

A NEW FACILITY FOR

K-5 ALE at Tillery

ROGERS, ARKANSAS

Issue Date: 12/16/2024

Revision Date: 01/13/2025

Project No.: 2422

STRUCTURAL ENGINEER:

TATUM-SMITH-WELCHER ENGINEERS
3100 S MARKET ST
SUITE 202
ROGERS, AR 72758

MECHANICAL / ELECTRICAL ENGINEER:

HSA ENGINEERING
7405 ELLIS ST
FORT SMITH, AR 72916

Drawing Index

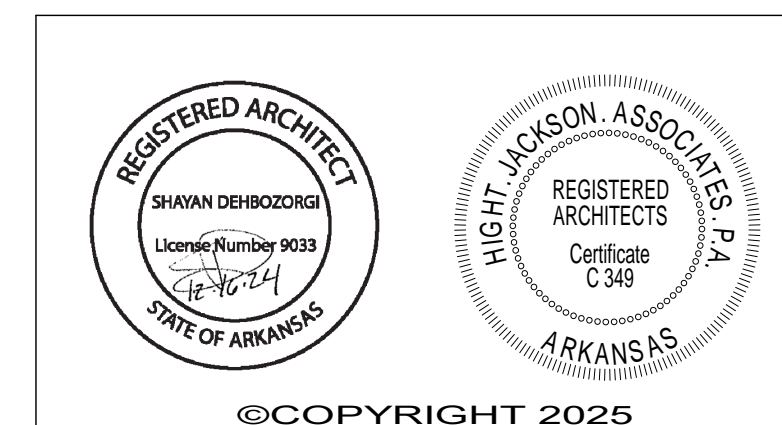
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Hight Jackson

ASSOCIATES

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A QUALITY CONTROL CHECK, INCLUDING THE APPROPRIATE COORDINATION AMONG DISCIPLINES, HAS BEEN MADE ON THIS PROJECT'S DOCUMENTS, AND CORRECTIONS RELATED TO THIS CHECK HAVE BEEN MADE. THE UNDERSIGNED PRINCIPAL/OWNER STATES THAT THESE PLANS AND SPECIFICATIONS AS SUBMITTED FOR REVIEW ARE, TO THE BEST OF HIS OR HER KNOWLEDGE AND ABILITY, COMPLETE AND READY FOR REVIEW

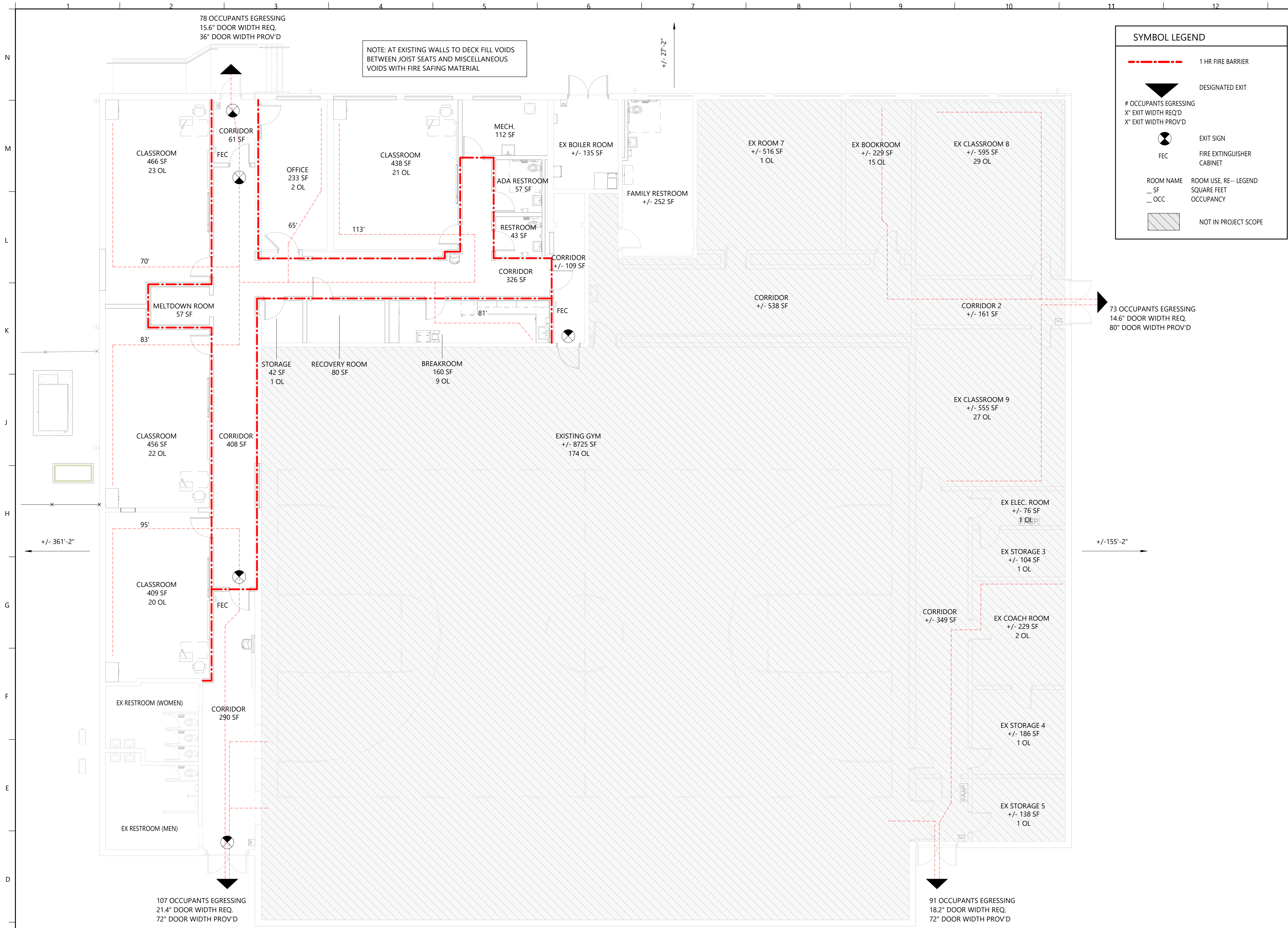


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NOTE: AT EXISTING WALLS TO DECK FILL VOIDS BETWEEN JOIST SEATS AND MISCELLANEOUS VOIDS WITH FIRE SAFING MATERIAL

SYMBOL LEGEND	
	1 HR FIRE BARRIER
	DESIGNATED EXIT
	# OCCUPANTS EGRESS "X" EXIT WIDTH REQ'D "X" EXIT WIDTH PROV'D
	EXIT SIGN
	FIRE EXTINGUISHER CABINET
	ROOM NAME
	ROOM USE, RE-LEGEND SQUARE FEET
	OCCUPANCY
	NOT IN PROJECT SCOPE

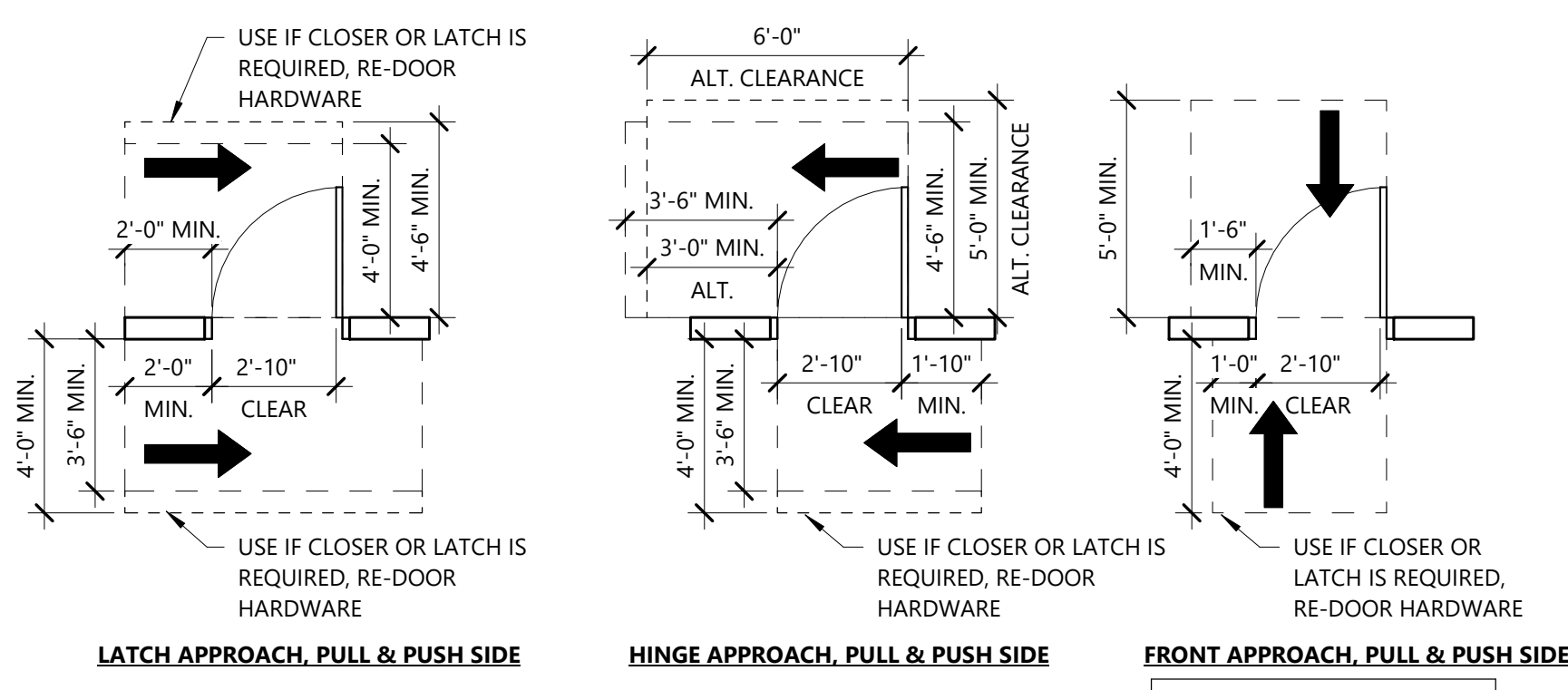
TYPE OF CONSTRUCTION: IIB EDUCATIONAL
 FACILITY NAME: K-5 ALE AT FRANK TILLERY ELEMENTARY SCHOOL
 FACILITY LOCATION:
 109 S. 6TH ST.
 ROGERS, AR 72756
 COUNTY: BENTON
 LOCAL FIRE DEPARTMENT:
 ROGERS FIRE DEPARTMENT
 WATER SUPPLY:
 ROGERS WATER UTILITIES
 LOCAL BUILDING INSPECTION DEPARTMENT:
 CITY OF ROGERS RISK REDUCTION
 APPLICABLE CODES AND REGULATIONS:
 2021 ARKANSAS FIRE PREVENTION CODE VOL 1 (2021 IFC w/ AR AMENDMENTS)
 2021 ARKANSAS FIRE PREVENTION CODE VOL 2 (2021 IBC w/ AR AMENDMENTS)
 2018 ARKANSAS STATE PLUMBING CODE (IPC)
 2021 ARKANSAS STATE MECHANICAL CODE (IMC)
 2020 NATIONAL ELECTRIC CODE
 2018 ARKANSAS STATE FUEL GAS CODE
 2014 ARKANSAS ENERGY CODE
 2017 ANSI A117.1
 2021 EXISTING BUILDING CODE
 ARCHITECT CONTACT
 HIGHT JACKSON ASSOCIATES
 MICHELLE McCLAFLIN
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 ROGERS, AR 72758
 PHONE- (479)-464-4965
 FAX- (479)-464-8324
 OWNER CONTACT:
 ROGERS PUBLIC SCHOOLS
 DAN CALEY AND CHARLES LEE
 DAVID CAULDWELL SCHOOL SERVICES COMPLEX
 2815 S. 1st ST.
 ROGERS, AR 72758
 PHONE- (479)-636-5421
 CONSTRUCTION:
 OCCUPANCY TYPE- E (EDUCATIONAL)
 OCCUPANT LOAD OF ALL SPACES- +/- 349 OCC
 ACTUAL OCCUPANCY- 260 STUDENTS
 14 STAFFS
 CONSTRUCTION TYPE- IIB
 BASIC ALLOWABLE AREA PER STORY- 14,500
 NO FIRE SUPPRESSION SYSTEM
 FRONTAGE INCREASE PER BUILDING- +9135
 ALLOWABLE AREA- 23,635
 ALLOWABLE HEIGHT- 55'-0"
 ACTUAL HEIGHT- +/- 31'-0"
 ALLOWABLE STORIES- 2
 ACTUAL STORIES- 1
 ACTUAL SQUARE FOOTAGE - +/- 4,223 (REMODEL)
 COMBINE ACTUAL TOTAL SQUARE FOOTAGE - +/- 18,626
 HORIZONTAL SEPARATION TO PROPERTY LINE-
 +/- 155'-2" TO EAST PL
 +/- 357'-4" TO SOUTH PL
 +/- 361'-2" TO WEST PL
 +/- 27'-2" TO NORTH PL
 STRUCTURAL FIRE PROTECTION
 STRUCTURAL FRAME- 0 HR.
 EXTERIOR BEARING WALLS- 0 HR.
 INTERIOR BEARING WALLS- 0 HR.
 EXTERIOR NON-BEARING WALLS- 0 HR.
 INTERIOR NON-BEARING WALLS- 0 HR.
 FLOORS- 0 HR.
 ROOF- 0 HR.
 ACTIVE FIRE SAFETY FEATURES:
 FIRE ALARM SYSTEM- BATTERY BACK UP
 SMOKE DETECTION THROUGHOUT- BATTERY BACKUP
 AUTOMATIC AIR HANDLING EQUIPMENT SHUTDOWN
 EXIT LIGHTS- BATTERY BACK UP
 EMERGENCY LIGHTING- BATTERY BACK UP
 REMODEL CONSTRUCTION
 LEVEL 2 ALTERATION
 REMODEL OCCURS TO 23% OF EXISTING BUILDING



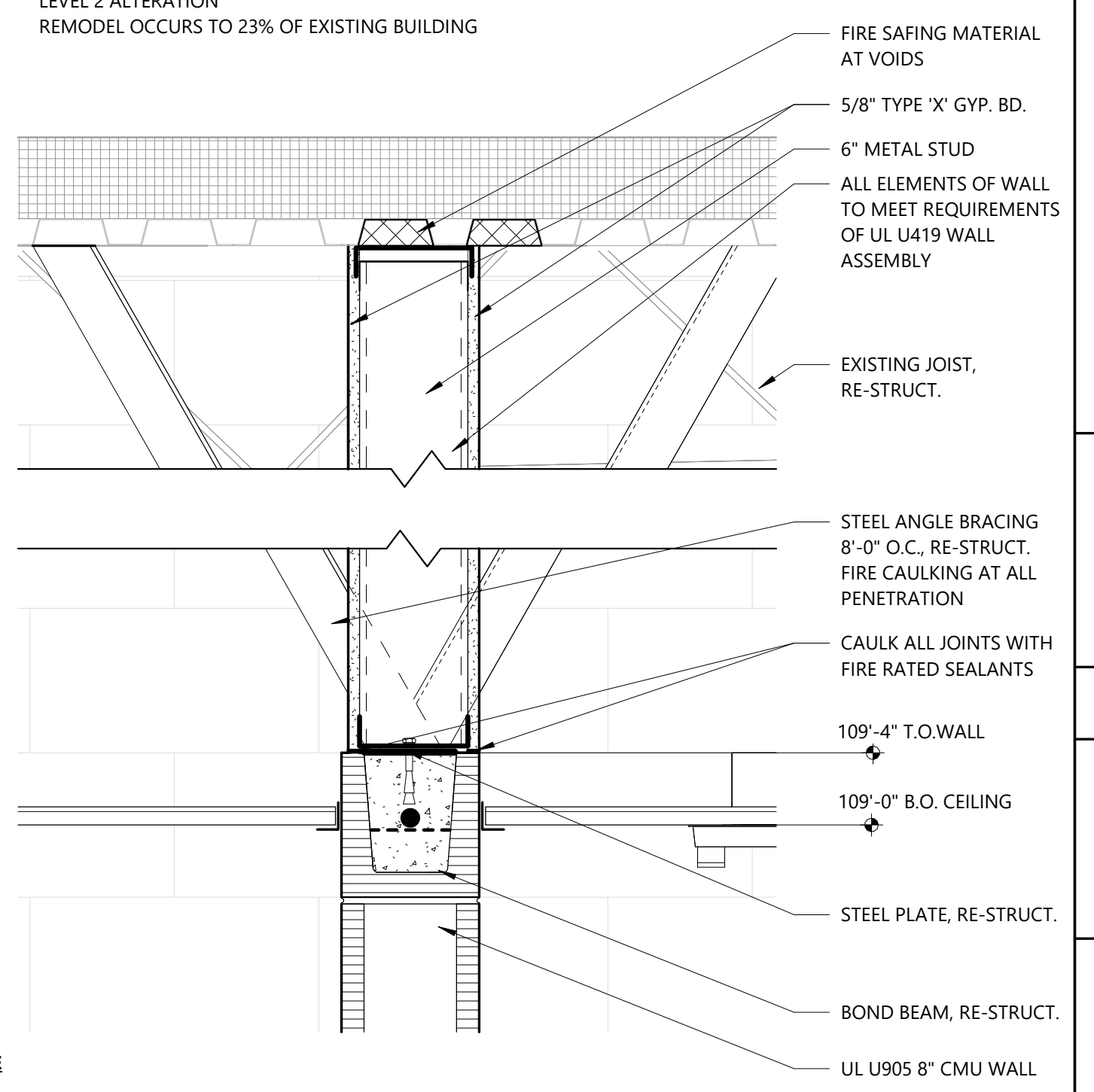
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C1 Floor Code and Overall Plan
 1/8" = 1'-0"

FIRE STOPPING ASSEMBLIES FOR PENETRATIONS OF FIRE WALLS AND BARRIERS			
CONCRETE BLOCK WALL ASSEMBLIES	CONCRETE BLOCK WALL ASSEMBLIES	GYPSUM WALL ASSEMBLIES	GYPSUM WALL ASSEMBLIES
METAL PIPE THROUGH 1 HR CONCRETE BLOCK WALL ASSEMBLY	UL SYSTEM W-J-1067	METAL PIPE PENETRATION THROUGH 1 HR GYPSUM WALL ASSEMBLY	UL SYSTEM W-L-1054
MULTIPLE METAL PIPES THROUGH CONCRETE BLOCK WALL ASSEMBLY	UL SYSTEM W-J-1116 OR W-J-1191	METAL PIPE PENETRATION THROUGH 1 HR GYPSUM SHAFT WALL ASSEMBLY	UL SYSTEM W-L-1206
INSULATED METAL PIPE THROUGH 1 HR CONCRETE BLOCK WALL ASSEMBLY	UL SYSTEM W-J-5041 OR W-J-5042	MULTIPLE METAL PIPES THROUGH 1 HR GYPSUM WALL ASSEMBLY	UL SYSTEM W-L-1408
6" MAX. DIAMETER PLASTIC (PVC) PIPE THROUGH CONCRETE FLOOR OR BLOCK WALL	UL SYSTEM W-J-2205	PLASTIC PIPE THROUGH 1 HR GYPSUM WALL ASSEMBLY	UL SYSTEM W-L-2406
SHEET METAL DUCT THROUGH BLOCK WALL ASSEMBLY	UL SYSTEM W-J-7022 OR W-J-7109	CABLE BUNDLE THROUGH 1 HR GYPSUM WALL ASSEMBLY	UL SYSTEM W-L-3213 OR W-L-3272
(REFER TO MECHANICAL DRAWINGS FOR FIRE DAMPER LOCATIONS AND DETAIL)		INSULATED METAL PIPE THROUGH 1 HR GYPSUM WALL ASSEMBLY	UL SYSTEM W-L-5029
		INSULATED PLASTIC PIPE THROUGH 1 HR GYPSUM WALL ASSEMBLY	UL SYSTEM W-L-5225
		SHEET METAL DUCT THROUGH 1 HR GYPSUM WALL ASSEMBLY	UL SYSTEM W-L-7153 OR W-L-7155
		(REFER TO MECHANICAL DRAWINGS FOR FIRE DAMPER LOCATIONS AND DETAIL)	



A8 ADA Door Clearances
 1/4" = 1'-0"



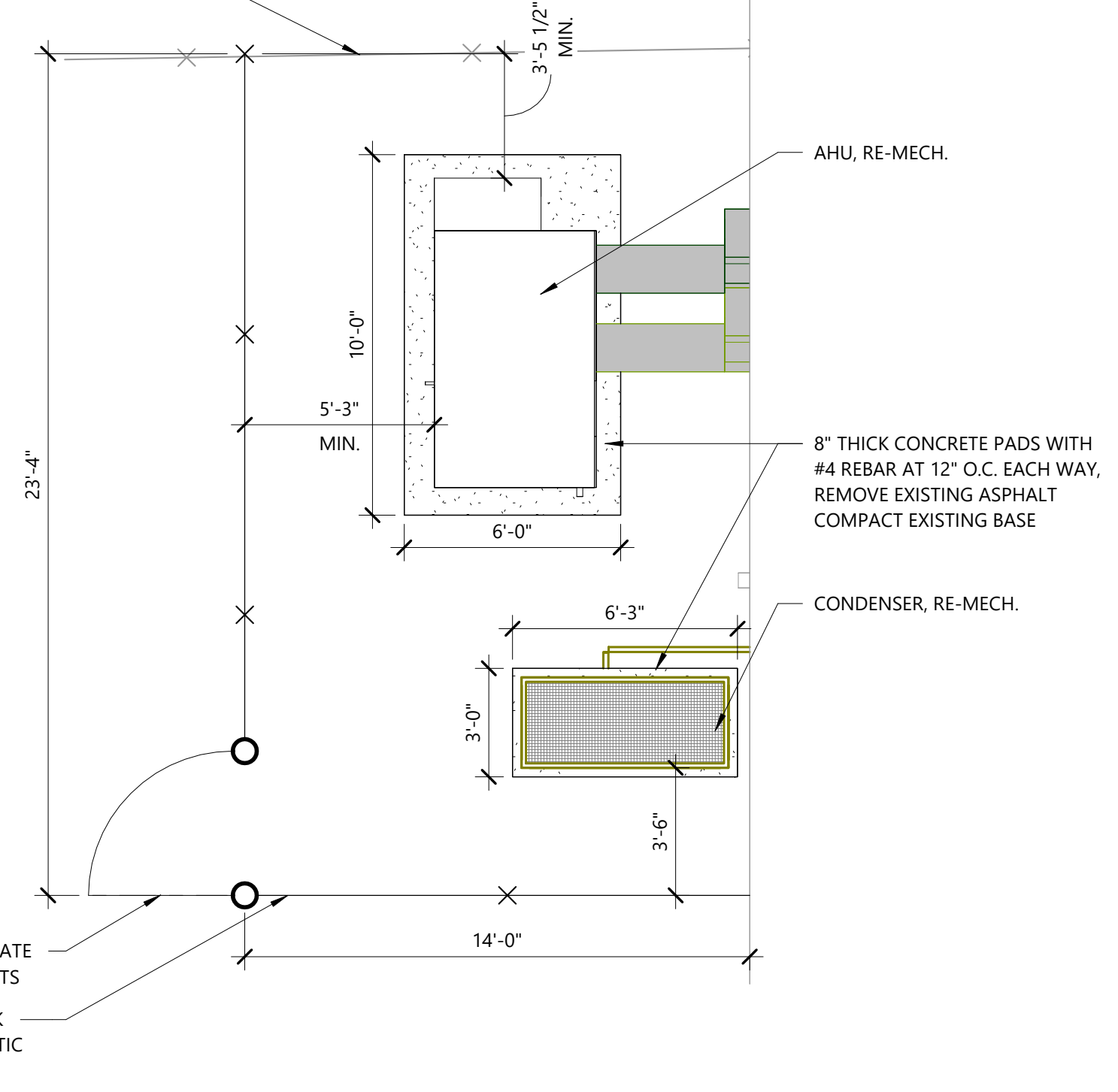
A13 Top of Wall Assembly
 1 1/2" = 1'-0"

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SM
 CHECK BY:
MM
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CODE FOOTPRINT AND
 OVERALL PLAN
 S H E E T
A1.0
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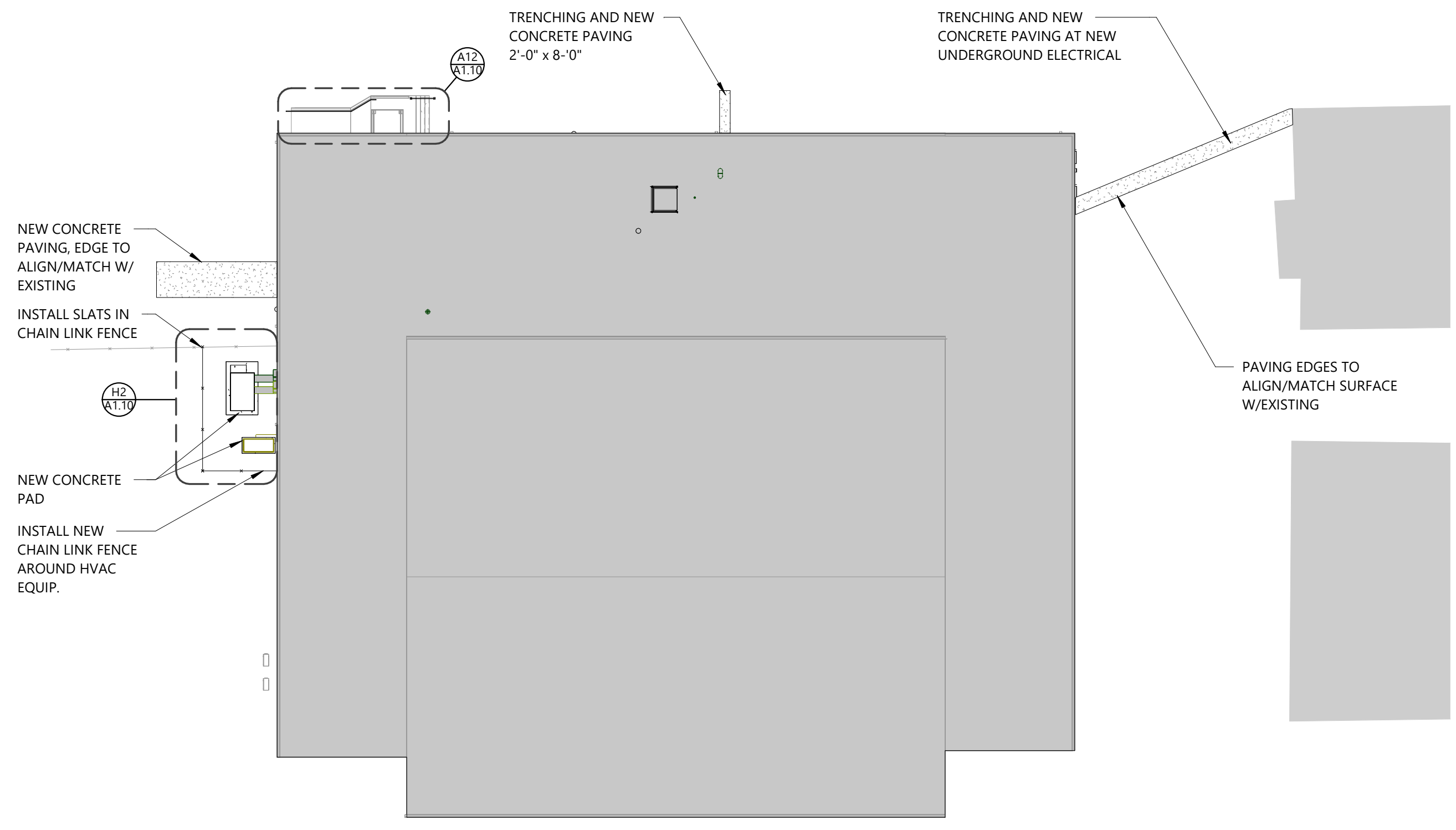
EXISTING CHAIN LINK FENCE WITH NEW PLASTIC SLATS



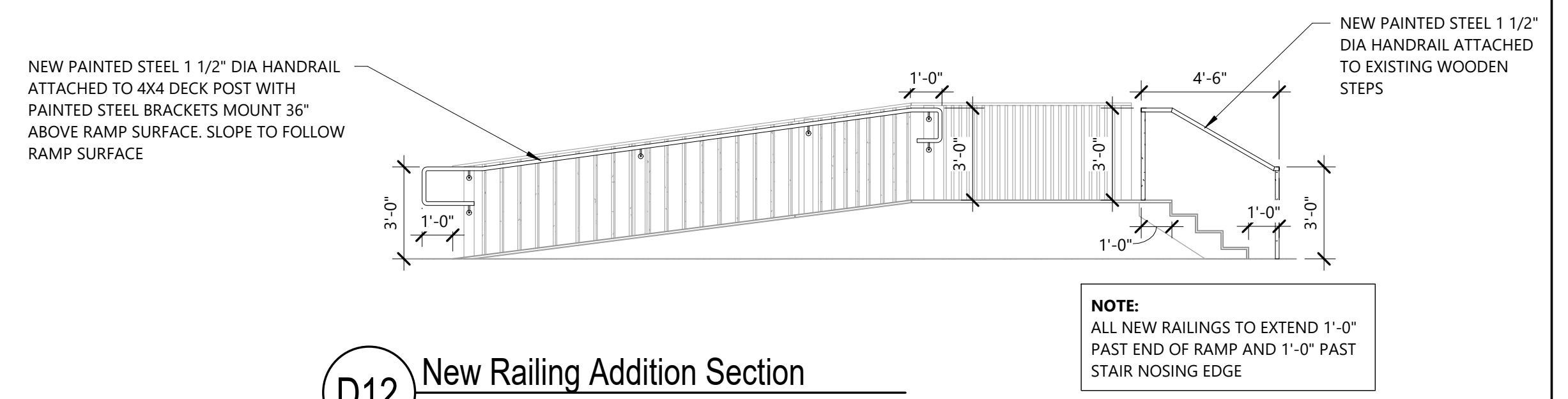
CONCRETE PAVING NOTES

1. CONCRETE PAVING TO BE 3,000 PSI MIN. @ 28 DAYS
2. CONCRETE PAVING THICKNESS TO BE 6" MIN.
3. PROVIDE 6" MIN. COMPACTED GRAVEL SUB-BASE BELOW CONCRETE PAVING
4. PROVIDE EXPANSION JOINTS BETWEEN NEW CONCRETE AND EXISTING ADJACENT SURFACE
5. PROVIDE CONTRACTION JOINTS @ 15'-0" O.C.
6. PROVIDE AIR ENTRAINMENT IN EXT. CONCRETE

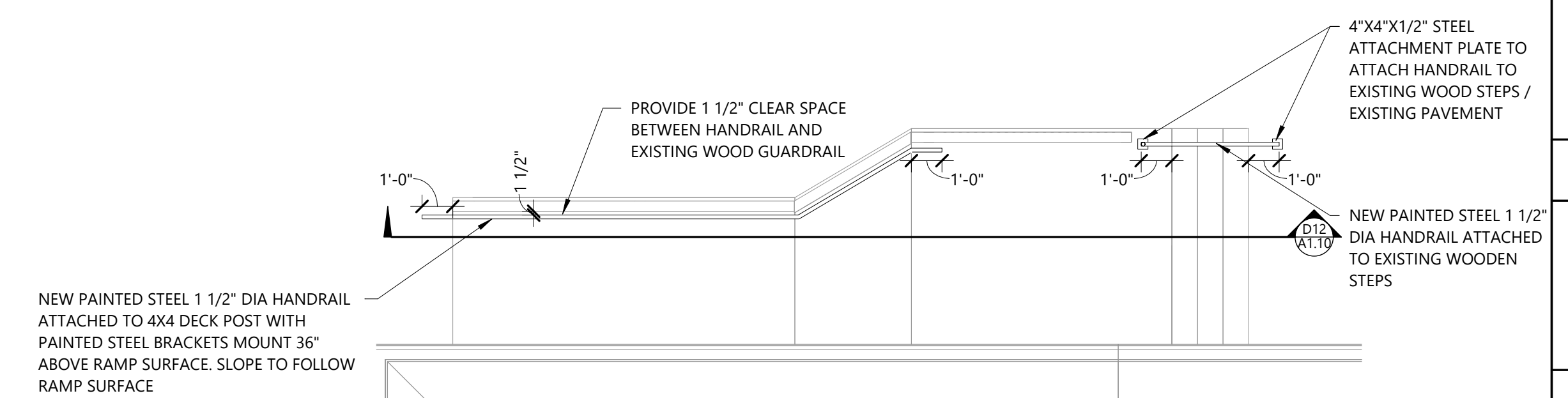
H2 Enlarged Site Plan
1/4" = 1'-0" Ref: A2/ A1.10



A2 Site Plan
1" = 20'-0"



D12 New Railing Addition Section
1/4" = 1'-0" Ref: A12/ A1.10



A12 New Railing Addition Plan
1/4" = 1'-0" Ref: A2/ A1.10



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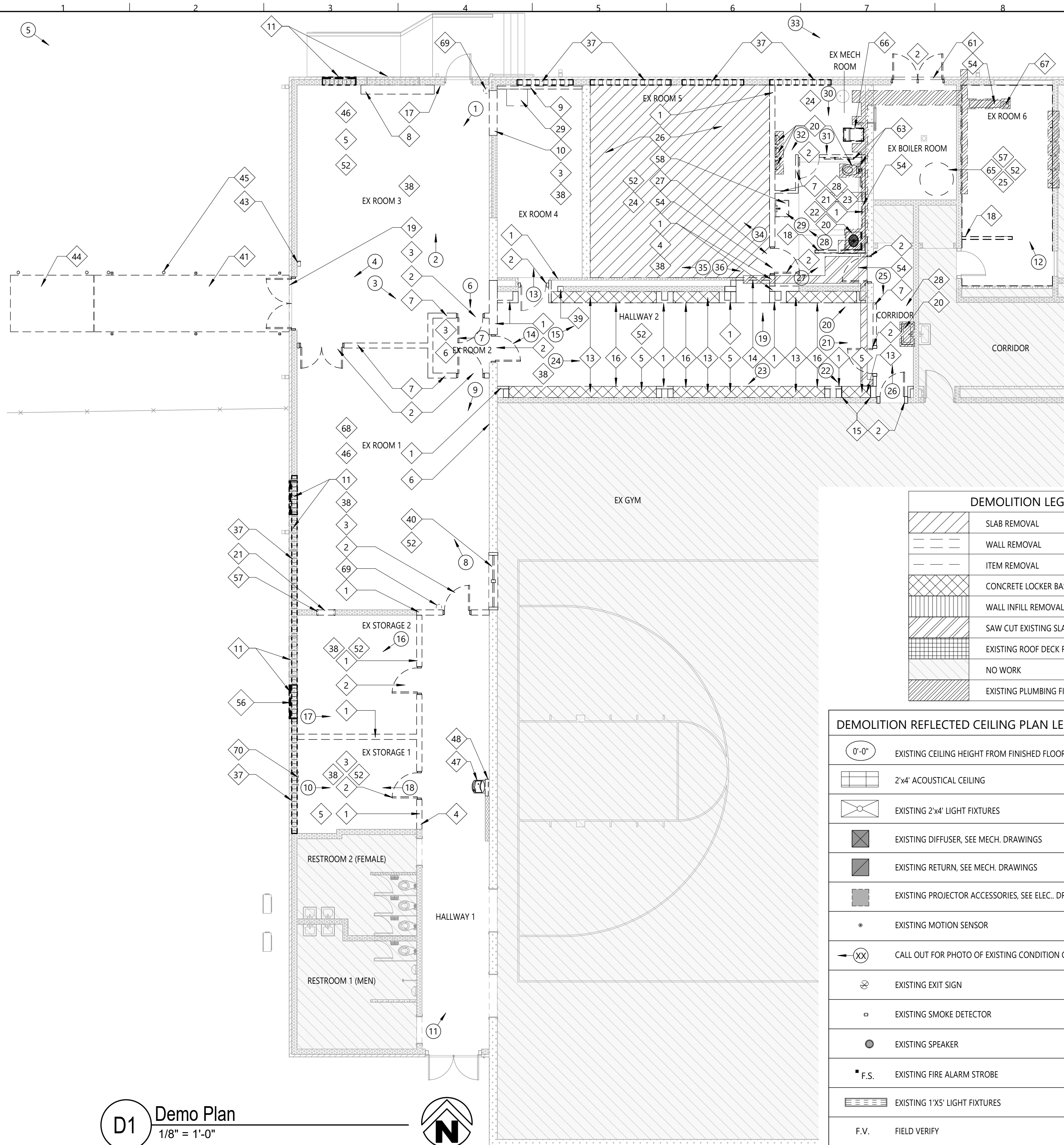
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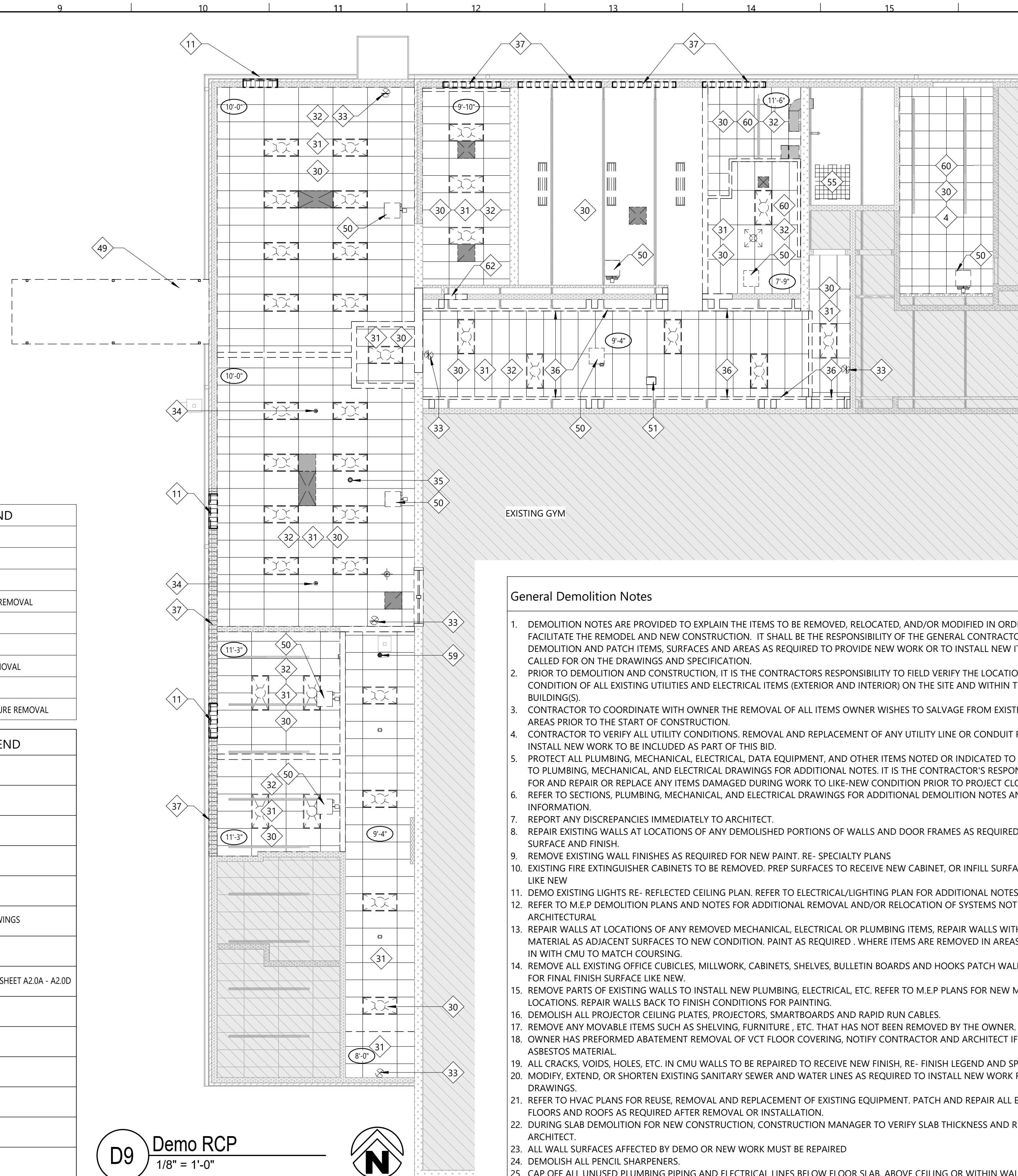
REVISION DATES
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ARCHITECTURAL SITE PLAN
SHEET
A1.10

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D1 Demo Plan
1/8" = 1'-0"



D9 Demo RCP
1/8" = 1'-0"

DEMOLITION LEGEND

[Hatched]	SLAB REMOVAL
[Dashed]	WALL REMOVAL
[Dotted]	ITEM REMOVAL
[Cross-hatched]	CONCRETE LOCKER BASE REMOVAL
[Diagonal lines]	WALL INFILL REMOVAL
[Stippled]	SAW CUT EXISTING SLAB
[Horizontal lines]	EXISTING ROOF DECK REMOVAL
[Vertical lines]	NO WORK
[Diagonal lines]	EXISTING PLUMBING FIXTURE REMOVAL

DEMOLITION REFLECTED CEILING PLAN LEGEND

(9'-0")	EXISTING CEILING HEIGHT FROM FINISHED FLOOR
[Grid]	2'x4' ACOUSTICAL CEILING
[Square]	EXISTING 2'x4' LIGHT FIXTURES
[Circle]	EXISTING DIFFUSER, SEE MECH. DRAWINGS
[Square]	EXISTING RETURN, SEE MECH. DRAWINGS
[Square]	EXISTING PROJECTOR ACCESSORIES, SEE ELEC. DRAWINGS
[Circle]	EXISTING MOTION SENSOR
(XX)	CALL OUT FOR PHOTO OF EXISTING CONDITION ON SHEET A2.0A - A2.0D
[Square]	EXISTING EXIT SIGN
[Circle]	EXISTING SMOKE DETECTOR
[Circle]	EXISTING SPEAKER
[Square]	F.S. EXISTING FIRE ALARM STROBE
[Grid]	EXISTING 1'x5' LIGHT FIXTURES
F.V.	FIELD VERIFY

General Demolition Notes

- DEMOLITION NOTES ARE PROVIDED TO EXPLAIN THE ITEMS TO BE REMOVED, RELOCATED, AND/OR MODIFIED IN ORDER TO FACILITATE THE REMODEL AND NEW CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE DEMOLITION AND PATCH ITEMS, SURFACES AND AREAS AS REQUIRED TO PROVIDE NEW WORK OR TO INSTALL NEW ITEMS WHERE CALLED FOR ON THE DRAWINGS AND SPECIFICATION.
- PRIOR TO DEMOLITION AND CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND CONDITION OF ALL EXISTING UTILITIES AND ELECTRICAL ITEMS (EXTERIOR AND INTERIOR) ON THE SITE AND WITHIN THE EXISTING BUILDING(S).
- CONTRACTOR TO COORDINATE WITH OWNER THE REMOVAL OF ALL ITEMS OWNER WISHES TO SALVAGE FROM EXISTING REMODEL AREAS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR TO VERIFY ALL UTILITY CONDITIONS. REMOVAL AND REPLACEMENT OF ANY UTILITY LINE OR CONDUIT REQUIRED TO INSTALL NEW WORK TO BE INCLUDED AS PART OF THIS BID.
- PROTECT ALL PLUMBING, MECHANICAL, ELECTRICAL, DATA EQUIPMENT, AND OTHER ITEMS NOTED OR INDICATED TO REMAIN. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR AND REPAIR OR REPLACE ANY ITEMS DAMAGED DURING WORK TO LIKE-NEW CONDITION PRIOR TO PROJECT CLOSE-OUT. REFER TO SECTIONS, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES AND INFORMATION.
- REPORT ANY DISCREPANCIES IMMEDIATELY TO ARCHITECT.
- REPAIR EXISTING WALLS AT LOCATIONS OF ANY DEMOLISHED PORTIONS OF WALLS AND DOOR FRAMES AS REQUIRED FOR NEW SURFACE AND FINISH.
- REMOVE EXISTING WALL FINISHES AS REQUIRED FOR NEW PAINT. RE- SPECIALTY PLANS
- EXISTING FIRE EXTINGUISHER CABINETS TO BE REMOVED. PREP SURFACES TO RECEIVE NEW CABINET, OR INFILL SURFACES AND FINISH LIKE NEW
- REMOVE EXISTING LIGHTS RE- REFLECTED CEILING PLAN. REFER TO ELECTRICAL/LIGHTING PLAN FOR ADDITIONAL NOTES.
- REFER TO M.E.P DEMOLITION PLANS AND NOTES FOR ADDITIONAL REMOVAL AND/OR RELOCATION OF SYSTEMS NOT NOTED IN ARCHITECTURAL
- REPAIR WALLS AT LOCATIONS OF ANY REMOVED MECHANICAL, ELECTRICAL OR PLUMBING ITEMS, REPAIR WALLS WITH SAME MATERIAL AS ADJACENT SURFACES TO NEW CONDITION. PAINT AS REQUIRED. WHERE ITEMS ARE REMOVED IN AREAS OF CMU, FILL IN WITH CMU TO MATCH COURSING.
- REMOVE ALL EXISTING OFFICE CUBICLES, MILLWORK, CABINETS, SHELVES, BULLETIN BOARDS AND HOOKS PATCH WALLS AND REPAIR FOR FINAL FINISH SURFACE LIKE NEW.
- REMOVE PARTS OF EXISTING WALLS TO INSTALL NEW PLUMBING, ELECTRICAL, ETC. REFER TO M.E.P PLANS FOR NEW M.E.P LOCATIONS. REPAIR WALLS BACK TO FINISH CONDITIONS FOR PAINTING.
- DEMOLISH ALL PROJECTOR CEILING PLATES, PROJECTORS, SMARTBOARDS AND RAPID RUN CABLES.
- REMOVE ANY MOVABLE ITEMS SUCH AS SHELVING, FURNITURE, ETC. THAT HAS NOT BEEN REMOVED BY THE OWNER.
- OWNER HAS PERFORMED ABATEMENT REMOVAL OF VCT FLOOR COVERING, NOTIFY CONTRACTOR AND ARCHITECT IF YOU SUSPECT ASBESTOS MATERIAL.
- ALL CRACKS, VOIDS, HOLES, ETC. IN CMU WALLS TO BE REPAIRED TO RECEIVE NEW FINISH. RE- FINISH LEGEND AND SPECIALTY PLAN
- MODIFY, EXTEND, OR SHORTEN EXISTING SANITARY SEWER AND WATER LINES AS REQUIRED TO INSTALL NEW WORK RE-PLUMBING DRAWINGS.
- REFER TO HVAC PLANS FOR REUSE, REMOVAL AND REPLACEMENT OF EXISTING EQUIPMENT. PATCH AND REPAIR ALL EXISTING WALLS, FLOORS AND ROOFS AS REQUIRED AFTER REMOVAL OR INSTALLATION.
- DURING SLAB DEMOLITION FOR NEW CONSTRUCTION, CONSTRUCTION MANAGER TO VERIFY SLAB THICKNESS AND REPORT TO ARCHITECT.
- ALL WALL SURFACES AFFECTED BY DEMO OR NEW WORK MUST BE REPAIRED
- DEMOLISH ALL PENCIL SHARPENERS.
- CAP OFF ALL UNUSED PLUMBING PIPING AND ELECTRICAL LINES BELOW FLOOR SLAB, ABOVE CEILING OR WITHIN WALLS AS ALLOWED BY CODE. PATCH OR INFILL AREAS AS REQUIRED. RE-MEP
- DEMOLISH ALL EXIT LIGHTS.
- DEMOLISH ALL UNUSED WALL LOUVERS AT EXTERIOR BRICK TOOTH IN NEW BRICK. TEXTURE AND COURSING TO MATCH EXISTING. AT INTERIOR BRICK AND CMU TOOTH IN NEW MASONRY TO MATCH ADJACENT CONDITIONS.
- DEMOLISH ALL UNUSED EQUIPMENT AND SYSTEMS SUCH AS CORRIDOR BELLS, INTERCOM STATIONS, OCCUPANCY SENSORS, FIRE ALARM SYSTEM ETC. NO LONGER IN USE AFTER IMPLEMENTATION OF NEW SYSTEMS. PATCH ALL WALLS TO MATCH ADJACENT WALL SURFACE AFTER REMOVAL.
- REMOVE ALL PROJECTION SCREENS, ROLL-UP WALL MOUNTED MAPS AND PULL DOWNS.
- REMOVE ALL CABLING EXCEPT SECURITY CAMERA CABLING. DO NOT LEAVE UNUSED CABLING.
- REMOVE ALL OLD ANCHORS, BRACKET, SCREENS ETC. FROM EXISTING WALLS. PATCH ANY REMAINING HOLES TO CREATE LIKE NEW WALL FOR NEW PAINT APPLICATION.
- ALL EXPOSED CAPPED PLUMBING LINES TO BE TERMINATED WITHIN WALL OR OVERHEAD, REPAIR WALL TO CREATE LIKE NEW WALL FOR NEW FINISHES/PAINT APPLICATION.
- DEMOLISH EXISTING RESTROOM MIRRORS
- DEMOLISH ALL EXISTING RUBBER BASE
- ANY INTERRUPTION IN SERVICES MUST BE COORDINATED WITH OWNER PRIOR TO SHUT OFF.
- EXISTING FIRE EXTINGUISHER CABINETS TO BE REMOVED. PREP WALL AT SAME LOCATION TO INSTALL NEW FIRE EXTINGUISHER CABINET WITH HANDLE NO HIGHER THAN 48". FIRE EXTINGUISHER MAYBE RE- INSTALLED ONCE TESTED AND TAGGED.
- DEMOLISH ALL SURFACE MOUNT CONDUIT, JUNCTION BOXES AND WIREMOLD. REPAIR WALLS FROM REMOVAL TO LIKE NEW CONDITION. REFER TO ELECTRICAL FOR REPLACEMENT INSTRUCTION.
- REPAIR WALLS TO LIKE NEW CONDITION AT ANY REMOVED SURFACE APPLIED PRODUCTS. REMOVE ANY ADHESIVE OR INCONSISTENT TEXTURE FROM WALL. REPAIR MASONRY JOINTS
- REPAIR WALLS TO LIKE NEW CONDITION FROM ANY REMOVED WALLS OR VENEER. TUCKPOINT AND RE-POINT MASONRY JOINTS TO TOOLED JOINT TO MATCH ADJACENT. REMOVE ANY EXCESS MORTAR OR WIRE TIES FOR SMOOTH WALL CONDITION READY FOR PAINTING.
- DEMOLISH ALL BATT INSULATION ABOVE EXISTING CEILING.
- BEFORE INFILLING EXTERIOR WALL WITH CMU. REMOVE WINDOW GLASS, WINDOW FRAME, METAL STUD, SEALANT, WOOD BLOCKING, SHEATHING AND OTHER ITEMS BETWEEN BRICK AND CMU. PROTECT EXISTING BRICK WALL. REPAIR WALL IF DAMAGED DURING DEMO WORK.
- AT DEMOLISHED EXISTING CEILING, THIS INCLUDES BOTH VISIBLE LOWER AND OLD, AND ORIGINAL CEILING SYSTEM ABOVE
- DEMOLISH ALL LOOSE FURNITURE
- REMOVE EXISTING DOOR FRAME, DOOR LEAVES, HARDWARE AND ANCHORS AND RETURN TO OWNER REFER TO SPECIFICATIONS.

DEMOLITION KEYED NOTES

#	Description
1	DEMO WALL, RE-DEMO PLANS AND FLOOR PLANS FOR EXTENTS.
2	DEMO DOOR AND FRAME
3	DEMO EXISTING FLOORING OR CARPET AND BASE. PREP FOR NEW FLOOR FINISH INSTALL
4	DEMO EMERGENCY LIGHT UNIT
5	DEMO ALL SHELVES, SLATWALL BRACKETS, METAL SLATSTRIP AND REPAIR WALL TO LIKE NEW CONDITION.
6	DEMO ALL SHELVES, BRACKETS AND WOOD BLOCKING ATTACHED TO THE SHELVES
7	DEMO STUD WALL AND BASE. RE-DEMO PLANS AND FLOOR PLANS FOR EXTENTS
8	DEMO EXISTING WOOD LOUVER BOX-OUT AND BASE. PATCH AND REPAIR AS REQUIRED
9	DEMO WALL AND MATERIAL FINISH
10	DEMO WALL FOR NEW DOOR AND FRAME
11	DEMO EXISTING LOUVERS AND INFILL WALL WITH EXISTING WALL TYPE
13	DEMOLISH CONCRETE LOCKER BASE. PREP FLOOR SLAB FOR NEW FINISHES
14	DEMO BOOKSHELF, BLOCKINGS AND BACK BOARD
15	DEMO PLYWOOD AND WOOD BLOCKING
16	DEMO WOOD FRAME AND BLOCKING FURR DOWN/SOFFIT
17	REMOVE AND REINSTALL "IN GOD WE TRUST" CLASSROOM SIGNS FOR REINSTALL.
18	DEMO CMU WALL, TILES AND BASE
19	DEMO EXISTING DOOR, FRAME, GLAZING, AND HARDWARE
20	DEMO PLUMBING FIXTURE. CAP PLUMBING LINES AS REQUIRED IN CONCEALED SPACES. PATCH, PAINT AND REPAIR AS REQUIRED
21	DEMO MIRROR
22	DEMO SOAP DISPENSER, PAPER TOWEL DISPENSER, TOILET TISSUE DISPENSER, SANITARY NAPKIN DISPOSAL
23	DEMO UNDER SINK CABINET
24	REMOVE WOOD SHELVES AND WOOD SUPPORT

DEMOLITION KEYED NOTES

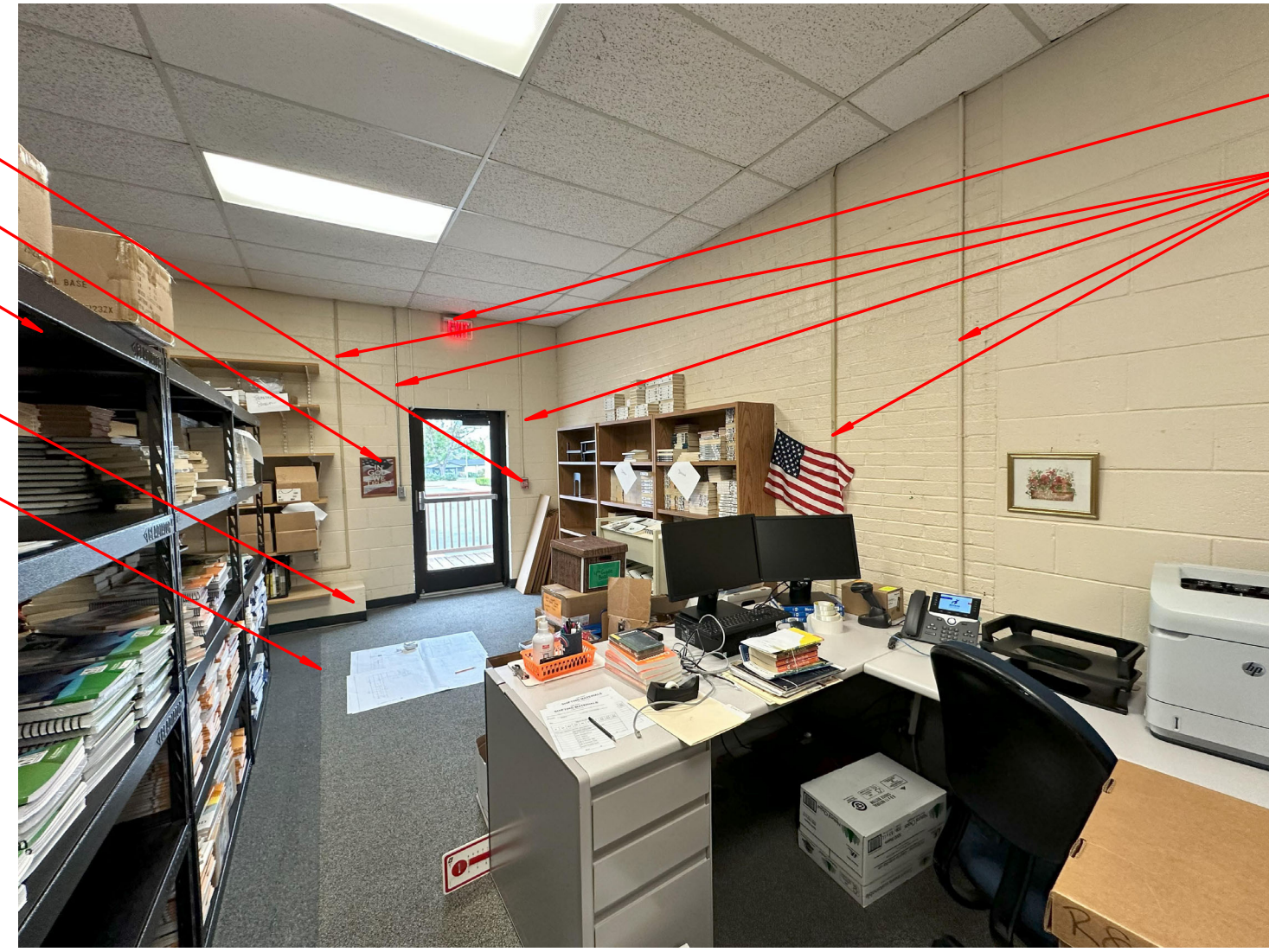
#	Description
25	DEMO WALL CERAMIC TILES
26	SAW CUT AND REMOVE HATCHED PORTION OF EXISTING TOPPING SLAB MAIN FLOOR SLAB BELOW TO REMAIN, SEE-DEMO PLAN
27	DEMO TEMPORARY WOODEN RAMP
28	SAND/BEAD BLAST EPOXY FLOOR TO BE RESURFACED. COORDINATE DEMO WITH EPOXY FLOOR CONTRACTOR, DEMO RUBBER BASE
29	DEMO STEEL PLATE
30	DEMO LIGHT FIXTURES
31	DEMO EXISTING CEILING TILE AND GRID SYSTEM, PREPARE ROOM FOR NEW FINISHES
32	DEMO MECHANICAL DUCTS AND DIFFUSERS, RE-MECH.
33	DEMO EXISTING EXIT SIGNS
34	DEMO EXISTING MOTION SENSOR
35	DEMO EXISTING SPEAKER
36	DEMO HUNG STEEL ANGLE AND SUSPENDED CMU
37	DEMO EXISTING SHEATHING, WALL FINISH, WINDOW, WINDOW FRAME, METAL STUD, SEALANT, WOOD BLOCKING, CMU BULLNOSE
38	DEMO ALL SURFACE MOUNTED CONDUITS, JUNCTION BOXES AND WIRE MOLD. REPAIR WALLS FROM REMOVAL TO LIKE NEW CONDITION. RE-ELECT. FOR NEW LOCATION
39	DEMO PART OF UNEVEN CMU WALL UNTIL FIRST COURSE
40	DEMO DOOR, FRAME, TRANSOM, HARDWARE AND THRESHOLD
41	DEMO EXISTING CONCRETE LOADING DOCK
43	REMOVE EXISTING HYDRAULIC LIFT CONTROL STATION
44	REMOVE HYDRAULIC LIFT PLATFORM, HINGED BRIDGE, ELECTRICAL CONNECTION, CONNECTORS, AND OTHER ITEMS RELATED TO LIFT
45	DEMO EXISTING BOLLARDS

DEMOLITION KEYED NOTES

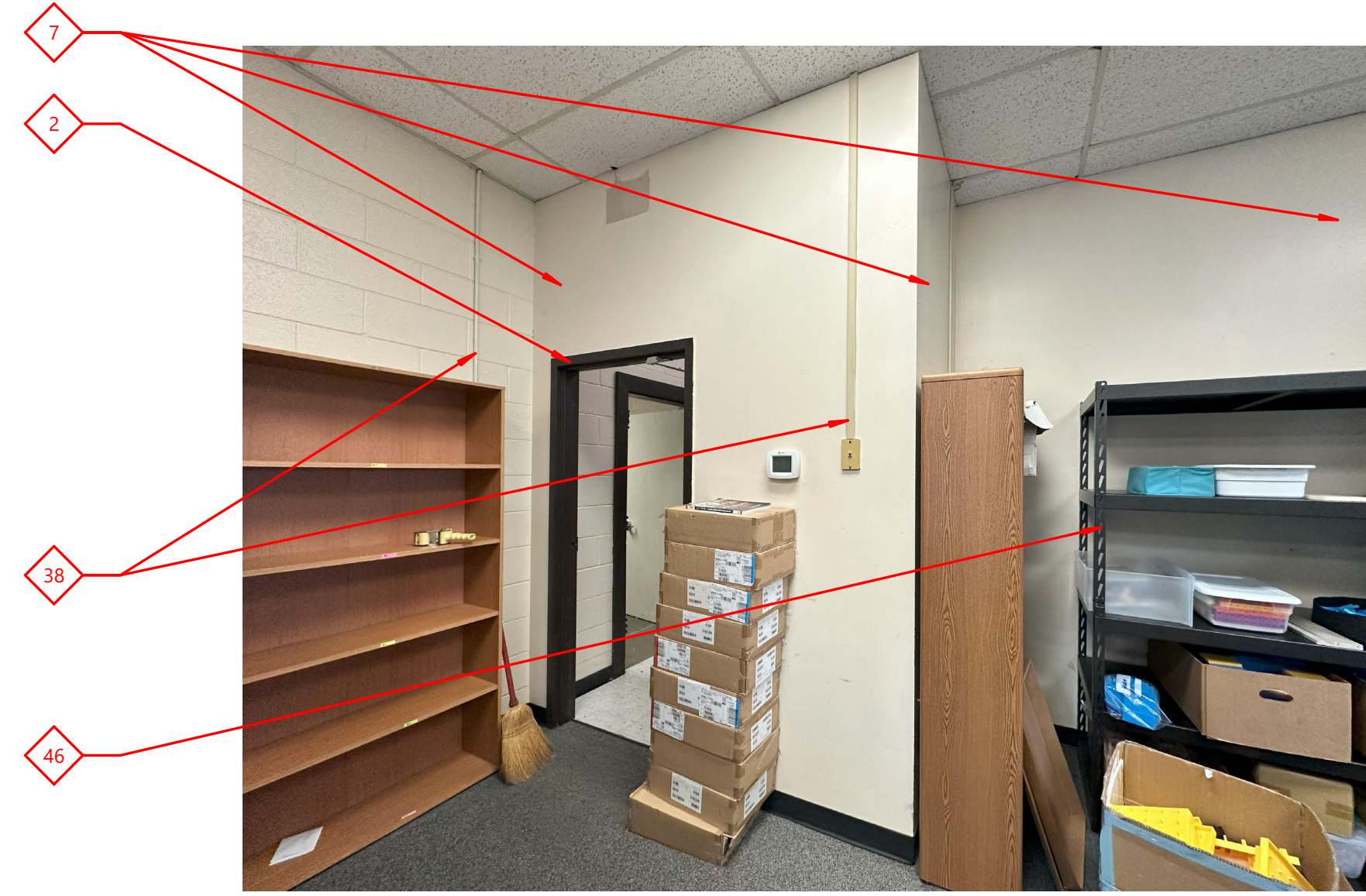
#	Description
46	DEMO MARKER AND TRACK BOARDS, REPAIR WALL TO LIKE NEW CONDITION
47	REMOVE WATER FOUNTAIN AND RE-INSTALL IT IN THE SAME LOCATION. SEE FLOOR PLAN FOR DIMENSIONS.
48	DEMO CHASE AND PREP FOR NEW CMU WALL
49	DEMO CANOPY REMAINS
50	DEMO EXISTING HYDRONIC HEATER, RE-MECH.
51	DEMO EXISTING EXHAUST FAN WITH ASSOCIATED DUCTWORK, RE-MECH.
52	DEMO EXISTING THERMOSTAT, RE-MECH.
54	SAW CUT EXISTING SLAB FOR NEW PLUMBING FIXTURE INSTALLATION OR REMOVAL OF OLD PLUMBING, RE-MEP.
55	CUT EXISTING METAL DECK FOR NEW ROOF HATCH, RE-DEMO RCP AND NEW RCP FOR EXTENTS. RE STRUCTURE FOR OPENING REINFORCEMENT
56	DEMO EXISTING WINDOW UNIT AND INFILL
57	REMOVE WOOD TRIM
58	REMOVE AND RE-INSTALL EXISTING MOP SINK AND CHEMICAL DETERGENT DISPENSER
59	REMOVE AND PROTECT SECURITY CAMERA
60	DEMO ORIGINAL CEILING AND WOOD FURRING
61	DEMO EXTERIOR CMU AND PREP WALL FOR NEW BRICK FINISH
62	DEMO DAMAGED CMU UNTEL AND REPLACE WITH NEW CMU
63	REMOVE GRAB BARS AND REINSTALL
65	DEMO EXISTING TANK
66	REMOVE AND RELOCATE EXISTING FURNACE, RE-MECH.
67	DEMO EXISTING FLOOR DRAIN, RE-MEP
68	DEMO MILLWORK
69	REMOVE FIRE EXTINGUISHER AND BRACKET. INSTALL FIRE EXTINGUISHER IN NEW CABINET
70	DEMO CHAIN AND BRACKETS, REPAIR WALL



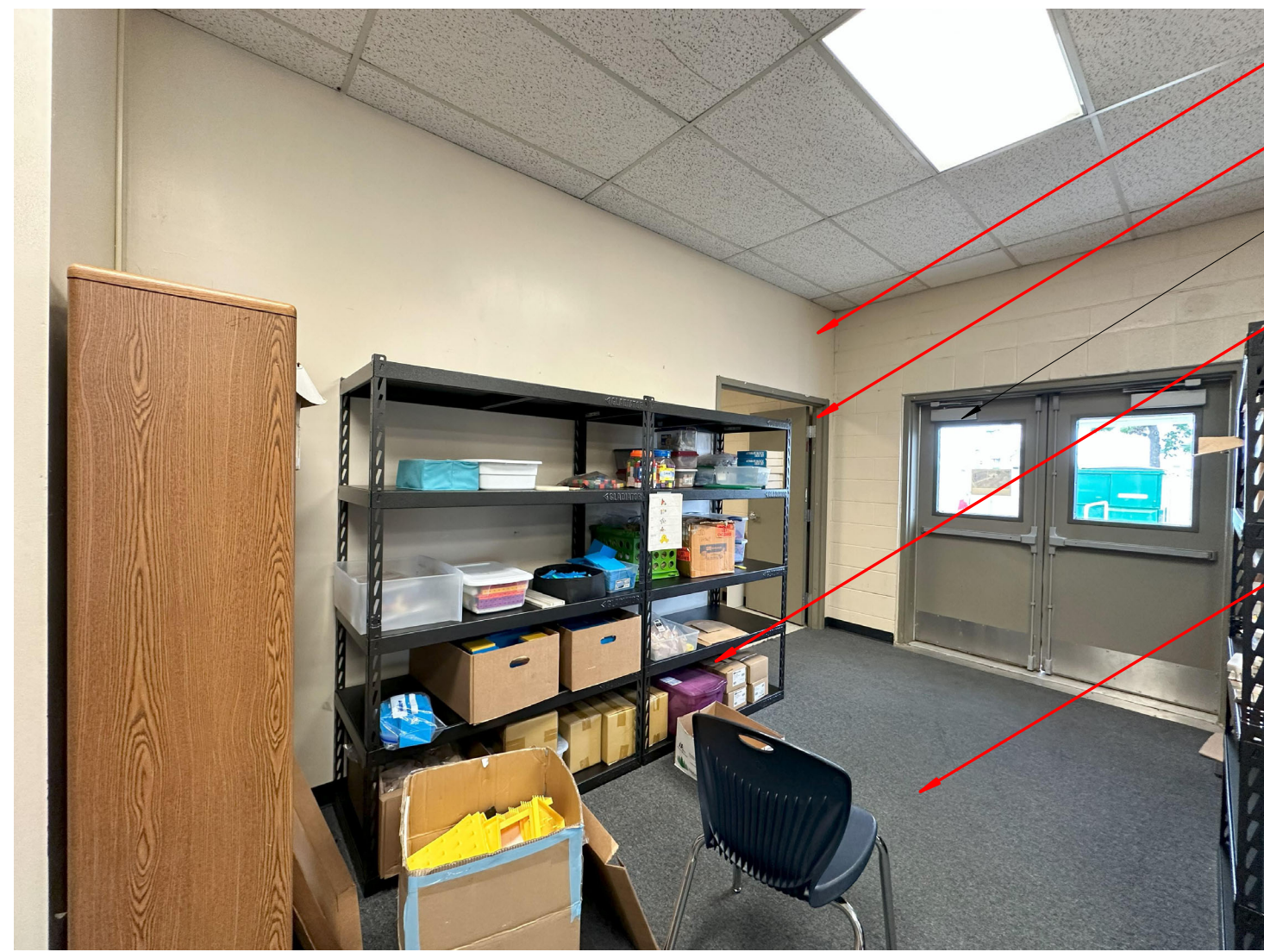
K1 Pic 1



K6 Pic 2



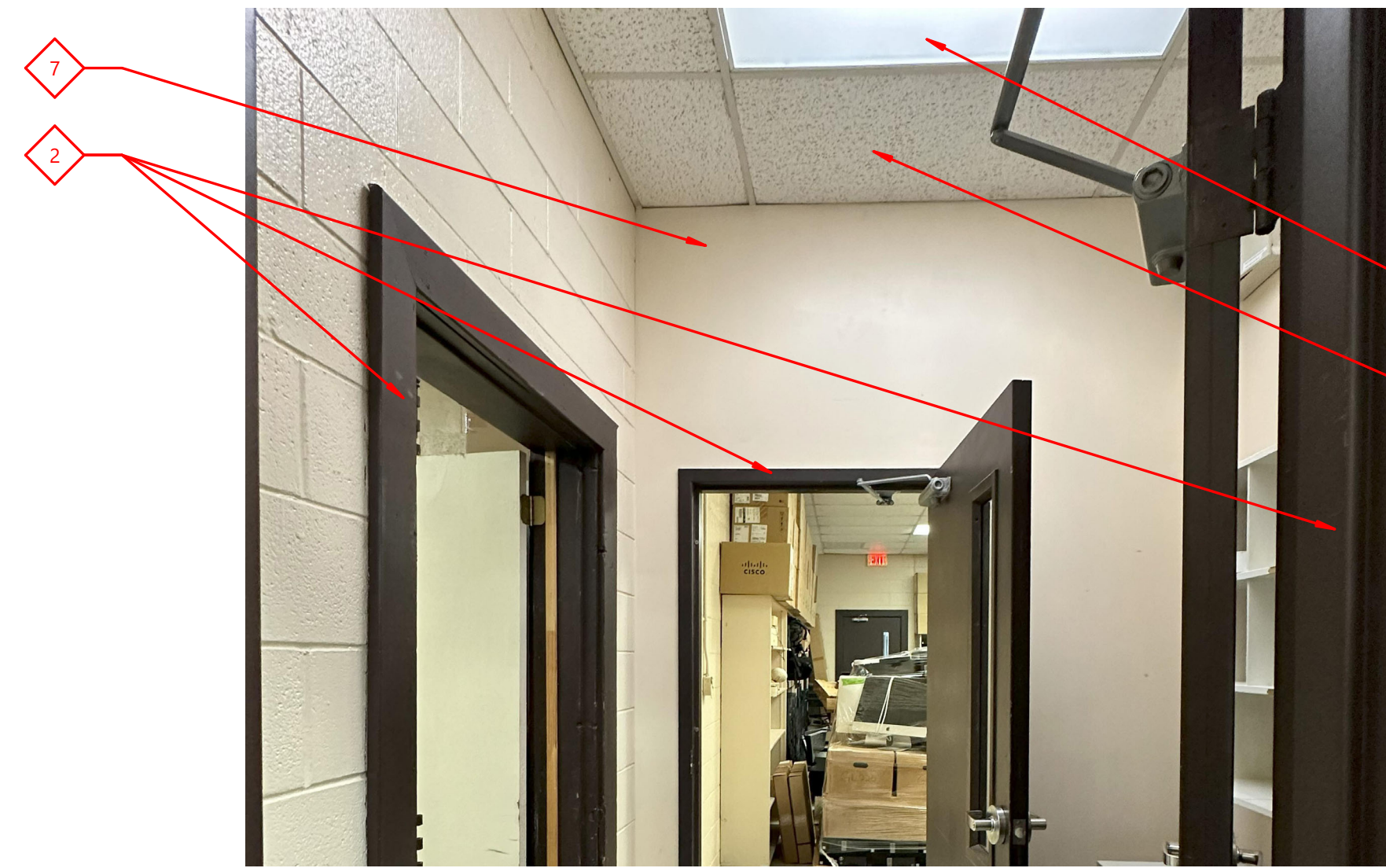
K12 Pic 3



E1 Pic 4



E6 Pic 5



E12 Pic 6



A1 Pic 7



A6 Pic 8



A12 Pic 9



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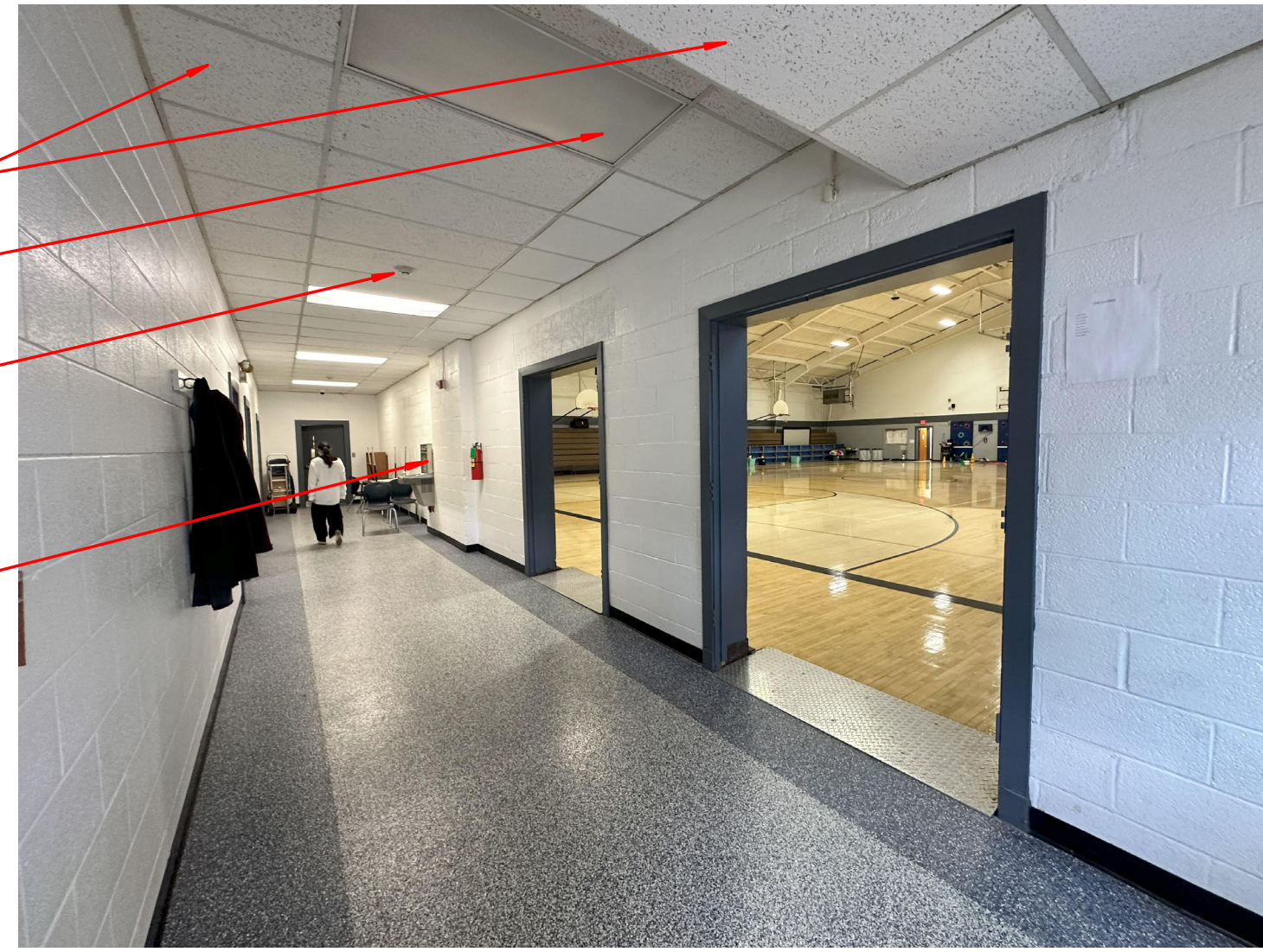
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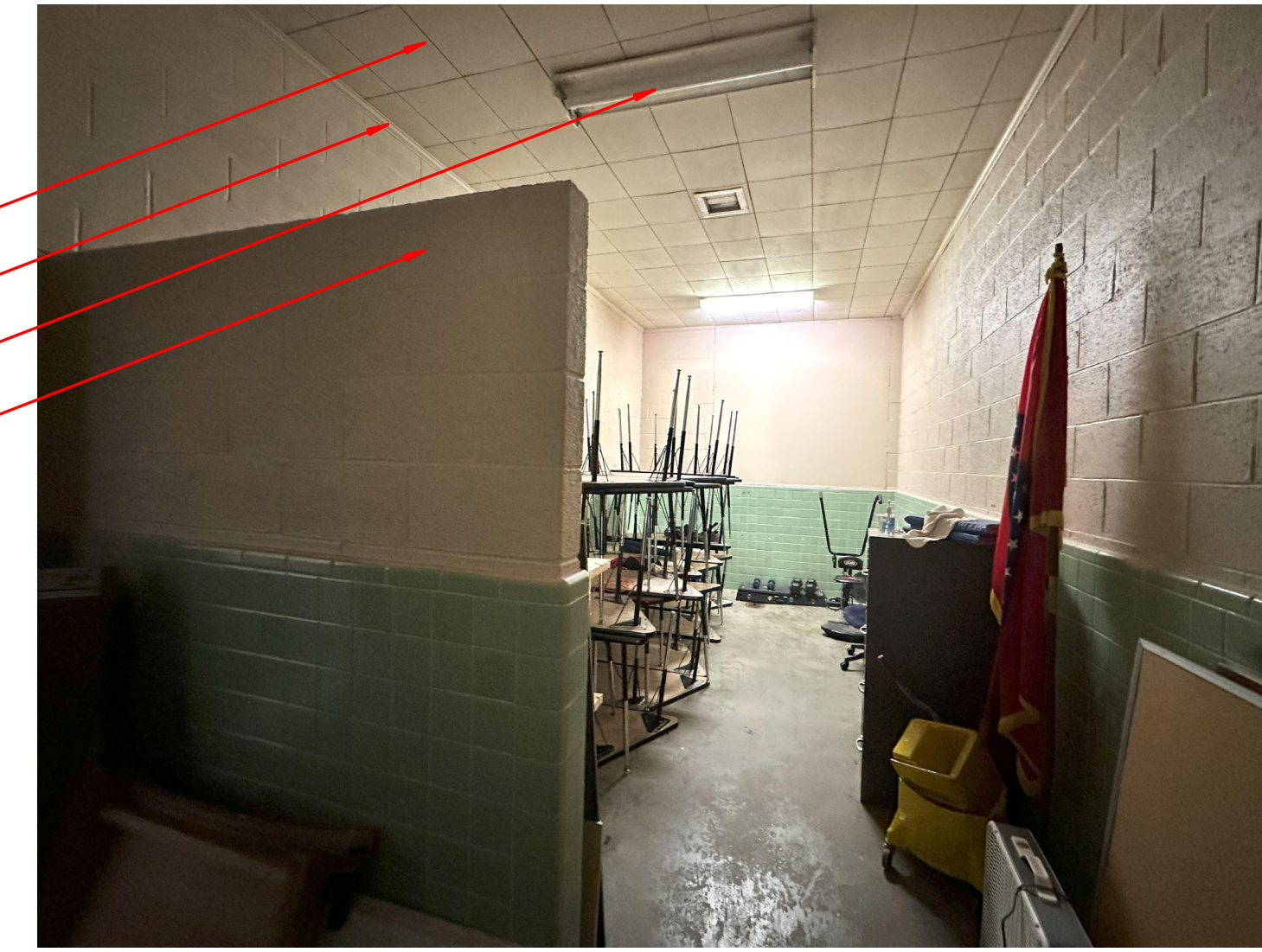
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K1 Pic 10



