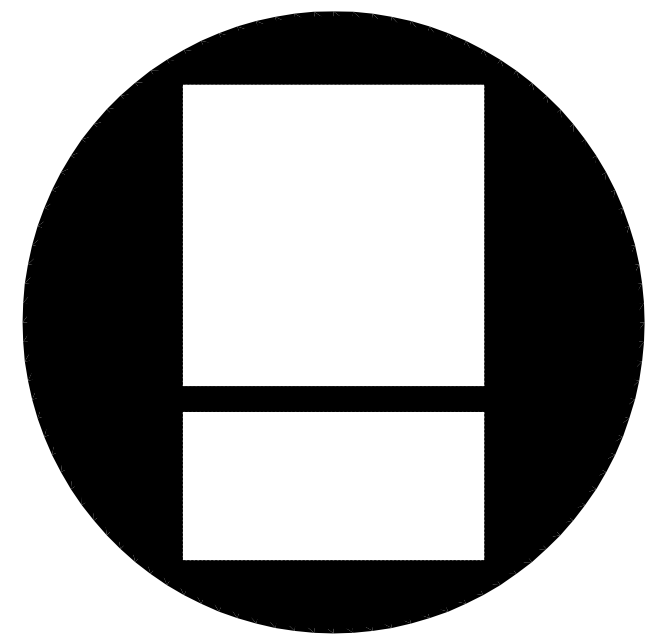


RPS PROJECT #2243
IFB# 22-22



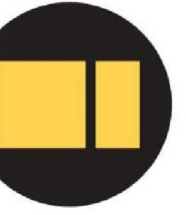
4949 Harrison Avenue Suite 100

Rockford, Illinois

JANUARY 21, 2022

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Architecture Engineering Interiors

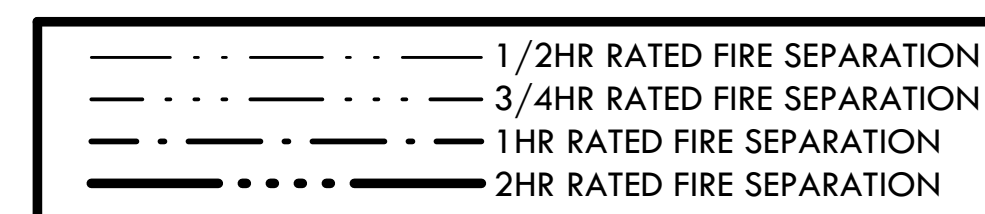


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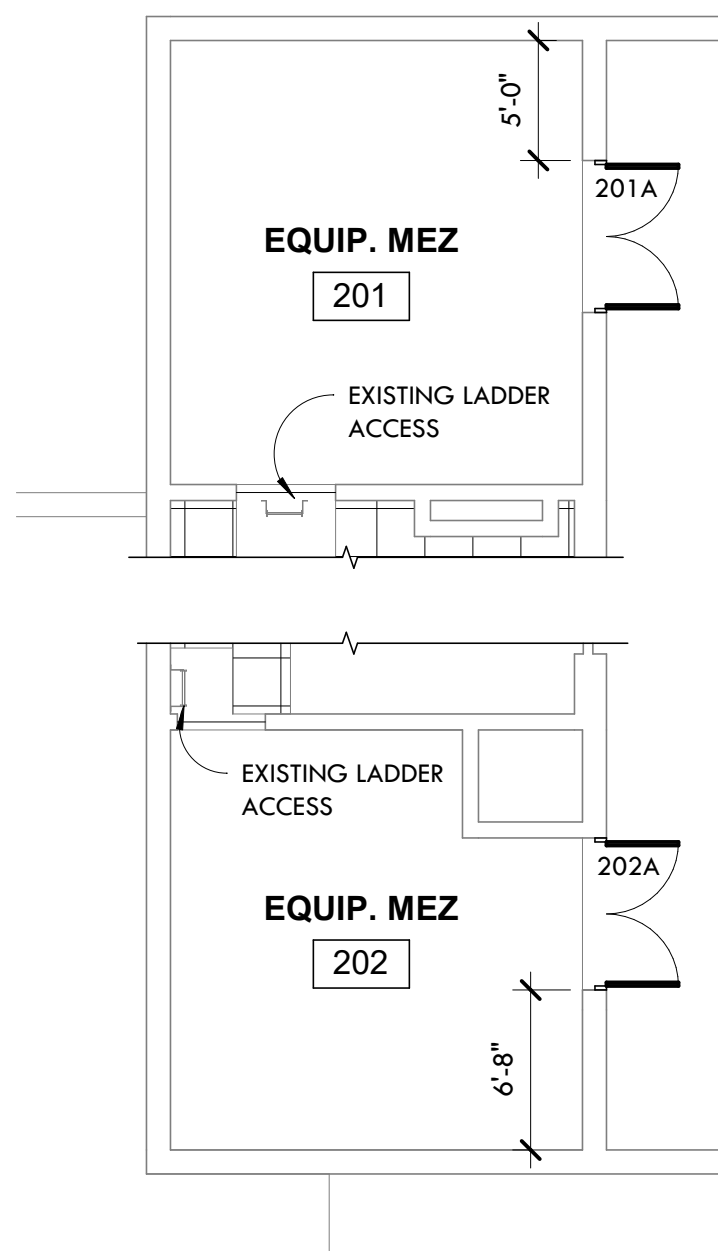
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PROJECT NUMBER	31029-02
SHEET NUMBER	CS

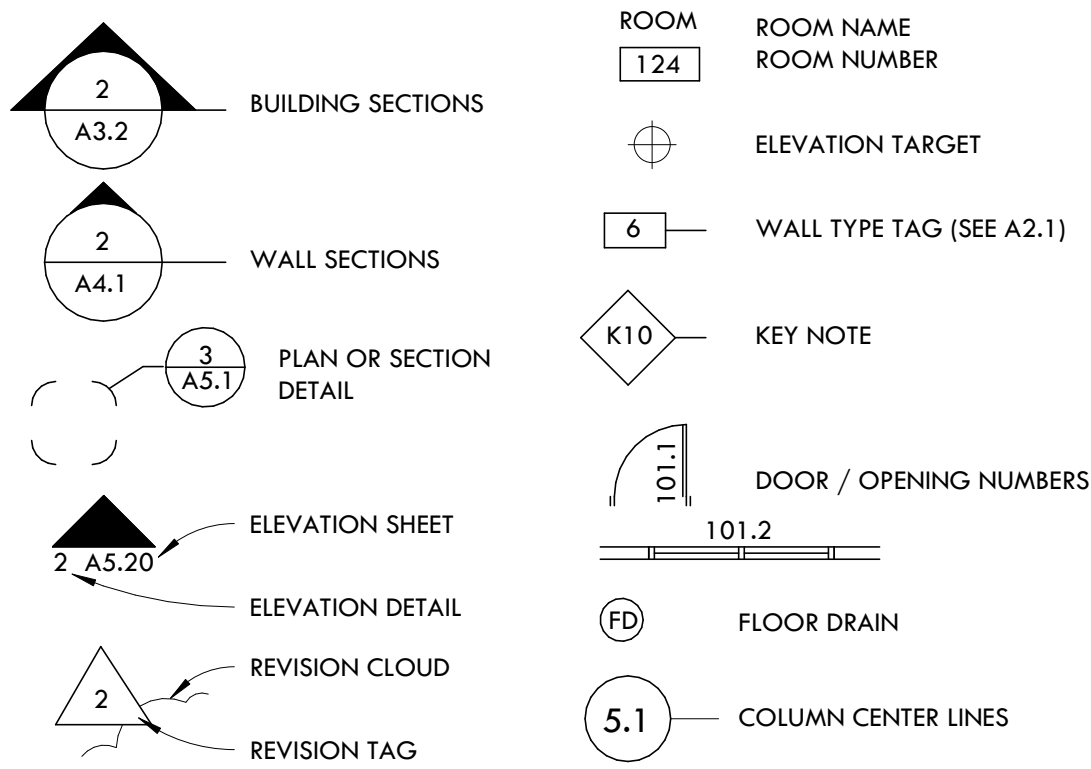


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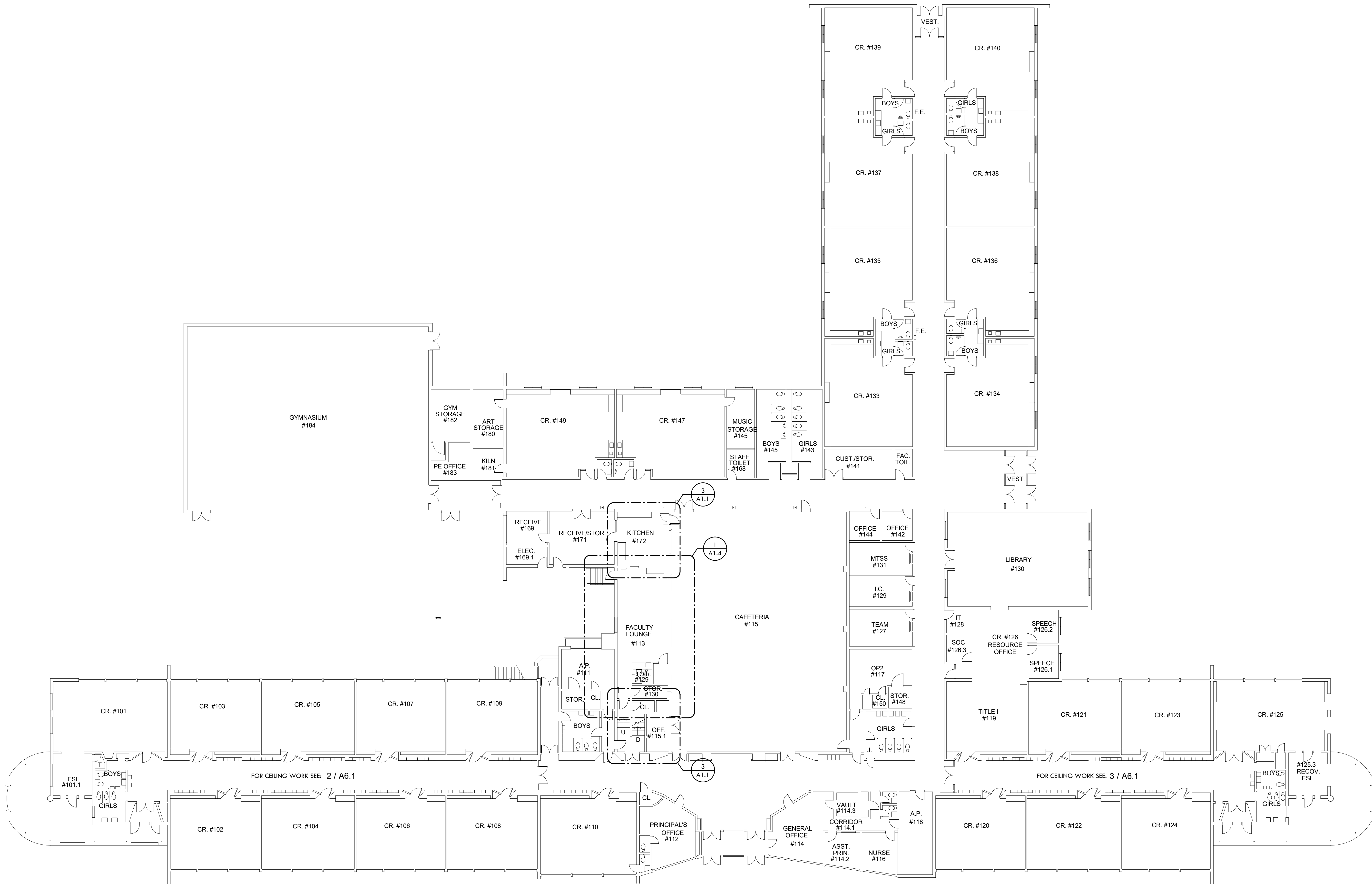
3 MEZZANINE PLAN
SCALE: 1/8" = 1'-0"

LEGEND - FLOOR PLAN

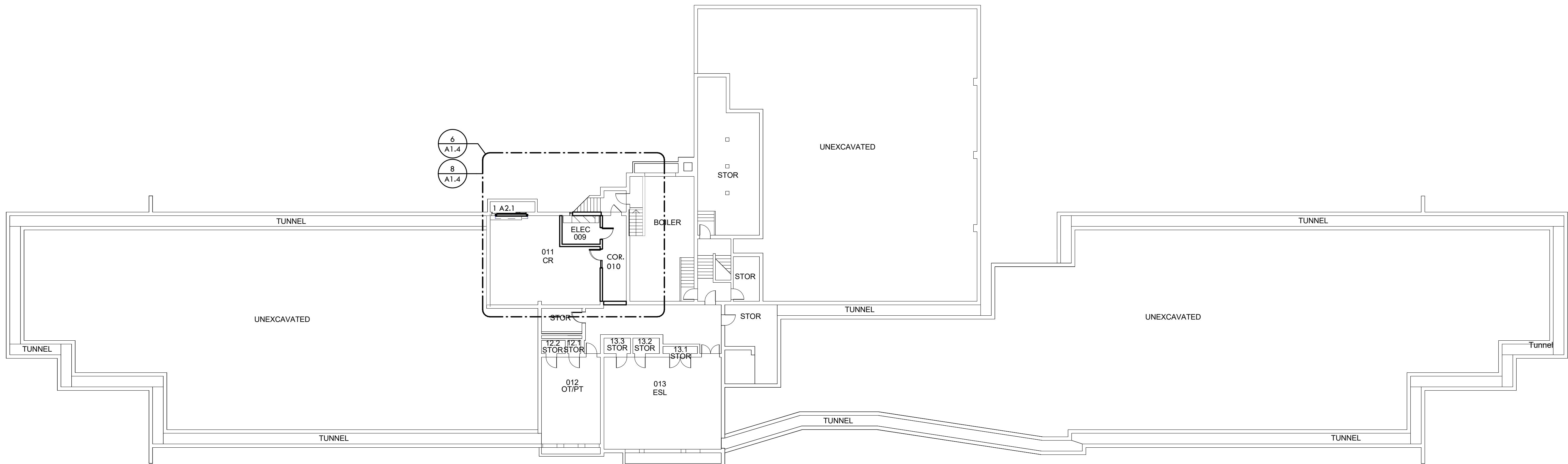


GENERAL NOTES - FLOOR PLAN

- DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).
- VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE. PORTIONS OF EXISTING CONSTRUCTION MAY HAVE BEEN REMOVED BY OWNER.
- MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH OWNER ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK OR ANY ASSOCIATED EQUIPMENT.
- REFER TO SHEET AB9X FOR ROOM FINISH SCHEDULE AND NOTES.
- REFER TO SHEET AB9X FOR DOOR SCHEDULES, DOOR TYPES, AND NOTES.
- DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL SCOPE CONCEPT OF THE PROJECT, AND AS SUCH DO NOT NECESSARILY INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS PRIOR TO BID. CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS REQUIRED FOR PROPER INSTALLATION OF WORK AND COMPLETE AND FUNCTIONING SYSTEMS.



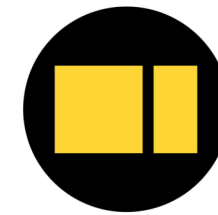
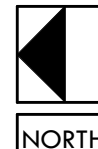
1 GROUND LEVEL FLOOR PLAN
SCALE: 1/16" = 1'-0"



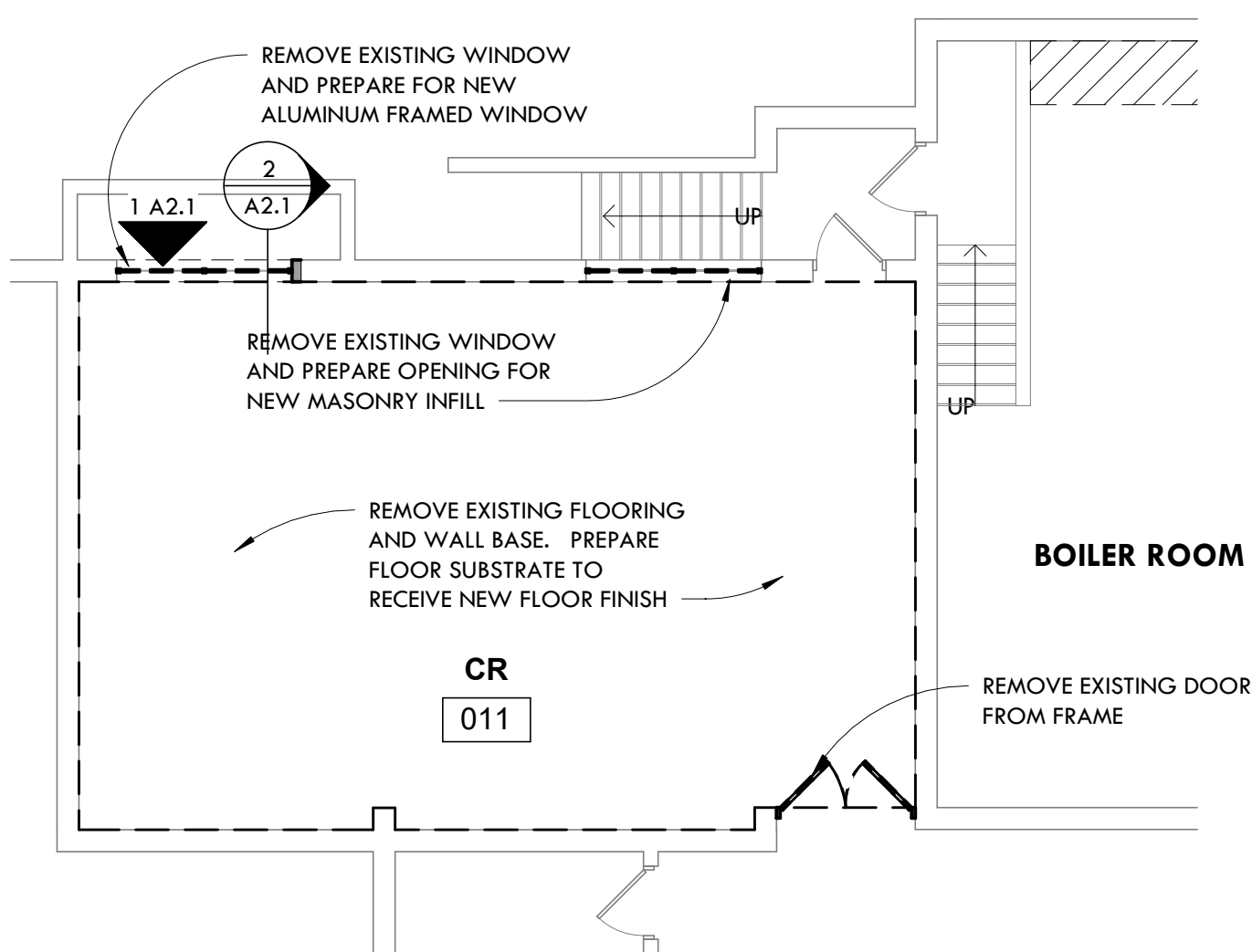
2 BASEMENT FLOOR PLAN
SCALE: 1/16" = 1'-0"

FLOOR PLANS

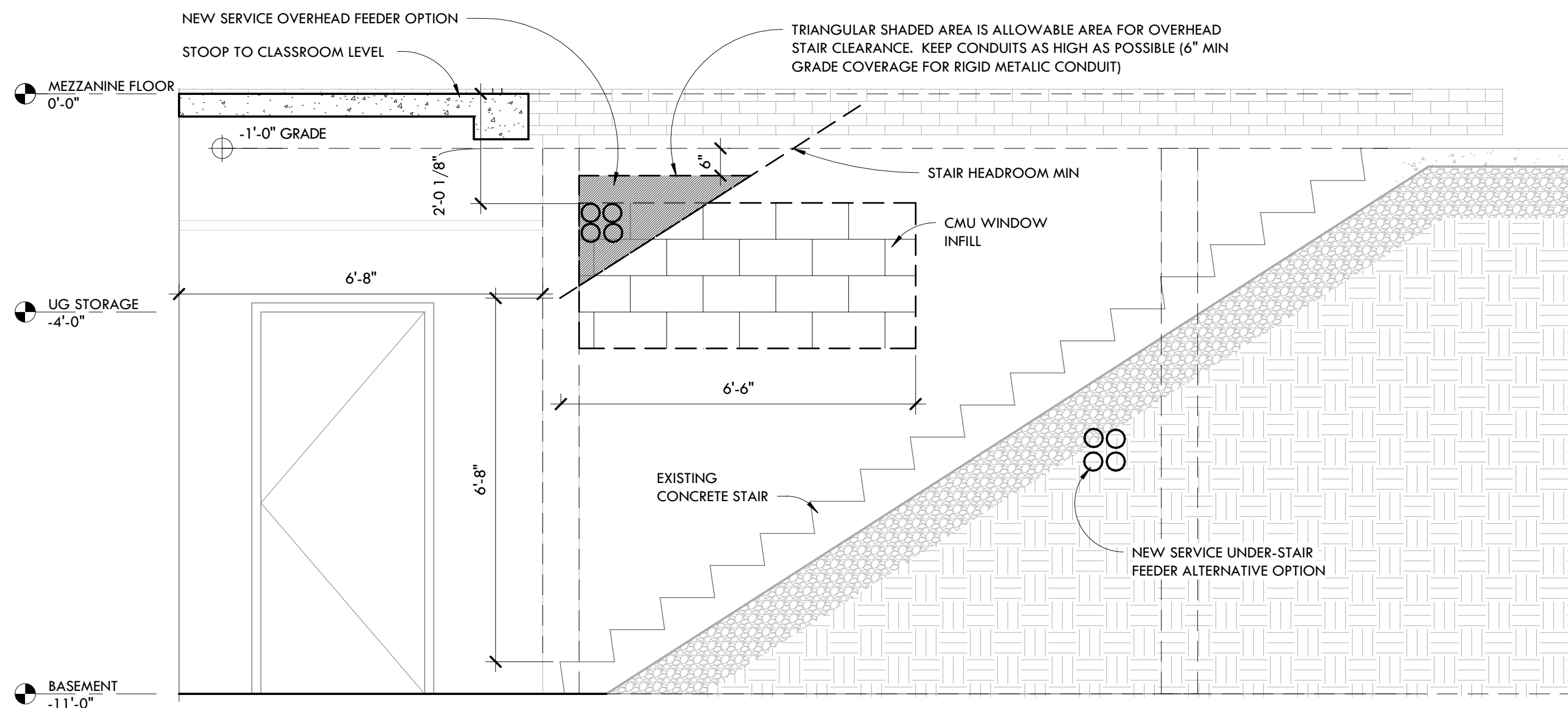
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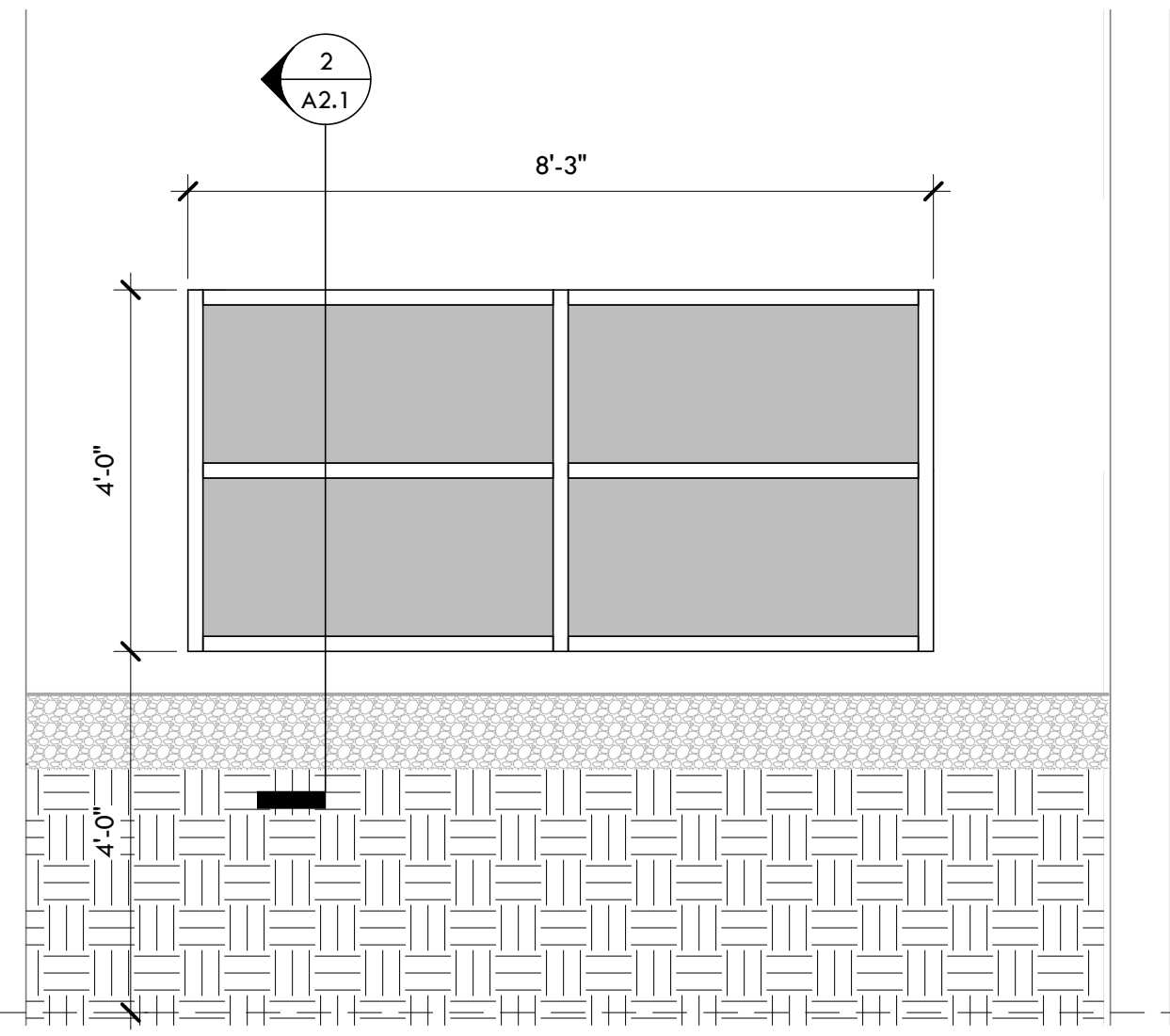
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Author	Checker	Approver			



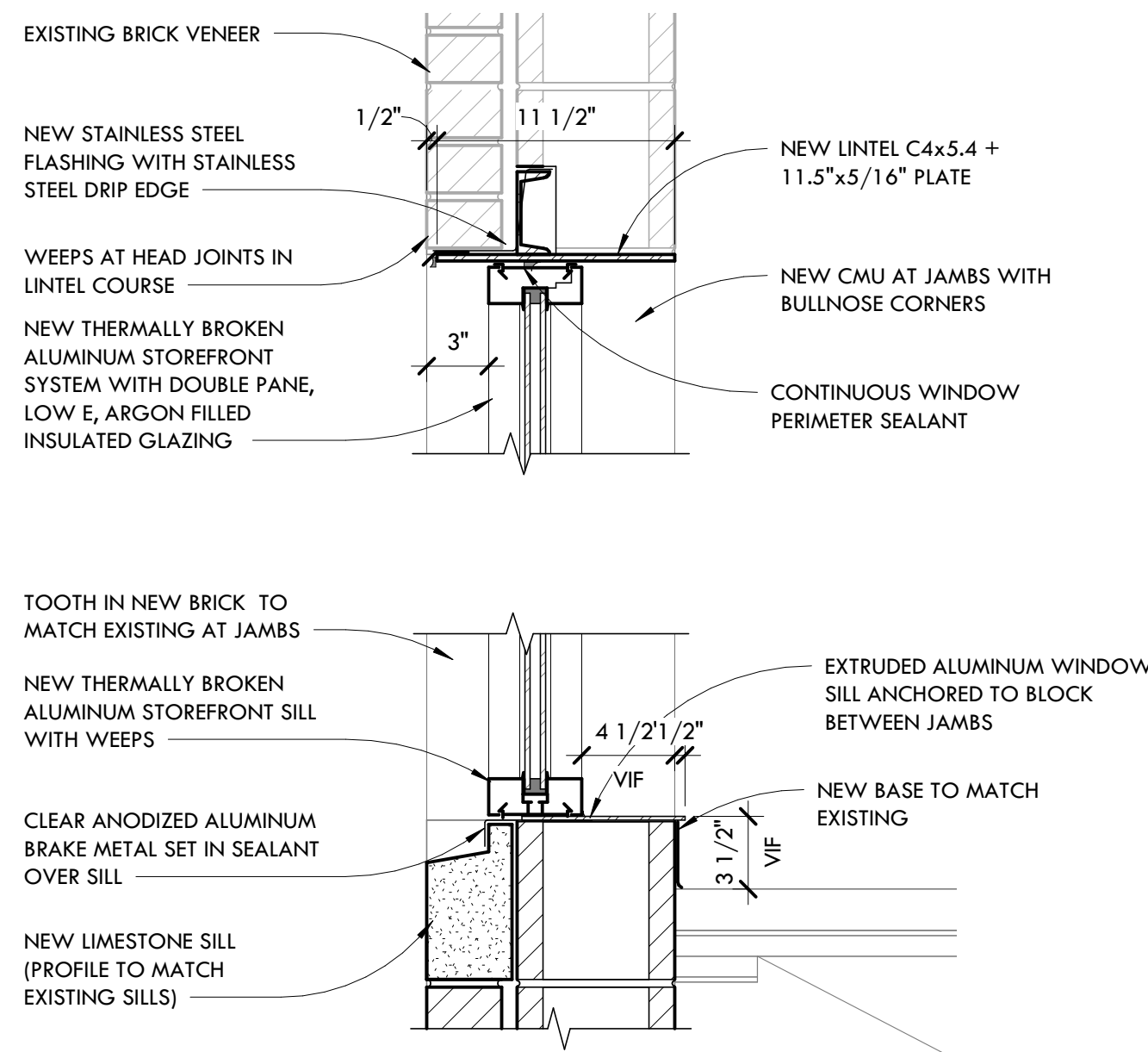
9 ART ROOM DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



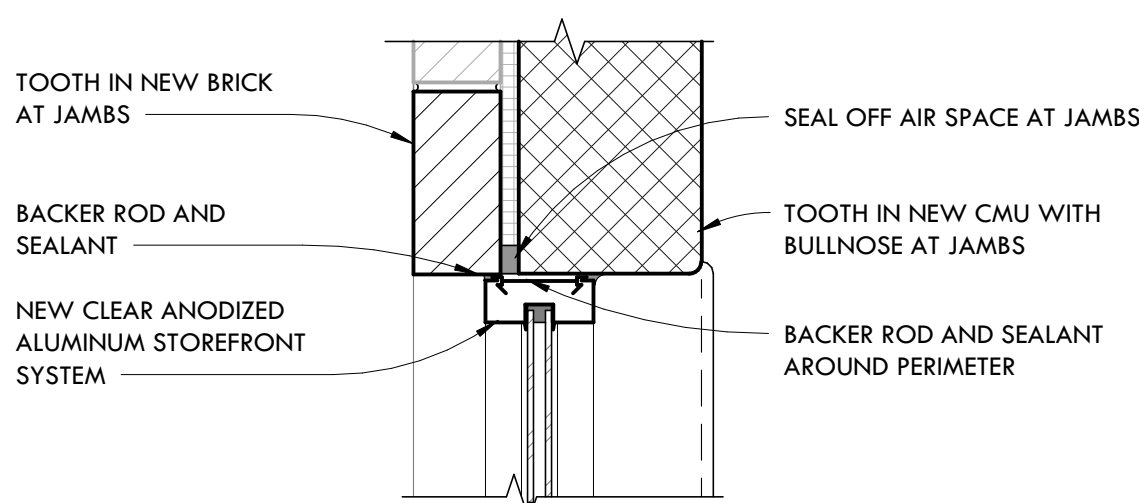
7 STAIRWELL SECTION
SCALE: 1/2" = 1'-0"



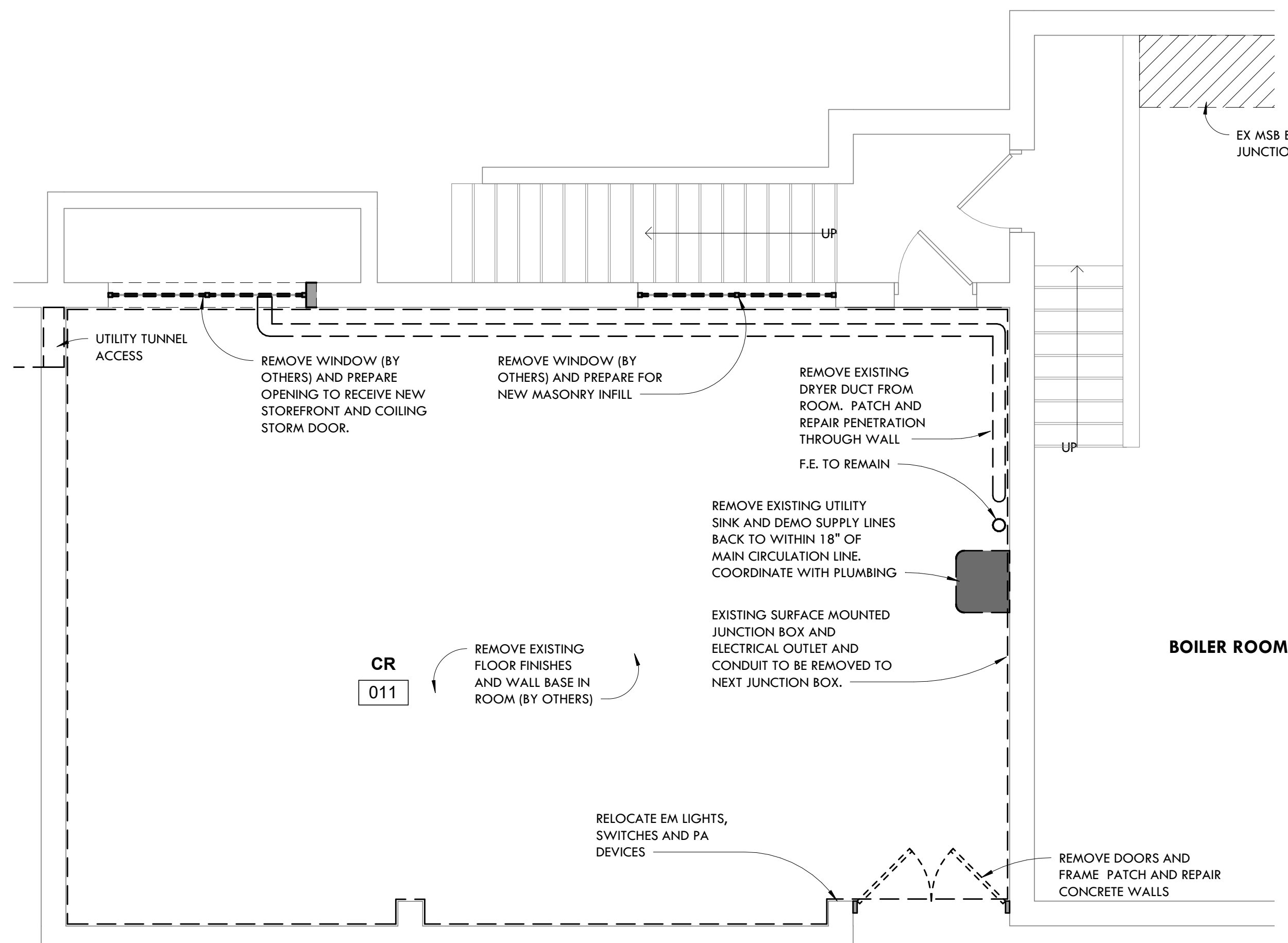
6 NEW ELECTRICAL ROOM PLAN
SCALE: 1/4" = 1'-0"



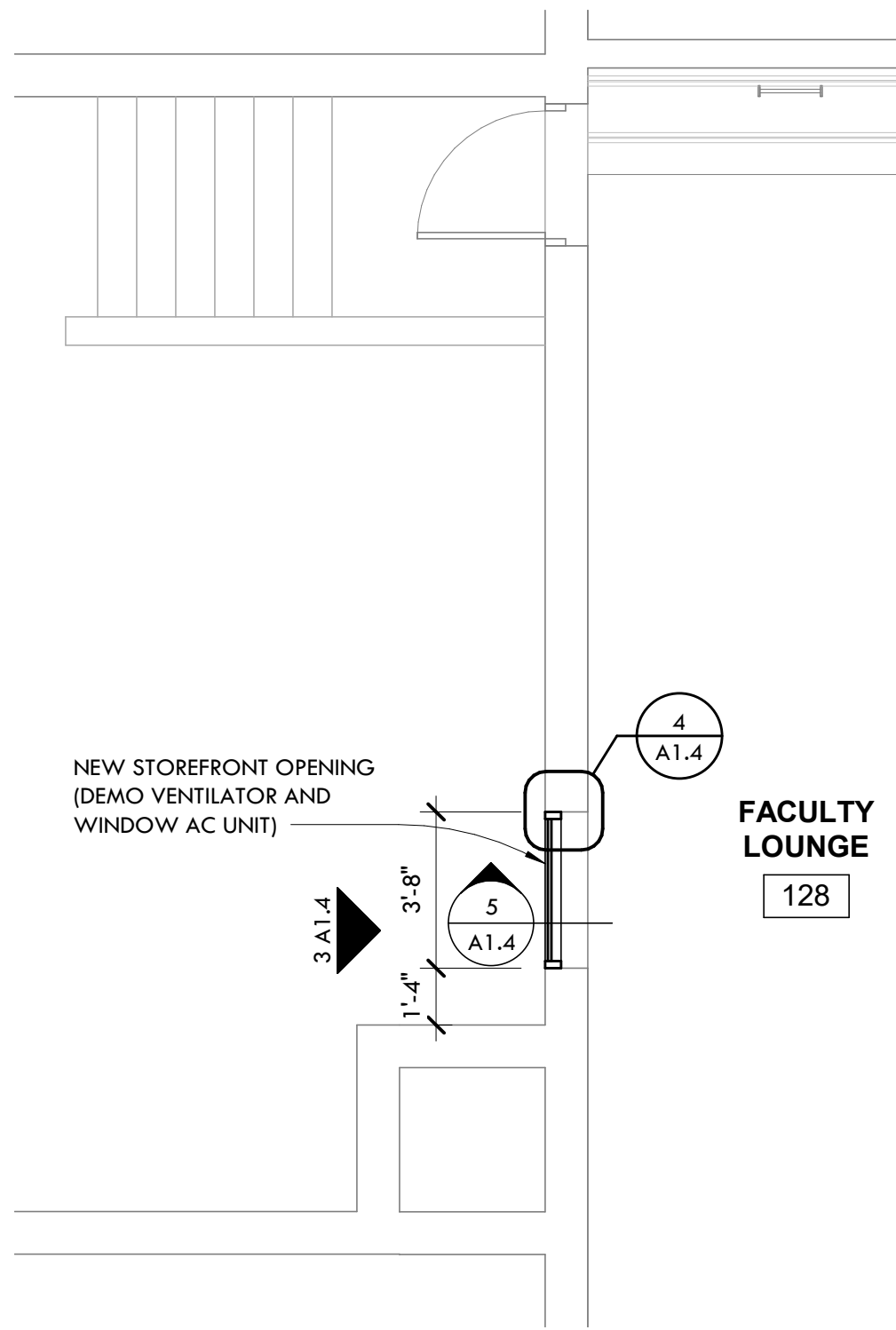
5 STOREFRONT SECTION
SCALE: 1 1/2" = 1'-0"



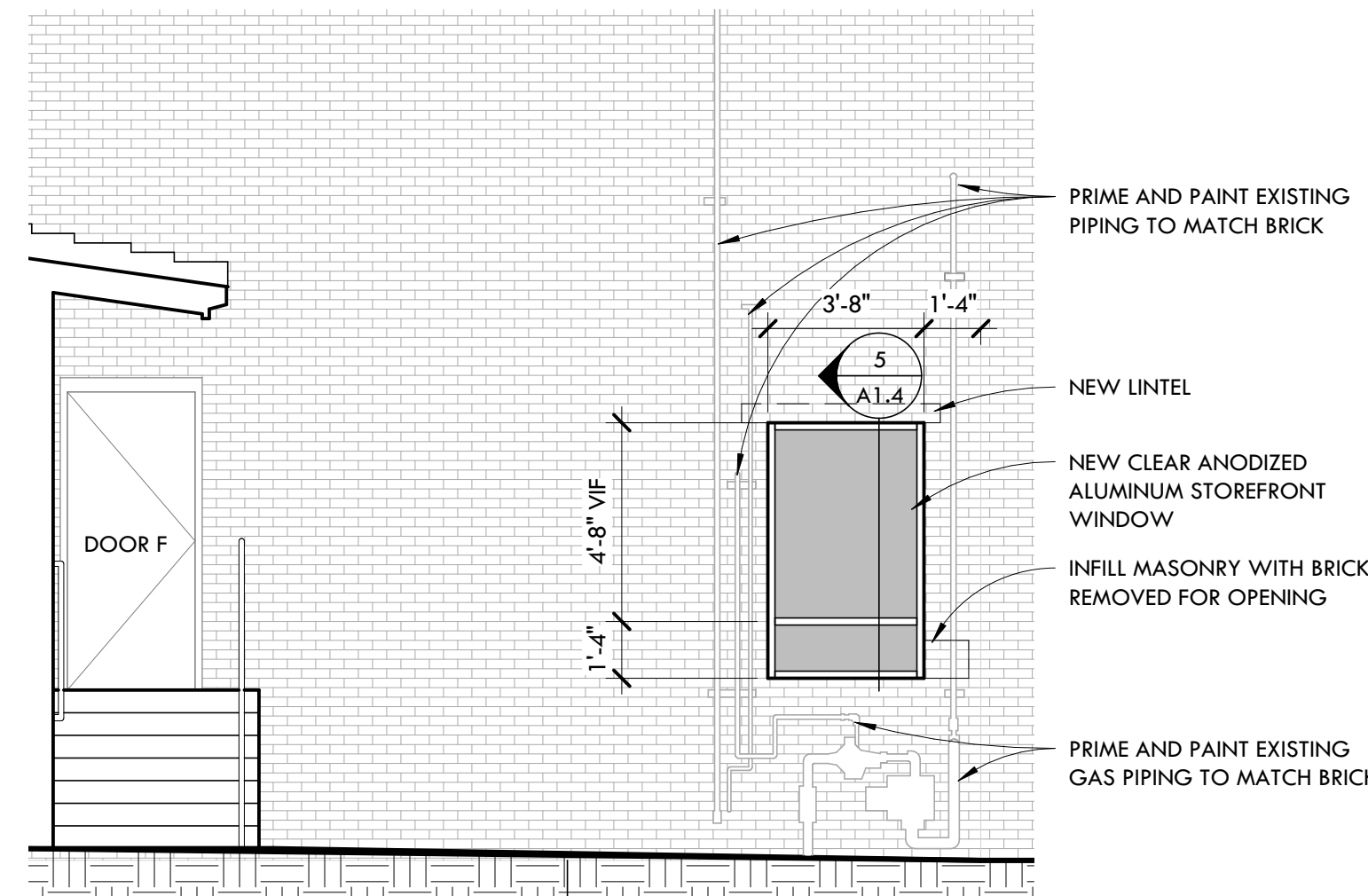
4 STOREFRONT JAMB
SCALE: 1 1/2" = 1'-0"



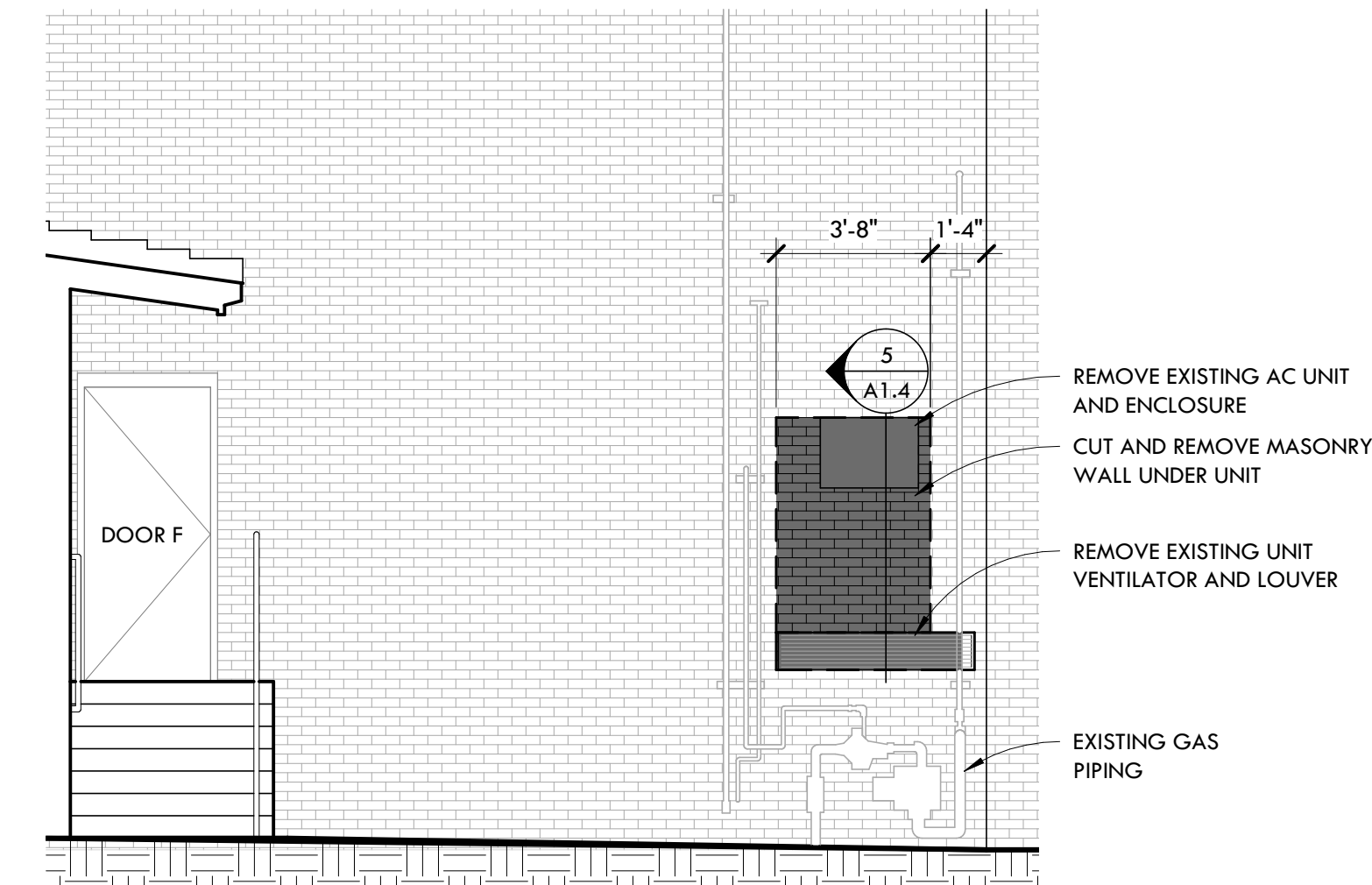
8 BASEMENT DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



1 FACULTY LOUNGE PLAN
SCALE: 1/4" = 1'-0"



3 NEW WINDOW ELEVATION
SCALE: 1/4" = 1'-0"



2 DEMO ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL NOTES - DEMOLITION

- BEFORE BEGINNING WORK AT THE SITE AND THROUGHOUT THE COURSE OF WORK, INSPECT AND VERIFY THE LOCATION AND CONDITION OF EVERY ITEM AFFECTED BY THE WORK UNDER THIS CONTRACT AND REPORT DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK RELATED TO THAT BEING INSPECTED.
- BEFORE BEGINNING WORK AT THE SITE, INSPECT THE EXISTING BUILDING AND DETERMINE THE EXTENT OF EXISTING FINISHES, SPECIALTIES, EQUIPMENT, AND OTHER ITEMS WHICH MUST BE REMOVED AND REINSTALLED IN ORDER TO PERFORM THE WORK UNDER THIS CONTRACT.
- THE ARCHITECTURAL DRAWINGS SHOW PRINCIPLE AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS DUE TO CHANGES AFFECTING EXISTING MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO PART OF THIS CONTRACT. INSPECT THOSE AREAS AND ASCERTAIN WORK NEEDED AND DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST.
- PROTECT EXISTING FINISHES TO REMAIN FROM DAMAGE.
- REPAIR, PATCH, OR REFINISH AS APPLICABLE TO MATCH ADJACENT EXISTING FINISHES, THOSE FINISHES DAMAGED OR NEWLY EXPOSED DURING PERFORMANCE OF THE WORK UNDER THIS CONTRACT.
- WHERE MATCH EXISTING IS INDICATED, NEW CONSTRUCTION OR FINISHES, SHALL MATCH THE EXISTING IN EVERY PARTICULAR.
- WHERE PERMANENT REMOVAL OF EXISTING CASEWORK, DOORS AND FRAMES, EQUIPMENT, OR FURNISHINGS IS REQUIRED AND PREVIOUSLY CONCEALED SURFACES ARE TO REMAIN EXPOSED, PATCH PREVIOUSLY CONCEALED SURFACES TO MATCH ADJACENT EXPOSED SURFACES. WHERE SUCH SURFACES ARE SCHEDULED TO RECEIVE NEW FINISHES, PREPARE THE SURFACES TO RECEIVE THE NEW FINISHES.
- WHERE CUTTING OF EXISTING SURFACES OR REMOVAL OF EXISTING SURFACES IS REQUIRED TO PERFORM THE WORK UNDER THIS CONTRACT, AND NEW FINISH IS NOT INDICATED, FILL RESULTING OPENINGS AND PATCH THE SURFACE AFTER DOING THE WORK AND FINISH TO MATCH ADJACENT EXISTING SURFACES.
- REFER TO NEW WORK PLANS TO COORDINATE EXTENT OF DEMOLITION REQUIRED.
- REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL DEMOLITION REQUIRED. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF CONFLICT OR DISCREPANCY WITH ITEMS INDICATED TO BE REMOVED.
- WHERE NOT SPECIFICALLY NOTED, CONTRACTOR SHALL MODIFY EXISTING FLOORING AND CEILING CONSTRUCTION TO REMAIN AS REQUIRED TO ABUT NEW CONSTRUCTION AND MATCH ADJACENT EXISTING CONDITIONS.
- COORDINATE SLAB REMOVAL AND REPLACEMENT WITH PLUMBING AND ELECTRICAL UNDERGROUND AND IN-SLAB WORK.
- WHERE AN ITEM IS SHOWN TO BE REMOVED OR DEMO'D ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE REMOVED WITH IT UNLESS. PIPING SHALL BE REMOVED TO WITHIN NEAREST WALL TO REMAIN AND CAPPED. ELECTRICAL WIRING AND CONDUIT SHALL BE REMOVED BACK TO NEAREST JUNCTION BOX TO REMAIN. DUCTS AND TERMINALS SHOULD BE REMOVED AS FAR AS NECESSARY FOR NEW DISTRIBUTION SYSTEM OR COMPONENTS TO THE INFO, OR CAP WITHIN CONCEALED SPACE.

DETAILS

SCALE: AS NOTED



DATE	ISSUED FOR:	DATE	ISSUED FOR:	DATE	ISSUED FOR:
01/21/22	PROJECT NUMBER		DATE		DATE
31029-02					
SHEET NUMBER					
A1.4					
DRAWN BY:	CHECKED BY:	APPROVED BY:			
Author	Checker	Approver			

ENGINEERING SERVICES - ROCKFORD IL
ROCKFORD PUBLIC SCHOOL DISTRICT 205
RIVERDAHL ELEMENTARY SCHOOL (RPS#2243, IFB22-22)

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SCHEDULE - DOOR OPENINGS														
OPENING NUMBER	FRAME			DOOR			DOOR PAIR	WIDTH	HEIGHT	DETAILS	FIRE RATING	HARDWARE	GLAZING	DOOR COMMENTS
	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH								
009A	2	HM	P	F	STL	P	No	3'-0"	7'-0"		1HR	2	-	
011A	4	HM	P	NG	WD	STN	No	3'-0"	7'-0"		1HR	1	G4	DOOR AND FRAME GLAZING SIZES SHOULD MATCH DIMENSIONS OF CLASSROOMS ON MAIN FLOOR LEVEL. ALL DOOR AND FRAME GLAZING SHALL BE RATED FIRELITE GLASS
011B	-	STL	P	CC	STL	P	No	8'-6"	4'-6"	2/A2.1	NA	-	-	DOOR TO RECEIVE MANUFACTURERS FACTORY FINISH, COLOR SELECTED BY ARCHITECT. DOOR SHALL BE MANUAL OPERATION WITH SPRING ASSIST AND PULL STRAP. CONTRACTOR TO PROVIDE SILL ANGLE. SILL AND JAMB STEEL TO BE PAINTED TO MATCH WALL. DOOR SHALL BE RATED FOR STORM PROTECTION.
201A	2	HM	P	F	STL	P	Yes	6'-0"	7'-0"		1HR	3	-	
202A	2	HM	P	F	STL	P	Yes	6'-0"	7'-0"		1HR	3	-	

SCHEDULE - ROOM FINISH														
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	N. WALL FINISH	S. WALL FINISH	E. WALL FINISH	W. WALL FINISH	CEILING MATERIAL	CEILING FINISH	CEILING HEIGHT	CABINETRY	COUNTER	TOILET PARTITION	ROOM FINISH NOTES
201	EQUIP. MEZ													Prime and paint all new construction on gym side of wall
202	EQUIP. MEZ													Prime and paint all new construction on gym side of wall
009	ELEC	LVT	RB	P	P	P	P	ES	P	10'-3"	-	-	-	
011	CR	LVT	RB	P	P	P	P	ACP1	-	8'-6"	-	-	-	
010	COR	LVT	RB	P	P	P	P	ACP1	-	8'-6"	-	-	-	

SCHEDULE - MATERIAL					
CODE	MATERIAL	MANUFACTURER	PRODUCT NUMBER	DESCRIPTION	REMARKS
ACP1	ACOUSTIC CEILING PANEL EXPOSED STRUCTURE	USG	MARS HIGH NRC R88135	WHITE	2'-2-7/8" SLT EDGE; 85 /35 - NRC /CAC
HM	HOLLOW METAL DOOR FRAME	SEE SPECIFICATION			PRIME AND PAINT EXPOSED STRUCTURE FIELD PAINT COLOR PUNCH / DIMPLE ANCHOR FRAME 5 3/4" FILL AND SAND DIMPLES
LVT	LUXURY VINYL TILE	INTERFACE	STUDIO SET A007	COLOR: PEWTER A00702	
P	PRIME AND PAINT	SEE SPECIFICATION		MATCH EXISTING	FIELD COLOR IS INDICATED AS "NATURAL CHOICE" ON PREVIOUS PLANS. ACCENT COLOR ON WINDOW WALLS OF CLASSROOMS: BLUE SKY
RB	RESILIENT BASE	ROPPE	4" RUBBER BASE-COVED	COLOR: BLACK	
SC	SEALED CONCRETE	SEE SPECIFICATION			ARCHITECT SHALL SELECT FROM MANUFACTURERS FULL RANGE OF COLOR PIGMENTS
STL	STEEL	SEE SPECIFICATION			
STN	STAIN AND SEAL	SEE SPECIFICATION			STAIN AND SEALER TO MATCH EXISTING SIMILAR CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING DOORS PRIOR TO BID.
WD	WOOD DOOR PANEL	SEE SPECIFICATION			WOOD DOORS SHALL MATCH THE EXISTING CLASSROOM DOORS. CONTRACTORS SHALL FIELD VERIFY EXISTING DOOR SPECIES, CUT, AND FINISH PRIOR TO BID.

SCHEDULE - RESOURCE				
PRODUCT/MANUFACTURER	CONTACT NAME	CONTACT INFORMATION	REMARKS	
-	-	-	-	-

SCHEDULE - LINTEL					
MARK	SIZE	MAXIMUM OPENING	SHAPE	WALL THICKNESS	REMARKS
L-1	L 3 1/2 x 3 x 1/4 L 3 1/2 x 2 1/2 x 1/4	4'-0"	JL	6" or 8"	
L-2	WT4x9	6'-0"	┴	6"	
L-3	WT4x10.5	8'-0"	┴	6"	
L-4	(2) L 3 1/2 x 3 1/2 x 1/4 PL	6'-0"	JL	8"	
L-5	(2) L 5 x 3 1/2 x 5/16	8'-0"	JL	8"	
L-6	C6x8.2 + 7 1/2 x 1/4 PL	10'-0"	┴	8"	
L-7	C8x11.5 + 7 1/2 x 1/4 PL	12'-0"	┴	8"	
L-8	C4x5.4 + 9 1/2 x 1/4	4'-0"	┴	10"	
L-9	C6x8.2 + 9 1/2 x 1/4 PL	8'-0"	┴	10"	
L-10	C8x11.5 + 9 1/2 x 5/16	10'-0"	┴	10"	
L-11	W8x15 + 9 1/2 x 1/4 PL	12'-0"	┴	10"	
L-12	C4x5.4 + 11 x 1/4 PL	4'-0"	┴	12"	
L-13	C6x8.2 + 11 x 5/16	8'-0"	┴	12"	
L-14	C8x11.5 + 11 x 5/16	10'-0"	┴	12"	
L-15	W8x15 + 11 x 5/16 PL	12'-0"	┴	12"	
L-16	C4x5.4 + 13 x 5/16 PL	4'-0"	┴	14"	
L-17	C8x11.5 + 13 x 5/16	8'-0"	┴	14"	
L-18	W8x15 + 13 x 5/16	10'-0"	┴	14"	
L-19	W8x21 + 13 x 5/16 PL	12'-0"	┴	14"	
L-20	C4x5.4 + 15 x 5/16	4'-0"	┴	16"	
L-21	W8x15 + 15 x 5/16	8'-0"	┴	16"	
L-22	W8x21 + 15 x 5/16 PL	10'-0"	┴	16"	
L-23	W10x26 + 15 x 5/16 PL	12'-0"	┴	16"	

GENERAL NOTES - LINTEL SCHEDULE

- See Architectural, Mechanical, and Structural plans and details for openings requiring loose lintels.
- For openings shown, but not indicated, which require lintels, furnish according to schedule.
- Verify size and location of mechanical lintels with Mechanical Contractor prior to fabrication.
- Length of lintels to be 1'-0" longer than openings under 6'-0" and 1'-4" longer for openings 6'-0" or longer.
- Contractor, at his/her option, may use reinforced block lintels for 6" walls (1) #4 at bottom for spans 4'-0" or less; (2) #4 at bottom for spans 6'-0" or less; and 8" walls (2) #4 at bottom for spans 4'-0" or less; (2) #5 at bottom for spans 6'-0" or less.
- Contractor to verify existing conditions prior to installing lintels. Care is to be taken when installing lintels to the existing structure is not damaged. Shore, brace, support as required to maintain structural quality of bearing walls. Provide solid brick bearing under all lintels for 5 courses minimum.
- For openings shown, but not indicated, use 3-1/2" x 3-1/2" x 1/4" angle for each 4" thickness of wall for openings to 6'-0". Use 5" x 3-1/2" x 5/16" angle for each 4" thickness of wall for openings to 8'-0".

SCHEDULE - DOOR OPENINGS

OPENING NUMBER	FRAME TYPE	MATERIAL	FINISH	DOOR TYPE	MATERIAL	FINISH	DOOR PAIR	WIDTH	HEIGHT	DETAILS	FIRE RATING	HARDWARE	GLAZING	DOOR COMMENTS
009A	2	HM	P	F	STL	P	No	3'-0"	7'-0"		1HR	2	-	
011A	4	HM	P	NG	WD	STN	No	3'-0"	7'-0"		1HR	1	G4	DOOR AND FRAME GLAZING SIZES SHOULD MATCH DIMENSIONS OF CLASSROOMS ON MAIN FLOOR LEVEL. ALL DOOR AND FRAME GLAZING SHALL BE RATED FIRELITE GLASS
011B	-	STL	P	CC	STL	P	No	8'-6"	4'-6"	2/A2.1	NA	-	-	DOOR TO RECEIVE MANUFACTURERS FACTORY FINISH, COLOR SELECTED BY ARCHITECT. DOOR SHALL BE MANUAL OPERATION WITH SPRING ASSIST AND PULL STRAP. CONTRACTOR TO PROVIDE SILL ANGLE. SILL AND JAMB STEEL TO BE PAINTED TO MATCH WALL. DOOR SHALL BE RATED FOR STORM PROTECTION.
201A	2	HM	P	F	STL	P	Yes	6'-0"	7'-0"		1HR	3	-	
202A	2	HM	P	F	STL	P	Yes	6'-0"	7'-0"		1HR	3	-	

SCHEDULE - ROOM FINISH

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	N. WALL FINISH	S. WALL FINISH	E. WALL FINISH	W. WALL FINISH	CEILING MATERIAL	CEILING FINISH	CEILING HEIGHT	CABINETRY	COUNTER	TOILET PARTITION	ROOM FINISH NOTES
201	EQUIP. MEZ													Prime and paint all new construction on gym side of wall
202	EQUIP. MEZ													Prime and paint all new construction on gym side of wall
009	ELEC	LVT	RB	P	P	P	P	ES	P	10'-3"	-	-	-	
011	CR	LVT	RB	P	P	P	P	ACP1	-	8'-6"	-	-	-	
010	COR	LVT	RB	P	P	P	P	ACP1	-	8'-6"	-	-	-	

SCHEDULE - MATERIAL

CODE	MATERIAL	MANUFACTURER	PRODUCT NUMBER	DESCRIPTION	REMARKS
ACP1	ACOUSTIC CEILING PANEL EXPOSED STRUCTURE	USG	MARS HIGH NRC R88135	WHITE	2'-2-7/8" SLT EDGE; 85 /35 - NRC /CAC
HM	HOLLOW METAL DOOR FRAME	SEE SPECIFICATION			PRIME AND PAINT EXPOSED STRUCTURE FIELD PAINT COLOR PUNCH / DIMPLE ANCHOR FRAME 5 3/4" FILL AND SAND DIMPLES
LVT	LUXURY VINYL TILE	INTERFACE	STUDIO SET A007	COLOR: PEWTER A00702	
P	PRIME AND PAINT	SEE SPECIFICATION		MATCH EXISTING	FIELD COLOR IS INDICATED AS "NATURAL CHOICE" ON PREVIOUS PLANS. ACCENT COLOR ON WINDOW WALLS OF CLASSROOMS: BLUE SKY
RB	RESILIENT BASE	ROPPE	4" RUBBER BASE-COVED	COLOR: BLACK	
SC	SEALED CONCRETE	SEE SPECIFICATION			ARCHITECT SHALL SELECT FROM MANUFACTURERS FULL RANGE OF COLOR PIGMENTS
STL	STEEL	SEE SPECIFICATION			
STN	STAIN AND SEAL	SEE SPECIFICATION			STAIN AND SEALER TO MATCH EXISTING SIMILAR CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING DOORS PRIOR TO BID.
WD	WOOD DOOR PANEL	SEE SPECIFICATION			WOOD DOORS SHALL MATCH THE EXISTING CLASSROOM DOORS. CONTRACTORS SHALL FIELD VERIFY EXISTING DOOR SPECIES, CUT, AND FINISH PRIOR TO BID.

