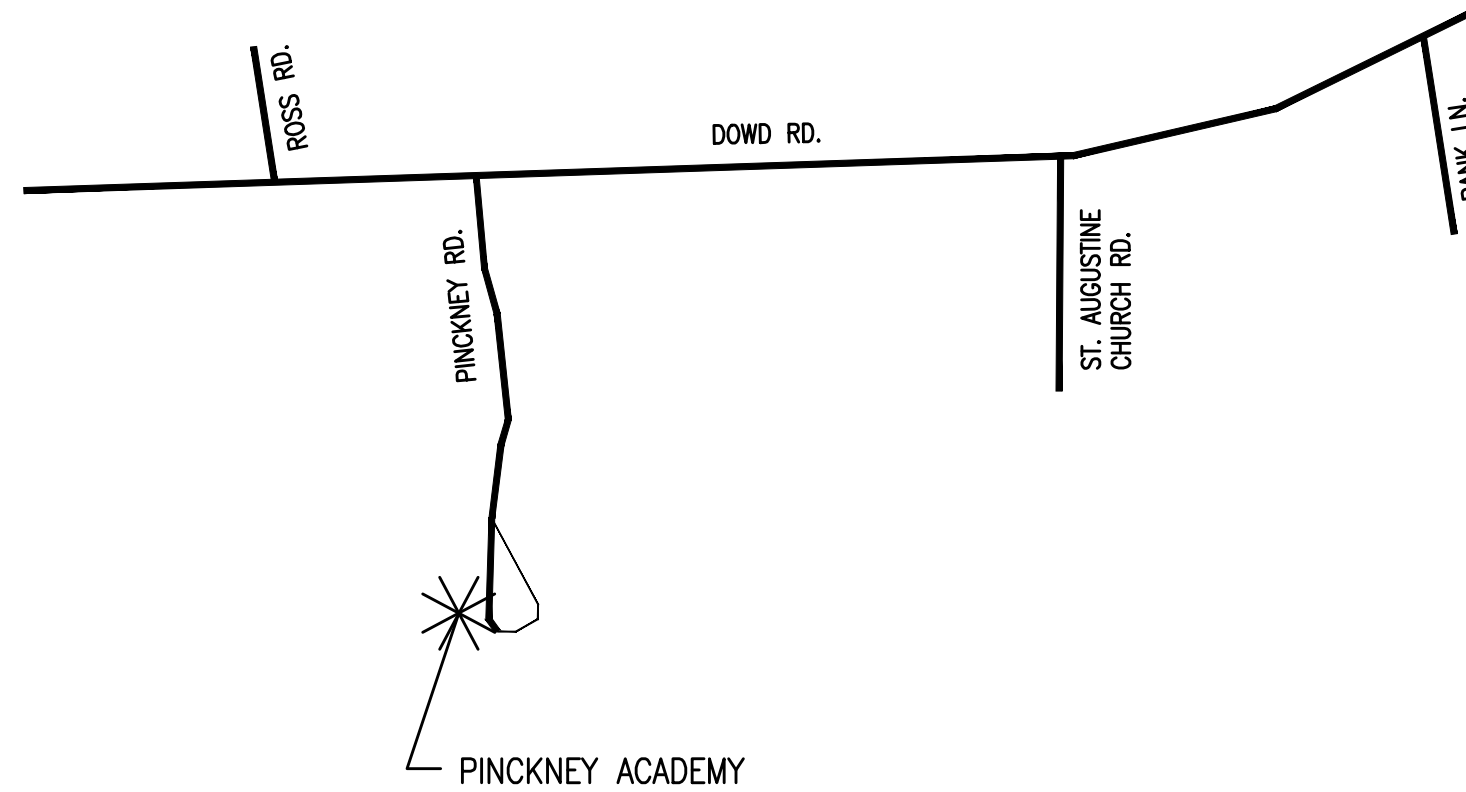


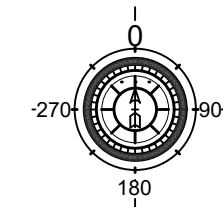
RENOVATIONS FOR BLDG 1 PINCKNEY ACADEMY

MOORE COUNTY SCHOOLS

MOORE COUNTY BOARD OF EDUCATION
DR. TIM LOCKLAIR, SUPERINTENDENT



VICINITY MAP
PINCKNEY ACADEMY
160 PINCKNEY RD
CARTHAGE, N.C. 28327



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List of Drawings	
SHEET	DESCRIPTION
C	COVER SHEET
G2.1	APPENDIX B
G3.1	LIFE SAFETY PLAN
A0.1	DEMOLITION PLAN
A0.2	ENLARGED TOILET DEMOLITION PLAN
A1.0	RENOVATION FLOOR PLAN
A1.1	REFLECTED CEILING PLAN
A1.2	ENLARGED RENOVATION PLANS
A2.0	EXTERIOR WALL ELEVATIONS
A3.0	WINDOW INFILL DETAILS
A5.0	INTERIOR ELEVATIONS
A6.0	DOOR AND FINISH SCHEDULES
A6.1	CONSTRUCTION DETAILS
P0.01	LEGEND, NOTES, SCHEDULES
P1.01	DEMOLITION PLANS
P1.11	RENOVATION PLANS
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M0.01	LEGEND, NOTES, SCHEDULES
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M6.01	HVAC CONTROLS DIAGRAMS
E0.01	LEGEND, NOTES, SCHEDULES
E1.01	POWER DEMOLITION PLANS
E1.02	LIGHTING DEMOLITION PLANS
E1.11	POWER RENOVATION PLANS
E1.21	LIGHTING RENOVATION PLANS
E6.01	RISER DIAGRAM AND PANEL SCHEDULES

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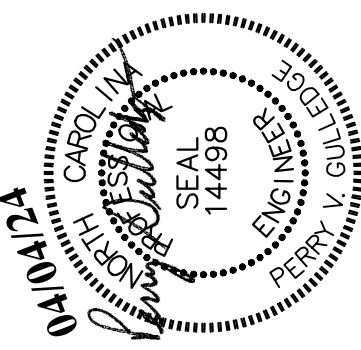
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RENOVATIONS FOR BUILDING 1

PINCKNEY ACADEMY
MOORE COUNTY SCHOOLS

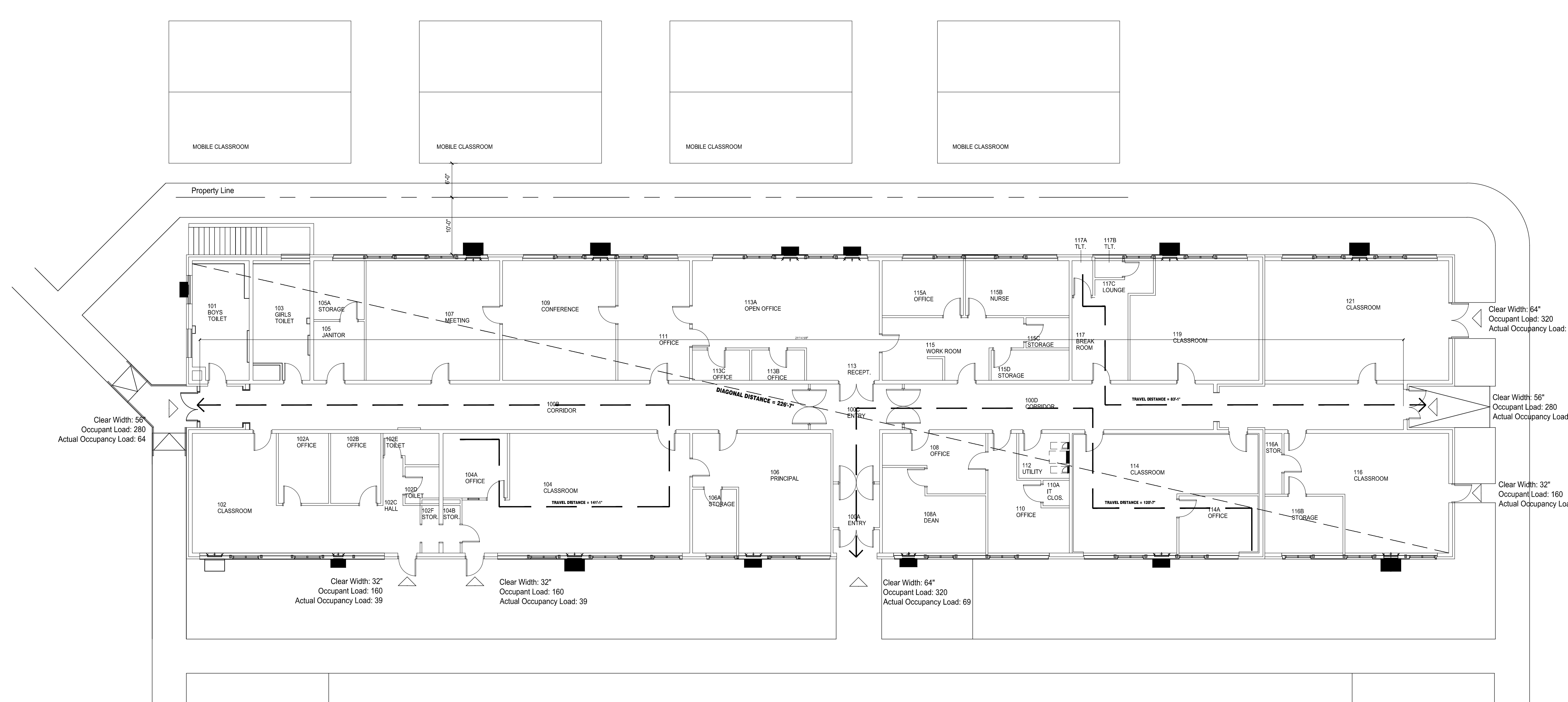
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C

FIXED SCALE REFERENCE

2313M.dwg - 2024/04/03



NORTH PROJECT **1** Overall Floor Plan
1/8" = 1'-0" (1:96)

EXIT REQUIREMENTS: Main Floor
NUMBER AND ARRANGEMENT OF EXITS:

FLOOR OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS REQUIRED	SHOWN ON PLANS	TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS (SECTION 1007.1.1)	
			EXIT ACCESS TRAVEL DISTANCE	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS (MIN)	ACTUAL DISTANCE SHOWN ON PLANS
Main Floor	2	7	200 FEET (Table 1017.2)	161'-7"	113'-4"	211'-9"

¹ CORRIDOR DEAD ENDS (SECTION 1020.4)
² STORES WITH ONE EXIT (TABLE 1009.2.1); SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY (TABLE 1009.3.2)
COMMON PATH OF EGRESS TRAVEL (SECTION 1009.2.1)

MEANS OF EGRESS SIZING:

USE GROUP OR SPACE DESCRIPTION	AREA 1 square feet	AREA PER OCCUPANT (TABLE 1004.1.2)	CALCULATED OCCUPANT LOAD (a)	EGRESS WIDTH PER OCCUPANT (SECTION 1005.3.1)		REQUIRED WIDTH (SECTION 1005.1)		EXIT WIDTH (in) 2,3,4,5,6		ACTUAL WIDTH SHOWN ON PLANS
				STAR	OTHER	STAR	OTHER	STAR	OTHER	
Main Floor	11,900 SF	Refer to GL1	309	0.3	0.2	N/A	61.8 IN	N/A	264 IN	

¹ SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE
² MINIMUM STAIRWAY WIDTH (SECTION 1005.3.1); MINIMUM CORRIDOR WIDTH (Table 1020.2)
MINIMUM DOOR WIDTH (SECTION 1005.3.2)
³ MINIMUM WIDTH EXIT PASSAGEWAY (SECTION 1024)
⁴ SEE SECTION 1005.6 FOR CONVERGING EGRESS
⁵ THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50 PERCENT OF THE TOTAL REQUIRED (SECTION 1009.5)
⁶ ASSEMBLY OCCUPANCIES (SECTION 1029)

Occupancy Load Summary

Rm No.	Room Name	Area	Table 1004.1.1 Area Allowance	Occupancy
100A	Entry	62 sf	100 sf gross	1
100B	Corridor	843 sf	100 sf gross	8
100C	Entry	204 sf	100 sf gross	1
100D	Corridor	692 sf	100 sf gross	7
101	Boys Toilet	191 sf	0	0
102	Classroom	520 sf	20 sf net	26
102A	Office	108 sf	100 sf gross	1
102B	Office	108 sf	100 sf gross	1
102C	Hall	29 sf	100 sf gross	1
102D	Toilet	35 sf	0	0
102E	Toilet	47 sf	0	0
102F	Storage	25 sf	300 sf gross	1
103	Girl's Toilet	189 sf	0	0
104	Classroom	742 sf	20 sf net	37
104A	Office	128 sf	100 sf gross	1
104B	Storage	25 sf	300 sf gross	1
105	Janitor	92 sf	300 sf gross	1
105A	Storage	92 sf	300 sf gross	1
106	Director's Office	416 sf	100 sf gross	4
106A	Storage	86 sf	300 sf gross	1
107	Meeting	492 sf	15 sf net	32
108	Office	153 sf	100 sf gross	1
108A	Director's Office	219 sf	100 sf gross	1
109	Conference	417 sf	15 sf net	27
110	Office	200 sf	100 sf gross	2
110A	Closet	20 sf	300 sf gross	1
111	Office	264 sf	100 sf gross	2
112	Utility	70 sf	300 sf gross	1
113	Reception	72 sf	100 sf gross	1
113A	Open Office	502 sf	100 sf gross	5
113B	Office	49 sf	100 sf gross	1
113C	Office	53 sf	100 sf gross	1
114	Classroom	539 sf	20 sf net	27
114A	Office	141 sf	100 sf gross	1
115	Workroom	238 sf	15 sf net	15
115A	Office	137 sf	100 sf gross	1
115B	Nurse	175 sf	100 sf gross	2
115C	Storage	40 sf	300 sf gross	1
115D	Storage	72 sf	300 sf gross	1
116	Classroom	496 sf	20 sf net	25
116A	Storage	32 sf	300 sf gross	1
116B	Storage	136 sf	300 sf gross	1
117	Break Room	143 sf	15 sf net	9
117A	Toilet	22 sf	0	0
117B	Toilet	14 sf	0	0
117C	Lounge	43 sf	15 sf net	2
118	Not Used			
119	Classroom	448 sf	20 sf net	22
120	Not Used			
121	Classroom	678 sf	20 sf net	33
Total				309

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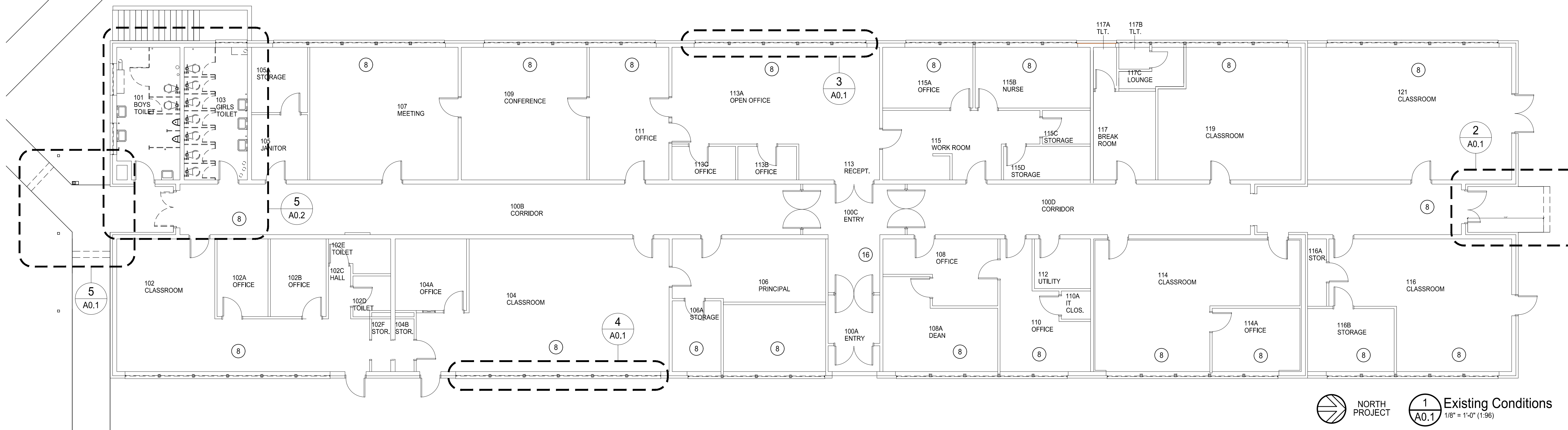
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RENOVATIONS FOR BUILDING 1
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MOORE COUNTY SCHOOLS
160 Pinckney Rd. Carthage, North Carolina 28327

SHEET NO.
G3.1



NORTH PROJECT

1 Existing Conditions
1/8" = 1'-0" (1:96)

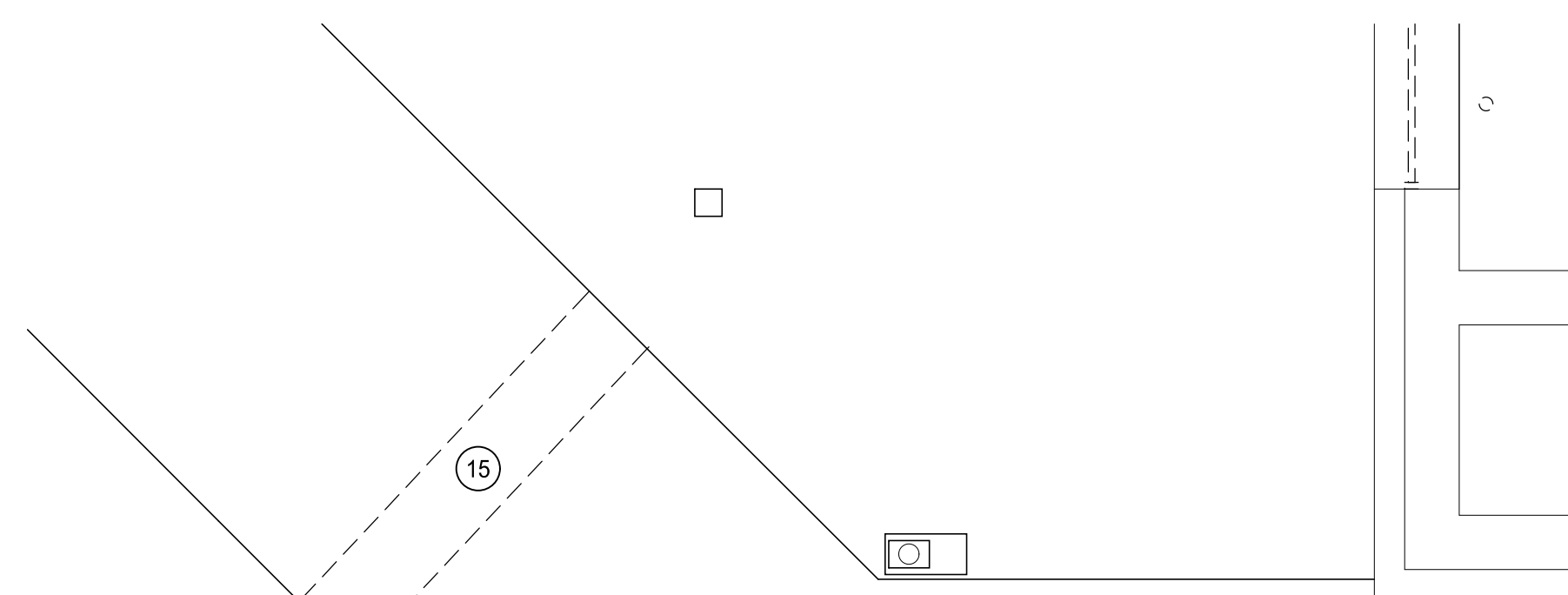
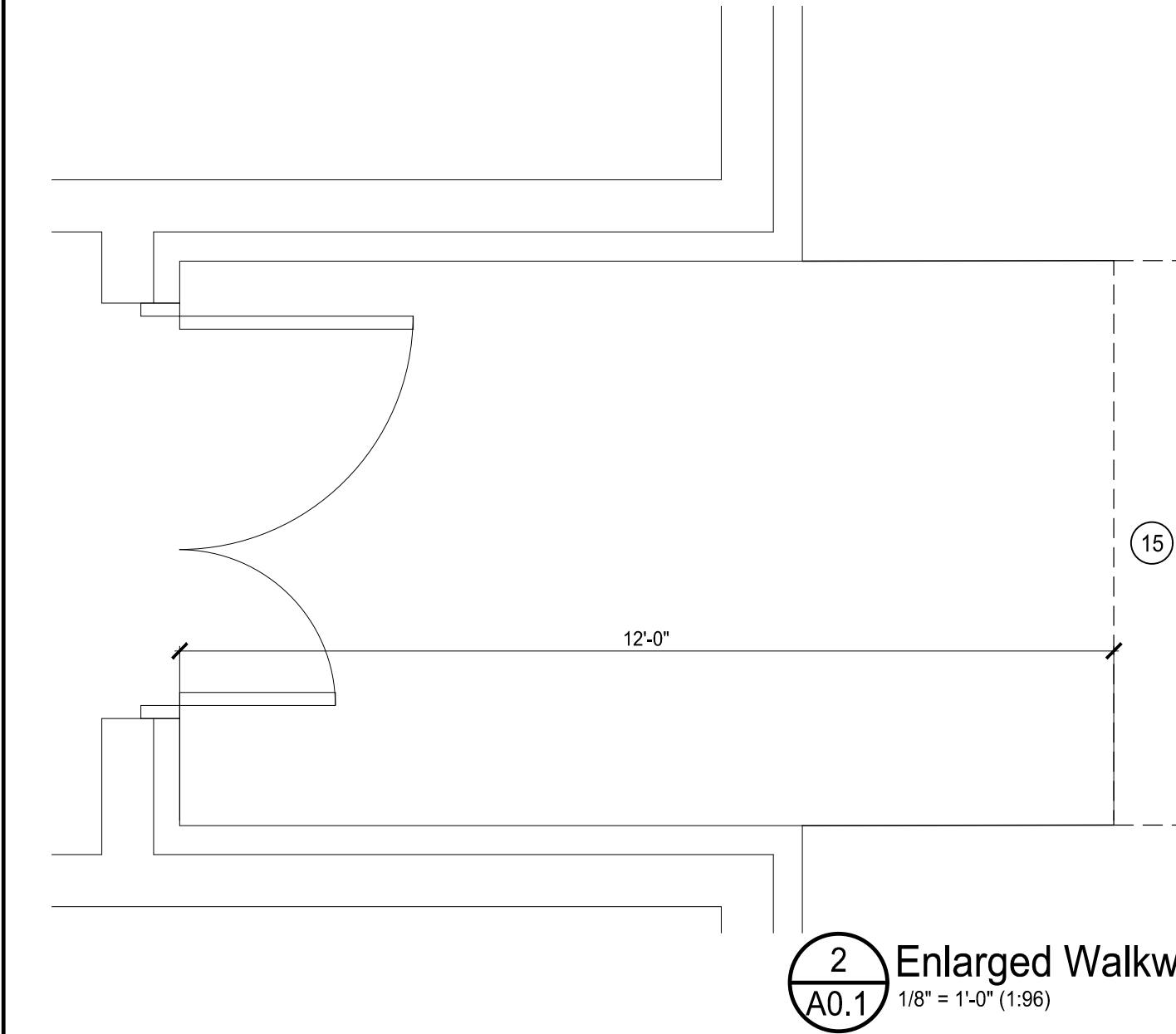
DEMOLITION / RENOVATION NOTES

REFER TO SHEET A0.2 FOR ADDITION DEMOLITION / RENOVATION NOTES.

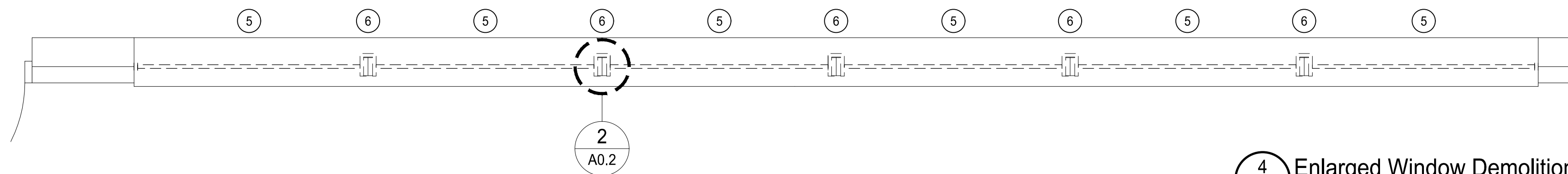
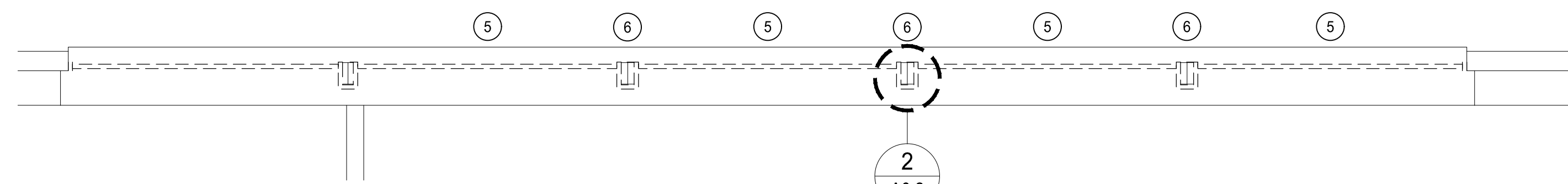
5 PROPERLY REMOVE AND LEGALLY DISPOSE OF EXISTING STEEL WINDOW FRAME AND GLAZING. PROTECT THE EXISTING WINDOW SILL. EXCEPT FOR MODIFICATIONS FOR NEW WINDOW FRAMES. CONTRACTOR TO INSTALL TEMPORARY WEATHER TIGHT BARRIER FOR THE EXISTING OPENING AND MAINTAIN THE PROTECTION UNTIL THE CONSTRUCTION OF THE WALL INFILL AND WINDOW FRAME ARE INSTALLED OR UNTIL INSTALLATION OF THE HVAC UNIT IS COMPLETED, REFER TO DETAILS 1/A0.2, 3/A0.2 AND 4/A0.2 FOR ADDITIONAL INFORMATION.

