HERMETIC AIR COOLED REFRIGERATION SYSTEM, COOLER PRE-COOKER, THERMOSTAT, SAFETY CONTROLS, CONDENSER FAN MOTOR, SILVER ION ANTIMICROBIAL PROTECTION ON KEY PLASTIC COMPONENTS, FLEXI-GUARD SAFETY BUBBLER, VERMIN PROOF INSULATION, HEAVY GAUGE STEEL CABINET, MOISTURE RESISTANT FINISH, QUIET OPERATION. TOP OF COOLER SHALL BE NO. 3 SAINT FINISH STAINLESS STEEL. COOLER CAPACITY SHALL BE 8.0 GPM, LAMINAR FLOW, VISUAL KILLER MONITOR, COOLING 80-DEGREE F. WATER TO 50 DEGREE F. PROVIDE ONE-YEAR WARRANTY ON ENTIRE COOLER. PROVIDE CHROME PLATED STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE SUPPLY. PROVIDE 1-1/2" CHROME PLATED 1/2" GAUGE CAST BRASS P-TRAP WITH CLEANOUT. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES. 115V/60HZ, SINGLE PHASE, 5 FULL LOAD AMPS, 370 RATED WATTS, HERMETICALLY-SEALED RECIPROCATING COMPRESSOR. VERIFY FINAL LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. FINISH TO BE SELECTED BY ARCHITECT. CERTIFIED TO NSF/ANSI 42, 53, 61, & 572. UL 599 REQUIREMENTS.

EDF ELKAY LZ5L8WSSP
TRAP ZURN Z-8702-PC
SUPPLIES ZURN Z-8400K
CARRIER Z1223 BL

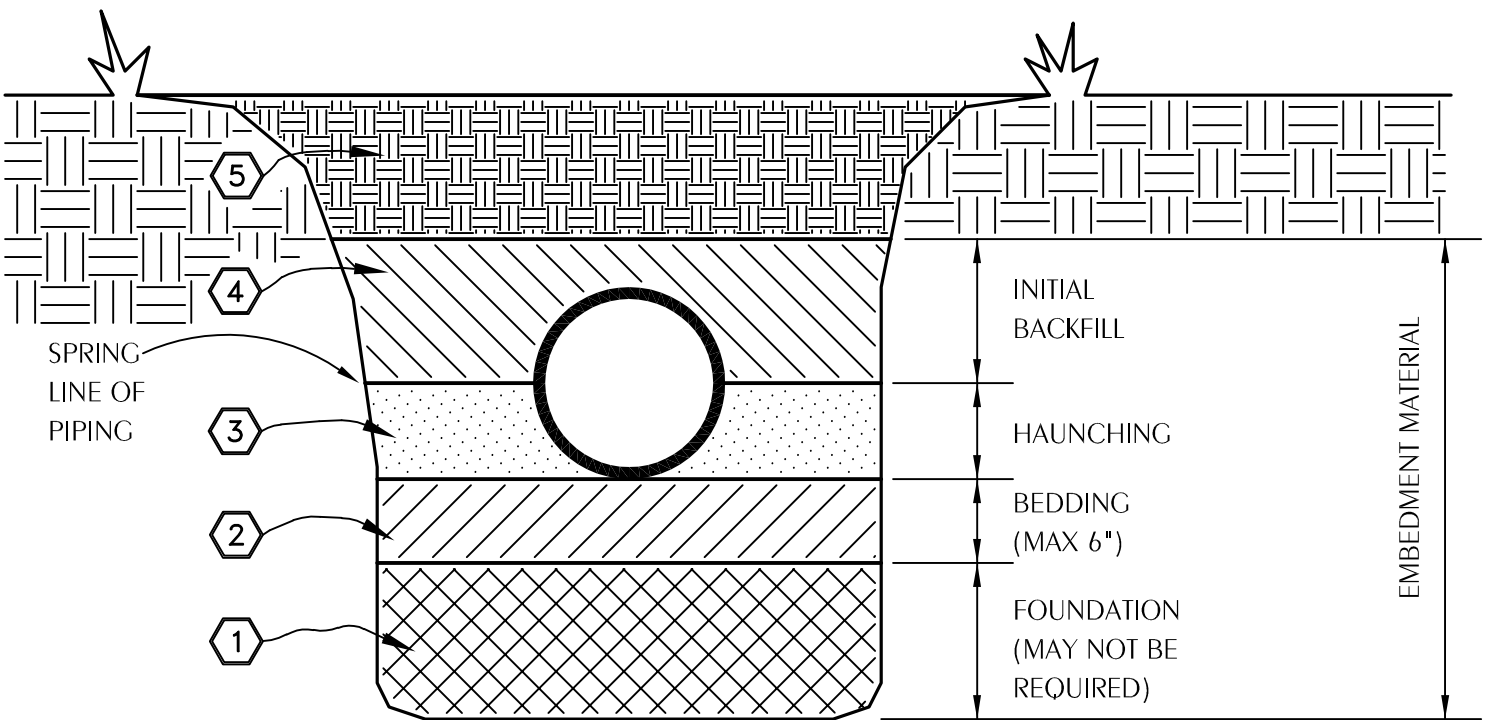


- 1 WALL SEAL APPURTENANCES PER SPECIFICATIONS
- 2 PIPE SLEEVE PER SPECIFICATIONS
- 3 PIPING
- 4 INSULATION

1 TYPICAL PIPE PENETRATION OF WALL

SCALE: NONE

- 1 A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL CONDITIONS.
- 2 BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS, CLASS II OR III MATERIAL SHALL BE HAND PLACED IN 4'-6" LIGHTLY COMPACTED UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET CONDITIONS, CLASS I, II OR III MATERIAL SHALL BE HAND PLACED IN 4'-6" UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE USE OF CLASS I MATERIAL.
- 3 HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
- 4 INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR III. IT SHALL BE PLACED WITHIN 24-30" ABOVE THE TOP OF THE PIPE AND TAMPED BY A PORTABLE VIBRATOR. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF ROADWAY.
- 5 FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. A MINIMUM OF 30% OF COVER OVER THE TOP OF THE PIPE SHALL BE PROVIDED BEFORE THE TRENCH IS WHEEL-LOADED.



- EMBEDMENT MATERIALS:
- CLASS I: ANGULAR, 1/4"-1-1/2", GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, CINDERS, CRUSHED STONE AND CRUSHED SHELLS.
 - CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1-1/2" INCLUDING VARIOUS GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY. SOIL TYPES CW, CP, SW, AND SP ARE INCLUDED IN THIS CLASS.
 - CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM, AND SC ARE INCLUDED IN THIS CLASS.
 - CLASS IV: SILT, SILTY CLAYS, AND CLAYS, INCLUDING INORGANIC CLAYS AND SILT OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS. SOIL TYPES MH, ME, CH, AND CL ARE INCLUDED IN THIS CLASS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.
 - CLASS V: THIS CLASS INCLUDES THE ORGANIC SOILS, AS WELL AS SOILS CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1-1/2" IN DIAMETER AND OTHER FOREIGN MATERIALS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

2 EXCAVATION AND BACKFILL DETAIL

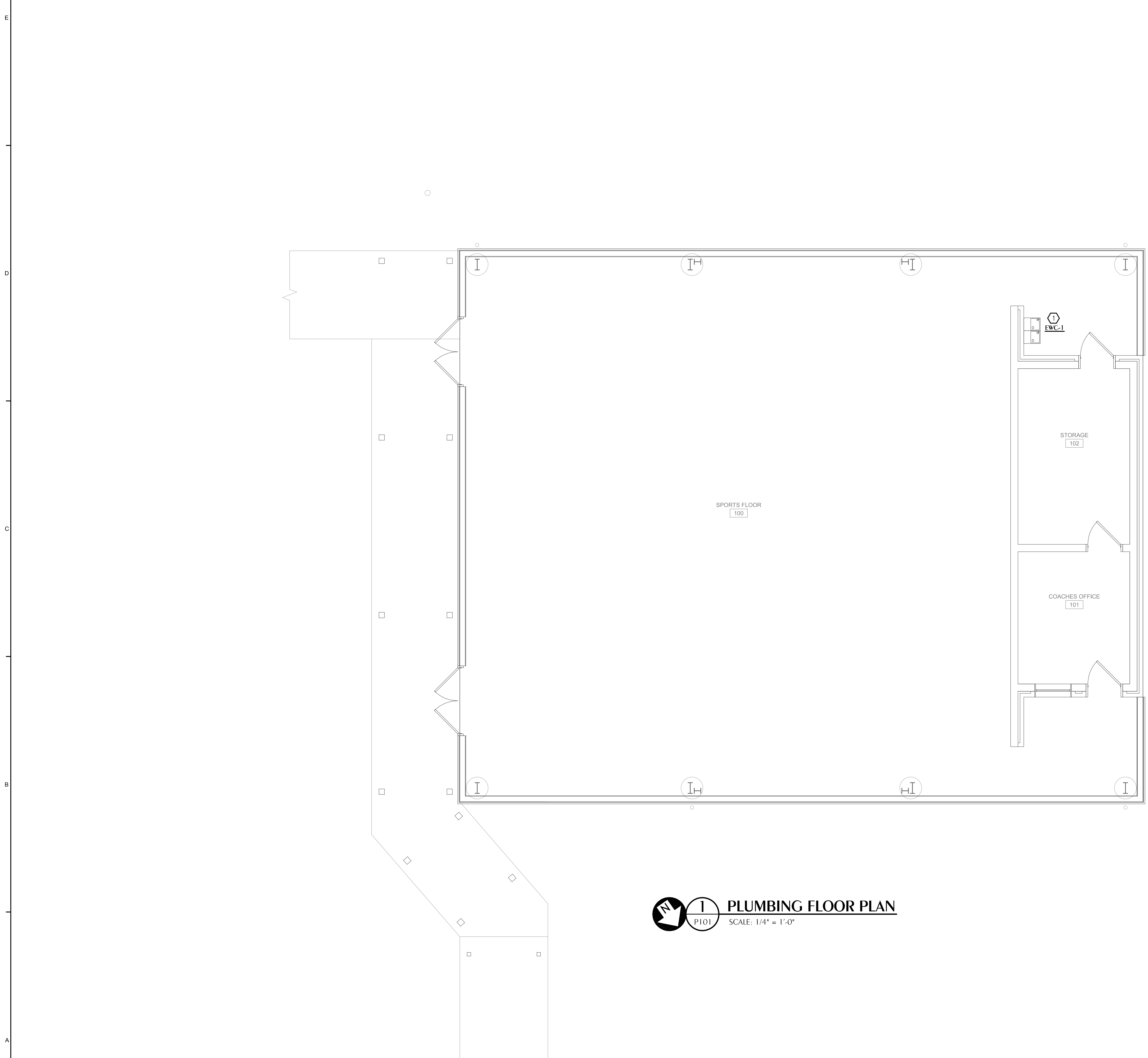
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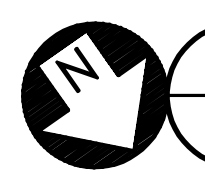
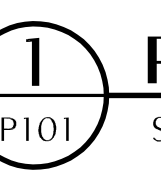


Florida CA Number: 27625
Keith A. Johnson P.E.
Florida License Number: 86457
862-522-3467
Project Number: 2024-071
Checked by: KAJ
Drawn by: JDD


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24097 PERMIT SET December 13th, 2024
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PLUMBING FLOOR PLAN
 SCALE: 1/4" = 1'-0"

SHEET NOTES

 EXISTING DRINKING FOUNTAIN SHALL BE DEMOLISHED. CONNECT TO EXISTING DOMESTIC WATER AND SANITARY AS REQUIRED TO SERVE NEW EWC.


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PERMIT SET

PLANS FOR
**WALLER ELEMENTARY SCHOOL
 PAVILION ENCLOSURE**

REVISIONS:

No.	Description	Date

PLUMBING FLOOR PLAN

PROJECT NUMBER **24097**
 DATED **12.13.2024**

REFERENCE:
 FINISHED FLOOR ELEVATION = 0'-0"


Florida CA Number: 27625
 Florida PE License Number: 84457
 4452 Orion Street Marietta, Florida 32446
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P101

LEGEND

Legend table with columns for Equipment Tag, Detail Tag, Sheet Note, and various ductwork symbols like AHU-1, SR-1, TYP, TEMP, SA, RA, EA, MA, OA, TA, EF, CD, RC, EG, ER, CREF, AHU, BF, T1, S, FD, UC, DG, AFF, FD, XFR, ESP, TAB, NOM, VFD, (F), PHP, etc.

GENERAL NOTES

- 1. ALL DUCT DIMENSIONS ARE NET INSIDE.
2. VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS, TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
3. FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL NEW DUCTWORK FOR LEAKS. SEE SPECIFICATIONS.
4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
5. PROVIDE DUCT FLEX CONNECTIONS & VIBRATION ISOLATION FOR ALL UNITS NOT INTERNALLY ISOLATED.
6. ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
7. ALL AHU AND OAU FILTERS SHALL BE OF A READILY AVAILABLE SIZE, OF DISPOSABLE TYPE, AND BE ACCESSIBLE WITHOUT THE USE OF SCREWS OR OTHER MECHANICAL DEVICES REQUIRING TOOLS.
8. PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING. COORDINATE ALL SIZES AND LOCATIONS WITH ARCHITECT DURING SUBMITTALS. PROVIDE PLANS IF REQUIRED BY ARCHITECT.
9. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION OF ALL EQUIPMENT AND UTILITIES.
10. CONTRACTOR SHALL SUBMIT COORDINATED DUCTWORK SHOP DRAWINGS INDICATING COORDINATION WITH ELECTRICAL, PLUMBING, AND FIRE PROTECTION, PRIOR TO BEGINNING WORK. SHOP DRAWINGS SHALL INCLUDE LOCATIONS OF THERMOSTATS, ACCESS PANELS, AIR DEVICES, DUCTWORK, ETC.
11. ALL WORK SHALL COMPLY WITH EIGHTH EDITION OF FLORIDA BUILDING CODE (2023).