SCHEDULE - RESOURCE

PRODUCT/MANUFACTURER	CONTACT NAME	CONTACT INFORMATION	REMARKS
-	-	-	-

LEGEND - DOOR HARDWARE SETS

DOOR HARDWARE SET #1: 1 1/2 PAIR BUTT HINGES, CLASSROOM LEVER REVERSE LOCKSET, OVERHEAD CLOSER, 10" STAINLESS STEEL KICK PLATE. KEY TO EXISTING MASTER SYSTEM. ALL HARDWARE SHOULD MATCH EXISTING MFR , MODEL AND FINISH.

DOOR HARDWARE SET #2: 1 1/2 PAIR BUTT HINGES, PANIC EXIT DEVICE, OVERHEAD CLOSER. KEY TO EXISTING MASTER SYSTEM. ALL HARDWARE SHOULD MATCH EXISTING MFR , MODEL AND FINISH.

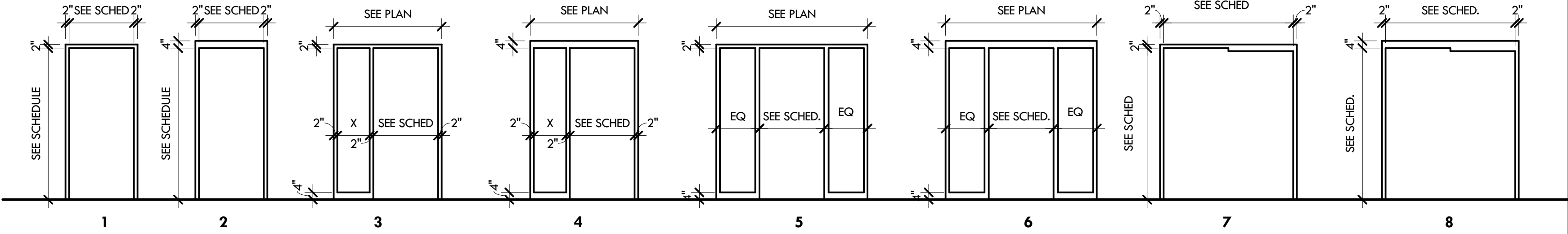
DOOR HARDWARE SET #3: 3 PAIR HEAVY DUTY BUTT HINGES, SELF LATCHING FLUSH BOLTS ON INACTIVE LEAF, COORDINATOR, PUSH SIDE CLOSERS, KEYED LEVER LOCKSET, PERIMETER DOOR SEAL GASKETS AND SWEEPS. PROVIDE REMOVABLE SAFETY CHAIN BETWEEN JAMB EYE BOLTS.

GENERAL NOTES

- REFER TO THE PROJECT MANUAL FOR ALL PAINT TYPES & SYSTEM SPECIFICATIONS.
- REFER TO THE MATERIAL AND RESOURCE LEGENDS FOR MATERIAL SPECIFICATIONS AND MANUFACTURERS REP INFORMATION. REFER TO THE PROJECT MANUAL FOR ADDITIONAL PRODUCT INFORMATION, INSTALLATION REQUIREMENTS, PRODUCT & PROJECT SPECIFIC INSTRUCTIONS.
- REFER TO INTERIORS "1" DRAWINGS FOR SPECIFIC FINISH MATERIAL APPLICATIONS AND INSTALLATION NOTES.
- REFER TO MILLWORK ELEVATIONS, SECTIONS AND DETAILS FOR LOCATIONS OF SPECIFIC MILLWORK FINISHES.
- ALL METAL DOOR /WINDOW FRAMES SHALL BE PAINTED TO MATCH THE ADJACENT WALL. SPLIT PAINT FRAMES AS REQUIRED. TRANSITION THE PAINT COLORS AT INSIDE CORNER OF STOP, UNLESS NOTED OTHERWISE.
- FINISHED HEIGHT OF NEW FLOORING SHALL MATCH THE FINISHED HEIGHT OF EXISTING FLOORING AND SHALL NOT REQUIRE A TRANSITION PIECE OR THRESHOLD. FLOORING INSTALLER SHALL USE FLOOR LEVELING COMPOUND AS REQUIRED TO ACHIEVE A SAME HEIGHT TRANSITION.
- PROVIDE INTEGRAL FLASH COVED BASE, IN THE MATERIAL INDICATED ON THE ROOM FINISH SCHEDULE, USING A COVE STICK TO FORM THE COVE & COVE CAP TO COMPLETE THE INSTALLATION. INSTALL INTEGRAL BASE TO A HEIGHT OF 4" AFF, UNLESS NOTED OTHERWISE.
- ALL FLOORING TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE CLOSED POSITION UNLESS NOTED OTHERWISE.
- REFER TO THE ARCHITECTURAL FLOOR PLANS FOR ALL CORNER GUARD LOCATIONS.
- GW/B WALLS SHALL RECEIVE A LEVEL 5 FINISH AT AREAS TO RECEIVE DARK COLOR PAINTS. ALL GW/B WALLS SHALL HAVE A CONTROL JOINT AT CENTER OF WALL WHERE WALL IS GREATER THAN 25' IN LENGTH.
- THE FACE SURFACE OF ALL CEILING SOFFITS AND BULKHEADS SHALL BE PAINTED UNLESS NOTED OTHERWISE. THE UNDERSIDE OF ALL CEILING SOFFITS AND BULKHEADS SHALL BE PAINTED P1 UNLESS NOTED OTHERWISE.
- WHenever EXISTING PAINT FINISHES TO REMAIN ARE DISTURBED OR DAMAGED DURING DEMOLITION OR NEW CONSTRUCTION, THE CONTRACTOR SHALL REPAIR DAMAGE AND RE-PAINT ENTIRE ELEMENT (WALL, CEILING, FLOOR, ETC.)
- WHERE REQUIRED TO "MATCH EXISTING" CONTRACTORS SHALL FIELD VERIFY THE EXISTING ELEMENTS PRIOR TO BID.
- MATERIALS SPECIED BY SPECIFIC MANUFACTURERS MAY BE SUBSTITUTED WITH EQUAL OR BETTER PRODUCTS IF APPROVED BY OWER.

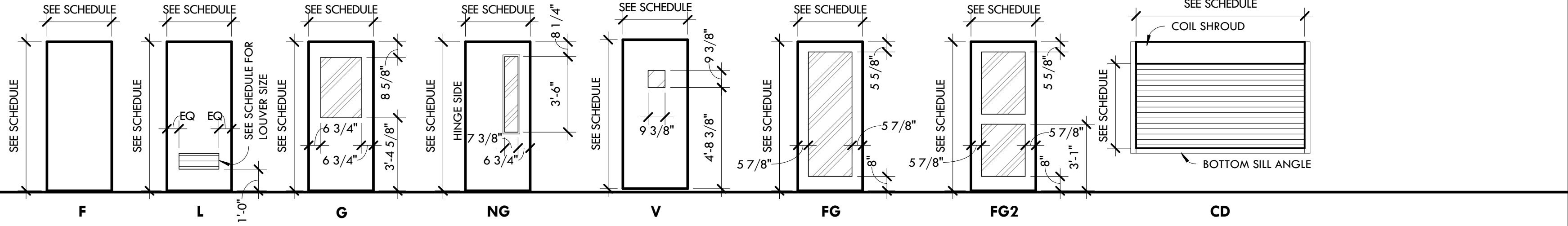
LEGEND - FRAME TYPES

ALL METAL FRAMES IN MASONRY WALLS TO HAVE 4" HEAD TO MATCH COURSING



LEGEND - DOOR TYPES

SEE SCHEDULE FOR DOOR PAIR DESIGNATION



GENERAL NOTES - OPENINGS

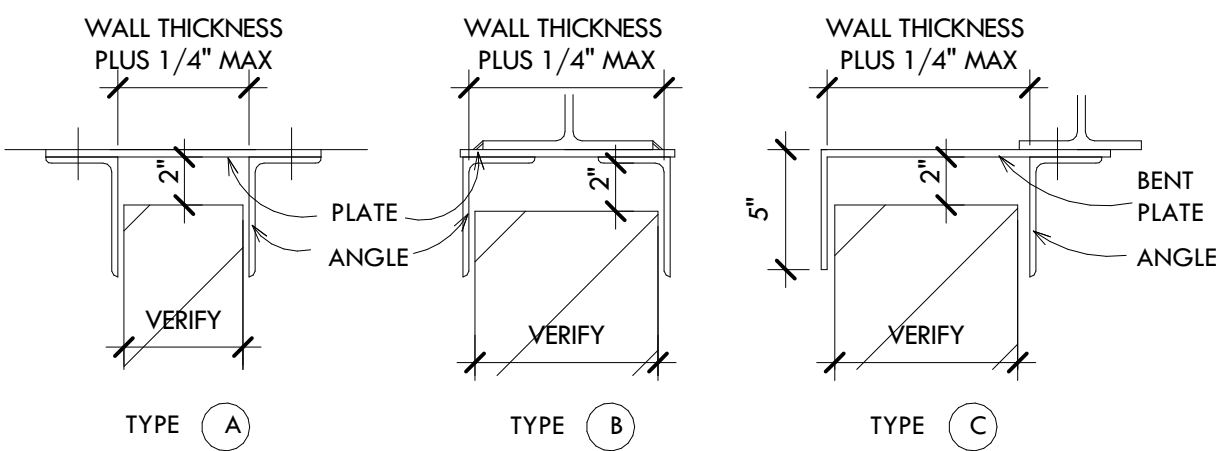
- ALL EXTERIOR DOORS, RECEIVE WEATHER SEALS
- DOOR FRAMES IN CMU WALLS SHALL HAVE A 4" DOOR HEAD TO MATCH COURSING.
- ALL EXTERIOR MAN DOOR FRAMES SHALL BE INSULATED.
- SEE SPECIFICATION 08 7100 FOR DOOR HARDWARE SETS

LEGEND - GLAZING

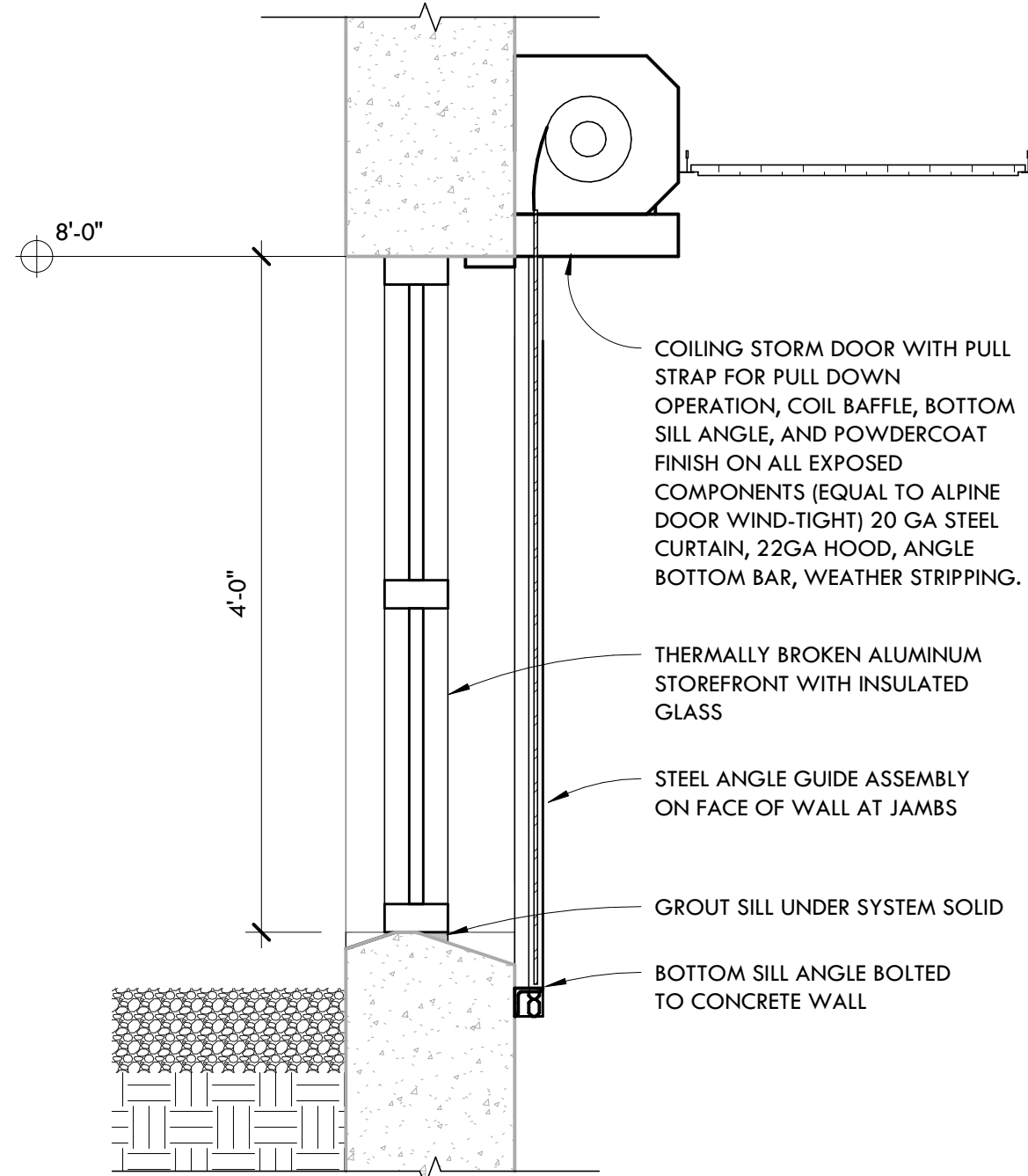
- INSULATED TEMPERED GLASS (LOW E)
- SPANDREL GLASS
- UNINSULATED TEMPERED GLASS
- TEMPERED DOOR GLAZING
- INSULATED DOOR GLAZING

HORIZONTAL BRACING FOR NON-LOAD BEARING INTERIOR MASONRY WALLS

- SPAN LIMITS BETWEEN CORNERS AND/OR NON-LOAD BEARING INTERIOR MASONRY WALLS:
WALL THICKNESS (NOMINAL)
6" 14'-0"
8" 18'-0"
10" 23'-0"
12" 28'-0"
- WALLS EXCEEDING SPAN LIMITS ABOVE REQUIRE STEEL BRACKETS 4'-0" O.C. ANCHORED TO STRUCTURE ABOVE (WELDED OR SCREWED AS REQUIRED AND APPROVED)
- REFER TO DETAILS FOR VARIOUS CONDITIONS & BRACKET TYPES



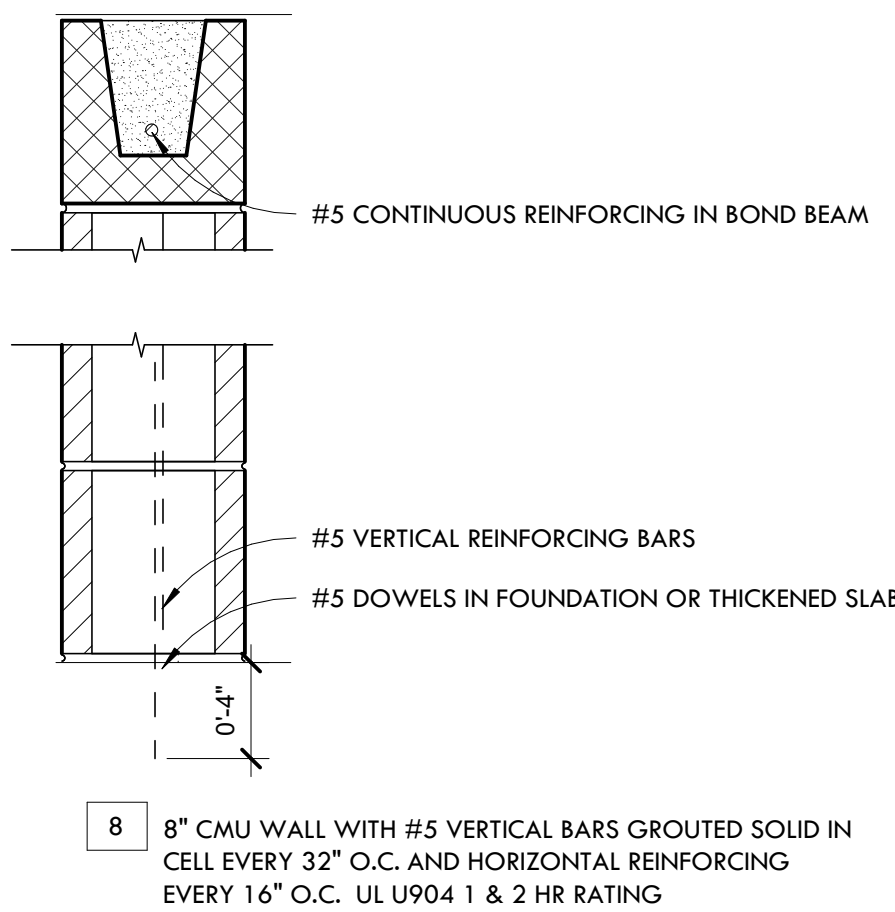
- NOTE
- TYPICAL PLATE: 10 GAUGE 10" LONG. WIDTH VARIES W/ WALL TYPE
 - TYPICAL ANGLE: 3"x5"x1/4"x6" LONG (5" LEG VERTICAL)
 - TYPICAL SPACING: 4'-0" ON CENTER
 - FASTEN BRACKET TO DECK OR STRUCTURE ABOVE. DO NOT FASTEN TO CMU



2 COILING STORM SHUTTER DETAIL

SCALE: 1" = 1'-0"

LEGEND - TYPICAL MASONRY



GENERAL NOTES - WALL TYPES

- FOR ALL EXPOSED CMU WALLS, PROVIDE BULLNOSE CORNERS AT ALL OUTSIDE CORNERS AND JAMBS FOR ALL DOORS & OPENINGS

ENGINEERING SERVICES - ROCKFORD IL

ROCKFORD PUBLIC SCHOOL DISTRICT 205

RIVERDAHL ELEMENTARY SCHOOL (RPS#2243, IFB22-22)

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PROJECT NUMBER			
31029-02			
SHEET NUMBER		CHECKED BY:	APPROVED BY:
A2.1		Checker	Approver
		DRAWN BY:	Author

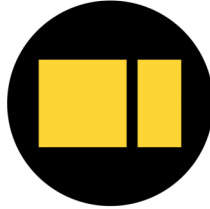
DATE: 01/21/22

PROJECT NUMBER

31029-02

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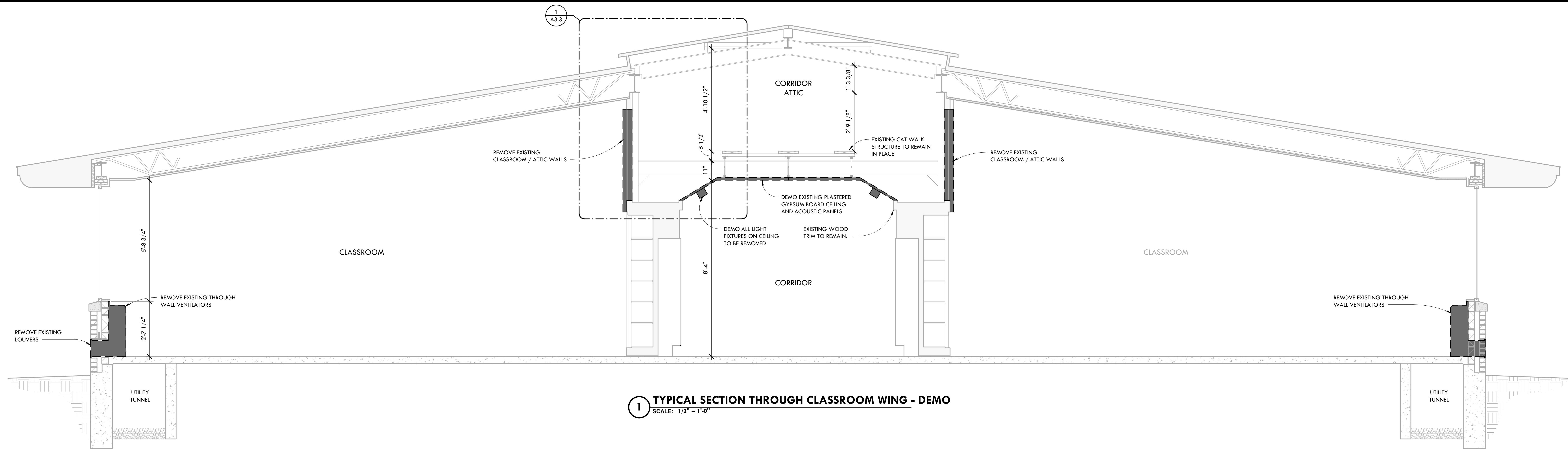
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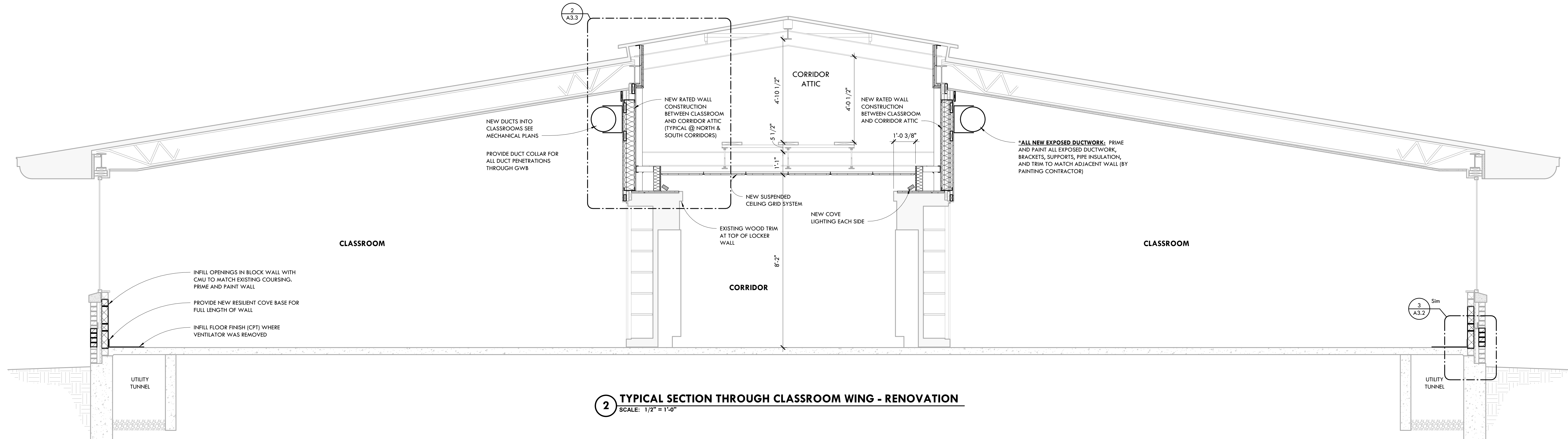
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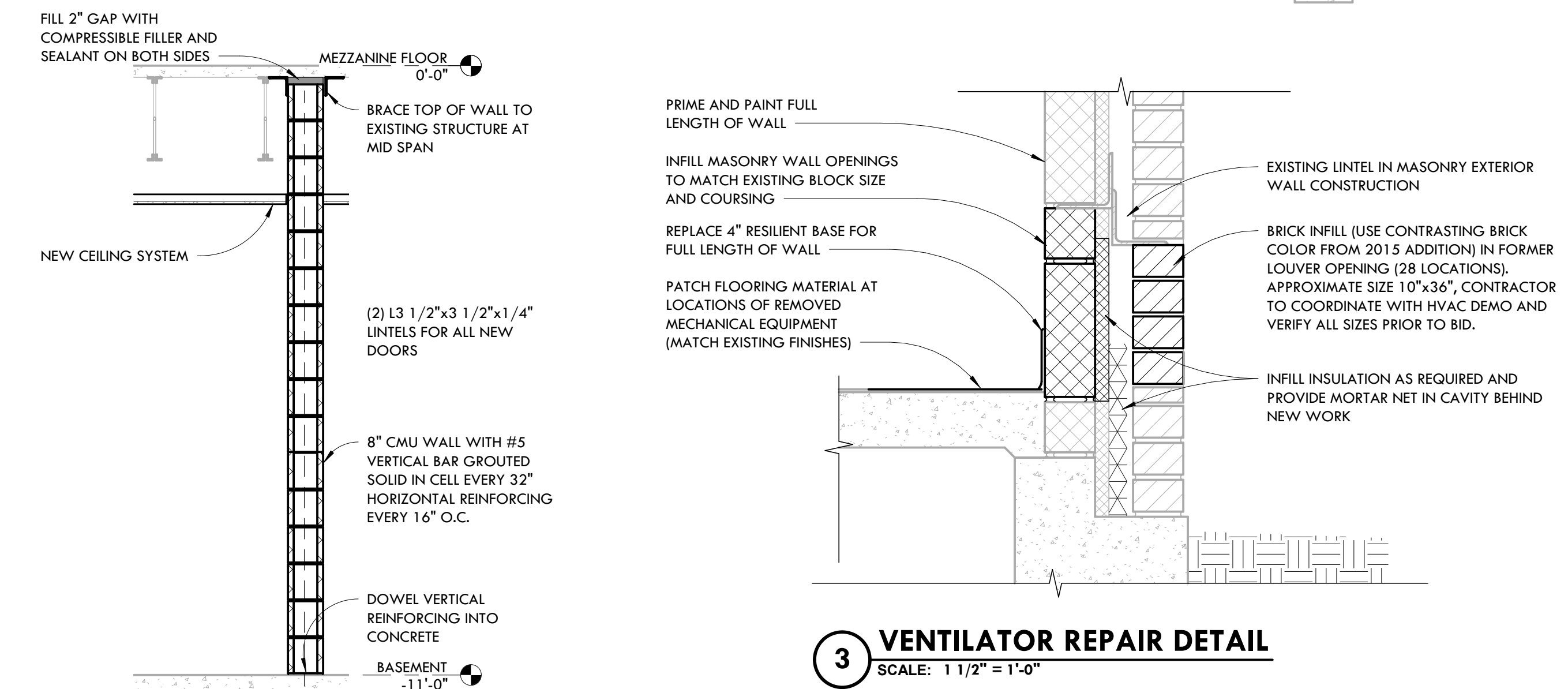
SCALE: AS NOTED



1 TYPICAL SECTION THROUGH CLASSROOM WING - DEMO
SCALE: 1/2" = 1'-0"



2 TYPICAL SECTION THROUGH CLASSROOM WING - RENOVATION
SCALE: 1/2" = 1'-0"



3 VENTILATOR REPAIR DETAIL
SCALE: 1 1/2" = 1'-0"

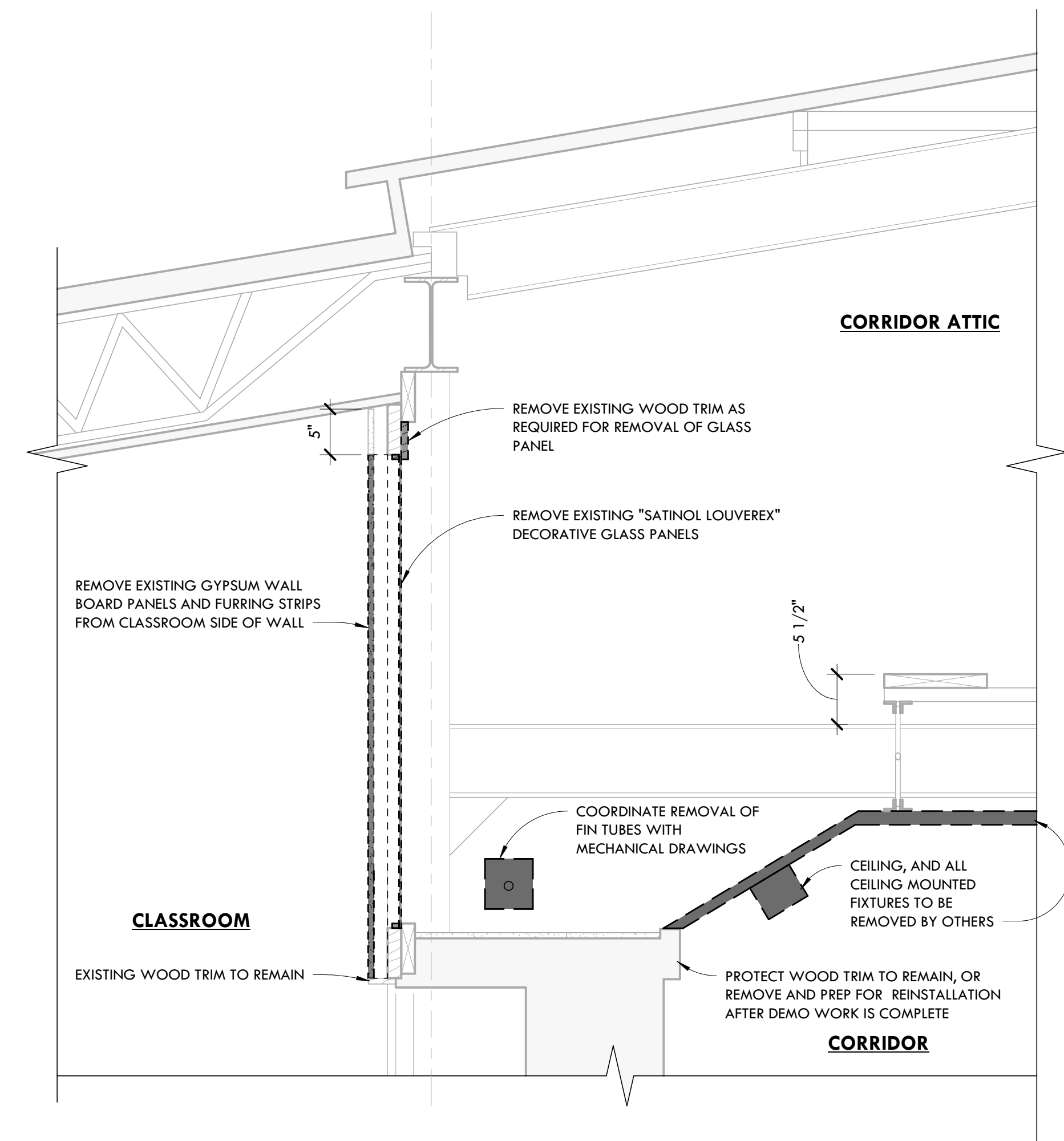
4 BASEMENT MASONRY WALL SECTION
SCALE: 1/2" = 1'-0"

BUILDING SECTIONS

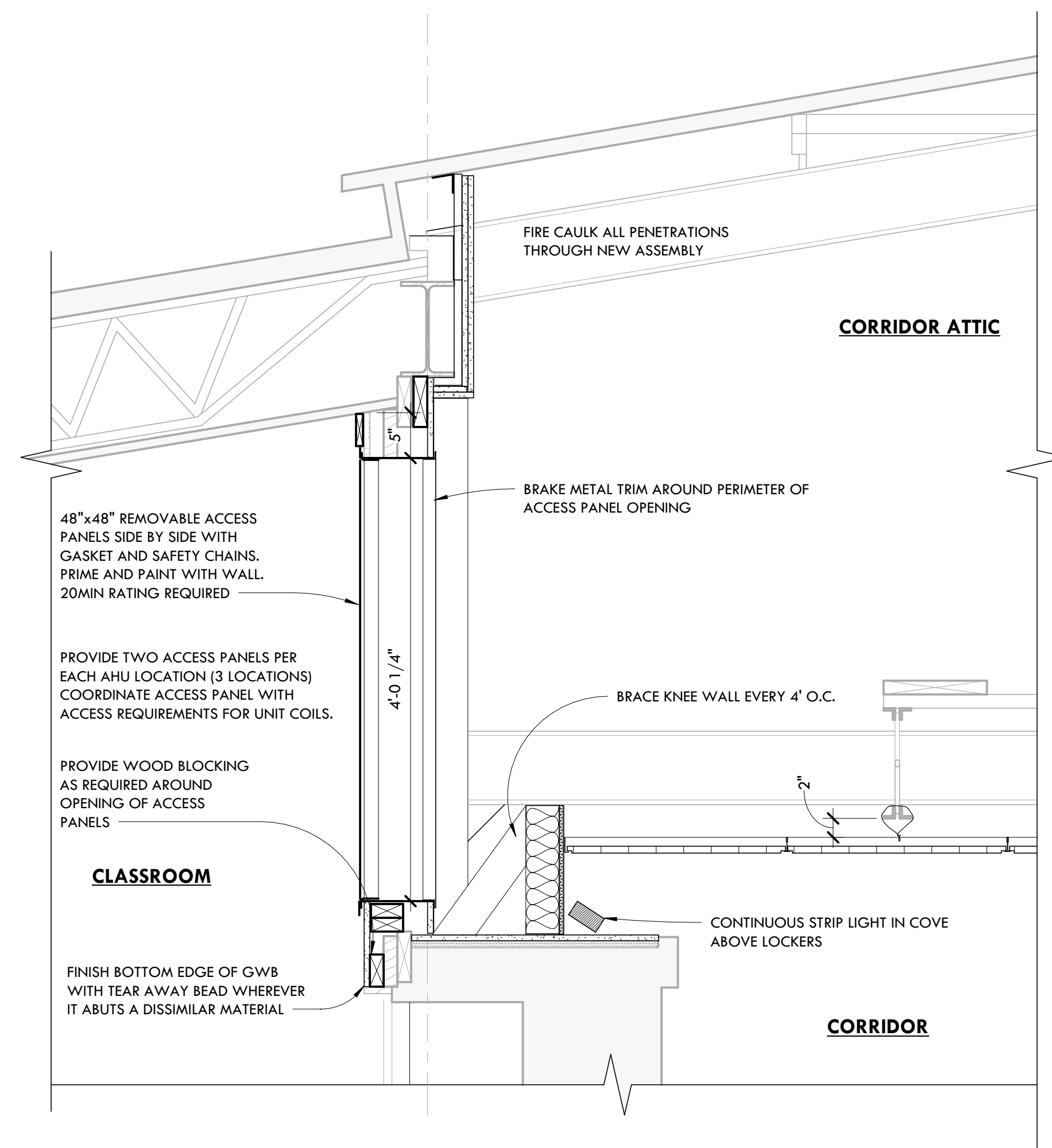
SCALE: AS NOTED



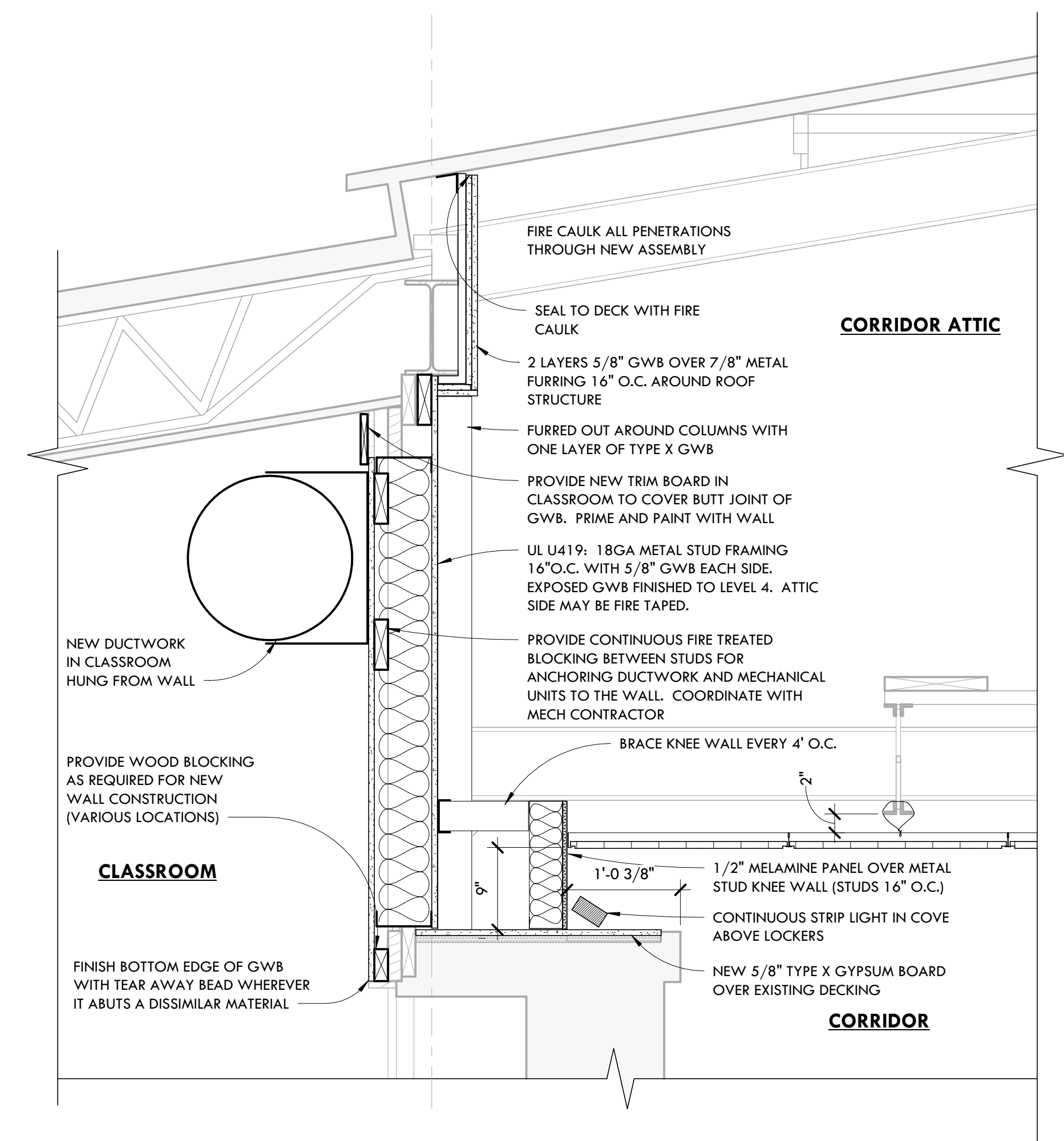
4 ELEVATION - CAFETERIA LOUVERS
SCALE: 1/4" = 1'-0"



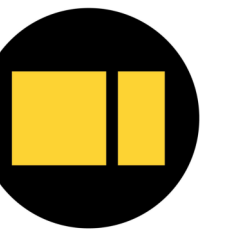
1 CORRIDOR ATTIC WALL DEMO
SCALE: 1" = 1'-0"

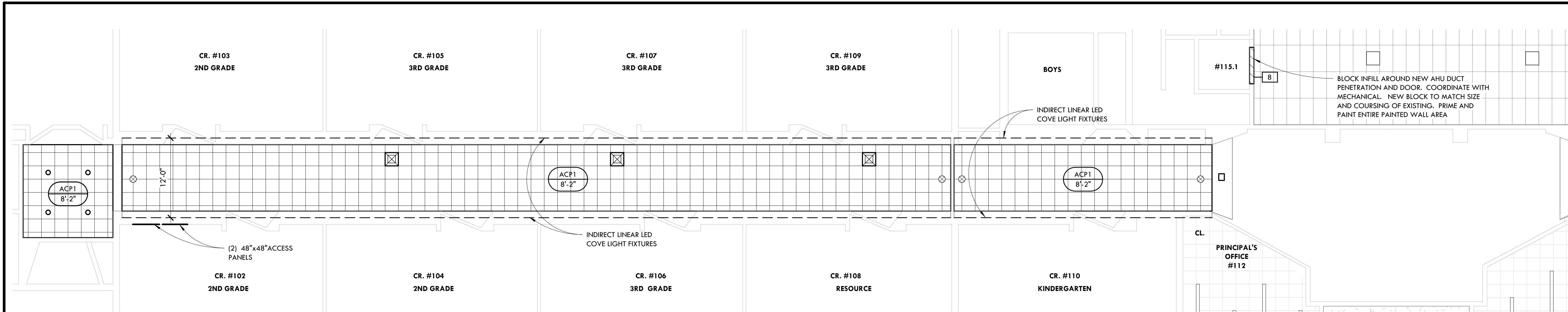


3 CORRIDOR ATTIC ACCESS PANELS
SCALE: 1" = 1'-0"

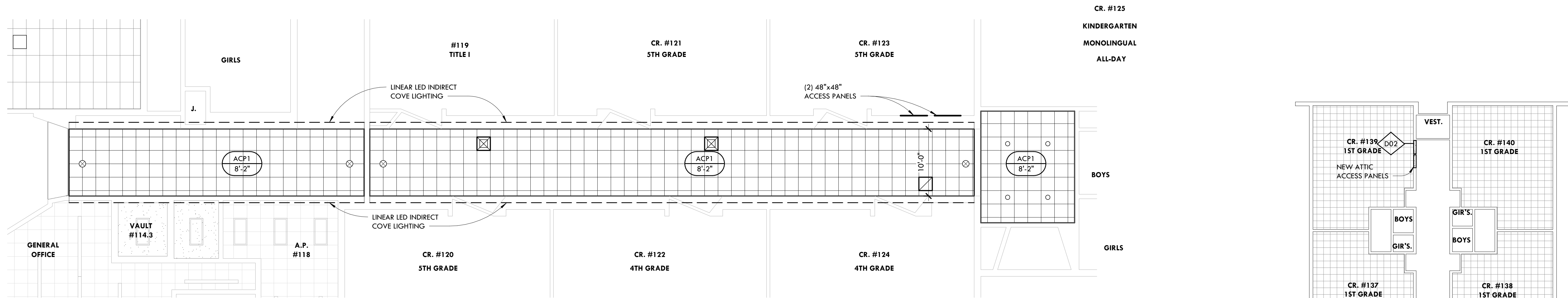


2 CORRIDOR ATTIC NEW CONSTRUCTION
SCALE: 1" = 1'-0"

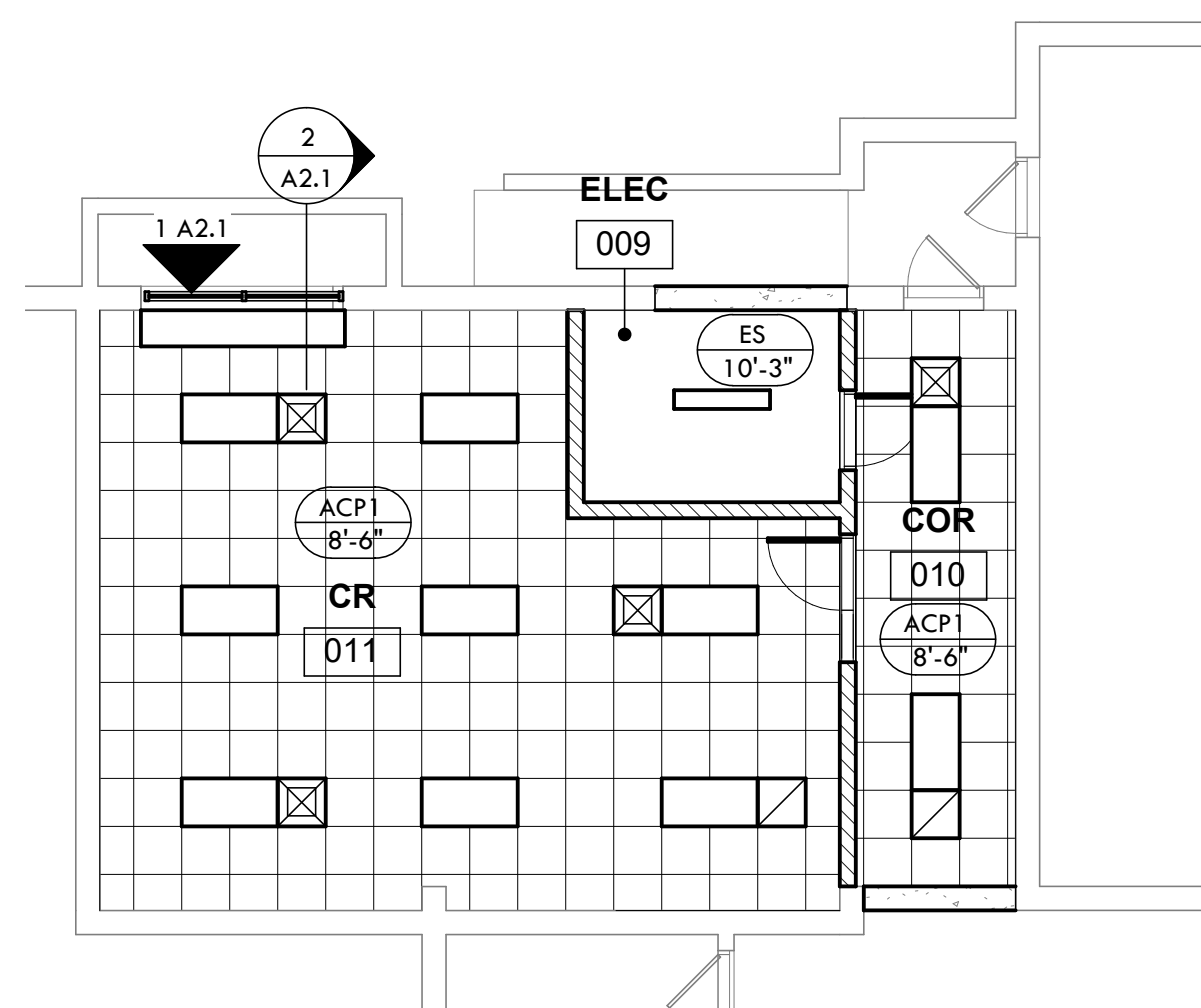




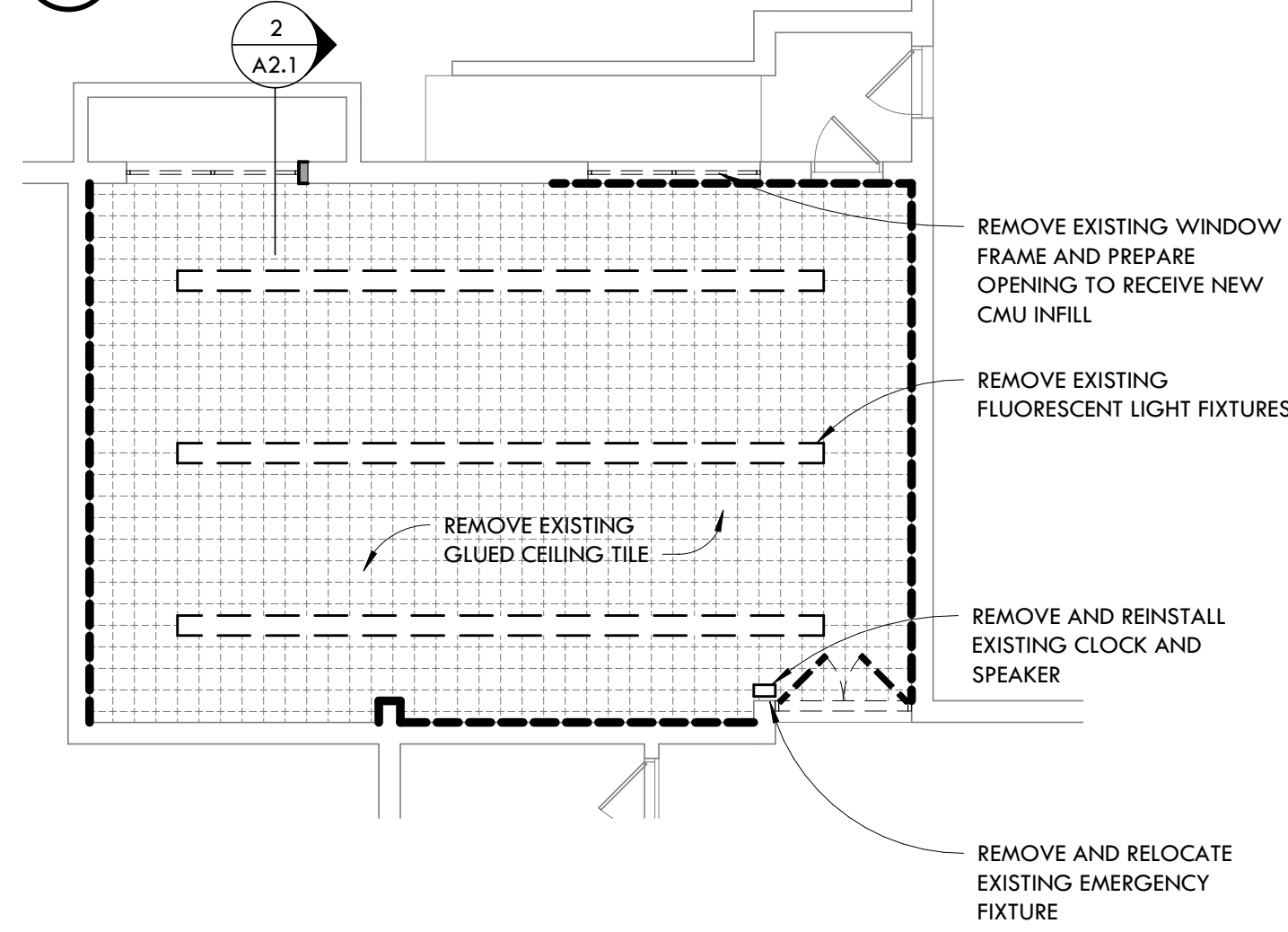
2 REFLECTED CEILING PLAN NORTH CORRIDOR
SCALE: 1/8" = 1'-0"



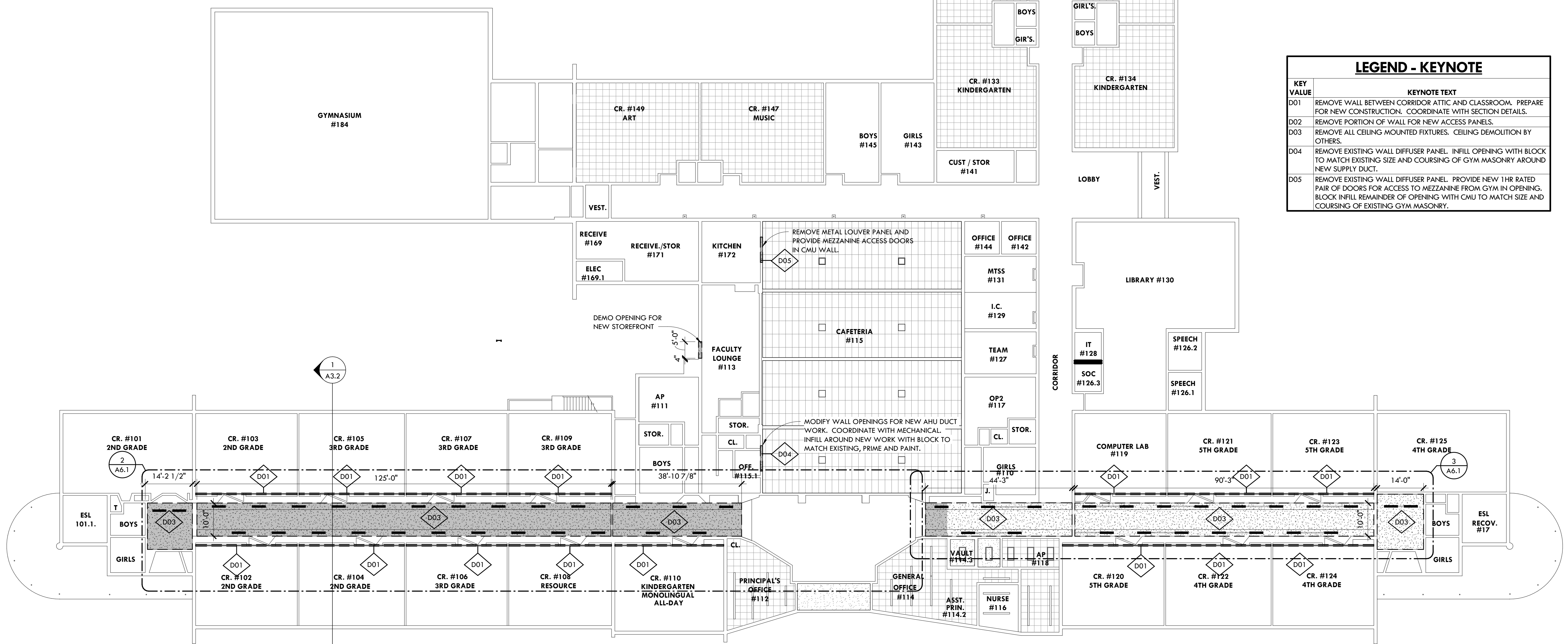
3 REFLECTED CEILING PLAN SOUTH CORRIDOR
SCALE: 1/8" = 1'-0"



4 ART & CORRIDOR RCP
SCALE: 1/8" = 1'-0"



5 ART ROOM DEMOLITION CEILING PLAN
SCALE: 1/8" = 1'-0"



1 OVERALL REFLECTED CEILING DEMO PLAN
SCALE: 1/16" = 1'-0"

FIRST FLOOR REFLECTED CEILING PLAN

SCALE: AS NOTED
NORTH

- LEGEND - REFLECTED CEILING**
- 2' X 2' LAY-IN ACOUSTICAL CEILING PANEL SYSTEM
 - EXISTING 2' X 2' LAY-IN ACOUSTICAL CEILING PANEL SYSTEM
 - GYPSUM WALLBOARD CEILING
 - 2'x4' RECESSED TROFFER LIGHT FIXTURE
 - RECESSED LIGHT FIXTURE
 - RECESSED WALL WASHER
 - SUPPLY AIR DIFFUSER
 - RETURN AIR REGISTER / TRANSFER GRILLE
 - EXHAUST AIR REGISTER
 - CLING MTRL / CEILING HEIGHT (WHERE MTRL IS "ES" HEIGHT INDICATES BOTTOM CEILING FINISH ON WALLS)
 - ACP 8'-0"

GENERAL NOTES - REFLECTED CEILING

- COORDINATE LIGHTING LAYOUT WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- COORDINATE DIFFUSERS, GRILLES, AND DUCTWORK WITH MECHANICAL DRAWINGS AND SPECIFICATIONS.
- SEE FIRE PROTECTION DRAWINGS FOR LOCATIONS OF SPRINKLER HEADS. HEADS SHOULD ALWAYS BE LOCATED IN CENTER OF CEILING TILE.
- ALL EXPOSED ROOF STRUCTURE, MISCELLANEOUS STEEL, PIPING, CONDUIT, DUCT WORK, HANGARS, RODS, BRACES, UNISTRUT, AND TIES ARE TO BE FINISHED WITH THE CEILING FINISH DESIGNATION ON THE R.F.S. UNLESS NOTED OTHERWISE.

LEGEND - KEYNOTE	
KEY VALUE	KEYNOTE TEXT
D01	REMOVE WALL BETWEEN CORRIDOR ATTIC AND CLASSROOM. PREPARE FOR NEW CONSTRUCTION. COORDINATE WITH SECTION DETAILS.
D02	REMOVE PORTION OF WALL FOR NEW ACCESS PANELS.
D03	REMOVE ALL CEILING MOUNTED FIXTURES. CEILING DEMOLITION BY OTHERS.
D04	REMOVE EXISTING WALL DIFFUSER PANEL. INFILL OPENING WITH BLOCK TO MATCH EXISTING SIZE AND COURSING OF GYM MASONRY AROUND NEW SUPPLY DUCT.
D05	REMOVE EXISTING WALL DIFFUSER PANEL. PROVIDE NEW 1HR RATED PAIR OF DOORS FOR ACCESS TO MEZZANINE FROM GYM IN OPENING. BLOCK INFILL REMAINDER OF OPENING WITH CMU TO MATCH SIZE AND COURSING OF EXISTING GYM MASONRY.

UL SYSTEM NO. WL1054
METAL PIPE THROUGH 1-HR OR 2-HR GYPSUM WALL ASSEMBLY
F RATING = 1-HR OR 2-HR
T RATING = 0-HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE RATING) (2-HR SHOWN) (NOT SHOWN), WOOD STUDS TO CONSIST OF NOMINAL 2x4 IN. LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 30" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
B. MAXIMUM 30" NOMINAL DIAMETER CAST IRON PIPE.
C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
D. MAXIMUM 6" NOMINAL DIAMETER EMT.
E. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT:
A. MINIMUM 5/8" DEPTH, FOR A 1-HR. FIRE RATING.
B. MINIMUM 1-1/4" DEPTH, FOR A 2-HR. FIRE RATING.
5. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING:
A. 22-1/4" FOR STEEL STUD WALLS.
B. 14-1/2" FOR WOOD STUD WALLS.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/2".

UL SYSTEM NO. WL5029
INSULATED METAL PIPE THROUGH 1-HR OR 2-HR GYPSUM WALL ASSEMBLY
F RATING = 1-HR OR 2-HR
T RATING = 1/2-HR, 3/4-HR, 1-HR, OR 1-3/4 HR. (SEE UL FIRE RESISTANCE DIRECTORY)
L RATING AT AMBIENT = 4 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.

1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE RATING) (2-HR SHOWN).
2. (NOT SHOWN), WOOD STUDS TO CONSIST OF NOMINAL 2x4 IN. LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 20 OR HEAVIER).
B. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
D. MAXIMUM 4" NOMINAL DIAMETER EMT.
MAXIMUM 2" THICK GLASS FIBER PIPE INSULATION.
4. MINIMUM 5/8" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 18".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM = 1-7/8".

UL SYSTEM NO. FA-1014
METAL PIPE THROUGH CONCRETE FLOOR OVER METAL DECKING
F RATING = 2-HR
T RATING = 0-HR.

1. NORMAL WEIGHT CONCRETE FLOOR (MIN. 2-1/2" THICK) OVER METAL DECKING (2-HR. FIRE RATING).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
B. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. MINIMUM 1" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 14-5/8".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-7/8".

UL SYSTEM NO. WL2078
PLASTIC PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
F RATING = 1-HR OR 2-HR
T RATING = 1-HR OR 2-HR.

1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE RATING) (2-HR SHOWN).
2. (NOT SHOWN), WOOD STUDS TO CONSIST OF NOMINAL 2x4 IN. LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 6" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE).
B. MAXIMUM 6" NOMINAL DIAMETER ABS PLASTIC PIPE (CELLULAR OR SOLID CORE).
C. MAXIMUM 6" NOMINAL DIAMETER FRPP PLASTIC PIPE.
D. MAXIMUM 6" NOMINAL DIAMETER CPVC PLASTIC PIPE.
4. SEE NOTE NO. 1 BELOW.
5. HILTI CP 642 OR HILTI CP 643 FIRESTOP COLLAR (SEE TABLE BELOW).
6. FASTEN EACH MOUNTING TAB TO WALL ASSEMBLY WITH APPROPRIATE HILTI ANCHORS.

NOM. PIPE DIA.	PRODUCT DESCRIPTION	NO. OF MOUNTING TABS	MAX. HOLE SIZE
1-1/2"	CP 643 50/1.5"	2	2-1/8"
2"	CP643 63/2"	2	2-5/8"
3"	CP643 90/3"	3	4"
4"	CP643 110/4"	3	5"
6"	CP 642 160/6"	6	7"

NOTES:
1. TO IMPEDE COLD SMOKE, PROVIDE 1/4" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IN ANNULAR SPACE AROUND PLASTIC PIPE.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/2".
3. CLOSED OR VENTED PIPING SYSTEMS. (PVC, ABS, FRPP - SCH. 40, CPVC = SDR 17).

UL SYSTEM NO. WL7040
METAL DUCT (WITHOUT DAMPER) THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
F RATING = 1-HR OR 2-HR
T RATING = 0-HR.

1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN), WOOD STUDS TO CONSIST OF NOMINAL 2x4 IN. LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. RECTANGULAR SHEET METAL DUCT (MAXIMUM SIZE: 24" x 48", MINIMUM 24 GA. THICKNESS). (NOTE: NOT FOR USE IN DUCT SYSTEMS CONTAINING A FIRE DAMPER).
4. OPENING TO BE "FRAMED OUT" WITH LIGHT GAGE METAL FRAMING STUDS.
5. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT, HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT, OR HILTI CP 606 FLEXIBLE FIRESTOP SEALANT.
A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
6. SEE NOTE NO. 3 BELOW.

NOTES:
1. MAXIMUM AREA OF OPENING = 1244 SQUARE INCHES WITH A MAXIMUM DIMENSION OF 49-1/4 IN.
2. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 1".
3. AFTER SEALING SPACE BETWEEN DUCT AND GYPSUM WALL ASSEMBLY WITH HILTI FIRESTOP SEALANT, FASTEN STEEL ANGLE (MINIMUM 1-1/2" x 1-1/2" x 16 GA.) TO DUCT WITH MINIMUM NO. 8 x 3/4" LONG SHEET METAL SCREWS. ANGLE DOES NOT HAVE TO BE FASTENED TO THE WALL ASSEMBLY.

UL SYSTEM NO. CAJ-1184
METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL
F RATING = 3-HR
T RATING = 0-HR.

1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN. 4-1/2" THICK).
B. PRECAST (HOLLOW CORE) CONCRETE FLOOR (MIN. 7-1/2" THICK).
C. ANY UL CLASSIFIED BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
B. MAXIMUM 10" NOMINAL DIAMETER CAST IRON PIPE.
C. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
D. MAXIMUM 4" NOMINAL DIAMETER EMT OR STEEL CONDUIT.
3. MINIMUM 1" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, APPLIED WITH TOP OR BOTTOM OF FLOOR. (SEE NOTE NO. 3 BELOW).
4. MINIMUM 1/2" CROWN HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 14-5/8".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-7/8".

UL SYSTEM NO. WL2098
CLOSED PVC/CPVC PLASTIC PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
F RATING = 1-HR OR 2-HR
T RATING = 1-HR OR 2-HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE RATING) (2-HR SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (CLOSED PIPING SYSTEM).
B. MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE (CLOSED PIPING SYSTEM).
3. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT POSSIBLE.
A. MINIMUM 5/8" DEPTH, FOR A 1-HR FIRE-RATING.
B. MINIMUM 1-1/4" DEPTH, FOR A 2-HR FIRE-RATING.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 4-3/8".
2. ANNULAR SPACE = MINIMUM 3/4", MAXIMUM 1-1/4".

UL SYSTEM NO. WL8004
MULTIPLE PENETRATIONS THROUGH 2-HR. GYPSUM WALL ASSEMBLY
F RATING = 2-HR
T RATING = 1/4-HR.

