

A REMODEL FOR

BHS ANIMAL & PLANT SCIENCE

BENTONVILLE, AR

Issue Date: 2/23/2026

Revision Date: 3/16/2026

Project No.: 2540

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

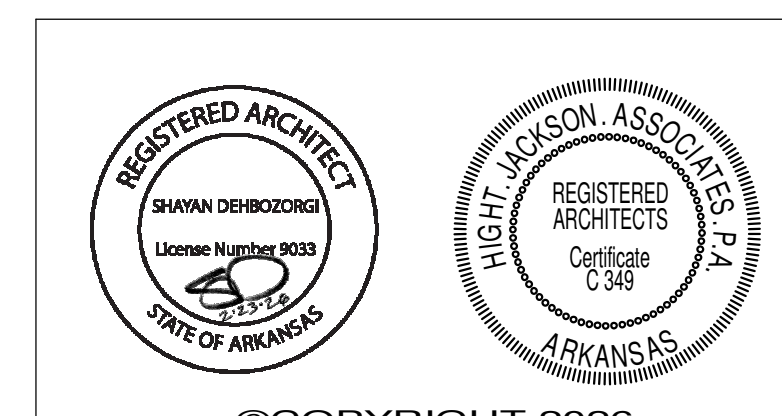
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Hight Jackson

ASSOCIATES

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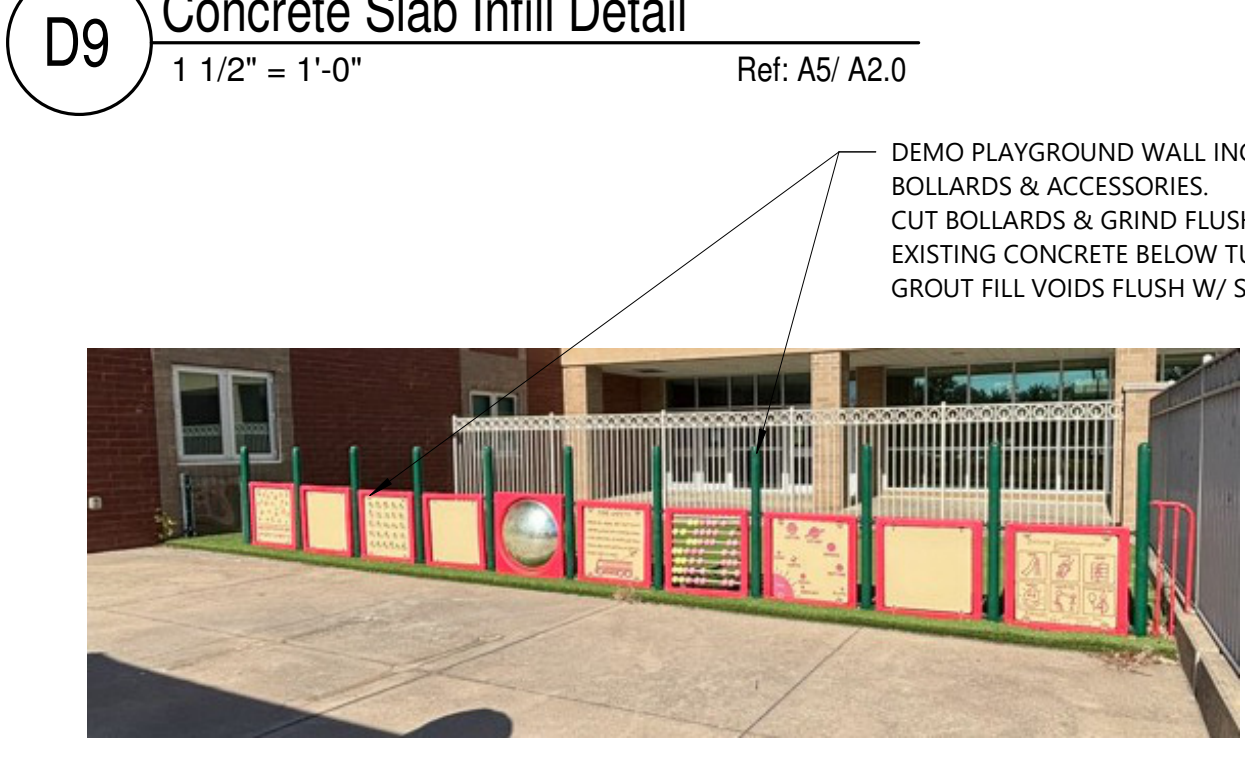
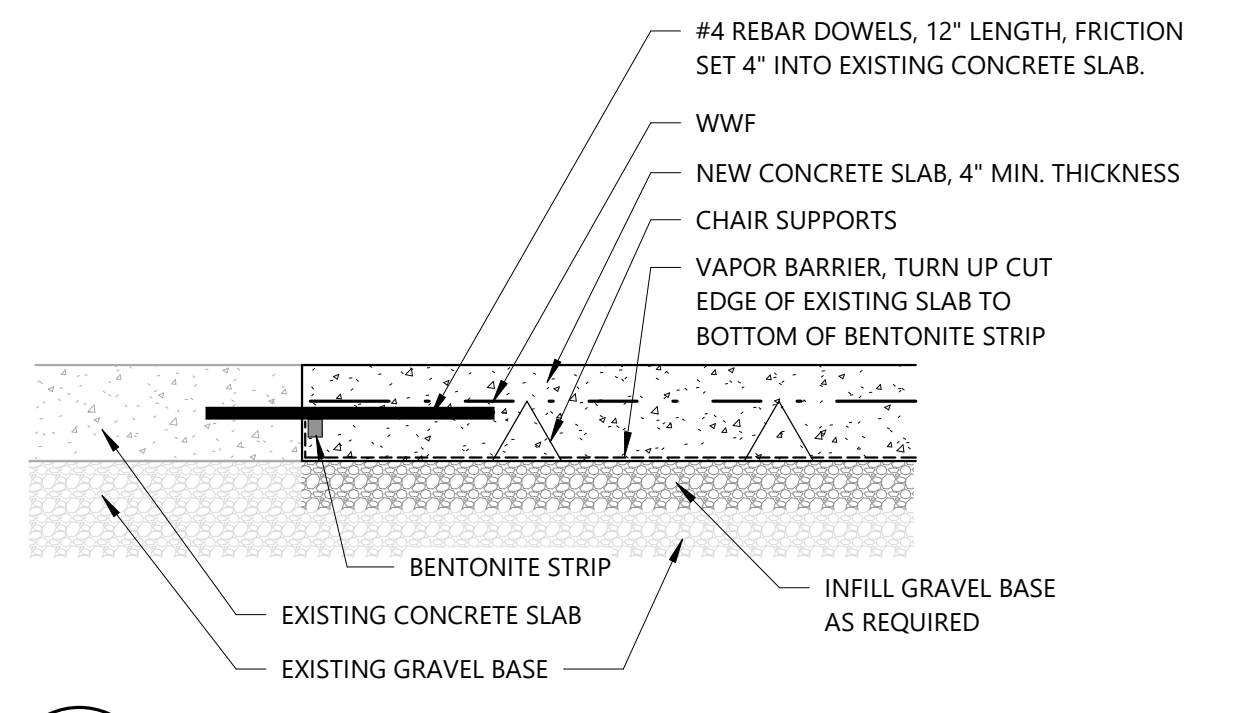
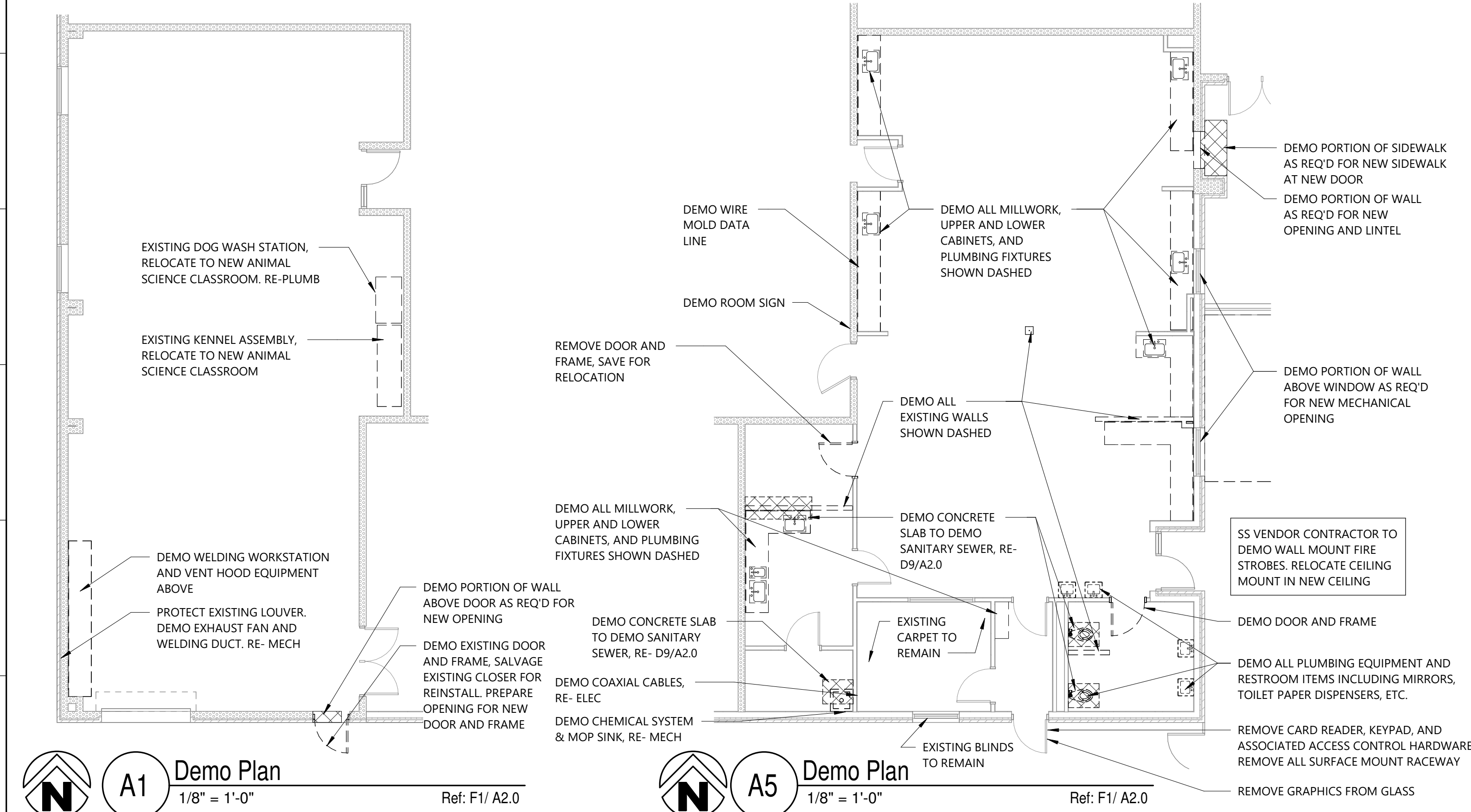
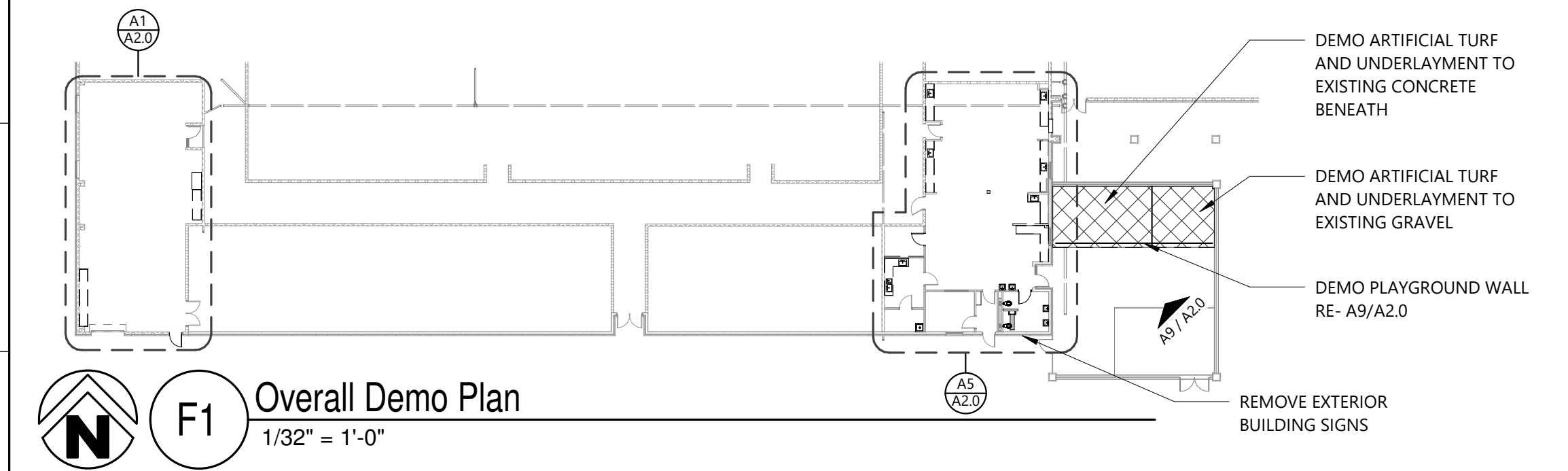
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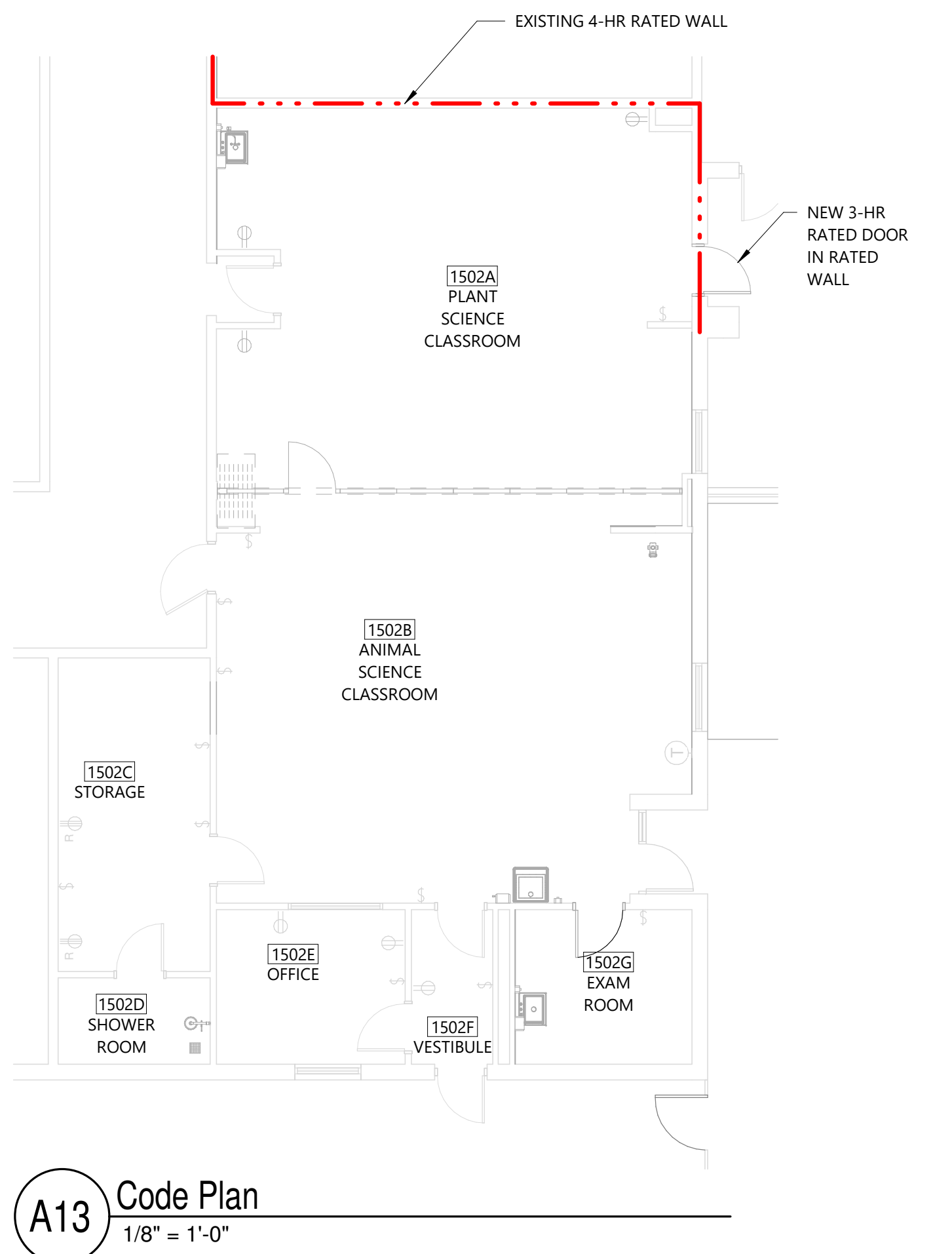
General Demolition Notes

1. 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.
2. PRIOR TO DEMOLITION AND CONSTRUCTION, IT IS THE CONTRACTOR'S 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.
3. 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 STORE CLASSROOM SUPPLIES DURING PHASE REMODEL.
4. 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.
5. 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.
6. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES AND INFORMATION.
7. REPORT ANY DISCREPANCIES IMMEDIATELY TO ARCHITECT.
8. SAW CUT AND REMOVE SECTIONS OF EXISTING SLABS AND EXISTING SIDEWALKS AS REQUIRED TO INSTALL NEW WORK. PATCH AND REPAIR EXISTING SLABS AND SIDEWALKS AS REQUIRED.
9. REPAIR EXISTING WALLS AT LOCATIONS OF ANY DEMOLISHED PORTIONS OF WALLS AND DOOR FRAMES AS REQUIRED FOR NEW SURFACE AND FINISH.
10. REMOVE EXISTING LIGHTS RE- REFLECTED CEILING PLAN. REFER TO ELECTRICAL/LIGHTING PLAN FOR ADDITIONAL NOTES.
11. REFER TO M.E.P. DEMOLITION PLANS AND NOTES FOR ADDITIONAL REMOVAL AND/OR RELOCATION OF SYSTEMS NOT NOTED IN ARCHITECTURAL.
12. 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.
13. REMOVE ALL EXISTING COUNTERTOPS, MILLWORK, CABINETS, SHELVES, AND HOOKS U.N.O.
14. 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.
15. REMOVE ANY MOVABLE ITEMS SUCH AS SHELVING, FURNITURE, ETC. THAT HAS NOT BEEN REMOVED BY THE OWNER COORDINATE WITH OWNER.
16. ALL CRACKS, VOIDS, HOLES, ETC. IN CMU WALLS TO BE REPAIRED TO RECEIVE NEW FINISH.
17. MODIFY, EXTEND, OR SHORTEN EXISTING SANITARY SEWER AND WATER LINES AS REQUIRED TO INSTALL NEW WORK RE-PLUMBING DRAWINGS.
18. ALL WALL SURFACES AFFECTED BY DEMO OR NEW WORK MUST BE REPAIRED FOR FINAL FINISH SURFACE RE- SPECIFICATION SECTION 092900 FOR TEXTURE REQUIREMENTS AT PAINTED GYP. BD. WALLS
19. 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
20. REMOVE ALL OLD ANCHORS, BRACKET, SCREENS ETC. FROM EXISTING WALLS. PATCH ANY REMAINING HOLES TO CREATE LIKE NEW WALL FOR NEW PAINT APPLICATION.
21. ALL EXPOSED CAPPED PLUMBING LINES TO BE TERMINATED WITHIN WALL OR OVERHEAD, REPAIR WALL TO CREATE LIKE NEW WALL FOR NEW FINISHES/PAINT APPLICATION.
22. REMOVE EXISTING RESTROOM MIRRORS
23. REMOVE ALL EXISTING RUBBER BASE
24. ANY INTERRUPTION IN SERVICES MUST BE COORDINATED WITH OWNER PRIOR TO SHUT OFF.
25. REPAIR WALLS TO LIKE NEW CONDITION AT ANY REMOVED SURFACE APPLIED PRODUCTS. REMOVE ANY ADHESIVE OR INCONSISTENT TEXTURE FROM WALL. REPAIR MASONRY JOINTS
26. 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.



TYPE OF CONSTRUCTION: ORIGINALLY 1994
SBC TYPE IV-B PROTECTED, SPRINKLERED

CURRENT EQUIVALENT: 2021 AFPC (IBC) TYPE II-A, PROTECTED, SPRINKLERED



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 ASSOCIATES
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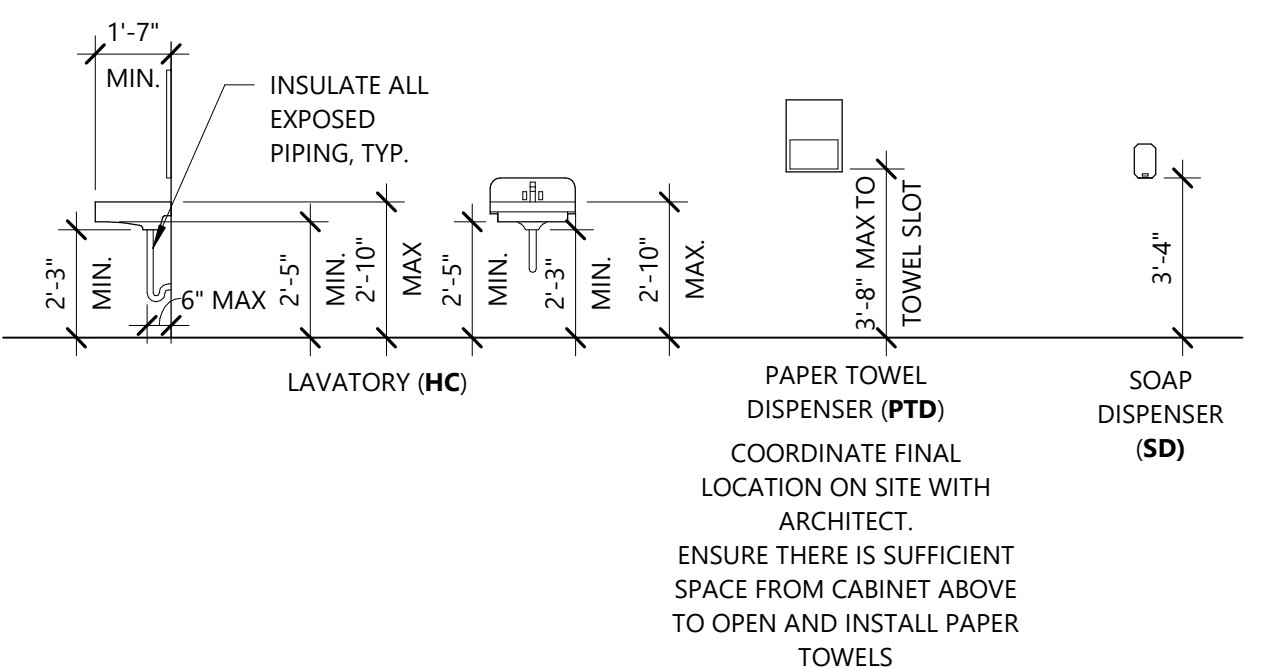
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DEMOLITION PLAN & NOTES & CODE PLAN
 SHEET
A2.0
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Finish Legend		
BASE		
RB	6" RUBBER BASE (4" AT MILLWORK)	TARKETT#28 MEDIUM GREY CG - RUBBER BASE
CEILING		
AC-1	2' X 4' ACOUSTICAL CEILING TILE	SUSPENDED ACOUSTICAL CEILING
ETR	EXISTING CEILING TO REMAIN	
FLOORS		
ETR	EXISTING FLOOR TO REMAIN	
PC	EXISTING CONCRETE, POLISHED	GRIND & POLISH, RE- SPECS
MILLWORK		
SS-1	SOLID SURFACE COUNTERTOP	WILSONART SS BEACHFRONT 923355
TFL-1	THERMALLY FUSED LAMINATE (MELAMINE) CABINET BODY	WILSONART OILED SOAPSTONE 4882-38
WALLS		
FRP	FIBERGLASS REINFORCED PANEL	COLOR TBD
PT-1	PAINT, TYP WALL COLOR	SHERMAN-WILLIAMS SW 7015 "REPOSE GRAY"
PT-2	PAINT, TYP DOOR & FRAME @ INTERIOR	COLOR MATCH TO EXISTING INT. DOOR FRAME
PT-3	PAINT, TYP DOOR & FRAME @ EXTERIOR	COLOR MATCH TO EXISTING EXT. DOOR FRAME

Typical A.D.A. Mounting Heights Reference Diagram



Specialty Plan Legend

CG	CORNER GUARD
△	SIGN TYPE, RE- ROOM SIGNAGE SCHEDULE

SYMBOL LEGEND

Floor Plan
 1/8" = 1'-0" Ref: A1/ A2.2
 DRAWING NUMBER BASED ON SHEET GRID
 DRAWING TITLE
 DRAWING SCALE
 BACK REFERENCE TO PARENT DRAWING