DUCTWORK NOTES

- 1. ALL ROUND FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8M ACOUSTICAL FLEX OR ENGINEER APPROVED EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0" WHERE LENGTH REQUIRED EXCEEDS 5'-0". INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
2. SEAL ALL DUCT PENETRATIONS OF WALLS AND FLOORS AIRTIGHT, REGARDLESS OF WHETHER WALLS OR FLOORS ARE FIRE RATED OR NOT.
3. ALL SUPPLY AIR DUCTWORK FROM AHU'S (EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS) SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
4. ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
5. ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
6. STANDARD EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A, SHEET METAL.
7. WHEN ROUTING DUCTWORK OVER LIGHTS, PROVIDE A MINIMUM 6" CLEARANCE BETWEEN DUCT AND LIGHTS.

AIR DEVICE SCHEDULE

Table with columns: MARK, MAX AIRFLOW CFM, AIR DEVICE SIZE, DUCT CONNECTION SIZE, TITUS MODEL. Rows include CD-1 CFM, CD-2 CFM, CD-3 CFM, SWG-1 CFM, XX-1 CFM, XX-2 CFM, XX-3 CFM.

- 1. MAX NG=20
2. PROVIDE 2X2 LAY-IN PANEL FOR AIR DEVICES IN LAY-IN CEILINGS
3. PROVIDE BEVELED MOUNTING FRAME FOR CEILING DIFFUSERS IN HARD CEILINGS.
4. PROVIDE FLAT MOUNTING FRAME FOR GRILLES LOCATED IN HARD CEILINGS.

VENTILATION SCHEDULE

Table with columns: SPACE TYPE, VENTILATION CFM/S.F., VENTILATION CFM/PERSON, EXHAUST CFM. Row: MULTISE ASSEMBLY.

NOTE: VENTILATION AIR HAS BEEN CALCULATED IN COMPLIANCE WITH ASHRAE STANDARD 62.1-2019 INDOOR AIR QUALITY METHOD. THE INDOOR AIR QUALITY METHOD IS UTILIZED AS A MEANS OF REDUCTION IN OUTDOOR AIR AND IS SUBMITTED FOR APPROVAL AS AN ALTERNATE DESIGN IN ACCORDANCE WITH IRC 104.1. BIPOLAR IONIZATION IS UTILIZED TO CLEAN INDOOR AIR AND MAINTAIN ACCEPTABLE INDOOR AIR QUALITY WITH A REDUCTION IN OUTDOOR AIRFLOW.

AIR PURIFICATION EQUIPMENT SCHEDULE

Table with columns: ZONE, AHU, SUPPLY CFM, OA CFM, PRESS. IN. W.C., BASIS OF DESIGN, MODEL, QUANTITY, ELECTRICAL VOLTS/PHASE, WATTS, NOTES.

- 1. CPS = GLOBAL PLASMA SOLUTIONS
2. PROVIDE BASIS OF DESIGN OR EQUAL LISTED IN SPECIFICATIONS.
3. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
4. MANUFACTURER MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER UL OR ETL

PACKAGED HEAT PUMP SCHEDULE - OWNER FURNISHED

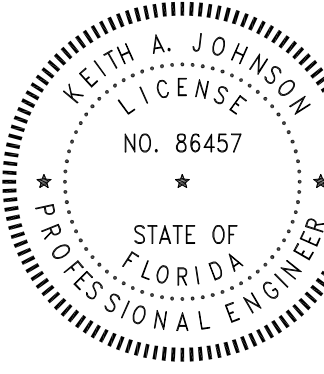
Table with columns: UNIT PHP, BASIS OF DESIGN, MODEL, CONFIGURATION, SA (CFM), OA (CFM), ESP (INH2O), FAN (HP), MAT* (DB/WB), OAT* (DB/WB), COOLING TOTAL (BTU/H), SENSIBLE (BTU/H), SEER, HEATING EAT* (DB), OAT* (DB), TOTAL (BTU/H), COP, SUPPL. HEAT, PHP ELECTRICAL VOLTS/PHASE, MCA, MOP, WEIGHT, NOTES.

- 1. PROVIDE 2" 90% FILTERS AND FILTER HOUSING SHOWN IN DETAILS.
2. EFFICIENCIES IN ACCORDANCE WITH ARI STANDARD 210/240.
3. ESP DOES NOT INCLUDE FILTER, CASING, ETC.
4. PROVIDE CONTROL KIT TO INCLUDE BLOWER CONTACTOR OR STARTER, TRANSFORMER, ELECTRIC HEATER INTERLOCKS. ELECTRICAL SERVICE SHALL BE A SINGLE POINT OF CONNECTION.
5. PROVIDE THERMAL EXPANSION VALVES.
6. DIRECT DRIVE FAN.
7. COOLING CAPACITY IS NET AND DOES NOT INCLUDE FAN HEAT.
8. PROVIDE POWERED 120V CONVENIENCE OUTLET.
9. PROVIDE MERV 13 FILTERS.
10. PROVIDE HOT GAS REHEAT.



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PLANS FOR WALLER ELEMENTARY SCHOOL PAVILION ENCLOSURE

REVISIONS:

Table with columns: No., Description, Date

HVAC LEGEND, SCHEDULES, AND NOTES

PROJECT NUMBER 24097
DATED 12.13.2024



Florida CA Number: 27825
Keith A. Johnson P.E.
Florida License Number: 86457
850.387.1871
Project Number: 2024-071
Checked By: KAJ
Drawn By: JFG

SHEET NOTES

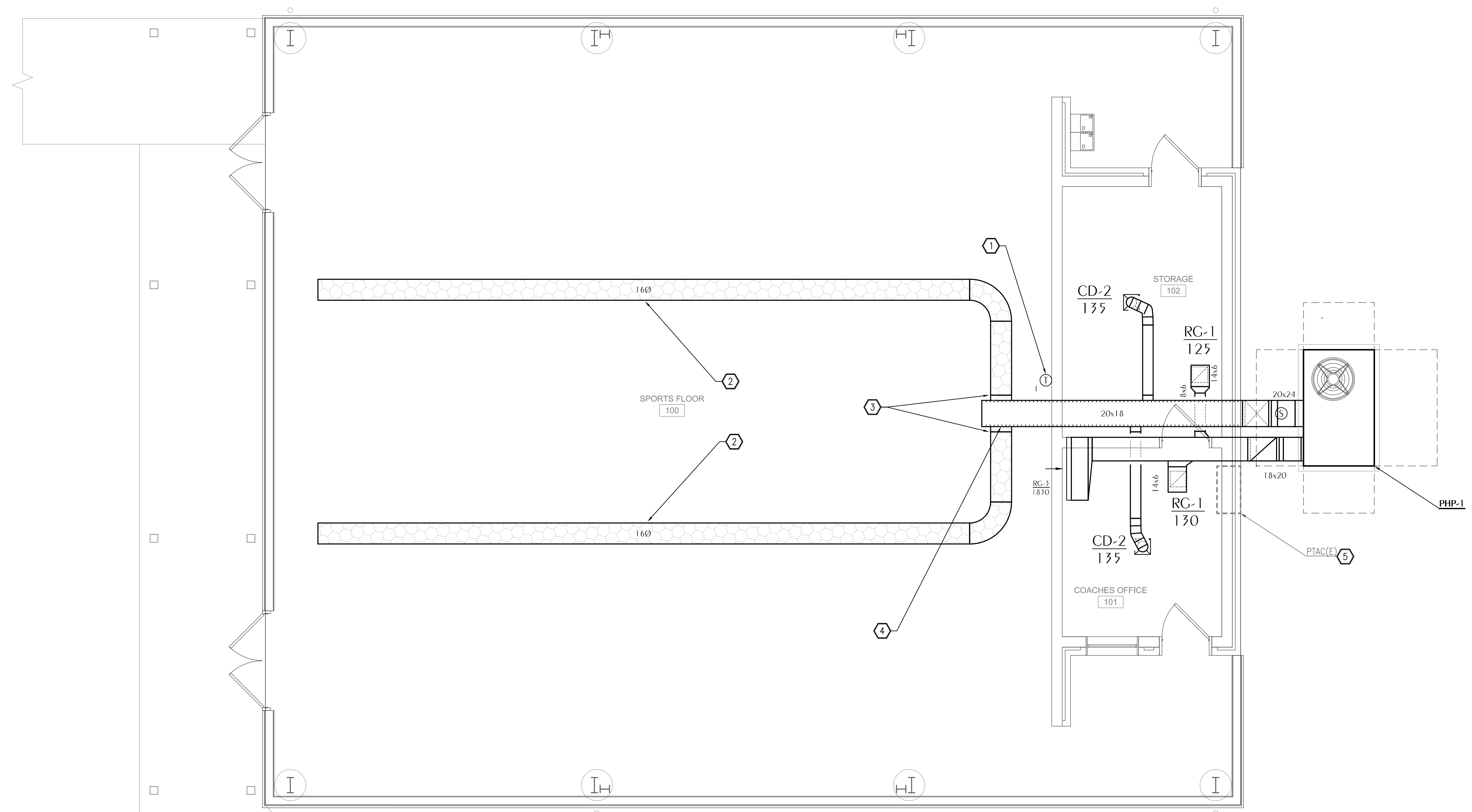
- 1 PROVIDE WIRE GUARD FOR THERMOSTAT.
- 2 AIRFLOW TO BE BALANCED SYMMETRICALLY FOR A TOTAL CFM OF 2330, 1165 PER SIDE.
- 3 TRANSITION FROM METAL DUCTWORK TO FABRIC DISPERSION DUCTWORK.
- 4 ALL DUCTWORK THAT IS NOT FABRIC SHALL BE PAINT GRIP GALVANIZED STEEL. DUCT SHALL BE PAINTED SAME COLOR AS FABRIC DUCT BY GENERAL CONTRACTOR.
- 5 REMOVE EXISTING PTAC AND EXISTING CONTROLS. PTAC SHALL BE TURNED OVER TO THE OWNER. REFER TO ARCHITECTURAL PLANS FOR WALL PATCHING.



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

PLANS FOR
**WALLER ELEMENTARY SCHOOL
PAVILION ENCLOSURE**

REVISIONS:

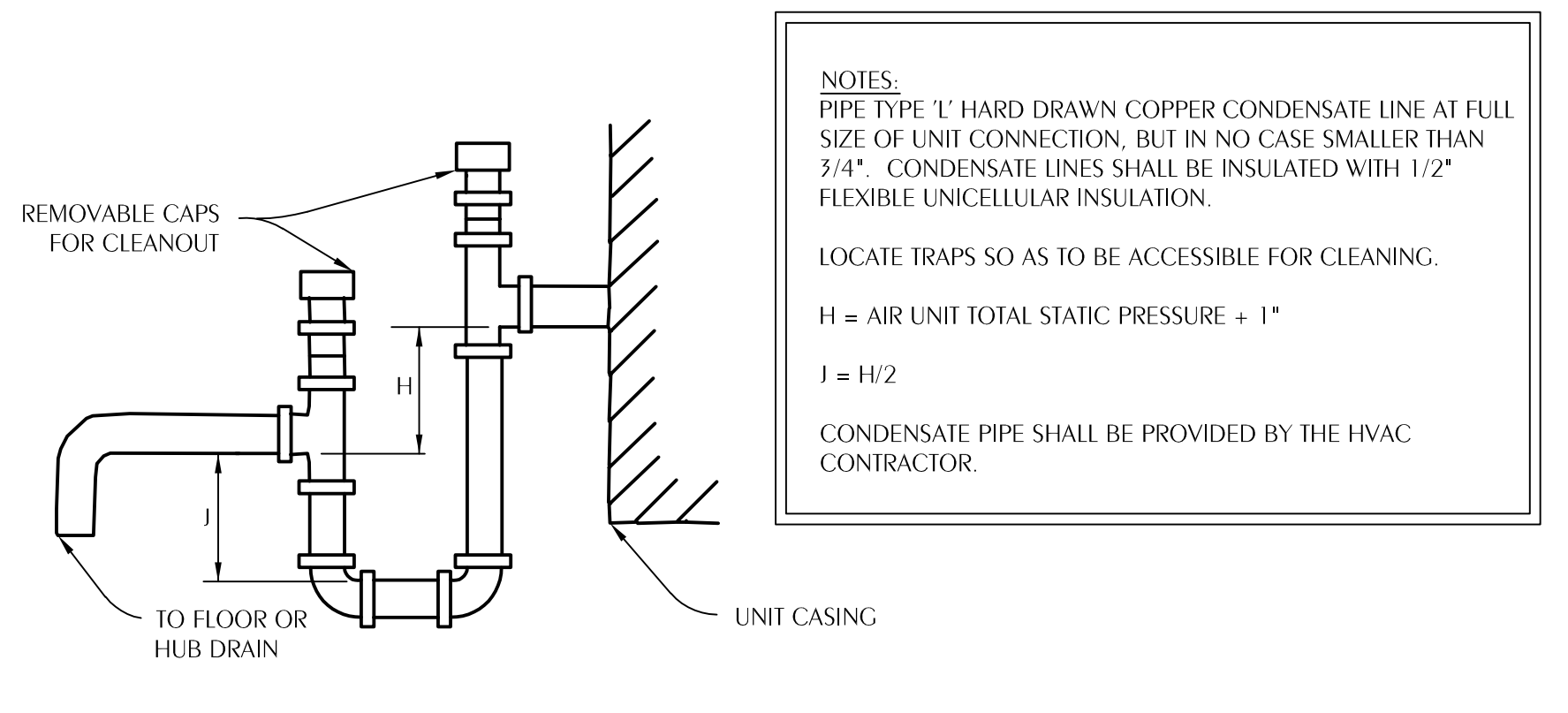
No.	Description	Date

HVAC NEW WORK
FLOOR PLAN

PROJECT NUMBER **24097**
DATED **12.13.2024**

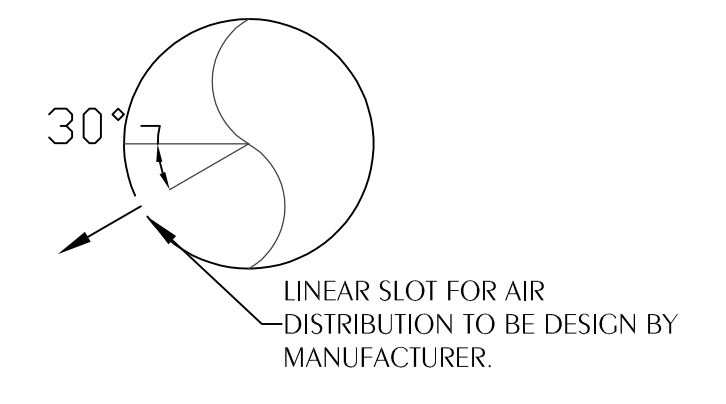
Florida CA Number: 27825
Ralph A. Johnson, P.E.
Florida License Number: 66457
905.525.2447
Project Number: 2024-071
Checked By: RJA
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M101