1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400) (2-HR. FIRE-RATING).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 3" NOMINAL DIAMETER EMT.
B. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (CLOSED PIPING SYSTEM ONLY).
C. MAXIMUM 25 PAIR NO. 24 AWG TELEPHONE CABLE.
D. MAXIMUM 3/C NO. 10 (+GRND) AWG CABLE (ROMEX).
E. MAXIMUM 300 KCMIL POWER CABLE.
3. NO. 8 STEEL WIRE MESH, 4-1/4" LONG (OR STANDARD METAL DRYWALL TRACK SCREWED SECURELY IN PLACE) CENTERED IN OPENING.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT INSTALLED FLUSH WITH BOTH SURFACES OF WALL.

NOTES:
1. MAXIMUM AREA OF OPENING = 96 SQUARE INCHES, WITH A MAXIMUM DIMENSION OF 12 INCHES.
2. DISTANCE BETWEEN ITEMS = MINIMUM 1-3/4", MAXIMUM 7".
3. DISTANCE FROM EDGE OF OPENING = MINIMUM 1/2", MAXIMUM 7", (EXCEPTION: 300 KCMIL POWER CABLE MUST BE MINIMUM 1-1/2" FROM THE EDGE OF OPENING).

UL SYSTEM NO. CAJ-2095
PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL
F RATING = 3-HR
T RATING = 2-1/2-HR.

1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING).
A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN. 4-1/2" THICK).
B. ANY UL CLASSIFIED CONCRETE BLOCK WALL.
2. MAXIMUM 4" NOMINAL DIAMETER PVC OR CPVC PLASTIC PIPE (CLOSED OR VENTED PIPING SYSTEM).
3. MINIMUM 1-1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, APPLIED WITHIN THE ANNULUS.
4. HILTI RETAINING COLLAR COMPLETELY FILLED WITH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT. MAINTAIN 3/4" SPACE BETWEEN HILTI RETAINING COLLAR AND PIPE.
5. HILTI COLLAR CLAMP(S) FASTENED TO MID-HEIGHT OF COLLAR.
6. ATTACH EVERY OTHER TAB WITH APPROPRIATE FASTENERS (SEE NOTE NO. 4).

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 5".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/2".
3. WALL REQUIRE COLLARS AND SEALANT ON BOTH SIDES.
4. FASTENERS: FOR CONCRETE FLOORS AND WALLS USE EITHER 1/4" HILTI KWIK-BOLT II OR POWDER ACTUATED FASTENERS (X-25 22" PINS WITH STEEL WASHERS). FOR CONCRETE BLOCK WALLS, USE HILTI SLEEVE ANCHORS.

UL SYSTEM NO. WL3065
CABLE BUNDLE THROUGH 1-HR OR 2-HR GYPSUM WALL ASSEMBLY
F RATING = 1-HR OR 2-HR
T RATING = 0-HR
L RATING AT AMBIENT = LESS THAN 5 CFM/SQ. FT.
L RATING AT 400°F = 2 CFM/SQ. FT.

1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE RATING) (2-HR SHOWN).
2. (NOT SHOWN), WOOD STUDS TO CONSIST OF NOMINAL 2x4 IN. LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. CABLES TO FILL MAXIMUM 45% OF CROSS-SECTIONAL AREA OF OPENING.
4. CABLE BUNDLE TO CONSIST OF ANY OF THE FOLLOWING:
A. MAXIMUM 7/C NO. 12 AWG CABLE.
B. MAXIMUM 25 PAIR NO. 24 TELEPHONE CABLE.
C. RG 59 COAXIAL CABLE.
D. 3/C NO. 14 AWG METAL-CLAD CABLE.
E. 2/C NO. 8 AWG METAL-CLAD CABLE.
F. MAXIMUM 5/8" DIAMETER FIBER-OPTIC CABLE.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
6. SEE NOTE NO. 4 BELOW.

NOTES:
1. MAXIMUM SIZE OF OPENING = 4-1/2".
2. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 3/4".
3. CABLES TO FILL MAXIMUM 45% OF CROSS-SECTIONAL AREA OF OPENING.
4. STEEL SLEEVE MAY BE FLUSH WITH WALL SURFACE OR EXTEND UP TO 1'-6" BEYOND WALL SURFACE. WHEN SLEEVE IS EXTENDED BEYOND ONE OR BOTH SIDES OF WALL, APPLY MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT TO WALL/SLEEVE INTERFACE.

UL SYSTEM NO. WJ8004
MULTIPLE PENETRATIONS THROUGH 2-HR. CONCRETE WALL OR CONCRETE BLOCK WALL
F RATING = 2-HR
T RATING = 1/4-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

1. CONCRETE WALL ASSEMBLY (2-HR FIRE-RATING):
A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 5" THICK).
B. ANY UL CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 3" NOMINAL DIAMETER EMT.
B. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (CLOSED PIPING SYSTEM ONLY).
C. MAXIMUM 25 PAIR NO. 24 AWG TELEPHONE CABLE.
D. MAXIMUM 3/C NO. 10 (+GRND) AWG CABLE (ROMEX).
E. MAXIMUM 300 KCMIL POWER CABLE.
3. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT INSTALLED FLUSH WITH BOTH SURFACES OF WALL.

NOTES:
1. MAXIMUM AREA OF OPENING = 96 SQUARE INCHES, WITH A MAXIMUM DIMENSION OF 12 INCHES.
2. DISTANCE BETWEEN ITEMS = MINIMUM 1-3/4", MAXIMUM 7".
3. DISTANCE FROM EDGE OF OPENING = MINIMUM 1/2", MAXIMUM 7", (EXCEPTION: 300 KCMIL POWER CABLE MUST BE MINIMUM 1-1/2" FROM THE EDGE OF OPENING).

GENERAL FIRE-STOP SYSTEM NOTES:

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL FIRE-STOP DETAILS AND RESPONSIBILITIES AND CONFIRMING THAT EACH TRADE HAS INCLUDED APPROPRIATE COSTS FOR SUCH FIRE-STOP WORK IN THEIR BID OR THAT THE G.C. WILL ASSUME THE RESPONSIBILITY FOR THIS WORK HIMSELF.
2. THESE DETAILS & NOTES ARE INTENDED TO BE A GENERAL GUIDE AS TO TYPICAL EXPECTED CONDITIONS. ACTUAL CONDITIONS AND DETAILS SHALL BE REVIEWED BY EACH TRADE WITH THE GENERAL CONTRACTOR. ALTERNATIVE UL APPROVED FIRE-STOP SYSTEMS OR DETAILS MAY BE USED WHICH SATISFY THE FIRE RATING REQUIREMENTS.
3. FOR LARGER OPENINGS, ADDITIONAL ITEMS PENETRATING OPENINGS, ETC. SECURE "ENGINEERING JUDGEMENT" SHEETS FROM FIRE-STOP SYSTEM MANUFACTURER'S TECHNICAL SUPPORT DEPARTMENTS (SUCH AS HILTI OR TREMCO).
4. IN LIEU OF SECURING SPECIAL "ENGINEERING JUDGEMENTS", FOR LARGER OPENINGS WITH MULTIPLE PENETRATING ITEMS OF VARIOUS SIZES AND MATERIALS PENETRATING AN OPENING, THE CONTRACTOR MAY POUR A MINIMUM 6" THICK CONCRETE AROUND ALL SUCH ITEMS TO FILL THE BULK OF THE OPENING AND THEN FIRE-STOP/SEAL EACH ITEM AS AN INDIVIDUAL PENETRATION AS PER TYPICAL UL APPROVED DETAILS. ASSUME A MINIMUM #5 RE-BAR DOWELS OR 1/2" Ø STUDS 12" O.C. TO TIE THIS CONCRETE IN-FILL INTO ADJACENT CONSTRUCTION. (WELD RE-BAR DOWELS TO LARGE OPENING LITELS OR STEEL FRAMES AS REQUIRED. COORDINATE EXACT DETAILS OF THIS INFILL CONCRETE WITH THE STRUCTURAL ENGINEER/ARCHITECT PRIOR TO PROCEEDING.)
5. SUBMIT A DETAILED SCHEDULE OF PENETRATION LOCATIONS, INTENDED FIRE-STOP DETAILS, MATERIALS/ CUT-SHEETS, ETC. FOR ALL PENETRATIONS FOR ARCHITECT REVIEW AND CITY APPROVAL PRIOR TO PROCEEDING TO ORDER MATERIAL AND INSTALL THE WORK.
6. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

PENETRATION DETAILS

SCALE: AS NOTED

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ENGINEERING SERVICES - ROCKFORD IL
ROCKFORD PUBLIC SCHOOL DISTRICT 205
RIVERDAHL ELEMENTARY SCHOOL (RPS#2243, IFB22-22)

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SHEET NUMBER			
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GENERAL NOTES

DRAWINGS

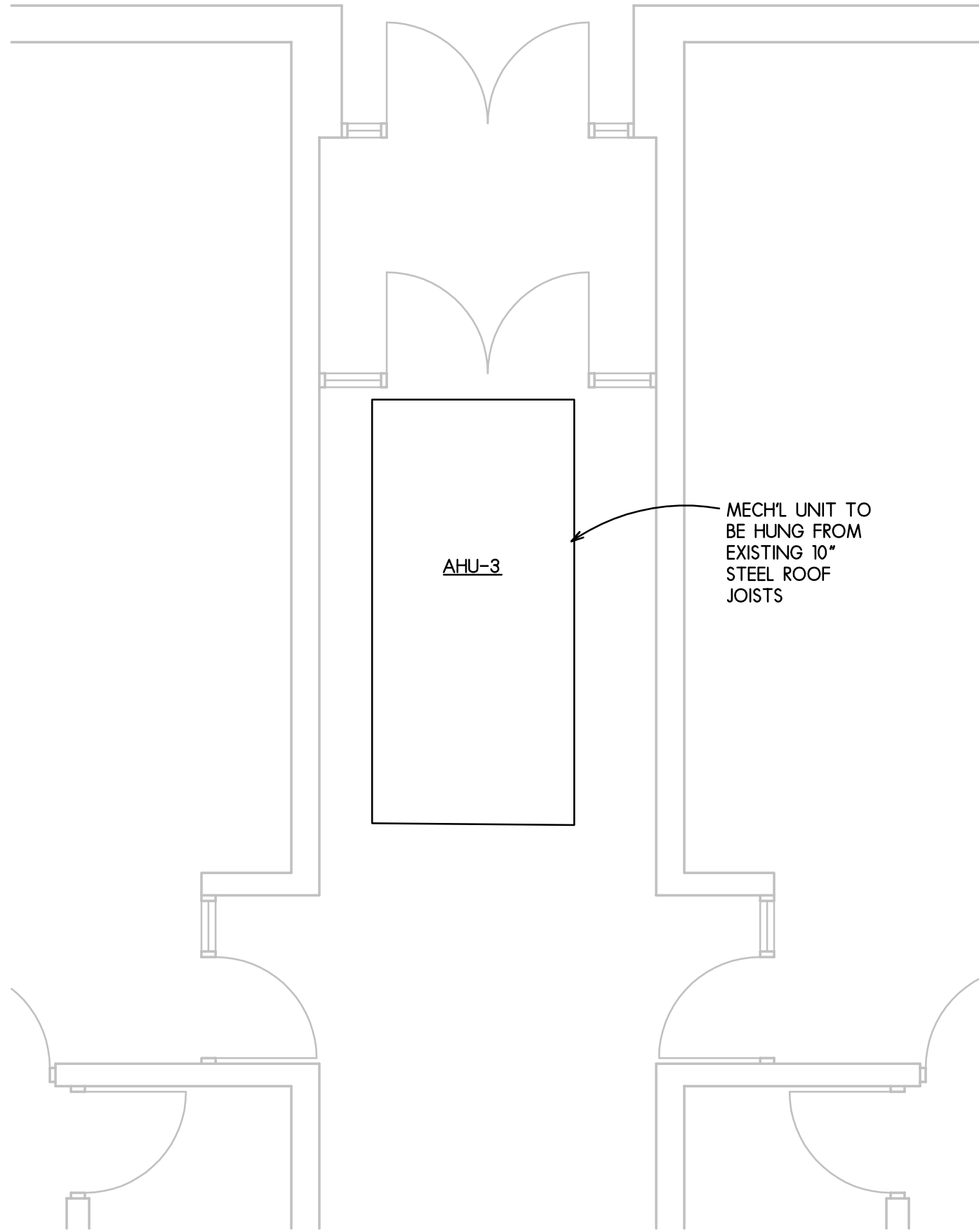
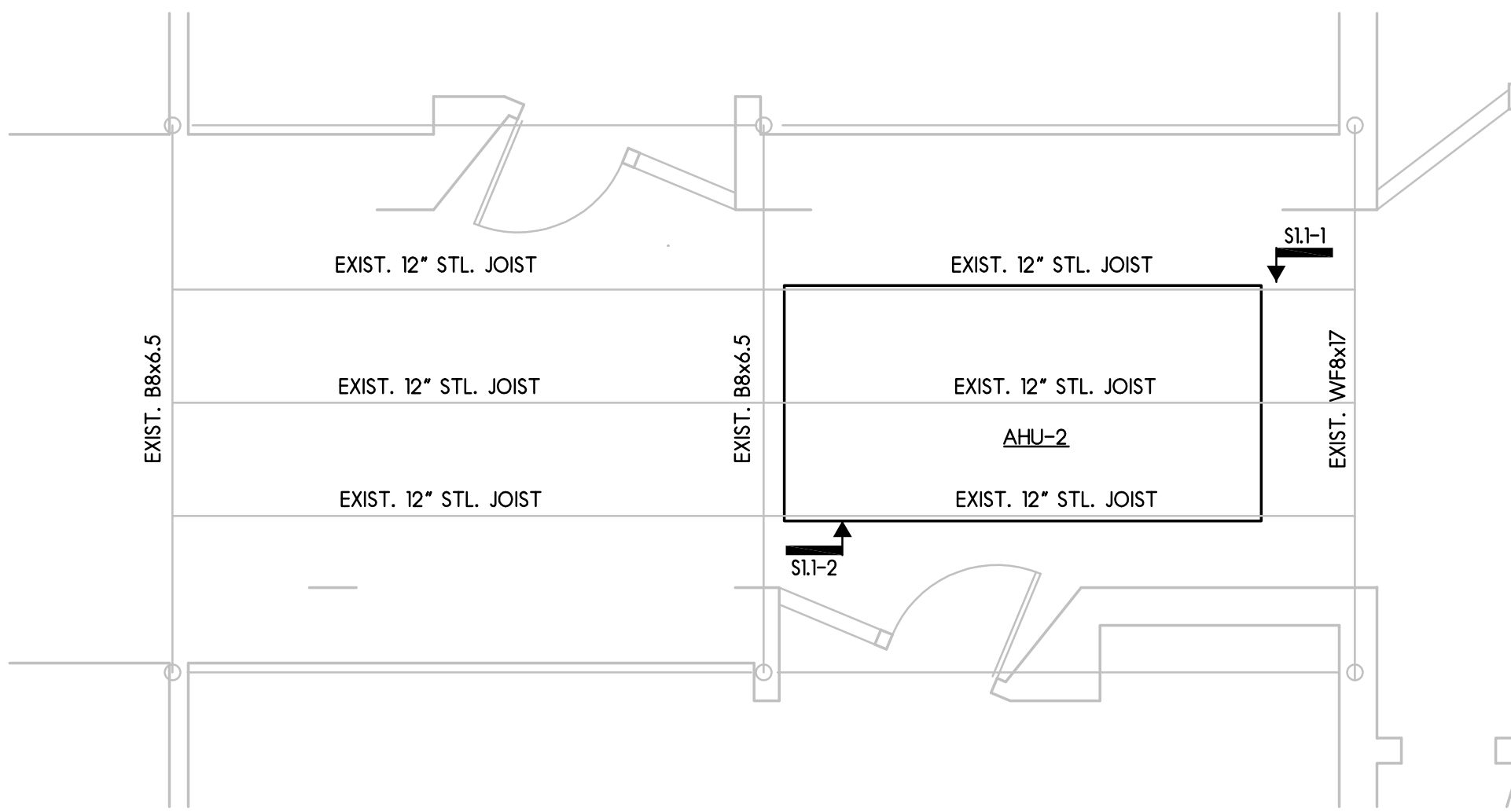
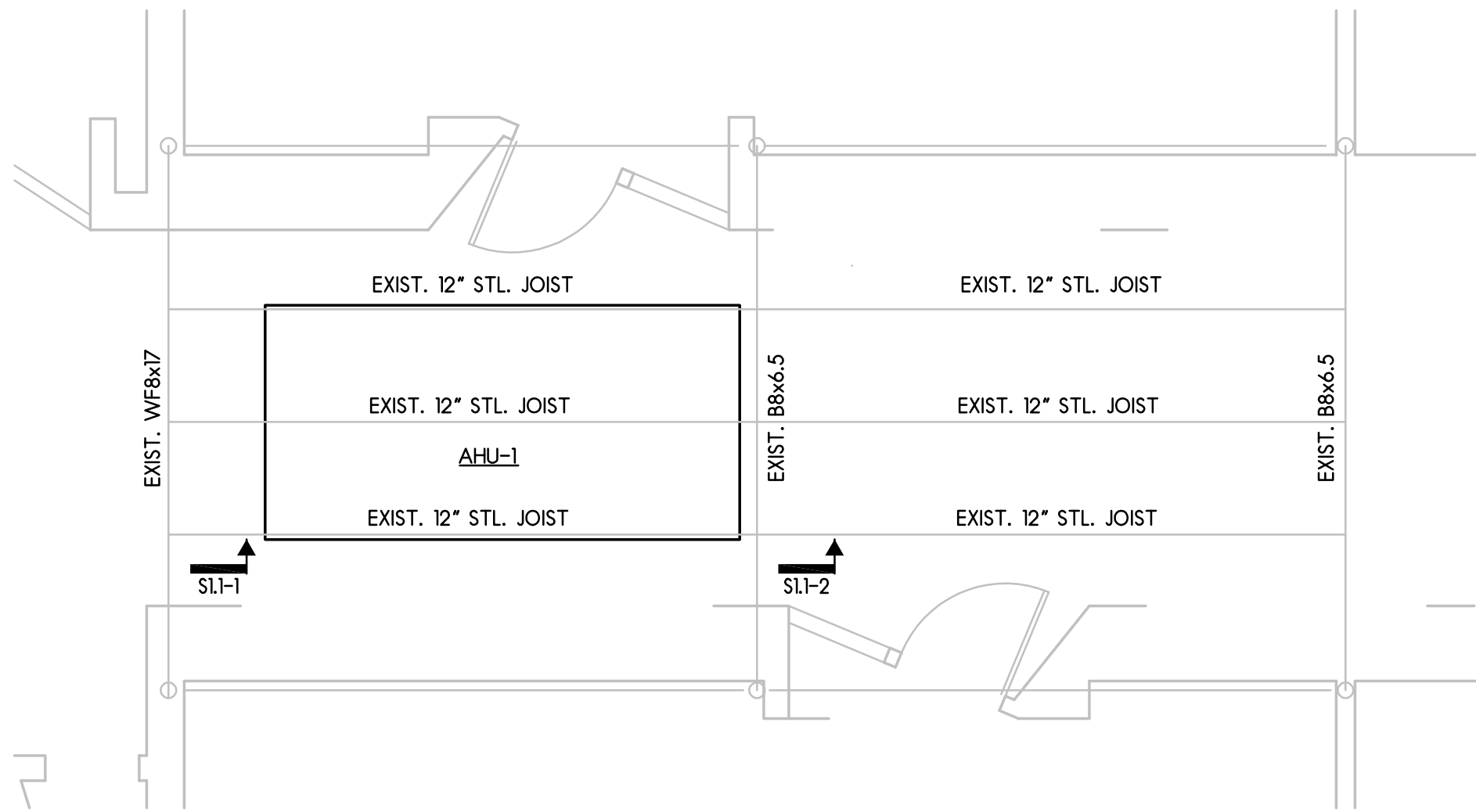
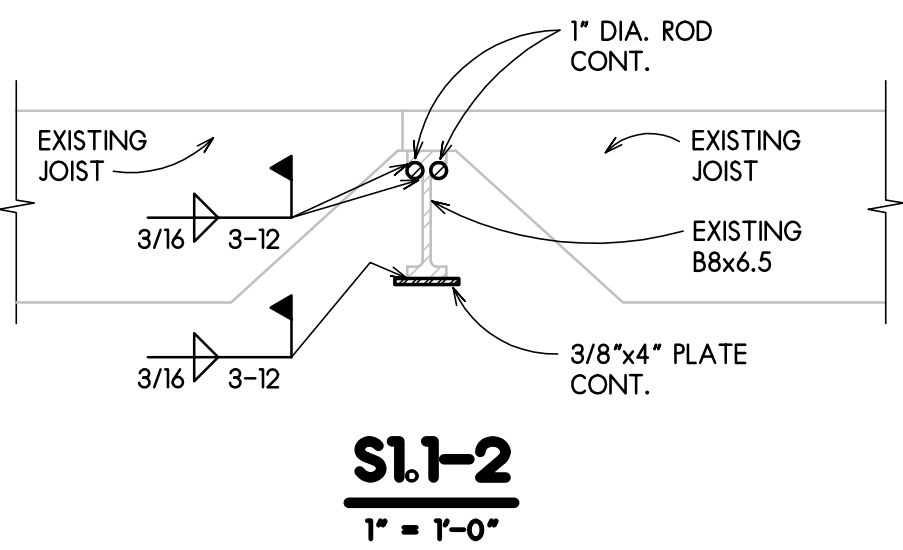
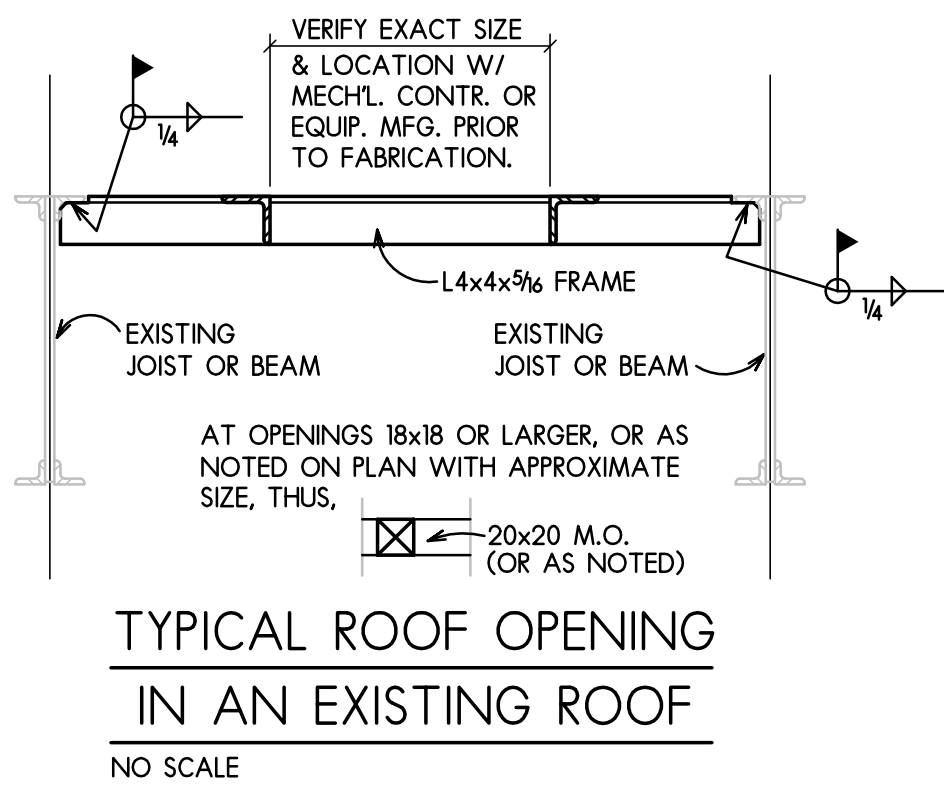
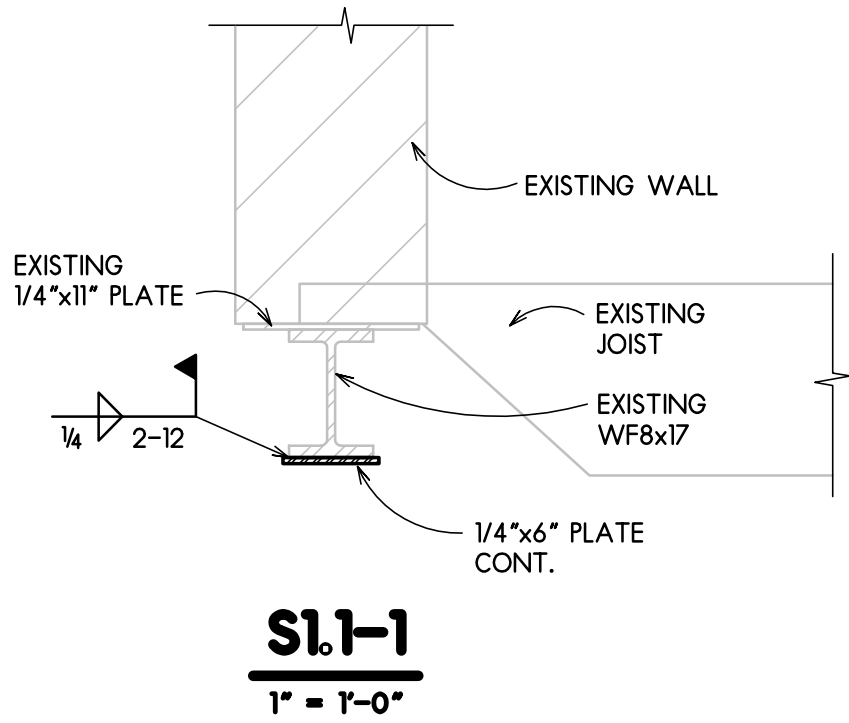
All details, sections and notes shown on the drawings are intended to be typical and shall apply to similar situations elsewhere.

STRUCTURAL STEEL

- Structural wide flange steel shall be ASTM A992 and all other structural steel shall be ASTM A36. All material and workmanship shall conform to the requirements of the AISC Specifications adopted 1989.
- Shop Connections: ASTM A325 HS bearing bolts, or welded E70XX.
- Field Connections: ASTM A325 HS bolts bearing type, or welded E70XX and as indicated on the drawings.
- Bolts shall be 3/4" diameter unless otherwise noted.

DIMENSIONS AT EXISTING BUILDING AREAS

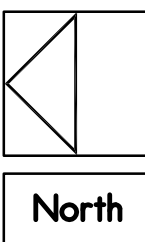
Dimensions shown on plans and details are for bidding purposes only. They are results of information taken from existing drawings. All dimensions are to be verified and coordinated by the General Contractor during the construction phase.



FRAMING PLANS

SCALE:

1/4" = 1'-0"



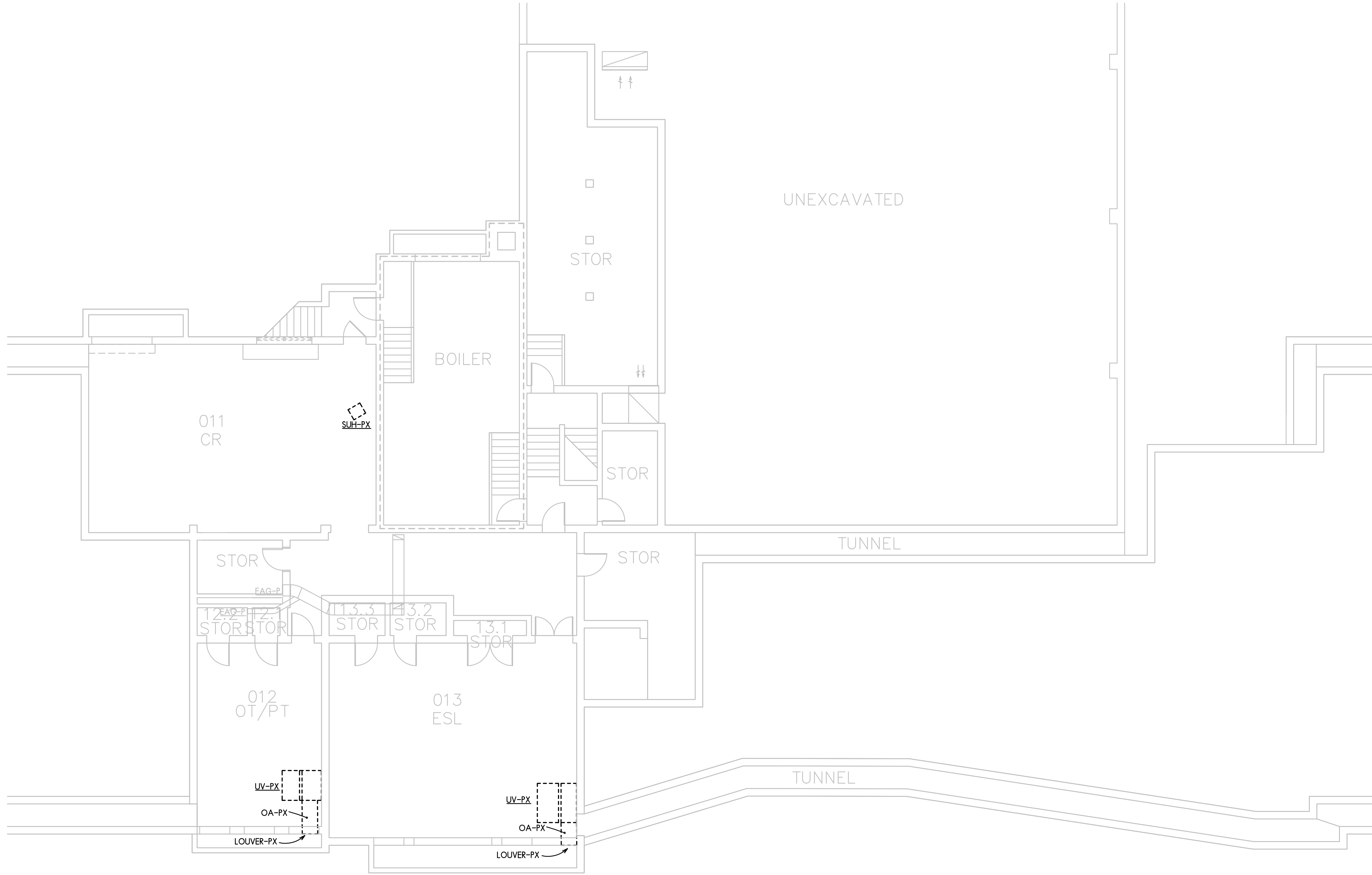
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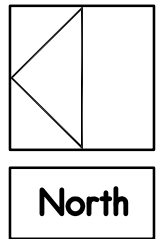
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RIVERDAHL ELEM. SCHOOL HVAC SYSTEM UPGRADES
RPS DISTRICT 205 - PROJECT #2243 - IFB #22-22
3520 KISHWAUKEE ST, ROCKFORD, IL 61109

PROGRESS PRINT
Not For Construction
Date: 01-01-2022
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1 BASEMENT HVAC DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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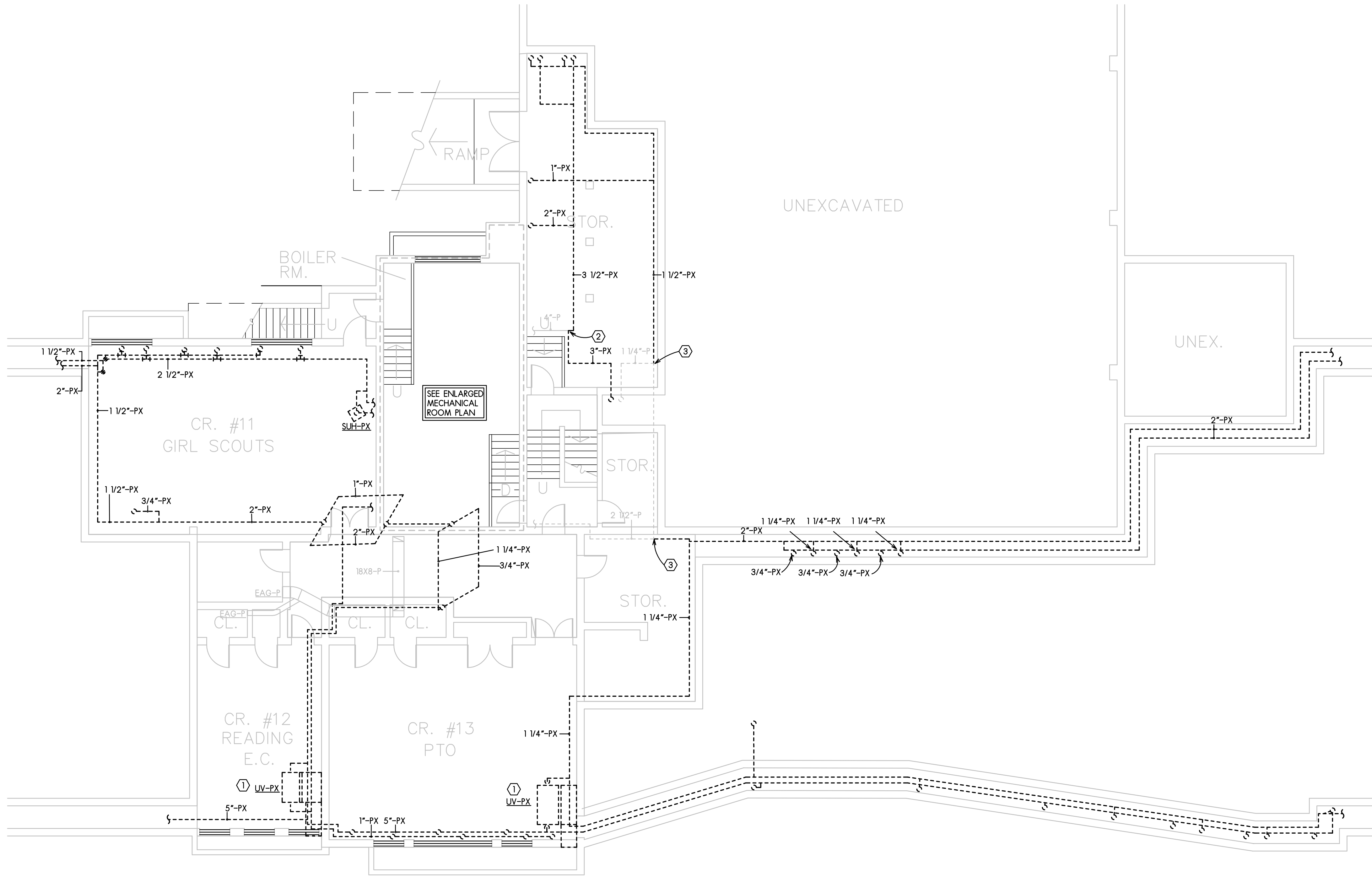
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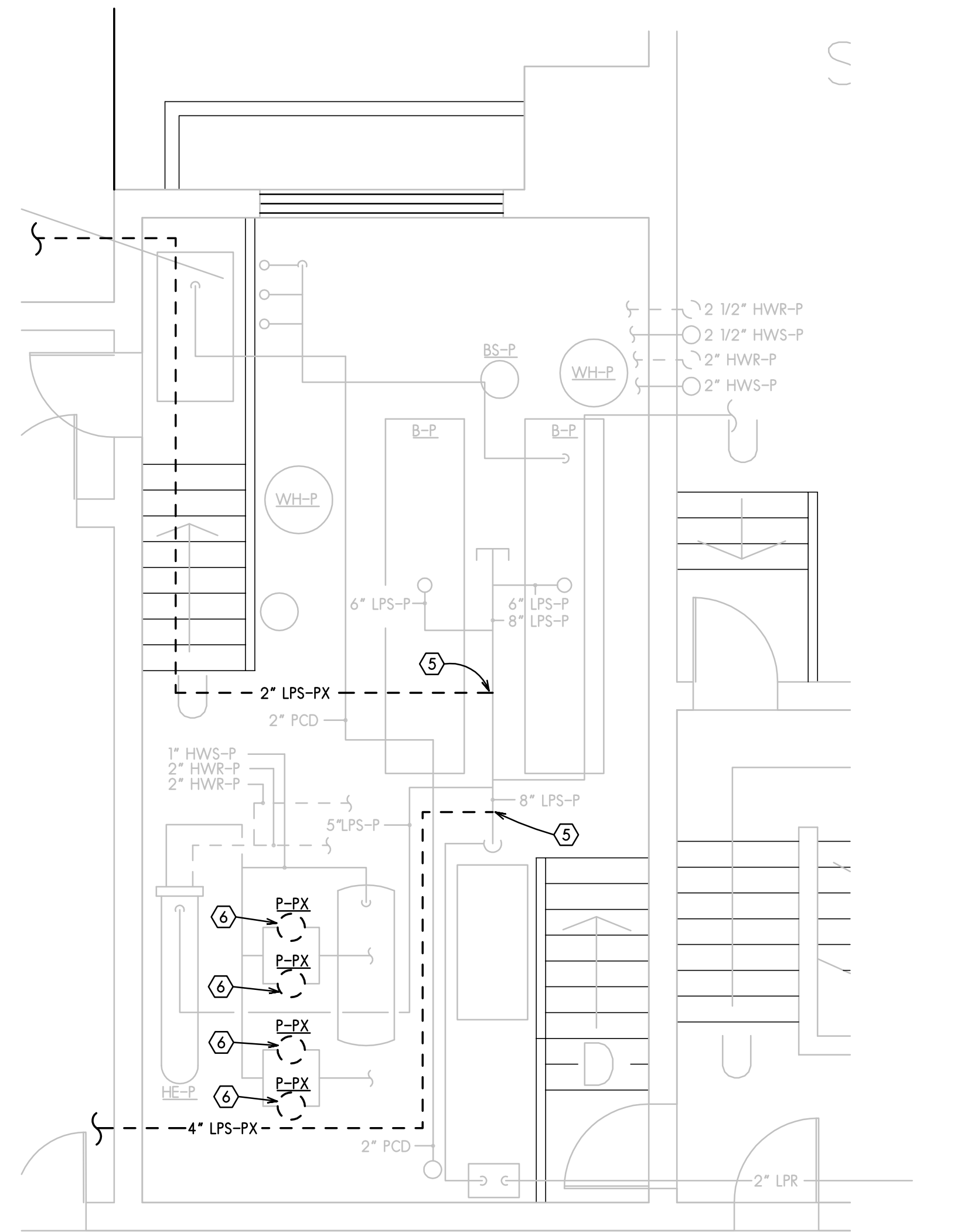
1 BASEMENT MECH. DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

GENERAL MECH. DEMOLITION NOTES

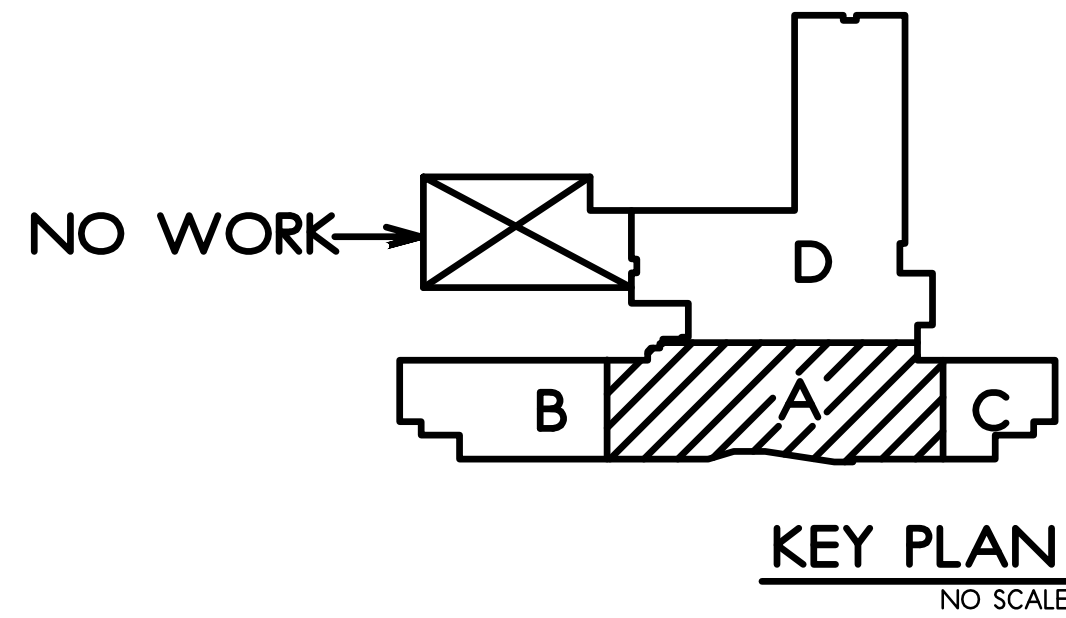
1. REMOVAL AND ABATEMENT OF ASBESTOS AND EQUIPMENT OR MATERIAL CONTAINING ASBESTOS IS THE RESPONSIBILITY OF THE SCHOOL DISTRICT AND SHALL BE COMPLETED UNDER A SEPARATE CONTRACT BETWEEN THE DISTRICT AND AN ENVIRONMENTAL SPECIALIST CONTRACTOR.
2. THIS CONTRACTOR AND HIS SUBS SHALL STOP WORK AND IMMEDIATELY REPORT TO THE DISTRICT ANY ASBESTOS MATERIAL THEY FIND DURING THERE DEMOLITION AND NEW CONSTRUCTION WORK.
3. CONTRACTOR SHALL NOT RESUME WORK UNTIL THE SITUATION IS CLEARED AND REMOVAL/TESTING OF ANY SUSPECTED ASBESTOS MATERIAL IS CONFIRMED BY THE DISTRICT.
4. EXISTING STEAM SUPPLY AND CONDENSATE RETURN PIPING SERVING REMOVED EQUIPMENT SHALL BE REMOVED AND/OR DISCONNECTED AND ABANDONED IN PLACE.
5. DISCONNECTED PIPING SHALL BE REMOVED AND CAPPED AT MAIN STEAM PIPE.
6. ABANDON PIPING IN PLACE SHALL ONLY BE ALLOWED FOR PIPING IN TUNNEL THAT CAN NOT BE REACHED.
7. ALL EXPOSED/ ABOVE FLOOR PIPING SHALL BE REMOVED AND REMAINING OPENING BE CAPPED/ PATCHED TO MATCH EXISTING ADJACENT SURFACE.

MECHANICAL DEMOLITION KEYED NOTES

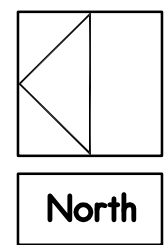
- ① REMOVE EXISTING CLASSROOM UNIT VENTILATOR IN ITS ENTIRETY. REMOVE UNIT AND ASSOCIATED ACCESSORIES, LOUVER, CONTROLS, PIPING ETC..
- ② REMOVE EXISTING STEAM SUPPLY AS SHOWN. PREPARE TO CONNECT NEW PIPING AS SHOWN ON NEW WORK PLAN.
- ③ REMOVE EXISTING STEAM SUPPLY/CONDENSATE BACK TO THIS POINT AND CAP.
- ④ REMOVE EXISTING STEAM SUPPLY/CONDENSATE AS SHOWN.
- ⑤ REMOVE STEAM MAIN BACK TO STEAM HEADER AS SHOWN AND CAP.
- ⑥ REMOVE EXISTING INLINE HEATING WATER PUMP. PREPARE TO REPLACE WITH NEW UNIT AS SHOWN ON NEW WORK PLAN.



2 ENLARGED MECHANICAL ROOM DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



MECH DEMOLITION PLANS
SCALE: AS SHOWN



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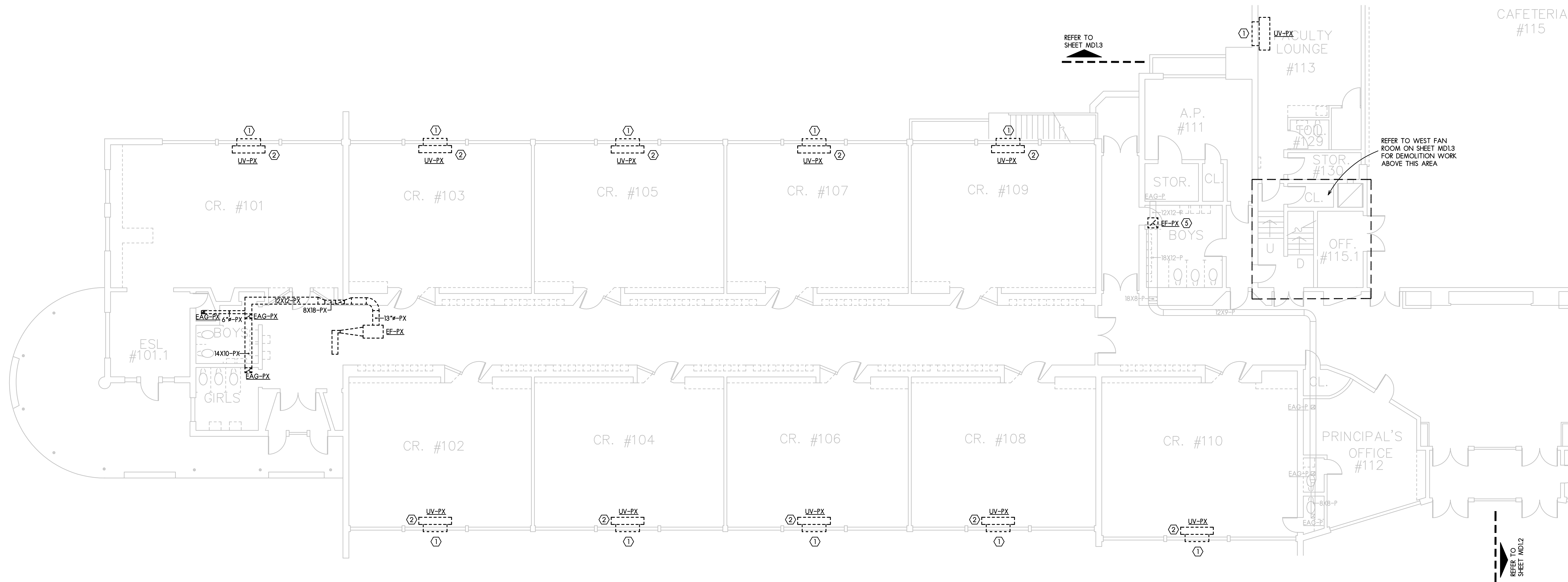
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GENERAL HVAC DEMOLITION NOTES

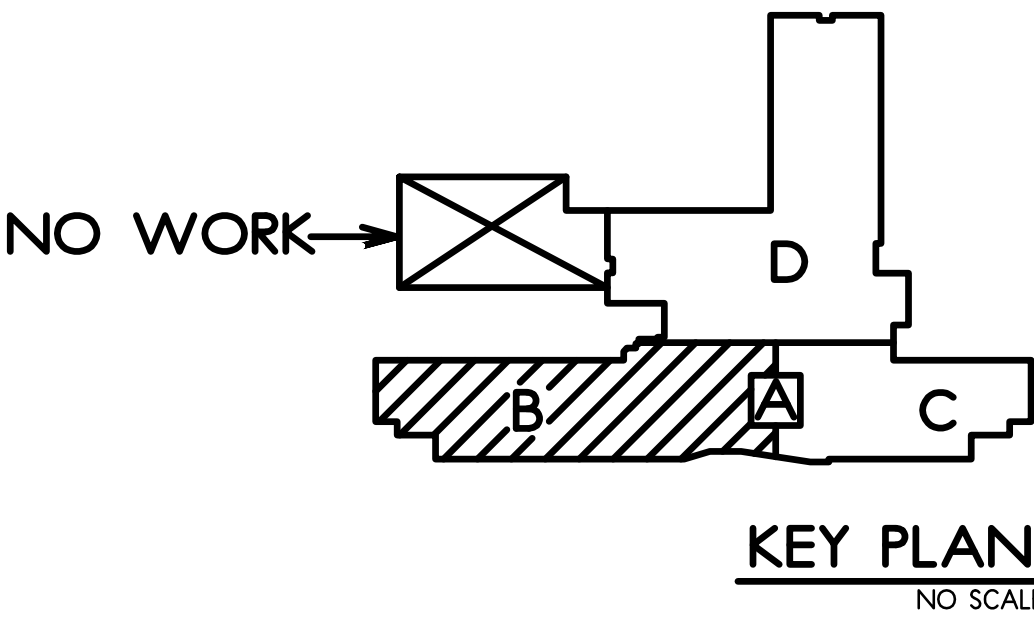
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3. CONTRACTOR SHALL NOT RESUME WORK UNTIL THE SITUATION IS CLEARED AND REMOVAL/TESTING OF ANY SUSPECTED ASBESTOS MATERIAL IS CONFIRMED BY THE DISTRICT.

KEYED NOTES:

- ① REMOVE EXISTING LOUVER AND INFILL OPENING. REFER TO TYP. INFILL DETAIL FOR MORE INFORMATION.
- ② REMOVE EXISTING CLASSROOM UNIT VENTILATOR IN ITS ENTIRETY. REMOVE UNIT AND ASSOCIATED ACCESSORIES, LOUVER, CONTROLS, PIPING ETC.
- ③ REMOVE EXISTING AHU IN ITS ENTIRETY. REMOVE ASSOCIATED STEAM PIPING AND DUCTWORK AS SHOWN.
- ④ REMOVE RETURN AIR DUCT AS SHOWN BACK TO THIS POINT (APPROXIMATELY). PREPARE TO EXTEND NEW DUCT AS SHOWN ON NEW WORK PLAN.
- ⑤ REMOVE EXISTING EXHAUST FAN ON ROOF AND PREPARE TO REPLACE WITH NEW FAN OF SAME SIZE AND CAPACITY. EXISTING CURB TO REMAIN. REFER TO NEW WORK PLAN.
- ⑥ REMOVE RELIEF FAN & ASSOCIATED DUCTWORK, SA, RA & OA DUCTWORK, ETC... IN THIS ROOM. EXISTING LOUVERS SHALL REMAIN AND SHALL BE CAPPED AND SEALED AIR-TIGHT WITH INSULATED METAL PANELS.

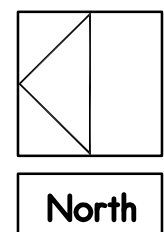


1 HVAC AREA B DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



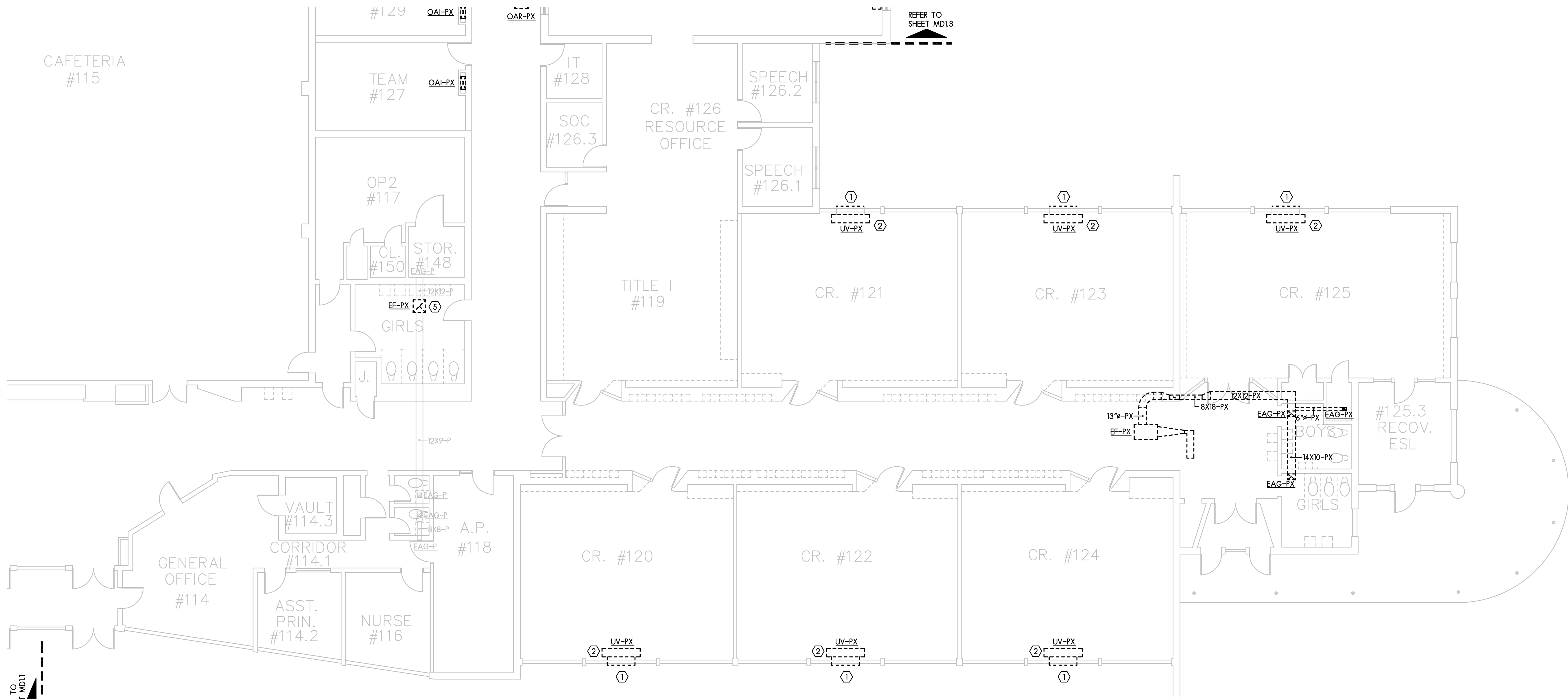
HVAC DEMOLITION PLANS

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



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SHEET NUMBER	MD1.1		
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SHEET NUMBER	MD1.1



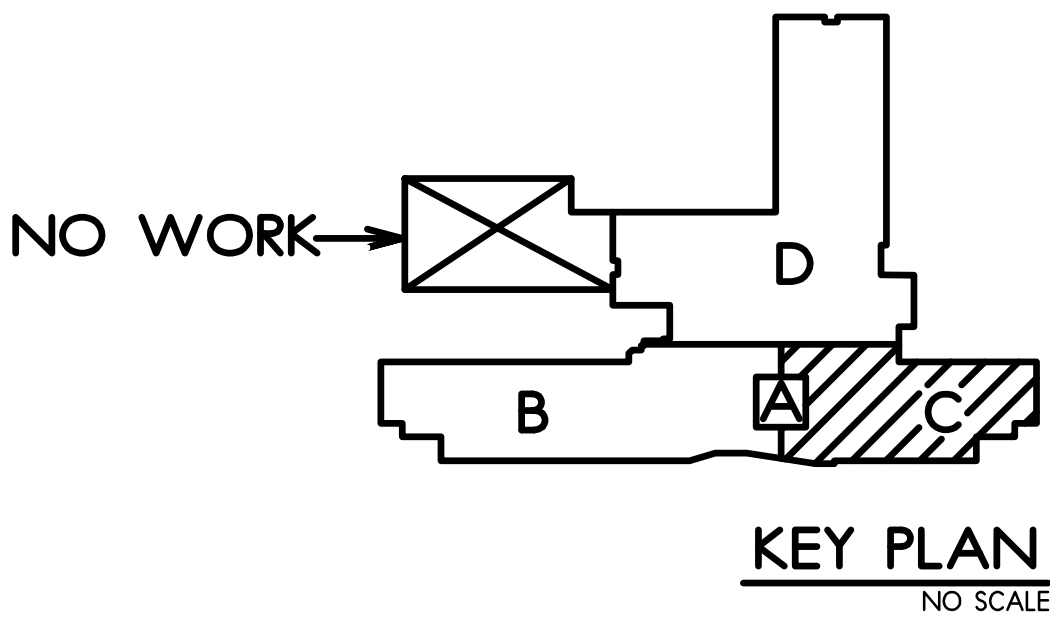
1 HVAC AREA C DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

KEYED NOTES:

- 1 REMOVE EXISTING LOUVER AND INFILL OPENING. REFER TO TYP. INFILL DETAIL FOR MORE INFORMATION.
- 2 REMOVE EXISTING CLASSROOM UNIT VENTILATOR IN ITS ENTIRETY. REMOVE UNIT AND ASSOCIATED ACCESSORIES, LOUVER, CONTROLS, PIPING ETC.
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- 4 REMOVE RETURN AIR DUCT AS SHOWN BACK TO THIS POINT (APPROXIMATELY). PREPARE TO EXTEND NEW DUCT AS SHOWN ON NEW WORK PLAN.
- 5 REMOVE EXISTING EXHAUST FAN ON ROOF AND PREPARE TO REPLACE WITH NEW FAN OF SAME SIZE AND CAPACITY. EXISTING CURB TO REMAIN. REFER TO NEW WORK PLAN.
- 6 REMOVE RELIEF FAN & ASSOCIATED DUCTWORK, SA, RA & OA DUCTWORK, ETC... IN THIS ROOM. EXISTING LOUVERS SHALL REMAIN AND SHALL BE CARPED AND SEALED AIR-TIGHT WITH INSULATED METAL PANELS.