DOOR MARK DIAGRAM
 DOOR NUMBER
 DOOR TYPE
 HARDWARE SET
 FRAME TYPE
 FIRE LABEL

SECTION OR DETAIL NUMBER
 SHEET NUMBER

WALL SECTION
 MILLWORK/INTERIOR ELEVATION MARK

ROOM NUMBER AND NAME
 101 ROOM NAME
 101'-0" T.O. STEEL ELEVATION MARK SECTION AND PLAN

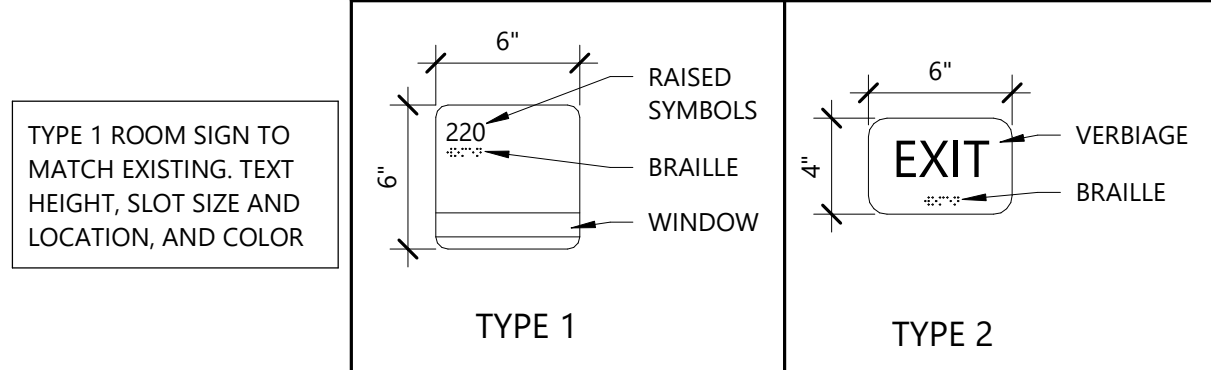
NORTH ARROW

Room SIGNAGE Schedule	
△	ROOM NAME
△	CLASSROOM/OFFICE/LAB
△	EXIT

WALL LEGEND

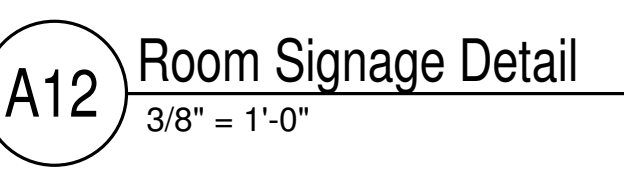
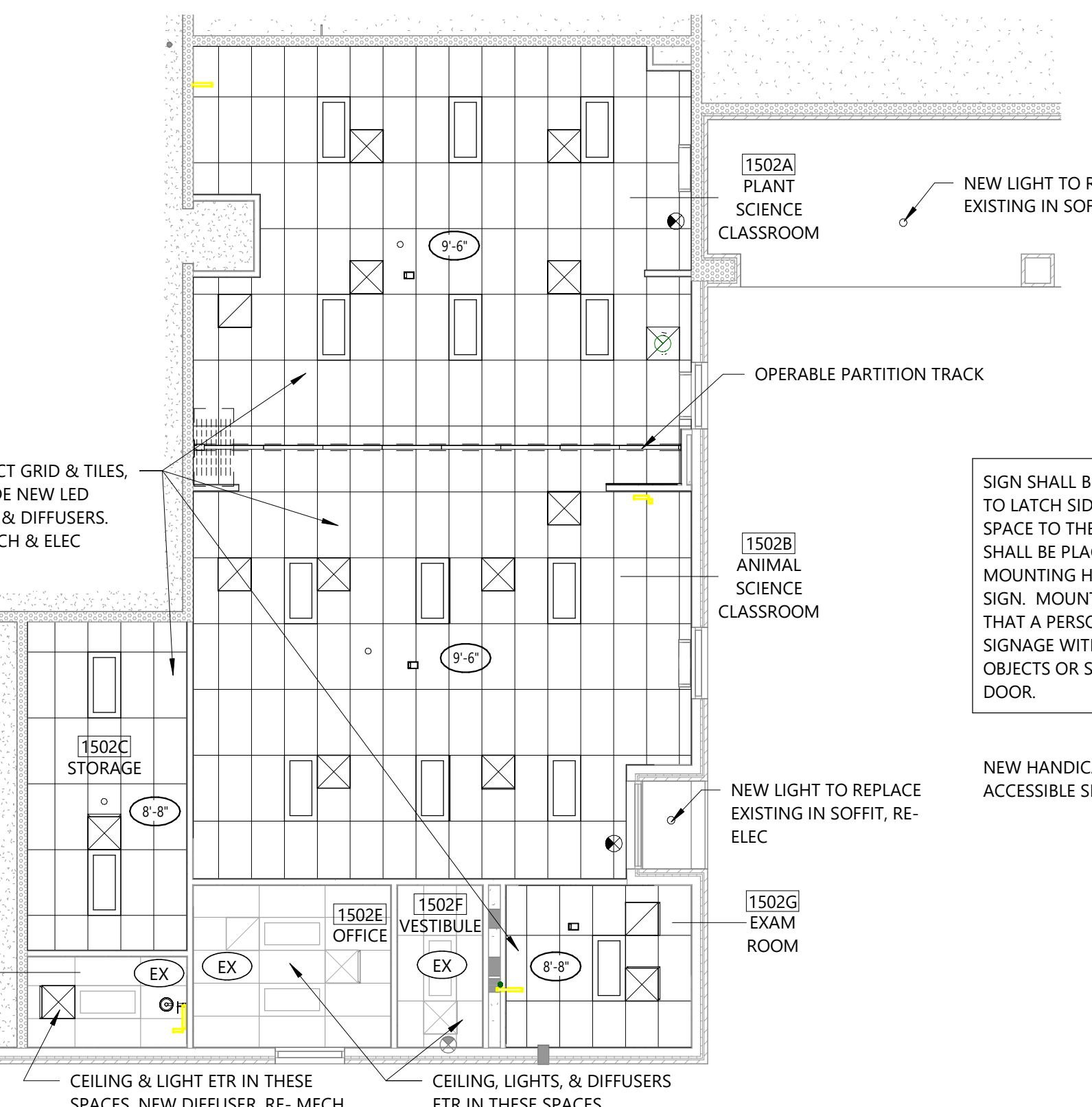
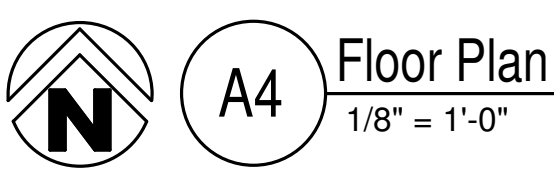
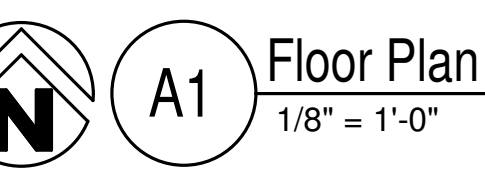
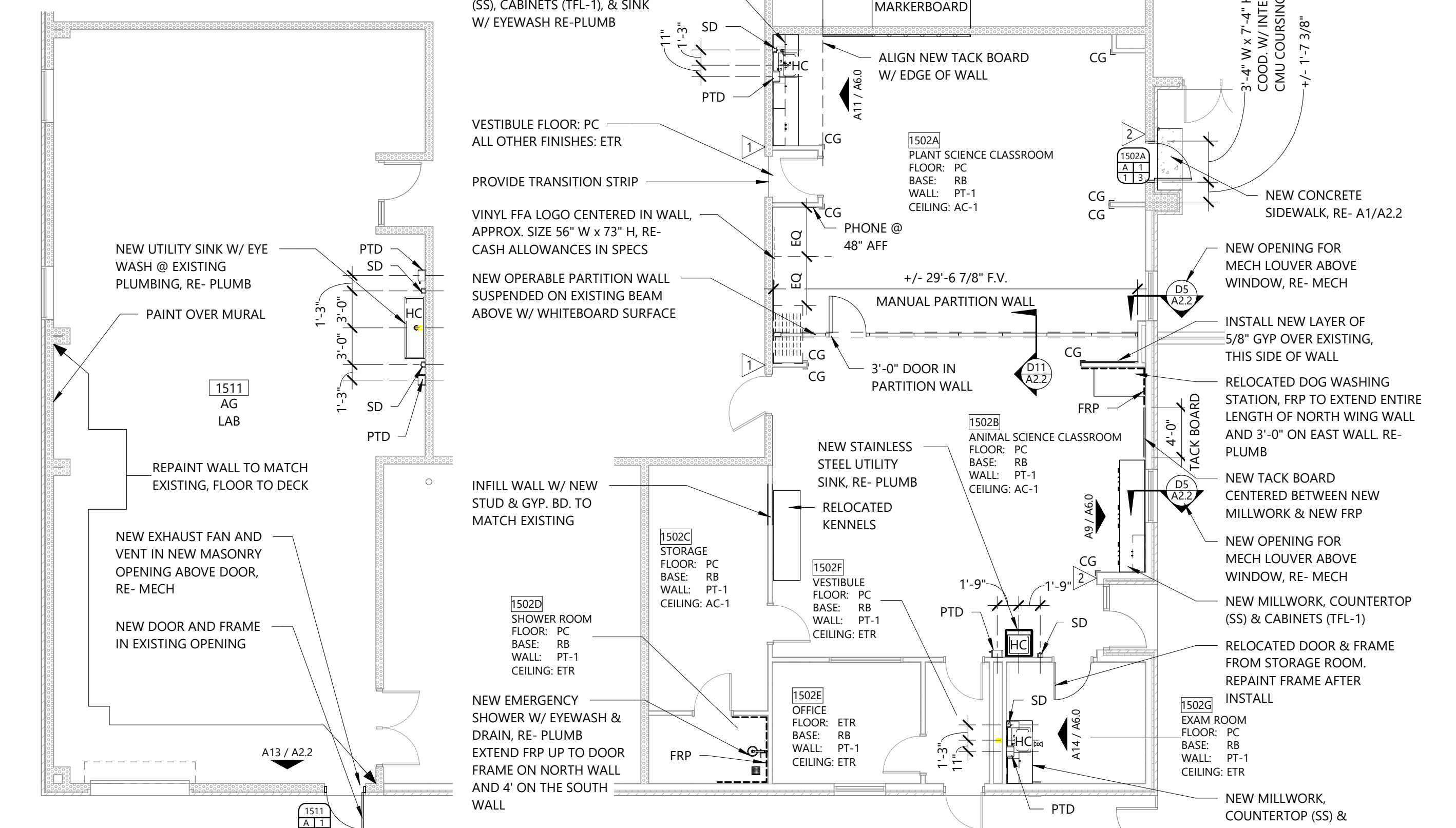
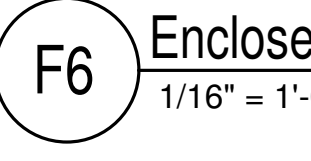
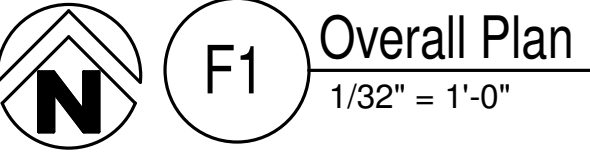
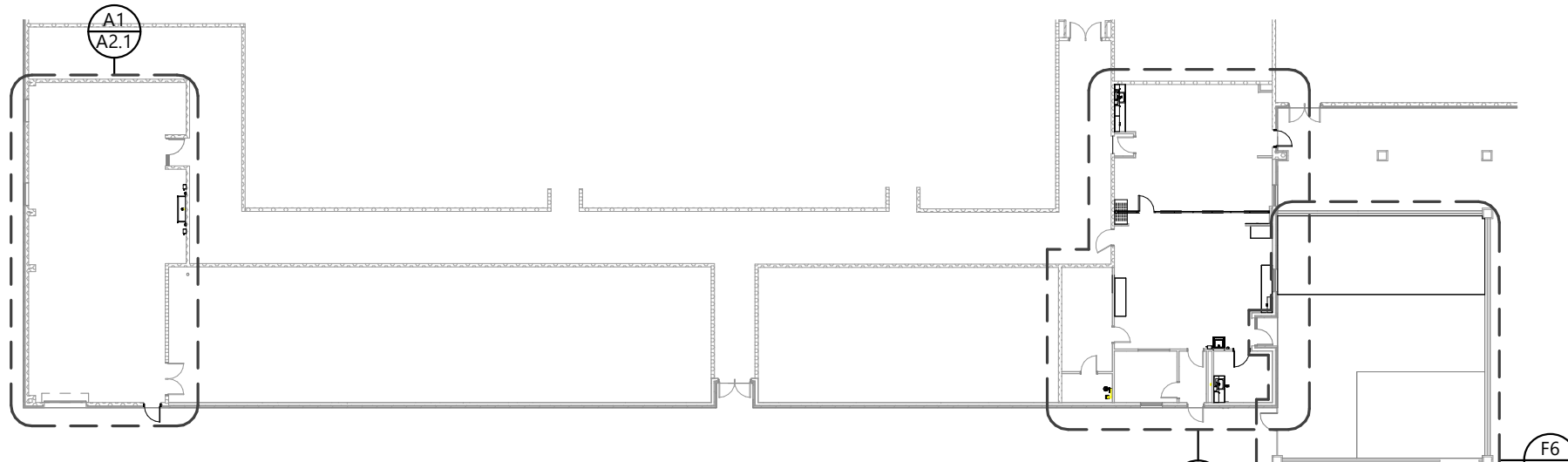
DESIGN	EXISTING WALL AND PARTITION MATERIALS
TYPE 1	3 5/8" OR 6" METAL STUD WALL
TYPE 2	8" CMU BLOCK WALL

Sign Design Types



General Finish Notes

- CEILINGS, LIGHTS, DIFFUSERS TO REMAIN IN ROOMS WHERE CEILING IS ETR
- PAINT WALLS WITHOUT CEILINGS FULL HEIGHT TO UNDERSIDE OF DECK.
- PROVIDE OUTSIDE CORNER GUARDS AS SPECIFIED ON ALL GYPSUM BOARD OUTSIDE CORNERS UNLESS NOTED OTHERWISE.
- UNLESS SHOWN OTHERWISE 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.
- FLOOR MATERIAL TRANSITIONS AT DOORWAYS SHALL HAPPEN BELOW DOOR LEAF IN CLOSED POSITION. FLOOR PATTERN PLANS ARE TO SHOW MATERIAL COLOR AND LAYOUT ONLY.
- FRP TO EXTEND 8" VERTICALLY, STARTING AT FINISH FLOOR, AND EXTEND ENTIRE WALL BEHIND EMERGENCY SHOWER AND UP TO 4' EITHER SIDE. DO NOT INSTALL RUBBER BASE AT FRP.
- FRP TO EXTEND 8" VERTICALLY, STARTING AT FINISH FLOOR AT DOG WASH STATION. DO NOT INSTALL RUBBER BASE AT FRP.
- NEW HOLLOW METAL DOOR AND FRAME TO BE PAINTED SPLIT FRAME, INTERIOR COLOR PT-2 AND EXTERIOR COLOR PT-3.
- AT FIRE RATED WALLS WHERE FIRE CAULK WILL BE EXPOSED, BACKSET FIRE CAULK AND CAULK OVER WITH COLOR MATCH CAULK.
- INSTALL BOTTOM OF TACK AND MARKER BOARDS AT 3'-0" AFF. HEIGHT OF BOARDS TO BE 4'-0".



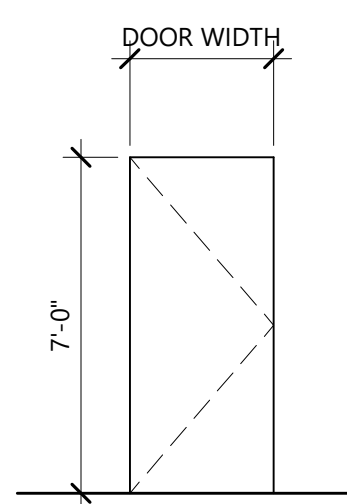
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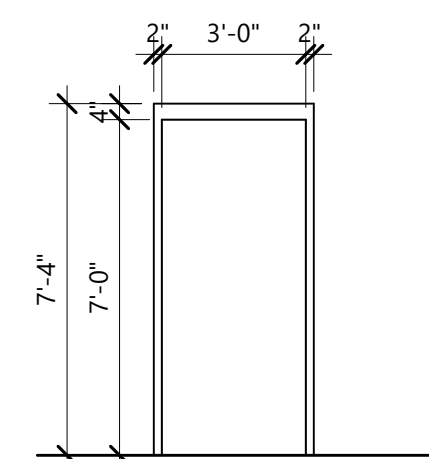
FLOOR PLAN, NOTES, DETAILS
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Door Types



Door Type A
HOLLOW METAL DOOR, PAINTED, EXT. LOCATIONS INSULATED AND GALVANIZED RE--SPECS.

Door Frame Type



Frame Type 1
HOLLOW METAL FRAME PAINTED

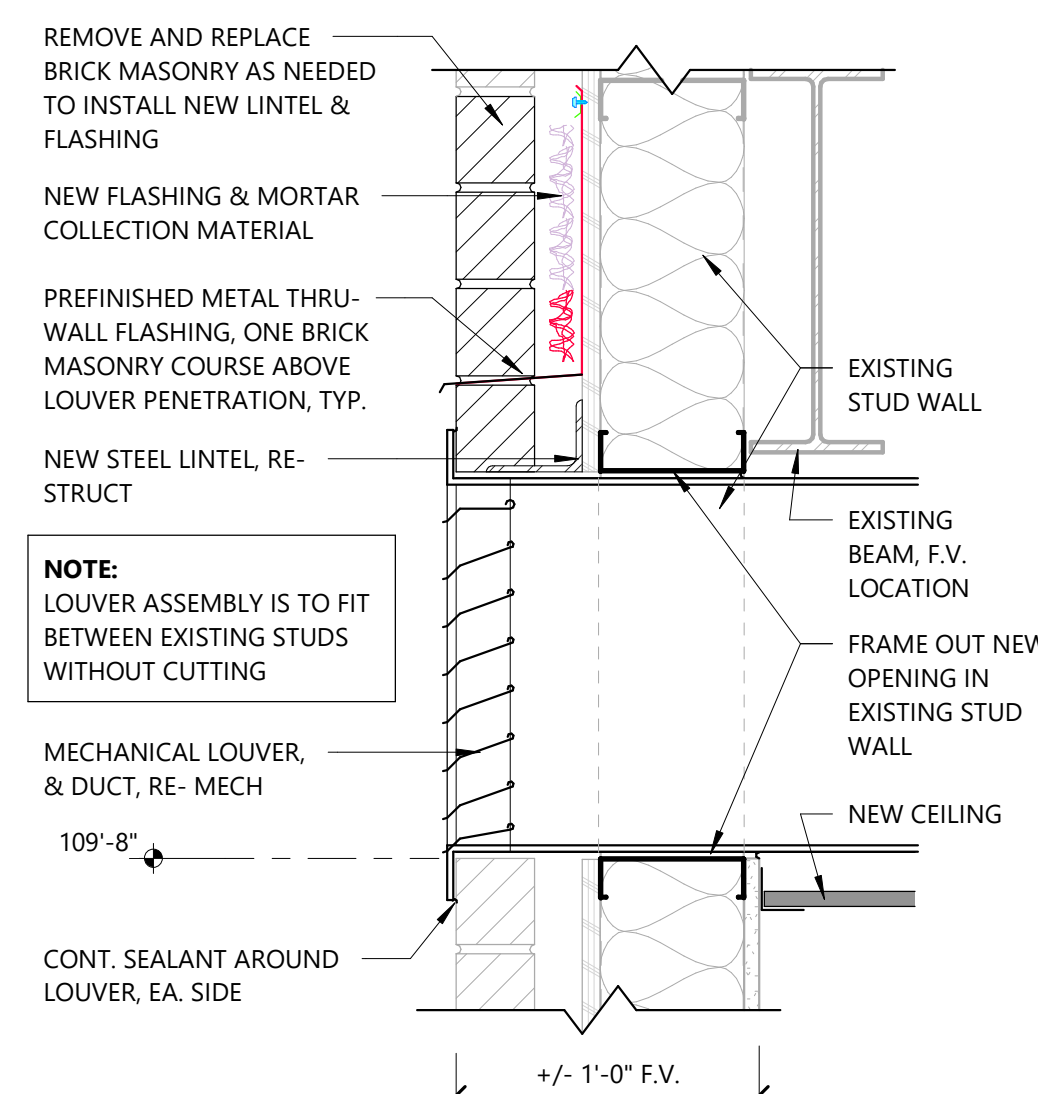
- Door Frame & Window Frame General Notes**
- 1 PROVIDE REINFORCING IN HOLLOW METAL DOOR AND FRAMES AS REQUIRED TO PROPERLY SECURE HARDWARE, RE- SPECS
 - 2 PROVIDE WEATHER STRIPPING FOR ALL HOLLOW METAL DOOR FRAMES
 - 3 DOOR LEAVES ARE STANDARD 3'-0" WIDE AND 7'-0" HIGH
 - 4 DETAILS TO NOT INDICATE DOOR SWING. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR SWING
 - 5 CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF FRAME THROAT DEPTHS WITH WALL THICKNESS PRIOR TO ORDERING FRAMES
 - 6 PROVIDE GALVANIZED, INSULATED, HOLLOW METAL DOORS AT EXTERIOR LOCATIONS
 - 7 ALL CLOSERS TO HAVE PARALLEL ARMS, UNLESS NOTED OTHERWISE OR INSTALLATION REQUIRES ALTERNATE ARM TYPE
 - 8 PROVIDE FIRE GASKET AROUND PERIMETER OF ALL FIRE RATED DOORS IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE.
 - 9 VERIFY LINTEL CONDITIONS WITH STRUCTURAL LINTEL PLAN

Hardware Sets

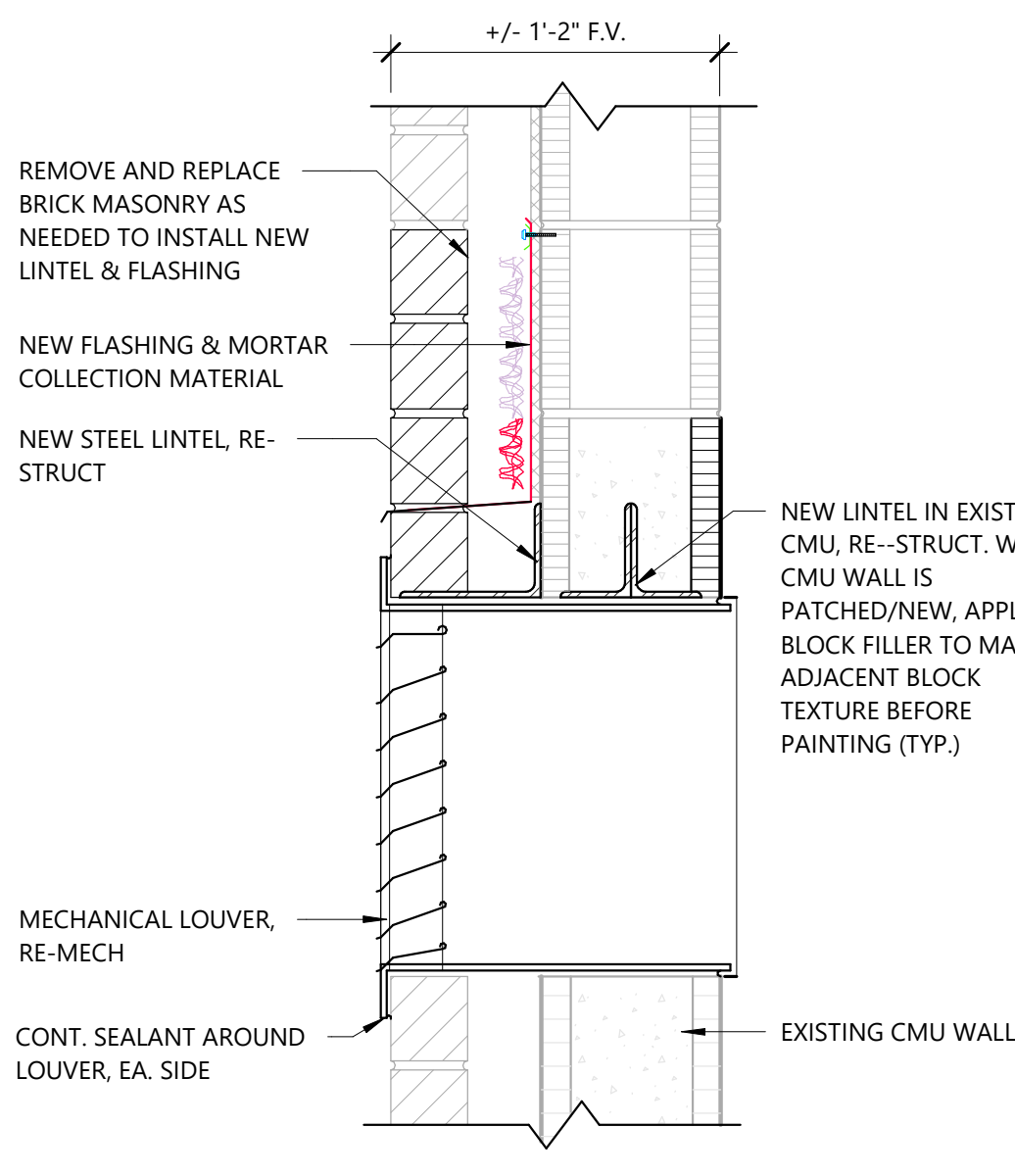
1.	CONTINUOUS HINGE, CYLINDER, PANIC DEVICE W/ RETRACTABLE LATCH, CLOSER, SECURITY ACCESS SYSTEM, THRESHOLD, WEATHERSTRIPPING, FLOOR STOP, DOOR SHOE, KICK PLATE, LATCH/LOCK GUARD, DRIP CAP
2.	CONTINUOUS HINGE, CYLINDER, PANIC DEVICE, THRESHOLD, WEATHERSTRIPPING, FLOOR STOP, DOOR SHOE, KICKPLATE, LATCH/LOCK GUARD, DRIP CAP, REINSTALL EXISTING CLOSER

Door Schedule

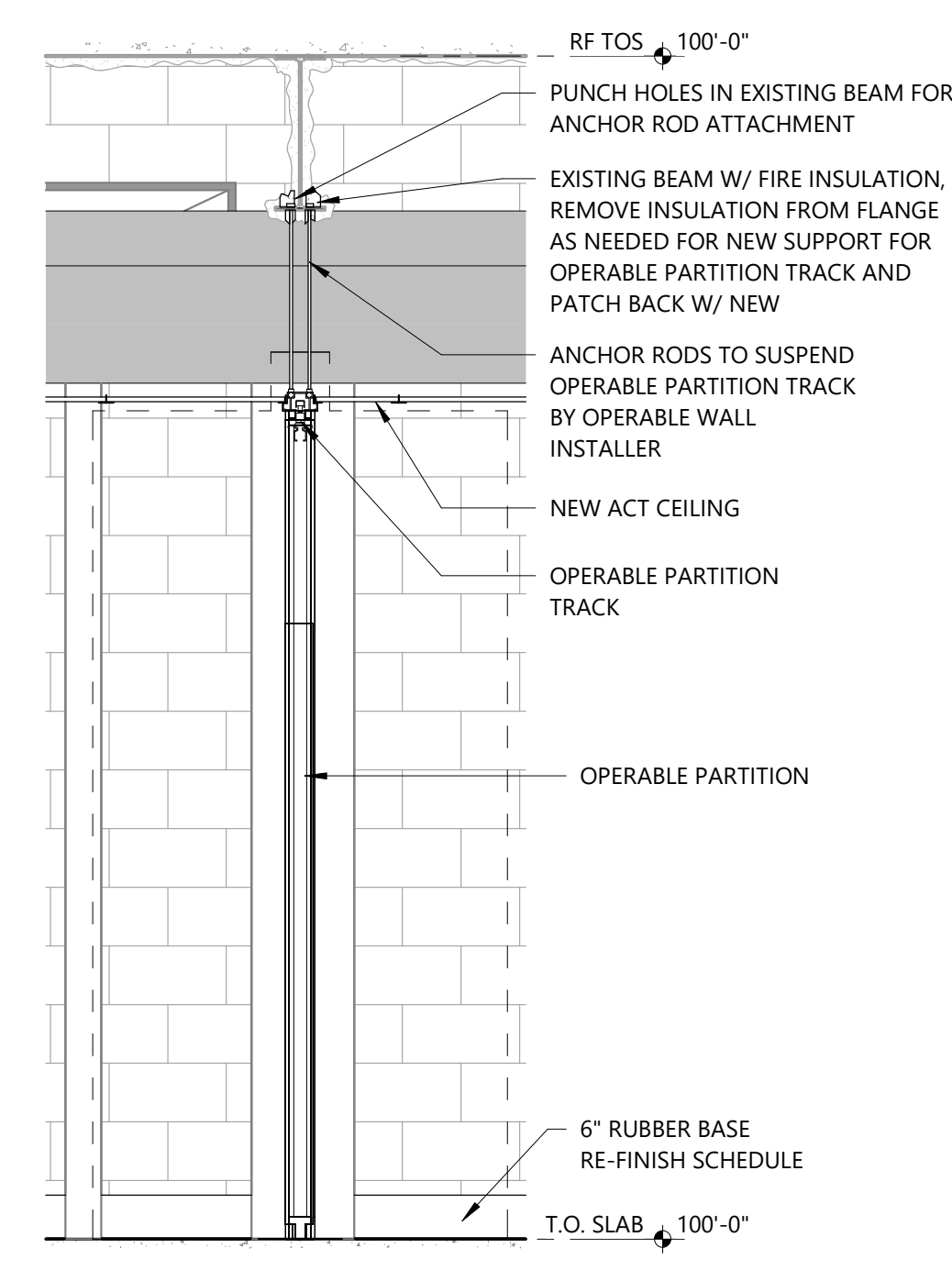
MARK	DETAILS			NOTES
	HEAD	JAMB	SILL	
1502A	A10	A7	A3	
1511	---	---	---	NEW DOOR & FRAME IN EXISTING OPENING, MATCH EXISTING LOCATION & FRAME WIDTH



D5 Louver Penetration Detail
1 1/2" = 1'-0" Ref: A4/ A2.1



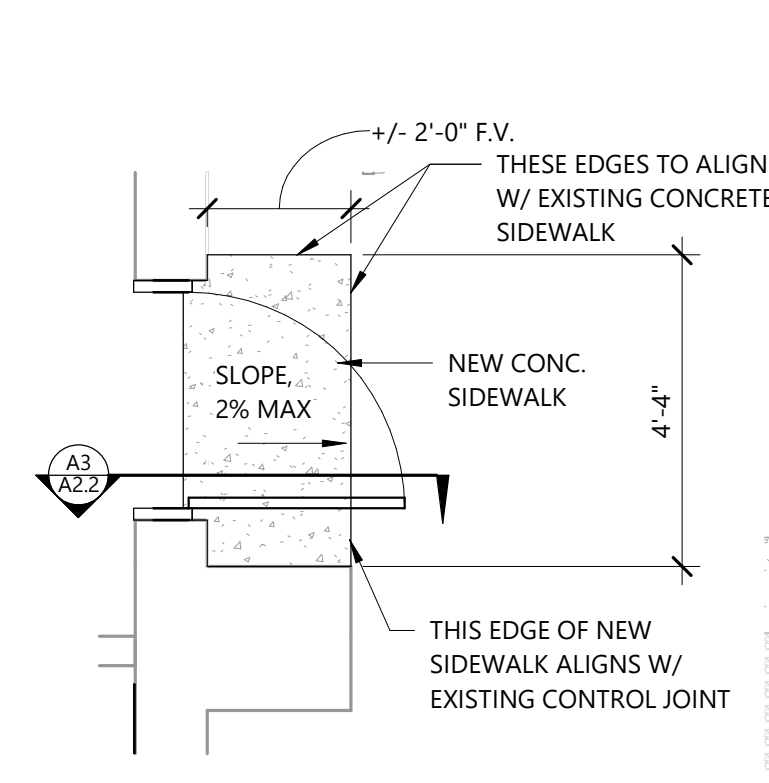
D8 Louver Penetration Detail
1 1/2" = 1'-0" Ref: A13/ A2.2



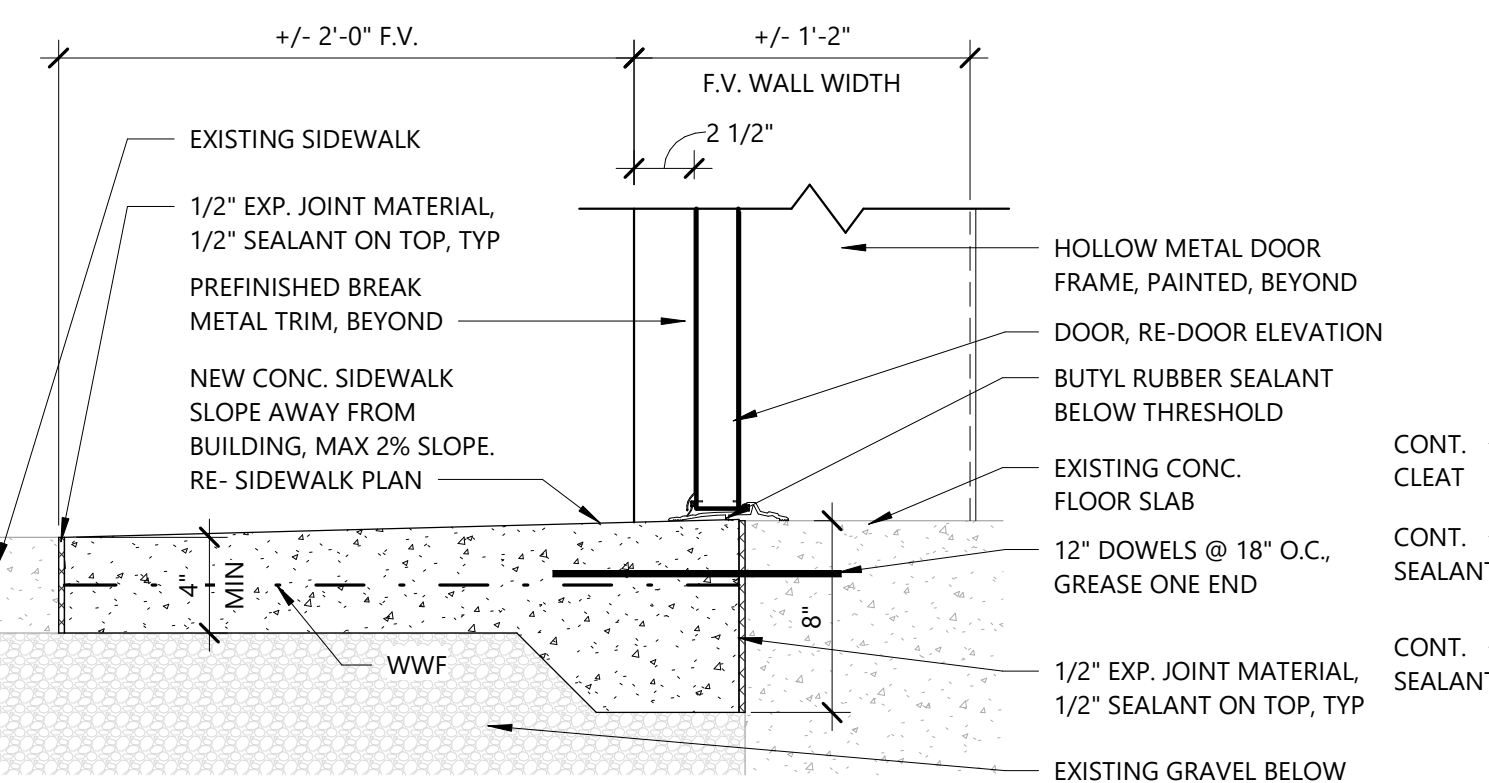
D11 Operable Partition Section
1/2" = 1'-0" Ref: A4/ A2.1