K6 Pic 11



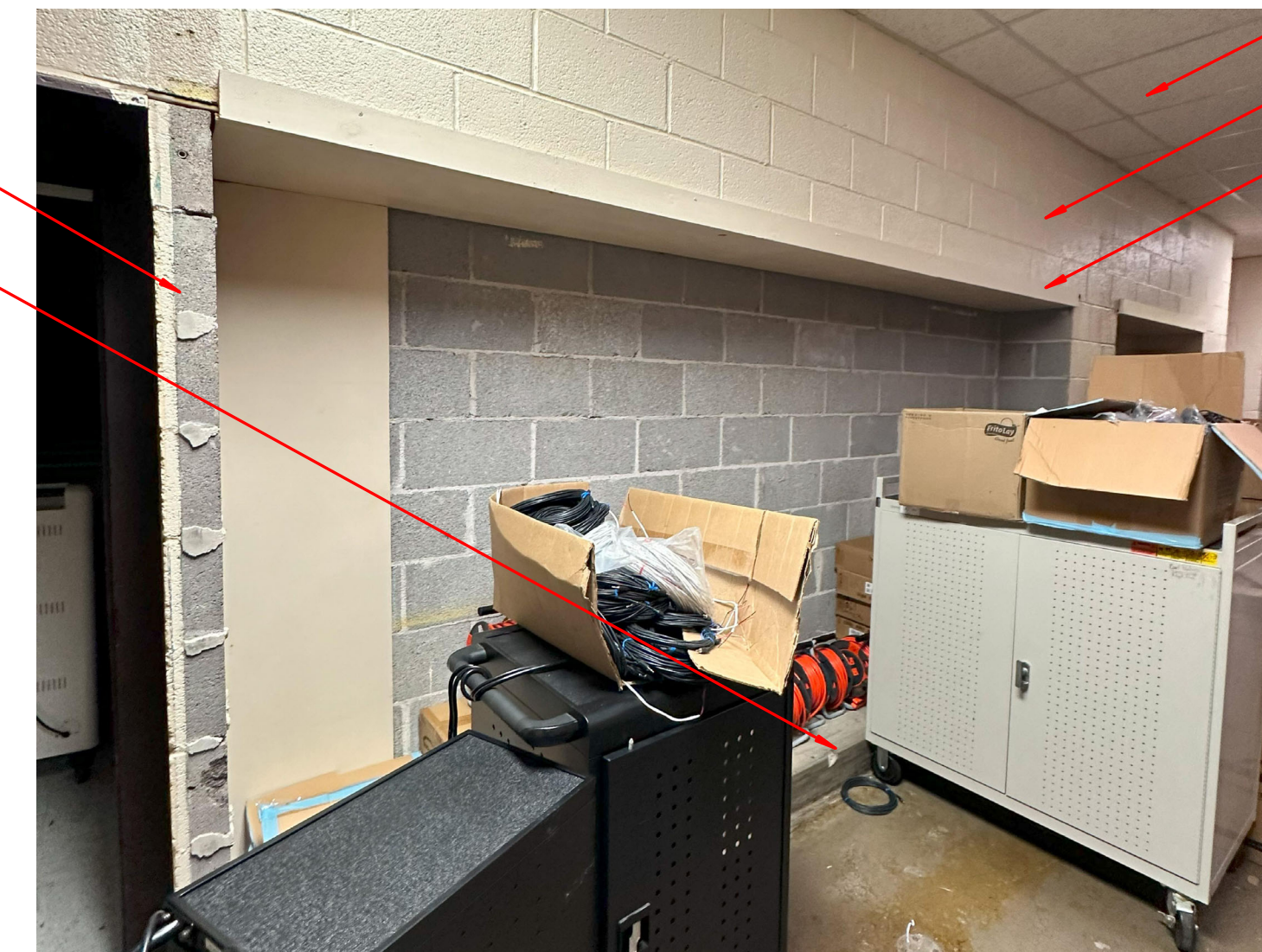
K12 Pic 12



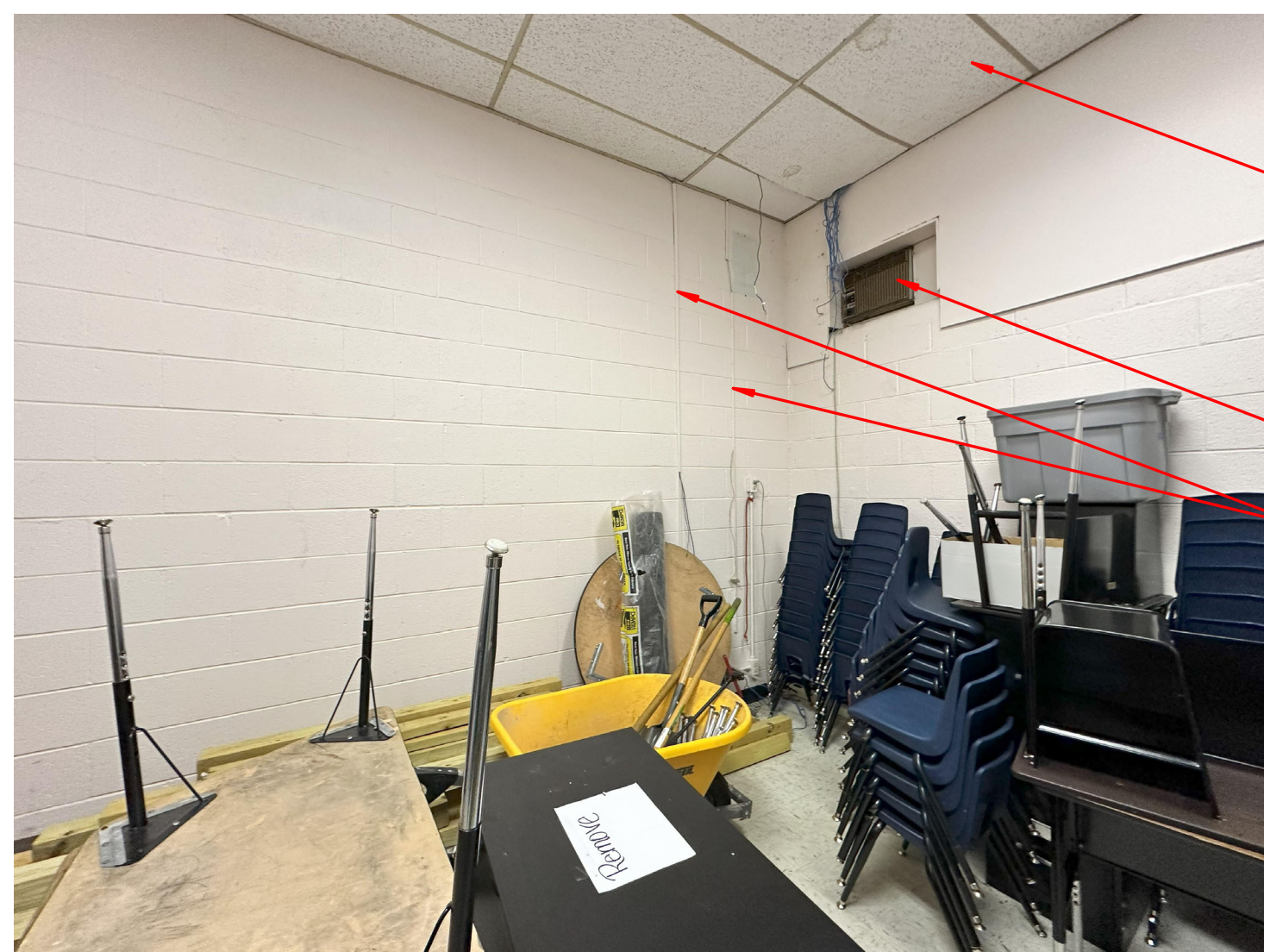
E1 Pic 13



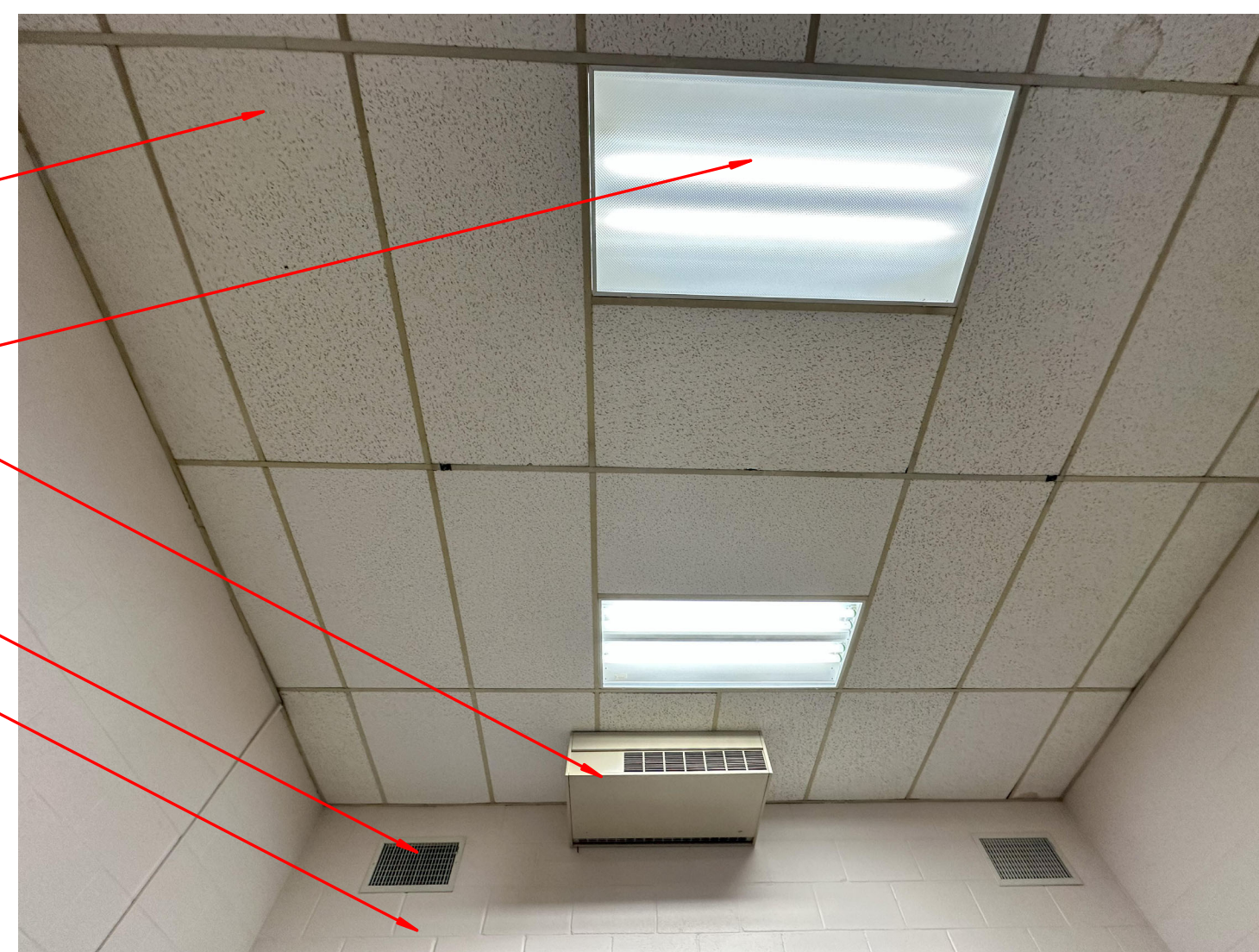
E6 Pic 14



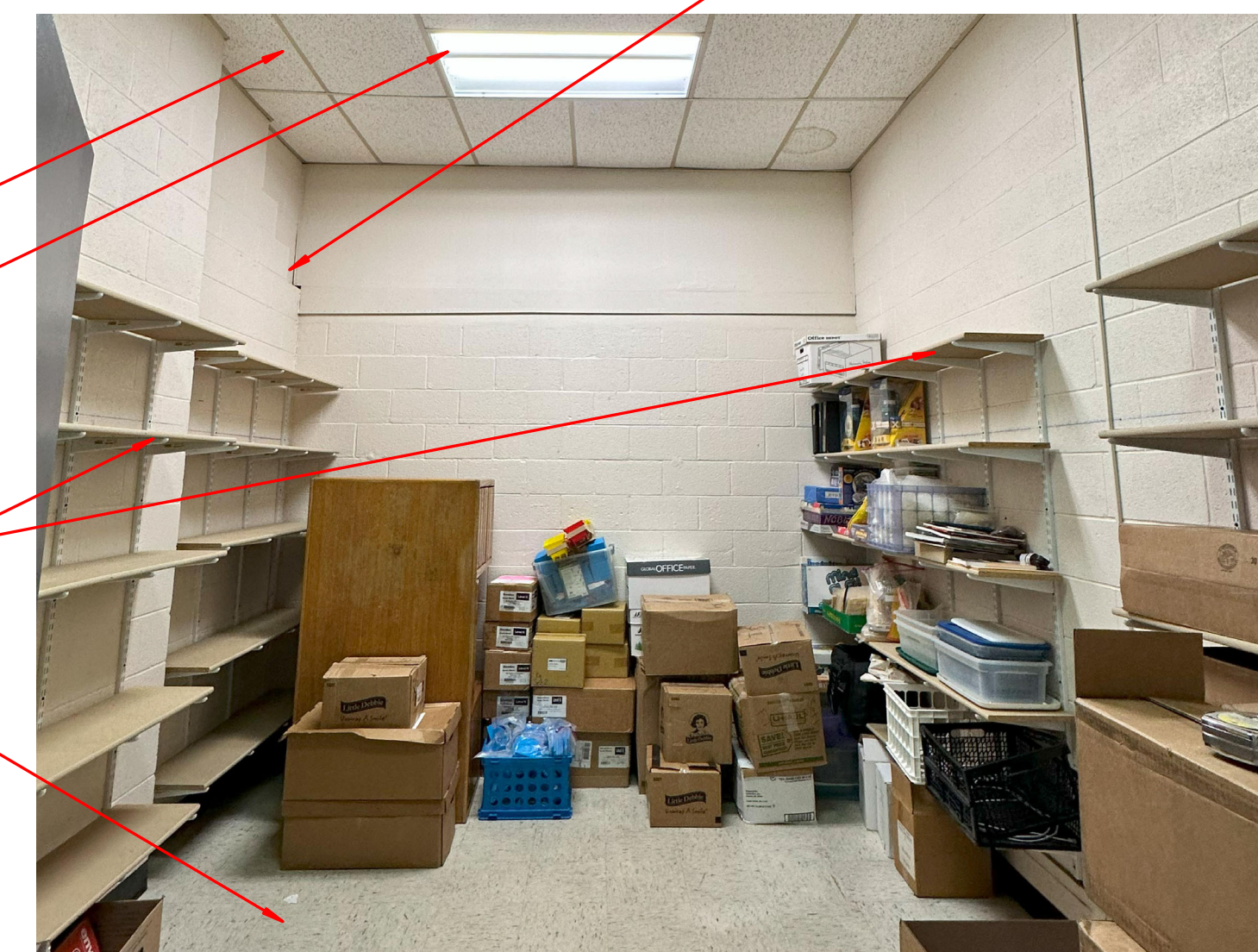
E12 Pic 15



A1 Pic 16



A6 Pic 17



A12 Pic 18



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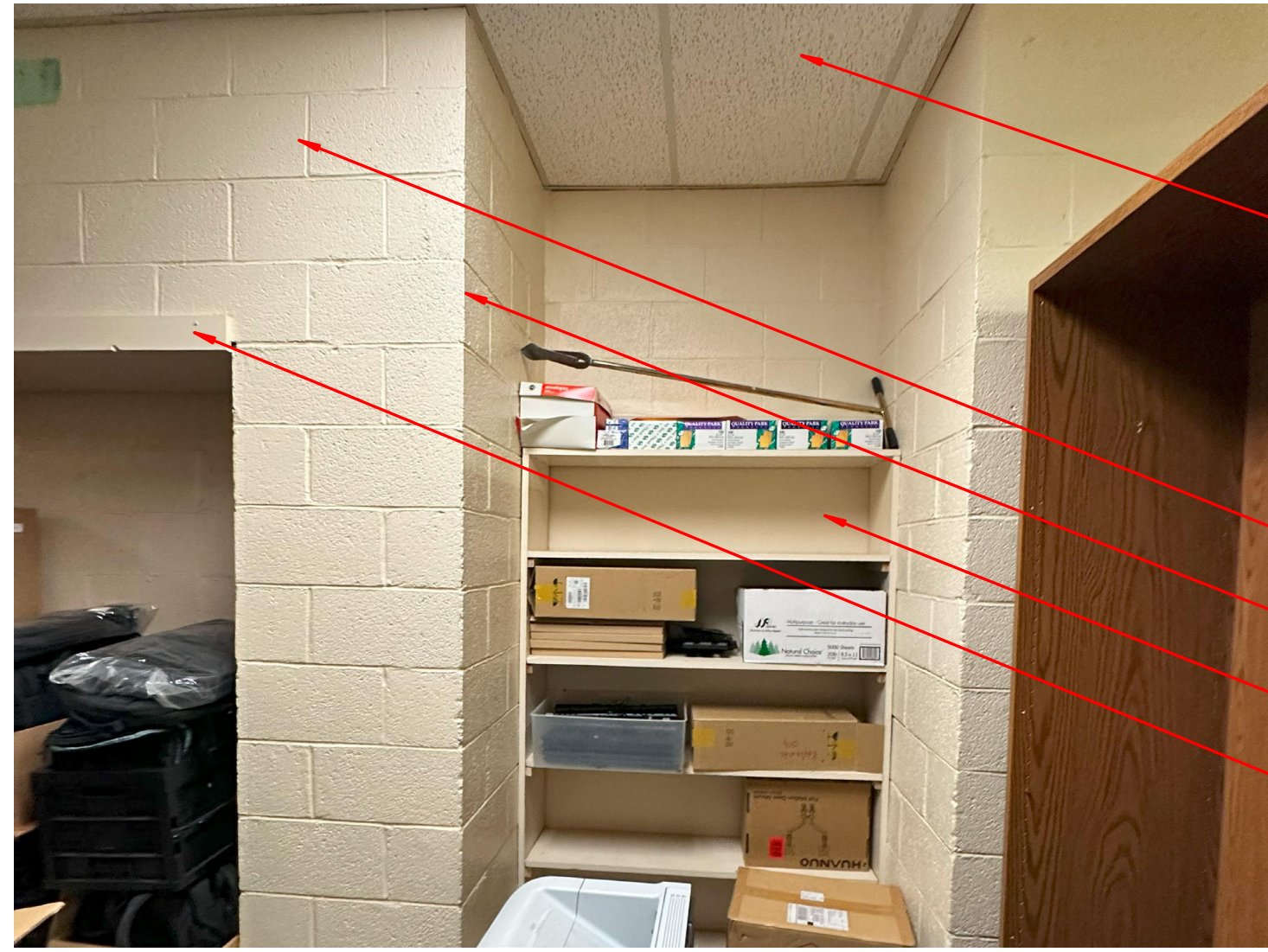
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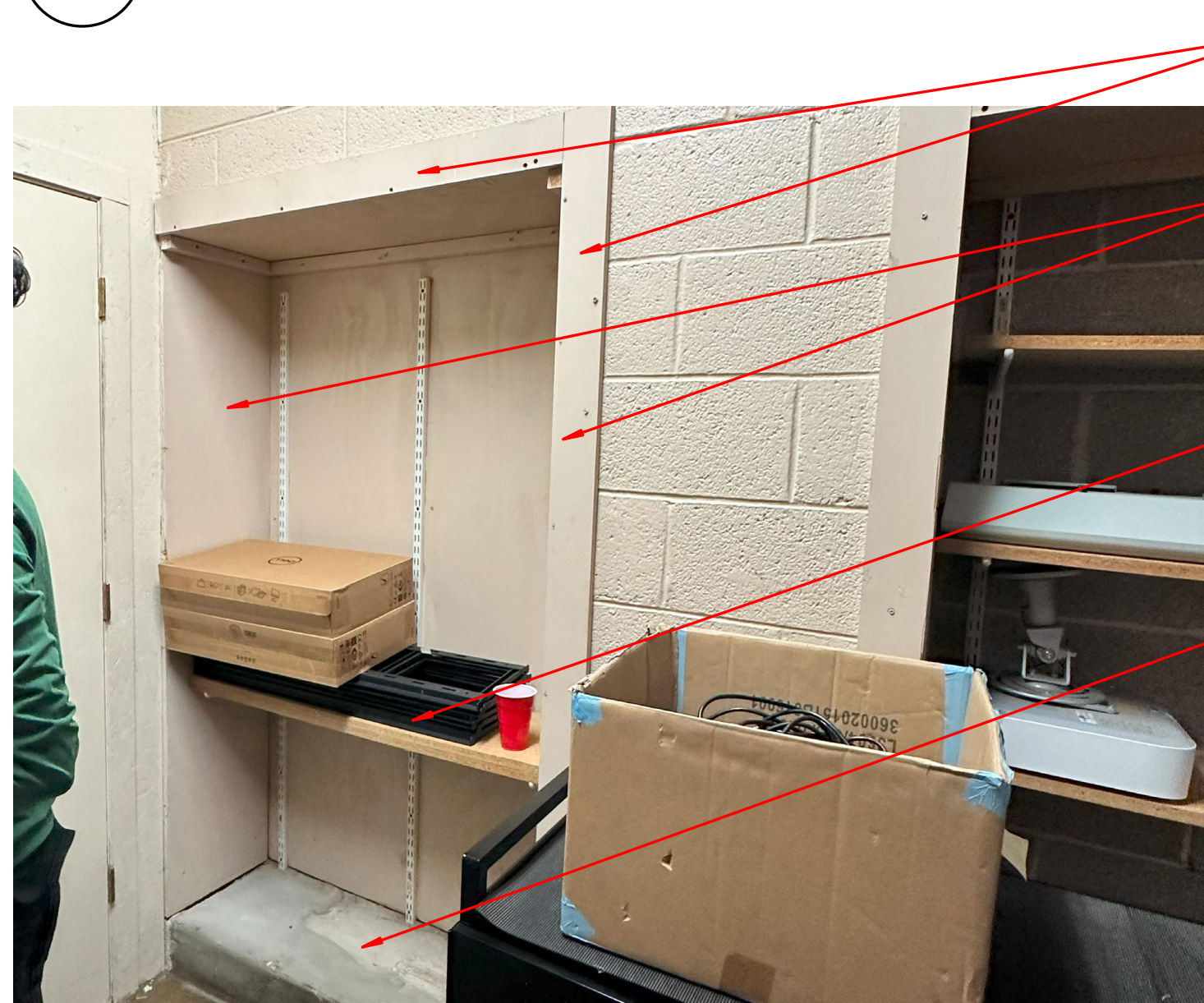
K1 Pic 19



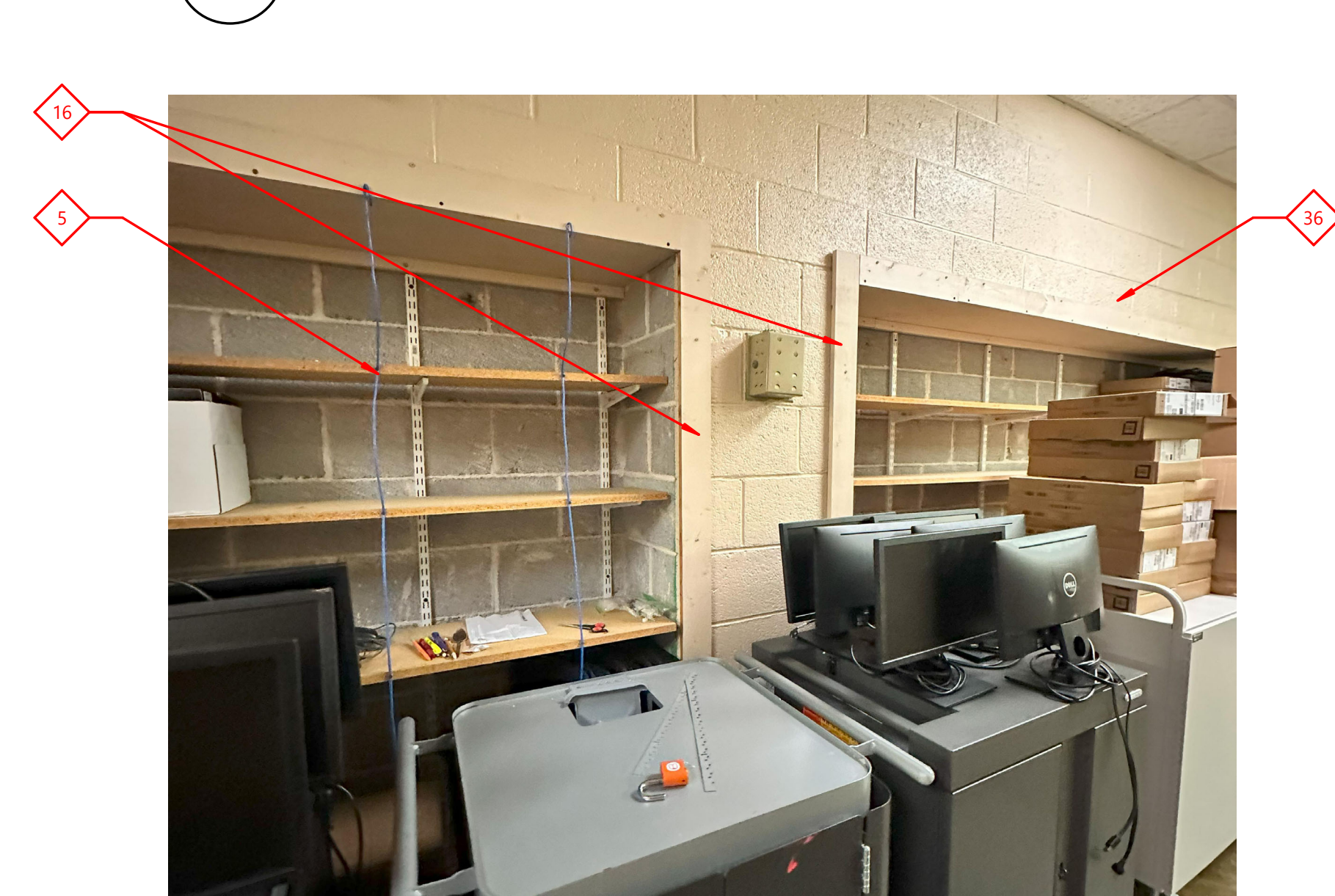
K6 Pic 20



K12 Pic 21



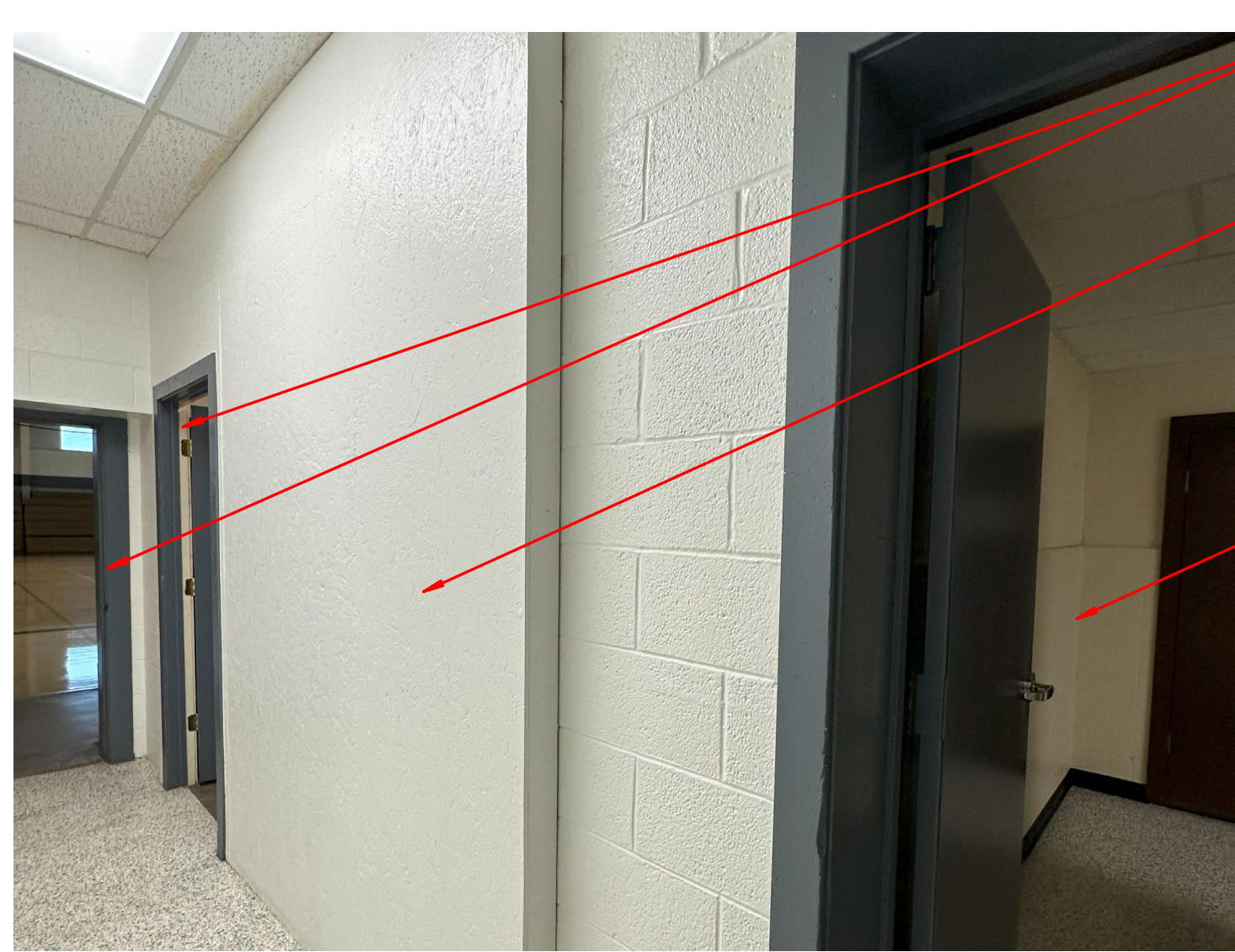
E1 Pic 22



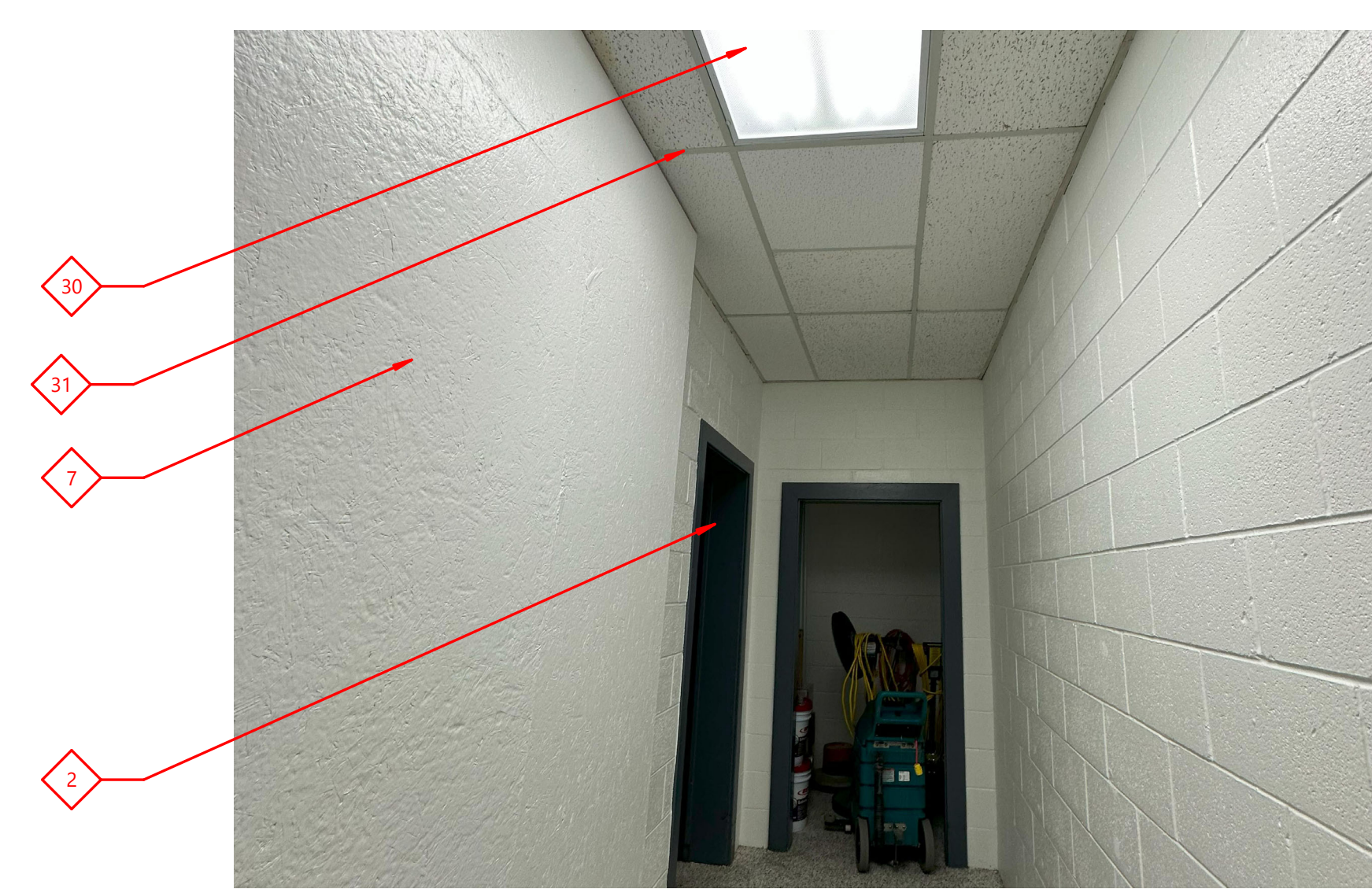
E6 Pic 23



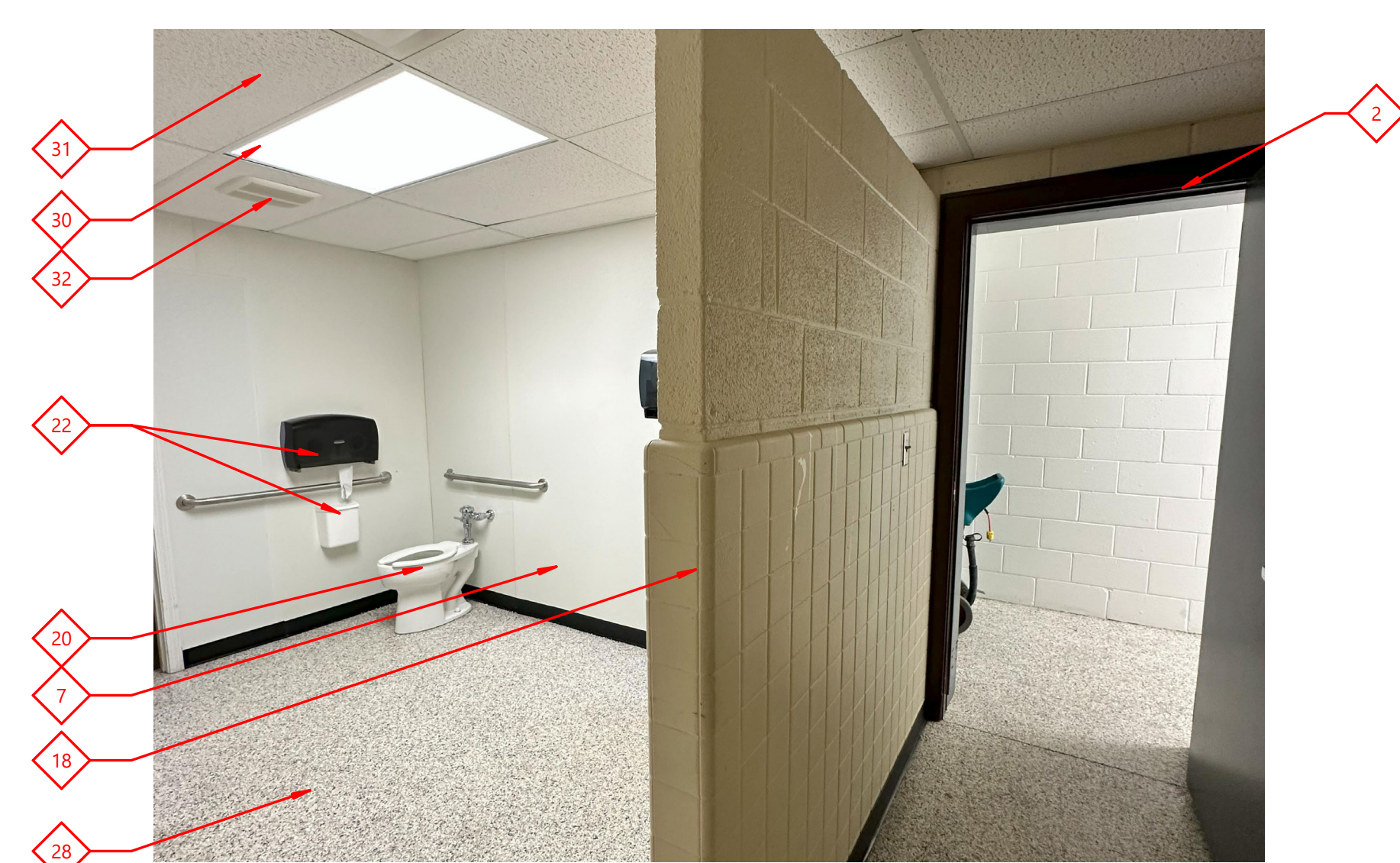
E12 Pic 24



A1 Pic 25



A6 Pic 26



A12 Pic 27



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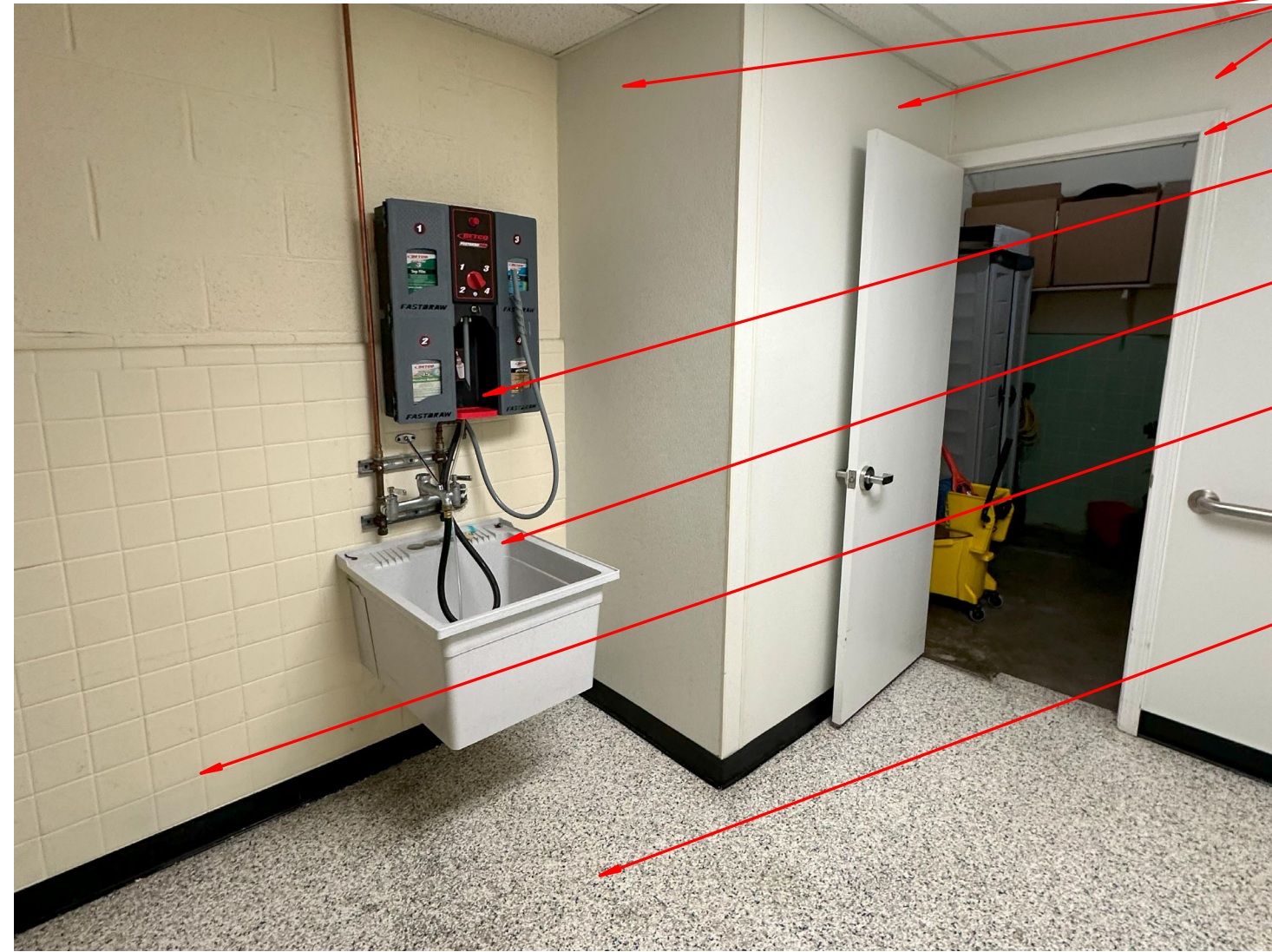
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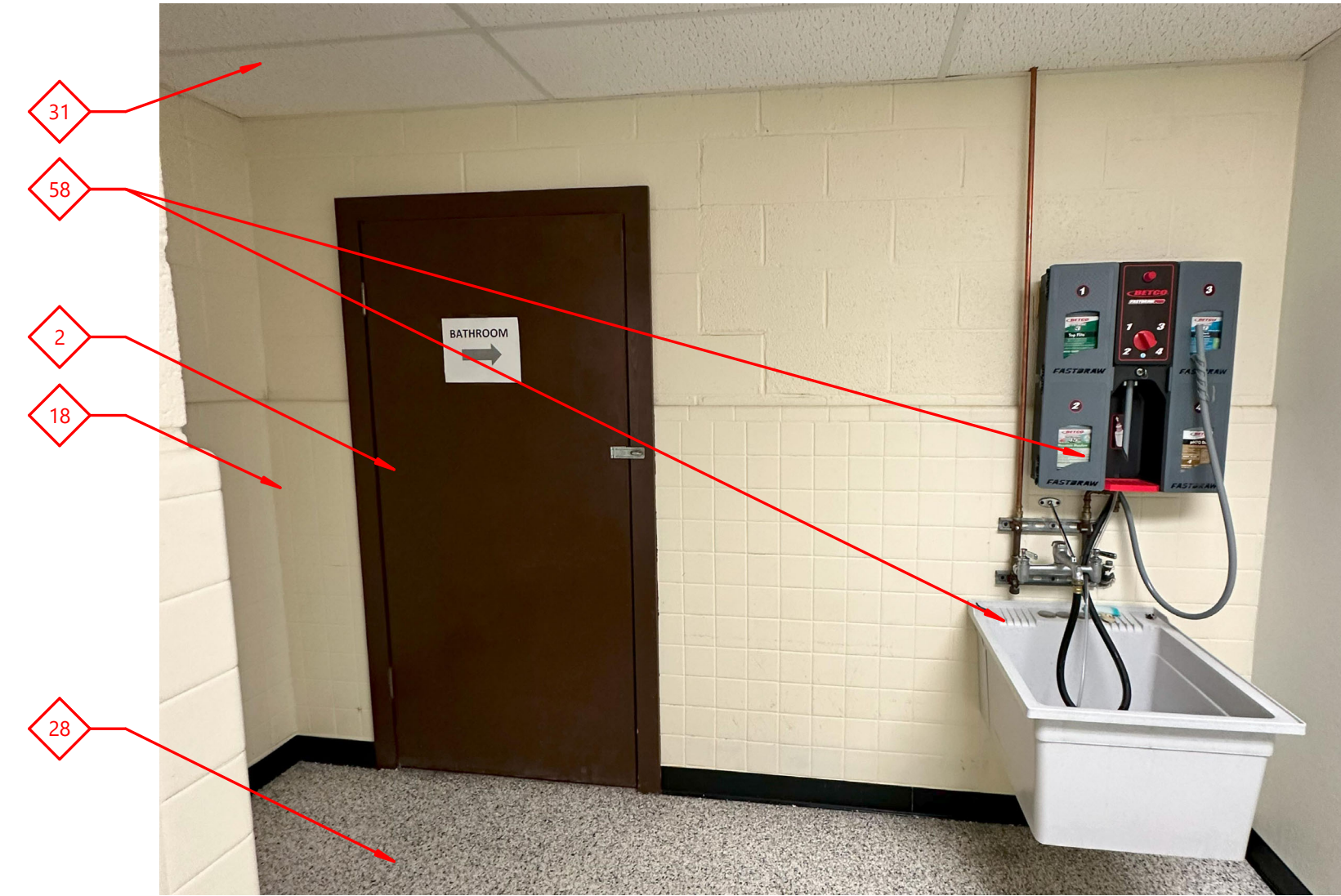
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K1 Pic 28



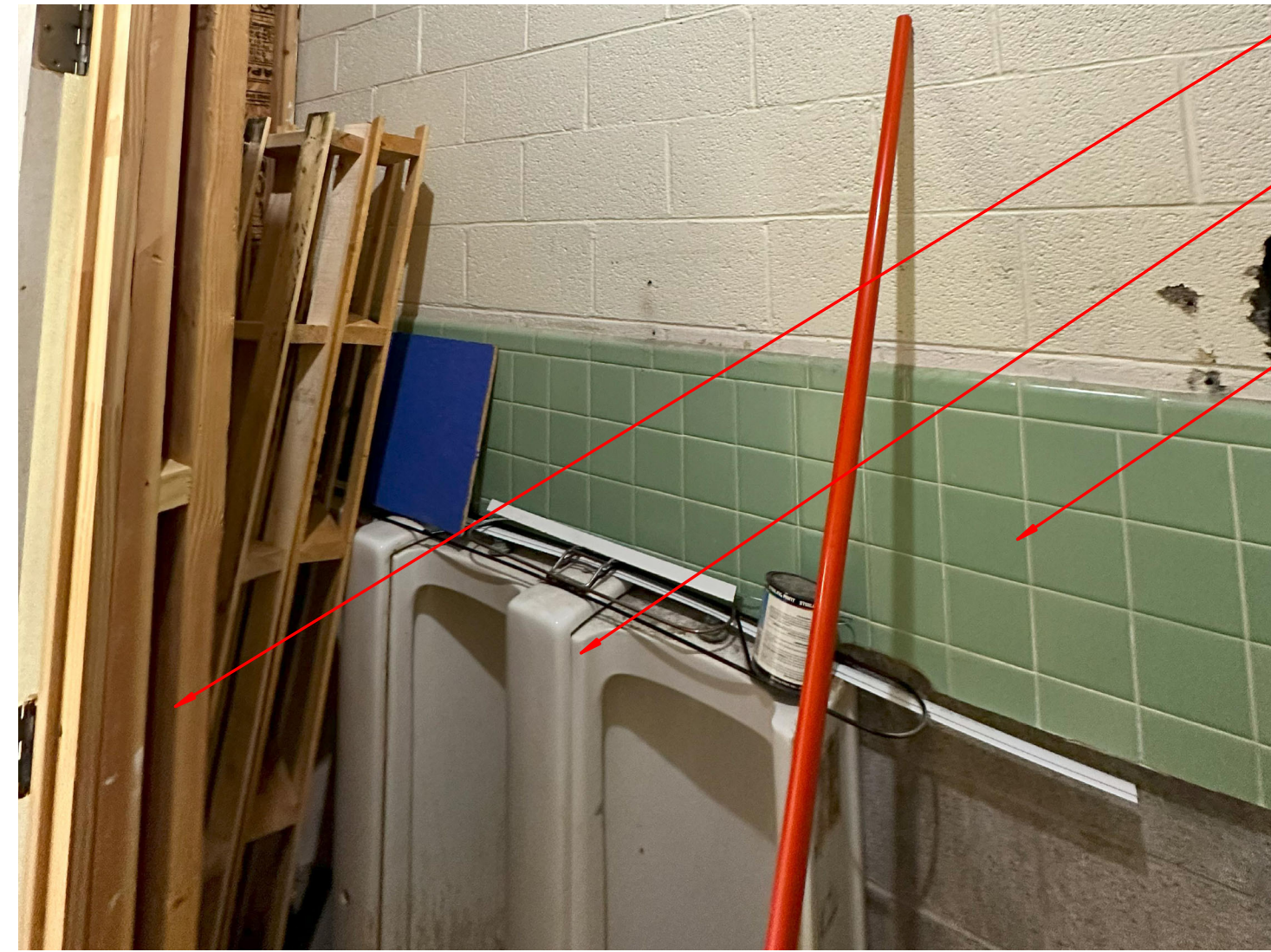
K6 Pic 29



K12 Pic 30



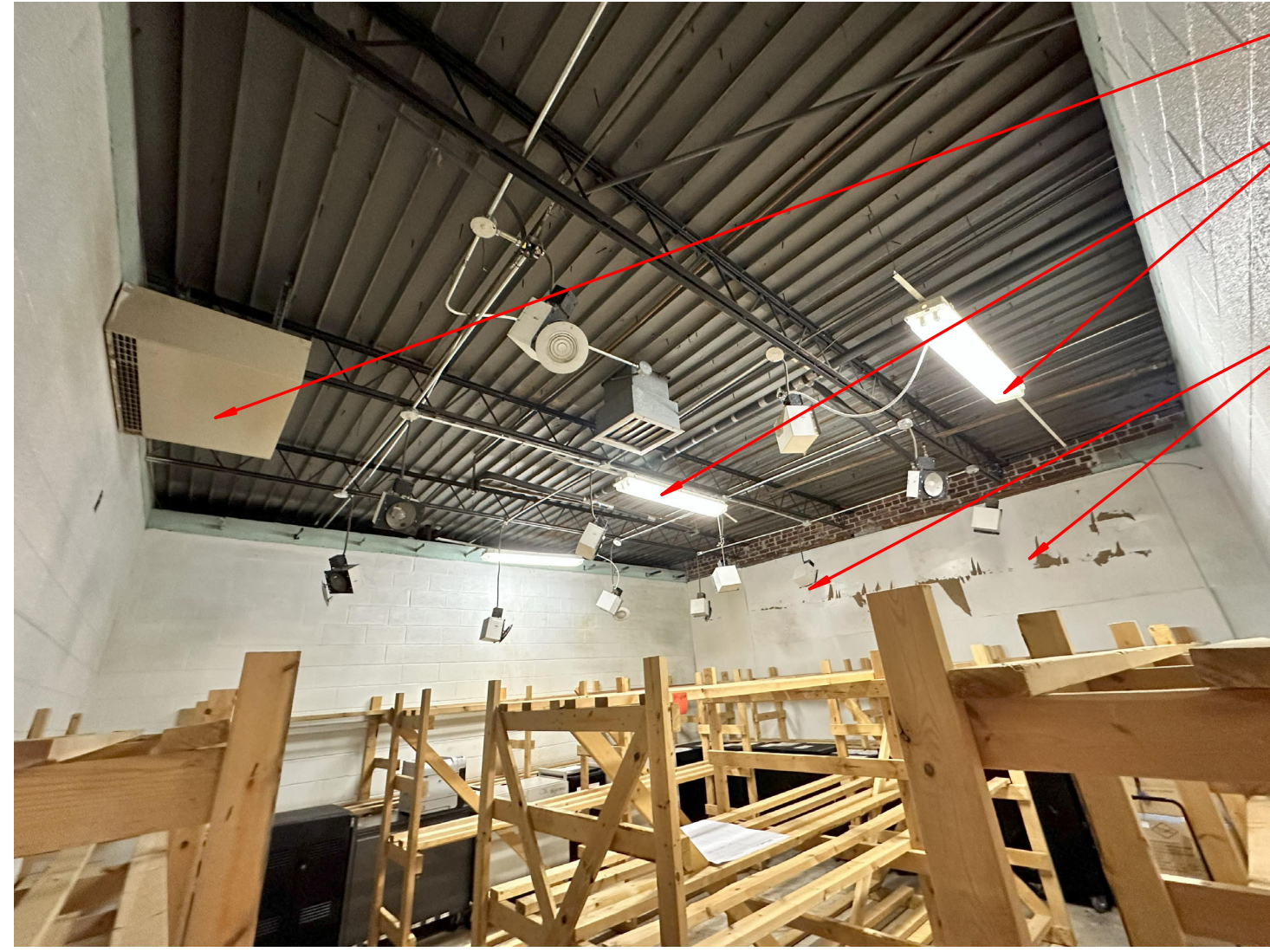
E1 Pic 31



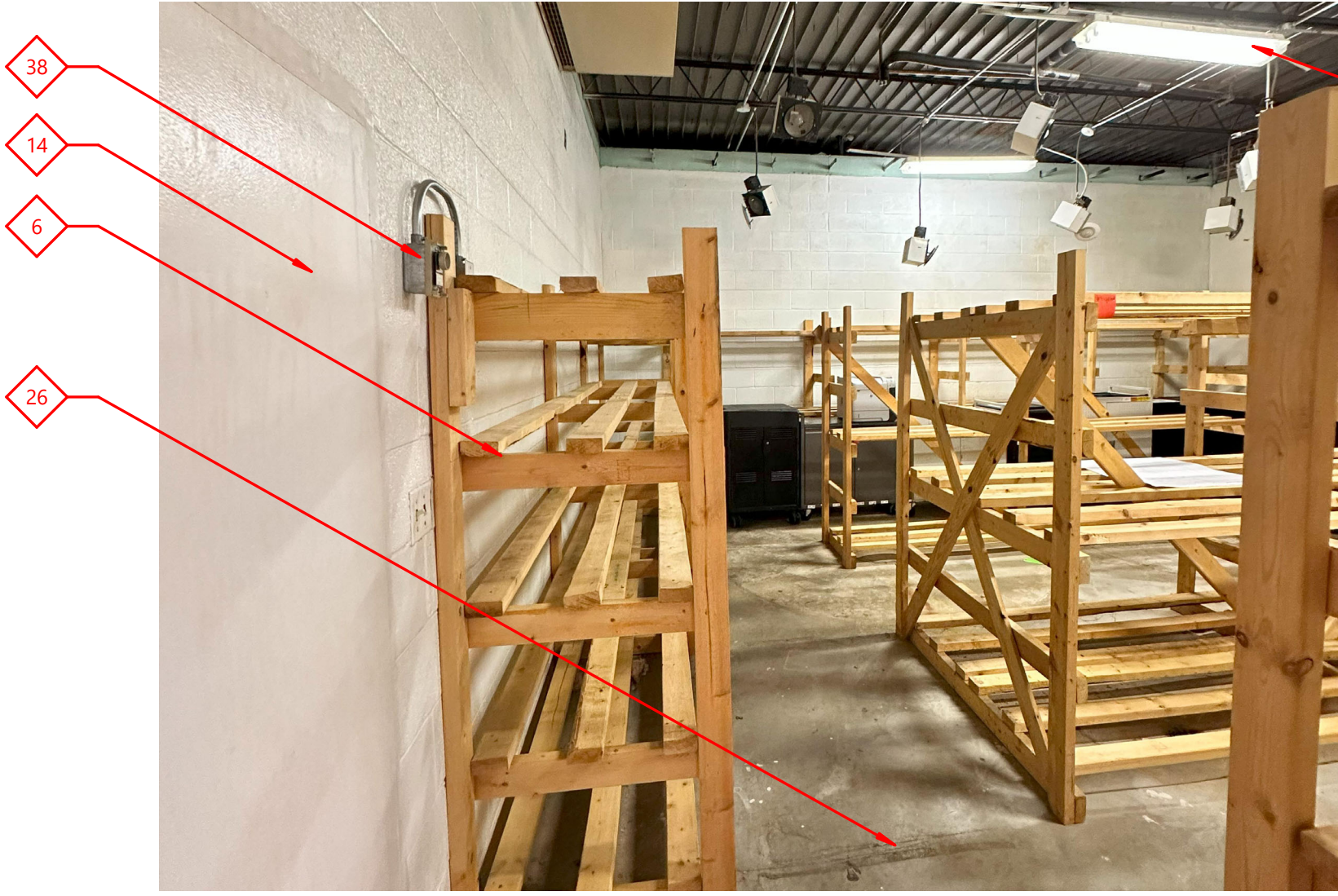
E6 Pic 32



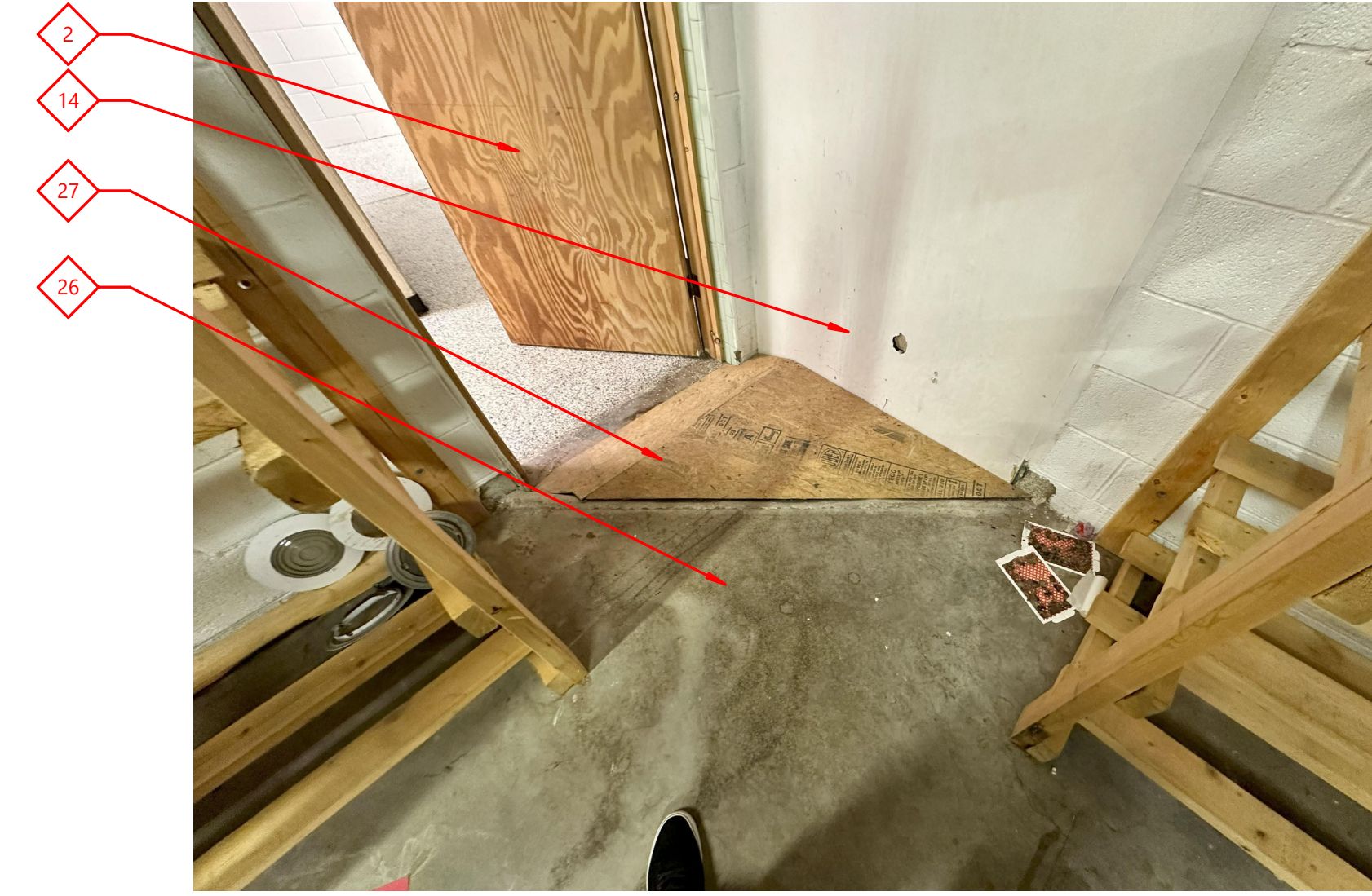
E12 Pic 33



A1 Pic 34



A6 Pic 35



A12 Pic 36



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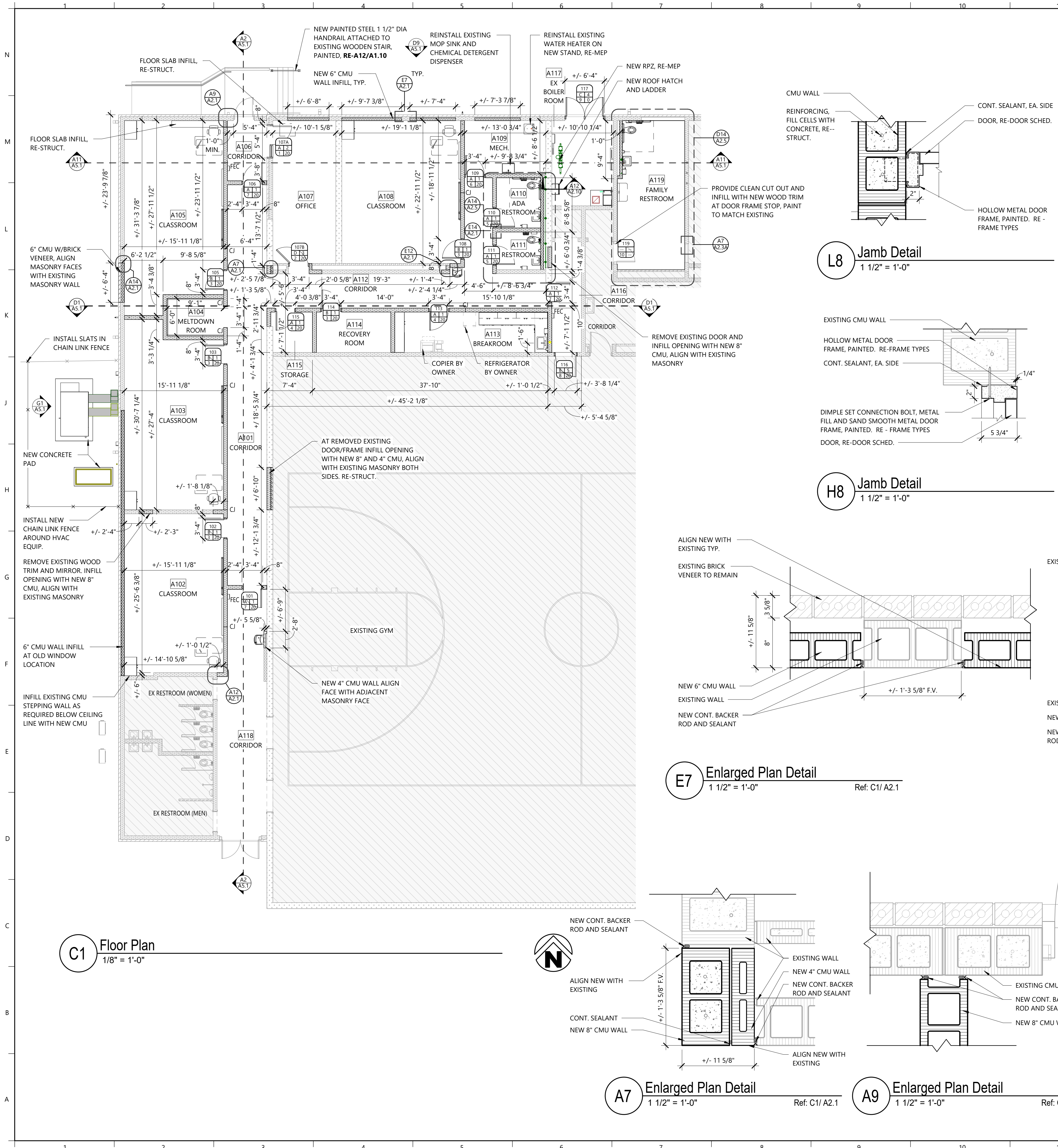
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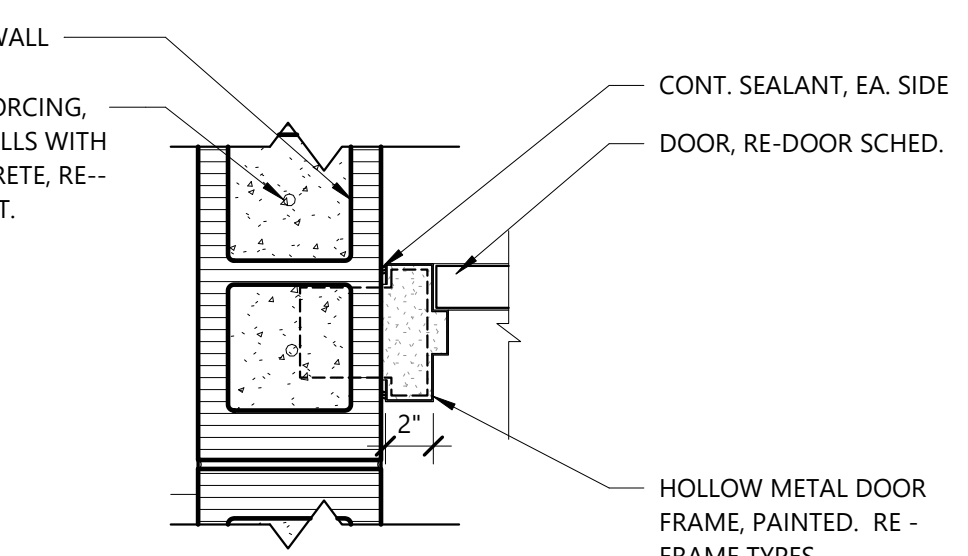
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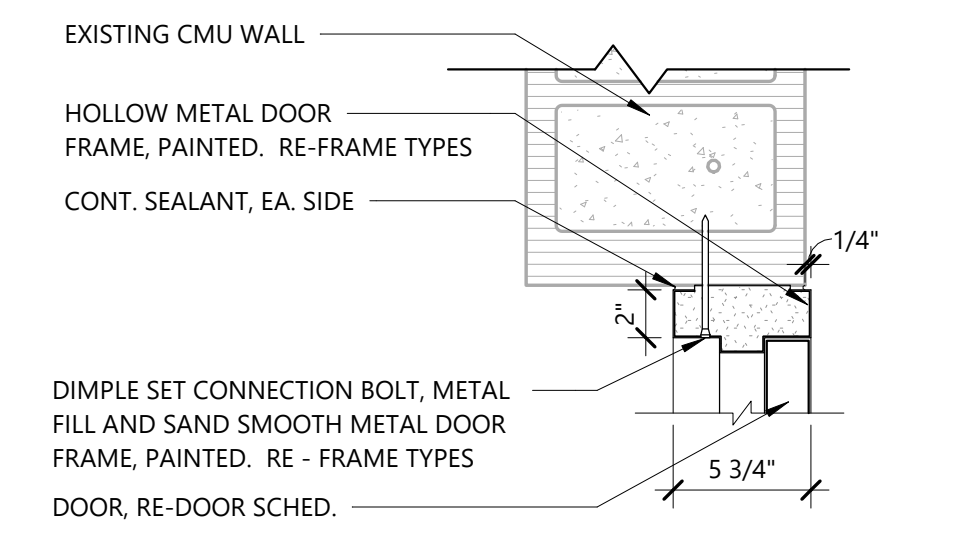


SYMBOL LEGEND		WALL LEGEND	
	DRAWING NUMBER BASED ON SHEET GRID DRAWING TITLE 1/8" = 1'-0" Ref. A1/ A2.2		DOOR MARK DIAGRAM DOOR NUMBER DOOR TYPE HARDWARE SET (NA=RE-ALLOWANCE)
	NORTH ARROW		SECTION OR DETAIL NUMBER
	ROOM NUMBER AND NAME		BUILDING SECTION
	ELEVATION MARK IN PLAN		WALL SECTION
	ELEVATION MARK SECTION AND PLAN		DETAIL MARK
			ELEVATION MARK SECTION AND ELEVATION
			MILLWORK/INTERIOR ELEVATION
			WALL AND PARTITION MATERIALS 4" CMU BLOCK WALL 6" CMU BLOCK WALL 8" CMU BLOCK WALL
			SMOKE WALLS AND FIRE RATED WALLS REFER TO SHEET A1.0 CODE FOOTPRINTS FOR RATED WALLS AND CEILINGS.

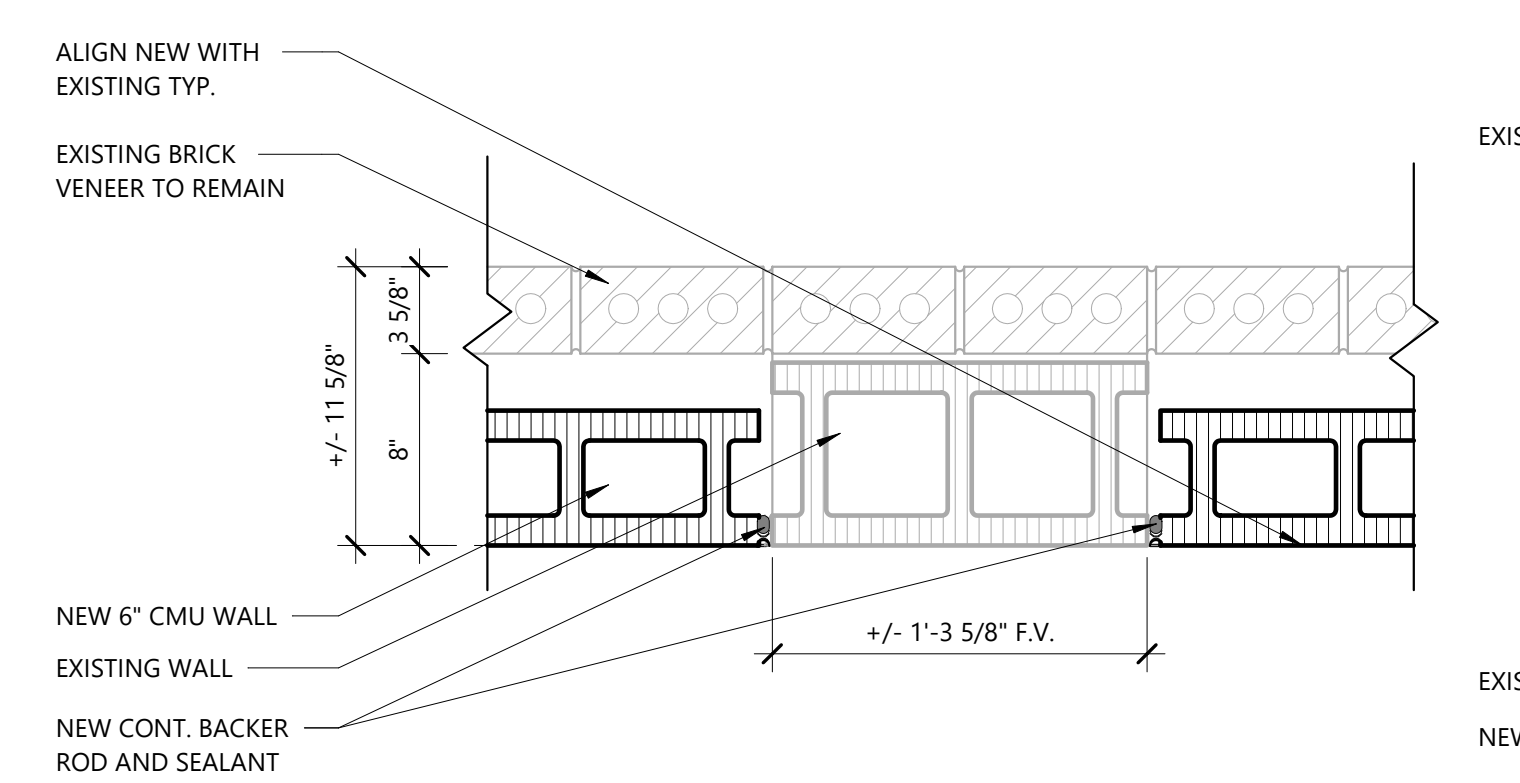
GENERAL NOTES:	METAL STUD GAUGES
<ol style="list-style-type: none"> ALL DIMENSIONS ARE TO BE FROM FACE OF STUD OR BLOCK UNLESS NOTED OTHERWISE. FURNITURE AND EQUIPMENT SHOWN DASHED ON PLANS ARE N.I.C. (NOT IN CONTRACT) U.N.O. (UNLESS NOTED OTHERWISE) PROVIDE CONTROL JOINTS IN ALL MASONRY VENEER AS SHOWN ON BUILDING ELEVATIONS, PLANS AND SPECIFIED. CONTROL JOINTS SHALL NOT EXCEED 24'-0" O.C. COMPLY WITH THE US DEPARTMENT OF JUSTICE ADOPTED 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE STATE OF ARKANSAS ADOPTED 2009 ANSI A117.1 STANDARD FOR ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES THROUGH THE 2021 ARKANSAS FIRE PREVENTION CODE BY THE ARKANSAS STATE FIRE MARSHALL IN REGARDS TO ACCESSIBILITY OR HANDICAPPED FEATURES. 1 HOUR FIRE RATED WALLS TO EXTEND TIGHT TO DECK, FIRE CAULKED. INSTALL FIRE SAFING TO FILL ALL VOIDS, AND CAULK ALL PENETRATIONS, TYP. ALL RATED WALLS TO BE IDENTIFIED AT TOP OF WALL (ABOVE CEILING) WITH PAINTED STENCILLED TEXT TO READ "X HR RATED WALL" PROVIDE CORRECT HOUR RATING IN PLACE OF "X". TEXT HEIGHT TO BE MINIMUM 2" AT INTERVALS OF EVERY 10' LINEAR. 	UNLESS NOTED OTHERWISE, MINIMUM STUD GAUGE SHALL BE AS FOLLOWS--- (LENGTH INDICATED IS FOR UNBRACED LENGTH) STUD FRAMING FOR CEILING SUPPORT, FURRING, STUD BRACING, ETC. <ul style="list-style-type: none"> 3 5/8" AND 6" STUD JOIST 20 GAUGE CSJ AT 16" ON CENTER. STUD BRACING 20 GAUGE CSJ STUD AT 16" ON CENTER.



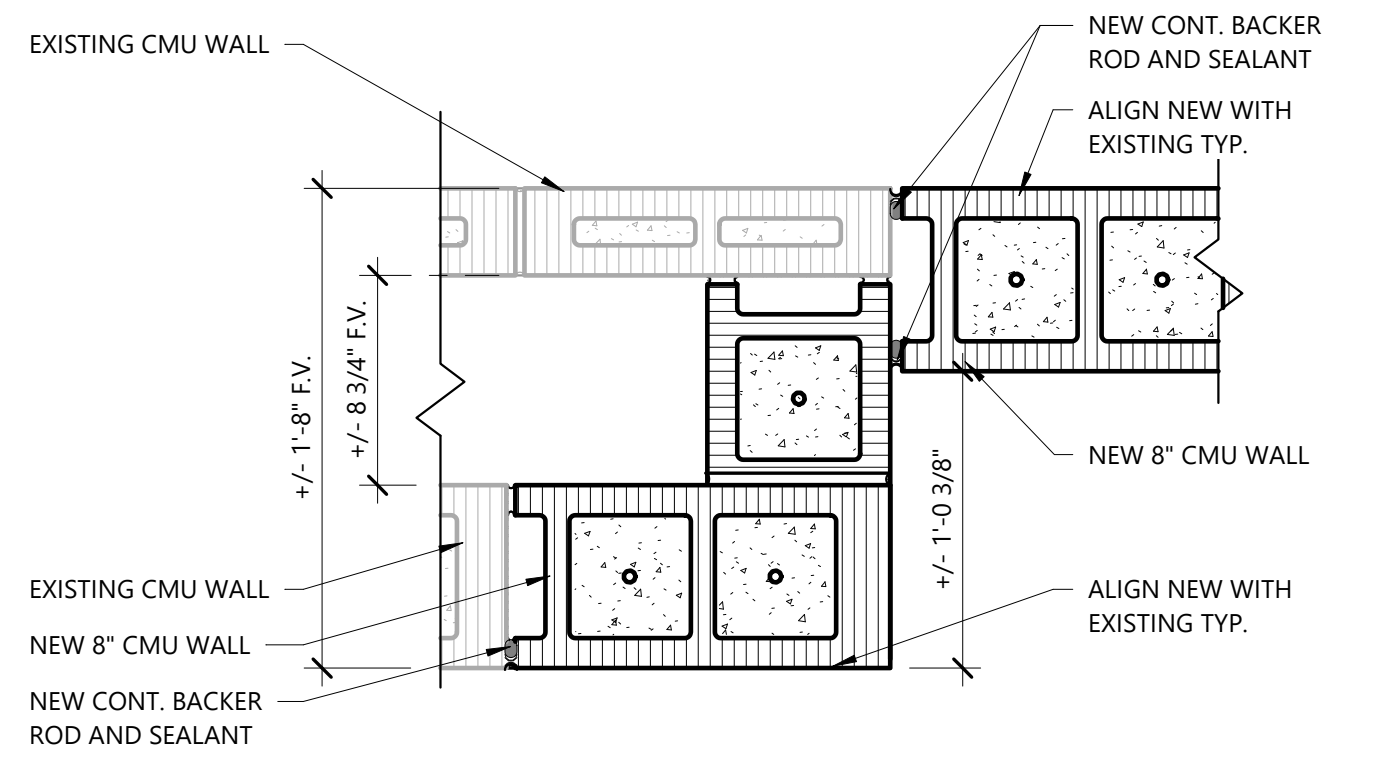
L8 Jamb Detail
1 1/2" = 1'-0"



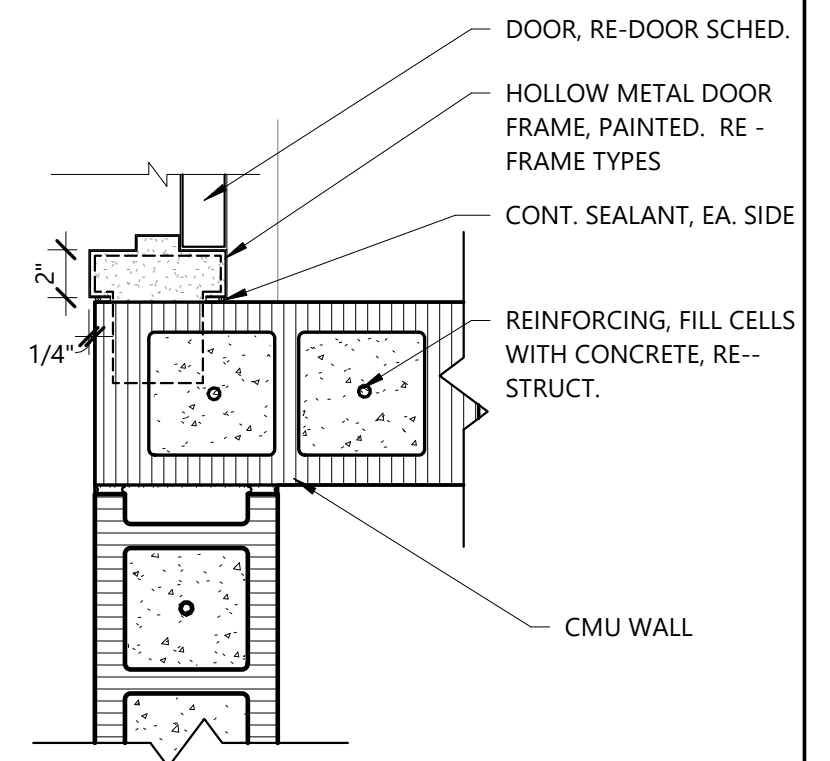
H8 Jamb Detail
1 1/2" = 1'-0"



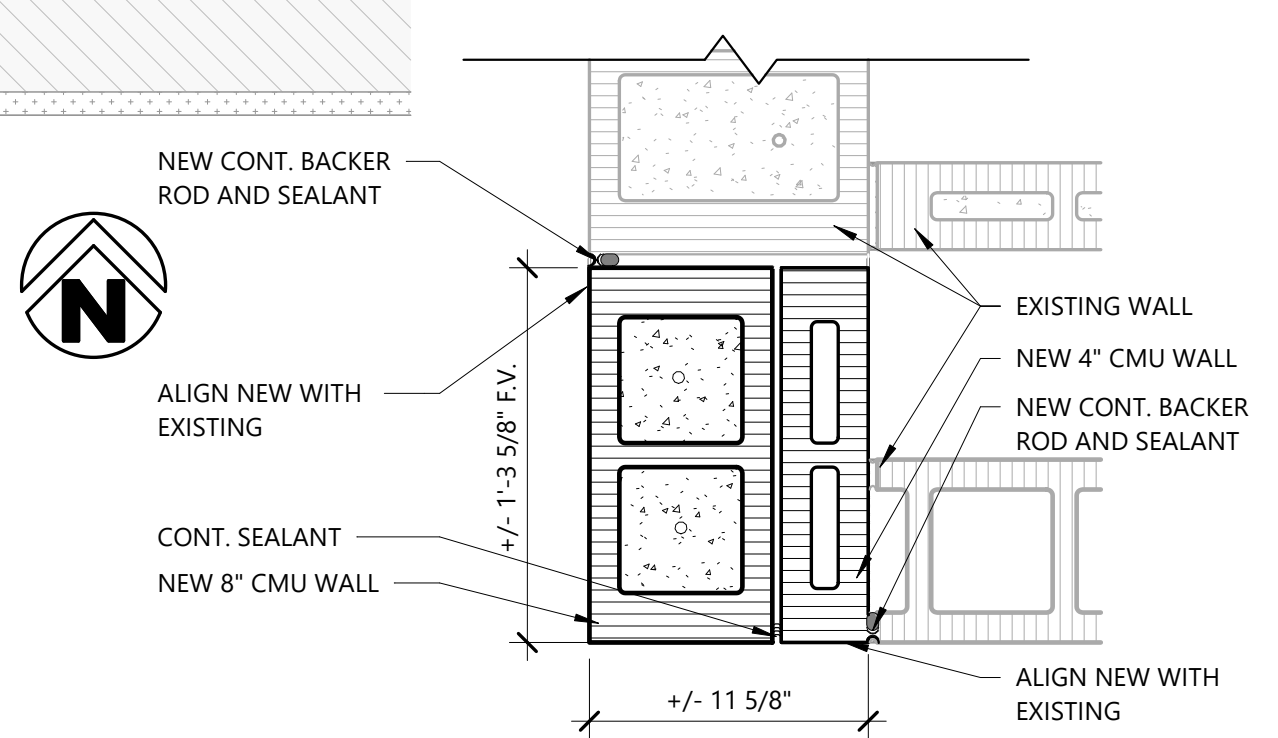
E7 Enlarged Plan Detail
1 1/2" = 1'-0" Ref. C1/ A2.1



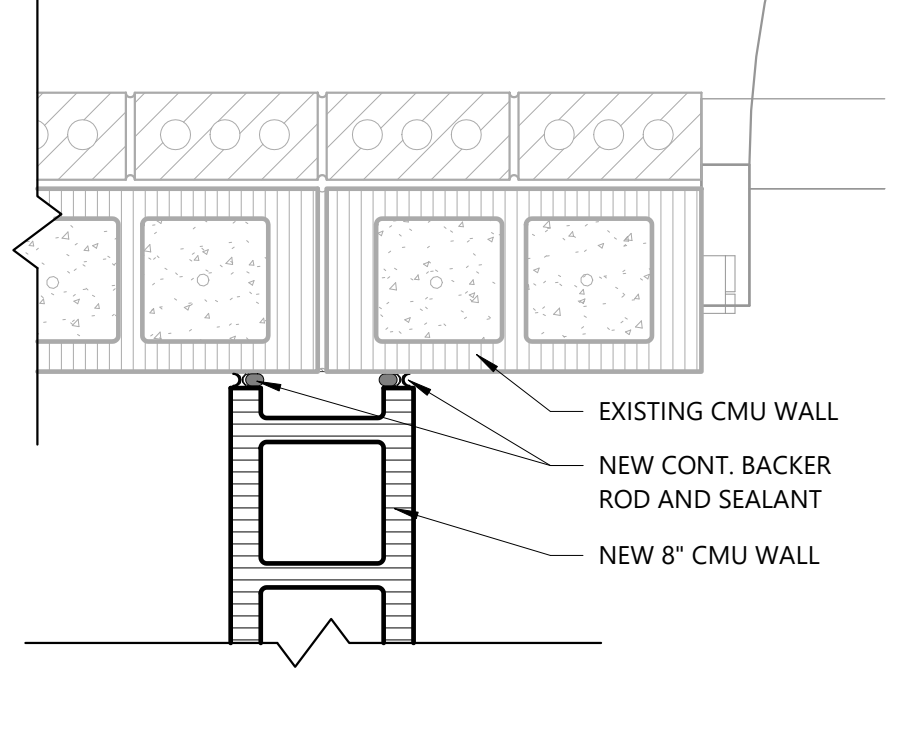
E12 Enlarged Plan Detail
1 1/2" = 1'-0" Ref. C1/ A2.1



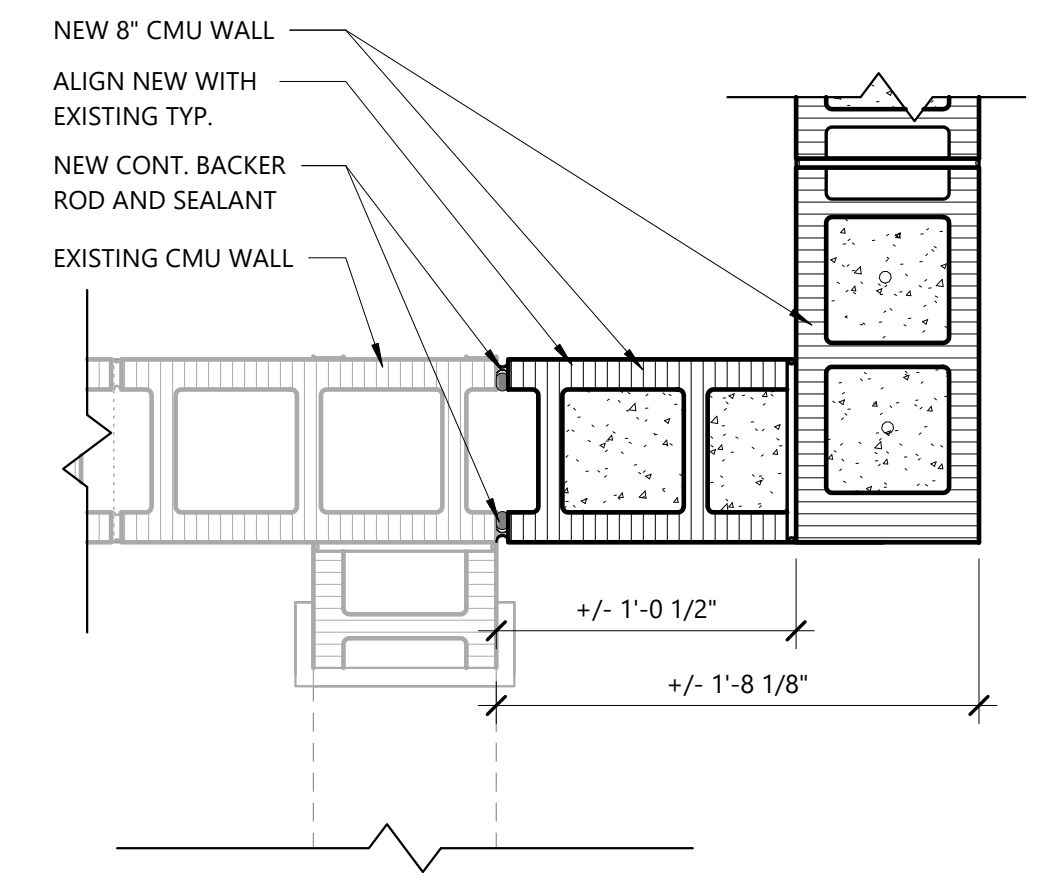
E14 Jamb Detail
1 1/2" = 1'-0" Ref. C1/ A2.1



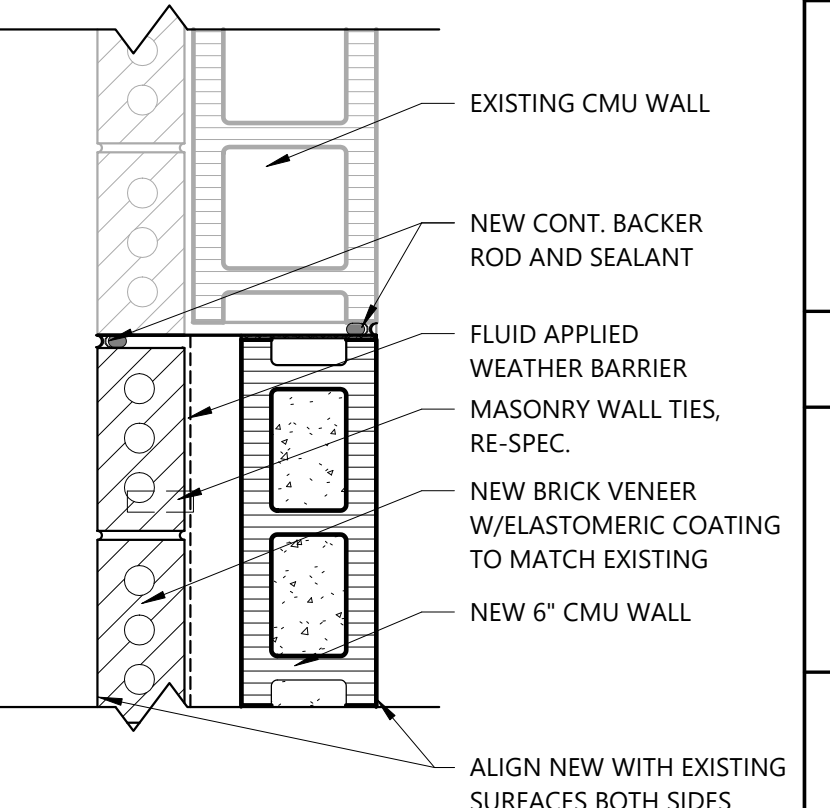
A7 Enlarged Plan Detail
1 1/2" = 1'-0" Ref. C1/ A2.1



A9 Enlarged Plan Detail
1 1/2" = 1'-0" Ref. C1/ A2.1

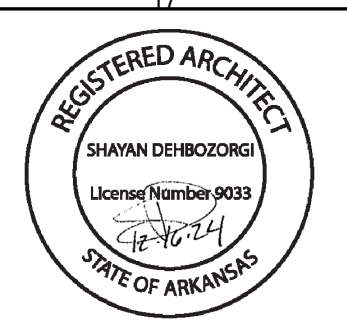


A12 Enlarged Plan Detail
1 1/2" = 1'-0" Ref. C1/ A2.1



A14 Enlarged Plan Detail
1 1/2" = 1'-0" Ref. C1/ A2.1

C1 Floor Plan
1/8" = 1'-0"



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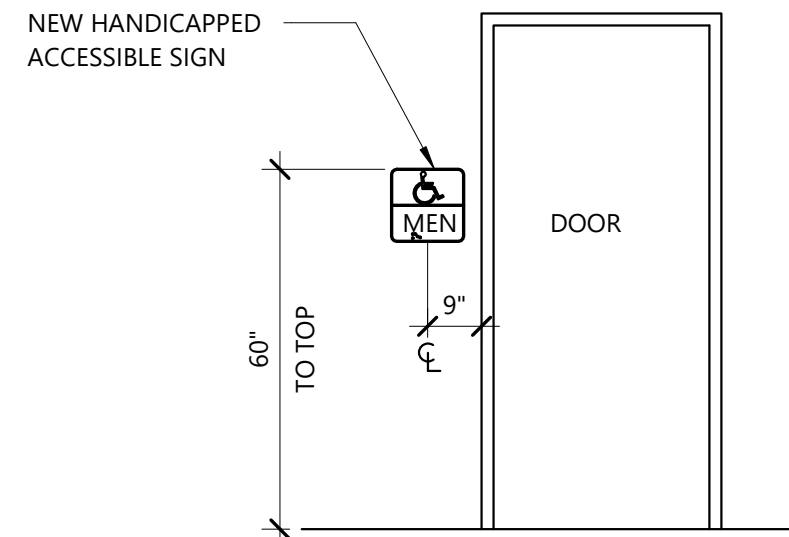
FLOOR PLAN
SHEET
A2.1

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Specialty Plan Legend

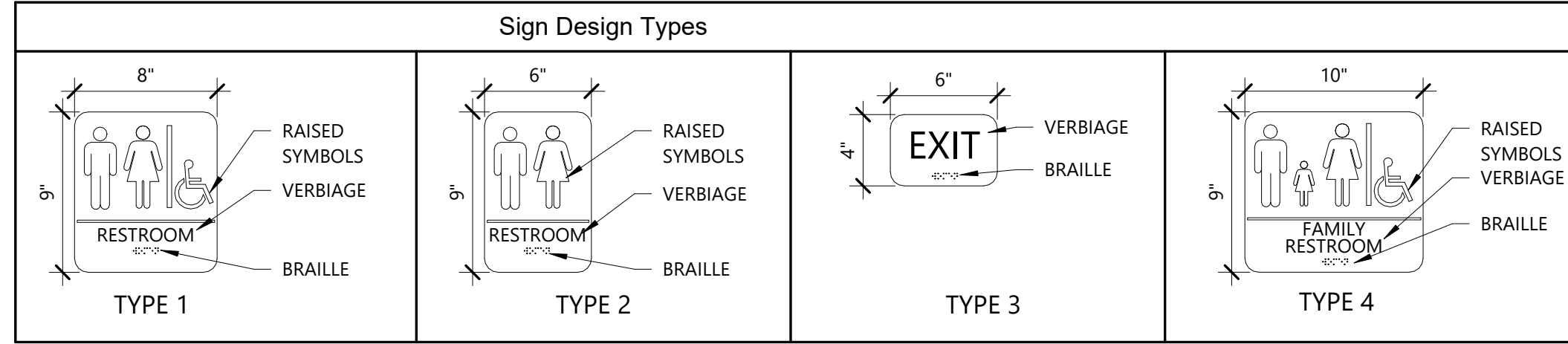
FEC	FIRE EXTINGUISHER CABINET, ALL FEC LOCATIONS TO BE NEW U.N.O
△	SIGN TYPE, RE- ROOM SIGNAGE SCHEDULE
6MB	6' MARKER BOARD, BOTTOM AT 3'-0" AFF
SB	INTERACTIVE DISPLAY BOARD (SMART BOARD), BY OWNER VENDOR CONTRACTOR
PT-1	ACCENT PAINT, RE- FINISH LEGEND
DS	SECURITY DROP SHADE

SIGN SHALL BE MOUNTED ON THE WALL ADJACENT TO LATCH SIDE OF DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" A.F.F. TO THE TOP OF SIGN. MOUNTING LOCATION FOR SIGN SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.