16 PROTECT EXISTING HALL PAINTED MURALS. PAINTER TO IS BLOCK OUT AROUND AND PROTECT DURING WALL PAINTING.

- 6** REMOVE THE STEEL COVER PLATE (8'-1 1/2" x 5" x 3/16") WITH 1/2" ROD CONNECTORS. EXISTING STEEL WINDOW COLUMN IS TO REPLACE TO BE INCORPORATED INTO THE WALL INFILL SYSTEM. REFER TO DETAIL 2/A0.2.
- 8** REMOVE RADIATOR COVER AND RETURN TO OWNER.
- 13** REMOVE EXISTING DOOR THRESHOLD
- 14** REMOVE EXISTING DOOR, FRAME, TRANSOM AND DOOR HARDWARE. RETURN DOOR HARDWARE TO OWNER.
- 15** REMOVE EXISTING CONCRETE WALKWAY TO CREATE A TURNDOWN SLAB CONDITION REFER TO DETAILS 7/A6.1 OR 8/A6.1



5 Enlarged Walkway and Door Demolition
1/2" = 1'-0" (1:24)

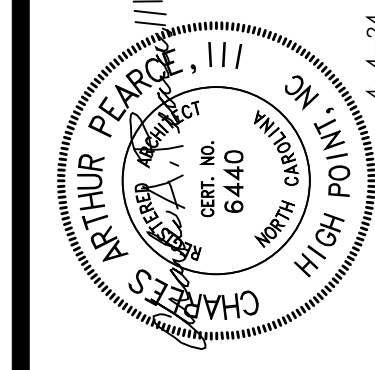


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RENOVATIONS FOR BUILDING 1

**PINKNEY ACADEMY
MOORE COUNTY SCHOOLS**

160 Pinkney Rd. Carthage, North Carolina 28327

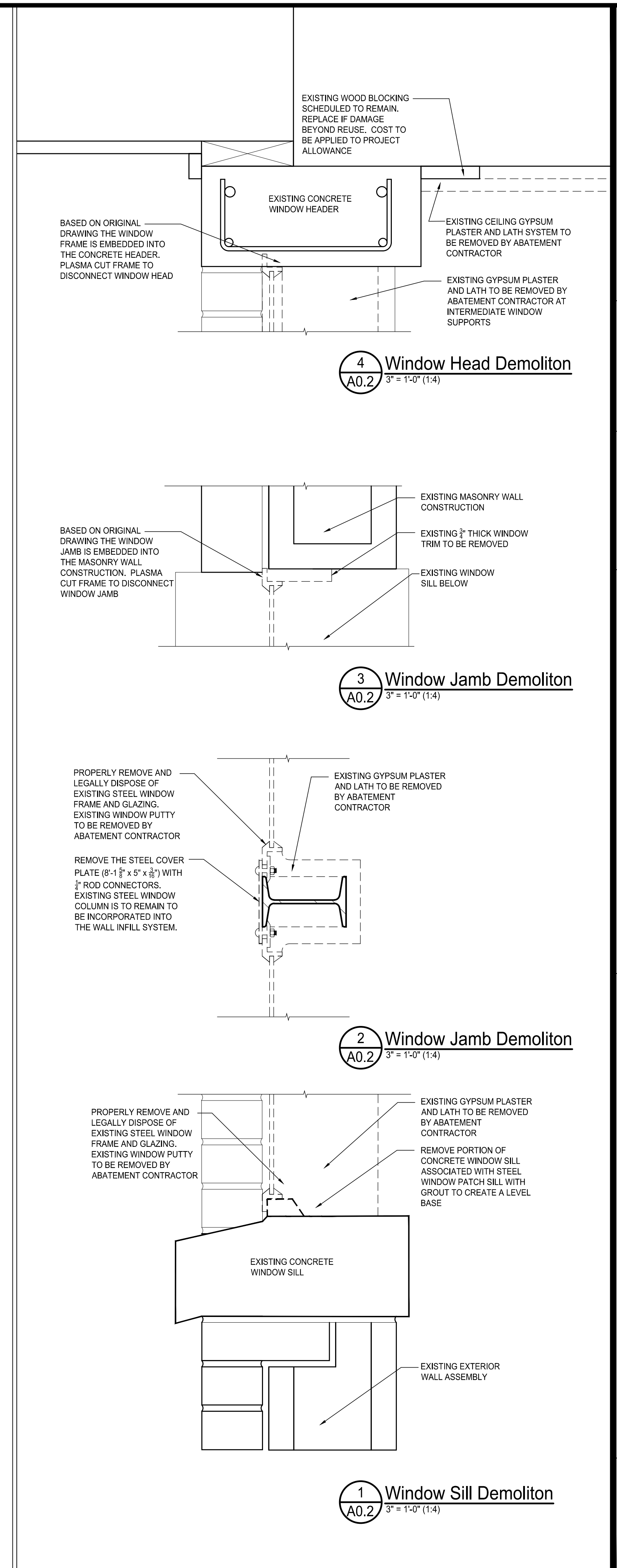
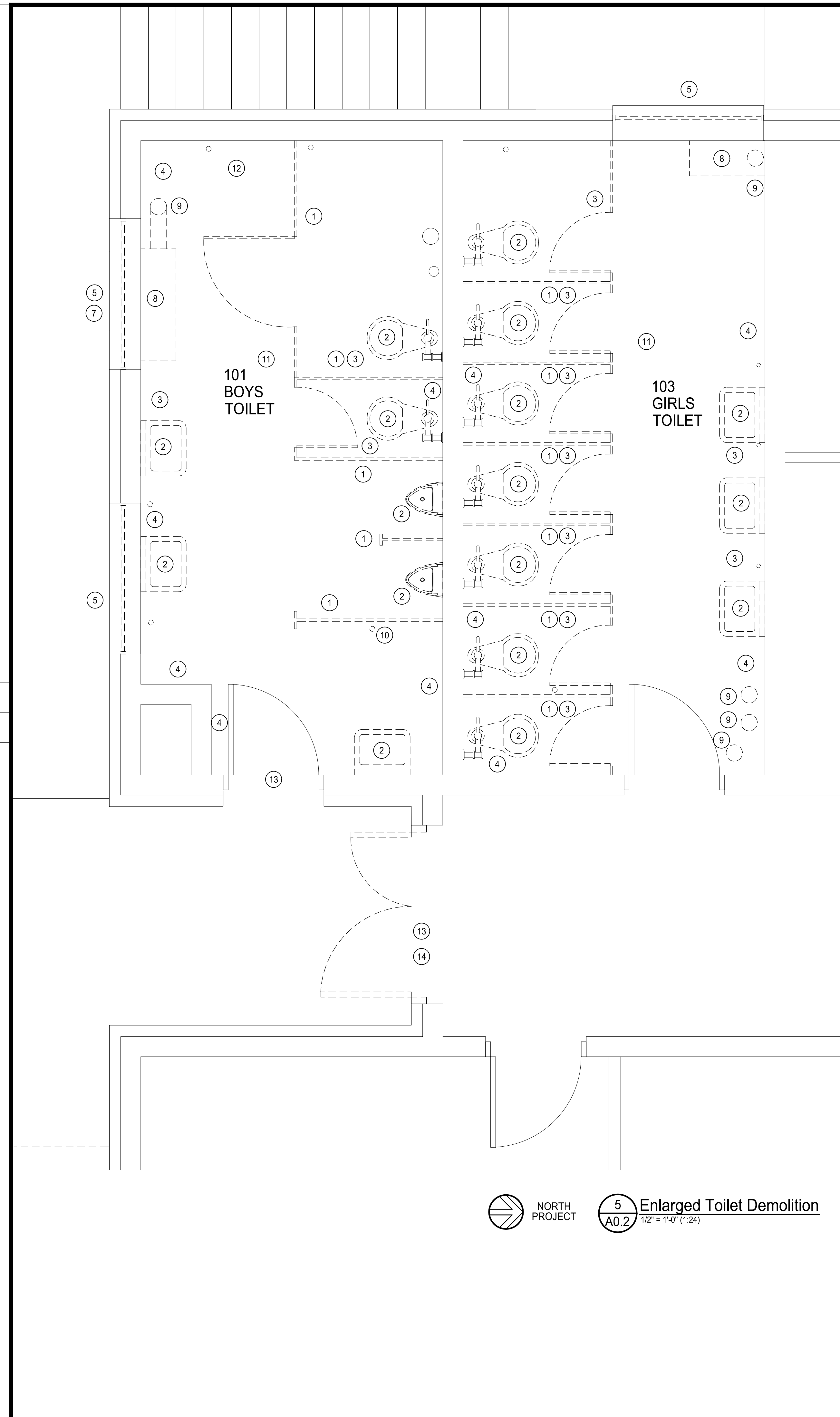
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A0.1

DEMOLITION / RENOVATION NOTES

PLAN REF. DESCRIPTION

- 1 REMOVE AND DISPOSE OF EXISTING TOILET PARTITIONS INCLUDING MOUNTING BRACKET AND HARDWARE.
- 2 REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 REMOVE AND RETURN TOILET ACCESSORIES TO OWNER.
- 4 REMOVE EXISTING TILE BASE THAT WILL BE EXPOSED AFTER THE FURRED WALLS ARE INSTALLED. THE NOTE IS TO APPLY TO THE ENTIRE PERIMETER OF THE ROOM. PREPARE SUBSTRATE TO RECEIVE NEW FINISHES
- 5 PROPERLY REMOVE AND LEGALLY DISPOSE OF EXISTING STEEL WINDOW FRAME AND GLAZING. PROTECT THE EXISTING WINDOW SILL. EXCEPT FOR MODIFICATIONS FOR NEW WINDOW FRAMES. CONTRACTOR TO INSTALL TEMPORARY WEATHER TIGHT BARRIER FOR THE EXISTING OPENING AND MAINTAIN THE PROTECTION UNTIL THE CONSTRUCTION OF THE WALL INFILL AND WINDOW FRAME ARE INSTALLED OR UNTIL INSTALLATION OF THE HVAC UNIT IS COMPLETED. REFER TO DETAILS 1/A0.2, 3/A0.2 AND 4/A0.2 FOR ADDITIONAL INFORMATION.
- 6 REMOVE THE STEEL COVER PLATE (8'-1 5/8" x 5" x 3/8") WITH 1/2" ROD CONNECTORS. EXISTING STEEL WINDOW COLUMN IS TO REPLACE TO BE INCORPORATED INTO THE WALL INFILL SYSTEM. REFER TO DETAIL 2/A0.2.
- 7 REMOVE PORTION OF THE EXISTING CONCRETE WINDOW SILL TO ACCOMMODATE THE HVAC EQUIPMENT. REFER TO WALL SECTION 6/A3.0 FOR ADDITIONAL INFORMATION.
- 8 REMOVE RADIATOR COVER AND RETURN TO OWNER.
- 9 REFER TO MECHANICAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION ON REMOVE OF EXISTING HVAC WATER LINES.
- 10 REFER TO PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION ON REMOVAL OF EXISTING WATER AND VENT LINES.
- 11 REFER TO PLUMBING AND RESTROOM PLANS FOR LOCATION OF CORE DRILL FLOOR DRAIN.
- 12 INFILL FORMER FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 13 REMOVE EXISTING DOOR THRESHOLD
- 14 REMOVE EXISTING DOOR, FRAME, TRANSOM AND DOOR HARDWARE. RETURN DOOR HARDWARE TO OWNER.
- 15 REMOVE EXISTING CONCRETE WALKWAY TO CREATE A TURNDOWN SLAB CONDITION REFER TO DETAILS 7/A6.1 OR 8/A6.1
- 16 PROTECT EXISTING HALL PAINTED MURALS. PAINTER TO IS BLOCK OUT AROUND AND PROTECT DURING WALL PAINTING.



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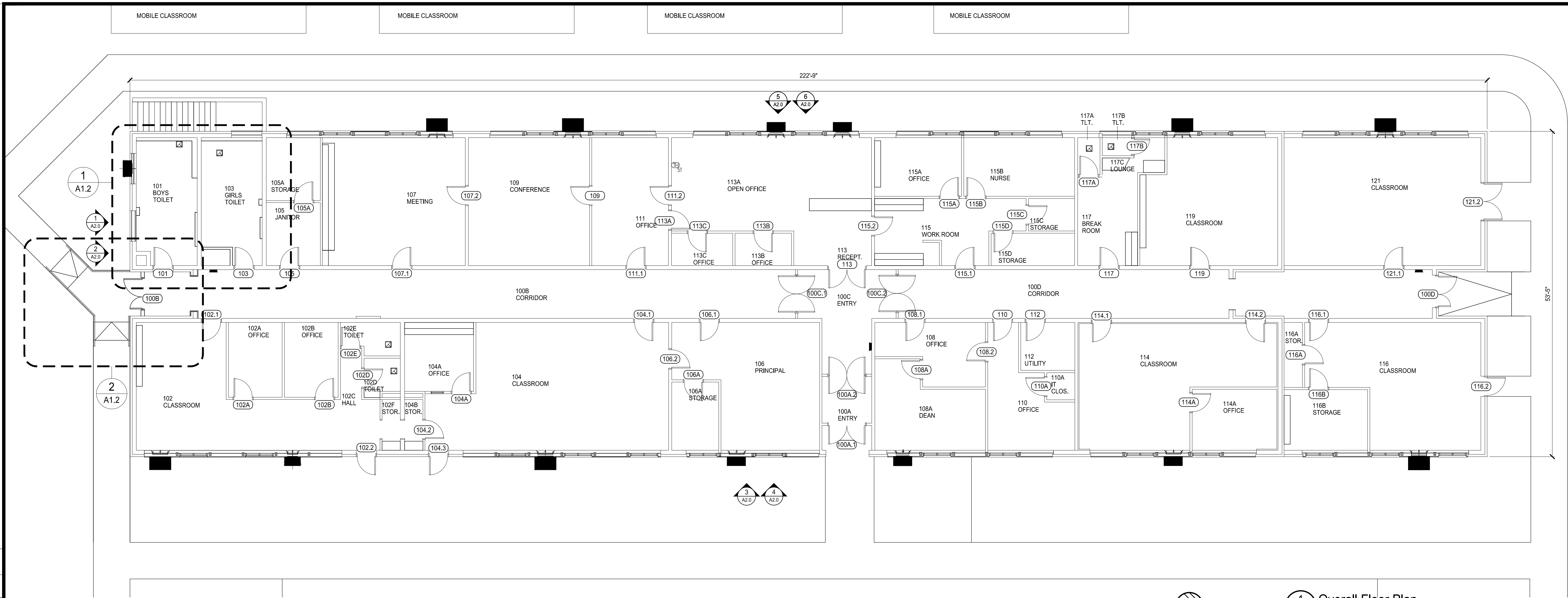
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RENOVATIONS FOR BUILDING 1
**PINCKNEY ACADEMY
MOORE COUNTY SCHOOLS**
160 Pinckney Rd. Carthage, North Carolina 28327

SHEET NO.
A0.2



NORTH PROJECT

1 Overall Floor Plan
A1.0 1/8" = 1'-0" (1:96)

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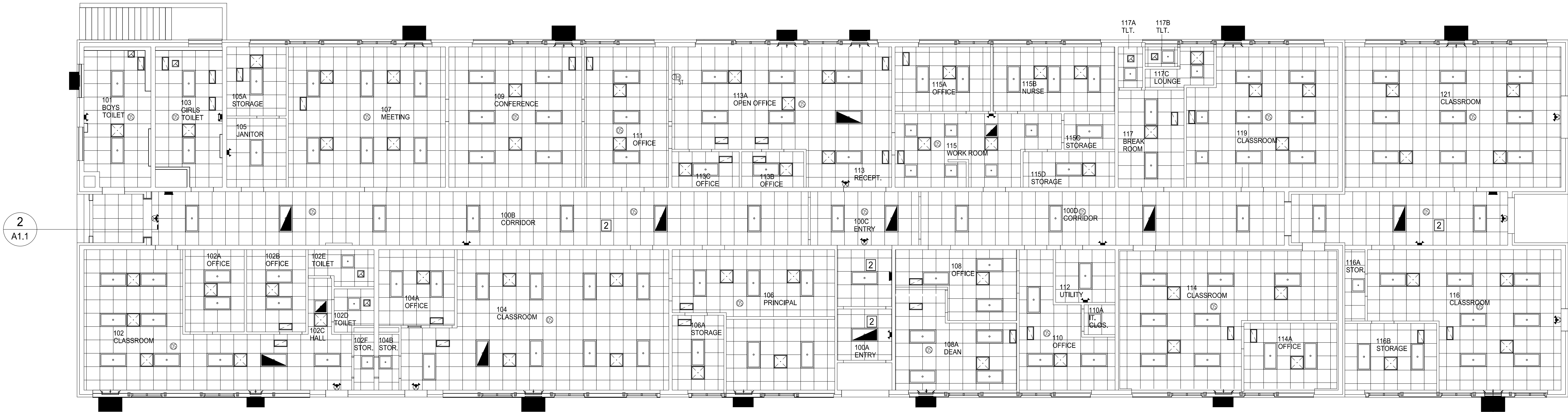
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RENOVATIONS FOR BUILDING 1
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MOORE COUNTY SCHOOLS
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2
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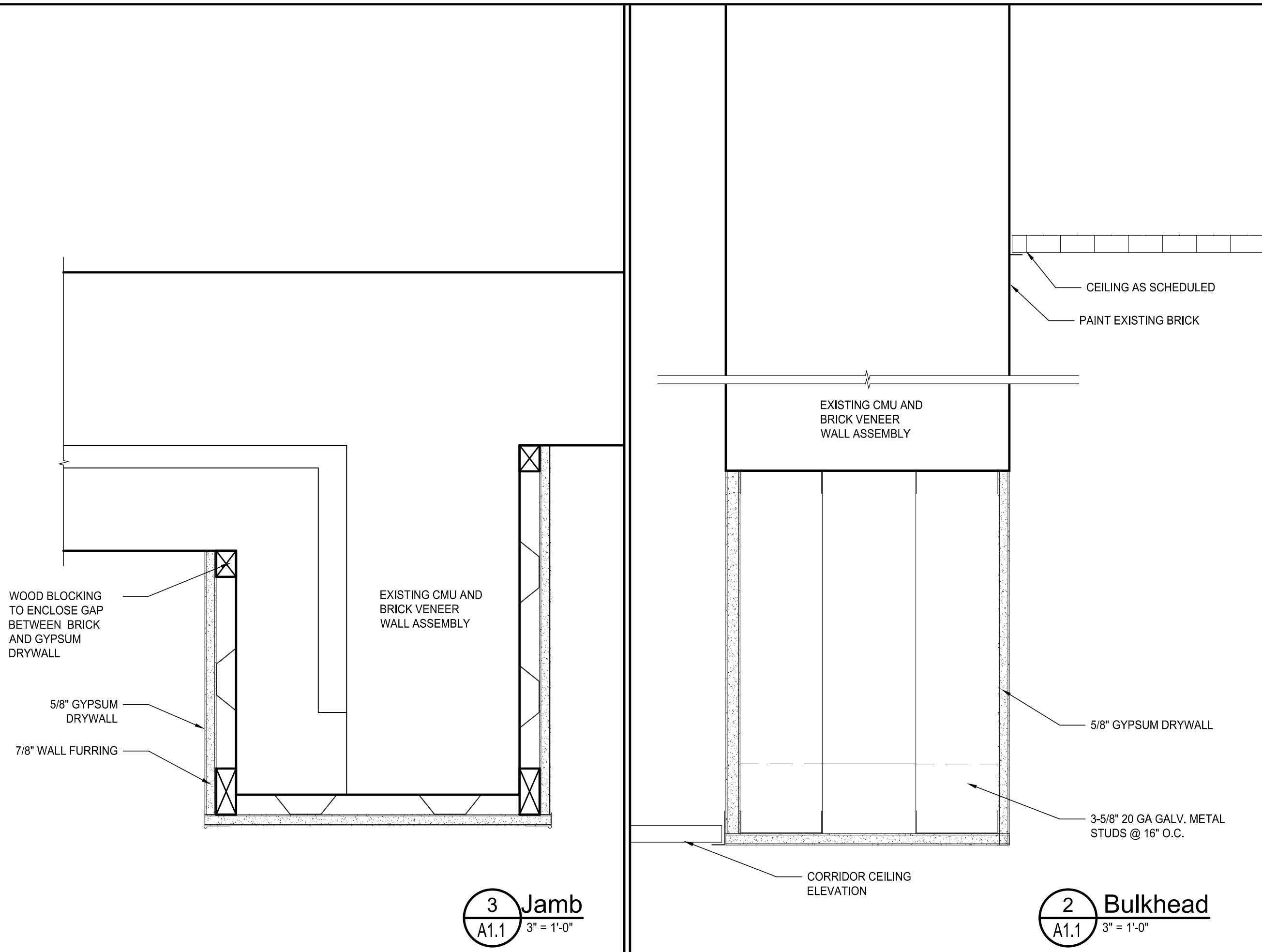


1 Reflected Ceiling Plan
1/8" = 1'-0" (1:96)

- GENERAL NOTES:
- 1 UNLESS OTHERWISE NOTED THE CEILING ELEVATION FOR THE PERIMETER CLASSROOMS AND OFFICES WILL BE TO MATCH EXISTING CEILING ELEVATION APPROXIMATELY 9'-10" AFF.
 - 2 UNLESS OTHERWISE NOTED CORRIDOR CEILING ELEVATION WILL BE 8'-10" AFF.

SHEET LEGEND

- SUSPENDED ACOUSTICAL CEILING SYSTEM
2 x 2 SUSPENDED ACOUSTICAL CEILING SYSTEM
- 2x4 LIGHT FIXTURE-
SEE ELECTRICAL DRAWINGS
- EXIT / EMERGENCY LIGHT
SEE ELECTRICAL DRAWINGS
- CEILING OR WALL MOUNTED EXIT SIGN
SEE ELECTRICAL DRAWINGS
- SUPPLY AIR GRILLE-
SEE MECHANICAL DRAWINGS
- RETURN AIR GRILLE-
SEE MECHANICAL DRAWINGS
- EXHAUST FAN-
SEE MECHANICAL DRAWINGS
- OCCUPANCY SENSOR
SEE ELECTRICAL DRAWINGS