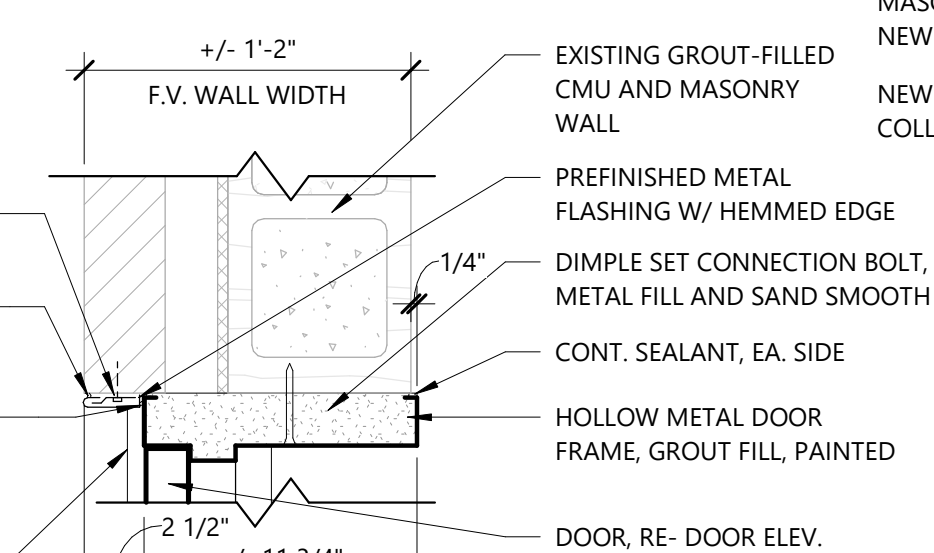
D14 Rubber Playground Detail
12" = 1'-0" Ref: F6/ A2.1



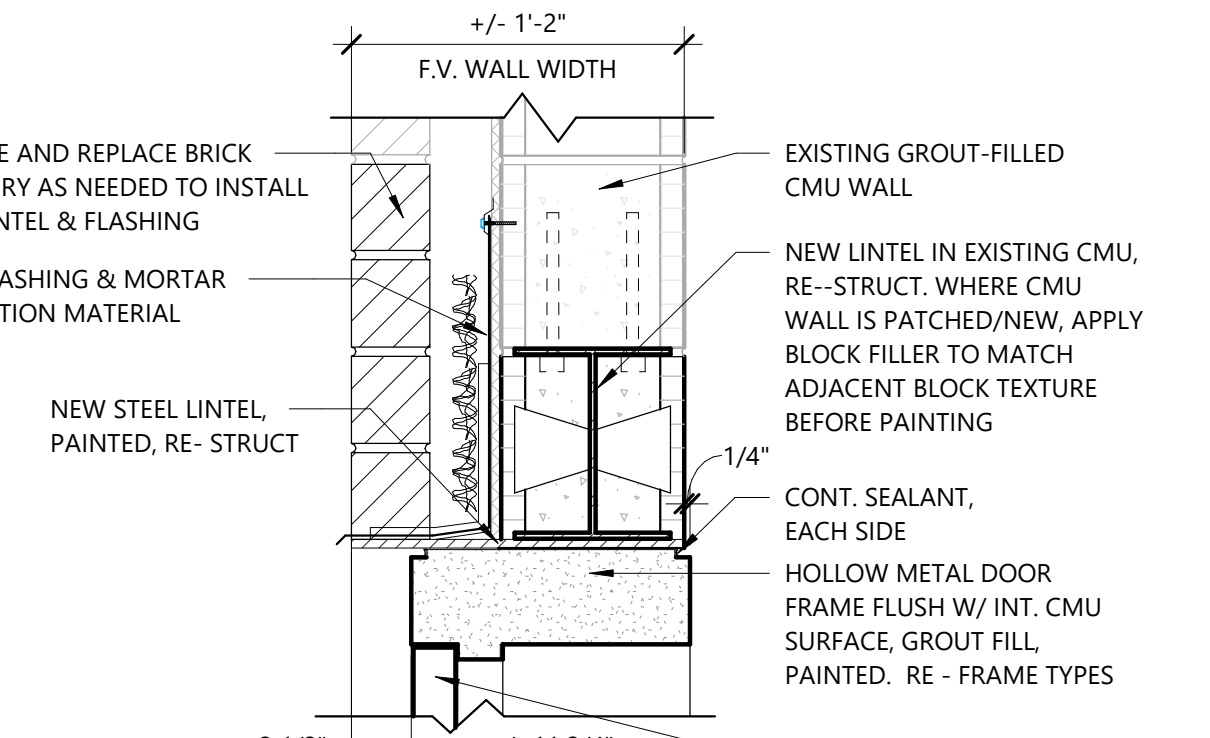
A1 Enlarged Sidewalk Plan
3/8" = 1'-0"



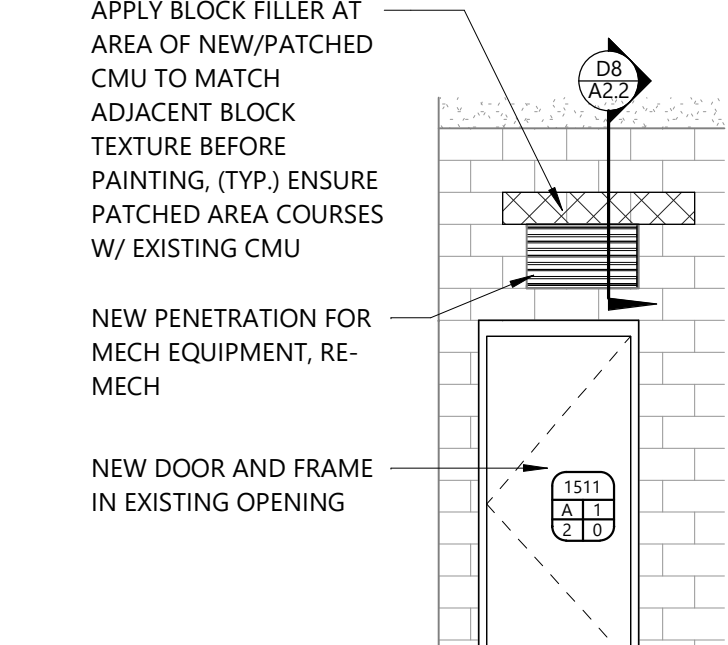
A3 Sill Detail
1 1/2" = 1'-0" Ref: A1/ A2.2



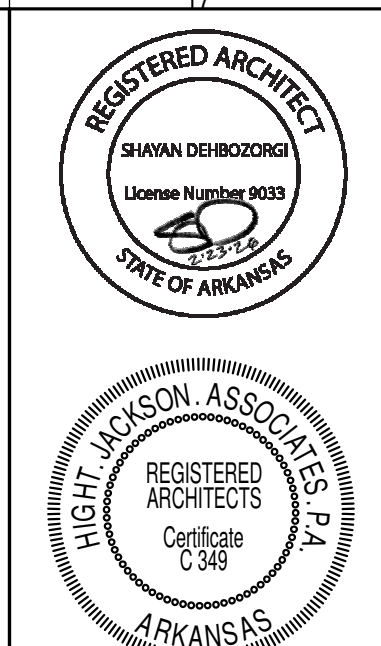
A7 Jamb Detail
1 1/2" = 1'-0"



A10 Head Detail
1 1/2" = 1'-0"



A13 Ag Lab Interior Elevation
1/4" = 1'-0" Ref: A1/ A2.1



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NOTES, DETAILS
SHEET
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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.
- Welded wire fabric shall conform to ASTM A1064. Provide mesh in flat sheets.
- Wire fabric reinforcing shall lap 6" and be securely wired at each side and end.
- All concrete slab-on-grade shall have a 5" maximum slump.
- All reinforcing steel shall be deformed bars conforming to ASTM A615, Grade 60.
- Plate dowel system shall be Diamond Dowel System by PNA Construction Technologies, the Speed Plate System by SIKA Corp. or approved equal. Install plate dowels at slab construction joints at 18" o.c.
- Smooth dowels shall be steel conforming to ASTM A36.
- 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 Hilli, AT 3G by Simpson Strong-Tie or AC200+ by Dewart, unless noted otherwise.

Structural Steel General Notes 5100:

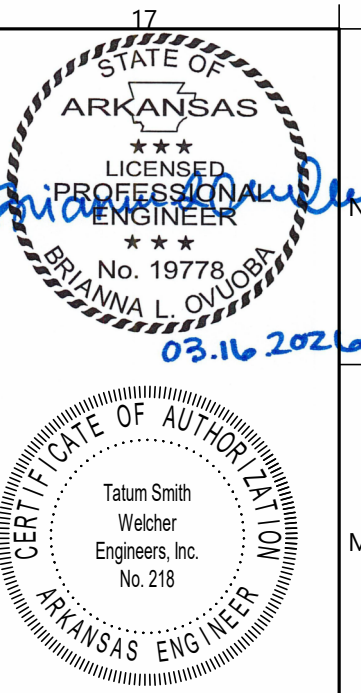
- All detailing, fabrication and erection of structural steel shall conform to the requirements of the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings.
- Wide flanges and WT tees shall conform to ASTM A992 with a yield strength of 50 ksi.
- All other structural steel shall conform to the requirements of ASTM A36. Angle, plate and beam lintels at exterior wall openings shall be hot-dipped galvanized.

Design Loads

- Typical Roof Dead Load: 20 psf (Presumed)
- Roof Live Load: 20 psf
- Typical Elevated Floor Dead Load: 60 psf (Presumed)
- Typical Elevated Floor Live Load: 40 psf
- Rain Intensity, (15 min.): 6.52 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}): 89.08 mph
 - Risk Category III
 - Wind Exposure B
 - Internal Pressure Coefficient, GC_{pi} = ±0.18
- Components & Cladding Wind Load (Unfactored):
 - Width of Edge Zone, a = 8.8 ft
 - Wall Pressures (10 ft²)
 - End Zone Wall = 29.0 psf
 - Interior Zone = 23.6 psf
 - Wall Pressures (100 ft²)
 - End Zone Wall = 22.6 psf
 - Interior Zone = 20.4 psf
 - Roof Pressures (10 ft²)
 - Corner Zone = 68.1 psf
 - Eave & Rake Zone = 50.0 psf
 - Interior Zone = 37.9 psf
 - Roof Pressures (100 ft²)
 - Corner Zone = 46.8 psf
 - Eave & Rake Zone = 39.3 psf
 - Interior Zone = 29.6 psf
- Seismic:
 - Risk Category III
 - Seismic Importance Factor (I_s) = 1.25
 - S_s = 0.154
 - S₁ = 0.089
 - S_{0.1} = 0.164
 - S_{0.2} = 0.143
 - Site Class D (presumed per IBC Sec. 1613.3.2)
 - Seismic Design Category C
- Building Code:
 - 2021 Arkansas Fire Prevention Code, Volume II
 - 2021 International Building Code

TYPICAL STRUCTURAL ABBREVIATIONS

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

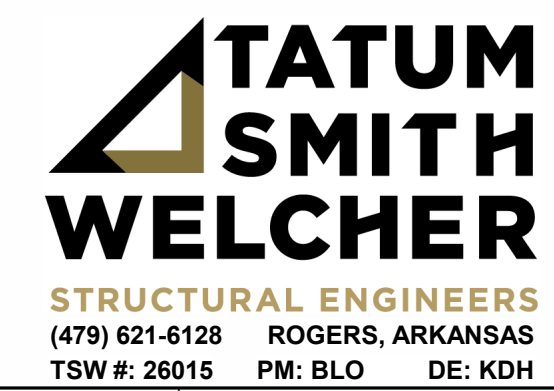


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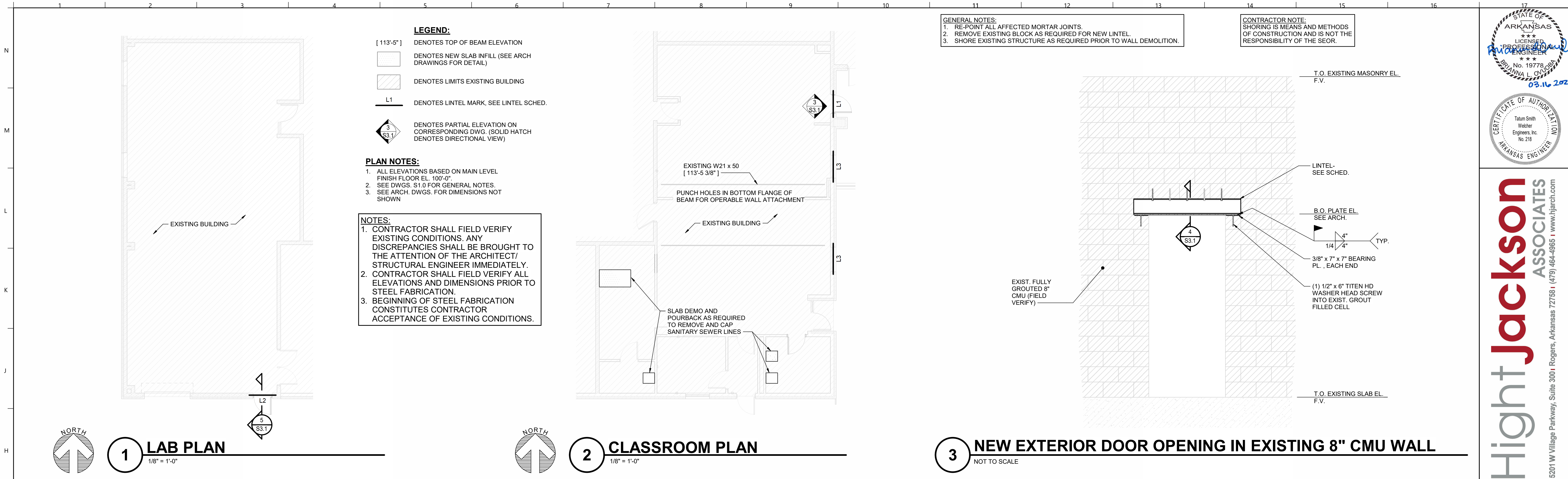
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REQUIRED IBC SPECIAL INSPECTIONS
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GENERAL NOTES:
 1. RE-POINT ALL AFFECTED MORTAR JOINTS.
 2. REMOVE EXISTING BLOCK AS REQUIRED FOR NEW LINTEL.
 3. SHORE EXISTING STRUCTURE AS REQUIRED PRIOR TO WALL DEMOLITION.

CONTRACTOR NOTE:
 SHORING IS MEANS AND METHODS OF CONSTRUCTION AND IS NOT THE RESPONSIBILITY OF THE SEOR.

- LEGEND:**
- [113'-5"] DENOTES TOP OF BEAM ELEVATION
 - [Hatched Box] DENOTES NEW SLAB INFILL (SEE ARCH DRAWINGS FOR DETAIL)
 - [Hatched Box] DENOTES LIMITS EXISTING BUILDING
 - L1 DENOTES LINTEL MARK, SEE LINTEL SCHED.
 - [Diamond with 3 S3.1] DENOTES PARTIAL ELEVATION ON CORRESPONDING DWG. (SOLID HATCH DENOTES DIRECTIONAL VIEW)

- PLAN NOTES:**
1. ALL ELEVATIONS BASED ON MAIN LEVEL FINISH FLOOR EL. 100'-0".
 2. SEE DWGS. S1.0 FOR GENERAL NOTES.
 3. SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN

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

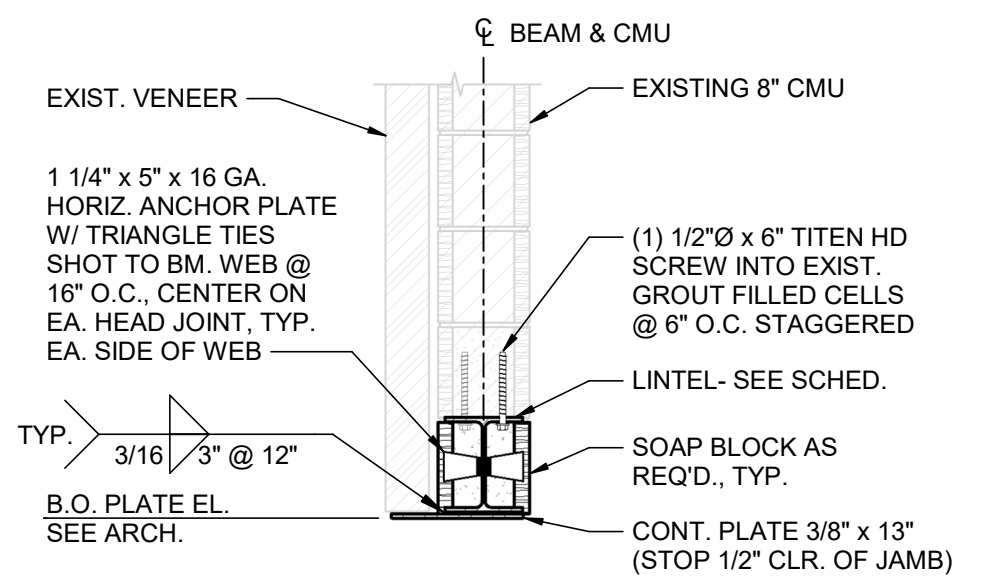
1 LAB PLAN
 1/8" = 1'-0"

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

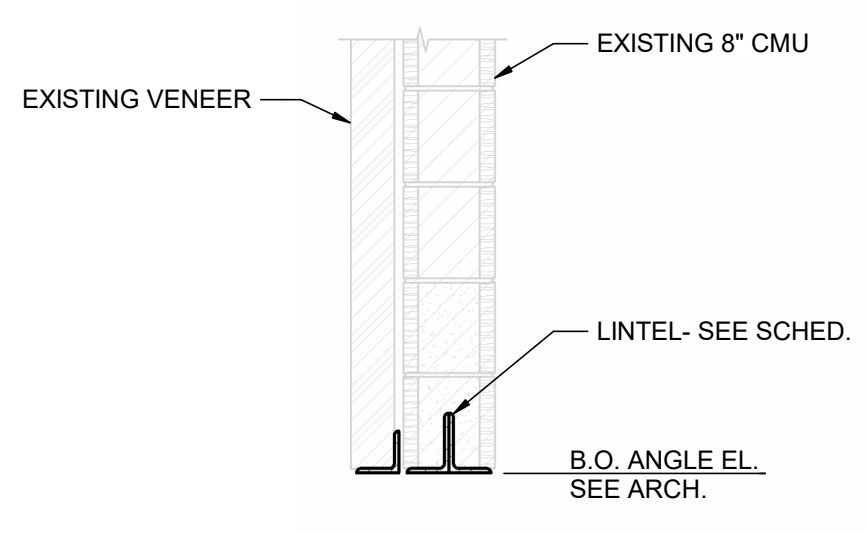
3 NEW EXTERIOR DOOR OPENING IN EXISTING 8" CMU WALL
 NOT TO SCALE

LINTEL SCHEDULE					
MARK	WALL LOCATIONS	TYPE & SIZE (THICKNESS x HEIGHT)	REINFORCEMENT OR ATTACHMENT	BRICK ANGLE OR PLATES	REMARKS
L1	EXIST. 8" CMU	W8 x 18	----	----	SEE NOTES #1, #2, #3 & DTL #4
L2	EXIST 8" CMU	DBL. L5 x 3 1/2 x 3/8 (LLV)	----	L6 x 3 1/2 x 3/8 (LLV)	SEE NOTES #1, #2, #3 & DTL #5
L3	EXIST 6" STUD WALL	----	----	L5 x 3 1/2 x 3/8 (LLV)	SEE NOTES #1, #2 & #3

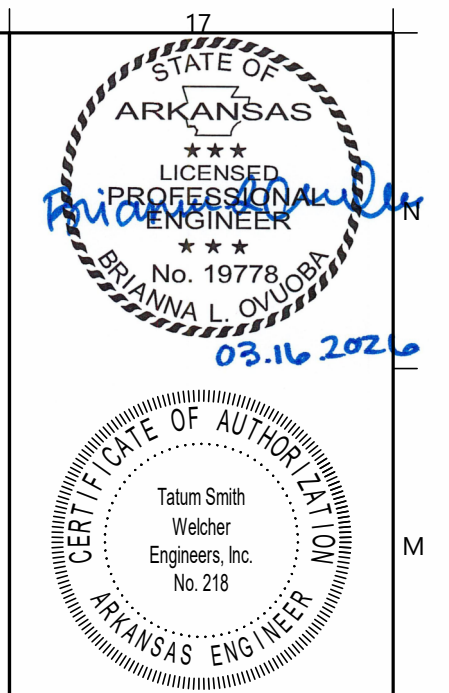
- LINTEL SCHEDULE NOTES:**
1. SEE ARCH. FOR EXACT LOCATION OF ALL LINTELS.
 2. COORDINATE ALL BOTTOM ANGLE ELEVATIONS WITH ARCH.
 3. BRICK LINTELS SHALL HAVE 6" MIN. BEARING EA. SIDE OF OPENING.



4 LINTEL DTL.
 3/4" = 1'-0"



5 LINTEL DTL.
 NOT TO SCALE



Hight Jackson ASSOCIATES
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TATUM SMITH WELCHER
 STRUCTURAL ENGINEERS
 (479) 621-6128 ROGERS, ARKANSAS
 TSW #: 26015 PM: BLO DE: KDH

FRAMING PLANS
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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 01 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 SEAL SLEEVE 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, APPURTENANCES, 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.
- 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 BENTONVILLE 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 ASSEMBLIES 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.
- MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION PLUMBING SITE UTILITIES WITH SITE WORK OF OTHER TRADES. IN INSTANCES WHERE COORDINATION REQUIRES PLANS MECHANICAL CONTRACTOR SHALL NOTIFY ENGINEER OF PROPOSED CHANGES.
- 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 B74-94.

PLUMBING LEGEND

	SANITARY WASTE PIPING
	EXISTING SANITARY WASTE PIPING
	VENT PIPING
	EXISTING VENT PIPING
	COLD WATER PIPING
	EXISTING COLD WATER PIPING
	HOT WATER PIPING
	EXISTING HOT WATER PIPING
	PIPING TO BE REMOVED
	BALL VALVE
	CHECK VALVE
	CONNECTION POINT
	FIXTURES TO BE REMOVED
	REFER TO KEYED NOTES
	PLUMBING FIXTURE NUMBER (REFER TO PLUMBING FIXTURE SCHEDULE)
	ACCESSIBLE
	SANITARY SEWER

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	CONNECTION			REMARKS / ACCESSORIES	
					C/W	H/W	SS		
P-1	ACCESSIBLE MULTI-USER STAINLESS STEEL SINK	JUST MFG.	J-ADA-6020	WALL	1/2	1/2	2	SINGLE COMPARTMENT (5'1" x 16.5" x 6.5" I.D.) WALL HUNG MULTI-STATION STAINLESS STEEL SINK WITH 10 INCH BACKSPASH AND CENTER DRAIN LOCATION. PROVIDE WITH QUANTITY THREE (3) JUST MFG. J5048-TA BACKSPASH MOUNTED FAUCETS AND JUST J-35 GRID DRAIN WITH CRUMB CUP STRAINER. TWO (2) FAUCETS SHALL HAVE HOT AND COLD WATER SUPPLY. THE FAUCET THAT HAS P-3 INSTALLED ON IT SHALL ONLY PROVIDE COLD WATER. CONFIRM WATER SUPPLIES AS REQUIRED. PROVIDE ALL REQUIRED INSTALLATION HARDWARE INCLUDING WALL ANCHORS AND FASTENERS. PROVIDE APPROPRIATE QUANTITY OF MATTS LFUS6 THERMOSTATIC MIXING VALVES. SET WATER TEMPERATURE TO 105 DEGREES F. PROVIDE HANDILAV MOLDED PIPE INSULATION KIT. MOUNT 34 INCHES A.F.F. TO TOP OF RIM.	
P-2	ACCESSIBLE STAINLESS STEEL SINK	JUST MFG.	SL_2125_A_6R	COUNTER	1/2	1/2	2	SINGLE COMPARTMENT STAINLESS STEEL SINK (21" x 15-3/4" x 5-3/8" I.D.) PROVIDE JUST J-1174-KS GOOSENECK FAUCET WITH WRIST BLADES AND JUST J-35 DRAIN WITH CRUMB CUP STRAINER. PROVIDE MATTS LFUS6 THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE TO 105 DEGREES F. PROVIDE HANDILAV MOLDED PIPE KIT. MOUNT 34 INCHES A.F.F. TO TOP OF RIM.	
P-3	BACKSPASH MOUNTED EYEWASH	BRADLEY	S19-274HWB	BACKSPASH	1/2	1/2	-	SWING DOWN BACKSPASH MOUNTED ADA HALO EYE WASH. CHROME PLATED BRASS CONSTRUCTION. PROVIDE BRADLEY MODEL S19-2000 NAVIGATOR EFX8 THERMOSTATIC MIXING VALVE. CONNECT MIXING VALVE SUPPLIES TO SINK HOT WATER AND COLD WATER SUPPLIES. FIXTURE MUST SUPPLY TEPID WATER (BETWEEN 60 DEGREES F AND 100 DEGREES F) PER ANSI Z350.1-2014.	
P-4	STAINLESS STEEL LAUNDRY SINK	JUST MFG.	J127-95-J	FLOOR	1/2	1/2	2	STAINLESS STEEL TUB SINK WITH REAR CENTER DRAIN LOCATION AND QUANTITY FOUR (4) STAINLESS STEEL TUBULAR LEGS WITH FULLY ENCLOSED GUSSETS AND ADJUSTABLE BULLETT FEET. PROVIDE ONE (1) ELKAY MODEL LK943F098LG CHROME PLATED BRASS WALL MOUNTED FAUCET WITH 44 INCH FLEXIBLE HOSE AND 9 INCH ARC TUBE SPOUT, 2 INCH LEVER HANDLES, SPOUT SWING RESTRICTION PIN, AND WALL BRACKET SUPPORT. PROVIDE WITH MANUFACTURER'S MATCHING DRAIN AS REQUIRED. MECHANICAL CONTRACTOR TO PROVIDE ALL MATERIALS REQUIRED TO MAKE FINAL CONNECTIONS, INCLUDING TAIL PIECE AND ANGLE STOP VALVES. PROVIDE MATTS LFUS6 THERMOSTATIC MIXING VALVE.	
P-5	DOG WASH STATION	EXISTING	EXISTING	FLOOR	3/4	3/4	2	EXISTING DOG WASH STATION TO BE INSTALLED AT THIS NEW LOCATION. VERIFY EXISTING EQUIPMENT AS REQUIRED. MECHANICAL CONTRACTOR TO PROVIDE ALL MATERIALS REQUIRED TO MAKE FINAL CONNECTIONS.	
P-6	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 FULL GRATE AND DEEP SEAL TRAP.	
P-7	BARRIER FREE EMERGENCY SHOWER AND EYE/FACE WASH	HAMS	8309WC	WALL	3/4	3/4	2	BARRIER FREE EMERGENCY SHOWER AND EYE/FACE WAS COMBINATION UNIT. PROVIDE WITH ABS PLASTIC DRENCH SHOWER HEAD WITH 20 GPM FLOW CONTROL, CHROME PLATED BRASS STAY-OPEN VALVE WITH STAINLESS STEEL ACTUATING ARM AND 5/8" STAINLESS STEEL PULL ROD. PROVIDE WITH EYE/FACE WASH HEAD WITH INVERTED DIRECTIONAL LAMINAR FLOW SUPPLIED WITH 3.7 GPM INTEGRAL FLOW CONTROL. PROVIDE WITH HAMS MODEL 9201E AXION EMERGENCY TEMPERING THERMOSTATIC MIXING VALVE. THERMOSTATIC MIXING VALVE MUST BE SET TO PROVIDE TEPID (BETWEEN 60 DEGREES F AND 100 DEGREES F) WATER SUPPLY PER ANSI Z350.1-2014. FIXTURE MUST BE BARRIER FREE. PROVIDE WITH MANUFACTURER'S FLOOR FLANGE, YELLOW PLASTIC POP-OFF DUST COVER FOR EYEWASH HEAD, SELF-ADHESIVE HIGH VISIBILITY SAFETY GREEN AND YELLOW STRIPES AND UNIVERSAL SIGN. FIXTURE MUST SUPPLY TEPID WATER (BETWEEN 60 DEGREES F AND 100 DEGREES F) PER ANSI Z350.1-2014.	
P-8	POINT OF USE SOLIDS INTERCEPTOR	STRIEM	SIDEKICK	ACCESSIBLE LOCATION	-	-	2	UNDER SINK, SIDE ACCESS, INJECTION MOLDED PVC SOLIDS INTERCEPTOR WITH POLYCARBONATE PERFORATED BASKET WITH O-RING. MAX FLOW RATE 23 GPM. SOLIDS CAPACITY 0.11 GALLONS. INSTALL PROVIDED OUTLET PLUGS IN UNUSED OUTLET OPTIONS. INSTALL PER MANUFACTURER'S DIRECTIONS. ENSURE THAT SIDE-ACCESS FOR MAINTENANCE AND CLEAR VISIBILITY ARE PROVIDED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIXTURE MAY BE INSTALLED IN AN OFFSET MANNER IF NECESSARY FOR P-TRAP CLEARANCE.	
P-9	ACCESSIBLE STAINLESS STEEL SINK	JUST MFG.	SL_2125_A_6R	COUNTER	1/2	1/2	2	ACCESSIBLE SINGLE COMPARTMENT STAINLESS STEEL SINK (21" x 15-3/4" x 5-3/8" I.D.) PROVIDE JUST J-1174-KS GOOSENECK FAUCET WITH WRIST BLADES AND JUST J-35 DRAIN WITH CRUMB CUP STRAINER.	
P-10	DECK MOUNTED EYE WASH	BRADLEY	S19274HD	COUNTER	1/2	1/2	-	SWING DOWN, DECK MOUNTED HALO EYE WASH. CHROME PLATED BRASS CONSTRUCTION. PROVIDE BRADLEY MODEL S19-2000 NAVIGATOR EFX8 THERMOSTATIC MIXING VALVE. CONNECT MIXING VALVE SUPPLIES TO SINK HOT AND COLD WATER SUPPLIES. FIXTURE MUST SUPPLY TEPID WATER (BETWEEN 60 DEGREES F AND 100 DEGREES F) PER ANSI Z350.1-2014.	

- NOTES:
1. COORDINATE COUNTER TOP FIXTURE INSTALLATION WITH MILLWORK.

NOTES:
RE:P.2.1 FOR PLUMBING PLANS. RE:P.3.1 FOR PLUMBING DETAILS.