G1 Room Signage Detail
3/8" = 1'-0"

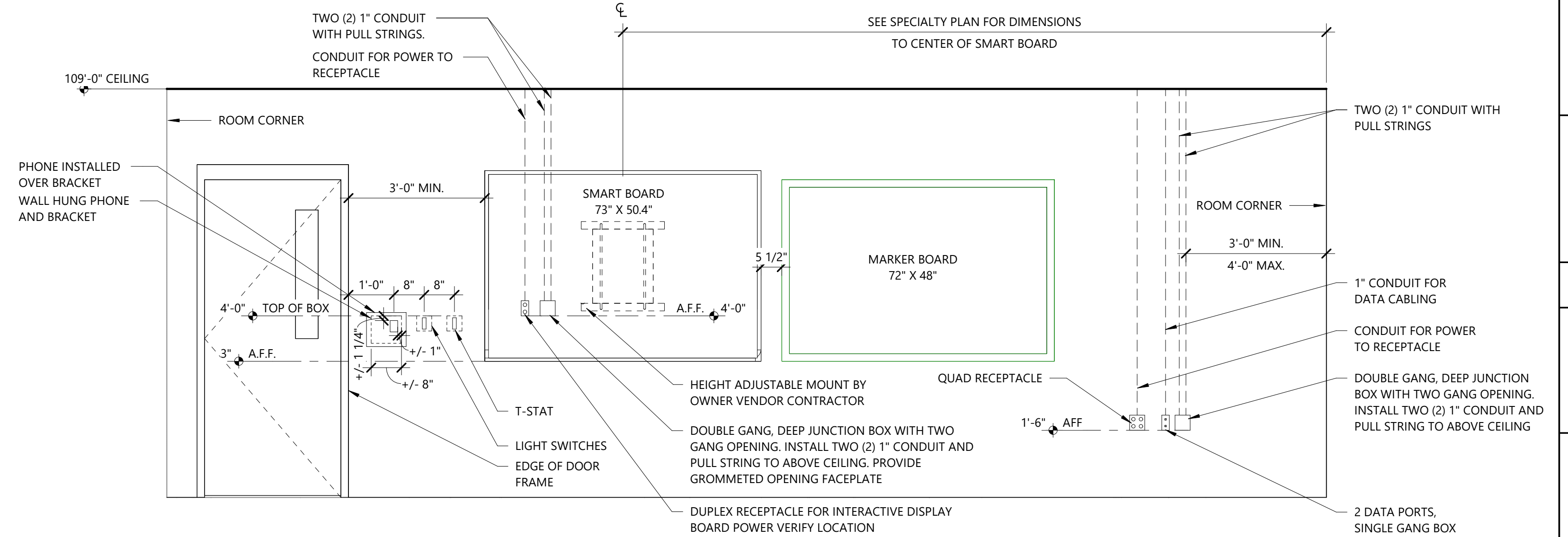
Room SIGNAGE Schedule		
ROOM NAME	DESIGN	
ACCESSIBLE RESTROOM	TYPE 1	
RESTROOM	TYPE 2	
EXIT	TYPE 3	
FAMILY RESTROOM	TYPE 4	



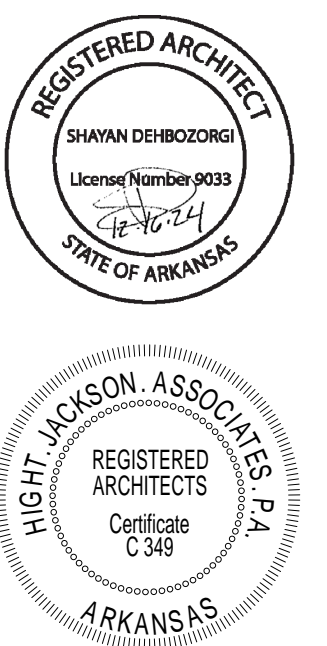
General Finish Notes

- PROVIDE ZINC TERMINATION STRIP WHERE EPOXY CREMONA FLOOR FINISH TRANSITIONS TO ANOTHER FLOOR MATERIAL.
- REFER TO REFLECTED CEILING PLANS FOR ALL CEILING HEIGHTS AND METAL STUD WITH GYPSUM BOARD HEADWALLS AND FURR DOWN LOCATIONS.
- UNLESS NOTED OTHERWISE, PAINT WALLS WITHOUT CEILINGS FULL HEIGHT TO UNDERSIDE OF DECK.
- PROVIDE 6" THICK UNFACED BATT INSULATION ABOVE ALL NEW CEILINGS
- REFER TO CODE FOOTPRINT FOR FIRE SEPARATION WALLS.
- UNLESS NOTED OR SHOWN ON DRAWINGS OTHERWISE, TERMINATE ALL NON-BEARING, NON-RATED PARTITIONS A MINIMUM 6" TO 8" ABOVE HIGHEST ADJACENT CEILINGS.
- REFER TO REFLECTED CEILING PLANS FOR WALLS THAT MUST EXTEND TO DECK.
- PROVIDE 4" RUBBER BASE AT ALL MILLWORK TOE SPACES
- REFER TO ELECTRICAL DRAWINGS FOR ALL ELECTRICAL OUTLETS AND SWITCH LOCATIONS. COORDINATE ALL ELECTRICAL OUTLETS AND SWITCHES WITH MILLWORK.
- ACCENT PAINT MARKER INDICATES SURFACE TO BE PAINTED THE ACCENT COLOR. STOP ACCENT PAINT COLOR AT THE END OF WALL OR INTERSECTION OF ADJACENT WALL.
- FLOOR MATERIAL TRANSITIONS AT DOOR WAYS SHALL HAPPEN BELOW DOOR LEAF IN CLOSED POSITION.
- ALL INTERIOR HOLLOW METAL DOORS AND FRAMES TO BE PAINTED **PT-4**, EXTERIOR DOOR AND FRAMES TO BE PAINTED **PT-5**
- REFER TO SPECIALTY PLANS FOR DETAILED FINISH INFORMATION, COLORS, & ACCENT WALLS NOT FOUND IN FINISH SCHEDULE.
- PROVIDE CLEAR CONCRETE SEALER AT ALL EXPOSED CONCRETE FLOORS
- COUNTERTOP TO BE **SS-1** AT MILLWORK LOCATIONS WITH SINK, UNLESS NOTED OTHERWISE. REFER TO MILLWORK ELEVATIONS AND SECTIONS.
- AT FIRE RATED WALLS WHERE FIRE CAULK WILL BE EXPOSED, BACKSET FIRE CAULK AND CAULK OVER WITH COLOR MATCH CAULK.
- PAINT ROOF HATCH AND ROOF HATCH ACCESS LADDER **PT-4**
- PROVIDE **HPL-1** AT EXPOSED SHELVING
- AT EXISTING CMU WALLS WITH MORTAR JOINTS STRUCK FLUSH, MATCH JOINT TYPE AT ANY INFILLED CMU. FILL VOIDS IN EXISTING MORTAR JOINTS FOR SMOOTH FINISH PRIOR TO BLOCK FILL AND PAINT APPLICATION.

Finish Legend		
BASE		
EB-1	4" EPOXY BASE	DESCO EPOXY BASE TO MATCH EF-1
NB	NO BASE	--
RB	RUBBER BASE	TARKETT/JOHNSONITE - #29 MOON ROCK
CEILING		
AC-1	2' X 2' ACOUSTICAL CEILING TILE	SUSPENDED TYPICAL ACOUSTICAL CEILING
ES	EXPOSED STRUCTURE	NO PAINT
ESP-X	EXPOSED STRUCTURE PAINTED	"X" REPRESENTS PAINT NUMBER FROM WALL COLOR LISTED BELOW, DRY FALL
PT-X	PAINTED GYPSUM BOARD	"X" REPRESENTS PAINT NUMBER FROM WALL COLOR LISTED BELOW, DRY FALL
FLOORS		
EF-1	EPOXY FLOORING	DESCO CREMONA SERIES, COLOR - WHITE WATER
EF-2	EPOXY FLOORING	DESCO GRANITE SERIES, COLOR - LINKS
NW	NO WORK	--
SC	SEALED CONCRETE	--
MILLWORK		
HPL-1	PLASTIC LAMINATE OPEN SHELVING	MANUF: WILSONART COLOR: 4886-38 PEARL
SS-1	SOLID SURFACE COUNTERTOP	MANUF: WILSONART COLOR: 9201 G5 HOT STONE
TFL-1	THERMALLY FUSED LAMINATE (MELAMINE) CABINET BODY	MANUF: WILSONART COLOR: 4886-38 PEARL
OTHER		
DOORS	WOOD DOORS	BIRCH: CLEAR
WALLS		
EP-X	EPOXY PAINT	"X" REPRESENTS PAINT NUMBER FROM THE PT WALL COLOR LISTED BELOW
FRP	FIBERGLASS REINFORCED PANEL	COLOR TBD
PT-1	PAINT (FIELD)	MANUF: SHERWIN WILLIAMS COLOR: SW 7029 AGREABLE GRAY
PT-2	PAINT (ACCENT)	MANUF: SHERWIN WILLIAMS COLOR: SW 6177 SOFTENED GREEN
PT-3	PAINT (CEILING)	MANUF: SHERWIN WILLIAMS COLOR: SW 6203 SPARE WHITE
PT-4	PAINT (DOOR FRAME, ROOF HATCH AND LADDER)	MANUF: SHERWIN WILLIAMS COLOR: SW 7019 GUANLET GRAY
PT-5	PAINT (EXTERIOR DOOR AND DOOR FRAME)	MANUF: SHERWIN WILLIAMS COLOR: SW 7069 IRON ORE (VERIFY MATCH TO EXISTING BRONZE STOREFRONT)



A9 Interior Elevation - Typical Classroom
1/2" = 1'-0"



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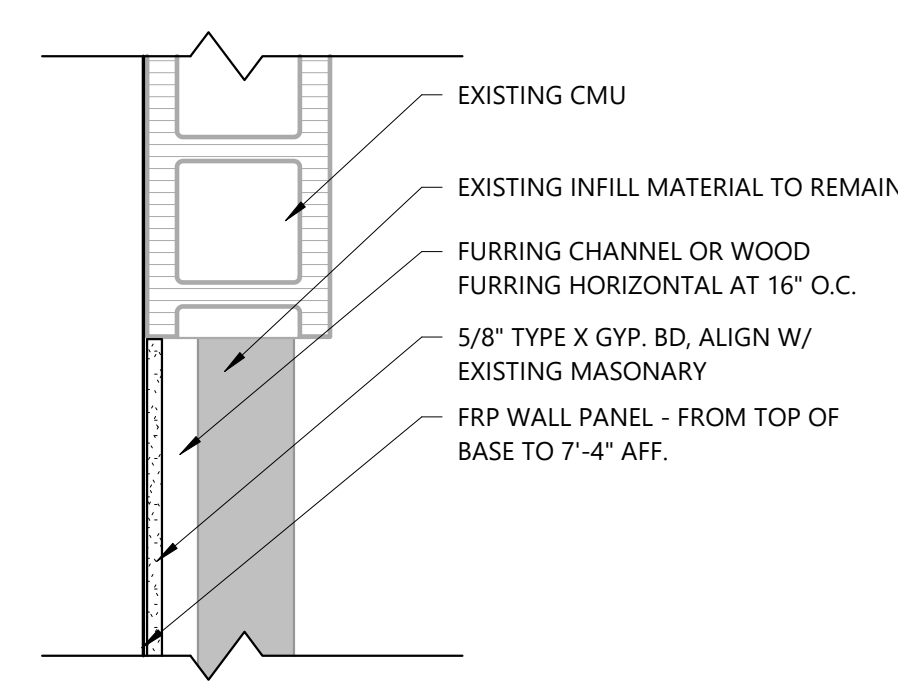
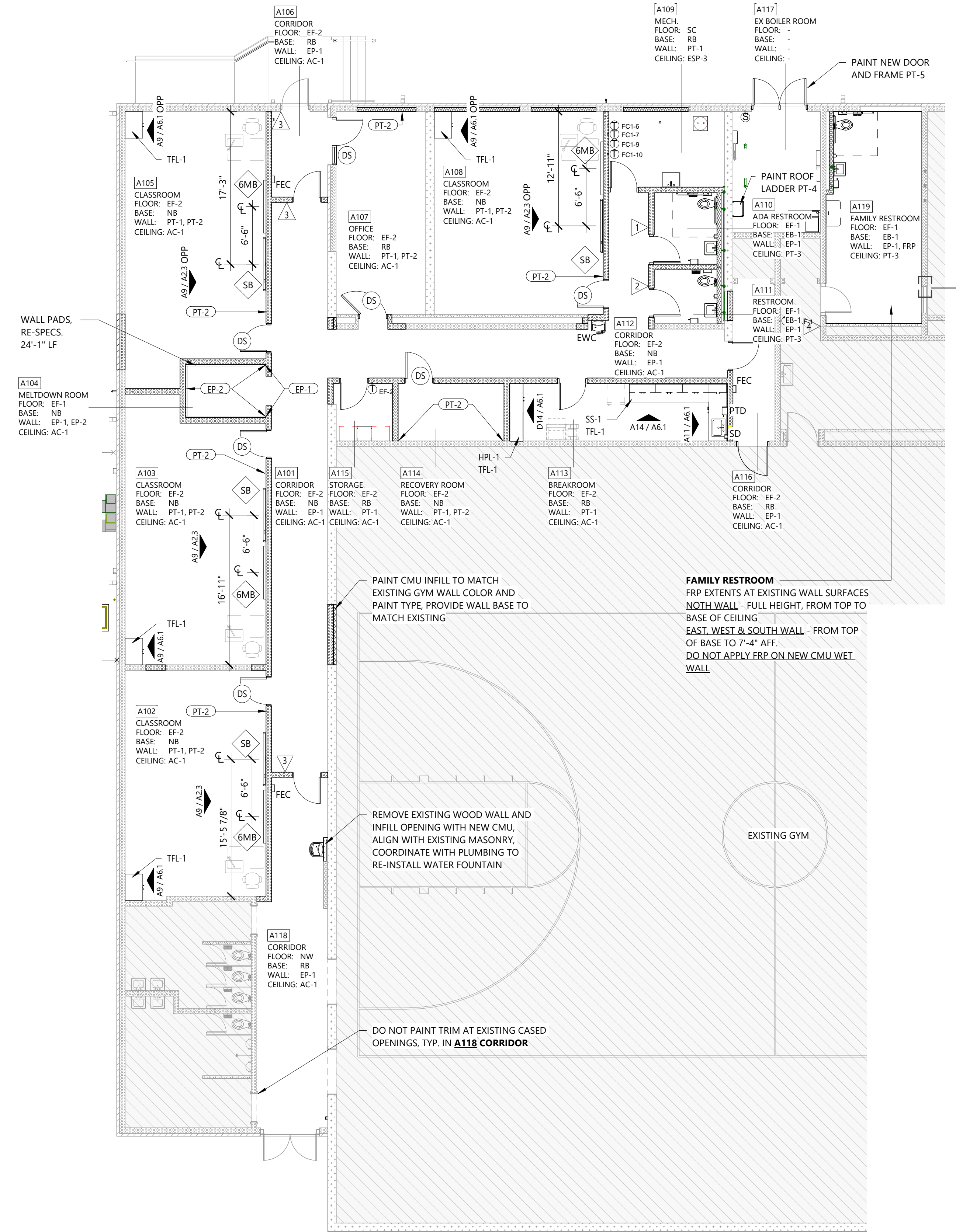
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FINISH SCHEDULE / NOTES / PLAN DETAILS

SHEET

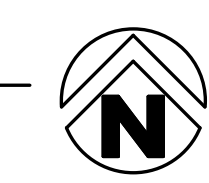
A2.3

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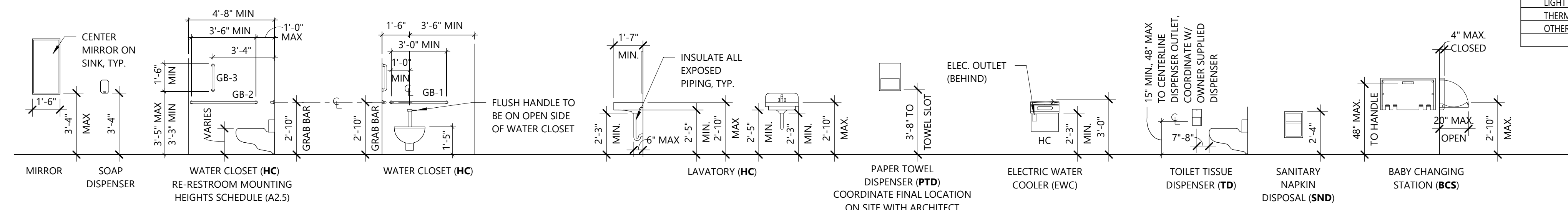


A7 Enlarged Plan Detail
1 1/2" = 1'-0" Ref: C1/A2.1

A10 Specialty Plan
1/8" = 1'-0"



Typical A.D.A. Reference Diagram



GENERAL NOTES:
 1. PROVIDE INSULATION AT ALL EXPOSED HOT WATER AND DRAIN PIPES.
 ABBREVIATIONS:
 GB-1: 3'-0" GRAB BAR
 GB-2: 3'-6" GRAB BAR
 GB-3: 18" GRAB BAR
 HC: A.D.A. ACCESSIBLE HEIGHT

Schedule of Mounting Heights

FIXTURE or ACCESSORY	DIM	REMARKS
FIRE SAFETY		
FIRE EXTINGUISHER	48"	TO HANDLE
SIGNAGE		
SIGNAGE (UNO)	60"	TO TOP
ELECTRICAL CONTROLS		
ELECTRICAL RECEPTACLE (UNO)	18"	TO CENTERLINE
ELECT RECEPTACLE ABOVE COUNTER	44"	TO CENTERLINE
LIGHT SWITCH (UNO)	48"	TO TOP
THERMOSTAT (UNO)	48"	TO TOP
OTHER CONTROL DEVICES (UNO)	48"	TO TOP

UNO - "UNLESS NOTED OTHERWISE"

Legend

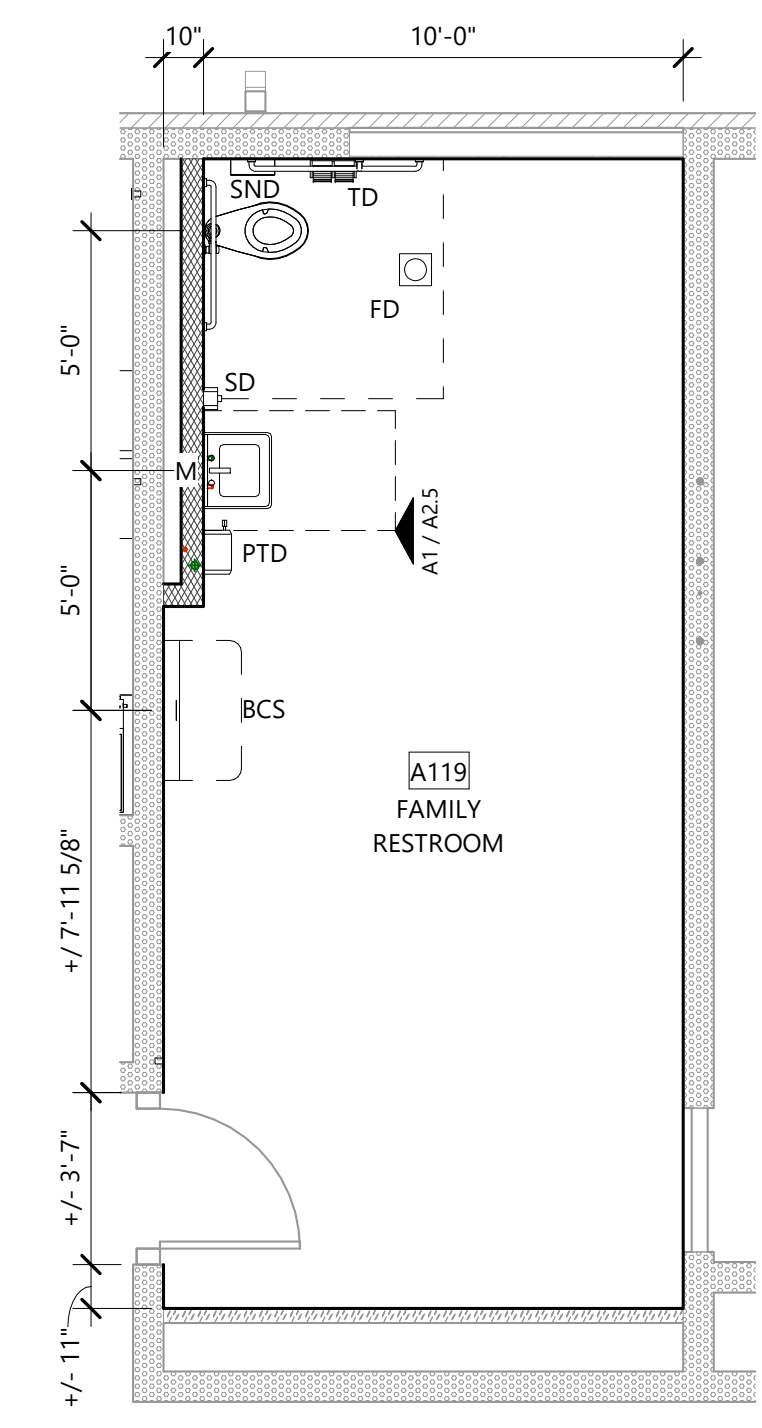
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
GB	GRAB BAR
HC	HANDICAP
PTD	PAPER TOWEL DISPENSER
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
TD	TOILET TISSUE DISPENSER
BCS	BEABY CHANGING STATION

Toilet Accessory Notes

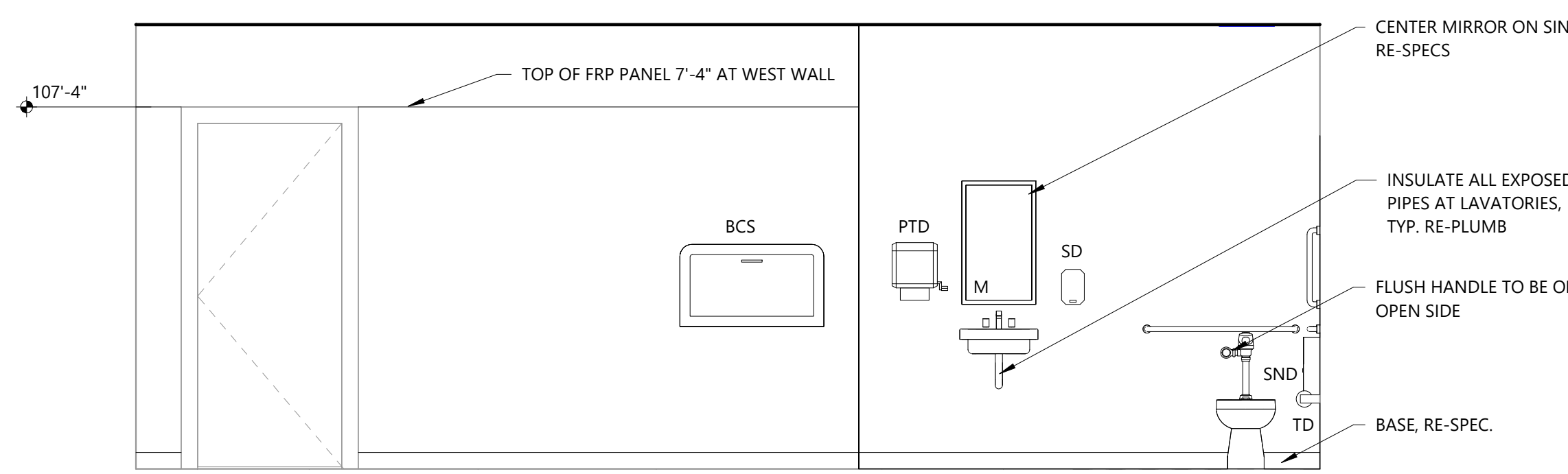
- PROVIDE MIRRORS ABOVE ALL RESTROOM LAVATORIES. MIRROR TO BE 18" X 36" FRAMED MIRRORS U.N.O., RE-- SPECS.
- REFER TO SPECIFICATION SECTION 10 28 13 FOR TOILET ACCESSORIES FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR
- ALL PLUMBING FIXTURE MOUNTING HEIGHTS AND CLEARANCES NOTED TO BE ACCESSIBLE SHALL CONFORM WITH ALL AMERICANS WITH DISABILITIES ACT REGULATIONS. ALL CONFLICTS BETWEEN DRAWINGS AND INSTALLATION SHALL BE REPORTED TO ARCHITECT PRIOR TO INSTALLATION

Schedule of Special Mounting Heights / Location

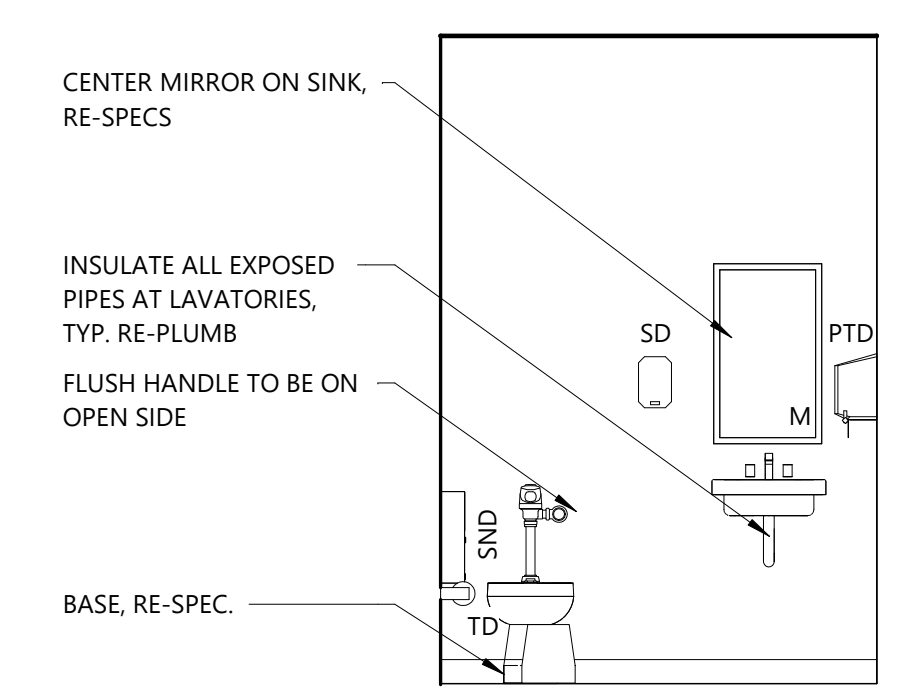
AGE GROUP	ROOM #	STANDARD / ACCESSIBLE (HC)	WATER CLOSET (½ FROM WALL)	TOILET SEAT HEIGHT	GRAB BAR HEIGHT	TISSUE DISPENSER HEIGHT	LAVATORY/ WASH FOUNTAIN (TO RIM)	LAVATORY KNEE CLEARANCE	MIRROR (BOT. EDGE)	PAPER TOWEL DISPENSER	SANITARY NAPKIN DISPOSAL	ELECTRIC WATER COOLER	SOAP DISPENSER
KINDERGARTEN - 2 ND GRADE (AGES 5-8) AND 3 RD TO 5 TH	A110, A111	STANDARD	15"	15"	N/A	17"	31"	24"	37"	40"	21"	N/A	34"
		HC	15"	15"	25"	14"-17"	31"	24"	37"	40"	21"	36"	34"
ADULT	A119	HC	18"	17"	34"	14"-19"	34"	27"	40"	44"	28"	48"	40"



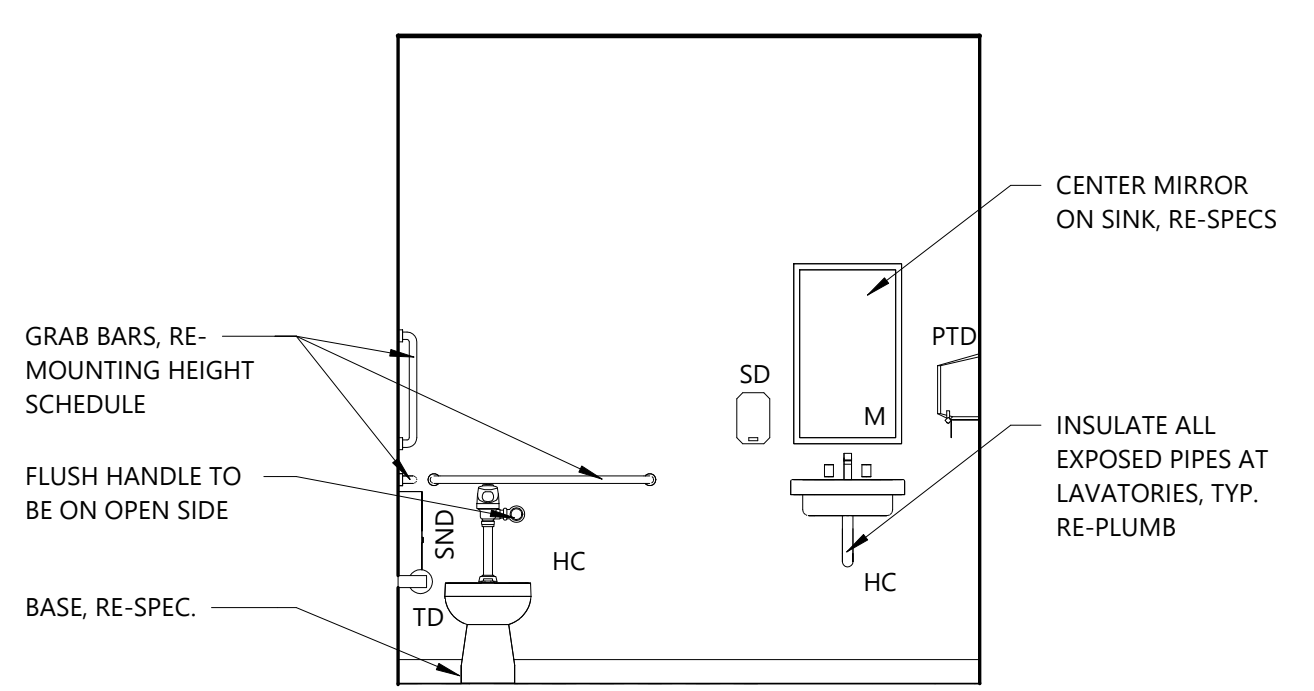
D14 Enlarged Restroom Elevation
 1/4" = 1'-0" Ref: C1/ A2.1



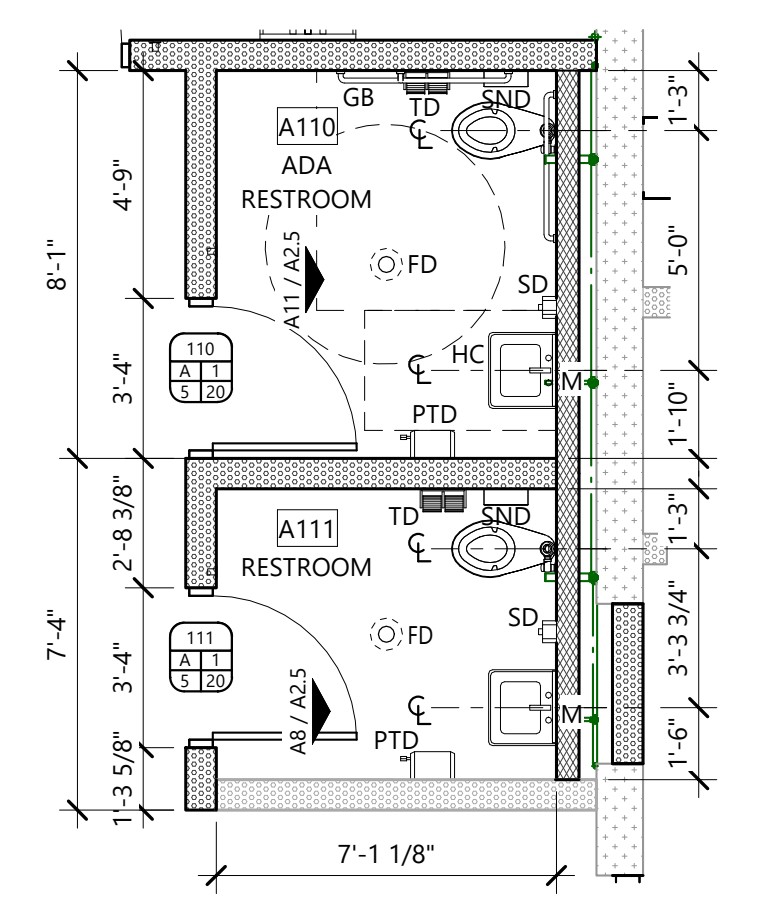
A1 Restroom Elevation
 3/8" = 1'-0" Ref: D14/ A2.5



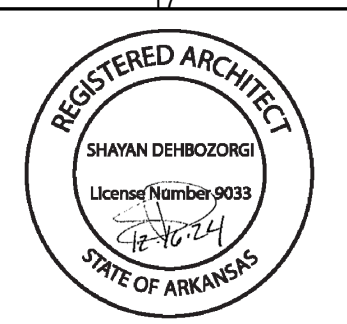
A8 Restroom Elevation
 3/8" = 1'-0" Ref: A14/ A2.5



A11 Restroom Elevation
 3/8" = 1'-0" Ref: A14/ A2.5



A14 Enlarged Restroom Plan
 1/4" = 1'-0" Ref: C1/ A2.1

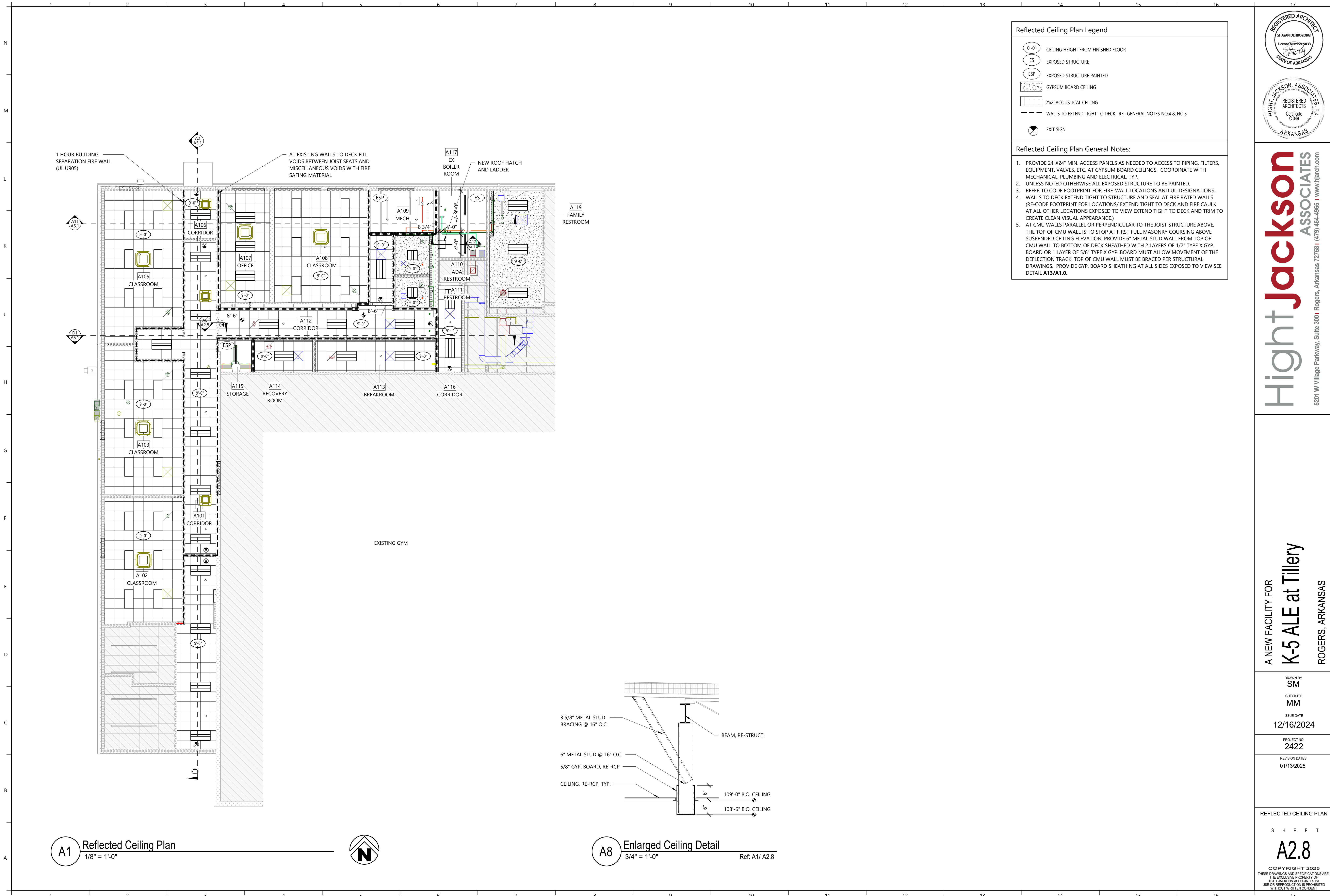


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A NEW FACILITY FOR
K-5 ALE at Tillery
 ROGERS, ARKANSAS

DRAWN BY: SM
 CHECK BY: MM
 ISSUE DATE: 12/16/2024
 PROJECT NO: 2422
 REVISION DATES: 01/13/2025

ENLARGED RESTROOM PLANS
 SHEET
A2.5
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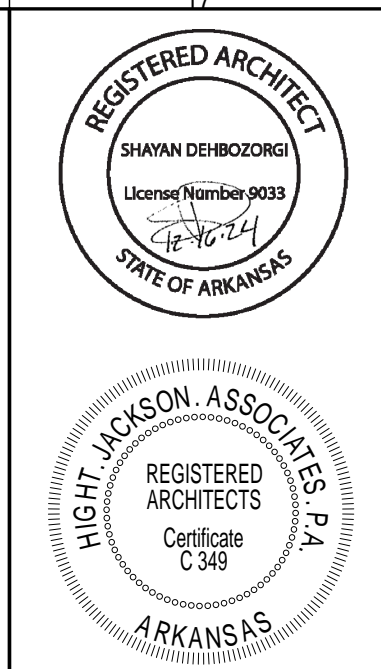
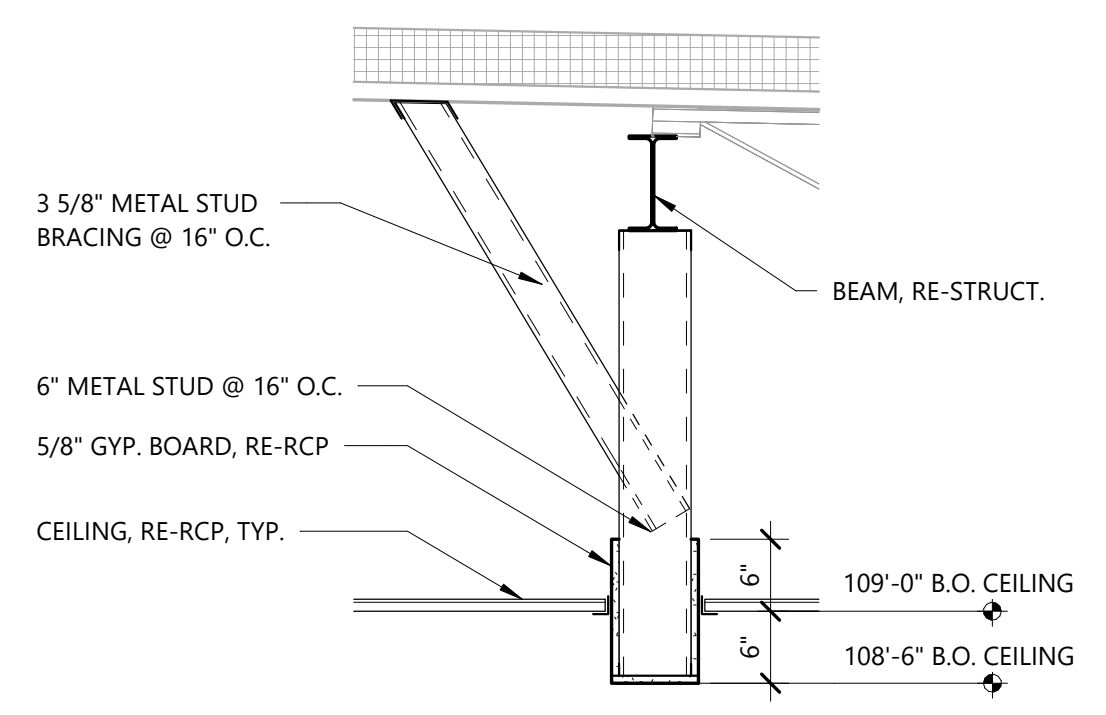
A1 Reflected Ceiling Plan
1/8" = 1'-0"

A8 Enlarged Ceiling Detail
3/4" = 1'-0" Ref: A1/ A2.8

Reflected Ceiling Plan Legend

○ 0'-0"	CEILING HEIGHT FROM FINISHED FLOOR
○ ES	EXPOSED STRUCTURE
○ ESP	EXPOSED STRUCTURE PAINTED
[Pattern]	GYPSUM BOARD CEILING
[Pattern]	2x2' ACOUSTICAL CEILING
---	WALLS TO EXTEND TIGHT TO DECK. RE--GENERAL NOTES NO.4 & NO.5
⊗	EXIT SIGN

- Reflected Ceiling Plan General Notes:**
1. PROVIDE 24"x24" MIN. ACCESS PANELS AS NEEDED TO ACCESS TO PIPING, FILTERS, EQUIPMENT, VALVES, ETC. AT GYPSUM BOARD CEILINGS. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL, TYP.
 2. UNLESS NOTED OTHERWISE ALL EXPOSED STRUCTURE TO BE PAINTED.
 3. REFER TO CODE FOOTPRINT FOR FIRE-WALL LOCATIONS AND UL-DESIGNATIONS.
 4. WALLS TO DECK EXTEND TIGHT TO STRUCTURE AND SEAL AT FIRE RATED WALLS (RE-CODE FOOTPRINT FOR LOCATIONS/ EXTEND TIGHT TO DECK AND FIRE CAULK AT ALL OTHER LOCATIONS EXPOSED TO VIEW EXTEND TIGHT TO DECK AND TRIM TO CREATE CLEAN VISUAL APPEARANCE.)
 5. AT CMU WALLS PARALLEL OR PERPENDICULAR TO THE JOIST STRUCTURE ABOVE, THE TOP OF CMU WALL IS TO STOP AT FIRST FULL MASONRY COURSE ABOVE SUSPENDED CEILING ELEVATION, PROVIDE 6" METAL STUD WALL FROM TOP OF CMU WALL TO BOTTOM OF DECK SHEATHED WITH 2 LAYERS OF 1/2" TYPE X GYP. BOARD OR 1 LAYER OF 5/8" TYPE X GYP. BOARD MUST ALLOW MOVEMENT OF THE DEFLECTION TRACK, TOP OF CMU WALL MUST BE BRACED PER STRUCTURAL DRAWINGS. PROVIDE GYP. BOARD SHEATHING AT ALL SIDES EXPOSED TO VIEW SEE DETAIL **A13/A1.0**.



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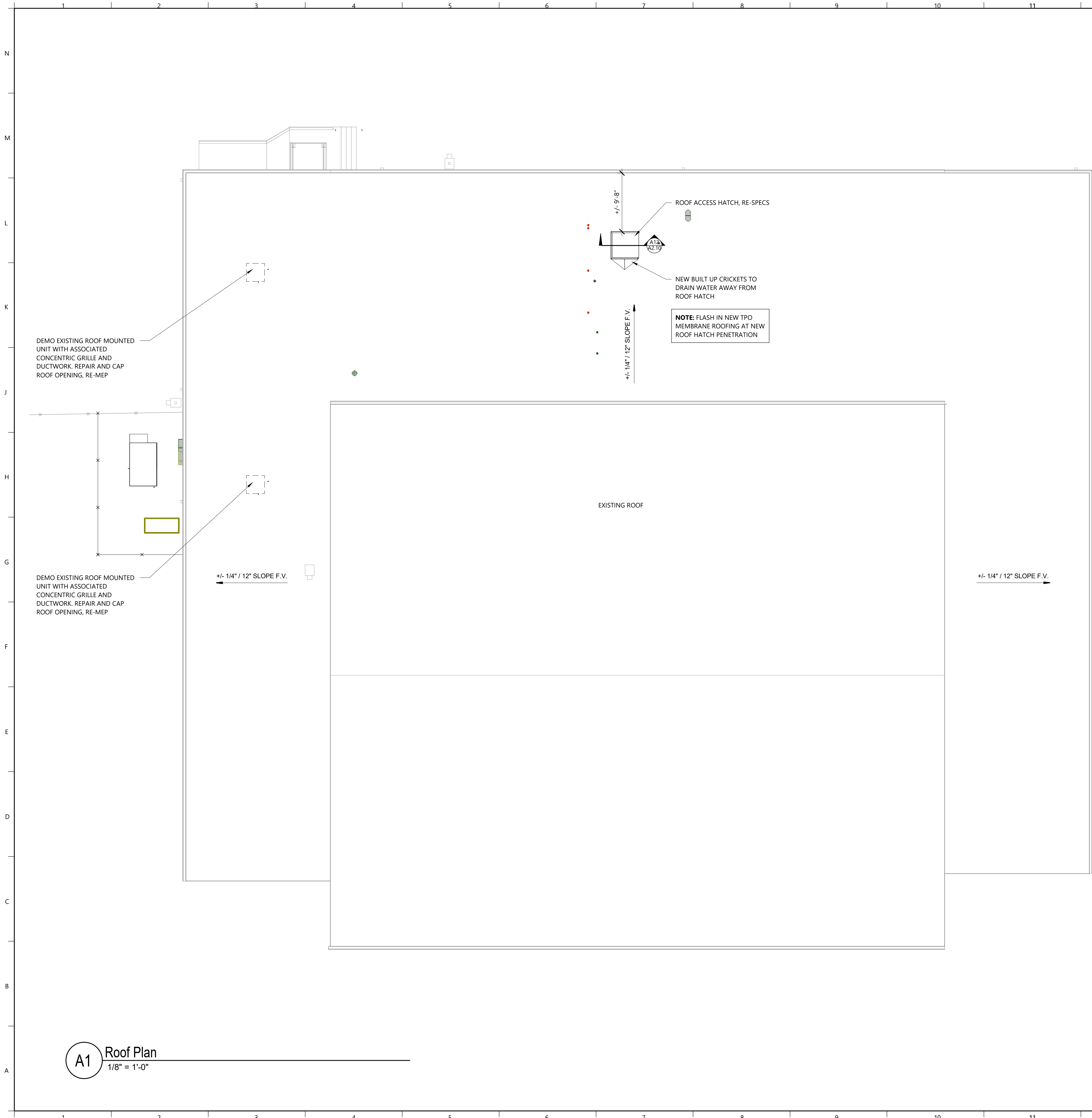
PROJECT NO:
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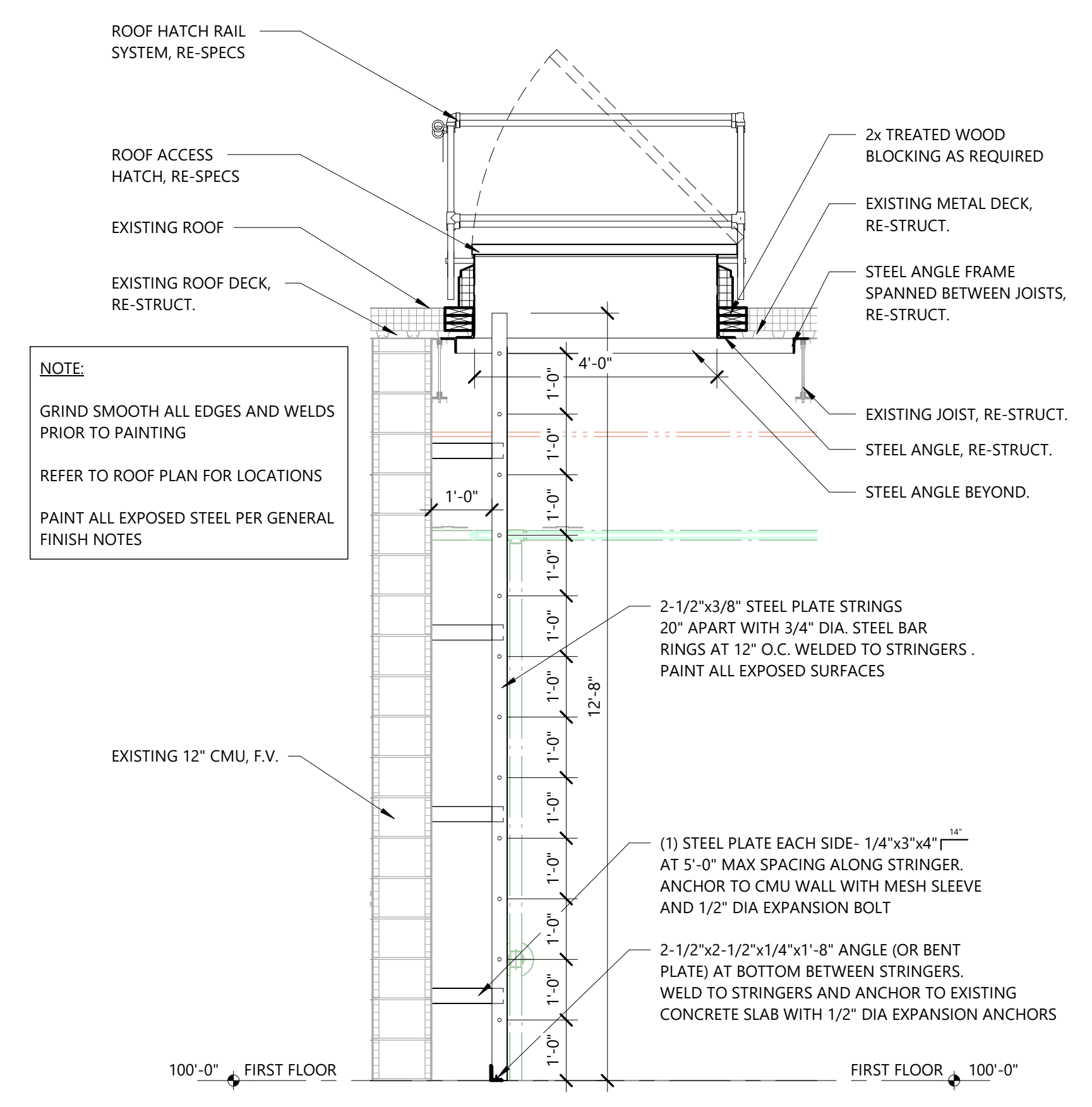
REFLECTED CEILING PLAN

S H E E T
A2.8

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A1 Roof Plan
1/8" = 1'-0"



NOTE:
GRIND SMOOTH ALL EDGES AND WELDS PRIOR TO PAINTING
REFER TO ROOF PLAN FOR LOCATIONS
PAINT ALL EXPOSED STEEL PER GENERAL FINISH NOTES

A12 Wall Section
1/2" = 1'-0" Ref: C1/ A2.1



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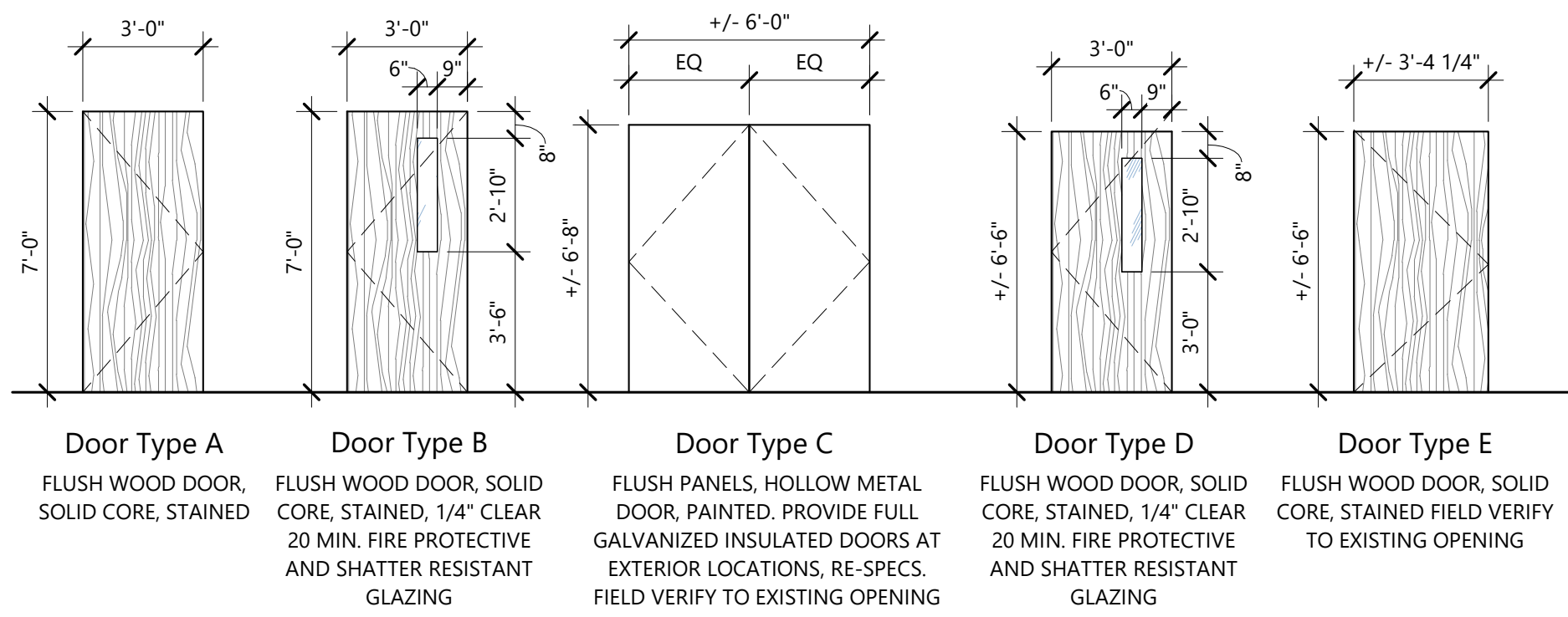
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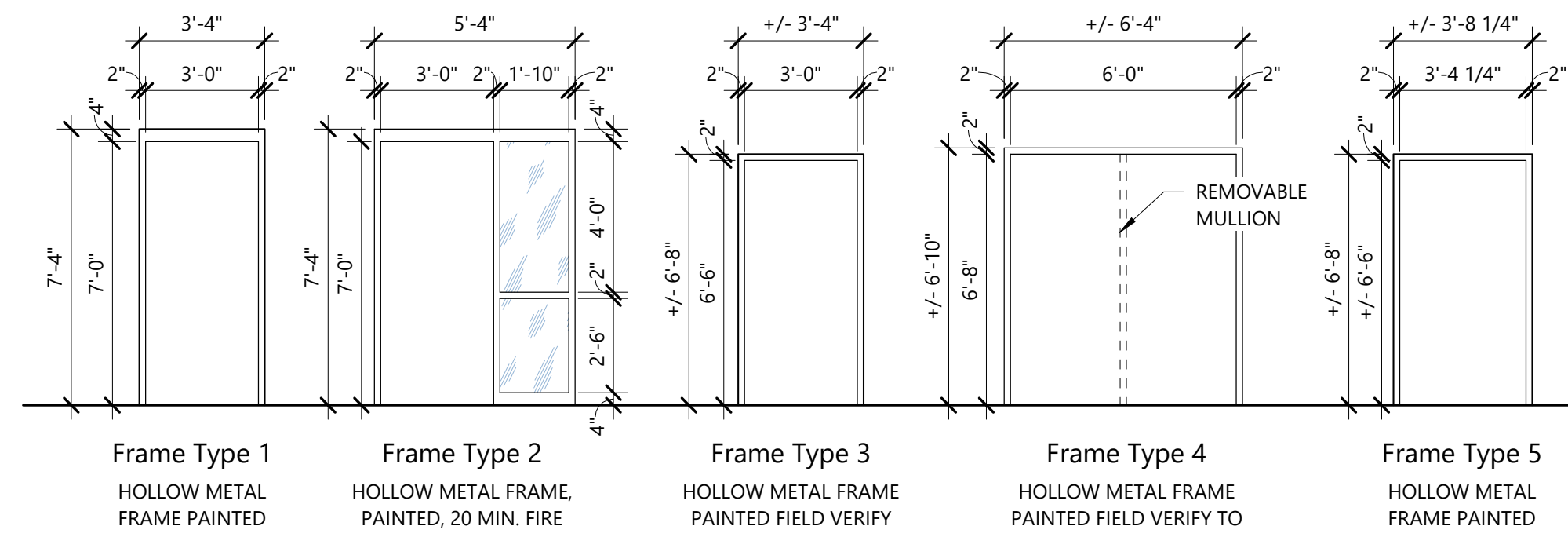
PROJECT NO: 2422
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ROOF PLAN & DETAILS
SHEET
A2.10
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Door Types



Door Frame Types

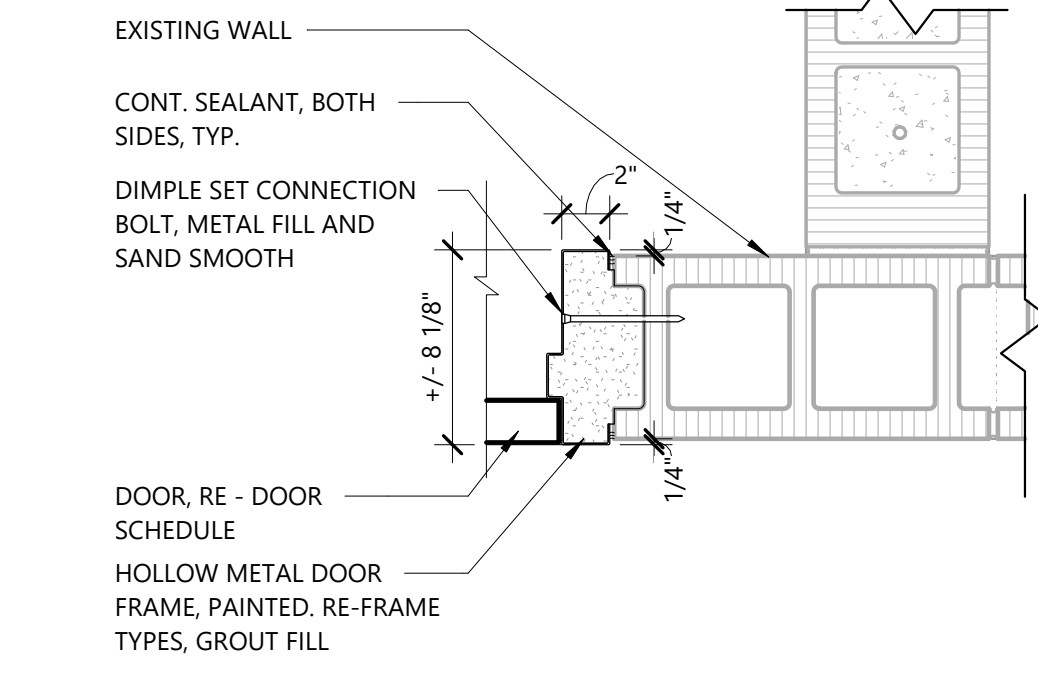


Door Schedule				
MARK	DETAILS			NOTES
	HEAD	JAMB	SILL	
101	A14/A3.1	A12/A3.1		
102	A14/A3.1	A12/A3.1		
103	A14/A3.1	A12/A3.1		
105	A14/A3.1	A12/A3.1		
106	A14/A3.1	A12/A3.1		
107A	A6/A3.1, A9/A3.1	A4/A3.1, D4/A3.1		
107B	D14/A3.1	D7/A3.1, D11/A3.1		NON-STANDARD FRAME/DOOR SIZE
108	A14/A3.1	A12/A3.1		
109	A14/A3.1	A12/A3.1, L8/A2.1		
110	A14/A3.1	A12/A3.1, E14/A2.1		
111	A14/A3.1	A12/A3.1		
112	A14/A3.1	A12/A3.1, H8/A2.1		
113	A14/A3.1	A12/A3.1		
114	A14/A3.1	A12/A3.1		
115	A14/A3.1	A12/A3.1		
116	H4/A3.1	D1/A3.1, H1/A3.1		NON-STANDARD FRAME/DOOR SIZE
117	H9/A3.1	H7/A3.1	A1/A3.1	NON-STANDARD FRAME/DOOR SIZE

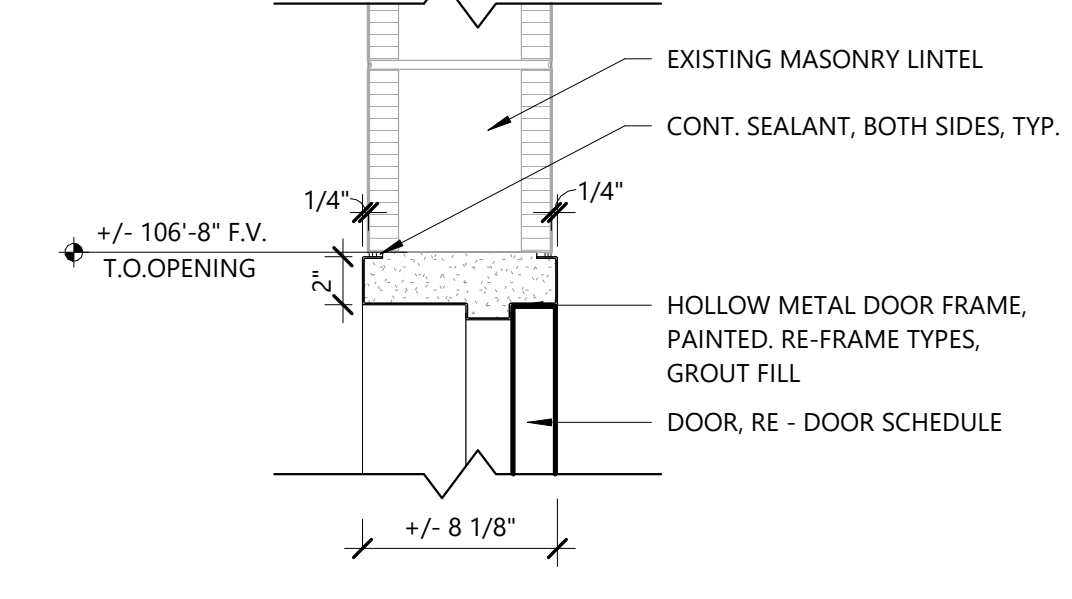
Door Frame & Window Frame General Notes

- 1 PROVIDE REINFORCING IN HOLLOW METAL DOOR AND FRAMES AS REQUIRED TO PROPERLY SECURE HARDWARE, RE- SPECS
- 2 PROVIDE SILENCERS FOR ALL HOLLOW METAL DOOR FRAMES UNLESS WEATHER STRIPPING IS PROVIDED
- 3 REFER TO DOOR TAG AND SPECIFICATION SECTION 08 71 00 FOR HARDWARE SETS AT HOLLOW METAL AND WOOD DOORS
- 4 DOOR LEAVES ARE STANDARD 3'-0" WIDE AND 7'-0" HIGH. REFER TO FLOOR PLAN DIMENSIONS AND NOTES ON DOOR SCHEDULE FOR EXCEPTIONS
- 5 DETAILS TO NOT INDICATE DOOR SWING. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR SWING
- 6 CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF FRAME THROAT DEPTHS WITH WALL THICKNESS PRIOR TO ORDERING FRAMES
- 7 COORDINATE MOUNTING HEIGHTS OF LATCHES, EXIT DEVICES AND OTHER HARDWARE ITEMS WITH DOOR LITE DIMENSIONS
- 8 FOR ALL DOORS UP TO 3'-0" WIDE- LEAFS ARE TO HAVE 3 HINGES ON EACH LEAF UNLESS NOTED OTHERWISE LEAF, UNLESS NOTED OTHERWISE
- 9 ALL CLOSERS TO HAVE PARALLEL ARMS, UNLESS NOTED OTHERWISE OR INSTALLATION REQUIRES ALTERNATE ARM TYPE
- 10 PROVIDE FIRE GASKET AROUND PERIMETER OF ALL FIRE RATED DOORS IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE
- 11 VERIFY LINTEL CONDITIONS WITH STRUCTURAL LINTEL PLAN
- 12 PROVIDE CONTINUOUS HINGES ON ALL CORRIDOR DOOR (101,106,112, 116)

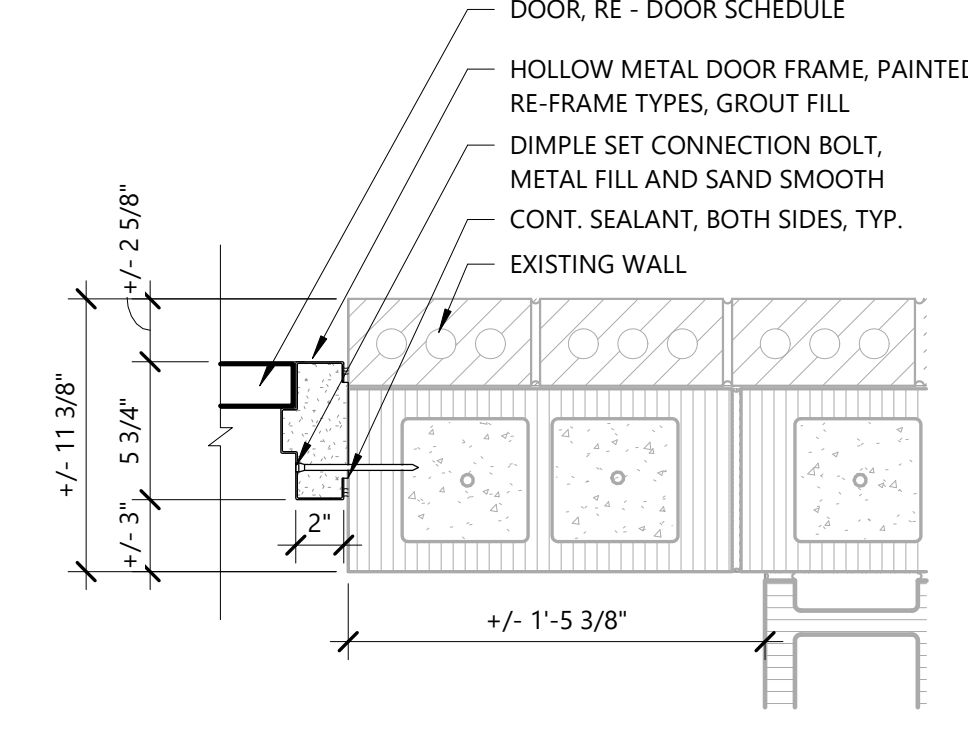
H1 Jamb Detail
1 1/2" = 1'-0"



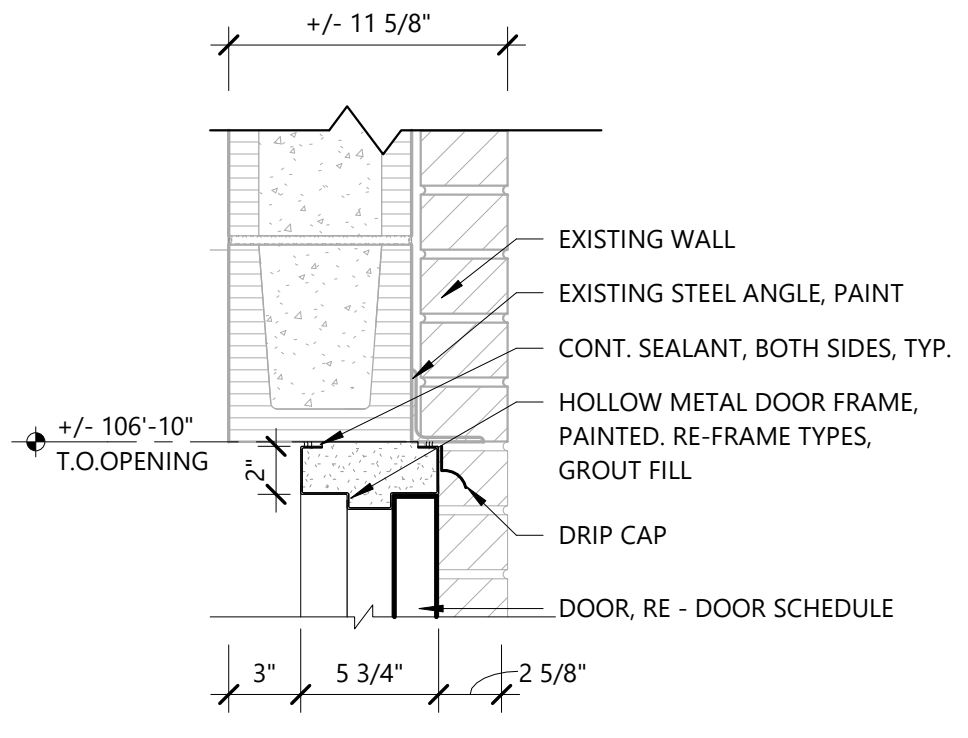
H4 Head Detail
1 1/2" = 1'-0"



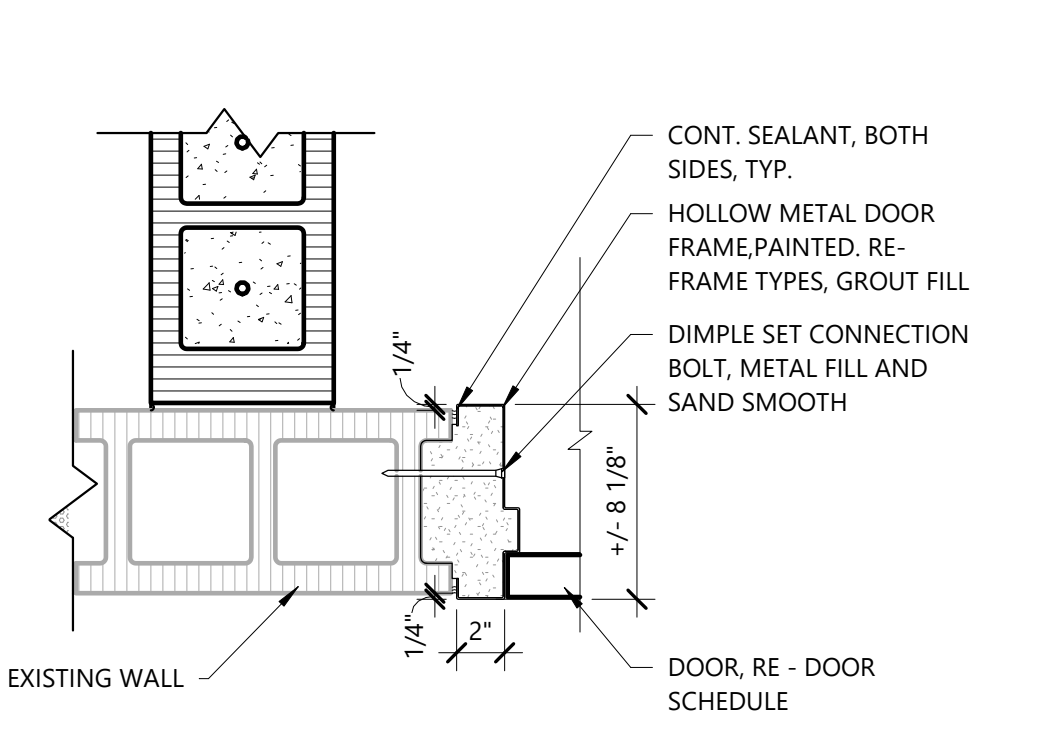
H7 Jamb Detail
1 1/2" = 1'-0"



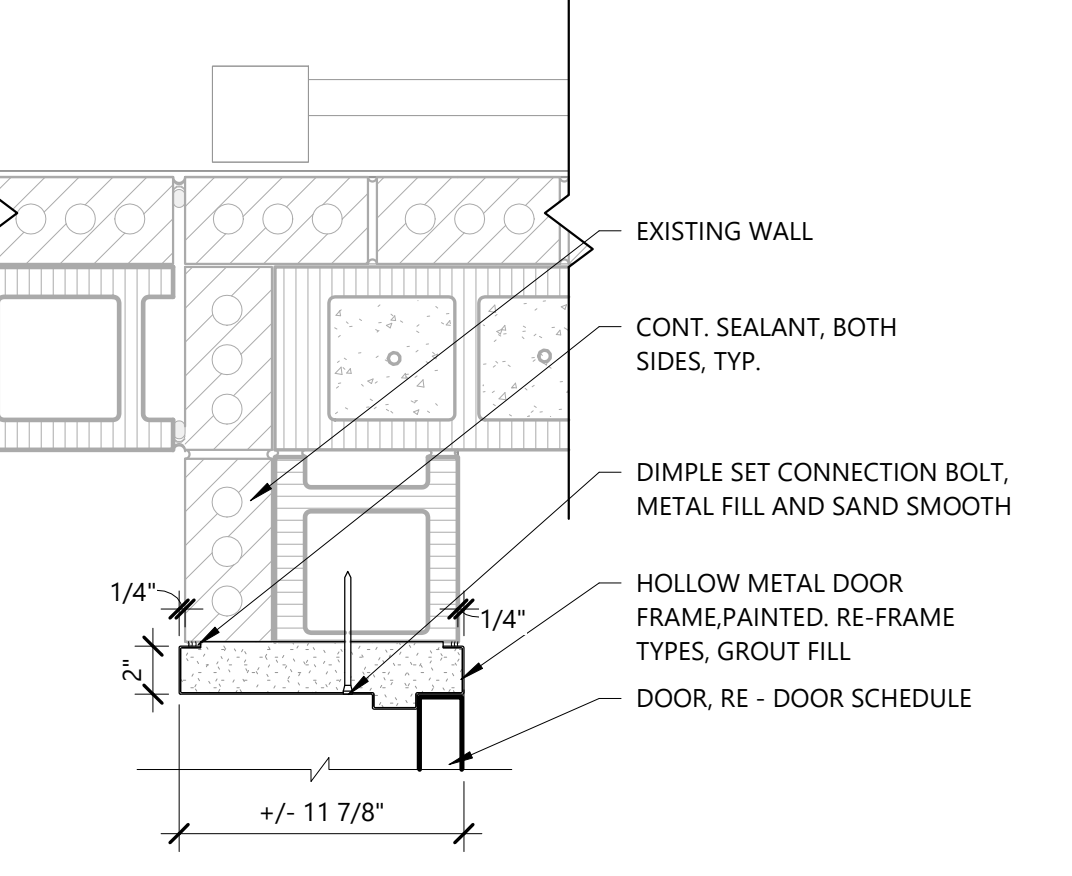
H9 Head Detail
1 1/2" = 1'-0"



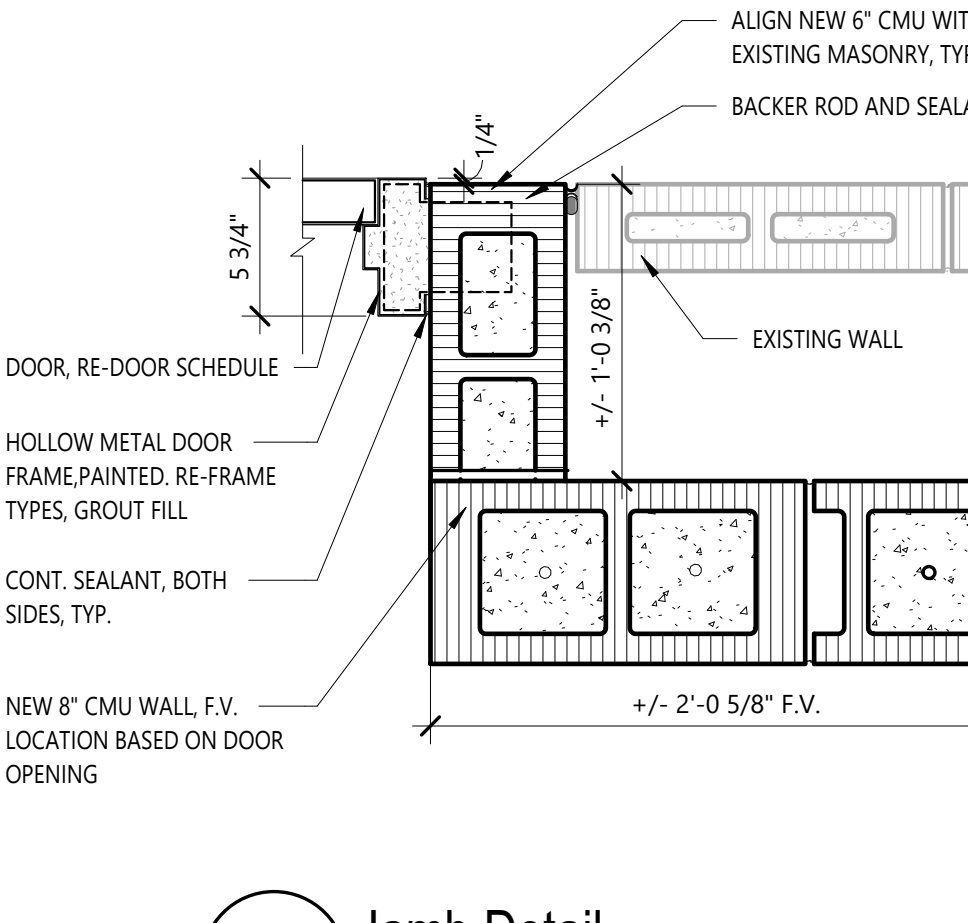
D1 Jamb Detail
1 1/2" = 1'-0"



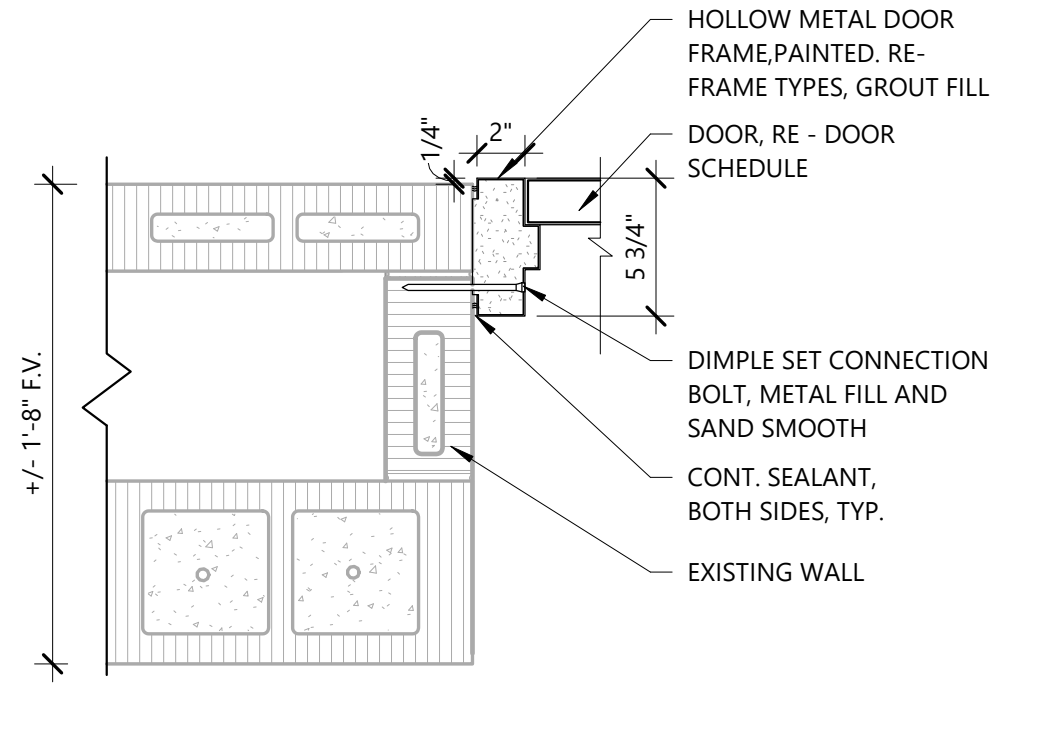
D4 Jamb Detail
1 1/2" = 1'-0"