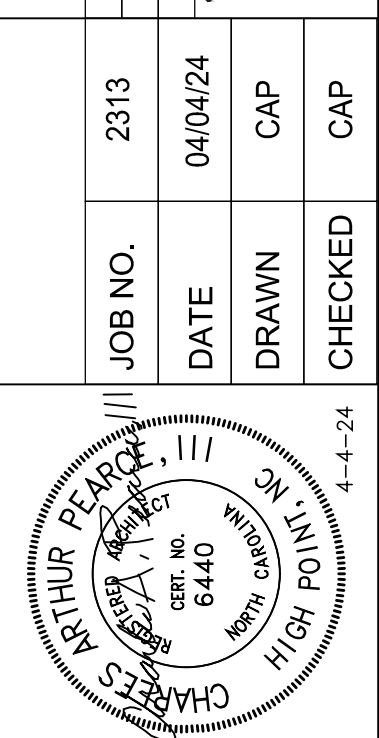


3 Jamb
3" = 1'-0"

2 Bulkhead
3" = 1'-0"

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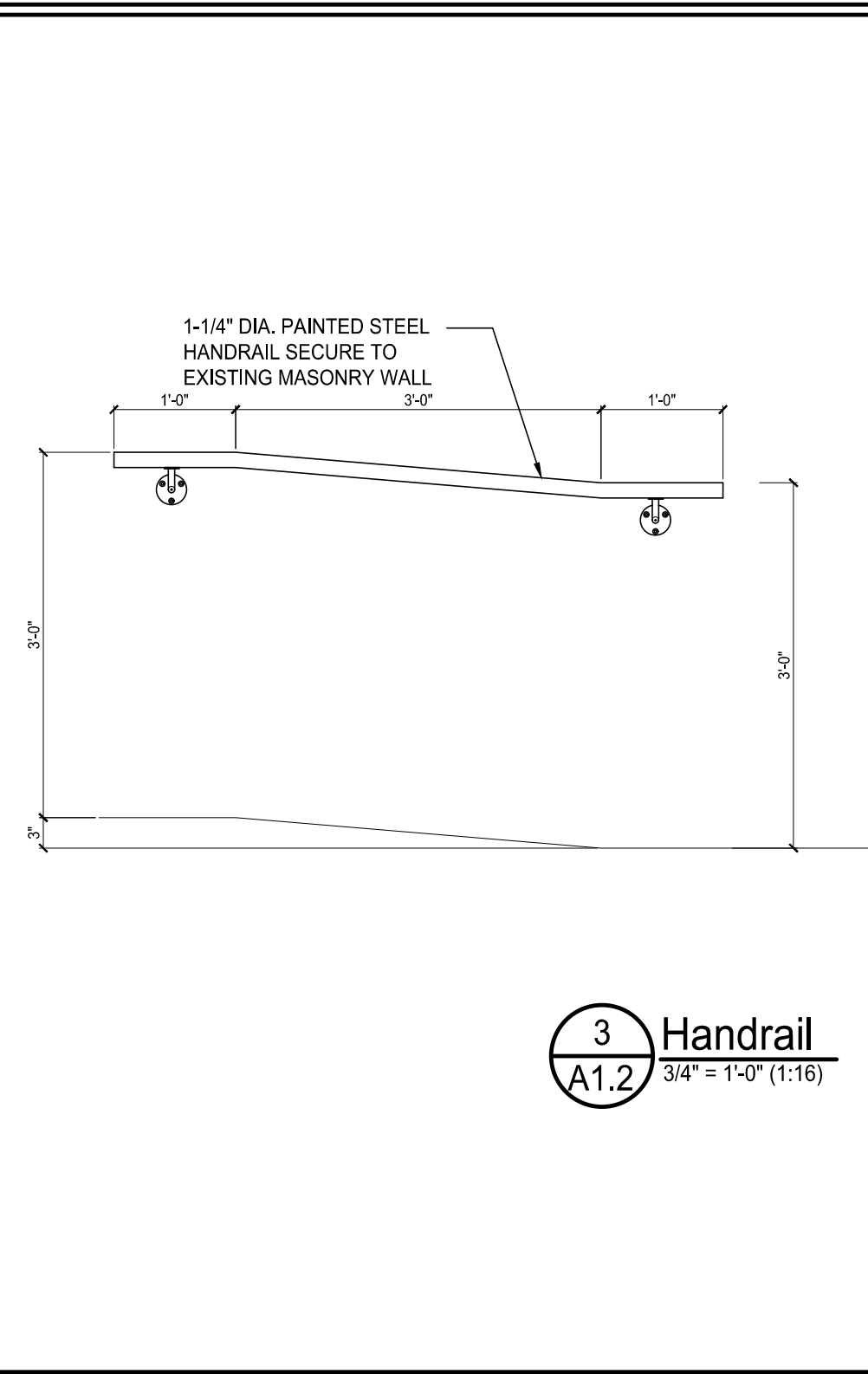
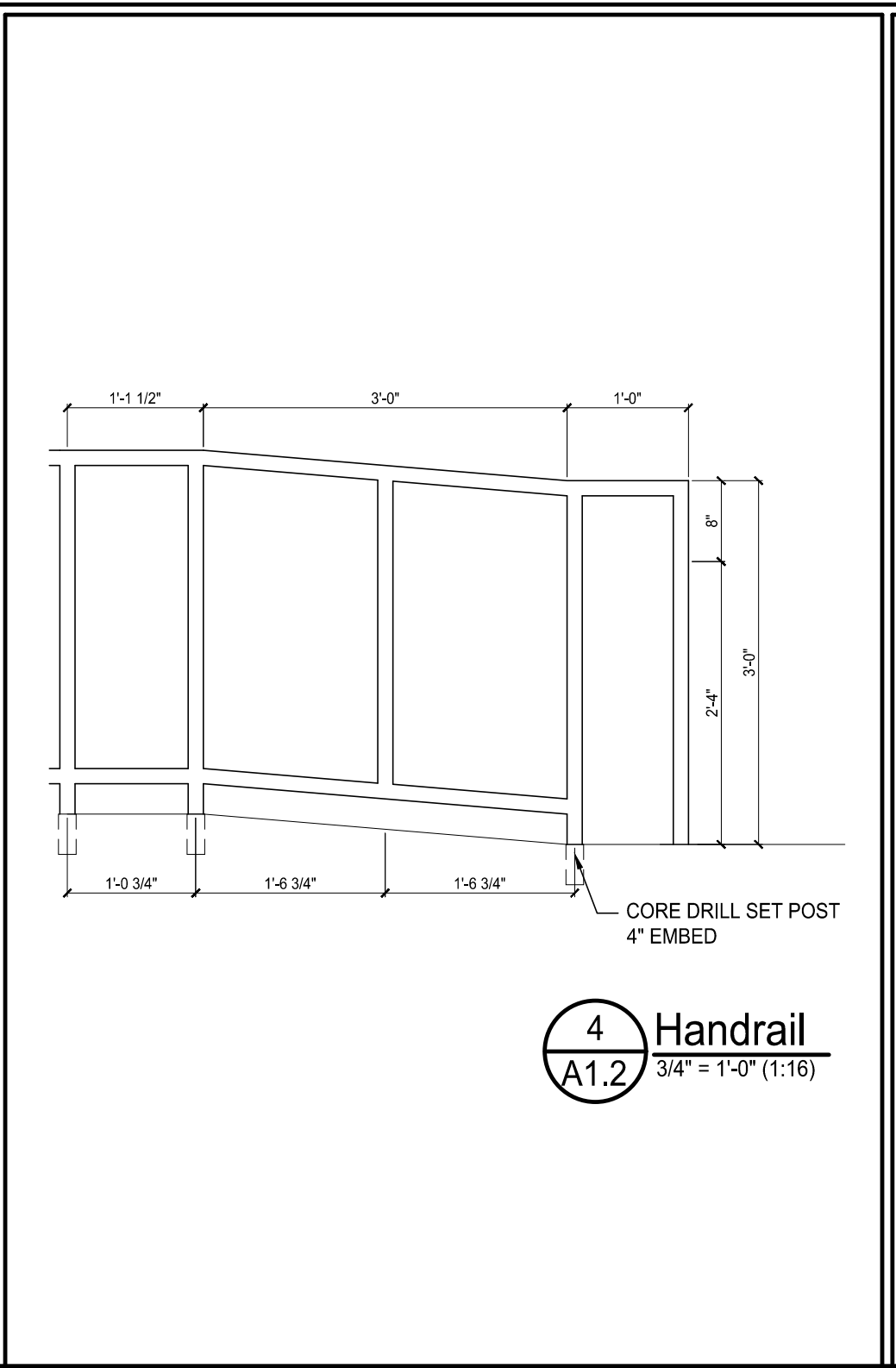
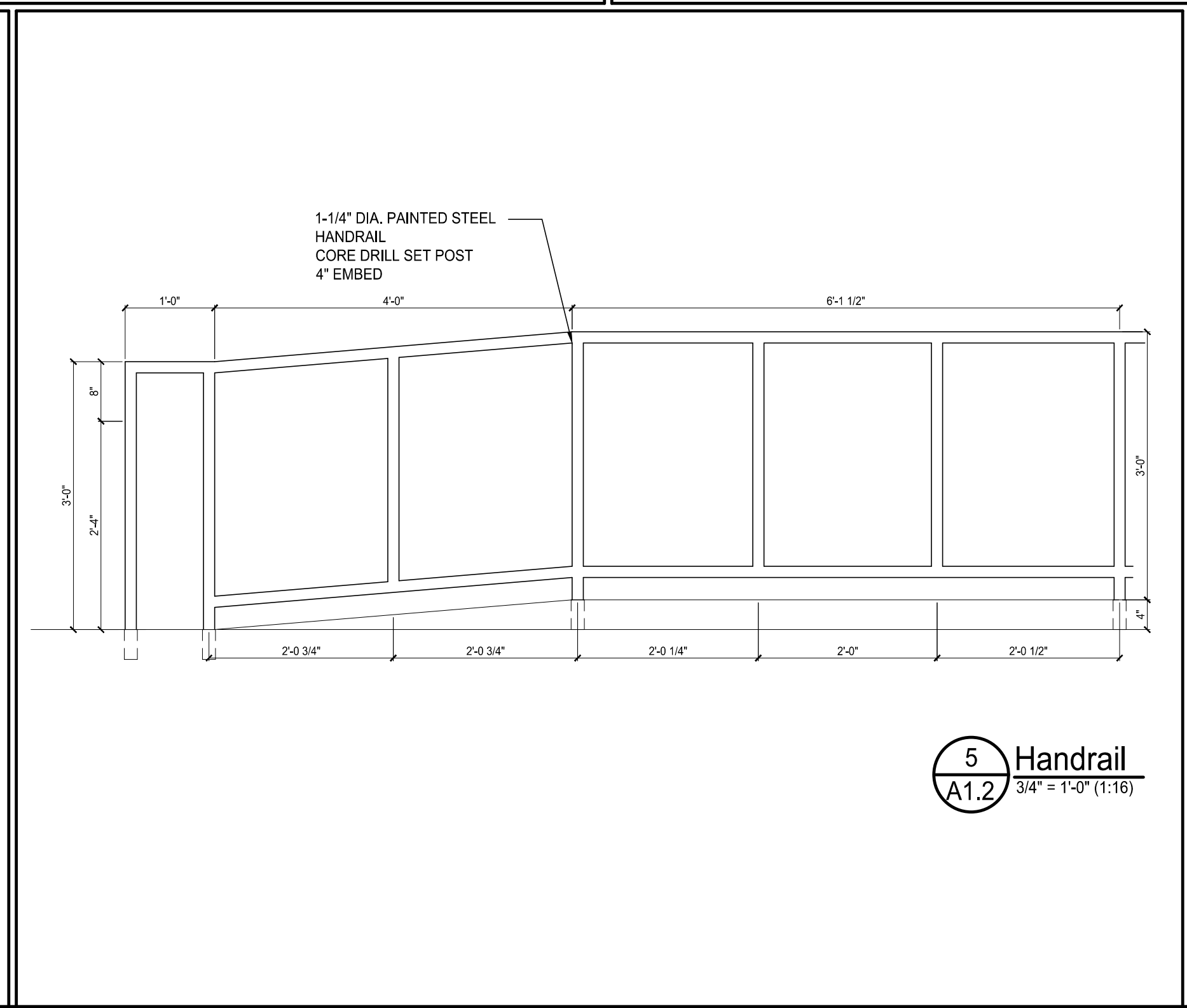
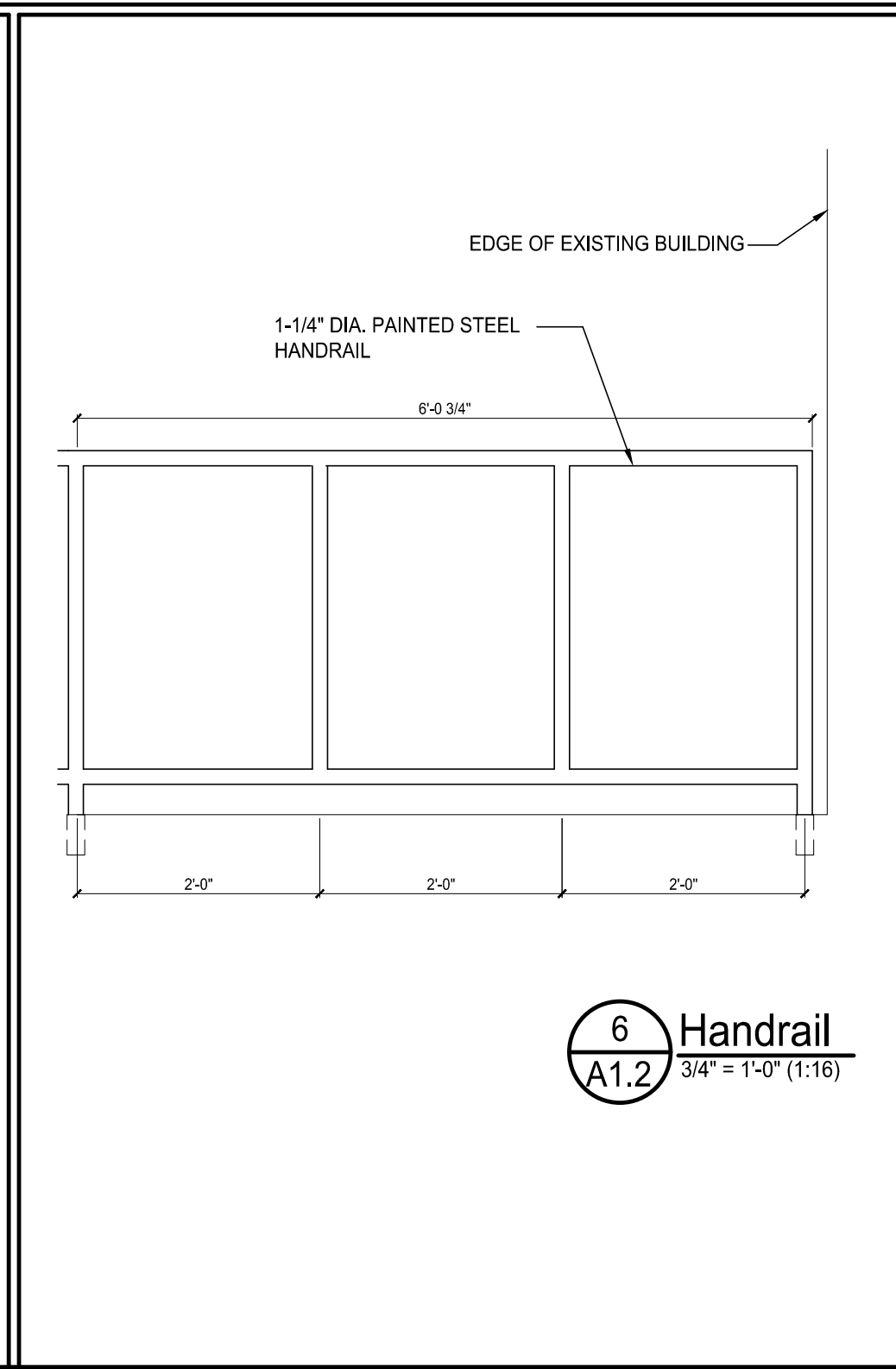
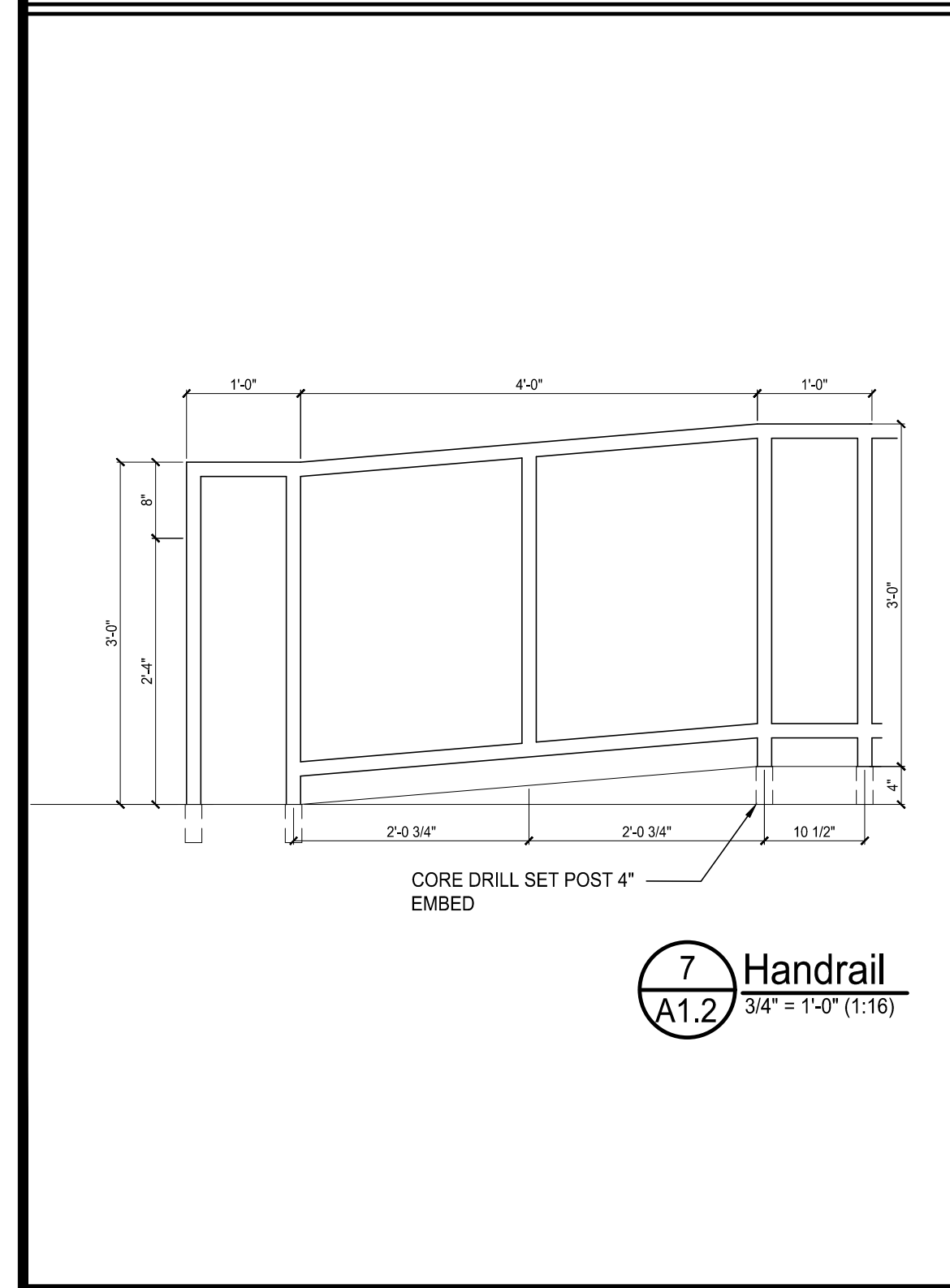
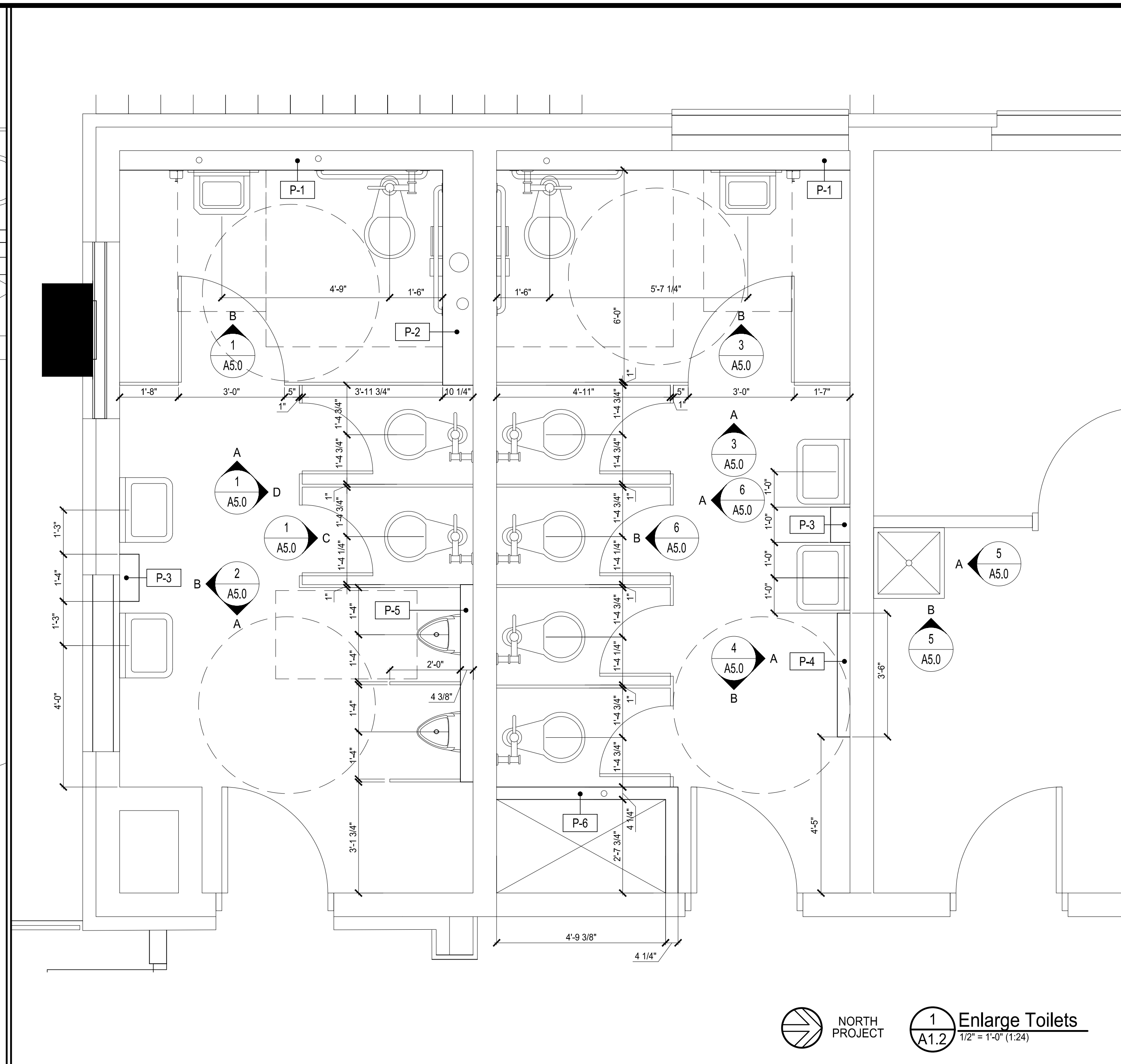
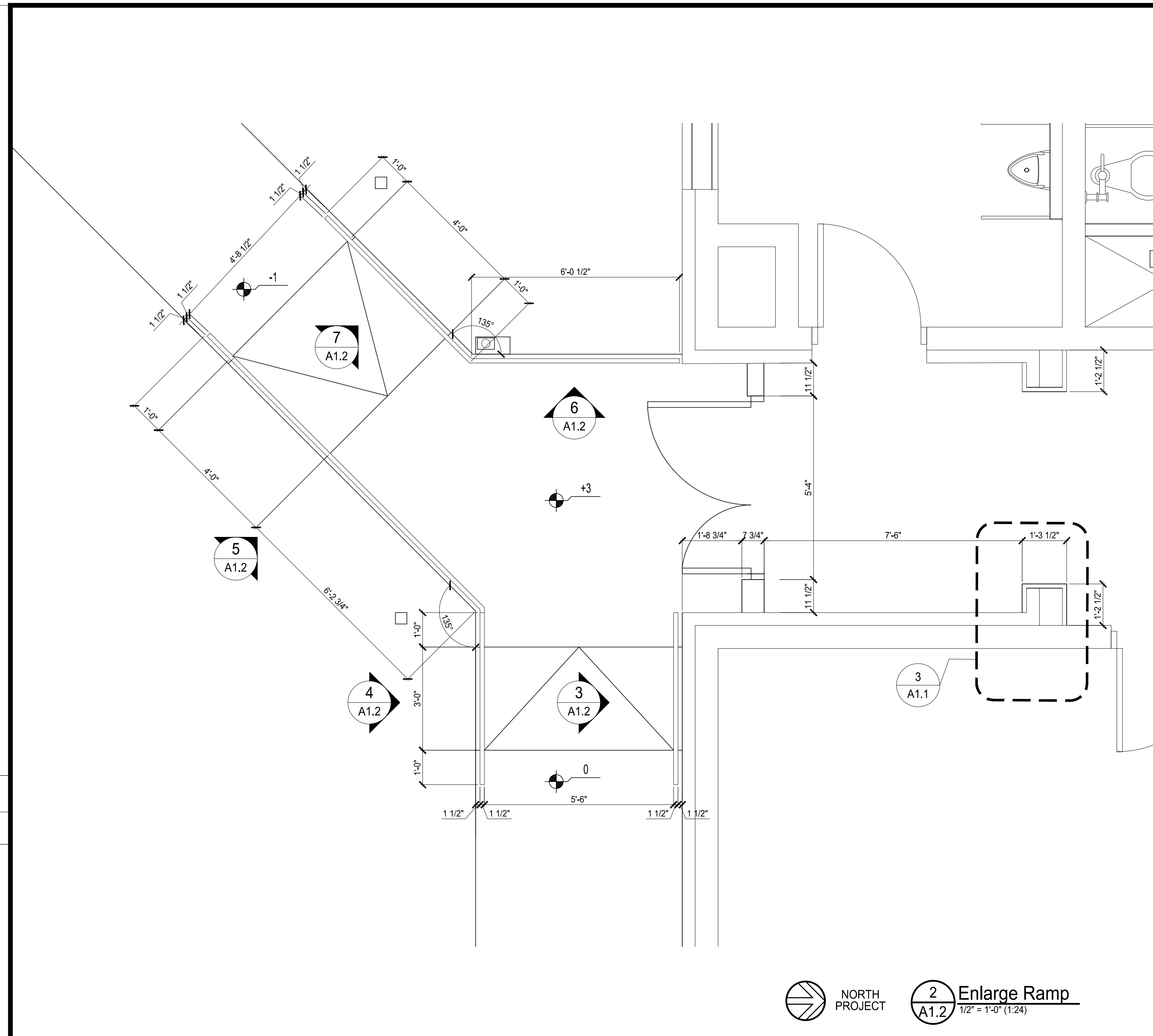
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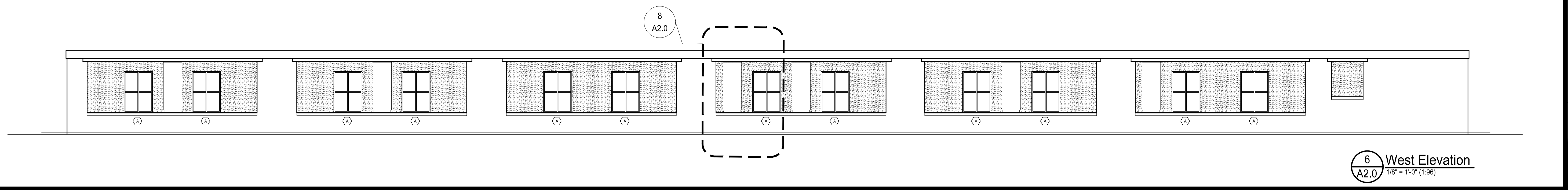
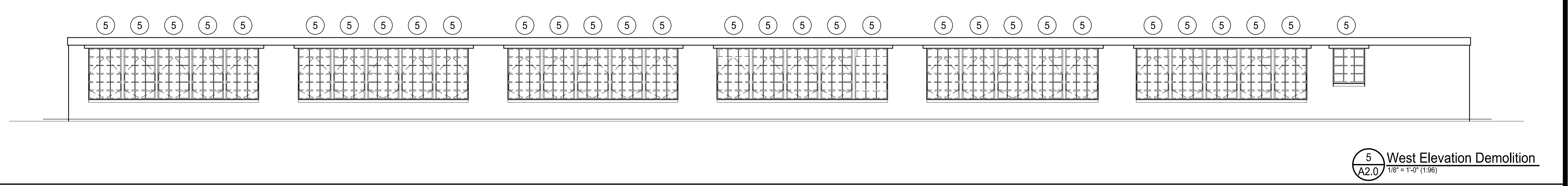
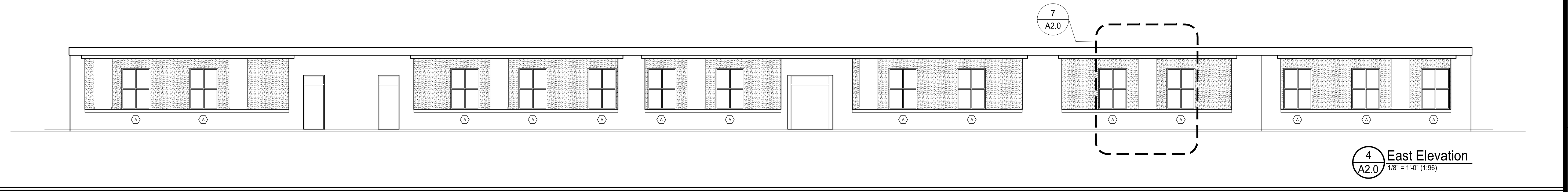
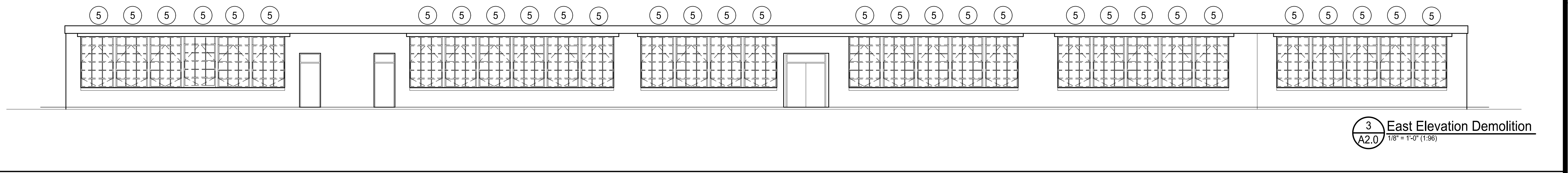
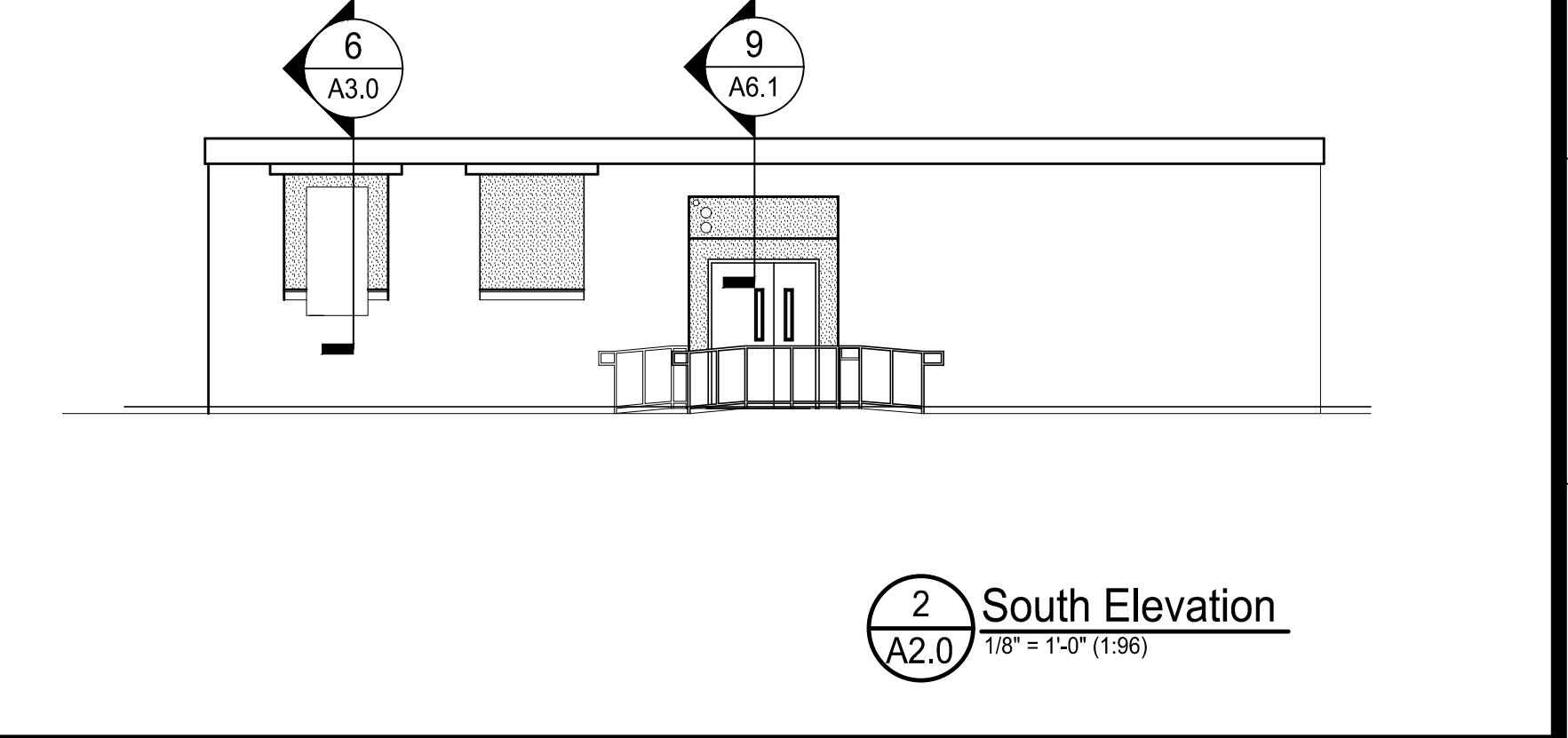
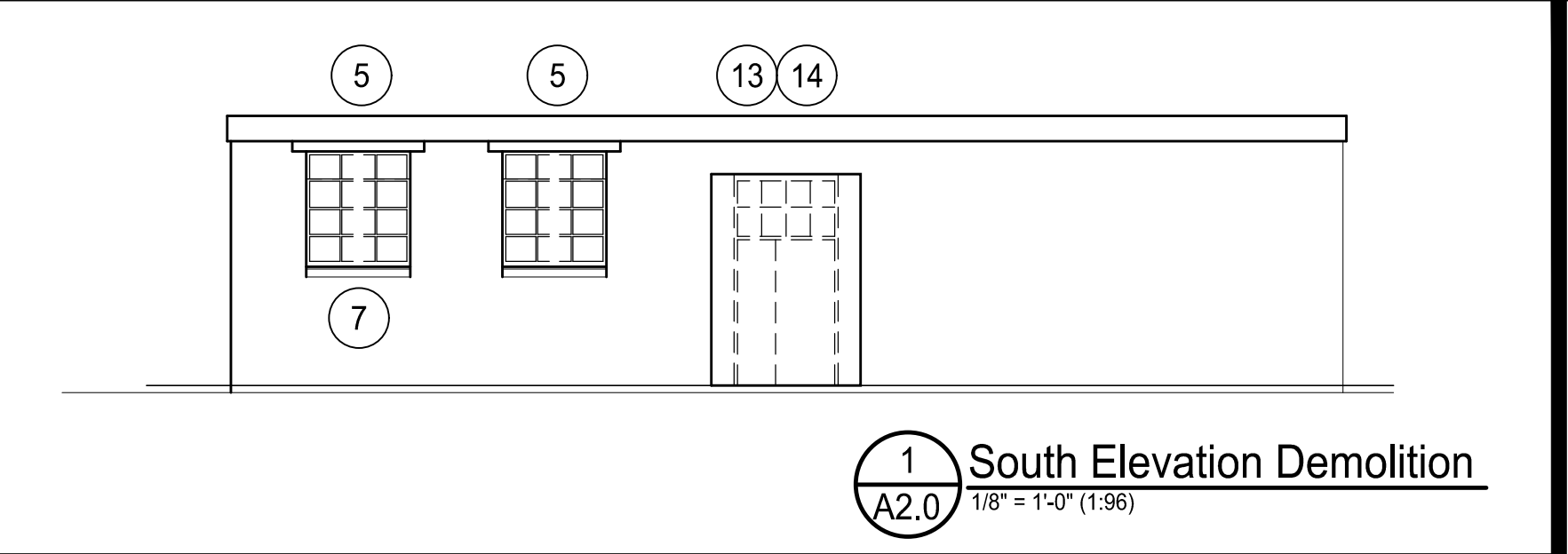
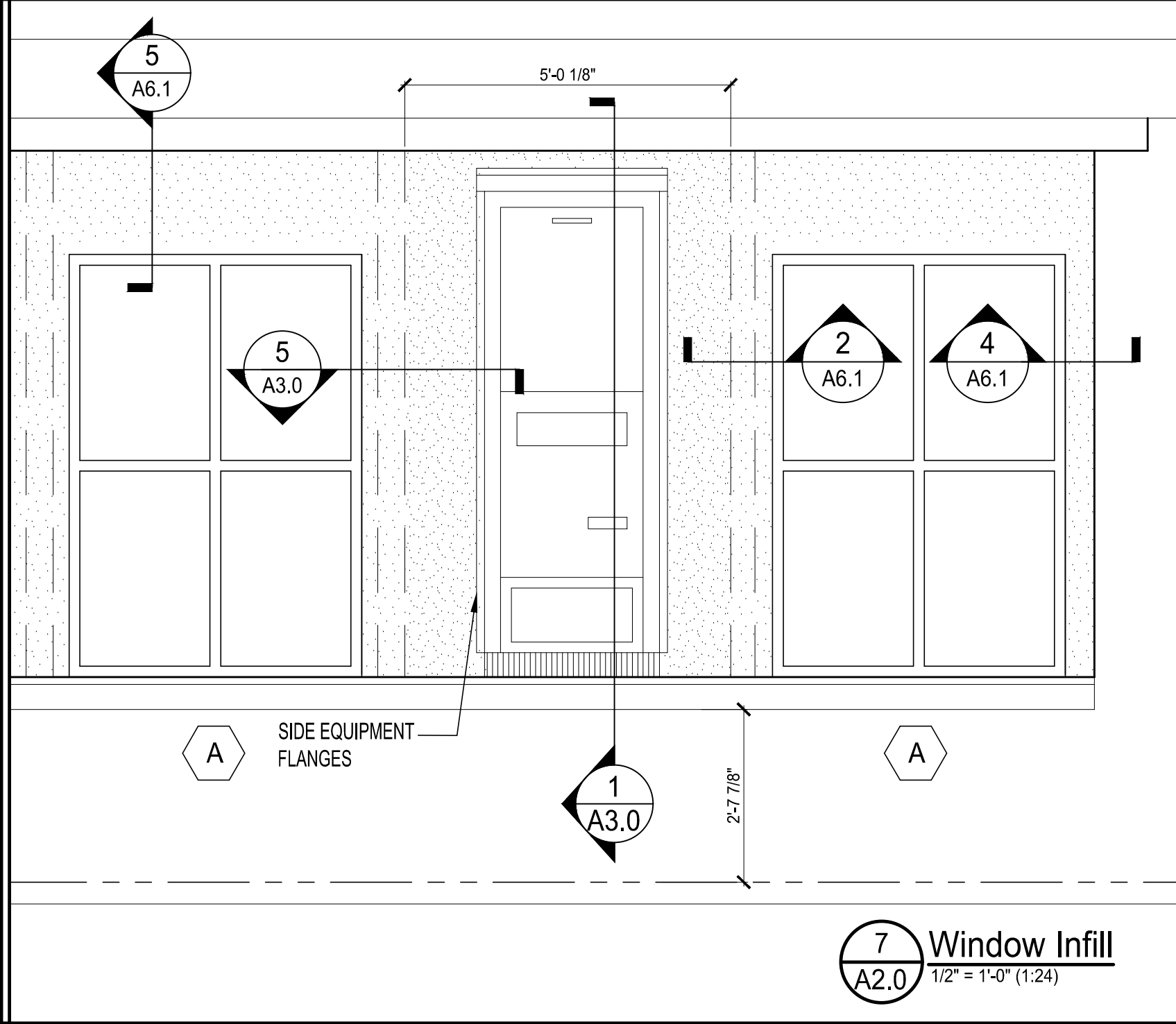
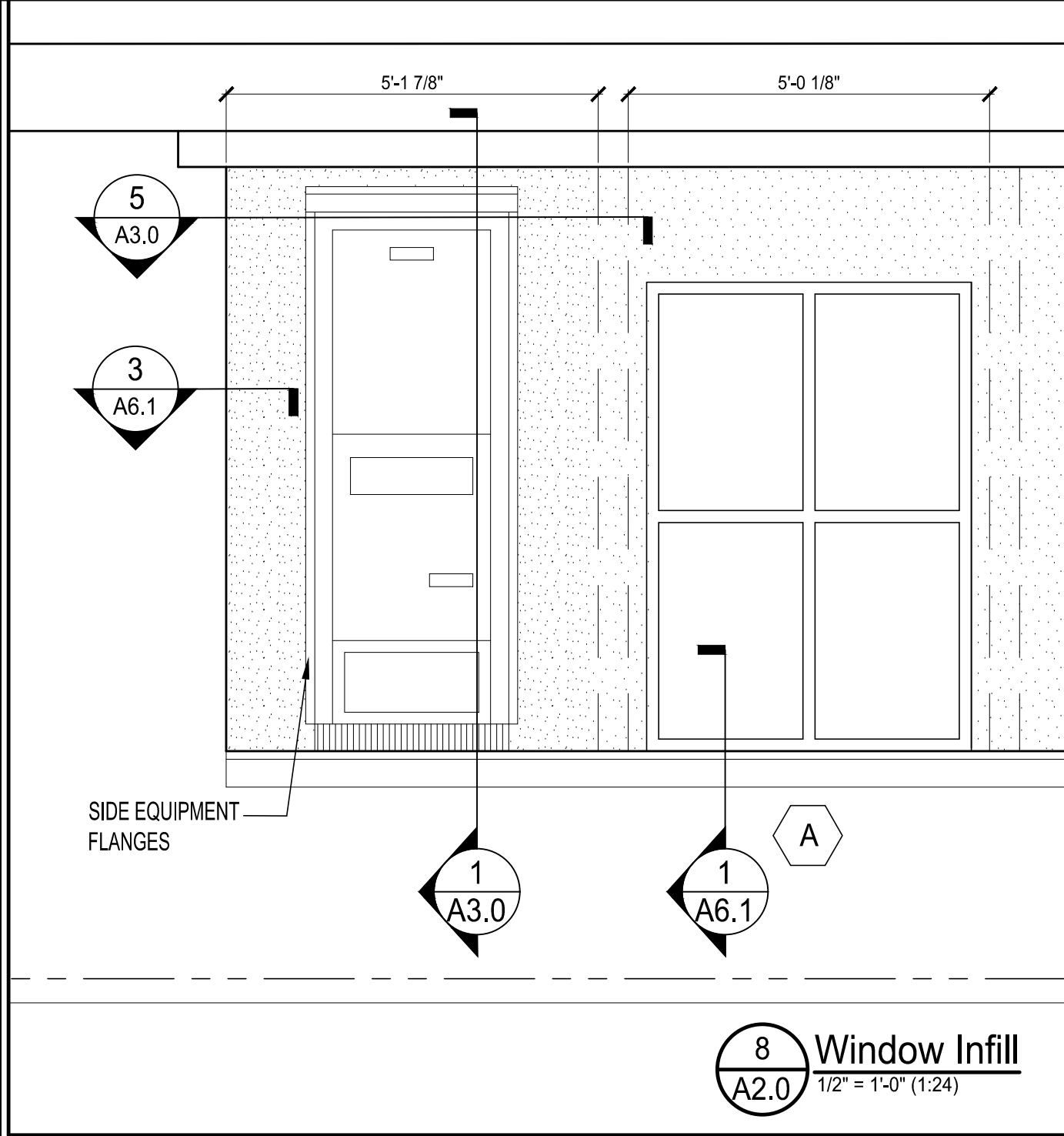
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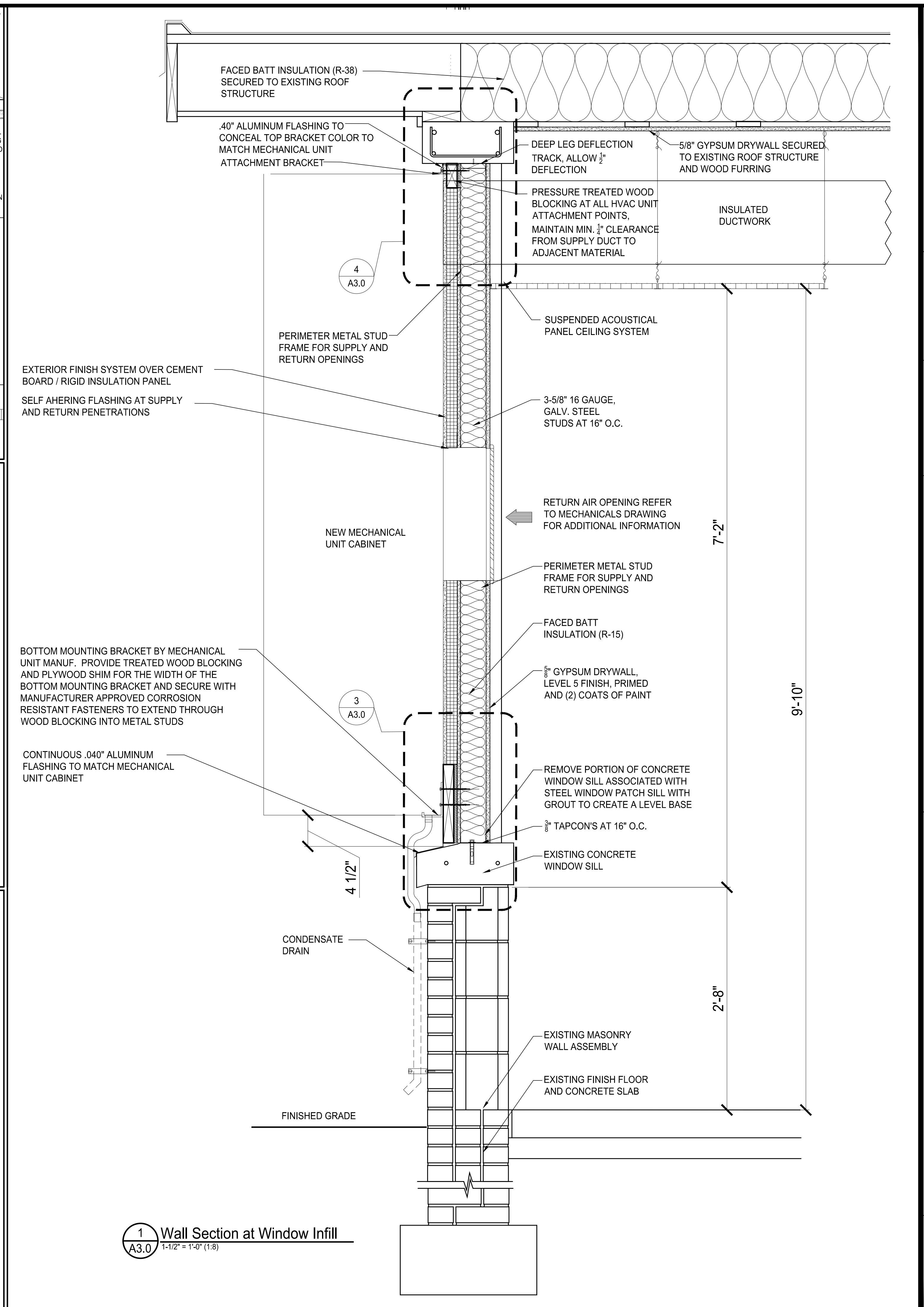
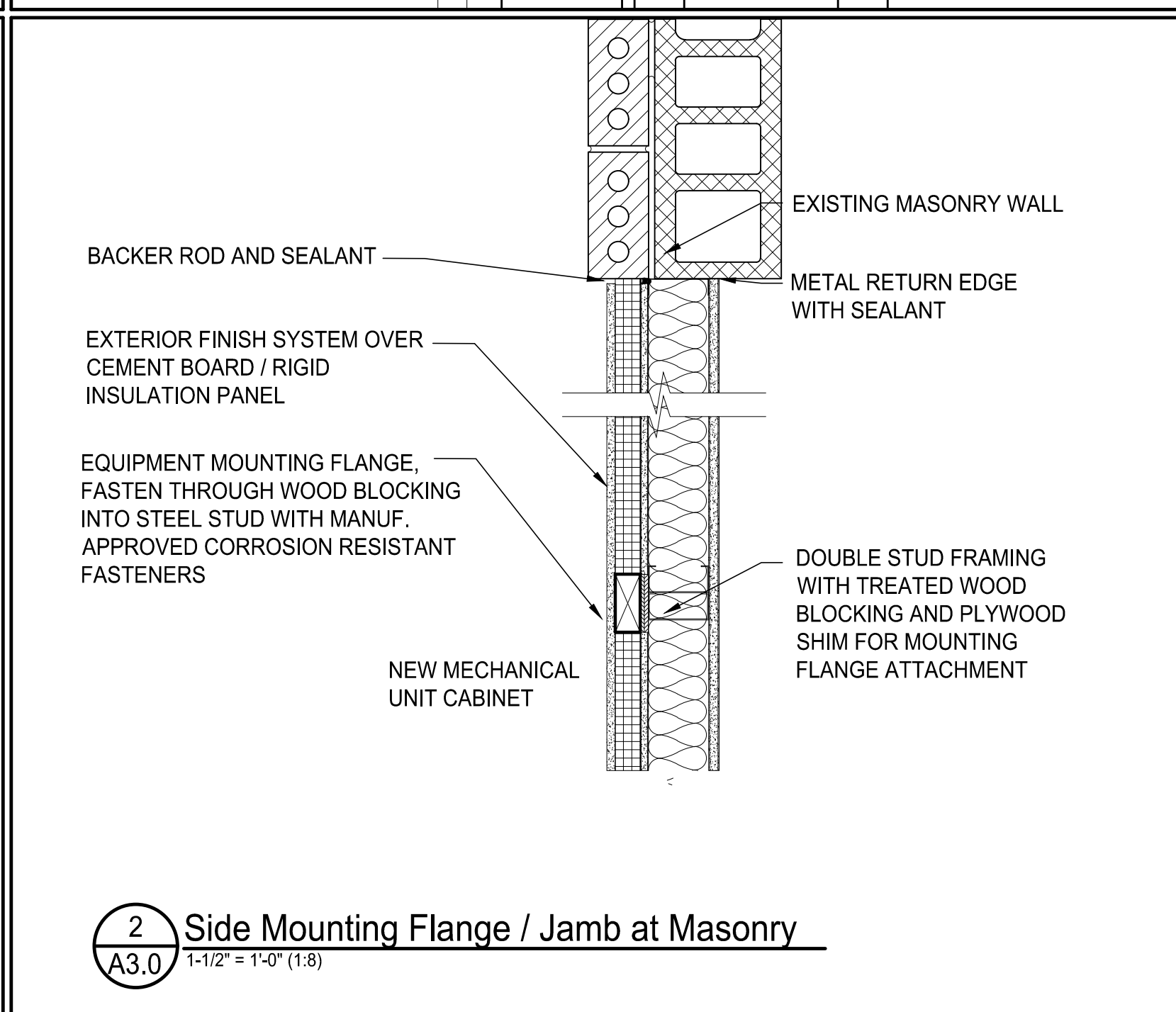
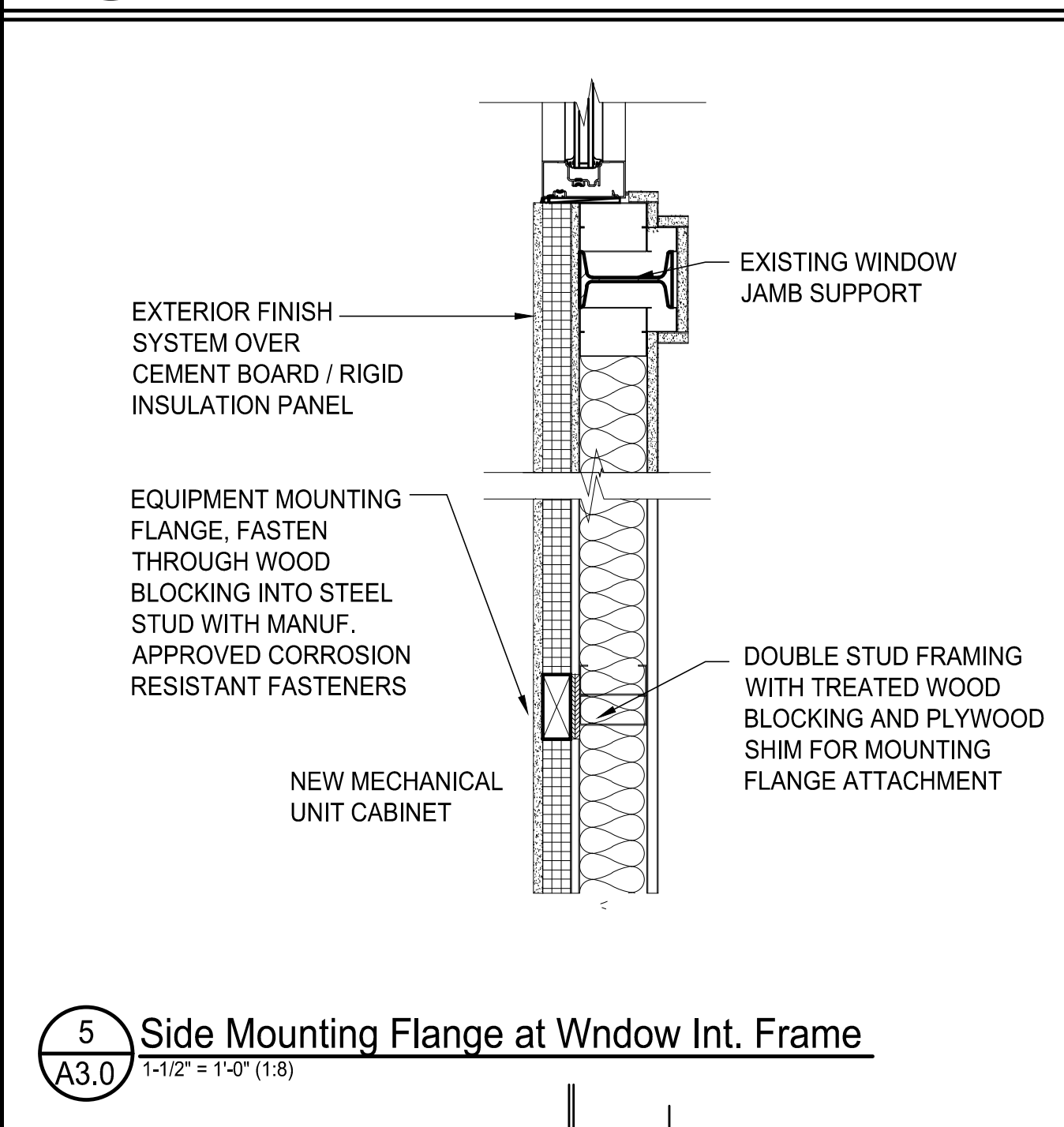
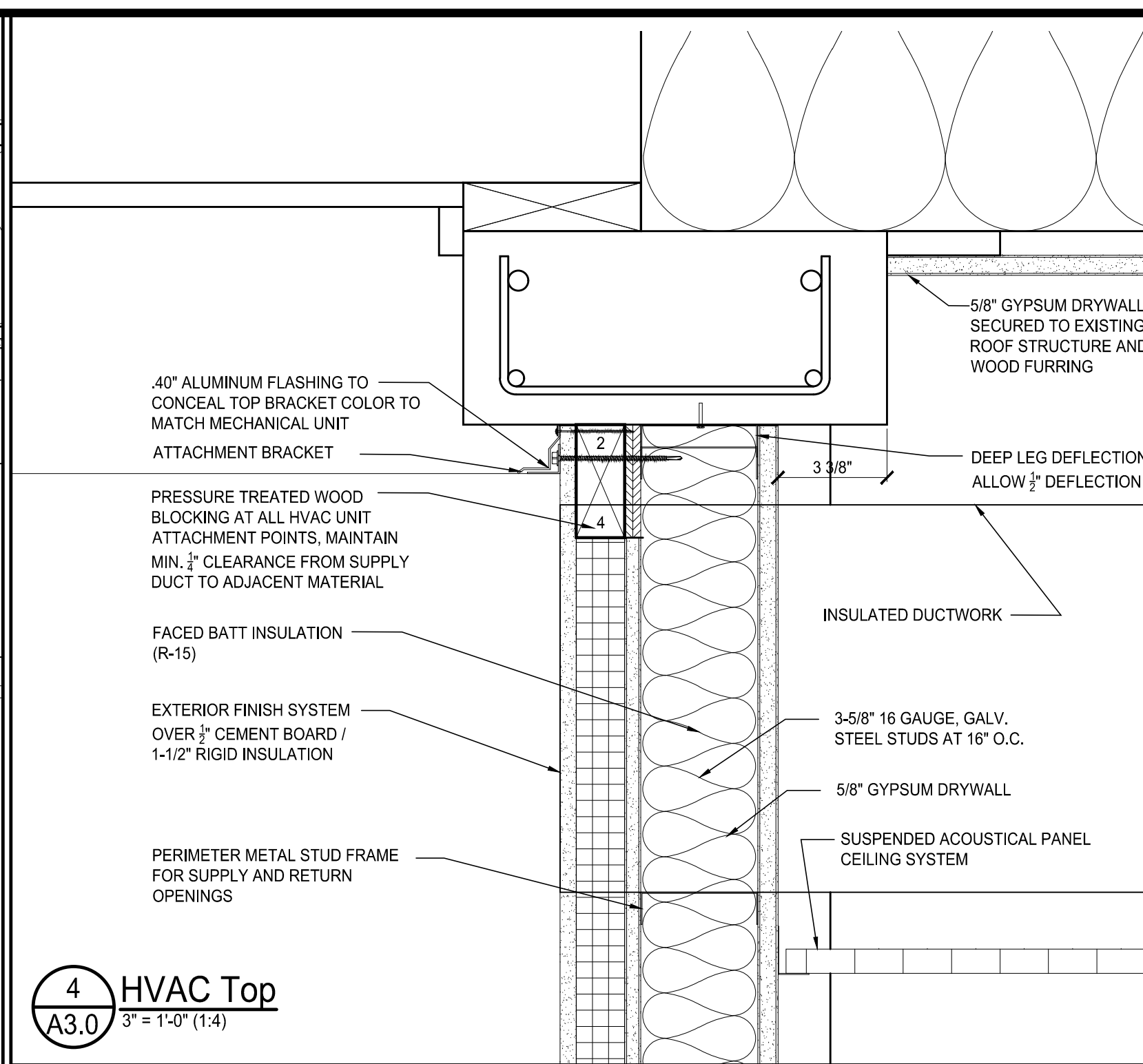
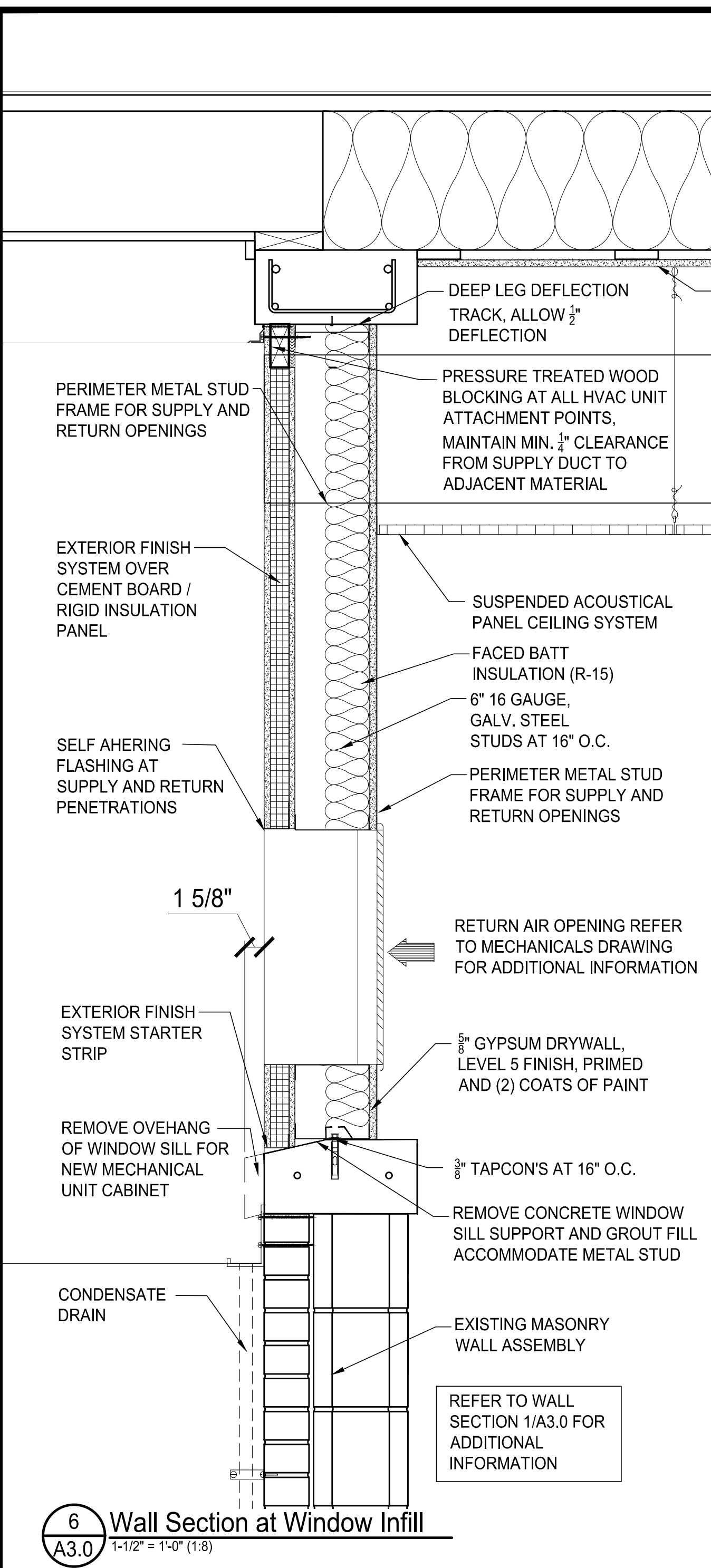
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RENOVATIONS FOR BUILDING 1