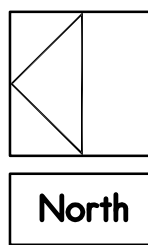
GENERAL HVAC DEMOLITION NOTES

1. REMOVAL AND ABATEMENT OF ASBESTOS AND EQUIPMENT OR MATERIAL CONTAINING ASBESTOS IS THE RESPONSIBILITY OF THE SCHOOL DISTRICT AND SHALL BE COMPLETED UNDER A SEPARATE CONTRACT BETWEEN THE DISTRICT AND AN ENVIRONMENTAL SPECIALIST CONTRACTOR.
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HVAC DEMOLITION PLANS

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



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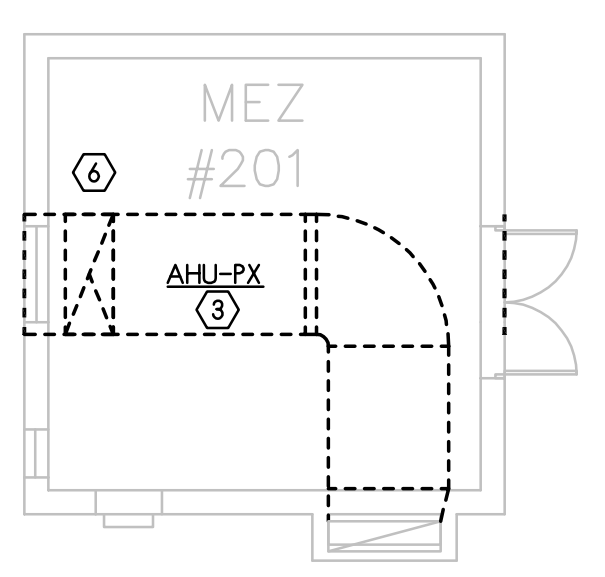
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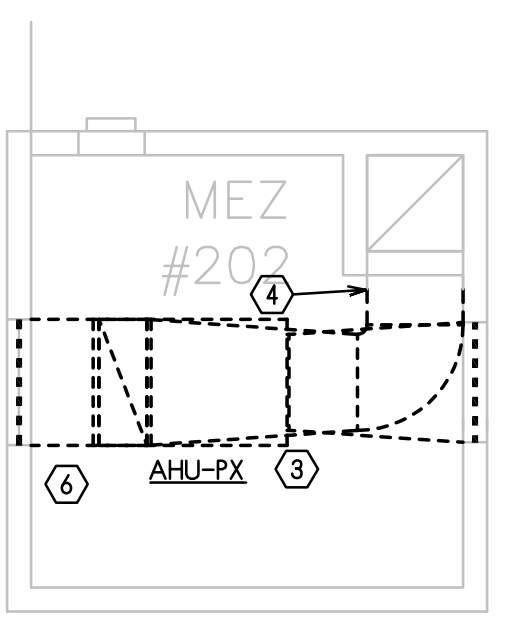
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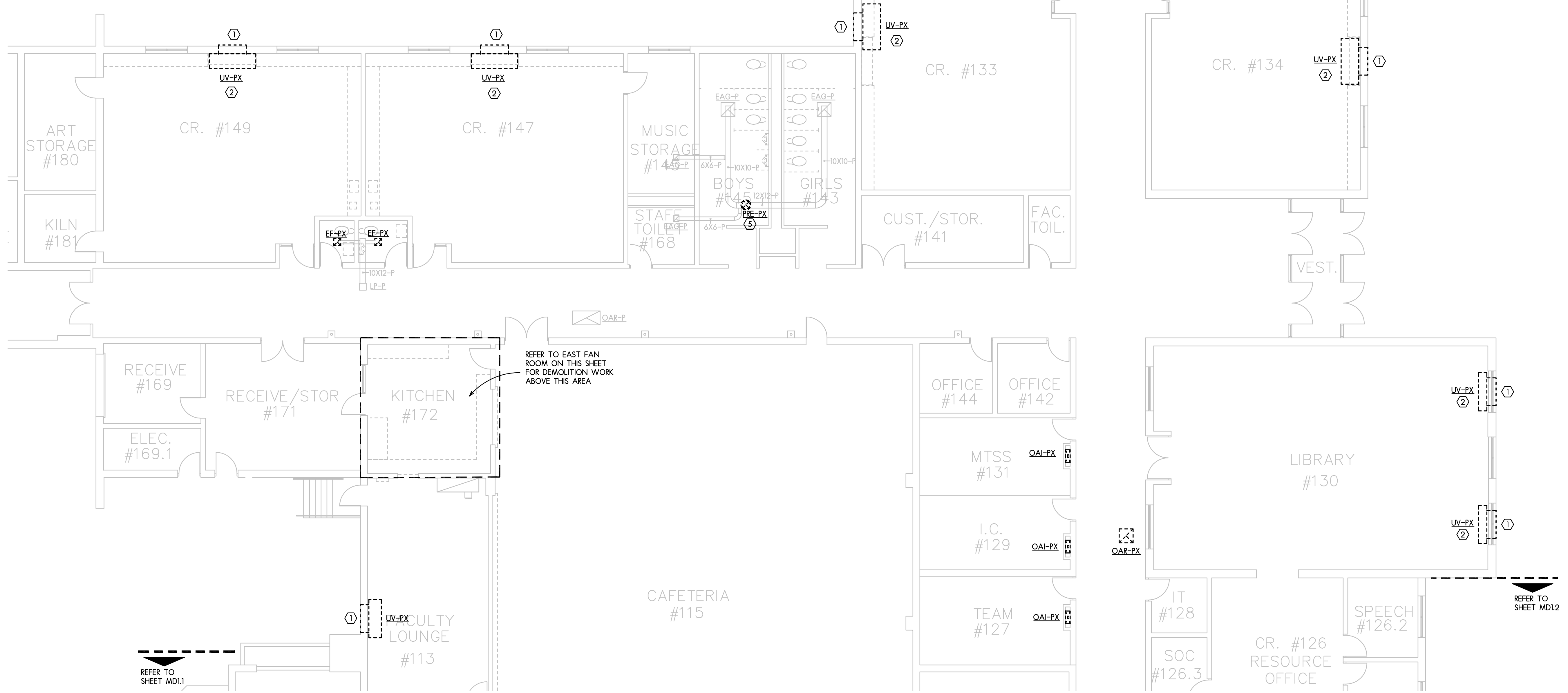
2 EAST FAN ROOM DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



3 WEST FAN ROOM DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



1 AREA D DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

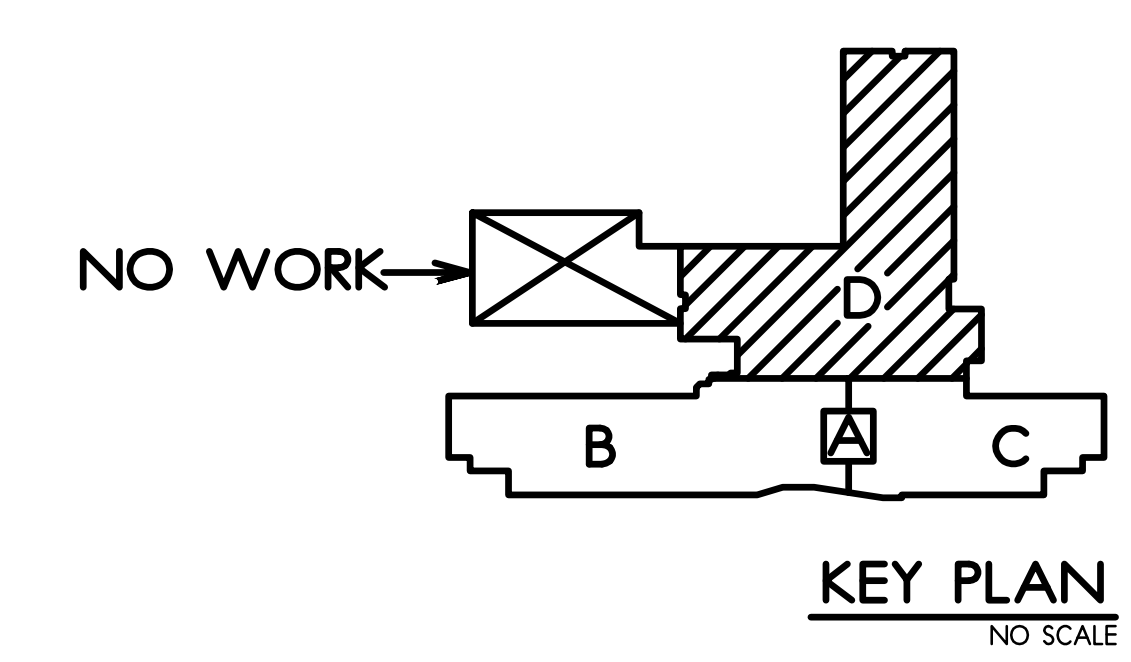


GENERAL HVAC DEMOLITION NOTE

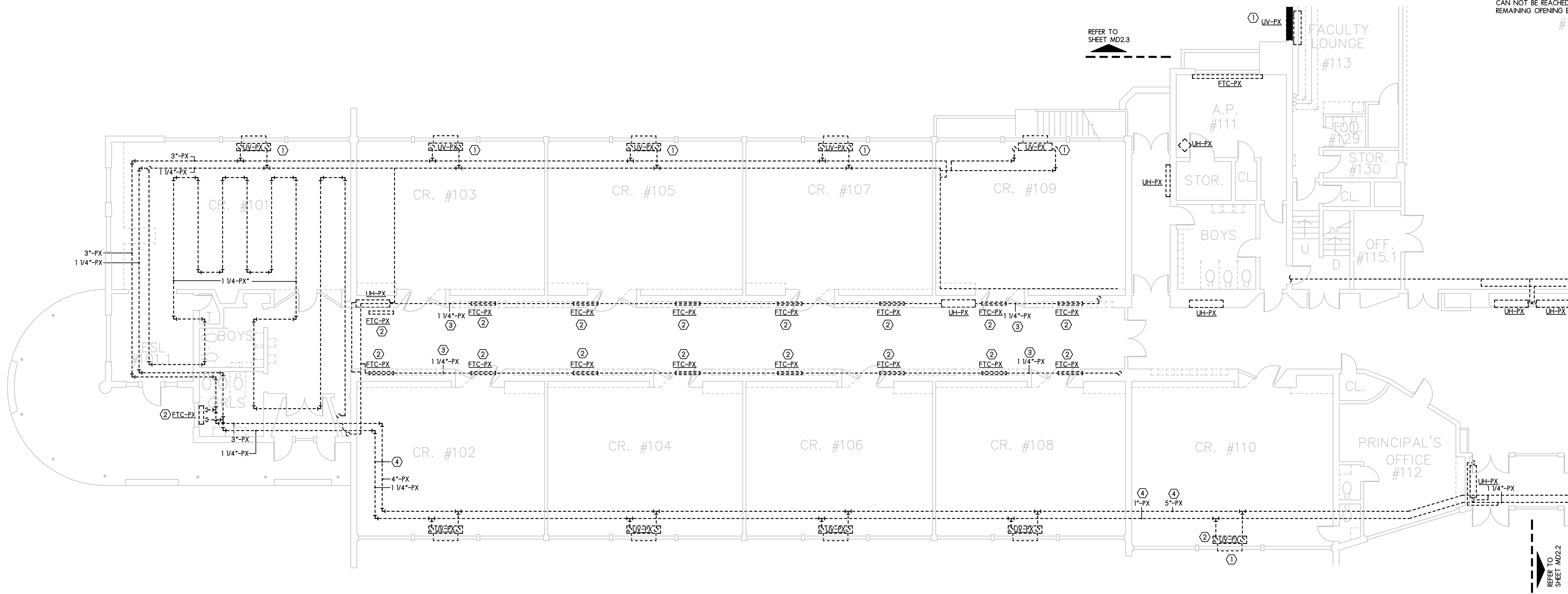
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KEYED NOTES:

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- REMOVE EXISTING CLASSROOM UNIT VENTILATOR IN ITS ENTIRETY. REMOVE UNIT AND ASSOCIATED ACCESSORIES, LOUVER, CONTROLS, PIPING ETC..
- REMOVE EXISTING AHU IN ITS ENTIRETY. REMOVE ASSOCIATED STEAM PIPING AND DUCTWORK AS SHOWN.
- REMOVE RETURN AIR DUCT AS SHOWN BACK TO THIS POINT (APPROXIMATELY). PREPARE TO EXTEND NEW DUCT AS SHOWN ON NEW WORK PLAN.
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- REMOVE RELIEF FAN & ASSOCIATED DUCTWORK, SA, RA & OA DUCTWORK, ETC.. IN THIS ROOM. EXISTING LOUVERS SHALL REMAIN AND SHALL BE CAPPED AND SEALED AIR-TIGHT WITH INSULATED METAL PANELS.



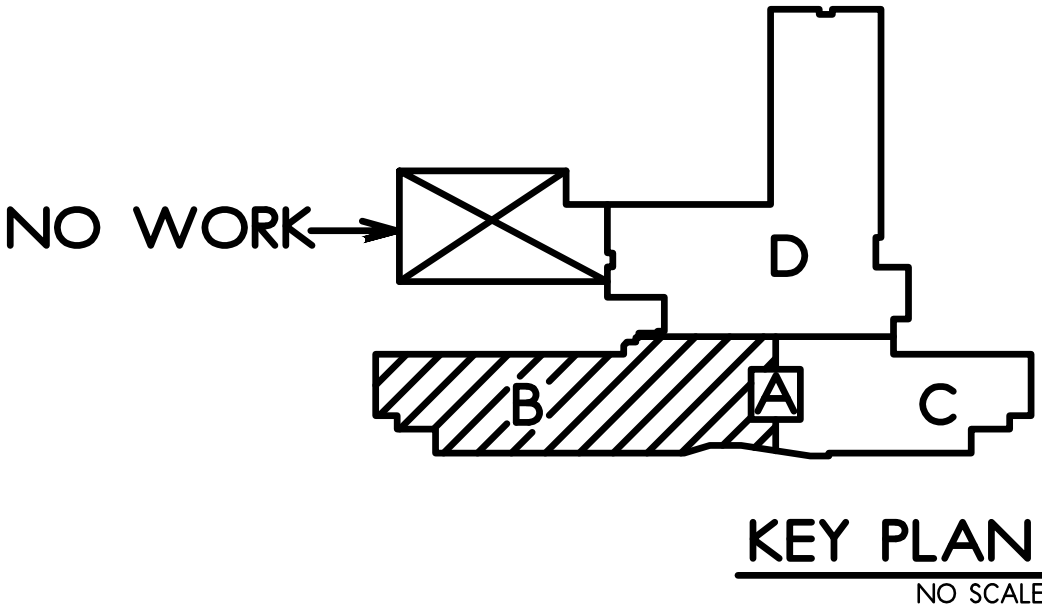
HVAC DEMOLITION PLANS
SCALE: 1/8" = 1'-0"



MECHANICAL DEMOLITION KEYED NOTES

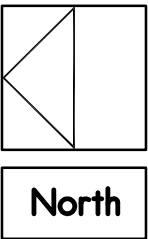
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- ③ REMOVE EXISTING HWVSHWR PIPING AS SHOWN BACK TO MAIN AND CAP.
- ④ EXISTING STEAM SUPPLY AND CONDENSATE RETURN PIPING SERVING REMOVED EQUIPMENT SHALL BE REMOVED AND/OR DISCONNECTED AND ABANDONED IN PLACE. DISCONNECTED PIPING SHALL BE REMOVED AND CAPPED AT MAIN STEAM PIPE. ABANDON PIPING IN PLACE SHALL ONLY BE ALLOWED FOR PIPING IN TUNNEL THAT CAN NOT BE REACHED. ALL EXPOSED/ ABOVE FLOOR PIPING SHALL BE REMOVED AND REMAINING OPENING BE CAPPED/ PATCHED TO MATCH EXISTING ADJACENT SURFACE.

① MECH. DEMOLITION AREA B WORK PLAN
SCALE: 1/8" = 1'-0"



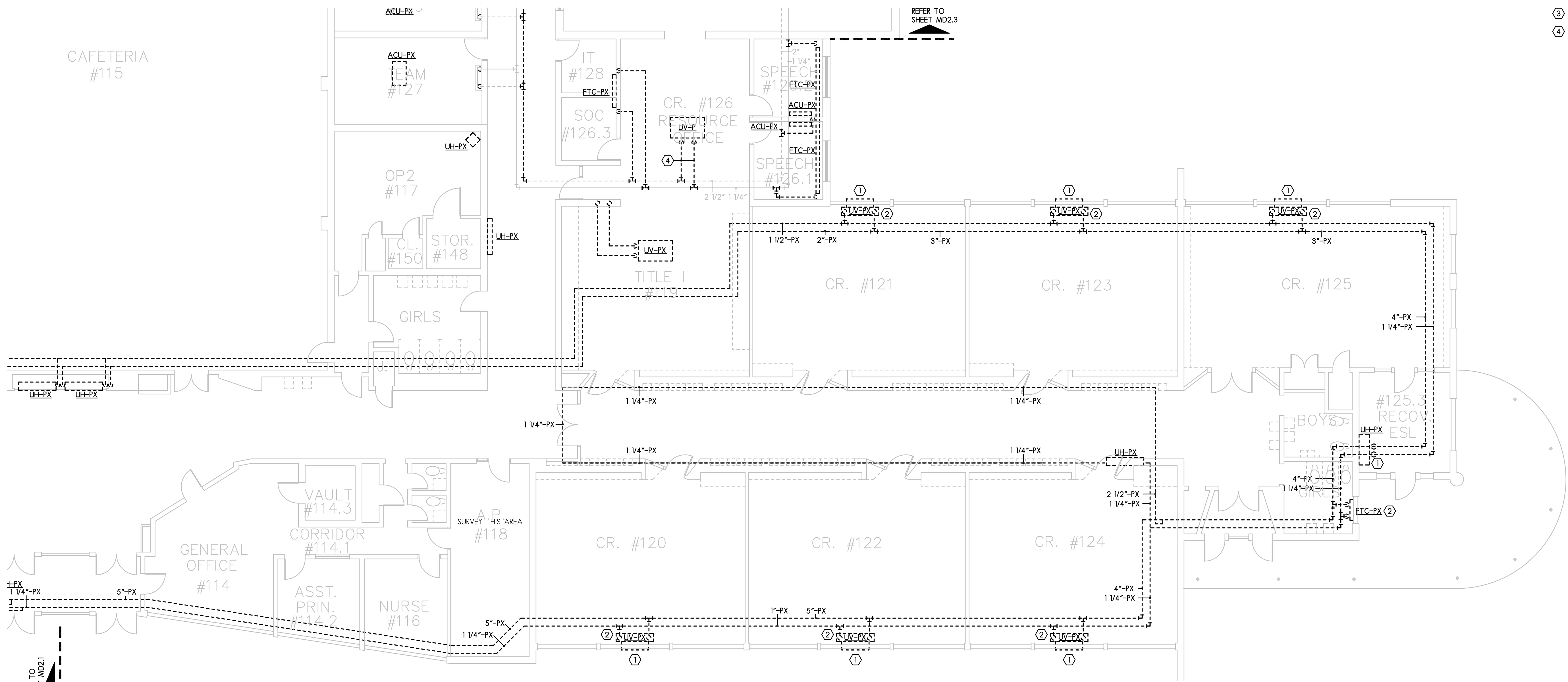
MECH. DEMOLITION WORK PLANS

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



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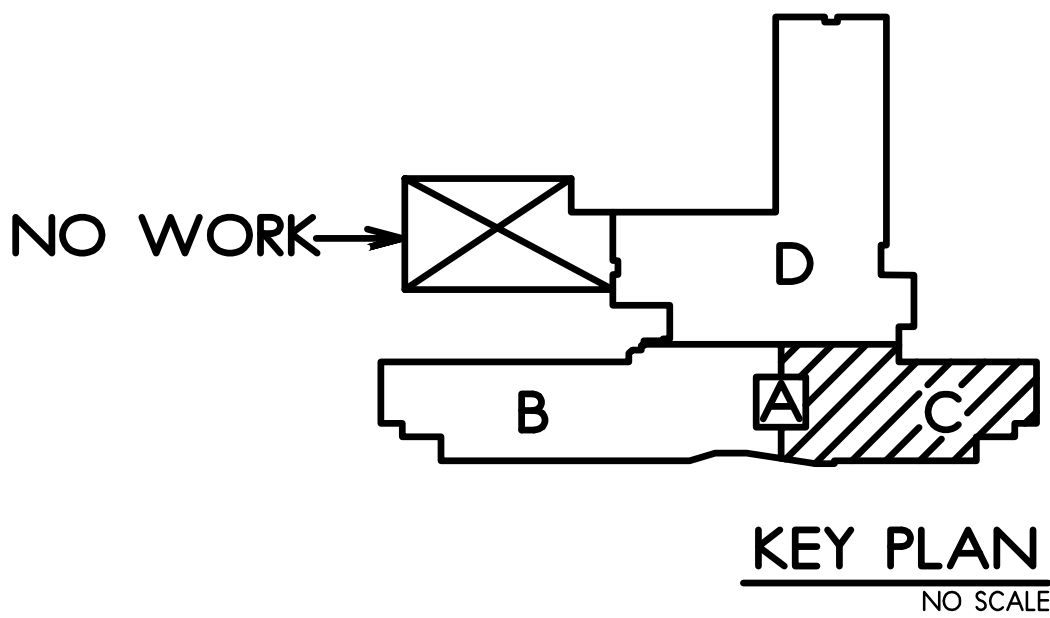
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MECHANICAL DEMOLITION KEYED NOTES

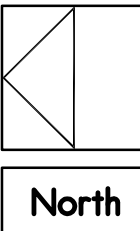
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① MECH. DEMOLITION AREA C WORK PLAN
SCALE: 1/8" = 1'-0"



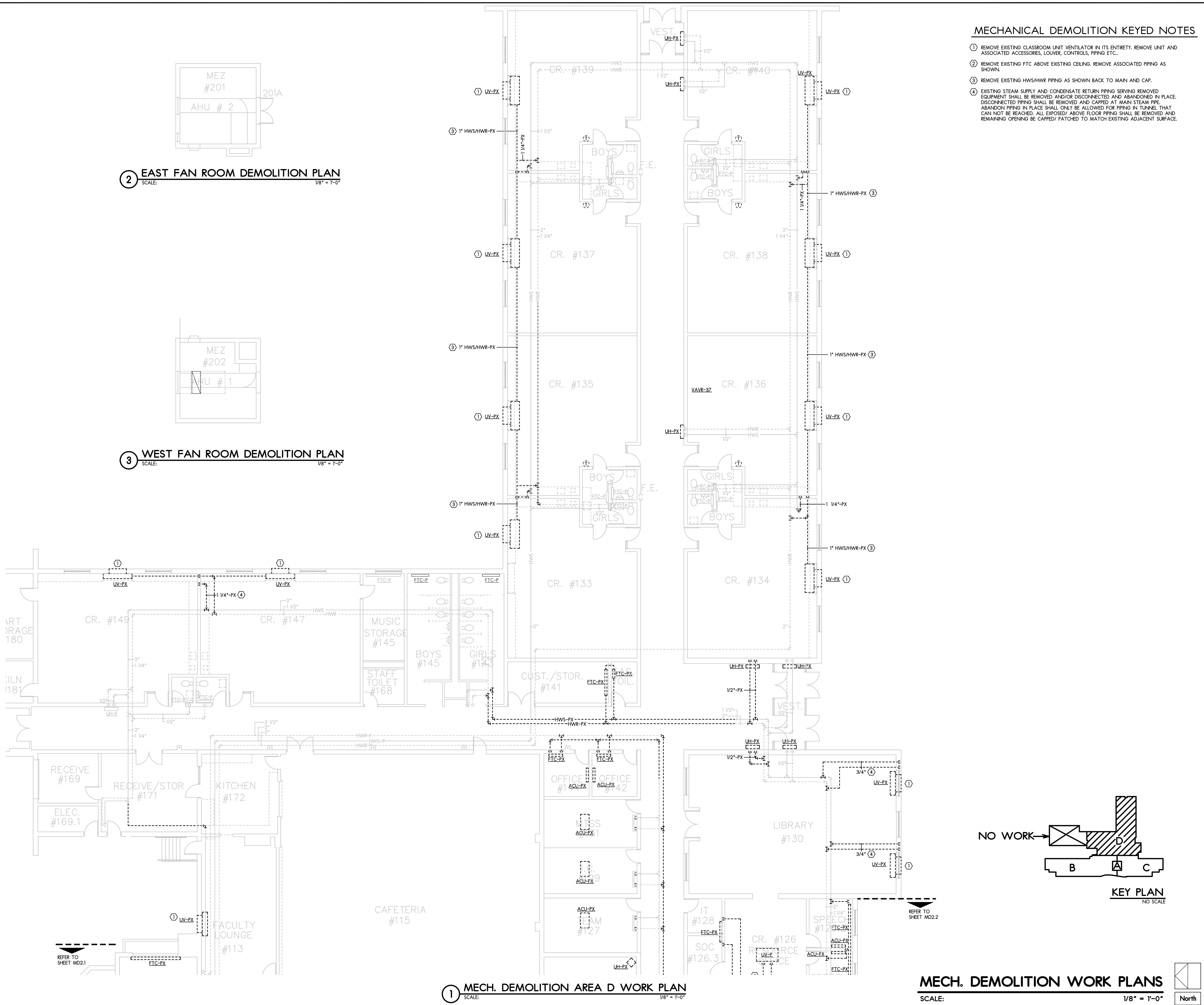
MECH. DEMOLITION WORK PLANS

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



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			RAS

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SHEET NUMBER	MD2.2



MECHANICAL DEMOLITION KEYED NOTES

- ① REMOVE EXISTING CLASSROOM UNIT VENTILATOR IN ITS ENTIRETY. REMOVE UNIT AND ASSOCIATED ACCESSORIES, LOUVER, CONTROLS, PIPING ETC..
- ② REMOVE EXISTING FTC ABOVE EXISTING CEILING. REMOVE ASSOCIATED PIPING AS SHOWN.
- ③ REMOVE EXISTING HWS/HWR PIPING AS SHOWN BACK TO MAIN AND CAP.
- ④ EXISTING STEAM SUPPLY AND CONDENSATE RETURN PIPING SERVING REMOVED EQUIPMENT SHALL BE REMOVED AND/OR DISCONNECTED AND ABANDONED IN PLACE. DISCONNECTED PIPING SHALL BE REMOVED AND CAPPED AT MAIN STEAM PIPE. ABANDON PIPING IN PLACE SHALL ONLY BE ALLOWED FOR PIPING IN TUNNEL THAT CAN NOT BE REACHED. ALL EXPOSED/ ABOVE FLOOR PIPING SHALL BE REMOVED AND REMAINING OPENING BE CAPPED/ PATCHED TO MATCH EXISTING ADJACENT SURFACE.

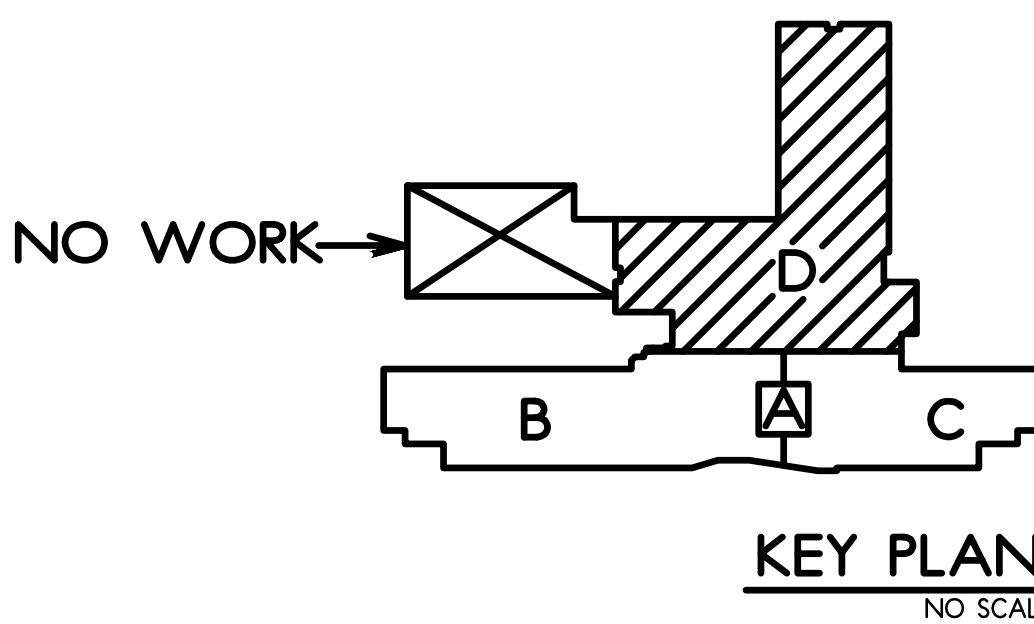
② EAST FAN ROOM DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

③ WEST FAN ROOM DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

① MECH. DEMOLITION AREA D WORK PLAN
SCALE: 1/8" = 1'-0"

MECH. DEMOLITION WORK PLANS

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



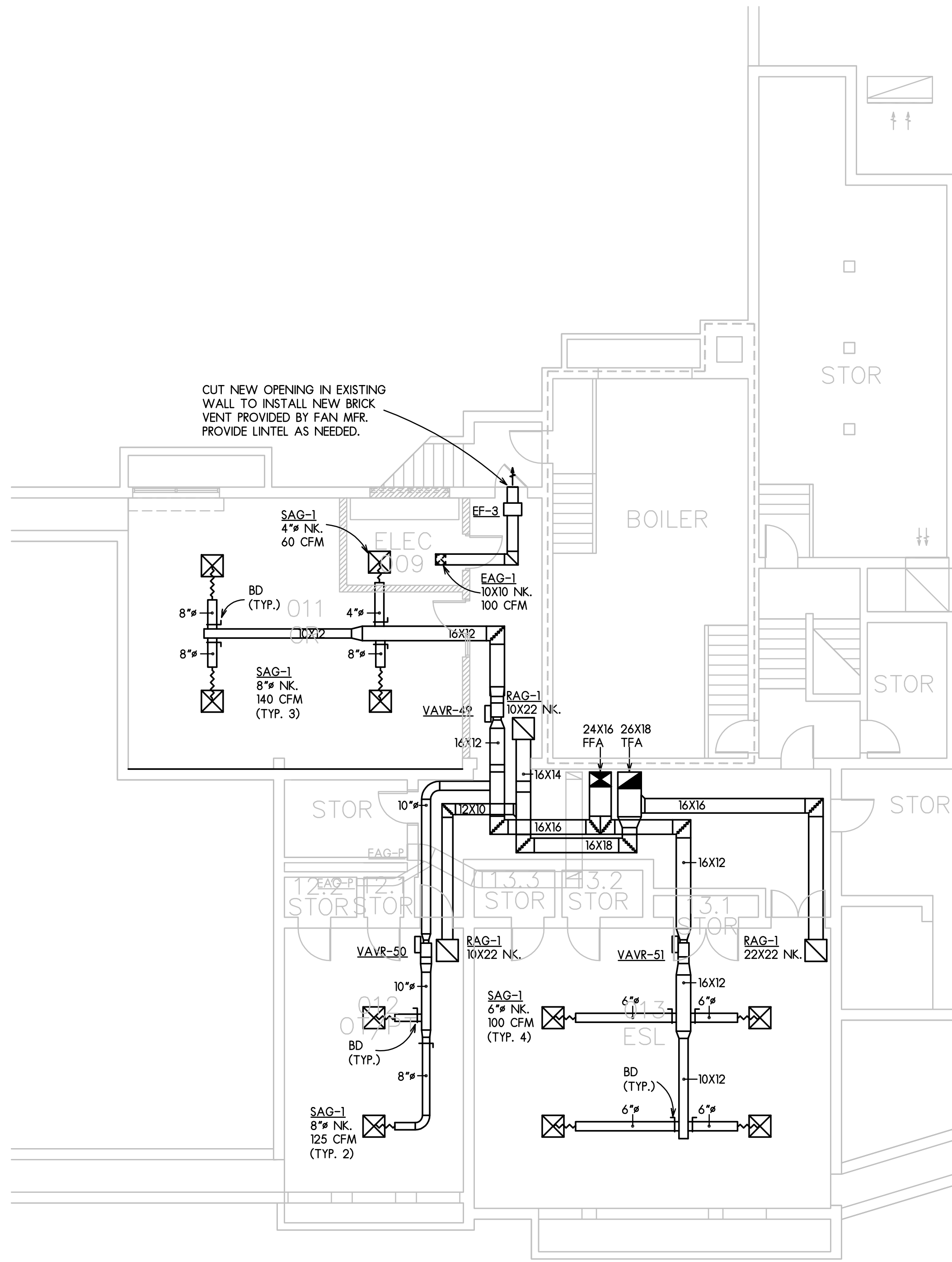
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RIVERDAHL ELEM. SCHOOL HVAC SYSTEM UPGRADES
RPS DISTRICT 205 – PROJECT #2243 – IFB #22-22
3520 KISHWAUKEE ST, ROCKFORD, IL 61109

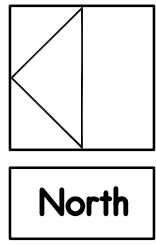
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ISSUED FOR:	01-21-22	ISSUED FOR:	01-21-22
PROJECT NUMBER	31029-02	PROJECT NUMBER	31029-02
SHEET NUMBER	MD2.3	SHEET NUMBER	MD2.3
DRAWN BY:	JJ	CHECKED BY:	JJ
APPROVED BY:	RAS	APPROVED BY:	RAS

DATE: 01-21-2022
PROJECT NUMBER
31029-02
SHEET NUMBER
MD2.3



1 BASEMENT HVAC NEW WORK PLAN
SCALE: 1/8" = 1'-0"

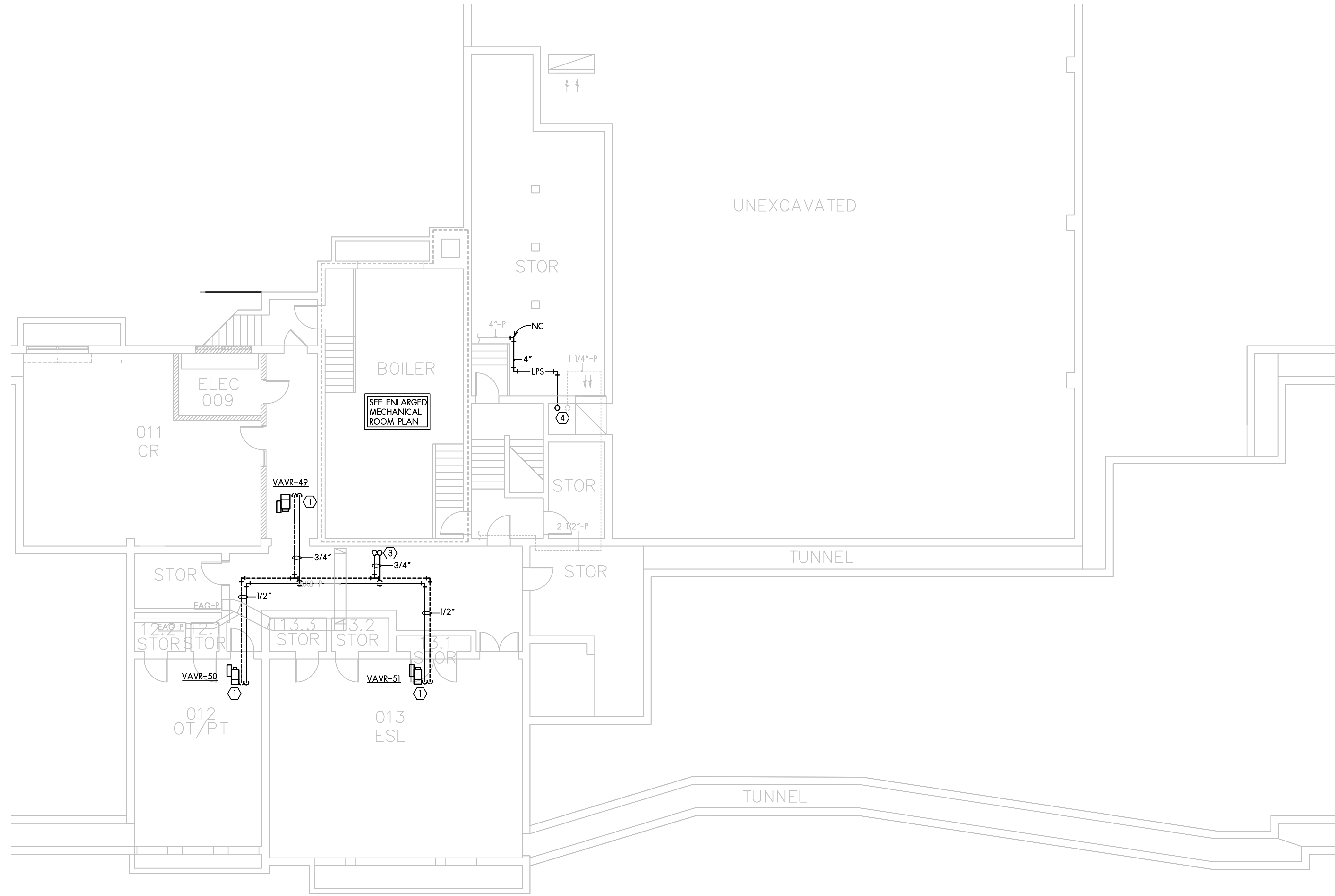


ISSUED FOR:	01-21-22	ISSUED FOR:	BIDDING
DRAWN BY:	JJ	CHECKED BY:	RAS
APPROVED BY:			

DATE: 01-21-2022	PROJECT NUMBER
31029-02	SHEET NUMBER
M0.1	

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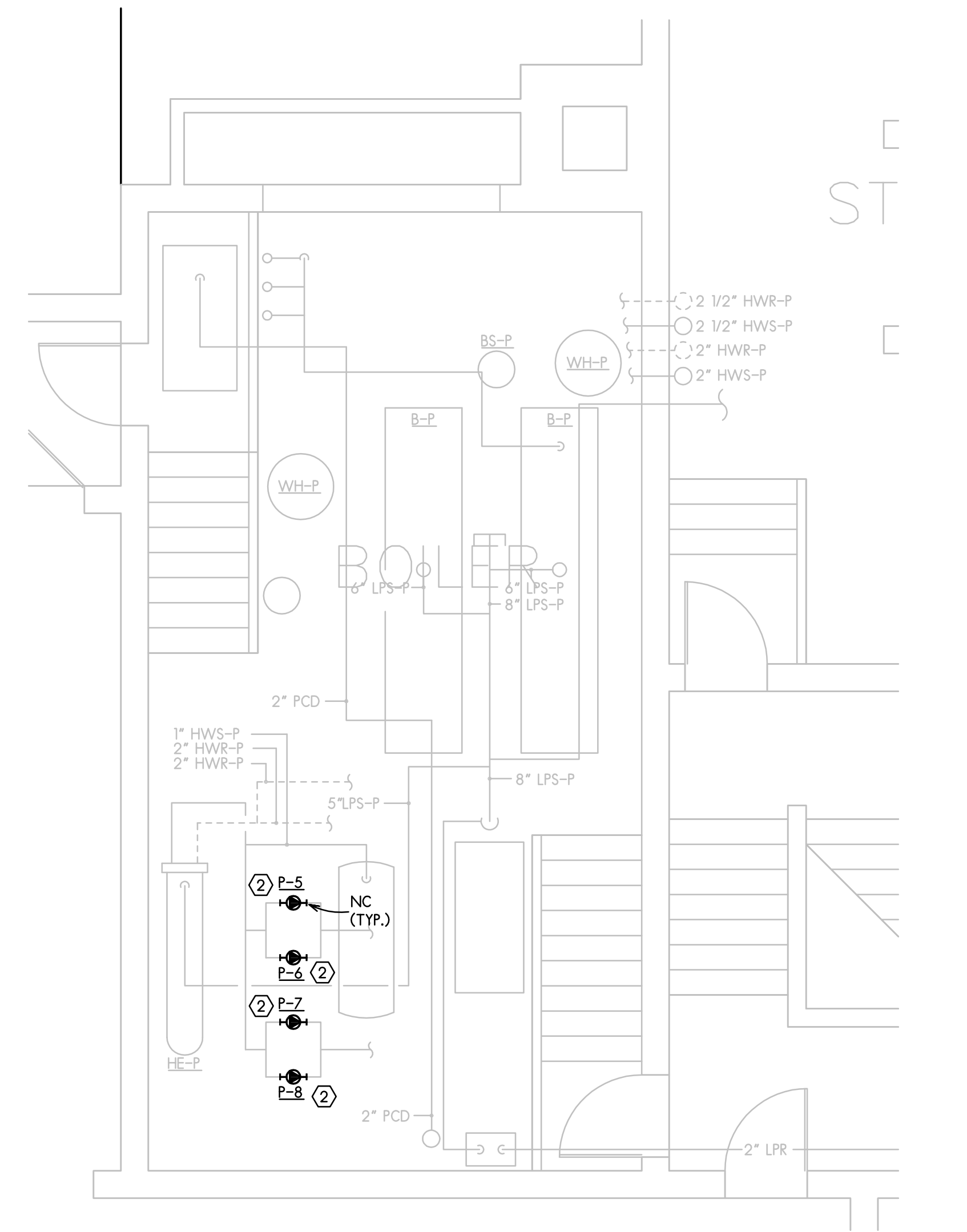
RIVERDAHL ELEM. SCHOOL HVAC SYSTEM UPGRADES
RPS DISTRICT 205 - PROJECT #2243 - IFB #22-22
3520 KISHWAUKEE ST, ROCKFORD, IL 61109



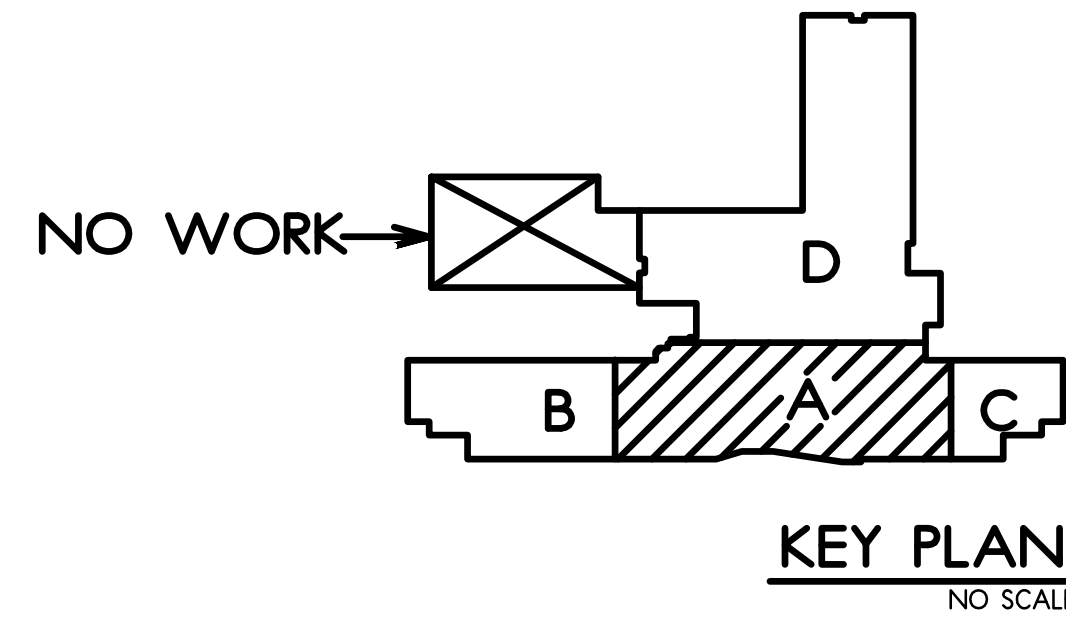
1 MECH. BASEMENT NEW WORK PLAN
SCALE: 1/8" = 1'-0"

MECH KEYED NOTES

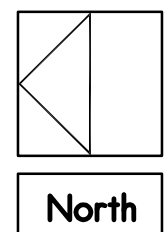
- 1 REFER TO HOT WATER HEATING COIL PIPING DETAIL ON SHEET M2.2 FOR MORE PIPING INFO.
- 2 PROVIDE & INSTALL NEW PUMP IN PLACE OF REMOVED PUMP. MODIFY PIPING AS REQUIRED TO INSTALL NEW PUMP PER IN-LINE PUMP DETAIL.
- 3 3/4" HWS & HWR IN PIPE CHASE FROM FLOOR ABOVE.
- 4 4" STEAM SUPPLY AND 1-1/4" CONDENSATE RETURN FROM MECH. ROOM ABOVE DOWN IN CHASE TO BOILER ROOM IN FLOOR BELOW.



2 ENLARGED MECHANICAL ROOM NEW WORK PLAN
SCALE: 1/4" = 1'-0"

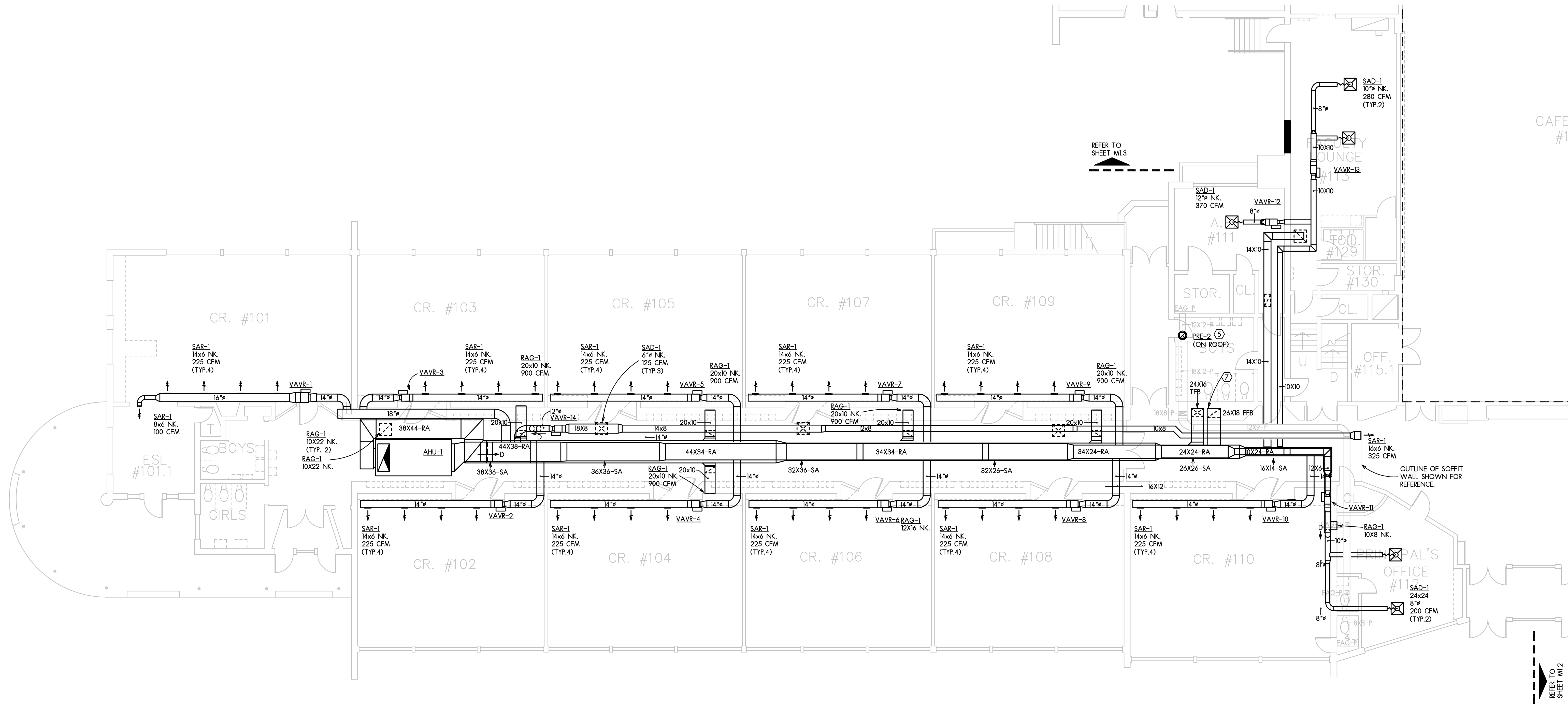


MECH NEW WORK PLANS
SCALE: AS SHOWN



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			RAS

DATE: 01-21-2022	PROJECT NUMBER	SHEET NUMBER	M0.2
31029-02			



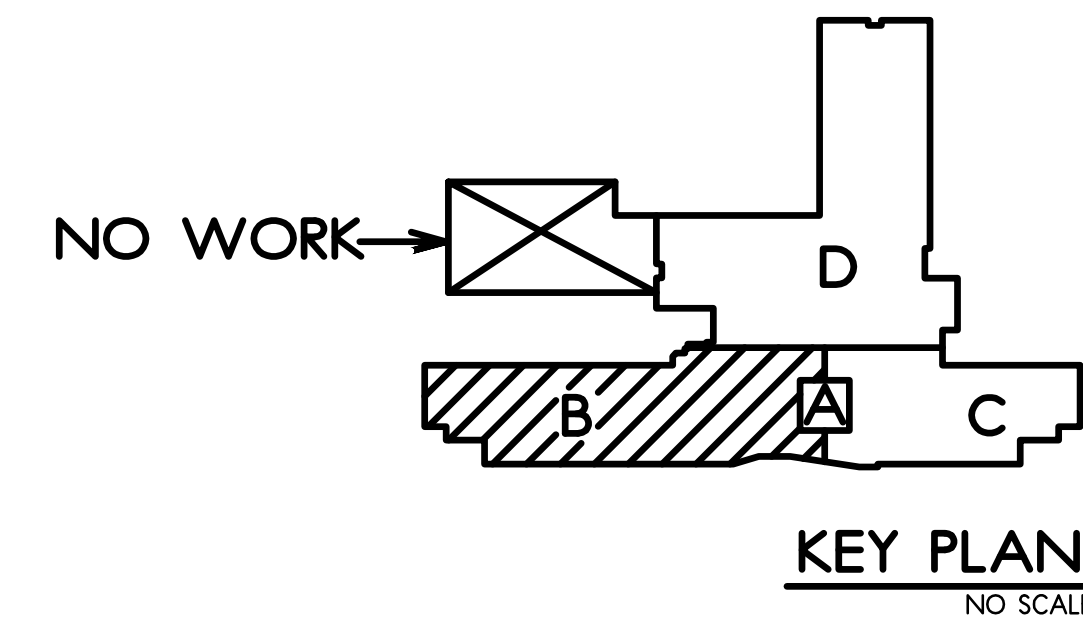
1 HVAC AREA B NEW WORK PLAN
SCALE: 1/8" = 1'-0"

HVAC KEYED NOTES

- 1 PROVIDE & INSTALL BALANCING DAMPER IN DUCT CONNECTION TO SUPPLY REGISTER.
- 2 CUT ROUND OPENING IN EXISTING CURTAIN TO RUN SUPPLY DUCT AS SHOWN. OPENING SHALL BE 2" LARGER THAN DUCT SIZE AND SHALL ALLOW CURTAIN MOVEMENT WITHOUT RESTRICTION.
- 3 EXPOSED DUCTWORK IN CAFETERIA SHALL BE PAINTED WHITE OR COLOR SELECTED BY ARCHITECT.
- 4 30x48 OA DUCT UP THROUGH ROOF TO OAI-L
- 5 PROVIDE & INSTALL NEW EXHAUST FAN ON ROOF TO REPLACE EXISTING FAN. EXISTING CURB SHALL REMAIN. PROVIDE CURB ADAPTER AS NEEDED.
- 6 PROVIDE & INSTALL NEW EXHAUST FAN IN PLACE OF REMOVED FAN. PROVIDE NEW DUCT ADAPTER AS NEEDED TO CONNECT WITH EXISTING EA DUCT AS SHOWN.
- 7 DROP SUPPLY/RETURN AIR DUCTWORK IN EXISTING PIPE CHASE. FIELD VERIFY EXACT CONDITION AND RE-SIZE DUCT AS NEEDED TO FIT IN EXISTING SPACE. MAINTAIN DUCT CROSS SECTIONAL AREA.

GENERAL CONSTRUCTION NOTES

1. ALL EXPOSED SHEET METAL DUCTWORK SHALL BE EITHER PAINTED AS INDICATED OR PRIMED AND PREPARED TO BE FIELD PAINTED.



HVAC NEW WORK PLANS
SCALE: 1/8" = 1'-0"

DATE: 01-21-2022
PROJECT NUMBER
31029-02
SHEET NUMBER
M1.1

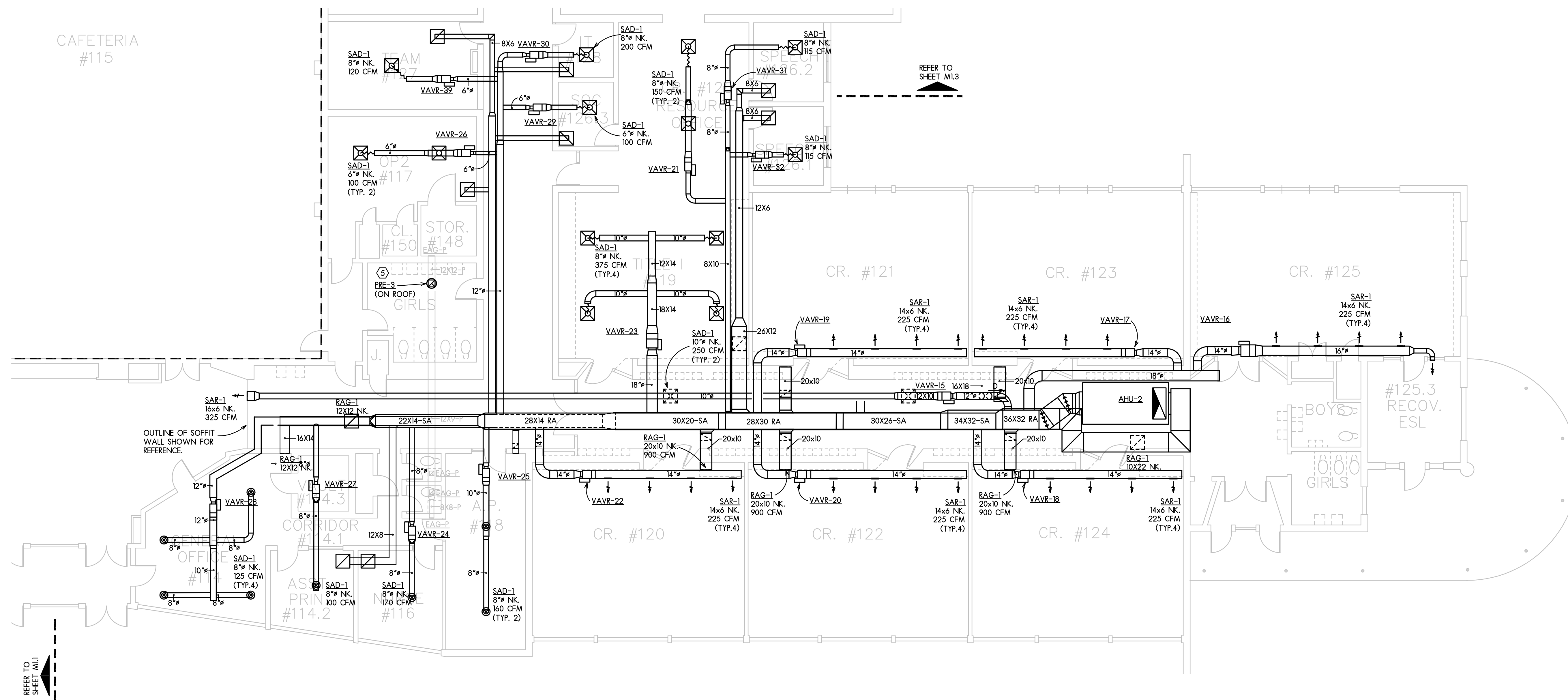
ISSUED FOR: BIDDING
ISSUED FOR: 01-21-22
CHECKED BY: APPROVED BY: RAS
DRAWN BY: JJ

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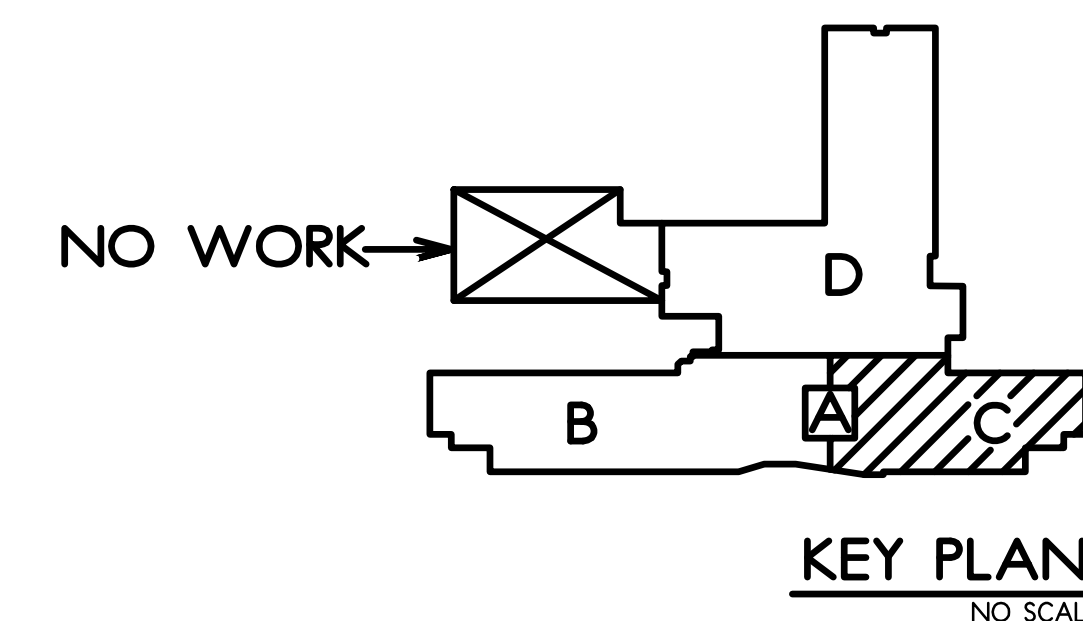
1 HVAC AREA C NEW WORK PLAN
SCALE: 1/8" = 1'-0"

HVAC KEYED NOTES

- ① PROVIDE & INSTALL BALANCING DAMPER IN DUCT CONNECTION TO SUPPLY REGISTER.
- ② CUT ROUND OPENING IN EXISTING CURTAIN TO RUN SUPPLY DUCT AS SHOWN. OPENING SHALL BE 2" LARGER THAN DUCT SIZE AND SHALL ALLOW CURTAIN MOVEMENT WITHOUT RESTRICTION.
- ③ EXPOSED DUCTWORK IN CAFETERIA SHALL BE PAINTED WHITE OR COLOR SELECTED BY ARCHITECT.
- ④ 30x48 OA DUCT UP THROUGH ROOF TO OAH-1.
- ⑤ PROVIDE & INSTALL NEW EXHAUST FAN ON ROOF TO REPLACE EXISTING FAN. EXISTING CURB SHALL REMAIN. PROVIDE CURB ADAPTER AS NEEDED.
- ⑥ PROVIDE & INSTALL NEW EXHAUST FAN IN PLACE OF REMOVED FAN. PROVIDE NEW DUCT ADAPTER AS NEEDED TO CONNECT WITH EXISTING EA DUCT AS SHOWN.
- ⑦ DROP SUPPLY/RETURN AIR DUCTWORK IN EXISTING PIPE CHASE. FIELD VERIFY EXACT CONDITION AND RE-SIZE DUCT AS NEEDED TO FIT IN EXISTING SPACE. MAINTAIN DUCT CROSS SECTIONAL AREA.