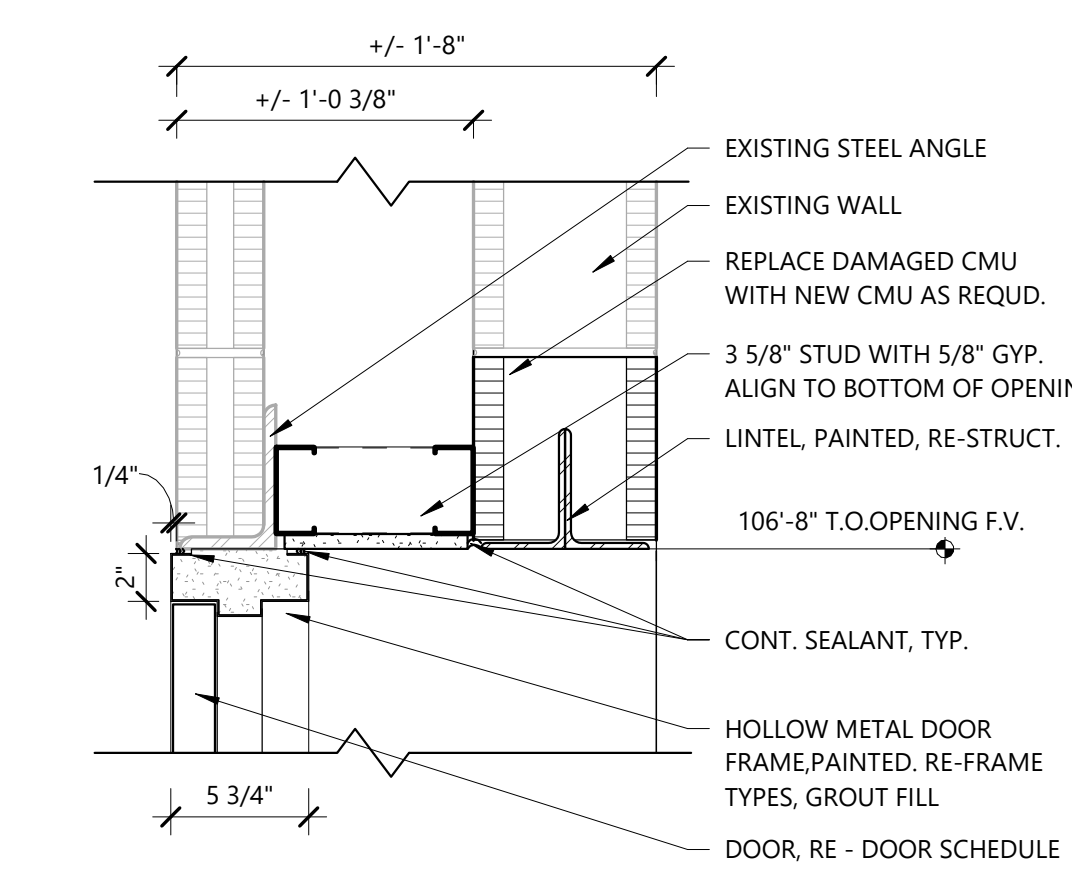
D7 Jamb Detail
1 1/2" = 1'-0"



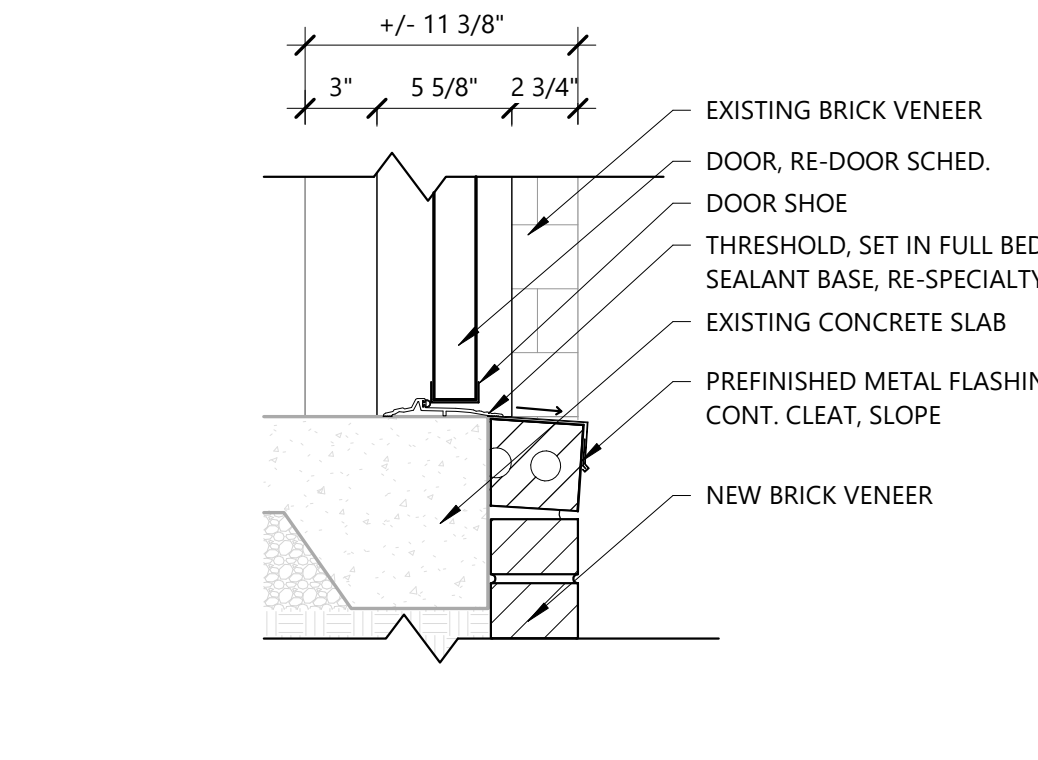
D11 Jamb Detail
1 1/2" = 1'-0"



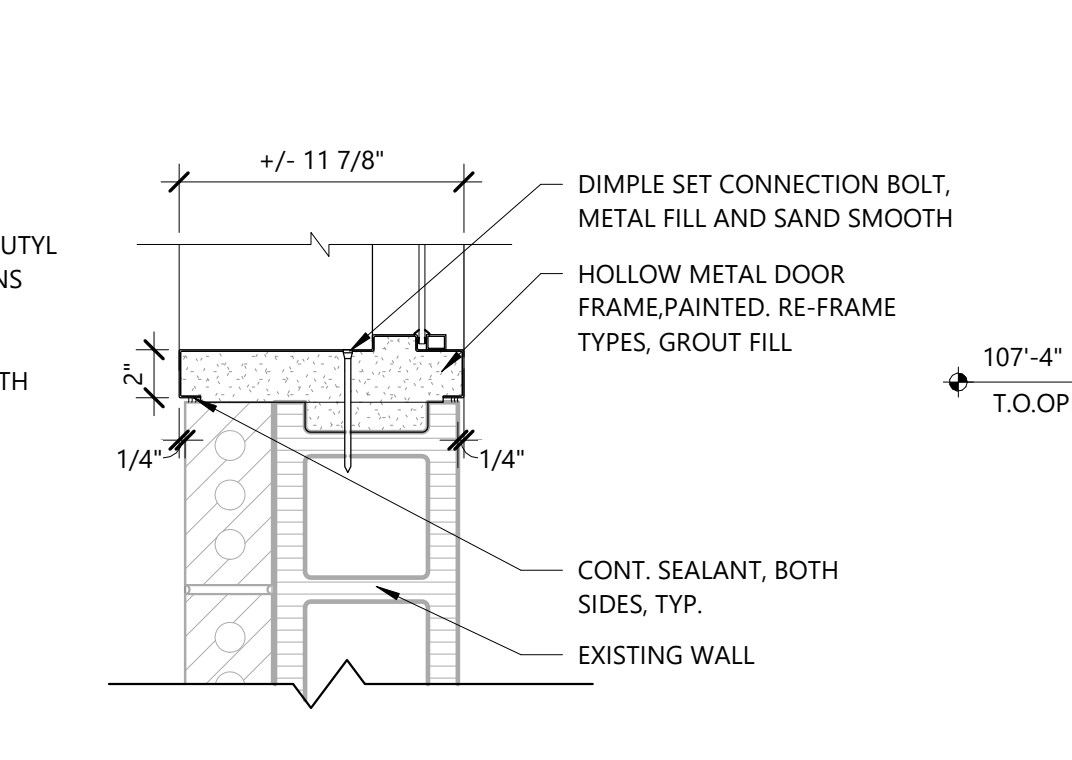
D14 Head Detail
1 1/2" = 1'-0"



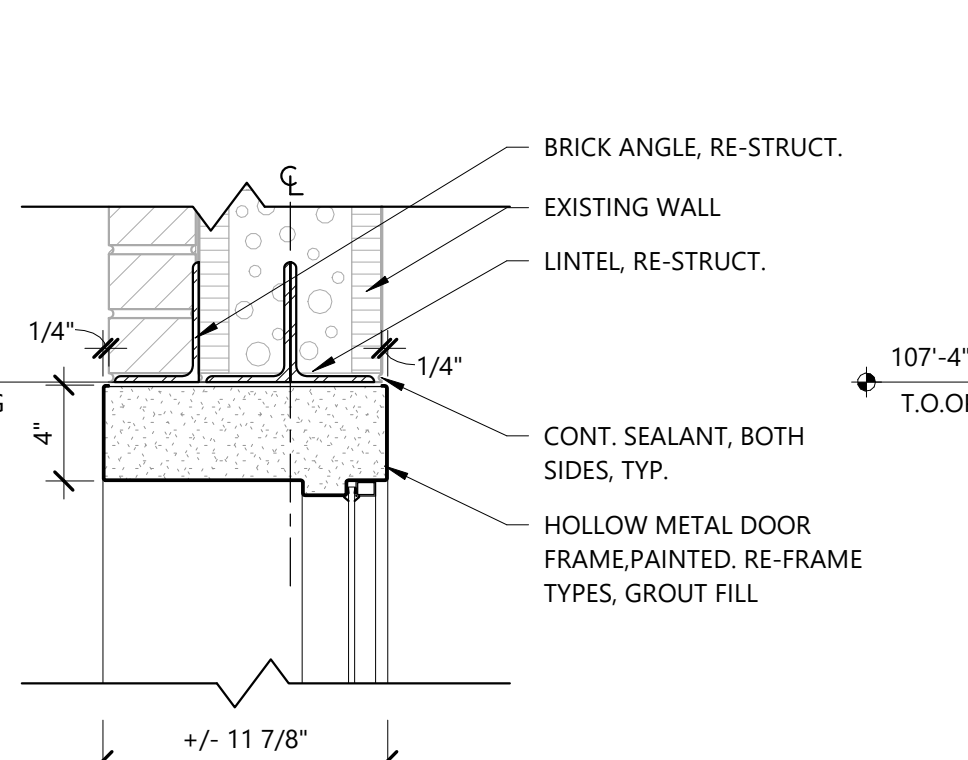
A1 Sill Detail
1 1/2" = 1'-0"



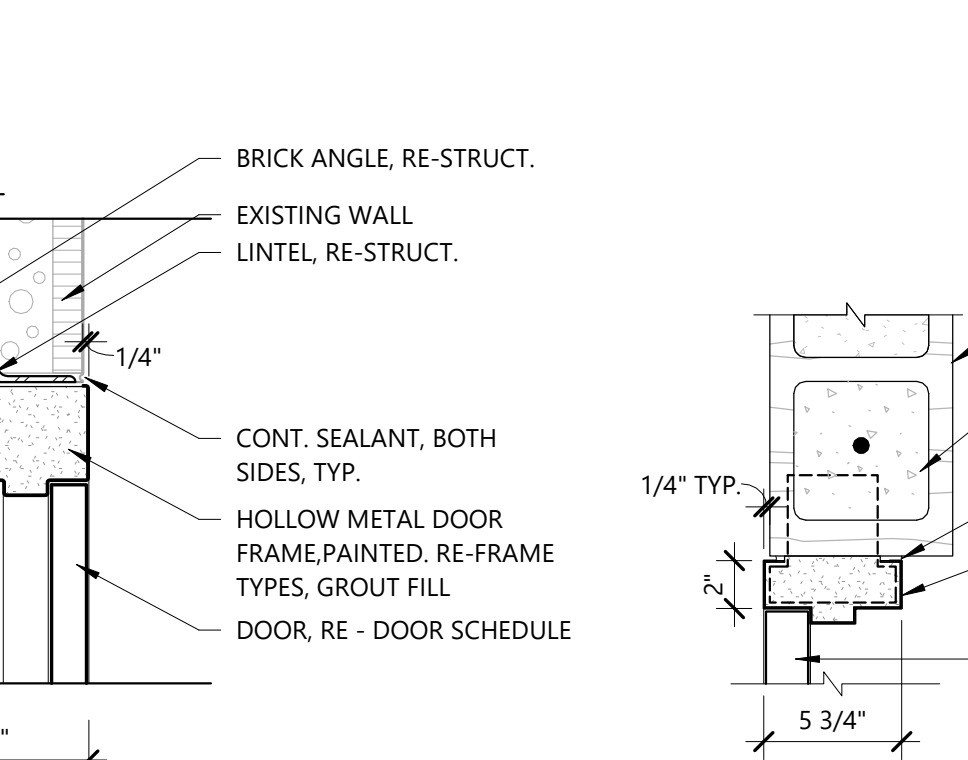
A4 Jamb Detail
1 1/2" = 1'-0"



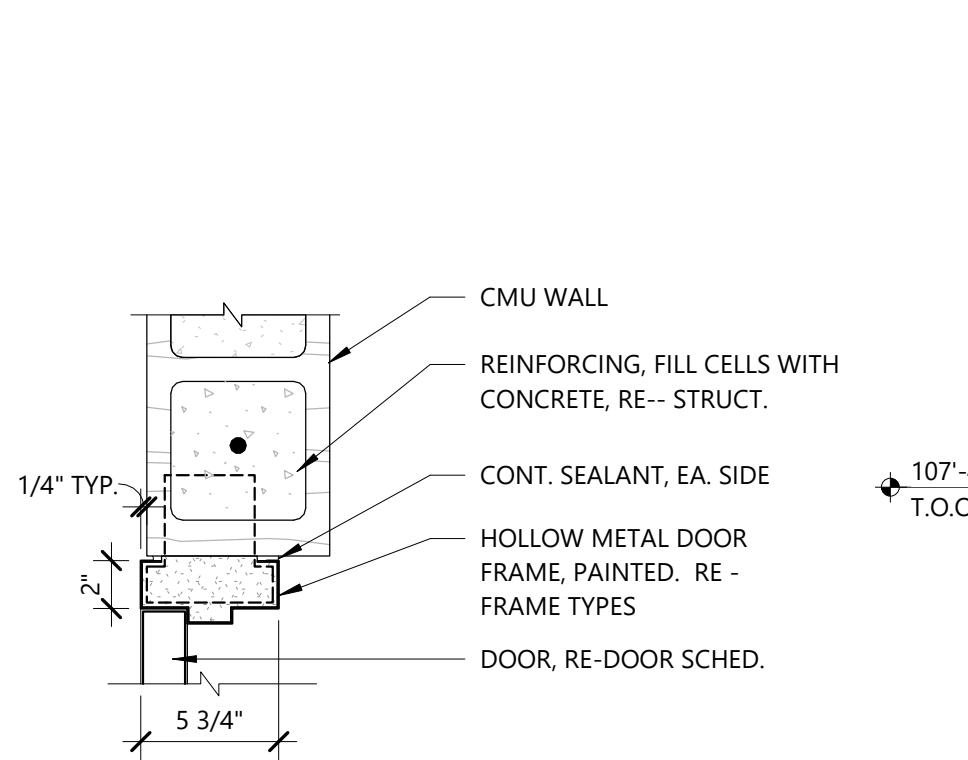
A6 Head Detail
1 1/2" = 1'-0"



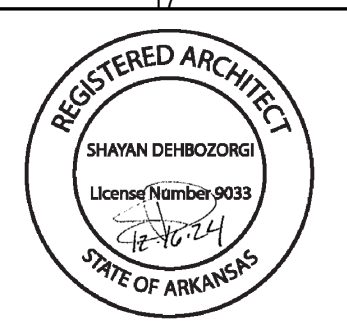
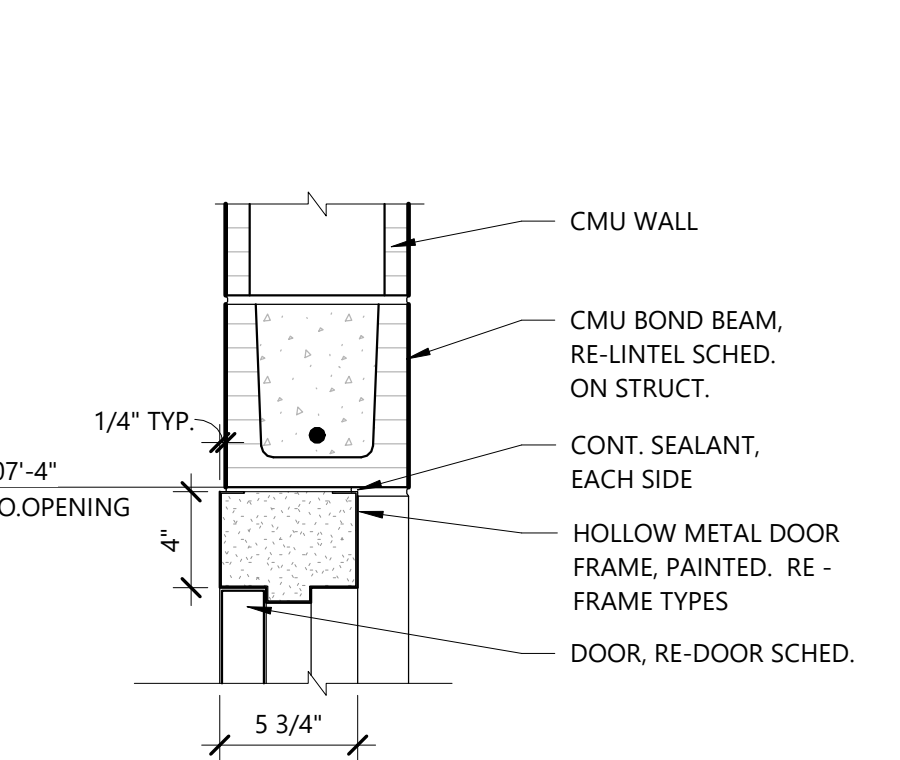
A9 Head Detail
1 1/2" = 1'-0"



A12 Jamb Detail
1 1/2" = 1'-0"



A14 Head Detail
1 1/2" = 1'-0"



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ROGERS, ARKANSAS

DRAWN BY: SM
CHECK BY: MM
ISSUE DATE: 12/16/2024
PROJECT NO: 2422
REVISION DATES: 01/13/2025
DOOR SCHEDULE / DOOR / FRAME ELEVATIONS / DETAILS SHEET
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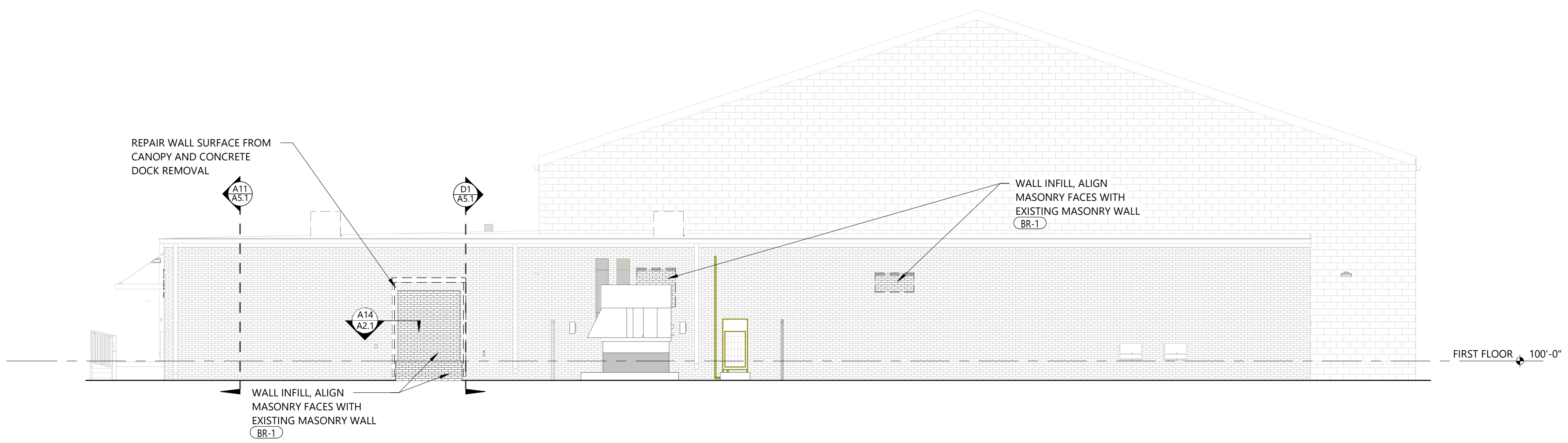
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BUILDING SECTIONS AND
 BUILDING ELEVATION
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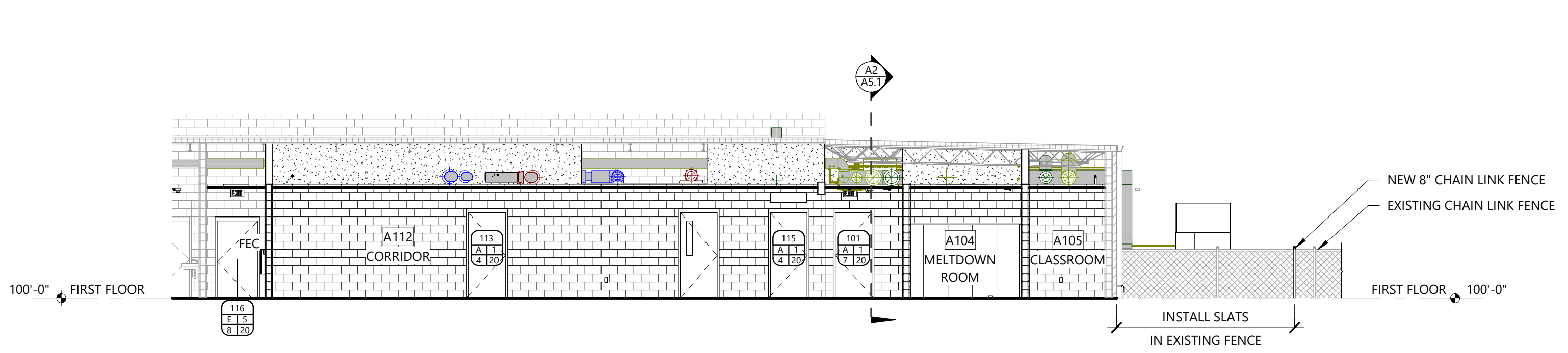


G1 Building Elevation - West
 1/8" = 1'-0" Ref: C1/ A2.1

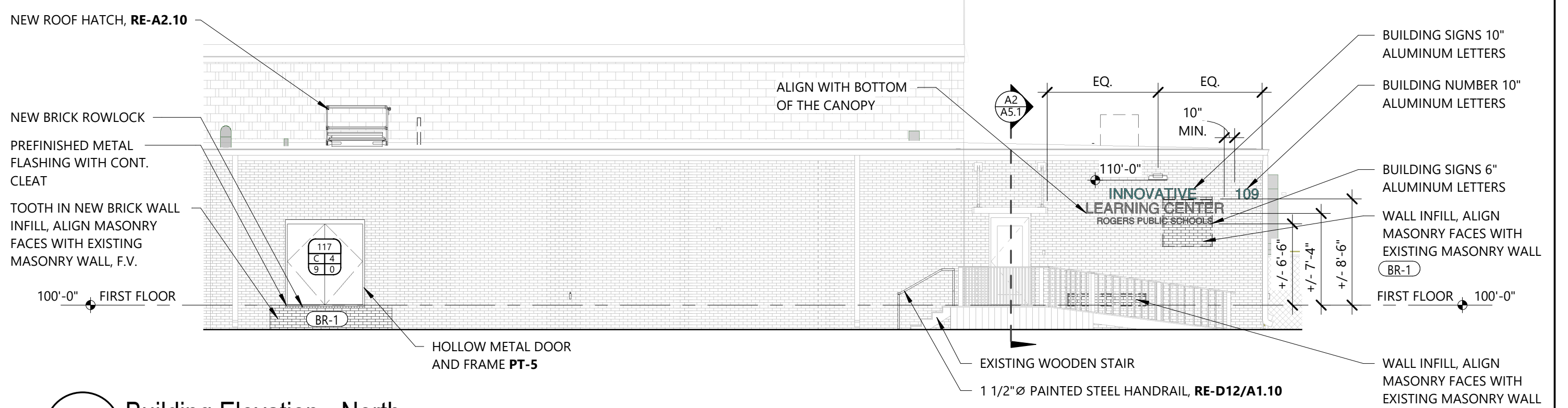
- EXTERIOR FINISH NOTES**
1. PROVIDE EXTERIOR COATING OVER NEW EXTERIOR BRICK INFILL TO MATCH EXISTING COLOR. RE- SPECS.
 2. NEW BRICK INFILL TO MATCH EXISTING BRICK TEXTURE AND COURSING
 3. PAINT NEW EXT. HOLLOW METAL DOOR AND FRAME TO MATCH EXISTING STOREFRONT COLOR
 4. PROTECT ALL EQUIPMENT ADJACENT TO WORK TAKING PLACE

EXTERIOR MATERIALS SCHEDULE/LEGEND

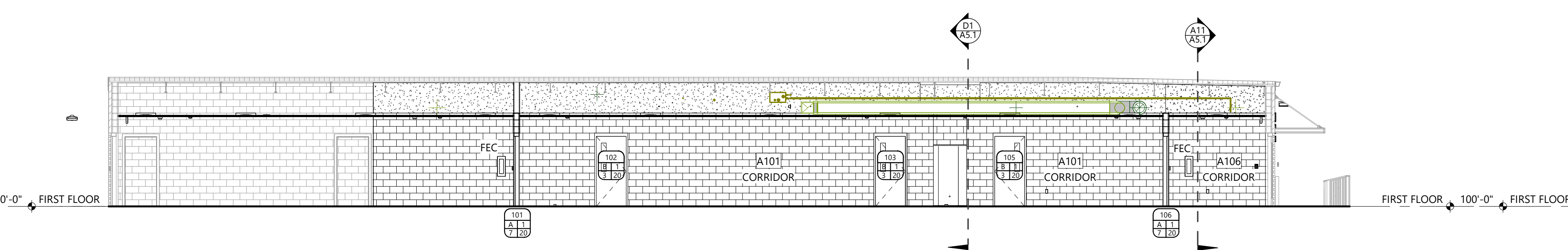
BR-1	BRICK VENEER (MATCH EXISTING TEXTURE)
------	---------------------------------------



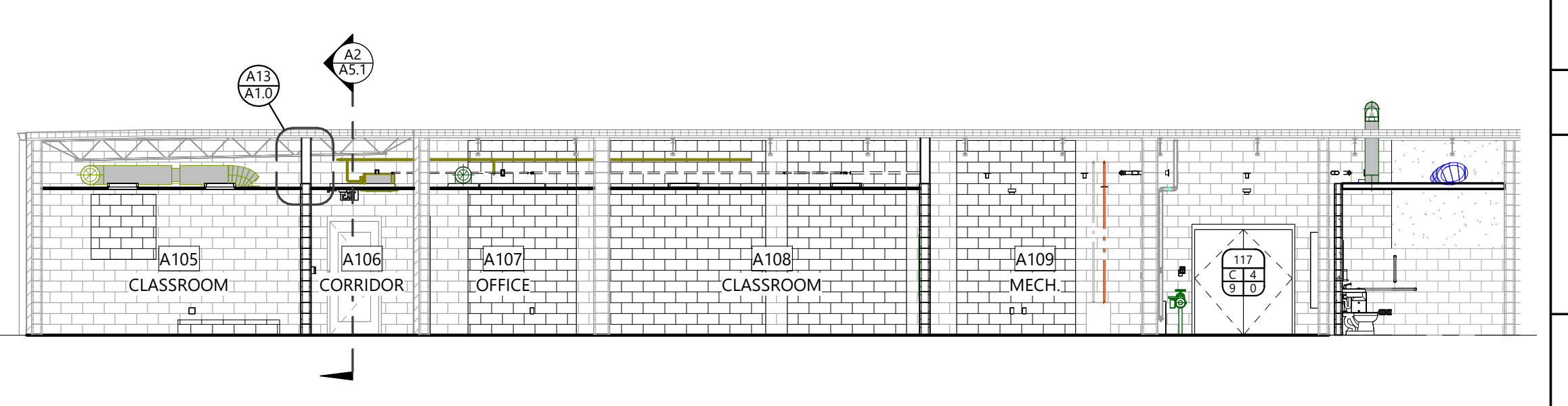
D1 Building Section
 1/8" = 1'-0" Ref: C1/ A2.1



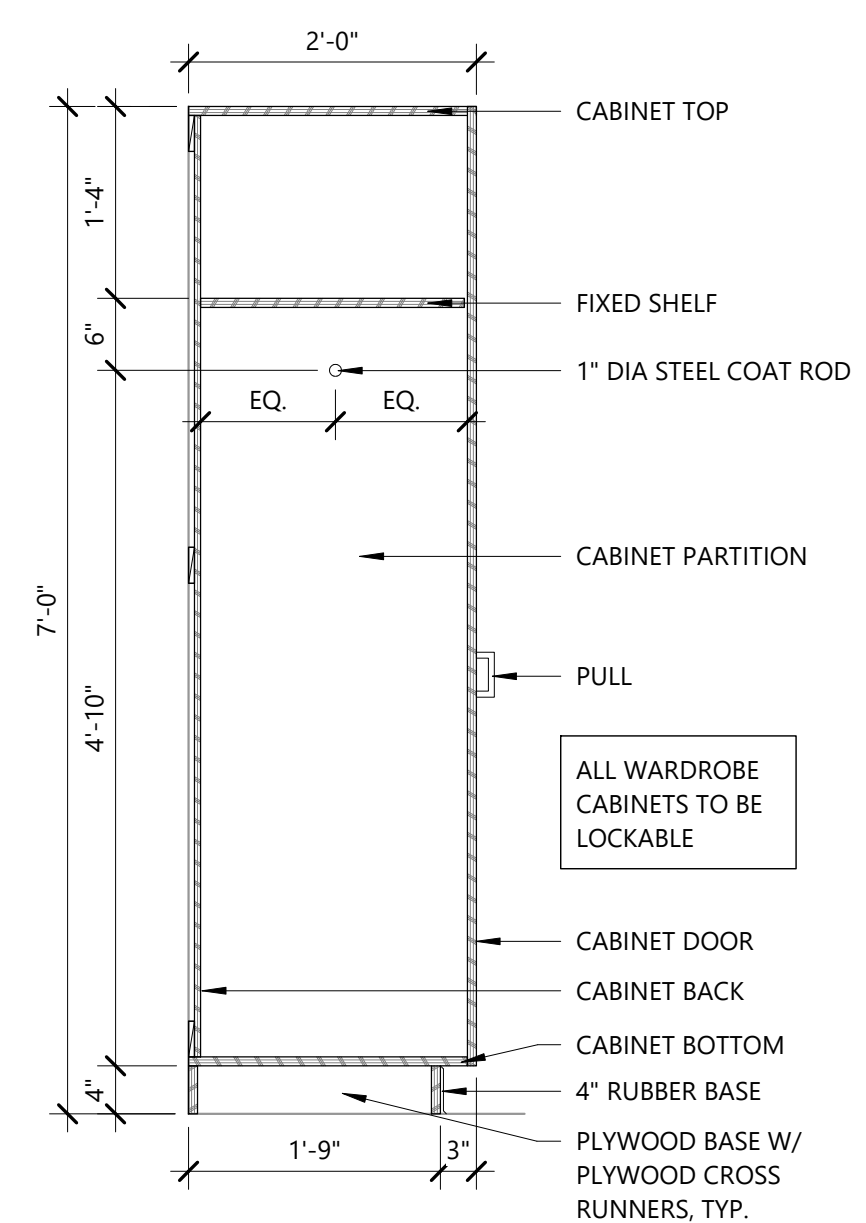
D9 Building Elevation - North
 1/8" = 1'-0" Ref: C1/ A2.1



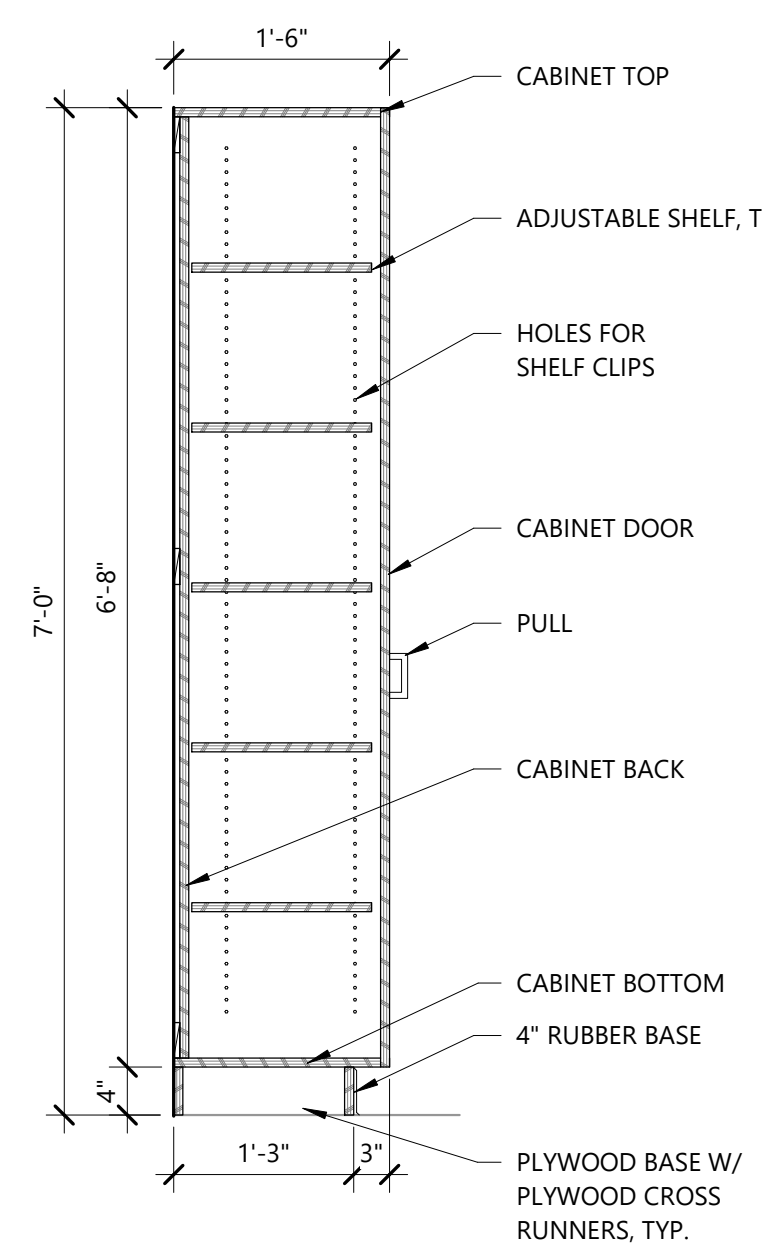
A2 Building Section
 1/8" = 1'-0" Ref: C1/ A2.1



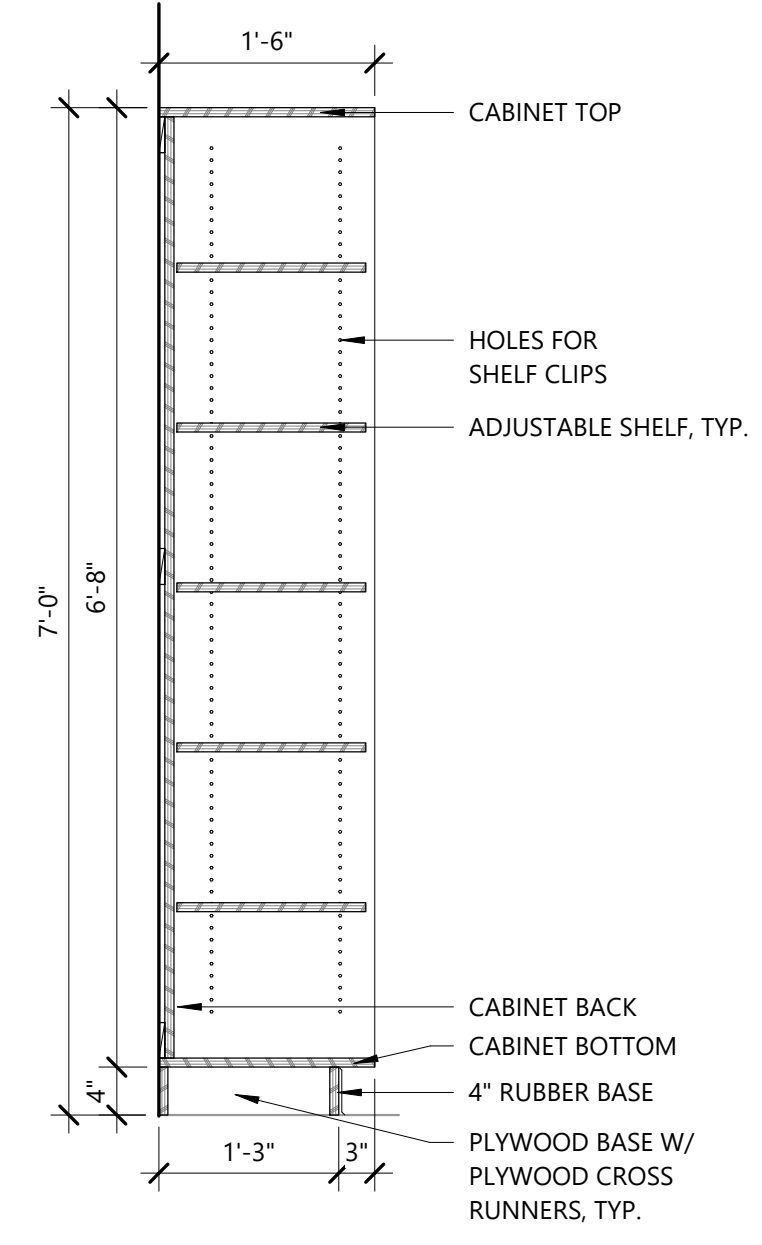
A11 Building Section
 1/8" = 1'-0" Ref: C1/ A2.1



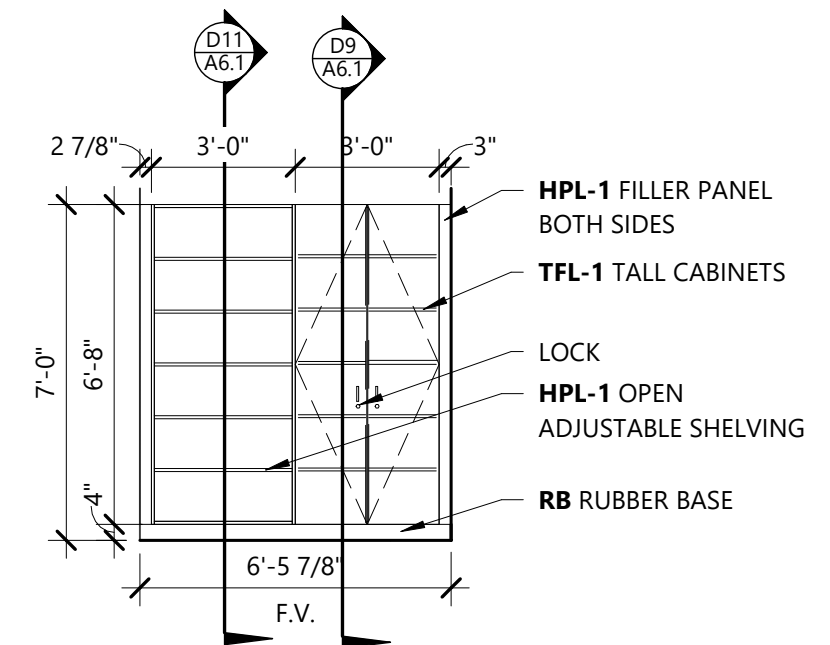
F1 Millwork Section
3/4" = 1'-0" Ref: A9/ A6.1



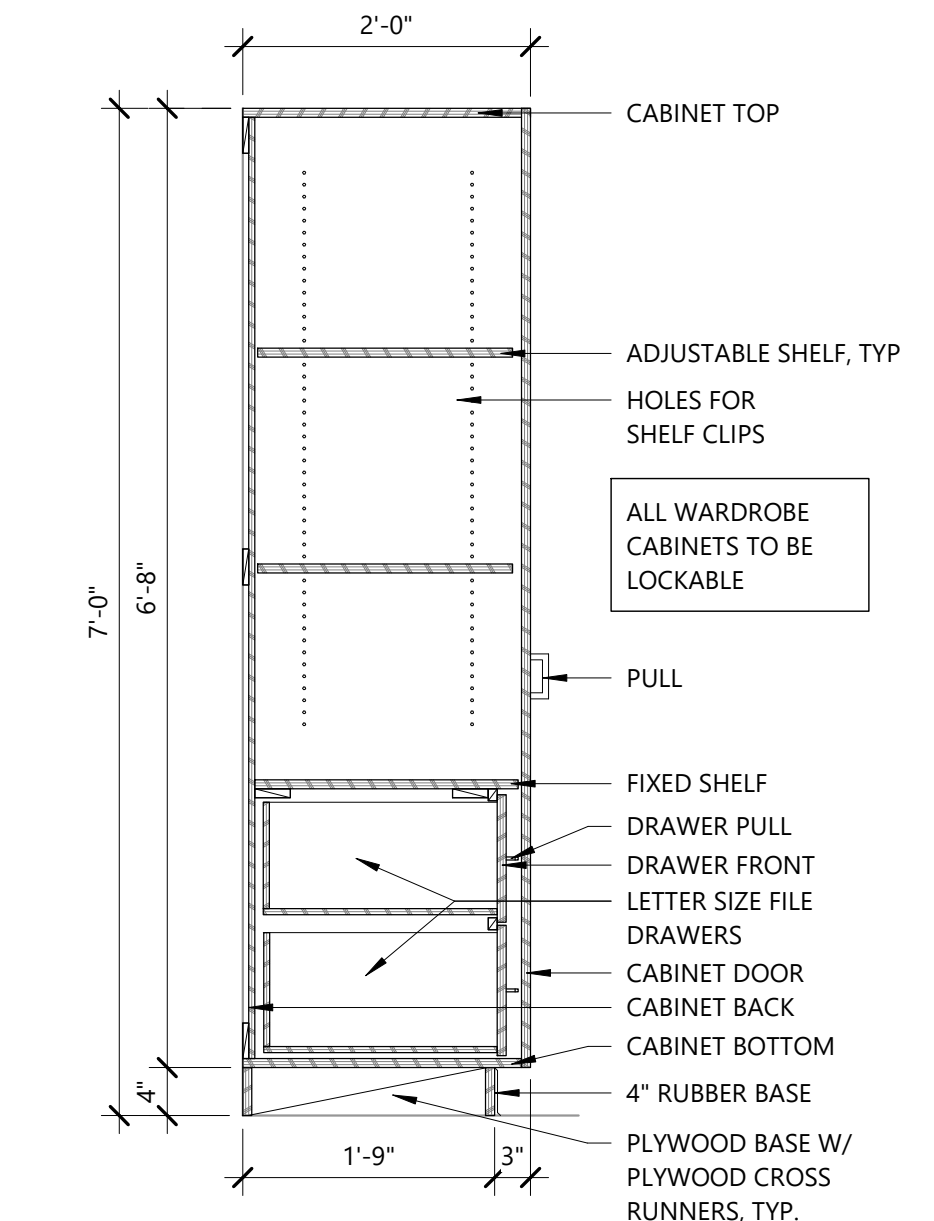
D9 Millwork Section
3/4" = 1'-0" Ref: D14/ A6.1



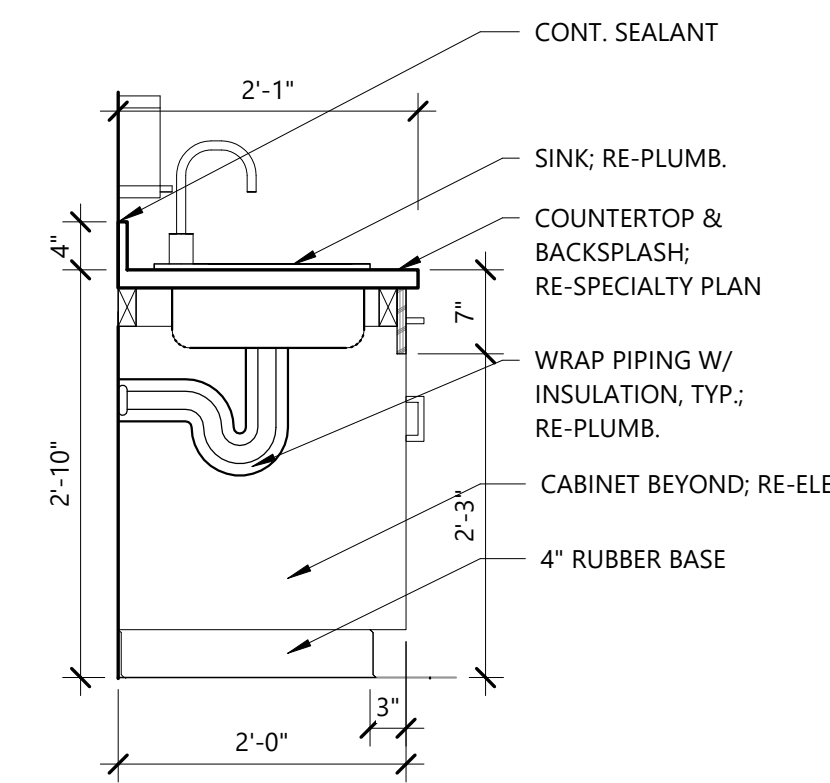
D11 Millwork Section
3/4" = 1'-0" Ref: D14/ A6.1



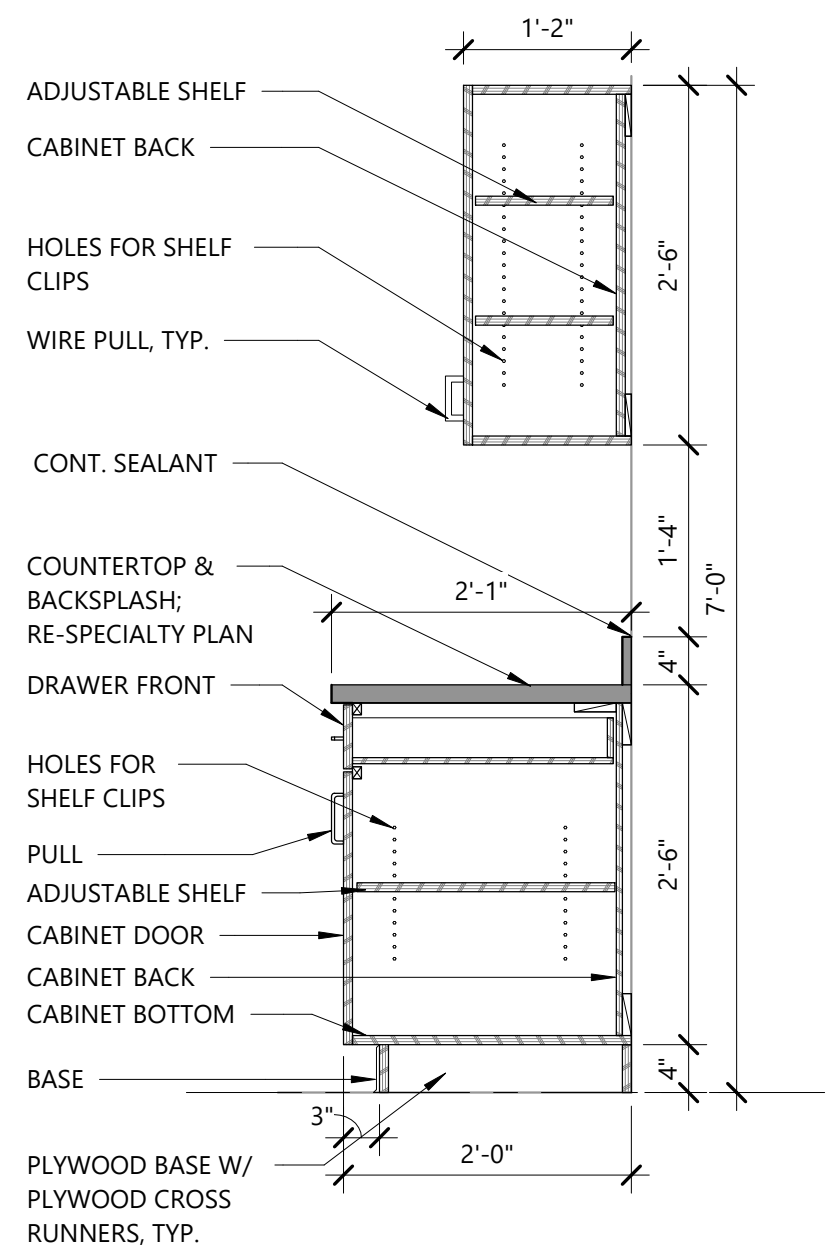
D14 Millwork Elevation - A113
1/4" = 1'-0" Ref: A10/ A2.3A



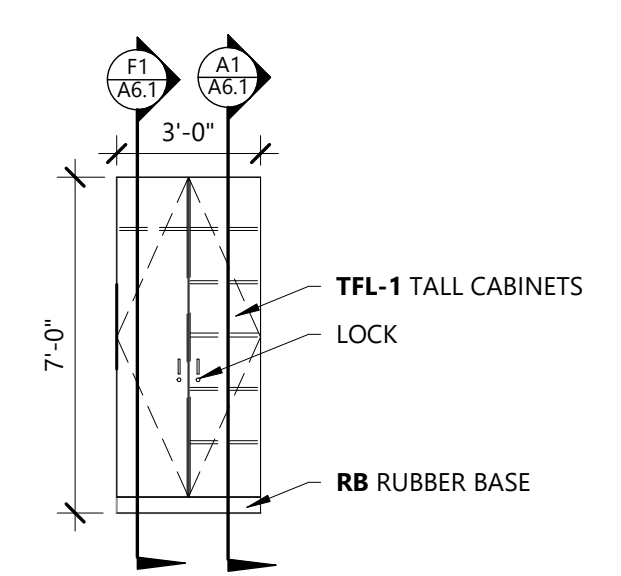
A1 Millwork Section
3/4" = 1'-0" Ref: A9/ A6.1



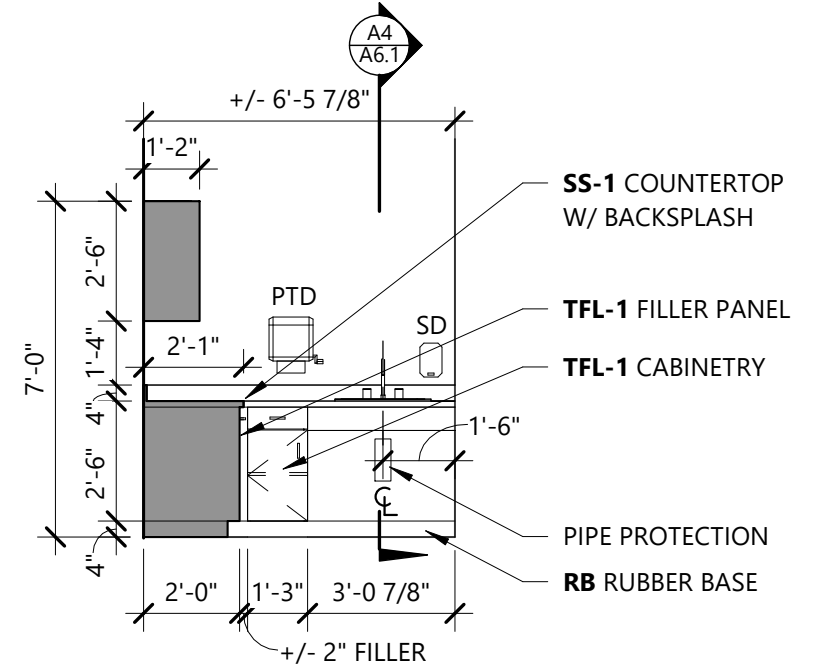
A4 Millwork Section
3/4" = 1'-0" Ref: A11/ A6.1



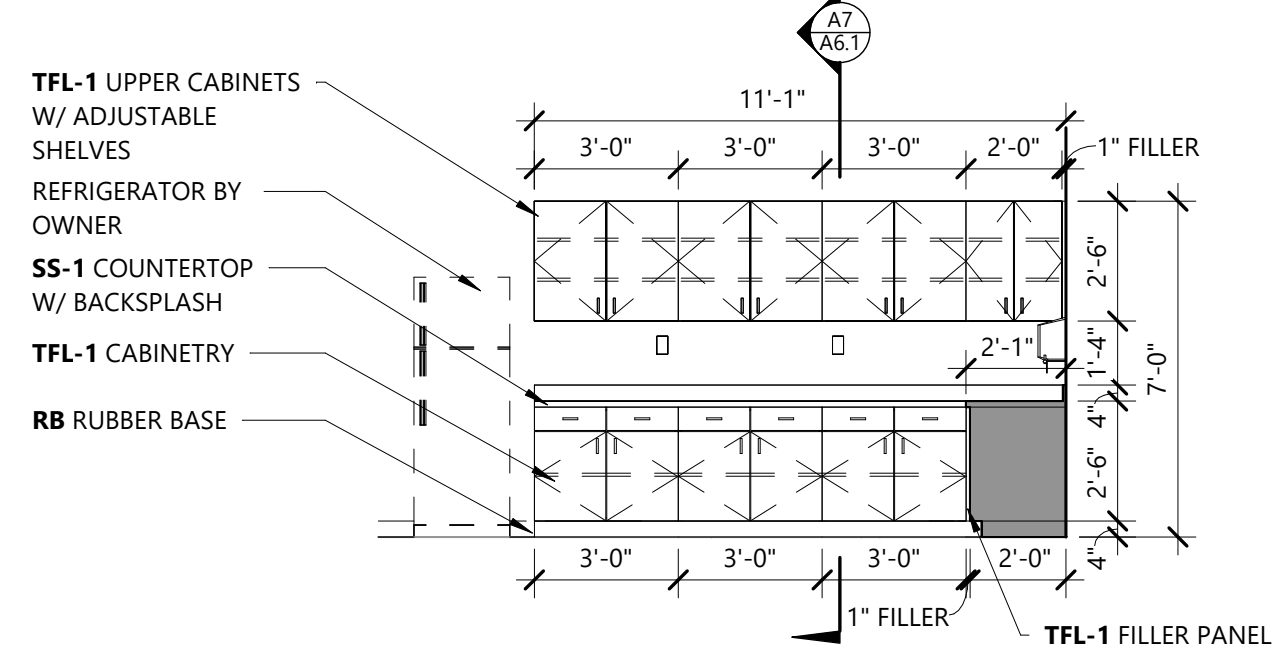
A7 Millwork Section
3/4" = 1'-0" Ref: A14/ A6.1



A9 Millwork Elevation-Classroom Cabinet Typ.
1/4" = 1'-0" Ref: A10/ A2.3A



A11 Millwork Elevation - A113
1/4" = 1'-0" Ref: A10/ A2.3A



A14 Millwork Elevation - A113
1/4" = 1'-0" Ref: A10/ A2.3A

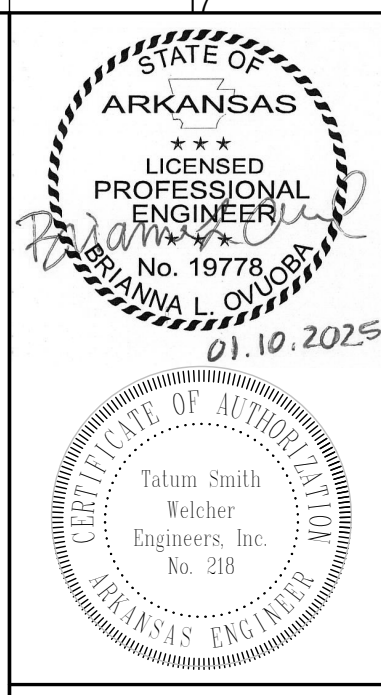
SPECIAL INSPECTIONS			
1. Special Inspections shall be performed in accordance with Section 1705 of 2021 IBC. An independent testing agency shall be employed to provide Special Inspections during construction on the types of work listed under Section 1705. The following areas of work require Special Inspections in accordance with 2021 IBC.			
2. Refer to project specification for additional quality control/quality assurance requirements.			
3. Construction Manager/Contractor shall coordinate any additional Special Inspection requirements with the Owner and applicable building authorities.			
4. Special Inspections are not the responsibility of the Structural Engineer of Record.			
5. Special Inspections shall be paid for directly by the Construction Manager.			
6. Copies of all Special Inspections Reports shall be emailed to the SEOR Brianna L. Ovuoba PhD, P.E., (blo@tswstructural.com) within seven (7) calendar days of completing the individual inspection(s).			

CONCRETE CONSTRUCTION (IBC 1705.3; TABLES J9-2 & J9-3, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Reinforcing steel, including prestressing tendons	----	X	Verify, prior to placing concrete, reinforcing is of specified type, grade and size; free of oil, dirt and rust; located and spaced properly; hooks, bends, ties, stirrups and supplemental reinforcement placed correctly; lap lengths, stagger and offsets provided; and all mechanical connections installed per the manufacturer's instructions and/or evaluation report.
Cast-in anchors	N/A	N/A	Verify anchor installation complies with ACI 318: 17.8.2.
Post-installed anchors	N/A	N/A	All post-installed anchors shall be specially inspected as required by the approved ICC-ES report. Anchors installed horizontally or in upwardly inclined orientations to resist tension loads require continuous inspection per ACI 318: 17.8.2.4. Verify all other mechanical and adhesive anchors comply with ACI 318: 17.8.2.
Use of required mix design	----	X	Verify mixes comply with the approved construction documents: ACI 318, Ch. 19, 26.4.3, 26.4.4 and IBC 1904.1, 1904.2.
Concrete sampling for strength tests, slump, air content, and temperature	X	----	Verify sampling in accordance with ASTM C172 and ASTM C31. See ACI 318: 26.12 for evaluation and acceptance of concrete. See ACI 318: 26.5 for mixing requirements of concrete.
Concrete & shotcrete placement	X	----	Verify proper application techniques. See ACI 318: 26.5.
Curing temperature and techniques	----	X	Verify concrete surface temperature (other than high-early-strength) is kept >50°F in moist condition for at least 7 days after placement unless accelerated curing is used. High-early-strength concrete shall be kept >50°F in moist condition for at least 3 days unless accelerated curing is used. Verify compliance with cold weather requirements in ACI 318: 26.5.4 or hot weather requirements in ACI 318: 26.5.5, whichever is applicable.
Pre-stressed concrete	N/A	N/A	Verify application of prestressing force and grouting of bonded prestressing tendons in accordance with ACI 318: 26.10.
Erection of precast concrete	N/A	N/A	Verify all precast elements are lifted, assembled and braced in accordance with the approved construction documents. See ACI 318: 26.9.
Strength verification	----	X	Verify adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons. See ACI 318: 26.11.2.
Formwork	----	X	Verify forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents. See ACI 318: 26.11.1, 2.
Limits on water added at the truck or pump	----	X	Verify during concrete placement. Applicable to composite construction in seismic force resisting system components. Perform on a random daily basis per AISC 341-16 Section J5.1. See Table J9-2, AISC 341-16.
Proper placement techniques to limit segregation	----	X	Verify during concrete placement. Applicable to composite construction in seismic force resisting system components. Perform on a random daily basis per AISC 341-16 Section J5.1. See Table J9-2, AISC 341-16.
Verify installation of the embedded parts, completion of the continuity of reinforcement across joints, and completion of connections in the field	N/A	N/A	For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to seismic design category C, D, E, or F. See ACI 318: 26.13.1.3 and ACI 550.5.
Verify installation tolerances of precast concrete diaphragm connections	N/A	N/A	See ACI 550.5 for compliance.

MASONRY CONSTRUCTION (IBC 1705.4)			
PRIOR TO CONSTRUCTION (ARTICLE 1.5, TMS-602-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Review material certificates, mix designs, test results and construction procedures	----	X	Verify materials conform to requirements of approved construction documents. Mix design, test results, material certificates, and construction procedures submitted for review. Mortar mix designs conform to ASTM C 270; grout conforms to ASTM C 476. Material certificates provided for: reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction reviewed. Qualification of field testing personnel, and special inspector reviewed.
AS CONSTRUCTION BEGINS (TABLE 4, TMS-602-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Proportions of site-prepared mortar	----	X	Verify mortar is type and color specified on construction documents, conforms to ASTM C 270, and is mixed in accordance with Article 2.6 A and Article 2.6 C of TMS 602-16.
Grade and size of prestressing tendons and anchorages	N/A	N/A	Verify prestressing tendons comply with Article 2.4 B of TMS-602-16 and anchorages, couplers, and end blocks comply with Article 2.4 H.
Grade, type, and size of reinforcement, connectors, anchor bolts, and prestressing tendons and anchorages	----	X	Verify reinforcement is placed in accordance with Article 3.4 of TMS-602-16. Prestressing tendons placed per Article 3.6 A.
Prestressing technique	N/A	N/A	Verify prestressing technique complies with Article 3.6 B of TMS-602-16.
Properties of thin-bed mortar for AAC masonry	N/A	N/A	Verify mortar complies with Article 2.1 C of TMS-602-16. Continuous inspection required for first 5000 sqft. of AAC masonry. Periodic inspection required thereafter.
Sample panel construction	N/A	N/A	Verify sample panel complies with Article 1.6 D of TMS-602-16.
DURING MASONRY CONSTRUCTION (TABLE 4, TMS-602-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Size and location of structural elements	----	X	Verify locations of structural elements comply with approved plans. Confirm tolerances meet the requirements of Article 3.3 F of TMS 602-16.
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	----	X	Verify anchorages and connections are provided per approved plans, Section 1.2.1(e), 6.1.4.3, and 6.2.1 of TMS 602-16. Continuous inspection required for Risk Category IV buildings.
Welding of reinforcement	N/A	N/A	Verify welded splice has bars butted and welded to develop at least 125% of yield strength of bar in tension or compression. See Section 6.1.6.1.2 of TMS 402-16.
Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F)	----	X	Verify cold-weather construction performed in accordance with Article 1.8 C of TMS 602-16 and hot weather construction per Article 1.8 D of TMS 602-16.
Application and measurement of prestressing force	N/A	N/A	Verify compliance with Article 3.6 B of TMS 602-16.
Placement of grout and prestressing grout for bonded tendons is in compliance	N/A	N/A	Verify placement of grout in compliance with Article 3.5 of TMS 602-16 and grout for bonded tendons in compliance with Article 3.6 C of TMS 602-16.
Placement of AAC masonry units and construction of thin-bed mortar joints	N/A	N/A	Verify mortar is placed in accordance with Articles 3.3 B.9, and 3.3 F.1.b of TMS 602-16. Continuous inspection is required for first 5000sqft. of AAC masonry. Periodic inspection required thereafter.
Observation of preparation of grout specimens, mortar specimens, and/or prisms	----	X	Confirm specimen/prism preparation performed as required by Article 1.4 of TMS 602-16. Continuous inspection is required for Risk Category IV buildings.
Placement of masonry unit and construction of mortar joints	----	X	Verify placement in accordance with Article 3.3 B of TMS 602-16.
Materials and procedures with the approved submittals	----	X	Verify materials and procedures conform to approved submittals. See Article 1.5 of TMS 602-16.
PRIOR TO GROUTING (TABLE 4, TMS-602-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Grout space	----	X	Verify grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and cleanouts are provided per Article 3.2 D and 3.2 F of TMS-602-16. Continuous inspection is required for Risk Category IV buildings.
Placement of prestressing tendons and anchorages	N/A	N/A	Verify reinforcement, cover, and protection of prestressing tendons, Sections 10.8 and 10.9 of TMS 402-16, and Articles 2.4 and 3.6 of TMS 602-16.
Placement of reinforcement, connectors, and anchor bolts	----	X	Verify reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors are installed in accordance with the approved construction documents, Section 6.1, 6.3.1, 6.3.6, and 6.3.7 of TMS 402-16, and Articles 3.2 E, and 3.4 of TMS 602-16. Continuous inspection is required for Risk Category IV buildings.
Proportions of site-prepared grout and prestressing grout for bonded tendons	----	X	Verify grout is proportioned per ASTM C 476 and has a slump between 8-11 inches. Self-consolidated grout shall not be proportioned onsite. See Article 2.6 B of TMS 602-16. Verify prestressing grout complies with Article 2.4 G.1.b of TMS 602-16.
MINIMUM TESTING (TABLE 3, TMS 602-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verification of slump flow and Visual Stability Index (VSI) for self-consolidating grout	----	X	Compressive strength tests should be performed in accordance with ASTM C 1019; slump flow and VSI performed in accordance with ASTM C 1611.
Verification of fm and FAAC	----	X	Determine compressive strengths for each wythe by "unit strength method" or by the "prism test method" as specified in Article 1.4 B of TMS 602-16 prior to construction. For Risk Category IV buildings this should be verified at every 5,000 sq. ft. of construction.
Verification of proportions of materials in grout and premixed or preblended mortar	----	X	Verify that proportions for mortar meet ASTM C 270 and proportions for grout meet ASTM C 476. This applies to Risk Category IV buildings only.

STRUCTURAL STEEL (IBC 1705.2.1, 1705.13.1 & 1705.14.1)			
PRIOR TO WELDING (TABLE N5.4-1, AISC 360-16; TABLE J6-1, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verify welding procedures (WPS) and manufacturer certifications for welding consumable available	X	----	Verify welding procedures (WPS) and manufacturer certifications for welding consumable available
Verify type and grade of material.	----	X	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Welder identification	----	X	A system shall be maintained by which a welder who has welded a joint or member can be identified. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fit-up groove welds	----	X	Verify joint preparation, dimensions, cleanliness, tacking, and backing. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Access holes	----	X	Verify configuration and finish. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fit-up of fillet welds	----	X	Verify dimensions, cleanliness, and tacking. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Check welding equipment	----	X	----
Welder qualification records and continuity records	----	X	----
DURING WELDING (TABLE N5.4-2, AISC 360-16; TABLE J6-2, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Use of qualified welders	----	X	Verify that welders are appropriately qualified. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Control and handling of welding consumables	----	X	Verify packaging and exposure control. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Cracked tack welds	----	X	Verify welding does not occur over cracked tack welds. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Environmental conditions	----	X	Verify wind speed within limits, precipitation and temperature. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
WPS followed	----	X	Verify settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Welding techniques	----	X	Verify interpass and final cleaning, each pass within profile limitations, and quality of each pass. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Steel headed stud anchors	----	X	Verify placement and installation.
AFTER WELDING (TABLE N5.4-3, AISC 360-16; TABLE J6-3, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Welds cleaned	----	X	Verify welds properly cleaned. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Size, length, and location of welds	X	----	----
Welds meet visual acceptance criteria	X	----	Verify crack prohibition, weld/base metal fusion, crater cross section, weld profiles, weld size, undercut, and porosity meet visual acceptance criteria.
Arc strikes	X	----	----
k-area	X	----	----
Backing & weld tabs removed and finished, and fillet welds added (if required)	X	----	----
Repair activities	X	----	----
Document acceptance or rejection of welded joint/member	X	----	----
Placement of reinforcing or contouring fillet welds	X	----	Only required in components of seismic force resisting system.
Weld access holes	----	X	After rolled heavy shapes are welded, visually inspect the weld access hole for cracks.
Prohibited welds	X	----	Verify no prohibited welds have been added without approval of the EOR.
OTHER STEEL INSPECTIONS (SECTION N5.7 & N5.8, AISC 360-16; TABLES J8-1 & J10-1, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Structural steel details (fabricated steel or steel frames)	----	X	Verify compliance with the details in construction documents in items including: braces, stiffeners, member locations, and proper application of joint details at each connection. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Anchor rods and other embedments supporting structural steel	----	X	Verify compliance with construction documents. Verify diameter, grade, type, length of anchor rod or embedded item, and extent or depth of embedment prior to placement of concrete. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Reduced beam sections (RBS)	N/A	N/A	For seismic force resisting system components: Verify contour and finish as well as dimensional tolerances.
Protected zones	N/A	N/A	For seismic force resisting system components: Verify that no holes or unapproved attachments are made within the protected zone.
H-piles	N/A	N/A	For seismic force resisting system components: Verify that no holes or unapproved attachments occur within the protected zones of piling.
Galvanized structural steel	N/A	N/A	Verify exposed cut surfaces of galvanized structural steel main members and exposed corners of rectangular HSS have no cracks subsequent to galvanizing.

STRUCTURAL STEEL (CONT.) (IBC 1705.2.1, 1705.13.1, & 1705.14.1)			
PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-16; TABLE J7-1, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Manufacturer's certifications	X	----	Verify certifications available for fastener materials.
Fasteners marked	----	X	Verify marked in accordance with ASTM requirements. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fastener selection	----	X	Verify proper selection for joint detail including grade, type, and bolt length if threads excluded from shear plane. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Bolting procedure	----	X	Verify proper bolting procedure selected for joint detail. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Connecting surfaces	----	X	Verify connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Pre-installation verification testing by installation personnel	X	----	Observe and document for fastener assemblies and methods used.
Fastener storage	----	X	Verify proper storage provided for bolts, nuts, washers, and other fastener components. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
DURING BOLTING (TABLE N5.6-2, AISC 360-16; TABLE J7-2, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Position of fasteners	----	X	Verify fastener assemblies, of suitable condition, are placed in all holes and washers, if required, are positioned as required. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Joint brought into snug-tight condition prior to the pretensioning operation	N/A	N/A	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fastener components not turned by the wrench are prevented from rotating	----	X	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Pretensioning of fasteners	N/A	N/A	Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
AFTER BOLTING (TABLE N5.6-3, AISC 360-16; TABLE J7-3, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Document acceptance or rejection of bolted connections	X	----	----



Hight Jackson
 ASSOCIATES
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A NEW FACILITY FOR
K-5 ALE at Tillery
 ROGERS, ARKANSAS

DRAWN BY: DAZ
CHECK BY: BLO
ISSUE DATE: 12/16/2024
PROJECT NO: 2422
REVISION DATES: 01/13/2025
REQUIRED IBC SPECIAL INSPECTIONS
SHEET S1.0
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TATUM SMITH WELCHER
 STRUCTURAL ENGINEERS
 (479) 621-6128 ROGERS, ARKANSAS
 TSW #: 24164 PM: BLO DE: DAZ

CONSTRUCTION SAFETY GENERAL NOTE

THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TEMPORARY SHORING/BRACING, OR FOR SAFETY PRECAUTIONS AND PROGRAMS, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

Concrete General Notes 3100:

- All detailing, fabrication and placing of reinforcing steel shall conform to the ACI Standard "Details and Detailing of Concrete Reinforcement" (ACI 315).
- Concrete at slab-on-grade shall develop a 28-day minimum compressive strength of 3,500 psi and have WWF.
- All concrete for slab-on-grade shall have a 5" maximum slump.
- All reinforcing steel shall be deformed bars conforming to ASTM A615, Grade 60.
- All reinforcing bar splices shall be 44 bar diameters for #6 and smaller diameter bars. Reinforcing bar splices shall be 48 bar diameters for #7 and larger bar diameters.
- All reinforcing bar hooks shall be ACI standard 90 degree hook, unless noted otherwise.
- Smooth dowels shall be steel conforming to ASTM A36.
- All slots, sleeves and other embedded items shall be set before concrete is placed. See Architectural, Electrical, Mechanical, and Vendor's drawings for size and locations.
- Bar supports at slabs-on-grade shall be factory made wire bar supports, type "SBU" linear supports.
- Epoxy for doweling reinforcement shall be HY-200 by Hilti, unless noted otherwise.
- Use of compacted, free-draining pea gravel, crushed stone, or coarse sand underneath the building slab is recommended by TSW, Inc. Consult Geotechnical Engineer regarding potential substitution of free-draining coarse materials with approved subgrade. Slabs-On-Grade have been designed for a modulus of subgrade reaction (k-value) of 100 psi/in.

Concrete Masonry General Notes 4100:

- All concrete masonry units shall be lightweight above finished floor and normal weight below grade. All hollow concrete masonry units shall conform to ASTM C90, Grade N, Type 1 with a minimum ultimate compressive prism strength (Fm) of 2000 psi for the masonry assemblage. All concrete masonry shall be laid in Running (Common) Bond.
- Mortar at exterior walls, all load-bearing walls, walls below grade and non-load-bearing walls higher than 20'-0" shall be Type S mortar and have a minimum compressive strength of 1,800 psi. Mortar at interior non-load-bearing walls not higher than 20'-0" and mortar at masonry veneer shall be Type N mortar and have a minimum compressive strength of 750 psi. All mortar shall conform to ASTM C270. Masonry cement shall not be used for mortar.
- All grout shall be ready-mix concrete, with 3/8" diameter max. aggregate, have a minimum 28-day compressive strength of 2,000 psi and a design slump between 8" to 10" or preblended product (Core Fill Grout, Coarse CF-02, by Spec Mix) with a minimum 28-day compressive strength of 2,000 psi and a design slump between 8" to 10".
- All 8" CMU bond beam units shall be reinforced with one bar. See Masonry Wall Reinforcement Schedule on Drawing S3.0 for size of bars for vertical wall reinforcement and bond beam requirements. Provide corner bars and lap bond beam reinforcing 48 bar diameters.
- All reinforcing steel shall be deformed bars conforming to ASTM A615, Grade 60.
- All bolts, anchors, reinforcement and embedded items shall be grouted in place.
- All reinforcing bar splices shall be 48 bar diameters, U.N.O.
- At all 8" CMU walls except at interior non-load bearing walls, provide (1) vertical bar each cell for the first (2) cells adjacent to control joints in walls, at ends of walls, wall corners and on each side of wall openings, unless noted otherwise. Vertical bars shall match reinforcement for remainder of wall. See Masonry Wall Reinforcement Schedule on Drawing S3.0 for size of reinforcement.
- Provide horizontal joint reinforcement at 16" o.c. Reinforcement shall be ladder design, min. 9 gage welded steel wire, hot dipped galvanized to 1.5 oz. width shall be 1 1/2" less than wall thickness.

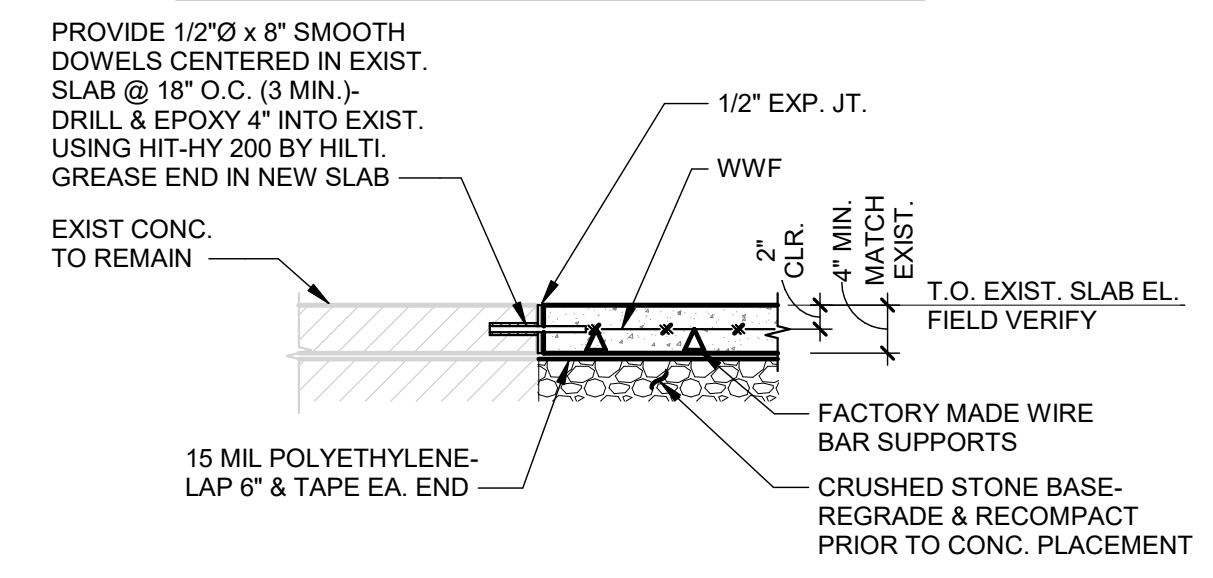
Structural Steel General Notes 5100:

- All detailing, fabrication and erection of structural steel shall conform to the requirements of the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings.
- Wide flanges shall conform to ASTM A992 with a yield strength of 50 ksi.
- Headed stud anchors (H.S.A.'s) shall conform to ASTM A108.
- All other structural steel shall conform to the requirements of ASTM A36.
- All welding shall conform to the Specifications of the American Welding Society. Welding electrodes shall be E-70 low hydrogen series. Welding shall be done by a certified welder.
- High strength bolts shall typically be 3/4" diameter bolts conforming to ASTM A325. Connections shall be designed as bearing type with threads in shear plane. Holes shall be 1/16" larger than bolt size.
- All bolts shall be tightened to a snug-tight condition. A snug tight condition is defined as the tightness attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench. All connected elements must be brought into snug contact.
- No openings shall be cut in structural members unless shown on the drawings.
- All exposed edges of plates, beams, etc., shall be shop ground smooth and uniform.

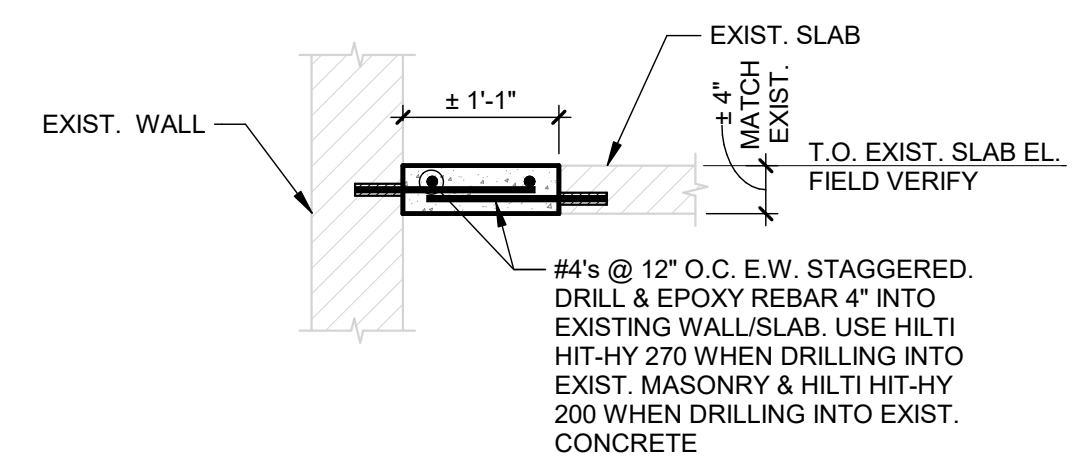
Design Loads

- Typical Roof Dead Load: 20 psf (PRESUMED)
- Roof Live Load: 20 psf
- Rain:
 - 15 - Minute Intensity: 7.07 in/hr
 - 60 - Minute Intensity: 3.68 in/hr
- Snow Load:
 - Ground Snow Load: 15 psf
 - Flat-roof Snow Load at main roof (P_f) = 11.6 psf
 - Slope Factor (C_s) = 1.0
 - Snow Exposure Factor (C_e) = 1.0
 - Snow Load Importance Factor (I_s) = 1.1
 - Thermal Factor (C_t) = 1.0
- Wind Load:
 - Ultimate Design Wind Speed (V_{ult}): 115 mph
 - Nominal Design Wind Speed (V_{nom}): 89.1 mph
 - Risk Category III
 - Wind Exposure B
 - Internal Pressure Coefficient, G_{Cp} = ±0.18
- Components & Cladding Wind Load (Unfactored):
 - Width of Edge Zone, a = 5.25 ft
 - Wall Pressures (10 ft²):
 - End Zone Wall = 33.5 psf
 - Interior Zone = 27.2 psf
 - Roof Pressures (100 ft²):
 - End Zone Wall = 26.1 psf
 - Interior Zone = 23.5 psf
 - Roof Pressures (10 ft²):
 - Corner Zone = 78.7 psf
 - Eave & Rake Zone = 57.7 psf
 - Interior Zone = 43.8 psf
 - Roof Pressures (100 ft²):
 - Corner Zone = 54.0 psf
 - Eave & Rake Zone = 45.4 psf
 - Interior Zone = 34.2 psf
- Seismic:
 - Risk Category III
 - Seismic Importance Factor (I_s) = 1.25
 - S_s = 0.158
 - S₁ = 0.091
 - S_{DS} = 0.169
 - S_{D1} = 0.146
 - Site Class D (presumed per IBC Sec. 1613.3.2)
 - Seismic Design Category C
 - Basic Structural System:
 - Seismic Resisting System:
 - Bearing Wall Systems
 - Intermediate Reinforced Masonry Shear Wall
 - Response Modification Coefficient (R): 3.5
 - Deflection Amplification Factor (C_d): 2.25
 - Seismic Response Coefficient (C_s): 0.0602
 - Analysis Procedure: Equivalent Lateral Force Procedure
- Building Code:
 - 2021 Arkansas Fire Prevention Code, Volume II (Incorporating IBC 2021)

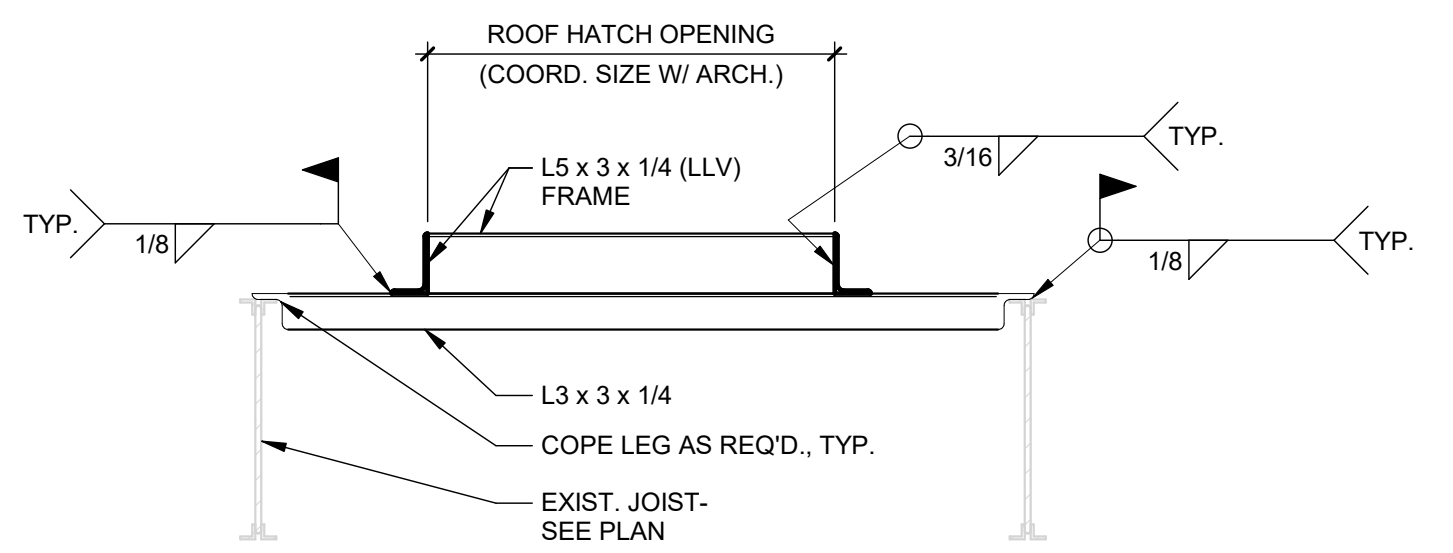
NOTES:
1. SEE ARCH. PLANS FOR EXTENT & LOCATION OF ALL REQUIRED SLAB REMOVAL.
2. DOWEL MUST BE LEVEL & SQUARE W/ JOIST.