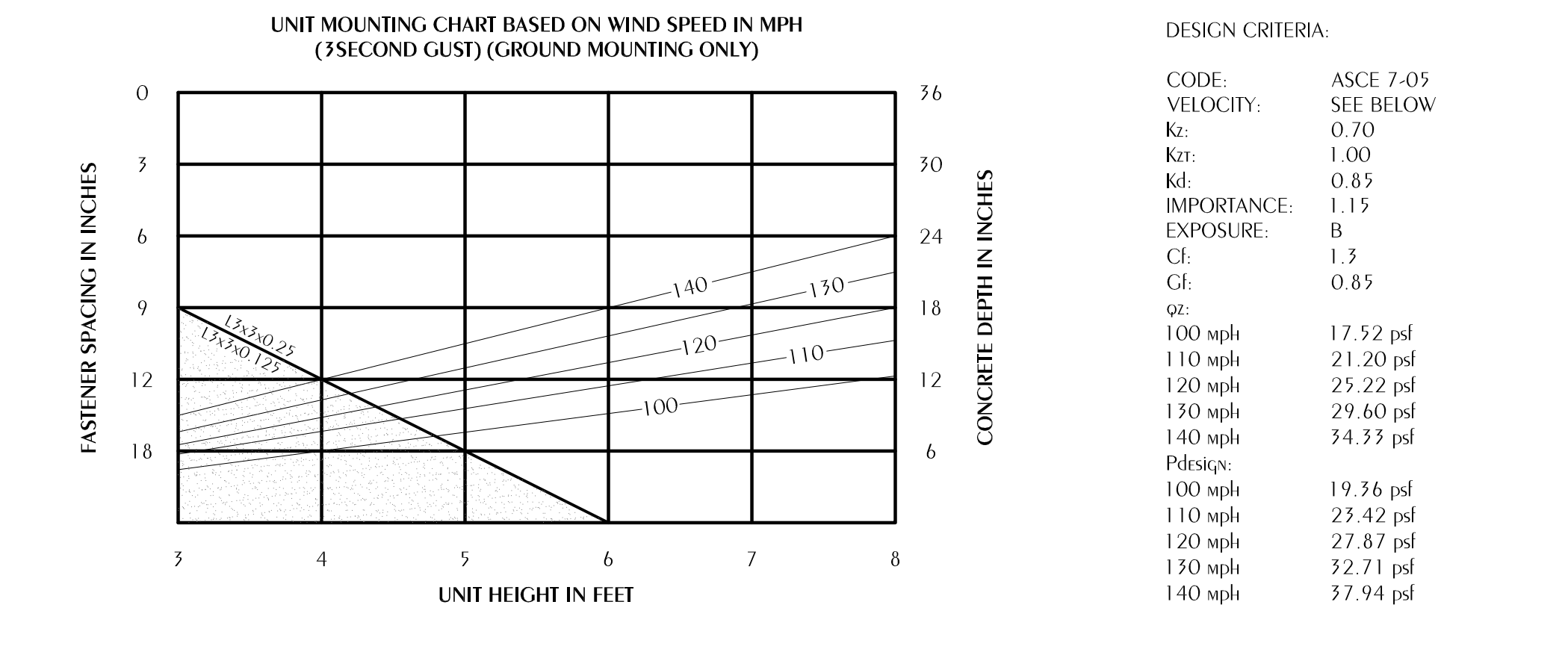
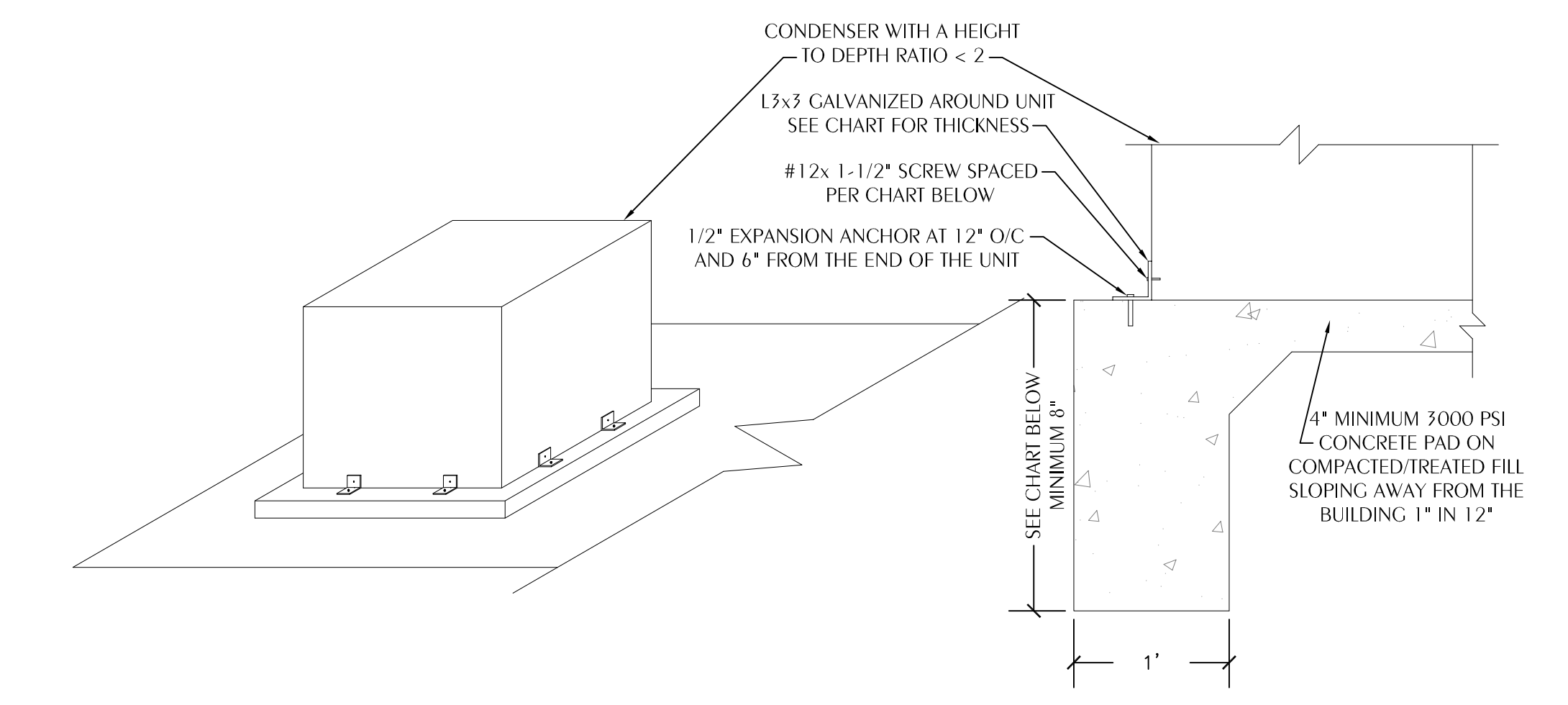


NOTES:
PIPE TYPE 1" HARD DRAWN COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4". CONDENSATE LINES SHALL BE INSULATED WITH 1/2" FLEXIBLE UNICELLULAR INSULATION.
LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
H = AIR UNIT TOTAL STATIC PRESSURE + 1"
J = H/2
CONDENSATE PIPE SHALL BE PROVIDED BY THE HVAC CONTRACTOR.

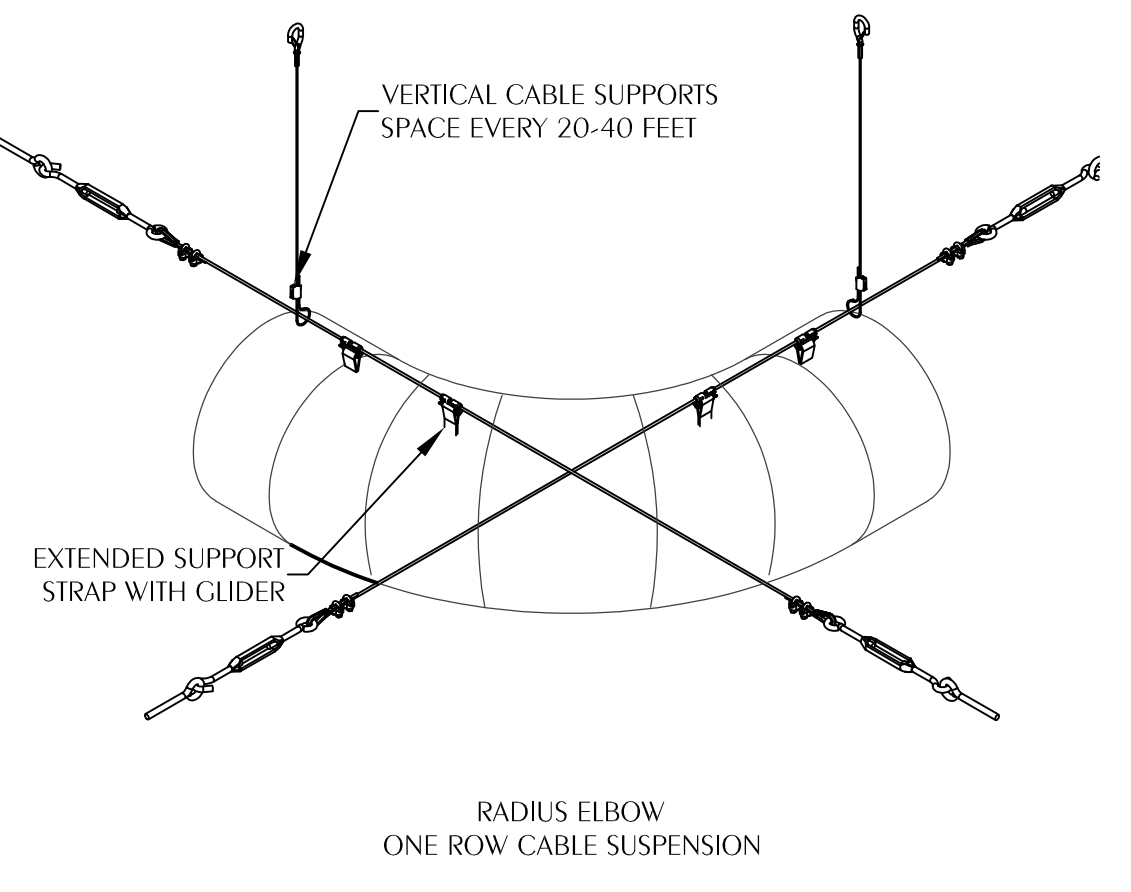
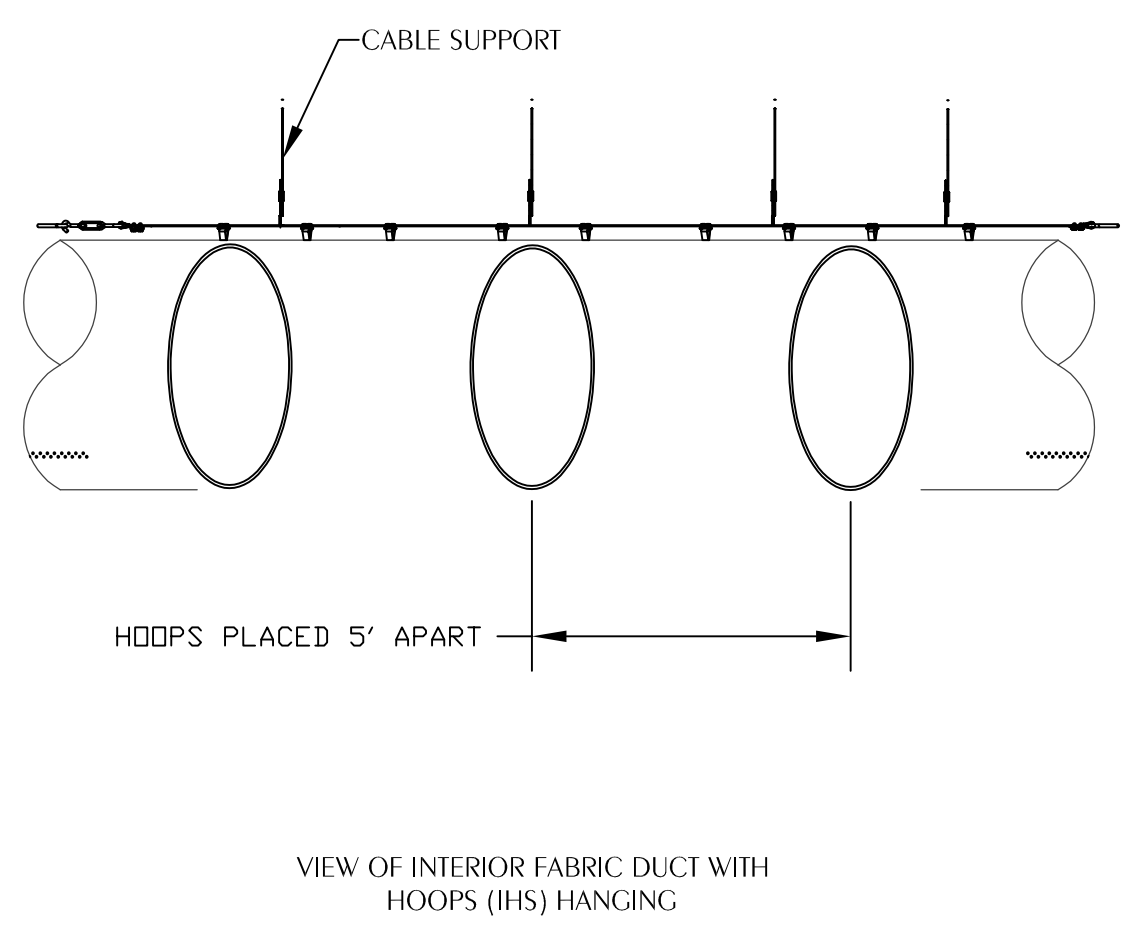
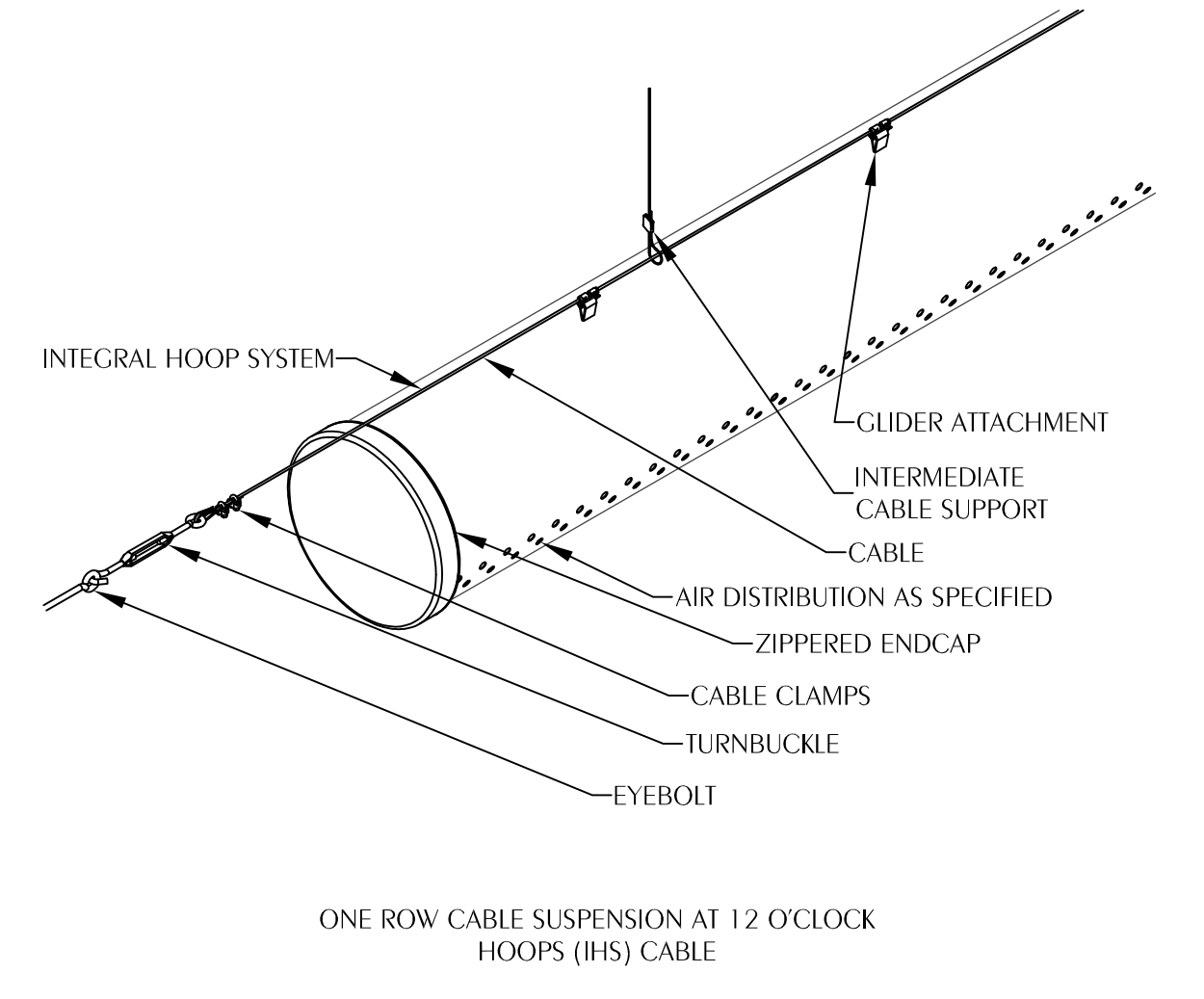
1 NEGATIVE PRESSURE CONDENSATE DRAIN TRAP
M201 SCALE: NONE