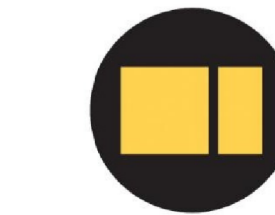
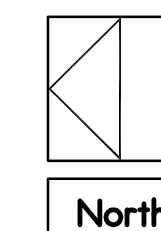
GENERAL CONSTRUCTION NOTES

1. ALL EXPOSED SHEET METAL DUCTWORK SHALL BE EITHER PAINTED AS INDICATED OR PRIMED AND PREPARED TO BE FIELD PAINTED.



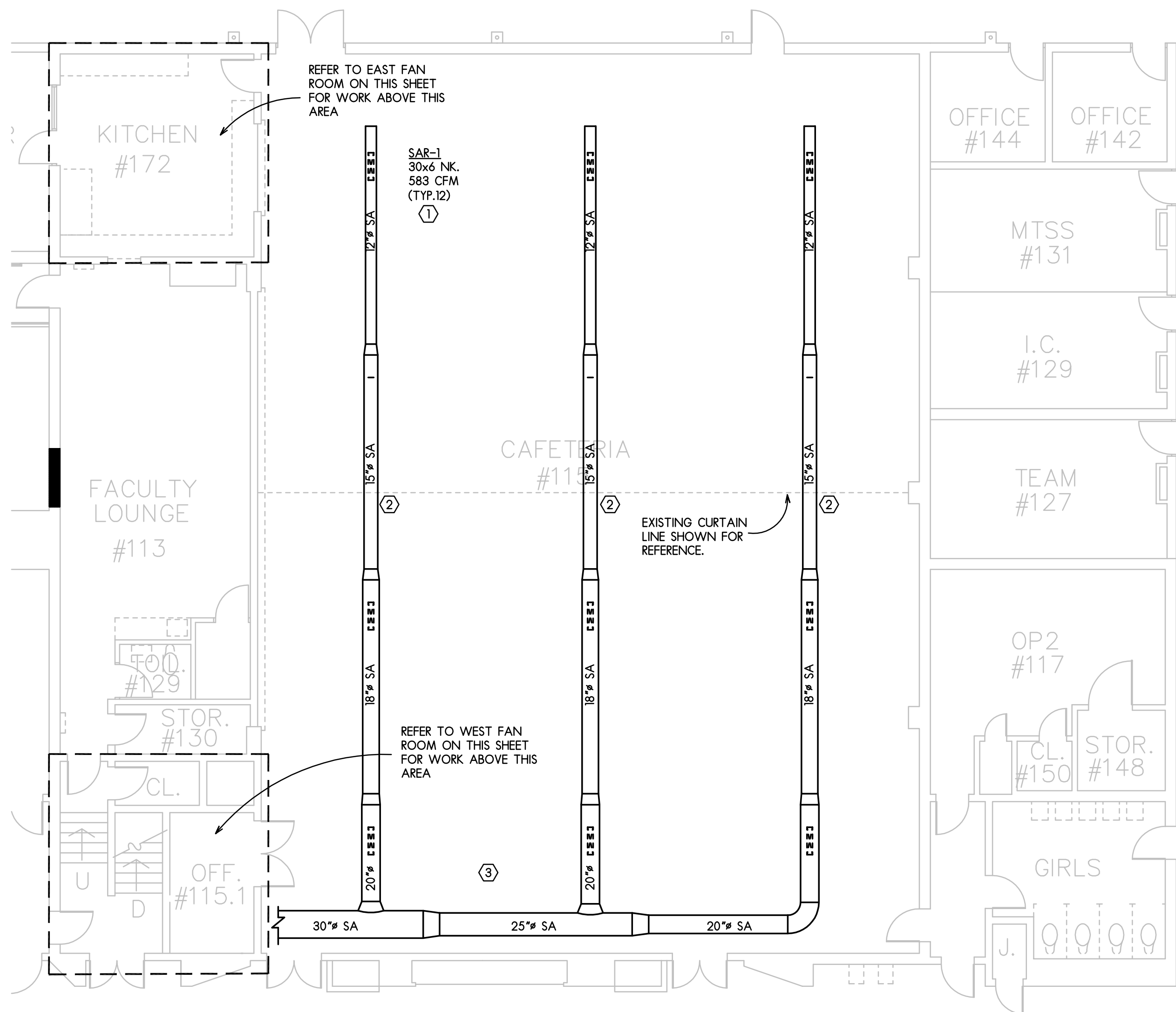
HVAC NEW WORK PLANS

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

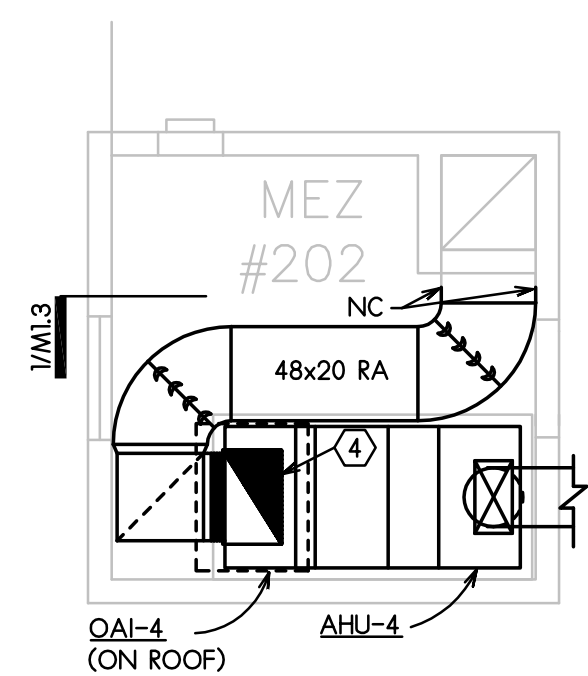


ISSUED FOR:	01-21-22	ISSUED FOR:	BIDDING
DRAWN BY:	JJ	CHECKED BY:	APPROVED BY:
			RAS

DATE: 01-21-2022	PROJECT NUMBER
31029-02	
SHEET NUMBER	M1.2



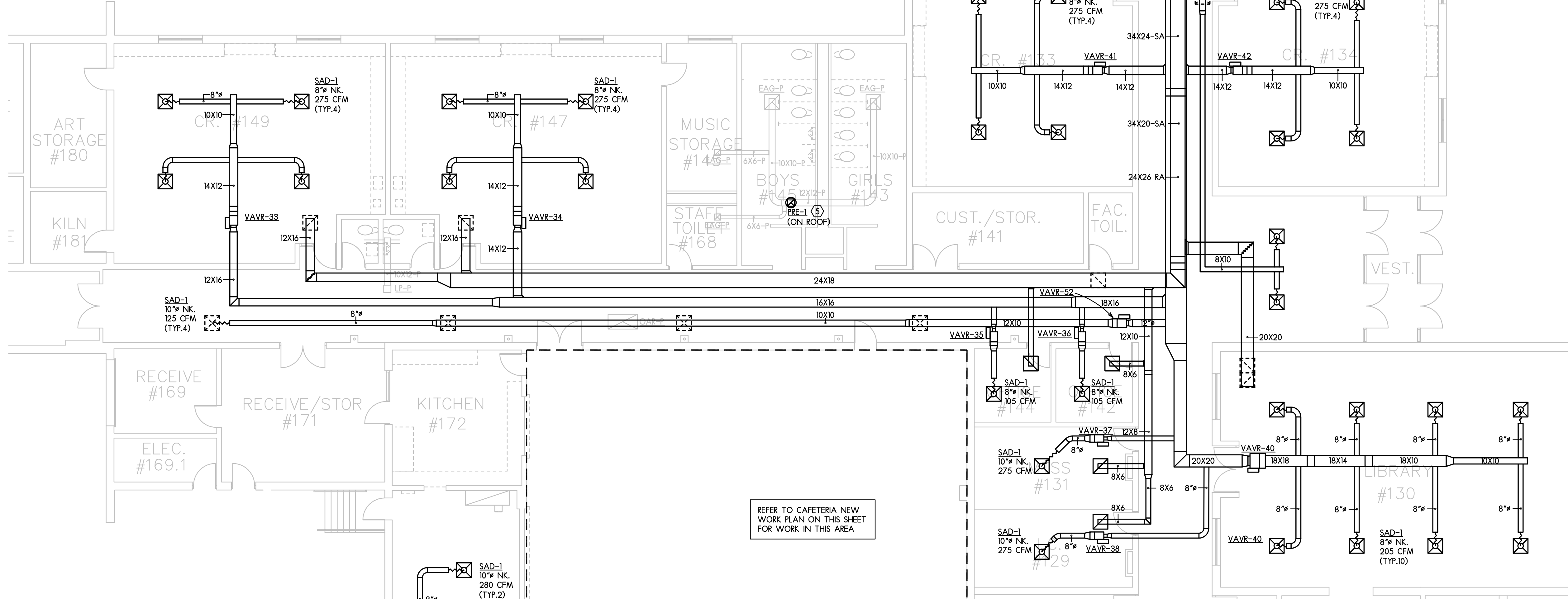
2 CAFETERIA #115 NEW WORK PLAN
SCALE: 1/8" = 1'-0"



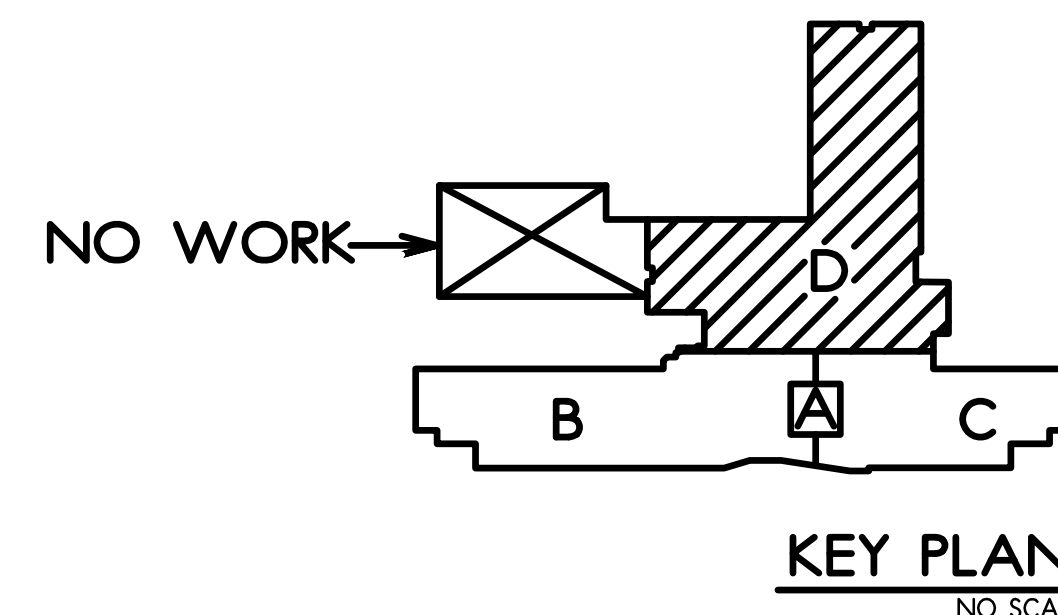
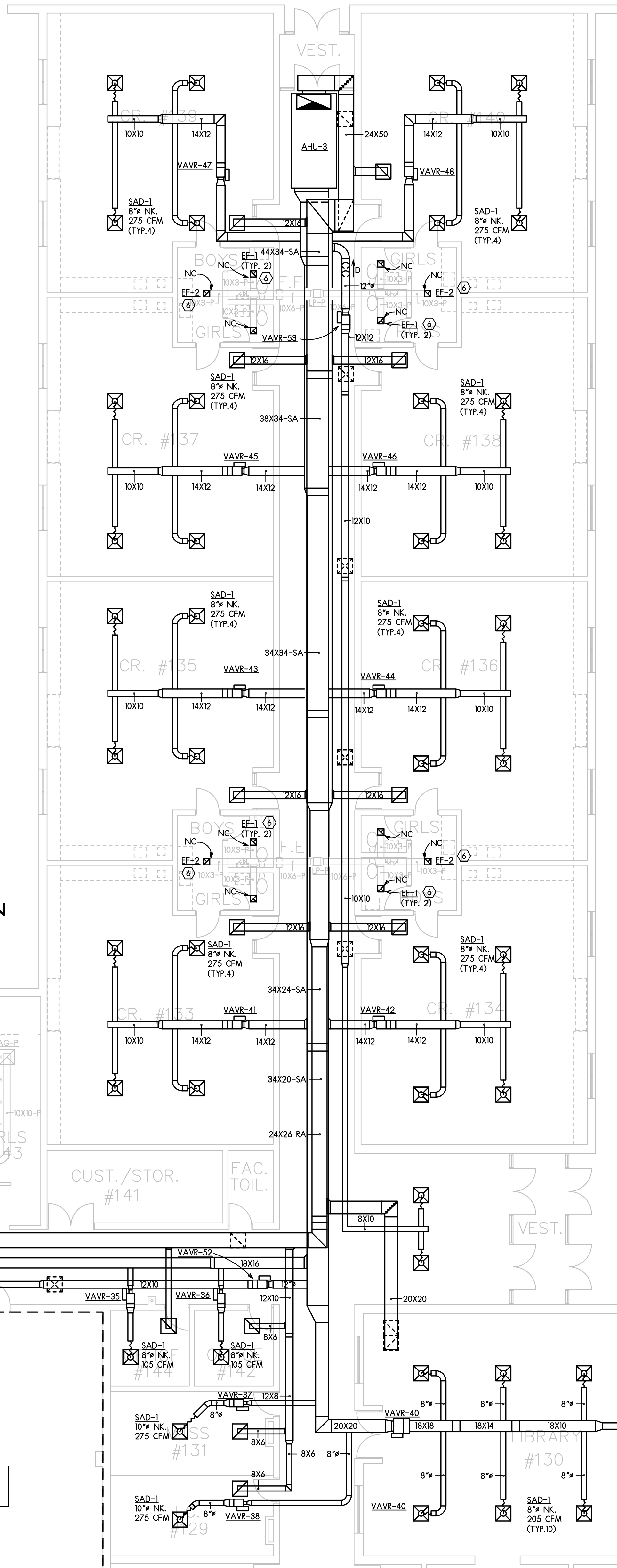
4 WEST FAN ROOM NEW WORK PLAN
SCALE: 1/8" = 1'-0"



3 EAST FAN ROOM NEW WORK PLAN
SCALE: 1/8" = 1'-0"



1 FIRST FLOOR AREA D NEW WORK PLAN
SCALE: 1/8" = 1'-0"



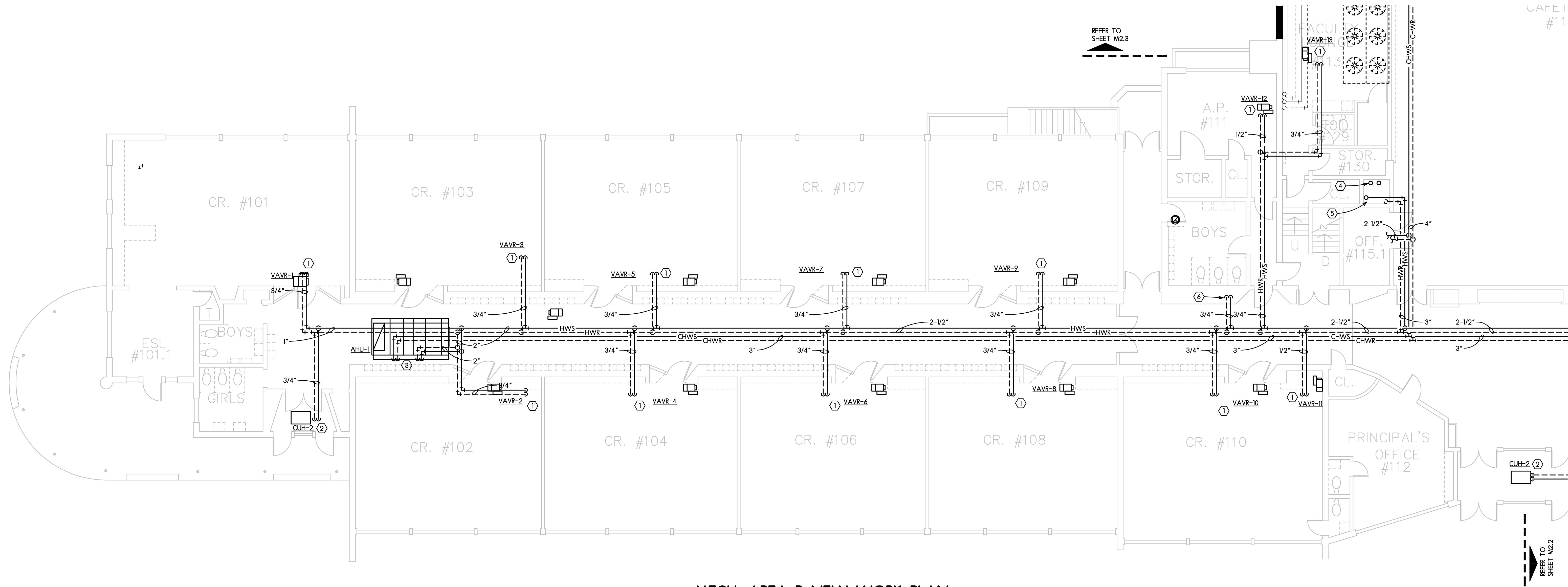
HVAC NEW WORK PLANS
SCALE: 1/8" = 1'-0"

GENERAL CONSTRUCTION NOTES

- ALL EXPOSED SHEET METAL DUCTWORK SHALL BE EITHER PAINTED AS INDICATED OR PRIMED AND PREPARED TO BE FIELD PAINTED.

HVAC KEYED NOTES

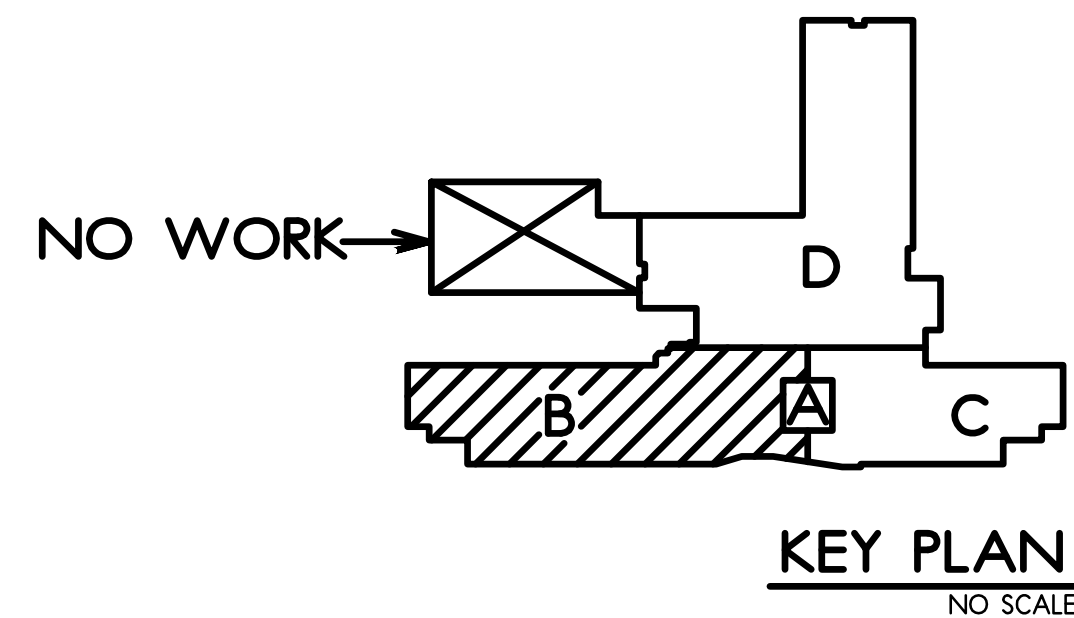
- PROVIDE & INSTALL BALANCING DAMPER IN DUCT CONNECTION TO SUPPLY REGISTER.
- CUT ROUND OPENING IN EXISTING CURTAIN TO RUN SUPPLY DUCT AS SHOWN. OPENING SHALL BE 2" LARGER THAN DUCT SIZE AND SHALL ALLOW CURTAIN MOVEMENT WITHOUT RESTRICTION.
- EXPOSED DUCTWORK IN CAFETERIA SHALL BE PAINTED WHITE OR COLOR SELECTED BY ARCHITECT.
- 30x48 OA DUCT UP THROUGH ROOF TO OAI-L.
- PROVIDE & INSTALL NEW EXHAUST FAN ON ROOF TO REPLACE EXISTING FAN. EXISTING CURB SHALL REMAIN. PROVIDE CURB ADAPTER AS NEEDED.
- PROVIDE & INSTALL NEW EXHAUST FAN IN PLACE OF REMOVED FAN. PROVIDE NEW DUCT ADAPTER AS NEEDED TO CONNECT WITH EXISTING EA DUCT AS SHOWN.
- DROP SUPPLY/RETURN AIR DUCTWORK IN EXISTING PIPE CHASE. FIELD VERIFY EXACT CONDITION AND RE-SIZE DUCT AS NEEDED TO FIT IN EXISTING SPACE. MAINTAIN DUCT CROSS SECTIONAL AREA.



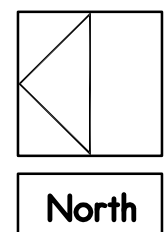
1 MECH. AREA B NEW WORK PLAN
SCALE: 1/8" = 1'-0"

MECH KEYED NOTES

- 1 REFER TO HOT WATER HEATING COIL PIPING DETAIL ON SHEET M2.2 FOR MORE PIPING INFO.
- 2 REFER TO HORIZONTAL CABINET UNIT HEATER (CUH) PIPING DETAIL ON SHEET M2.2 FOR MORE PIPING INFO.
- 3 REFER TO AHU HEATING & COOLING COIL PIPING DETAILS ON SHEET M2.2 FOR MORE PIPING INFO.
- 4 4" STEAM SUPPLY AND 1-1/4" CONDENSATE RETURN FROM MECH. ROOM ABOVE DOWN IN CHASE TO BOILER ROOM IN FLOOR BELOW.
- 5 3" HWS & HWR UP IN CHASE TO MECH. ROOM ABOVE.
- 6 3/4" HWS & HWR DOWN IN PIPE CHASE TO BASEMENT FLOOR.

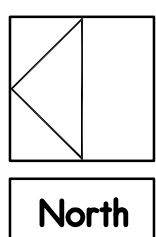
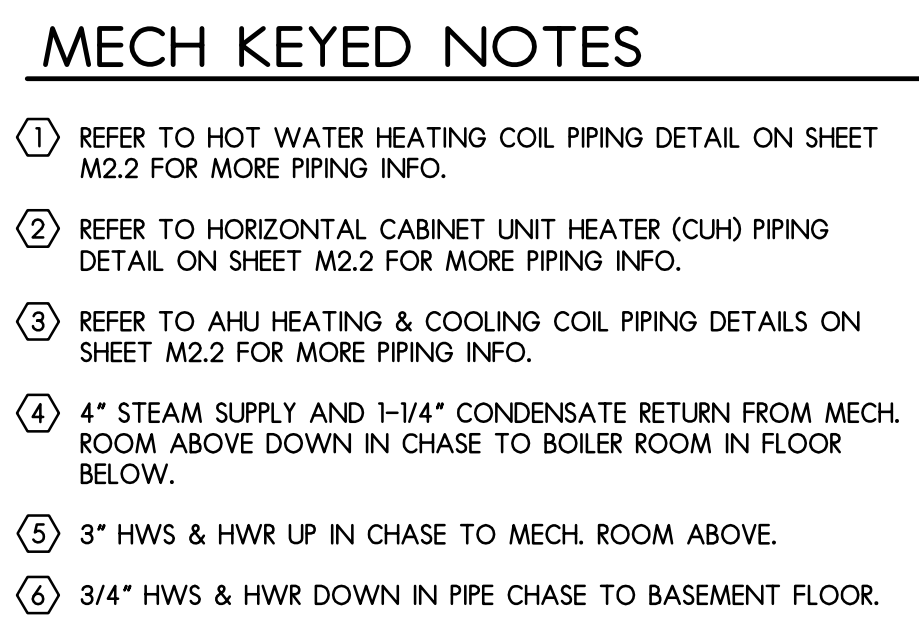


MECH. NEW WORK PLANS
SCALE: 1/8" = 1'-0"



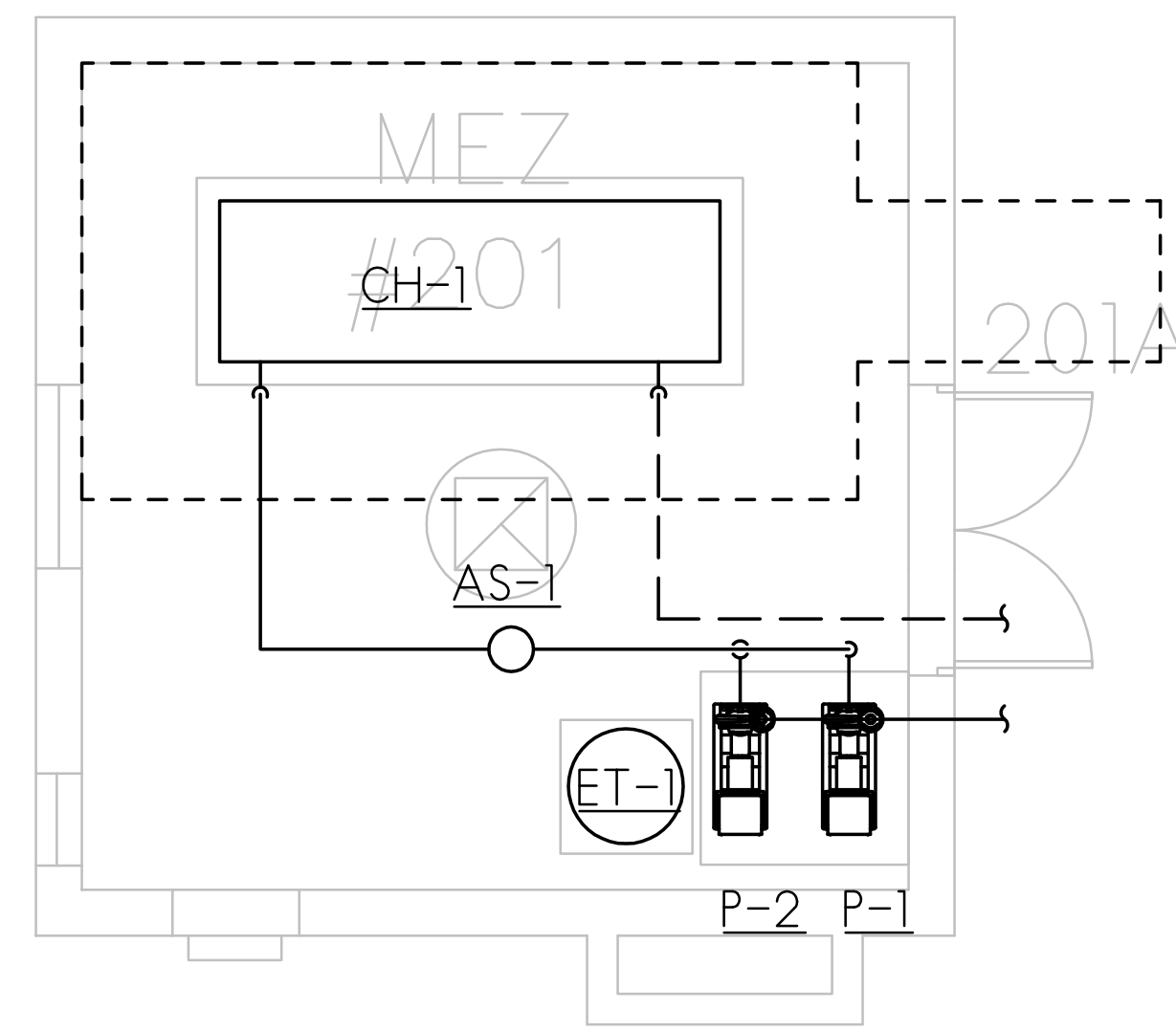
ISSUED FOR:	01-21-22	ISSUED FOR:	BIDDING
DRAWN BY:	JJ	CHECKED BY:	RAS
APPROVED BY:			

DATE: 01-21-2022	PROJECT NUMBER
31029-02	
SHEET NUMBER	M2.1

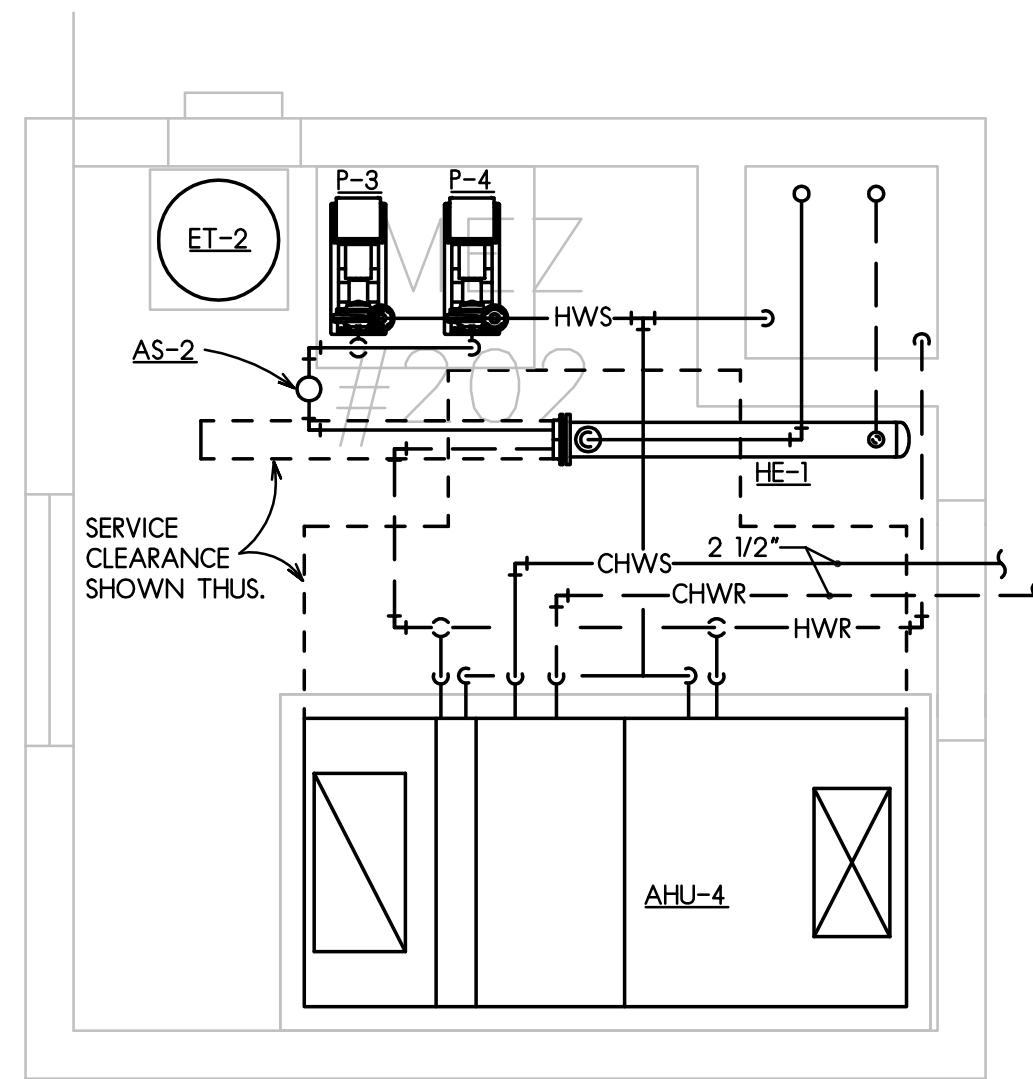


ISSUED FOR:	01-21-22	ISSUED FOR:	BIDDING
DRAWN BY:	CHECKED BY:	APPROVED BY:	
JJ		RAS	

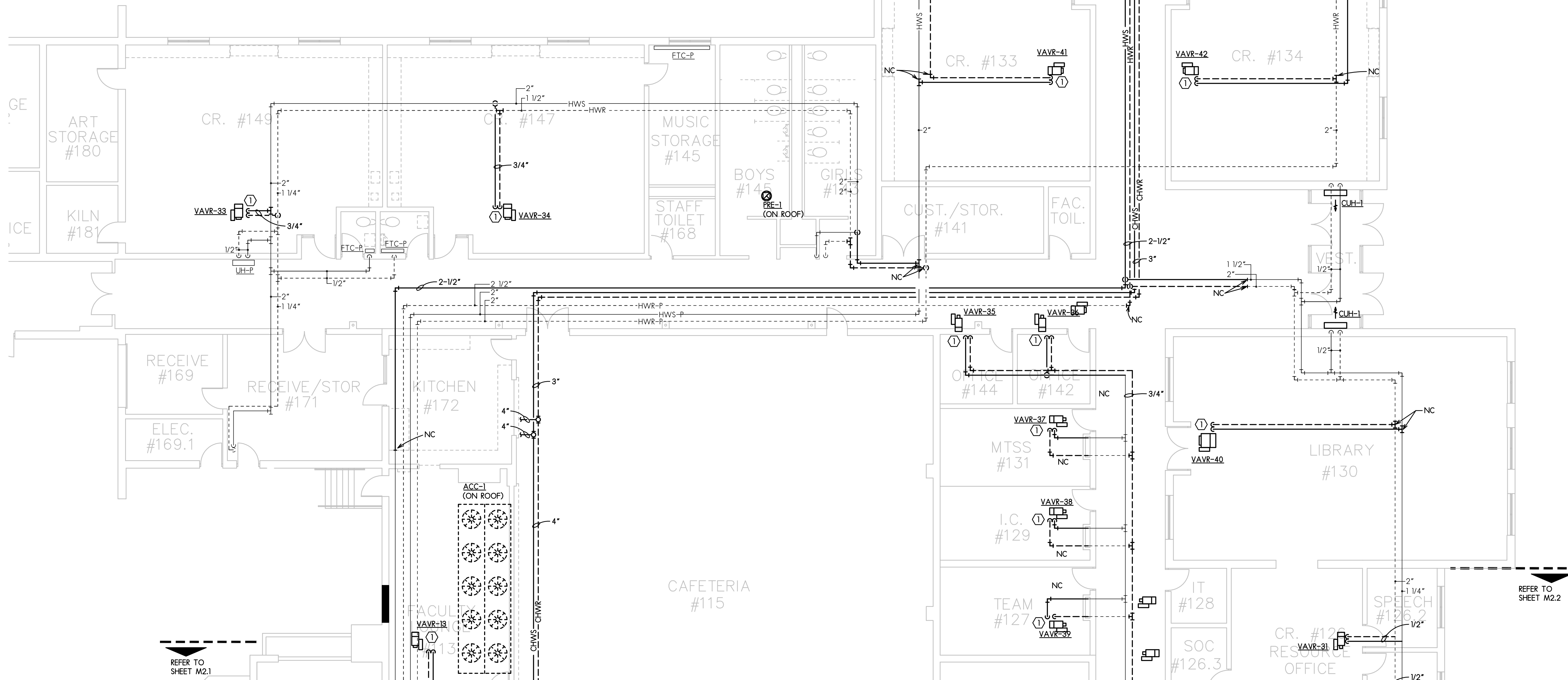
DATE: 01-21-2022
PROJECT NUMBER
31029-02
SHEET NUMBER
M2.2



2 EAST FAN ROOM NEW WORK PLAN
SCALE: 1/4" = 1'-0"



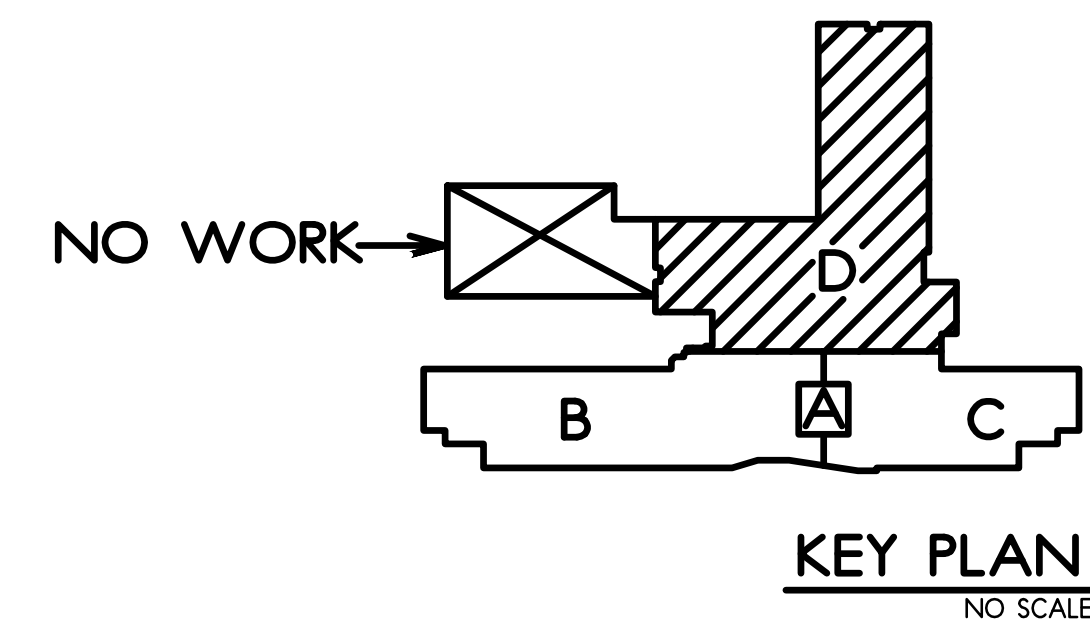
3 WEST FAN ROOM NEW WORK PLAN
SCALE: 1/4" = 1'-0"



1 MECH. AREA D NEW WORK PLAN
SCALE: 1/8" = 1'-0"

MECH KEYED NOTES

- 1 REFER TO HOT WATER HEATING COIL PIPING DETAIL ON SHEET M2.2 FOR MORE PIPING INFO.
- 2 REFER TO HORIZONTAL CABINET UNIT HEATER (CUH) PIPING DETAIL ON SHEET M2.2 FOR MORE PIPING INFO.
- 3 REFER TO AHU HEATING & COOLING COIL PIPING DETAILS ON SHEET M2.2 FOR MORE PIPING INFO.
- 4 4" STEAM SUPPLY AND 1-1/4" CONDENSATE RETURN FROM MECH. ROOM ABOVE DOWN IN CHASE TO BOILER ROOM IN FLOOR BELOW.
- 5 3" HWS & HWR UP IN CHASE TO MECH. ROOM ABOVE.
- 6 3/4" HWS & HWR DOWN IN PIPE CHASE TO BASEMENT FLOOR.

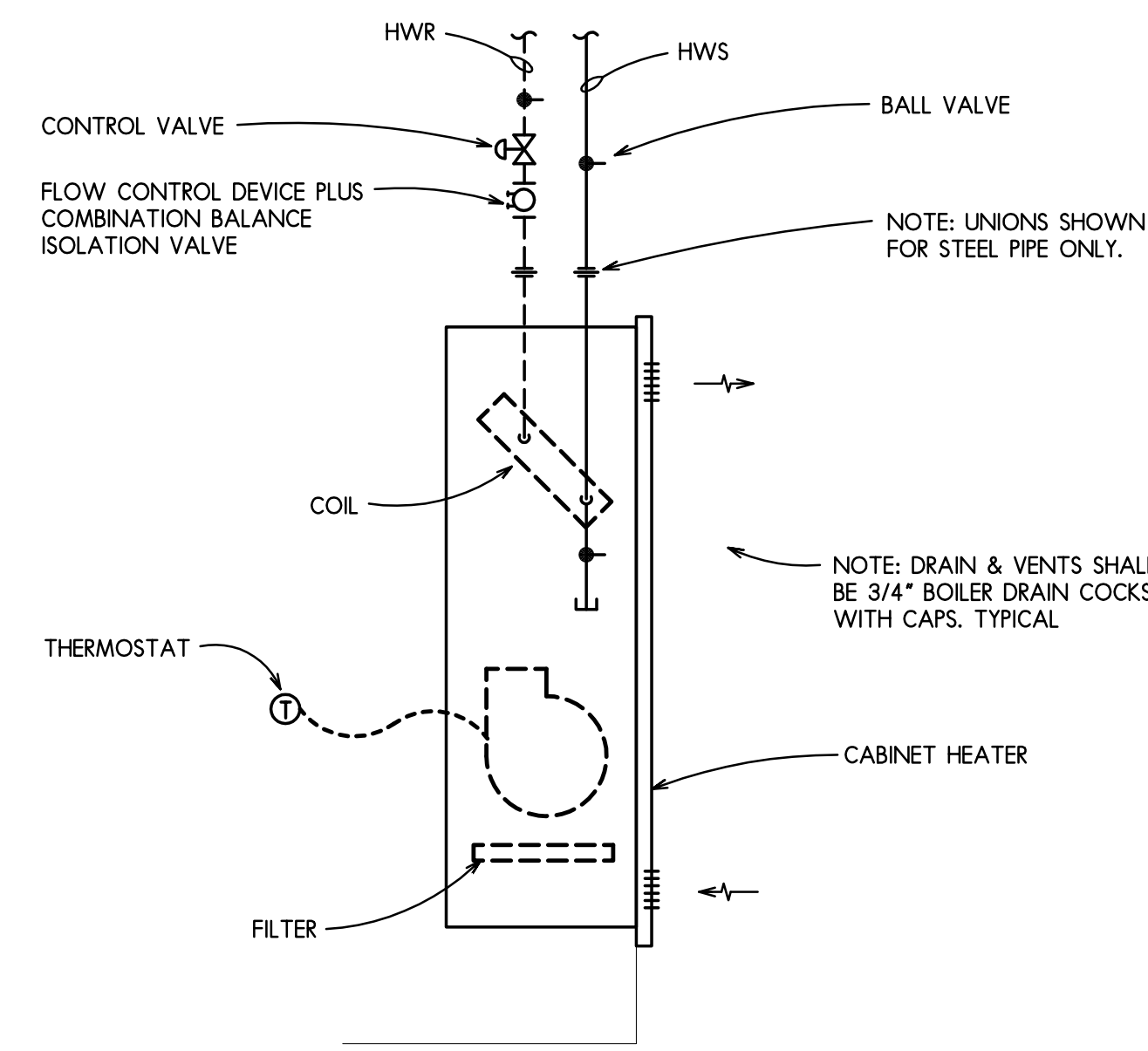


MECH. NEW WORK PLANS

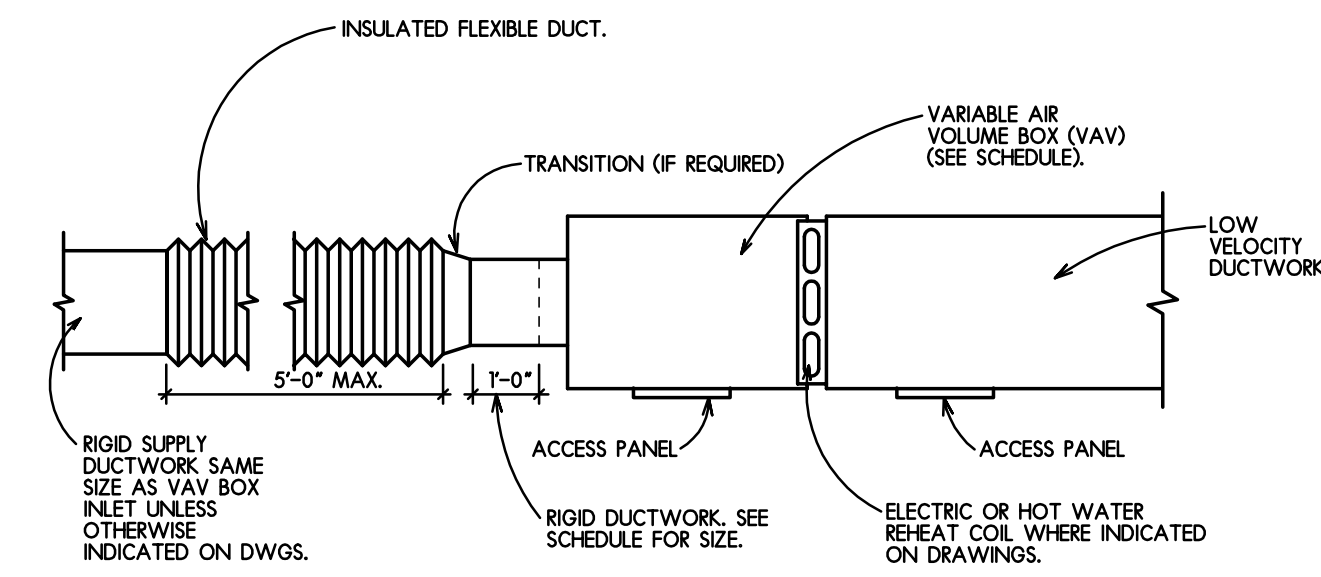
SCALE: 1/8" = 1'-0"

ISSUED FOR:	01-21-22	ISSUED FOR:	01-21-22
BIDDING		BIDDING	
DRAWN BY:	JJ	CHECKED BY:	JJ
APPROVED BY:	RAS	APPROVED BY:	RAS

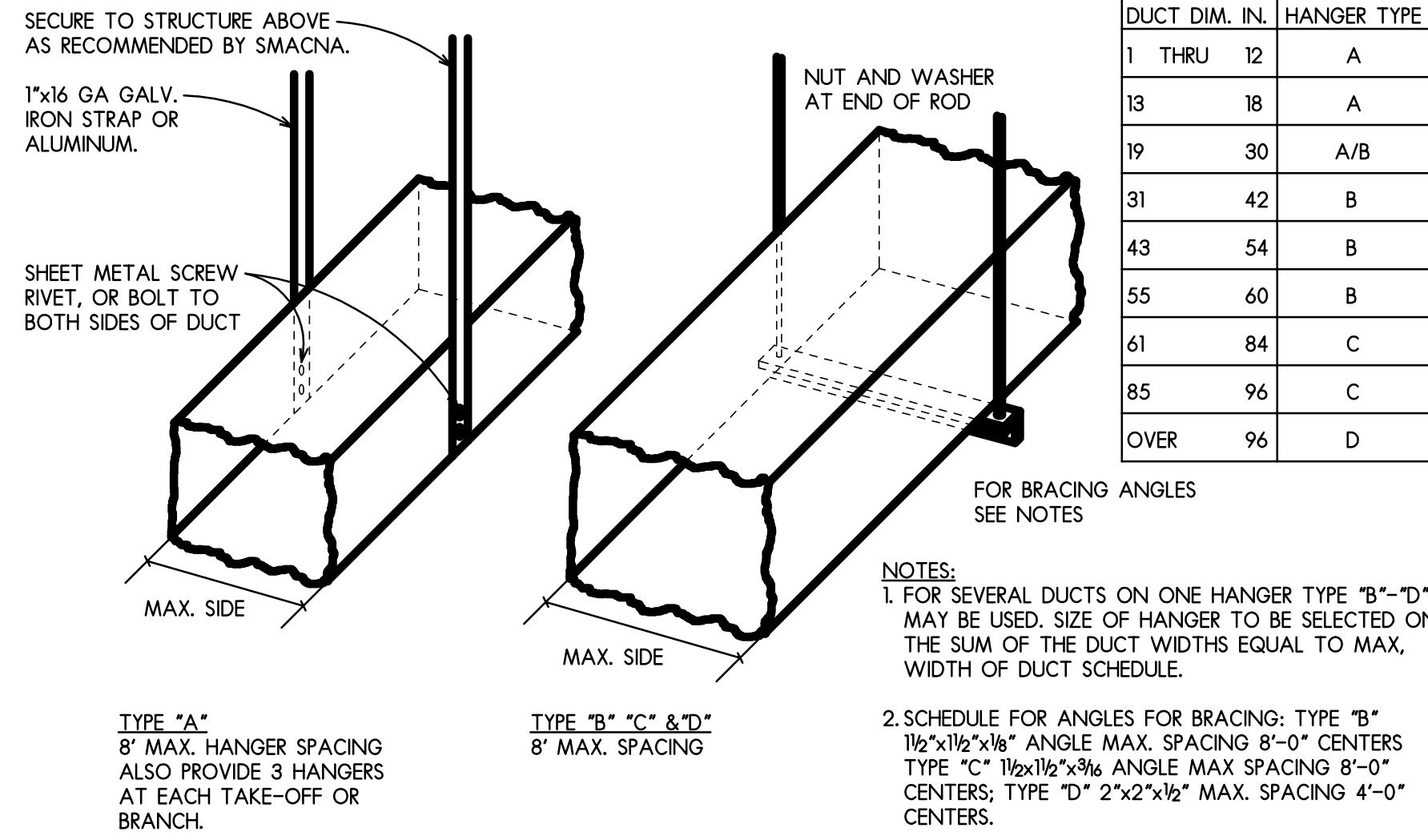
DATE: 01-21-2022	PROJECT NUMBER	SHEET NUMBER	M2.3
31029-02			