**PINKNEY ACADEMY
MOORE COUNTY SCHOOLS**

160 Pinkney Rd. Carthage, North Carolina 28327

SHEET NO.
A2.0



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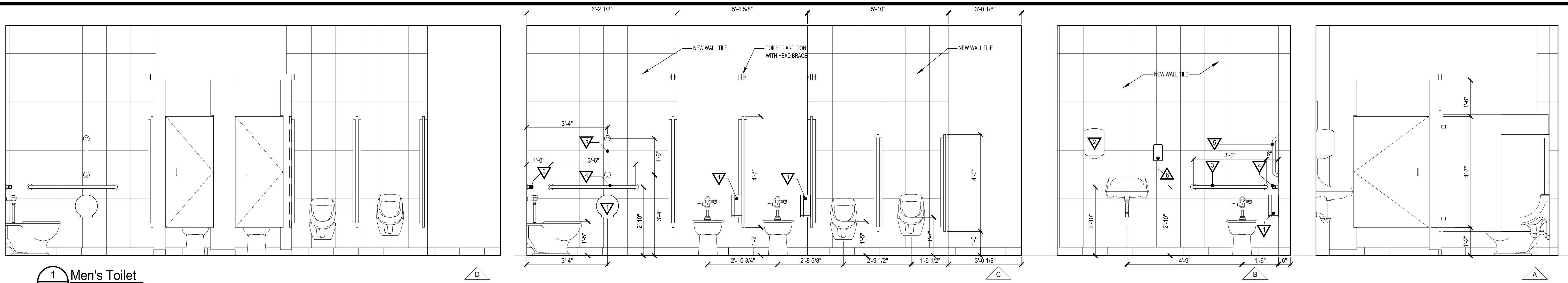
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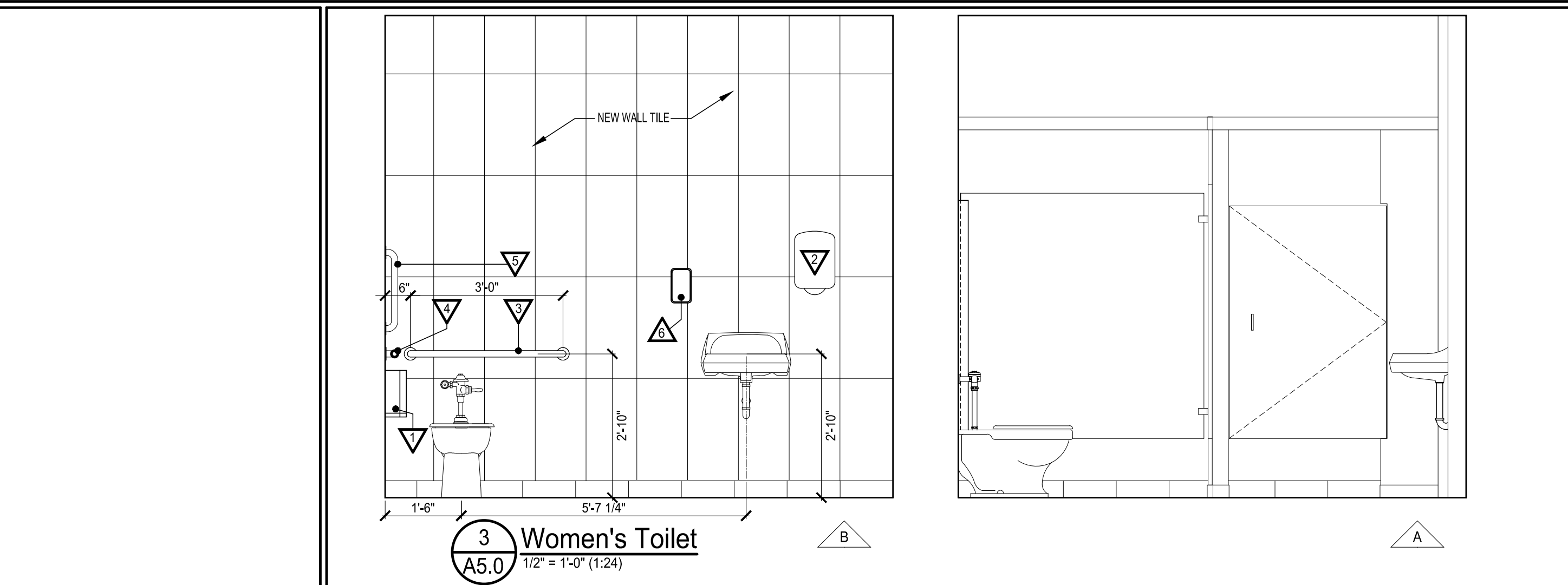
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RENOVATIONS FOR BUILDING 1
PINKNEY ACADEMY
MOORE COUNTY SCHOOLS
160 Pinkney Rd. Carthage, North Carolina 28327