1 TYP. FULL DEPTH SLAB REPLACEMENT
NOT TO SCALE



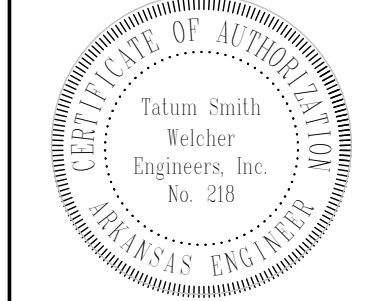
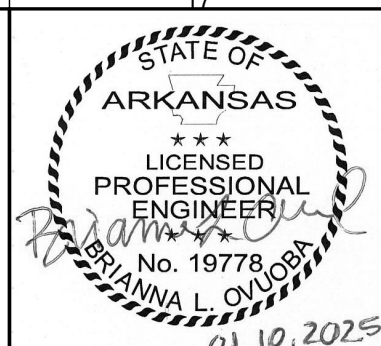
2 SLAB INFILL OVER TUNNEL
NOT TO SCALE



3 TYP. ROOF HATCH OPENING DETAIL @ EXIST. ROOF
NOT TO SCALE

TYPICAL STRUCTURAL ABBREVIATIONS

A.R.	ANCHOR ROD	F.S.	FAR SIDE	PLF	POUNDS PER FOOT
ACI	AMERICAN CONCRETE INSTITUTE	F.V.	FIELD VERIFY	PROJ	PROJECTION
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FDN	FOUNDATION	PSF	POUNDS PER SQUARE FOOT
ARCH	ARCHITECT	FIN	FINISH	PSI	POUNDS PER SQUARE INCH
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FLR	FLOOR	R	RADIUS
BLDG	BUILDING	FTG	FOOTING	REINF	REINFORCEMENT
BM	BEAM	GA	GAUGE	REQD	REQUIRED
BOTT	BOTTOM	GALV	GALVANIZED	RTU	ROOF TOP UNIT
BRS	BEARING	H.S.A.	HEADED STUD ANCHOR	S.O.G.	SLAB ON GRADE
BTWN	BETWEEN	HK	HOOK	SCHED	SCHEDULE
CFS	COLD-FORMED STEEL	HORIZ	HORIZONTAL	SECT	SECTION
CL	CENTER LINE	J.B.E.	JOIST BEARING ELEVATION	SEOR	STRUCTURAL ENGINEER OF RECORD
CLR	CLEAR	JST	JOIST	SIM	SIMILAR
COL	COLUMN	JT	JOINT	SJI	STEEL JOIST INSTITUTE
CONC	CONCRETE	L	ANGLE	SPA	SPACING
CONN	CONNECTION	LG	LONG	SPECS	SPECIFICATIONS
CONT	CONTINUOUS	LLH	LONG LEG HORIZONTAL	STD	STANDARD
DEFL.	DEFLECTION	LLV	LONG LEG VERTICAL	STIFF	STIFFENER
DIA. or Ø	DIAMETER	LONG	LONGITUDINAL	STL	STEEL
DIM	DIMENSION	MAX	MAXIMUM	TOC	TOP OF CONCRETE
DN	DOWN	MBM	METAL BUILDING MANUFACTURER	TOF	TOP OF FOOTING
do	DITTO	MECH	MECHANICAL	TOS	TOP OF STEEL
DTL	DETAIL	MFR	MANUFACTURER	TOW	TOP OF WALL
DWG	DRAWING	MIN	MINIMUM	TRANS	TRANSVERSE
E.F.	EACH FACE	MISC	MISCELLANEOUS	TYP	TYPICAL
E.W.	EACH WAY	MTL	METAL	U.N.O.	UNLESS NOTED OTHERWISE
EA	EACH	N.S.	NEAR SIDE	VERT	VERTICAL
EL	ELEVATION	O.C.	ON CENTER	W	WITH
EQ	EQUAL	O.F.	OUTSIDE FACE	WP	WORK POINT
EXIST	EXISTING	OPNG	OPENING	WWF	WELDED WIRE FABRIC
EXP	EXPANSION	PED	PEDESTAL		
		PL	PLATE		



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A NEW FACILITY FOR
K-5 ALE at Tillery
ROGERS, ARKANSAS

DRAWN BY: DAZ
CHECK BY: BLO
ISSUE DATE: 12/16/2024

PROJECT NO: 2422

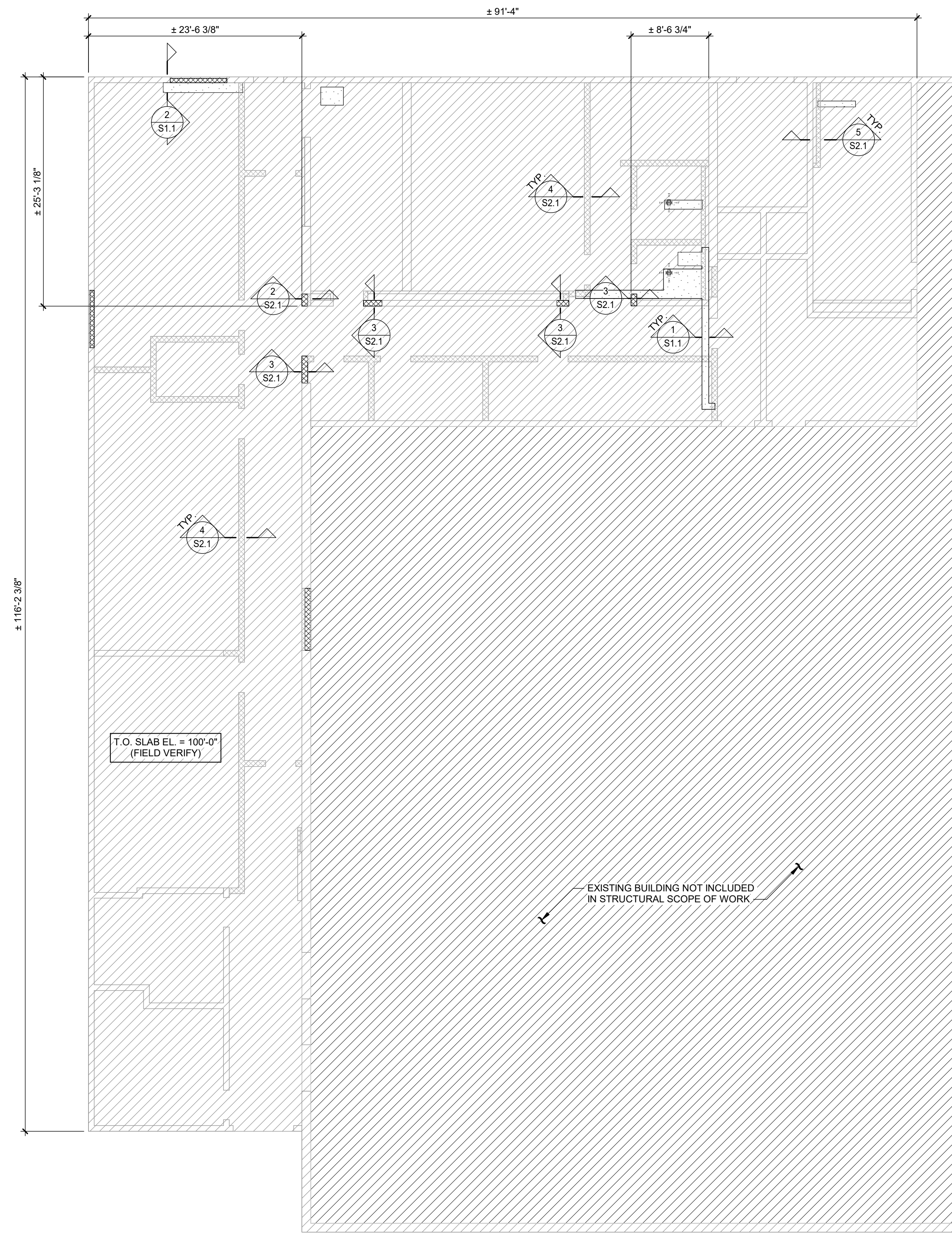
REVISION DATES: 01/13/2025

GENERAL NOTES & TYP. DETAILS

SHEET
S1.1

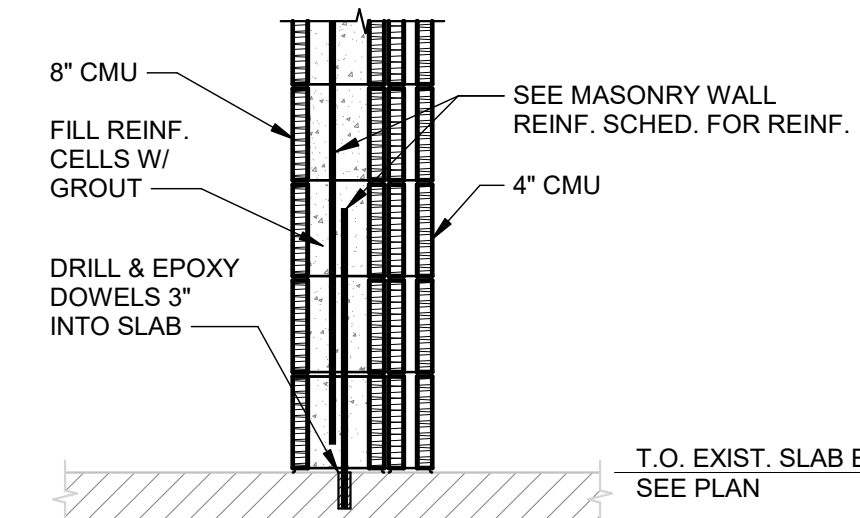
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TSW #: 24164 PM: BLO DE: DAZ

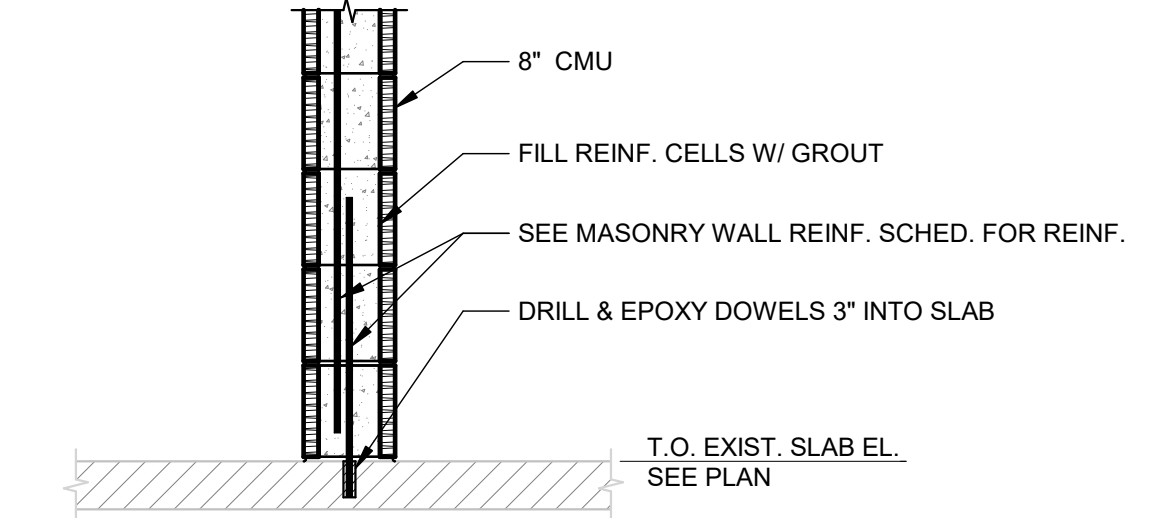


1 FOUNDATION PLAN
1/8" = 1'-0"

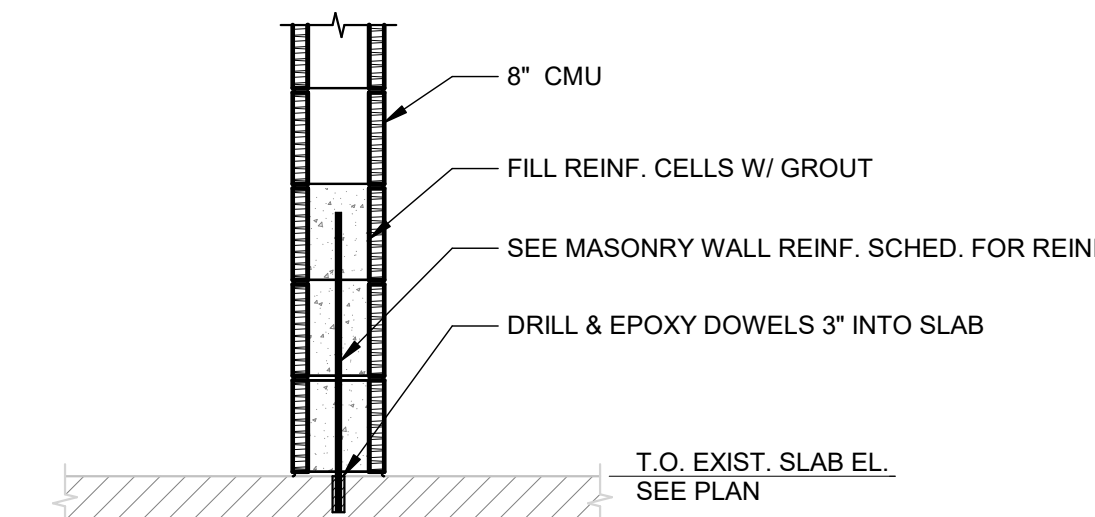
2 SECTION
3/4" = 1'-0"



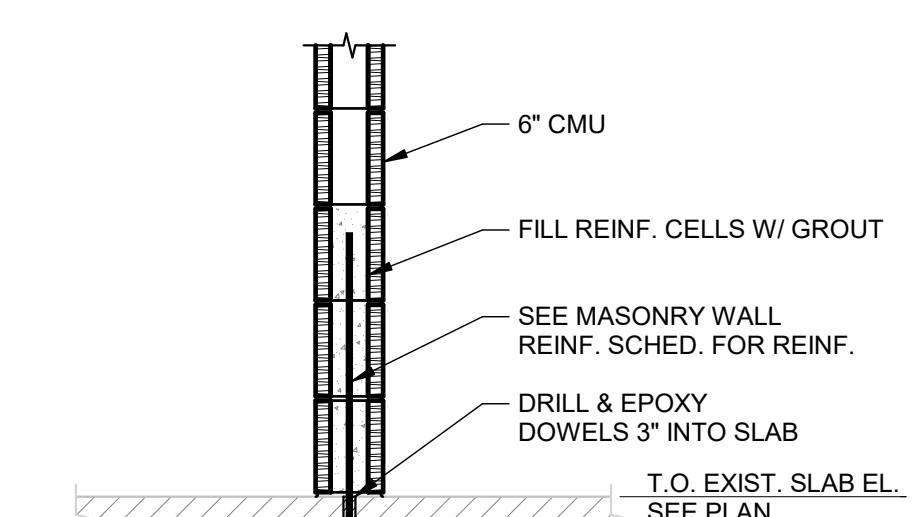
3 SECTION
3/4" = 1'-0"



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



5 SECTION
3/4" = 1'-0"



- LEGEND:**
- O.F. DENOTES OUTSIDE FACE
 - ± DENOTES DIMENSION OR ELEVATION TO BE FIELD VERIFIED
 - ⊕ DENOTES FLOOR DRAIN. PROVIDE 2" DIA. DISH
 - ▨ DENOTES LIMITS EXISTING SLAB
 - ▩ DENOTES SLAB INFILL (SEE DETAIL 1/S1.1 U.N.O.)
 - DENOTES EXISTING CMU WALL
 - ▧ DENOTES NEW LOAD-BEARING CMU WALL
 - ▦ DENOTES NEW NON-LOAD-BEARING CMU WALL
 - 100'-0" DENOTES TOP OF SLAB EL.

- PLAN NOTES:**
1. ALL ELEVATIONS BASED ON FINISH FLOOR EL. 100'-0".
 2. SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN.
 3. COORDINATE LOCATION & LIMITS OF VENEER WITH ARCH. DWGS.
 4. COORDINATE DOOR LOCATIONS WITH ARCH. DWGS.
 5. SEE ARCH. DWGS. FOR LOCATIONS OF NON-LOAD-BEARING MASONRY WALLS BEARING ON EXISTING SLABS.
 6. SEE DWG. S1.1 FOR GENERAL NOTES & TYP. DETAILS.

- NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY.
 2. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AND DIMENSIONS PRIOR TO SETTING CONCRETE REINFORCEMENT AND FORM WORK.
 3. BEGINNING OF STEEL FABRICATION AND PLACEMENT OF CONCRETE CONSTITUTES CONTRACTOR ACCEPTANCE OF EXISTING CONDITIONS.

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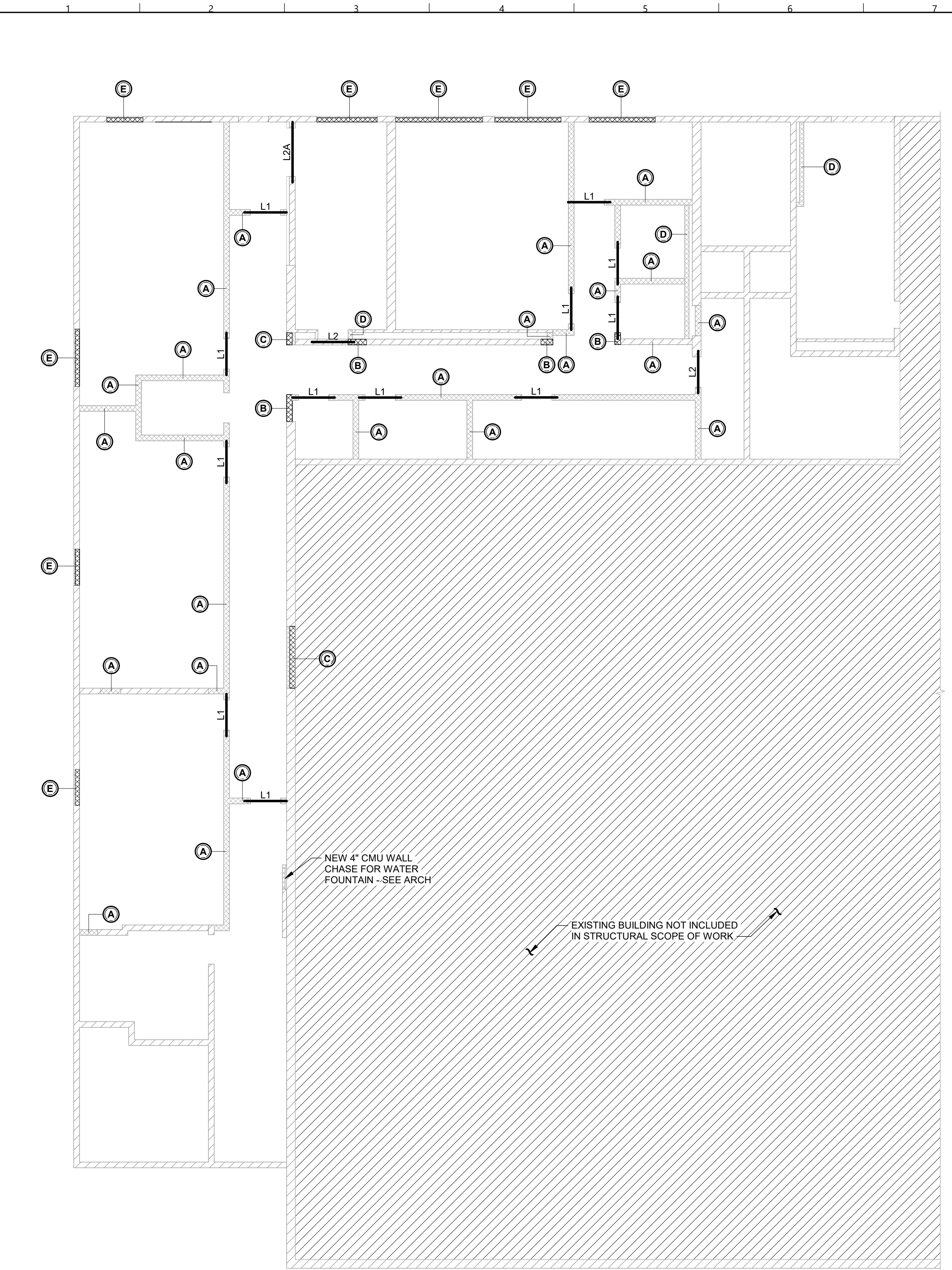
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19778
01.10.2025
Tatum Smith Welcher Engineers, Inc.
No. 218
ARKANSAS ENGINEER

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A NEW FACILITY FOR
K-5 ALE at Tillery
ROGERS, ARKANSAS

DRAWN BY: DAZ
CHECK BY: BLO
ISSUE DATE: 12/16/2024
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FOUNDATION PLAN
SHEET
S2.1
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1 LINTEL & MASONRY PLAN
 1/8" = 1'-0"

LEGEND:

L1 DENOTES LINTEL MARK, SEE LINTEL SCHED.

--- DENOTES EXISTING CMU WALL

--- DENOTES NEW LOAD-BEARING CMU WALL

--- DENOTES NEW NON-LOAD-BEARING CMU WALL

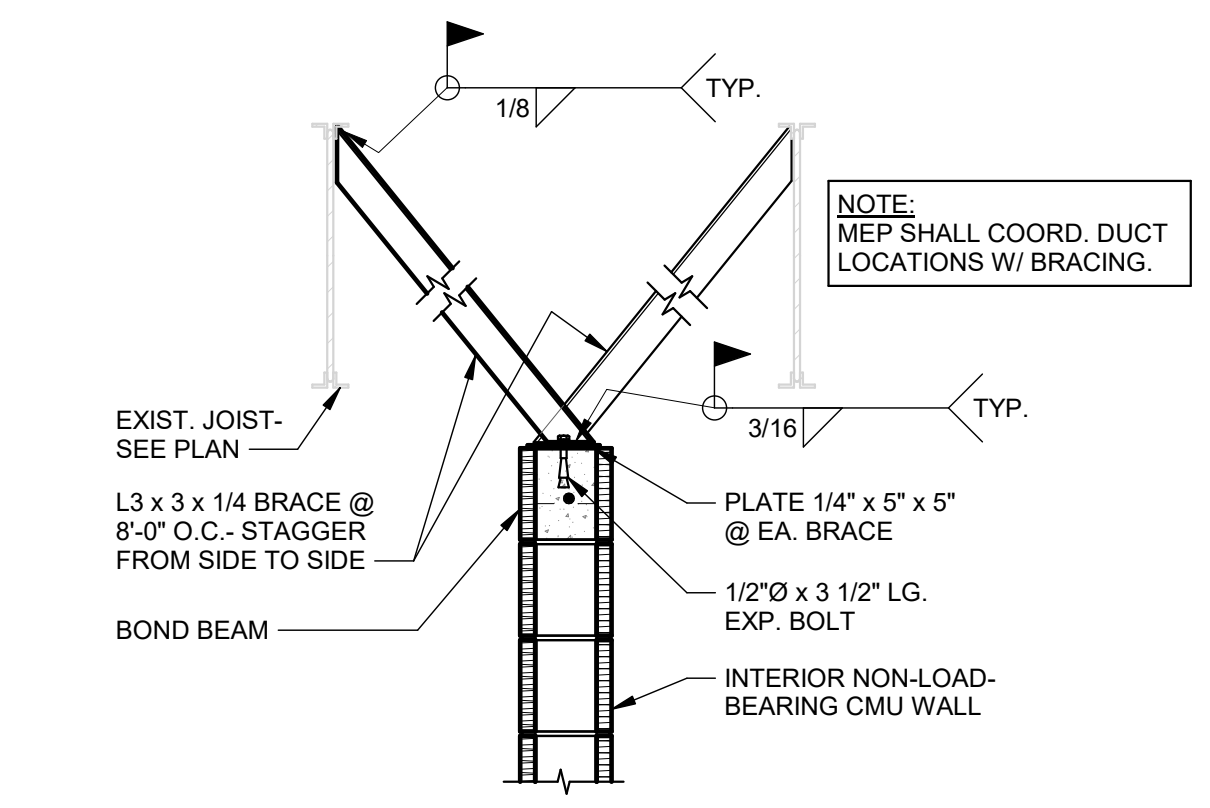
A DENOTES MASONRY WALL REINF. MARK, SEE MASONRY WALL REINF. SCHED.

PLAN NOTES:
 1. SEE DWGS. S1.1 & S1.2 FOR GENERAL NOTES & TYP. DETAILS.

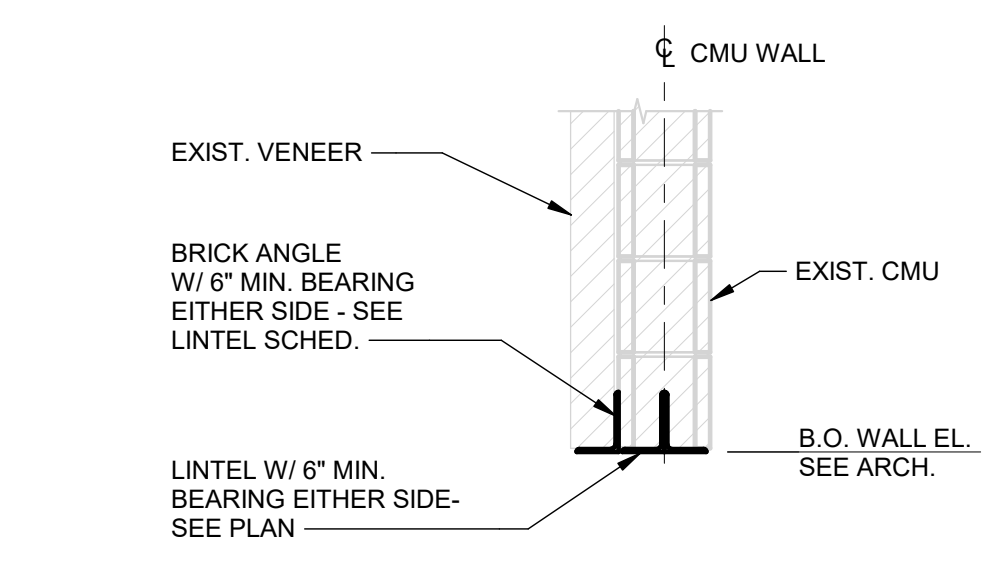
LINTEL SCHEDULE

MARK	WALL LOCATIONS	TYPE & SIZE (THICKNESS x HEIGHT)	REINFORCEMENT OR ATTACHMENT	BRICK ANGLE OR PLATES	REMARKS
L1	8" CMU	CMU 8" x 8" BOND BM.	(1) #5 BOTT.	---	SEE NOTES #1, #2, #4, #5 & #6
L2	8" CMU	(2) L5 x 3 1/2 x 1/4 (LLV)	---	---	SEE NOTES #1, #2 & 3/S3.0
L2A	8" CMU	(2) L5 x 3 1/2 x 1/4 (LLV)	---	L5 x 3 1/2 x 1/4 (LLV)	SEE NOTES #1, #2, #3 & 3/S3.0

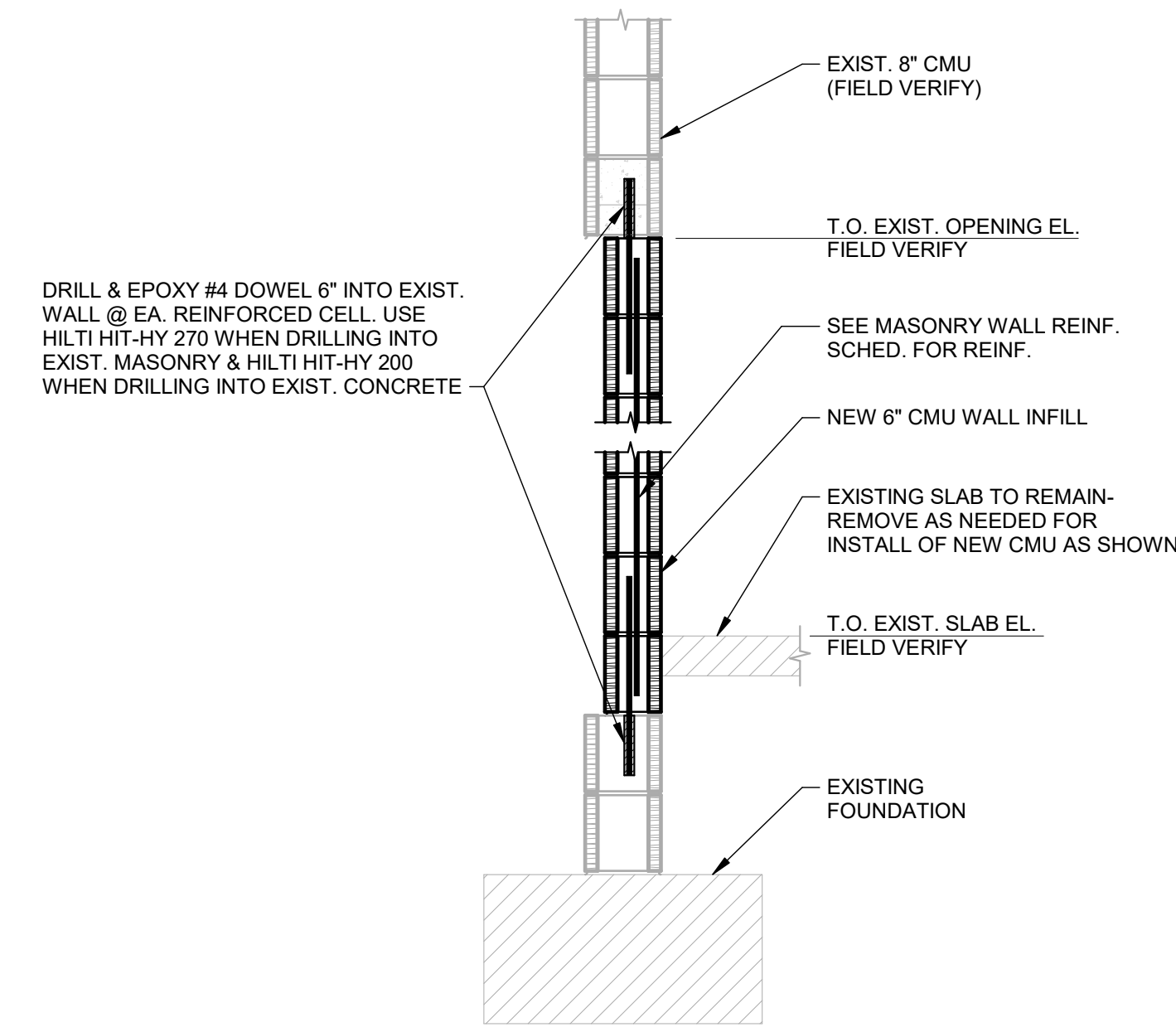
- LINTEL SCHEDULE NOTES:**
- SEE ARCH. DWGS. FOR EXACT LOCATION OF ALL LINTELS.
 - COORDINATE ALL BOTTOM PLATE/BEAM/CMU/ANGLE ELEVATIONS WITH ARCH. DWGS.
 - BRICK LINTELS SHALL HAVE 6" MIN. BEARING EACH SIDE OF OPENING.
 - ALL CMU LINTELS SHALL HAVE 8" MIN. BEARING EACH SIDE OF OPENING.
 - FILL ALL CMU LINTELS WITH 2,000 PSI GROUT.
 - ALL 8" CMU LINTELS SHALL HAVE A MIN. (1) CELL OF (1) #5 JAMB STEEL EACH SIDE OF OPENING.
 - WHERE MECHANICAL DUCTS PASS THROUGH MASONRY WALLS, PROVIDE L1 LINTEL AT 8" CMU WALLS FOR OPENINGS NOT TO EXCEED 4'-0" WIDE. FOR OPENING WIDTHS LARGER THAN 4'-0", COORDINATE WITH ARCH./ENGINEER.



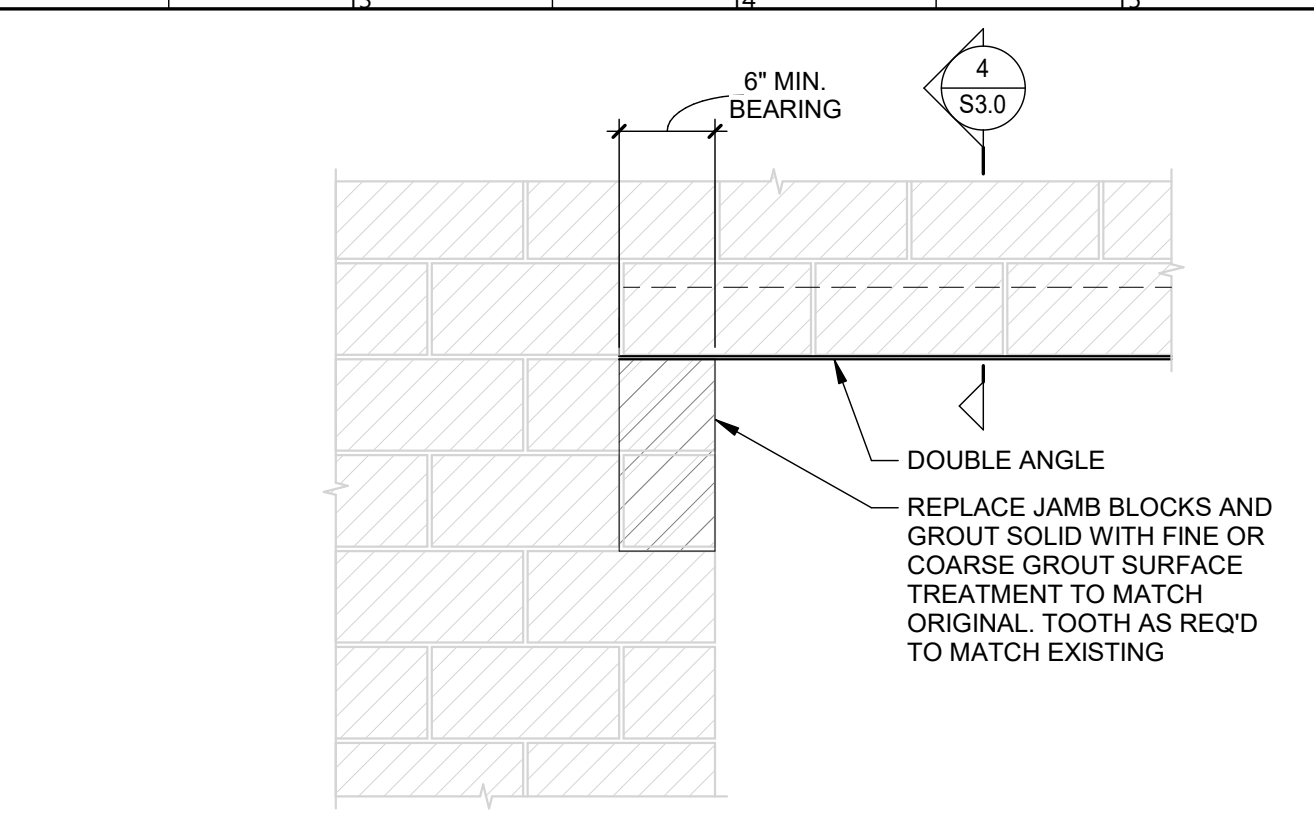
2 TYP. NON LOAD BEARING CMU WALL BRACING
 3/4" = 1'-0"



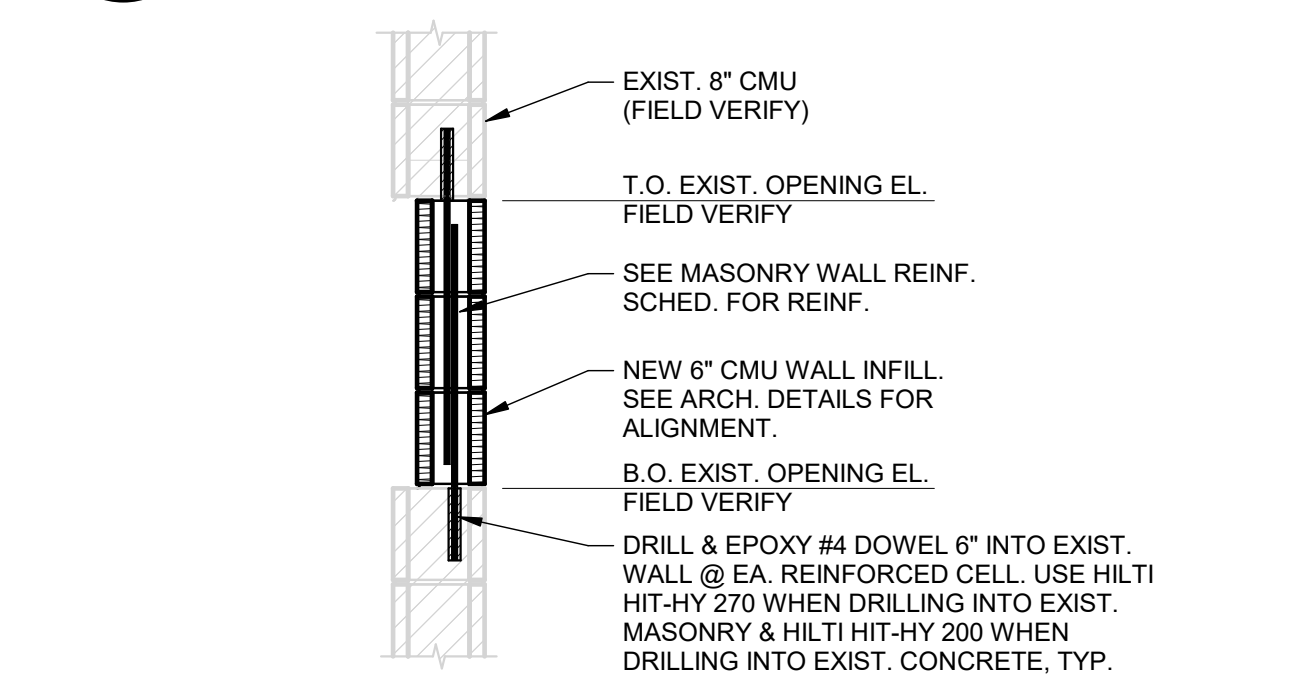
4 NEW CMU OPNG ANGLE LINTEL @ EXIST 8" CMU
 3/4" = 1'-0"



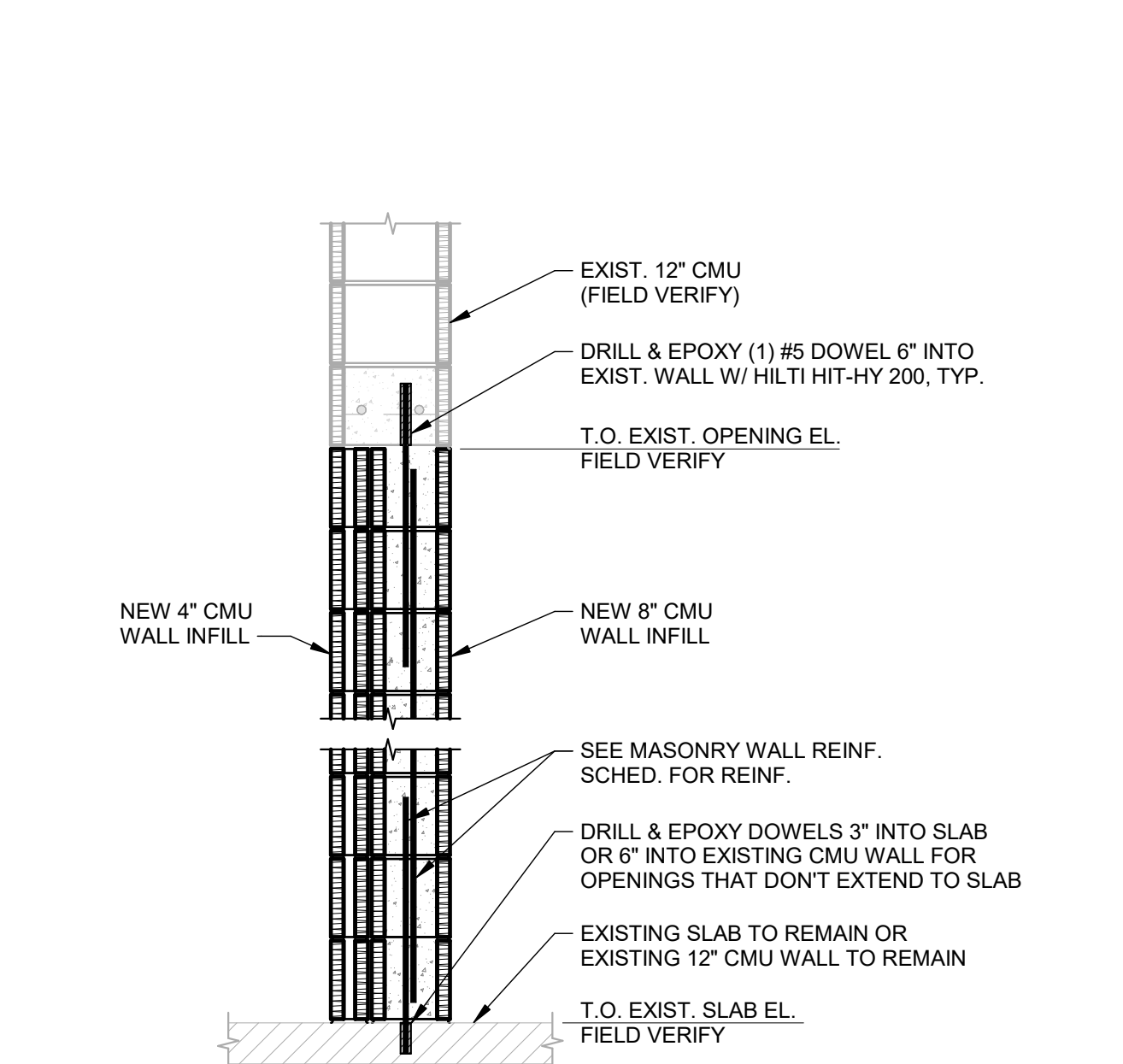
6 TYP. 6" CMU INFILL AT EXTERIOR DOORS
 3/4" = 1'-0"



3 NEW OPENING IN EXISTING 8" MASONRY WALL DETAIL
 3/4" = 1'-0"



5 TYP. 6" CMU INFILL AT EXTERIOR WINDOWS AND LOUVERS
 3/4" = 1'-0"



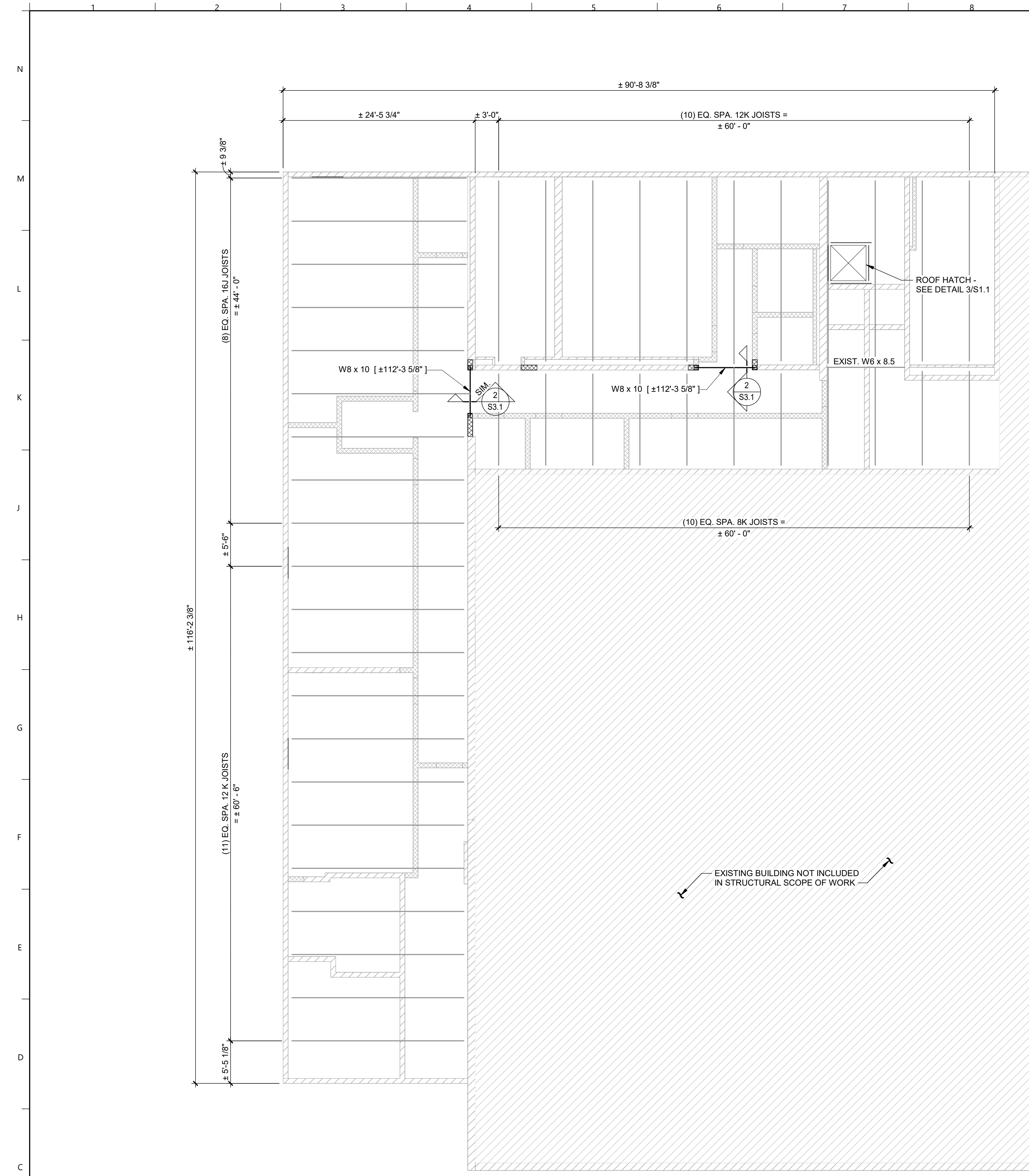
7 TYP. 8" CMU INFILL AT 12" CMU WALLS
 3/4" = 1'-0"

MASONRY WALL REINFORCEMENT SCHEDULE

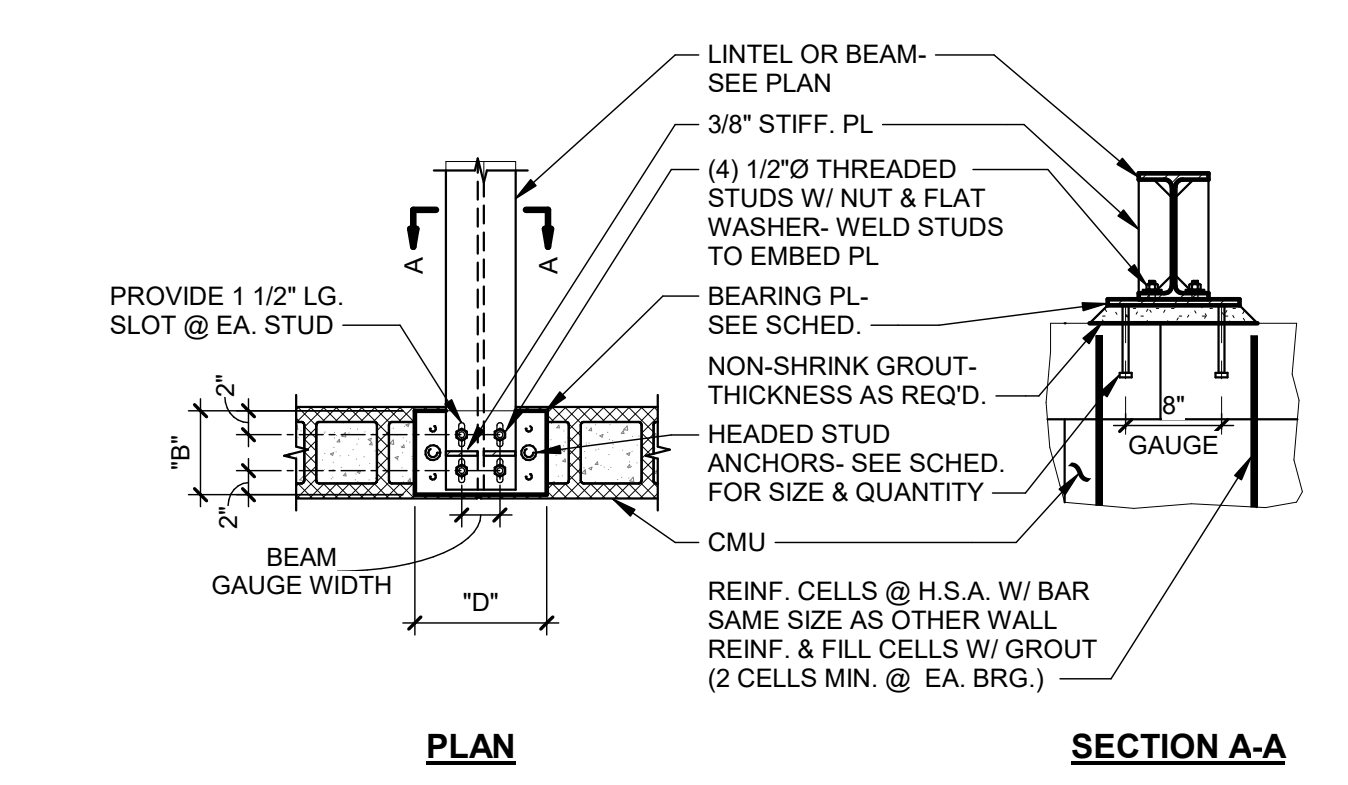
MARK	WALL LOCATION	BOND BEAM REINF.	BOND BEAM LOCATIONS	VERT. REINF.	FOUNDATION / BOTTOM DOWELS	REMARKS
A	8" CMU	(1) #4 BOTT.	TOP OF WALL	NONE	#5 x 2'-6" DOWEL @ 48" O.C. CENTER IN WALL	SEE NOTES
B	8" CMU	(1) #4 BOTT.	TOP OF WALL	#5 @ 24" O.C.	#5 x 2'-6" DOWEL @ 24" O.C. CENTER IN WALL	SEE NOTES
C	8" CMU + 4" CMU	(1) #4 BOTT.	TOP OF WALL	#5 @ 24" O.C.	#5 x 2'-6" DOWEL @ 24" O.C. CENTER IN WALL	SEE NOTES
D	6" CMU	(1) #4 BOTT.	TOP OF WALL	NONE	#4 x 2'-0" DOWEL @ 48" O.C. CENTER IN WALL	SEE NOTES
E	6" CMU INFILL	(1) #4 BOTT.	TOP OF WALL	#4 @ 24" O.C.	#4 x 2'-0" DOWEL @ 24" O.C. CENTER IN WALL	SEE NOTES

- MASONRY WALL REINFORCEMENT SCHEDULE NOTES:**
- WHERE TOP OF WALL IS UNSUPPORTED BY THE ROOF FRAMING, BRACE TOP OF WALL WITH DIAGONAL L3 x 3 x 1/4 WELDED TO THE ROOF FRAMING ABOVE AT 8'-0" O.C. MAXIMUM (SEE DTL. 2/S3.0).
 - UNO AT SLAB-ON-GRADE DRILL AND EPOXY DOWELS 3" INTO SLAB (SEE DETAILS 2, 3, 4, & 5/S2.1).
 - SEE DETAILS FOR CMU WALL INFILL DETAILS.
 - SEE DETAILS FOR DRILL & EPOXY DEPTH.

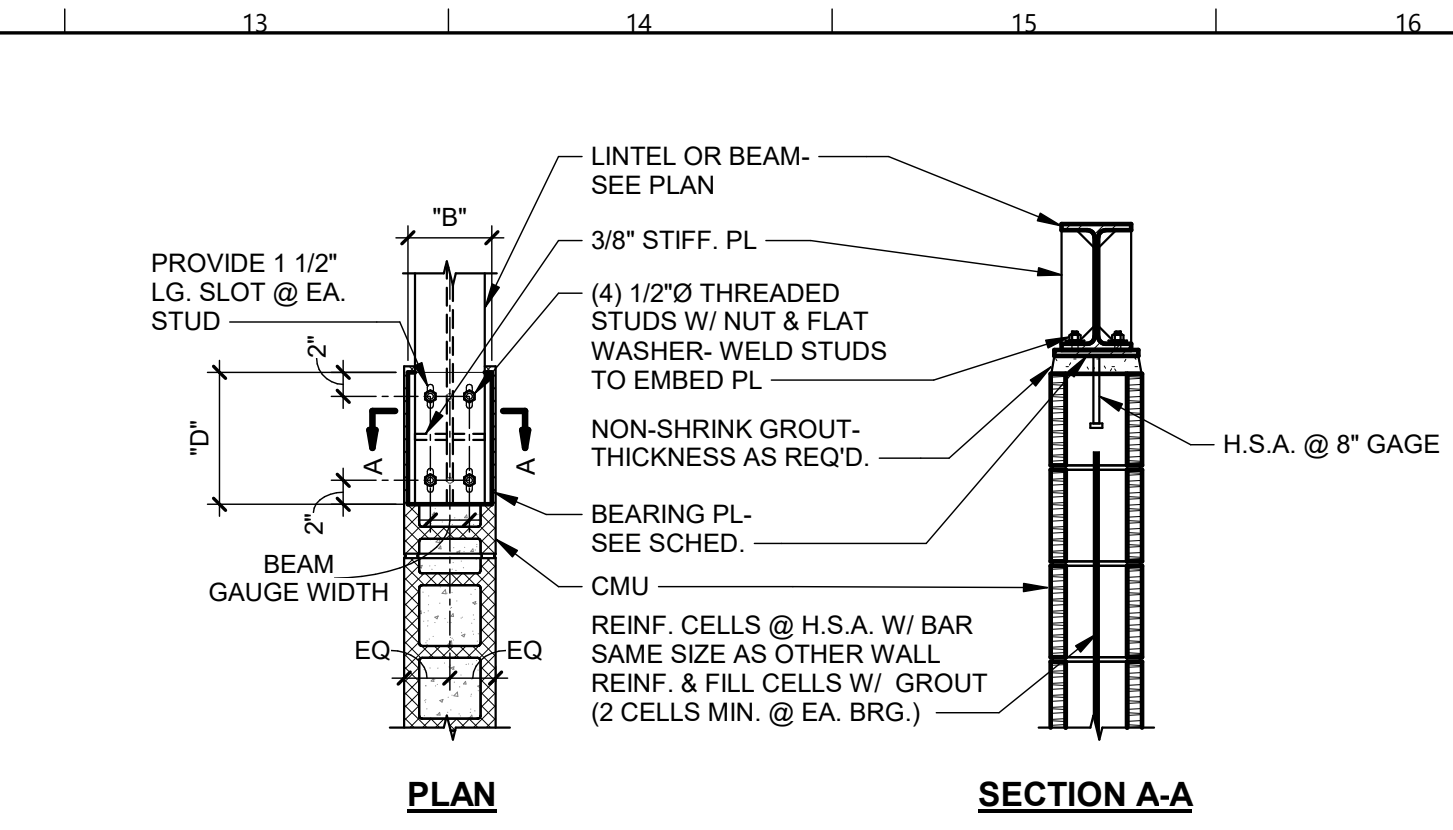
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2 TYP. INTR. BEAM & JOIST @ ROOF
3/4" = 1'-0"



4 TYP. WF LINTEL & BEAM BEARING PLATE DETAILS
3/4" = 1'-0"



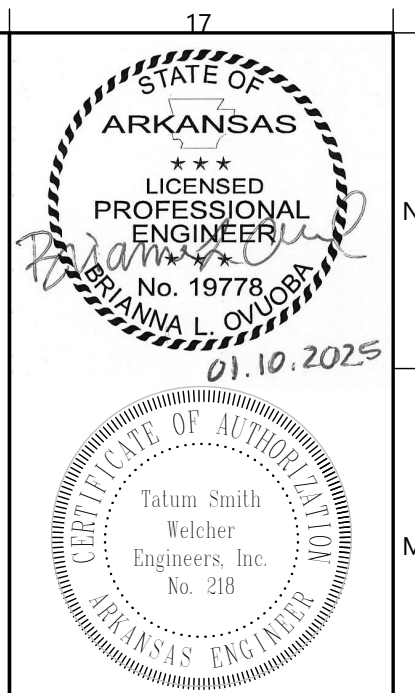
3 TYP. WF LINTEL & BEAM BEARING PLATE DETAILS
3/4" = 1'-0"

BEARING PLATE SCHEDULE					
LINTEL/BEAM SIZE	LINTEL BRG. PL SIZE (L x B x D)	BEAM BRG. PL SIZE (L x B x D)	HEADED STUD ANCHORS	SEE DTL.	REMARKS
W8x10	3/8" x 7" x 11"	3/8" x 7" x 11"	(2) 1/2"Ø x 6" H.S.A.	3/S3.1	8" CMU WALL
W8x10	3/8" x 7" x 11"	3/8" x 7" x 11"	(2) 1/2"Ø x 6" H.S.A.	4/S3.1	8" CMU WALL

- LEGEND:**
- O.F. DENOTES OUTSIDE FACE
 - [112'-3 5/8"] DENOTES TOP OF BEAM ELEVATION
 -
 - DENOTES FRAMED OPENING IN ROOF - COORDINATE SIZE & LOCATION W/ ARCH. (SEE DTL. 3/S1.1)
 -
 - DENOTES EXISTING CMU WALL
 -
 - DENOTES LOAD-BEARING CMU WALL
 -
 - DENOTES NON-LOAD-BEARING CMU WALL
 - ± DENOTES DIMENSIONS TO BE FIELD VERIFIED

- PLAN NOTES:**
1. TOP OF STL. EL. 112'-3 5/8" (TYP. U.N.O.)
 2. ALL ELEVATIONS BASED ON FINISH FLOOR EL. 100'-0"
 3. SEE DWG. S1.1 FOR GENERAL NOTES & TYPICAL DETAILS.
 4. SEE ARCH. DWGS. & FOUNDATION PLAN FOR DIMENSIONS NOT SHOWN.
 5. SEE DWG. S3.0 FOR LINTEL PLANS & DETAILS.

1 ROOF FRAMING PLAN
1/8" = 1'-0"



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ROOF FRAMING PLAN & DETAILS

SHEET
S3.1

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TSW #: 24164 PM: BLO DE: DAZ

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GENERAL PLUMBING NOTES

- ALL PLUMBING MATERIALS AND INSTALLATION SHALL COMPLY WITH THE ARKANSAS STATE PLUMBING CODE, LATEST EDITION.
- INSTALL ALL DOMESTIC HOT AND COLD WATER PIPING AS PER STATE AND LOCAL CODES.
- INSULATE ABOVE GRADE CONCEALED DOMESTIC HOT AND COLD WATER LINES PER SPECIFICATIONS, SECTION 22 07 19.
- INSTALL DEEP SEAL TRAPS AT ALL DRAIN CONNECTIONS.
- WHERE FIRE RATED PARTITIONS OR FLOORS OCCUR, ALL FLOOR TO FLOOR AND ROOM TO ROOM PENETRATIONS SHALL BE PROPERLY FIRE SEALED WITH U.L. LISTED AND CLASSIFIED FIRE CAULK OR FIRE SEALED BY USING AN APPROVED FIRE SEALING METHOD WHICH MEETS U.L. REQUIREMENTS. ALL OTHER PENETRATIONS OF RATED CHASES OR WALLS SHALL BE PROPERLY FIRE SEALED AND WHERE EXTENDING THROUGH SUCH RATED SURFACE SHALL BE A RATED FIRE STOP PENETRATION. ALL FIRE STOPPING, FIRE CAULKING AND FIRE SLEEVING OR OTHER FIRE SEALING SHALL BE ACCEPTABLE BY THE LOCAL AUTHORITIES AND SHALL BEAR THE U.L. SEAL.
- INSTALL DOMESTIC WATER LINES TIGHT AGAINST BUILDING ROOF STRUCTURE.
- VERIFY LOCATION, INVERT AND SIZE OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- PROVIDE CITY APPROVED REDUCED PRESSURE BACKFLOW PREVENTERS ON ALL DOMESTIC SERVICE LINES CONNECTED TO ALL DEVICES, APPLIANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTILLATION, PROCESSING, COOLING OR STORAGE OF FOODS OR ICE, WATER PUMPS, FILTERS, SOFTENERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION WITH SIMILAR BACKFLOW PREVENTER.
- CONDENSATE PIPING FROM ROOF TOP AIR CONDITIONERS AND FAN COIL UNITS SHALL BE SCHEDULE 40 P.V.C. PROVIDE CONDENSATE TRAP. ROUTE CONDENSATE LINE TO NEAREST ROOF DRAIN OR GUTTER.
- ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE ARKANSAS STATE MECHANICAL CODE.
- ALL WATER AND SEWER LINE MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THE CITY OF ROGERS STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION AS WELL AS THE ARKANSAS STATE PLUMBING CODE.
- HORIZONTAL BRANCHES SHALL CONNECT TO HORIZONTAL STACK OFFSETS AND TO THE BASES OF STACKS AT A POINT LOCATED NOT LESS THAN 10 PIPE DIAMETERS DOWNSTREAM FROM THE STACK.
- CONTRACTOR SHALL PROVIDE "AS BUILT" DRAWINGS OF ALL PLUMBING AND PIPING SYSTEMS UPON COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS, THE BUILDING SITE, AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. IF CONTRACTOR HAS QUESTIONS REGARDING ASSETS OR LAYOUTS WITH THE PROJECT HE SHALL MAKE THEM KNOWN TO THE ENGINEER IN WRITING PRIOR TO BIDDING THE PROJECT. CLAIMS MADE SUBSEQUENT TO THE BID WILL NOT BE ACCEPTED IF IT IS DETERMINED THAT PROPER FAMILIARIZATION COULD HAVE AVOIDED SUCH CLAIM.
- COMPLY WITH STATE OF ARKANSAS ADOPTED ADA ACCESSIBLE GUIDELINES IN REGARD TO ACCESSIBLE FEATURES.
- PROVIDE DRIP PAN FOR ENTIRE LENGTH OF PIPE WHERE PIPE MUST BE INSTALLED ABOVE ELECTRICAL EQUIPMENT.
- MECHANICAL CONTRACTOR MUST REVIEW ALL ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND FLOOR DRAINS. IF PLUMBING FIXTURES OR DRAINS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS THEY MUST BE INCLUDED IN THE CONTRACT EVEN IF NOT SHOWN ON THE MECHANICAL DRAWINGS.
- DO NOT SCALE DIRECTLY FROM THE PLUMBING DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.
- ALL PLUMBING SANITARY WASTE AND VENT PIPING INSTALLED IN FIRE RATED WALLS OR PLENUM RETURN AIR SYSTEMS SHALL BE CAST IRON. REFER TO ARCHITECTURAL PLANS FOR LIFE SAFETY INFORMATION.

PLUMBING KEYED NOTES

- INSTALL AN APPROVED TRAP GUARD PRODUCT THAT CONFORMS TO NSF-14, CSA B602-99 AND CSA B79-94.
- MECHANICAL CONTRACTOR SHALL NOT INSTALL ANY WATER LINES ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL PLANS FOR PANEL LOCATIONS.
- MECHANICAL CONTRACTOR TO PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) AND PRESSURE REDUCING VALVE (IF REQUIRED) AT THE DOMESTIC WATER SERVICE ENTRANCE IN BUILDING. THERE SHALL BE NO WYES OR TEES PRIOR TO THE RPZ. PROVIDE MATTS MODEL LF40RM1GT OR APPROVED EQUAL RPZ. REFER TO 10/P3.1 FOR DETAIL.
- MECHANICAL CONTRACTOR SHALL NOT INSTALL ANY WATER LINES ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL PLANS FOR PANEL LOCATIONS.
- PROVIDE AND INSTALL 6 INCH DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS. REFER TO DETAIL 8/P3.1.
- ROUTE COLD WATER LINE BACK DOWN TO BELOW SLAB TO RE-FEED EXISTING COLD WATER LINE IN TUNNEL.

PLUMBING LEGEND

	SANITARY WASTE PIPING
	EXISTING SANITARY WASTE PIPING
	VENT PIPING
	EXISTING VENT PIPING
	COLD WATER PIPING
	EXISTING COLD WATER PIPING
	HOT WATER PIPING
	MEDIUM PRESSURE GAS PIPING (5 PSIG)
	LOW PRESSURE GAS PIPING (11 IN. W.C.)
	EXISTING LOW PRESSURE GAS PIPING
	CONDENSATE DRAIN PIPING
	PIPING TO BE REMOVED
	GAS REGULATOR EQUAL TO SENSUS 243
	GAS BALL VALVE
	BALL VALVE
	CONNECTION POINT
	FIXTURES TO BE REMOVED
	WATER HAMMER ARRESTOR (SIZE PER MANUFACTURER'S RECOMMENDED FIXTURE UNIT CAPACITY)
	REFER TO KEYED NOTES
	PLUMBING FIXTURE NUMBER (REFER TO PLUMBING FIXTURE SCHEDULE)
	FLOOR DRAIN
	FLOOR SINK
	ACCESSIBLE
	WALL CLEAN OUT
	CLEAN OUT TO GRADE
	SANITARY SEWER

PLUMBING FIXTURE SCHEDULE								
MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	CONNECTION			REMARKS / ACCESSORIES
					C/W	H/W	SS	
P-1	ACCESSIBLE WATER CLOSET	AMERICAN STANDARD	3461.001	FLOOR	1-1/2	-	4	WHITE VITREOUS CHINA, LOW CONSUMPTION, ELONGATED BOWL, FLUSH VALVE TOILET. PROVIDE SLOAN ROYAL #111 ES-5 SENSOR OPERATED, FLUSH VALVE, OLSONITE #10 SCC OPEN SEAT AND SLOAN YJ TYPE PIPE SUPPORT. PROVIDE BLOCKING IN WALL AS REQUIRED FOR INSTALLATION OF YJ PIPE SUPPORT. PROVIDE ELECTRICAL BOX POSITIONING AND SUPPORT KIT WITH FLUSH VALVE. MOUNT 17" FROM TOP OF SEAT TO FLOOR. MOUNT GRAB BARS A MAXIMUM OF 36 IN. A.F.F.
P-2	ACCESSIBLE CHILD HEIGHT WATER CLOSET	AMERICAN STANDARD	2599.001	FLOOR	1-1/2	-	4	WHITE VITREOUS CHINA, LOW CONSUMPTION, ELONGATED BOWL, FLUSH VALVE TOILET. PROVIDE SLOAN ROYAL #111 ES-5 SENSOR OPERATED, FLUSH VALVE, OLSONITE #10 SCC OPEN SEAT AND SLOAN YJ TYPE PIPE SUPPORT. PROVIDE BLOCKING IN WALL AS REQUIRED FOR INSTALLATION OF YJ PIPE SUPPORT. PROVIDE ELECTRICAL BOX POSITIONING AND SUPPORT KIT WITH FLUSH VALVE. MOUNT 15" FROM TOP OF SEAT TO FLOOR. MOUNT GRAB BARS AT 25 IN. A.F.F. MOUNT FLUSH VALVE AT 22 A.F.F. OR AS REQUIRED TO COORDINATE WITH GRAB BARS.
P-3	WATER CLOSET	AMERICAN STANDARD	2234.001	FLOOR	1-1/2	-	4	WHITE VITREOUS CHINA, LOW CONSUMPTION, ELONGATED BOWL, FLUSH VALVE TOILET. PROVIDE SLOAN ROYAL #111 ES-5 SENSOR OPERATED FLUSH VALVE, OLSONITE #10 SCC OPEN SEAT AND SLOAN YJ TYPE PIPE SUPPORT. PROVIDE BLOCKING IN WALL AS REQUIRED FOR INSTALLATION OF YJ PIPE SUPPORT. PROVIDE ELECTRICAL BOX POSITIONING AND SUPPORT KIT WITH FLUSH VALVE. MOUNT 15" FROM TOP OF SEAT TO FLOOR.
P-4	ACCESSIBLE LAVATORY	AMERICAN STANDARD	0955.012	WALL	1/2	1/2	1-1/4	WHITE VITREOUS CHINA LAVATORY WITH FAUCET LEDGE AND BACK SPLASH. PROVIDE SLOAN ETF-600 SENSOR OPERATED FAUCET, GRID DRAIN, MADE #520 WALL CARRIER, HANDLAV MOLDED DRAIN & SUPPLY INSULATION KIT. MOUNT 34 IN. A.F.F. TO TOP OF RIM. PROVIDE HARDWIRED TRANSFORMER. PROVIDE MATTS LFMMV THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE TO 105 DEGREES F.
P-5	ACCESSIBLE CHILD HEIGHT LAVATORY	AMERICAN STANDARD	0955.012	WALL	1/2	1/2	1-1/4	WHITE VITREOUS CHINA LAVATORY WITH FAUCET LEDGE AND BACK SPLASH. PROVIDE SLOAN ETF-600 SENSOR OPERATED FAUCET, GRID DRAIN, MADE #520 WALL CARRIER, HANDLAV MOLDED DRAIN & SUPPLY INSULATION KIT. MOUNT 31 IN. A.F.F. TO TOP OF RIM. PROVIDE HARDWIRED TRANSFORMER. PROVIDE MATTS LFMMV THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE TO 105 DEGREES F.
P-6	CHILD HEIGHT LAVATORY	AMERICAN STANDARD	0955.012	WALL	1/2	1/2	1-1/4	WHITE VITREOUS CHINA LAVATORY WITH FAUCET LEDGE AND BACK SPLASH. PROVIDE SLOAN ETF-600 SENSOR OPERATED FAUCET, GRID DRAIN, MADE #520 WALL CARRIER, HANDLAV MOLDED DRAIN & SUPPLY INSULATION KIT. MOUNT 31 IN. A.F.F. TO TOP OF RIM. PROVIDE HARDWIRED TRANSFORMER. PROVIDE MATTS LFMMV THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE TO 105 DEGREES F.
P-7	ACCESSIBLE STAINLESS STEEL SINK	JUST MFG.	SL-2125-A-GR	COUNTER	1/2	1/2	1-1/2	SINGLE COMPARTMENT STAINLESS STEEL SINK (15-3/4x21x5-1/2 I.D.). PROVIDE JUST J-1174-R GOOSENECK FAUCET WITH WRIST BLADES AND JUST J-35-S9F STAINLESS STEEL GRID DRAIN, AND HANDLAV MOLDED DRAIN. CENTER, REAR DRAIN LOCATION. MECHANICAL CONTRACTOR TO PROVIDE ALL MATERIALS TO MAKE FINAL CONNECTIONS, INCLUDING TAIL PIECE AND ANGLE STOP VALVES. PROVIDE PIPE INSULATION. SINK MUST BE ADA COMPLIANT. MOUNT 34 IN. A.F.F. TO TOP OF RIM. PROVIDE MATTS LFMMV THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE AT 105 DEGREES F.
P-8	ACCESSIBLE ELECTRIC WATER COOLER WITH BOTTLE FILLER	ELKAY	EZ50W6LK	WALL	3/8	-	1-1/4	WALL MOUNTED, SINGLE, BARRIER FREE ELECTRIC WATER COOLER WITH BOTTLE FILLING UNIT; 0.0 GPH AT ARI STANDARDS, 115 VOLT, SINGLE PHASE, 370 WATTS, 6 FULL LOAD AMPS. MOUNT AT 36 INCHES A.F.F. TO TOP OF SPOUT.
P-9	ICE MAKER WALL BOX	GUY GRAY	BIM875	WALL	1/2	-	-	WALL MOUNTED ICE MAKER HOOK UP WITH ANGLE VALVE.
P-10	FLOOR DRAIN	WADE	1100	FLOOR	-	-	*	*CAST IRON FLOOR DRAIN, SIZE AS INDICATED ON PLANS OR MATCH INDICATED WASTE LINE. PROVIDE DEEP SEAL TRAP. COORDINATE DRAIN TOP MATERIAL WITH SPECIFIED FLOOR FINISH.
P-11	WALL CLEAN OUT	WADE	8550-R	WALL	-	-	*	*SIZE TO MATCH WASTE LINE, MAXIMUM TO 4 INCHES. PROVIDE WADE 8304 STAINLESS STEEL WALL CONNECTION COVER.
P-12	WATER HAMMER ARRESTOR	WADE BELLOWS	SHOKSTOP	-	*	*	-	*SIZE WATER HAMMER ARRESTOR PER MANUFACTURER'S RECOMMENDATIONS. ALL STAINLESS STEEL CONSTRUCTION WITH WELDED NESTED BELLOWS. PROVIDE BALL VALVE FOR SHUT-OFF.
P-13	FLOOR SINK	WADE	9110	FLOOR	-	-	*	*CAST IRON FLOOR SINK WITH NICKEL BRONZE GRATE. SIZE AS INDICATED ON PLANS OR MATCH WASTE LINE SIZE WHEN NOT INDICATED. PROVIDE 3/4 GRATE AND DEEP SEAL TRAP.
P-14	CLEAN OUT TO GRADE	WADE	6000Z	TO GRADE	-	-	*	*SIZE TO MATCH WASTE LINE MAXIMUM TO 4 INCHES. PROVIDE HEAVY DUTY TRACTOR TYPE COVER.

- NOTES
- COORDINATE COUNTER TOP FIXTURE INSTALLATION WITH MILLWORK.
 - INSTALL ACCESSIBLE FLUSH VALVE TO THE ACCESSIBLE SIDE.
 - MECHANICAL CONTRACTOR SHALL PROVIDE APPROVED TRAP GUARDS ON ALL FLOOR DRAINS.

NOTES:
REFER TO SHEET P1.1 FOR PLUMBING NOTES, LEGEND, & SCHEDULE.
REFER TO SHEET P2.0 FOR PLUMBING DEMO PLAN.
REFER TO SHEET P2.1 FOR PLUMBING PLANS.
REFER TO SHEET P3.1 FOR PLUMBING DETAILS.
REFER TO SHEET P4.1 FOR PLUMBING RISERS.

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ROGERS, ARKANSAS

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PLUMBING NOTES,
LEGEND, & SCHEDULE

S H E E T

P1.1

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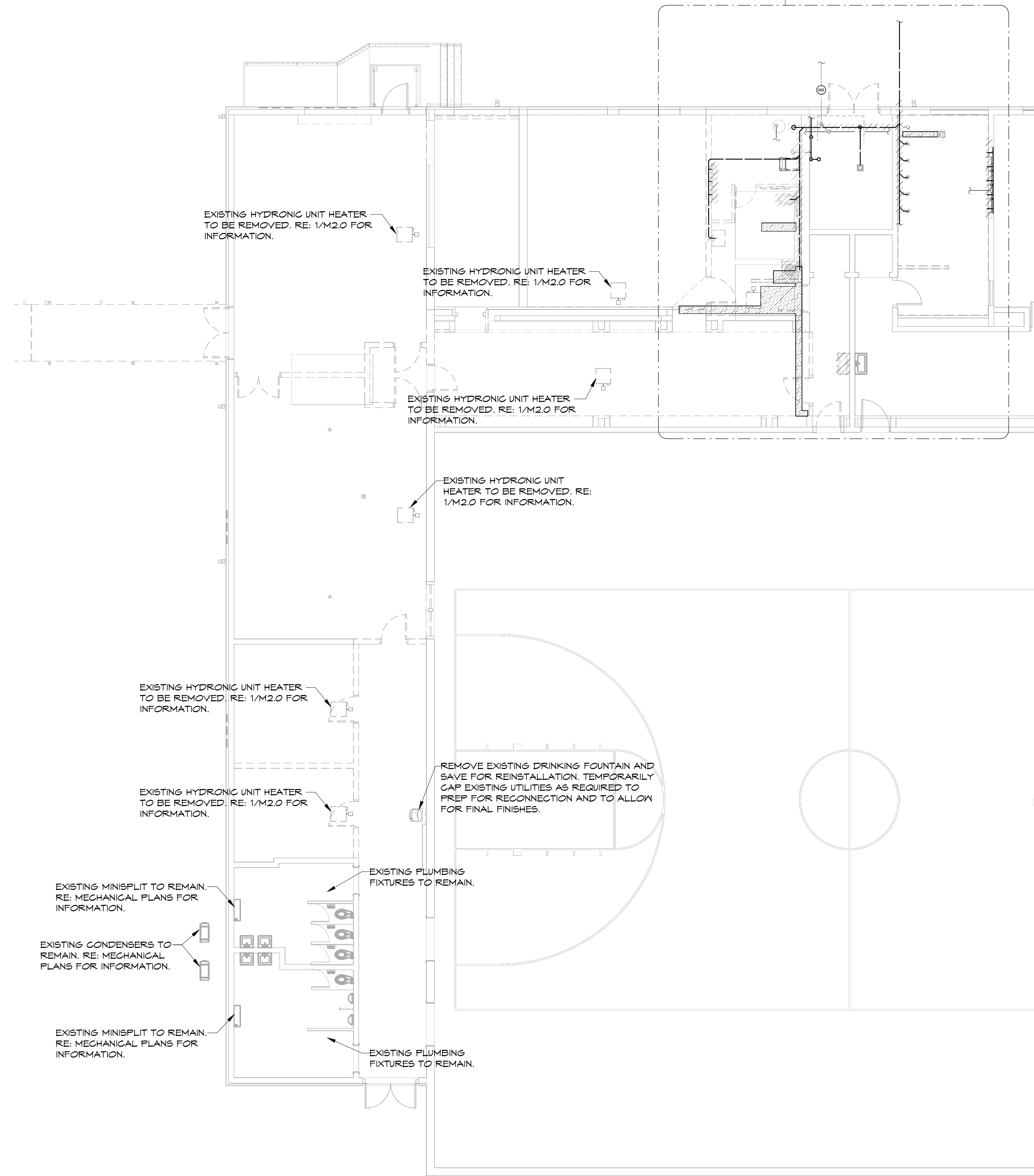
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PLUMBING DEMO PLANS
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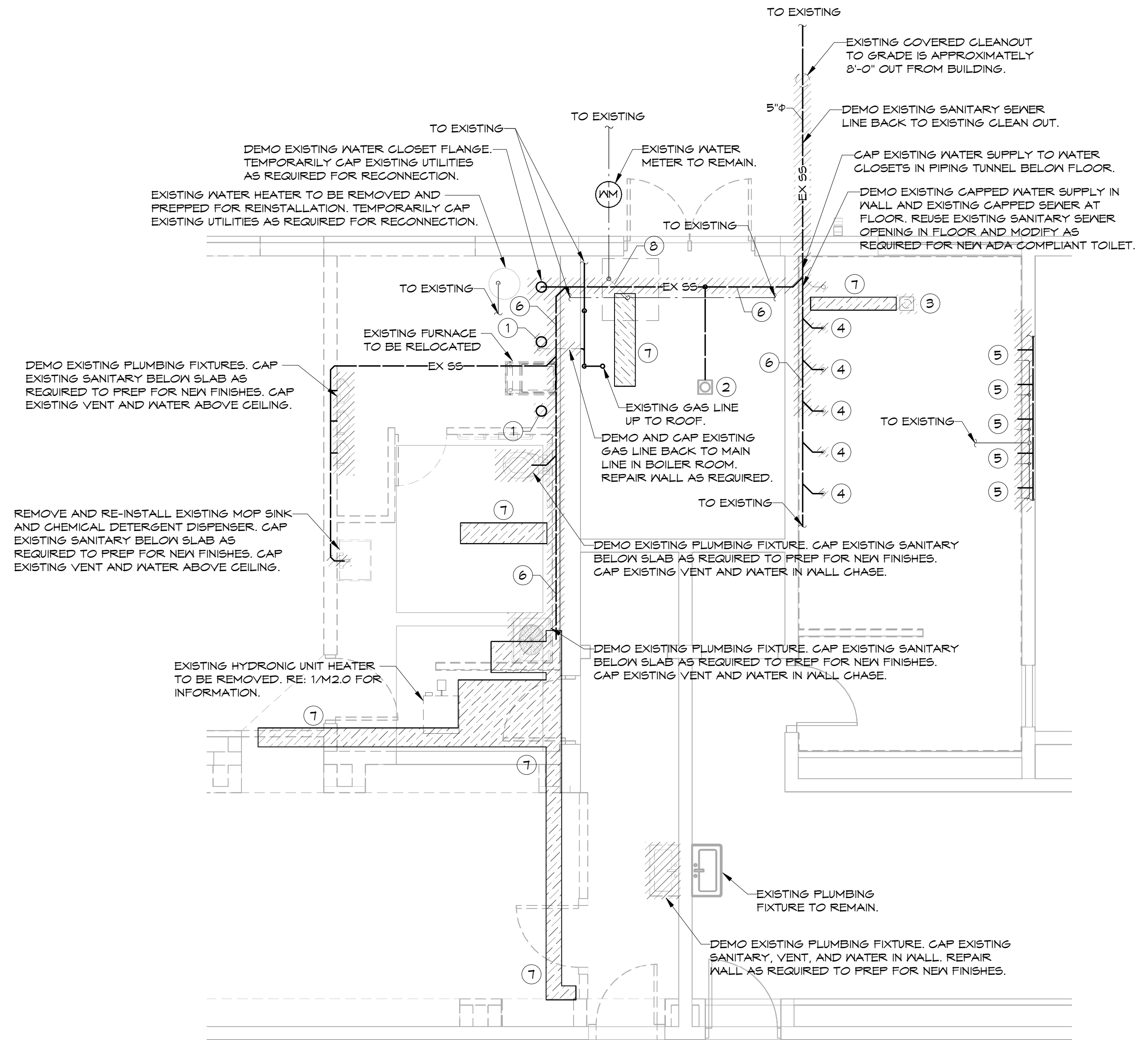
PLUMBING DEMO KEYED NOTES (THIS SHEET ONLY)

- 1 DEMO EXISTING WATER CLOSET FLANGE BELOW SLAB. REPAIR FLOOR AS REQUIRED.
- 2 EXISTING FLOOR DRAIN TO REMAIN. FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
- 3 DEMO EXISTING FLOOR DRAIN. FIELD VERIFY EXACT LOCATION AND ROUTING OF EXISTING SANITARY SEWER LINE. REPAIR FLOOR AS REQUIRED.
- 4 DEMO REMAINING EXISTING CAPPED WATER SUPPLY IN WALL AND EXISTING CAPPED SANITARY SEWER BELOW SLAB. REPAIR WALL AND FLOOR AS REQUIRED. FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
- 5 DEMO REMAINING EXISTING CAPPED WATER SUPPLY AND EXISTING CAPPED SANITARY SEWER WITHIN WALL. REPAIR WALL AS REQUIRED FOR FRP PANEL INSTALL. FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
- 6 DEMO EXISTING CAST IRON SANITARY SEWER LINES. REPLACE WITH NEW PVC SANITARY SEWER LINES.
- 7 SAW CUT EXISTING SLAB AS REQUIRED FOR INSTALLATION OF NEW PLUMBING FIXTURE AND ASSOCIATED PIPING.
- 8 DEMO EXISTING WATER LINE AS REQUIRED TO ROUTE WATER SERVICE LINE UP TO NEW RPZ PRIOR TO SERVING ANY PIPING IN BUILDING.

NOTE:
ALL EXISTING WATER AND SANITARY LINE LOCATIONS INDICATED ON DRAWINGS ARE APPROXIMATE. CONTRACTORS SHALL VERIFY EXISTING PIPING LOCATIONS BY ANY MEANS REQUIRED PRIOR TO SAW CUTTING ANY FLOORS OR WALLS.



1 PLUMBING DEMO PLAN
1/8" = 1'-0"



2 ENLARGED PLUMBING DEMO PLAN
1/4" = 1'-0"

NOTES:
REFER TO SHEET P1.1 FOR PLUMBING NOTES, LEGEND, & SCHEDULE.
REFER TO SHEET P2.0 FOR PLUMBING DEMO PLAN.
REFER TO SHEET P2.1 FOR PLUMBING PLANS.
REFER TO SHEET P3.1 FOR PLUMBING DETAILS.
REFER TO SHEET P4.1 FOR PLUMBING RISERS.