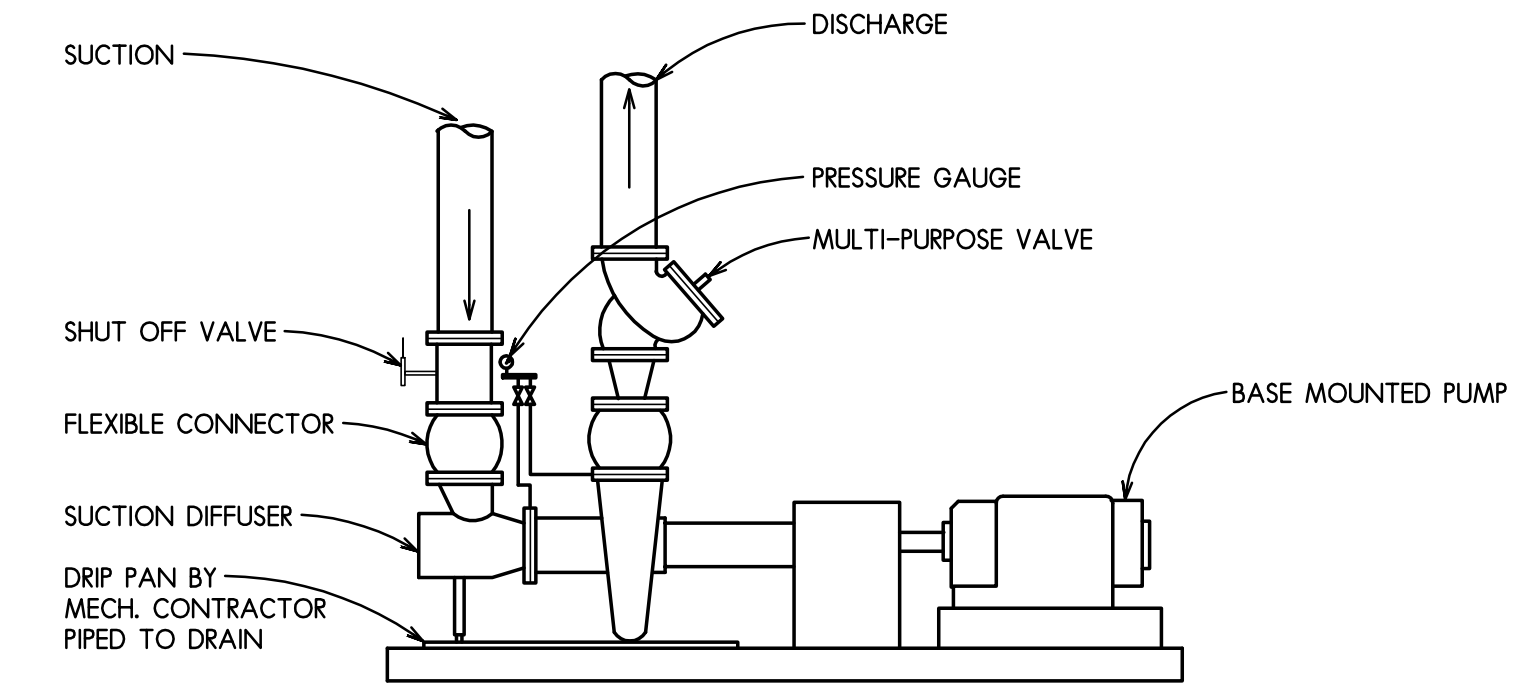
1 VERTICAL CABINET HEATER PIPING
NTS



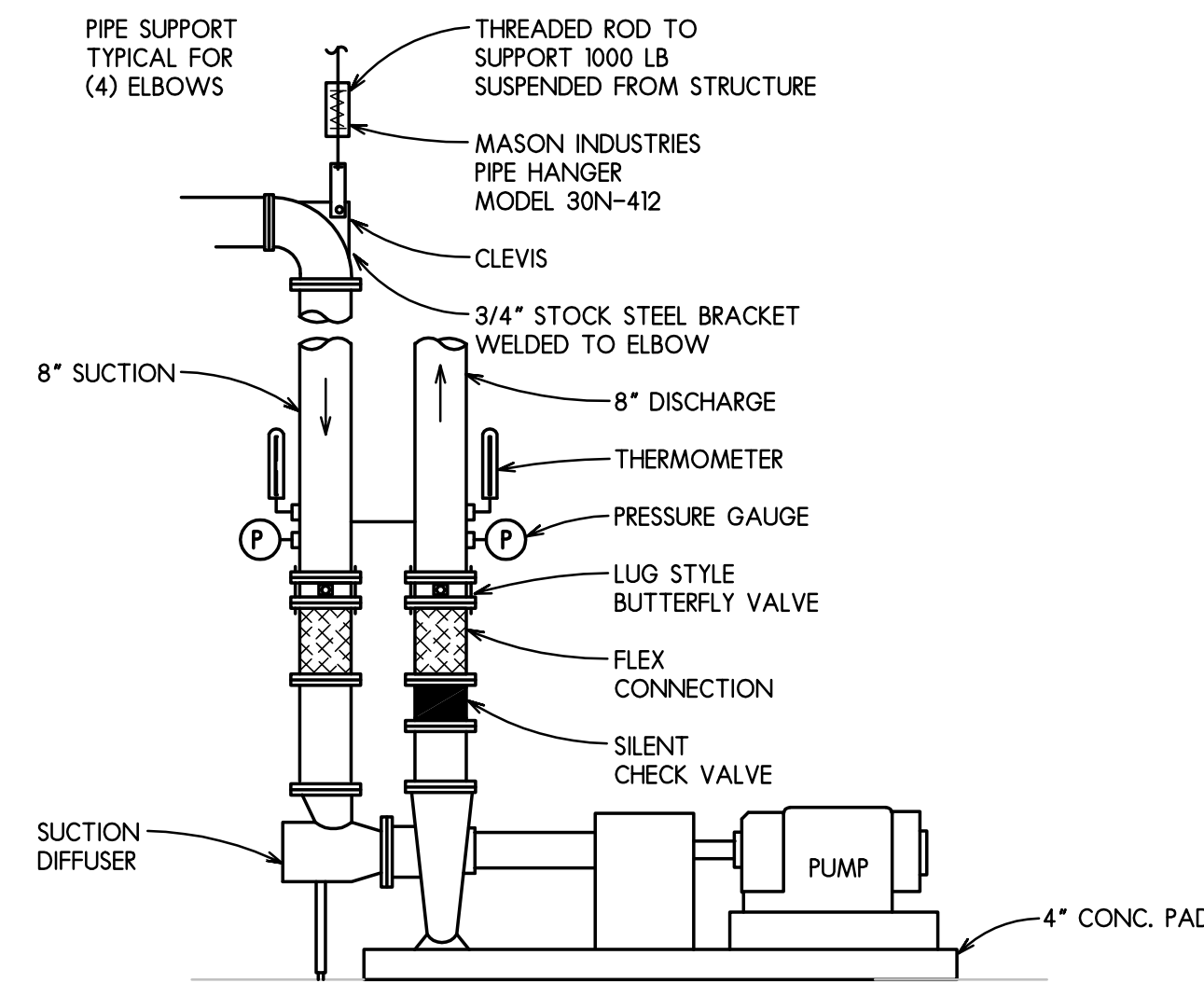
2 VARIABLE AIR VOLUME BOX DETAIL
NTS



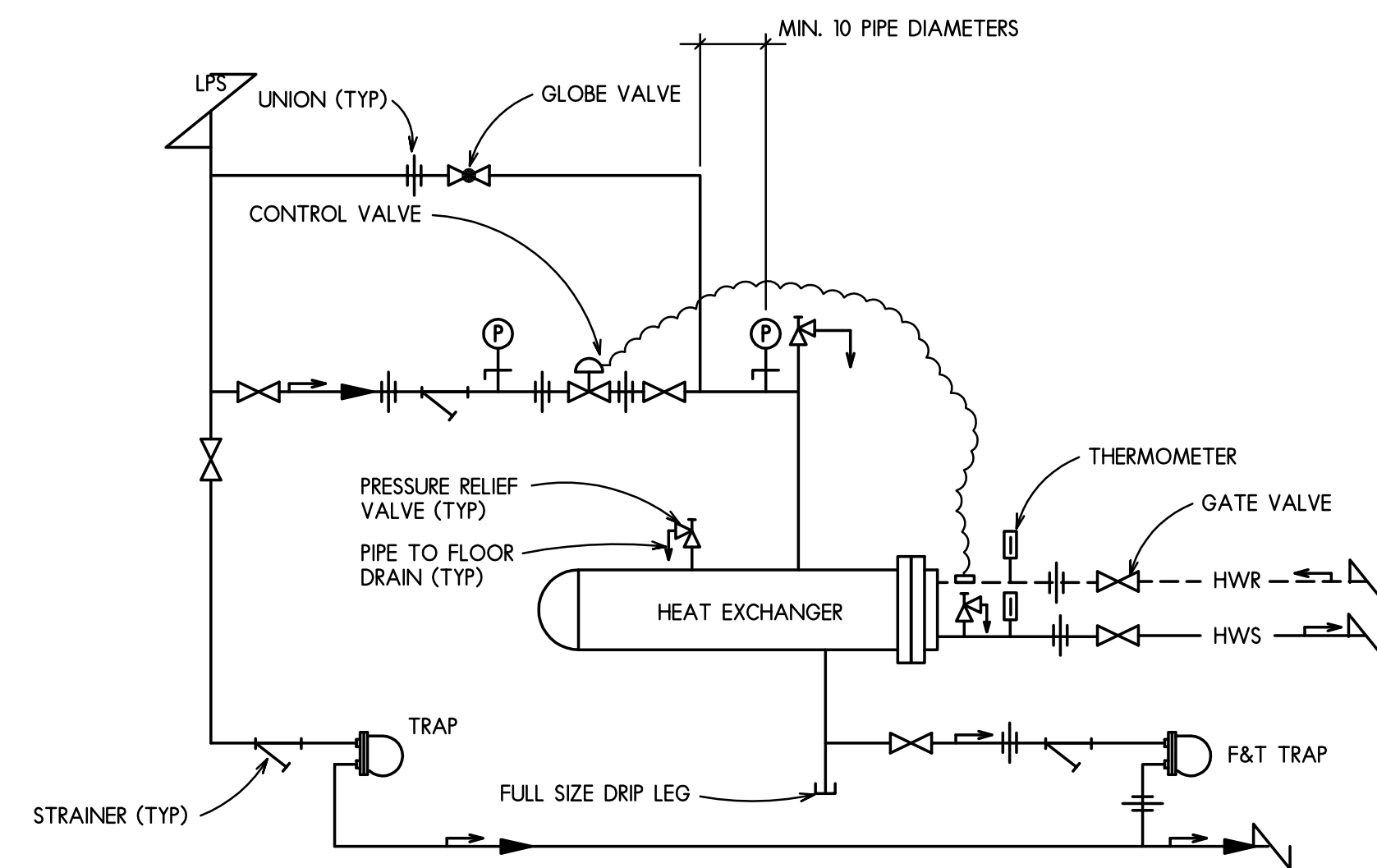
3 DUCT HANGERS DETAIL WITH SCHEDULE
NTS



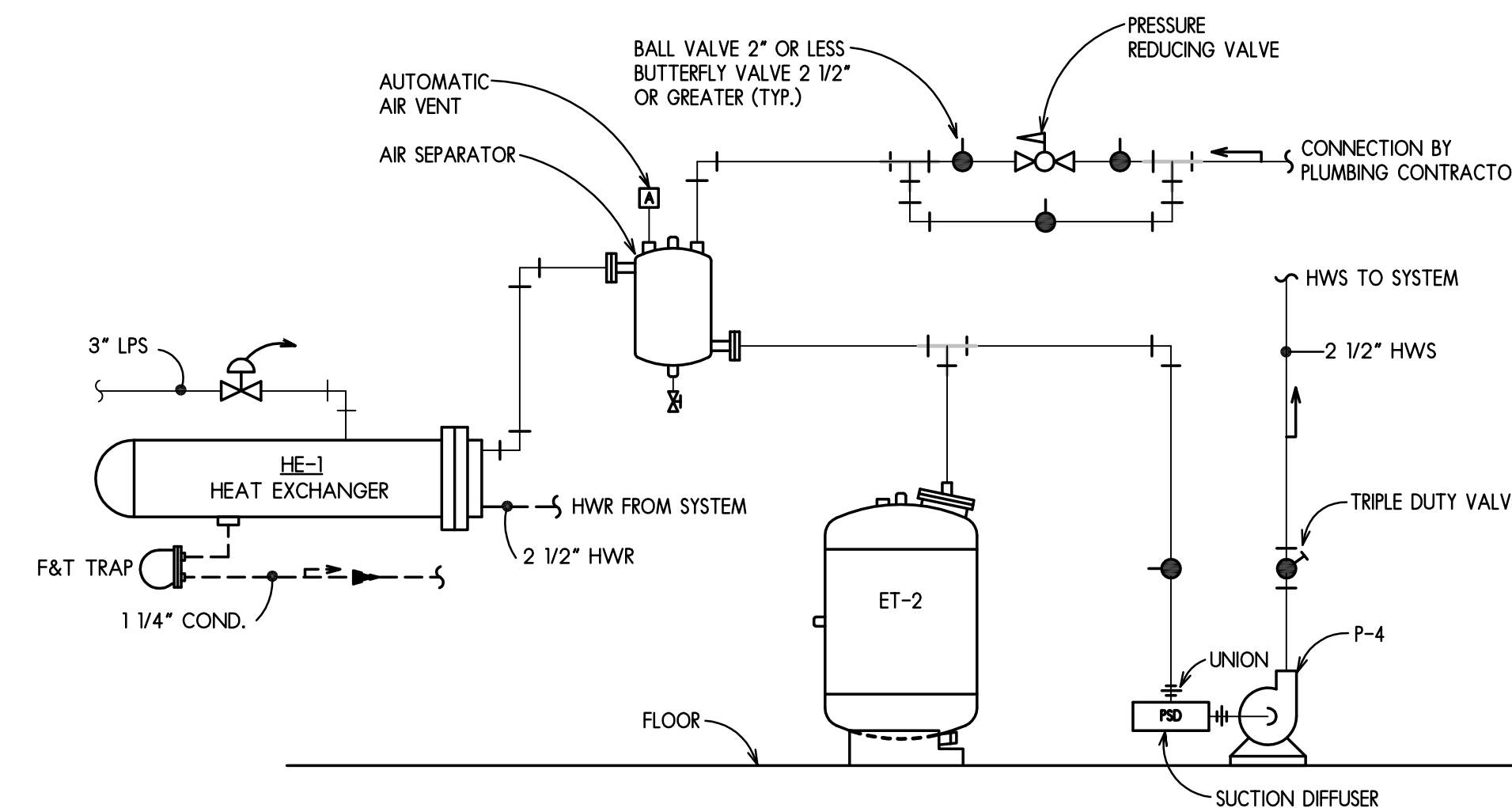
4 BASE MOUNTED PUMP DETAIL
NTS



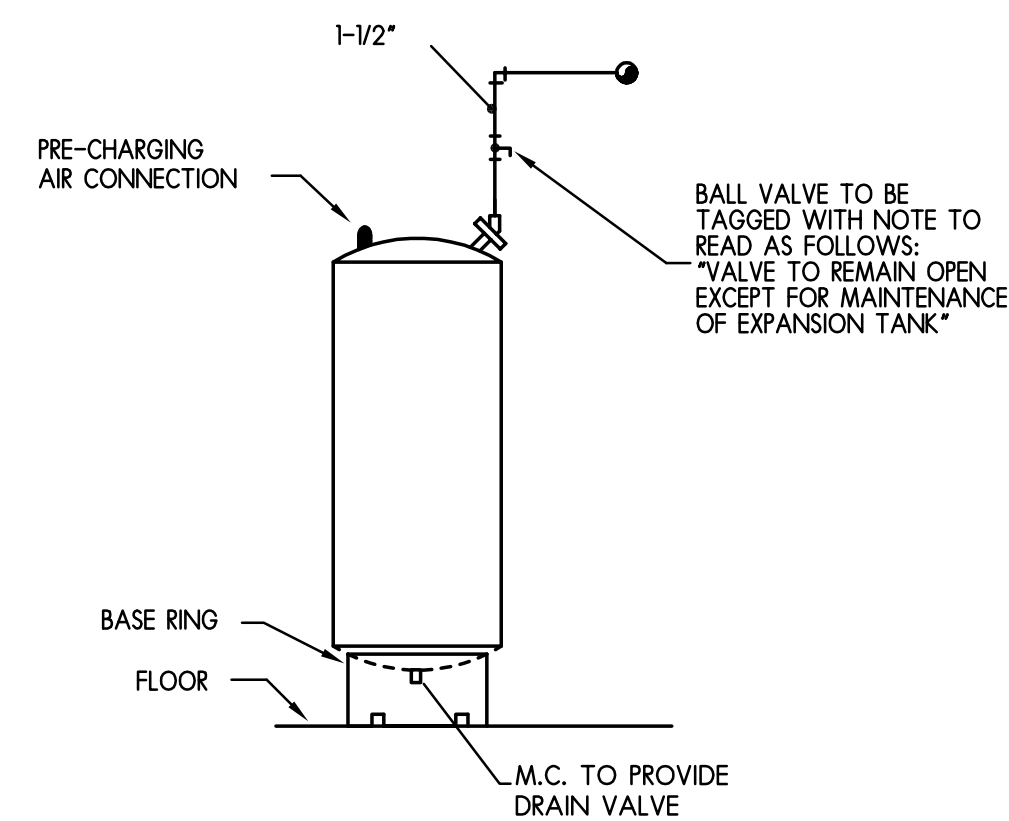
5 CHILLED WATER PUMP DETAIL
NTS



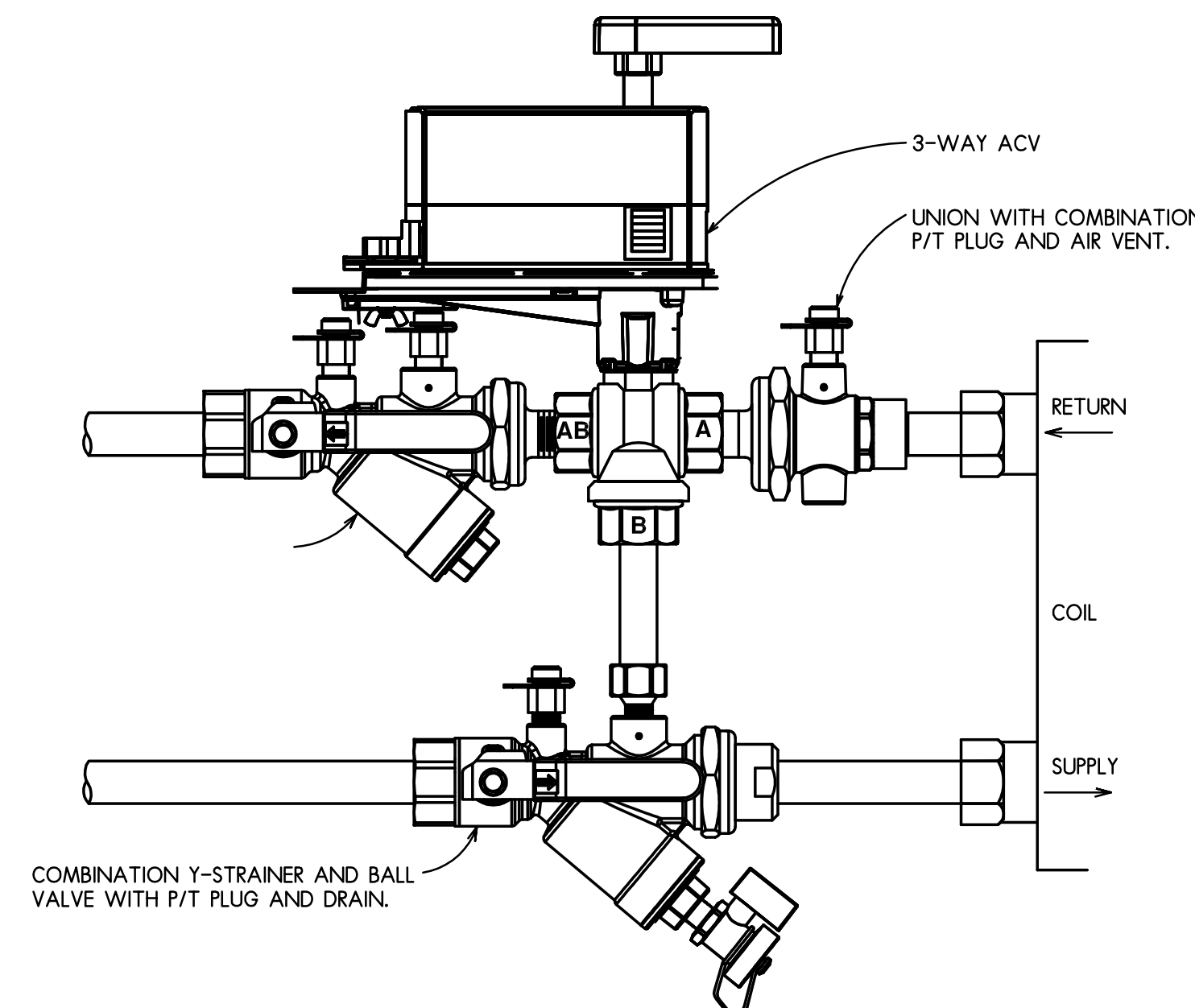
6 HEAT EXCHANGER PIPING
NTS



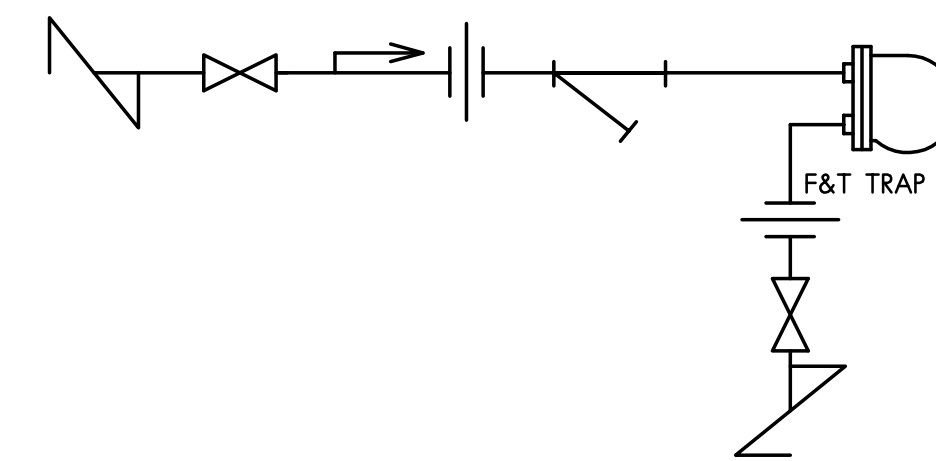
7 HOT WATER PUMPING STATION
NTS



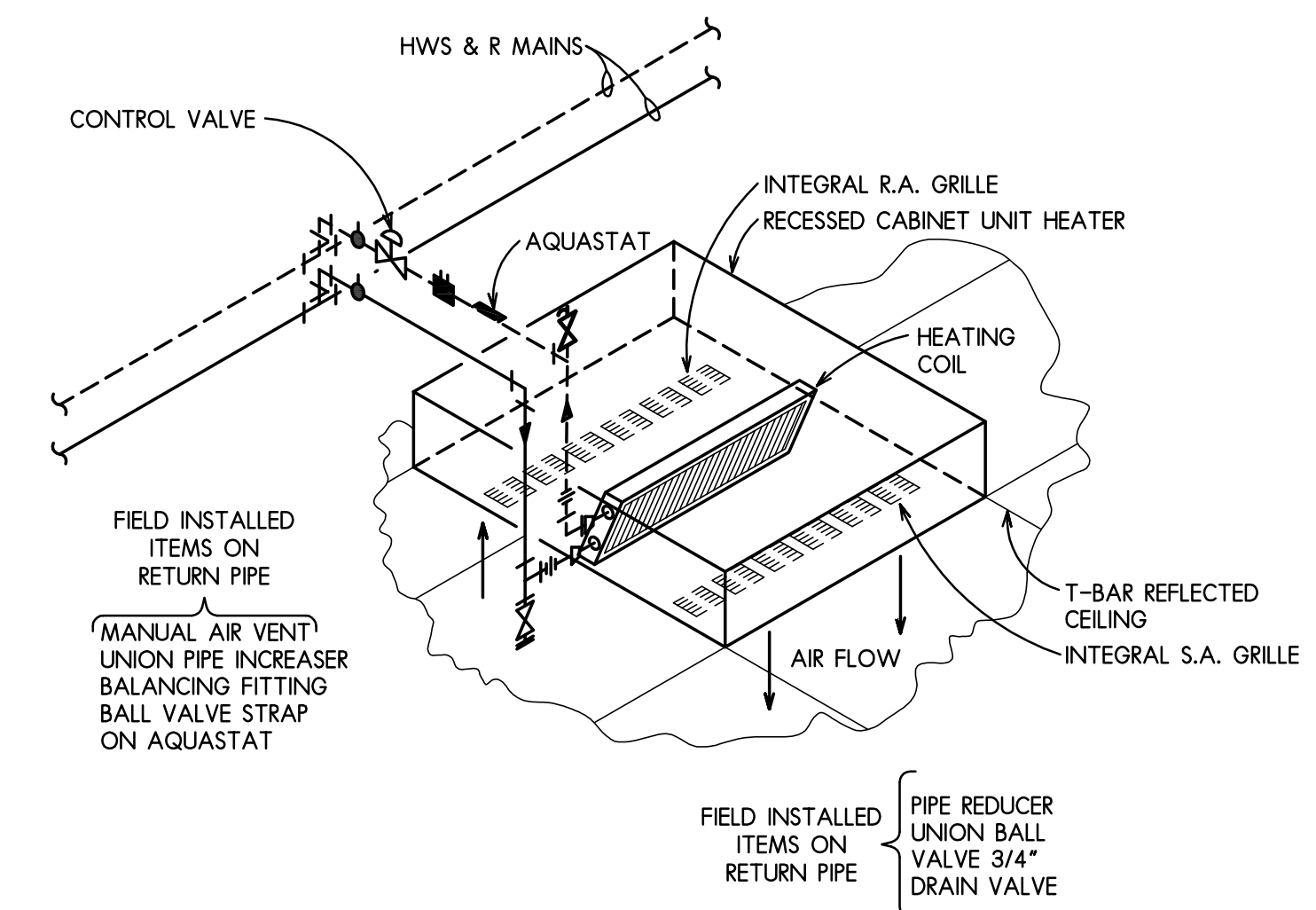
8 EXPANSION TANK (ET) PIPING DETAIL
NTS



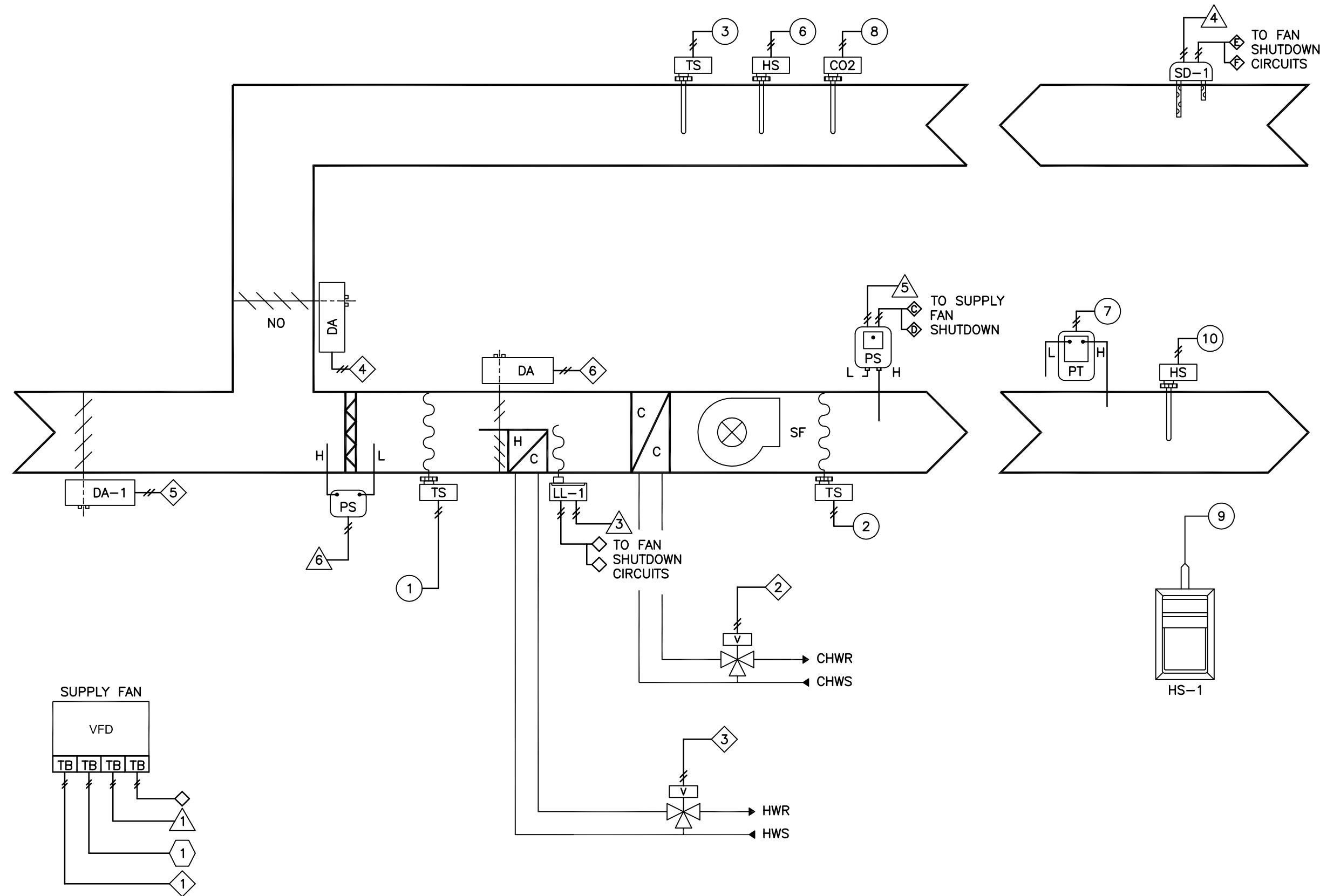
9 HOT WATER HEATING COIL PIPING DETAIL - 3-WAY VALVE
NTS



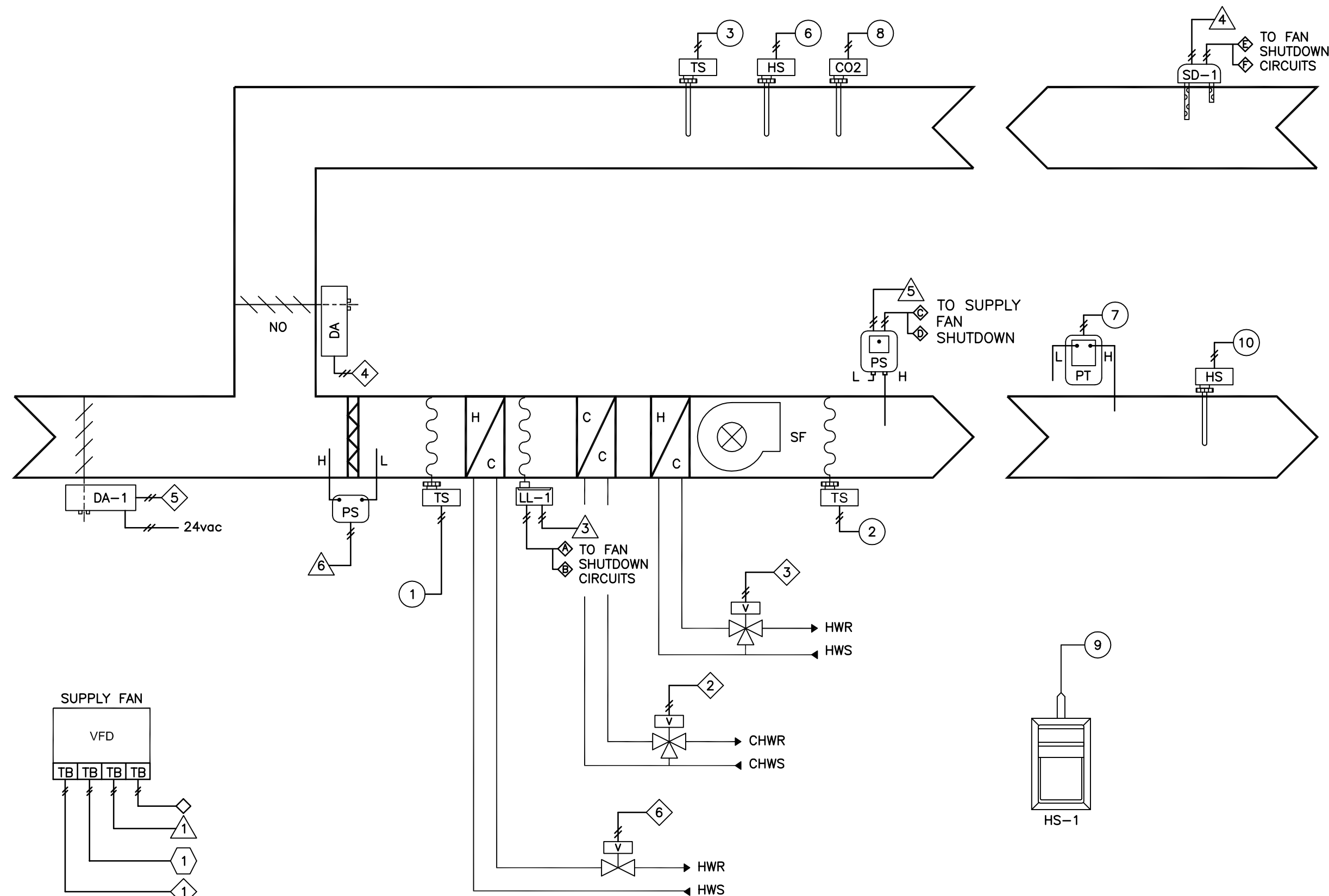
10 STEAM TRAP CONNECTION DETAIL
NTS



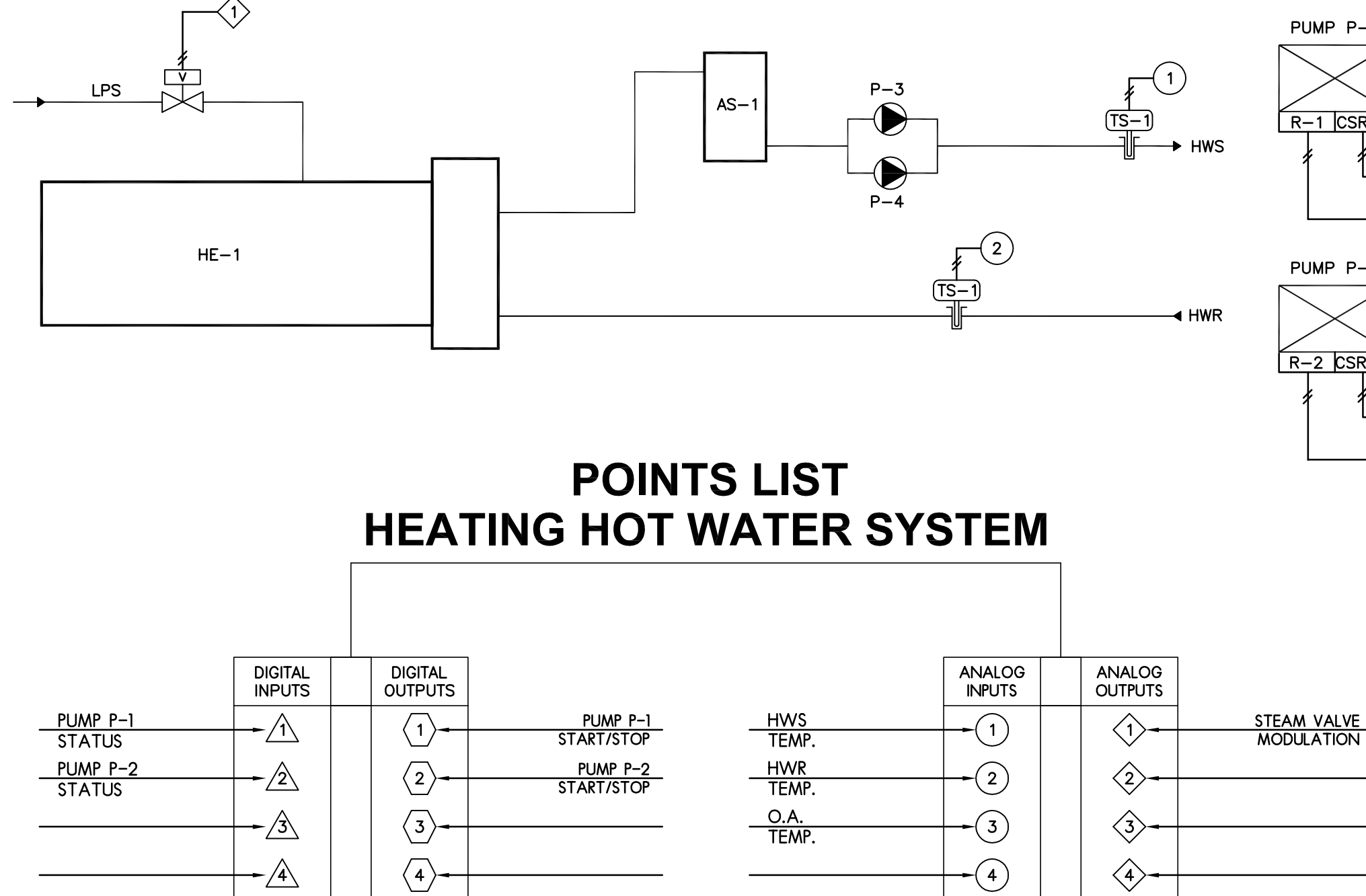
11 HORIZONTAL CABINET UNIT HEATER (CUH) PIPING DETAIL
NO SCALE



AIR HANDLING UNIT AHU-1, 2 & 3
LOCATED IN: ABOVE CORRIDOR CEILING
SERVES: NORTH, SOUTH & EAST WINGS



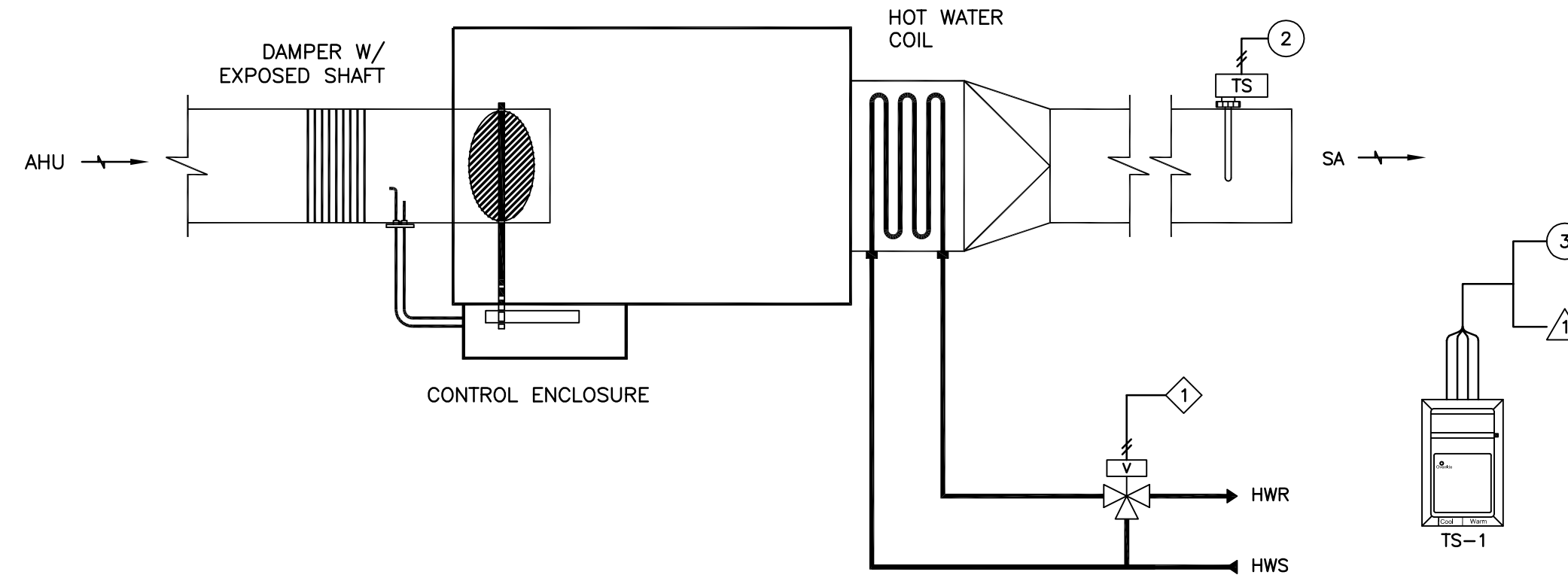
AIR HANDLING UNIT AHU-4
LOCATED IN: WEST FAN ROOM
SERVES: CAFETERIA



HEATING HOT WATER SYSTEM
LOCATED IN: WEST FAN ROOM
SERVES: HEATING HOT WATER

**AHU-1, 2 & 3 POINTS LIST
CLASSROOM WING**

DIGITAL INPUTS	DIGITAL OUTPUTS	ANALOG INPUTS	ANALOG OUTPUTS
SUPPLY FAN STATUS	1	M.A. TEMP.	1
MANUAL OVERRIDE	2	D.A. TEMP.	2
LOW LIMIT STATUS	3	R.A. TEMP.	3
R.A. SMOKE DETECTION ALARM	4	O.A. TEMP.	4
HIGH STATIC CUT OFF	5	O.A. HUMIDITY	5
M.A. FILTER SWITCH	6	R.A. HUMIDITY	6
	7	DUCT STATIC PRESSURE	7
	8	CO2 LEVEL PPM	8
	9	ROOM HUMIDITY	9
	10	S.A. HUMIDITY	10
	11		11
	12		12



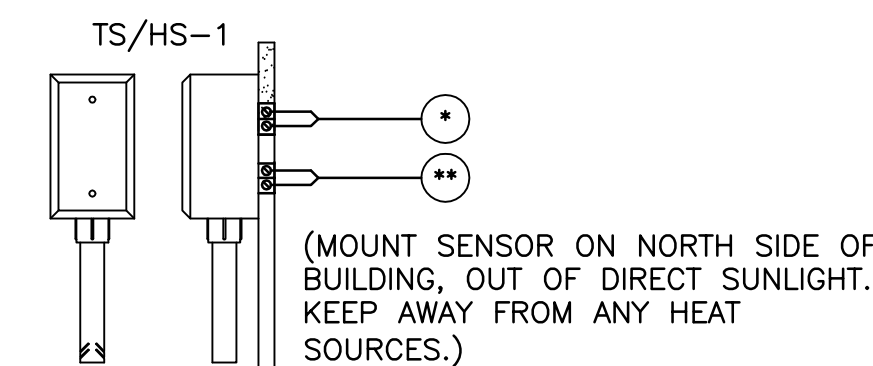
VAV POINTS LIST

DIGITAL INPUTS	DIGITAL OUTPUTS	ANALOG INPUTS	ANALOG OUTPUTS
MANUAL OVERRIDE	1	PRIMARY AIR FLOW (CFM)	1
MIN. PRIMARY AIR FLOW (CFM)	2	D.A. TEMP.	2
	3	ROOM TEMP.	3
	4		4

SINGLE DUCT VAV BOX
(TYPICAL OF 27)

**AHU-4 POINTS LIST
CAFETERIA**

DIGITAL INPUTS	DIGITAL OUTPUTS	ANALOG INPUTS	ANALOG OUTPUTS
SUPPLY FAN STATUS	1	M.A. TEMP.	1
MANUAL OVERRIDE	2	D.A. TEMP.	2
LOW LIMIT STATUS	3	R.A. TEMP.	3
R.A. SMOKE DETECTION ALARM	4	O.A. TEMP.	4
HIGH STATIC CUT OFF	5	O.A. HUMIDITY	5
M.A. FILTER SWITCH	6	R.A. HUMIDITY	6
	7	DUCT STATIC PRESSURE	7
	8	CO2 LEVEL PPM	8
	9	ROOM HUMIDITY	9
	10	S.A. HUMIDITY	10
	11		11
	12		12



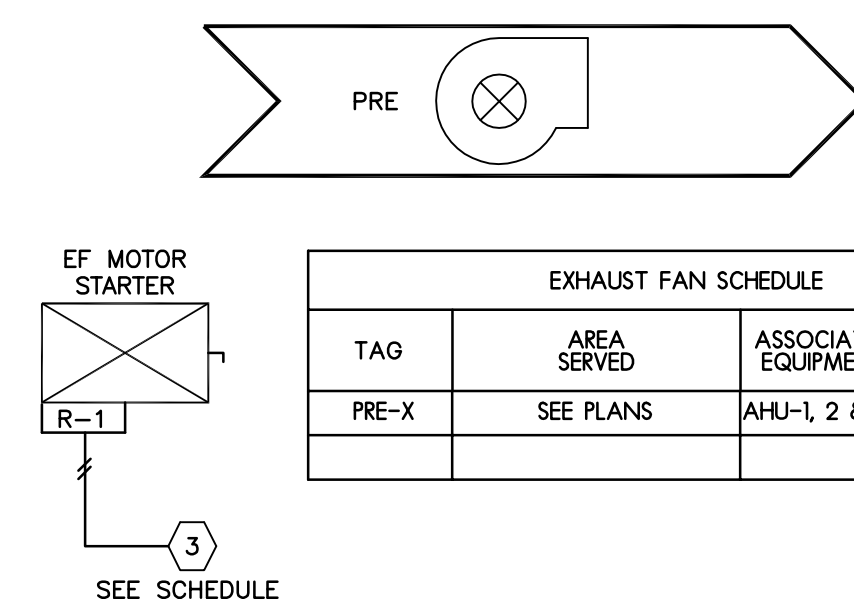
**OUTDOOR AIR TEMPERATURE/
HUMIDITY SENSOR**

EXHAUST FAN SCHEDULE

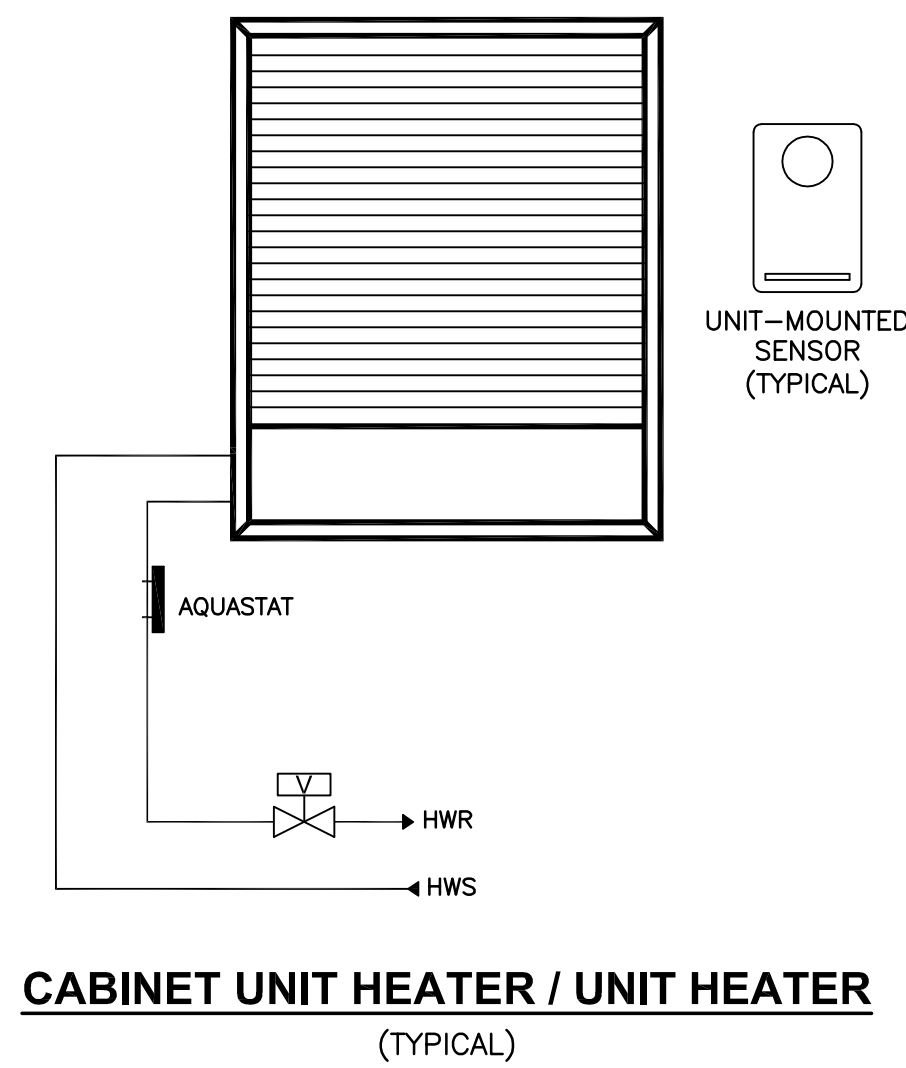
TAG	DESCRIPTION	ASSOCIATED EQUIPMENT	ANALOG INPUT #
*	O.A. TEMPERATURE	AHU-123	4
**	O.A. HUMIDITY	AHU-123	5
*	O.A. TEMPERATURE	AHU-4	4
**	O.A. HUMIDITY	AHU-4	5
*	O.A. TEMPERATURE	HE-1	3

**POINTS LIST
CHILLED WATER SYSTEM**

DIGITAL INPUTS	DIGITAL OUTPUTS	ANALOG INPUTS	ANALOG OUTPUTS
CHILLER C-1 STATUS	1	CHILLER ENTERING WATER TEMP.	1
PUMP P-1 STATUS	2	CHILLER LEAVING WATER TEMP.	2
PUMP P-2 STATUS	3		3
	4		4



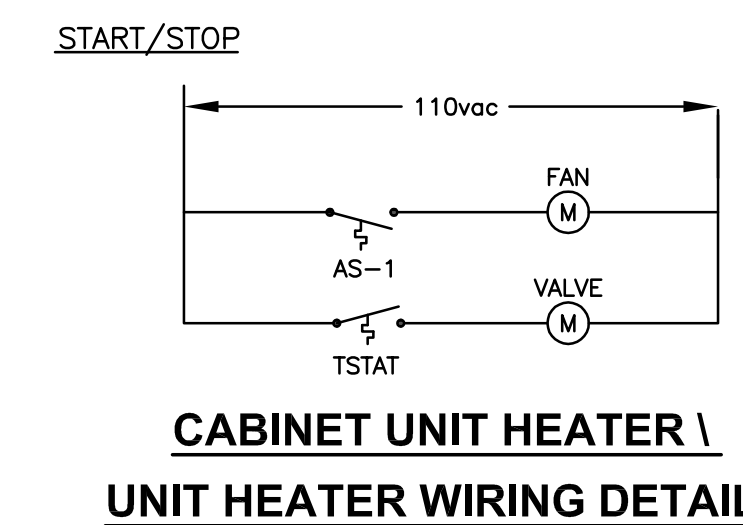
EXHAUST FAN CONTROLLED BY TIME CLOCK



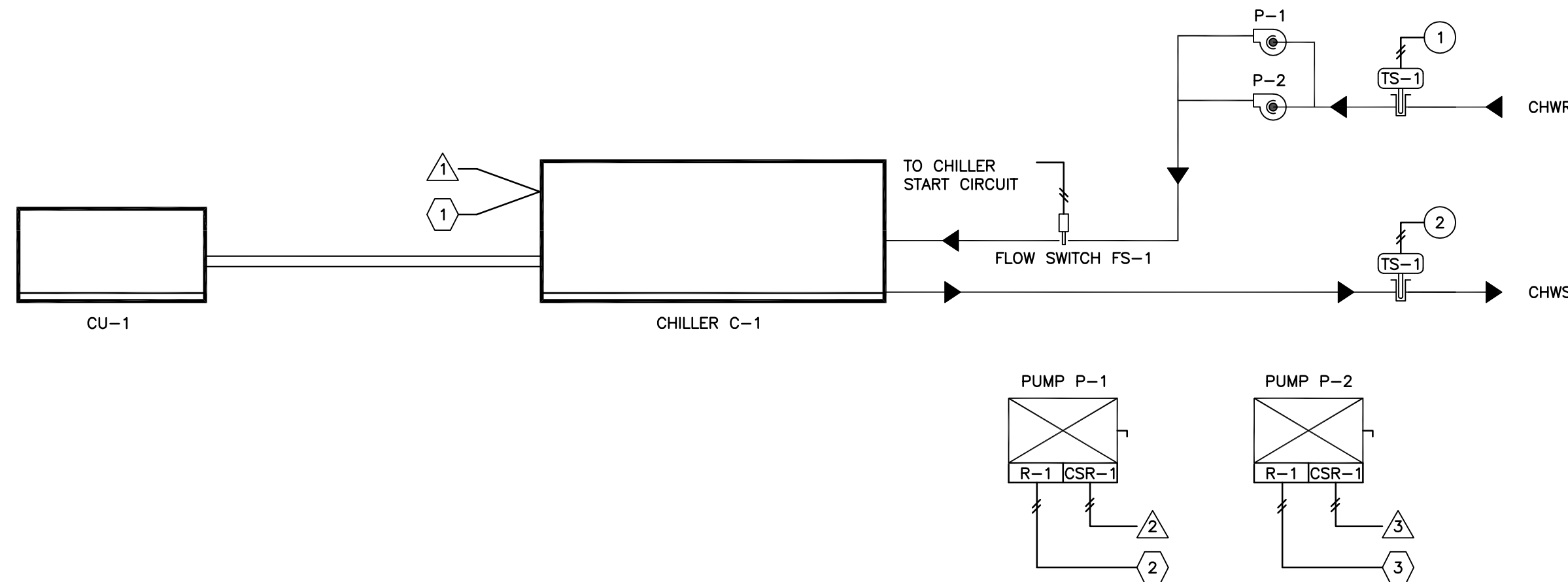
CABINET UNIT HEATER / UNIT HEATER
(TYPICAL)

GENERAL CONTROL NOTES

- IMMERSION WELL SHALL BE PROVIDED BY T.C.C., INSTALLED BY M.C.
- FLOW SWITCH PROVIDED BY CHILLER MANUFACTURER, INSTALLED BY M.C., AND WIRED TO CHILLER CONTROL PANEL BY T.C.C.
- ROOM HUMIDITY SENSOR TO BE MOUNTED IN A CENTRALIZED LOCATION IN ITS RESPECTIVE ZONE. TERMINATE SENSOR TO NEAREST VAV/FVAV BOX CONTROL MODULE.
- CHILLED/HOT WATER 2 & 3-WAY CONTROL VALVE SHALL BE PROVIDED BY T.C.C. & INSTALLED BY M.C.
- PRESSURE TRANSDUCER SHALL BE PROVIDED AND INSTALLED BY T.C.C. MOUNT TRANSDUCER 2/3 DOWNSTREAM DUCT FROM THE SUPPLY FAN.
- DUCT MOUNTED SMOKE DETECTOR PROVIDED BY E.C., INSTALLED BY M.C., AND WIRED FOR FAN SHUTDOWN BY T.C.C.



**CABINET UNIT HEATER \
UNIT HEATER WIRING DETAILS**



CHILLED WATER SYSTEM
CHILLER, PUMP AND PIPING LOCATED IN EAST FAN ROOM
AIR COOLED CONDENSERS LOCATED OUTDOOR

HVAC CONTROLS

SCALE: AS NOTED

VARIABLE AIR VOLUME BOX WITH HOT WATER REHEAT (VAVR) SCHEDULE

PLAN NO.	VAVR-1	VAVR-2	VAVR-3	VAVR-4	VAVR-5	VAVR-6	VAVR-7	VAVR-8	VAVR-9	VAVR-10	VAVR-11	VAVR-12	VAVR-13	VAVR-14	VAVR-15	VAVR-16	VAVR-17	VAVR-18	VAVR-19	VAVR-20	VAVR-21	VAVR-22	VAVR-23	VAVR-24	VAVR-25	VAVR-26	VAVR-27
SERVICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL/SIZE	DESV/14	DESV/12	DESV/12	DESV/12	DESV/12	DESV/12	DESV/12	DESV/12	DESV/12	DESV/12	DESV/07	DESV/07	DESV/09	DESV/09	DESV/09	DESV/14	DESV/12	DESV/12	DESV/12	DESV/12	DESV/08	DESV/12	DESV/14	DESV/08	DESV/06	DESV/06	DESV/06
INLET DIA (IN)	14	12	12	12	12	12	12	12	12	12	07	07	09	09	09	14	12	12	12	12	08	12	14	08	06	06	06
OUTLET DUCT SIZE (IN)	20x17.5	16x15	16x15	16x15	16x15	16x15	16x15	16x15	16x15	16x15	12x10	12x10	14x12.5	14x12.5	14x12.5	20x17.5	16x15	16x15	16x15	16x15	12x10	20x17.5	12x10	12x8	12x8	12x8	
MAX. CFM	1200	900	900	900	900	900	900	900	900	900	370	320	330	700	520	1350	900	940	800	900	300	900	1600	310	280	200	
MIN. CFM	720	540	540	540	540	540	540	540	540	540	220	200	200	420	310	810	540	565	480	540	180	540	960	185	170	120	
MAX. NC (I)	18/19	18/23	18/23	18/23	18/23	18/23	18/23	18/23	18/23	18/23	19/23	18/23	12/14	18/25	15/20	18/19	18/23	19/23	18/22	18/23	14/23	18/23	20/19	14/24	17/24	14/22	
MAX. S.P. (I)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
MAX. HEATING CFM	720	540	540	540	540	540	540	540	540	540	220	200	200	420	310	810	540	565	480	540	180	540	960	185	170	120	
EAT/LAT DB (°F)	55/111.4	55/109.1	55/109.1	55/109.1	55/109.1	55/109.1	55/109.1	55/109.1	55/109.1	55/109.1	55/109.8	55/111.2	55/116.7	55/105.7	55/110	55/109.1	55/109.1	55/108.2	55/113	55/109.1	55/112.7	55/109.1	55/105.8	55/112.3	55/104.3	55/114.1	
MIN. CAP. (MBH)	44	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	13.1	12.2	13.4	23.1	18.5	47.5	32.6	27.7	31.7	31.7	52.9	31.7	52.9	11.5	9.1	7.7	
OPM	2.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.9	0.8	0.9	1.5	1.2	3.2	2.1	2.2	1.8	2.1	0.8	2.1	3.5	0.8	0.6	0.6	
EWTL/LWT (°F)	180/149.2	180/149.2	180/149.2	180/149.2	180/149.2	180/149.2	180/149.2	180/149.2	180/149.2	180/149.2	180/149.1	180/149.1	180/150	180/149	180/149.1	180/149.1	180/149.2	180/149.1	180/149.1	180/149.2	180/149.1	180/149.2	180/149	180/149.1	180/149.4	180/154.2	
COIL ROWS	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	
APD (INL. W.C.)	0.13	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.11	0.09	0.05	0.16	0.1	0.15	0.15	0.16	0.12	0.15	0.08	0.15	0.2	0.08	0.11		
WPD (FT. HEAD)	0.38	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.17	0.15	0.1	0.2	0.16	0.44	0.35	0.37	0.27	0.35	0.14	0.35	0.53	0.14	0.08		
CONTROL VALVE	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	
NOTES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

- NOTES:
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - CONDITIONS AT MAXIMUM CFM.
 - FIELD COORDINATE SERVICE & PIPE CONNECTION SIDE IN FIELD.

VARIABLE AIR VOLUME BOX WITH HOT WATER REHEAT (VAVR) SCHEDULE

PLAN NO.	VAVR-28	VAVR-29	VAVR-30	VAVR-31	VAVR-32	VAVR-33	VAVR-34	VAVR-35	VAVR-36	VAVR-37	VAVR-38	VAVR-39	VAVR-40	VAVR-41	VAVR-42	VAVR-43	VAVR-44	VAVR-45	VAVR-46	VAVR-47	VAVR-48	VAVR-49	VAVR-50	VAVR-51	VAVR-52	VAVR-53
SERVICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL/SIZE	DESV/07	DESV/04	DESV/05	DESV/06	DESV/06	DESV/12	DESV/12	DESV/05	DESV/05	DESV/05	DESV/05	DESV/05	DESV/14	DESV/12	DESV/12	DESV/12	DESV/12	DESV/12	DESV/12	DESV/12	DESV/12	DESV/09	DESV/06	DESV/07	DESV/09	DESV/06
INLET DIA (IN)	07	04	05	06	06	12	12	05	05	05	05	05	14	12	12	12	12	12	12	12	09	06	07	09	06	
OUTLET DUCT SIZE (IN)	12x10	12x8	12x8	12x8	12x8	16x15	16x15	12x8	12x8	12x8	12x8	12x8	20x17.5	16x15	16x15	16x15	16x15	16x15	16x15	16x15	14x12.5	12x8	12x10	14x12.5	12x8	
MAX. CFM	450	100	200	220	220	820	820	105	105	120	120	120	1100	800	800	800	800	800	800	840	480	250	400	600	300	
MIN. CFM	270	60	120	130	130	490	490	60	60	70	70	70	660	480	480	480	480	480	480	500	290	150	240	360	180	
MAX. NC (I)	20/24	14/27	17/28	14/22	14/22	18/22	18/22	~/22	~/22	10/23	10/23	10/23	18/18	18/22	18/22	18/22	18/22	18/22	18/22	18/23	15/20	16/23	19/24	16/23	18/22	
MAX. S.P. (I)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
HW COIL	MAX. HEATING CFM	270	60	120	130	490	490	60	60	70	70	70	660	480	480	480	480	480	480	500	290	150	240	360	180	
	EAT/LAT DB (°F)	55/107	55/103.9	55/114.1	55/111.8	55/110.9	55/110.9	55/103.9	55/103.9	55/100.2	55/100.2	55/100.2	55/113	55/113	55/113	55/113	55/113	55/113	55/113	55/110.5	55/111	55/107.8	55/108.4	55/107.7	55/103.3	
	MIN. CAP. (MBH)	15.2	3.2	7.7	8	8	29.7	3.2	3.4	3.4	3.4	3.4	41.5	29.3	29.3	29.3	29.3	29.3	29.3	30.1	17.6	8.4	13.9	20.6	9.4	
	GPM	1	0.3	0.6	0.6	0.6	2	0.3	0.3	0.3	0.3	0.3	2.8	1.9	1.9	1.9	1.9	1.9	1.9	2	1.2	0.6	0.9	1.4	0.6	
	EWTL/LWT (°F)	180/149	180/158.6	180/154.2	180/153.1	180/153.1	180/149.1	180/158.6	180/158.6	180/156.9	180/156.9	180/156.9	180/149.1	180/149.1	180/149.1	180/149.1	180/149.1	180/149.1	180/149.1	180/149.1	180/149.1	180/151.1	180/149	180/149	180/149.1	
	COIL ROWS	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	1-RH	1-RH	1-RH	1-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH	2-RH
	APD (INL. W.C.)	0.15	0.01	0.06	0.07	0.07	0.13	0.13	0.01	0.01	0.01	0.01	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.09	0.09	0.12	0.13	0.12	
	WPD (FT. HEAD)	0.19	0.08	0.08	0.08	0.08	0.31	0.08	0.08	0.08	0.08	0.08	0.34	0.3	0.3	0.3	0.3	0.3	0.3	0.32	0.15	0.08	0.18	0.18	0.08	
	CONTROL VALVE	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY	THREE WAY
	NOTES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- NOTES:
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - CONDITIONS AT MAXIMUM CFM.
 - FIELD COORDINATE SERVICE & PIPE CONNECTION SIDE IN FIELD.

AIR HANDLING UNIT (AHU) SCHEDULE

PLAN NO.	AHU-1	AHU-2	AHU-3	AHU-4
SERVICE	NORTH WING	SOUTH WING	EAST WING	CAFETERIA
MANUFACTURER	TRANE	TRANE	TRANE	TRANE
MODEL	CSAA017	CSAA017	CSAA017	CSAA008
CFM	8,500	8,500	8,500	3,500
MIN. O.A.	7,300	5,285	6,035	-
ESP (IN WC)	2.00	2.00	2.00	1.00
HP	10	10	10	5
VOLT/PH	200-208/3	200-208/3	200-208/3	200-208/3
COOLING COIL	EDB (°F)	84.00	84.00	81.00
	EWB (°F)	68.70	69.30	70.30
	LDB (°F)	55.00	55.00	55.00
	LWB (°F)	54.39	54.47	54.52
	MBH	382.65	400.13	431.12
	EWLT (°F)	45.00	45.00	45.00
	LWLT (°F)	55.00	55.00	55.00
	OPM	76.26	79.75	85.92
	WPD	8.61	9.34	10.70
	APD	0.752	0.775	0.801
HEATING COIL	ROWS/FFP	6/110	6/111	6/114
	EAT (°F)	16.00	4.20	-1.30
	LAT (°F)	55.27	55.16	55.01
	MBH	362.20	471.84	516.51
	EWLT (°F)	180.00	180.00	180.00
	LWLT (°F)	149.51	144.70	156.29
	OPM	24.00	27.00	44.00
NOTES	WPD	0.81	3.70	9.55
	APD	0.377	0.749	0.749
	ROWS/FFP	2/120	3/108	1/80

- NOTES:
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - PROVIDE EACH UNIT WITH ECONOMIZER SECTION, FILTER MIXING BOX SECTION, (2) MEDIUM ACCESS SECTION, (2) COIL SECTIONS, AND FAN SECTION.
 - INTERLOCK EACH UNIT WITH ITS ASSOCIATED RETURN FAN.
 - MOUNT ON 6" CEB AND SPRING TYPE VIBRATION ISOLATORS.

AIR SEPARATOR (AS) SCHEDULE

PLAN NO.	AS-1	AS-2
SERVICE	CHILLED WATER SYSTEM	HOT WATER SYSTEM
MANUFACTURER	BELL & GOSSETT	BELL & GOSSETT
MODEL	R-4F	R-5F
FLOW (GPM)	300	500
LINE SIZE (IN)	4	5
NOTES	-	-

- NOTES: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CHILLER SCHEDULE

PLAN NO.	CH-1	
MANUFACTURER	TRANE	
MODEL NO.	RTUD-160	
NOMINAL TONS	160	
CAPACITY TONS	160.4	
COMPRESSOR TYPE/NO.	ROTARY SCREW/2	
CHILLER EWT °F	56.0	
CHILLER LWT °F	44.0	
CHILLER GPM	279.6	
REFRIGERANT	R134a	
AMBIENT TEMP. (°F)	95.0	
VOLT/PH/Hz	200-208/3/60	
MCA/MOCP	612.0/800.0	
RLA	270.0/270.0	
FULL LOAD KW/TON	1.188	
IP/LV KW/TON	0.887	
WEIGHT (LBS)	6,803.5	
CONDENSER INFO.	TYPE	AIR COOLED REMOTE
	QTY.	2
	NO. OF FANS	6 EACH
	VOLT/PH/Hz	208-230/60/3
	MCA/MOCP	43.1/50.0
	FLA EACH FAN	6.9
WEIGHT (LBS)	2,100	
NOTES	1,2,3,4,5,6,7,8,9,10,11,12,13	

- NOTES:
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - BAS COMMUNICATION INTERFACE.
 - CHILLED WATER RESET.
 - LOW AMBIENT LOCKOUT 40°F.
 - NON-FUSED DISCONNECTS.
<

STEAM TO WATER U-TUBE
HEAT EXCHANGER (HE) SCHEDULE

PLAN NO.		HE-1
SERVICE		HEATING HOT WATER
MANUFACTURER		BELL & GOSSETT
MODEL		GSU-87-2
HEAT TRANSFER (MBH)		1,980
SHELL SIZE	FLUID	STEAM
	ENTERING PRESSURE (PSI)	5.0
	CAPACITY (LBS./HR.)	2,047.9
	PIPE CONNECTION SIZE (IN.)	4.0" INLET / 1.0" OUTLET
TUBE SIZE	FLUID	WATER
	EWT/LWT (°F)	150/180
	GPM/MAX Δ P (PSI)/NO. OF PASSES	135.0/6.5/2
	PIPE CONNECTION SIZE (IN.)	3.0" INLET / 3.0" OUTLET
SHELL LENGTH (FT.)/DIAMETER (IN.)		89/8
HEAT TRANSFER (FT ²)		59.2
MAX DESIGN PRESSURE (PSI)		150
MAX OPERATING TEMPERATURE (°F)		375
WEIGHT (LBS)		-
NOTES		1, 2

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. FINAL SURFACE AREA AND SIZE OF SHELL TO BE DETERMINED BY MANUFACTURER TO MEET PERFORMANCE INDICATED.

OUTDOOR AIR INTAKE/RELIEF
(OAI/OAR) SCHEDULE

PLAN NO.	OAI-1	OAI-2	OAI-3	OAI-4
SERVICE	AHU-1	AHU-2	AHU-3	AHU-4
MANUFACTURER	CARNES	CARNES	CARNES	CARNES
MODEL	GI	GI	GI	GI
THROAT SIZE	30x96	20x72	20x72	30x48
HOOD SIZE	65x131	46x98	46x98	57x75
CFM	10,000	5,000	5,000	7,000
THROAT FPM	500	500	500	700
NOTES	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE MANUFACTURERS PREFAB CURB.
3. PROVIDE WITH NON-FERROUS BRID SCREEN.
4. COORDINATE FINAL LOCATION WITH STRUCTURE & OTHER TRADES.
5. MAINTAIN A MINIMUM 10'-0" DISTANCE FROM EXHAUST, FLUE OR VENT.
6. MAINTAIN A MINIMUM 10'-0" DISTANCE FROM ANY FRESH AIR INTAKE.

STEAM TRAP SCHEDULE

PLAN NO.	ST-1, 2, 3 & 4
SERVICE	GENERAL
MANUFACTURER	BELL & GOSSETT
MODEL	FT075H-3
TYPE	F&T
CONNECTION SIZE	3/4"
MAX PRESSURE PSI	175
NOTES	1

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

HVAC SCHEDULES

SCALE: AS NOTED

RIVERDAHL ELEM. SCHOOL HVAC SYSTEM UPGRADES
RPS DISTRICT 205 – PROJECT #2243 – IFB #22-22
3520 KISHWAUKEE ST, ROCKFORD, IL 61109

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ISSUED FOR:	01-21-22	ISSUED FOR:	BIDDING
DRAWN BY:	-	CHECKED BY:	APPROVED BY:

DATE: 01-21-2022	PROJECT NUMBER
31029-02	
SHEET NUMBER	
M5.2	



GENERAL NOTES

1. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL GENERAL NOTES WHICH WILL APPLY HERE.
2. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
3. THE CONTRACTOR MUST VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING SITE AND BUILDING CONDITIONS WHICH WILL BE AFFECTED DURING CONSTRUCTION PRIOR TO SUBMITTING HIS BID PROPOSAL. CONTRACTOR IS CAUTIONED THAT THE PROJECT IS A REMODELING JOB AND IT IS ASSUMED THAT HE HAS INCLUDED FUNDS IN HIS BID TO COVER UNFORESEEN ITEMS WHICH MUST BE MOVED, RELOCATED OR ADJUSTED TO FIT HIS WORK. NO EXTRA COMPENSATION WILL BE ALLOWED FOR ANY EXTRA WORK CAUSED BY FAILURE TO VISIT, EXAMINE OR VERIFY.
4. ALL EXISTING EQUIPMENT IS TO REMAIN OPERATIONAL DURING CONSTRUCTION PERIOD. ALL TEMPORARY WIRING OR REROUTING OF CIRCUITRY TO ACHIEVE THIS IS BY THE ELECTRICAL CONTRACTOR. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE OWNER AND THEN ONLY FOR THAT DAY AND DURATION AGREED UPON. INCLUDE ALL PREMIUM TIME CHARGES IN THE BASE BID.
5. EXISTING CONDUIT IN SAME PLACE MAY BE REUSED WHERE POSSIBLE. PULL NEW WIRE AS REQUIRED. ALL UNUSED CONDUIT, WIRE, JUNCTION BOXES, ETC. WILL BE REMOVED. RELOCATED EXISTING CONDUIT SHALL NOT BE ALLOWED.
6. BOXES LOCATED ON OPPOSITE SIDES OF NON-FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALL SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU THE WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
7. ELECTRICAL CONTRACTOR SHALL VERIFY TOTAL CONNECTED LOAD/HP WITH ALL OTHER TRADES PRIOR TO WIRING OF ALL OTHER TRADES' EQUIPMENT. MAKE ANY CHANGES TO OVERCURRENT DEVICES AND FEEDER SIZE PER ELECTRICAL CODE AS REQUIRED.
8. PROVIDE SLEEVES/CONDUITS FOR LOW VOLTAGE CABLES WHEN THEY TRAVERSE ABOVE NON ACCESSIBLE CEILING SPACE. ALSO, PROVIDE SLEEVES THROUGH MASONRY WALLS FOR LOW VOLTAGE CABLES. VERIFY SLEEVE/CONDUIT SIZE REQUIREMENTS AND LOCATION WITH THE CONTRACTOR INSTALLING LOW VOLTAGE SYSTEM.
9. SOME DEVICES SHALL BE FLUSH MOUNTED (IN DRY WALLS AND EXISTING MASONRY WALLS CONSTRUCTION) AND SOME SHALL BE SURFACE MOUNTED (ON EXISTING MASONRY WALLS AND INSULATED PANELS). VERIFY REQUIREMENT BEFORE ORDERING ANY MATERIAL. COORDINATE WITH ARCHITECT/ENGINEER.
10. FOR THE AREA TO BE DEMOLISHED, THE DEMOLITION OF LIGHT FIXTURES, OUTLETS OR ANY OTHER ELECTRICAL EQUIPMENT/DEVICES SHALL BE PERFORMED AS REQUIRED. SEE ARCHITECTURAL DRAWINGS AND THE RESPECTIVE FLOOR PLANS IN ELECTRICAL DRAWINGS FOR DEMOLITION. ELECTRICAL CONTRACTOR SHALL REMOVE ALL ASSOCIATED RACEWAYS AND WIRING AS REQUIRED. ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND DISCONNECT APPLICABLE WIRING TO FACILITATE SAFE DEMOLITION.
11. THE EXISTING EQUIPMENT IS SHOWN BASED UPON THE INFORMATION OBTAINED THROUGH BRIEF SURVEY OF THE FACILITY. CONTRACTOR IS TO SURVEY THE EXISTING FACILITY IN ORDER TO DETERMINE THE FULL EXTENT OF WORK AND BE COMPLETELY FAMILIAR WITH ALL THE EXISTING CONDITIONS INCLUDING PLUMBING, HVAC, ELECTRICAL, ETC. THE ARCHITECT/ENGINEER AND OWNER ASSUME NO RESPONSIBILITY IN RESPECT TO THE ACCURACY OF SUCH INFORMATION SHOWN ON THE DRAWINGS. CONTRACTOR SHALL MAKE ADEQUATE ALLOWANCE IN HIS BID FOR SOME DEVIATIONS TO SUCH INFORMATION.
12. WHERE EXISTING CONDITIONS PREVENT PROPER INSTALLATION OF PROPOSED WORK, REROUTE, EXTEND OR ALTER EXISTING WORK SO AS TO ACCOMMODATE PROPOSED WORK REQUIREMENTS.
13. CIRCUIT NUMBERS SHOWN FOR EXISTING PANELS ARE FOR REFERENCE ONLY. USE NEXT AVAILABLE CIRCUITS AND PROVIDE APPROPRIATE SIZE BREAKERS.
14. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ELECTRICAL EQUIPMENT & DEVICES. THE ELECTRICAL DRAWINGS ARE FOR CONCEPT ONLY.
15. IN GENERAL, DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED, LIGHT SOLID LINES INDICATE ITEMS TO REMAIN AND DARK SOLID LINES INDICATE NEW ITEMS.
16. WHERE EXISTING WIRING DEVICE (SUCH AS RECEPTACLE, SWITCH, ETC.) IS INDICATED TO REMAIN, REUSE EXISTING JUNCTION BOX, RACEWAY, BUT PROVIDE NEW DEVICE AND ASSOCIATED COVERPLATE. RECONNECT THIS DEVICE TO NEW CIRCUIT AS INDICATED.
17. THE SYSTEMS PROVIDED BY THIS CONTRACTOR SHALL BE COMPLETELY OPERATIONAL REGARDLESS OF OMISSION OF MINOR ITEMS, SUCH AS CIRCUIT NUMBER FOR RELAY, A CIRCUIT NUMBER NEXT TO A LIGHTING FIXTURE, ETC.
18. ALL OUTDOOR DEVICES SUCH AS RECEPTACLES, DISCONNECTS, SPEAKERS, LIGHTING FIXTURES, JUNCTION BOXES, ETC. SHALL BE OUTDOOR TYPE.
19. WHERE A NEW WALL IS TO BE BUILT PERPENDICULAR TO EXISTING WALL AND IF THERE IS AN EXISTING RECEPTACLE ON THE EXISTING WALL, RELOCATE THIS RECEPTACLE AS REQUIRED - NEMA 3R.
20. IN CERTAIN CASES LARGER SIZE CABLES ARE SPECIFIED IN ORDER TO COMPENSATE FOR VOLTAGE DROP. PROVIDE OVERSIZE AND/OR MULTIPLE LUGS AT THE LINE AND LOAD SIDE OF EQUIPMENT TO INCORPORATE LARGER AND ADDITIONAL CABLES. IF REQUIRED, PROVIDE SPLICE BOXES AT EITHER END OF CABLE TO INTERCEPT CHANGE IN THE CABLES.
21. PROVIDE TYPED PANEL DIRECTORY INDICATING LOAD SERVED, INCLUDING INTO EXISTING PANELS THAT ARE MODIFIED.
22. UNO, ALL OVERCURRENT PROTECTION DEVICES 800 AMP AND LARGER SHALL BE 100% RATED.
23. AS REQUIRED EXTEND EXISTING RECEPTACLES WHERE EXISTING WALLS ARE FURRED OUT. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF THIS WORK.
24. DUE TO THE SMALL SCALE AND INTERFERENCE OF EXISTING EQUIPMENT, EACH AND EVERY ITEM IS NOT SHOWN. SHOWN INFORMATION IS INTENDED AS A GUIDE. CONTRACTOR SHALL VERIFY INFORMATION AND CONDITIONS IN THE FIELD.
25. RECONFIGURE LIGHTING FIXTURES AND OUTLETS IN MECHANICAL AND ELECTRICAL ROOMS TO BE COMPATIBLE WITH EQUIPMENT LAYOUT AS REQUIRED.
26. ALL RECEPTACLES LOCATED WITHIN 6' OF SOURCE OF WATER (SUCH AS SINK) AND ALL OUTDOOR RECEPTACLES SHALL BE GFI TYPE, WHETHER SPECIFICALLY INDICATED OR NOT.
27. IN ORDER TO FACILITATE THE REPLACEMENT OF EXISTING OR INSTALLATION OF NEW DUCTWORK AND/OR PIPING, REMOVE EXISTING LIGHTING FIXTURE AND/OR SMOKE/HEAT DETECTORS AS REQUIRED. THIS WORK IS NOT SHOWN ON DRAWINGS. ONCE THE INSTALLATION OF DUCTWORK, PIPING ETC IS COMPLETED, REINSTALL ELECTRICAL EQUIPMENT/DEVICES. PROVIDE ADEQUATE ALLOWANCE IN THE BID FOR THIS WORK.
28. PROVIDE EXPANSION FITTINGS FOR ALL ELECTRICAL RACEWAYS AT EVERY EXPANSION JOINT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATION OF EXPANSION JOINTS.
29. COORDINATE THE INSTALLATION OF ELECTRICAL EQUIPMENT SUCH AS PANELS, SWITCHBOARD, MOTOR CONTROL CENTER, TRANSFORMER ETC. WITH OTHER TRADES SUCH THAT NO DUCTWORK, PIPING ETC. IS LOCATED ABOVE THEM.
30. ALL CABLES IN PLENUM CEILING SHALL BE PROVIDED IN CONDUITS.
31. ELECTRICAL CONTRACTOR SHALL VERIFY SIZE OF ALL EXISTING OPENINGS, DOORS, ETC., FOR REMOVING EQUIPMENT AND MATERIAL OUT OF BUILDING. ELECTRICAL CONTRACTOR SHALL PROVIDE ANY NEW OR ENLARGED OPENINGS IN EXISTING

BUILDING CONSTRUCTION REQUIRED TO FACILITATE EXISTING OF HIS EQUIPMENT/MATERIAL AND RESTORE SUCH OPENINGS TO THEIR ORIGINAL STATE AFTER COMPLETION.

32. VERIFY QUANTITY AND SIZE OF LUGS PROVIDED IN OTHER TRADES' EQUIPMENT (FOR EXAMPLE, CHILLER, ELEVATOR, FIRE PUMP ETC.) BEFORE STARTING ANY WORK ASSOCIATED WITH SUCH EQUIPMENT. IF THEIR LUGS CANNOT ACCOMMODATE THE CABLES INDICATED IN ELECTRICAL DOCUMENT, PROVIDE LUG FITTINGS TO ACCOMMODATE CHANGE IN THE CABLES. PROVIDE SUCH FITTINGS IN A JUNCTION BOX AS CLOSE AS POSSIBLE TO THEIR EQUIPMENT. IF ALLOWED BY THE EQUIPMENT MANUFACTURER, SUCH FITTINGS MAY BE INSTALLED IN THEIR EQUIPMENT RATHER THAN IN A SEPARATE JUNCTION BOX.

33. MAIN SERVICE ENTRANCE EQUIPMENT SHALL HAVE LABEL FOR SERVICE ENTRANCE TYPE, AND SHALL BE GROUNDED PER ELECTRICAL CODE.

34. PROVIDE SEPARATE DEDICATED EQUIPMENT GROUNDING CONDUCTOR IN EACH FEEDER AND BRANCH CIRCUIT WIRING CIRCUIT.

35. PROVIDE FIRE SEALANTS FOR ALL PENETRATIONS THRU FIRE RATED FLOORS AND WALLS.

36. WHERE "VIF" IS INDICATED NEXT TO A DEVICE, CONTRACTOR SHALL VERIFY ITS REQUIREMENT IN FIELD. THIS INCLUDES VERIFICATION OF DEVICE TYPE, LOCATION, WIRING CONDUIT AND CIRCUIT BREAKER ETC. PROVIDE APPROPRIATE DEVICE, WIRING, CONDUIT, CIRCUIT BREAKER ETC. AS REQUIRED.

37. PROVIDE RED PLASTIC SIGN AT MAIN WATER SERVICE METER INDICATING "MAIN GROUND LOCATION."

38. AIC (AVAILABLE INTERRUPTING CAPACITY) RATING OF PANELS, SWITCHBOARDS, BUSWAY, MCC ETC. ARE SHOWN BASED UPON PRELIMINARY CALCULATIONS. THE FINAL RATING OF THE EQUIPMENT SHALL BE BASED UPON THE SHORT CIRCUIT COORDINATION STUDY. PROVIDE POWER DISTRIBUTION EQUIPMENT TO MEET THE RATING INDICATED IN THIS STUDY. THE STUDY SHALL BE BASED UPON THE ULTIMATE CAPABILITY OF THE MAIN SERVICE EQUIPMENT AND NOT THE INITIAL TRANSFORMER PROVIDED BY THE UTILITY COMPANY.

39. PROVIDE ARC-FLASH LABELS ON NEW EQUIPMENT IN ACCORDANCE WITH NEC.

40. WHERE EQUIPMENT DEVICES ARE INDICATED TO BE REMOVED, REMOVE ACCESSIBLE, UNUSABLE CONDUITS & WIRING. IF CONDUITS ARE NOT ACCESSIBLE THEY MAY BE ABANDONED. MAINTAIN CONTINUITY TO THE LOAD WHICH IS TO REMAIN.

41. WHERE EXISTING HVAC EQUIPMENT IS SHOWN TO BE REMOVED, REMOVE ITS ASSOCIATED STARTER, DISCONNECT SWITCH, CONDUIT WIRING BACK TO SOURCE ETC. FIELD VERIFY LOCATION OF STARTER, DISCONNECT, ETC.

42. ONLY OCCUPANCY/VACANCY SENSORS & REQUIRED SWITCHES ARE INDICATED. PROVIDE POWER PACKS (CONTROL RELAYS) AS REQUIRED. LOCATE SENSORS TO PROVIDE OPTIMUM COVERAGE OF THE DEVICE.