HSA Engineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 26-004



Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72761 | (479) 464-4965 | www.hjarch.com

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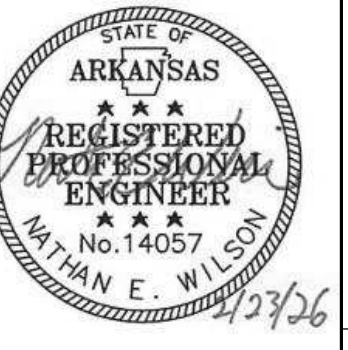
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PLUMBING NOTES,
LEGEND & SCHEDULE

S H E E T

P1.1

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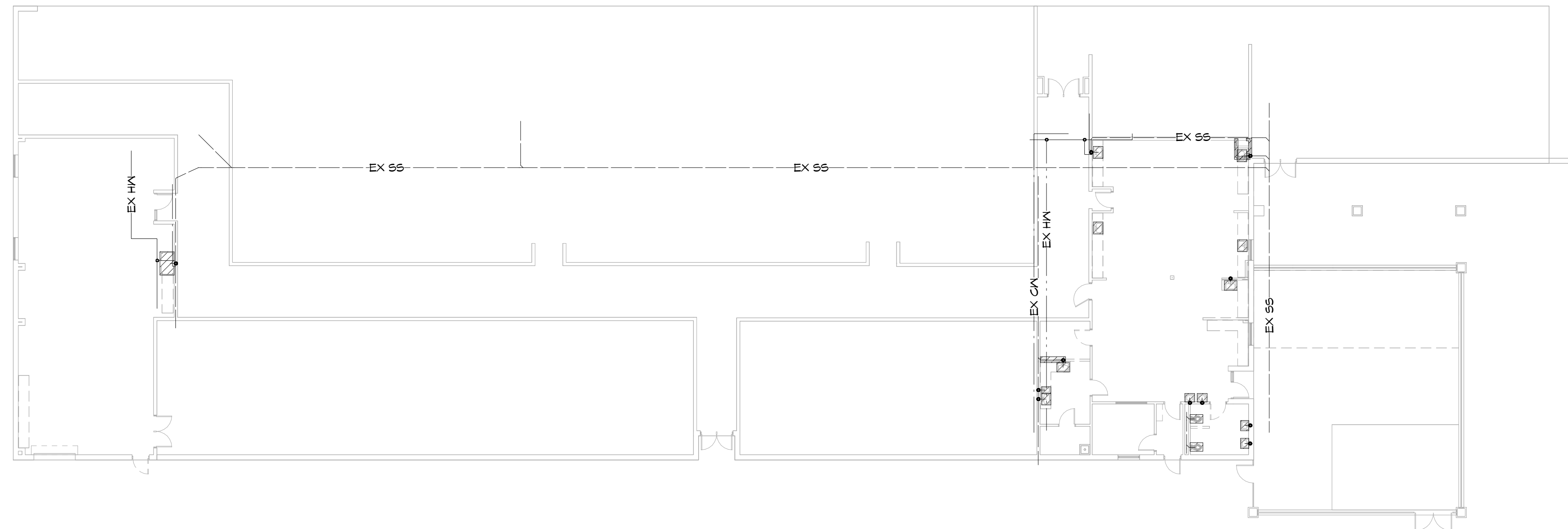
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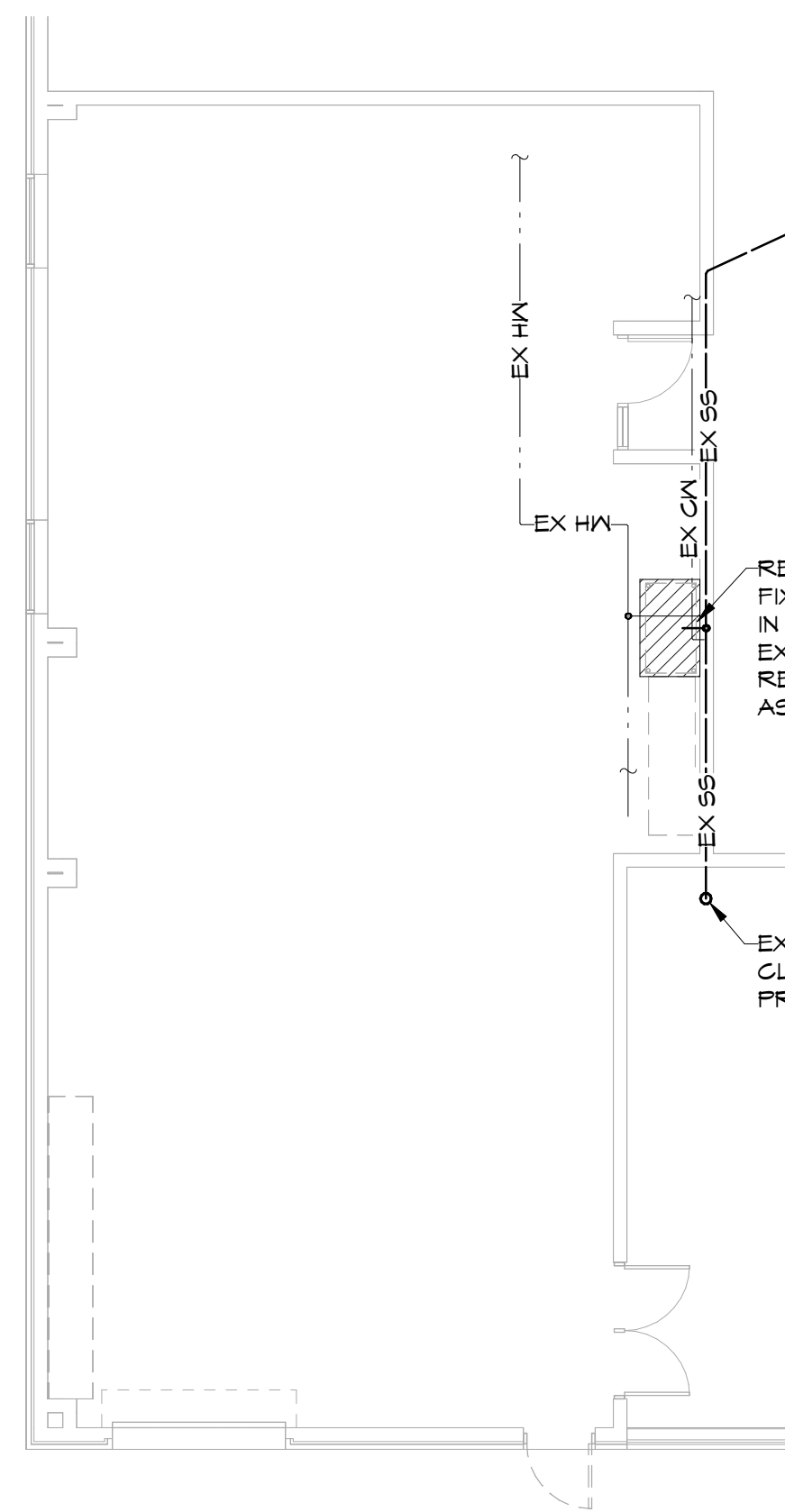
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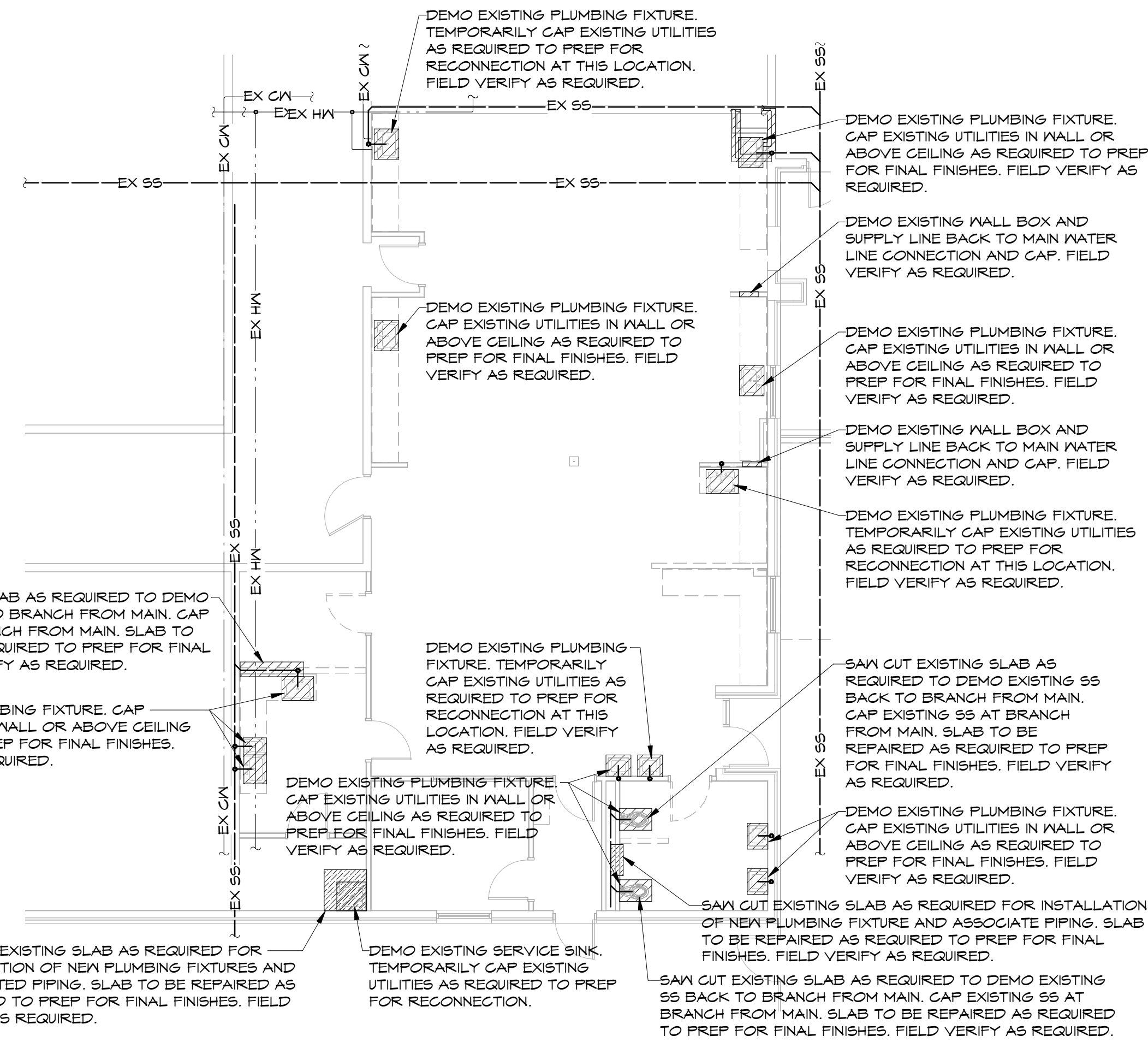
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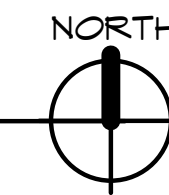
1 OVERALL PLUMBING DEMOLITION PLAN
1/16" = 1'-0"



2 PLUMBING DEMOLITION PLAN - AREA A
1/8" = 1'-0"



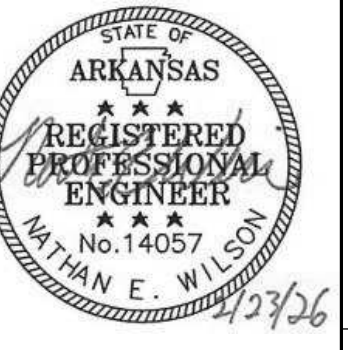
3 PLUMBING DEMOLITION PLAN - AREA B
1/8" = 1'-0"



NOTES:
RE:P.1.1 FOR PLUMBING LEGEND, NOTES,
& PLUMBING SCHEDULE. RE:P.3.1 FOR
PLUMBING DETAILS.

HSA HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

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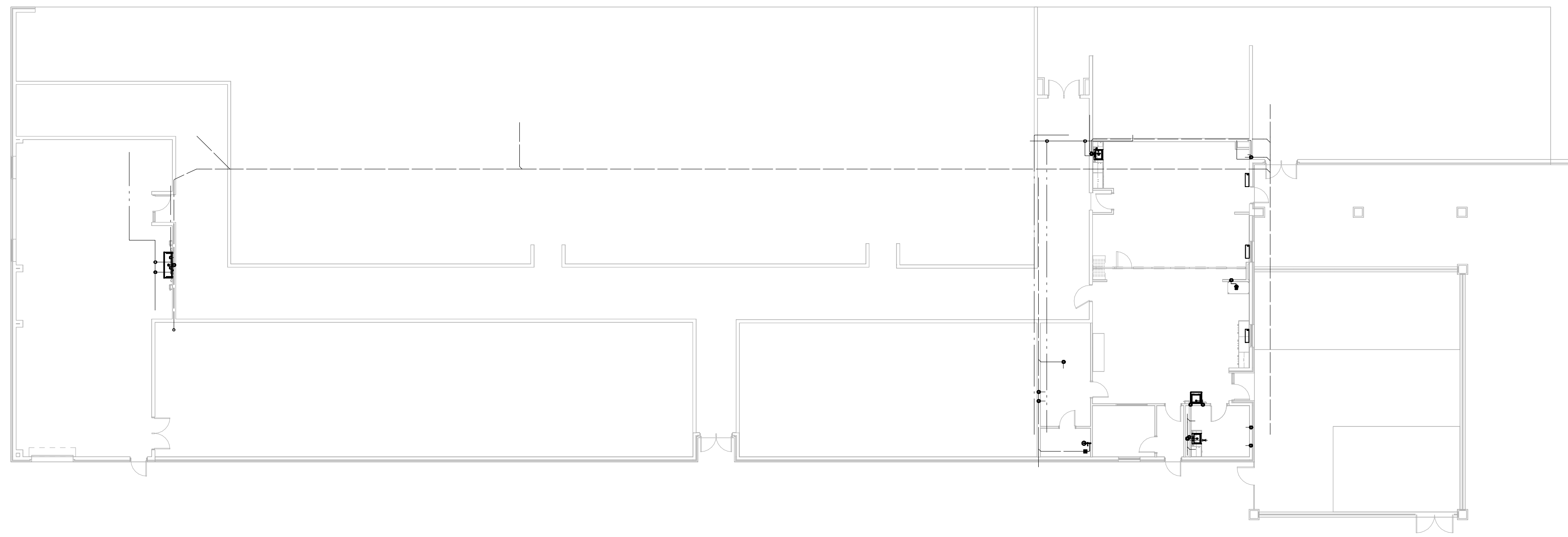
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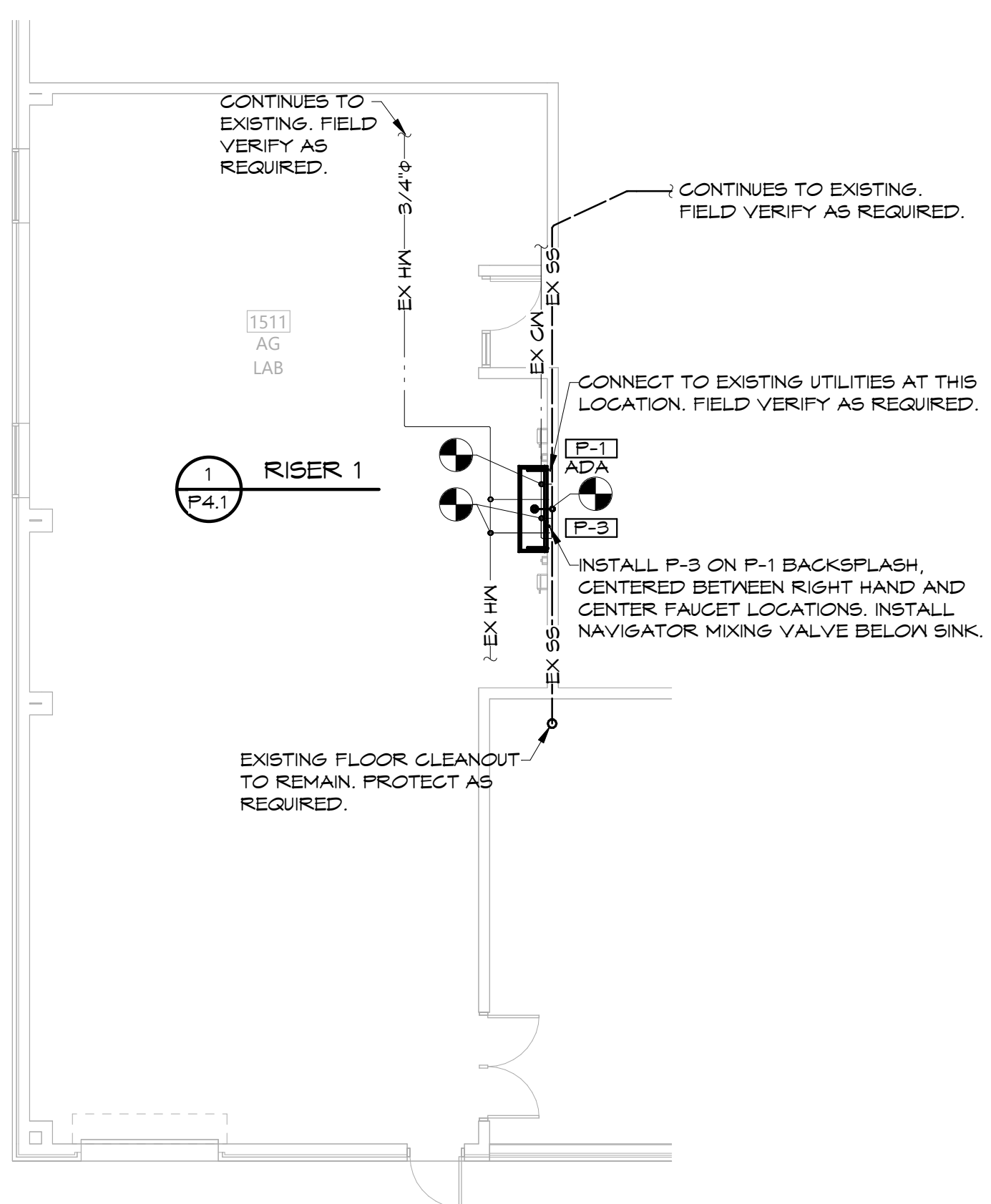
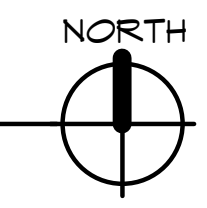
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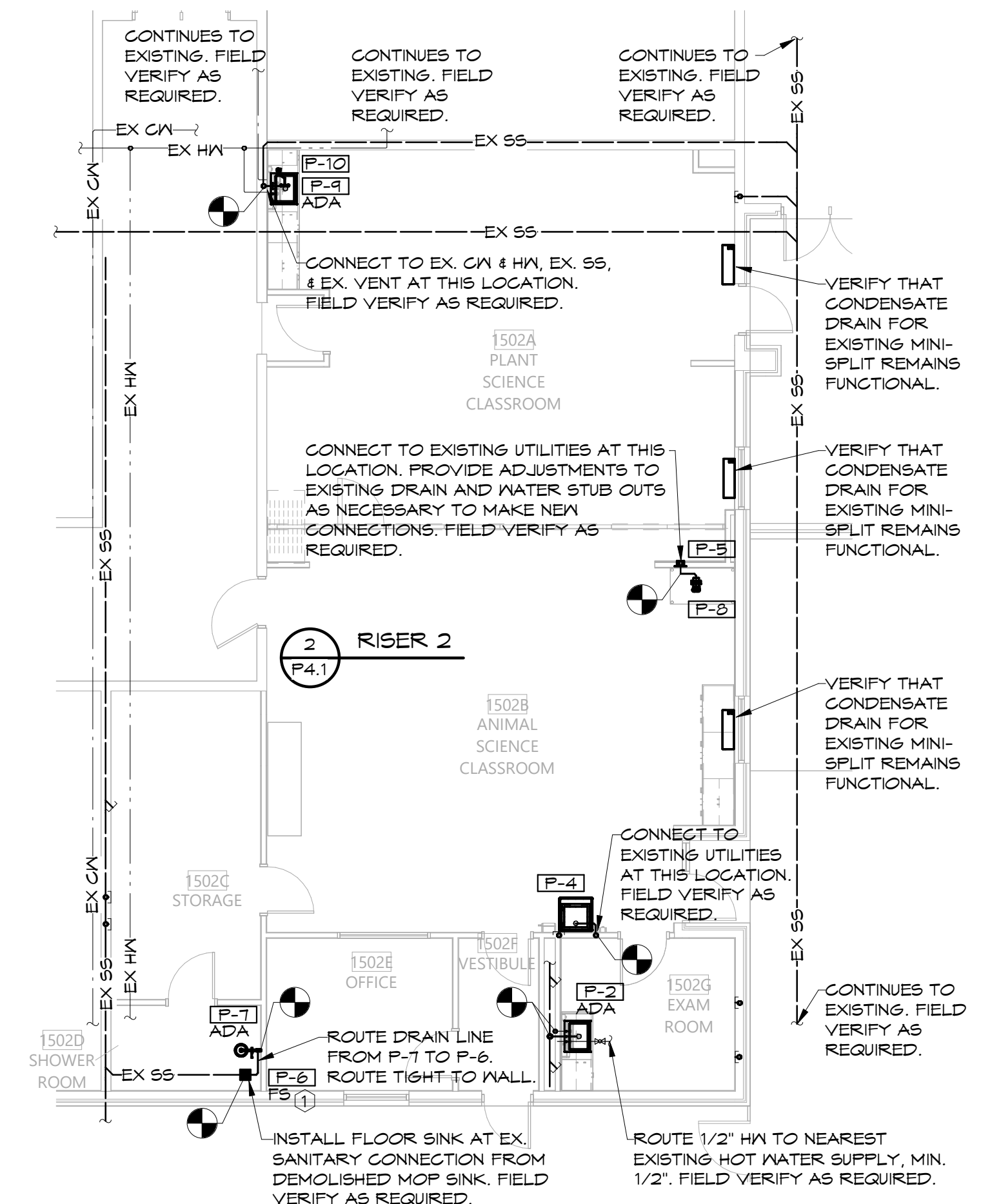
PLUMBING PLANS
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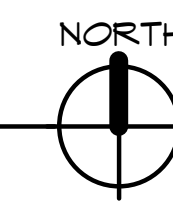
1 OVERALL PLUMBING PLAN
1/16" = 1'-0"



2 PLUMBING PLAN - AREA A
1/8" = 1'-0"



3 PLUMBING PLAN - AREA B
1/8" = 1'-0"

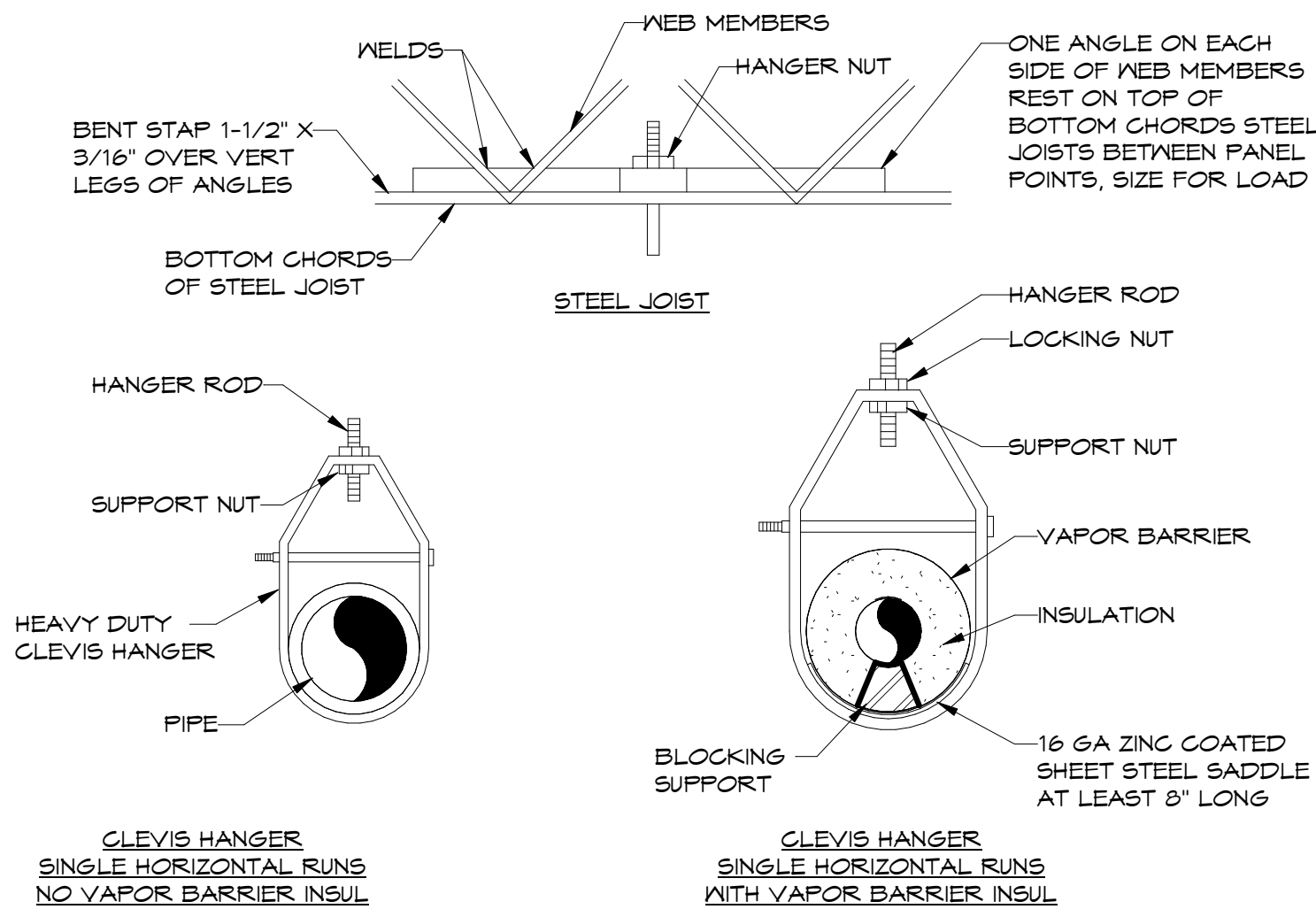


NOTES:
RE:P1.1 FOR PLUMBING LEGEND, NOTES,
& PLUMBING SCHEDULE. RE:P3.1 FOR
PLUMBING DETAILS.

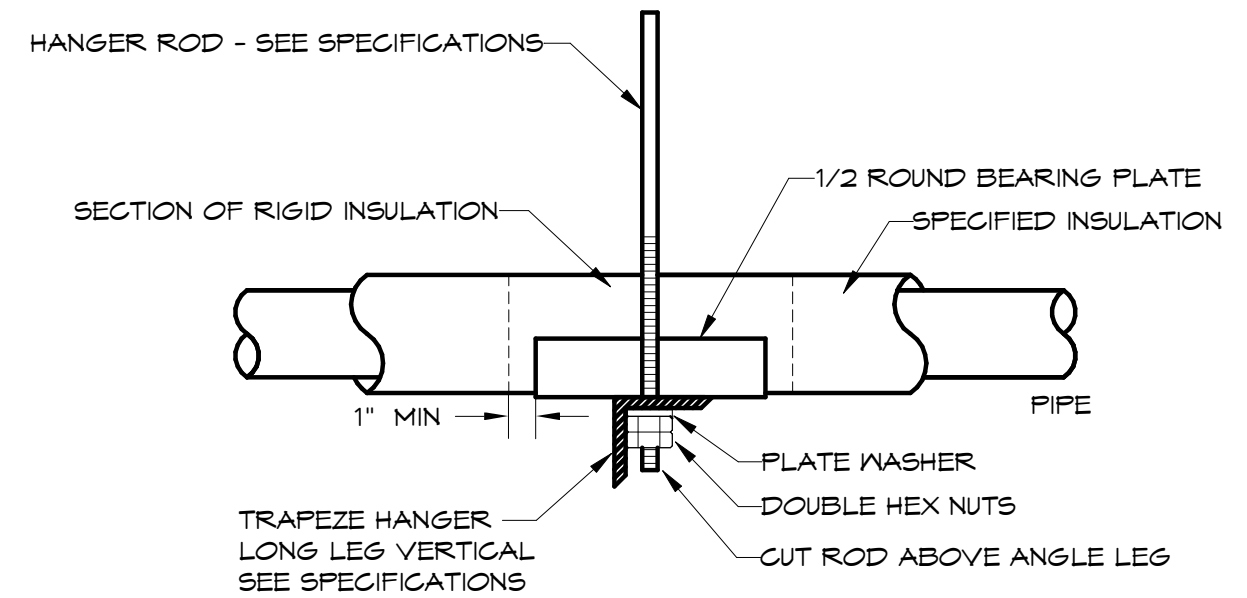
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HSA JOB # 26-004

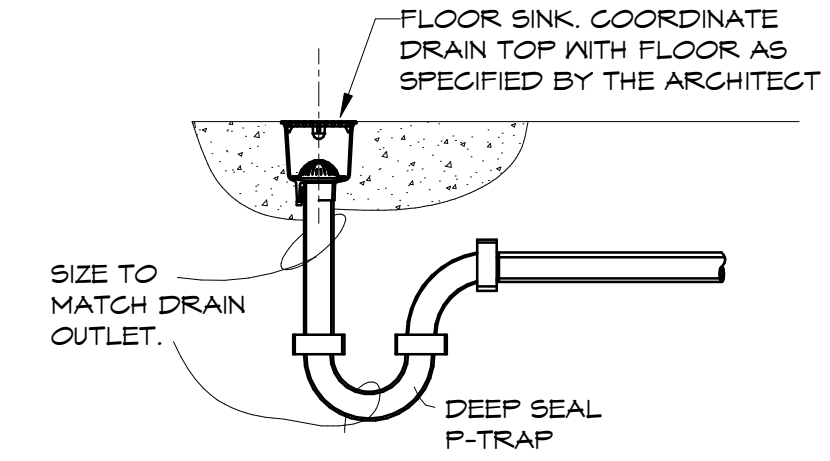
HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	1/4" DIA	8" THRU 12"	1/2" DIA
2 1/2" UP TO 6"	3/8" DIA		



① TYPICAL PIPE HANGER DETAIL-CLEVIS HANGER
NTS



② TYPICAL PIPE HANGER DETAIL-TRAPEZE
NTS



③ FLOOR SINK DETAIL
NTS



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A REMODEL FOR
BHS ANIMAL & PLANT SCIENCE
BENTONVILLE, AR

DRAWN BY:
AH
CHECK BY:
NEW
ISSUE DATE:
2/23/2026

PROJECT NO:
2540

REVISION DATES:
3/16/2026

PLUMBING DETAILS
SHEET
P3.1

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NOTES:
RE.P1.1 FOR PLUMBING LEGEND, NOTES, & PLUMBING
SCHEDULE. RE.P2.1 FOR PLUMBING PLANS.