2 LINEAR SLOT DETAIL
M201 SCALE: NONE

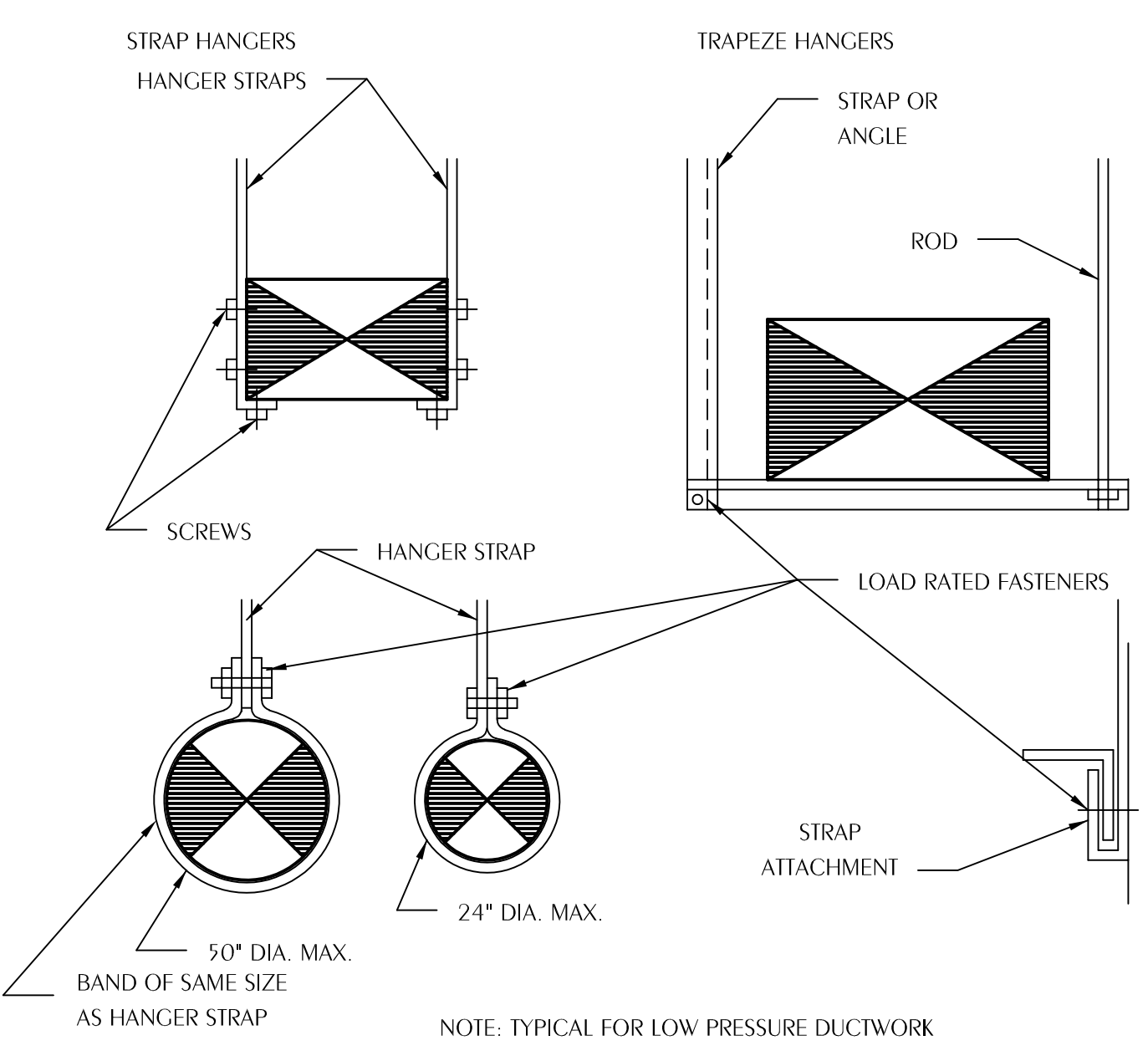


4 OUTDOOR MECHANICAL UNIT MOUNTING DETAIL
M201 SCALE: NONE

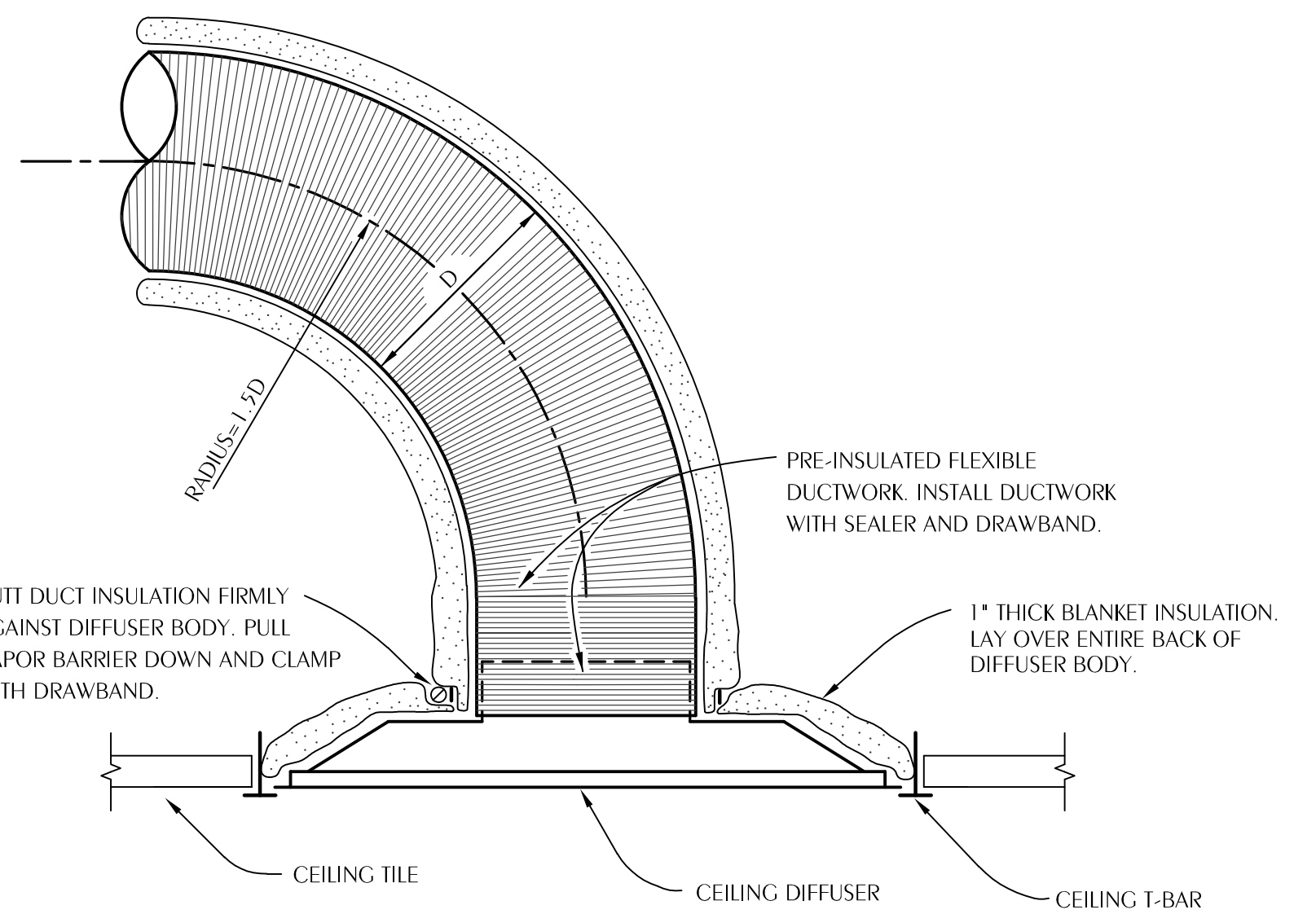


NOTE:
HOOP SYSTEM IS REQUIRED IN ORDER FOR DUCT TO MAINTAIN SHAPE IN LOW-FLOW CONDITIONS.