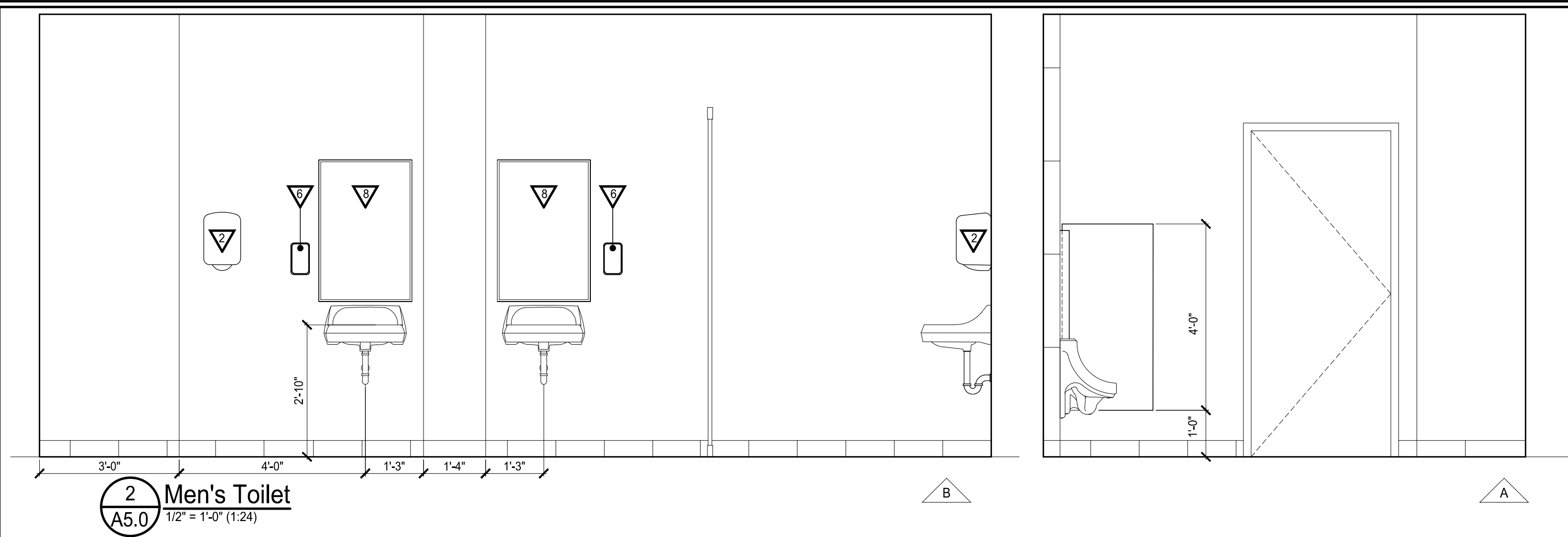
SHEET NO.
A3.0



1 Men's Toilet
A5.0
1/2" = 1'-0" (1:24)



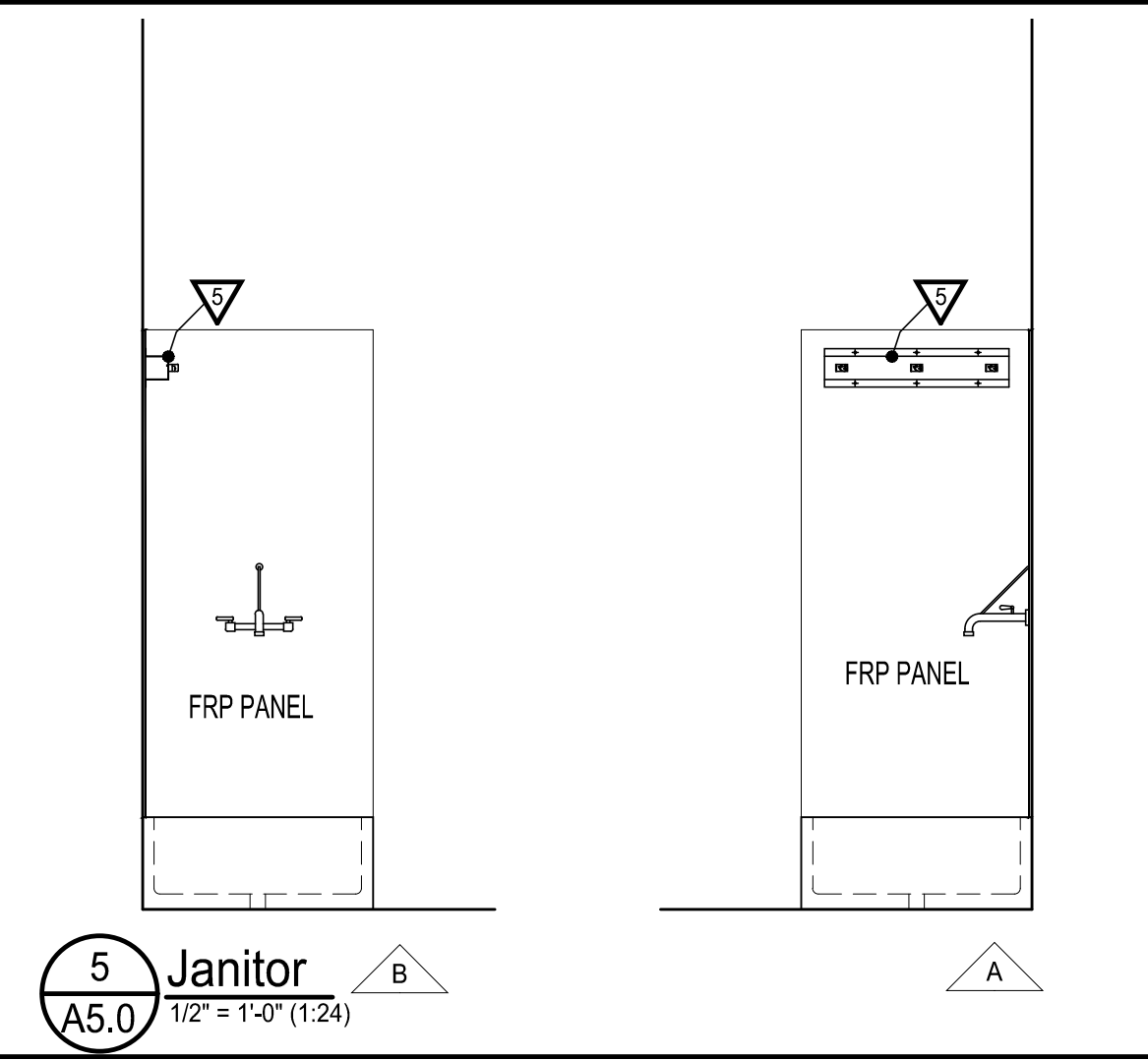
3 Women's Toilet
A5.0
1/2" = 1'-0" (1:24)



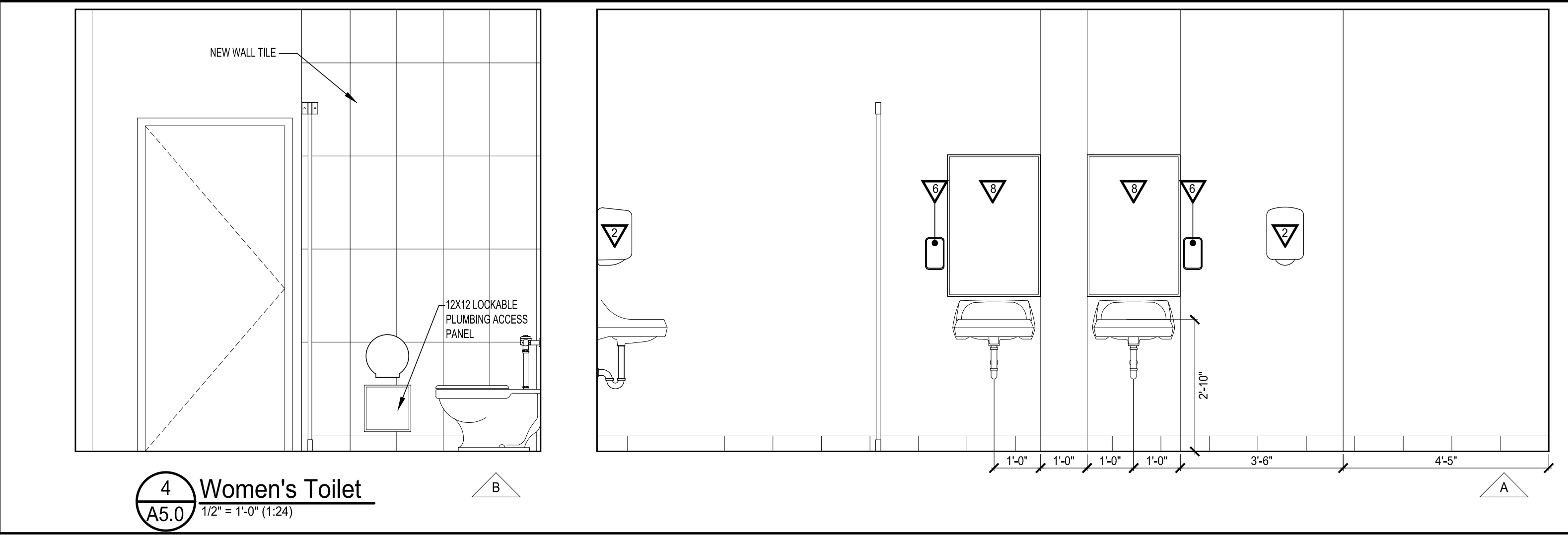
2 Men's Toilet
A5.0
1/2" = 1'-0" (1:24)

TOILET ACCESSORY SCHEDULE

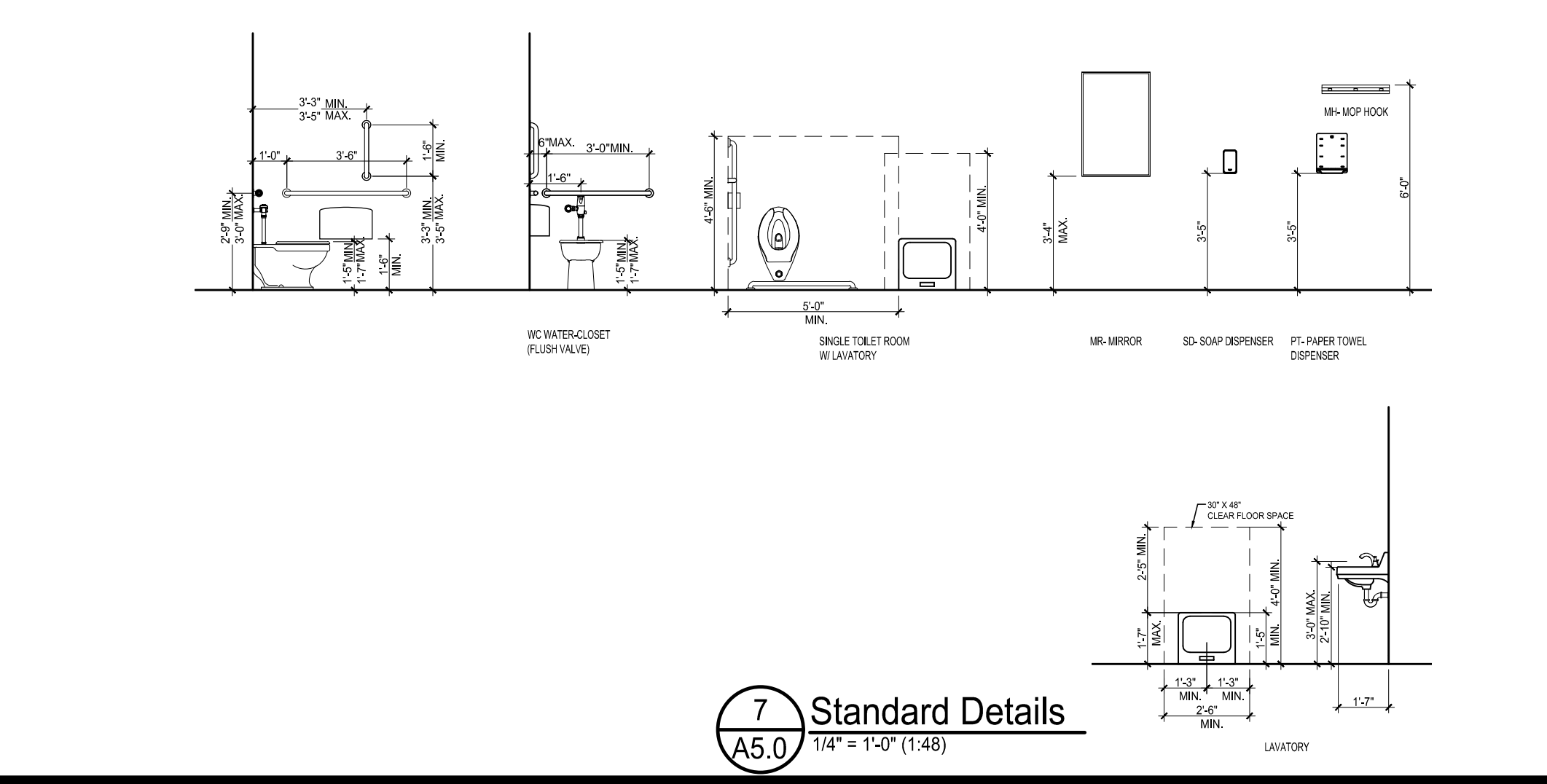
ITEM	CATALOG NUMBER OR DESCRIPTION	MOUNTING HEIGHT	REMARKS
1	SURFACE MOUNTED TOILET TISSUE DISPENSER	TOP AT 30" A.F.F.	SUPPLIED BY OWNER INSTALLED BY GC
2	SURFACE MOUNTED PAPER TOWEL DISPENSER	OUTLET @ 48" A.F.F.	SUPPLIED BY OWNER INSTALLED BY GC
3	GRAB BAR - 42" SIDEWALL MOUNTED	BOBRICK B-5806.99X42 W/ PEENED GRIPPING SURFACE	CENTER LINE @ 34" A.F.F. STAINLESS STEEL MOUNTING KIT W/ CONCEALED FASTENERS
4	GRAB BAR - 36" BACKWALL MOUNTED	BOBRICK B-5806.99X36 W/ PEENED GRIPPING SURFACE	CENTER LINE @ 34" A.F.F. STAINLESS STEEL MOUNTING KIT W/ CONCEALED FASTENERS
5	GRAB BAR - VERTICAL 18" SIDEWALL MOUNTED	BOBRICK B-5806.99X18 W/ PEENED GRIPPING SURFACE	CENTER LINE @ 34" A.F.F. STAINLESS STEEL MOUNTING KIT W/ CONCEALED FASTENERS
6	SURFACE MOUNTED SOAP DISPENSER	OUTLET @ 48" A.F.F.	SUPPLIED BY OWNER INSTALLED BY GC
7	SURFACE MOUNTED SANITARY NAPKIN RECEPTACLE	BOBRICK B-5270	TOP @ 30" A.F.F. -
8	MIRROR 24" x 36"	BOBRICK B-1556 1824	BOTTOM @ 40" A.F.F. MAX -
9	24" MOP AND BROOM HOLDER	BOBRICK B-223X24	TOP @ 72" A.F.F. -



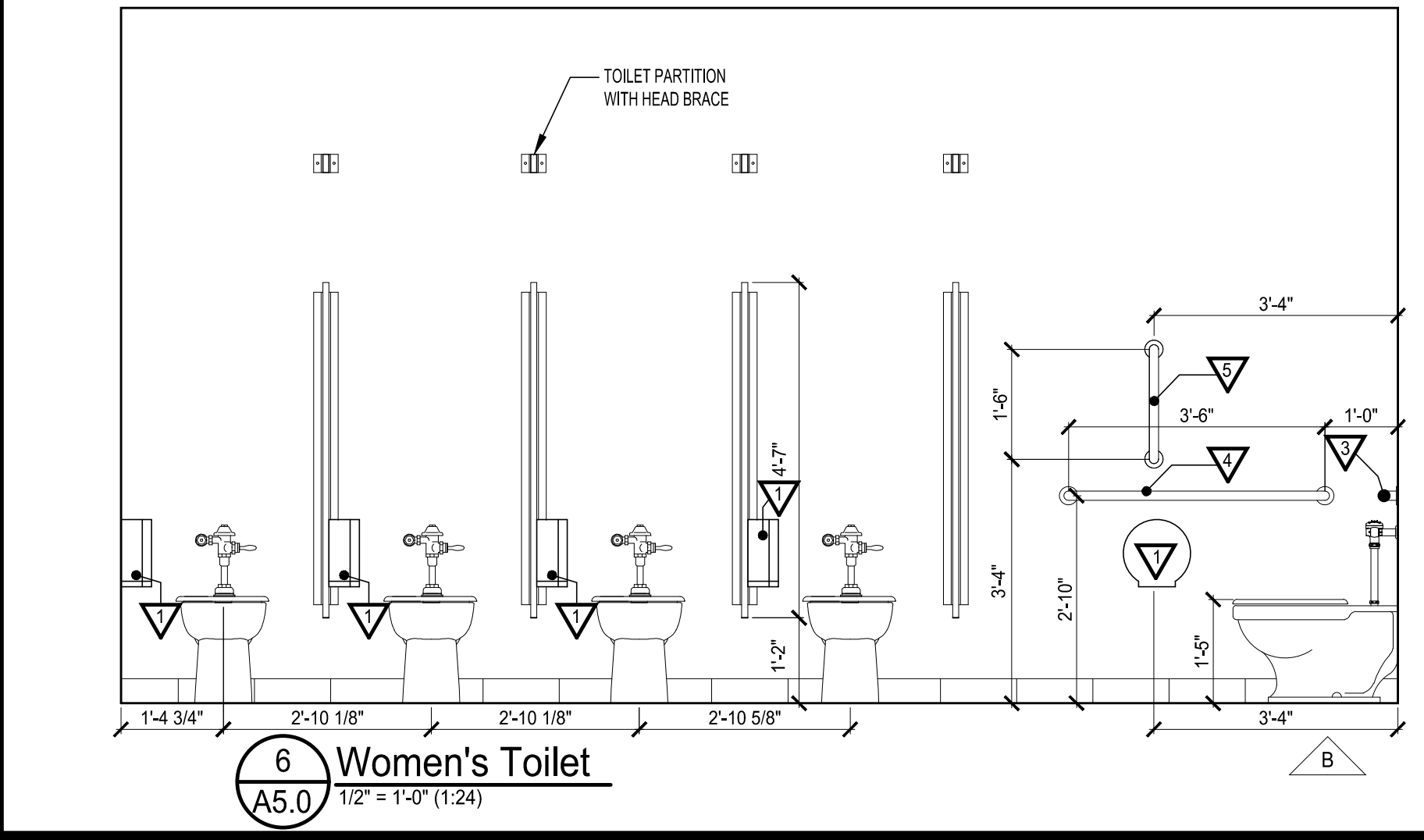
5 Janitor
A5.0
1/2" = 1'-0" (1:24)



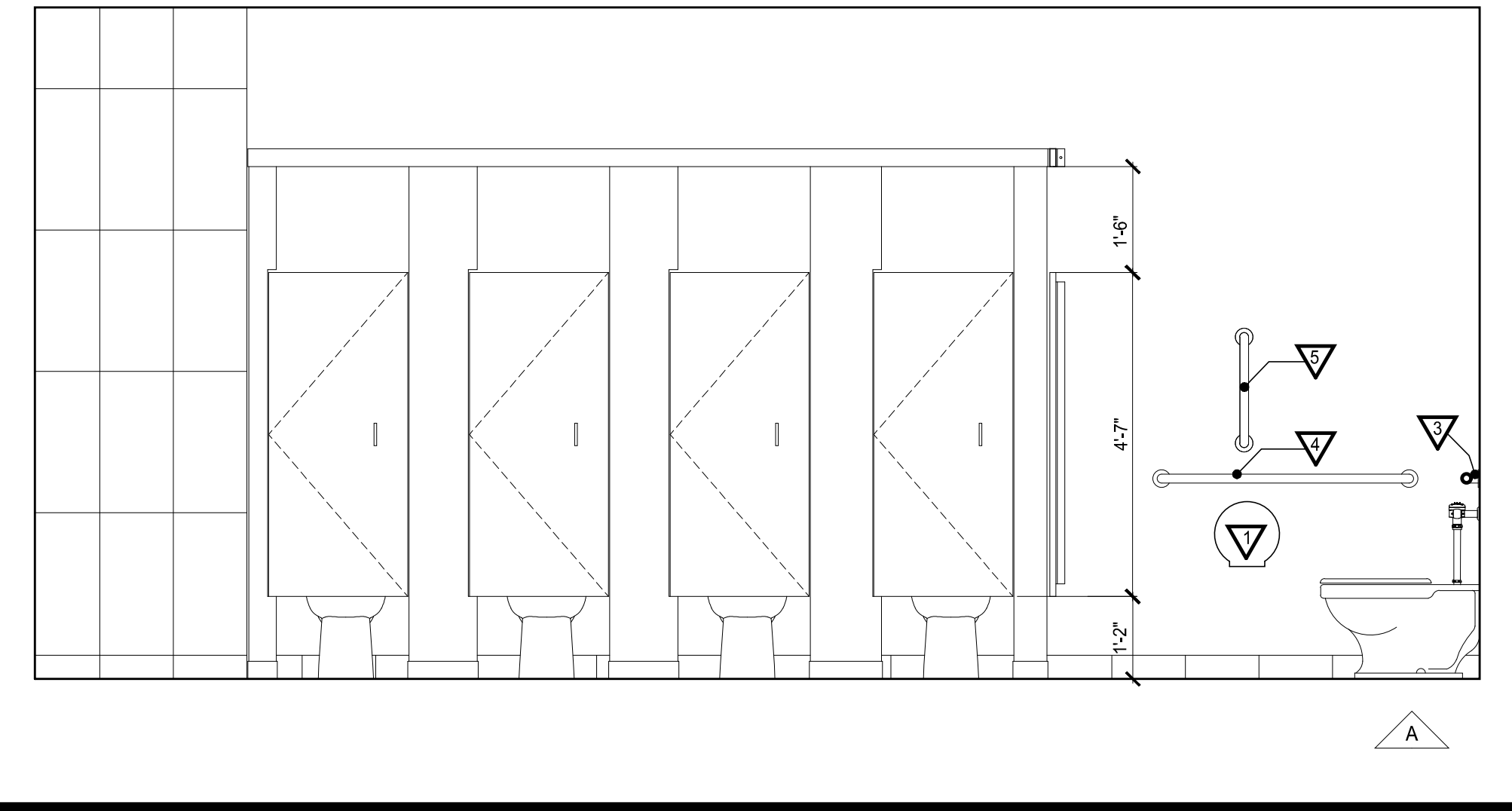
4 Women's Toilet
A5.0
1/2" = 1'-0" (1:24)



7 Standard Details
A5.0
1/4" = 1'-0" (1:48)



6 Women's Toilet
A5.0
1/2" = 1'-0" (1:24)



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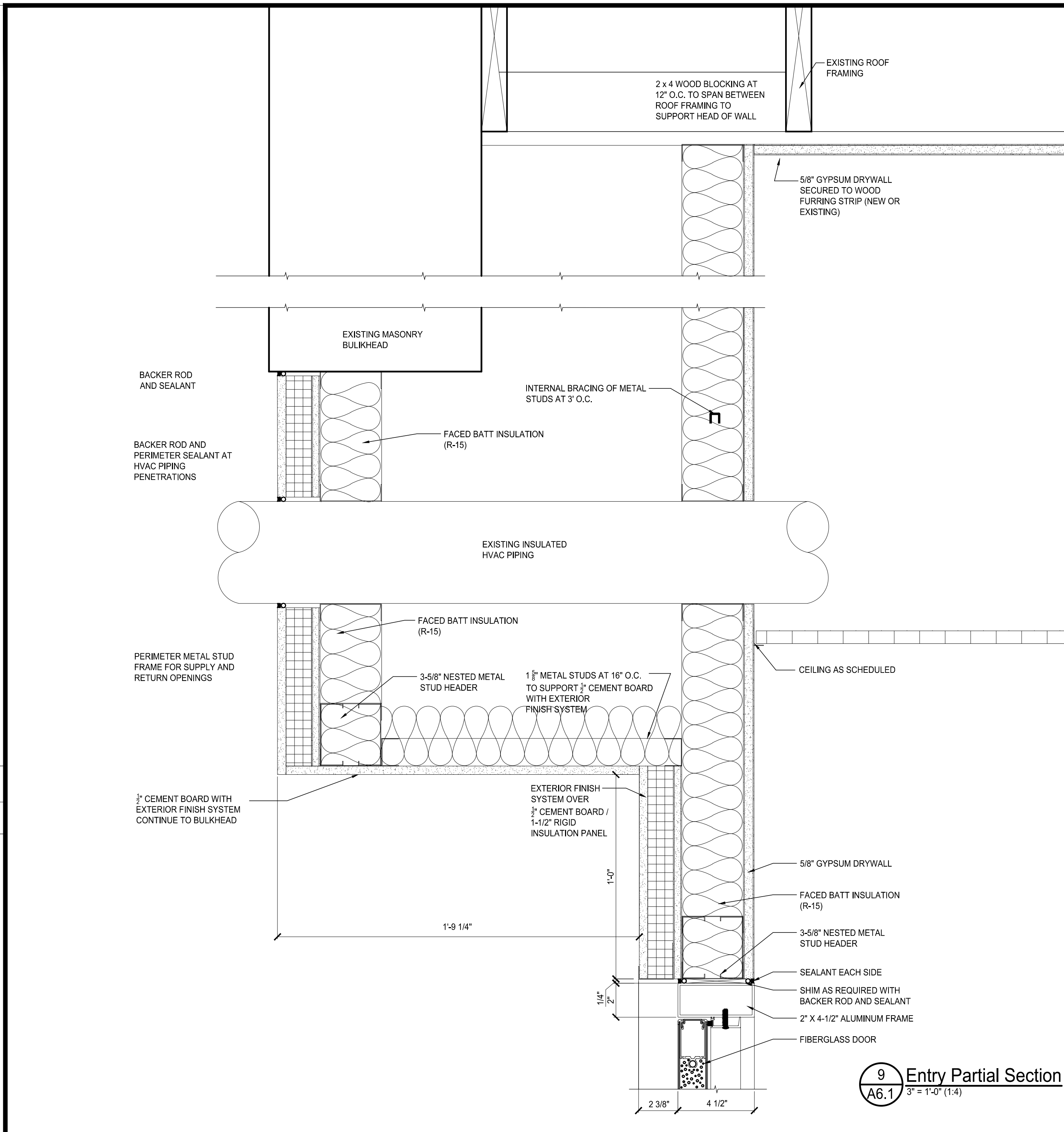
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HIGH POINT, NC 27265
4-4-24