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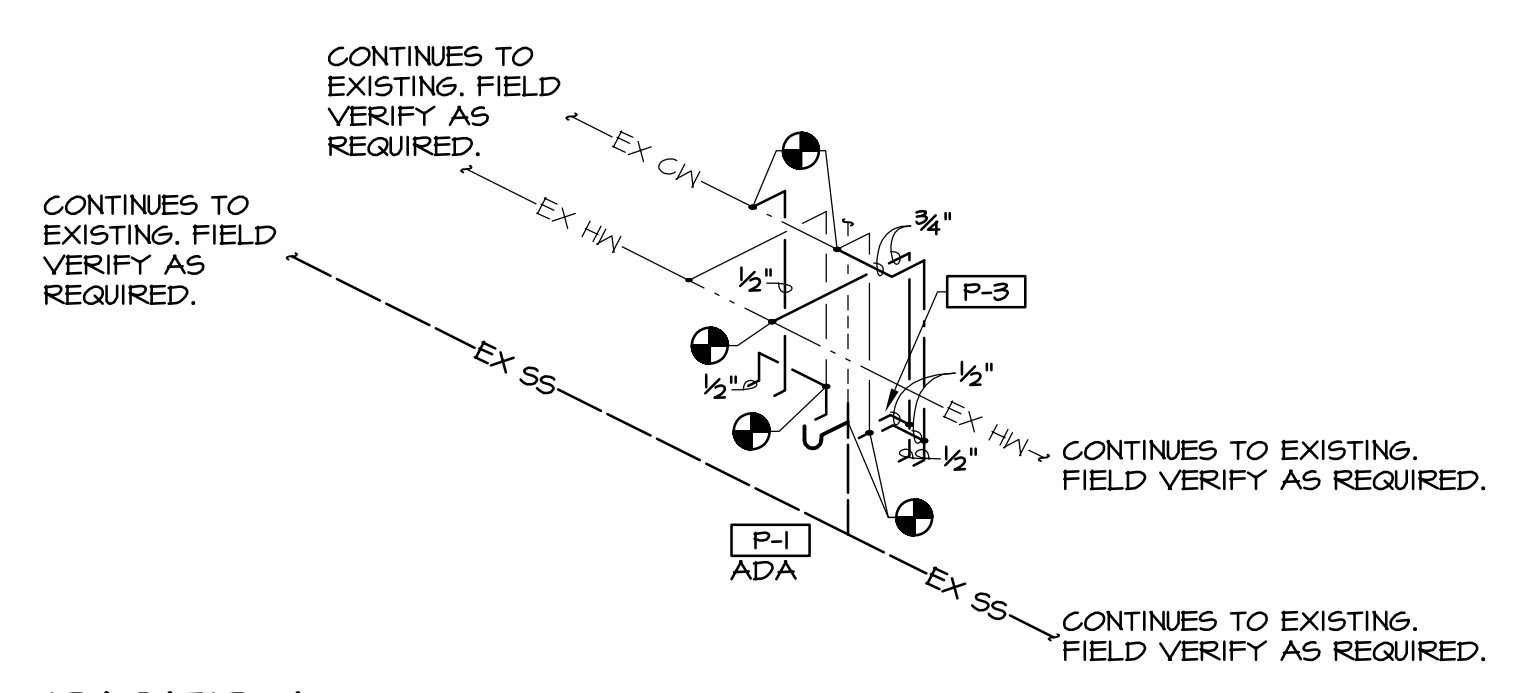
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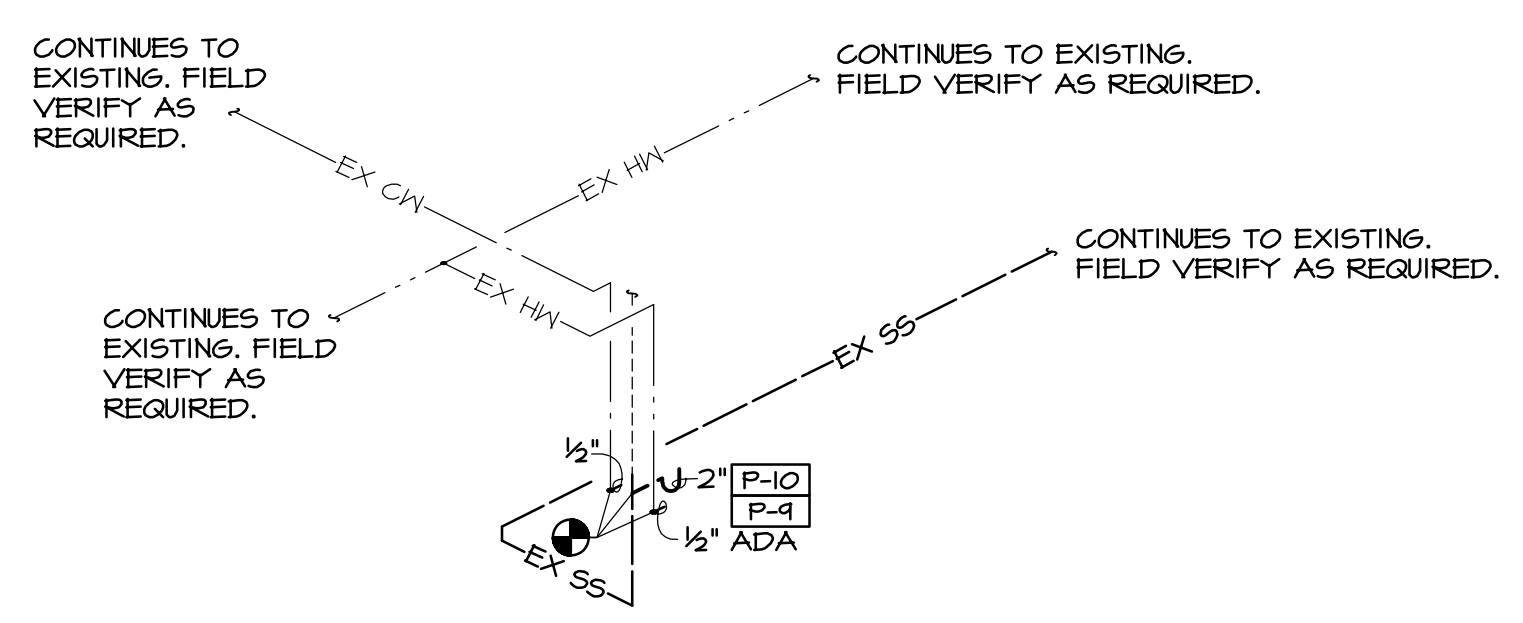
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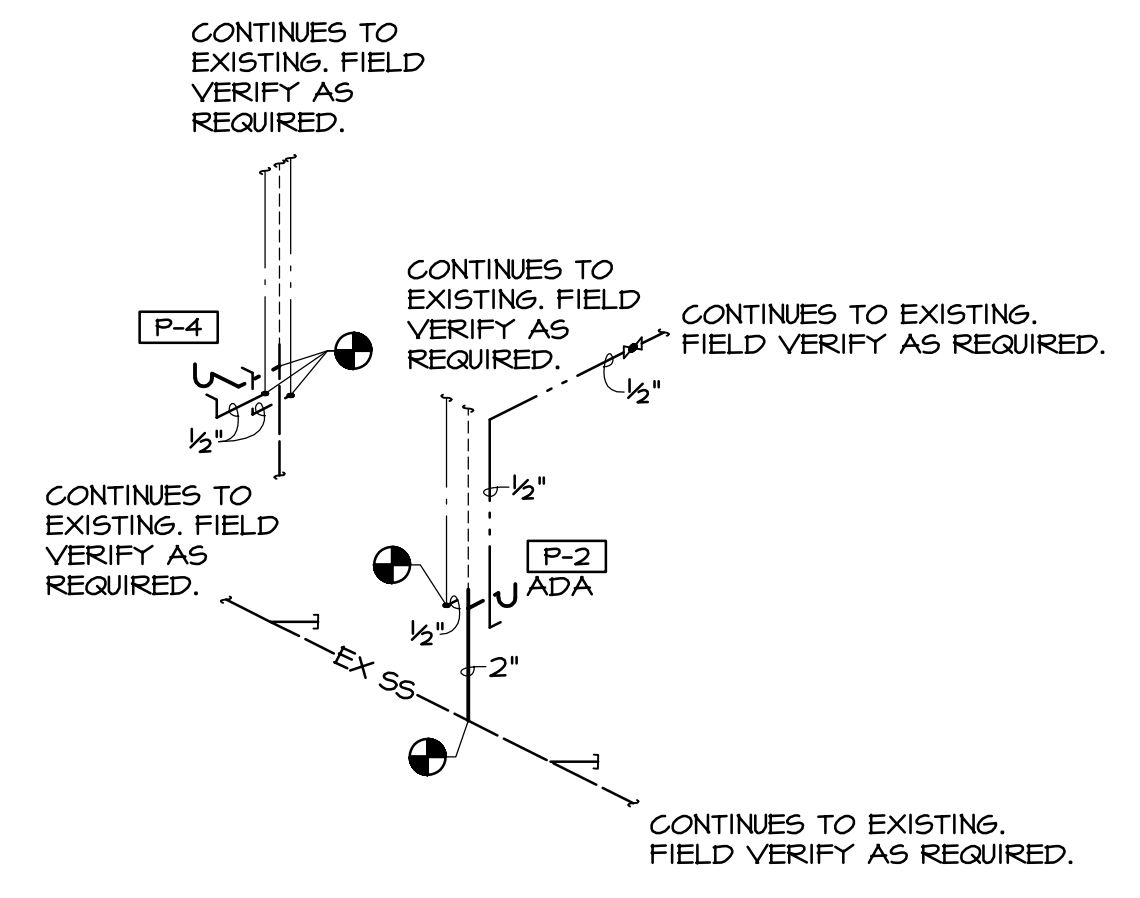
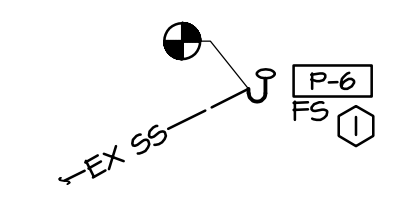
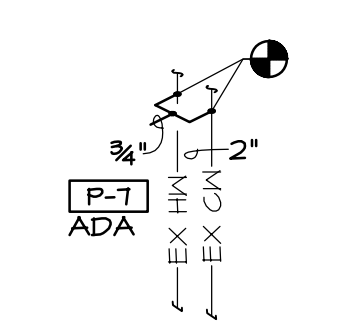
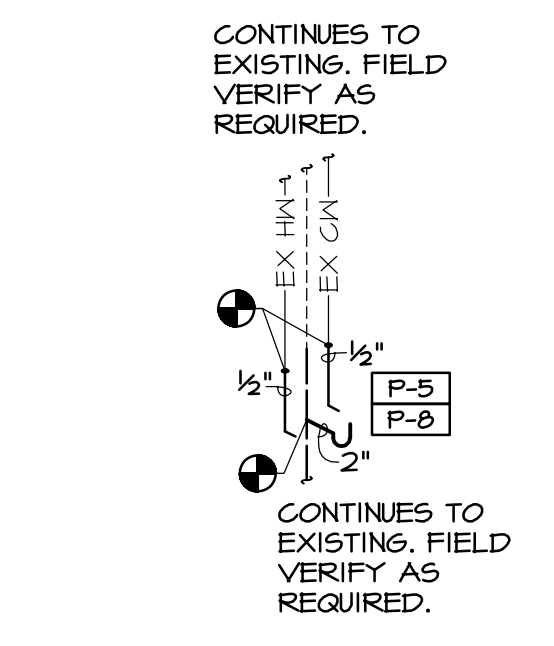
RISERS
PLUMBING
SHEET
P4.1
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1 RISER 1
N.T.S.



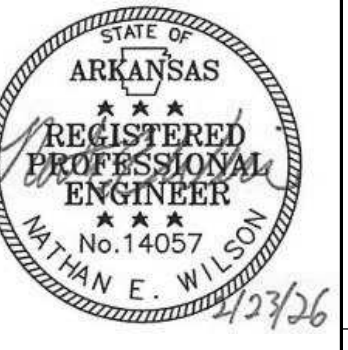
2 RISER 2
N.T.S.



NOTES:
RE: P.1 FOR PLUMBING LEGEND, NOTES & SCHEDULE.
RE: P.3 FOR PLUMBING DETAILS

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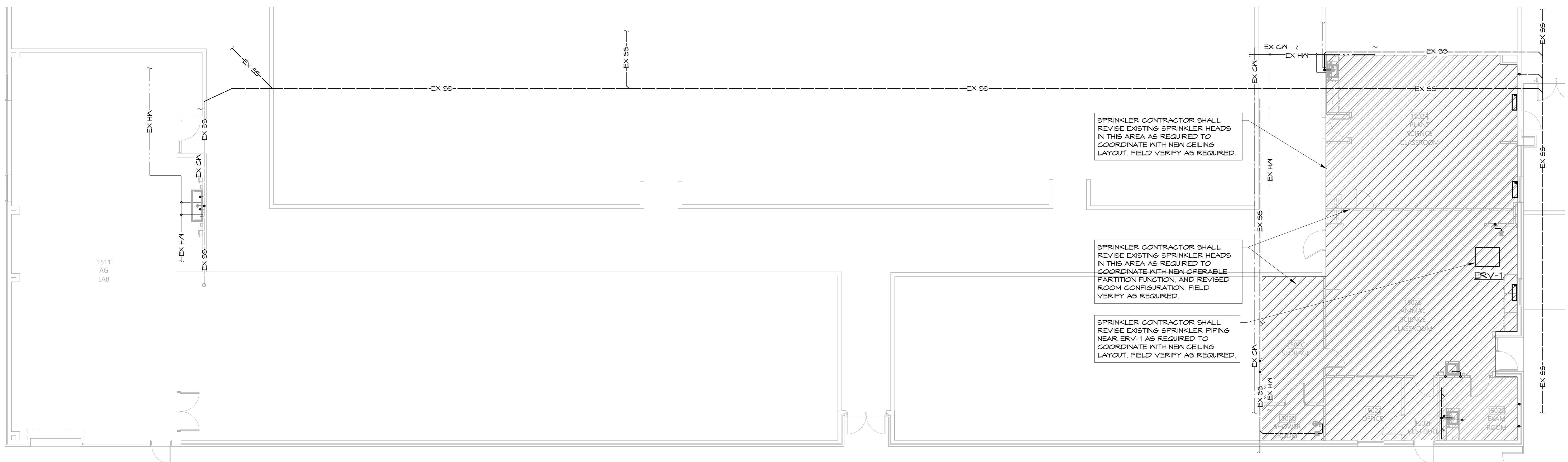
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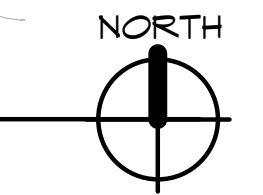
FIRE PROTECTION PLAN
SHEET
FP2.1
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1 FIRE PROTECTION PLAN
1/8" = 1'-0"

NOTES:
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& PLUMBING SCHEDULE. RE.P3.1 FOR
PLUMBING DETAILS.

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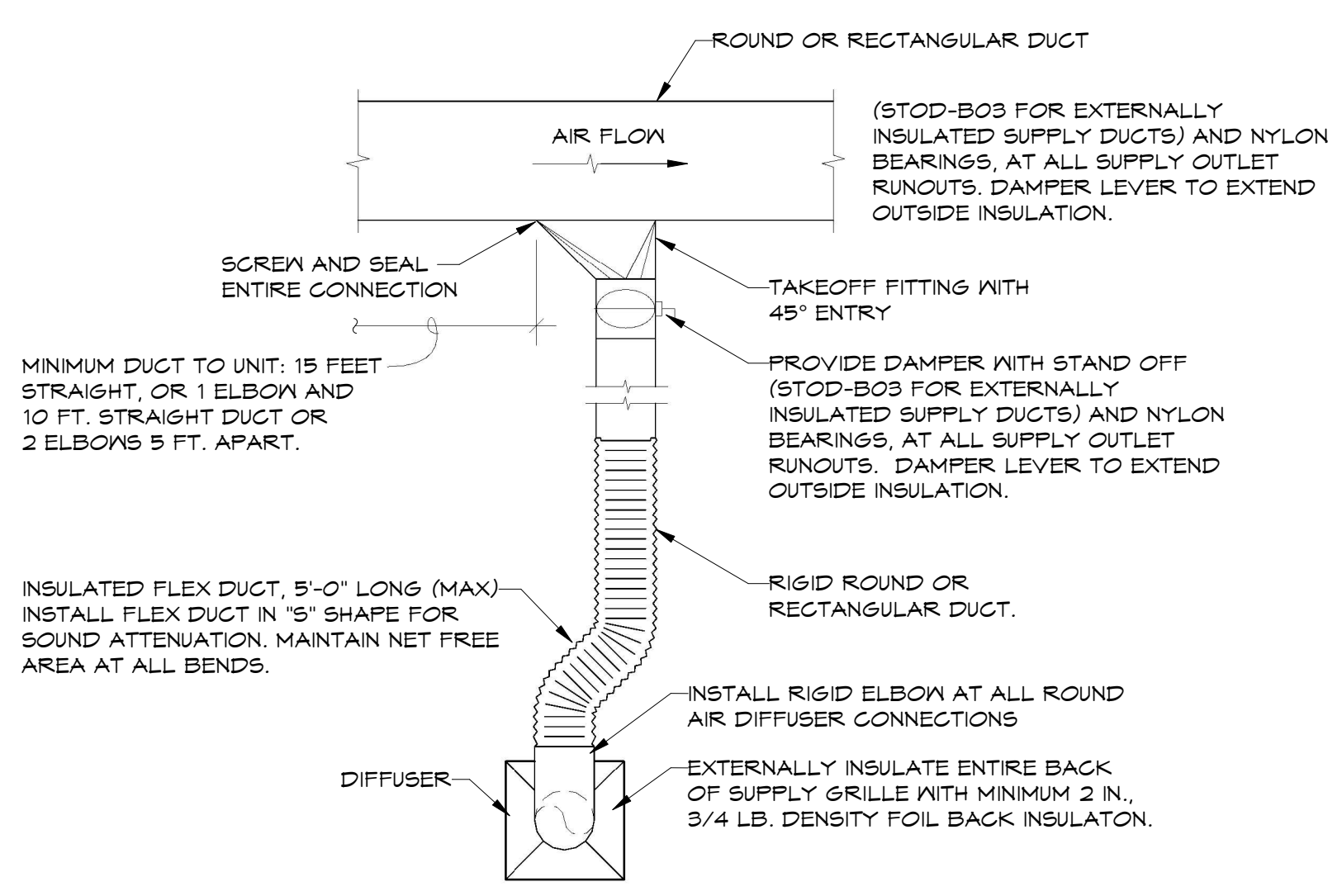
GENERAL HVAC NOTES

- COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES, SPRINKLERS 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 PLENUM BOXES AND EXHAUST AIR PLENUM BOXES WITH 2 IN., 3/4 LB DENSITY FOIL BACKED INSULATION.
- 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.
- ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE MECHANICAL CODES.
- 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.
- DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.

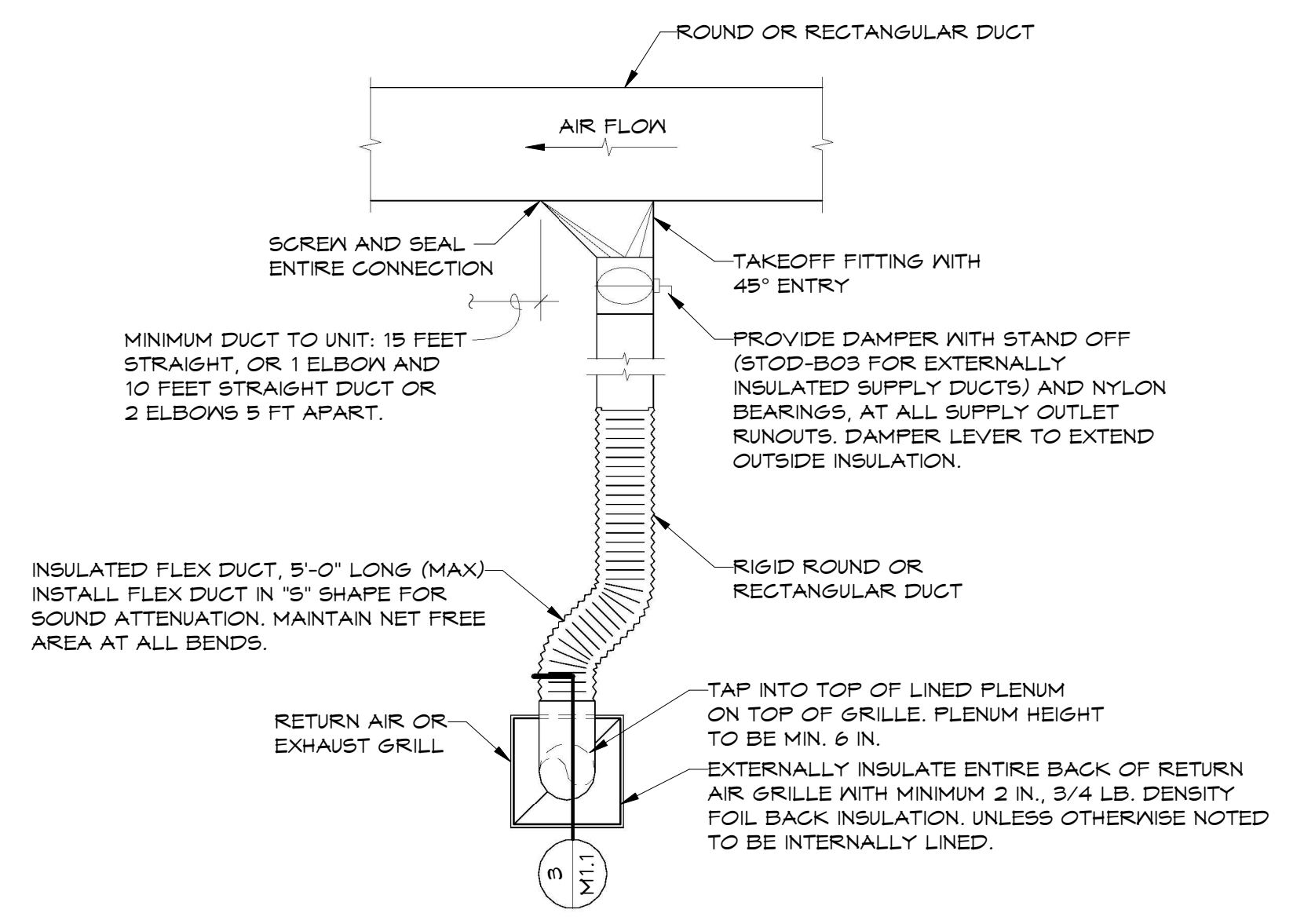
MECHANICAL LEGEND

- SUPPLY, RETURN, OR EXHAUST DUCT
- DEMO SUPPLY, RETURN, OR EXHAUST DUCT
- EXISTING SUPPLY, RETURN, OR EXHAUST DUCT
- VOLUME DAMPER
- FLEX DUCT CONNECTION MAXIMUM OF 5 FT.
- THERMOSTAT. MOUNT AT 48" A.F.F TO TOP (NUMBER DENOTES EQUIPMENT TAG)
- SUPPLY DUCT SECTION
- RETURN OR EXHAUST DUCT SECTION
- CEILING SUPPLY GRILLE
- CEILING RETURN GRILLE
- CEILING EXHAUST GRILLE
- SIDEWALL SUPPLY OR RETURN GRILLE
- SEE KEYED NOTES

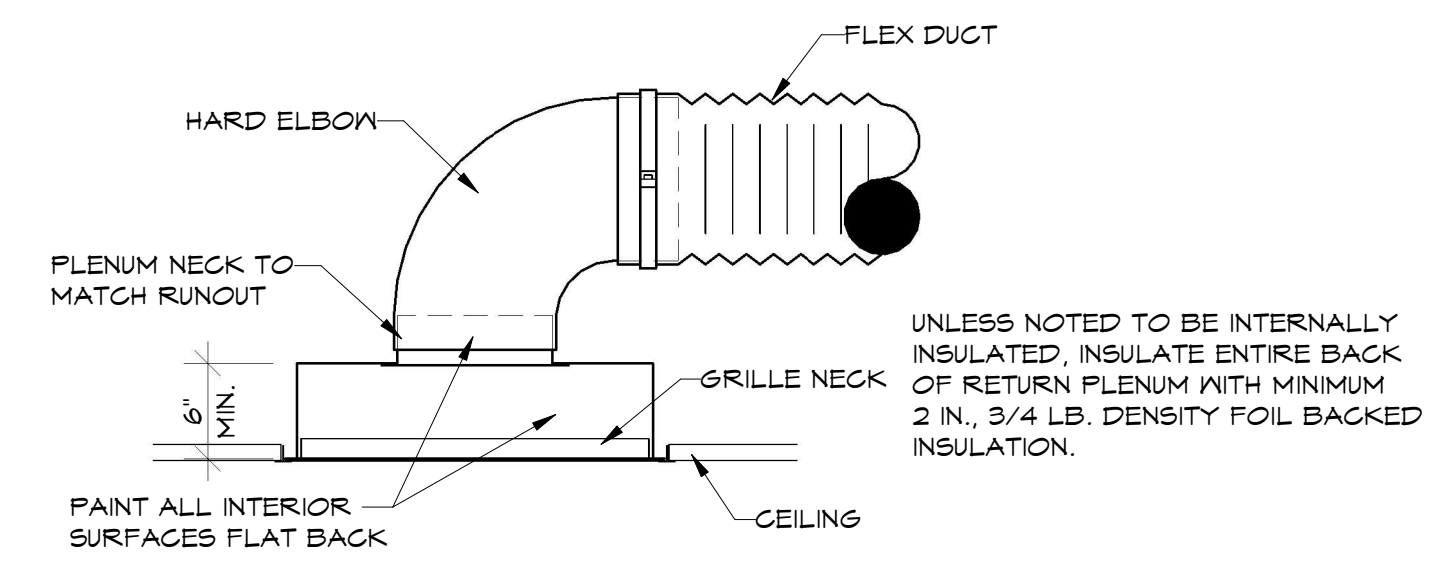
1 SUPPLY DUCT CONNECTION DETAIL
NTS



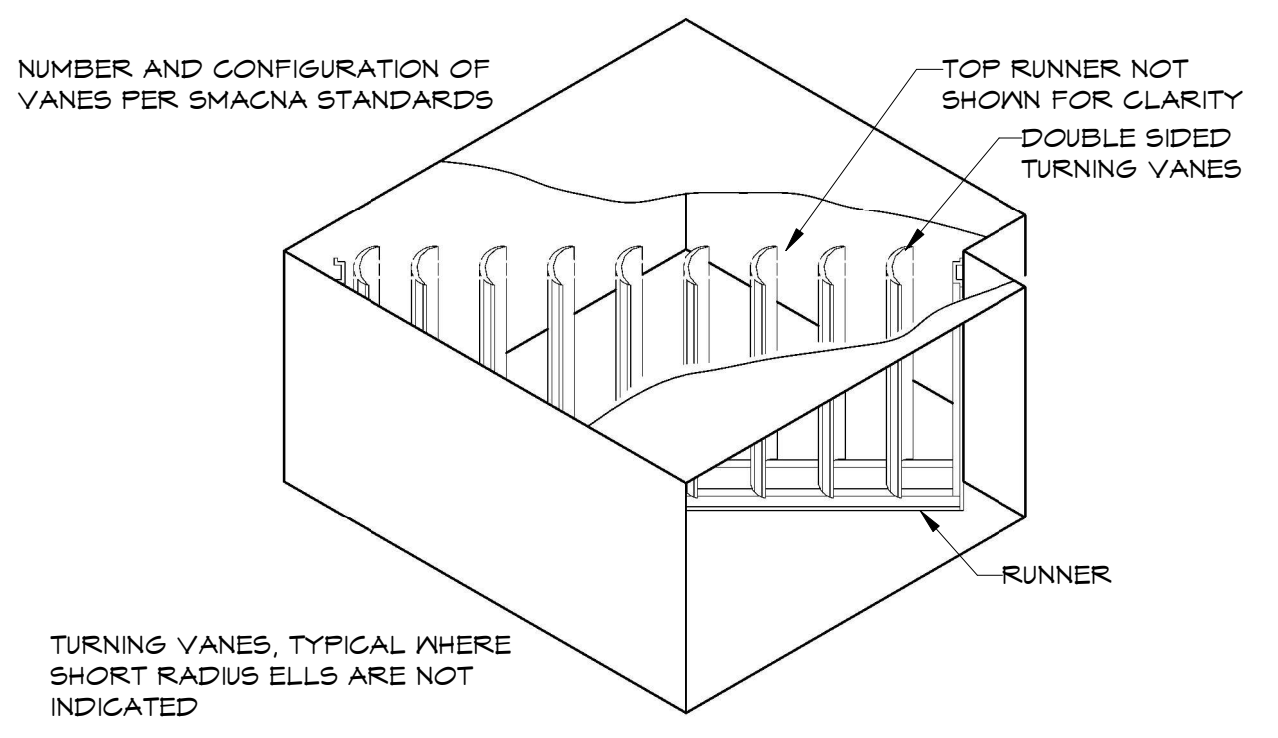
2 RETURN DUCT CONNECTION DETAIL
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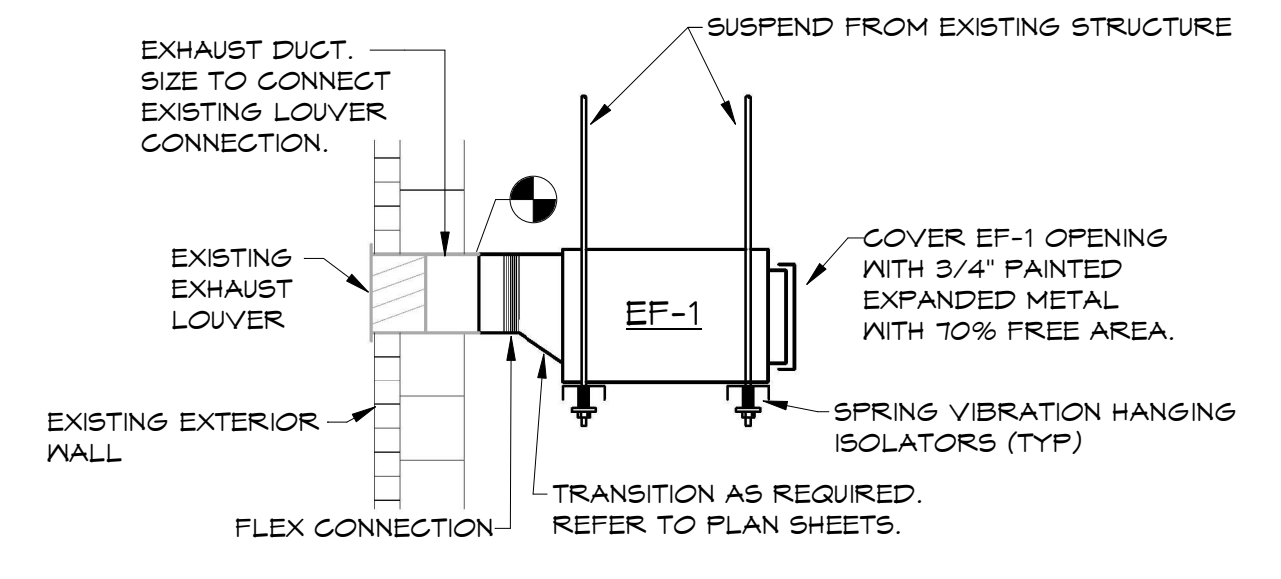
3 RETURN GRILLE CONNECTION SECTION
NTS