3 SUSPENSION DETAIL
M201 SCALE: NONE

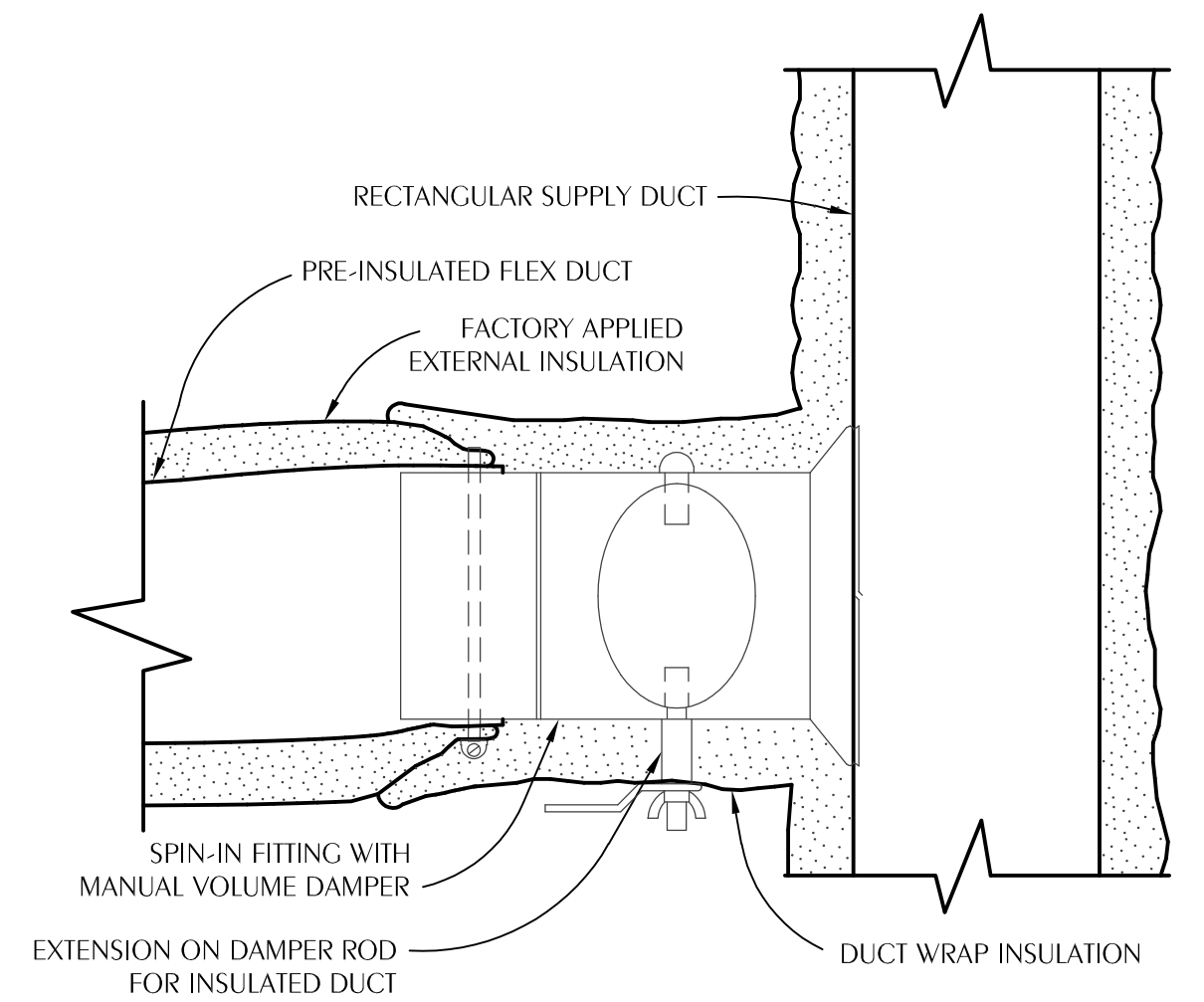


5 DUCT HANGER DETAILS
M201 SCALE: NONE



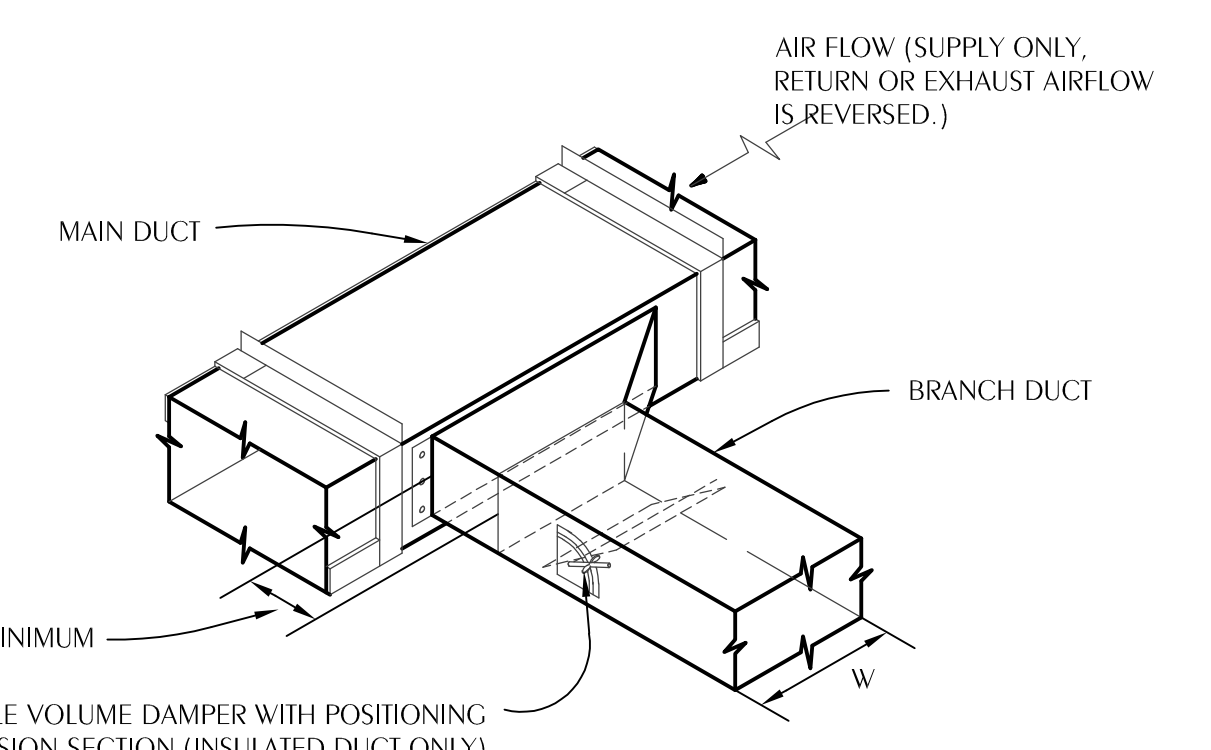
NOTES:
FLEX DUCT SHALL BE NO LONGER THAN 5'-0". FLEXIBLE DUCT SHALL HAVE REINFORCED, METALIZED POLYESTER JACKET WITH NO FIBERGLASS EROSION IN THE AIRSTREAM AND AN ENCAPSULATED WIRE HELIX. FLEX DUCT SHALL HAVE OPERATING PRESSURE OF 6" W.G. AND NEGATIVE OPERATING PRESSURE OF 0.75" W.G. FLEX DUCT SHALL HAVE R-VALUE OF R-6 AND MEET REQUIREMENTS OF UL-181, 2023 FLORIDA ENERGY CODE, NFPA 90A AND NFPA 90B. ATCO 76 OR APPROVED EQUAL.
PROVIDE 24x24 LAY IN PANEL FOR DIFFUSERS IN LAY IN CEILINGS.
PROVIDE BEVELED MOUNTING FRAME FOR DIFFUSERS IN HARD CEILINGS.

6 TYPICAL CEILING DIFFUSER DETAIL
M201 SCALE: NONE



NOTES:
CONNECT FLEXIBLE DUCT TO FITTING WITH DRAWBAND AND SEALER.
ROUND HARD DUCT RUNOUTS SHOULD START WITH SPIN-IN FITTINGS SIMILAR TO THIS DETAIL.
PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF CEILING DIFFUSER FOR INACCESSIBLE TAKEOFFS.
FLEXIBLE INSULATION SHALL BE 2" THICK, ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK)

7 TYPICAL FLEX DUCT TAKEOFF DETAIL
M201 SCALE: NONE



NOTES:
PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF AIR DEVICE FOR INACCESSIBLE TAKEOFFS LOCATED ABOVE HARD CEILINGS.
FLEXIBLE INSULATION SHALL BE 2" THICK, ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK)

8 TYPICAL BRANCH DUCT TAKEOFF
M201 SCALE: NONE

REVISIONS:

No.	Description	Date

**SEQUENCE OF OPERATION
PACKAGED HEAT PUMP UNIT**

GENERAL: STARTING AND STOPPING OF EQUIPMENT SHALL BE BY A ROOM MOUNTED BACnet THERMOSTAT WITH HUMIDITY SENSOR. THE UNIT SHALL BE STARTED AUTOMATICALLY BY THE BACnet THERMOSTAT AND ALL CONTROLS ACTIVATED SUBJECT TO THE FIRE ALARM RELAY, SAFETIES AND OVERLOADS. THE CONTROLLER SHALL PROVIDE A FOUR DEGREE DEADBAND (ADJUSTABLE FROM THE GRAPHIC UP TO FIVE DEGREES) BETWEEN THE HEATING AND COOLING SETPOINTS.

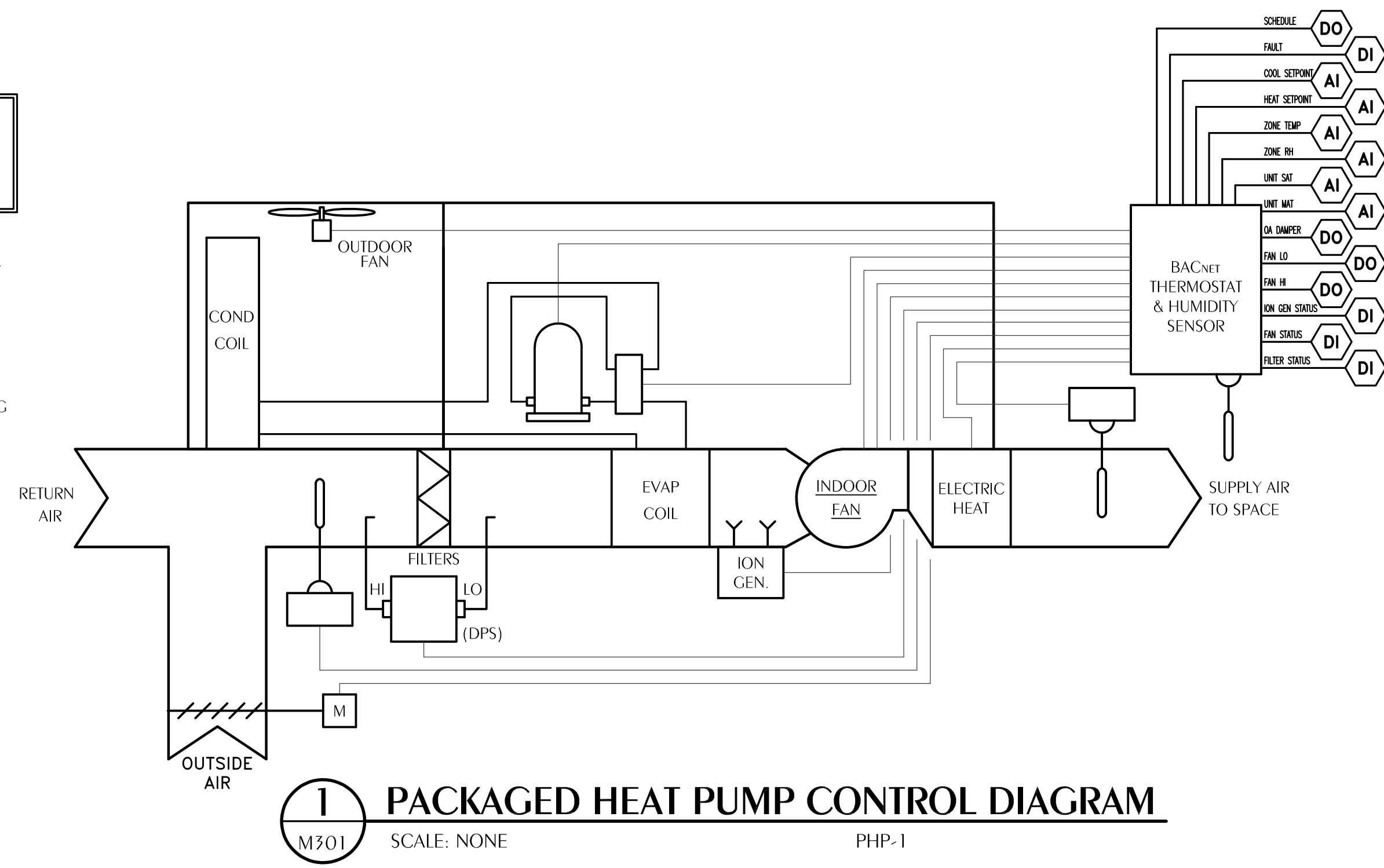
OCCUPIED MODE: THE MOTORIZED OA DAMPER SHALL OPEN TO THE BALANCED POSITION AND THE INDOOR FAN SHALL RUN CONTINUOUSLY. THE CONDENSING UNIT SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE. THE SUPPLEMENTAL ELECTRIC HEAT SHALL BE DISABLED UNLESS THE OUTDOOR TEMPERATURE IS BELOW 35°F OR THE UNIT IS OPERATING IN DEFROST CYCLE. THE SETPOINT FOR COOLING SHALL BE 75°F ADJUSTABLE FROM THE GRAPHIC. THE SETPOINT FOR HEATING SHALL BE 70°F ADJUSTABLE FROM THE GRAPHIC. THE INDOOR FAN SHALL START AND RUN AT A REDUCED SPEED AS THE FIRST STAGE OF TEMPERATURE CONTROL. IF THE CALL FOR TEMPERATURE CONTROL IS NOT MET AFTER 7 1/2 MINUTES, THE INDOOR FAN SHALL INCREASE TO FULL FAN SPEED AND RUN UNTIL THE CALL FOR TEMPERATURE CONTROL IS SATISFIED. DUAL STAGE OR CIRCUITED UNITS SHALL RUN START THE FIRST STAGE OF COOLING OR HEATING WITH THE FIRST STAGE COMPRESSORS.