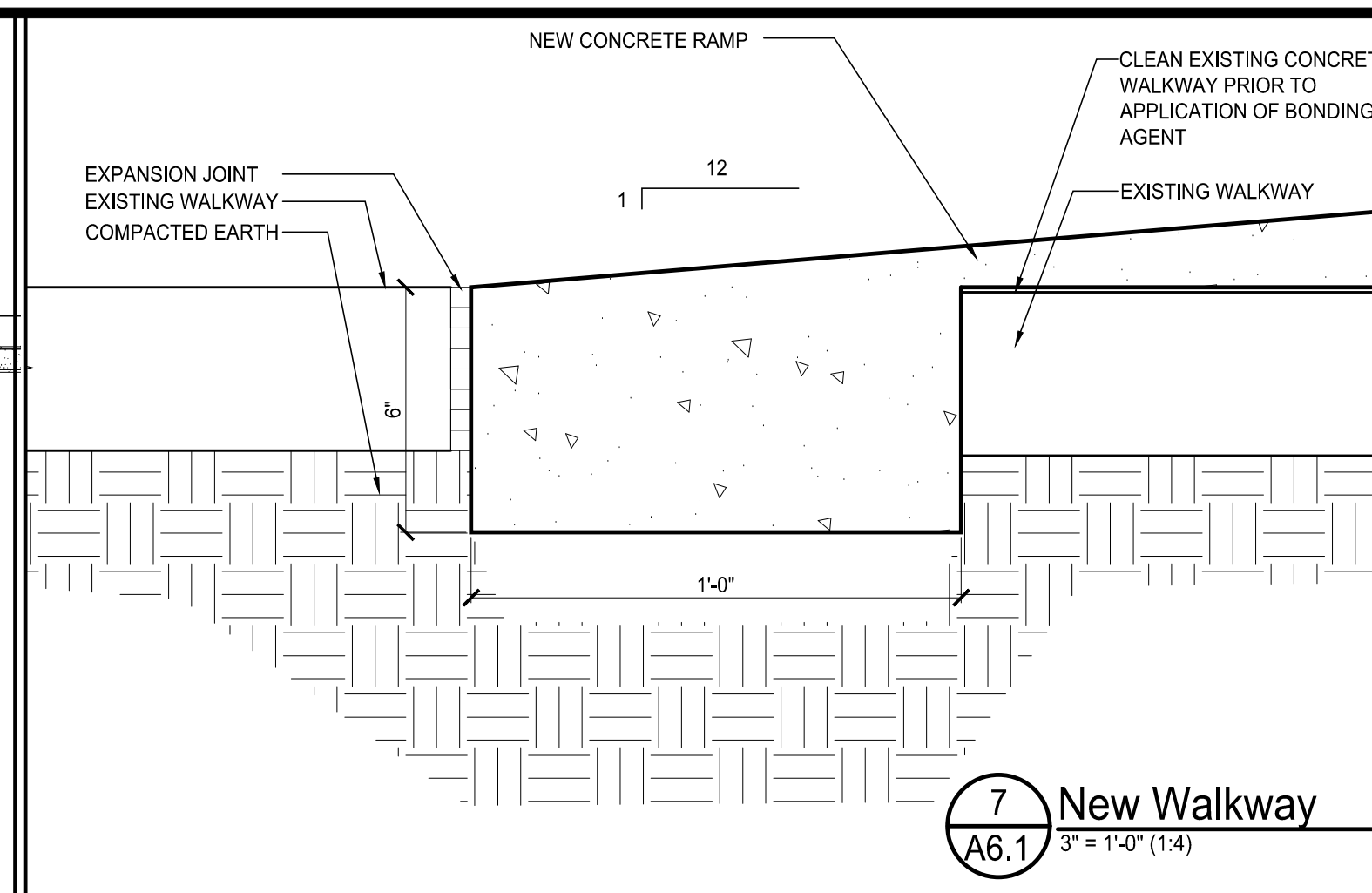
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RENOVATIONS FOR BUILDING 1
PINKNEY ACADEMY
MOORE COUNTY SCHOOLS
160 Pinckney Rd. Carthage, North Carolina 28327

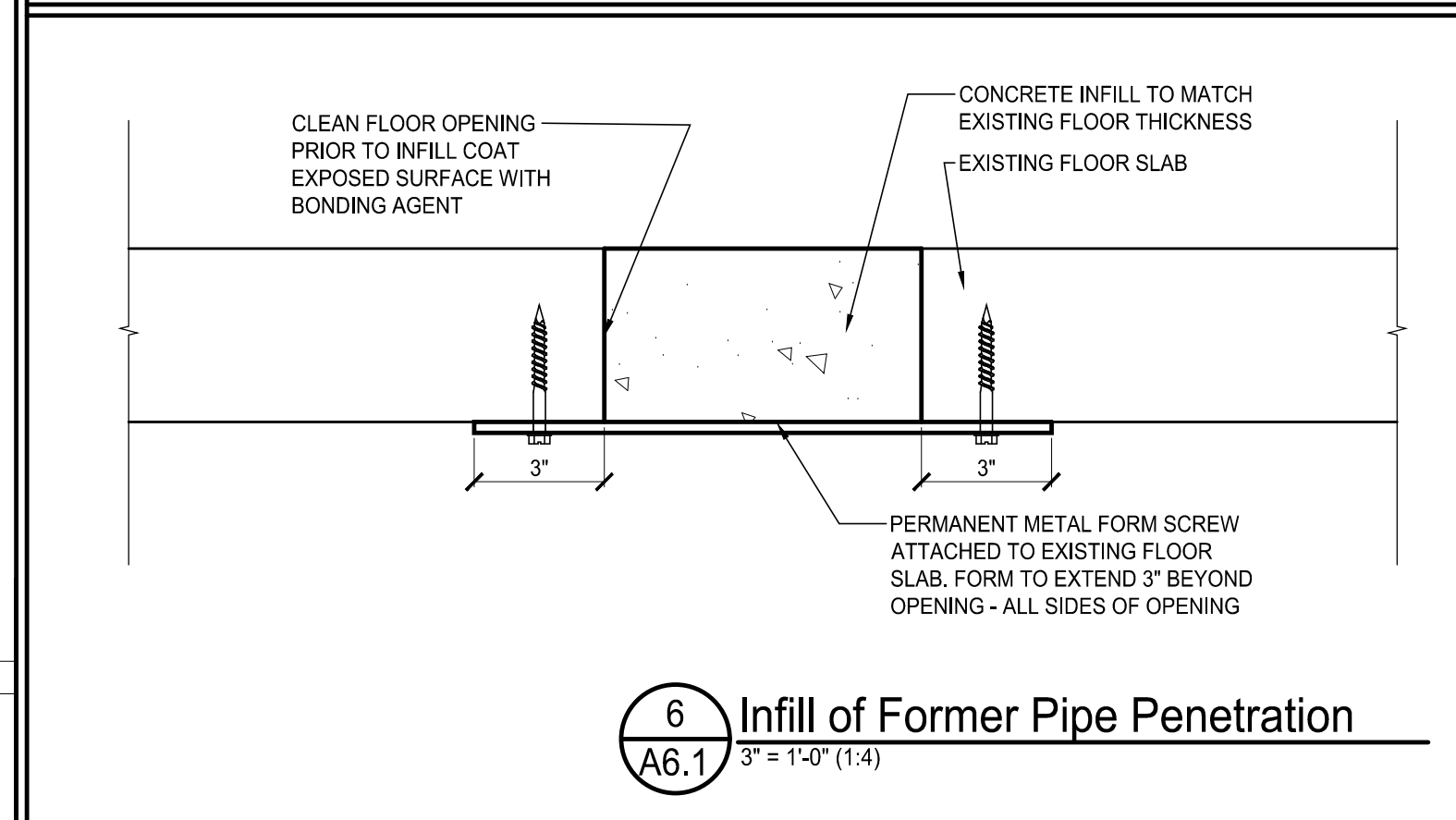
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A5.0



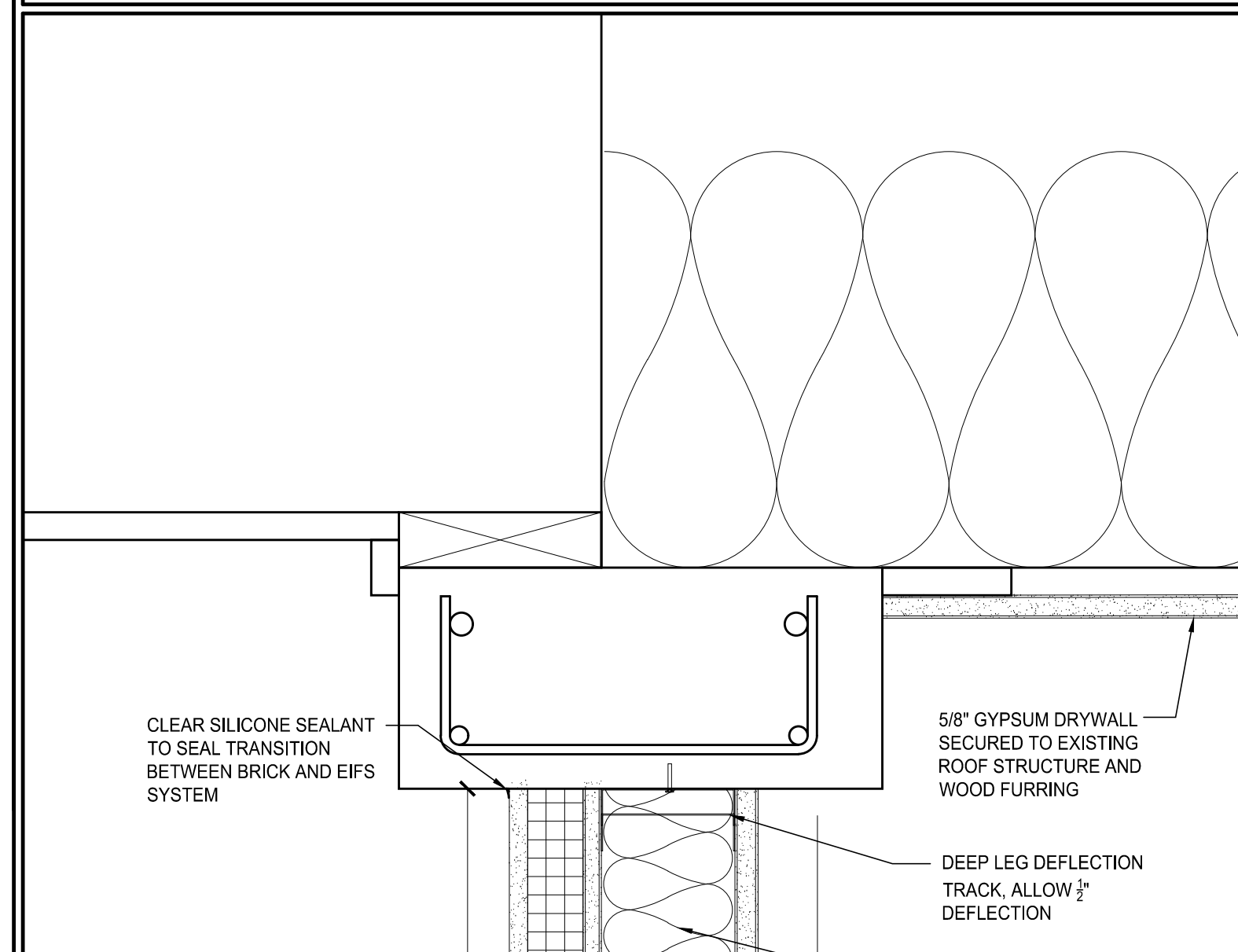
9 Entry Partial Section
A6.1 3' = 1'-0" (1:4)



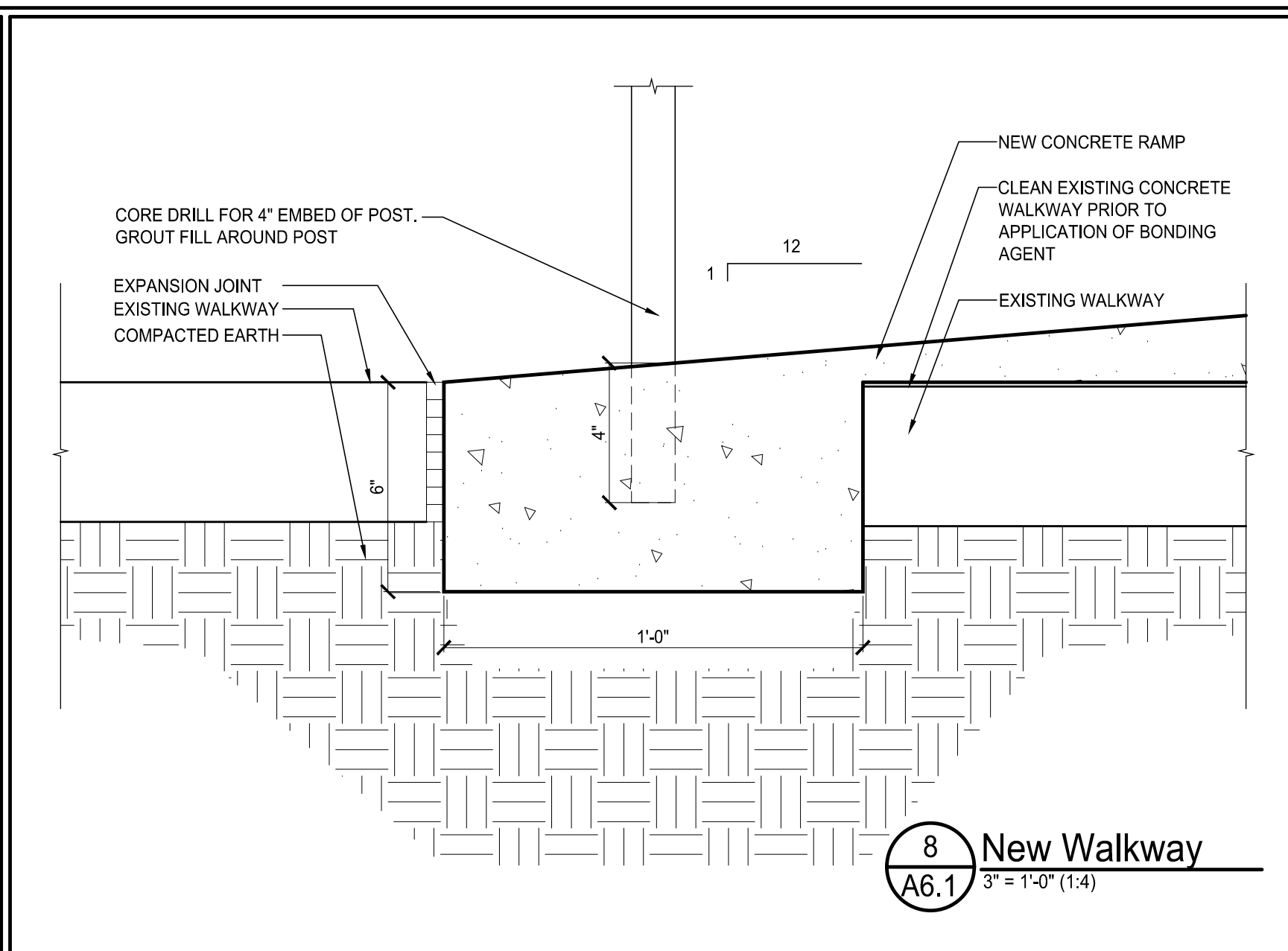
7 New Walkway
A6.1 3' = 1'-0" (1:4)



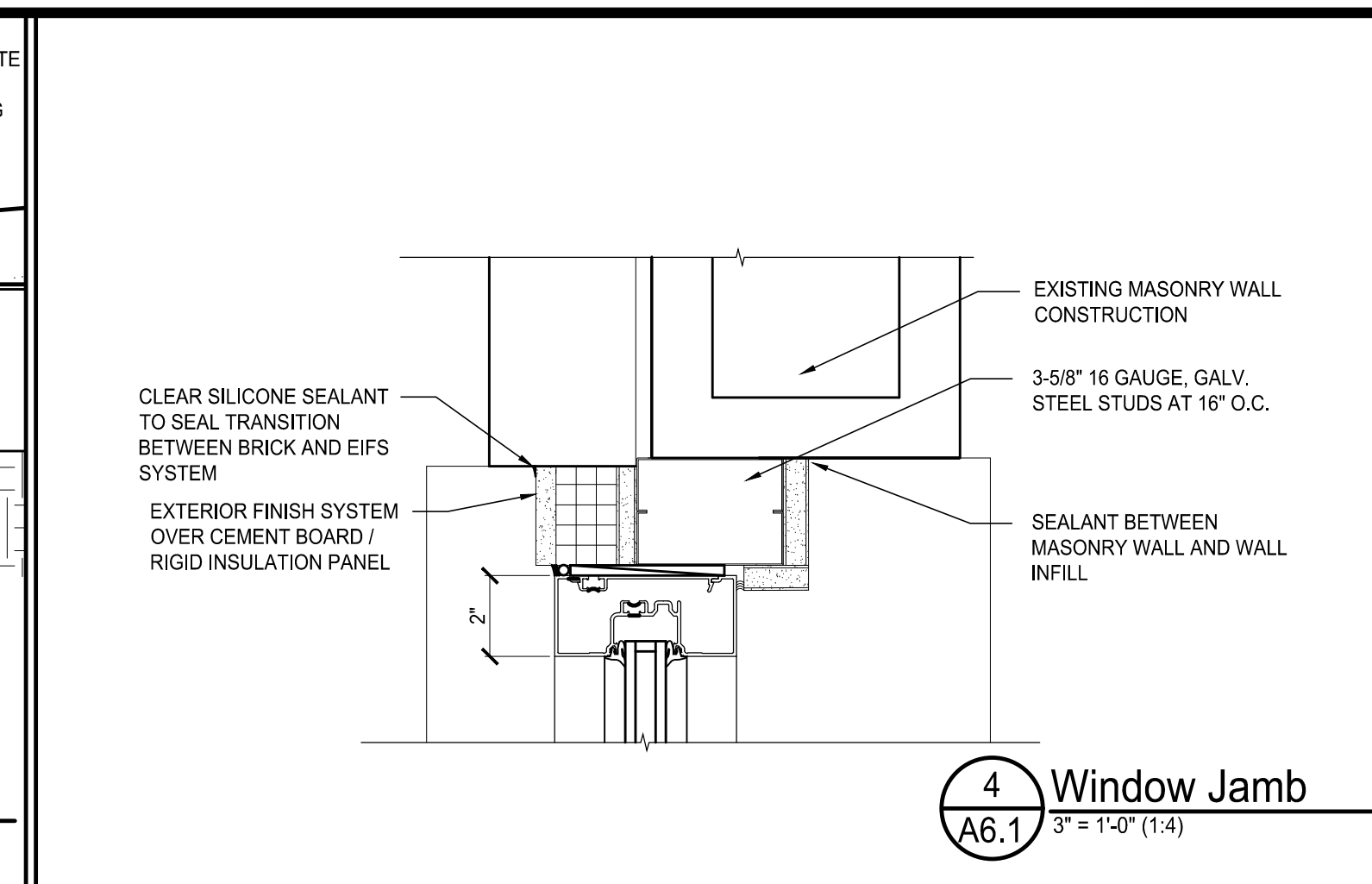
6 Infill of Former Pipe Penetration
A6.1 3' = 1'-0" (1:4)



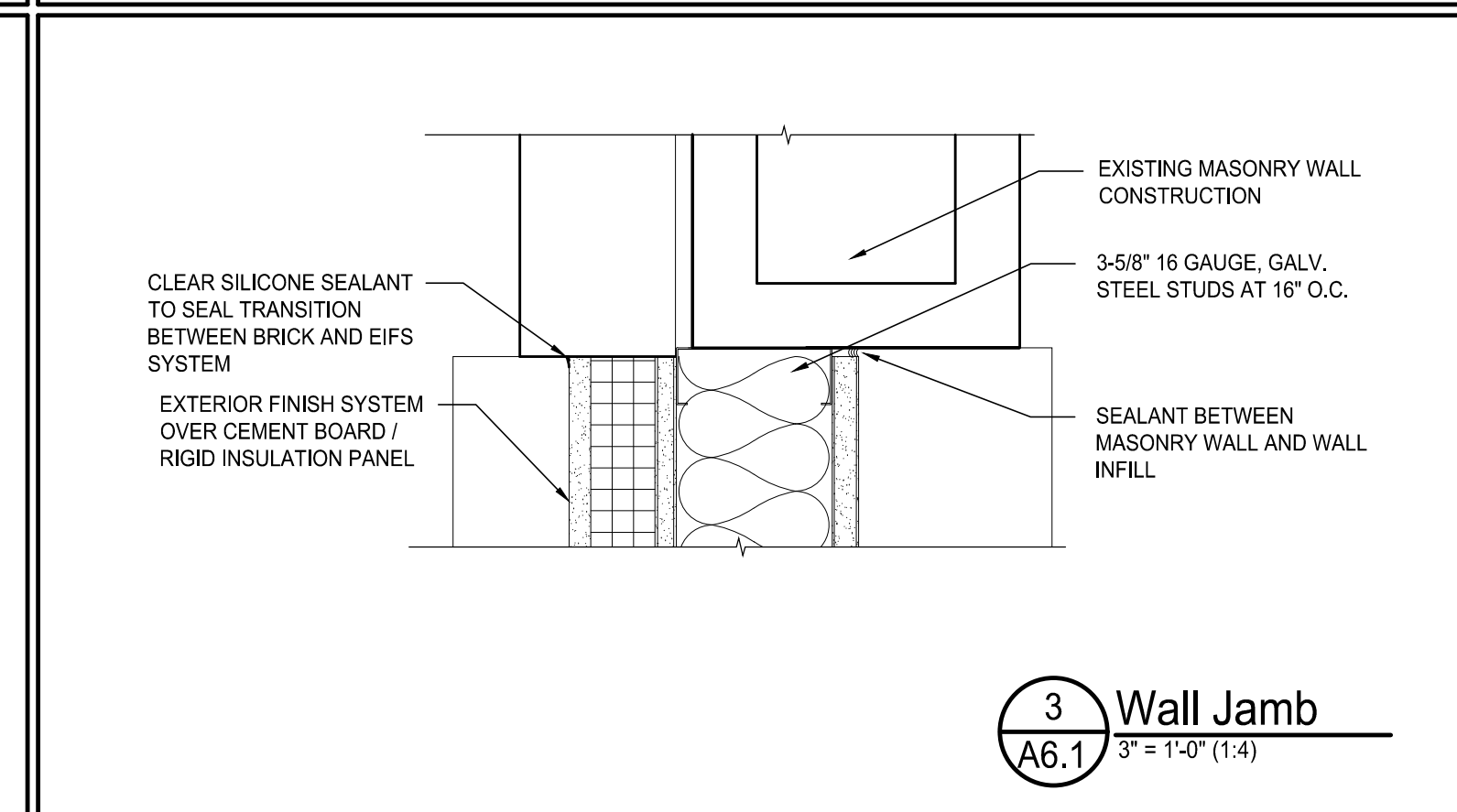
5 Window Head
A6.1 3' = 1'-0" (1:4)



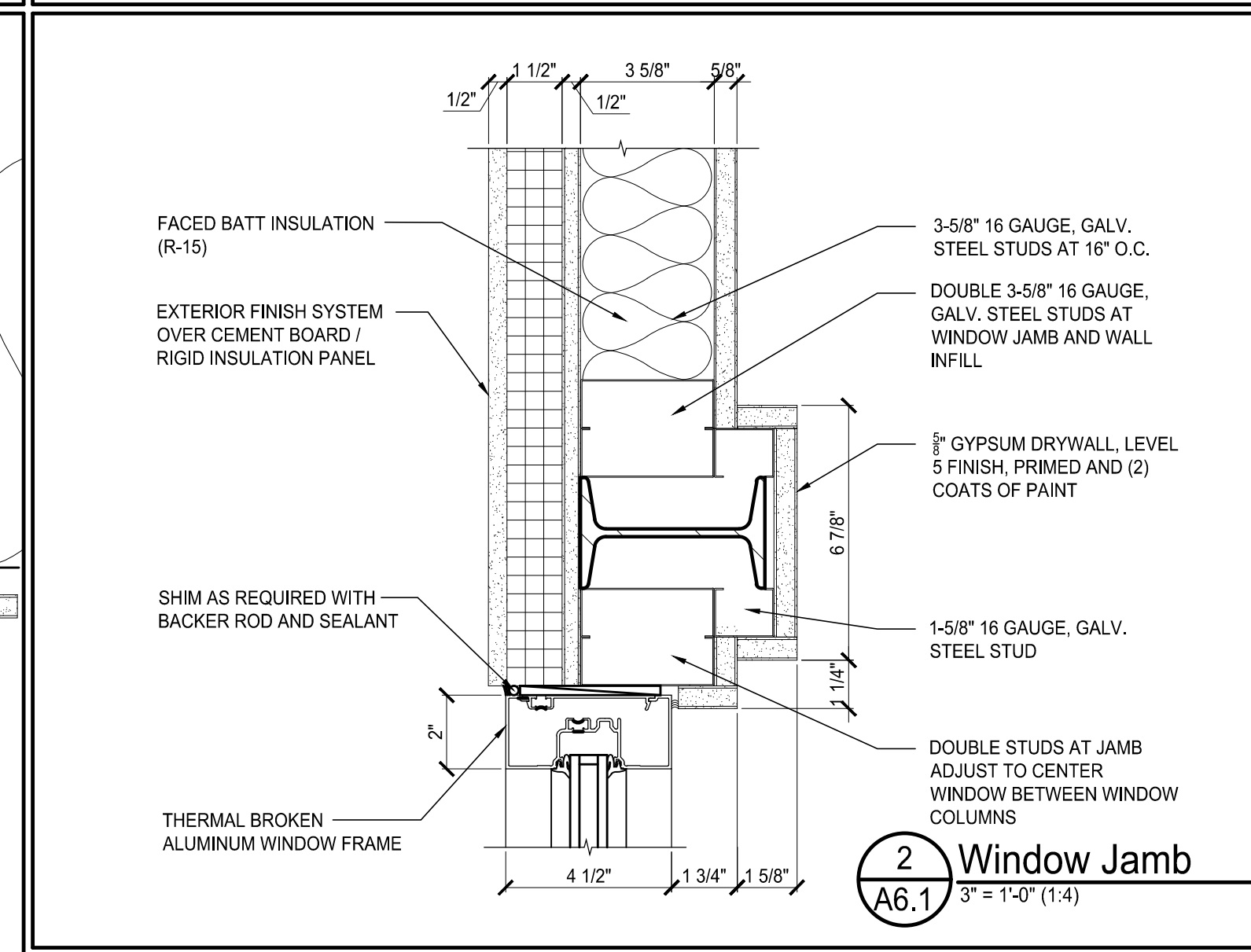
8 New Walkway
A6.1 3' = 1'-0" (1:4)