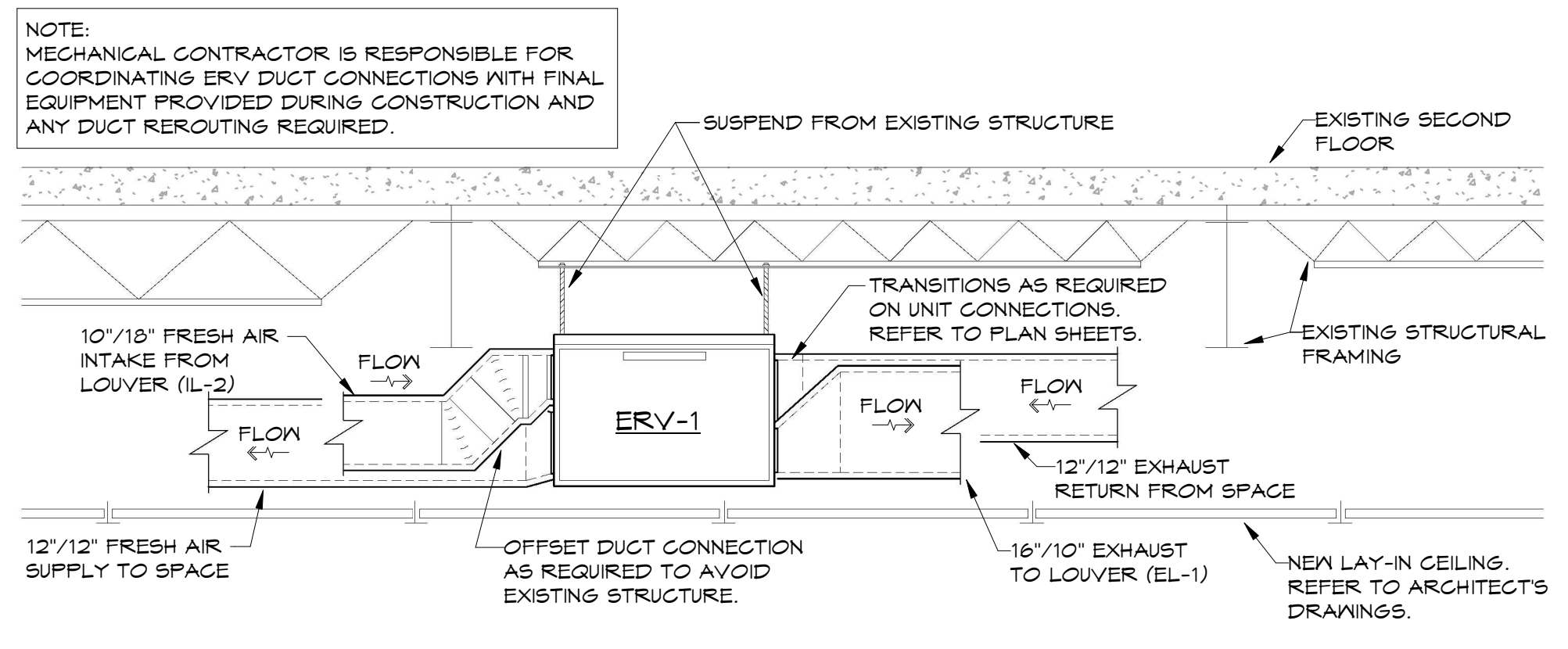
4 TURNING VANE DETAIL
NTS



5 EXHAUST FAN DETAIL
N.T.S

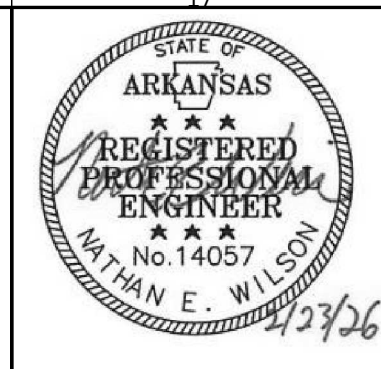


6 ERV-1 DETAIL
N.T.S



NOTES:
REFER TO SHEET M1.1 FOR HVAC NOTES, LEGEND AND DETAILS.
REFER TO SHEET M2.0 FOR HVAC DEMO PLANS.
REFER TO SHEET M2.1 FOR HVAC PLANS.

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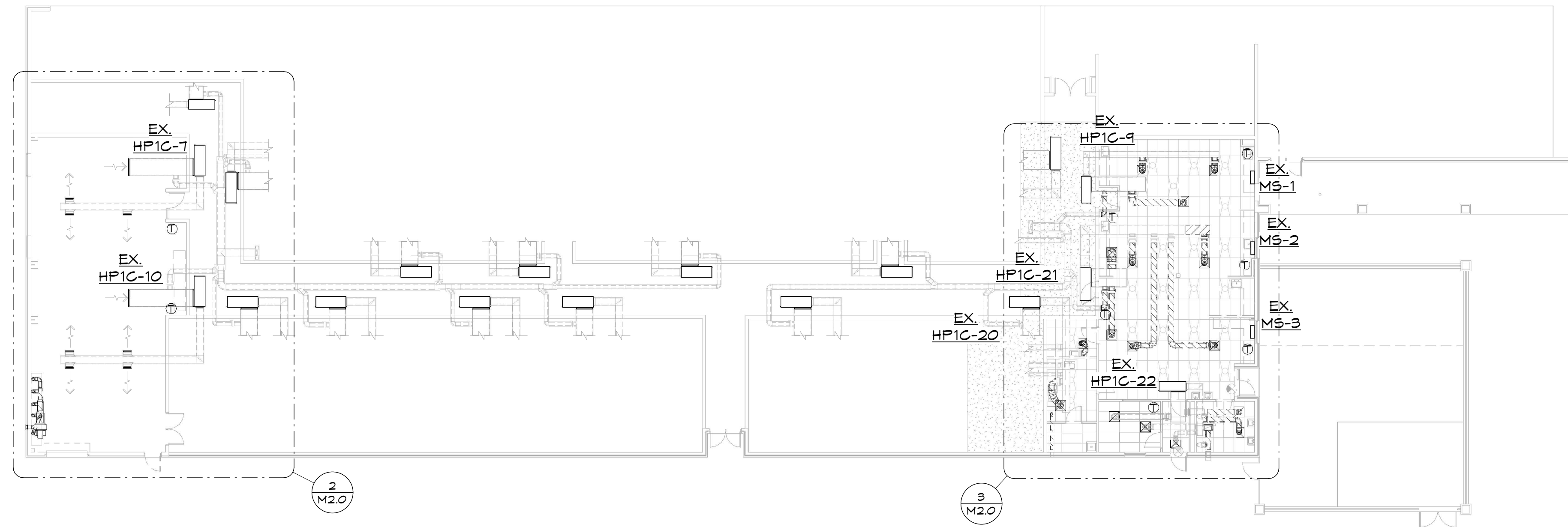
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PROJECT NO: 2540
REVISION DATES: 3/16/2026

HVAC NOTES, LEGEND & DETAILS
SHEET
M1.1
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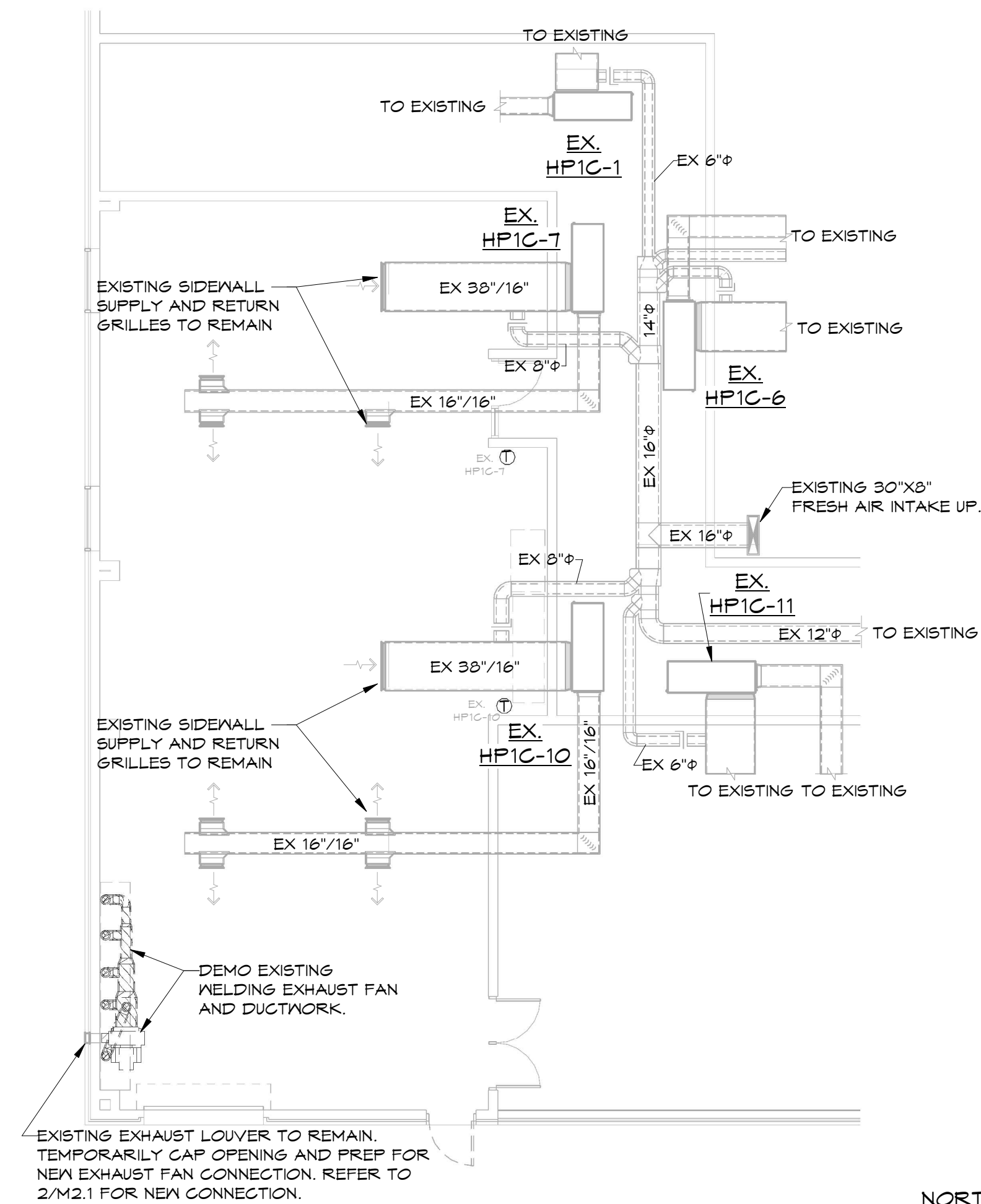


DEMO HVAC KEYED NOTES

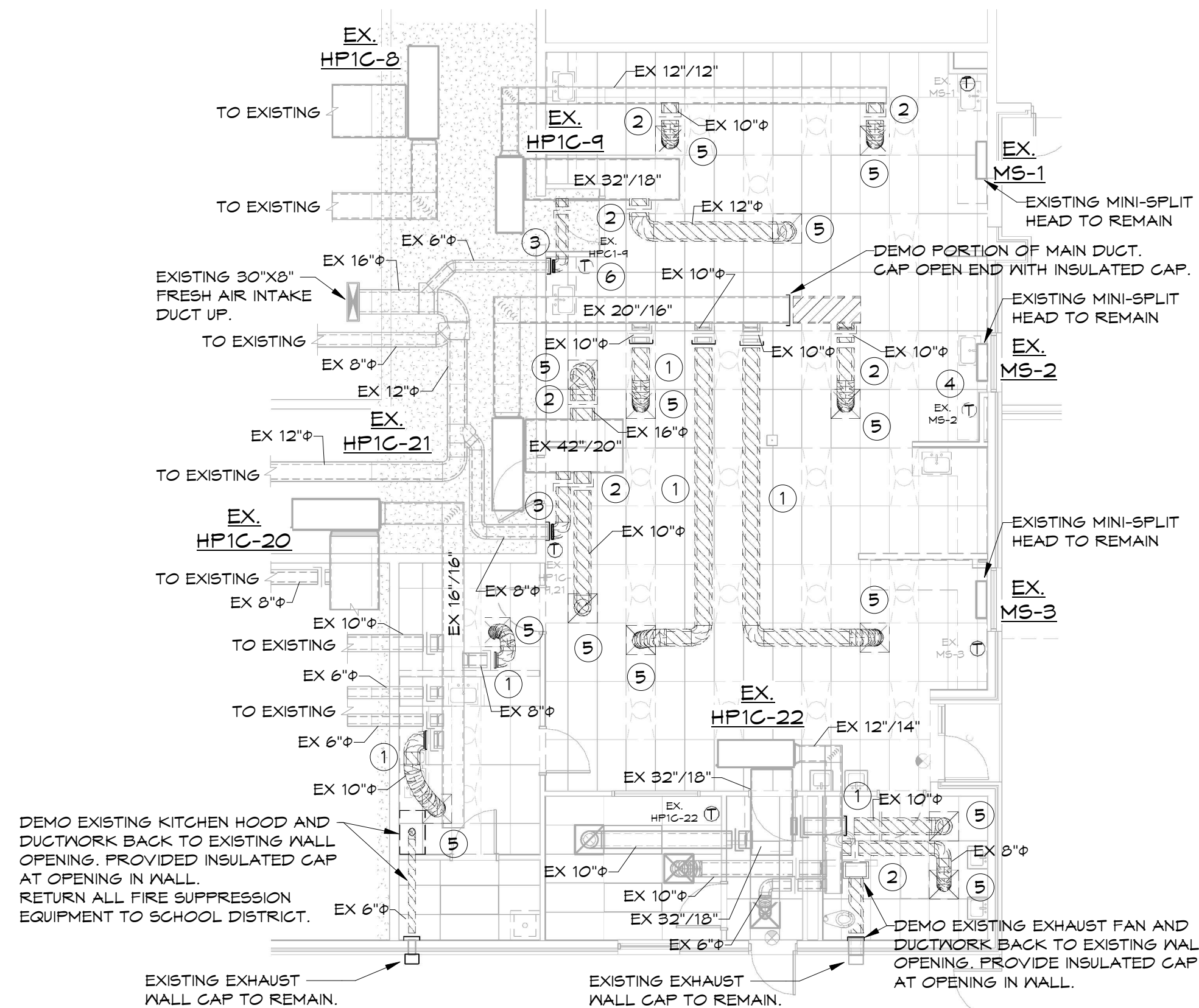
- 1 DEMO EXISTING BRANCH DUCT BACK TO DAMPER. CAP OPEN END AND PREP FOR NEW CONNECTION. REFER TO M2.1 FOR NEW CONNECTION.
- 2 DEMO EXISTING BRANCH DUCT BACK TO MAIN PLENUM. INSULATE AND SEAL EXISTING OPENINGS. REFER TO M2.1 FOR NEW BRANCH DUCTS CONNECTIONS.
- 3 DEMO EXISTING FRESH AIR DUCT BACK TO WALL PENETRATION ABOVE CLASSROOM CEILING AND CAP OPENING WITH INSULATED CAP.
- 4 THERMOSTAT IS TO BE REMOVED AND RELOCATED. REFER TO M2.1 FOR NEW LOCATION.
- 5 DEMO EXISTING GRILLE.
- 6 THERMOSTAT FOR EXISTING HP1C-9 IS LOCATED ABOVE EXISTING LAY-IN CEILING. THERMOSTAT IS TO BE REMOVED FROM ABOVE CEILING AND STORED FOR RELOCATION. RE:3/M2.1 FOR THERMOSTAT NEW LOCATION.



1 OVERALL HVAC DEMOLITION PLAN
1/16" = 1'-0"



2 HVAC DEMOLITION PLAN AREA A
1/8" = 1'-0"



3 HVAC DEMOLITION PLAN AREA B
1/8" = 1'-0"



NOTES:
REFER TO SHEET M1.1 FOR HVAC NOTES, LEGEND AND DETAILS.
REFER TO SHEET M2.0 FOR HVAC DEMO PLANS.
REFER TO SHEET M2.1 FOR HVAC PLANS.

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HVAC KEYED NOTES

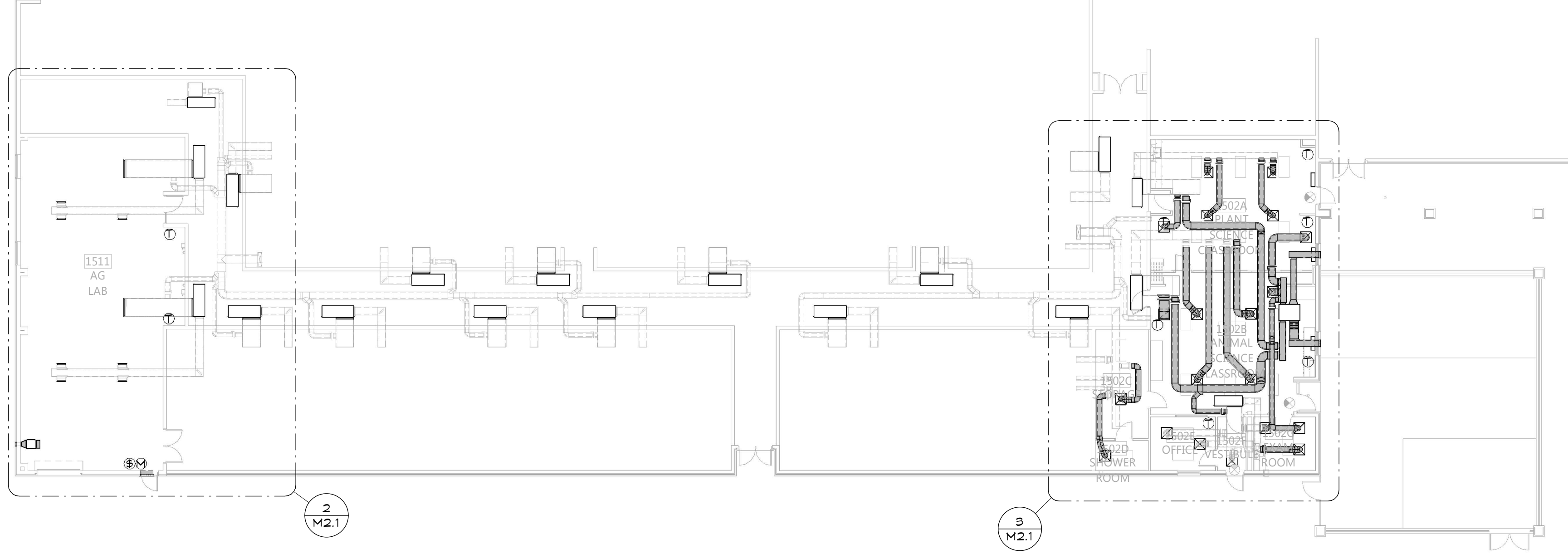
- MAINTAIN A MINIMUM OF 10 FT. CLEARANCE BETWEEN ALL EXHAUST OUTLETS, FLUES, PLUMBING VENTS AND ANY FRESH AIR INTAKES. IF 10 FT. CLEARANCE CAN NOT BE MAINTAINED EXHAUST OUTLET, FLUE, OR VENT MUST TERMINATE AT A POINT AT LEAST 36 IN. ABOVE HIGHEST FRESH AIR INTAKE WITHIN 10 FT. LIMIT.
- LOCATE THERMOSTAT OR WALL SWITCH AS INDICATED WITH THE TOP OF THE THERMOSTAT / WALL SWITCH AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.
- BALANCE EXISTING GRILLE TO THE LISTED CFM BELOW KEYED NOTE.
- COORDINATE NEW DUCT ROUTING BETWEEN NEW OPERABLE PARTITION WALL SUPPORTS.

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	MFG.	MODEL	AIRFLOW		OUTSIDE AIR		EXHAUST AIR		SUPPLY AIR		UNIT WEIGHT (LBS)	ELECTRICAL			REMARKS / ACCESSORIES			
			SUPP. CFM	EX. CFM	SUMMER (DB/WB)	WINTER (DB/WB)	SUMMER (DB/WB)	WINTER (DB/WB)	SUMMER (DB/WB)	WINTER (DB/WB)		MCA	MOP	VOLT/PH/HZ				
ERV-1	GREENHECK	MINIV-150-V6	830	725	3/4	3/4	0.5 / 0.5	95.3 / 75.3	0.0 / -1.6	75.0 / 62.3	72.0 / 55.6	71.0 / 66.1	53.3 / 44.0	240	12.5	15	208 / 1 / 60	1, 2, 3, 4, 5, 6, 7

REMARKS/ACCESSORIES

- PROVIDE LOW PROFILE UNIT (26" MAXIMUM HEIGHT) FOR ABOVE CEILING INSTALLATION WITH SPRING VIBRATION HORIZONTAL HANGING ISOLATORS.
- PROVIDE (2) 2" THICK MERV 8 FOR OSA AND EXHAUST AIRSTREAMS.
- PROVIDE WITH UL, CSA, AND AHRI CERTIFICATIONS.
- PROVIDE DIRECT DRIVE MOTORS.
- PROVIDE INSULATED CASING.
- PROVIDE TOTAL ENERGY EFFECTIVENESS >80% TESTED TO AHRI 1060.
- PROVIDE START RELAY TO INTERLOCK ERV WITH EX. HP1C-9 AND/OR EX. HP1C-21 OPERATION.
- CONTACT MATT MAHURIN AT PRIME BUILDING SOLUTIONS FOR PRICING FOR INTERLOCKING EQUIPMENT. PHONE: 479.644.2392 EMAIL: matt@prime-bas.com



AIR DISTRIBUTION SCHEDULE

MARK	CFM	NECK SIZE	MFG.	MODEL	TYPE	FINISH	FRAME	REMARKS/ACCESSORIES
A	105-200	8"Ø	TITUS	TMS	SUPPLY	WHITE	LAY-IN	1
B	205-350	10"Ø	TITUS	TMS	SUPPLY	WHITE	LAY-IN	1
C	200-1200	22" X 22"	TITUS	355RLF1	FILTER RETURN	WHITE	LAY-IN	1, 2, 3, 4
D	110-360	22" X 22"	TITUS	30F	EXHAUST	WHITE	LAY-IN	2, 5

REMARKS/ACCESSORIES

- STEEL CONSTRUCTION.
- NO SCREEN HOLES.
- PROVIDE FILTERED RETURN GRILLE.
- PROVIDE GRILLE WITH 1" THICK FILTERS EQUAL TO FARR 30/30.
- ALUMINUM CONSTRUCTION.

EXHAUST FAN SCHEDULE

MARK	MFG.	MODEL	CFM	ESP. IN. WC	H.P./WATTS	VOLT/PH/HZ	SCENE	RPM	UNIT WEIGHT (LBS)	REMARKS / ACCESSORIES
EF-1	GREENHECK	SQ-120	855	0.75	1/2	115 / 1 / 60	7.1	1303	75	1, 2, 3, 4

REMARKS/ACCESSORIES

- PROVIDE FACTORY BACK DRAFT DAMPER.
- PROVIDE DIRECT DRIVE MOTOR WITH FAN SPEED CONTROLLER.
- PROVIDE FACTORY CEILING HUNG VIBRATION ISOLATORS.
- INTERLOCK EXHAUST FAN WITH WALL SWITCH BY ELECTRICAL CONTRACTOR.

LOUVER SCHEDULE

MARK	CFM	NECK SIZE	MFG.	MODEL	TYPE	FINISH	FRAME	ACCESSORIES
EL-1	830	14" X 28"	GREENHECK	ESD-635	EXHAUST LOUVER	BAKED ENAMEL	FLANGED	1, 2, 3, 6
IL-1	855	28" X 16"	GREENHECK	EAD-635	INTAKE LOUVER	BAKED ENAMEL	FLANGED	1, 2, 3, 4, 5, 6
IL-2	830	14" X 28"	GREENHECK	ESD-635	INTAKE LOUVER	BAKED ENAMEL	FLANGED	1, 2, 3, 6

REMARKS/ACCESSORIES

- ALUMINUM CONSTRUCTION.
- PROVIDE STEEL BIRD SCREEN. INSTALL ON OUTSIDE OF LOUVER.
- PROVIDE FACTORY SIGHT-PROOF, DRAINABLE LOUVER.
- PROVIDE COMBINATION LOUVER/DAMPER WITH 120 VOLT ACTUATOR AND END SWITCH.
- INTERLOCK MOTORIZED LOUVER WITH EXHAUST FAN PER NOTES ON PLANS.
- ARCHITECT TO PROVIDE LOUVER COLOR FINISH SELECTION.

EXISTING WATER SOURCED HEAT PUMP AIRFLOW SCHEDULE

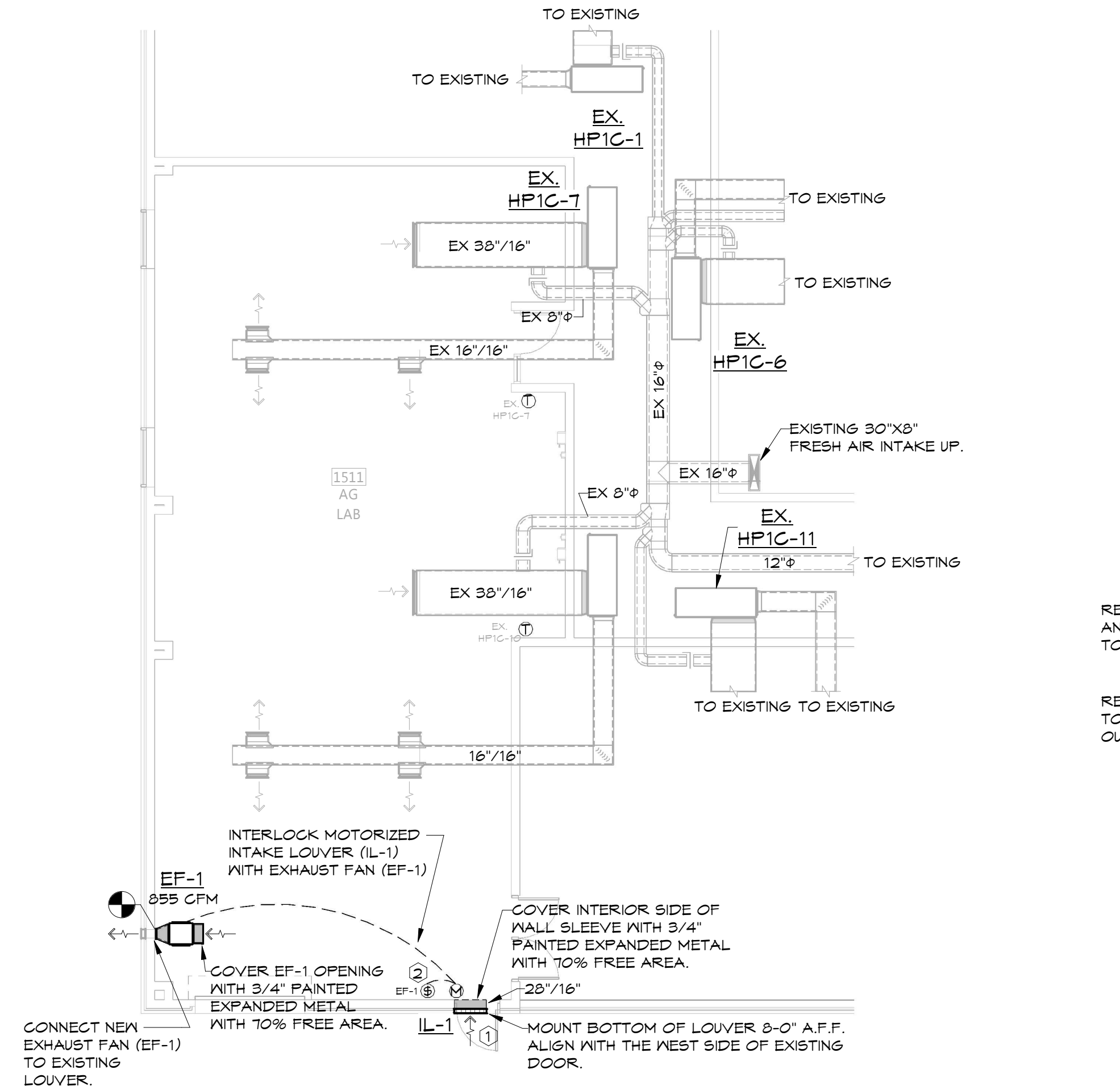
MARK	EXISTING SUPPLY CFM	NEW SUPPLY CFM	OUTSIDE AIR CFM	REMARKS
EX. HP1C-9	600	600	385	1, 2
EX. HP1C-20	1200	975	150	1, 3
EX. HP1C-21	1400	1400	390	1, 2
EX. HP1C-22	600	600	55	1, 2

REMARKS:

- AIRFLOWS ARE LISTED FOR TEST AND BALANCE CONTRACTOR. NO CHANGES ARE TO BE MADE TO EXISTING EQUIPMENT.
- OUTSIDE AIR IS PROVIDED FROM NEW ERV UNIT (ERV-1)
- ADJUST EXISTING FRESH AIR DUCT DAMPER TO MATCH LISTED AIRFLOW.