UNOCCUPIED MODE: THE MOTORIZED OA DAMPER SHALL CLOSE. THE INDOOR FAN AND CONDENSING UNIT SHALL CYCLE TO MAINTAIN SETPOINT TEMPERATURE. THE SETPOINT FOR COOLING SHALL BE 80°F ADJUSTABLE FROM THE GRAPHIC. THE SETPOINT FOR HEATING SHALL BE 65°F ADJUSTABLE FROM THE GRAPHIC.

OVERRIDE MODE: THE OVERRIDE MODE SHALL PLACE THE SYSTEM IN OCCUPIED MODE FOR ONE HOUR AND THE OUTSIDE AIR DAMPER FOR THE UNIT IN OVERRIDE SHALL OPEN TO THE BALANCED POSITION.

HUMIDITY CONTROL: UPON A CALL FOR DEHUMIDIFICATION, THE UNIT SHALL RUN AT FULL COMPRESSOR LOAD AND MINIMUM AIRFLOW UNTIL THE CALL FOR DEHUMIDIFICATION IS SATISFIED (SPACE RH < SETPOINT - 5%) OR THE SPACE FALLS TWO DEGREES BELOW THE HEATING SETPOINT. THE SETPOINT FOR DEHUMIDIFICATION SHALL BE 60%, ADJUSTABLE FROM THE GRAPHIC.

BIPOLAR IONIZATION: THE BACnet THERMOSTAT SHALL MONITOR THE DIGITAL ALARM OUTPUT ON THE IONIZATION DEVICE AND THE DDC SHALL MONITOR THIS POINT AND POST AN ALARM IF THERE IS A FAILURE.



PACKAGED HEAT PUMP POINTS LIST

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS/FUNCTIONS				ALARM	GRAPHIC
	AI	AO	DI	DO	AV	DV	SCHED	TREND		
SCHEDULE				X						X
FAULT			X						X	X
ZONE TEMP SETPOINT	X									X
ZONE TEMP (T)	X								X	X
ZONE HUMIDITY (RH)	X								X	X
SUPPLY AIR TEMP (SAT)	X									X
MIXED AIR TEMPERATURE (MAT)	X									X
OA DAMPER				X						X
FAN LO SPEED				X						X
FAN HI SPEED				X						X
ION GENERATOR STATUS			X						X	X
FAN STATUS			X						X	X
FILTER STATUS			X						X	X



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PLANS FOR
**WALLER ELEMENTARY SCHOOL
PAVILION ENCLOSURE**

REVISIONS:

No.	Description	Date

HVAC CONTROLS

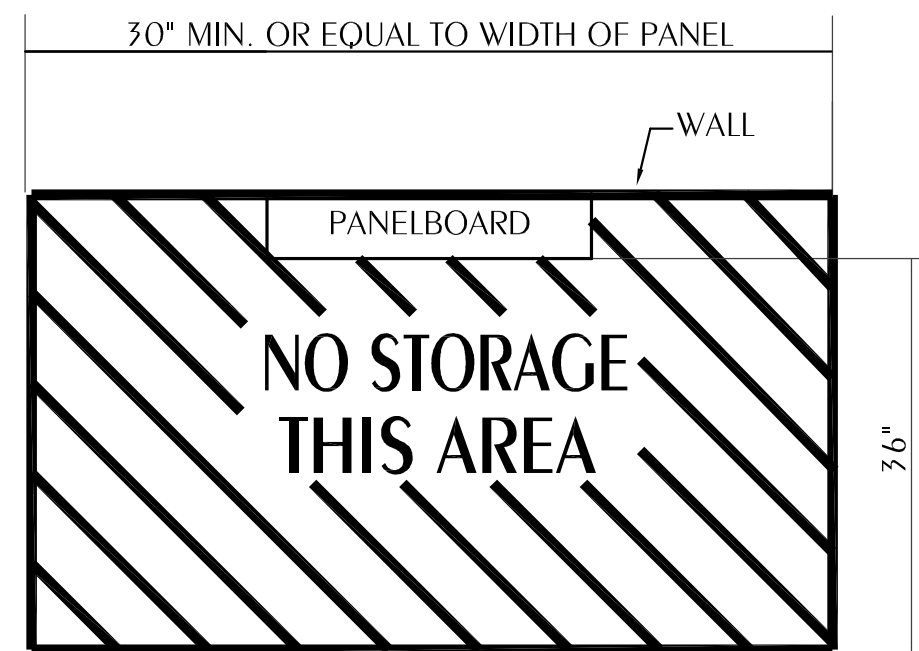
PROJECT NUMBER **24097**
DATED **12.13.2024**



M301

DEMOLITION NOTES

- ALL EXISTING SYSTEMS AND CONDITIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXISTING ELECTRICAL CIRCUITS OF POWER, RECEPTACLES, LIGHTING, ETC. BEING REMOVED MAY NOT BE SHOWN ON THESE DOCUMENTS, BUT ARE TO BE REMOVED AS REQUIRED TO BUILD THIS PROJECT AND TO PERMIT NEW FINISHES, WALLS, ETC. THE CONTRACTOR SHALL FIELD-VERIFY ALL CONDITIONS PRIOR TO BEGINNING ANY WORK AND SHALL NOTIFY THE ARCHITECT OF DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST AND SHALL PERFORM ANY ADDITIONAL WORK NECESSARY TO PERFORM THE WORK AS SHOWN AND SPECIFIED.
- IF A DEVICE IS BEING REMOVED AND THE CIRCUIT FEEDS OTHER LOADS FROM THE DEVICE, THEN THE WIRING SHALL BE MADE CONTINUOUS TO THE REMAINING LOADS. NO CIRCUIT CONTINUITY SHALL BE LOST.
- IF A DEVICE IS BEING REMOVED AND NOT PART OF A DEMO WALL, THAT LOCATION SHALL BE RESTORED TO MATCH ADJACENT SURFACE.
- REMOVE ALL DISCONNECTS, WIRING, AND CONDUITS SERVING MECHANICAL EQUIPMENT BEING REMOVED OR RELOCATED.
- CONTRACTOR TO REMOVE ALL CONDUITS, AND ASSOCIATED WIRING FROM DEVICES BEING REMOVED BACK TO PANEL UNLESS NOTED OTHERWISE. WHEN ALL LOADS ON EXISTING BREAKERS ARE REMOVED, RELABEL BREAKER AS 'SPARE'.



1 TYPICAL CLEARANCE AT ELECTRICAL PANELS
E001 SCALE: NOT TO SCALE

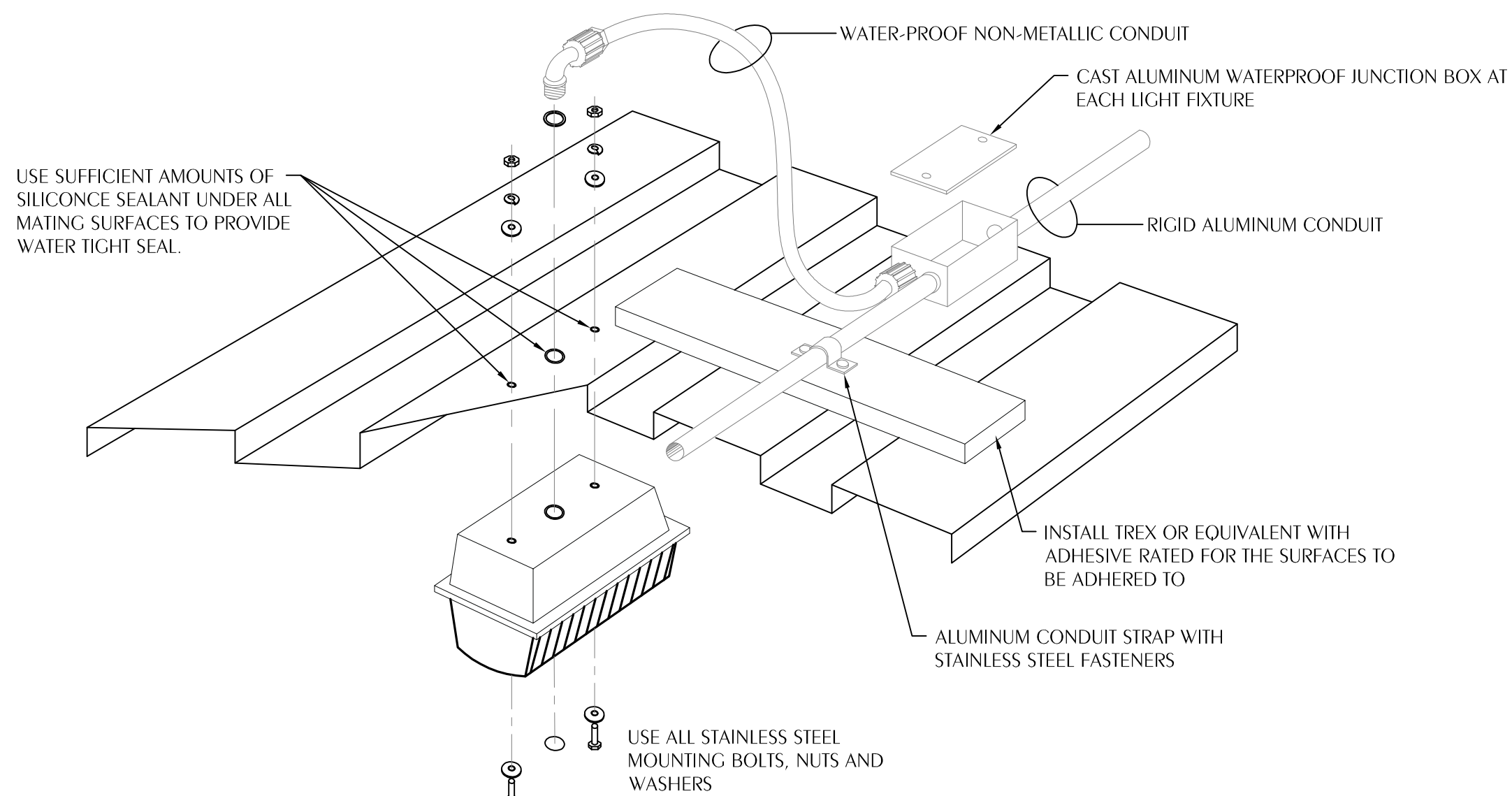
ELECTRICAL GENERAL NOTES

- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO AV DRAWINGS FOR REQUIRED RACEWAYS, EXACT SIZE, AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
- LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR AUDIO-VISUAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL AV EQUIPMENT LOCATIONS TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
- FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
- ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC., SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE AUDIO-VISUAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- FURNISH ALL EQUIPMENT AND LABOR. PERFORM ALL LABOR WITH SUPERVISION. BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
- COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE, 2020 NATIONAL ELECTRIC CODE, AND 2023 FBC BTH EDITION. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
- OBTAIN ARCHITECT'S/ENGINEER'S APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC., PRIOR TO PURCHASING.
- TERMINATIONS FOR ALL EQUIPMENT SHOWN TO HAVE TEMPERATURE RATING OF 75deg C PER NEC 2011 ART. 110.14 & TABLE 310.15(B)(16).
- WHERE USED, PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS IN ACCORDANCE WITH NEC 210.4(B).
- ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING UPON COMPLETION OF THE PROJECT:
 - PANEL SCHEDULE TO BE VERIFIED BY ENGINEER OF RECORD
 - ON THE RECEPTACLE, SHOW LABEL WITH PANEL AND BREAKER
 - ON MAIN PANEL LABEL PHASE ROTATION, WHERE APPLICABLE
 - PROVIDE PERMANENT TAG ON TRANSFORMER FOR EVERY MAIN PANEL GOING TO TRANSFORMER, WHERE APPLICABLE
 - PROVIDE ON EVERY PANEL AND SWITCHGEAR PAIRED TRANSFORMER, WHERE APPLICABLE
 - ALL NEW AND EXISTING PANELS WITHIN PROJECT SCOPE SHALL BE LABELED TO INDICATE SOURCE PANEL AND PROTECTING BREAKER SIZE, WHERE APPLICABLE
- PRIOR TO DISCONNECTING/RECONNECTING OF PANELS/EQUIPMENT, EC TO FIELD-VERIFY AND NOTE PHASE ROTATION. PRIOR TO RECONNECTION, PHASE ROTATION TO BE CONFIRMED.