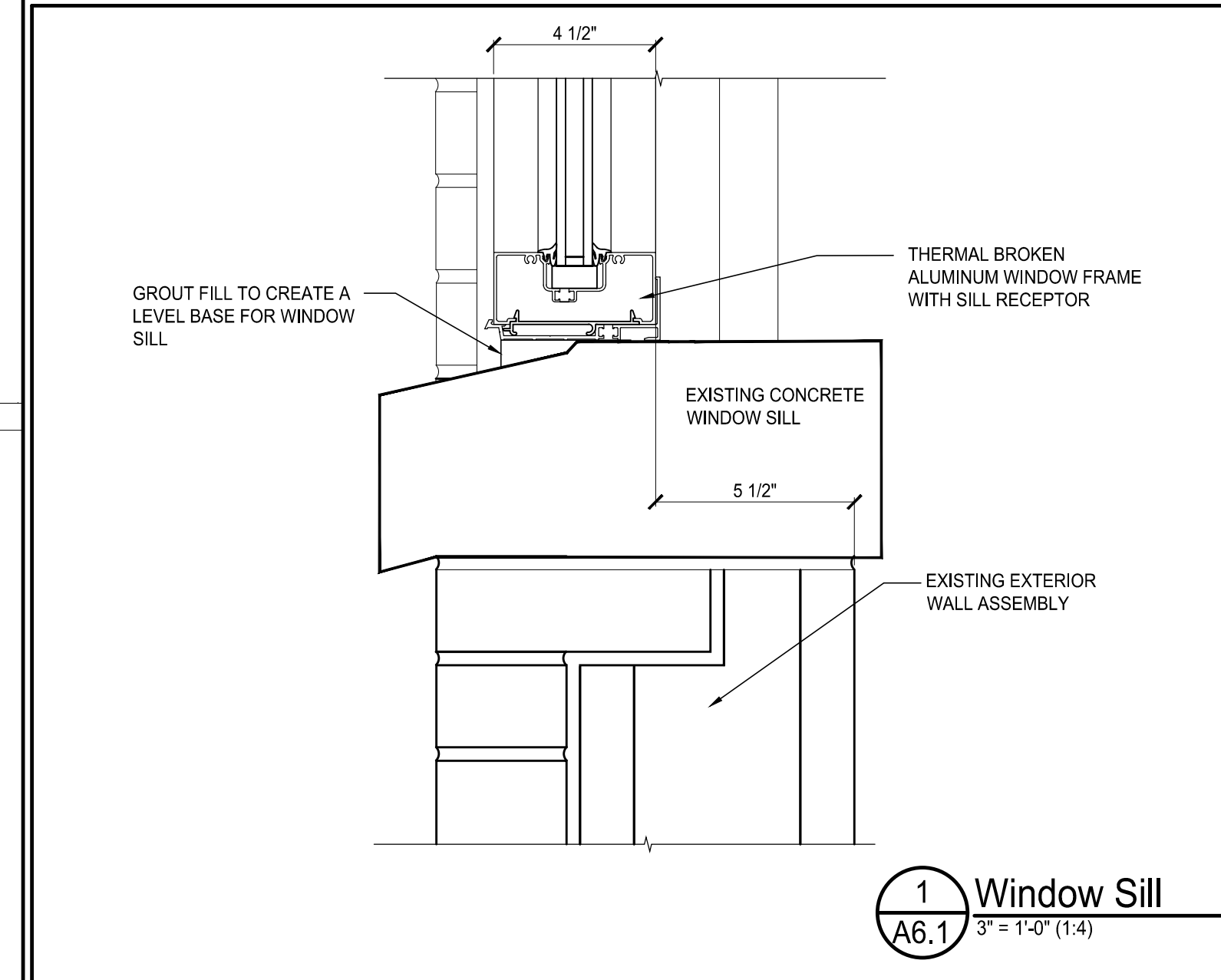
4 Window Jamb
A6.1 3' = 1'-0" (1:4)



3 Wall Jamb
A6.1 3' = 1'-0" (1:4)



2 Window Jamb
A6.1 3' = 1'-0" (1:4)



1 Window Sill
A6.1 3' = 1'-0" (1:4)

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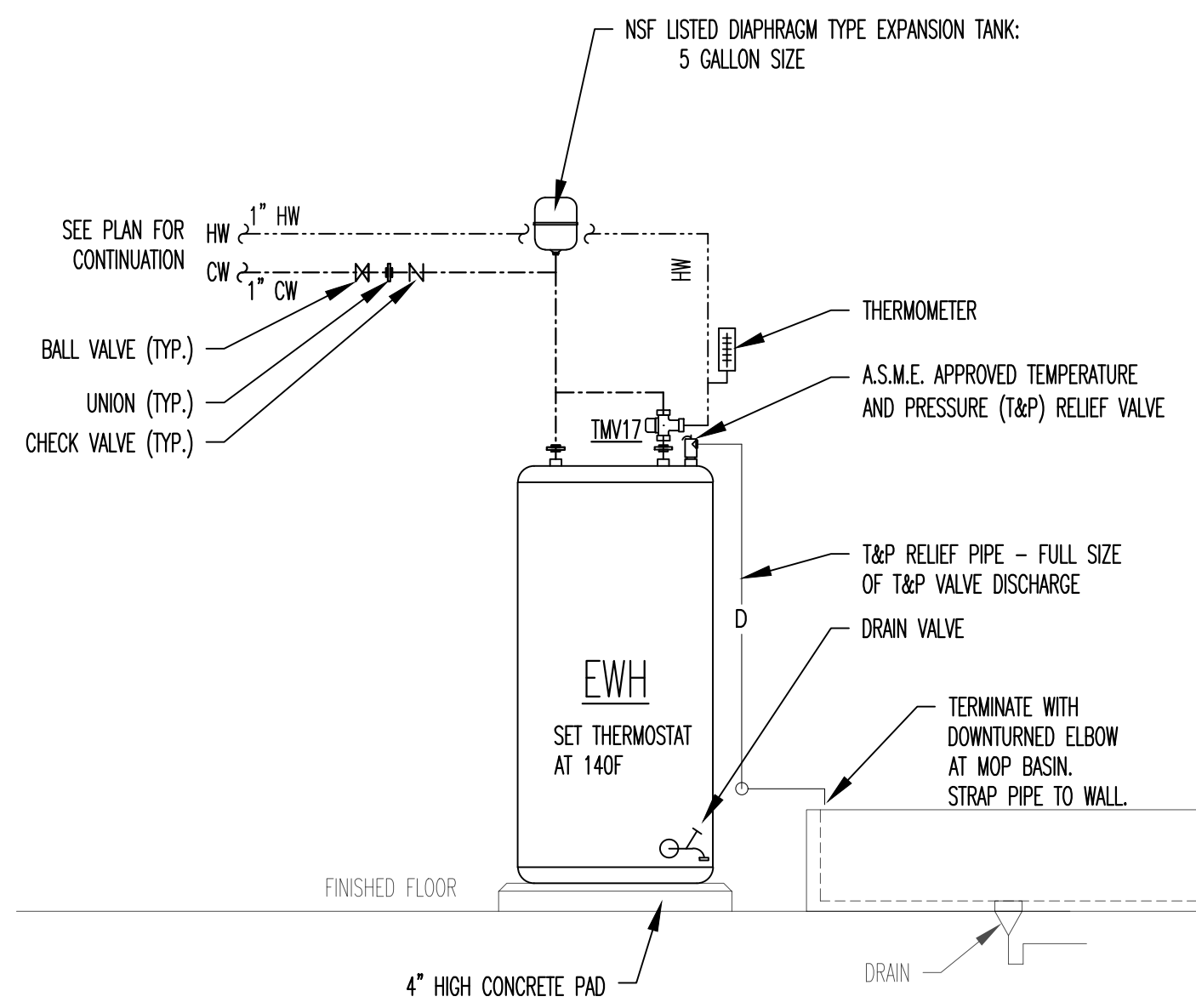
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RENOVATIONS FOR BUILDING 1
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MOORE COUNTY SCHOOLS**
160 Pinckney Rd. Carthage, North Carolina 28327

SHEET NO.
A6.1



1 WATER HEATER DETAIL
 PO.01 SCALE: NONE

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	FIXTURE		TRIM 1		TRIM 2		REMARKS	CONNECTION SIZES			
		MANU FACTURER	MODEL #	MANU FACTURER	MODEL #	MANU FACTURER	MODEL #		WASTE	VENT	COLD WATER	HOT WATER
P1, P1A	WATER CLOSET FLOOR MOUNTED FLUSH VALVE MANUAL LEVER ACTUATED	EQUAL TO ZURN	Z5956SS-BWL1-AM	EQUAL TO ZURN	Z5956SS-AM-STSELTO HEAVY DUTY WHITE POLYPROPYLENE WITH ANTIMICROBIAL SURFACE SEAT. NO COVER	EQUAL TO ZURN	Z6200-WS1-1.6 GPF MANUALLY OPERATED FLUSH VALVE	WHITE VITREOUS CHINA BOWL 16.75" RIM HIGH WITH ANTIMICROBIAL SURFACE GLAZE. MANUAL 1.6 GAL PER FLUSH VALVE. CHROME PLATED BRASS SUPPLY TUBE COVER AND SUPPLY CHECK/STOP VALVE. PLUS OPEN FRONT WHITE PLASTIC SEAT W/CHECK HINGES.	3"	2"	1"	-
P2, 2A	URINAL FLUSH VALVE BARRIER FREE MANUAL LEVER ACTUATED	EQUAL TO AMERICAN STANDARD	"WASHBROOK" 6590.001EC	SLOAN	ROYAL 186 0.125 GPF MANUALLY OPERATED FLUSH VALVE			WHITE VITREOUS CHINA WITH EVERCLEAN SURFACE. WALL MOUNTED UNIT WITH FLUSH VALVE AND WALL MOUNTING BRACKETS. 1/8 GAL PER FLUSH. INSTALL #A FIXTURE PER ADA REQUIREMENTS.	2	2	3/4"	-
P3, 3A	LAVATORY WALL MOUNTED VITREOUS CHINA BARRIER FREE MANUAL FAUCET GRID STRAINER	EQUAL TO KOHLER	"KINGSTON" K-2005	EQUAL TO MAINLINE	ML10294 BRASS BODY AND 17 GA BRASS BRASS STRAINER AND TAILPIECE	EQUAL TO DELTA	501LF-HGMHDF 0.5 GPM THERMOSTATIC + ASSE 1070 MIX VALVE.	WALL MOUNTED VITREOUS CHINA SINK WITH OVERFLOW AND FAUCET HOLES. 21.25"x18.125" PROVIDE CHROME PLATED BRASS TAILPIECE OUTLET WITH GRID STRAINER, CHROME PLATED BRASS SUPPLIES, STOPS AND P-TRAP. PROVIDE ASSE 1070 MIXING VALVE (TMV70) FOR HW - SET FOR 110F. INSTALL #A FIXTURE PER ADA REQUIREMENTS.	1-1/2"	1-1/2"	1/2"	1/2"
P4	PRECAST MOP BASIN WITH WALL FAUCET, MOP RACK, HOSE AND HOSE END BRACKET	EQUAL TO FIAT	TSB3000 BASIN 1239BB GUARD, 1453BB STRAINER 833AA SEALANT, MSG WALL GUARDS	EQUAL TO FIAT	830AA WALL FAUCET W/VACUUM BRKR PAIL HOOK, & WALL BRACE. 832AA HOSE&BRKT. 889CC MOP HANGER			FLOOR MOUNTED CAST TERRAZO 24"x24"x24"H MOP BASIN WITH STAINLESS STEEL CAPPED CURB. EQUIPPED WITH STRAINER, FAUCET, HOSE AND BRACKET, MOP HANGER. PROVIDE (2) STAINLESS STEEL WALL GUARDS, SEAL ALL GAPS AT WALLS AND FLOOR.	3	2	1/2"	1/2"

- NOTES**
- ROUGH-IN SIZES TO FIXTURES ARE TO BE AS SCHEDULED UNLESS LARGER SIZE SHOWN ON PLAN.
 - UNDER-SLAB WASTE FIXTURE DRAIN SHALL BE MINIMUM 2" PIPE SIZE.
 - WATER CLOSET HANDLES ARE TO BE ON INSTALLED ON THE OPEN (ACCESSIBLE) SIDE OF THE FIXTURE.

PLUMBING EQUIPMENT SCHEDULE

MARK	EQUIPMENT DESCRIPTION
CO	CLEANOUT. ZURN MODEL Z-1440-BP DCCI BODY CLEANOUT FERRULE WITH BRONZE PLUG. OR EQUAL BY JOSAM, SMITH, WATTS.
FD	FLOOR DRAIN. ZURN MODEL ZN-415-6S DCCI BODY, SQUARE NICKEL BRONZE STRAINER, ADJUSTABLE TYPE OR EQUAL BY JOSAM, SMITH OR WATTS.
HB	HOSE BIBB. WOODFORD MODEL 24PC, POLISHED CHROME FINISH WITH LOOSE TEE KEY. OR EQUAL BY JOSAM OR ZURN OR WATTS.
TMV17	3-PORT THERMOSTATIC WATER MIXING VALVE. ASSE 1017 LISTED. EQUAL TO WATTS LFMMV-HTK WITH CHECKS, INLET SCREENS, LOCKING ADJUSTMENT NUT, . OR EQUAL BY BRADLEY, HOLBY, LEONARD, POWERS, SYMMONS, OR . SET FOR 120F.
TMV70	POINT OF USE 4-PORT THERMOSTATIC WATER MIXING VALVE. ASSE 1070 LISTED. EQUAL TO WATTS LFUSG-B-SC WITH CHECK STOPS, INLET SCREENS, LOCKING ADJUSTMENT NUT, SATIN CHROME FINISH. OR EQUAL BY BRADLEY, HOLBY, LEONARD OR SYMMONS. SET FOR 110F.
WHA	WATER HAMMER ARRESTOR WITH ACCESS DOOR. LEAD FREE WATTS SERIES LF15M2 OR EQUAL BY PPP, SMITH OR SIOUX CHIEF. SIZE AND TYPE FOR BRANCH FIXTURE UNIT LOADS AS FOLLOWS: 3/4" TYPE-A FOR 1-11 FIXTURE UNITS, 3/4" TYPE-B FOR 12-32 FIXTURE UNITS, 1" TYPE-C FOR 33-60 FIXTURE UNITS, 1" TYPE-D FOR 61-113 FIXTURE UNITS, 1" TYPE-E FOR 114-154 FIXTURE UNITS, 1" TYPE-F FOR 155-330 FIXTURE UNITS.

PLUMBING NOTES

- DEMOLISH EXISTING PLUMBING FIXTURES IN RENOVATED AREA. MODIFY WATER, WASTE, AND VENT PIPING AS SHOWN AND AS REQUIRED TO CONNECT TO EXISTING SYSTEMS.
- ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH THE CURRENT N.C. STATE BUILDING CODE AND LOCAL CODES AND ORDINANCES. PAY ALL FEES, OBTAIN ALL PERMITS, AND ARRANGE ALL REQUIRED INSPECTIONS OF WORK REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- FIELD VERIFY ALL UTILITY LOCATIONS, SIZES, AND INVERTS PRIOR TO INSTALLING NEW WORK.
- ROD EXISTING SEWER LINES CLEAR TO THE BUILDING DRAIN FROM EACH CLEANOUT AND ENSURE THAT THE BUILDING DRAIN IS CLEAR TO THE FIRST MANHOLE.
- CUT AND PATCH FLOORS, WALLS, CEILINGS, ETC. AS REQUIRED TO EXPOSE AND ACCESS EXISTING WASTE PIPING TO MAKE NEW CONNECTIONS.
- MAKE CONNECTIONS TO EXISTING WASTE PIPING BY CUTTING AND REMOVING A SECTION AND ADDING A WYE FITTING SECURED TO ADJACENT PIPE ENDS WITH HEAVY DUTY NO-HUB BANDS WITH STAINLESS STEEL CLAMPS.
- VERIFY EXISTING WASTE MAIN IS CLEAR TO MANHOLE AFTER COMPLETING RENOVATION WORK.
- WATER PIPING ABOVE GRADE SHALL BE TYPE L HARD COPPER. JOINTS SHALL BE MADE WITH LEAD FREE SOLDER.
- WATER VALVES SHALL BE FULL PORT BRONZE BODY BALL VALVES WITH THREADED OUTLET. PLUG UNUSED OUTLETS WITH BRONZE PLUG.
- TAG ALL VALVES WITH BRASS TAGS AND PROVIDE VALVE SCHEDULE INDICATING SERVICE AND LOCATION. MARK VALVE LOCATIONS WITH GREEN COLORED ADHESIVE DOT ON CEILINGS OR WALLS AT VALVES.
- PROVIDE ACCESS PANELS TO SHUTOFF VALVES, AIR ADMITTANCE VALVES, WATER HAMMER ARRESTERS, ETC LOCATED IN WALLS WITH NO OTHER MEANS OF ACCESS. ACCESS PANELS SHALL BE STEEL, 12x12 MINIMUM SIZE AND SHALL BE HINGED AND LOCKABLE.
- ABOVE GRADE COLD WATER AND INDIVIDUAL HOT WATER RUNOUT PIPING SHALL BE INSULATED WITH 1/2" THICKNESS PREFORMED FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. HOT WATER MAINS SHALL BE INSULATED WITH 1" THICK PREFORMED FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. ALL ABOVE GRADE PIPING IN UNCONDITIONED AREAS SHALL BE INSULATED WITH 2" THICK PREFORMED FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. PROVIDE FOAMGLASS INSULATION INSERTS AND GALVANIZED STEEL PIPE SHIELDS AT PIPE SUPPORTS.
- SANITARY AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON NO-HUB PIPE WITH DWV PATTERN FITTINGS.
- WASTE PIPING SHALL BE INSTALLED AT UNIFORM SLOPE WITH NO BELLIES, HAUNCHES, ROUGH ENDS, OR OTHER DEFECTS THAT COULD PROMOTE BLOCKAGE. MINIMUM PIPE SLOPE SHALL BE 1/4" PER FOOT FOR PIPING SMALLER THAN 3"; 1/8" PER FOOT FOR PIPING 3" AND LARGER UNLESS NOTED OTHERWISE.
- WASTE PIPING IN GROUND SHALL BE MINIMUM 2" SIZE.
- VENT PIPING SHALL BE INSTALLED WITH SLOPE TO CONNECTION TO THE WASTE BRANCH, MAIN, OR STACK AND SHALL TERMINATE WITH A VENT TO FREE AIR THROUGH THE ROOF UNLESS OTHERWISE NOTED. COORDINATE ROOF FLASHING WITH ROOF TYPE.
- SUPPORT ABOVE GRADE PIPING WITH MSSP STANDARD PATTERN PIPING SUPPORTS SECURED TO THE BUILDING STRUCTURE WITH THREADED ROD AND BEAM CLAMPS. DO NOT USE FABRIC SUPPORTS, PLUMBERS TAPE OR ANY OTHER STRAPPING METHODS OF SUPPORTING PIPE. HANGERS SHALL BE SIZED FOR THE PIPE WITH INSULATION.
- BED IN-GROUND PIPE AT PROPER SLOPE. BED PIPE WITH SAND, PEA GRAVEL OR CLEAN SOIL FREE OF TRASH, ORGANIC MATERIAL AND SHARP EDGED ROCKS OR CONSTRUCTION DEBRIS. AFTER PIPE IS COVERED, BACKFILL IN 8" LIFTS AND TAMP TO 95% MINIMUM COMPACTION TO FINAL GRADE ELEVATION. PROVIDE CUTTING, PATCHING, TRENCHING AND BACKFILLING REQUIRED FOR WORK UNDER THIS CONTRACT. COORDINATE WITH G.C. FOR PATCHING OF INTERIOR FLOORS AND FINISHES.
- UPON COMPLETION OF WASTE PIPING, VIDEO RECORD THE BORE OF THE SANITARY MAIN FROM THE FURTHEST CLEANOUT TO THE FIRST MANHOLE TO DOCUMENT THE PIPE IS FREE OF OBSTRUCTIONS, BELLIES, HAUNCHES, OR GAPS. FURNISH THE RECORDING IN DIGITAL FORMAT TO OWNER ON FLASH DRIVE. INFORM OWNER IN WRITING IF DEFECTS IN EXISTING WASTE LINES THAT ARE NOT REPLACED UNDER THIS CONTRACT.
- LABEL CW, HW & HWR PIPING, MAINS AND OVERHEAD BRANCHES WITH PLASTIC PIPE MARKERS WITH COLORED BACKGROUND - GREEN FOR CW, RED FOR HW AND HWR WITH ARROWS INDICATING FLOW DIRECTION. SECURE LABELS TO PIPE INSULATION JACKET WITH ADHESIVE AND A BLACK PLASTIC ZIP TIE.
- WARRANTY ALL WORK FOR A MINIMUM OF 1 YEAR FROM DATE OF ACCEPTANCE BY OWNER.

PLUMBING LEGEND

-----	COLD WATER (CW)
-----	HOT WATER (HW)
-----	WASTE PIPING
-----	VENT PIPING
⌈	VENT THROUGH ROOF (VTR)
⊕	FLOOR DRAIN (FD)
⊥	CLEANOUT (CO)
⊖	PIPE DROP
⊗	SHUT-OFF BALL VALVE
N	CHECK VALVE
⌋	HOSE BIBB (HB)

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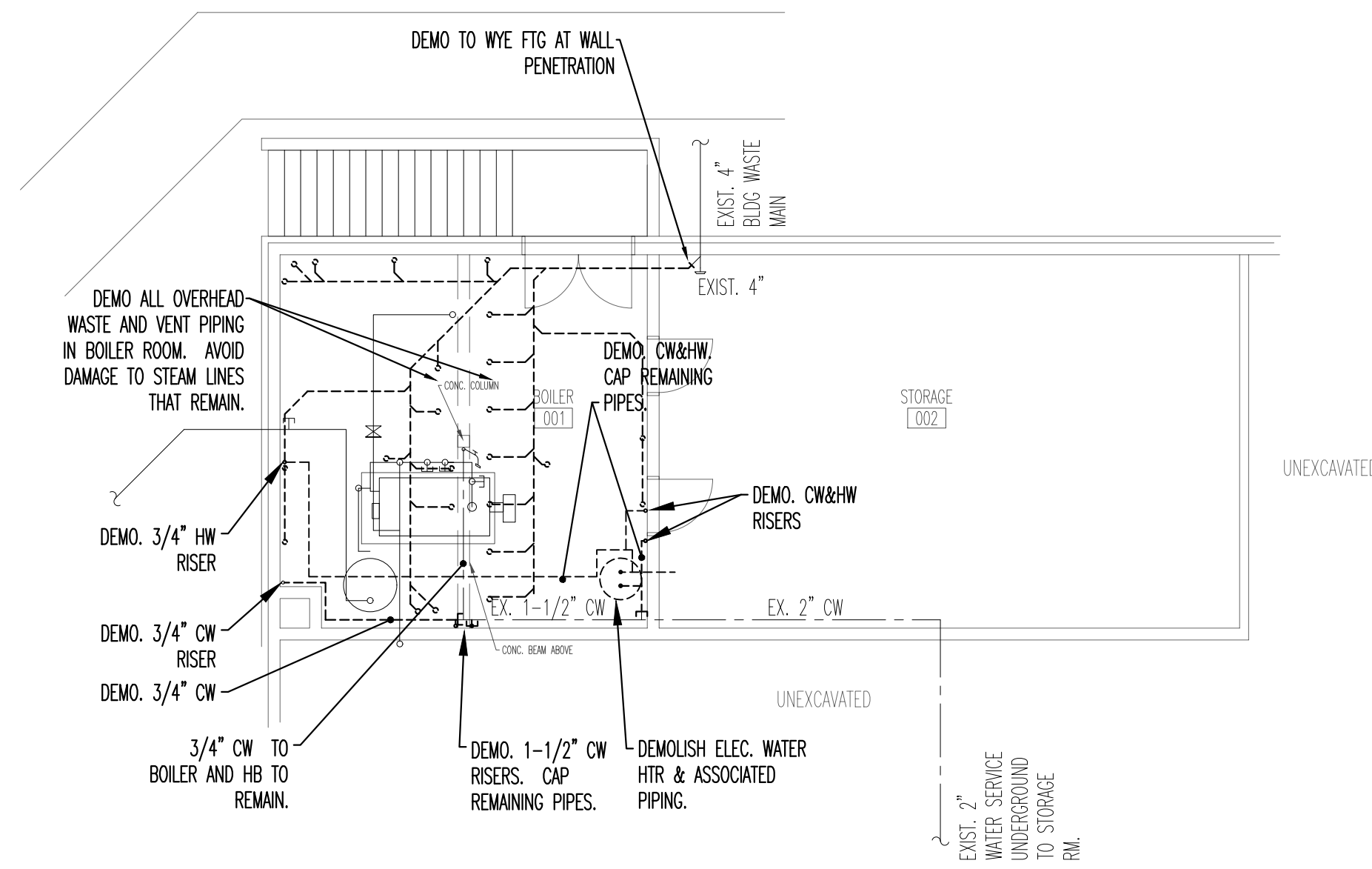


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RENOVATIONS FOR BUILDING 1
PINCKNEY ACADEMY
MOORE COUNTY SCHOOLS
 160 Pinckney Rd. Carthage, North Carolina 28527

SHEET NO.

P0.01

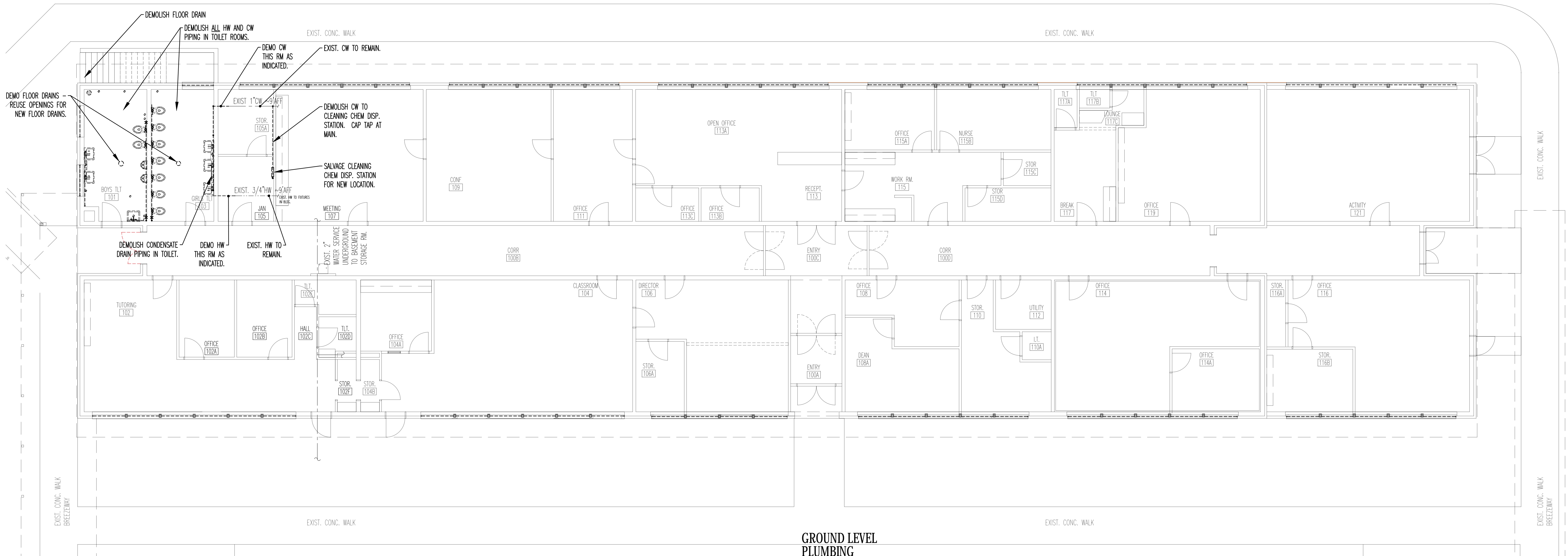


- PLUMBING DEMOLITION NOTES:
1. WASTE PIPING SHOWN THIS PLAN IS AT THE BASEMENT BOILER ROOM CEILING.
 2. ALL ABOVE GRADE WASTE AND VENT PIPING IS TO BE DEMOLISHED EXCEPT FOR THE 4" VTR WITHIN 2' OF THE ROOF AND THE 4" MAIN WASTE AND WYE FITTING WITH CLEANOUT AT THE EXTERIOR WALL.
 3. ROD THE EXISTING MAIN FOR A DISTANCE OF 100' FROM THE CLEANOUT OR TO THE FIRST MANHOLE IF CLOSER.
 4. DEMOLISH HW AND COLD WATER PIPING AS INDICATED. PROTECT EXISTING CW PIPING THAT REMAINS FROM DAMAGE.
 5. INSULATE EXISTING CW PIPING THAT REMAINS TO PREVENT CONDENSATION AND IDENTIFY SERVICE AND FLOW DIRECTION.
 6. PATCH CONCRETE FLOOR OPENINGS THAT ARE NOT REUSED.