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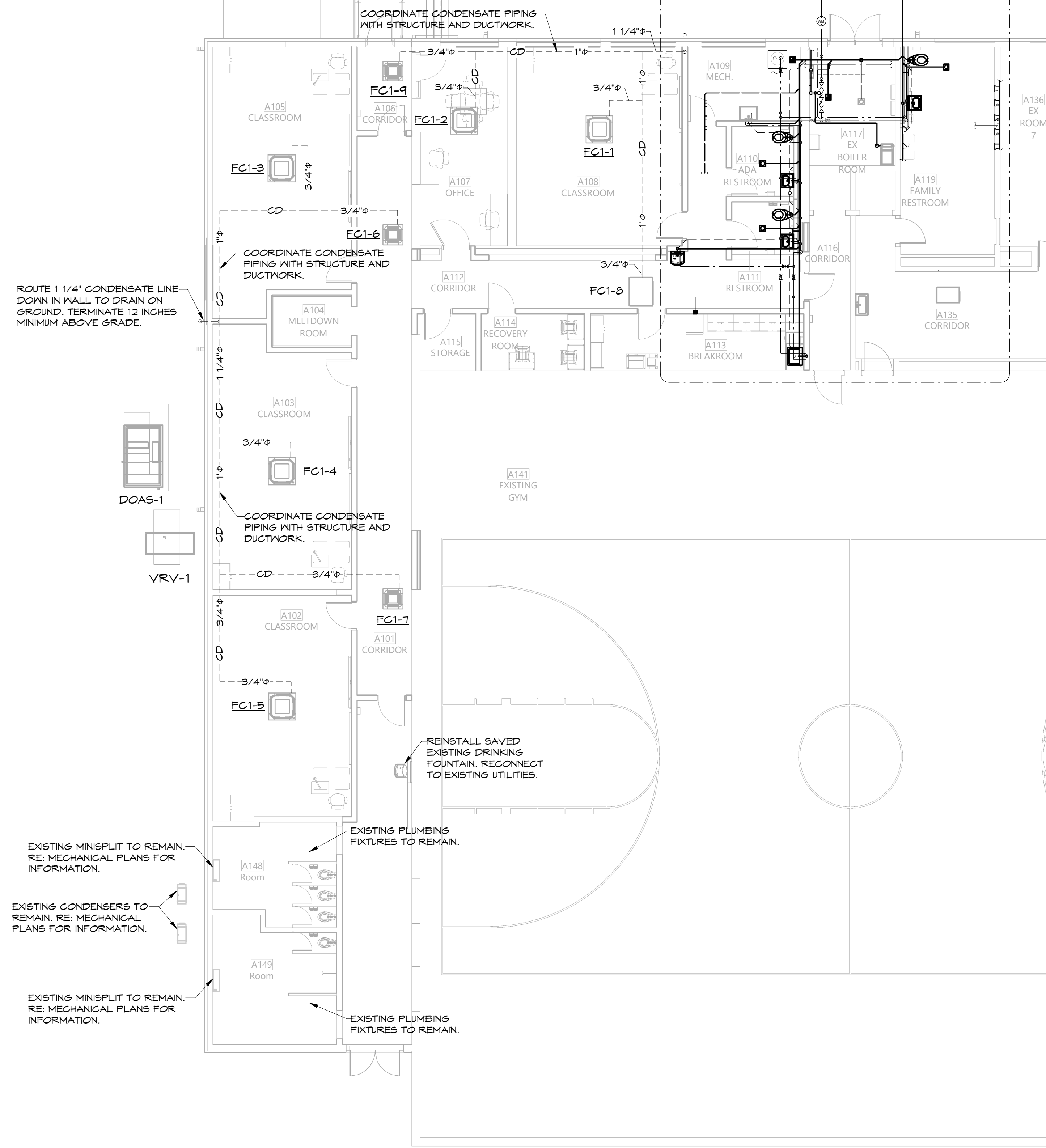
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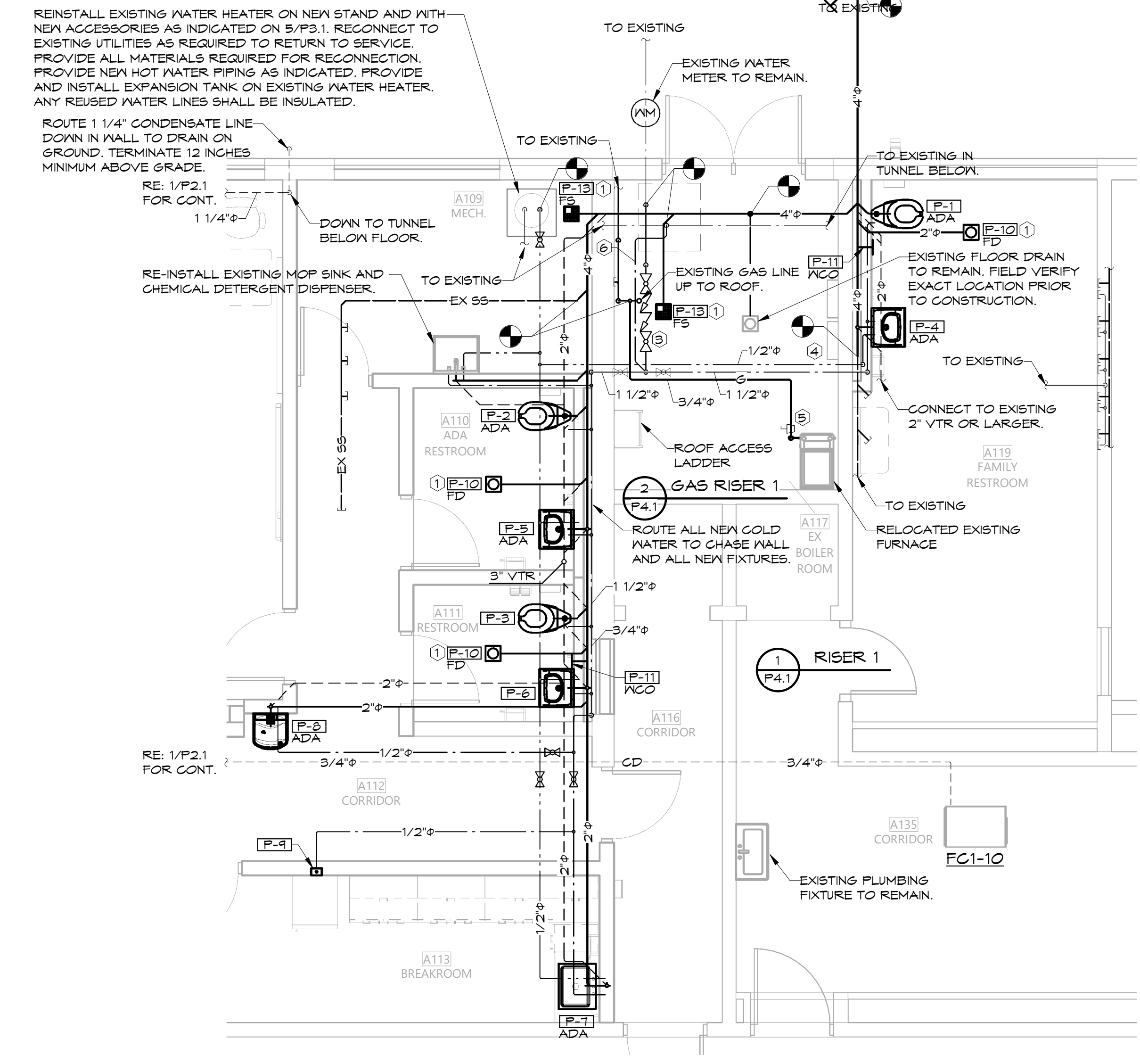
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PLUMBING PLANS
SHEET
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1 PLUMBING PLAN
1/8" = 1'-0"



2 ENLARGED PLUMBING PLAN
1/4" = 1'-0"

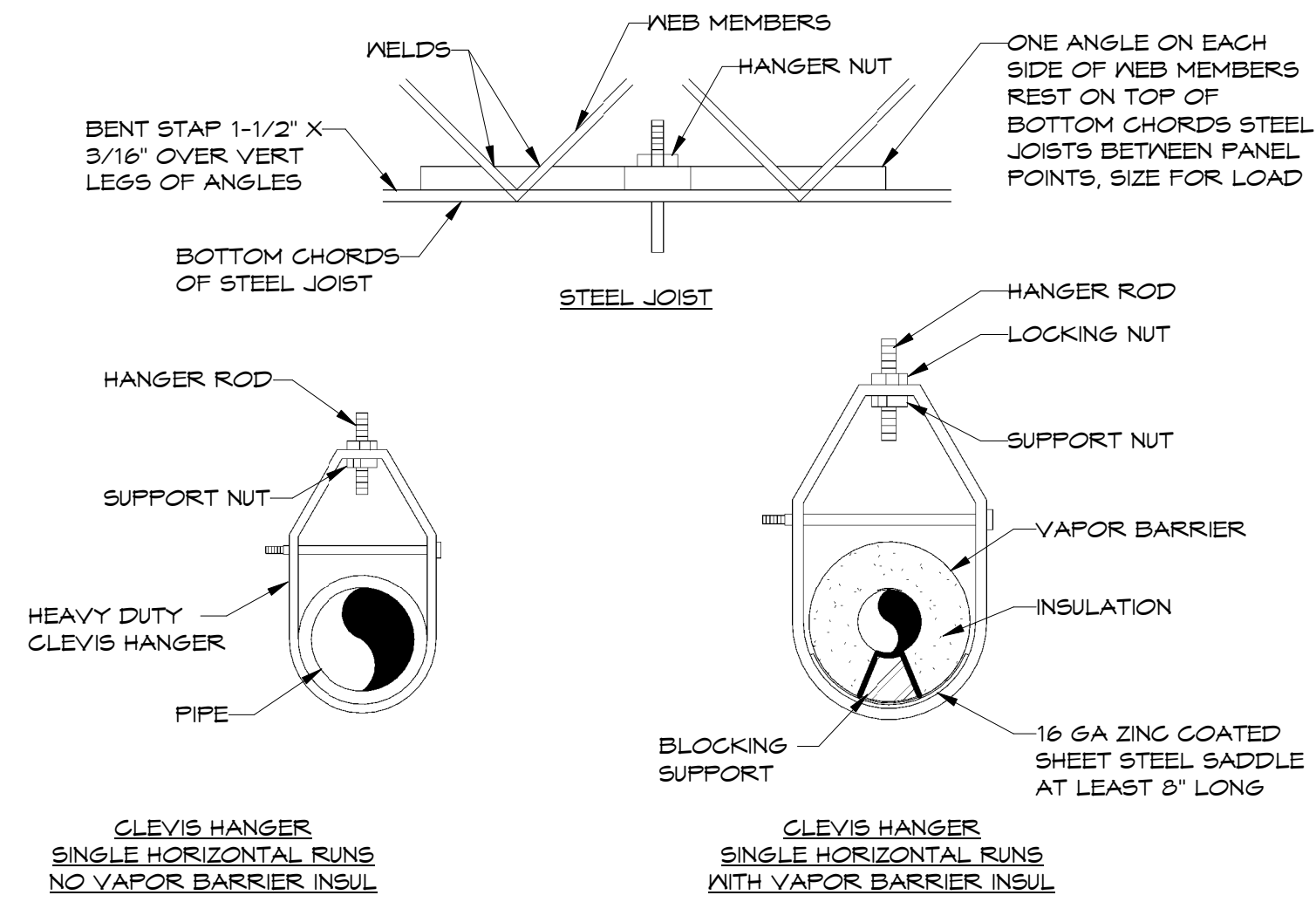


NOTES:
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REFER TO SHEET P4.1 FOR PLUMBING RISERS.

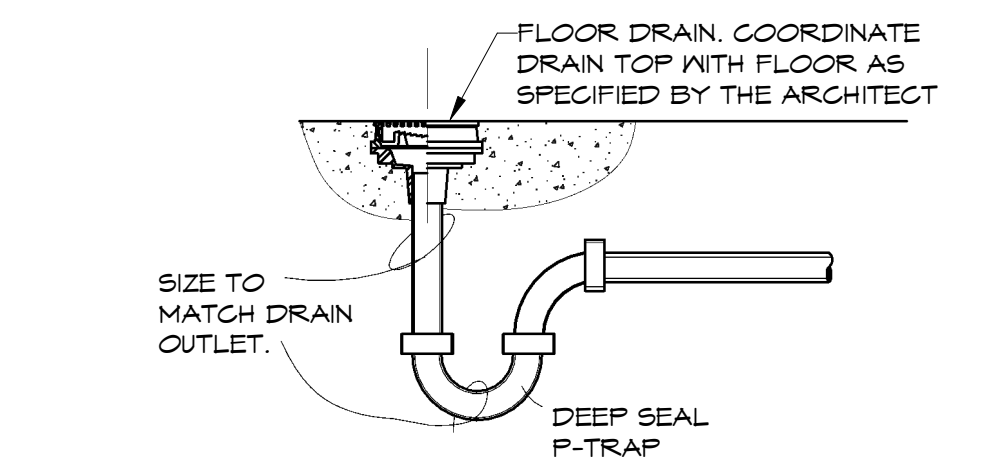
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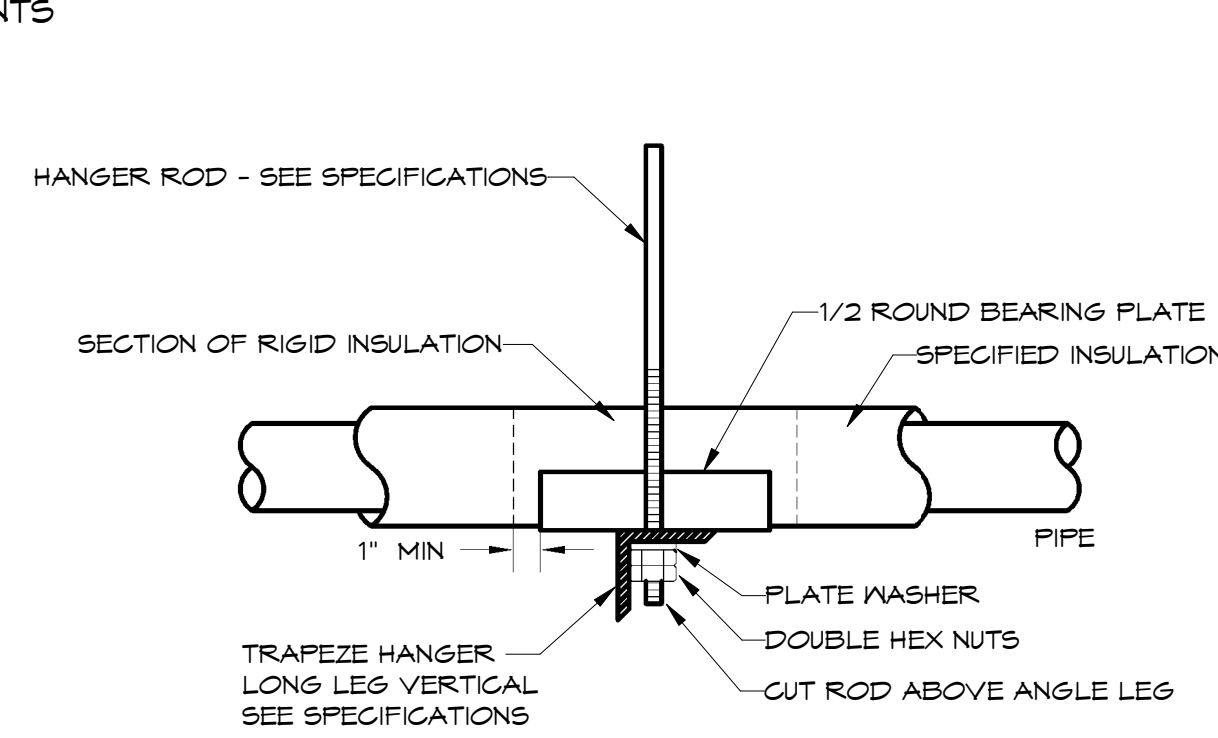
HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	1/4" DIA	8" THRU 12"	1/2" DIA
2 1/2" UP TO 6"	3/8" DIA		



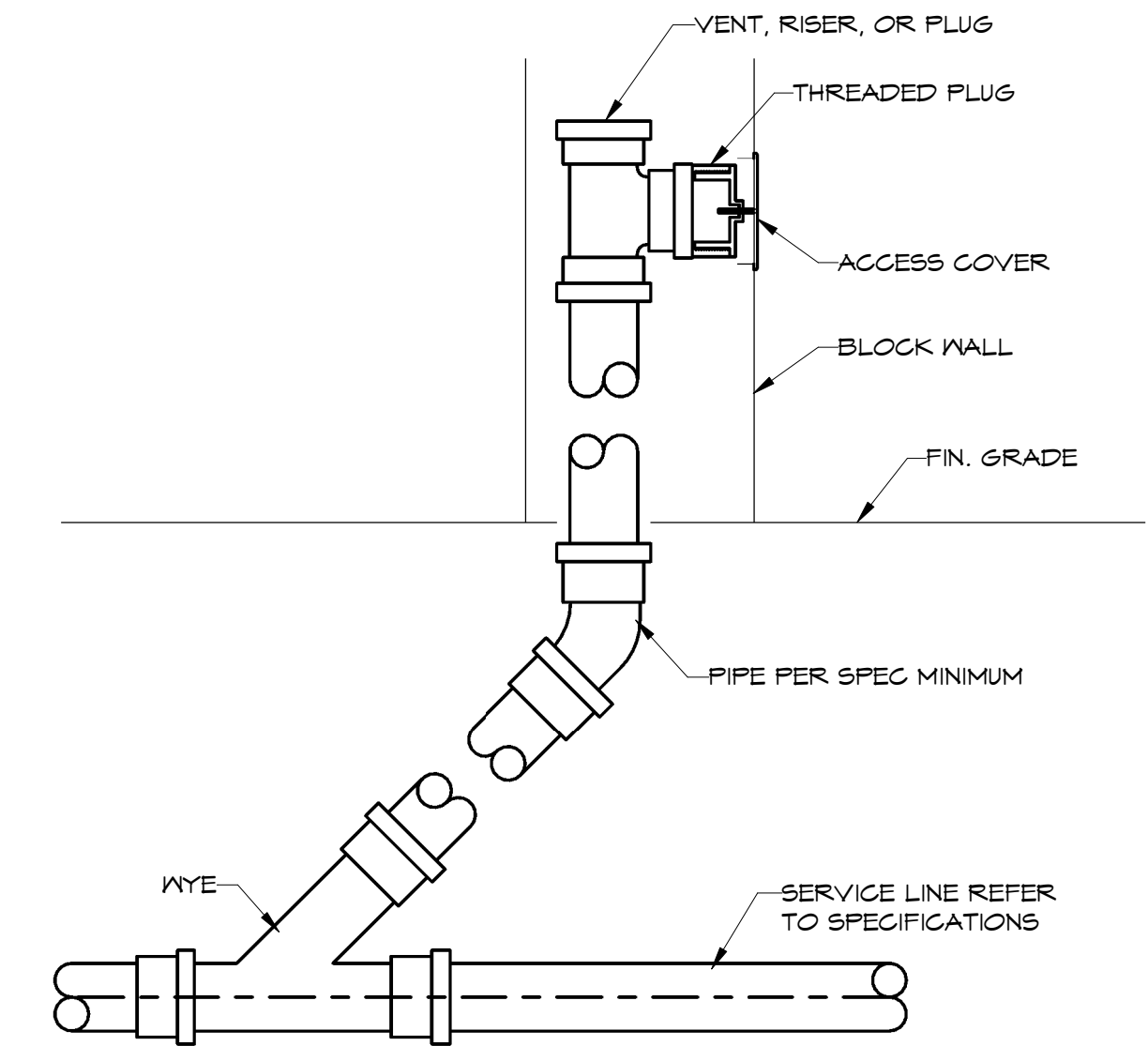
1 TYPICAL PIPE HANGER DETAIL-CLEVIS HANGER
NTS



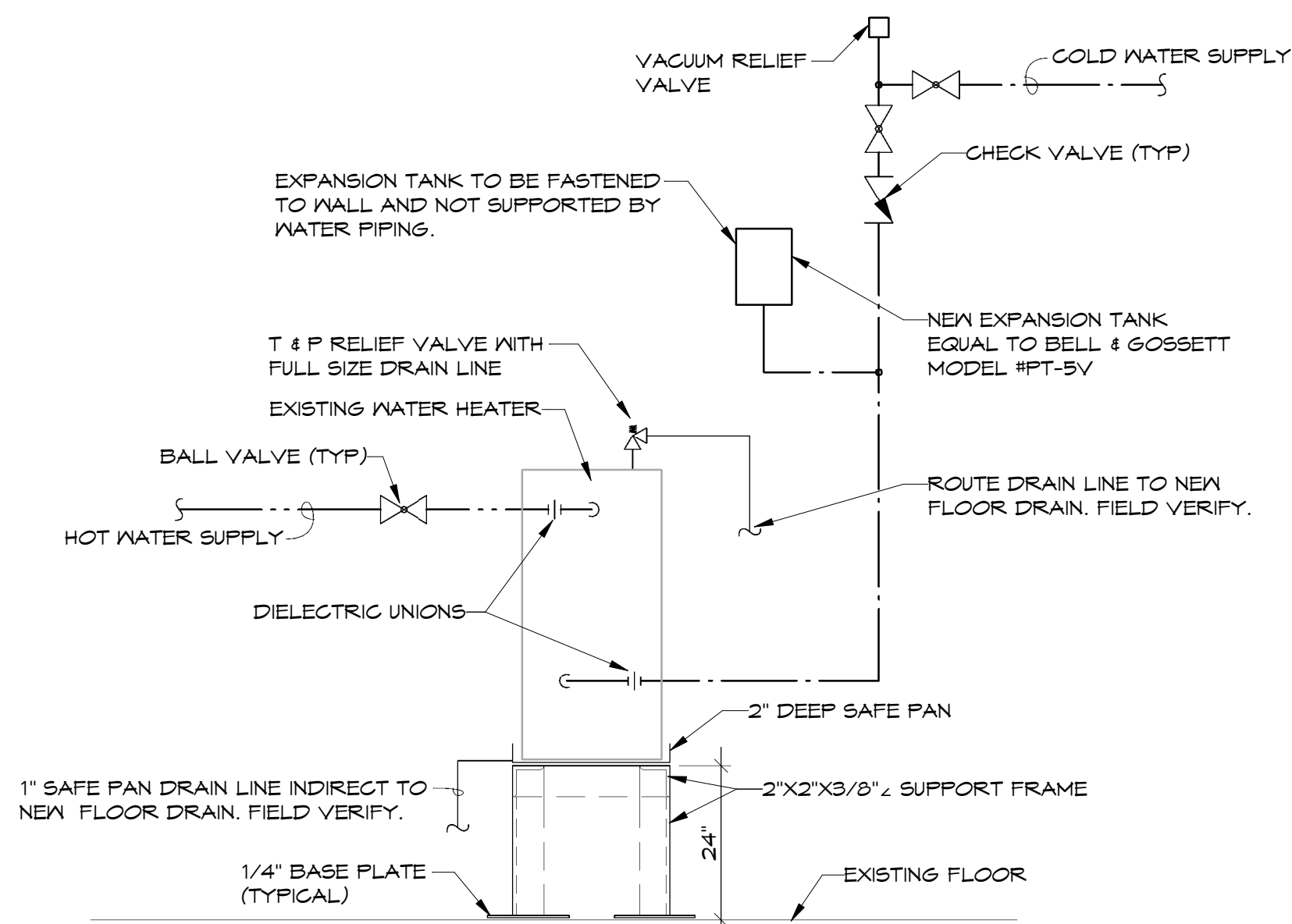
2 FLOOR DRAIN DETAIL
NTS



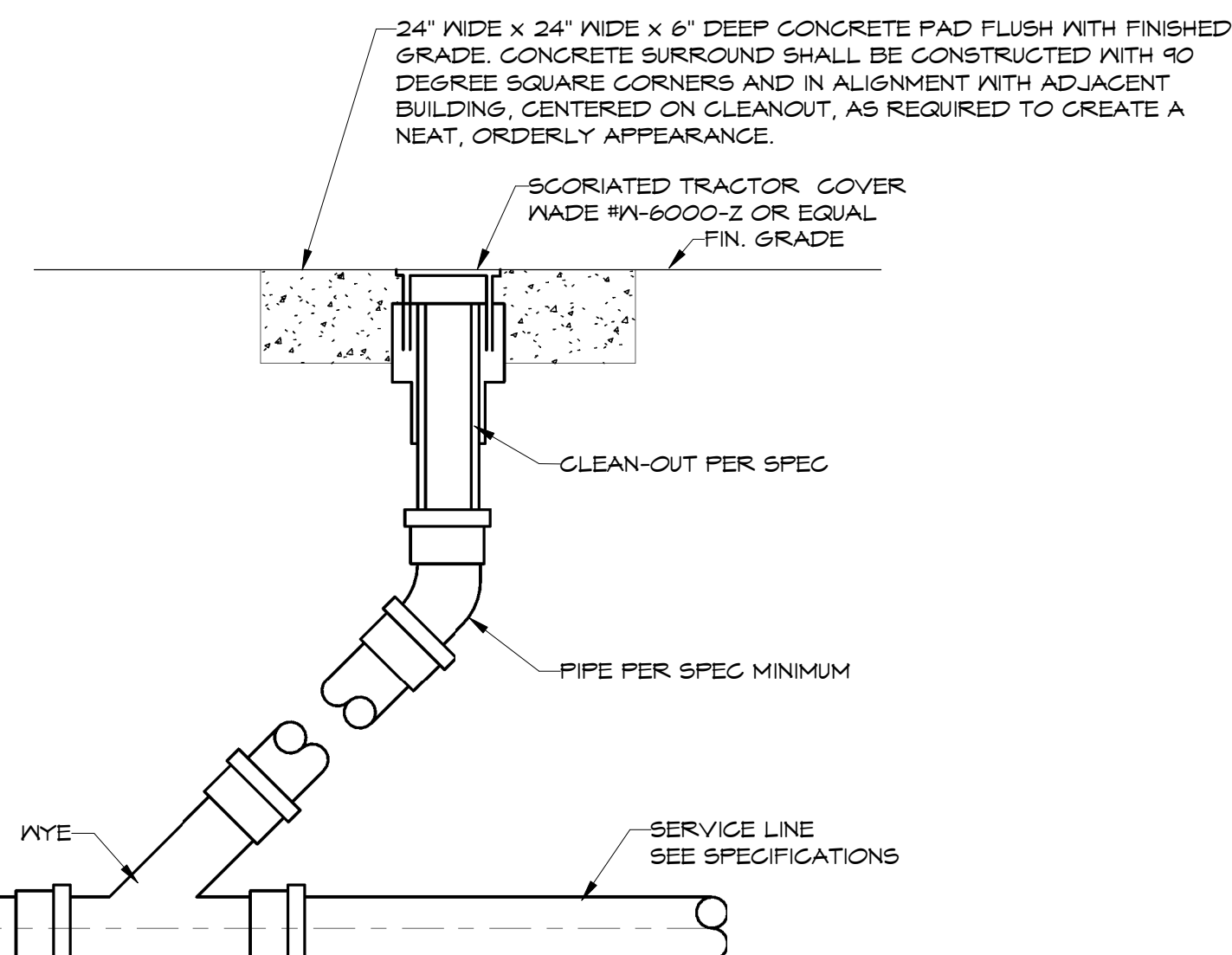
3 TYPICAL PIPE HANGER DETAIL-TRAPEZE
NTS



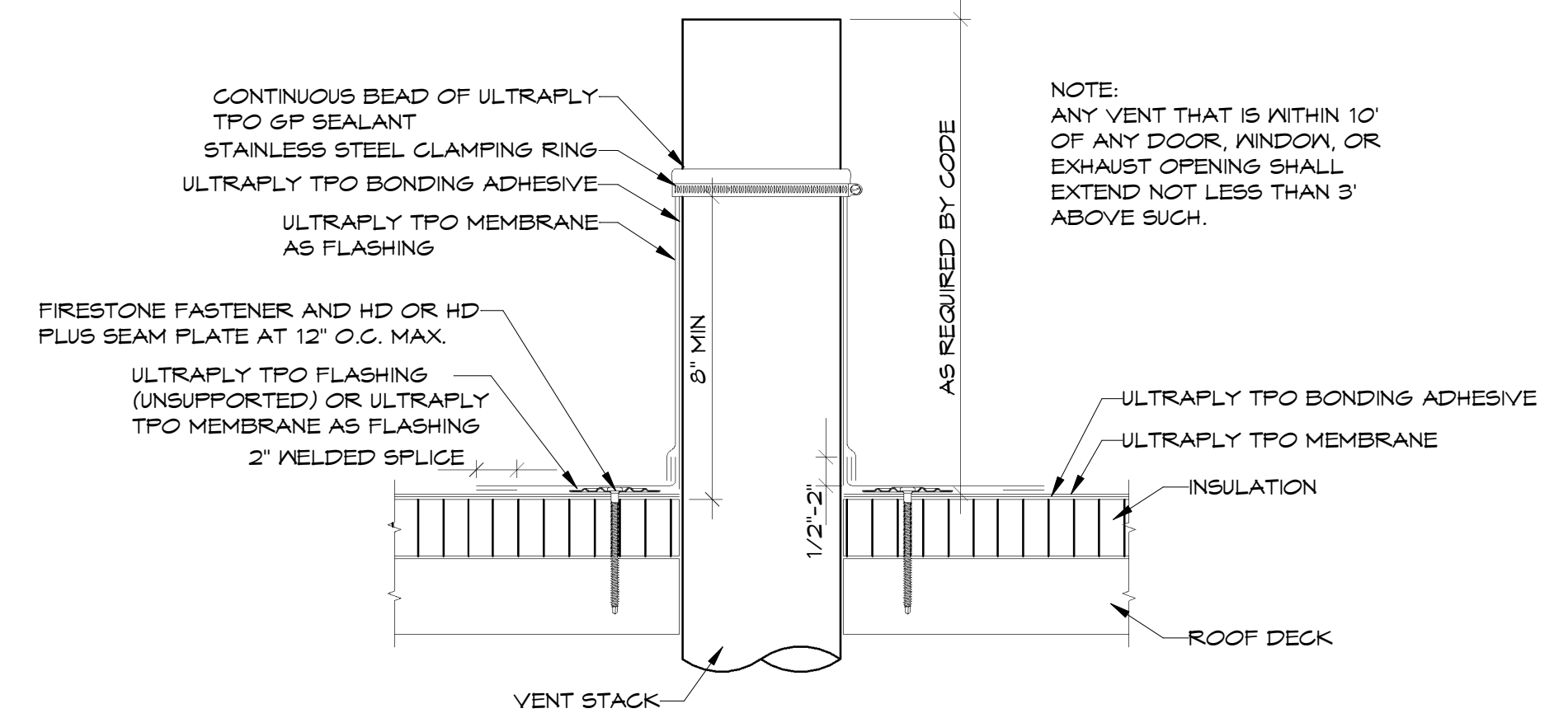
4 WALL CLEAN OUT DETAIL
NTS



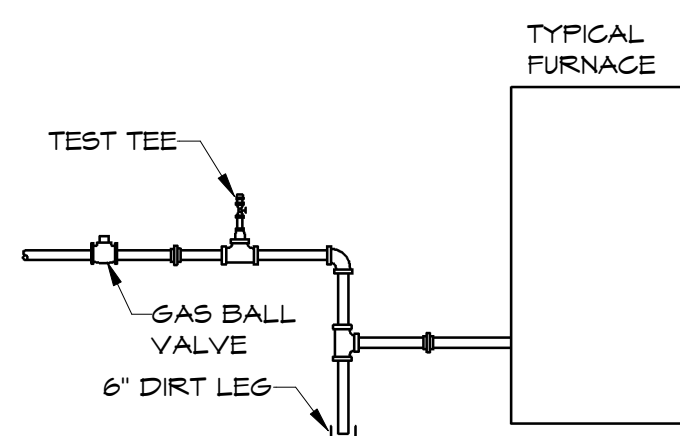
5 WATER HEATER DETAIL
NTS



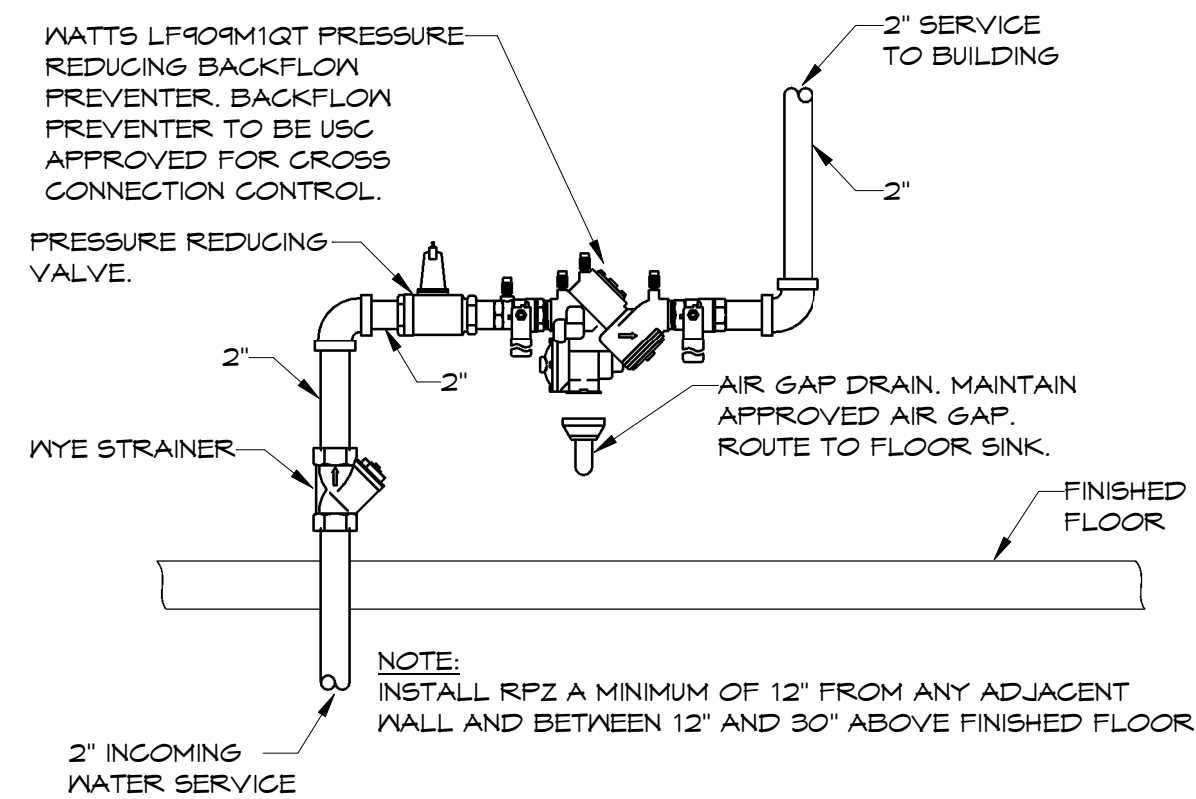
6 CLEAN OUT TO GRADE DETAIL
NTS



7 VENT THRU ROOF DETAIL
NTS



8 TYPICAL GAS CONNECTION
NTS



9 FLOOR SINK DETAIL
NTS

10 DOMESTIC RPZ DETAIL
NTS

NOTES:
REFER TO SHEET P1.1 FOR PLUMBING NOTES, LEGEND, & SCHEDULE.
REFER TO SHEET P2.0 FOR PLUMBING DEMO PLAN.
REFER TO SHEET P2.1 FOR PLUMBING PLANS.
REFER TO SHEET P3.1 FOR PLUMBING DETAILS.
REFER TO SHEET P4.1 FOR PLUMBING RISERS.

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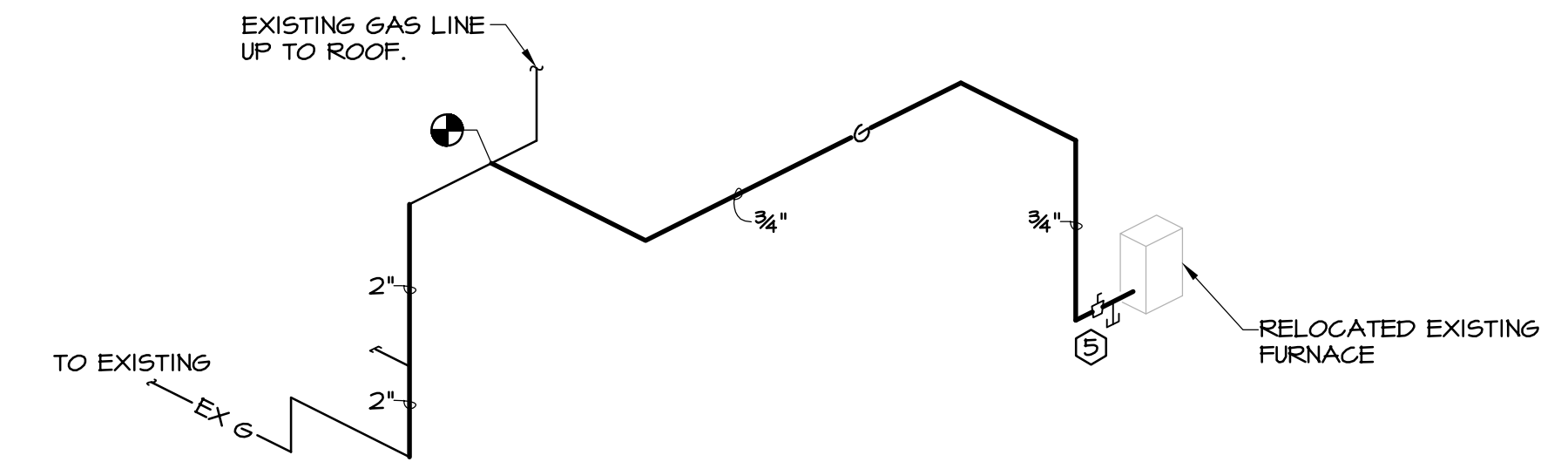
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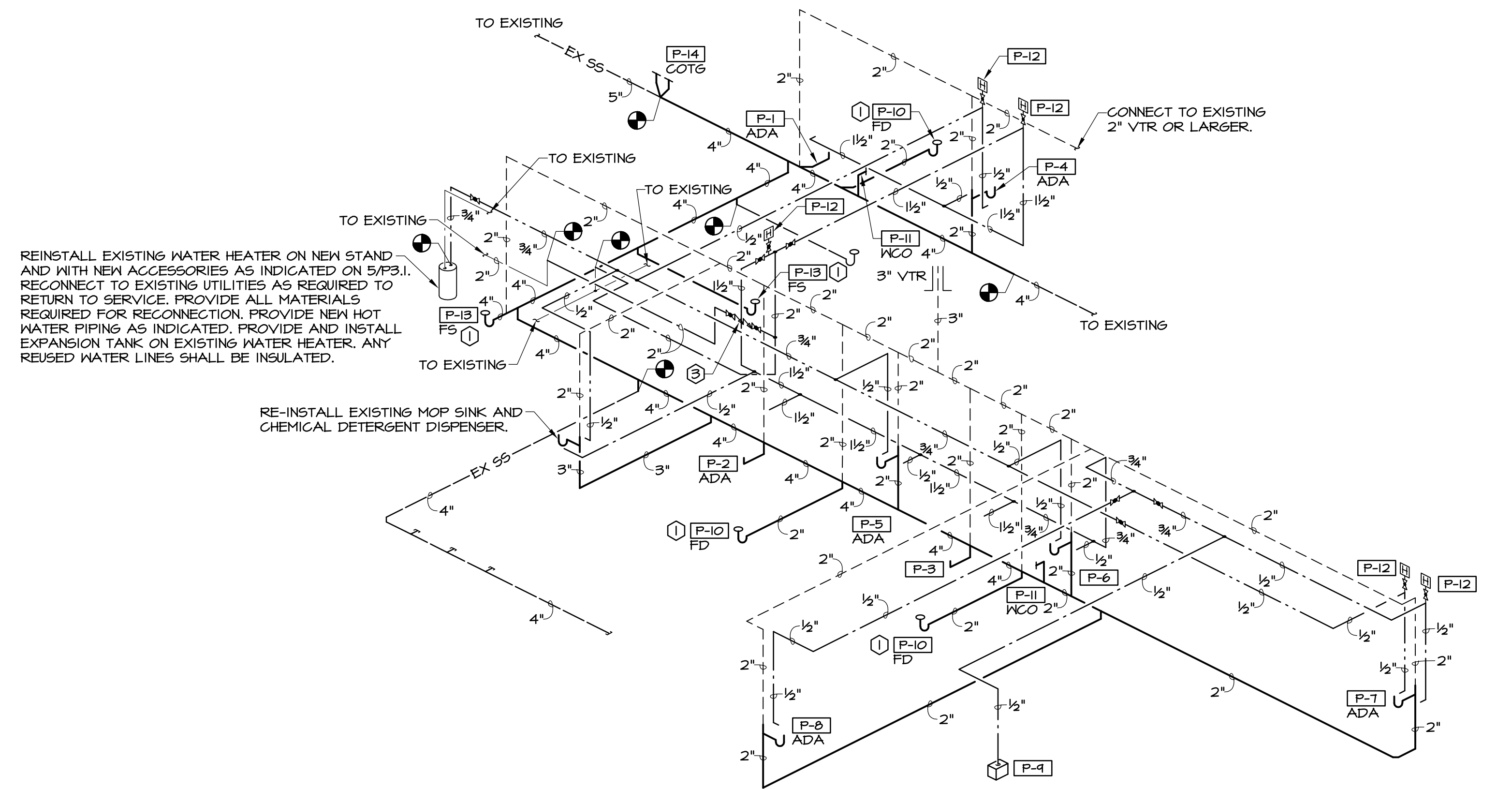
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PLUMBING DETAILS
SHEET
P3.1

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2 GAS RISER I
NTS



REINSTALL EXISTING WATER HEATER ON NEW STAND- AND WITH NEW ACCESSORIES AS INDICATED ON 5/P3.I. RECONNECT TO EXISTING UTILITIES AS REQUIRED TO RETURN TO SERVICE. PROVIDE ALL MATERIALS REQUIRED FOR RECONNECTION. PROVIDE NEW HOT WATER PIPING AS INDICATED. PROVIDE AND INSTALL EXPANSION TANK ON EXISTING WATER HEATER. ANY REUSED WATER LINES SHALL BE INSULATED.

RE-INSTALL EXISTING MOP SINK AND CHEMICAL DETERGENT DISPENSER.

1 RISER I
NTS

NOTES:
REFER TO SHEET P1.I FOR PLUMBING NOTES, LEGEND, & SCHEDULE.
REFER TO SHEET P2.0 FOR PLUMBING DEMO PLAN.
REFER TO SHEET P2.I FOR PLUMBING PLANS.
REFER TO SHEET P3.I FOR PLUMBING DETAILS.
REFER TO SHEET P4.I FOR PLUMBING RISERS.

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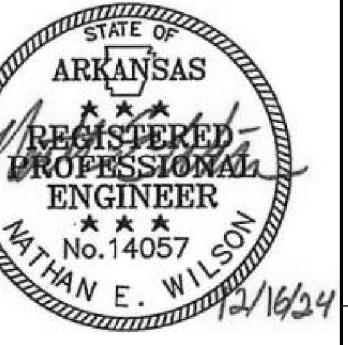
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PLUMBING RISERS
SHEET
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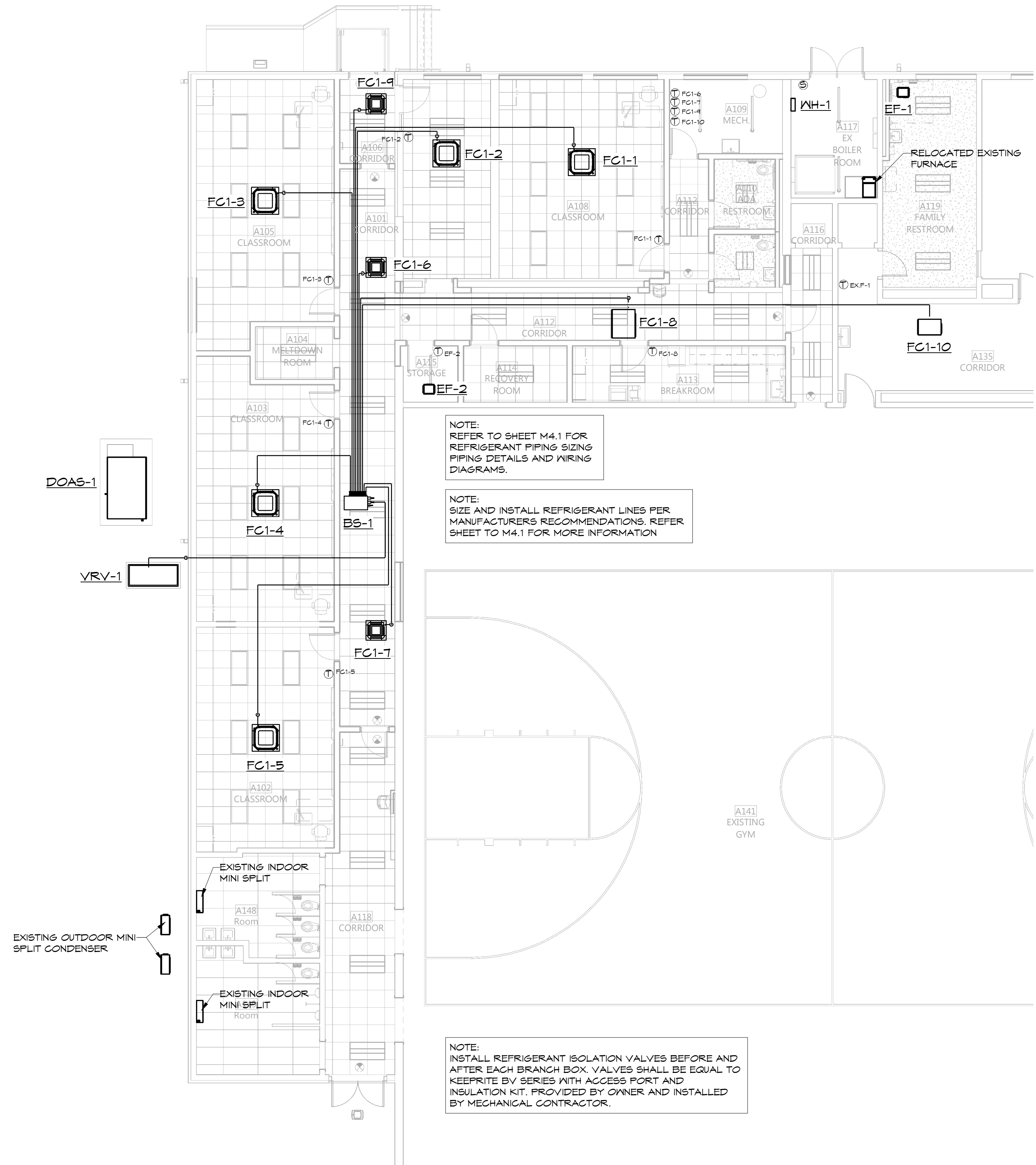
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MECH PIPING PLAN
SHEET
MP2.1

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NOTE:
REFER TO SHEET M4.1 FOR
REFRIGERANT PIPING SIZING
PIPING DETAILS AND WIRING
DIAGRAMS.

NOTE:
SIZE AND INSTALL REFRIGERANT LINES PER
MANUFACTURERS RECOMMENDATIONS. REFER
SHEET TO M4.1 FOR MORE INFORMATION

NOTE:
INSTALL REFRIGERANT ISOLATION VALVES BEFORE AND
AFTER EACH BRANCH BOX. VALVES SHALL BE EQUAL TO
KEEPRITE BY SERIES WITH ACCESS PORT AND
INSULATION KIT, PROVIDED BY OWNER AND INSTALLED
BY MECHANICAL CONTRACTOR.

NOTES:
REFER TO SHEET M1.1 FOR HVAC LEGEND, GENERAL AND KEYED NOTES.
REFER TO SHEET M3.1 FOR HVAC DETAILS. REFER TO SHEET M5.1 FOR HVAC
SCHEDULES.

1 MECH PIPING PLAN
1/8" = 1'-0"

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GENERAL HVAC NOTES

- COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES AND CEILING GRID.
- INDICATED DUCT SIZES ARE NET FREE AREA.
- ADJUST ALL AIR QUANTITIES AS SHOWN ON THE PLANS AFTER COMPLETION OF THE JOB.
- INSULATE THE SUPPLY GRILLE TOPS, RETURN AIR GRILLE PLENUMS AND EXHAUST AIR PLENUMS WITH 2 IN., 3/4 LB DENSITY FOIL BACKED INSULATION.
- FIRE AND/OR SMOKE DAMPERS ARE INDICATED ON MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATIONS AND FIRE RATING REQUIREMENTS WHERE ANY DUCT PASSES THROUGH A PARTITION. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF ALL FIRE AND SMOKE PARTITIONS. VERIFY REQUIRED DAMPER ASSEMBLY IN ALL DUCTS PENETRATING THESE WALLS PER ALL STATE AND LOCAL CODES.
- EXTERNALLY INSULATE ALL ROUND SUPPLY AND RETURN DUCT. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCT PER MECHANICAL CODE. ATTACH THE INTERNAL INSULATION TO THE DUCT WITH APPROVED ADHESIVE AND WELDED FASTENERS.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
- INTERIOR OF ALL DUCT PLENUMS VISIBLE THROUGH GRILLE SHALL BE PAINTED MATTE BLACK PRIOR TO INSTALLATION.
- INTERLOCK EXHAUST FANS WITH LIGHT SWITCHES. REFER TO ELECTRICAL PLANS.
- PAINT ALL SUPPLY AND RETURN AIR GRILLES NOT SPECIFIED AS PRE-FINISHED, TO ARCHITECT'S SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
- MAINTAIN 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST OUTLETS, GAS FLUES AND PLUMBING VENTS.
- INSTALL VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, EXHAUST AND FRESH AIR BRANCH DUCT RUNS.
- REGULATING AIR SYSTEMS WITH A FAN CAPACITY GREATER THAN 2,000 NOMINAL CFM SHALL AUTOMATICALLY SHUT DOWN BY MEANS OF AN APPROVED SMOKE DETECTOR PLACED IN THE RETURN AIR STREAM PRIOR TO ANY EXHAUSTING FROM THE BUILDING OR MIXING WITH FRESH AIR MAKEUP. ALL CONTROLS SHALL BE LISTED. UPON ACTIVATION OF THE SAFETY CONTROL, THE SYSTEM SHALL NOT RESTART UNTIL THE SAFETY CONTROL IS MANUALLY RESET.
- ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE MECHANICAL CODE.
- SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL DUCT TAPE, WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
- FABRICATE AND INSTALL ALL GALVANIZED DUCT SYSTEMS TO SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION, AND MECHANICAL CODE.
- SMOKE DETECTOR PROVIDED AND INSTALLED BY FIRE ALARM CONTRACTOR.
- DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.

HVAC KEYED NOTES

- MAINTAIN A MINIMUM OF 10 FT. CLEARANCE BETWEEN ALL EXHAUST OUTLETS, FLUES, PLUMBING VENTS AND ANY FRESH AIR INTAKES. IF 10 FT. CLEARANCE CAN NOT BE MAINTAINED EXHAUST OUTLET, FLUE, OR VENT MUST TERMINATE AT A POINT AT LEAST 36 IN. ABOVE HIGHEST FRESH AIR INTAKE WITHIN 10 FT. LIMIT.
- LOCATE THERMOSTAT OR SENSOR AS INDICATED WITH THE CENTER OF THE THERMOSTAT AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.
- SMOKE DETECTORS TO BE INSTALLED IN THE SUPPLY AND RETURN AIR DUCTS AND INTERLOCKED WITH AIR HANDLER FAN FOR SHUT-OFF PER N.F.P.A. 90 A 4 B ON ALL AIR HANDLERS GREATER THAN 1000 G.F.M. SUPPLY AIR DUCT SMOKE DETECTOR SHALL BE INSTALLED ON SUPPLY SIDE OF AIR HANDLING SYSTEM DOWN STREAM OF ANY AIR FILTERS AND PRIOR TO ANY BRANCH DUCT CONNECTIONS. EXCEPTION: THE SMOKE DETECTOR IN THE SUPPLY AIR STREAM MAY BE OMITTED IN SYSTEMS 2000 G.F.M. OR LESS. CAPACITY. RECIRCULATING AIR SYSTEMS WITH FAN CAPACITY LESS THAN 2000 G.F.M., BUT SERVING AREAS USED FOR EGRESS SHALL HAVE AUTOMATIC SMOKE DETECTION SHUTDOWN. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED BY FIRE ALARM CONTRACTOR. MECHANICAL CONTRACTOR SHALL WIRE SMOKE DETECTOR TO THE FAN SHUT OFF CONTACTS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ACCESSORIES REQUIRED TO MAKE THE FAN SHUT OFF CONNECTION. LOCATE SMOKE DETECTORS IN RETURN AIR DUCT PRIOR TO THE INTRODUCTION OF THE OUTSIDE AIR.

MECHANICAL LEGEND

- | | |
|--|--|
| <ul style="list-style-type: none"> ☒ SUPPLY DUCT SECTION ☑ RETURN OR EXHAUST DUCT SECTION ☒ CEILING SUPPLY GRILLE ☒ CEILING RETURN GRILLE ☒ CEILING EXHAUST GRILLE ▮ SIDEWALL SUPPLY OR RETURN GRILLE ① SEE KEYED NOTES | <ul style="list-style-type: none"> ▮ SUPPLY, RETURN, OR EXHAUST DUCT ▨ DEMO DUCT ▨ EXISTING SUPPLY, RETURN, OR EXHAUST DUCT ≡ OR ≡ VOLUME DAMPER ▭ RECTANGULAR DUCT FIRE DAMPER ⊞ ROUND DUCT FIRE DAMPER (NUMBER DENOTES FIRE RATING OF WALL. EXAMPLE: 1FD = ONE HR. RATED WALL) ☒ FLEX DUCT CONNECTION MAXIMUM OF 5 FT. FC1-1 ⊕ THERMOSTAT. MOUNT AT 48" A.F.F. TO TOP (NUMBER DENOTES FURNACE OR AIR HANDLER UNIT) ⊕ SMOKE DETECTOR |
|--|--|



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K-5 ALE at Tillery
 ROGERS, ARKANSAS

DRAWN BY:
DCN
 CHECK BY:
NEW
 ISSUE DATE
12/16/2024

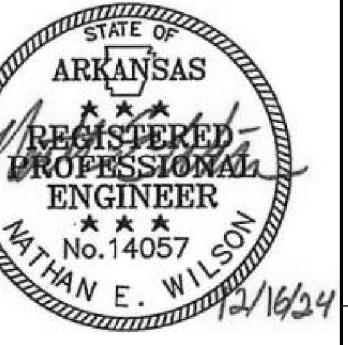
PROJECT NO.
2422

REVISION DATES
 1/13/2025

HVAC NOTES & LEGEND
 S H E E T
M1.1
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 DETAILS. REFER TO SHEET M5.1 FOR HVAC SCHEDULES.

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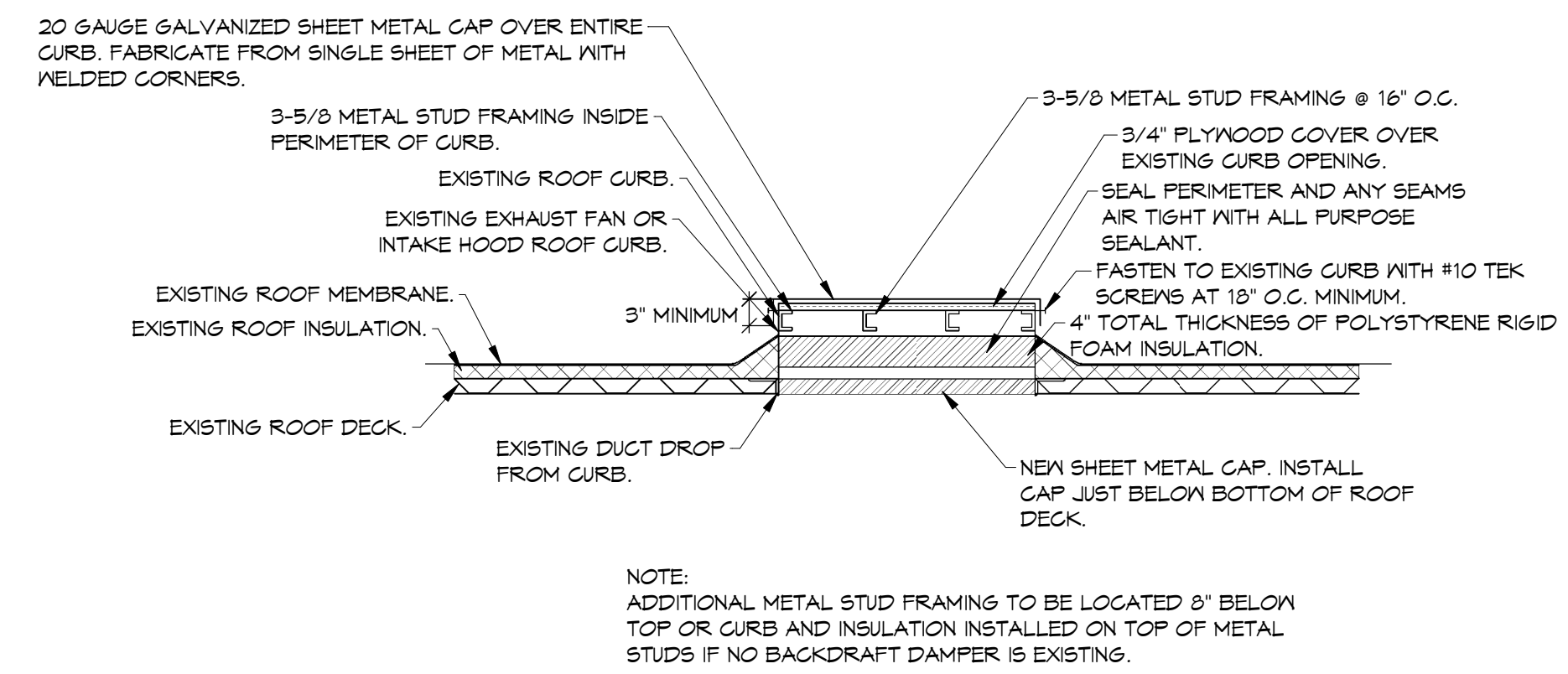
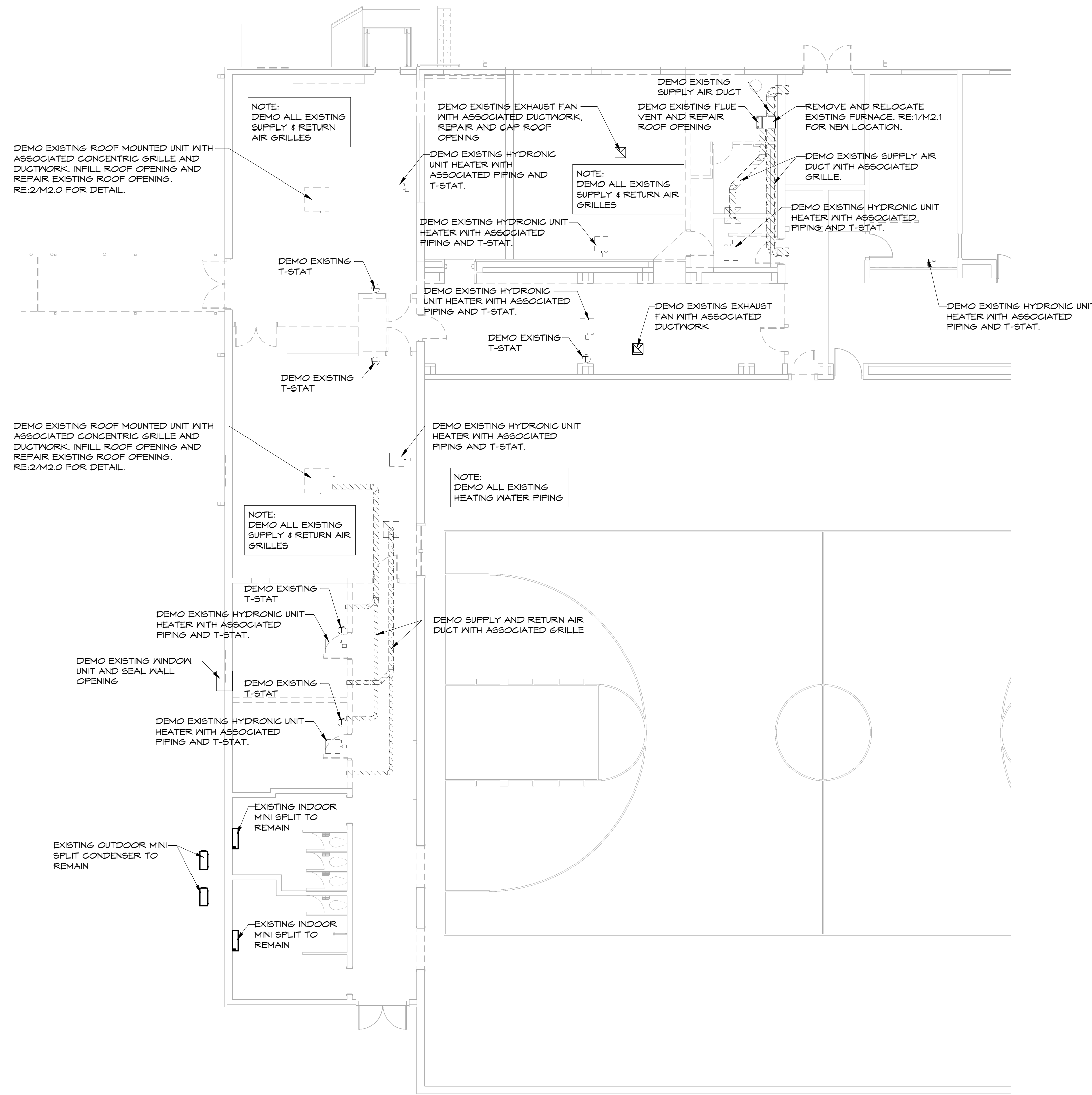
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HVAC DEMO PLAN
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2 EXISTING EQUIPMENT CURB CAP DETAIL
NTS

1 MECHANICAL DEMO PLAN
1/8" = 1'-0"

NOTES:
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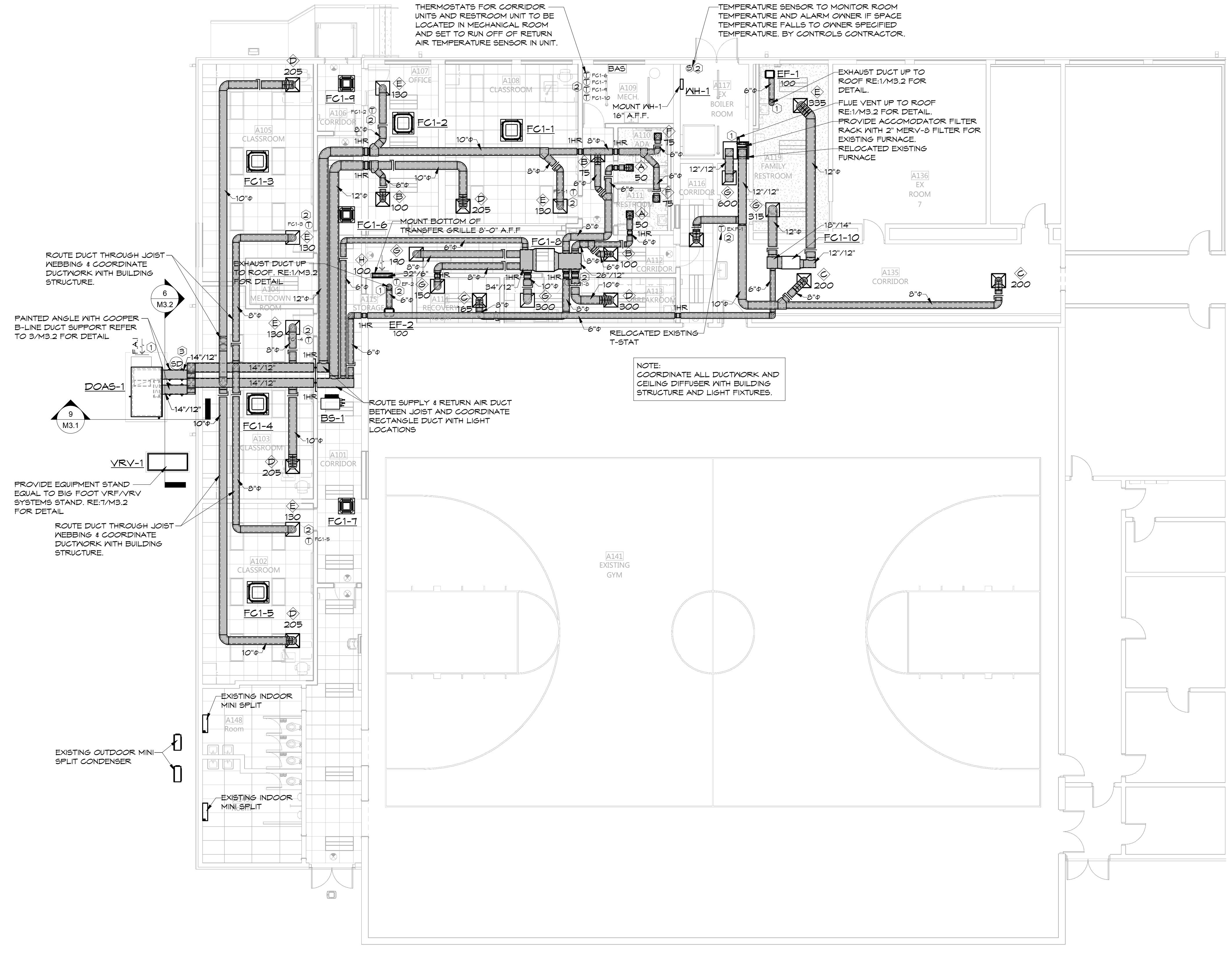
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ROUTE DUCT THROUGH JOIST WEBBING & COORDINATE DUCTWORK WITH BUILDING STRUCTURE.

PAINTED ANGLE WITH COOPER B-LINE DUCT SUPPORT REFER TO M3.2 FOR DETAIL.

DOAS-1

VRV-1

PROVIDE EQUIPMENT STAND EQUAL TO BIG FOOT VRF/VRV SYSTEMS STAND. RE: M3.2 FOR DETAIL.

ROUTE DUCT THROUGH JOIST WEBBING & COORDINATE DUCTWORK WITH BUILDING STRUCTURE.

EXISTING INDOOR MINI SPLIT

EXISTING OUTDOOR MINI SPLIT CONDENSER

EXISTING INDOOR MINI SPLIT

THERMOSTATS FOR CORRIDOR UNITS AND RESTROOM UNIT TO BE LOCATED IN MECHANICAL ROOM AND SET TO RUN OFF OF RETURN AIR TEMPERATURE SENSOR IN UNIT.

TEMPERATURE SENSOR TO MONITOR ROOM TEMPERATURE AND ALARM OWNER IF SPACE TEMPERATURE FALLS TO OWNER SPECIFIED TEMPERATURE. BY CONTROLS CONTRACTOR.

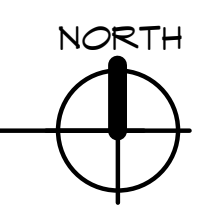
EXHAUST DUCT UP TO ROOF RE: M3.2 FOR DETAIL.

FLUE VENT UP TO ROOF RE: M3.2 FOR DETAIL. PROVIDE ACCOMMODATOR FILTER RACK WITH 2" MERV-8 FILTER FOR EXISTING FURNACE. RELOCATED EXISTING FURNACE.

NOTE: COORDINATE ALL DUCTWORK AND CEILING DIFFUSER WITH BUILDING STRUCTURE AND LIGHT FIXTURES.

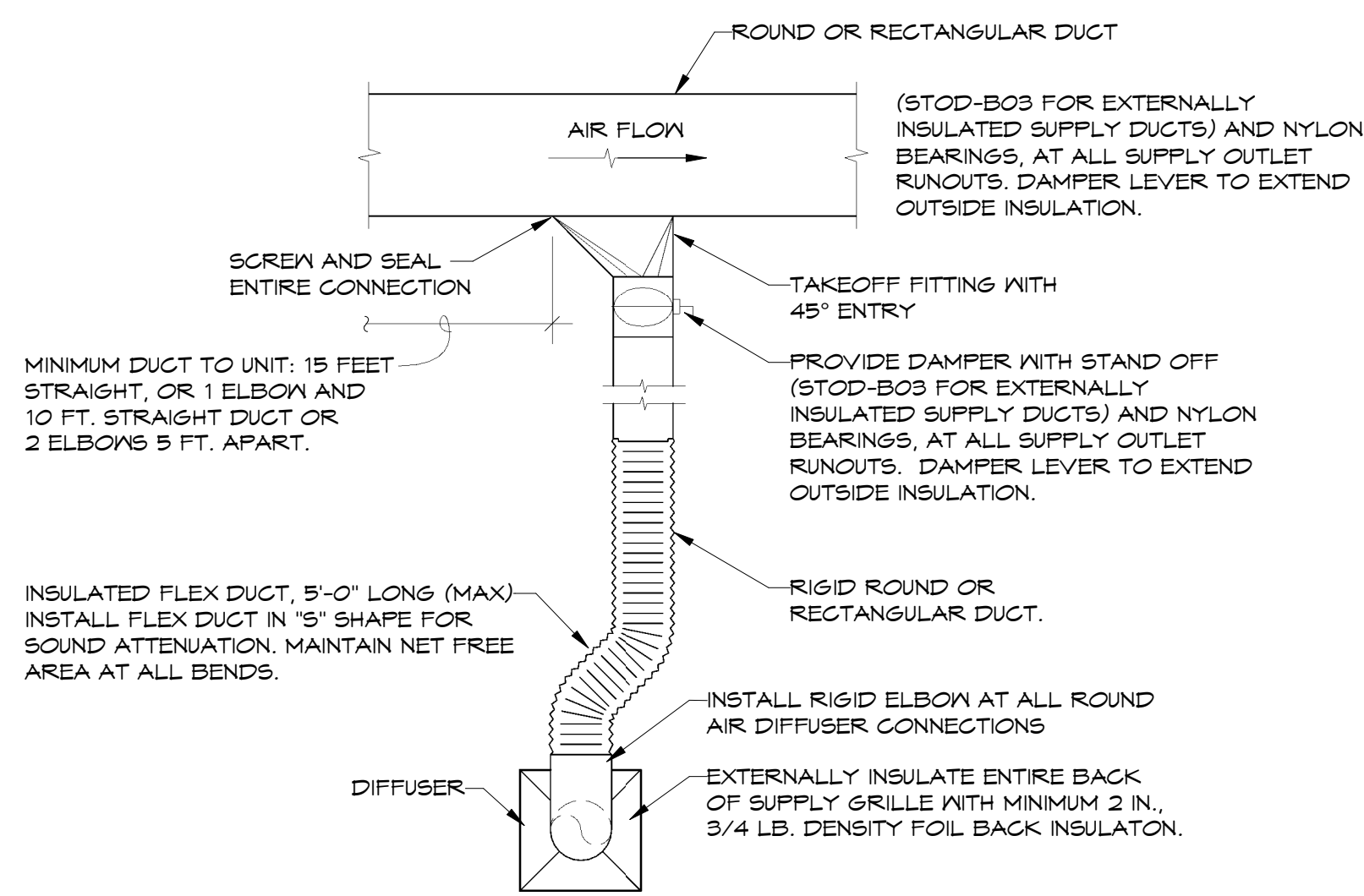
ROUTE SUPPLY & RETURN AIR DUCT BETWEEN JOIST AND COORDINATE RECTANGLE DUCT WITH LIGHT LOCATIONS

2 HVAC PLAN
1/8" = 1'-0"

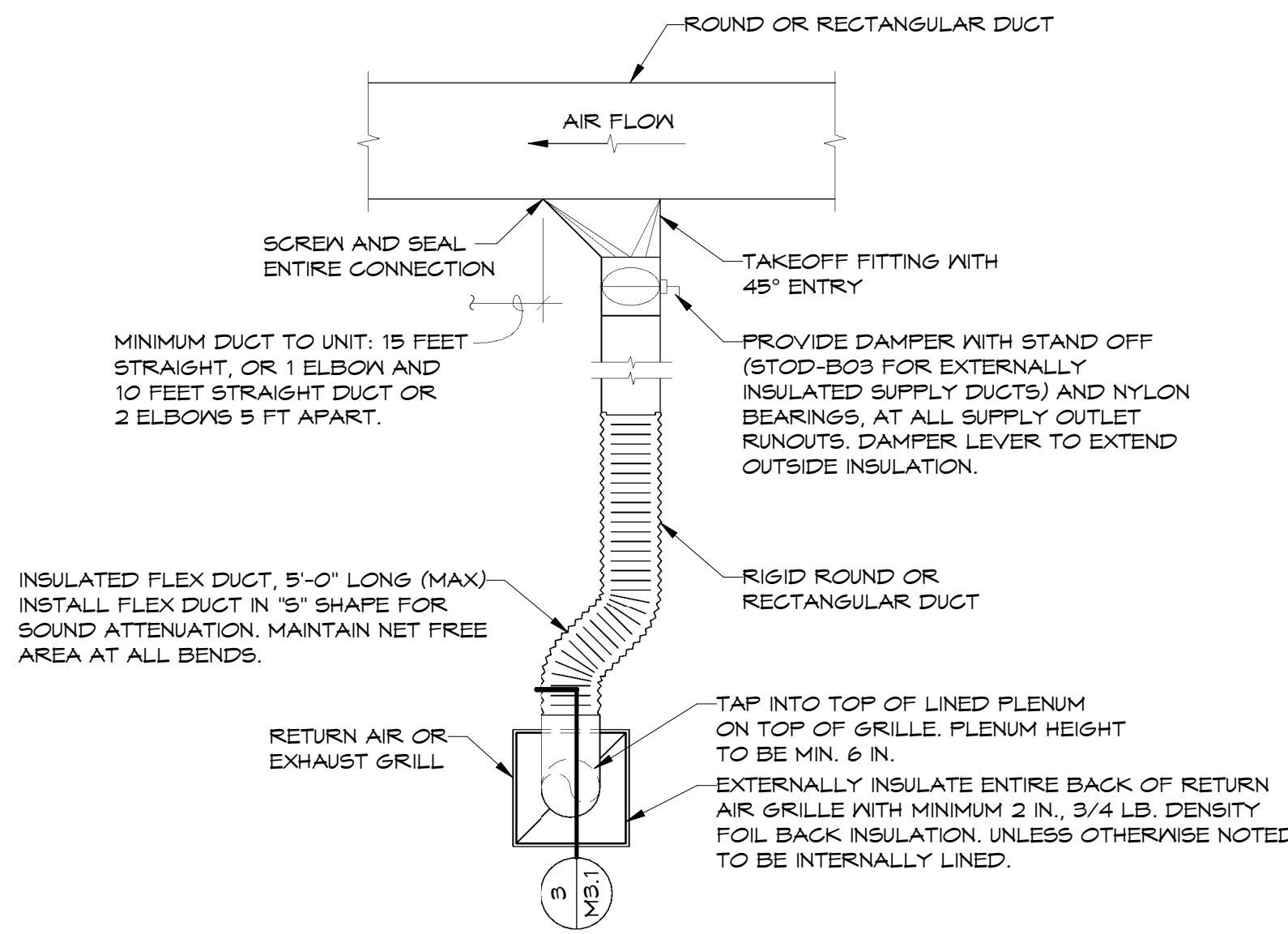


NOTES:
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REFER TO SHEET M3.1 FOR HVAC DETAILS. REFER TO SHEET M5.1 FOR HVAC SCHEDULES.

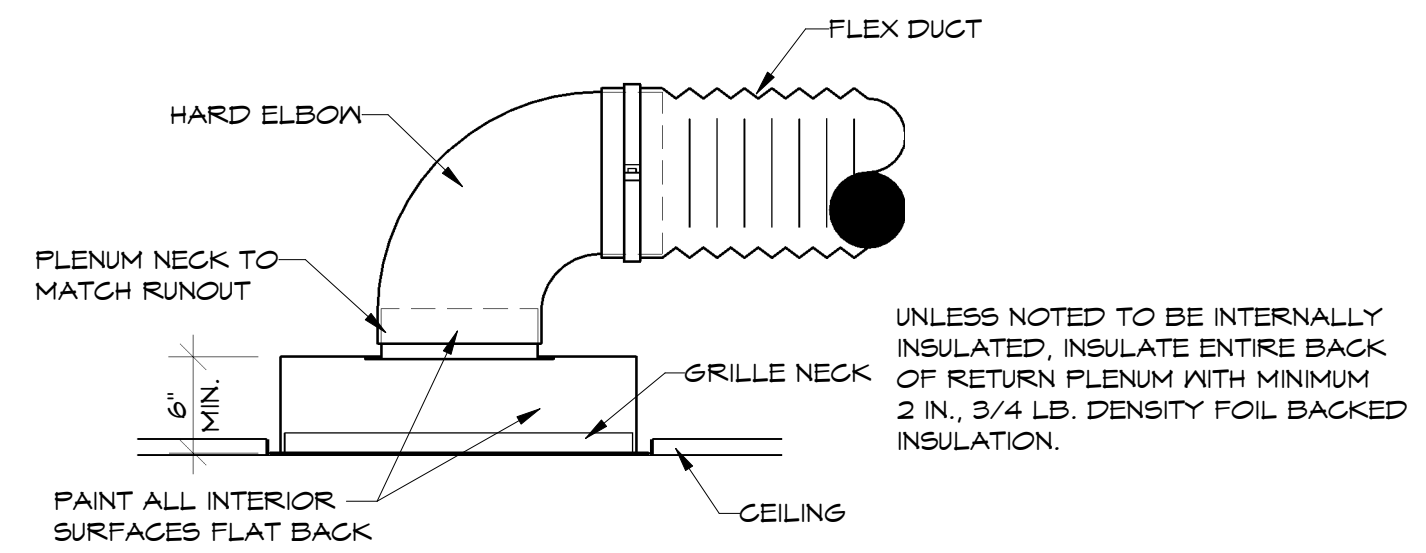
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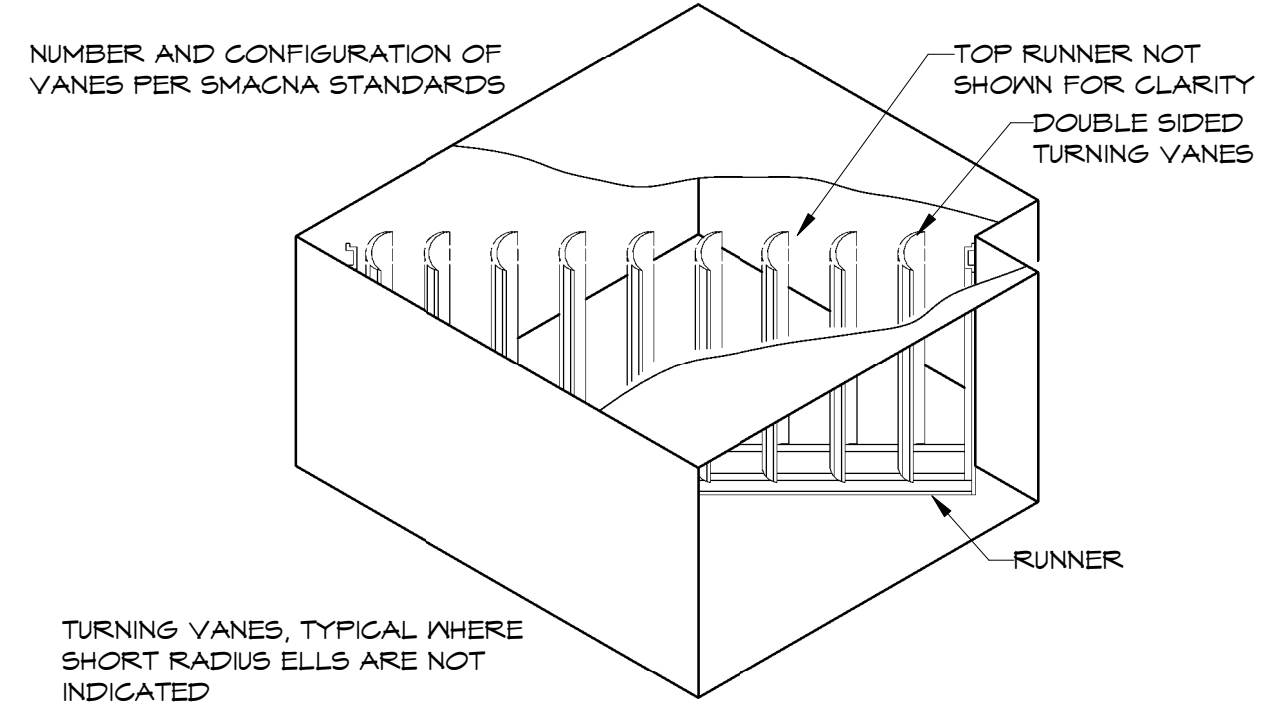
1 SUPPLY DUCT CONNECTION DETAIL
 N.T.S.



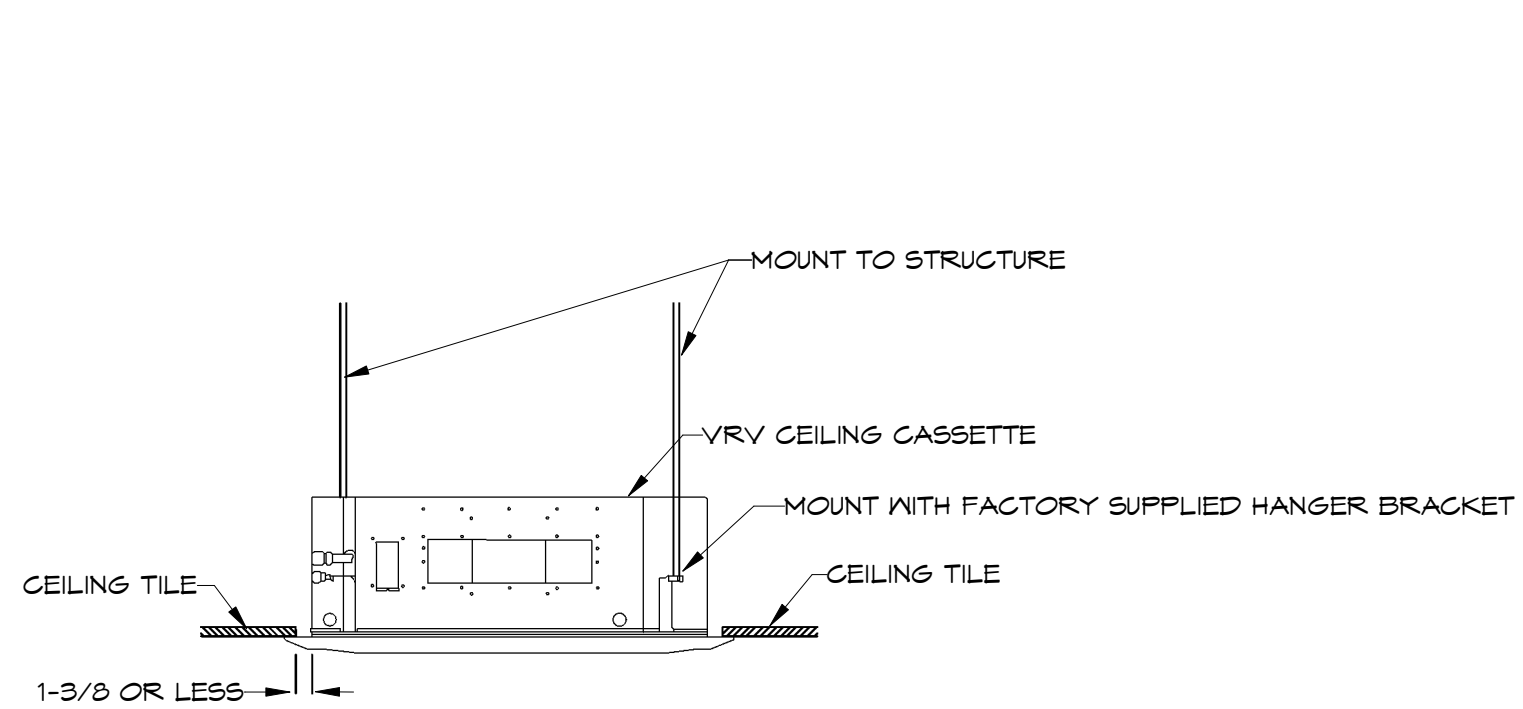
2 RETURN DUCT CONNECTION DETAIL
 N.T.S.



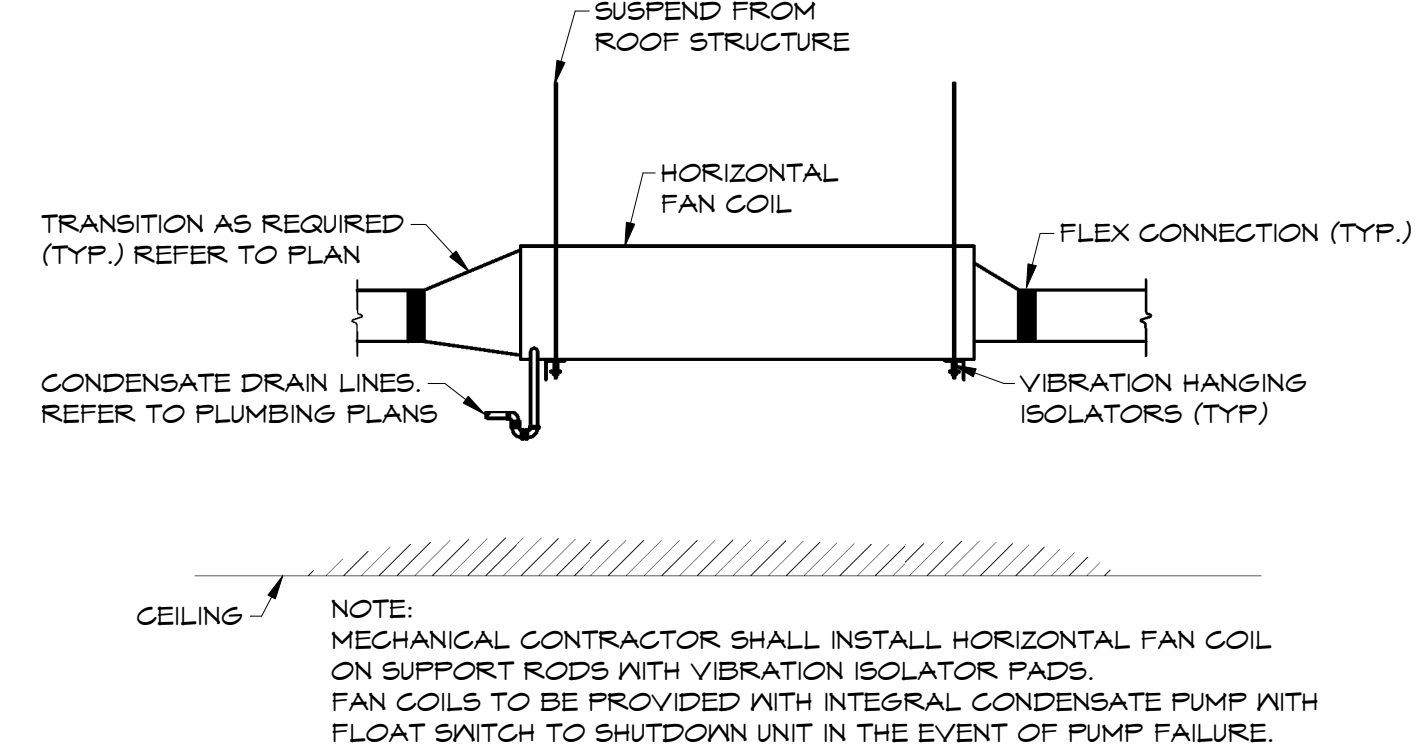
3 RETURN GRILLE CONNECTION SECTION
 N.T.S.