43. PROVIDE GROUND BUS BAR IN EACH PANEL WHETHER SPECIFICALLY INDICATED OR NOT.

44. ARMORED (BX) CABLES OR MC CABLES ARE NOT ALLOWED.

45. ALL BACKBOXES FOR DATA OUTLETS SHALL BE 2.75" DEEP UNLESS NOTED OTHERWISE.

46. ELECTRICAL DEVICES SUCH AS SPEAKERS, SMOKE/HEAT DETECTORS, OCCUPANCY SENSORS, DAY LIGHT SENSOR ETC. SHALL BE LOCATED IN AS CENTER AND AS UNIFORMLY IN ROOM AS POSSIBLE. THEY ARE NOT ALWAYS SHOWN IN CENTER OF A ROOM OR UNIFORMLY IN A ROOM TO AVOID CONFLICT WITH ROOM NUMBER TAGS.

47. LUGS FOR CIRCUIT BREAKERS AND SWITCHES SHALL BE RATED FOR TERMINATION OF 60 DEGREE C AND 75 DEGREE C RATED CONDUCTORS. THIS SHALL ALLOW USE OF CONDUCTORS BASED UPON AMPACITIES OF ONLY 75 DEGREE C.

48. OUTDOOR RECEPTACLES SHALL BE INSTALLED IN AN "IN USE" TYPE COVER. SUCH RECEPTACLES SHALL BE TYPE "WR" WEATHER-RESISTANT RECEPTACLES.

49. PROVIDE 1/4" ROD SUPPORTS FOR SUSPENDED LIGHT FIXTURES WHEN SUSPENSION HEIGHT EXCEEDS 12". ONLY CHAIN OR WIRE SUPPORT IS NOT ALLOWED.

50. ALL LOW VOLTAGE WIRING SHALL BE IN CONDUITS EXCEPT WIRING ABOVE ACCESSIBLE CEILING. WIRING ABOVE ACCESSIBLE CEILING SHALL BE EXPOSED UNLESS REQUIRED BY CODE TO BE IN CONDUITS. COORDINATE WITH LOW VOLTAGE SYSTEM VENDORS ROUTING OF THEIR CABLEING AND PROVIDE CONDUITS/RACEWAYS AS REQUIRED.

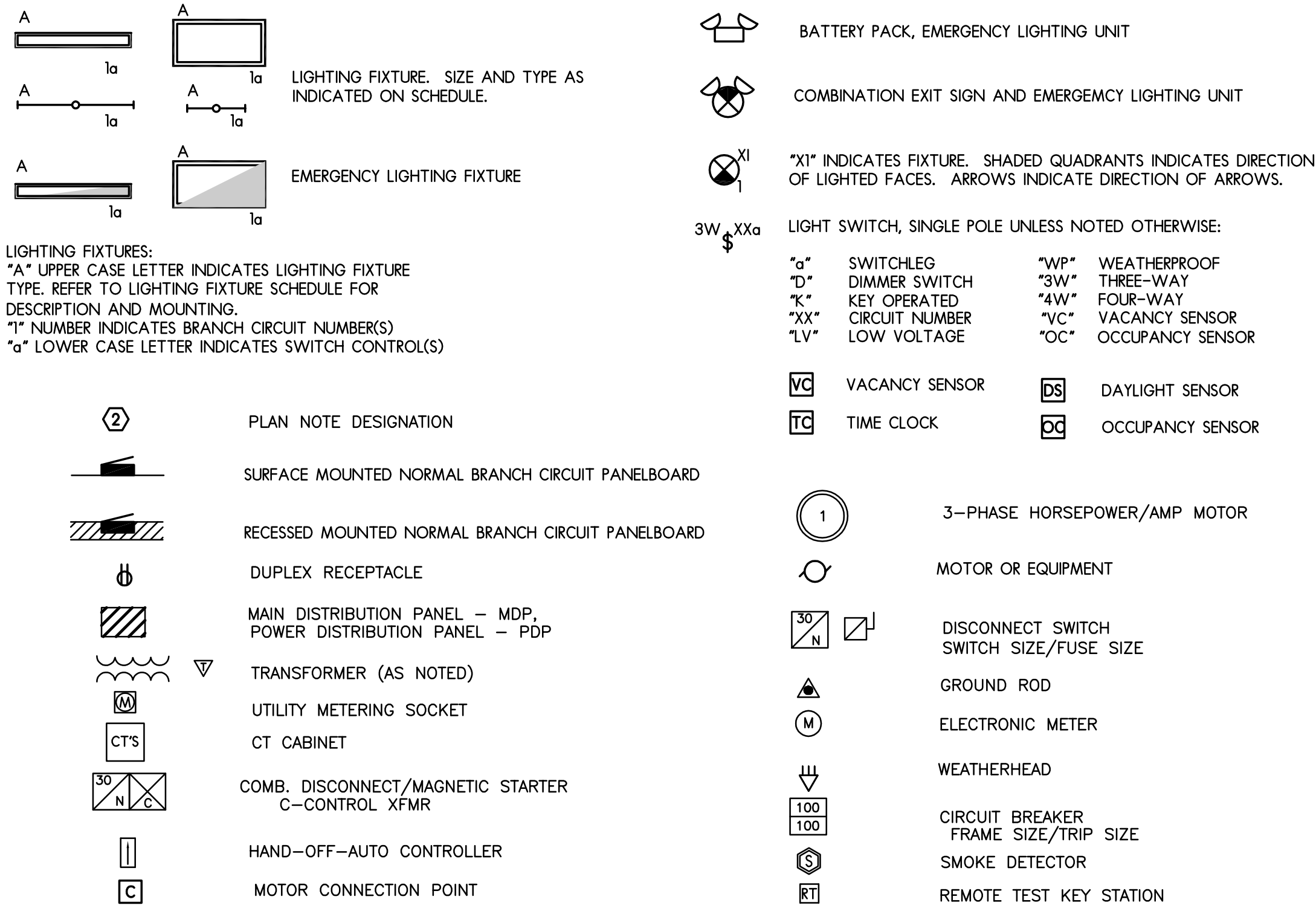
51. PROVIDE CAT5E OR EQUIVALENT CABLING SYSTEM FOR OCCUPANCY SENSORS, VACANCY SWITCHES/SENSORS, POWER PACKS, DIMMER SWITCHES, DAY LIGHT SENSORS ETC. AS REQUIRED. COORDINATE WITH MFG.

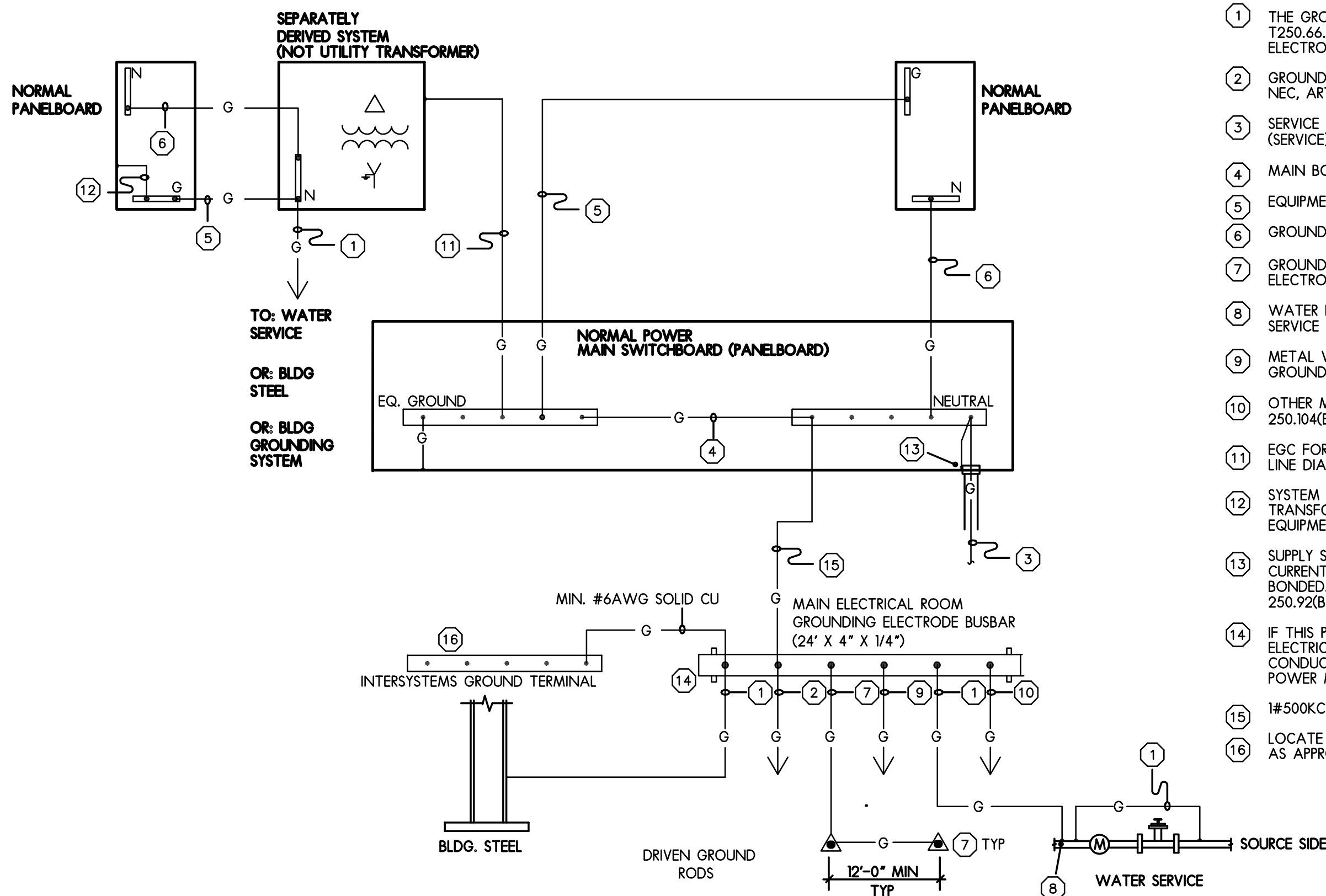
52. LIGHTING FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM BY AT LEAST TWO WIRES ON OPPOSITE CORNERS OF THE FIXTURES.

53. ALL WORK SHALL COMPLY WITH ALL LOCAL CODES.

54. UNLESS NOTES OTHERWISE, COLOR OF WIRING DEVICES (OUTLETS, SWITCHES AND COVER PLATES) SHALL BE WHITE. VERIFY FINAL COLOR WITH THE ARCHITECT/ENGINEER BY PROVIDING SUBMITTAL.

ELECTRICAL SYMBOLS

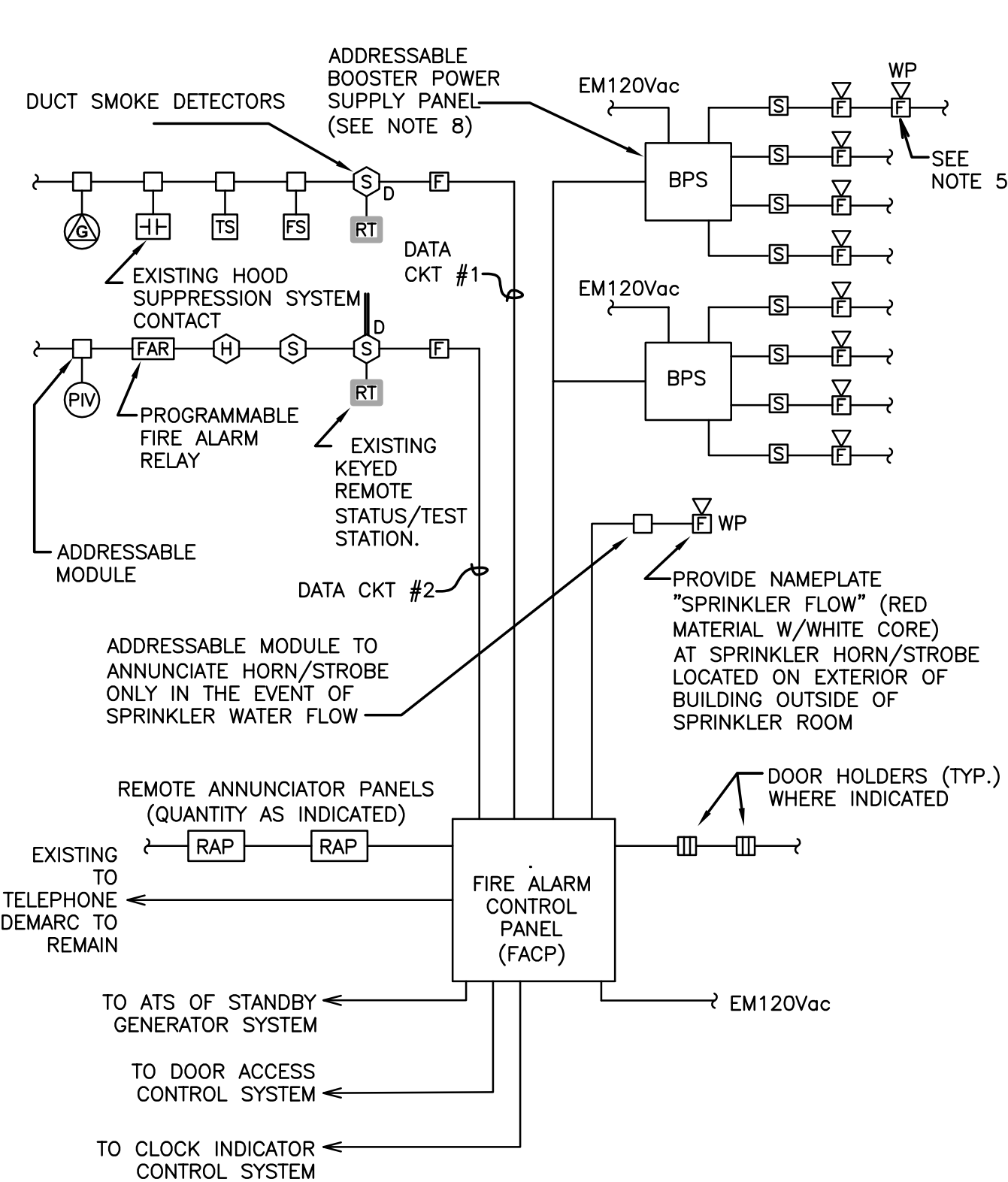




SERVICE GROUNDING WIRING DIAGRAM

NOT TO SCALE

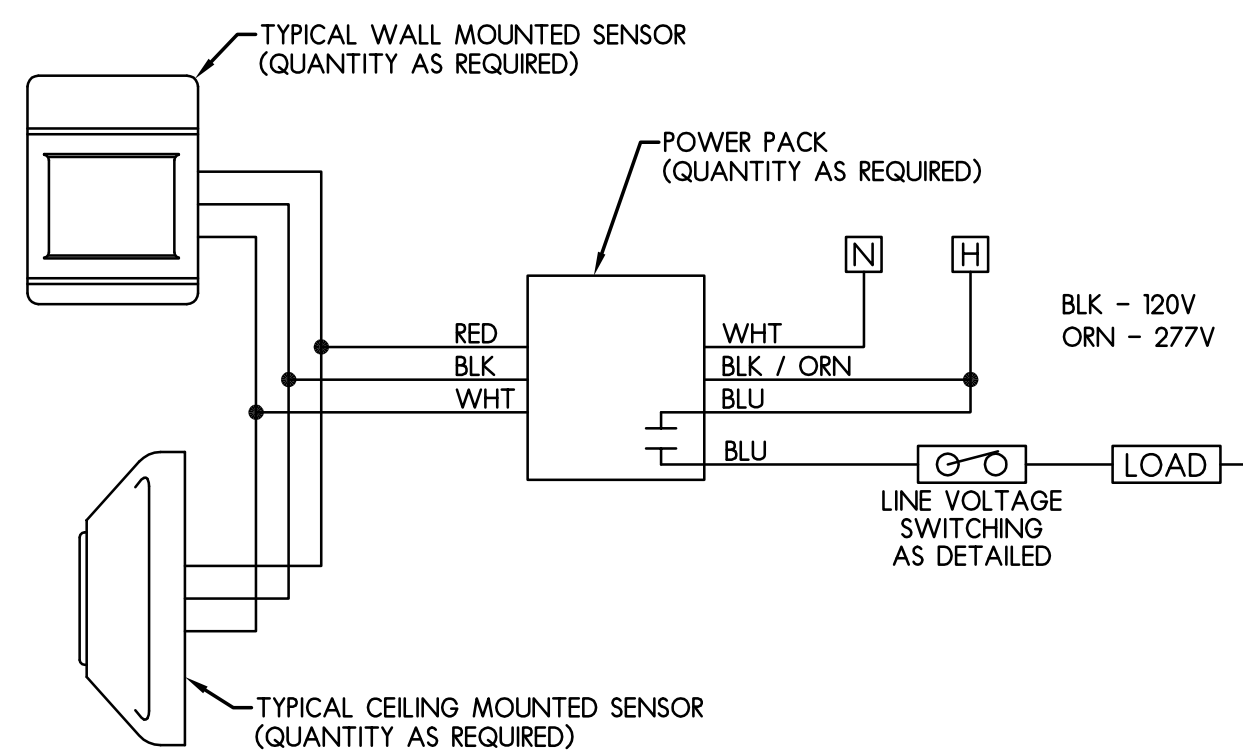
NOTE: NOT ALL ITEMS WITHIN THIS DIAGRAM MAY APPLY TO THIS PROJECT.



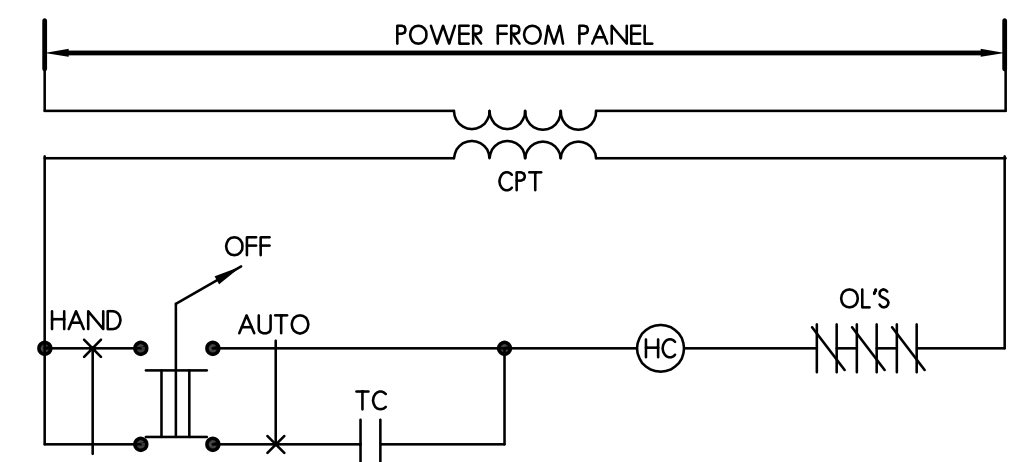
FIRE ALARM SYSTEM TYPICAL RISER DIAGRAM

NO SCALE

THIS DETAIL IS TYPICAL FOR FIRE ALARM SYSTEMS HOWEVER THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY WITH THE EXISTING FIRE ALARM SYSTEM ON SITE. THIS PROJECT WILL INCLUDE THE INSTALLATION OF THE DUCT SMOKE DETECTORS AS INDICATED. THE DUCT DETECTORS AND REMOTE TEST STATIONS WILL BE SUPPLIED BY THE MC AND WIRED BY THE EC. COORDINATE WITH THE MC.

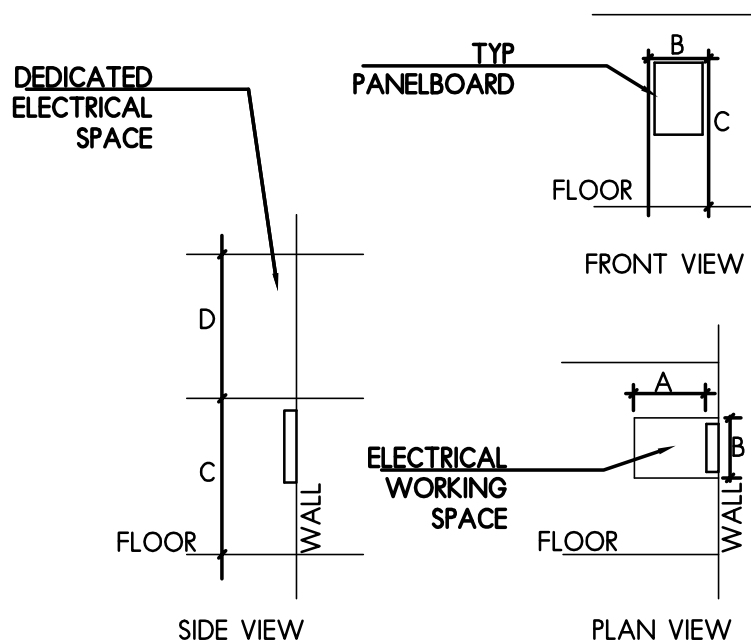


1. LOW VOLTAGE DUAL TECHNOLOGY SYSTEM BY WATTSTOPPER, SENSOR SWITCH OR APPROVED EQUAL.
2. PROVIDE UNIFORM SENSOR COVERAGE WITHOUT "GAPS". LOCATION & LAYOUT OF SENSORS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
3. WHERE SWITCHING IS PROVIDED OCCUPANCY SENSOR SHALL PROVIDE OFF ONLY. SET OFF SETTING AT 30 MINUTES.
4. OCCUPANCY SENSITIVITY SHALL BE ADJUSTED TO PROVIDE PROPER OPERATION IN THE FIELD.



HANDS-OFF-AUTO CONTROL DIAGRAM

NO SCALE



WORKING SPACE/CLEARANCE REQ'S

NO SCALE

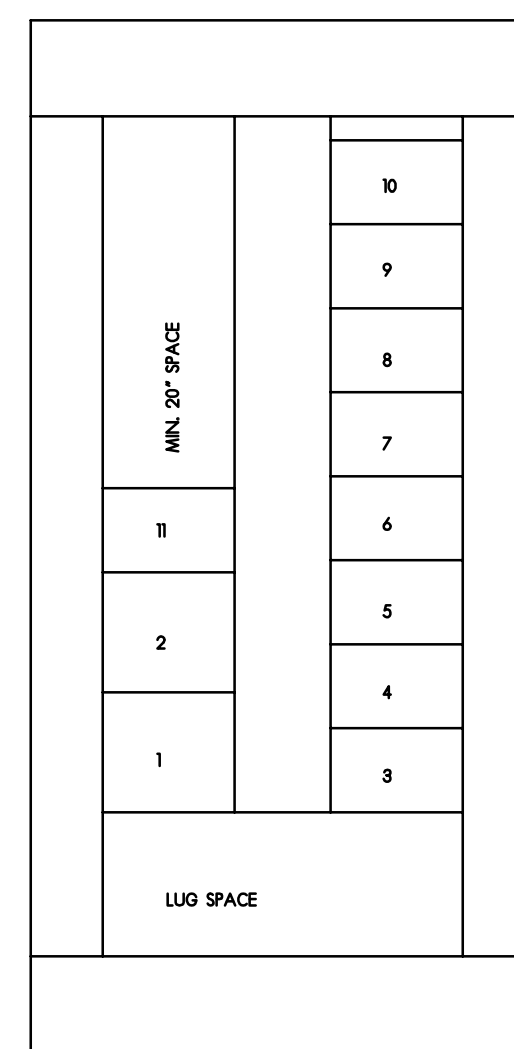
- DIMENSIONS:**
- A - 36" MIN(120/208V), 48" MIN(277/480V)
 - B - MIN 30" OR WIDTH OF THE EQUIPMENT
 - C - MIN 66" WORKING SPACE (OR TO HEIGHT OF THE EQUIPMENT)
 - D - 60" DEDICATED ELEC. SPACE UNLESS STRUCTURAL CEILING EXISTS.

NOTES:

1. CONTRACTOR SHALL INSURE ACCESS, ELECTRICAL WORKING SPACE & DEDICATED ELECTRICAL SPACE AROUND ELECTRICAL EQUIPMENT IN COMPLIANCE WITH NEC 110.26. INTERIOR INSTALLATIONS REQUIRE BOTH DEDICATED ELECTRICAL SPACE AND WORKING SPACE.
2. DEDICATED ELECTRICAL SPACE IS LIMITED TO ELECTRICAL EQUIPMENT WITHIN THAT SPACE ONLY. (I.E. NO DUCTS OR PIPING)
3. 6' DEDICATED ELECTRICAL SPACE ABOVE THE 6'6" WORKING SPACE CAN BE LOWER IF STRUCTURAL CEILING SPACE EXISTS.
4. WORKING SPACE IS REQ'D TO BE CLEAR AT ALL TIMES, NOT TO BE USED FOR STORAGE.
5. OTHER EQUIPMENT CANT BE INSTALLED THAT ENCLOSES UPON THE WORKING SPACE.

- SERVICE GROUNDING SYSTEM NOTES:**
1. THE GROUNDING ELECTRODE CONDUCTORS (GEC) SHALL BE SIZED PER NEC 250.66. THE GEC SHALL BE CONNECTED TO AN APPROVED GROUNDING ELECTRODE.
 2. GROUND CONDUCTORS TO OTHER POINTS AND EQUIPMENT, AS REQ'D BY NEC, ARTICLE 250 OR PROJECT SPECIFICATIONS.
 3. SERVICE ENTRANCE CONDUCTORS (UNGROUND) WITH GROUNDED (SERVICE) CONDUCTOR.
 4. MAIN BONDING JUMPER, SIZED AS PER NEC 250.28(D)
 5. EQUIPMENT GROUNDING CONDUCTOR (EGC)
 6. GROUNDED NEUTRAL CONDUCTOR.
 7. GROUND ROD ELECTRODE - 3/4"X10'-0" COPPER CLAD ROD ELECTRODE CONDUCTOR - #6 CU PER NEC 250.66(A)
 8. WATER LINE CONNECTION SHALL BE MADE WITHIN 5' OF BLDG WATER SERVICE ENTRANCE PER NEC 250.52(A)(1).
 9. METAL WATER PIPING AND STRUCTURAL STEEL NOT INTENTIONALLY GROUNDED SHALL BE BONDED PER NEC 250.104(A) AND 1250.66
 10. OTHER METAL PIPING (GAS, ETC) SHALL BE BONDED AS PER NEC 250.104(B) AND 1250.122.
 11. EGC FOR SEPARATELY DERIVED SYSTEM TRANSFORMER. REFER TO SINGLE LINE DIAGRAM FOR SIZE.
 12. SYSTEM BONDING JUMPER FOR SEPARATELY DERIVED SYSTEM TRANSFORMER. SYSTEM BONDING JUMPER FACTORY PROVIDED WITH EQUIPMENT.
 13. SUPPLY SIDE EQUIPMENT BONDING JUMPER - PER NEC 250.92(A). THE NON CURRENT CARRYING METALLIC PARTS OF SERVICE RACEWAYS SHALL BE BONDED. BONDING METHODS SHALL BE IN ACCORDANCE WITH NEC 250.92(B).
 14. IF THIS PROJECT DOES NOT INCLUDE THE INSTALLATION OF THE MAIN ELECTRICAL ROOM GROUNDING ELECTRODE BUSBAR, THEN ALL CONDUCTORS SHOWN TO IT SHALL BE CONNECTED TO THE NORMAL POWER MAIN SWITCHBOARD NEUTRAL BUS.
 15. 1#500KCMIL INSULATED CU - 2'EWT.
 16. LOCATE INTERSYSTEM GROUNDING TERMINAL ADJACENT TO METER OR AS APPROVED BY THE AHI.

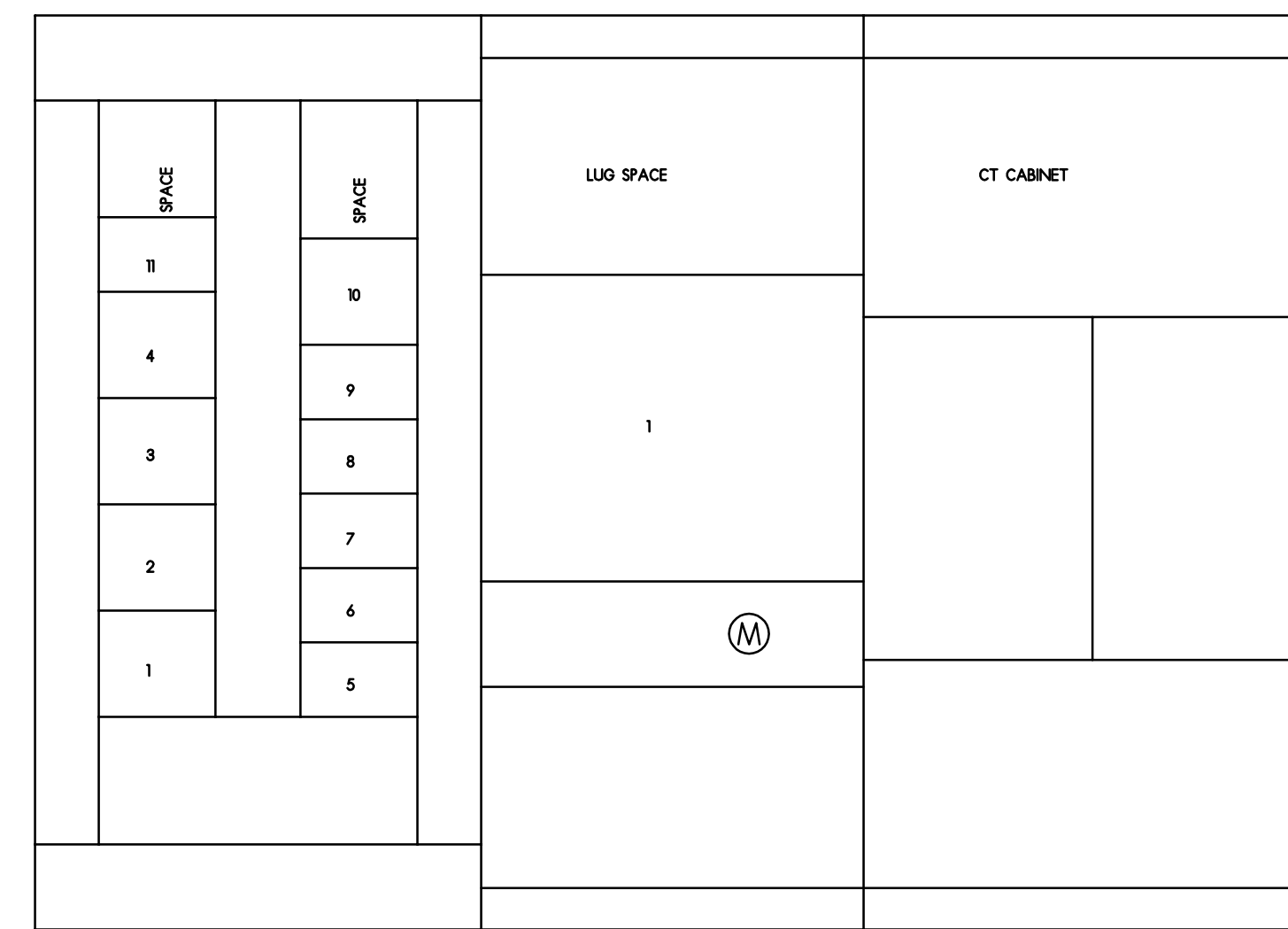
- PDP-HV ELEVATION/SCHEDULE**
- | BRKR # | LOAD DESCRIPTION | FRAME SIZE/TRIP SIZE |
|--------|------------------|----------------------|
| 1 | CH-1 | 600A/400A |
| 2 | CH-1 | 600A/400A |
| 3 | AH-1 | 100A/40A |
| 4 | AH-1 | 100A/40A |
| 5 | AH-2 | 100A/40A |
| 6 | AH-2 | 100A/40A |
| 7 | ACC-1 | 100A/30A |
| 8 | P-1 | 100A/25A |
| 9 | P-2 | 100A/25A |
| 10 | P-3 | 100A/25A |
| 11 | P-4 | 100A/25A |
- PDP-HV SHALL BE 1200A, 208/120V, 3PH, 4W RATED WITH INDICATED BREAKERS AND NO RATING OF 250A MINIMUM



PDP-HV ELEVATION/SCHEDULE

BRKR #	LOAD DESCRIPTION	FRAME SIZE/TRIP SIZE
1	CH-1	600A/400A
2	CH-1	600A/400A
3	AH-1	100A/40A
4	AH-1	100A/40A
5	AH-2	100A/40A
6	AH-2	100A/40A
7	ACC-1	100A/30A
8	P-1	100A/25A
9	P-2	100A/25A
10	P-3	100A/25A
11	P-4	100A/25A

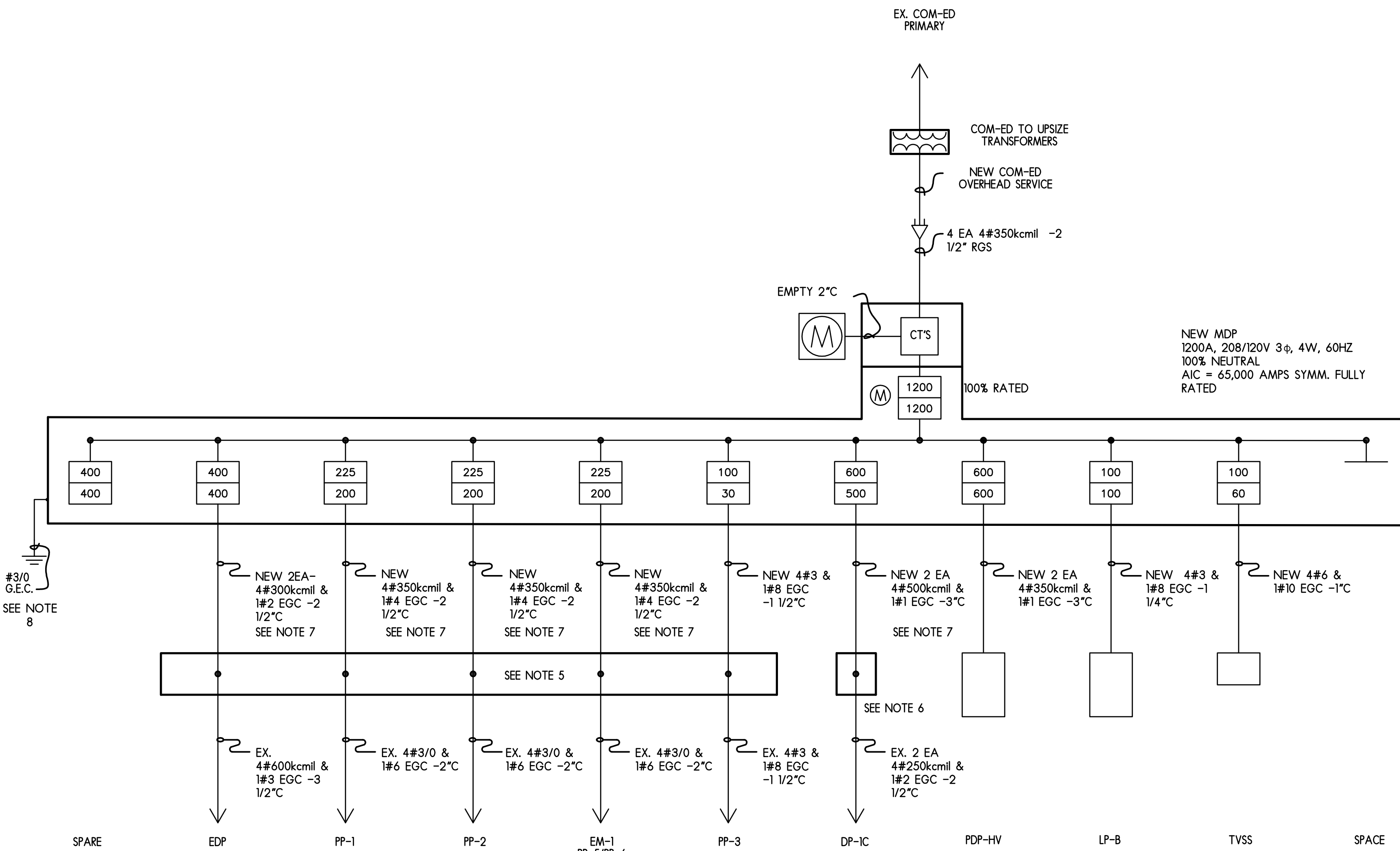
PDP-HV SHALL BE 1200A, 208/120V, 3PH, 4W RATED WITH INDICATED BREAKERS AND NO RATING OF 250A MINIMUM



MDP ELEVATION/SCHEDULE

BRKR #	LOAD DESCRIPTION	FRAME SIZE/TRIP SIZE
1	MAIN	1200A/1200A
2	DP-1C	600A/200A
3	DP-1C	600A/200A
4	SPACE	400A/40A
5	DP-1	400A/40A
6	EMT-PP-5/PP-6	225A/200A
7	PP-2	225A/200A
8	SPACE	225A/200A
9	PP-3	100A/30A
10	PP-1	225A/200A
11	YES	100A/30A

MDP SHALL BE 1200A, 208/120V, 3PH, 4W RATED WITH INDICATED BREAKERS AND NO RATING OF 250A MINIMUM

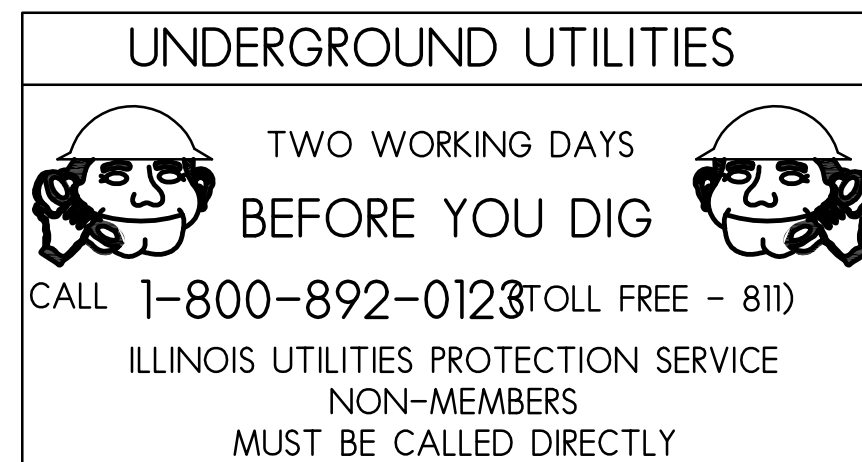


SINGLE LINE DIAGRAM

NO SCALE

NOTES:

1. GROUND ALL ELECTRICAL EQUIPMENT PER N.E.C. ARTICLE 250.
2. ALL CONDUCTOR SIZES SHOWN ARE COPPER THHN/THWN 75 DEG C.
3. ALL CONDUIT SHALL BE EMT INTERIOR AND RGS EXTERIOR.
4. LABEL THE NEW MDP WITH THE AVAILABLE FAULT CURRENT IN CONFORMANCE WITH NEC 110.24
5. THE EXISTING MAIN SWITCHBOARD (MSB) SHALL BECOME JUNCTION BOX. EXTEND FEEDERS FROM NEW MDP TO MSB AND PRICE FEEDERS WITHIN MSB. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING FEEDER SIZE AS COMPARED TO THE PROPOSED NEW OVERCURRENT DEVICE PROTECTING THE FEEDER AND MAKE THE APPROPRIATE CORRECTIONS AS COORDINATED WITH THE ENGINEER OF RECORD.
6. THE EXISTING DP-1C DISCONNECT SHALL BECOME JUNCTION BOX. EXTEND FEEDERS FROM NEW MDP TO THE DP-1C DISCONNECT AND PRICE FEEDERS WITHIN SWITCH ENCLOSURE. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING FEEDER SIZE AS COMPARED TO THE PROPOSED NEW OVERCURRENT DEVICE PROTECTING THE FEEDER AND MAKE THE APPROPRIATE CORRECTIONS AS COORDINATED WITH THE ENGINEER OF RECORD.
7. THE INDICATED FEEDER HAS BEEN SIZED TO ACCOMMODATE THE EXCESSIVE BOILER ROOM TEMPERATURES AT THE CEILING.
8. BOND ALSO TO WATER SUPPLY PIPING. VERIFY ON SITE FOR OPTIMUM CONNECTION
9. LOCATION. COORDINATE WITH THE ARCHITECT/ENGINEER.



ELECTRICAL SINGLE LINE DIAGRAM AND DEAILS

SCALE:

NTS

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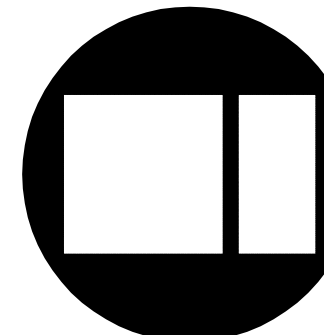
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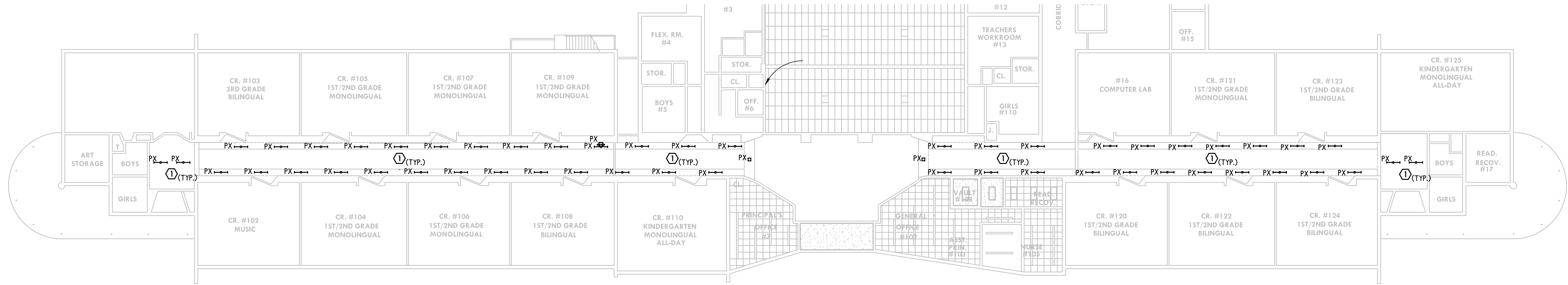
ISSUED FOR:	DATE:
OWNER REVIEW	12-17-2021
DRAWN	APPROVED
EP	AB

DATE: 12-17-2021	PROJECT NUMBER
31029-02	SHEET NUMBER
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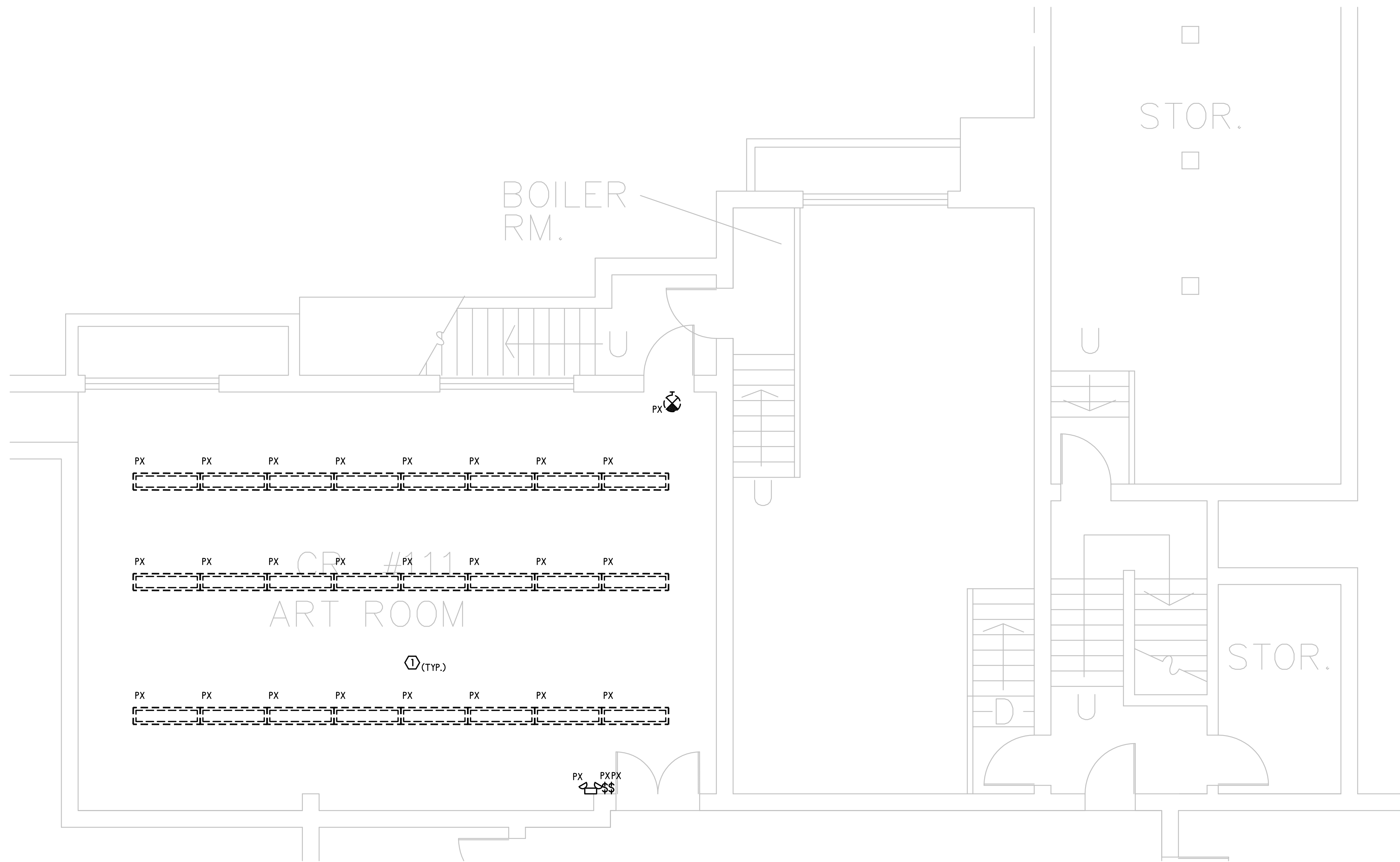
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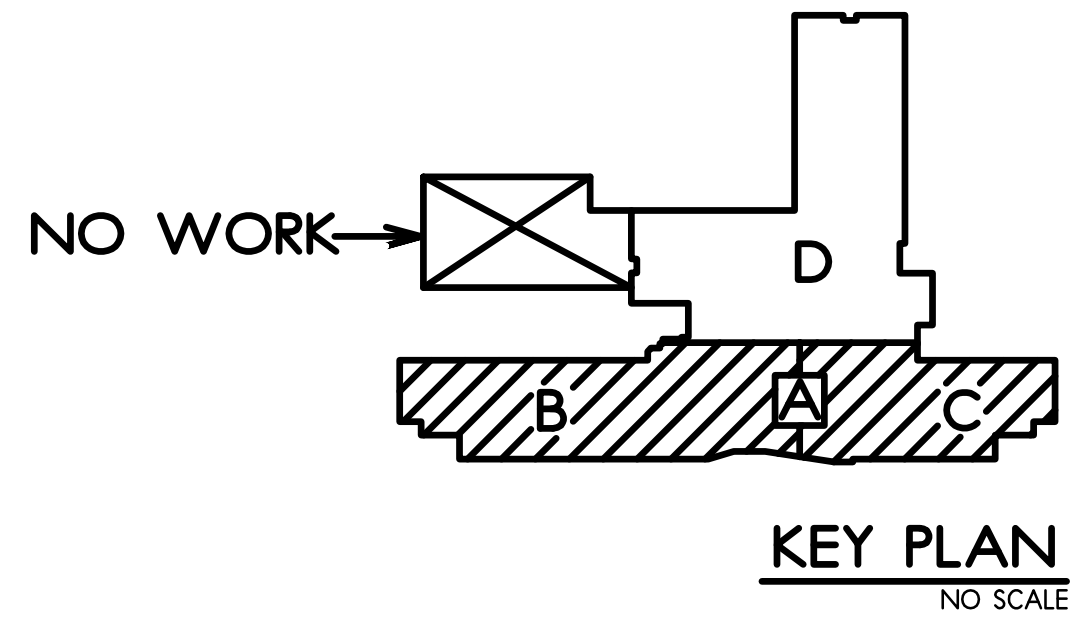




1 FIRST FLOOR LIGHTING DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

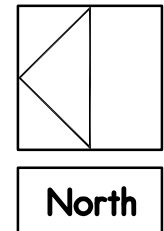


2 BASEMENT LIGHTING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

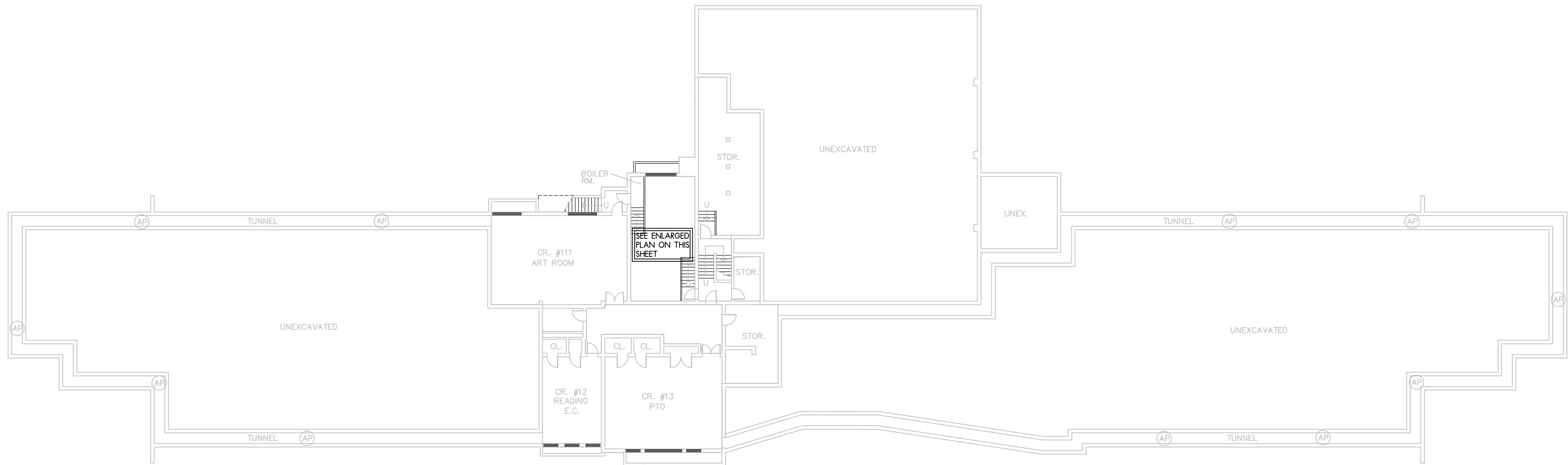


ELECTRICAL - BASEMENT
& FIRST FLOOR LIGHTING
DEMOLITION PLAN

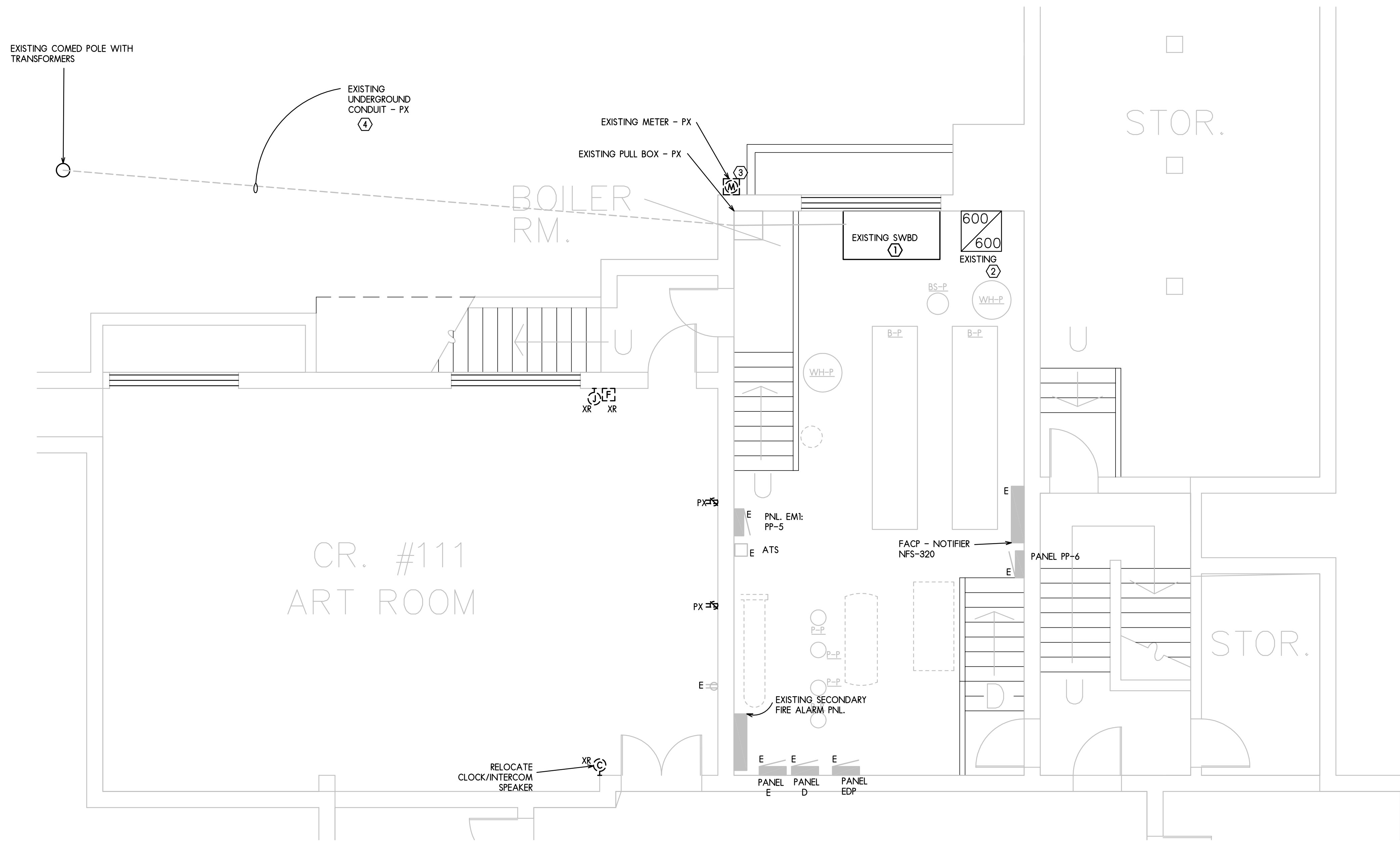
SCALE: 1/8" = 1'-0"



KEYED NOTES:
① DISCONNECT AND REMOVE EXISTING LIGHTING AS INDICATED
INCLUDING EXISTING BRANCH CIRCUIT BACK TO SOURCE PANEL.



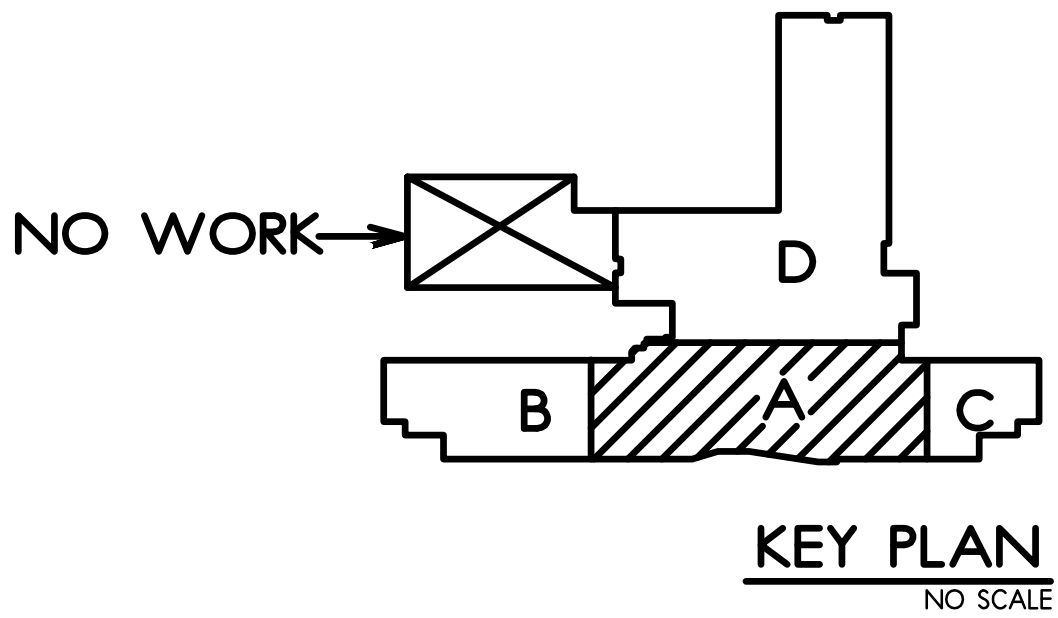
1 BASEMENT DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



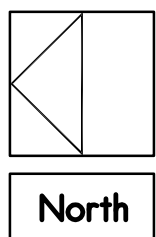
2 ENLARGED MECHANICAL ROOM DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES:

- EXISTING MSB (MAIN SWITCHBOARD). DISCONNECT AND REMOVE ALL EXISTING FUSED SWITCHES AND INTERNAL BUSSING, ETC. MSB ENCLOSURE TO BECOME JUNCTION BOX FOR NEW FEEDERS TO EXISTING FEEDERS. PROVIDE BLANK COVER ON EACH SECTION. PROVIDE "JUNCTION BOX" LABEL ON FRONT. SEE SINGLE LINE DIAGRAM FOR MORE INFORMATION.
- EXISTING 600A DISCONNECT SWITCH. DISCONNECT AND REMOVE ALL INTERNAL FUSE HOLDERS AND SWITCH MECHANISM. ENCLOSURE TO BECOME JUNCTION BOX FOR NEW FEEDER TO EXISTING FEEDER. PROVIDE BLANK COVER ON ENCLOSURE. PROVIDE "JUNCTION BOX" LABEL ON FRONT. SEE SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING METER SOCKET.
- UPON COMPLETION OF NEW SERVICE, REMOVE EXISTING UNDERGROUND SERVICE CONDUCTORS FROM POLE TO EXISTING SWBD. REMOVES ANY EXPOSED RACEWAYS NO LONGER IN USE.



ELECTRICAL - BASEMENT
POWER DEMOLITION PLANS
SCALE: AS SHOWN



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APPROVED	AB

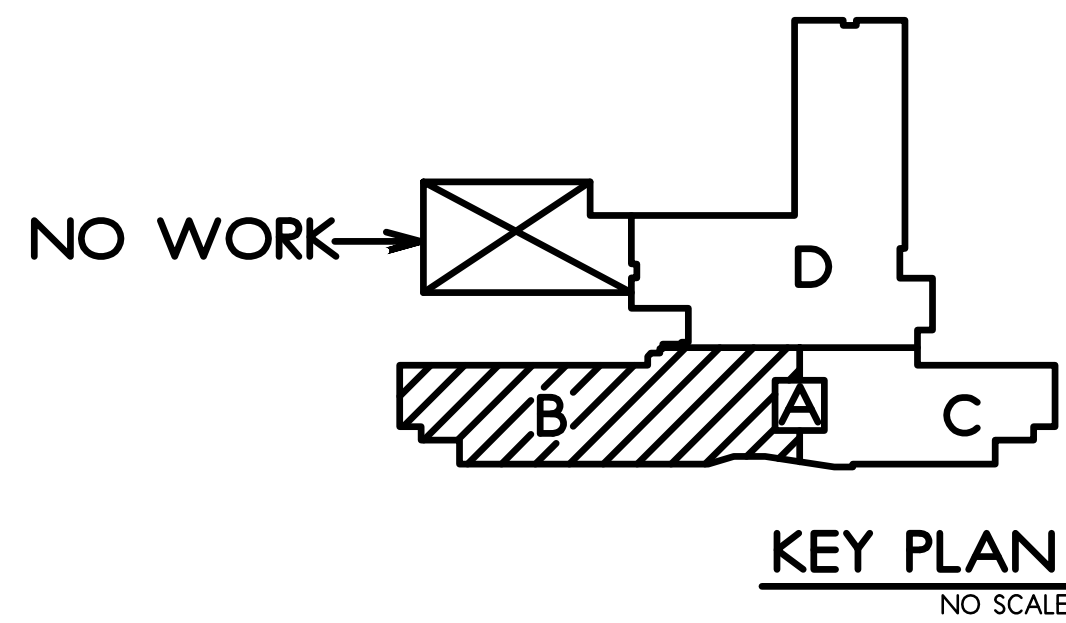
DATE: 12-17-2021	PROJECT NUMBER
31029-02	SHEET NUMBER
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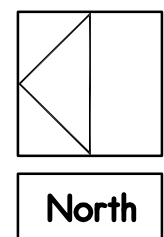
2 WEST FAN ROOM MEZZANINE DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

1 FIRST FLOOR AREA B DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



ELECTRICAL - FIRST FLOOR DEMOLITION PLANS

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



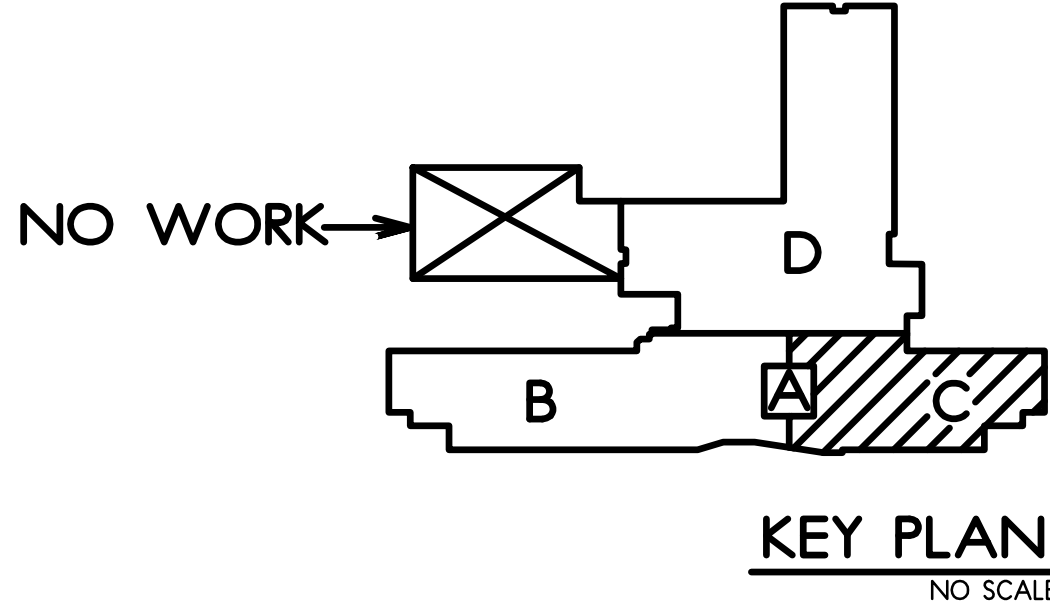
KEYED NOTES:

- ① DISCONNECT EXISTING HVAC UNIT FOR REMOVAL BY OTHERS. REMOVE BRANCH CIRCUIT TO SOURCE OF SUPPLY UNLESS IT SUPPLIES OTHER LOADS TO REMAIN. IF BRANCH CIRCUIT SUPPLIES OTHER LOADS REMOVE IT BACK TO LOAD TO REMAIN. UPON COMPLETION UPDATE PANEL SCHEDULES SUPPLYING DISCONNECTED LOADS.