NO EQUALS ALLOWED

LIGHTING FIXTURE SCHEDULE

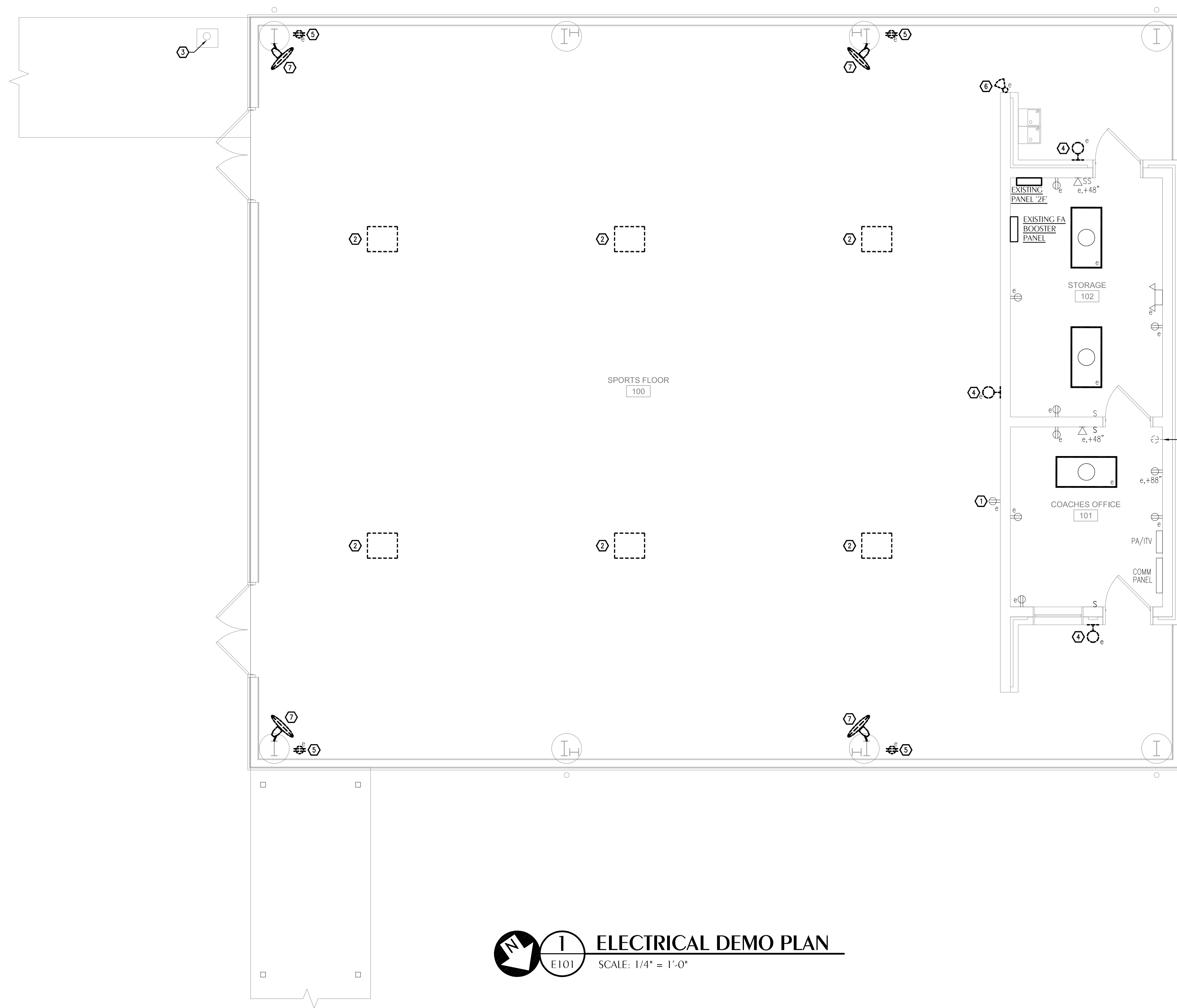
MARK	MANUFACTURER AND CATALOG No.	LAMPS		MOUNTING	REMARKS
		No.	TYPE		
BP	LITHONIA LIGHTING #ELMH4-UVOLT-LFP-SDRT ELA-WG3	-	1 D W LED	WALL @ 7'-6" A.F.F.	BATTERY PACK, SELF DIAGNOSTICS, 120V, WITH WIREGUARD
BPX BPXA	LITHONIA LIGHTING #LHQM-LED-R-SD ELA-WG3	-	LED	WALL @ 6" ABOVE DOOR	BATTERY PACK/EXIT SIGN COMBO, SELF DIAGNOSTICS, 120V, WITH WIREGUARD WALL MOUNT 6" ABOVE DOOR TO BOTTOM OF FIXTURE
CL4	LC DOANE #RW34-1W26-40/80-AW-VAR-DM-TP-W-(OPTIONS)	24W	4000K LED	SURFACE MOUNT TO CANOPY	4" HIGH OUTPUT LED STRIP, 4000K, UNV, VANDAL-RESISTANT, 120V, WET LOCATION LISTED
CL4E	LC DOANE #RW34-1W26-40/80-AW-VAR-DM-TP-W-EM	24W	4000K LED	SURFACE MOUNT TO CANOPY	4" HIGH OUTPUT LED STRIP, 4000K, UNV, VANDAL-RESISTANT, 120V, WET LOCATION LISTED, W/ EMERGENCY BATTERY BACKUP
HB	TRULY GREEN SOLUTIONS #CHB-E-100W-40K-WD-U-D-W-PM	100W	4000K LED	PENDANT MOUNT REFER TO DWG FOR HT	PENDANT MOUNTED HIGH BAY LED, STD 0-10V DIMMING, IMPACT RESISTANT, FINISHED BY ARCH, 120V. REFER TO DRAWING(S) FOR MOUNTING HEIGHT
LSS	H.E. WILLIAMS #75-4-L50-840-WG75-ACF/D48-DIM-UNV	37W	4000K LED	SUSPENDED REFER TO DWG FOR HT	SUSPENDED 4' LED FIXTURE, 4000K, UNIV VOLTAGE, W/ WIRE GUARD
WB	TOPAZ #F-WP-60W/50K/BZ/HE	60W	5000K LED	WALL MOUNT @ 8'-5" A.F.F.	EXTERIOR WALLPACK, FINISH BY ARCH, 120V
WBE	TOPAZ #F-WP-60W/50K/BZ/EM	60W	5000K LED	WALL MOUNT @ 8'-5" A.F.F.	EXTERIOR WALLPACK, FINISH BY ARCH, EMERGENCY DRIVER, 120V



2 TYPICAL CANOPY MOUNTED LIGHT FIXTURE DETAIL
E001 SCALE: NOT TO SCALE

ELECTRICAL LEGEND

- CEILING OUTLETS**
- RECESSED/SURFACE 2' X 4' LED FIXTURE MARK "A" CIRCUIT TYPICAL
 - RECESSED/SURFACE 2' X 4' LED FIXTURE INSTALLED FOR CONTINUOUS OPERATION
 - INDICATES FIXTURE WITH EMERGENCY UNIT BATTERY PACK
 - SURFACE MOUNTED, RECESSED OR SUSPENDED LED FIXTURE MARK "A" AS NOTED
 - SURFACE MOUNTED/SUSPENDED LED STRIP FIXTURE MARK "FS" AS NOTED
 - EXIT LIGHT
 - JUNCTION BOX
 - RECESSED/SURFACE MOUNT LIGHT
 - RECESSED/SURFACE MOUNT LIGHT INSTALLED FOR CONTINUOUS OPERATION
 - EXHAUST FAN
- PANELS AND POWER**
- 120/208 VOLT PANELBOARD
 - EXISTING 120/208 VOLT PANELBOARD
 - NON-FUSIBLE DISCONNECT SWITCH. XXXYZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
- FIRE ALARM SYSTEM**
- FIRE ALARM SYSTEM MANUAL PULL STATION, MT 48" AFF TO C/L
 - FIRE ALARM SYSTEM SIGNAL HORN/STROBE, MT 60" AFF TO BOTTOM
 - WEATHERPROOF FIRE ALARM SYSTEM SIGNAL HORN, MOUNT 80" AFF TO BOTTOM
 - FIRE ALARM SYSTEM STROBE, MT, 80" AFF TO BOTTOM
 - FIRE ALARM SYSTEM SIGNAL HORN/STROBE, 135 DEGREE/RATE OF RISE TYPE, CEILING MOUNTED
 - FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR, CEILING MOUNTED
 - FIRE ALARM SYSTEM RACEWAY INSTALLED CONCEALED, ARROW INDICATES HOMERUN TO FIRE ALARM CONTROL PANEL
 - FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN SUPPLY AIR DUCT
 - FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN RETURN AIR DUCT
 - NORMALLY CLOSED RELAY IN H.V.A.C CONTROL CIRCUIT TO OPEN UPON ACTUATION OF BUILDING FIRE ALARM SYSTEM TO SHUT DOWN A/C UNIT. CONTACTS RATED 5 AMPS, 120 VOLTS.
 - REMOTE INDICATOR LIGHT, FIELD-VERIFY EXACT LOCATION OF INSTALLATION
 - FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS, WHERE APPLICABLE, EC TO PROVIDE 120V POWER AT DEVICE
 - FIRE ALARM SYSTEM FLOW SWITCH
 - FIRE ALARM SYSTEM TAMPER SWITCH
- WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)**
- A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT, MOUNT 48" AFF TO C/L
 - A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT, MOUNT 48" AFF TO C/L
 - A.C. TYPE, 4-WAY, 20 AMP, 120/277 VOLT, MOUNT 48" AFF TO C/L
 - MOTOR-RATED TOGGLE SWITCH; FIELD-VERIFY EXACT HT & LOCATION WITH EQUIPMENT INSTALLER
 - WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED) EQUAL TO WATSTOPPER PW-100, SET DELAY OFF TIME FOR 10 MINUTES (120/277V), MOUNT 48" AFF TO C/L
 - PROGRAMMABLE LOW-VOLTAGE MULTI-LEVEL SWITCH TO BE INTERLOCKED WITH DIGITAL LIGHTING MANAGEMENT (DIM) SYSTEM. REFER TO 'DIM' DETAIL FOR WIRING REQUIREMENTS. MOUNT 48" AFF TO C/L; WATSTOPPER LMSW-105-W.
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 - A.C. TYPE, 4-WAY, 20 AMP, 120/277 VOLT, MOUNT 48" AFF TO C/L
 - MOTOR-RATED TOGGLE SWITCH; FIELD-VERIFY EXACT HT & LOCATION WITH EQUIPMENT INSTALLER
 - WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED) EQUAL TO WATSTOPPER PW-100, SET DELAY OFF TIME FOR 10 MINUTES (120/277V), MOUNT 48" AFF TO C/L
 - PROGRAMMABLE LOW-VOLTAGE MULTI-LEVEL SWITCH TO BE INTERLOCKED WITH DIGITAL LIGHTING MANAGEMENT (DIM) SYSTEM. REFER TO 'DIM' DETAIL FOR WIRING REQUIREMENTS. MOUNT 48" AFF TO C/L; WATSTOPPER LMSW-105-W.
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 - A.C. TYPE, 3-WAY,



SHEET NOTES

- ① EXISTING RECEPTACLE TO REMAIN.
- ② HIGH BAY LIGHTING FIXTURE TO BE REMOVED. EXISTING CIRCUIT TO BE REMOVED BACK TO PANEL. EXISTING RACEWAYS AND BREAKER TO REMAIN AND BE REUSED WITH NEW CIRCUIT. EXISTING SWITCHES ARE TO BE REMOVED AND RELOCATED WITH NEW THREE-WAY SWITCHING LOCATED IN NEW WALLS. SEE SHEET E201.
- ③ EXISTING SECURITY CAMERA AND POLE-MOUNTED LIGHTING FIXTURES TO BE RELOCATED. EXISTING CIRCUIT TO BE REUSED. EXTEND EXISTING CIRCUIT AS NEEDED TO RECONNECT EXISTING EQUIPMENT AT NEW LOCATION.
- ④ REMOVE EXISTING LIGHT FIXTURE AND CIRCUIT BACK TO PANEL. EXISTING BREAKER IN PANEL 2F TO REMAIN TO BE REUSED TO FEED NEW EXTERIOR LIGHTING CIRCUIT. SEE SHEET E201. COVER ANY UNUSED JUNCTION BOXES IN EXISTING CMU WALL WITH BLANK COVER PLATE.
- ⑤ EXISTING FAN RECEPTACLES, MOUNTED TO UNDERSIDE OF EXISTING ROOF STRUCTURE, NO LONGER NEEDED. REMOVE ALL DEVICES, ENTIRE CIRCUIT, AND ALL CONDUIT BACK TO PANEL 2F. SEE NEW WORK ON SHEET E201.
- ⑥ EXISTING ONE-WAY EXTERIOR INTERCOM SPEAKER TO BE REMOVED AND RETURNED TO OWNER.
- ⑦ COLUMN-MOUNTED FAN TO BE REMOVED AND RETURNED TO OWNER.
- ⑧ EXISTING PTAC TO BE REMOVED. EC TO REMOVE DEVICE & CIRCUIT/RACEWAY BACK TO PANEL. LONGER NEEDED. REMOVE ALL DEVICES, ENTIRE CIRCUIT, AND ALL CONDUIT BACK TO PANEL.



ARCHITECTS

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850.387.1671
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PERMIT SET

PLANS FOR
**WALLER ELEMENTARY SCHOOL
PAVILION ENCLOSURE**

REVISIONS:

No.	Description	Date

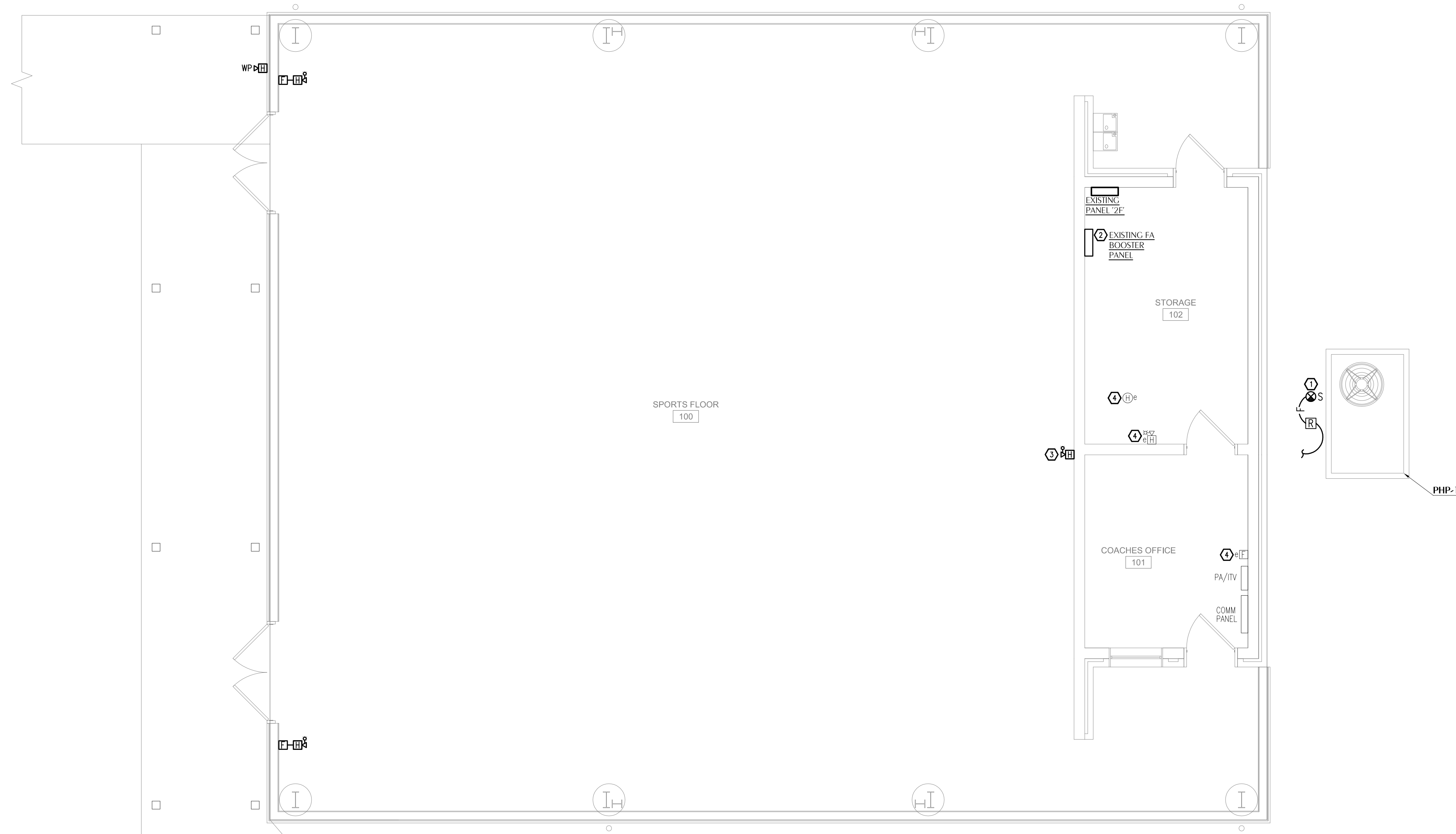
ELECTRICAL DEMO PLAN

Florida CA Number: 27625
Anthony Clarke, P.E.
Florida License Number: 57419
850.532.3447
Project Number: 2024-071
Checked By: ALD
Drawn By: EJK