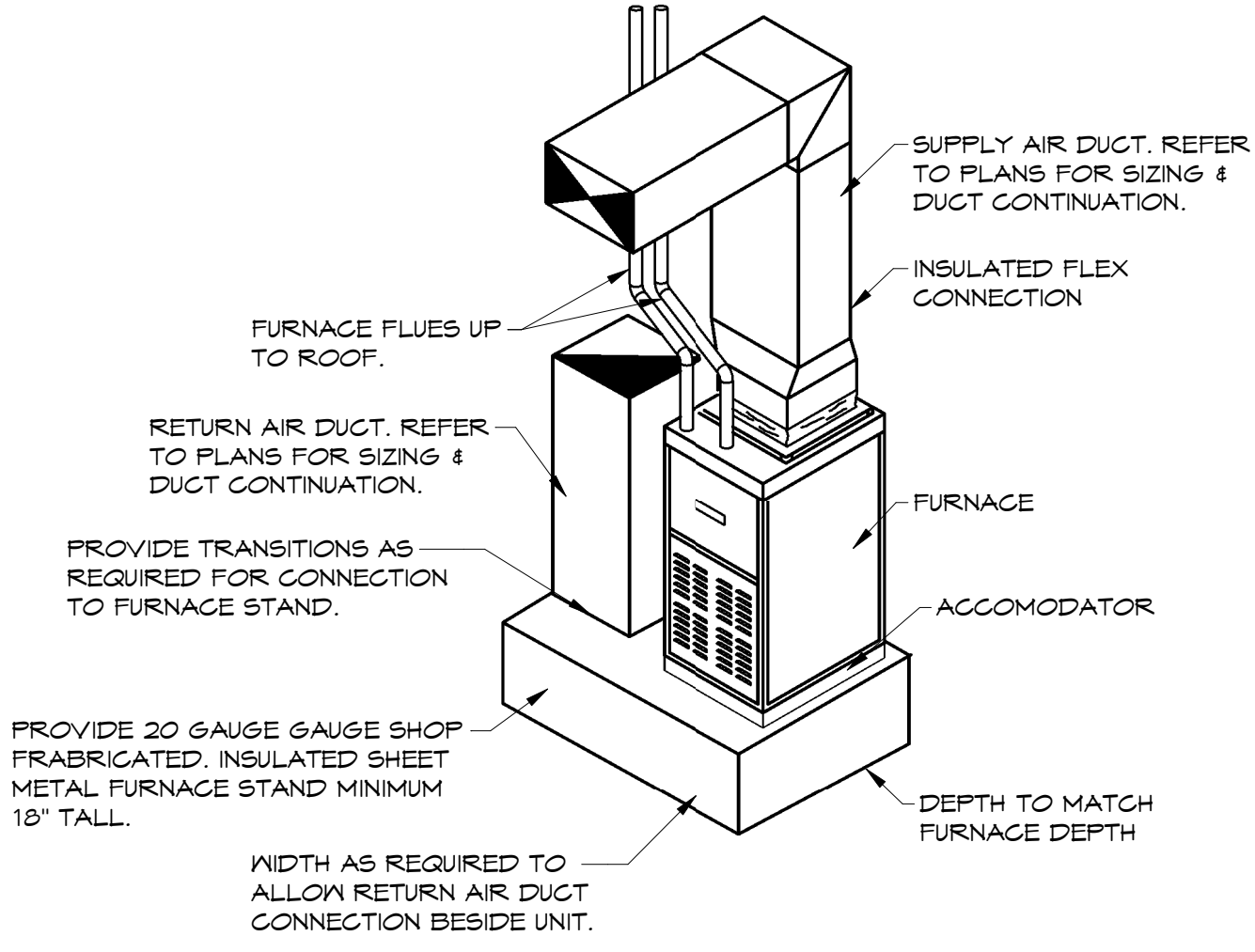
4 TURNING VANE DETAIL
 N.T.S.



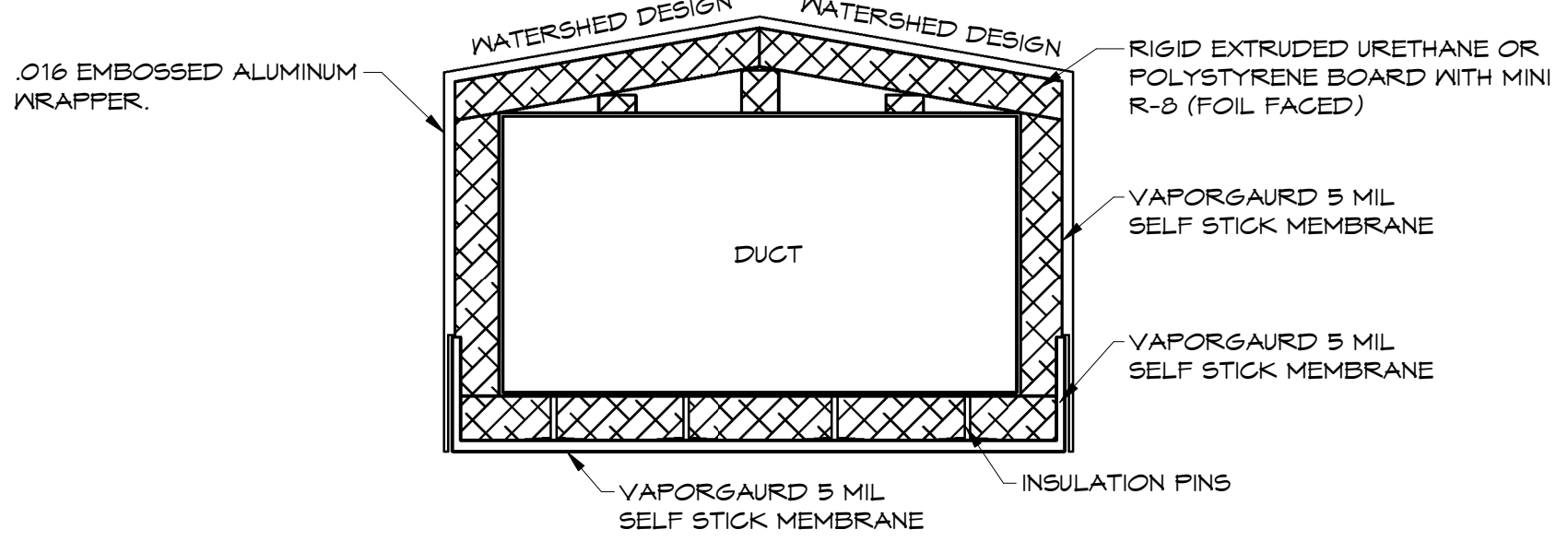
5 VRV CASSETTE DETAIL
 N.T.S.



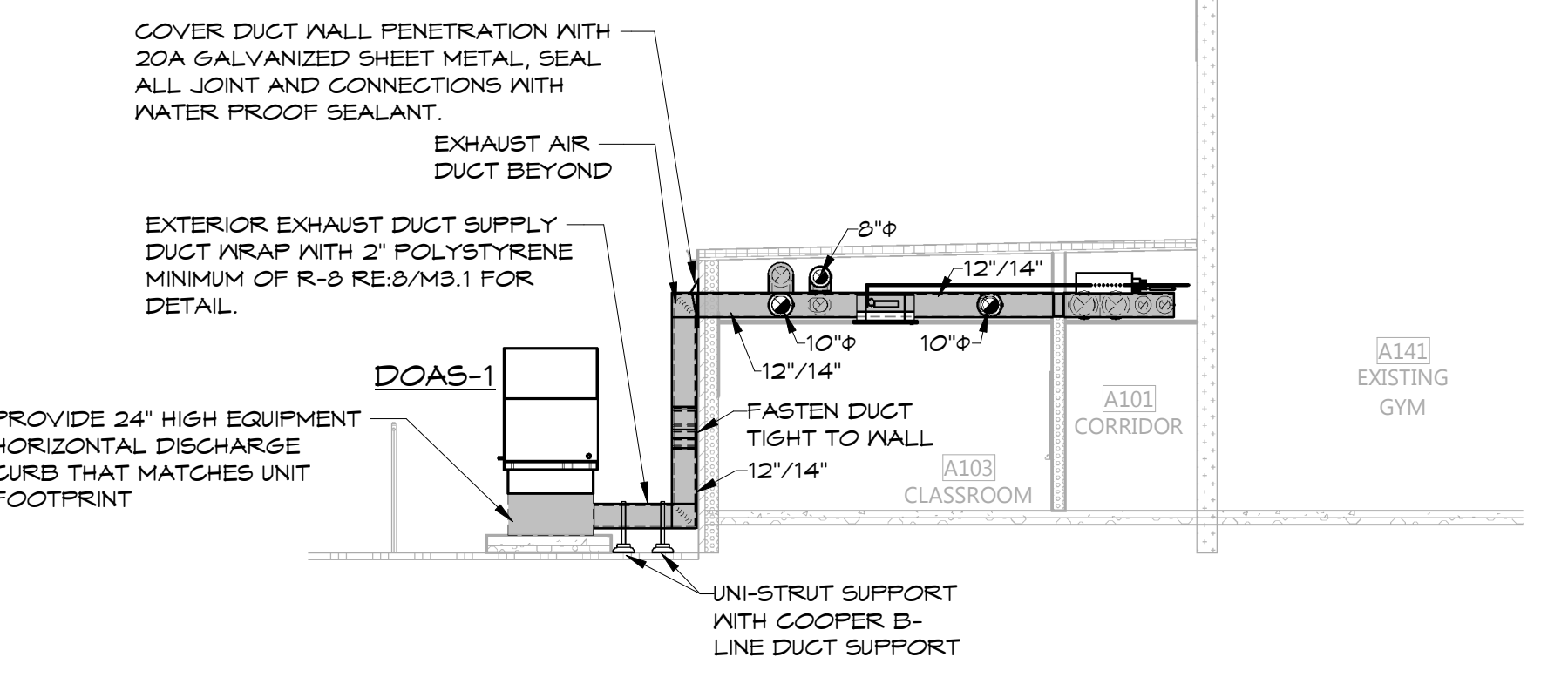
6 HORIZONTAL AIR HANDLER
 N.T.S.



7 FURNACE STAND DETAIL
 N.T.S.



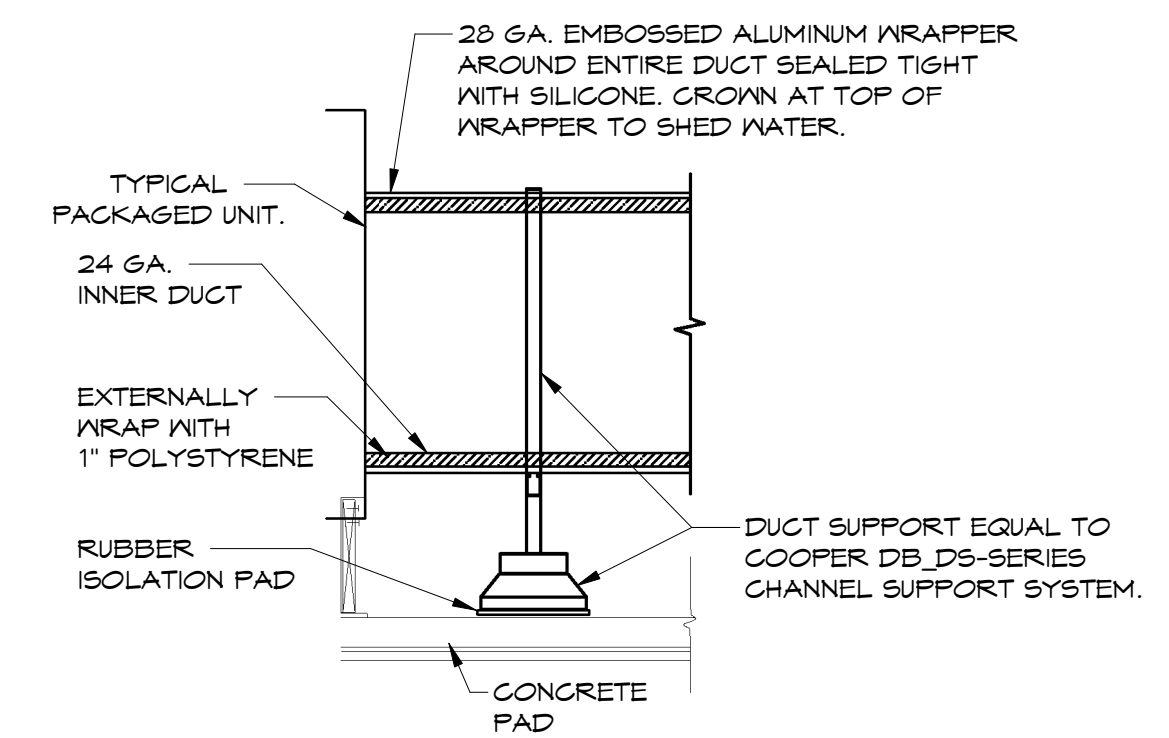
8 EXTERIOR DUCT INSULATION DETAIL
 N.T.S.



9 DOAS DUCT SECTION
 N.T.S.

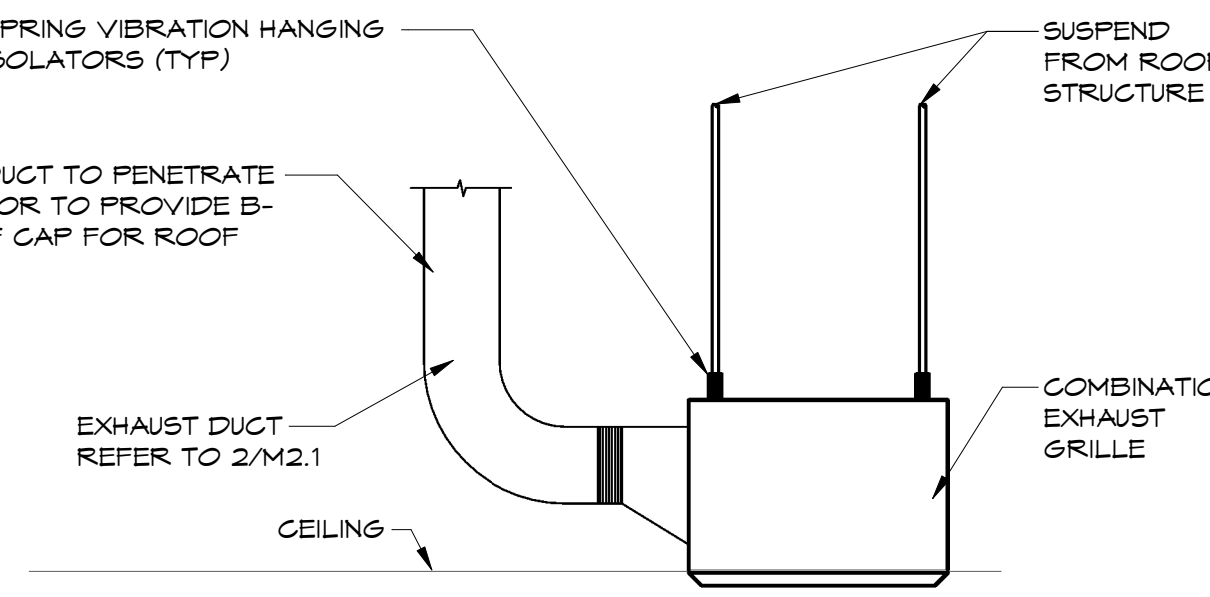
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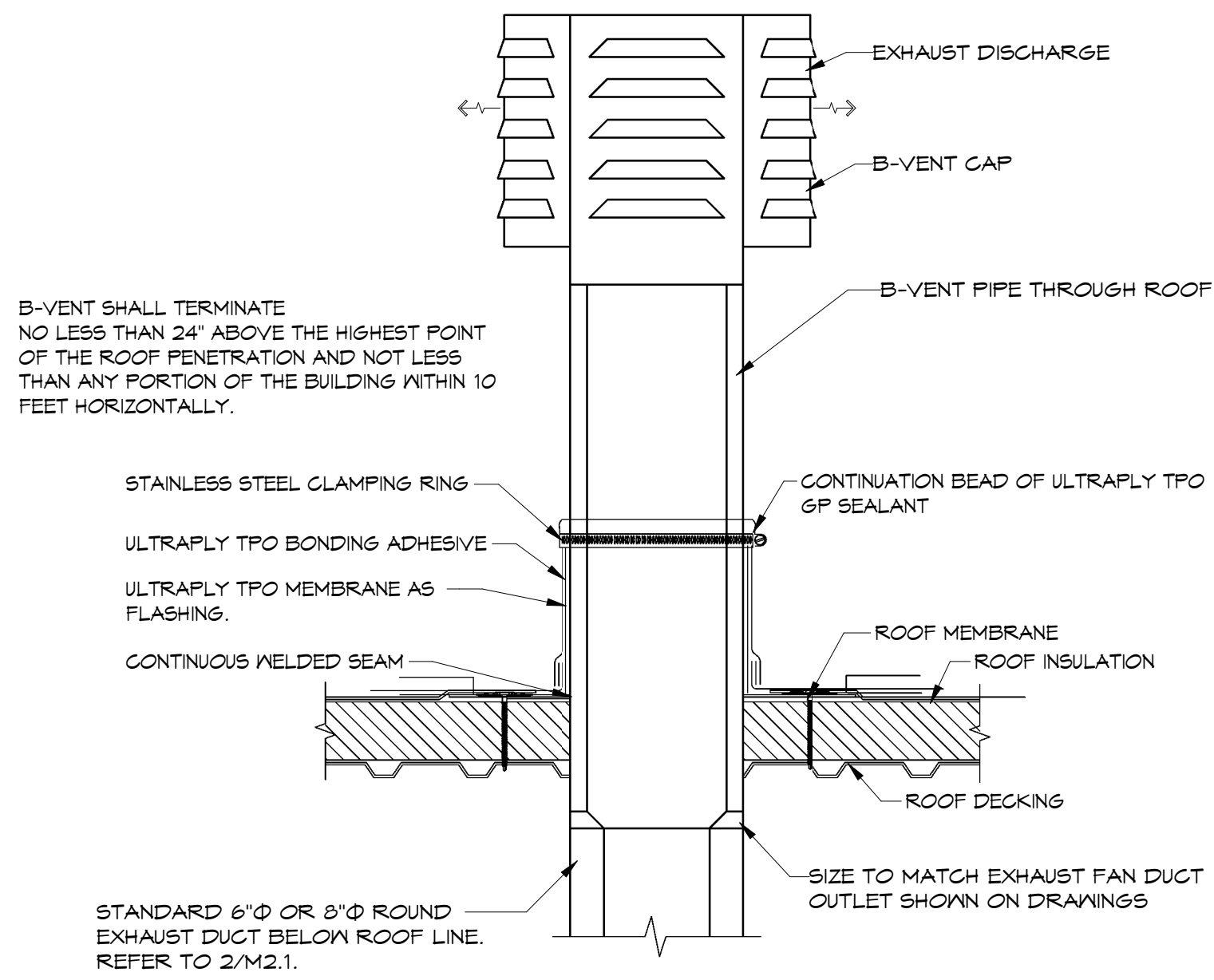


- NOTES:
1. DUCT SHALL BE SUPPORTED AT ALL ELBOWS AND TEES AND AT 10 FT. MAX SPACING.
2. DO NOT ATTACH BLOCKING TO CONCRETE PAD.
3. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

③ EXTERIOR DUCT SUPPORT DETAIL
NTS

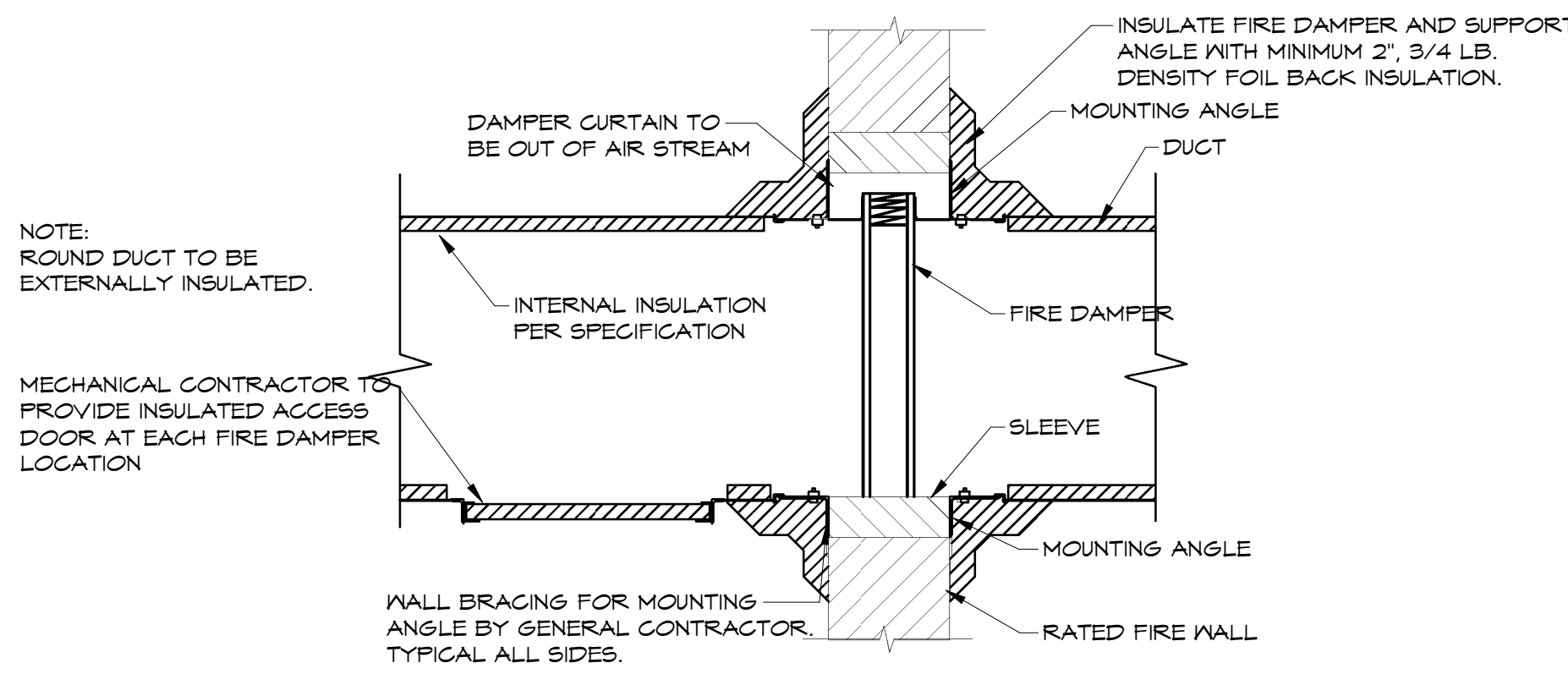


② EXHAUST FAN DETAIL
NTS



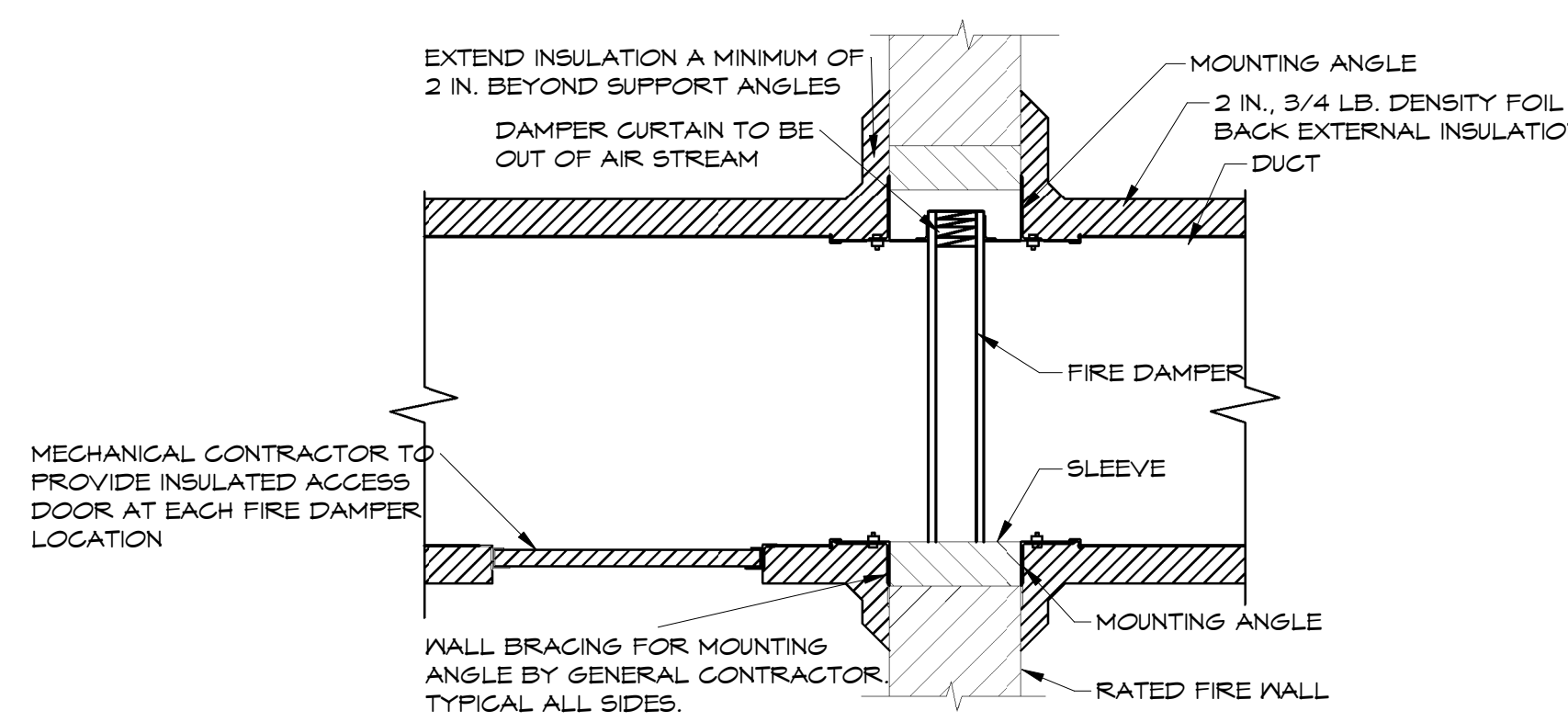
① B-VENT CAP DETAIL
NTS

NOTE:
TYPICAL INSTALLATION SHOWN FOR VERTICAL FIRE DAMPER. HORIZONTAL FIRE DAMPERS TO BE SPRING LOADED. ALL FIRE DAMPERS AND INSTALLATIONS TO CONFORM TO N.F.P.A. 90A & B AND ALL STATE AND LOCAL CODES. FIRE DAMPERS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE LATEST U.L. SAFETY STANDARD 955 AND U.L. LABELED AS A DYNAMIC RATED FIRE DAMPER. (STATIC RATED FIRE DAMPERS ARE NOT ALLOWED).

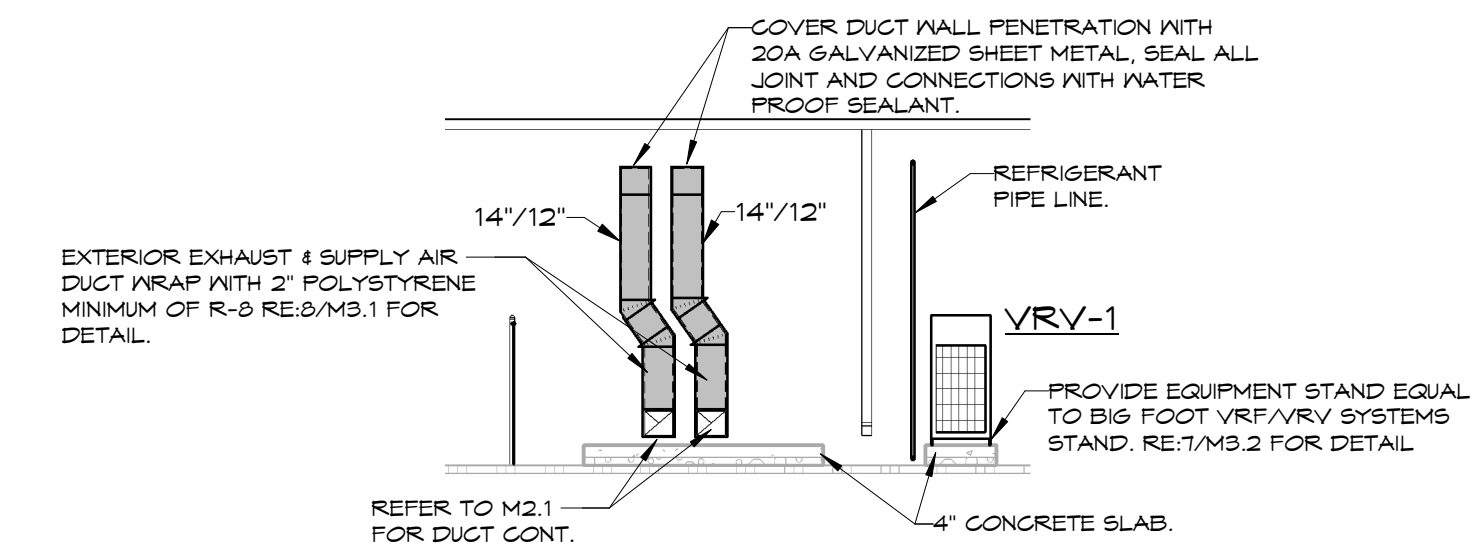


④ INTERNALLY LINED FIRE DAMPER DETAIL
NTS

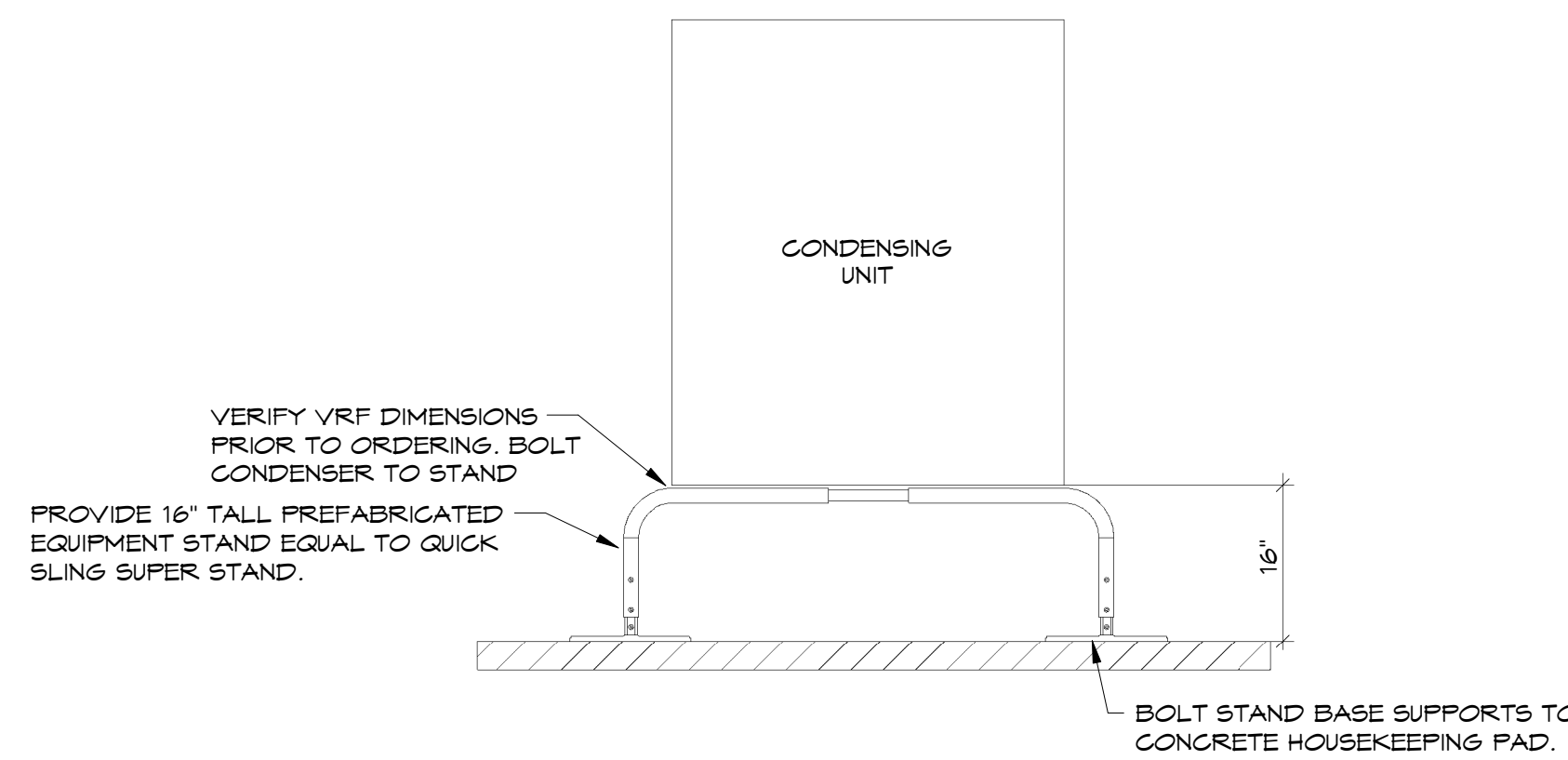
NOTE:
TYPICAL INSTALLATION SHOWN FOR VERTICAL FIRE DAMPER. HORIZONTAL FIRE DAMPERS TO BE SPRING LOADED. ALL FIRE DAMPERS AND INSTALLATIONS TO CONFORM TO N.F.P.A. 90A & B AND ALL STATE AND LOCAL CODES. FIRE DAMPERS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE LATEST U.L. SAFETY STANDARD 955 AND U.L. LABELED AS A DYNAMIC RATED FIRE DAMPER. (STATIC RATED FIRE DAMPERS ARE NOT ALLOWED).



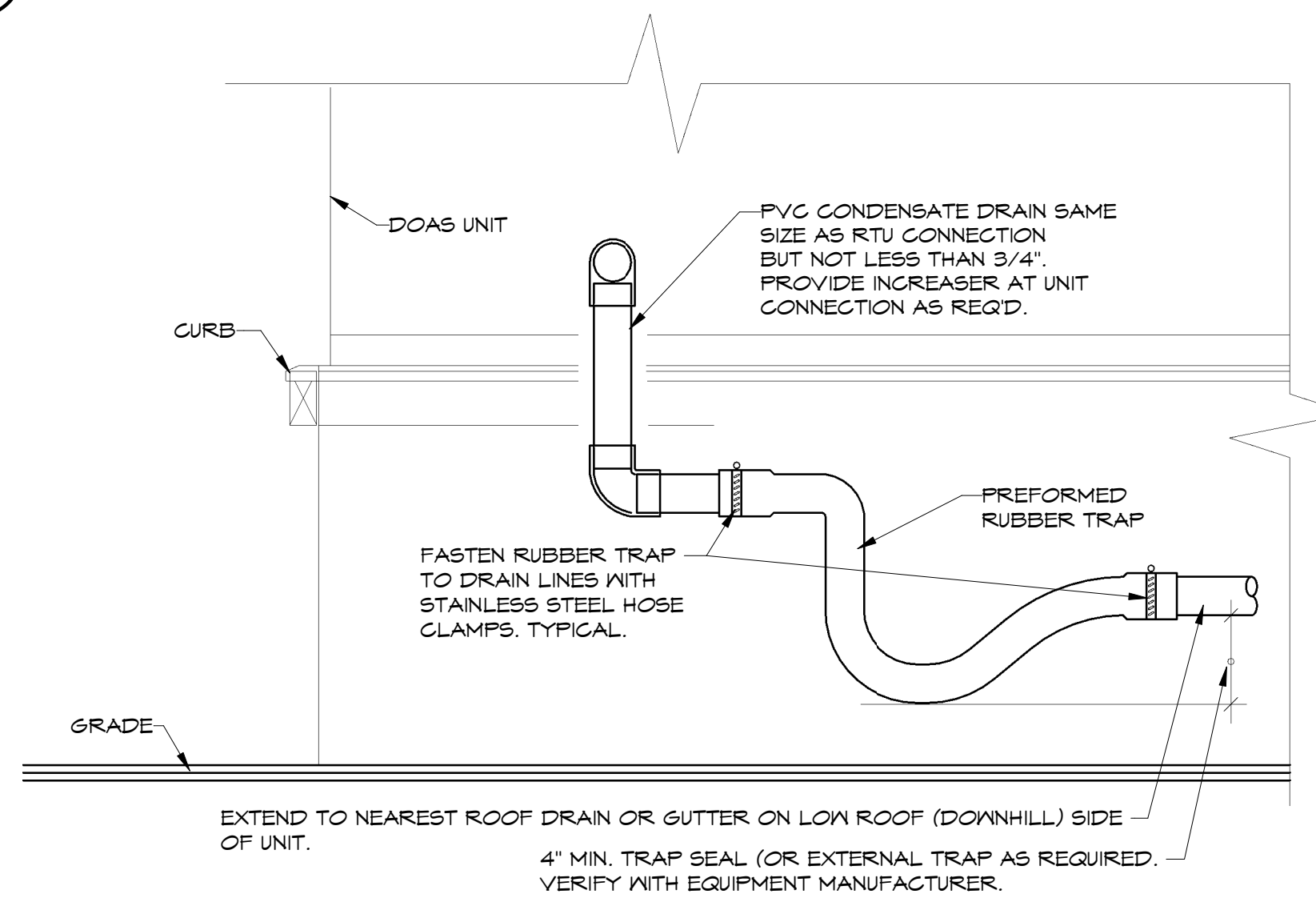
⑤ EXTERNALLY INSULATED FIRE DAMPER DETAIL
NTS



⑥ DOAS DUCT SECTION B
NTS



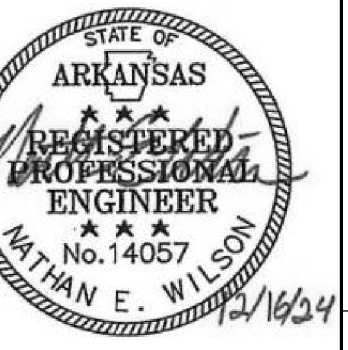
⑦ VRF CONDENSER STAND
NTS



⑧ DOAS UNIT 3/4\"/>

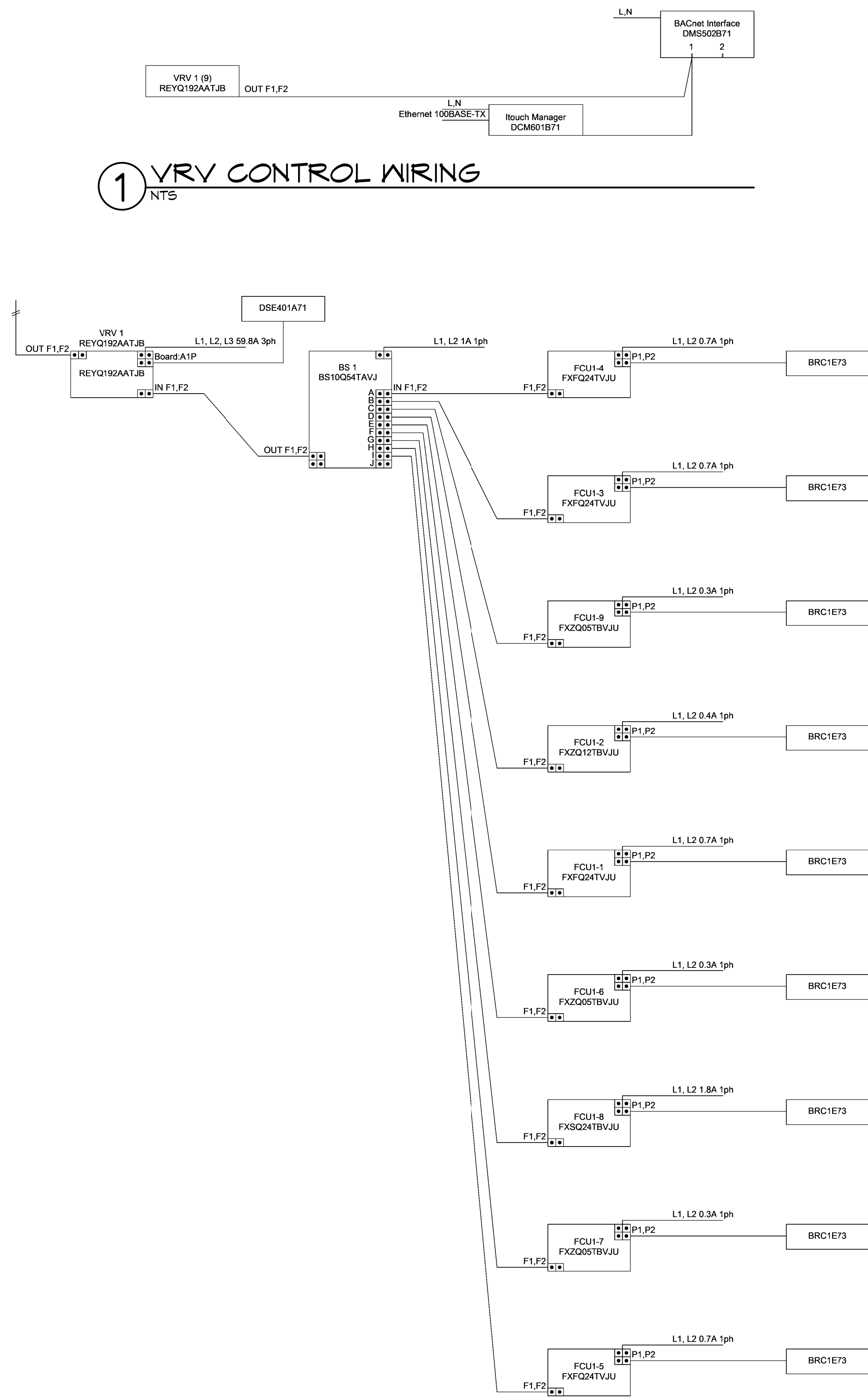
- NOTES:
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1 VRV CONTROL WIRING

NTS



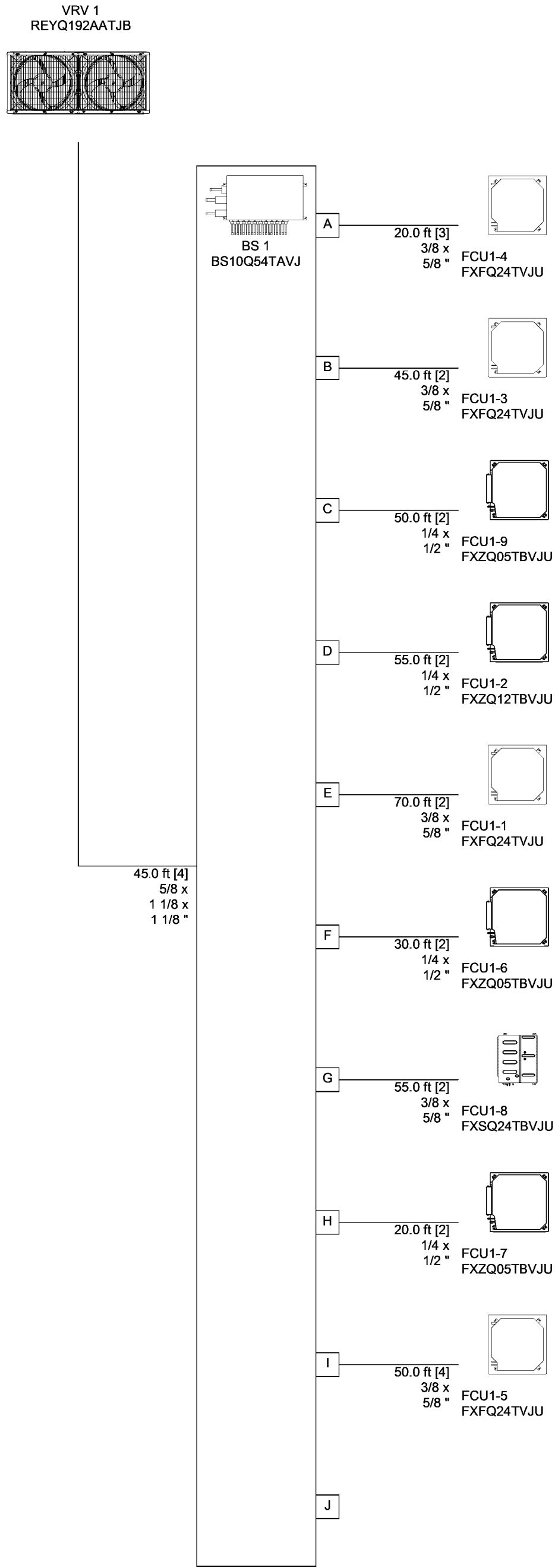
NOTE:
MECHANICAL CONTRACTOR TO COORDINATE
FINAL EQUIPMENT PIPING LENGTHS AND FINAL
CONNECTION ORDER WITH EQUIPMENT
SUPPLIER PRIOR TO INSTALLATION

2 VRV CONTROL WIRING DETAIL

NTS

3 VRV PIPING DETAIL

NTS



NOTES:
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NOTES. REFER TO SHEET M2.1 FOR HVAC PLANS REFER TO SHEET
M3.1 FOR DETAILS. REFER TO SHEET M5.1 FOR HVAC SCHEDULES.

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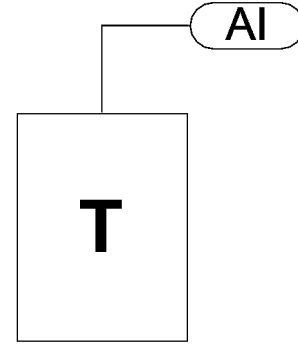
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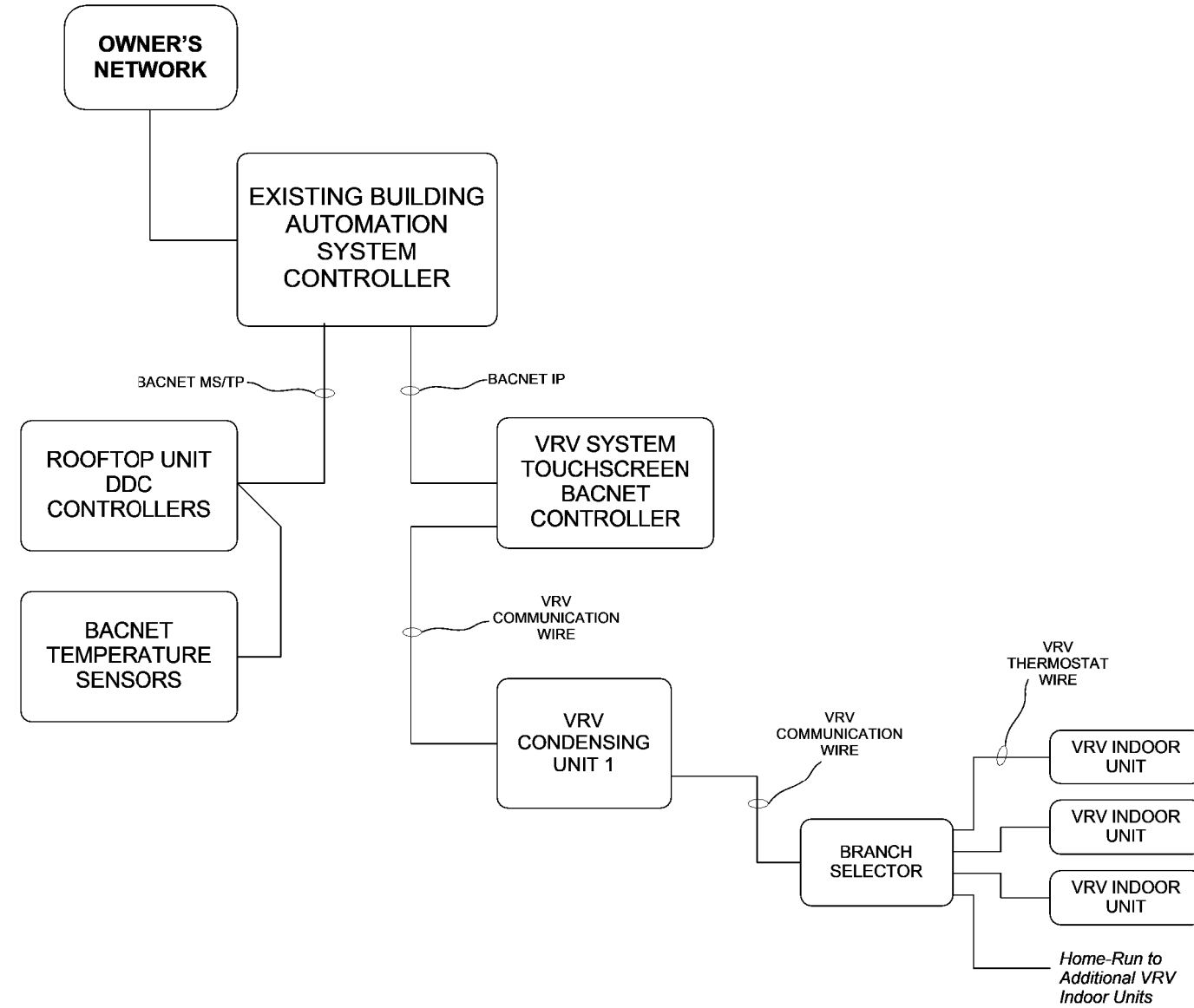
NEW SPACE TEMPERATURE SENSOR



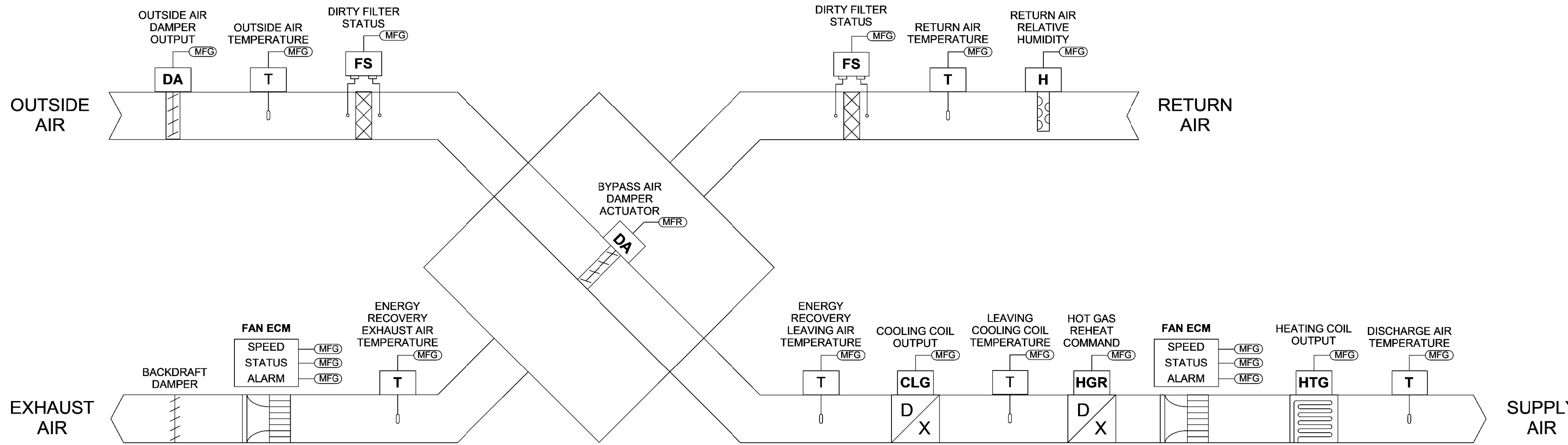
LOCATIONS:

- MALE RESTROOM (SERVED BY MINI-SPLIT)
- FEMALE RESTROOM (SERVED BY MINI-SPLIT)
- FAMILY RESTROOM
- COACHES ROOM
- BOILER ROOM
- ROOM 7

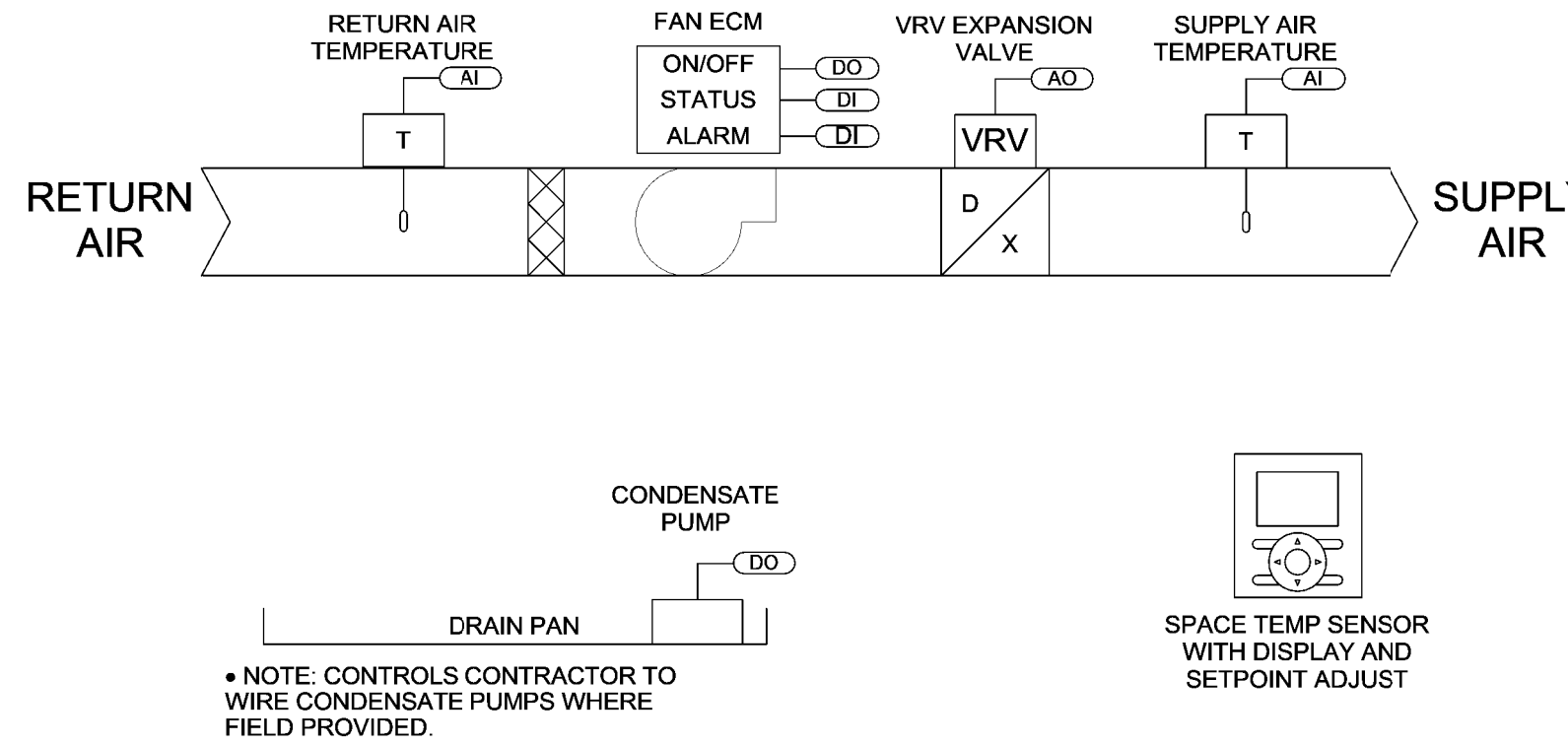
1 TEMPERATURE MONITORING



2 NETWORK RISER



4 DEDICATED OUTSIDE AIR UNIT CONTROL



3 VRV FAN COIL UNIT CONTROL

VRV FAN COIL UNIT SEQUENCE OF OPERATION

MODE OF OPERATION:
THE UNIT SHALL BE SET AND LOCKED IN AUTO MODE AT THE THERMOSTAT SO THAT BOTH HEATING AND COOLING OPERATION CAN OCCUR AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE AT SETPOINT. THE SYSTEM MODE SHALL BE EITHER OCCUPIED OR UNOCCUPIED BASED ON A BUILDING AUTOMATION SYSTEM (BAS) SCHEDULE, AN OPERATOR OVERRIDE COMMAND FROM THE BAS, OR A TEMPORARY OCCUPANCY OVERRIDE SIGNAL FROM THE SPACE TEMPERATURE SENSOR. COMMANDS OR OVERRIDES FROM THE BAS SHALL TAKE PRIORITY OVER ANY LOCAL CHANGES MADE AT THE SPACE SENSOR.

OCCUPIED MODE:
THE SYSTEM SHALL ALLOW FOR EITHER LOCAL CONTROL (SETPOINT INPUT AT THERMOSTAT) OR BAS CONTROL (SETPOINT INPUT AT BAS) OF THE SETPOINT. THE SPACE TEMPERATURE SENSOR SHALL BE SET FOR A SINGLE OCCUPIED SPACE COOLING TEMPERATURE SETPOINT. THE OCCUPIED SPACE TEMPERATURE HEATING SETPOINT SHALL BE CALCULATED USING AN OFFSET DIFFERENTIAL VALUE OF 3°F (ADJ). THE INITIAL OCCUPIED SPACE TEMPERATURE COOLING SETPOINT SHALL BE 72°F (ADJ). THE INITIAL OCCUPIED SPACE HEATING SETPOINT IS AUTOMATICALLY SET TO 69°F BASED ON THE 3°F DIFFERENTIAL VALUE. THE OCCUPIED SPACE TEMPERATURE SETPOINT RANGE SHALL BE LIMITED TO WITHIN +/-2°F OF THE UNOCCUPIED SPACE TEMPERATURE SETPOINTS.

THE UNIT FAN SHALL BE ON CONTINUOUSLY DURING OCCUPIED OPERATION.

ON AN INCREASE IN SPACE TEMPERATURE ABOVE THE OCCUPIED SPACE TEMPERATURE SETPOINT, THE UNIT ELECTRONIC EXPANSION VALVE SHALL MODULATE AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE AT THE UNOCCUPIED SPACE TEMPERATURE SETPOINT. INTERNAL PID LOOP CONTROL OF THE ELECTRONIC EXPANSION VALVE SHOULD BE UTILIZED TO MINIMIZE OVER/UNDERSHOOTING OF THE SPACE TEMPERATURE FROM SETPOINT. ONCE COOLING OPERATION HAS BEEN ENGAGED, THE UNIT SHALL NOT BE ALLOWED TO ENTER INTO HEATING OPERATION UNTIL THE SPACE TEMPERATURE HAS RISEN 1°F BELOW THE OCCUPIED SPACE TEMPERATURE SETPOINT FOR AT LEAST 15 MIN. IF THE SPACE TEMPERATURE FALLS MORE THAN 2°F BELOW THE OCCUPIED SPACE TEMPERATURE SETPOINT, THE 15 MIN GUARD TIMER DELAY SHALL BE BYPASSED AND THE SYSTEM SHALL SWITCH FROM COOLING OPERATION TO HEATING OPERATION.

ON AN DECREASE IN SPACE TEMPERATURE BELOW THE OCCUPIED SPACE TEMPERATURE SETPOINT, THE UNIT ELECTRONIC EXPANSION VALVE SHALL MODULATE AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE AT THE UNOCCUPIED SPACE TEMPERATURE SETPOINT. INTERNAL PID LOOP CONTROL OF THE ELECTRONIC EXPANSION VALVE SHOULD BE UTILIZED TO MINIMIZE OVER/UNDERSHOOTING OF THE SPACE TEMPERATURE FROM SETPOINT. IF THE SPACE TEMPERATURE REMAINS BELOW HEATING SETPOINT WITH THE VRV OPERATING IN FULL HEATING, THE AUXILIARY HEAT SHALL BE COMMANDED ON TO MEET THE SPACE TEMPERATURE SETPOINT.

ONCE HEATING OPERATION HAS BEEN ENGAGED, THE UNIT SHALL NOT BE ALLOWED TO ENTER INTO COOLING OPERATION UNTIL THE SPACE TEMPERATURE HAS RISEN 1°F BELOW THE OCCUPIED SPACE TEMPERATURE SETPOINT FOR AT LEAST 15 MIN. IF THE SPACE TEMPERATURE RISES MORE THAN 2°F ABOVE THE OCCUPIED SPACE TEMPERATURE SETPOINT, THE 15 MIN GUARD TIMER DELAY SHALL BE BYPASSED AND THE SYSTEM SHALL SWITCH FROM HEATING OPERATION TO COOLING OPERATION.

UNOCCUPIED MODE:
DURING UNOCCUPIED OPERATION, THE SYSTEM SHALL BE SUBJECT TO THE UNOCCUPIED MODE HEATING AND COOLING SETPOINTS. THE INITIAL UNOCCUPIED HEATING SETPOINT SHALL BE 65°F (ADJ). THE INITIAL UNOCCUPIED COOLING SETPOINT SHALL BE 80°F (ADJ).

THE SPACE TEMPERATURE SENSOR SHALL BE EQUIPPED WITH A TEMPORARY OCCUPANCY OVERRIDE FEATURE THAT SHALL OVERRIDE THE SYSTEM INTO OCCUPIED MODE FOR A PERIOD OF 2 HOURS (ADJ).

DOAS SEQUENCE OF OPERATIONS:

MODE OF OPERATION:
THE UNIT MODE OF OPERATION SHALL BE EITHER OCCUPIED OR UNOCCUPIED. MODE OF OPERATION SHALL BE DETERMINED BY THE BUILDING AUTOMATION SYSTEM (BAS) SCHEDULE OR OVERRIDE COMMAND FROM THE BAS. THE DOAS UNIT IS INTENDED TO PROVIDE ROOM NEUTRAL AIR FOR VENTILATION DURING THE OCCUPIED MODE.

OCCUPIED OPERATION:
THE SUPPLY FAN WILL OPERATE CONTINUOUSLY. THE FAN WILL RUN AT A CONSTANT SPEED (SPEED SET DURING TEST AND BALANCE) TO MAINTAIN THE SCHEDULED VENTILATION RATE OF THE UNIT.

THE EXHAUST FAN WILL OPERATE CONTINUOUSLY. THE FAN WILL RUN AT A CONSTANT SPEED (SPEED SET DURING TEST AND BALANCE) TO MAINTAIN THE SCHEDULED EXHAUST RATE OF THE UNIT.

THE UNIT SHALL OPERATE IN THE FACTORY CONTROLLER'S "DEHUMIDIFICATION ALWAYS" MODE OF OPERATION. WHEN THE LEAVING COOLING COIL AIR TEMPERATURE RISES ABOVE ITS SETPOINT OF 55°F (ADJUSTABLE AT UNIT CONTROLLER), THE UNIT VARIABLE SPEED COMPRESSOR(S) WILL BE MODULATED TO MAINTAIN THE LEAVING COIL AIR TEMPERATURE AT SETPOINT. WHEN THE UNIT DISCHARGE AIR TEMPERATURE IS BELOW ITS SETPOINT OF 70°F (ADJUSTABLE AT THE UNIT CONTROLLER), THE UNIT GAS HEATING COIL WILL BE MODULATED TO MAINTAIN THE UNIT DISCHARGE AIR TEMPERATURE AT SETPOINT.

UNOCCUPIED OPERATION:
THE SUPPLY AND EXHAUST FAN SHALL BE OFF, THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED, AND ALL HEATING AND COOLING COMMANDS SHALL BE DISABLED. THE UNIT SHALL REMAIN IN UNOCCUPIED MODE UNTIL COMMANDED ON BY THE BAS VIA SCHEDULE OR OPERATOR OVERRIDE COMMAND.

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DOAS SCHEDULE (OWNER PROVIDED)

MARK	MFG.	MODEL	SUPPLY ESP IN. WG	EXHAUST ESP IN. WG	SUPPLY CFM	EXHAUST CFM	COOLING			HEATING			ENERGY RECOVERY VENTILATOR						SUPPLY MOTOR KW	EXHAUST MOTOR KW	ELECTRICAL			UNIT WEIGHT LBS.	REMARKS / ACCESSORIES
							TMBH	EAT °F (DB/WB)	LAT °F (DB/WB)	TMBH	EAT °F	LAT °F	SUMMER CONDITIONS			WINTER CONDITIONS					M.C.A.	M.O.P.	VOLT/PH/HZ		
													OSA EAT °F (DB/WB)	EX. EAT °F (DB/WB)	LAT °F (DB/WB)	OSA EAT °F (DB/WB)	EX. EAT °F (DB/WB)	LAT EAT °F (DB/WB)							
DOAS-1	DAIKIN	DPSC05	1.0	1.0	1040	800	51.1	81/68	52/51	64.8	46.4	105	95/78	75/62	81/68	7/5	70/50	46/36	1.2	1.2	35.4	50	208 / 3 / 60	1240	1 THRU 16

REMARKS/ACCESSORIES

- FACTORY INSTALLED BAGNET CONTROLLER TO CONNECT TO BAS.
- 2" MERV 8 PLEATED MEDIA FILTER.
- 100% MODULATING INVERTER DRIVEN COMPRESSORS.
- 2" DOUBLE WALL FOAM INSULATED PANELS.
- HINGED ACCESS DOORS.
- VARIABLE SPEED ECM/VFD MOTORS ON ALL FANS (SUPPLY, EXHAUST AND CONDENSER)
- MODULATING HOT GAS REHEAT COIL FOR DEHUMIDIFICATION (MINIMUM OF 10°F LAT)
- STAINLESS STEEL DOUBLE SLOPED DRAIN PAN.
- LOW LEAK DAMPERS.
- PROVIDE WITH ENERGY RECOVERY ENTHALPY WHEEL.
- LCD CONTROLLER FOR UNIT DIAGNOSTICS AND OPERATIONAL SETPOINTS.
- FAN AND MOTOR SPRING ISOLATION.
- PROVIDE WITH 24" TALL HORIZONTAL DISCHARGE CURB.
- NON-FUSED DISCONNECT SWITCH AND NON POWERED CONVINCE OUTLET.
- PROVIDE FACTORY INSTALLED RETURN AIR SMOKE DETECTORS.
- PROVIDE WITH STAINLESS STEEL GAS HEAT EXCHANGER WITH MODULATING 5:1 TURNDOWN.

VRV AIR-COOLED CONDENSER SCHEDULE (OWNER PROVIDED)

MARK	MFG.	MODEL	NOM. TONS	COOLING		HEATING		REFRIGERANT CHARGE		ELECTRICAL			NET WEIGHT (LBS)	REMARKS / ACCESSORIES
				MBH	AMBIENT DESIGN °F DB	MBH	AMBIENT DESIGN °F DB/WB	FACTORY (LBS)	EST. ADD'L REF (LBS)	MCA	MOP	VOLT/PH/HZ		
VRV-1	DAIKIN	REYQ192AATJB	16	131.4	95	140.2	7.0/4.0	25.8	52.8	59.8	60	208 / 3 / 60	960	1 THRU 16

REMARKS/ACCESSORIES

- SYSTEM RATING DATA BASED ON DESIGN AMBIENT CONDITION FOR COOLING AND FOR HEATING.
- SUBMITTED PERFORMANCE DATA MUST BE FULLY DE-RATED FOR ALL COMPONENTS AND ACCESSORIES, INCLUDED BUT NOT LIMITED TO, LINE LENGTH VERTICAL SEPARATION AND CONNECTION RATIO.
- SYSTEM MUST PROVIDED CONTINUOUS HEATING DURING DEFROST AND OIL RETURN. SYSTEMS WITHOUT THIS CAPABILITY MUST BE DE-RATED TO ACCOUNT FOR HEATING LOST DURING DEFROST CYCLE AND UNIT.
- CONDENSING UNIT MUST HAVE FULLY MODULATING INVERTER COMPRESSORS AND AUTO CHANGEOVER FUNCTIONS.
- NON-VFD COMPRESSORS (INCLUDING DIGITAL SCROLL AND COMPRESSORS WITH HOT GAS BYPASS) WILL NOT BE PERMITTED.
- VRV SYSTEMS USING SCOLENOD CONTROL VALVES MUST INCLUDE FULL PORT ISOLATION VALVES BEFORE AND AFTER REFRIGERANT CONTROL BOX AND PROVIDE ACOUSTIC TREATMENT TO ATTENUATE VALVE NOISE BELOW NC 20 IN ALL OCCUPIED MODES. ISOLATION VALVES PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
- SYSTEM SHALL BE PROVIDED WITH I-TOUCH MANAGER CONTROLLER WITH WEB BASED SOFTWARE FOR DISPLAYING UP TO 8 DILL - NET SYSTEMS WITH 128 INDOOR UNITS PER SYSTEM. PC BY OTHERS.
- MANUFACTURERS SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS, AND REFRIGERANT VOLUME.
- SUBSTITUTE MANUFACTURER SHALL BE RESPONSIBLE FOR ADDITIONAL PIPING AND REFRIGERANT.
- CONTRACTOR TO VERIFY PIPING DIMENSIONS.
- INSTALLING CONTRACTOR MUST HAVE SUCCESSFULLY COMPLETED MANUFACTURERS CERTIFIED INSTALLATIONS CLASS WITHIN PAST 36 MONTHS.
- CONTRACTOR TO FURNISH AND INSTALL INSULATION ON REFRIGERANT PIPING. CONTRACTOR TO VERIFY ALL PIPING DIMENSIONS.
- MANUFACTURER REPRESENTATIVE MUST HAVE LOCAL STOCK OF PARTS, FACTORY CERTIFIED TECHNICIAN ON STAFF.
- MANUFACTURER MUST PROVIDE 10 YEARS PARTS WARRANTY ON ALL FCUs, CONDENSING UNITS MODEL CHANGEOVER DEVICES AND ZONE CONTROLS. WARRANTY CONDITIONS MUST BE CLARIFIED DURING SUBMITTAL PHASE.
- PROVIDE 16 INCH TALL PREFABRICATED EQUIPMENT STAND EQUAL TO BIG FOOT VRV/VRV SYSTEM STAND. VERIFY VRV EQUIPMENT DIMENSIONS PRIOR TO ORDERING. BOLT STAND BASE SUPPORTS TO CONCRETE HOUSEKEEPING PAD.
- HAIL GUARDS TO BE PROVIDED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR.

VRV ZONE HEAT RECOVERY DEVICE SCHEDULE (OWNER PROVIDED)

MARK	MANUFACT	MODEL	CONDENSING UNIT SERVED	MAX CAPACITY PER PORT MBH	M.C.A.	M.O.P.	VLT / PH / HZ	UNIT WEIGHT	ACCESSORIES
BS-1	DAIKIN	BS10G54TAVJ	VRV-1	54	1.0	15	208 / 1 / 60	105	1, 2, 3, 4

REMARKS/ACCESSORIES

- INDIVIDUAL CONTROL AND CHANGEOVER WITH EXTENDED RANGE OF PRODUCT OFFERING 4, 6, 10 AND 12 PORT OPTIONS.
- UNLIMITED NUMBER OF UNUSED PORTS PER BOX OR SYSTEM.
- NO DRAIN PIPING REQUIRED.
- STANDARD LIMITED WARRANTY: 10 YEARS WARRANTY ON ALL PARTS.

VRV INDOOR FAN COIL SCHEDULE (OWNER PROVIDED)

MARK	MFG.	MODEL	UNIT TYPE	CONDENSING UNIT SERVED	SUPPLY CFM	OUTSIDE AIR (CFM)	COOLING			HEATING		ELECTRICAL			REMARKS / ACCESSORIES
							TMBH	SMBH	EAT (DB)	TMBH	EAT	MCA	MOP	VOLT/PH/HZ	
FC1-1	DAIKIN	FXG24TVJJ	CEILING CASSETTE	VRV-1	775		19.0	16.9	73	26.9	70	0.7	15	208 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC1-2	DAIKIN	FXZQ12TBVJJ	CEILING CASSETTE	VRV-1	350		9.5	6.7	73	13.6	70	0.4	15	208 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC1-3	DAIKIN	FXG24TVJJ	CEILING CASSETTE	VRV-1	775		19.0	16.9	73	26.9	70	0.7	15	208 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC1-4	DAIKIN	FXG24TVJJ	CEILING CASSETTE	VRV-1	775		19.0	16.9	73	26.9	70	0.7	15	208 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC1-5	DAIKIN	FXG24TVJJ	CEILING CASSETTE	VRV-1	775		19.0	16.9	73	26.9	70	0.7	15	208 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC1-6	DAIKIN	FXZQ05TBVJJ	CEILING CASSETTE	VRV-1	300		4.7	4.3	73	6.4	70	0.3	15	208 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC1-7	DAIKIN	FXZQ05TBVJJ	CEILING CASSETTE	VRV-1	300		4.7	4.3	73	6.4	70	0.3	15	208 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC1-8	DAIKIN	FXG24TVJJ	CONCEALED DUCTED	VRV-1	740	100	19.2	14.9	73	27.0	70	1.8	15	208 / 1 / 60	1, 2, 3, 4, 5, 6, 8
FC1-9	DAIKIN	FXZQ05TBVJJ	CEILING CASSETTE	VRV-1	300		4.7	4.3	73	6.4	70	0.3	15	208 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC1-10	DAIKIN	FXG24TVJJ	CONCEALED DUCTED	VRV-1	335	20	9.5	8.3	73	13.5	70	0.8	15	208 / 1 / 60	1, 2, 3, 4, 5, 6, 8

REMARKS/ACCESSORIES

- INDOOR UNIT SELECTION SHOULD BE MADE USING ACTUAL CAPACITIES, NOT NOMINAL CAPACITIES OR MODEL NUMBERS. ALL COOLING AND HEATING CAPACITIES AND AIRFLOWS LISTED ABOVE ARE TO BE MET. SUBSTITUTIONS MUST MEET OR EXCEED EACH VALUE.
- INTEGRAL CONDENSATE PUMP FROM FACTORY WITH FLOAT SWITCH TO SHUT DOWN UNIT IN EVENT OF PUMP FAILURE.
- WIRED BACKLIT LED DISPLAY REMOTE TEMPERATURE SENSOR (MODE, ON/OFF, FAN SPEED, TEMP ADJUSTMENT, CANCEL AND PROGRAM MENU).
- FACTORY MOUNTED LEV (ELECTRONIC LIQUID EXPANSION VALVE).
- START-UP COMPANY TO HAVE COMPLETED SERVICE COURSE BY FACTORY AT FACTORY AUTHORIZED LOCATION. MUST BE APPROVED BY ENGINEER PRIOR TO TRAINING. 10 YEAR PARTS WARRANTY AND 1 YEAR LABOR WARRANTY. START DATE SET BY GENERAL CONTRACTOR.
- PROVIDE HANGING HARDWARE AS REQUIRED, SUPPORT UNIT FROM BUILDING STRUCTURE ABOVE. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE WITH SELF CLEANING FILTER KIT.
- PROVIDE WITH GPS NEEDLEPOINT BIPOLAR IONIZATION SYSTEM.

EXHAUST FAN SCHEDULE (OWNER PROVIDED)

MARK	MFG.	MODEL	CFM	ESP. IN WC	WATTS	INLET SONES	FAN RPM	ELECTRICAL		UNIT WEIGHT	REMARKS / ACCESSORIES	
								VOLT	PH / HZ			
EF-1	GREENHECK	SP-B110	100	0.5	80	2.6	812	115	1	60	10 lb	1, 2, 3, 4
EF-2	GREENHECK	SP-A200	100	0.5	95	3.7	823	115	1	60	24 lb	1, 2, 4, 5

REMARKS/ACCESSORIES

- PROVIDE FACTORY BACKDRAFT DAMPER.
- PROVIDE DIRECT DRIVE MOTOR WITH FAN SPEED CONTROLLER.
- INTERLOCK EXHAUST FAN WITH LIGHT SWITCH BY ELECTRICAL CONTRACTOR.
- PROVIDE STANDARD GRILLE CONSTRUCTION.
- PROVIDE WITH LINE VOLTAGE THERMOSTAT INSTALLED BY ELECTRICAL CONTRACTOR.

AIR DISTRIBUTION SCHEDULE

MARK	CFM	NECK SIZE	MFG.	MODEL	TYPE	FINISH	FRAME	REMARKS / ACCESSORIES
A	50-100	6"φ	TITUS	TMS	4-WAY SUPPLY	WHITE	SURFACE	1, 4, 6
B	50-100	6"φ	TITUS	TMS	4-WAY SUPPLY	WHITE	T-BAR LAYIN	1, 6
C	105-200	8"φ	TITUS	TMS	4-WAY SUPPLY	WHITE	T-BAR LAYIN	1
D	225-300	10"φ	TITUS	TMS	4-WAY SUPPLY	WHITE	T-BAR LAYIN	1
E	335	12"φ	TITUS	TMS	4-WAY SUPPLY	WHITE	T-BAR LAYIN	1
F	400-450	12" X 12"	TITUS	30F	EXHAUST	WHITE	SURFACE	2, 4, 6
G	200-1200	20" X 20"	TITUS	355RL	RETURN	WHITE	T-BAR LAYIN	1, 3, 5
H	100	34" X 8"	TITUS	355RL	WALL TRANSFER	WHITE	SURFACE	1, 3

REMARKS/ACCESSORIES

- STEEL CONSTRUCTION.
- ALUMINUM CONSTRUCTION.
- NO SCREN HOLES.
- 12" X 12" MODULE.
- PROVIDE GRILLE WITH 1" FARR 30/30 FILTERS.
- PROVIDE TITUS MODEL TRM RAPID FRAME IN AREAS OF GYP BOARD CEILING.

WALL HEATER SCHEDULE (OWNER PROVIDED)

MARK	MFG	MODEL	HEATING		VOLT / PH / HZ	ACCESSORIES
			INPUT KW	FUEL TYPE		
WH-1	MARKEL	F3425	5	ELECTRIC	208 / 1 / 60	1, 2, 3

REMARKS/ACCESSORIES

- PROVIDE WITH BUILT-IN TAMPER-PROOF THERMOSTAT.
- PROVIDE HARDWARE FOR SURFACE MOUNTING. MOUNT 12" ABOVE FINISHED FLOOR.
- PROVIDE FACTORY CIRCUIT BREAKER.

NOTES:
REFER TO SHEET M1.1 FOR HVAC LEGEND, GENERAL AND KEYED NOTES. REFER TO SHEET M2.1 FOR HVAC PLANS. REFER TO SHEET M3.1 FOR HVAC DETAILS.

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A NEW FACILITY FOR
K-5 ALE at Tillery
 ROGERS, ARKANSAS

DRAWN BY:
DCN
 CHECK BY:
NEW

ISSUE DATE
12/16/2024

PROJECT NO.
2422

REVISION DATES
 1/13/2025

HVAC SCHEDULES

S H E E T
M5.1

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LEGEND

- DIPLUX RECEPTACLE (NEMA 5-20R) OR DOUBLE DIPLUX TAMPER RESISTANT, COMMERCIAL SPECIFICATION GRADE.
DIPLUX RECEPTACLE GROUND FAULT NEMA 5-20R, TAMPER RESISTANT, COMMERCIAL SPECIFICATION GRADE.
WIRELESS INTERNET EQUIPMENT FURNISHED BY OWNER AND INSTALLED BY THE CONTRACTOR, FURNISH AND INSTALL TWO DATA CABLES.
DATA: REQUIRES 4" SQUARE OUTLET BOX, APPROPRIATE PLASTER RING, AND 1" C, STUBBED TO AN ACCESSIBLE LOCATION ABOVE A REMOVABLE CEILING TILE. MINIMUM OF ONE DATA CABLE AT EACH LOCATION SHOWN UNLESS OTHERWISE NOTED.
TELEPHONE: REQUIRES 4" SQUARE OUTLET BOX, APPROPRIATE PLASTER RING, AND 3/4" C, STUBBED TO AN ACCESSIBLE LOCATION ABOVE A REMOVABLE CEILING TILE. NUMBER DENOTES THE NUMBER OF TELEPHONE PORTS/CABLES TO BE PROVIDED. MINIMUM OF TWO CABLES AT EACH LOCATION IS REQUIRED UNLESS OTHERWISE NOTED.
FLUSH MOUNTED JUNCTION BOX. VERIFY MOUNTING HEIGHT WITH MILLWORK DETAILS AND/OR THE OWNER'S REPRESENTATIVE. AT EQUIPMENT LOCATIONS VERIFY THE EXACT LOCATION WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
FUSED/NON-FUSED DISCONNECT-FUSE ALL EQUIPMENT PER MANUFACTURER RECOMMENDATION FOR THE ACTUAL EQUIPMENT FURNISHED. MOUNT DISCONNECT FOR HVAC CONDENSER UNITS WITH TOP OF SWITCH AT 36" A.F.F.
MOTOR RATED SWITCH USED FOR EQUIPMENT DISCONNECTING MEANS. SINGLE PHASE. PROVIDE WITH THERMAL OVERLOAD SIZED PER MOTOR LOAD.
SWITCH TYPE 1221 ('3' INDICATES 3-WAY SWITCH, 'D' INDICATES DIMMER COORDINATE WITH FIXTURE/LAMP TYPE AND CIRCUIT MATTAGE.
WALL MOUNTED DUAL TECHNOLOGY MOTION SENSOR SWITCH WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE CONTACTORS TO CONTROL EXHAUST FAN WITH LIGHTS.
WALL MOUNTED PASSIVE INFRARED COMBINATION MOTION SENSOR SWITCH AND SINGLE POLE WALLBOX SLIDE DIMMER. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE CONTACTORS TO CONTROL EXHAUST FAN WITH LIGHTS.
'OS' - CEILING MOUNTED DUAL TECHNOLOGY MOTION SENSOR PROVIDE AND INSTALL THE APPROPRIATE POWER PACK. COORDINATE SWITCHING WITH ACTUAL MOTION SENSOR USED. COORDINATE LOCATION AND NUMBER WITH ACTUAL MOTION SENSOR USED. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE OCCUPANCY SENSOR WHICH IS THE CORRECT TYPE FOR THE SPACE. PROVIDE CONTACTORS TO CONTROL EXHAUST FAN WITH LIGHTS.
'OS' - WALL MOUNTED DUAL TECHNOLOGY MOTION SENSOR PROVIDE AND INSTALL THE APPROPRIATE POWER PACK. COORDINATE SWITCHING WITH ACTUAL MOTION SENSOR USED. COORDINATE LOCATION AND NUMBER WITH ACTUAL MOTION SENSOR USED. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE OCCUPANCY SENSOR WHICH IS THE CORRECT TYPE FOR THE SPACE.
EXIT LIGHT - ARROW DENOTES INCLUSION OF ARROW ON LENS. CONTRACTOR TO COORDINATE PROPER MOUNTING DETAILS.
THERMOSTAT, MOUNT AT 48" A.F.F TO TOP OF BOX (NUMBER DENOTES HVAC UNIT).
SENSOR, MOUNT AT 48" A.F.F TO TOP OF BOX (NUMBER DENOTES HVAC UNIT).
DETAIL NUMBER
SHEET NUMBER

LEGEND (CONT.)