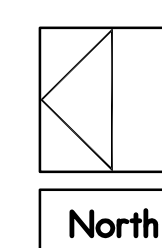




1 FIRST FLOOR AREA C DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



ELECTRICAL - FIRST FLOOR
DEMOLITION PLANS
SCALE: 1/8" = 1'-0"



KEYED NOTES:
1 DISCONNECT EXISTING HVAC UNIT FOR REMOVAL BY OTHERS. REMOVE BRANCH CIRCUIT TO SOURCE OF SUPPLY UNLESS IT SUPPLIES OTHER LOADS TO REMAIN. IF BRANCH CIRCUIT SUPPLIES OTHER LOADS REMOVE IT BACK TO LOAD TO REMAIN. UPON COMPLETION UPDATE PANEL SCHEDULES SUPPLYING DISCONNECTED LOADS.

DATE: 01-19-2022
PROJECT NUMBER
31029-02
SHEET NUMBER
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01-21-22
ISSUED FOR:
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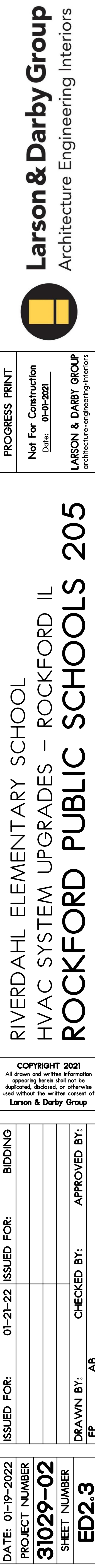
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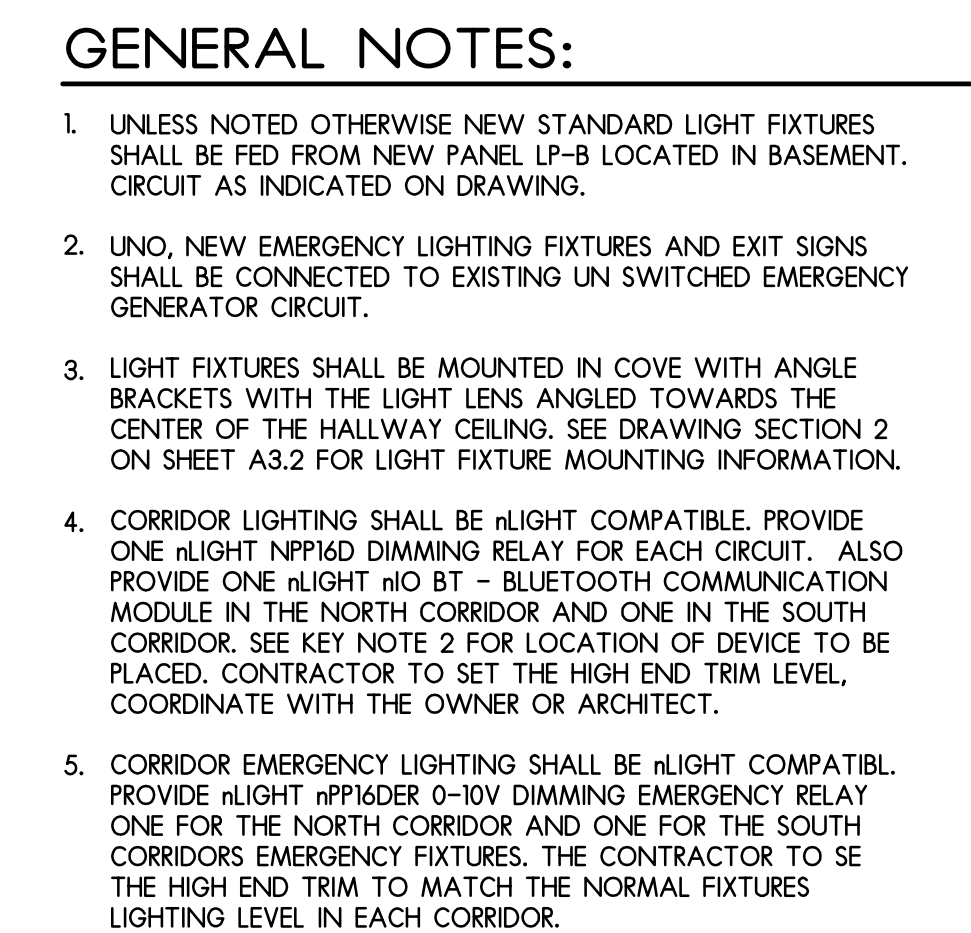
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RIVERDAHL ELEMENTARY SCHOOL
HVAC SYSTEM UPGRADES - ROCKFORD IL
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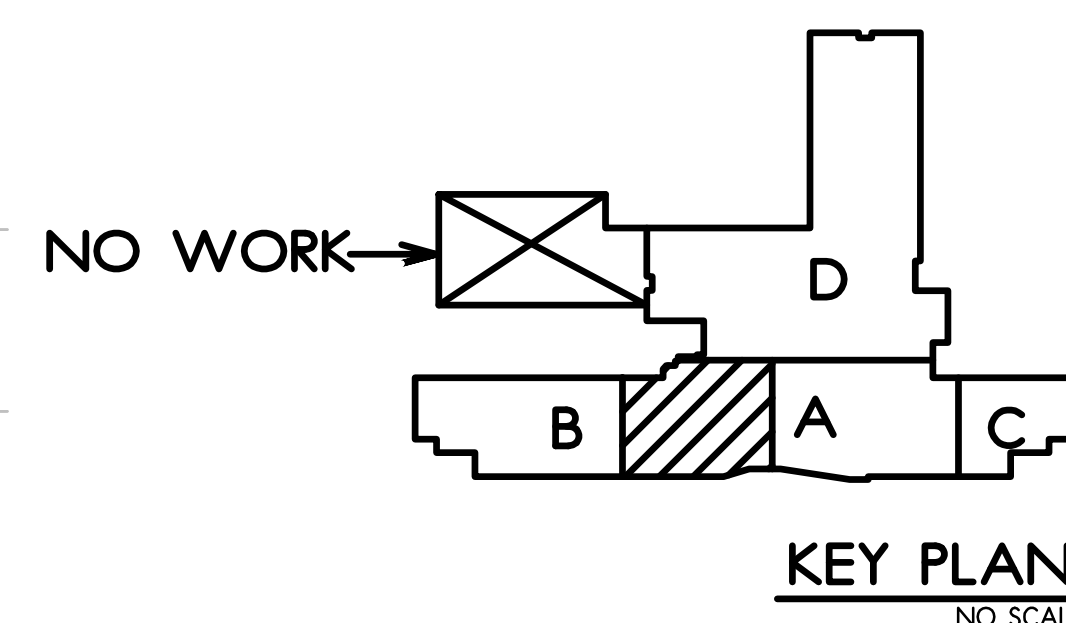
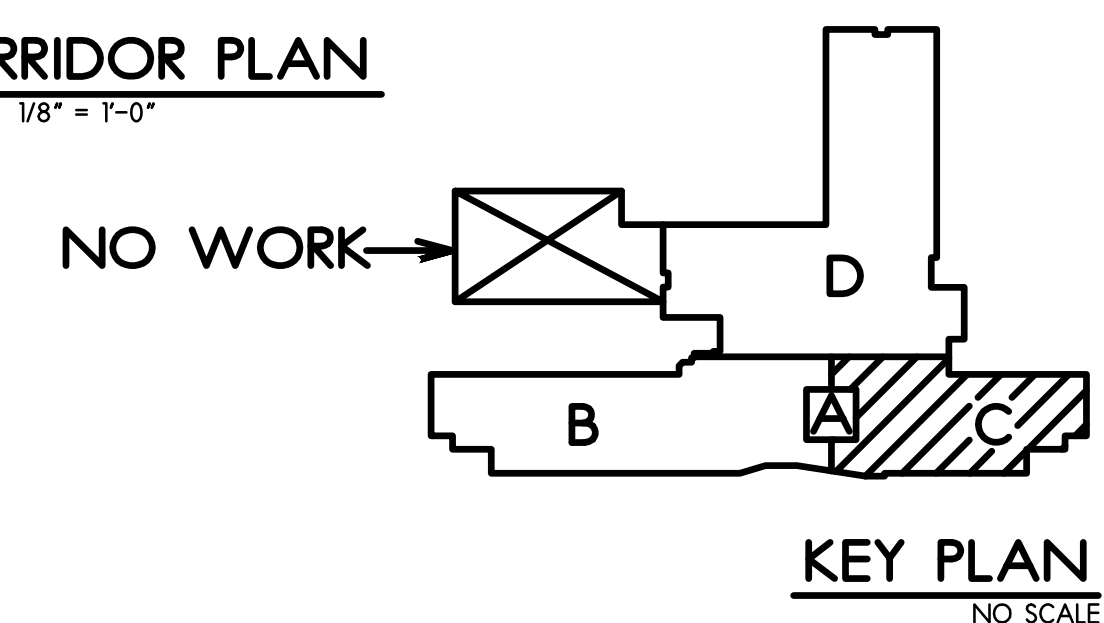
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KEY PLAN
NO SCALE

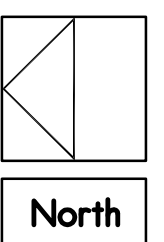


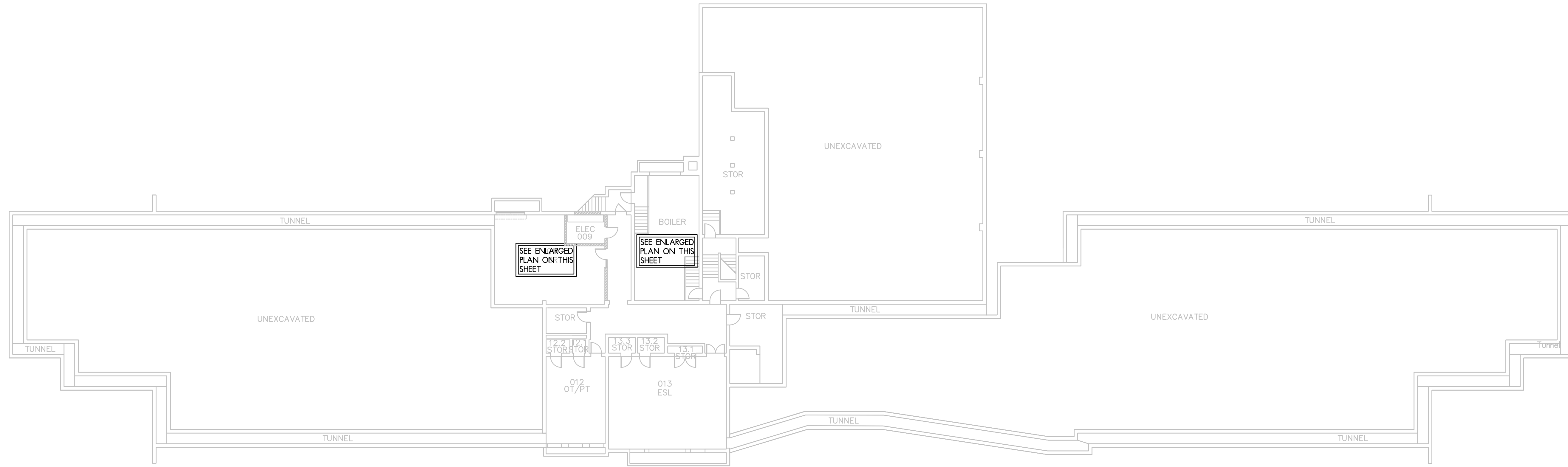
LIGHT FIXTURE SCHEDULE								
TAG	DESCRIPTION	MOUNTING	VOLTAGE	INPUT WATTS	LAMP TYPE	MANUFACTURER	CATALOG NUMBER	NOTES
A	2'X4' FLAT PANEL	GRID	120	45	LED	LITHONIA LIGHTING	EPANL 2'X4-4800LM 80CRI 40K MIN120 2T MVOLT NUGHT	
B	4 FT STRIP	SURFACE	120	35.3	LED	LITHONIA LIGHTING	CSL 48-4000LM 4000LM 40K 80CRI	
C	8 FT STRIP WITH ANGLE MOUNTING BRACKET	SURFACE	120	52.32	LED	LITHONIA LIGHTING	CLX196 6000LM SFF FDL N120 120 121 50K 80CRI WH	CLXSNGBKT
D	4 FT STRIP WITH ANGLE MOUNTING BRACKET	SURFACE	120	27.58	LED	LITHONIA LIGHTING	CLX148 3000LM SFF FDL N120 120 121 50K 80CRI WH	CLXSNGBKT
C1E	4 FT STRIP WITH ANGLE MOUNTING BRACKET, CONNECTED TO EMERGENCY GEN CIRCUIT	SURFACE	120	27.58	LED	LITHONIA LIGHTING	CLX148 3000LM SFF FDL N120 120 121 50K 80CRI WH	CLXSNGBKT
C2	2 FT STRIP WITH ANGLE MOUNTING BRACKET	SURFACE	120	14.58	LED	LITHONIA LIGHTING	CLX124 1500LM SFF FDL N120 120 121 50K 80CRI WH	CLXSNGBKT
D	4" ROUND CAN LIGHT	RECESSED	120	32.1	LED	LITHONIA LIGHTING	LDN4 50/3000 LDR LAR ISS 120 121 NPS80ZER	
DE	4" ROUND CAN LIGHT, CONNECTED TO EMERGENCY GEN. CIRCUIT	RECESSED	120	32.1	LED	LITHONIA LIGHTING	LDN4 50/3000 LDR LAR ISS 120 121 NPS80ZER	
EM	EMERGENCY LIGHT WITH BATTERY BACKUP	WALL	120	11	LED	LITHONIA LIGHTING	ELMAL7P1SDRT	
EX	EMERGENCY EXIT SIGN	UNV	120	4	LED	LITHONIA LIGHTING	LGM-S-W-3-R-120/277	
EX/EM	EMERGENCY EXIT SIGN/ EMERGENCY LIGHT	UNV	120	4	LED	LITHONIA LIGHTING	LHQM-LED-R-HO-SD	

NOTE

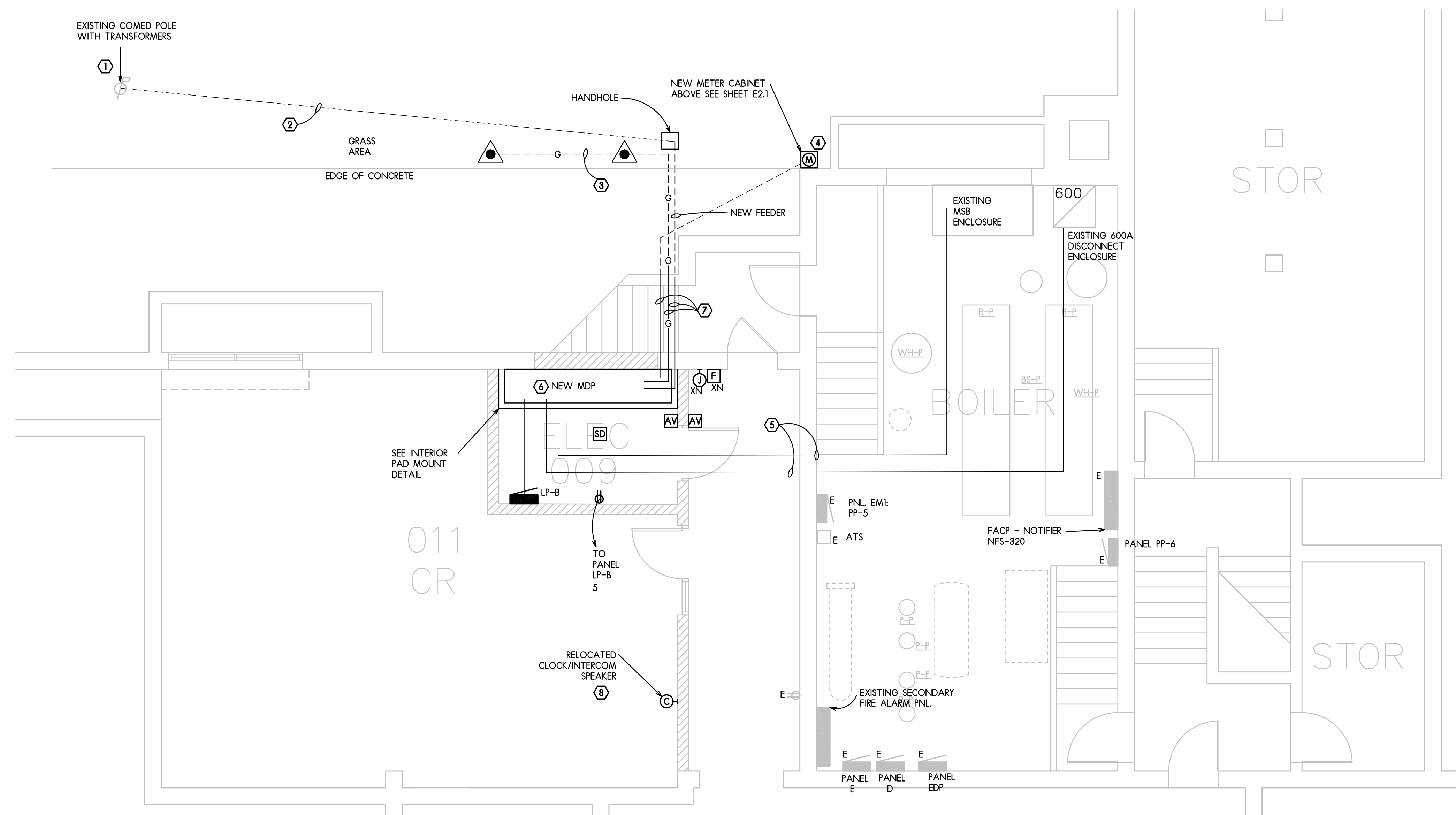
ELECTRICAL - BASEMENT & FIRST FLOOR LIGHTING NEW WORK PLANS

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

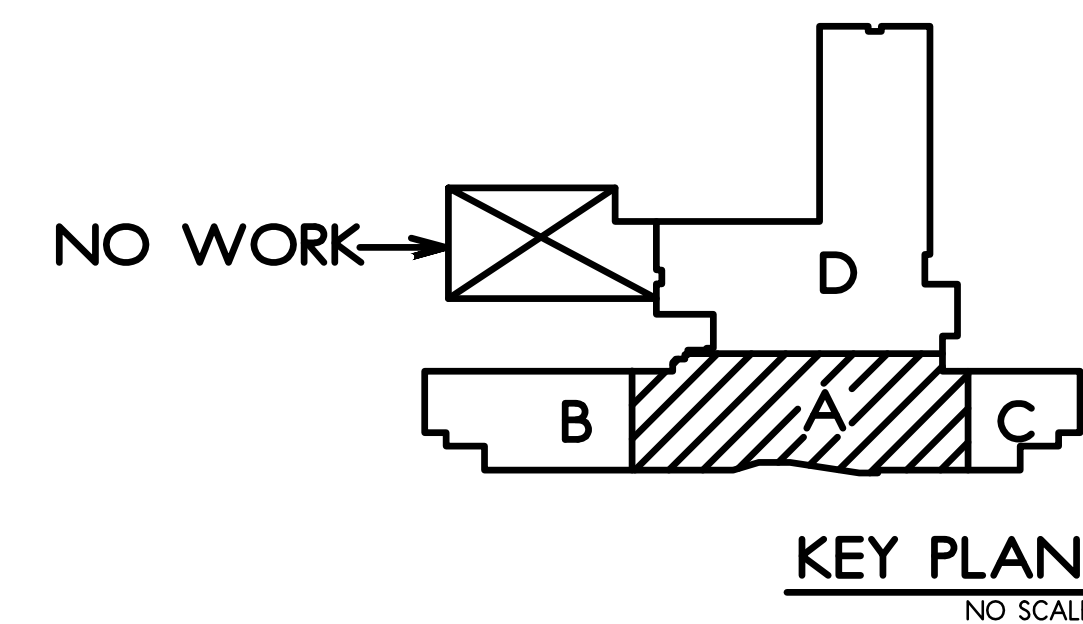




1 BASEMENT NEW WORK PLAN
SCALE: 1/8" = 1'-0"

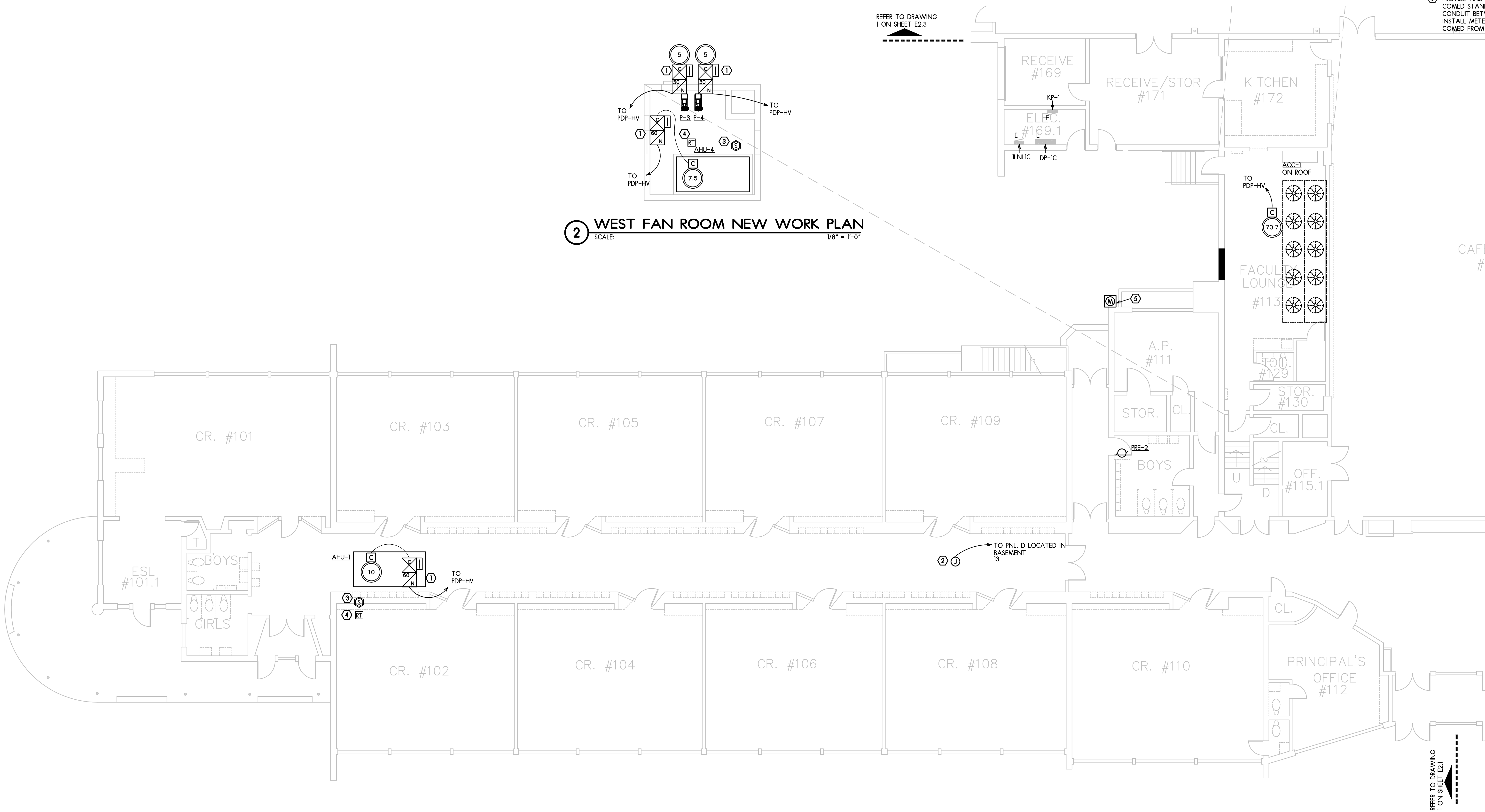


2 ENLARGED MECHANICAL ROOM NEW WORK PLAN
SCALE: 1/4" = 1'-0"



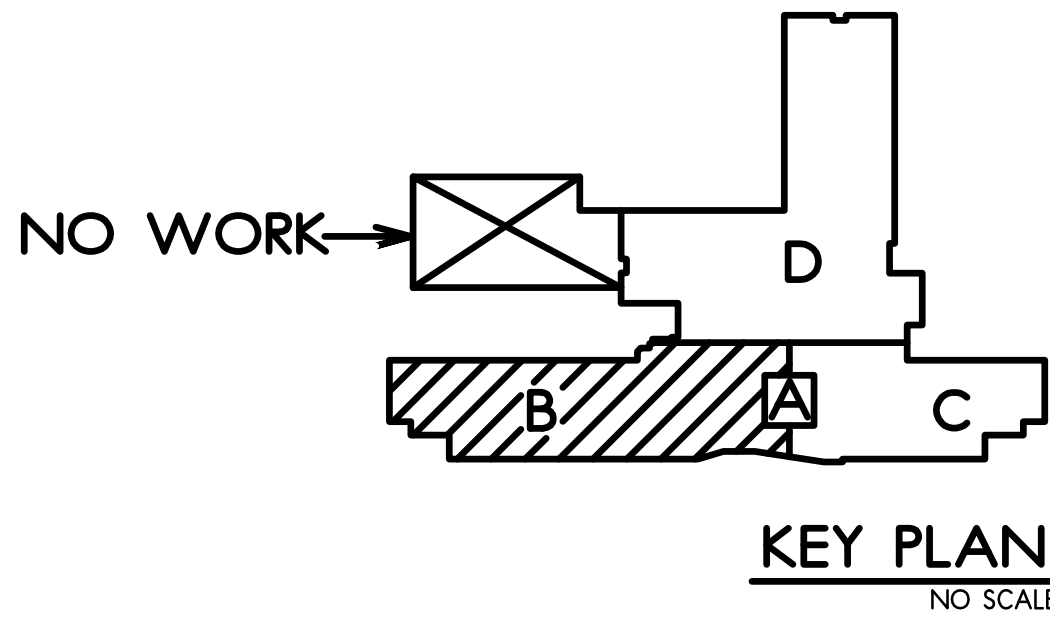
ELECTRICAL - BASEMENT
POWER NEW WORK PLANS
SCALE: AS SHOWN

- KEYED NOTES:
- EXISTING COMED TRANSFORMER POLE. COMED TO UPSIZE TRANSFORMERS. COORDINATE WORK WITH COMED.
 - THE EC SHALL TRENCH, BACKFILL AND FINISH GRADE TO MATCH FOR NEW UNDERGROUND SERVICE FROM COMED TRANSFORMER POLE TO NEW MDP. PROVIDE AND INSTALL NEW SERVICE ENTRANCE CONDUCTORS AND RACEWAY. SEE SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
 - SEE SERVICE GROUNDING WIRING DIAGRAM.
 - PROVIDE AND INSTALL NEW METER SOCKET TO COMPLY WITH COMED STANDARDS. PROVIDE AND INSTALL EMPTY 1/2" CONDUIT BETWEEN SOCKET AND CT CABINET. PROVIDE AND INSTALL METERING CONDUCTORS AS COORDINATED WITH COMED FROM CT CABINET TO NEW METER.
 - INTENDED ROUTING OF FEEDER FROM NEW MDP TO EXISTING MSB AND 600 AMP DISCONNECT SWITCH. FIELD COORDINATE FOR OPTIMUM ROUTING. PROVIDE JUNCTION BOXES AS NEEDED TO COMPLY WITH NEC.
 - NEW MDP. SEE MDP ELEVATION AND SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
 - SEE SHEET A14 DRAWING #7 FOR RACEWAY CROSSING STAIRWELL DETAIL. THE G.E.C. SHALL BE INSTALLED WITH IN 3/4" PVC BELOW SIDEWALK AND EXPOSED WITHIN STAIRWAY. TRENCH, BACKFILL AND FINISH SURFACES TO MATCH.
 - FOR RELOCATED DEVICE, EXTEND EXISTING CIRCUIT AS REQUIRED AND TO MATCH EXISTING. COORDINATE INSTALLATION/ RELOCATION IN FIELD WITH ARCHITECT/ENGINEER.



2 WEST FAN ROOM NEW WORK PLAN
SCALE: 1/8" = 1'-0"

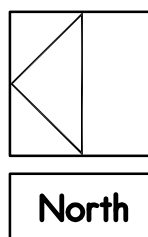
1 FIRST FLOOR AREA B NEW WORK PLAN
SCALE: 1/8" = 1'-0"



- KEYED NOTES:
- 1 FIELD LOCATE COMBINATION STARTER/DISCONNECT FOR OPTIMUM LOCATION WITH ARCHITECT/ENGINEER AND OWNER. SEE CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.
 - 2 FOR VAV BOXES, FIELD LOCATE J-BOX ABOVE CEILING, FOR OPTIMUM LOCATION WITH HVAC CONTRACTOR FOR NEW VAVR CONTROL POWER. CIRCUIT TO INDICATED PANEL & BRANCH CIRCUIT.
 - 3 THE EC SHALL PROVIDE THE DUCT SMOKE DETECTOR TO THE MC FOR INSTALLATION INTO THE RETURN. THE EC SHALL CIRCUIT DETECTOR TO THE F.A. PANEL IN THE BOILER ROOM AS REQUIRED AND AS COORDINATED WITH F.A. EQUIPMENT MANUFACTURER. THE T.C.C. SHALL CIRCUIT THE DETECTOR FOR FAN SHUT DOWN. THE EC SHALL COORDINATE WITH THE MC AND THE T.C.C.
 - 4 FIELD LOCATE THE SMOKE DETECTOR REMOTE TEST STATION FOR OPTIMUM LOCATION WITH ARCHITECT/ENGINEER AND OWNER AND WIRE AS PER MANUFACTURER RECOMMENDATIONS.
 - 5 PROVIDE AND INSTALL NEW METER SOCKET TO COMPLY WITH COMED STANDARDS. PROVIDE AND INSTALL EMPTY 1/2" CONDUIT BETWEEN SOCKET AND CT CABINET. PROVIDE AND INSTALL METERING CONDUCTORS AS COORDINATED WITH COMED FROM CT CABINET TO NEW METER.

ELECTRICAL - FIRST FLOOR
NEW WORK PLANS

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



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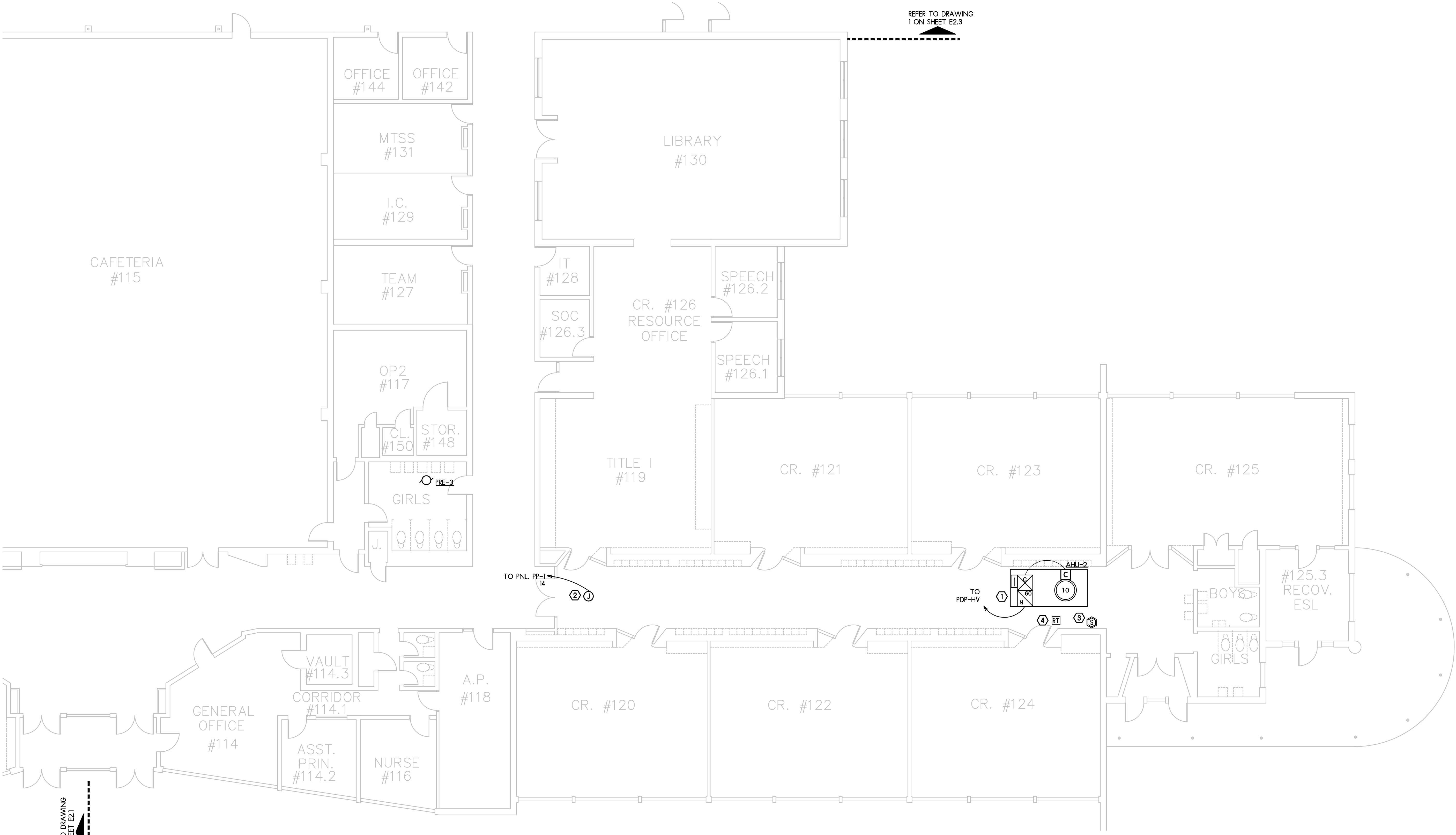
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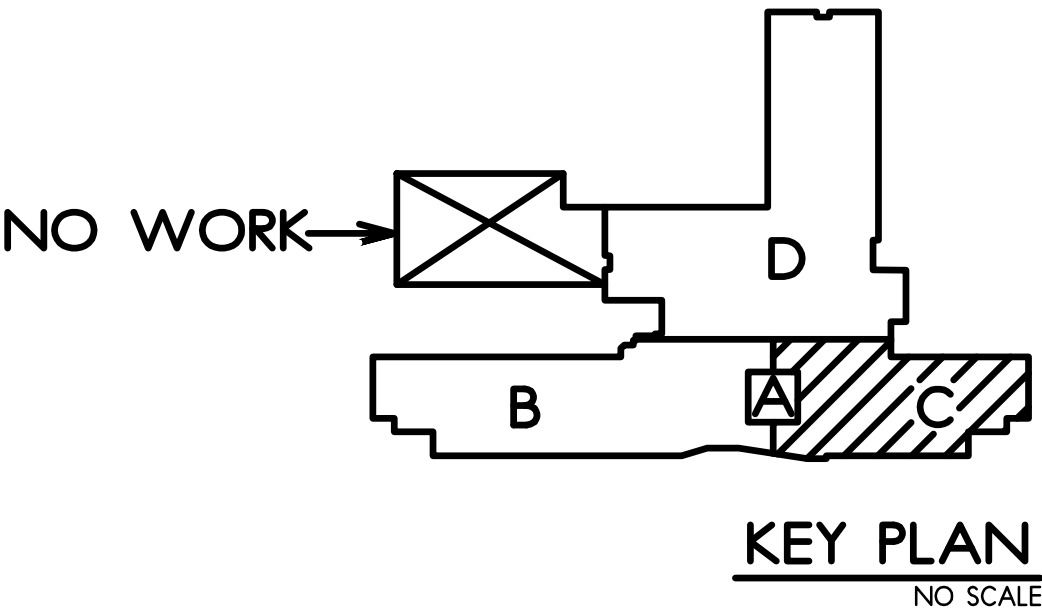
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KEYED NOTES:

- ① FIELD LOCATE COMBINATION STARTER/DISCONNECT FOR OPTIMUM LOCATION WITH ARCHITECT/ENGINEER AND OWNER. SEE CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.
- ② FOR VAV BOXES, FIELD LOCATE J-BOX ABOVE CEILING, FOR OPTIMUM LOCATION WITH HVAC CONTRACTOR FOR NEW VAVR CONTROL POWER. CIRCUIT TO INDICATED PANEL & BRANCH CIRCUIT.
- ③ THE EC SHALL PROVIDE THE DUCT SMOKE DETECTOR TO THE MC FOR INSTALLATION INTO THE RETURN. THE EC SHALL CIRCUIT DETECTOR TO THE F.A. PANEL IN THE BOILER ROOM AS REQUIRED AND AS COORDINATED WITH F.A. EQUIPMENT MANUFACTURER. THE T.C.C. SHALL CIRCUIT THE DETECTOR FOR FAN SHUT DOWN. THE EC SHALL COORDINATE WITH THE MC AND THE TCC.
- ④ FIELD LOCATE THE SMOKE DETECTOR REMOTE TEST STATION FOR OPTIMUM LOCATION WITH ARCHITECT/ENGINEER AND OWNER AND WIRE AS PER MANUFACTURER RECOMMENDATIONS.

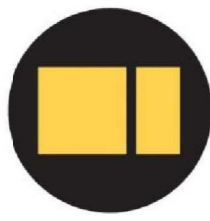
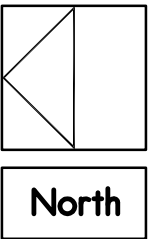


1 FIRST FLOOR AREA C NEW WORK PLAN
SCALE: 1/8" = 1'-0"

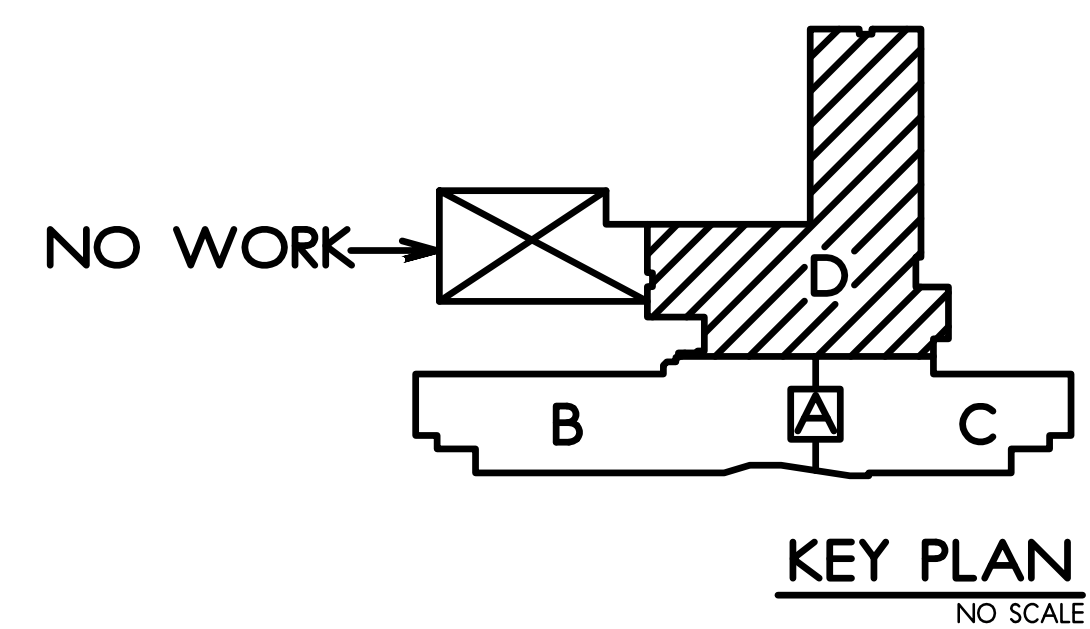


ELECTRICAL – FIRST FLOOR
NEW WORK PLANS

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



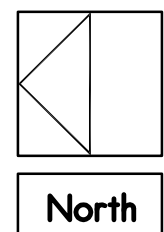
- ① FIELD LOCATE COMBINATION STARTER/DISCONNECT FOR OPTIMUM LOCATION WITH ARCHITECT/ENGINEER AND OWNER. SEE CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.
- ② FOR VAV BOXES, FIELD LOCATE 1-BOX ABOVE CEILING, FOR OPTIMUM LOCATION WITH HVAC CONTRACTOR FOR NEW VAVX CONTROL POWER. CIRCUIT TO INDICATED PANEL & BRANCH CIRCUIT.
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- ④ FIELD LOCATE THE SMOKE DETECTOR REMOTE TEST STATION FOR OPTIMUM LOCATION WITH ARCHITECT/ENGINEER AND OWNER. RUN WIRE AS PER MANUFACTURER RECOMMENDATIONS.
- ⑤ REUSE EXISTING CIRCUITS TO FEED NEW EXHAUST FAN.
- ⑥ PROVIDE AND INSTALL NEW FEEDER FROM PANEL PDV-HV TO MDP. FIELD LOCATE ROUTING FOR OPTIMUM, INCLUDING



ELECTRICAL - FIRST FLOOR

NEW WORK PLANS

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



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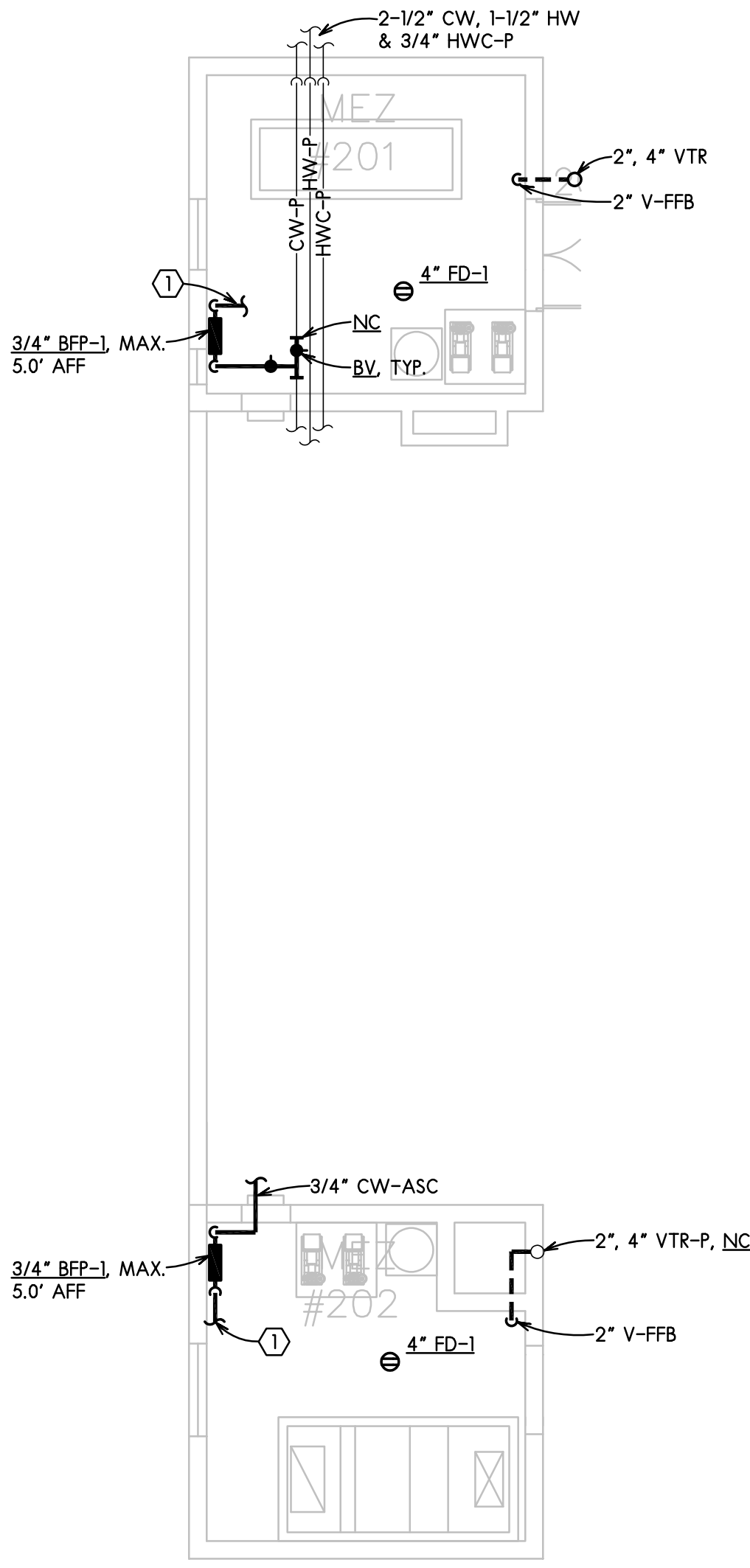
PLUMBING ABBREVIATIONS			
MARK	DESCRIPTION	MARK	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	HW	HOT WATER
ASC	ABOVE SUSPENDED CEILING	NC	NEW CONNECTION
BFP	BACKFLOW PREVENTER	P	PRESENT
BV	BALL VALVE	SA	SANITARY SEWER
CO	CLEANOUT	SAO	SANITARY SEWER-OVERHEAD
CTC	CLOSE TO CEILING	SS	SERVICE SINK
CW	COLD WATER	TAF	TO ABOVE FLOOR
D	DROP	TBF	TO BELOW FLOOR
FAF	FROM ABOVE FLOOR	TFA	TO FLOOR ABOVE
FBF	FROM BELOW FLOOR	TFB	TO FLOOR BELOW
FCO	FLOOR CLEANOUT	UG	UNDERGROUND
FD	FLOOR DRAIN	V	VENT PIPING
FFA	FROM FLOOR ABOVE	VTR	VENT THROUGH ROOF
FS	FLOOR SINK	W	WASTE PIPING

PLUMBING SYMBOLS		
ABBREVIATION	SYMBOL	DESCRIPTION
CW		COLD WATER PIPE
HW		HOT WATER PIPE
HWC		HOT WATER CIRCULATING PIPE
SAO		SANITARY SEWER - OVERHEAD
V		VENT PIPE
VTR		VENT THROUGH ROOF
		RISE TO OR FROM FLOOR ABOVE - TEE
		RISE TO OR FROM FLOOR ABOVE - ELBOW
		RISE OR DROP - ELBOW
		BRANCH - TOP CONNECTION
NC		NEW CONNECTION
CO		CLEANOUT - EXPOSED
FD		FLOOR DRAIN
BV		BALL VALVE

PLUMBING PIPING LEGEND	
	NEW PIPING
	PRESENT PIPING TO REMAIN ("P")
	PRESENT PIPING TO BE REMOVED ("PX")

PLUMBING GENERAL NOTES:

- DRAWINGS ARE GENERALLY DIAGRAMMATIC. EACH CONTRACTOR SHALL MAKE REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND THE BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- EACH CONTRACTOR SHALL CHECK DRAWINGS OF THE OTHER CONTRACTORS TO VERIFY SPACES IN WHICH THEIR WORK WILL BE INSTALLED IS CLEAR OF OBSTRUCTIONS. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS IN THE BUILDING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION.
- WHERE THERE IS EVIDENCE THAT THE WORK OF ONE CONTRACTOR WILL INTERFERE WITH THE WORK OF OTHER CONTRACTORS, EACH CONTRACTOR SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS.
- ALL WATER LINES SHALL DRAIN COMPLETELY THROUGH LOWER FIXTURES, UNIONS, BRASS CAP OR PLUG AT LOW POINTS AND MUST VENT COMPLETELY THROUGH FIXTURE ABOVE OR AIR VENT.
- PRESENT PAINTED CONSTRUCTION WHICH IS MARKED SHALL BE REPAINTED SAME AS NEW CONSTRUCTION.
- THESE DRAWINGS ARE BASED UPON INFORMATION OBTAINED FROM THE ORIGINAL DRAWINGS, AND BY VISUAL SURVEY WHERE POSSIBLE. THE CONTRACTOR SHALL CAREFULLY CONSIDER ALL INFORMATION PRESENTED ON THESE DRAWINGS; SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS. AND SHALL BE RESPONSIBLE FOR REPORTING ANY DISCREPANCIES DISCOVERED PRIOR TO SUBMITTING THEIR PROPOSAL. FAILURE TO DO SO WILL INDICATE A COMPLETE ACCEPTANCE OF ALL INFORMATION INDICATED HEREIN.
- CONTRACTOR IS ALLOWED TO MAKE MINOR CHANGES TO PIPING, ETC. FROM THAT SHOWN ON DRAWINGS AS REQUIRED TO AVOID FIELD CONFLICTS AT NO ADDITIONAL COST TO THE OWNER AND AS LONG AS THE RELOCATION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM.
- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS OF SPECIFIC REQUIREMENTS FOR PHASING AND SEQUENCING OF WORK. THESE NOTED REQUIREMENTS SHALL BE TAKEN INTO CONSIDERATION DURING THE BIDDING PROCESS.
- THE PRESENT PLUMBING SYSTEMS OF ANY TYPE, INCLUDING UTILITY SERVICES, SHALL NOT BE INTERRUPTED EXCEPT AS DIRECTED BY THE OWNER. WHEN SUCH INTERRUPTIONS ARE ALLOWED, THE SYSTEM SHALL BE PUT BACK INTO OPERATION AS SOON AS POSSIBLE, BUT NO LATER THAN AT THE END OF THE NORMAL WORKING DAY, UNLESS SPECIFIC DIRECTION IS OTHERWISE GIVEN.
- CONTRACTOR SHALL VERIFY ALL PRESENT CONDITIONS INCLUDING, BUT NOT LIMITED TO, PIPE SIZES, LOCATIONS, INVERTS, TEMPERATURES, ELEVATIONS, PRESSURES, ETC. PRIOR TO START OF CONSTRUCTION AND MAKE MODIFICATIONS FOR WORK SHOWN AS REQUIRED TO ACCOMMODATE PRESENT OR NEW CONSTRUCTION. ALL AT NO INCREASE IN CONTRACT PRICE.
- THE INSTALLATION OF ALL PIPING SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS IT PERTAINS WITH CLEARANCE OF PIPING IN RELATIONSHIP TO ELECTRICAL SWITCHGEAR, ELECTRICAL EQUIPMENT, ELECTRICAL PANELS, ETC. PIPING SHALL NOT CROSS OVER THE TOP OF OR IMPINGE UPON ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING, INCLUDING CORE DRILLING, SAW CUTTING, ETC., AS REQUIRED TO ACCOMMODATE HIS WORK. ALL DISTURBED FLOOR AND WALL FINISHES SHALL BE RESTORED TO ORIGINAL CONDITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF PRESENT CEILINGS, LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PIPING, CONDUIT, ETC. AS REQUIRED FOR THE INSTALLATION OF THEIR WORK.
- CONTRACTOR SHALL PROVIDE RECORD DRAWINGS INDICATING THE LOCATION OF ALL PLUMBING SYSTEMS NOTED HEREIN.
- CONTRACTOR SHALL INSTALL HIS WORK IN ACCORDANCE WITH ALL LAWS, RULES, REGULATIONS, CODES, ETC. PER ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.
- CONTRACTOR SHALL WARRANTY HIS SYSTEMS FOR A PERIOD OF ONE (1) YEAR.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT ITEMS.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS, ETC. AS REQUIRED FOR HIS WORK.
- CONTRACTOR SHALL TEST ALL SYSTEMS PER APPLICABLE CODE.
- CERTAIN PREFIXES OR LINE SYMBOLS, WHEN APPLIED TO PRESENT LINE, DEVICE OR EQUIPMENT, SHALL HAVE THE FOLLOWING MEANINGS:
 - NC: NEW CONNECTION TO EXISTING EQUIPMENT OR MATERIAL.
 - P: PRESENT, TO REMAIN UNCHANGED.
 - PX: PRESENT, TO BE COMPLETELY REMOVED INCLUDING UNNEEDED CONNECTIONS, PIPING, DUCTWORK, CONTROL WIRING, THERMOSTATS, BASES, ETC. OF EVERY KIND. PIPING SHALL BE REMOVED SUCH THAT NO DEAD-ENDS ARE LEFT ON THE WATER SYSTEMS. UNUSED OPENINGS PLUGGED OR CAPPED, TESTED, COVERED, PAINTED SAME AS NEW WORK. OTHER DISTURBED WORK OF EVERY KIND RESTORED, PATCHED, TESTED, COVERED, PAINTED, ETC. TO EQUAL ORIGINAL CONDITION. REMOVED MATERIALS SHALL NOT BE REUSED UNLESS OTHERWISE SPECIFIED OR DIRECTED BY ARCHITECT/ENGINEER.
 - VL: VERIFY EXACT LOCATION IN FIELD. THIS NOTE APPLIES TO ALL PRESENT OR EXISTING UTILITIES AND CONSTRUCTION WHETHER CALLED FOR OR NOT.



1 PLUMBING MEZZANINE FLOOR PLAN
SCALE: 1/8" = 1'-0"

BACKFLOW PREVENTER SCHEDULE

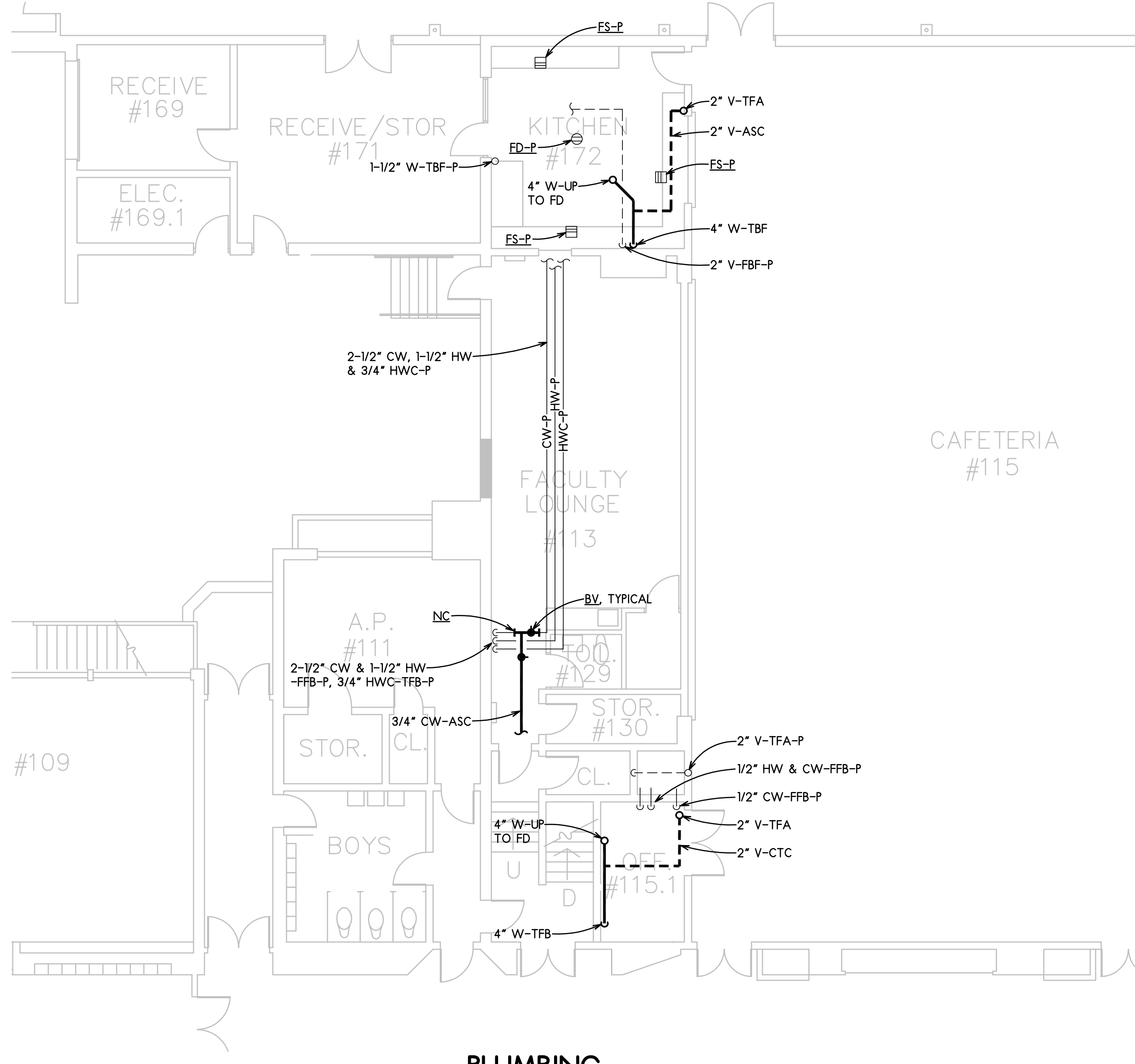
ACCEPTABLE MANUFACTURERS:
AMES, APOLLO, FEBCO, WATTS, WILKINS.

ITEMS:
BFP-1: REDUCED PRESSURE ZONE BACKFLOW PREVENTER, MAIN BODY AND ACCESS COVERS SHALL BE LOW LEAD BRONZE, SEAT RING AND INTERNAL POLYMERS SHALL BE NSF LISTED NORYL AND SEAT ELASTOMERS SHALL BE SILICONE. DEVICE SHALL BE NSF/ANSI 61 CERTIFIED AND ASSE 1013 LISTED, WITH FULL PORT UNION BALL VALVES, TEST COCKS, LEAD FREE BRONZE Y-TYPE STRAINER AND AIR GAP ASSEMBLY. WILKINS No. 975XL2U-5-AG.

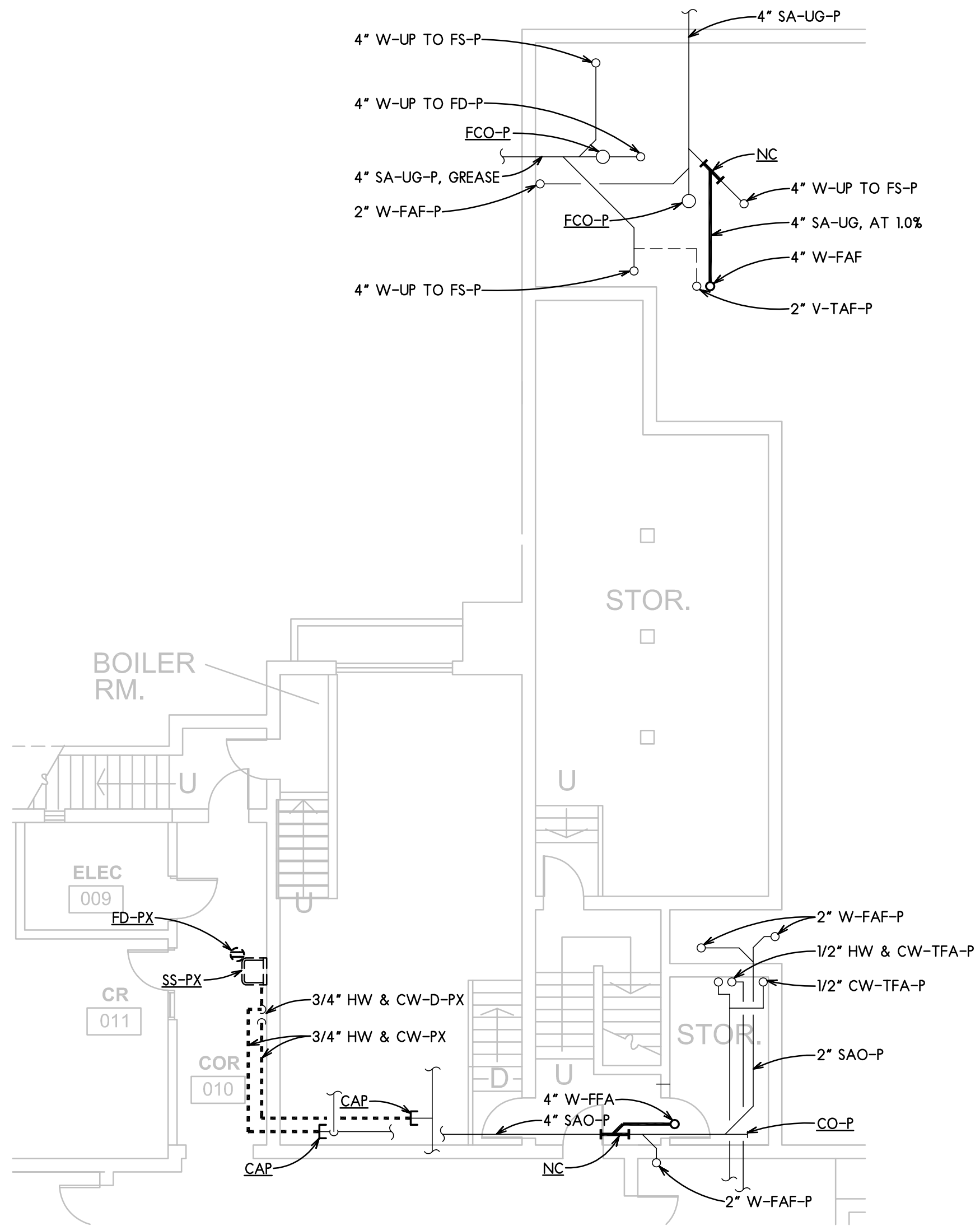
FLOOR DRAIN SCHEDULE

ACCEPTABLE MANUFACTURERS:
JOSAM, MIFAB, SMITH, WADE, ZURN.

ITEMS:
FD-1: CAST IRON FLANGE, SEDIMENT BUCKET, HEAVY DUTY GRATE SUPPORTED BY BUCKET, ROUND STRAINER, BOTTOM OUTLET, SEPARATE P-TRAP. ZURN No. Z-550-Y.



2 PLUMBING FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



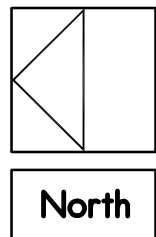
3 PLUMBING BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTES:

- CONNECT TO HVAC MAKE-UP WATER PIPING, COORDINATE WITH HVAC CONTRACTOR.

PLUMBING FLOOR PLANS

SCALE: AS NOTED



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01-21-22	
ISSUED FOR:	
01-21-22	
ISSUED FOR:	
01-21-22	
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APPROVED BY:	RAS

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