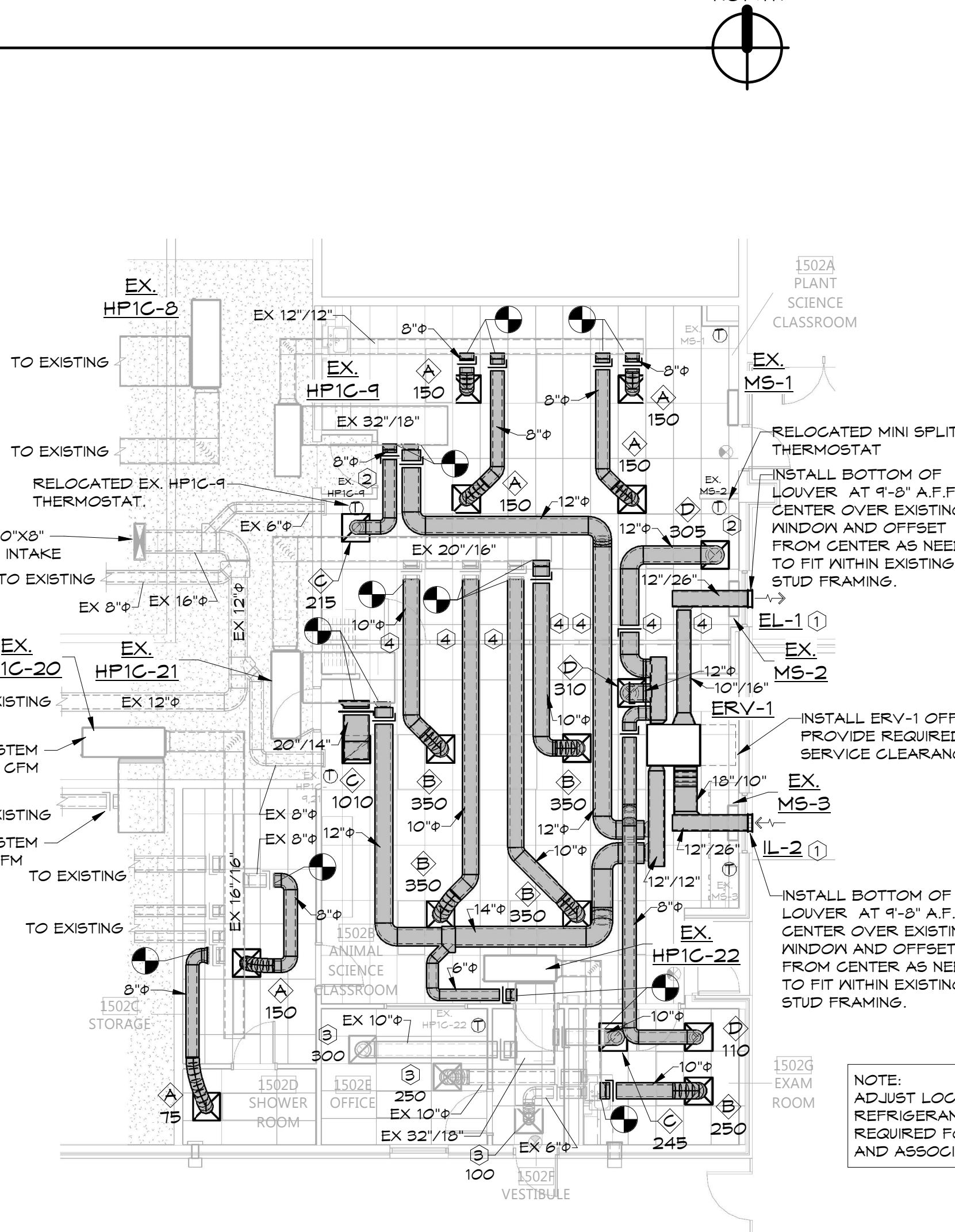
1 OVERALL HVAC PLAN

1/16" = 1'-0"



2 HVAC PLAN AREA A

1/8" = 1'-0"



3 HVAC PLAN AREA B

1/8" = 1'-0"

NOTES:

- REFER TO SHEET M1.1 FOR HVAC NOTES, LEGEND AND DETAILS.
- REFER TO SHEET M2.0 FOR HVAC DEMO PLANS.
- REFER TO SHEET M2.1 FOR HVAC PLANS.

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 BENTONVILLE, AR

DRAWN BY: RJK
 CHECK BY: NEW
 ISSUE DATE: 2/23/2026

PROJECT NO: 2540
 REVISION DATES: 3/16/2026

HVAC PLAN
 SHEET
M2.1
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ELECTRICAL LEGEND, NOTES & DETAILS

SHEET
E1.1

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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. THIS CONTRACTOR IS TO COMPLY WITH THE STATE ADOPTED ADA ACCESSIBILITY GUIDELINES IN REGARD TO ACCESSIBLE FEATURES.
2. AT ALL MILLWORK LOCATIONS COORDINATE THE ELECTRICAL INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
3. PROVIDE FIRE RATED GULKINGS WHERE CONDUIT OR OTHER ELECTRICAL ITEMS PASS THROUGH FIRE-RATED WALLS, CEILING AND FLOORS.
4. INSTALL ALL CONDUIT STRAIGHT AND PARALLEL WITH THE BUILDING LINES. ALL CONDUIT IS CONCEALED IN PUBLIC PLACES.
5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT AND FEE COSTS AND SHALL INCLUDE THESE COSTS IN THE BID PRICE FOR THIS PROJECT.
6. 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.
7. 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.
8. DO NOT SCALE DIRECTLY FROM THE ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION.
9. 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.
10. 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 WITH OUT THE EXPRESSED WRITTEN CONSENT OF THE OWNER.
11. 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.
12. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING SYSTEMS:

- A. POWER AND LIGHTING
1. ALL DEVICE PLATES ARE TO BE NYLON. COLOR OF DEVICES ARE TO BE IVORY.
2. ALL 20A 120V AND SYSTEM AS LOCKING TYPE RECEPTACLES, UNLESS OTHERWISE NOTED, SHALL BE TAMPER RESISTANT TYPE PER NEC 408.12.
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 ENCASED 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 PULL STRING. EMPTY CONDUITS 2" AND LARGER ARE TO BE SNABBED OUT AND LEFT WITH A NYLON PULL 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 AS SHOWN ON THESE DRAWINGS.
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. ALL WIRE AND CABLE SHALL BE SOFT DRAWN COPPER WITH INSULATION CONFORMING TO REQUIREMENTS OF THE NEC AND ALL RELEVANT ASTM SPECIFICATIONS.
13. ALL WIRE NO. 8 AND LARGER SHALL BE STRANDED, WHERE NO. 12 OR 10 STRANDED IS USED, TERMINATE WITH INSULATED COMPRESSION LUGS OF THE PROPER SIZE. E. ALL WIRE SHALL HAVE 600 VOLT TYPE THHN INSULATION, UNLESS SPECIFIED OTHERWISE ON THE PLANS.
14. WIRE SIZES:

Table with 2 columns: WIRE SIZE 120V, WIRE SIZE 277V. Rows A, B, C, D with corresponding foot ranges.

GENERAL ELECTRICAL NOTES
(CONTINUED.)

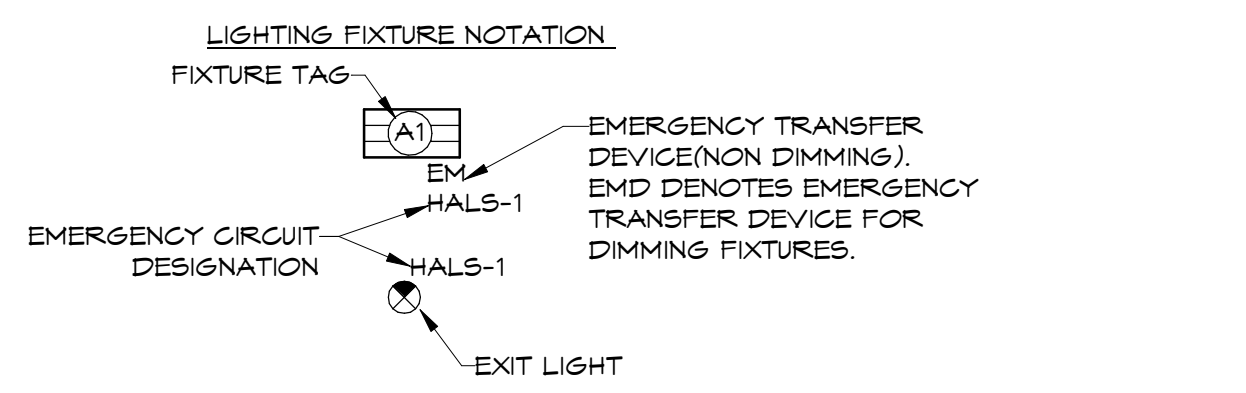
- B. FIRE ALARM:
1. ALL FIRE ALARM OUTLET BOXES ARE TO BE PAINTED RED.
2. INSTALL FIRE ALARM SYSTEM PER N.F.P.A. AND ALL STATE AND LOCAL ORDINANCES.
3. FURNISHING ALL DEVICES AND SYSTEMS NECESSARY FOR A COMPLETE ACCEPTABLE SYSTEM. NO EXTRA CHARGES WILL BE ALLOWED, OUTSIDE OF THE CONTRACT PRICE. THE FIRE ALARM CONTRACTOR IS TO SUBMIT PLANS TO THE FIRE MARSHAL FOR FINAL APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
4. 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.
5. STATE SYSTEMS INC IS TO PROVIDE AND INSTALL FIRE ALARM SYSTEM THROUGH THE OWNER VIA VENDOR CONTRACT. REFER TO THE PLANS AND SPECIFICATIONS FOR EXACT REQUIREMENTS.
C. CONDUIT AND CABLE SYSTEM FOR DATA AND TELEPHONE WIRING.
1. CONDUIT FOR DATA AND TELEPHONE SYSTEM, TO INCLUDE SLEEVES IN FIRE WALLS.
2. CABLE IS NOT TO BE INSTALLED EXPOSED. VERIFY WITH MECHANICAL PLANS FOR PLENUM SPACES CABLE IN THESE AREAS IS PLENUM RATED.
3. ELECTRICAL CONTRACTOR IS TO PROVIDE, INSTALL AND TERMINATE ALL DATA/TELEPHONE WIRING. REFER TO THE SPECIFICATIONS FOR EXACT REQUIREMENTS.
4. PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR UNUSED DATA OUTLETS. ALLOW FOR THREE PER CLASSROOM.
D. GROUNDING SYSTEM
1. ALL CONDUITS ARE TO CONTAIN A GREEN GROUNDING CONDUCTOR, SIZED PER THE N.E.C.
2. GROUND BUILDING STEEL AS INDICATED ON DRAWINGS.
E. 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 1 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 CONTRACTORS, 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.
F. 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.
G. 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 AND AT EACH DOOR. CONDUIT AT DOORS WITH LOCKS IS TO BE INSTALLED CONCEALED IN THE WALL.
2. STATE SYSTEMS INC. AND SECURITY IS TO PROVIDE AND INSTALL ACCESS CONTROL SYSTEMS THROUGH THE OWNER VIA VENDOR CONTRACT.

Table titled 'MOUNTING HEIGHTS' with columns for 'ELECTRICAL OUTLET DEVICE TYPE', 'MASONRY WALL, BASE (STARTER) COURSE HEIGHT 4 INCH / 8 INCH MOUNTING HEIGHT ABOVE FLOOR TO BOTTOM OF OUTLET (DEVICE) BOX', and 'SHEETROCK WALL, BASE MOUNTING HEIGHT ABOVE FLOOR TO BOTTOM OF OUTLET (DEVICE) BOX'. Rows include: RECEPTACLES OUTLETS, MICROPHONE OUTLETS (JACKS), EQUIPMENT OUTLETS (JACKS), TELEVISION OUTLETS (JACKS), PORTABLE TELEPHONE OUTLETS, COMPUTER OUTLETS, ETC.; GENERAL DEVICE THROUGHOUT; MECHANICAL EQUIPMENT ROOMS; ABOVE 24" HIGH COUNTER TOPS; ABOVE 30" HIGH COUNTER TOPS; ABOVE 34" HIGH COUNTER TOPS; ABOVE BACKSPASH TOP; ABOVE OR ADJACENT TO LAVATORIES; WALL-MOUNTED TELEPHONE OUTLETS; TELEPHONE/VIDEO CONTROL; TOGGLE SWITCHES; RECESSED MOTOR CONTROLLERS; ELECTRICAL PANELS, TERMINAL CABINETS, ETC., TO CENTER OF TUB OR BOX; WALL SWITCHES; HVAC THERMOSTAT/SENSOR; VOLUME CONTROLS, CALL-IN SWITCHES, DOOR BELL BUTTONS; HORN/STROBES (FIRE ALARM); FULL STATIONS (FIRE ALARM).

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.

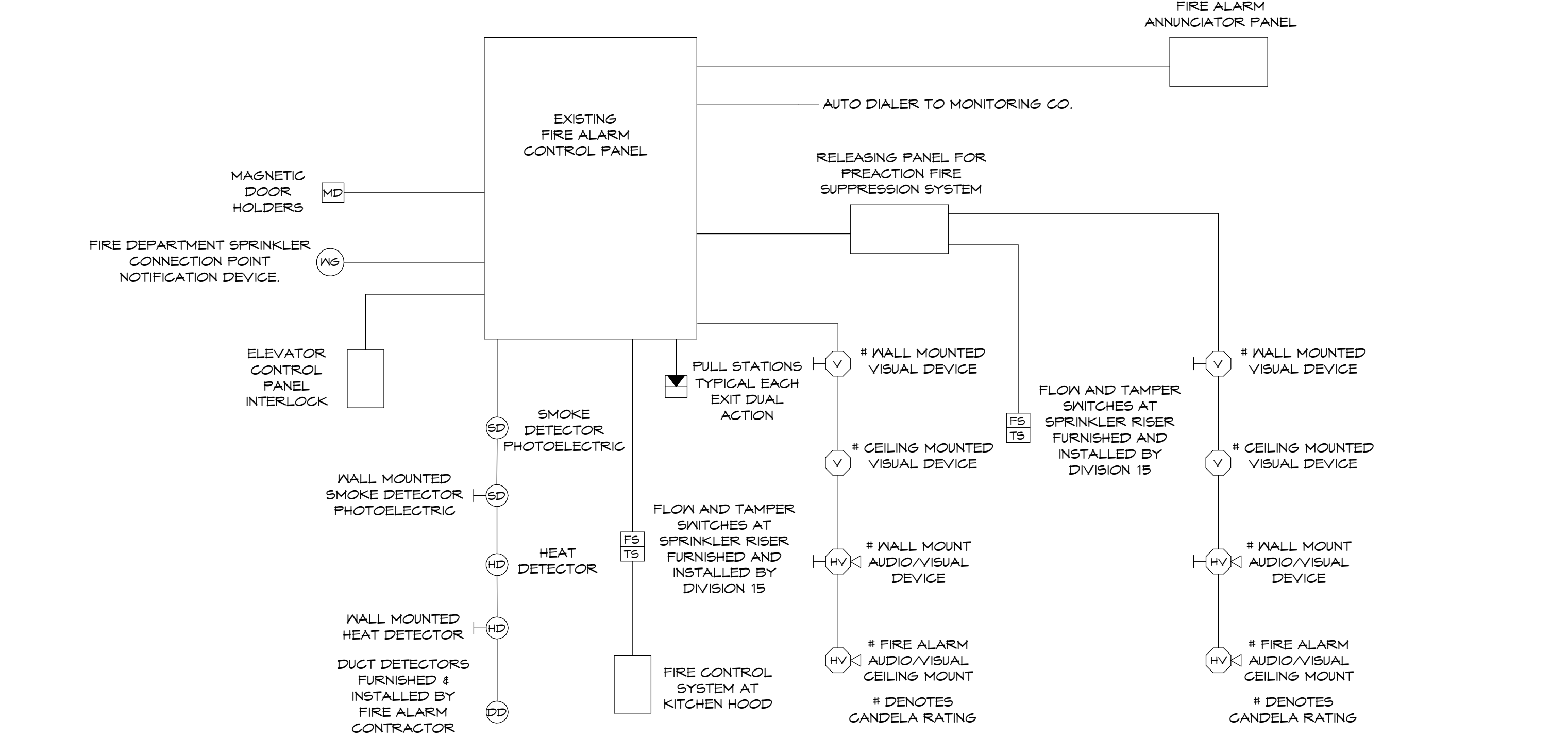
LEGEND

- ⊕ DUPLEX RECEPTACLE (NEMA 5-20R) OR-DOUBLE DUPLEX, TAMPER RESISTANT, COMMERCIAL SPECIFICATION GRADE.
⊕ 220 VOLT RECEPTACLE (NUMBER DENOTES AMPS)
⊕ DUPLEX RECEPTACLE GROUND FAULT NEMA 5-20R, TAMPER RESISTANT, COMMERCIAL SPECIFICATION GRADE.
◁ 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.
SM MOTOR RATED SWITCH USED FOR EQUIPMENT DISCONNECTING MEANS. SINGLE PHASE. PROVIDE WITH THERMAL OVERLOAD SIZED PER MOTOR LOAD.
S SWITCH TYPE 1221 (3" INDICATES 3-WAY SWITCH, "D" INDICATES DIMMER COORDINATE WITH FIXTURE/LAMP TYPE AND CIRCUIT WATTAGE.
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 CONTRACTORS TO CONTROL EXHAUST FAN WITH LIGHTS.
EXIT LIGHT - ARROW DENOTES INCLUSION OF ARROW ON LENS. CONTRACTOR TO COORDINATE PROPER MOUNTING DETAILS.
T-F-1,2 THERMOSTAT, MOUNT, @ 48" A.F.F. TO CENTER OF BOX (NUMBER DENOTES HVAC UNIT).
Co2 SENSOR, MOUNT @ 48" TO CENTER IN SEPARATE SINGLE GANG BOX.
BRANCH CIRCUIT HOMERUN, PANEL AND CIRCUIT NUMBER INDICATED.
SV-1 CEILING FIRE ALARM SPEAKER/STROBE LIGHT-HP DENOTES WEATHER RESISTANT. REQUIRES 4" SQUARE BOX WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING. NUMBER DENOTES CANDELA RATING.
SV-1 WALL MOUNT FIRE ALARM SPEAKER/STROBE LIGHT-HP DENOTES WEATHER RESISTANT. REQUIRES 4" SQUARE BOX WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING. NUMBER DENOTES CANDELA RATING.
FLUSH MOUNTED OUTLET BOX, BOTTOM AT 44" 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 REQUIREMENTS WITH STATE SYSTEM FIRE AND SECURITY.
DETAIL NUMBER
SHEET NUMBER



- SUBSCRIPTS:
C = COORDINATE LOCATION WITH MILLWORK-MOUNTING HEIGHTS VARY. REFER TO THE ARCHITECTURAL MILLWORK DRAWINGS.
M = WALL MOUNTED @ 48" A.F.F.-OR AS SHOWN.
GFI = GROUND FAULT CIRCUIT INTERRUPTER.
EM = FIXTURE CONTAINS EMERGENCY BATTERY PACK.
NL = UNSWITCHED EMERGENCY FIXTURE.
H = MOUNT HORIZONTALLY IN MILLWORK.
EC = ELECTRICAL CONTRACTOR
AFF = ABOVE FINISHED FLOOR
AFG = ABOVE FINISHED GRADE
NTS = NOT TO SCALE

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



- NOTE:
1. INSTALL WIRING TO ALL DUCT DETECTORS. REFER TO SPECIAL SYSTEMS PLANS.
2. COORDINATE WITH THE MECHANICAL DRAWINGS.
3. COORDINATE WITH THE LOCAL "A.H.I." PRIOR TO BIDDING THIS PROJECT.
4. FIRE ALARM VENDOR CONTRACTOR TO MODIFY AS NECESSARY FOR SYSTEM PROVIDED.
5. FIRE ALARM VENDOR CONTRACTOR TO PROVIDE DETECTION AND RELEASE OF PREACTING FIRE SUPPRESSION SYSTEM. COORDINATE WITH FIRE SUPPRESSION CONTRACTOR TO PROVIDE ALL COMPONENTS FOR A COMPLETE AND WORKING SYSTEM

HSAEngineering logo and contact information: 479 / 452 / 8922 office, 7405 Ellis St. Fort Smith, AR 72916, HSAConsultants.com



Hight Jackson
 ASSOCIATES
 5201 W Village Parkway, Suite 3001 Rogers, Arkansas 72768 | (479) 464-4965 | www.hjarch.com

A REMODEL FOR
BHS ANIMAL & PLANT SCIENCE
 BENTONVILLE, AR

DRAWN BY:
AS
 CHECK BY:
MR
 ISSUE DATE:
2/23/2026

PROJECT NO:
2540

REVISION DATES:
3/16/2026

ELECTRICAL DEMO PLAN

SHEET

E2.0

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DEMOLITION LEGEND

- ELECTRICAL DEVICES WITH BOLD OR 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 EXISTING TO REMAIN.

ELECTRICAL DEMOLITION GENERAL NOTES

1. FOR ALL DEVICES IN WALLS/MILLWORK BEING DEMOLISHED; DISCONNECT REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT, MAINTAIN CONTINUITY TO REMAINING DEVICES ON THAT CIRCUIT.
2. REMOVE ALL DEVICES IN CEILINGS THAT ARE TO BE DEMOLISHED; DISCONNECT AND REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
3. FOR ALL UNUSED CIRCUITS, REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR AREAS TO BE DEMOLISHED.
5. GRAYED OUT DEVICES SHOW EXISTING TO REMAIN DEVICE LOCATIONS.
6. DEVICES SHOWN AS BOLD OR DASHED ARE TO BE DEMOLISHED AND DISPOSED OF UNLESS OTHERWISE NOTED.
7. REMOVE POWER TO ALL EXISTING EQUIPMENT TO BE DEMOLISHED, COORDINATE WITH ALL TRADES.
8. FOR ALL EXISTING DEVICES, CHANGE OUT COVER PLATES TO STAINLESS STEEL.
9. FIELD VERIFY ALL EXISTING CONDITIONS.

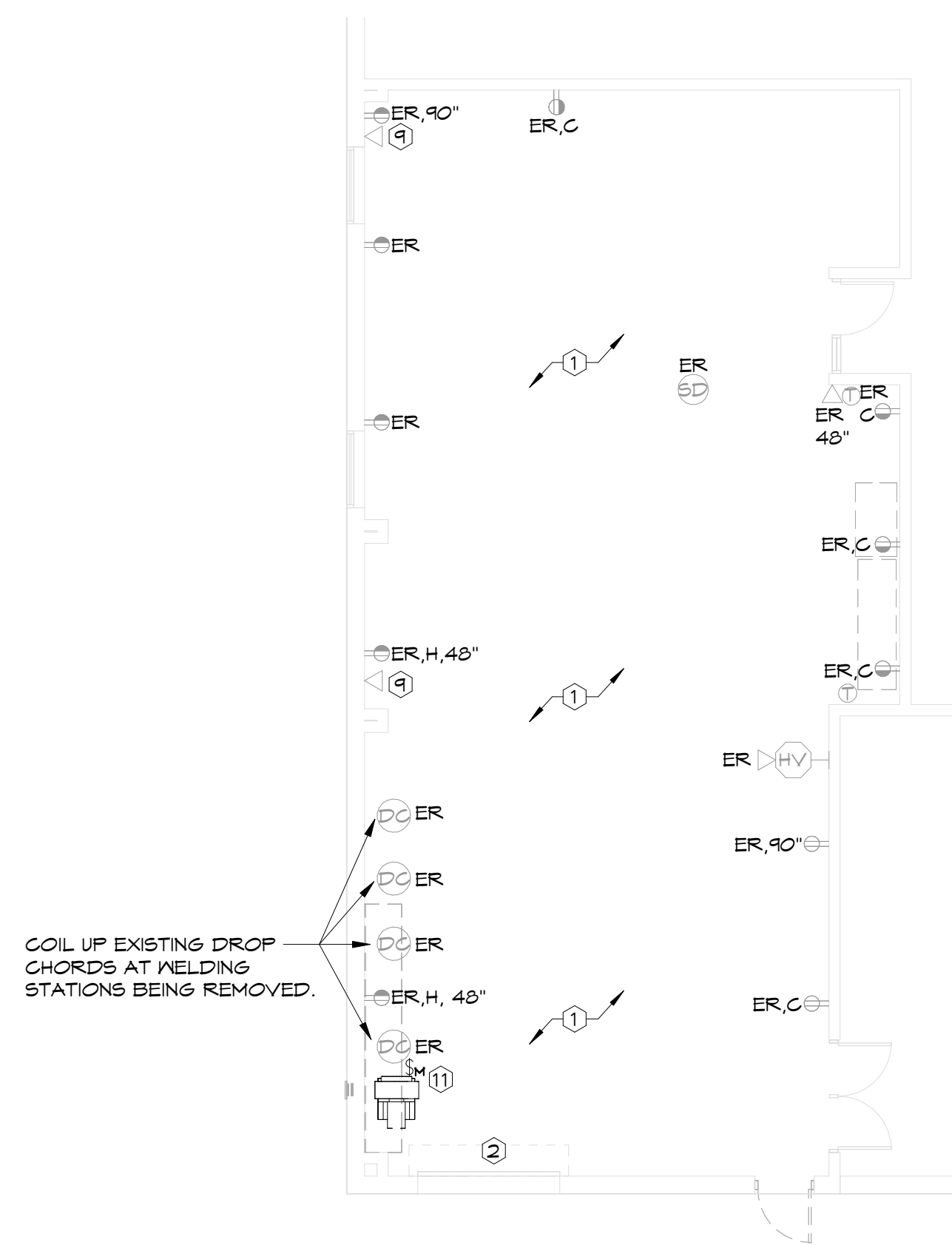
KEYED ELECTRICAL DEMOLITION NOTES

- ① EXISTING LIGHTS IN ROOM TO REMAIN.
- ② EXISTING OVERHEAD DOOR TO REMAIN.
- ③ WIREMOLD DATA FROM CEILING, TO BE REMOVED AND DISPOSED.
- ④ EXISTING LIGHTS TO BE REMOVED AND DISPOSED IN THIS AREA, TO BE REPLACED WITH NEW LED TYPE.
- ⑤ REMOVE ALL DEVICES IN WALLS/MILLWORK WHICH ARE TO BE DEMOLISHED, REMOVE ALL CONDUIT AND CONDUCTORS BACK TO PANEL AND LABEL AS SPARE.
- ⑥ REMOVE AND DISPOSE OF EXISTING ACCESS CONTROLS AND KEYPAD.
- ⑦ REMOVE COAXIAL CABLES HANGING FROM CEILING AND COMING OUT OF WALL BACK TO SOURCE.
- ⑧ REMOVE AND DISPOSE EXISTING FIRE ALARM DEVICE BY VENDOR CONTRACTOR.
- ⑨ EXISTING WIREMOLD DATA FROM CEILING TO REMAIN.
- ⑩ EXISTING EXTERIOR DOWNLIGHT TO BE REMOVED AND DISPOSED.
- ⑪ EXISTING EXHAUST FAN AND CONTROLS TO BE REMOVED.