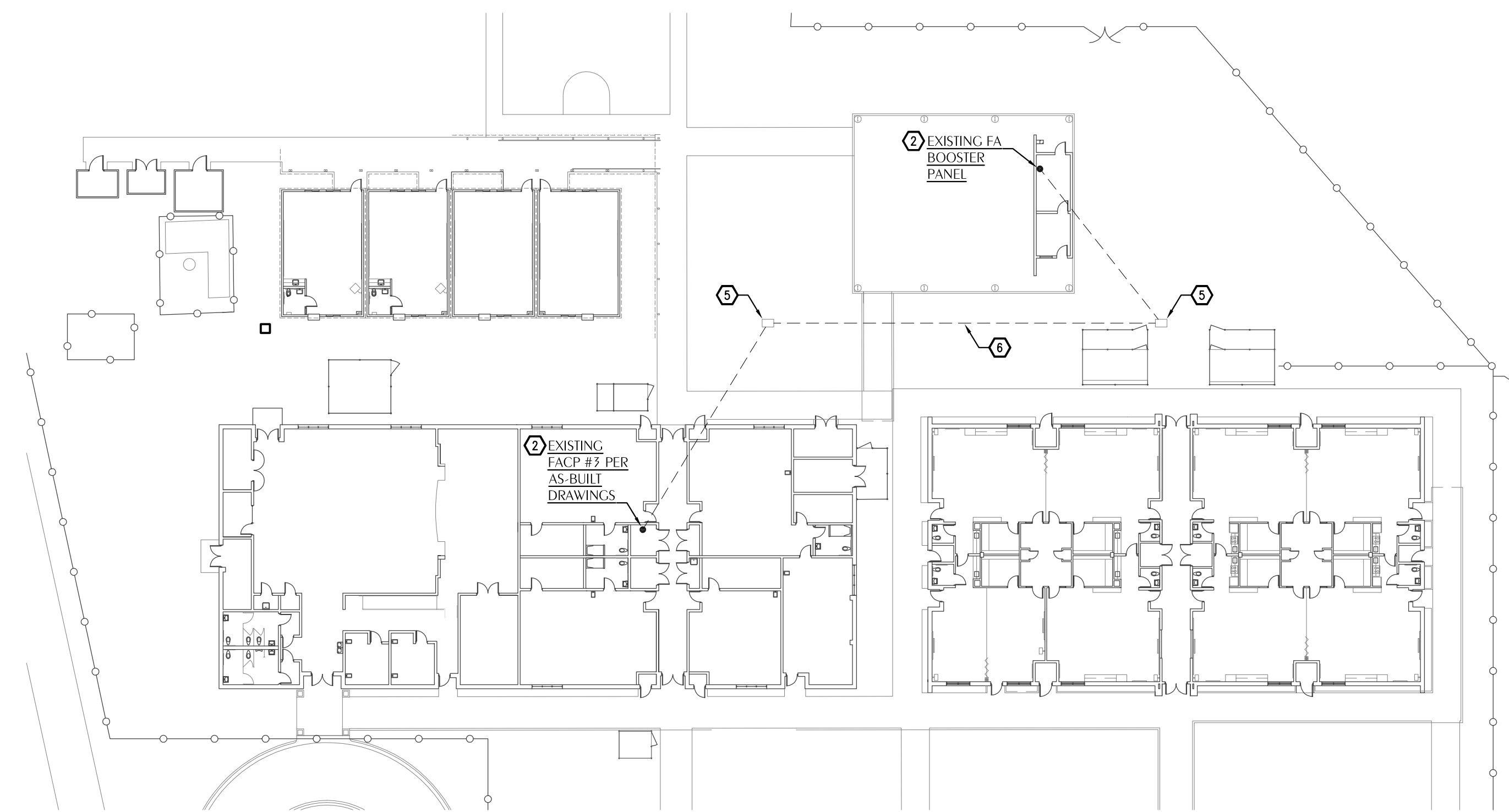
4452 Orion Street Marietta, Florida 32446
311 N. College St. Office 1018 Auburn, AL 36830

PROJECT NUMBER **24097**
DATED **12.13.2024**

E101



1 FIRE ALARM SYSTEM PLAN
E401 SCALE: 1/4" = 1'-0"



2 FIRE ALARM SITE PLAN
E401 SCALE: 1" = 30'

GENERAL NOTE(S)

1. PROVIDE WIRE GUARDS FOR ALL NEW FIRE ALARM DEVICES AND PANELS IN SPORTS FLOOR AREA AND FOR DEVICES MOUNTED ON BUILDING EXTERIOR.
2. ALL FIRE ALARM CABLING IS TO BE FULLY ROUTED IN CONDUIT.

SHEET NOTES

- ① DUCT SMOKE DETECTOR FOR HVAC UNIT AND RELAY FOR CONNECTION TO FIRE ALARM SYSTEM TO BE FURNISHED BY FIRE ALARM CONTRACTOR. DETECTOR TO BE INSTALLED BY MECHANICAL CONTRACTOR AND CONNECTED TO EXISTING FIRE ALARM SYSTEM BY GC FIRE ALARM SUBCONTRACTOR. NOTE: DUCT DETECTOR SHALL BE SET TO INITIATE SUPERVISORY SIGNAL IN FIRE ALARM CONTROL PANEL.
- ② EXISTING FIRE ALARM BOOSTER PANEL TO REMAIN. NOTE: CAMPUS FIRE ALARM SYSTEM CONSISTS OF THREE EDWARDS EST-3 FIRE ALARM CONTROL PANELS INTERCONNECTED BY FIBER OPTIC CABLING. ACCORDING TO AS-BUILT DRAWINGS, FAC P #7, IN ROOM 006 OF BUILDING 5, IS THE NEAREST CONTROL PANEL TO THE PAVILION. SEE FIRE ALARM SITE PLAN THIS SHEET. GC FIRE ALARM SUBCONTRACTOR TO FIELD-VERIFY SYSTEM PRIOR TO COMPLETING ANY WORK.
- ③ REPLACE FIRE ALARM HORN STROBE WITH NEW DEVICE IN EXISTING LOCATION.
- ④ EXISTING FIRE ALARM DEVICE TO REMAIN.
- ⑤ EXISTING 1" X 24" FIRE ALARM PULL-BOX, PER AS-BUILT DRAWINGS.
- ⑥ EXISTING UNDERGROUND FIRE ALARM CONDUIT PATH, PER AS-BUILT DRAWINGS.



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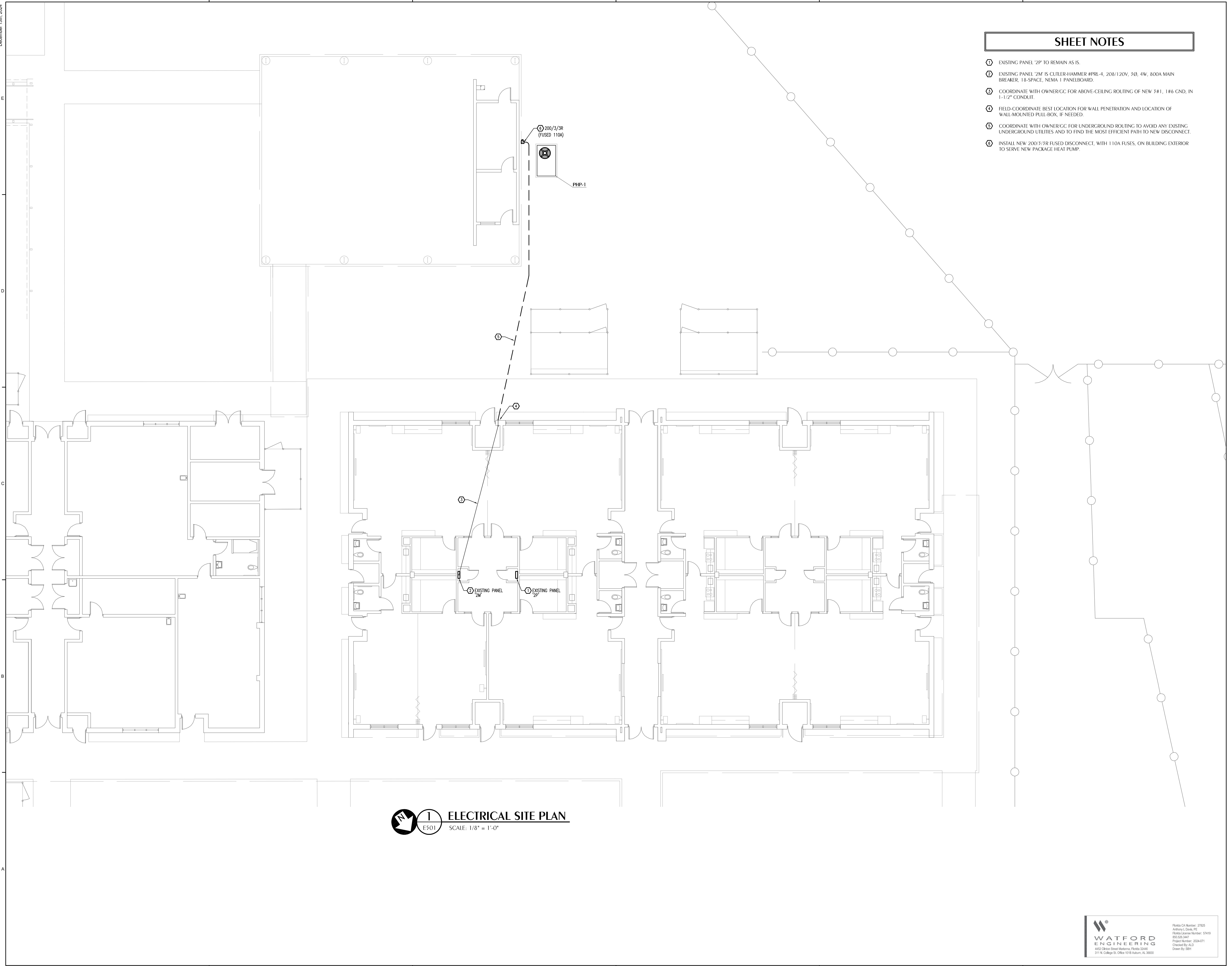
REVISIONS:

No.	Description	Date

**FIRE ALARM
SYSTEM
PLAN**

PROJECT NUMBER **24097**
DATED **12.13.2024**





ELECTRICAL SITE PLAN
E501 SCALE: 1/8" = 1'-0"

SHEET NOTES

- ① EXISTING PANEL '2P' TO REMAIN AS IS.
- ② EXISTING PANEL '2M' IS CUTLER-HAMMER #PRL-4, 208/120V, 3Ø, 4W, 800A MAIN BREAKER, 18-SPACE, NEMA 1 PANELBOARD.
- ③ COORDINATE WITH OWNER/GC FOR ABOVE-CEILING ROUTING OF NEW 3#1, 1#6 GND. IN 1-1/2" CONDUIT.
- ④ FIELD-COORDINATE BEST LOCATION FOR WALL PENETRATION AND LOCATION OF WALL-MOUNTED PULL-BOX, IF NEEDED.
- ⑤ COORDINATE WITH OWNER/GC FOR UNDERGROUND ROUTING TO AVOID ANY EXISTING UNDERGROUND UTILITIES AND TO FIND THE MOST EFFICIENT PATH TO NEW DISCONNECT.
- ⑥ INSTALL NEW 200/3/3R FUSED DISCONNECT, WITH 110A FUSES, ON BUILDING EXTERIOR TO SERVE NEW PACKAGE HEAT PUMP.



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PLANS FOR
**WALLER ELEMENTARY SCHOOL
PAVILION ENCLOSURE**

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ELECTRICAL SITE PLAN

WATFORD
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4452 Clinton Street Marietta, Florida 32446
311 N. College St. Office 1018 Auburn, AL 36830

Florida CA Number: 27825
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Checked By: ALD
Drawn By: SBR

PROJECT NUMBER **24097**
DATED **12.13.2024**

E501