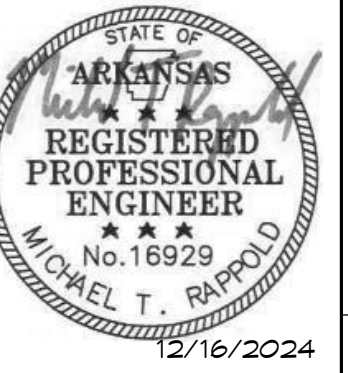
- ELECTRICAL PANEL.
BRANCH CIRCUIT HOMERUN, PANEL AND CIRCUIT NUMBER INDICATED.
FIRE ALARM CONTROL PANEL MOUNTED 50" A.F.F.
FIRE ALARM ANNUNCIATOR PANEL MOUNTED 52" A.F.F.
MANUAL PULL STATION MOUNTED MINIMUM OF 42" MAXIMUM OF 48" A.F.F.
FIRE ALARM MODULE FOR CONTROL; PROVIDE ALL LOW VOLTAGE WIRING.
PHOTOELECTRIC SMOKE DETECTOR, WALL MOUNTED
HEAT DETECTOR, WALL MOUNTED
PHOTOELECTRIC SMOKE DETECTOR, CEILING MOUNTED
HEAT DETECTOR, CEILING MOUNTED
SMOKE/CARBON MONOXIDE DETECTOR, CEILING MOUNTED.
DUCT DETECTOR-FURNISHED AND INSTALLED BY THE FIRE ALARM CONTRACTOR. COORDINATE QUANTITY AND LOCATION WITH MECHANICAL PLANS.
CEILING FIRE ALARM VISUAL STROBE LIGHT-WP DENOTES WEATHER RESISTANT. REQUIRES 4" SQUARE BOX WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING. NUMBER DENOTES CANDELA RATING.
WALL MOUNT FIRE ALARM VISUAL STROBE LIGHT-WP DENOTES WEATHER RESISTANT. REQUIRES 4" SQUARE BOX WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING. NUMBER DENOTES CANDELA RATING.
CEILING FIRE ALARM SPEAKER/STROBE LIGHT-WP DENOTES WEATHER RESISTANT. REQUIRES 4" SQUARE BOX WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING. NUMBER DENOTES CANDELA RATING; LETTER DENOTES VOICE (S) OR HORN (H)
WALL MOUNT FIRE ALARM SPEAKER/STROBE LIGHT-WP DENOTES WEATHER RESISTANT. REQUIRES 4" SQUARE BOX WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING. NUMBER DENOTES CANDELA RATING.
CAMERA JUNCTION BOX WITH 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING FOR SECURITY CAMERA. REFER TO PLANS FOR ADDITIONAL NOTES. PROVIDE ONE DATA CABLE TO EACH CAMERA LOCATION, COORDINATE EXACT LOCATION WITH OWNER.
FLUSH MOUNTED OUTLET BOX, TOP AT 48" A.F.F. FOR CARD READER. SUPPLY 3/4" CONDUIT TO AN ACCESSIBLE AREA ON THE INTERIOR, AND ONE 3/4" CONDUIT TO DOOR FRAME HEADER. FURNISH 120 VOLTS FROM THE NEAREST RECEPTACLE CIRCUIT. VERIFY WITH SECURITY CONTRACTOR.
TIME CLOCK; INTERMATIC #ET2150 FOR LIGHTING CONTROL APPLICATIONS. INTERMATIC #T2005 FOR CIRCULATION PUMPS.
SUBSCRIPTS:
C = COORDINATE LOCATION WITH MILLWORK-MOUNTING HEIGHTS VARY. REFER TO THE ARCHITECTURAL MILLWORK DRAWINGS.
W = WALL MOUNTED @ 48" A.F.F.-OR AS SHOWN.
GFI = GROUND FAULT CIRCUIT INTERRUPTER.
WP = WEATHER RESISTANT RECEPTACLES ARE "GFI", WITH METAL WEATHER RESISTANT "WHILE-IN-USE" COVERS.
MW = MICROWAVE OVEN.
EM = FIXTURE CONTAINS EMERGENCY BATTERY PACK.
NL = UNSWITCHED EMERGENCY FIXTURE.
H = MOUNT HORIZONTALLY IN MILLWORK.
EG = ELECTRICAL CONTRACTOR
AFF = ABOVE FINISHED FLOOR
AFG = ABOVE FINISHED GRADE
EWC = ELECTRIC WATER COOLER
EWH = ELECTRIC WATER HEATER
NTS = NOT TO SCALE

GENERAL ELECTRICAL NOTES-ALL SHEETS
THESE NOTES ARE ONLY A SUPPLEMENT TO THE SPECIFICATIONS

- 1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR A COMPLETE WORKING INSTALLATION.
2. THIS CONTRACTOR IS TO COMPLY WITH THE STATE OF ARKANSAS ADOPTED ADA ACCESSIBLE GUIDELINES IN REGARD TO ACCESSIBLE FEATURES.
3. AT ALL MILLWORK LOCATIONS COORDINATE THE ELECTRICAL INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
4. PROVIDE FIRE RATED CAULKING WHERE CONDUIT OR OTHER ELECTRICAL ITEMS PASS THROUGH FIRE-RATED WALLS, CEILINGS AND FLOORS.
5. INSTALL ALL CONDUIT STRAIGHT AND PARALLEL WITH THE BUILDING LINES. ALL CONDUIT IS CONCEALED IN PUBLIC PLACES.
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT AND FEE COSTS AND SHALL INCLUDE THESE COSTS IN THE BID PRICE FOR THIS PROJECT.
7. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AND ORDINANCES. IF A CONFLICT IS FOUND BETWEEN APPLICABLE CODES, THE MORE STRINGENT SHALL APPLY. THE CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL APPLICABLE MUNICIPAL CODES AND ORDINANCES.
8. THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH THE DRAWINGS, SPECIFICATION BOOK, THE BUILDING SITE AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD A COMPLETE AND THOROUGH EXAMINATION BEEN MADE.
9. DO NOT SCALE DIRECTLY FROM THE ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION.
10. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERECTED. THIS CONTRACTOR GUARANTEE SHALL EXIST FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL OWNER ACCEPTANCE OF THE WORK AND SHALL APPLY TO ALL DEFECTS IN MATERIALS AND/OR WORKMANSHIP OF ANY KIND.
11. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OR NATURE OF THE WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES WILL BE MADE WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE OWNER.
12. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES TO INSURE THAT ALL CIRCUITS AND DEVICES ARE OF A PROPER SIZE FOR ACTUAL EQUIPMENT FURNISHED. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT WHICH CAUSES CHANGES TO ANY SYSTEM AS DESIGNED ON THESE DRAWINGS. FAILURE ON THE PART OF THE CONTRACTOR TO NOTIFY THE ENGINEER OR ARCHITECT OF SUCH CONFLICTS PLACES THE SUBSEQUENT CHANGES UPON THE CONTRACTOR.
13. WHEN INSTALLING POLE BASES OR UNDERGROUND UTILITIES, FIELD VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES. EXACT LOCATION OF POLE BASES AND CONDUIT TO BE DETERMINED IN THE FIELD.
14. THE ELECTRICAL CONTRACTOR IS TO PROVIDE, AT YET TO BE DECIDED LOCATIONS, TEN (10) CONDUIT STUB-UPS, WHICH ARE TO INCLUDE 4" OUTLET BOXES, PLASTER RINGS, COVER PLATES, AND CONDUIT TO ABOVE THE CEILING, FIVE ONE GANG AND FIVE TWO GANG. IN ADDITION, PROVIDE TEN (10) SINGLE GANG STUB-UPS WHICH ARE TO INCLUDE 4" OUTLET BOXES, PLASTER RINGS, COVER PLATES, INCLUDING ONE RECEPTACLE OR SWITCH WITH 50 FEET OF CIRCUIT WIRING PER SINGLE GANG STUB-UP. COMBINED TOTAL NUMBER OF STUB-UPS REQUIRED IS TWENTY (20).
15. ALLOW FOR THE ADDITION OF 2 (TWO) NEW EXIT LIGHTS WITH WIRING TO UNSWITCHED LIGHTING CIRCUIT.
16. ELECTRICAL CONTRACTOR AND MASON TO COORDINATE LOCATION OF ALL WALL INSTALLED DEVICES WITH ARCHITECTURAL FINISHES, SUCH AS ACOUSTIC WALL PANELS, WALL FURR CUTS, DOOR LOCATIONS, SIGNAGE, ETC.
17. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING SYSTEMS:
A. POWER AND LIGHTING:
1. ALL DEVICE PLATES ARE STAINLESS STEEL. COORDINATE COLOR OF DEVICES WITH THE ARCHITECT.
2. ALL 20A 120V AND 250V NON-LOCKING TYPE RECEPTACLES, UNLESS OTHERWISE NOTED, SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.
3. WHERE DEVICES ARE SHOWN NEXT TO EACH OTHER, THEY ARE INTENDED TO BE GANGED. FIELD VERIFY ACTUAL SPACE AVAILABLE AND NOTIFY THE ARCHITECT WHERE THERE ARE SPACE CONFLICTS.
4. LOW VOLTAGE WIRING IS TO BE ENGAGED IN CONDUIT IN AREAS WITH NO CEILING.
5. RECEPTACLES FOR EQUIPMENT SUCH AS ELECTRIC WATER COOLERS SHALL BE LOCATED IN THE WALL AT A LOCATION WHICH IS CONCEALED BY THE EQUIPMENT CABINET.
6. ALL EMPTY CONDUITS ARE TO CONTAIN A NYLON FULL STRING. EMPTY CONDUITS 2" AND LARGER ARE TO BE SWABBED OUT AND LEFT WITH A NYLON FULL ROPE FOR THE USE OF THE OWNER.
7. COVER PLATES FOR EXTERIOR RECEPTACLES ARE TO BE METAL, WEATHER PROOF WHILE IN USE.
8. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DRIVER AND LAMP COMBINATIONS THAT WILL PROVIDE THE OWNER WITH A FIVE YEAR WARRANTY ON THE DRIVER.
9. COORDINATE WITH THE GENERAL CONTRACTOR AND THE INSULATION CONTRACTOR TO HOLD THE BATT INSULATION AWAY FROM ALL LAY-IN FIXTURES. CLEARANCE SHOULD BE 3" ON ALL SIDES, AND TOTALLY CLEAR ON THE TOP.
10. ROOM NUMBERS USED IN THE PANEL SCHEDULES ARE TO REFLECT ROOM NUMBERS BY THE OWNER. ARCHITECT WILL PROVIDE CROSS OVER LIST DURING THE PROJECT.
11. OCCUPANCY SENSORS ARE TO BE LAID OUT BY THE LIGHTING REPRESENTATIVE FURNISHING THE EQUIPMENT HSA WILL PROVIDE AUTO CAD DRAWINGS AS NECESSARY. ELECTRICAL CONTRACTOR RESPONSIBLE FOR LOCATION DETAILS AND MOUNTING. SENSORS SHOWN ARE FOR REFERENCE ONLY.
12. FURNISH 2-4" CONDUITS SLEEVES THROUGH FIRE WALLS UNLESS OTHERWISE NOTED. SEAL PER RATING OF THE WALL.
13. WHERE INDIRECT (SUSPENDED) LIGHTING IS USED, THE ELECTRICAL CONTRACTOR SHALL CONTRACT WITH THE CEILING CONTRACTOR TO PROVIDE THE NECESSARY TIES TO THE STRUCTURE ABOVE AT EACH POINT OF ATTACHMENT OF THE FIXTURE HANGERS.
14. CLASSROOM LIGHTS ARE CONTROLLED BY OCCUPANCY SENSORS, THEY ARE SWITCHED WITH THE ROOM AT THE TEACHING WALL INDEPENDENT OF THE REST OF THE LIGHTS.
15. IT SHALL BE ACCEPTABLE TO USE LUTRON VIVE WIRELESS LIGHTING CONTROLS IF THEY ARE MORE COST EFFECTIVE THAN HARDWIRED LIGHTING CONTROLS. IF WIRELESS LIGHTING CONTROLS ARE USED THE FOLLOWING SHALL APPLY. ALL ROOMS ARE TO BE CONFIGURED AS "STAND ALONE" TYPE ROOMS UNLESS OTHERWISE NOTED. A FULL BUILDING WIRELESS LIGHTING CONTROL SYSTEM THAT CONNECTS AND MONITORS ALL STAND ALONE ROOMS IS NOT REQUIRED. MANUFACTURER IS TO BE LUTRON VIVE PROVIDE MINIMUM 4 HOURS OF ON SITE TRAINING. TRAINING IS TO BE RECORDED AND GIVEN TO THE OWNER.
16. PROVIDE PRICING FOR DEVICES LOCATED AT EXISTING CONCRETE BLOCK WALLS AS FOLLOWS: UNLESS OTHERWISE NOTED CONDUIT, BOXES, AND WIRING FOR ALL DEVICES ARE TO BE CONCEALED IN EXISTING WALLS AND ABOVE CEILINGS. INSTALL MC CABLE AND FLEXIBLE CONDUIT DOWN EXISTING CONCRETE BLOCK WALLS TO DEVICE LOCATIONS AS REQUIRED. INSTALL CUT-IN BOXES AT THESE LOCATIONS.
17. WIRE SIZES:
WIRE SIZE 120V
A. #12 LESS THAN 75 FEET
B. #10 BETWEEN 75-150 FEET
C. #8 BETWEEN 150-250 FEET
D. #6 BETWEEN 250-375 FEET
B. FIRE ALARM
1. ALL FIRE ALARM OUTLET BOXES ARE TO BE PAINTED RED.
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING BREAKER LOCK FOR LOCKING FIRE ALARM PANEL BREAKER IN THE "ON" POSITION.
3. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING A PLAN BOX NEXT TO THE FIRE ALARM CONTROL PANEL. COORDINATE EXACT SIZE AND LOCATION OF BOX WITH THE CITY FIRE MARSHAL PRIOR TO INSTALLATION.
4. INSTALL FIRE ALARM SYSTEM PER N.F.P.A. AND ALL STATE AND LOCAL ORDINANCES.
5. COORDINATE THE OVERALL FIRE ALARM SYSTEM WITH THE FIRE MARSHAL. FURNISHING ALL DEVICES AND SYSTEMS NECESSARY FOR A COMPLETE ACCEPTABLE SYSTEM. NO EXTRA CHARGES WILL BE ALLOWED. OUTSIDE OF THE CONTRACT PRICE. THE FIRE ALARM CONTRACTOR IS TO SUBMIT PLANS TO THE FIRE MARSHAL FOR FINAL APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
6. DUCT DETECTORS ARE SUPPLIED AND INSTALLED BY THE FIRE ALARM CONTRACTOR. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO FURNISH ALL WIRING NECESSARY TO CONNECT THESE DEVICES TO THE FIRE ALARM SYSTEM. PROVIDE WITH REMOTE INDICATOR OR SEPARATELY ZONED. COORDINATE QUANTITY AND LOCATION WITH THE MECHANICAL DRAWINGS.

GENERAL ELECTRICAL NOTES
(CONTINUED.)

- C. CONDUIT AND CABLE SYSTEM FOR DATA AND TELEPHONE WIRING.
1. CONDUIT FOR DATA AND TELEPHONE SYSTEM, TO INCLUDE SLEEVES IN FIRE WALLS.
2. DATA OUTLETS IN THE FLOOR REQUIRE 1" CONDUIT FROM EACH ONE TO A POINT ABOVE AN ACCESSIBLE CEILING. NO DAISY CHAINING OF DATA OUTLETS/CONDUITS IS ALLOWED.
3. CABLE IS NOT TO BE INSTALLED EXPOSED. VERIFY WITH MECHANICAL PLANS FOR PLENUM SPACES CABLE IN THESE AREAS IS PLENUM RATED.
4. ELECTRICAL CONTRACTOR IS TO PROVIDE, INSTALL AND TERMINATE ALL DATA/TELEPHONE WIRING. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
5. PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR UNUSED DATA OUTLETS.
6. CONTRACTOR TO INSTALL OWNER PROVIDED WIFI DEVICES.
7. CONTRACTOR TO INSTALL OWNER PROVIDED WALL PHONE BRACKETS AND PHONES.
D. UNDERGROUND CONDUITS AND SLEEVES AS NECESSARY FOR DISTRIBUTION.
1. DO NOT ROUTE GROUPS OF CONDUITS OR SLEEVES ABOVE FOOTINGS UNLESS NOTED TO DO SO. IF CONFLICT OCCURS, CONSULT ARCHITECT AND ENGINEER.
2. DO NOT ROUTE CONDUIT OR SLEEVES BELOW BEARING WALLS WHEN RUNNING PARALLEL WITH WALLS.
3. LIMIT WIDTH OF CONDUIT AND SLEEVES NOT TO EXCEED 3'-0" IN WIDTH AS IT PASSES UNDER WALL FOOTING. ALIGN ITEMS PERPENDICULAR TO THE FOOTINGS AS IT PASSES BELOW THE FOOTING.
4. PROVIDE A MINIMUM SPACING OF 2'-0" BETWEEN CONDUIT GROUPS AS THEY PASS UNDER FOOTINGS.
5. DO NOT ROUTE CONDUITS OR SLEEVES UNDER COLUMN FOOTINGS OR PAD FOOTINGS.
E. GROUNDING SYSTEM
1. ALL CONDUITS ARE TO CONTAIN A GREEN GROUNDING CONDUCTOR, SIZED PER THE N.E.C.
F. EQUIPMENT REQUIREMENTS:
1. VERIFY EXACT FUSE SIZE AND EQUIPMENT REQUIREMENTS WITH THE ACTUAL EQUIPMENT FURNISHED BY THE OTHER CONTRACTORS.
2. ALL HOT WATER CIRCULATION PUMPS ARE TO BE CONTROLLED VIA 7 DAY TIME CLOCKS PROVIDED BY THE MECHANICAL CONTRACTOR.
3. FINAL EQUIPMENT CONNECTIONS: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS REQUIRED TO MAKE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT FURNISHED ON THIS PROJECT. VERIFY ALL REQUIREMENTS, CONDUCTOR SIZES, OVERCURRENT PROTECTION, PHASES, VOLTAGES, MOTOR ROTATION, ETC., WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER. FURNISH HARD WIRING FOR ALL WATER HEATERS AND CIRCULATION PUMPS.
4. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL CONTACTORS, MAGNETIC STARTERS, AND MISCELLANEOUS WIRING NECESSARY TO CONTROL EXHAUST FANS AND OTHER AUTOMATICALLY OPERATED EQUIPMENT. THE CONTROLS CONTRACTOR IS TO FURNISH ONE RELAY PER ITEM AS COMPATIBLE WITH THEIR CONTROL SYSTEM.
6. HVAC CONTROL:
1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FROM EACH HVAC UNIT TO ITS RESPECTIVE THERMOSTAT, HUMIDISTAT, AND/OR SENSOR, AS REQUIRED. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING NECESSARY FOR LINE VOLTAGE CONTROL SYSTEMS.
3. ALL LOW VOLTAGE CONTROL WIRING SHALL BE ENCLOSED IN CONDUIT IN SPACES WITH NO CEILING.
4. COORDINATE ALL HVAC WIRING WITH THE MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR.
5. THE ELECTRICAL CONTRACTOR IS TO PROVIDE A MAGNETIC STARTER FOR EACH EXHAUST FAN. THIS STARTER IS CONTROLLED BY THE LIGHTING/MOTION SENSOR SYSTEM.
6. THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL ALL LINE VOLTAGE THERMOSTATS.
H. TEACHING WALL/DESK SETUP
1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL BOXES CONDUIT, POWER AND NETWORK CABLING FOR TEACHING WALL AND TEACHING DESK SETUPS.
2. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR RELOCATING ALL TEACHING WALL LOW VOLTAGE WIRING, BOXES, AND FACE PLATES.
3. COORDINATE ALL REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.
I. SECURITY CAMERAS
1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES AND CONDUIT FOR SECURITY CAMERAS SHOWN ON THE PLANS.
2. EACH CAMERA LOCATION REQUIRES ONE DATA CABLE, AN OUTLET BOX AND 3/4" CONDUIT ABOVE AN ACCESSIBLE CEILING.
3. THE OWNER VENDOR CONTRACTOR (DIGI SECURITY) SHALL PROVIDE THE SECURITY CAMERA SYSTEM AND ALL OF ITS COMPONENTS.
J. ACCESS CONTROL:
1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL BOXES AND CONDUIT FOR THE CARD READER STUB UPS. CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING 120 VOLT POWER TO EACH ACCESS CONTROL CABINET LOCATED IN THE DATA ROOM AND AT EACH DOOR. CONDUIT AT DOORS WITH LOCKS IS TO BE INSTALLED CONCEALED IN THE WALL.
2. ACCESS CONTROL SYSTEM IS PROVIDED BY THE OWNER VENDOR CONTRACTOR (DIGI SECURITY) COORDINATE ALL REQUIREMENTS PRIOR TO INSTALLATION.



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A NEW FACILITY FOR
K-5 ALE at Tillery
ROGERS, ARKANSAS

DRAWN BY: HA
CHECK BY: MTR
ISSUE DATE: 12/16/2024

PROJECT NO: 2422

REVISION DATES: 1/13/2025

ELECTRICAL LEGEND, NOTES & DETAILS

SHEET

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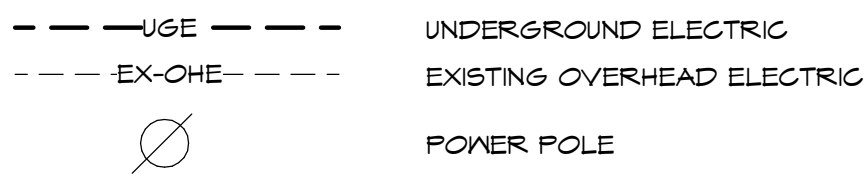
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ELECTRICAL SITE PLAN
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GENERAL ELECTRICAL SITE NOTES (THIS SHEET ONLY)

1. PROVIDE AND INSTALL SERVICE CONDUITS PER AEP SPECIFICATIONS, CONDUITS SHALL BE 3-3" GRAY SCHEDULE 40 UL PVC CONDUITS, AND HAVE A MINIMUM OF 48" OF FILL ON TOP OF CONDUITS. ENCASE CONDUITS IN 4" COVER OF CONCRETE (SLURRY FILL) FROM THE POWER POLE TO THE SERVICE DISCONNECTS.
2. PROVIDE 36" LONG PVC SNEEPS FOR SERVICE CONDUITS, PROVIDE ALL TRENCHING, BACKFILLING, SAWCUTTING AND PATCHING OF HARD SURFACES, ECT FOR CONDUITS.
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF INSTALLATION AND CONNECTING THE ELECTRICAL SERVICE CONDUITS. COORDINATE CONNECTION TO EXISTING OVERHEAD LINES WITH AEP.

ELECTRICAL SITE PLAN LEGEND

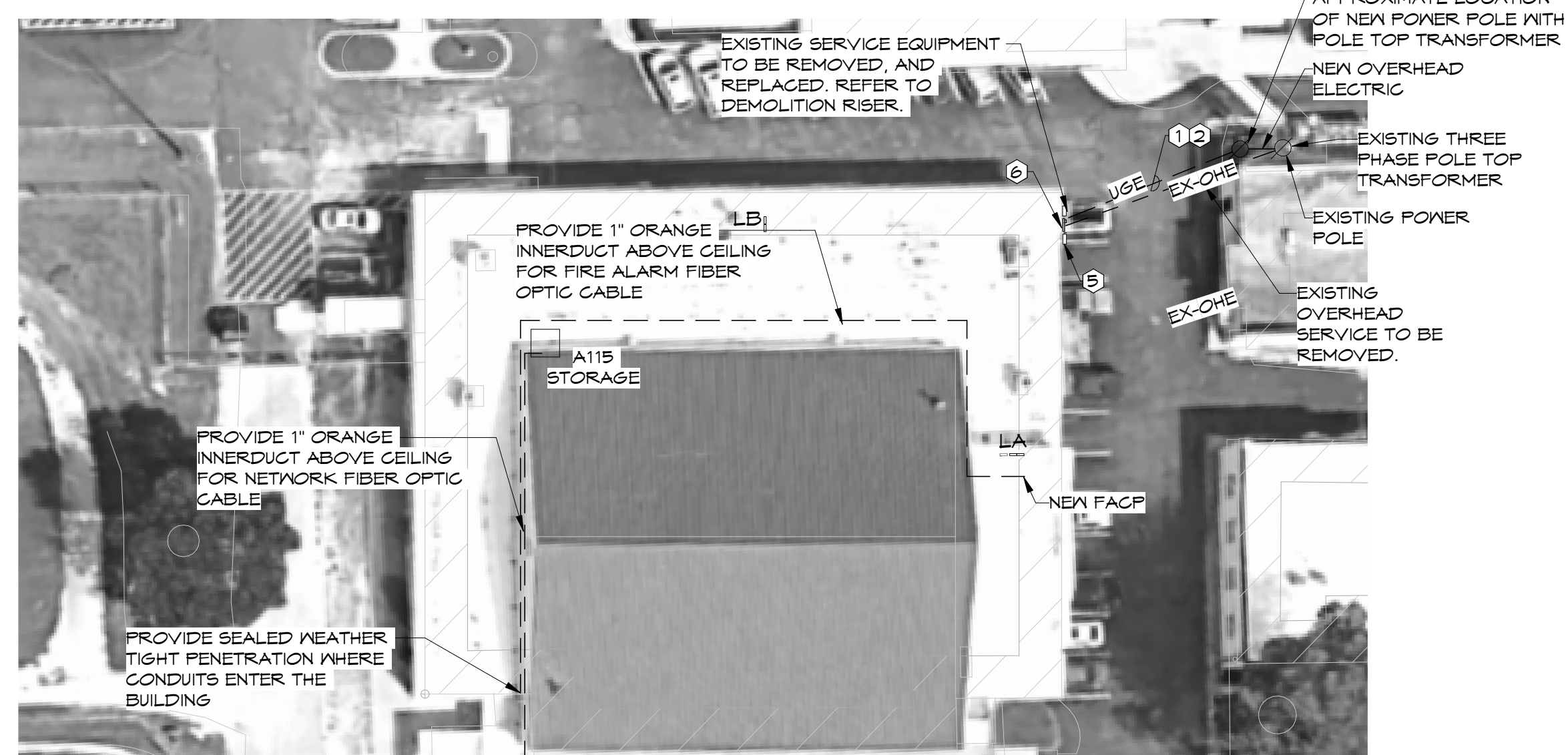


UTILITY CONTACTS:

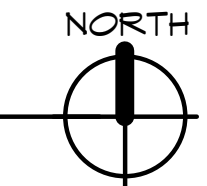
AEP/SWEP/CO CHRIS ANDREOLLI (479) 973-2434

KEYED ELECTRICAL SITE NOTES (THIS SHEET ONLY)

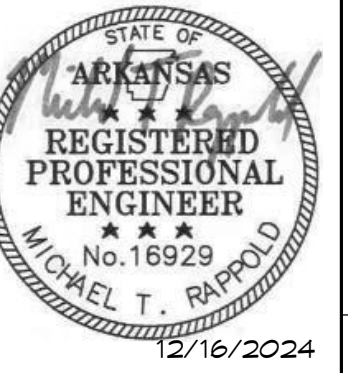
- ① ELECTRICAL SERVICE, REFER TO GENERAL NOTE 1, AND 2 FOR INSTALLATION. REFER TO RISER DIAGRAM FOR CONDUIT AND WIRE SIZES.
- ② IDENTIFY OUTDOOR UNDERGROUND LINES WITH CONTINUOUS STRIP OF PLASTIC UTILITY MARKER. TAPE SHOULD STATE AT REGULAR INTERVALS: "CAUTION (STATE UTILITY) PIPE BELOW". INSTALL TAPE ONE FOOT DIRECTLY ABOVE PIPE BEFORE BACKFILLING TO GRADE.
- ③ PROVIDE 2-2" CONDUITS FOR FIBER OPTIC CABLE & FIRE ALARM CONNECTION, INSTALL ON TOP OF EXISTING CANOPY. PROVIDE WEATHER RESISTANT PULL BOXES AS REQUIRED. COORDINATE WITH FIBER INSTALLER.
- ④ PROVIDE AND INSTALL FIBER OPTIC CABLE FROM MDF RACK TO NEW IDF RACK IN STORAGE A115. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ⑤ NEW EXTERIOR DISCONNECTS REFER TO ELECTRICAL RISER FOR REQUIREMENTS.
- ⑥ NEW UTILITY CO METER & CT CAN, COORDINATE INSTALLATION AND REQUIREMENTS WITH AEP.
- ⑦ PROVIDE AND INSTALL FIBER OPTIC CABLE FROM NEW FACP IN GYM TO EXISTING FACP SCHOOL BUILDING. REFER TO STRUCTURED CABLING SPECIFICATIONS FOR FIBER OPTIC CABLING TYPE.



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



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ELECTRICAL DEMO PLAN
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DEMOLITION LEGEND

- ⊖ ELECTRICAL DEVICES WITH DASHED LINES ARE TO BE DEMOLISHED; DISCONNECT REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT. MAINTAIN CONTINUITY TO REMAINING DEVICES ON THAT CIRCUIT. FIELD VERIFY EXISTING CONDITIONS.
- ⊖ GRAYED OUT ELECTRICAL DEVICES ARE TO BE REMOVED AND REPLACED WITH NEW DEVICES

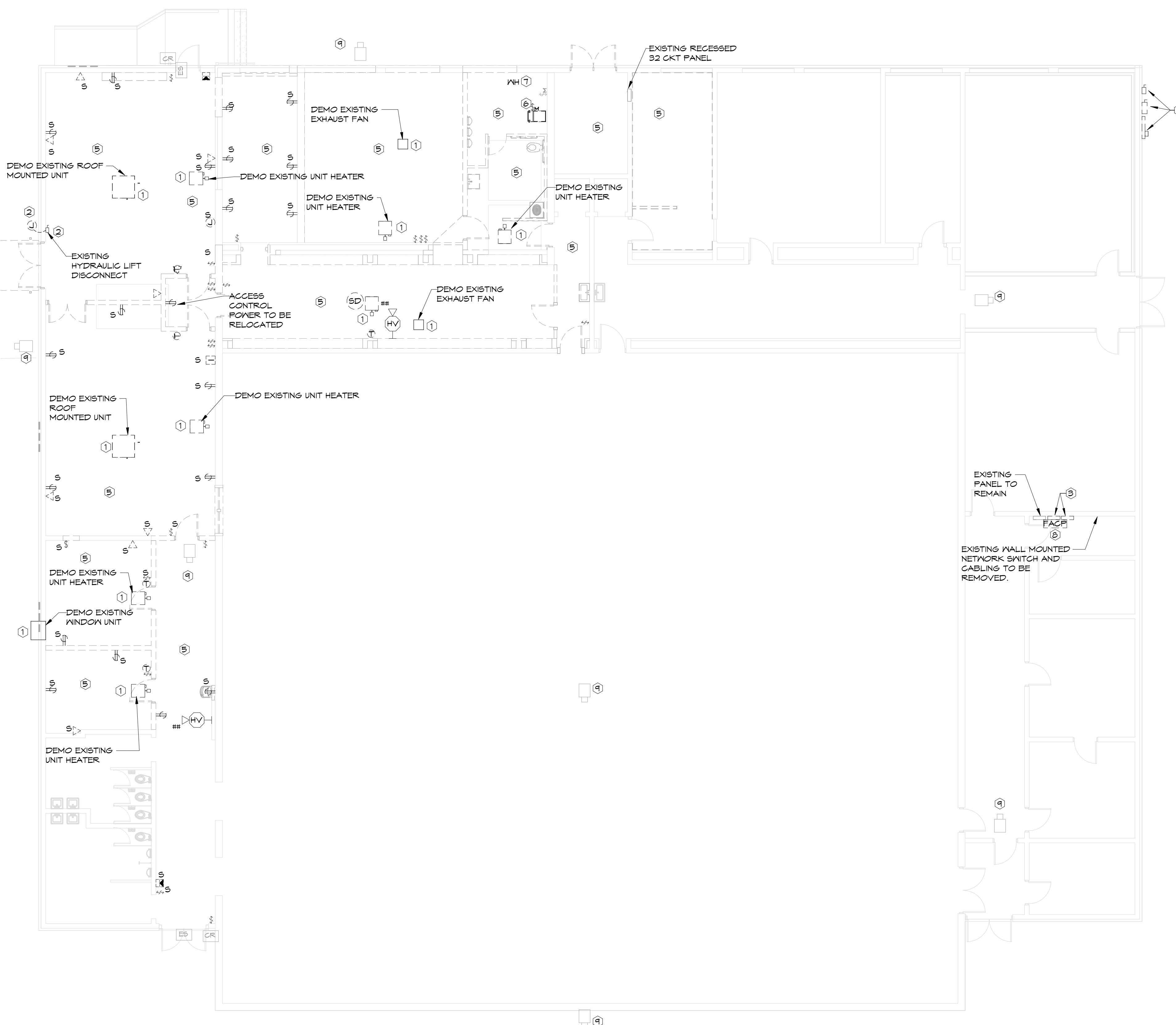
ELECTRICAL DEMOLITION GENERAL NOTES

- FOR ALL DEVICES IN WALLS/MILLYWORK BEING DEMOLISHED; DISCONNECT REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT. MAINTAIN CONTINUITY TO REMAINING DEVICES ON THAT CIRCUIT.
- REMOVE ALL DEVICES IN CEILINGS THAT ARE TO BE DEMOLISHED; DISCONNECT REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT. MAINTAIN CONTINUITY TO REMAINING DEVICES ON THAT CIRCUIT.
- ALL DEVICES AND COVER PLATES SHALL BE REMOVED THROUGHOUT THE SPACE BEING REMODELED. NEW DEVICES AND COVER PLATES SHALL BE INSTALLED.
- ALL EXISTING SURFACE MOUNTED RACEWAY AND DEVICES ARE TO BE REMOVED IN ALL SPACES BEING REMODELED.
- ALL EXISTING LIGHT FIXTURES AND LIGHTING CONTROL DEVICES IN RENOVATED AREA ARE TO BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED.
- FOR ALL UNUSED CIRCUITS, REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
- REFER TO ARCHITECTURAL DRAWINGS FOR AREAS TO BE DEMOLISHED
- GRAYED OUT DEVICES SHOWN EXISTING TO REMAIN DEVICE LOCATIONS. ALL EXISTING DEVICES ARE TO BE REPLACED.
- DEVICES SHOWN AS BOLD OR DASHED ARE TO BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED.
- FIELD VERIFY ALL EXISTING CONDITIONS
- REMOVE POWER TO ALL EXISTING EQUIPMENT TO BE DEMOLISHED, COORDINATE WITH ALL TRADES.
- FOR ALL EXISTING WIFI DEVICES REMOVE AND DISPOSE OF PER THE OWNERS DIRECTION. ALL WIFI DEVICES ARE TO BE REPLACED WITH NEW.
- REMOVE ALL EXISTING DATA CABLING THROUGHOUT THE ENTIRE BUILDING. COORDINATE WITH THE OWNER. ALL DATA CABLING THROUGHOUT THE BUILDING IS TO BE REPLACED.
- DISCONNECT AND REMOVE ALL FIRE ALARM DEVICES AND PANEL THROUGH ENTIRE BUILDING PROVIDE BLANK COVER FOR UNUSED JUNCTION BOXES IN CONCRETE AND MASONRY WALLS.
- DEMO EXISTING INTERCOM CALL STATIONS, AND SPEAKERS IN ROOMS BEING REMODELED. AT EVERY INTERCOM CALL STATION THE BOX IS TO BE REMOVED AND MASONRY WALL IS TO BE PATCHED TO COVER OPENING.

KEYED ELECTRICAL DEMOLITION NOTES

- REMOVE POWER TO ALL EXISTING EQUIPMENT TO BE DEMOLISHED, COORDINATE WITH ALL TRADES.
- EXISTING HYDRAULIC LIFT TP BE REMOVED, DISCONNECT AND REMOVE ALL CONDUIT WIRE AND ASSOCIATED CONTROLS BACK TO SOURCE LABEL BREAKER AS SPARE.
- EXISTING FUSED AND BREAKER PANELS ARE TO BE REMOVED, ALL EXISTING CIRCUITS THAT ARE TO REMAIN WILL BE FED FROM A NEW PANEL INSTALLED IN PLACE. PROVIDE NEW GROUND WIRE OR BRANCH CIRCUIT FEEDER AS REQUIRED, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TRACING OUT ALL EXISTING CIRCUITS BEING REWORKED. PROVIDE LABELS IN PANEL FOR ALL EXISTING CIRCUITS. FIELD VERIFY EXISTING CONDITIONS. EXTEND ALL CONDUCTORS AND CONDUIT AS NECESSARY.
- EXISTING METER AND SERVICE DISCONNECTS TO BE REMOVED AND REPLACED REFER TO ELECTRICAL RISERS AND POWER PLANS FOR LOCATION AND ADDITIONAL INFORMATION.
- REMOVE EXISTING LIGHTS AND CONTROLS IN SPACE.
- EXISTING FURNACE TO BE RELOCATED, SPLICE AND EXTEND EXISTING CIRCUIT AS REQUIRED.
- EXISTING WATER HEATER TO BE DISCONNECTED AND RECONNECTED, COORDINATE WITH PLUMBING CONTRACTOR.
- EXISTING FIRE ALARM CONTROL PANEL TO BE REMOVED.
- PROVIDE NEW DATA CABLE TO EXISTING CAMERA.

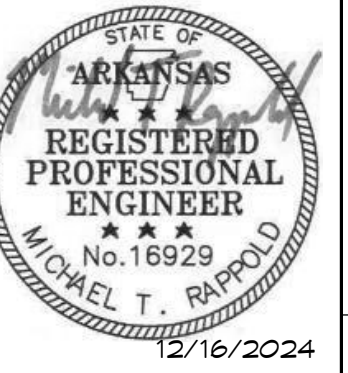
SUBSCRIPTS:
ER= EXISTING TO REMAIN
RE= REMOVE EXISTING
RRE= REMOVE AND RELOCATE EXISTING
S= SURFACE MOUNT



1 ELECTRICAL DEMO PLAN

1/8" = 1'-0"



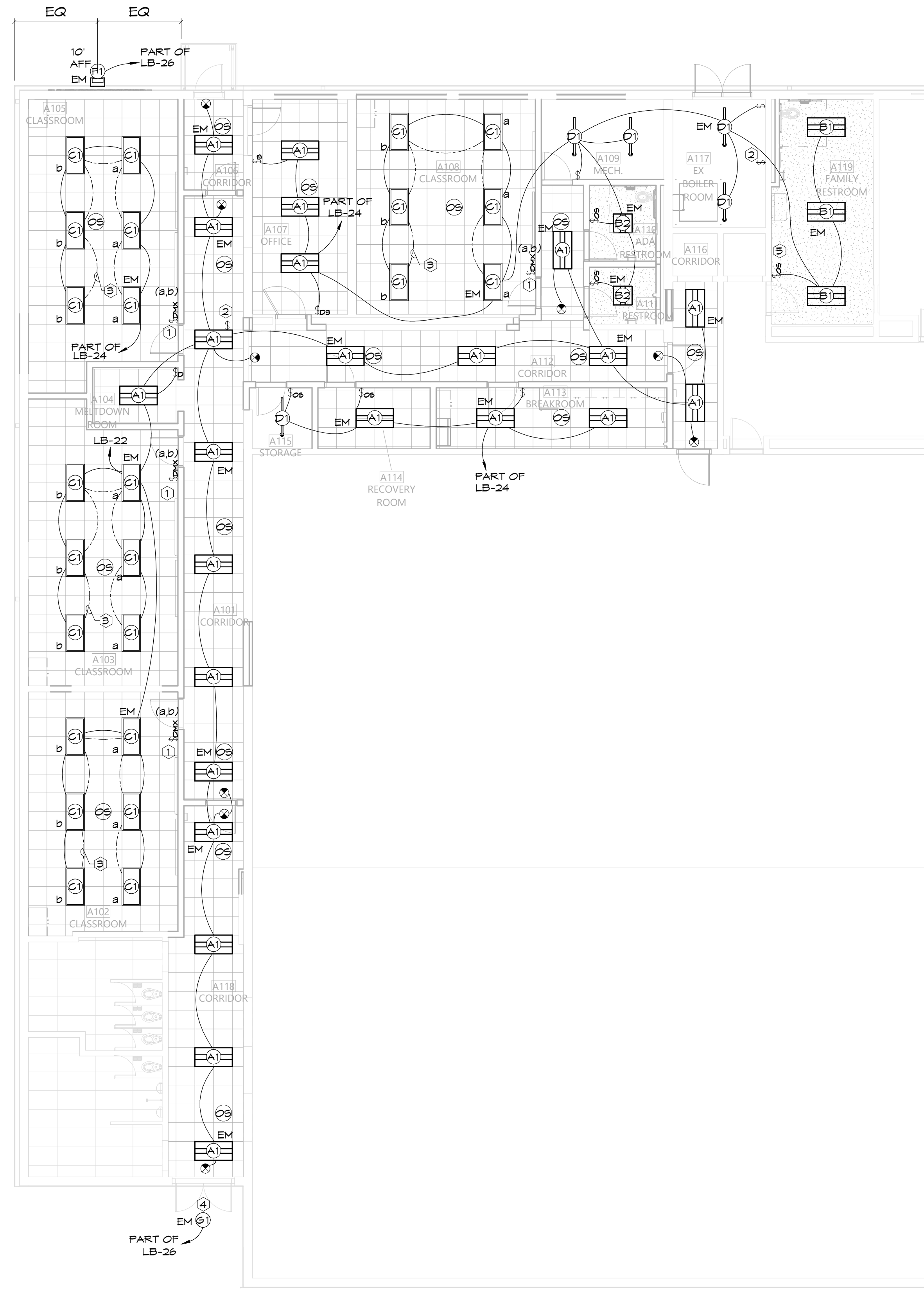


GENERAL LIGHTING NOTES

- ZONES FOR DMX CONTROLLED LIGHTING NOTED BY LOWER CASE LETTERS(a,b). PROVIDE ALL PROGRAMMING AND SET UP OF CONTROLLER AND ZONES. ZONES LISTED BELOW.
LIGHTING CONTROL ZONES - CONTROLLER ROOM
 - ROOM A102 CLASSROOM
 - TEACHING WALL(3 FIXTURES)
 - CLASSROOM LIGHTS(3 FIXTURES)
 - ROOM A103 CLASSROOM
 - TEACHING WALL(3 FIXTURES)
 - CLASSROOM LIGHTS(3 FIXTURES)
 - ROOM A105 CLASSROOM
 - TEACHING WALL(3 FIXTURES)
 - CLASSROOM LIGHTS(3 FIXTURES)
 - ROOM A108 CLASSROOM
 - TEACHING WALL(3 FIXTURES)
 - CLASSROOM LIGHTS(3 FIXTURES)

KEYED LIGHTING NOTES

- PROVIDE AND INSTALL DMX CONTROLLER MODEL "STICK-DE3" OR EQUAL, PROVIDE TWO GANG, DEEP BOX FOR MOUNTING, MOUNT POWER SUPPLY IN BACK BOX. PROVIDE ALL LOW VOLTAGE CABLING AND PROGRAMMING REQUIRED. ELECTRICAL CONTRACTOR TO PROVIDE OWNER TRAINING FOR CONTROLLER OPERATION.
- SWITCH FOR ROOMS 101, 106, 112, AND 118 IS LOCATED IN ROOM A117 EX BOILER. PROVIDE A LABEL FOR SWITCH WITH THE CORRESPONDING ROOM NUMBERS.
- 3/4" CONDUIT AND DMX CABLE BETWEEN FIXTURES, DAISY CHAIN FIXTURES TOGETHER.
- RUN CONDUIT ON TOP OF EXISTING CANOPY. CONDUIT PENETRATING THE ROOF IS TO BE WATER TIGHT.
- INSTALL NEW SWITCH IN EXISTING JUNCTION BOX.



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



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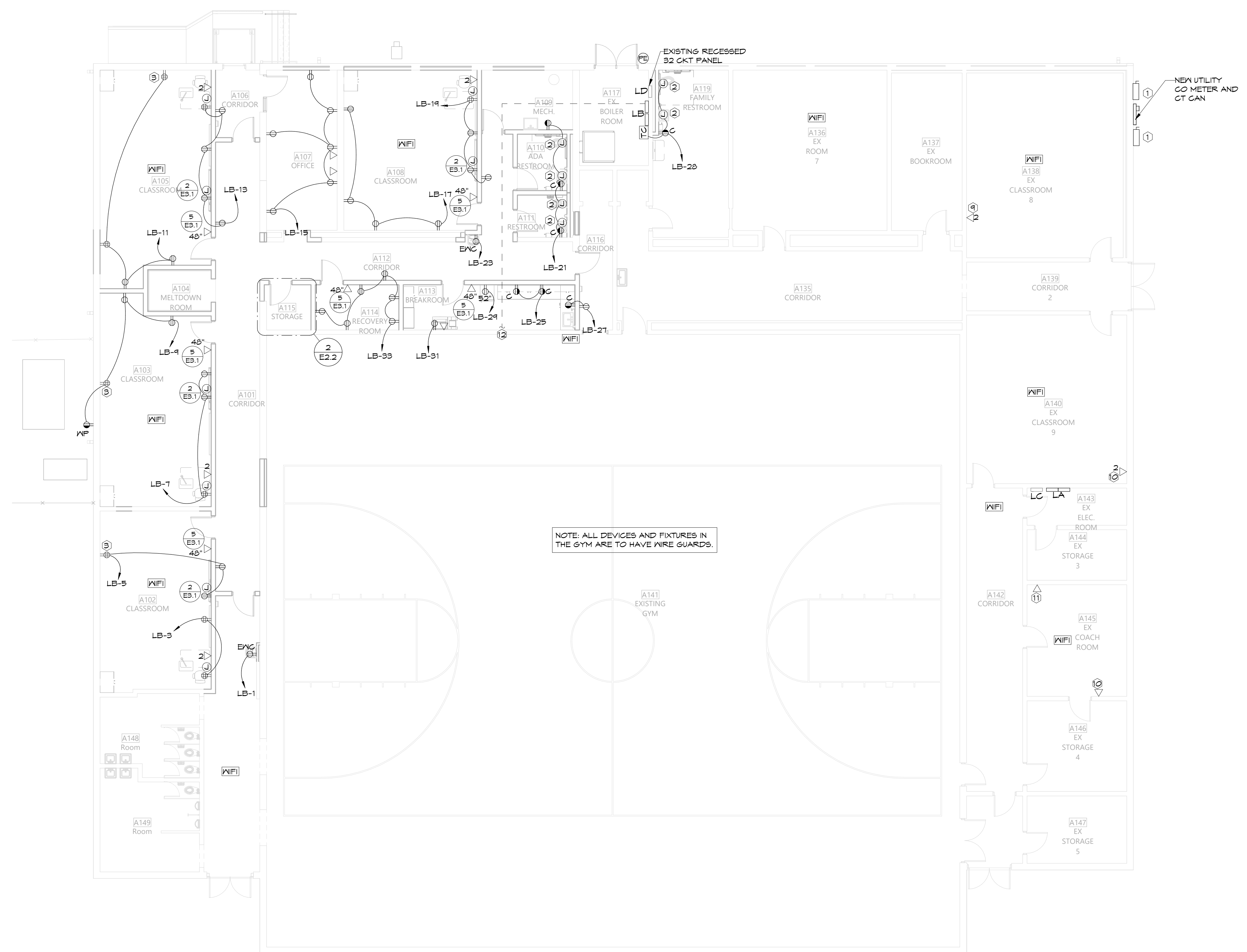
ELECTRICAL LIGHTING
PLAN

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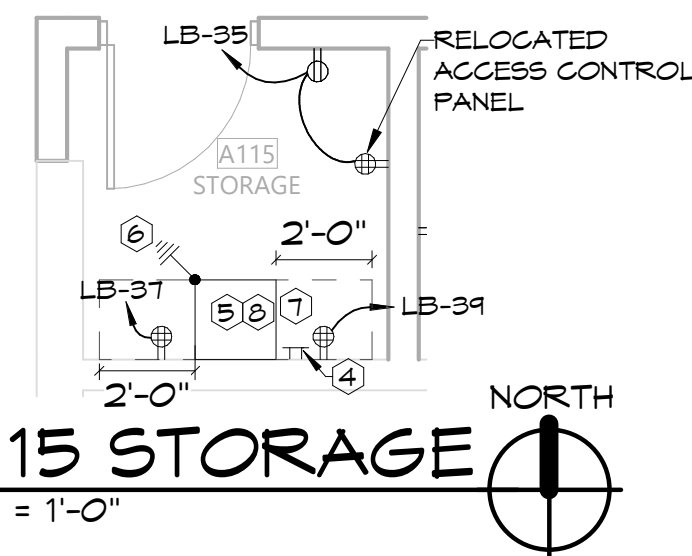
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NOTE: ALL DEVICES AND FIXTURES IN THE GYM ARE TO HAVE WIRE GUARDS.

KEYED POWER NOTES

- ① EXTERIOR MAIN DISCONNECTS REFER TO ELECTRICAL RISER FOR REQUIREMENTS.
- ② JUNCTION BOXES FOR SENSOR OPERATED FIXTURES. COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS AND TRANSFORMER LOCATION. FOR SINKS, ANY EXPOSED WIRING SHALL BE WIRE TIED NEATLY AND ALL EFFORT SHALL BE MADE TO CONCEAL UNDER SINK.
- ③ DEVICE TO BE INSTALLED AT EXISTING VENT LOCATION. INSTALL CIRCUITRY CONCEALED BELOW FLOOR, OR IN WALL. DEVICE IS TO BE FLUSH MOUNTED IN WALL.
- ④ PROVIDE 1/4" X 20" X 4" GROUNDING BAR. INSTALL A #10 COPPER GROUND WIRE FROM GROUND BAR TO ELECTRICAL SERVICE GROUNDING ELECTRODE. LEAVE 5' TAIL.
- ⑤ EQUIPMENT RACK. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. QUANTITY AS REQUIRED.
- ⑥ CONNECT TO THE ELECTRICAL SERVICE GROUNDING ELECTRODE VIA A #6 COPPER GROUND CONDUCTOR.
- ⑦ PROVIDE LADDER CABLE TRAY IN ROOM TO RACK FOR SUPPORT OF LOW VOLTAGE CABLING. GROUND PER NEC.
- ⑧ MAINTAIN MINIMUM OF 2' CLEARANCE FROM FRONT AND BACK OF NETWORK RACK.
- ⑨ REMOVE EXISTING RAPID RUN CABLE AND FACE PLATE, EXISTING WIREMOLD TO REMAIN. INSTALL NEW DATA CABLE IN EXISTING WIREMOLD. PROVIDE NEW FACE PLATE.
- ⑩ INSTALL NEW DATA CABLE IN EXISTING WIREMOLD. PROVIDE NEW FACE PLATE.
- ⑪ INSTALL NEW DATA CABLE, AND PROVIDE NEW WIREMOLD TO MATCH EXISTING.
- ⑫ PROVIDE 2" CONDUIT FROM PANEL LB FOR FUTURE AC UNIT CAP ABOVE A113.

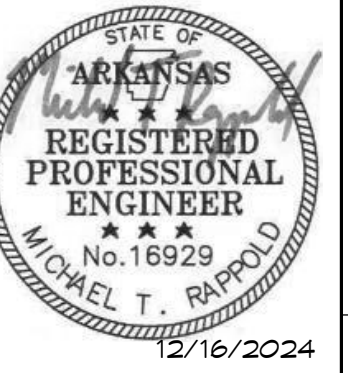


② A115 STORAGE
1/4" = 1'-0"

① POWER PLAN
1/8" = 1'-0"



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KEYED MECHANICAL POWER NOTES

- ① UNIT PROVIDED WITH FACTORY MOUNTED DISCONNECT.
- ② INTERLOCK EXHAUST FAN WITH LIGHTS IN SPACE.
- ③ EXHAUST FAN OPERATES VIA LINE VOLTAGE THERMOSTAT.
- ④ CONNECT TO EXISTING CIRCUIT, SPLICE AND EXTEND CIRCUIT AS REQUIRED.

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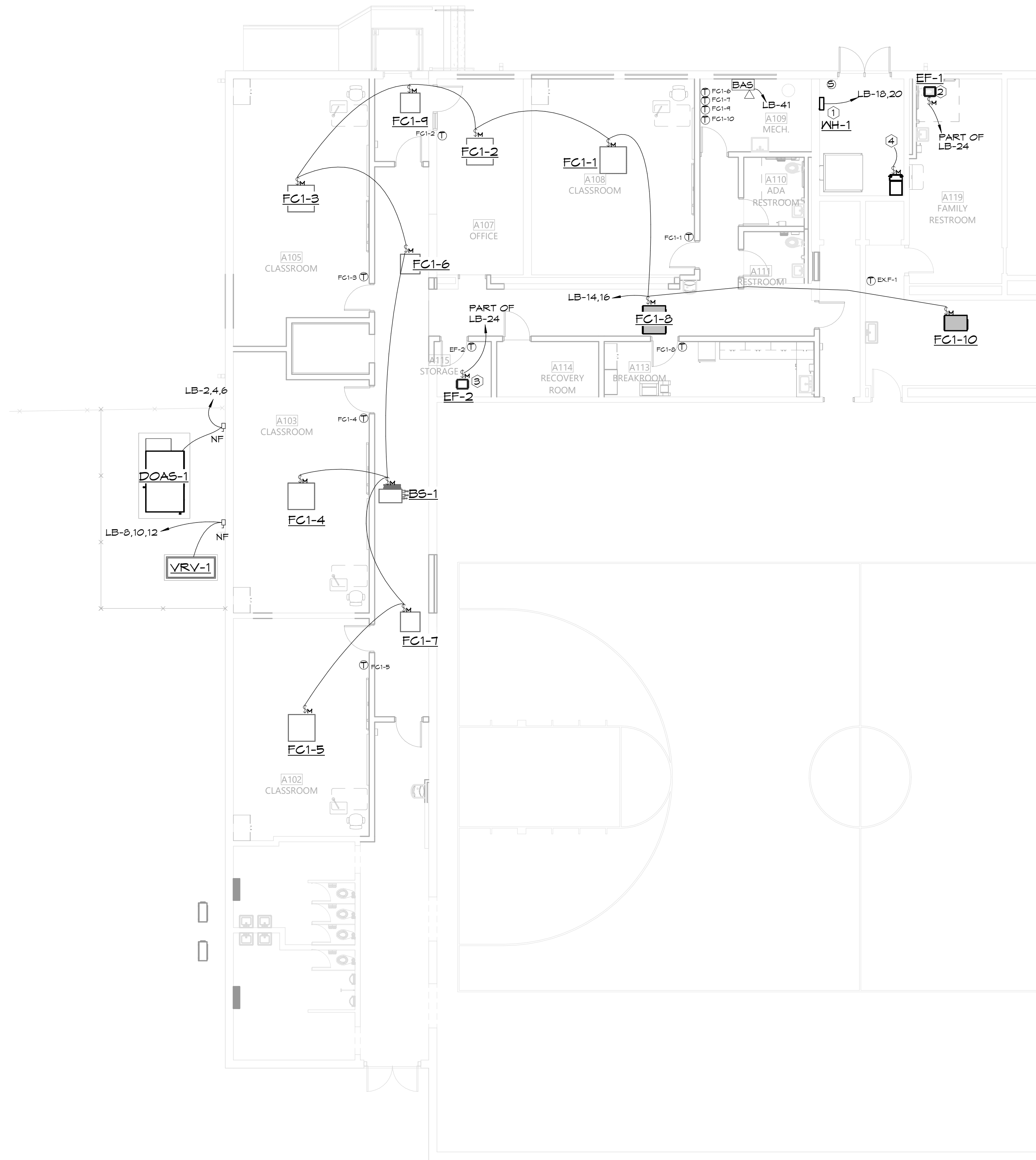
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MECHANICAL POWER PLAN

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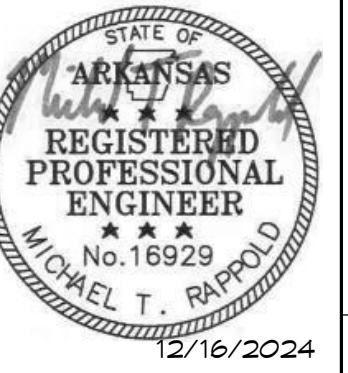
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① MECHANICAL POWER PLAN
 1/8" = 1'-0"



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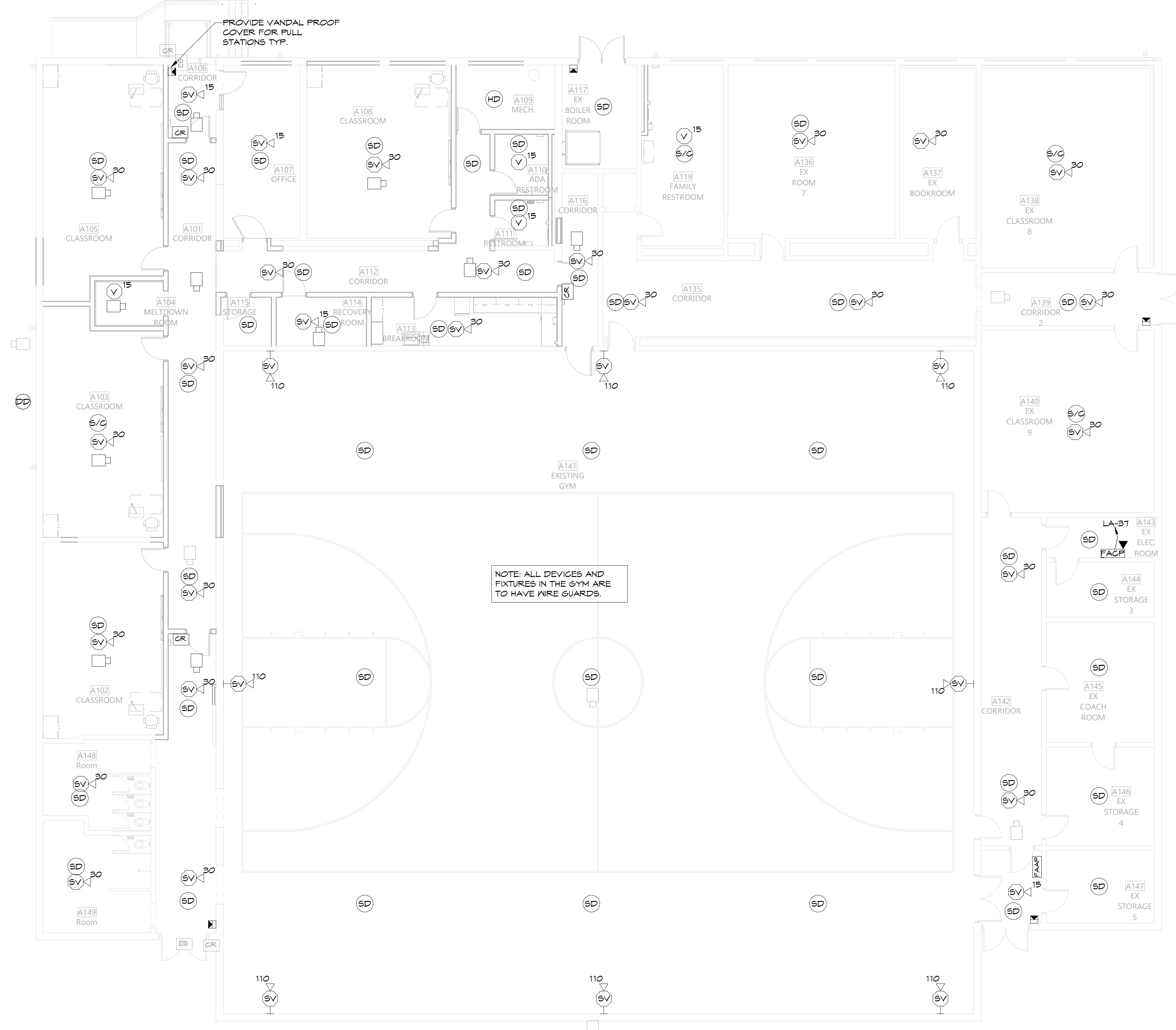
A NEW FACILITY FOR
K-5 ALE at Tillery
ROGERS, ARKANSAS

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MTR
ISSUE DATE:
12/16/2024

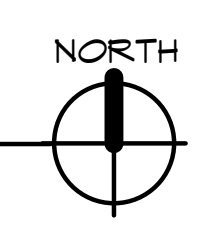
PROJECT NO:
2422
REVISION DATES:
1/13/2025

SPECIAL SYSTEMS PLAN
S H E E T
E2.4

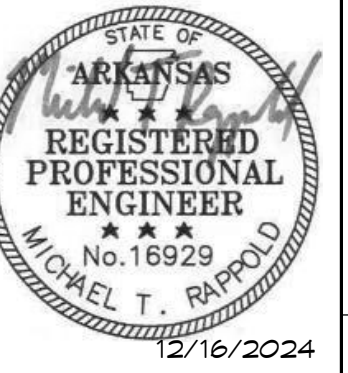
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1 SPECIAL SYSTEMS PLAN
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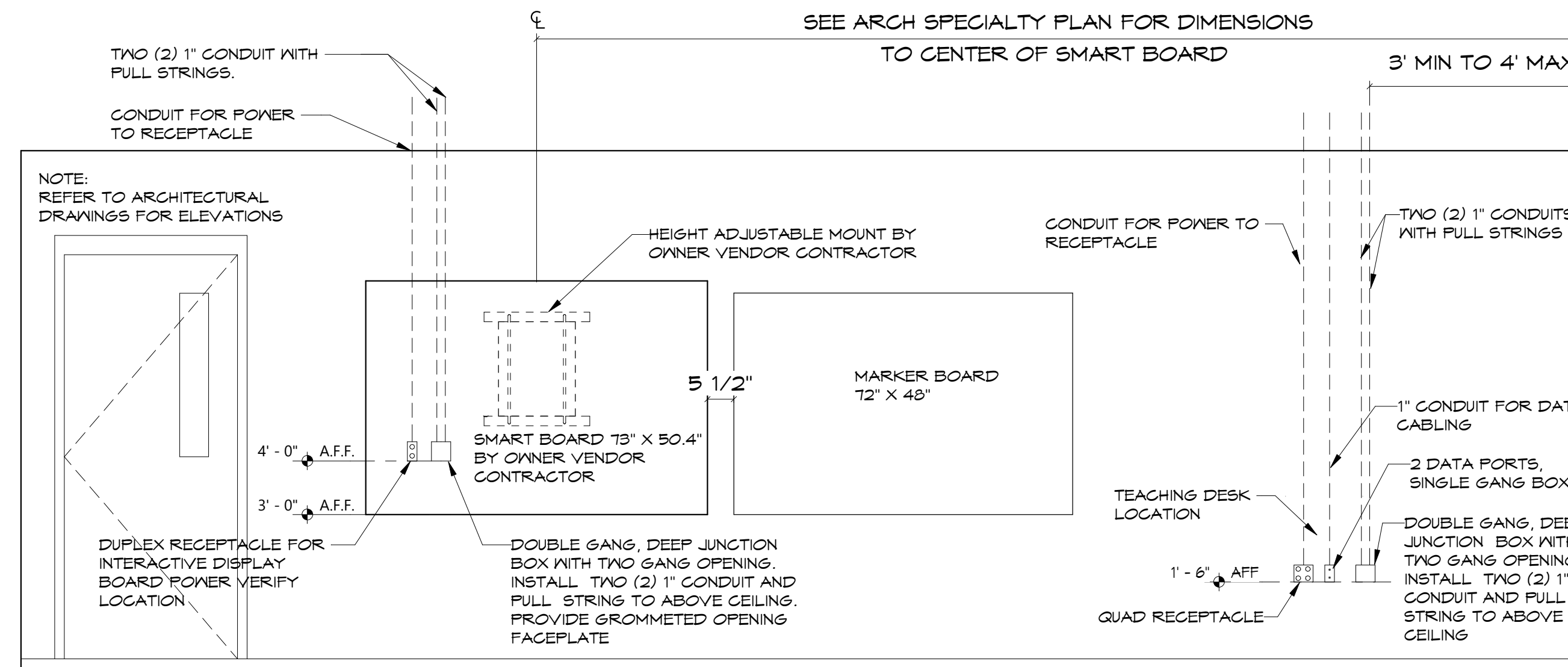
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ELECTRICAL DETAILS
SHEET
E3.1
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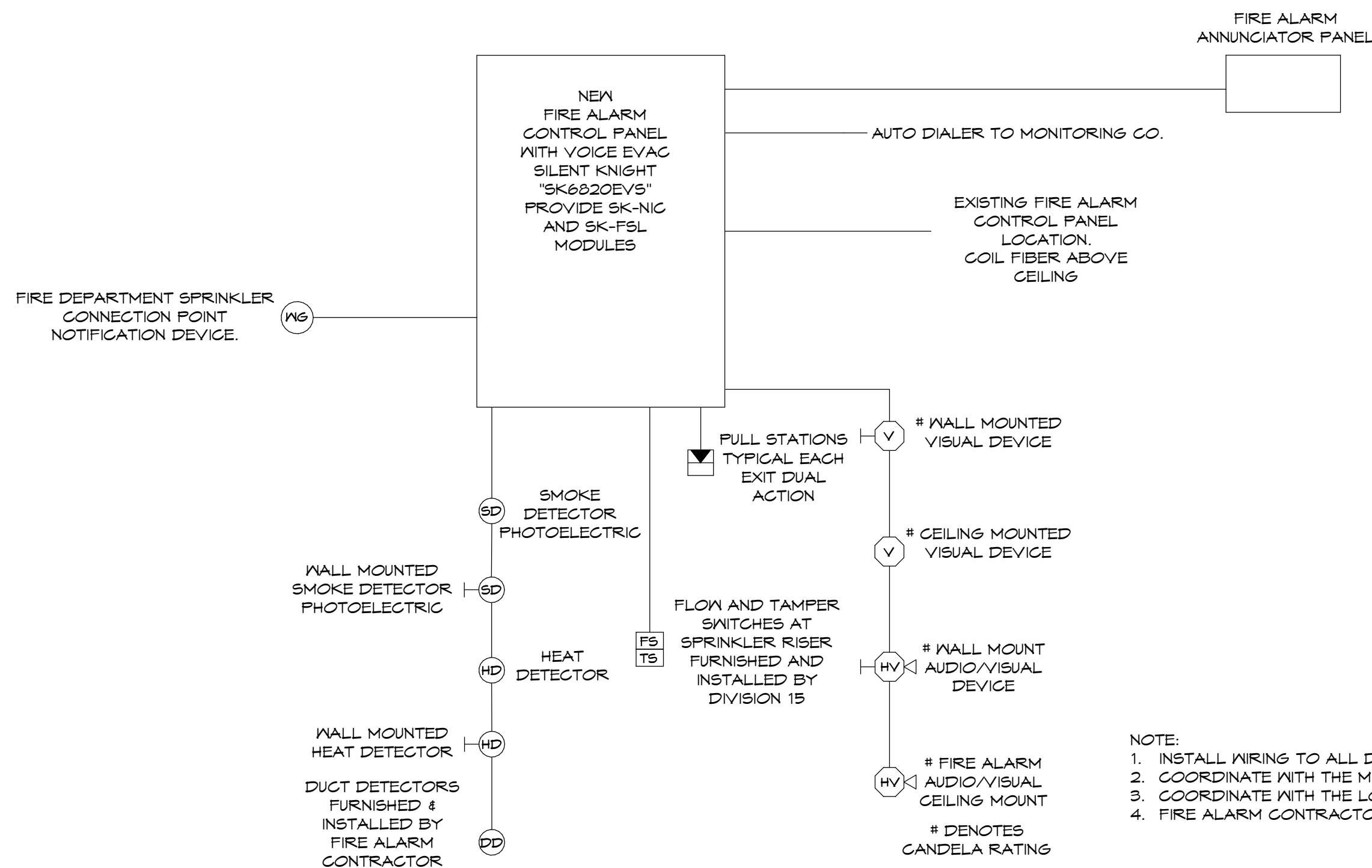
MOUNTING HEIGHTS		
ELECTRICAL OUTLET DEVICE TYPE	MASONRY WALL, BASE (STARTER) COURSE HEIGHT 4 INCH / 8 INCH MOUNTING HEIGHT ABOVE FLOOR TO BOTTOM OF OUTLET (DEVICE) BOX	SHEETROCK WALL, BASE MOUNTING HEIGHT ABOVE FLOOR TO BOTTOM OF OUTLET (DEVICE) BOX
* RECEPTACLES OUTLETS, MICROPHONE OUTLETS (JACKS), EQUIPMENT OUTLETS (JACKS), TELEVISION OUTLETS (JACKS), PORTABLE TELEPHONE OUTLETS, COMPUTER OUTLETS, ETC.		
* GENERAL DEVICE THROUGHOUT	18"	18"
* MECHANICAL EQUIPMENT ROOMS	52"	48"
* ABOVE 24" HIGH COUNTER TOPS	30"	32"
* ABOVE 30" HIGH COUNTER TOPS	36"	40"
* ABOVE 36" HIGH COUNTER TOPS	44"	44"
* ABOVE 48" HIGH COUNTER TOPS	52"	56"
* ABOVE BACKSPLASH TOP	2" (MINIMUM)	2" (MINIMUM)
* ABOVE OR ADJACENT TO LAVATORIES	44"	44"
* BEHIND DOMESTIC REFRIGERATORS	52"	56"
* BEHIND DOMESTIC WASHERS AND DRYERS	36"	32"
* SERVING DOMESTIC DISHWASHERS	2"	2"
* WALL-MOUNTED TELEPHONE OUTLETS	44"	44"
* TELEPHONE/VIDEO CONTROL	44"	44"
TOGGLE SWITCHES	44"	44"
RECESSED MOTOR CONTROLLERS	44"	44"
ELECTRICAL PANELS, TERMINAL CABINETS, ETC., TO CENTER OF CAB OR BOX	50"	48"
WALL SWITCHES	44"	44"
HVAC THERMOSTAT/SENSOR	44"	44"
VOLUME CONTROLS, CALL-IN SWITCHES, DOOR BELL BUTTONS	44"	44"
HORN/STROBES (FIRE ALARM)	80"	80"
* PULL STATIONS (FIRE ALARM)	42" MINIMUM 48" MAXIMUM	42" MINIMUM 48" MAXIMUM

NOTE: VERIFY ALL MILLWORK LOCATIONS WITH THE ARCHITECTURAL MILLWORK DRAWINGS PRIOR TO ROUGH-IN.
* OPERATING HANDLE TO BE MOUNTED NO LESS THAN 42" OR NO MORE THAN 48" A.F.F.

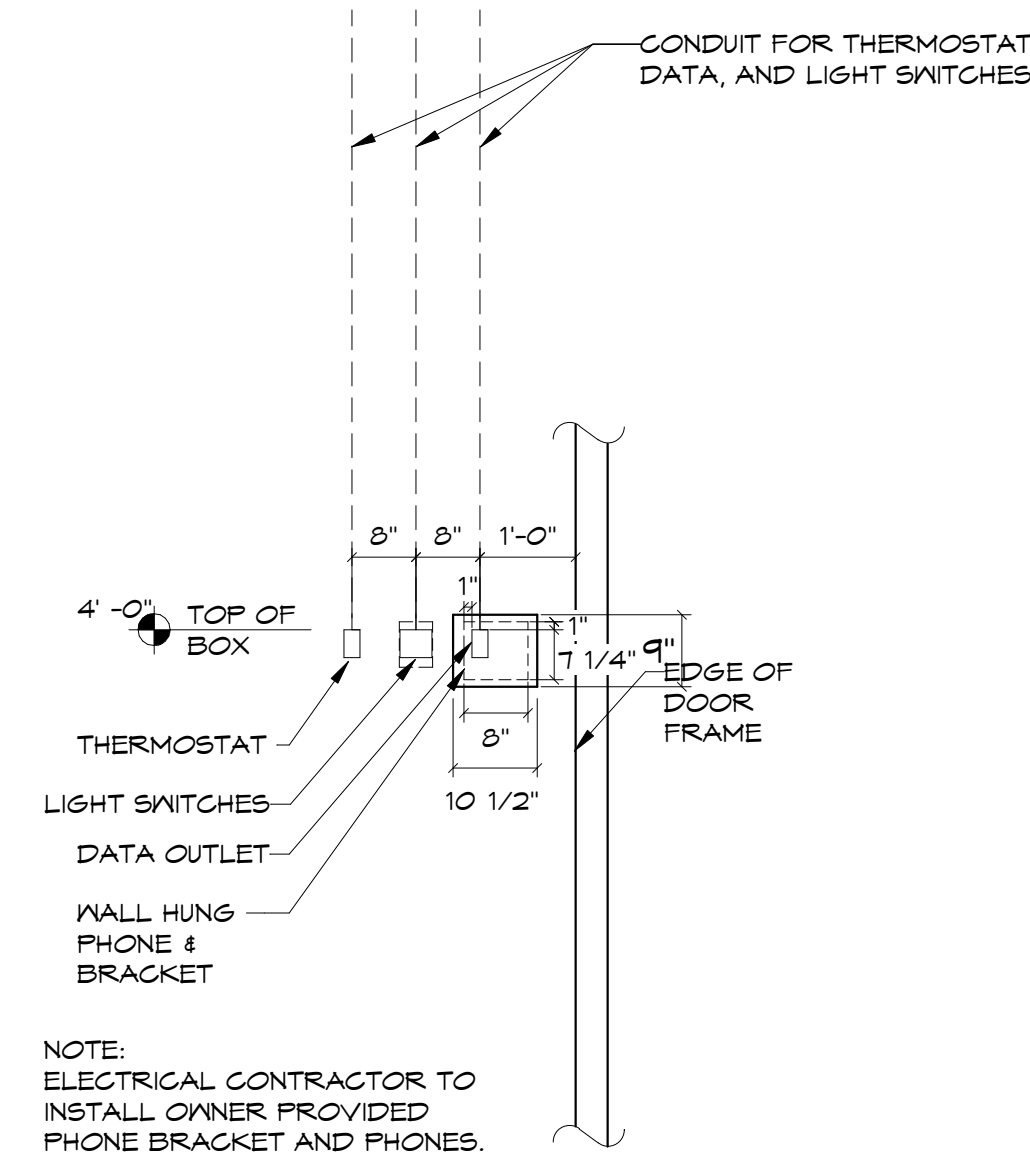
1 MOUNTING HEIGHT TABLE
N.T.S.



2 TEACHING WALL & DESK DETAIL
N.T.S.

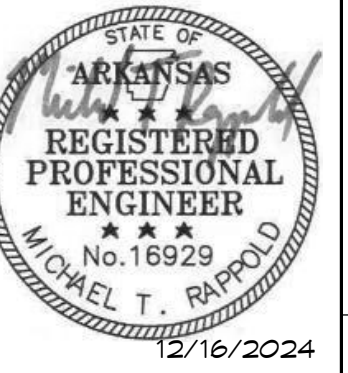


4 FIRE ALARM SYSTEM RISER DIAGRAM
N.T.S.



5 PHONE MOUNTING DETAIL
N.T.S.

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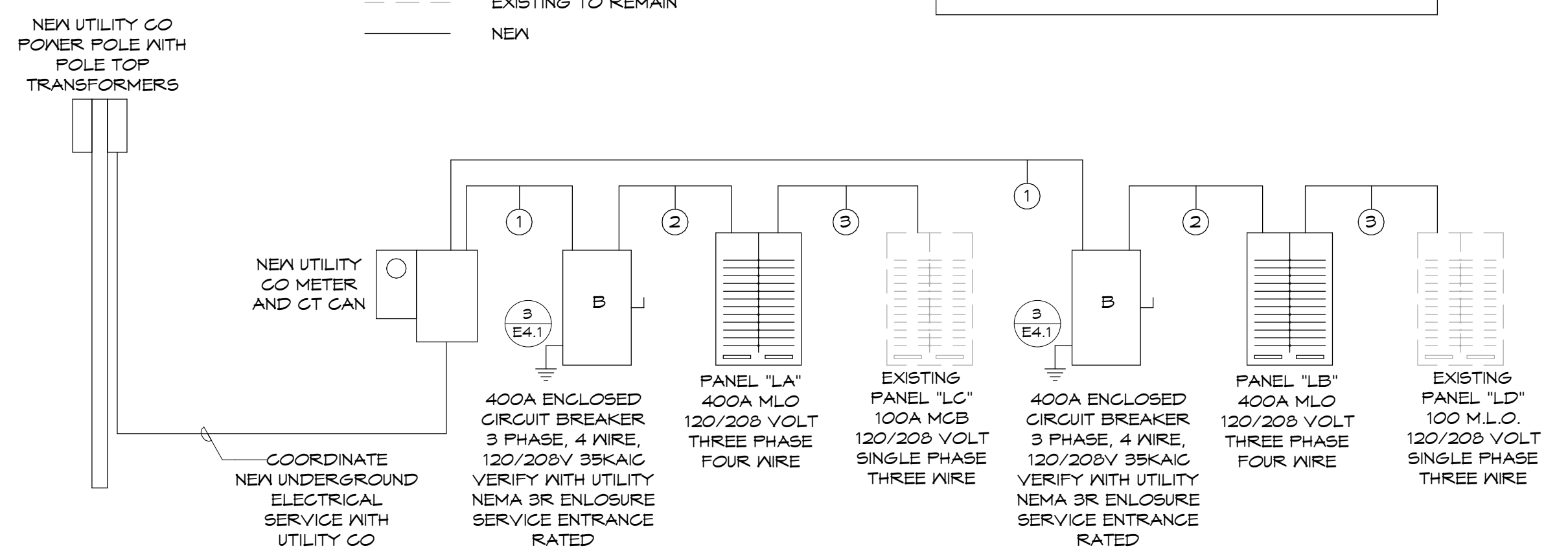
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ELECTRICAL RISER
 DIAGRAMS
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E4.1
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FEEDER SCHEDULE	
①	2 SETS: 4-#3/0; 2' CONDUIT EACH
②	2 SETS: 4-#3/0, 1-#3 GRD; 2' CONDUIT EACH
③	3-#3, 1-#6 GRD; 1 1/2" CONDUIT

RISER LEGEND

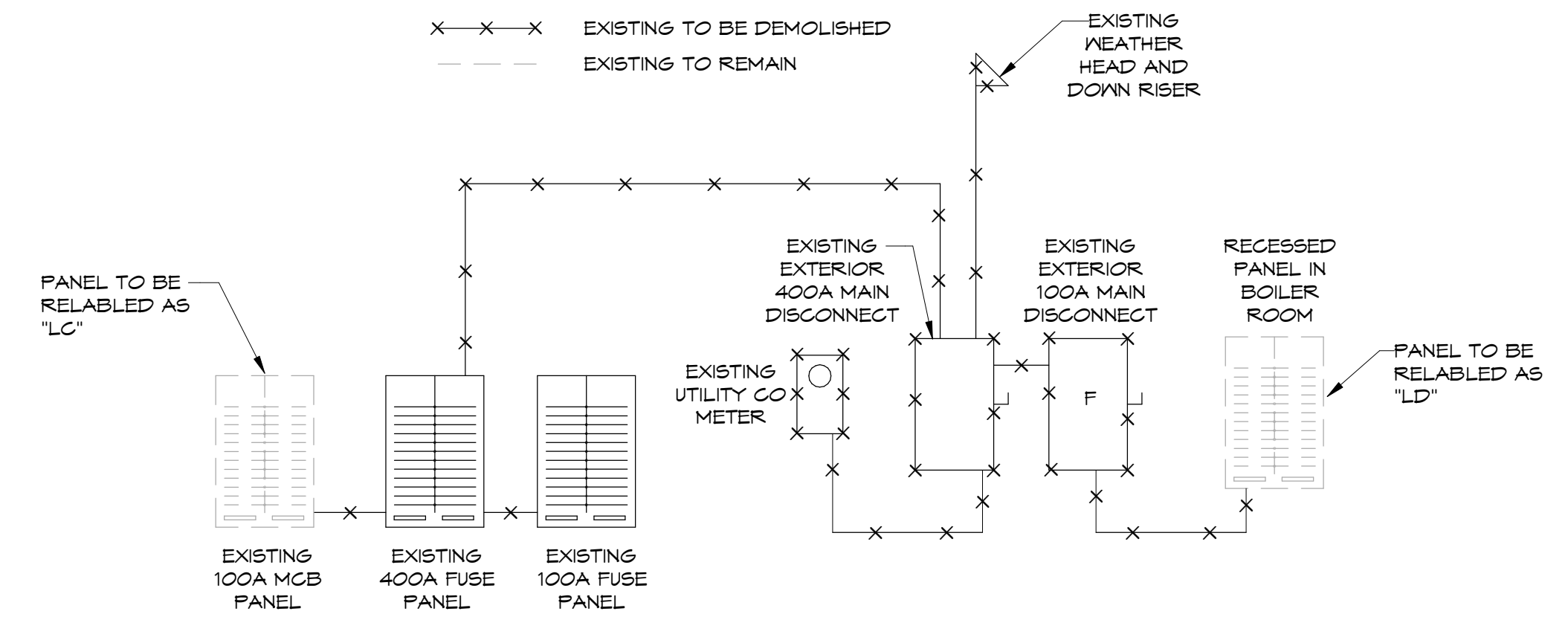
- - - - - EXISTING TO REMAIN
 _____ NEW



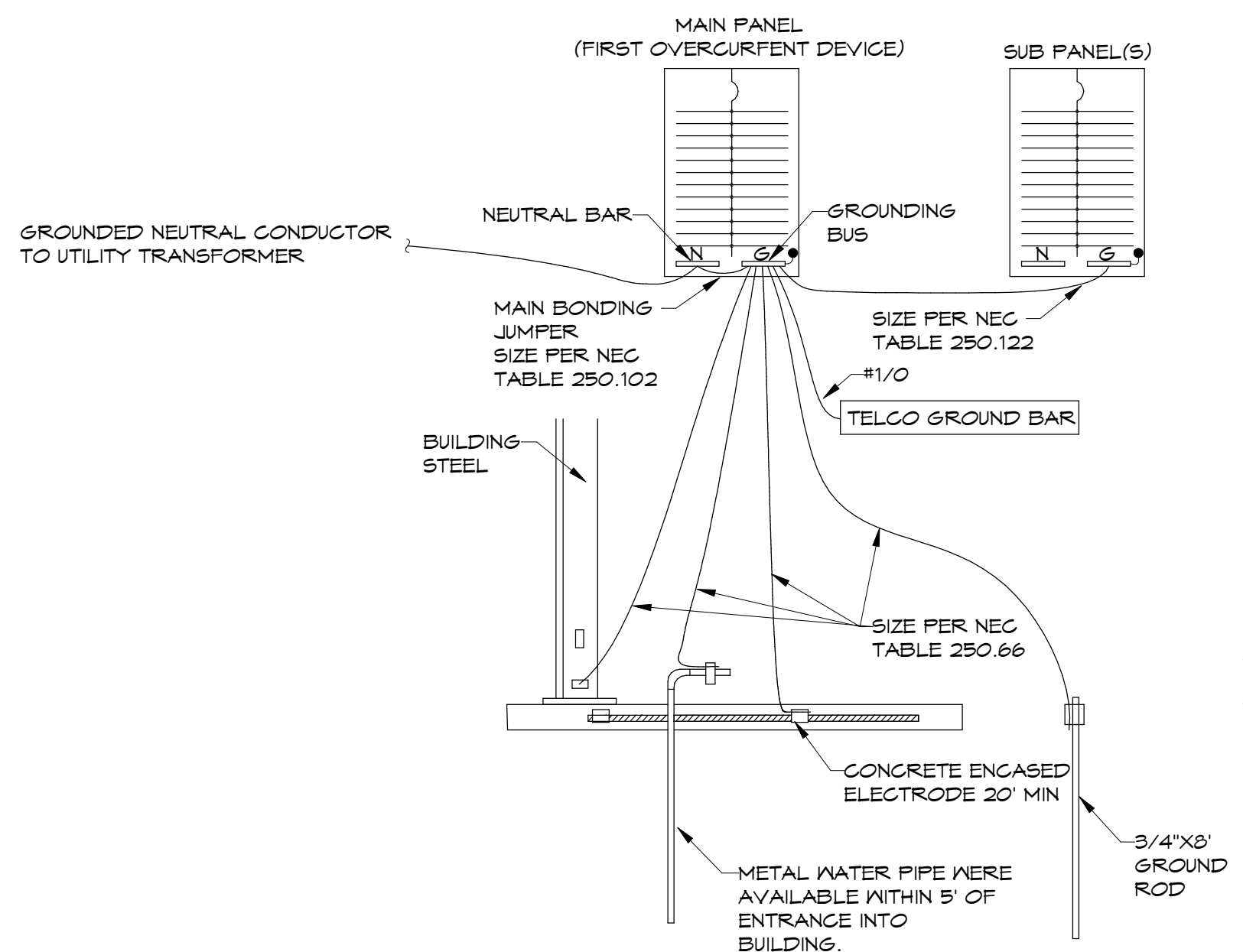
② NEW ELECTRICAL RISER DIAGRAM
N.T.S.

DEMO RISER LEGEND

x-x-x-x EXISTING TO BE DEMOLISHED
 - - - - - EXISTING TO REMAIN



① DEMOLITION ELECTRICAL RISER DIAGRAM
N.T.S.



1. ALL GROUNDING BUS TO BE SOLIDLY CONNECTED TO ENCLOSURE.
2. USE EXOTHERMIC WELDS FOR CONNECTION TO BUILDING STEEL AND REBAR.
3. PROVIDE SYSTEM BONDING JUMPER IN TRANSFORMERS SIZED PER NEC TABLE 250.102.
4. FURNISH TELCO GROUND BAR, COPPER, 4" X 20" X 1/4" WITH PREDRILLED 1/4" - 20 HOLES AND INSULATED STANDOFF MOUNTS. PROVIDE ONE PER DATA/COMMUNICATIONS/LOW VOLTAGE SYSTEMS ROOM.

③ GROUNDING DIAGRAM
N.T.S.

WARNING

MAXIMUM AVAILABLE FAULT CURRENT:
 X,XXX
 (SYMMETRICAL RMS AMPERES)
 DATE: XX/XX/XX

- NOTES:
1. LABEL SHALL BE ATTACHED TO ELECTRICAL SERVICE EQUIPMENT PER NEC 110.24.
 2. PROVIDE DURABLE WEATHERPROOF LABEL.
 3. LABEL IS SHOWN TO SCALE.
 4. ELECTRICAL CONTRACTOR SHALL COORDINATE AVAILABLE FAULT CURRENT WITH UTILITY AND COMPLETE LABEL ACCORDINGLY.

④ FAULT CURRENT LABEL
N.T.S.

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