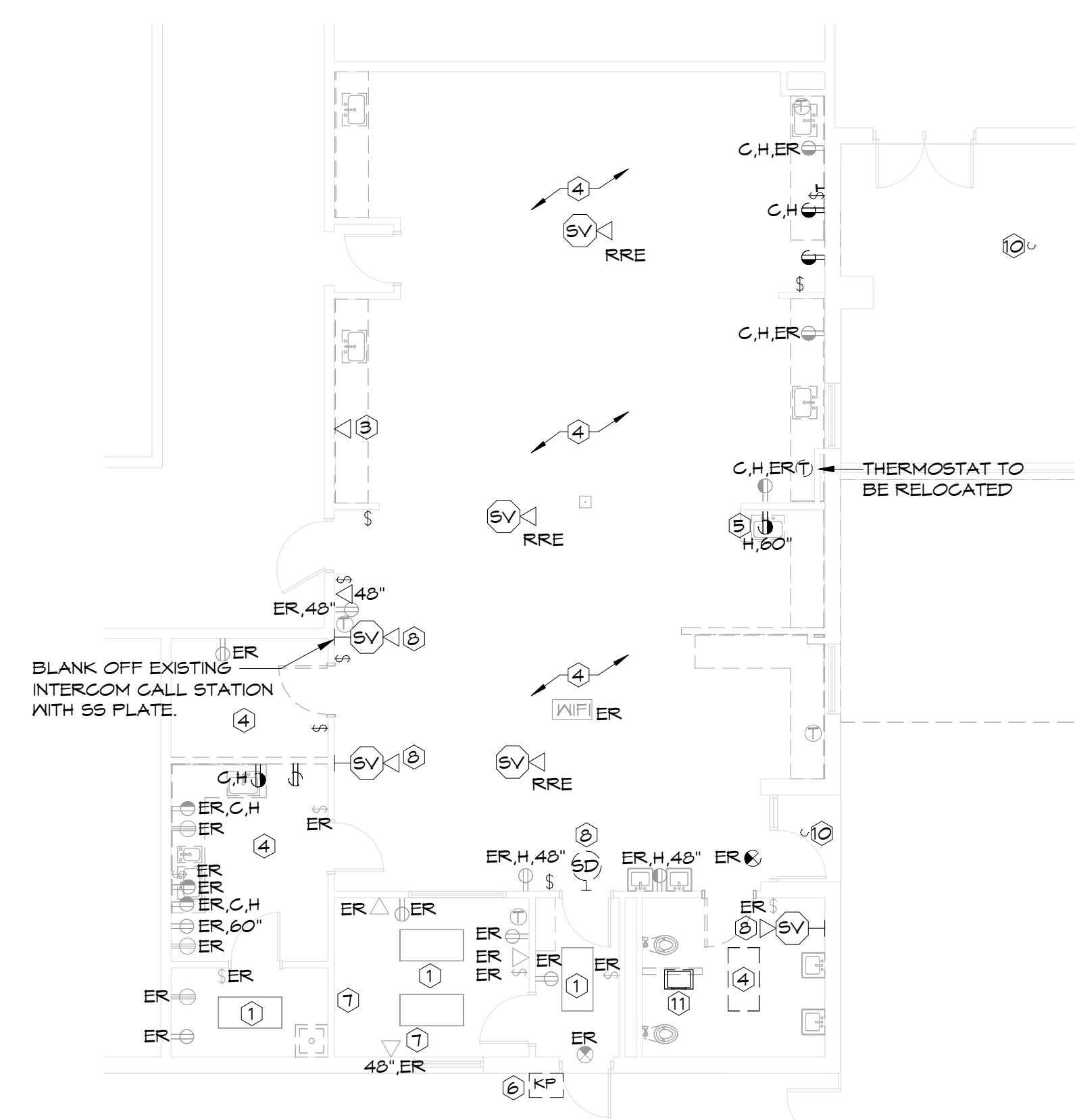
SUBSCRIPTS:
 ER= EXISTING TO REMAIN
 RE= REMOVE EXISTING
 RRE= REMOVE AND RELOCATE EXISTING



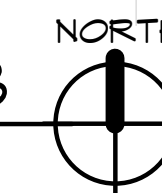
① OVERALL ELECTRICAL DEMOLITION PLAN
 1/16" = 1'-0"



② ELECTRICAL DEMOLITION PLAN AREA A
 1/8" = 1'-0"



③ ELECTRICAL DEMOLITION PLAN AREA B
 1/8" = 1'-0"



HSAEngineering
 479 / 452 / 8922 office
 7405 Ellis St.
 Fort Smith, AR 72916
 HSAConsultants.com

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Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 3001 Rogers, Arkansas 72768 | (479) 464-4965 | www.hjarch.com

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ELECTRICAL PLANS
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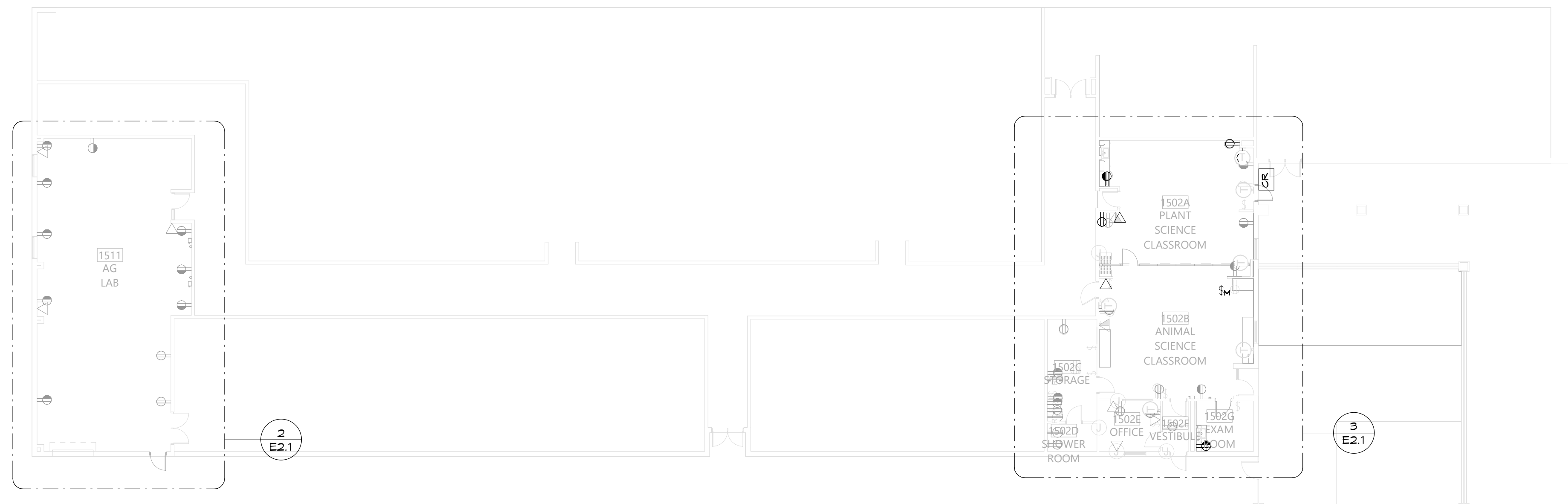
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MARK	VOLT	WATT	LAMP		MOUNTING				MANUFACTURER	CATALOG NO.	REMARKS
			CGT	TYPE	BRKT	PEND	REC	SURF			
A	UNV	57	4000K	LED				X	H.E. WILLIAMS	LT-24-LB2-/B40-AF-(L75)-DIM-UNV	2'X4' LED DIRECT INDIRECT TROFFER, 1500 LUMEN OUTPUT. 0-10V
B	UNV	28	4000K	LED				X	METALUX	24GZ2-T5HE-S-UNV-LB40-CD1-U	3000LM 12IN EXTERIOR DOWNLIGHT
⊗	UNV	5	N/A	LED				X	MULE LIGHTING	PVT-U-B-R-S/R-BA	EXIT SIGN
									SURE LITES	ARCEL-T-1-R-C-SS-SD	

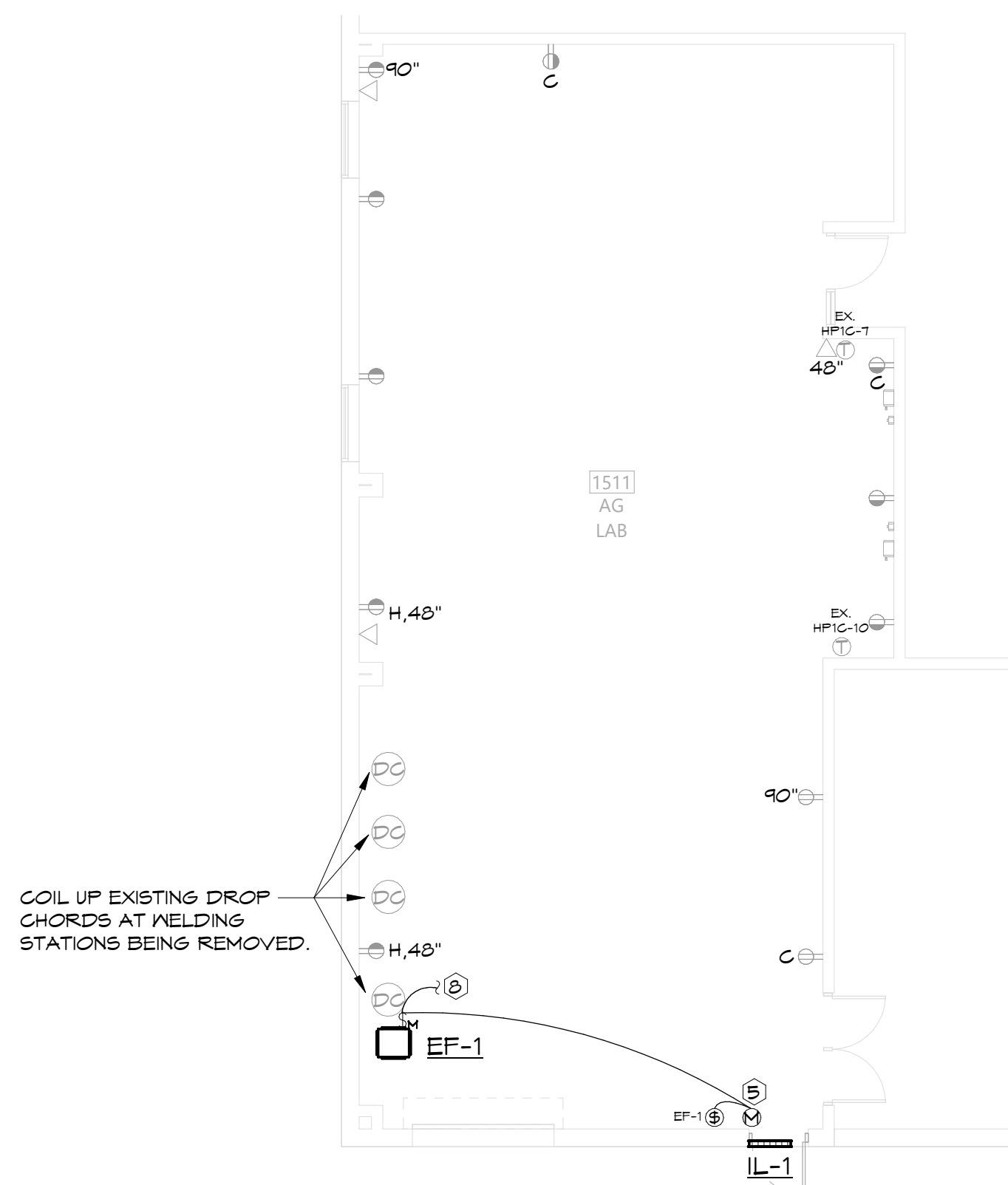
NOTES:
NOTE : HOLD ALL INSULATION OFF RECESSED FIXTURES AND A MINIMUM OF 3" TO THE SIDE.
NOTE : EXIT LIGHTS AND EMERGENCY LIGHTS REQUIRES UNSWITCHED HOT WIRE PER MANUFACTURER RECOMMENDATION.
NOTE : FIXTURES DENOTED BY EMD REQUIRE A DIMMING TYPE TRANSFER DEVICE, REFER TO DETAIL 1/ES.1.
NOTE : FIXTURES DENOTED BY EM REQUIRE A TRANSFER DEVICE, REFER TO DETAIL 2/ES.1.
NOTE : ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DRIVER AND LEDS THAT WILL PROVIDE
NOTE : THE OWNER WITH A FIVE YEAR WARRANTY.

KEYED ELECTRICAL NOTES

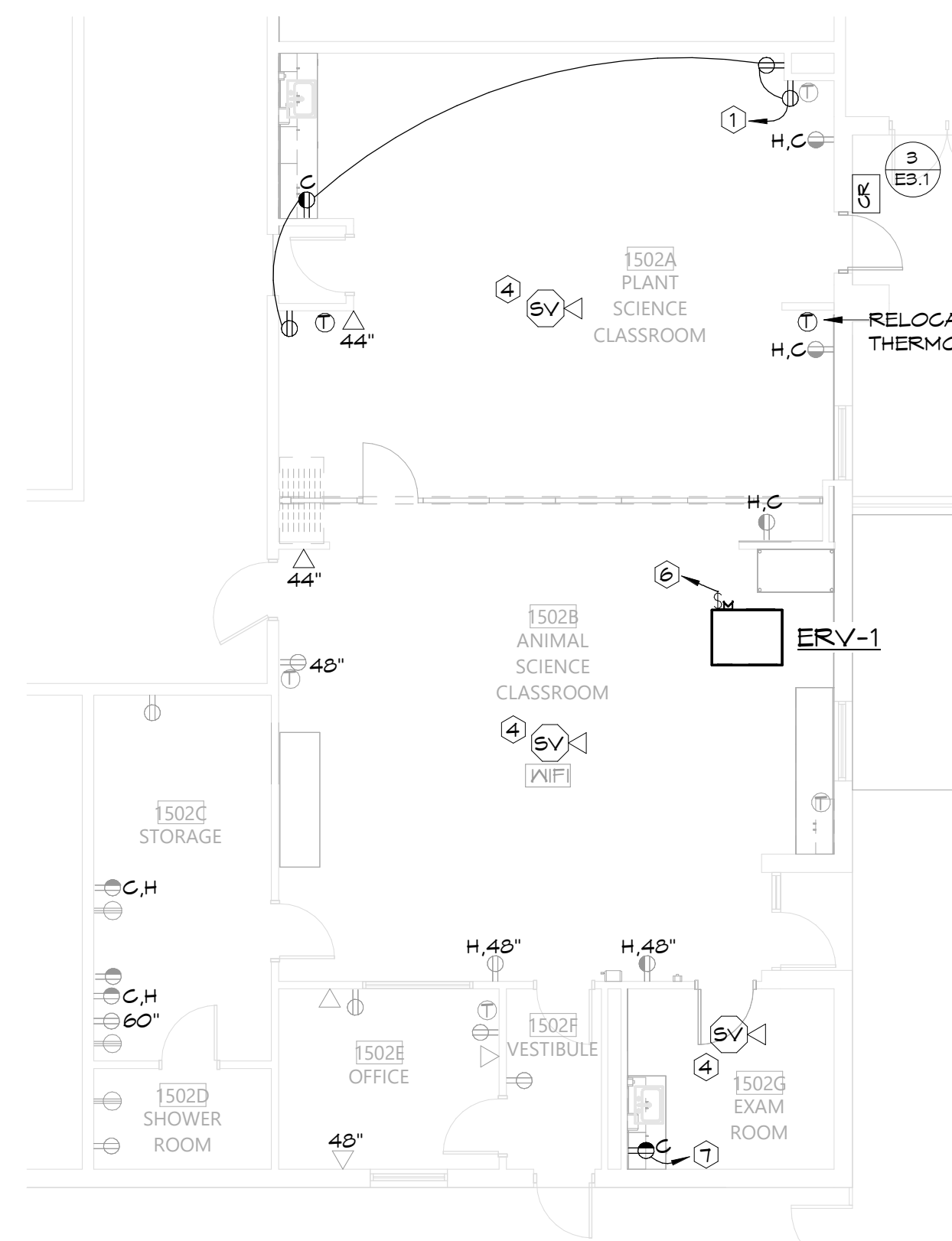
- ① REUSE EXISTING 20 AMP SINGLE POLE BREAKER IN PANEL 'L1C1'. REQUIRES 2-#12, 1-#12 GRD, 3/4" CONDUIT. FIELD VERIFY EXISTING CONDITIONS.
- ② REUSE EXISTING LIGHTING CIRCUIT. CONNECT TO EXISTING 20AMP SINGLE POLE BREAKER IN PANEL 'M161' LOCATED IN MAIN ELECTRICAL ROOM. REQUIRES 2-#12, 1-#12 GRD, 3/4" CONDUIT. FIELD VERIFY EXISTING CONDITIONS AND LOCATION.
- ③ REUSE EXISTING LIGHTING CIRCUIT. CONNECT TO EXISTING 20AMP SINGLE POLE BREAKER IN PANEL 'H161' LOCATED IN MAIN ELECTRICAL ROOM. REQUIRES 2-#12, 1-#12 GRD, 3/4" CONDUIT. FIELD VERIFY EXISTING CONDITIONS AND LOCATION.
- ④ RELOCATED FIRE ALARM DEVICE BY VENDOR CONTRACTOR.
- ⑤ INTERLOCK MOTORIZED INTAKE LOUVER (IL-1) WITH EXHAUST FAN (EF-1).
- ⑥ INSTALL 15AMP 2 POLE BREAKER IN PANEL 'L1C1'. REQUIRES 2-#12, 1-#12 GRD, 3/4" CONDUIT. FIELD VERIFY EXISTING CONDITIONS.
- ⑦ CONNECT TO NEAREST EXISTING RECEPTACLE CIRCUIT. PROVIDE 2-#12, 1-#12 GRD, 3/4" CONDUIT. FIELD VERIFY EXISTING CONDITIONS.
- ⑧ CIRCUIT TO SPARE 20 AMP SINGLE POLE BREAKER IN PANEL 'L1C1'. REQUIRES 2-#12, 1-#12 GRD, 3/4" CONDUIT. FIELD VERIFY EXISTING CONDITIONS.
- ⑨ CIRCUIT TO SPARE 20AMP SINGLE POLE BREAKER IN PANEL 'EM161' LOCATED IN MAIN ELECTRICAL ROOM. REQUIRES 2-#12, 1-#12 GRD, 3/4" CONDUIT. FIELD VERIFY EXISTING CONDITIONS AND LOCATION.
- ⑩ CONNECT EXISTING SWITCH TO NEW LIGHT FIXTURE.



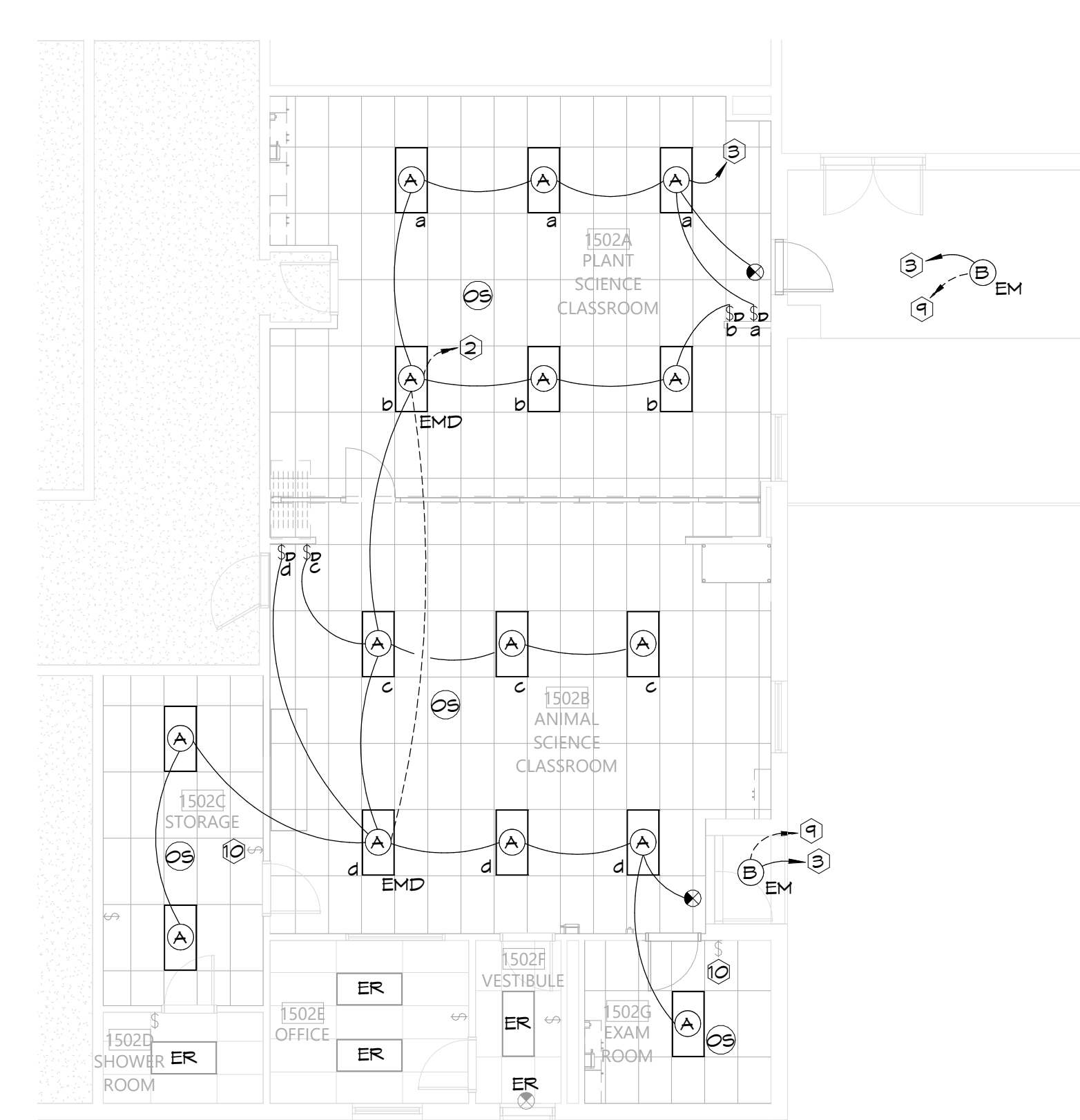
① OVERALL POWER PLAN
1/16" = 1'-0"



② POWER PLAN AREA A
1/8" = 1'-0"



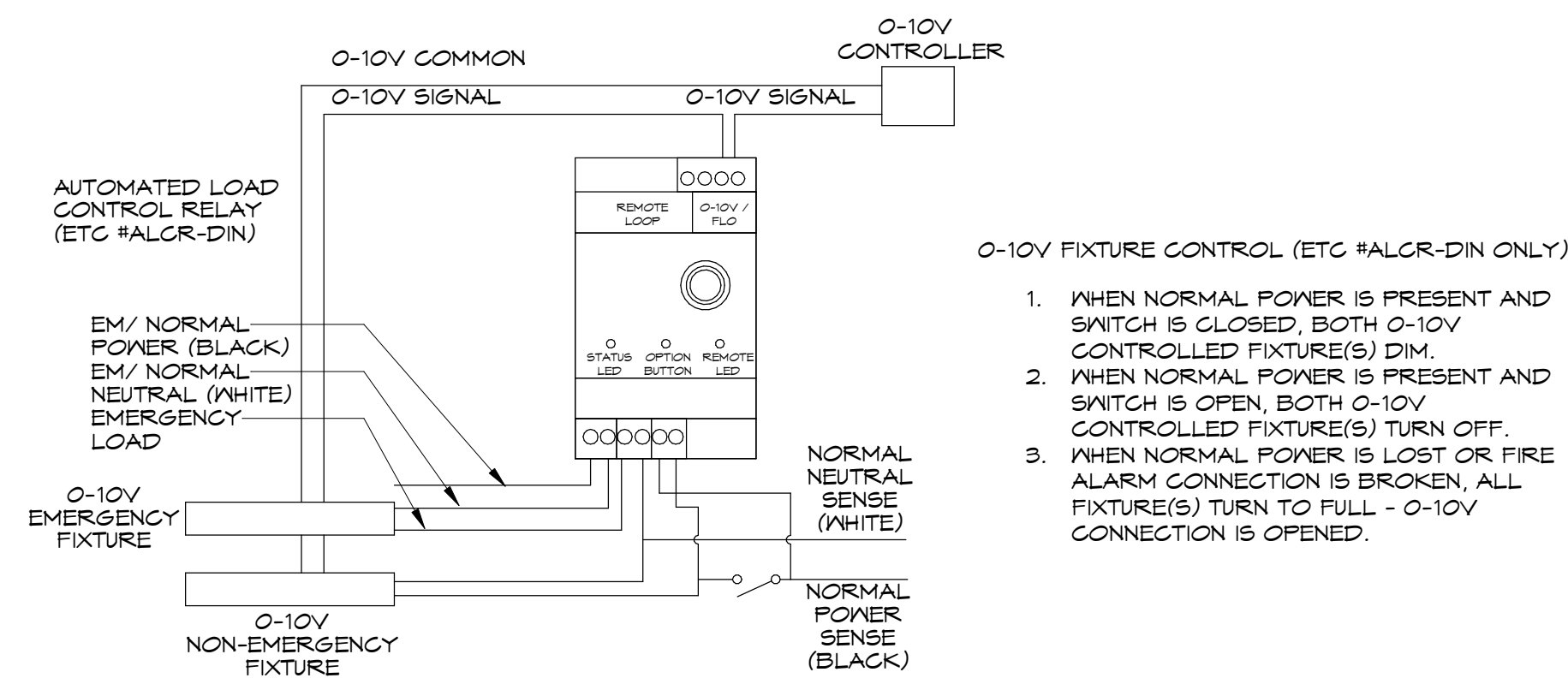
③ POWER PLAN AREA B
1/8" = 1'-0"



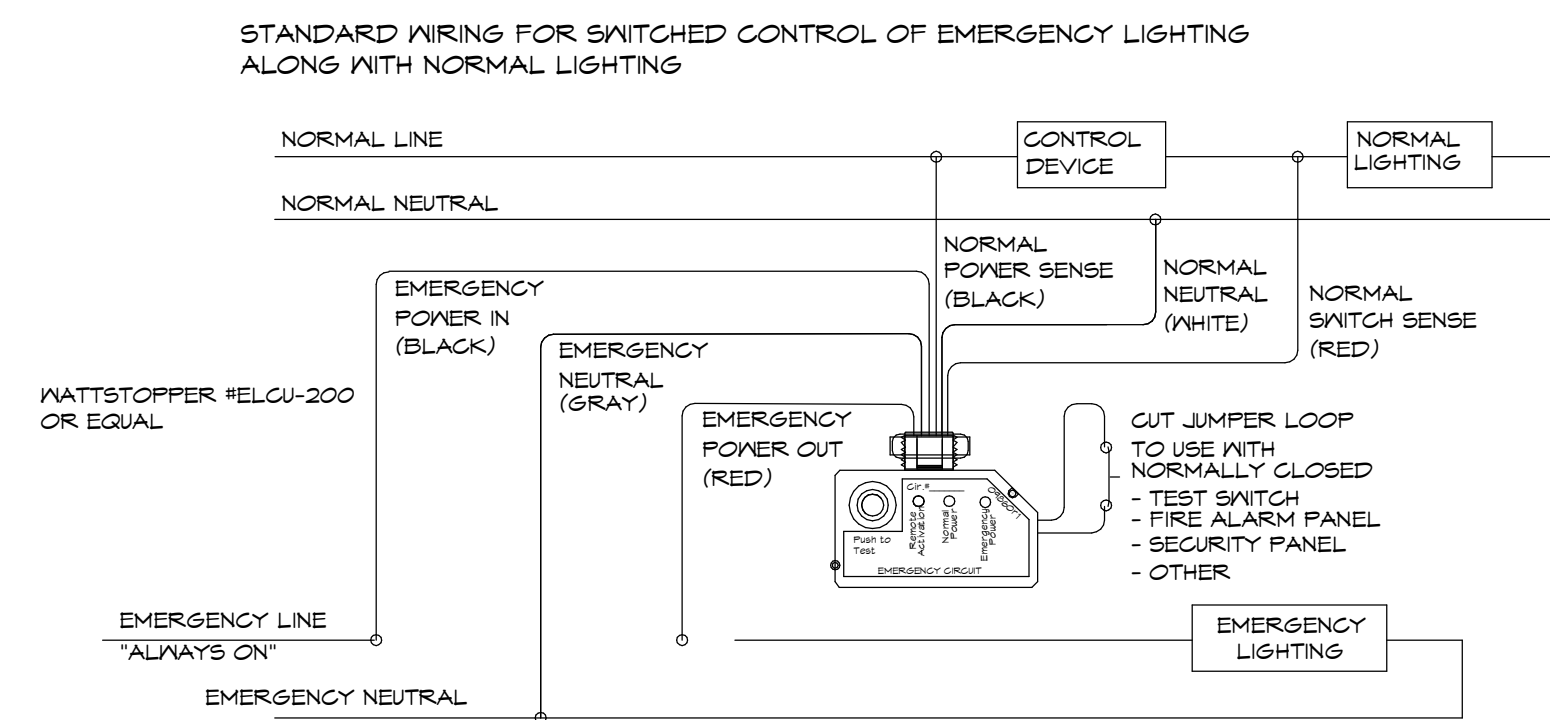
④ LIGHTING PLAN
1/8" = 1'-0"

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Fort Smith, AR 72916
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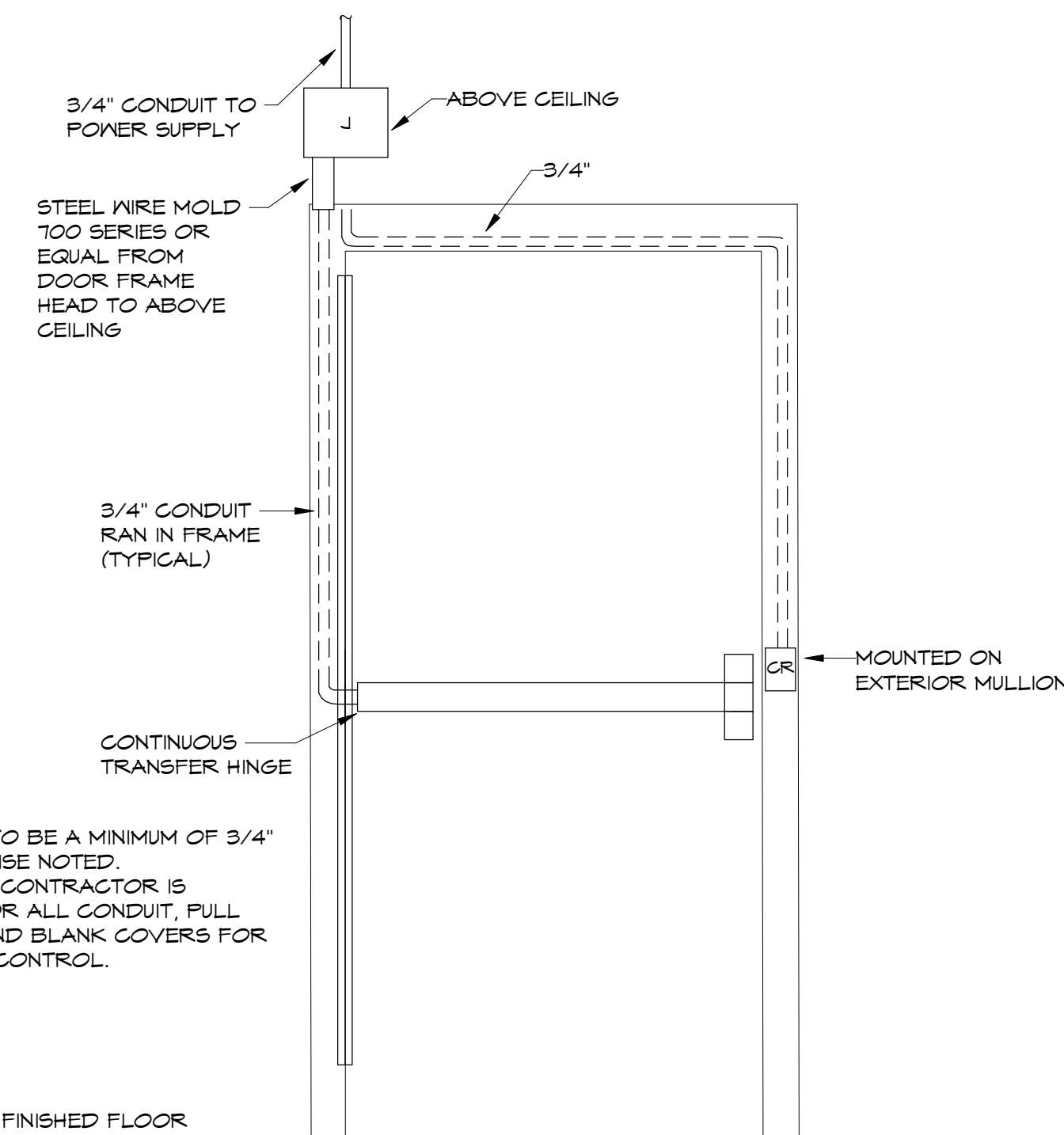
HSA JOB # 26-004



1 EM AUTOMATIC TRANSFER SWITCH DEVICE (DIMMING FIXTURES)
 N.T.S.



2 EM AUTOMATIC TRANSFER SWITCH DEVICE (NON-DIMMING)
 N.T.S.



- NOTES:
1. ALL CONDUIT IS TO BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED.
 2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, FULL ROPE, BOXES, AND BLANK COVERS FOR FUTURE ACCESS CONTROL.

3 ACCESS CONTROL DETAIL
 N.T.S.

HSA HSAEngineering
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 Fort Smith, AR 72916
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