**BASEMENT - BOILER ROOM
PLUMBING
DEMOLITION PLAN**

1
P1.01 SCALE: 1/8" = 1'-0"

EXIST. SCALE REFERENCE

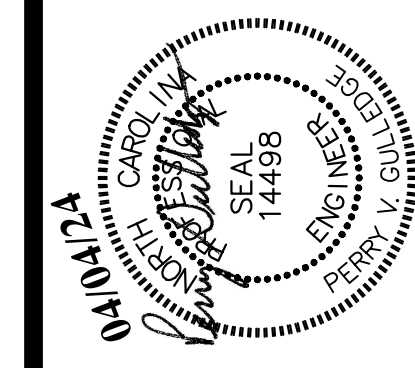


**GROUND LEVEL
PLUMBING
DEMOLITION PLAN**

2
P1.01 SCALE: 1/8" = 1'-0"

REVISIONS

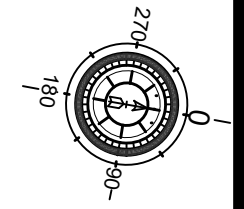
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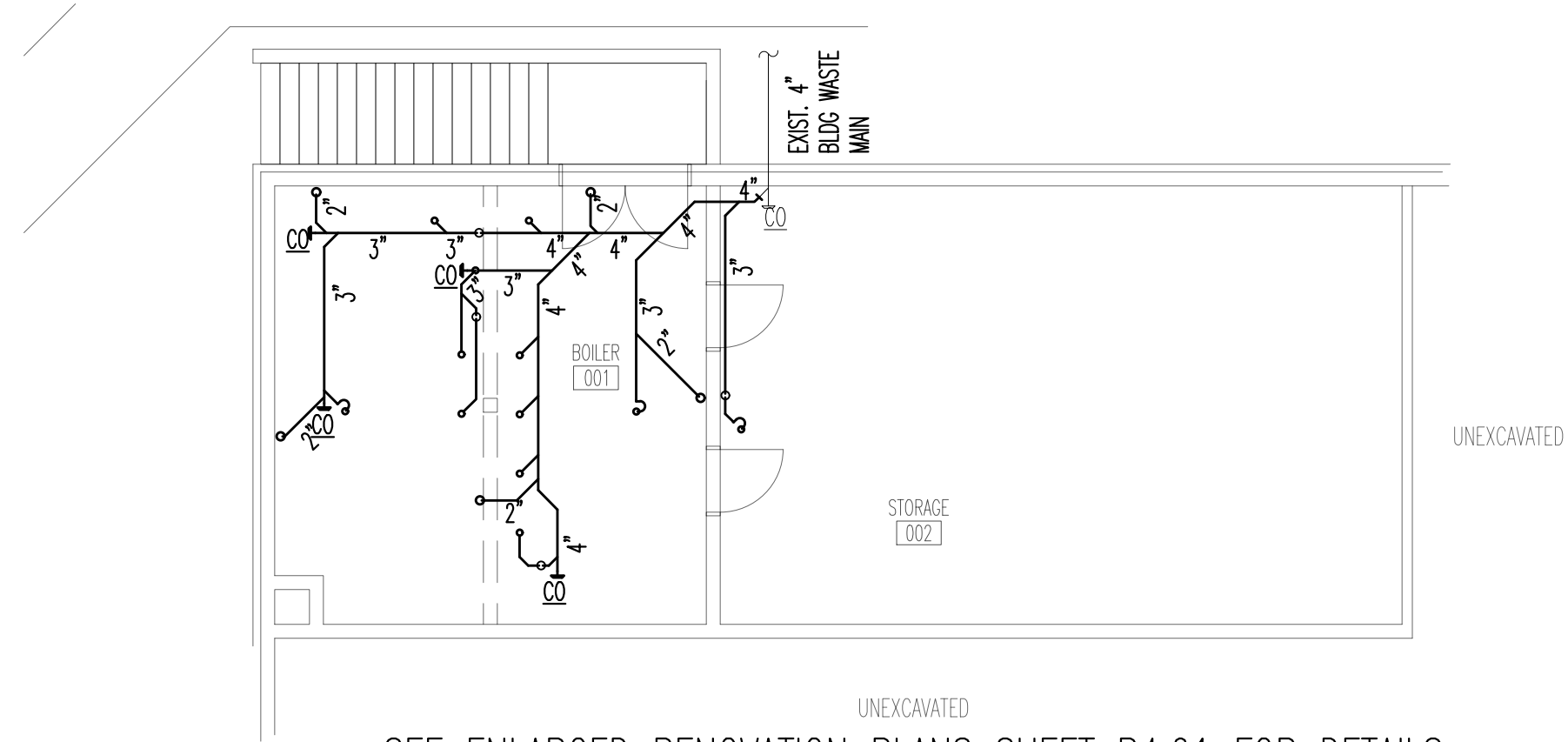


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RENOVATIONS FOR BUILDING 1
**PINCKNEY ACADEMY
 MOORE COUNTY SCHOOLS**
 160 Pinckney Rd. Carthage, North Carolina 28527

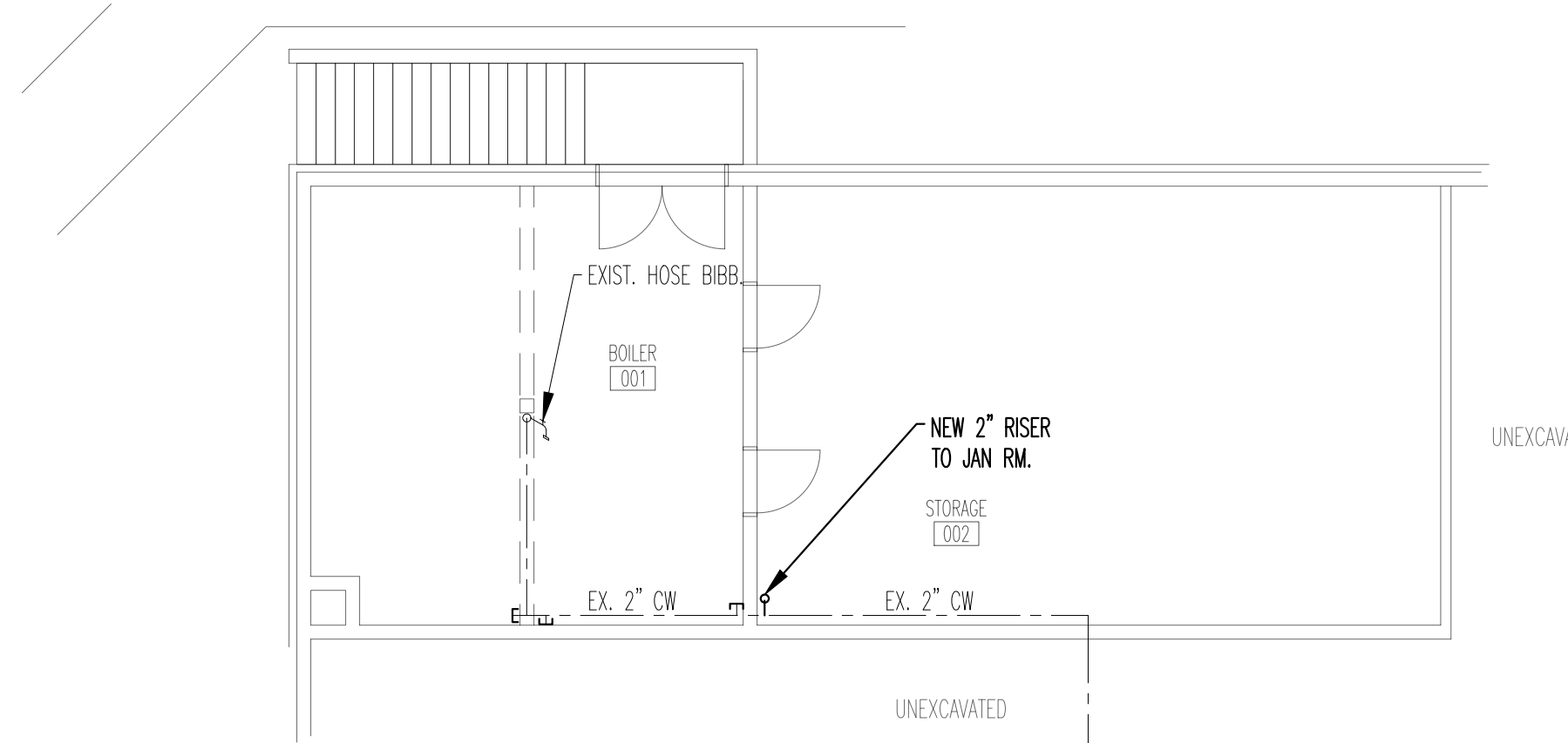
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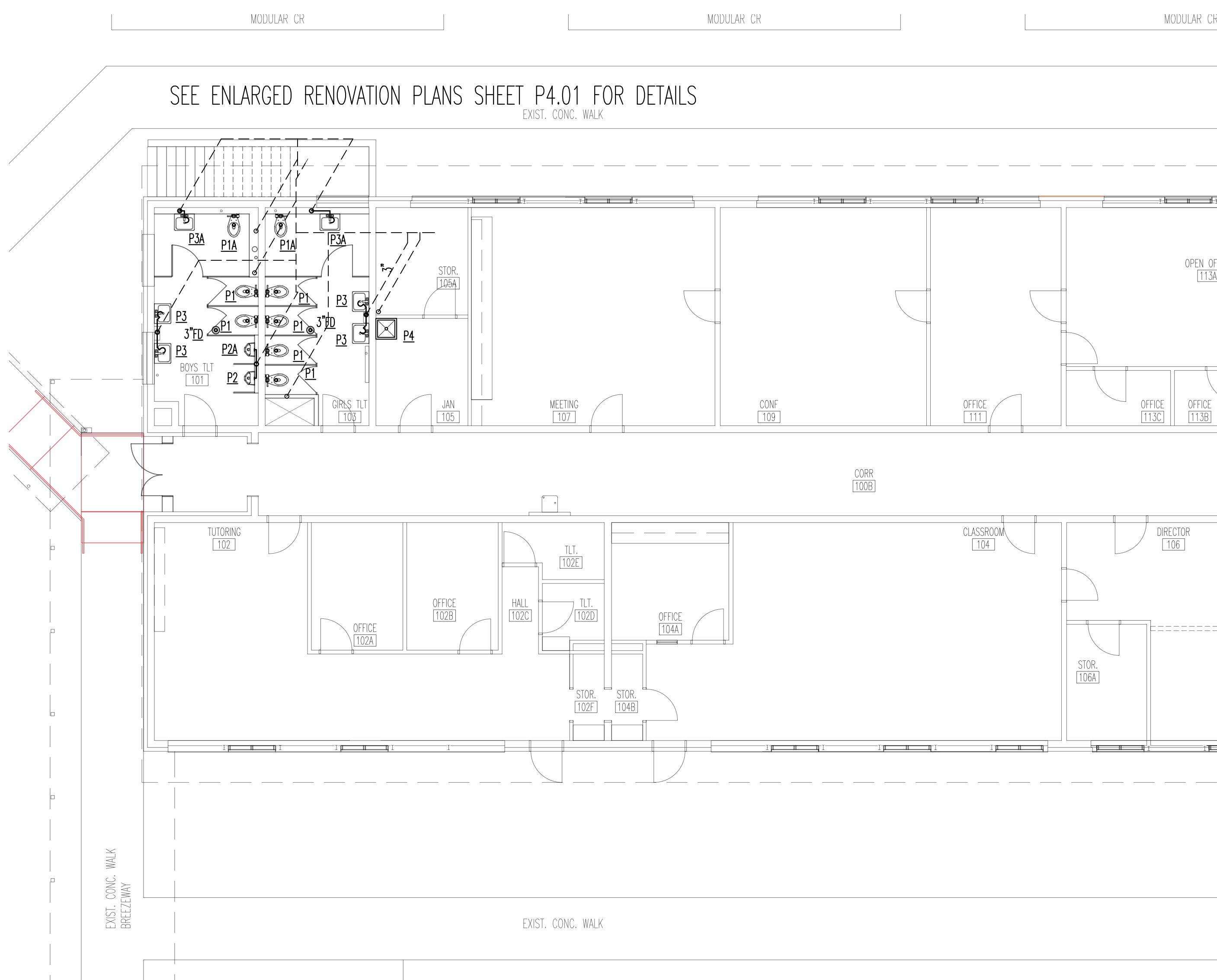
SEE ENLARGED RENOVATION PLANS SHEET P4.01 FOR DETAILS

**BASEMENT - BOILER ROOM
PLUMBING - WASTE & VENT
RENOVATION PLAN**
2
P1.11 SCALE: 1/8" = 1'-0"



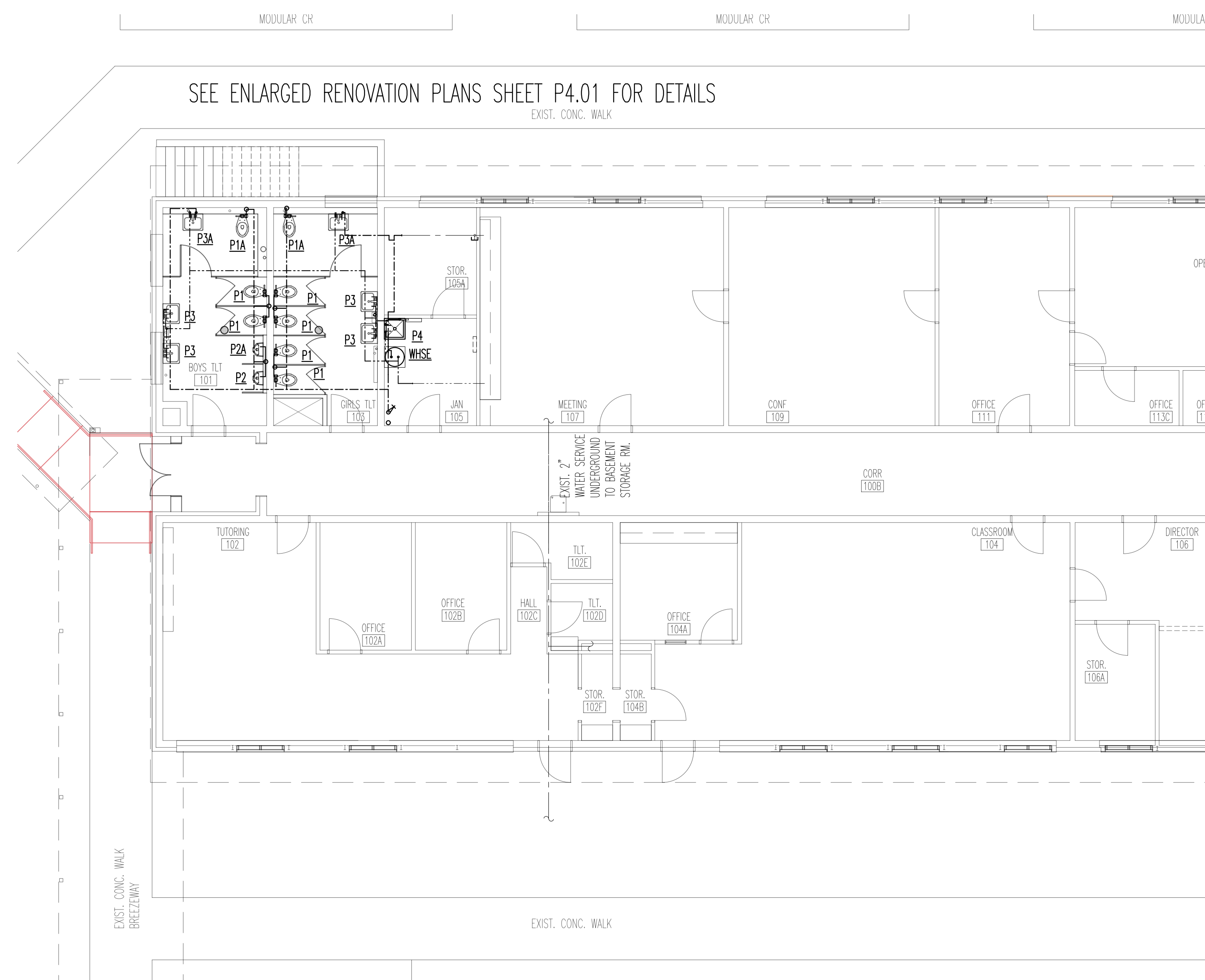
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**BASEMENT - BOILER ROOM
PLUMBING - DOMESTIC WATER
RENOVATION PLAN**
2
P1.11 SCALE: 1/8" = 1'-0"



SEE ENLARGED RENOVATION PLANS SHEET P4.01 FOR DETAILS

**GROUND LEVEL
PLUMBING - WASTE & VENT
RENOVATION PLAN**
2
P1.11 SCALE: 1/8" = 1'-0"



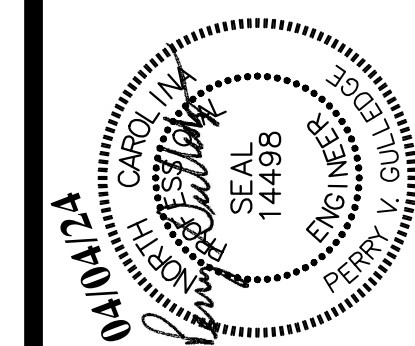
SEE ENLARGED RENOVATION PLANS SHEET P4.01 FOR DETAILS

**GROUND LEVEL
PLUMBING - DOMESTIC WATER
RENOVATION PLAN**
2
P1.11 SCALE: 1/8" = 1'-0"

FIXED SCALE REFERENCE

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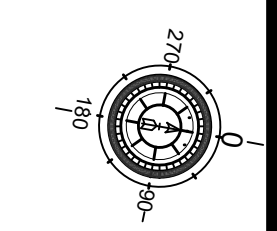
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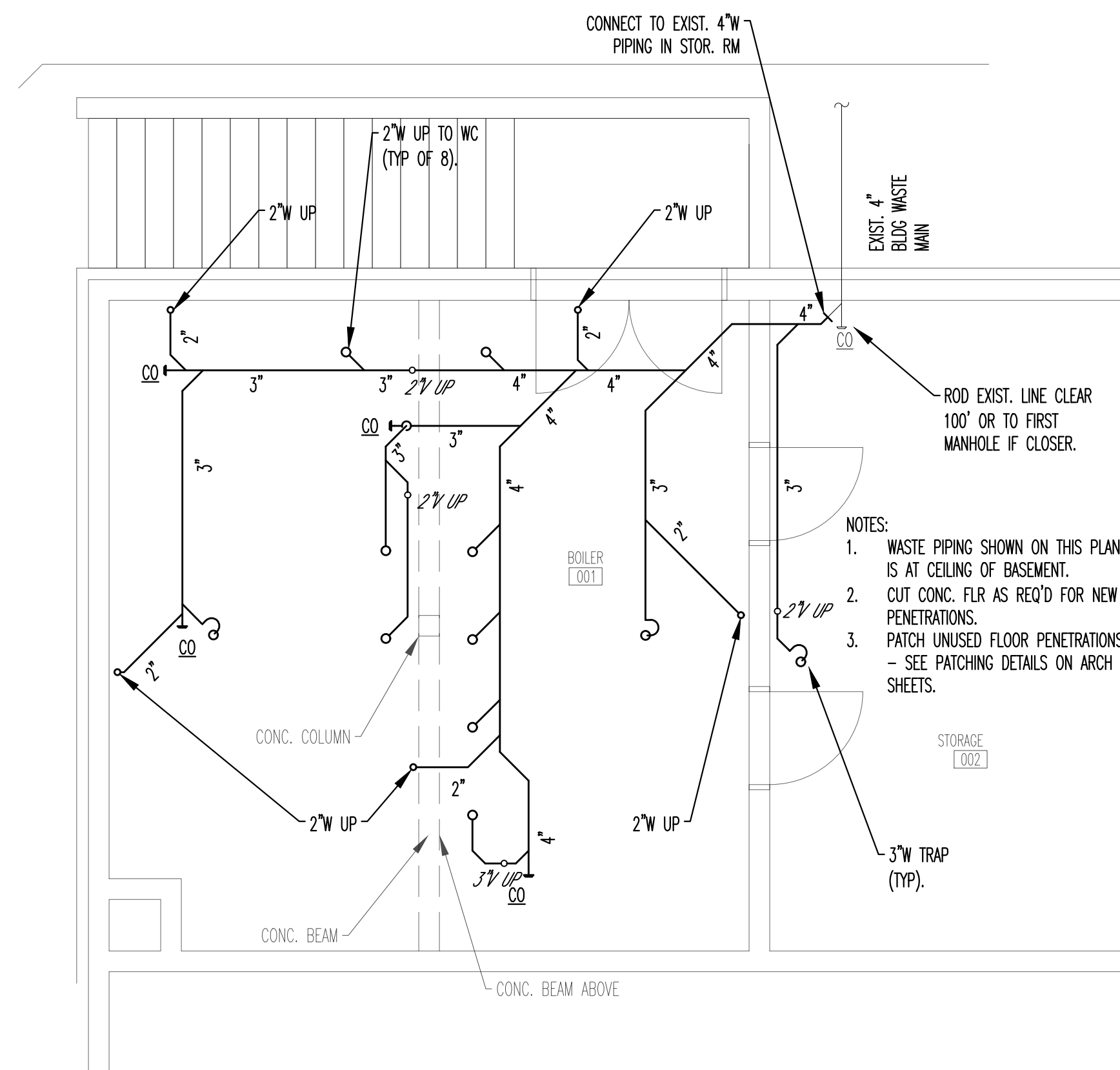


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RENOVATIONS FOR BUILDING 1
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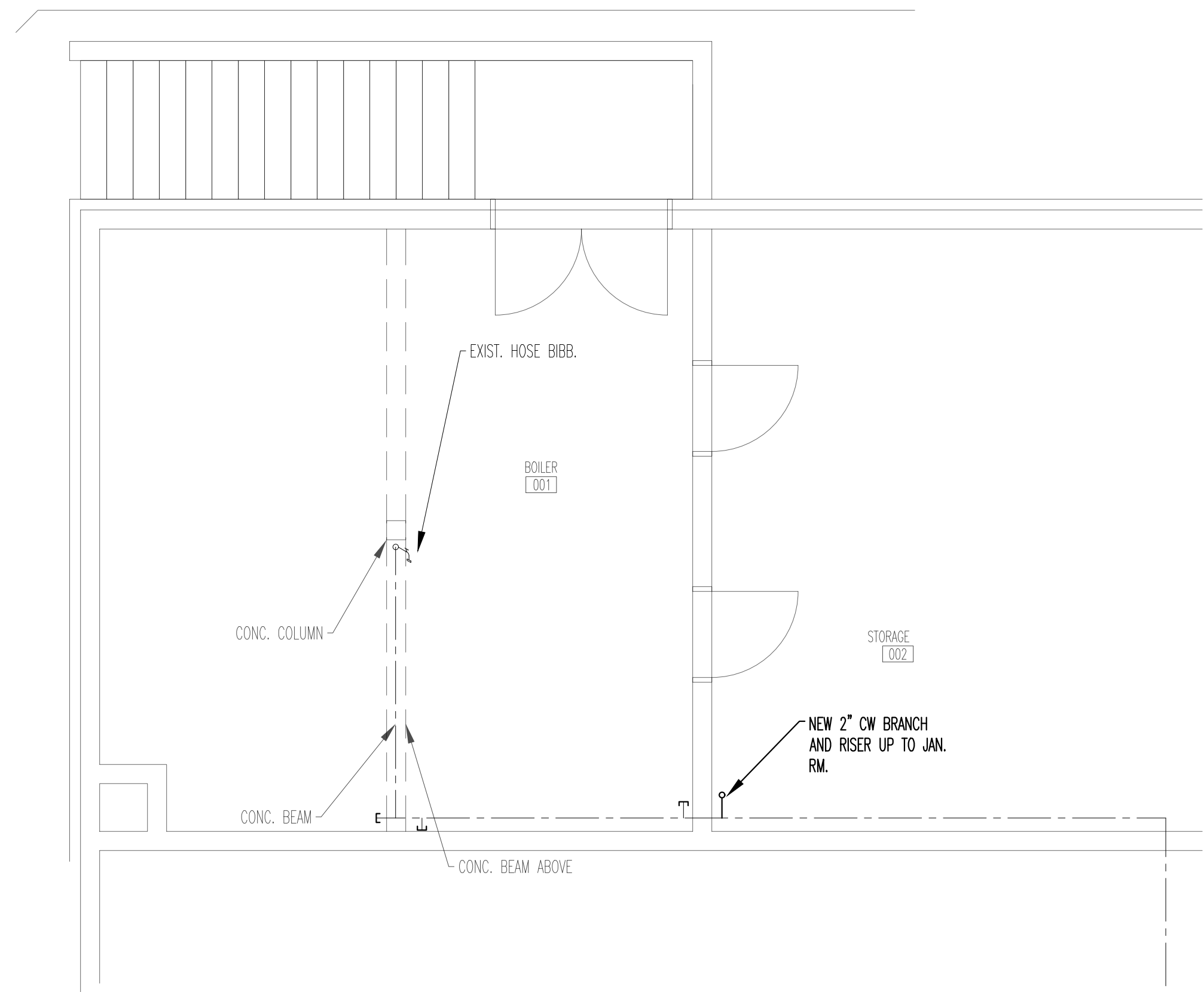
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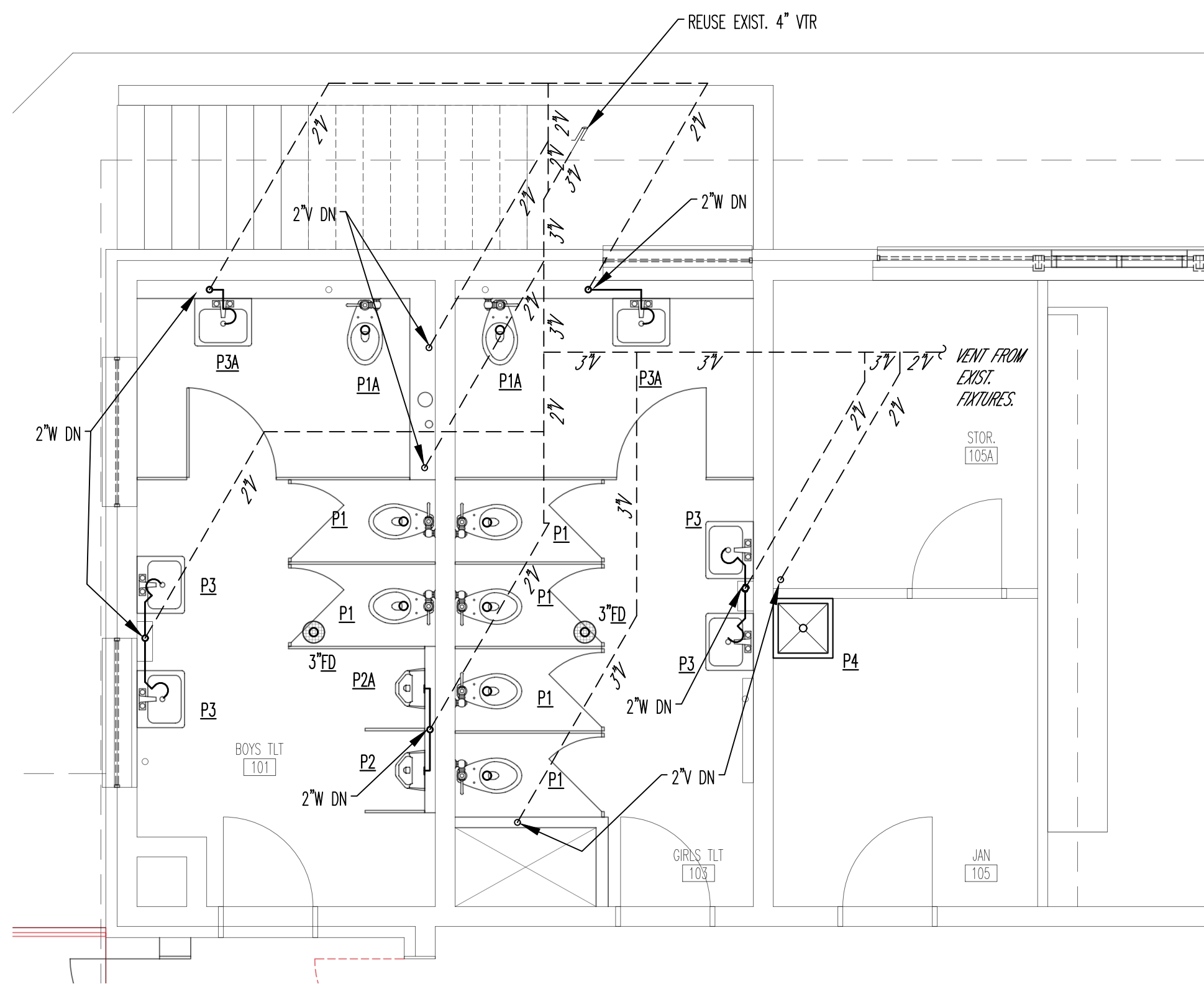
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SCALE: 1/4" = 1'-0"

**BASEMENT - ENLARGED PLAN
PLUMBING - WASTE & VENT
RENOVATION PLAN**



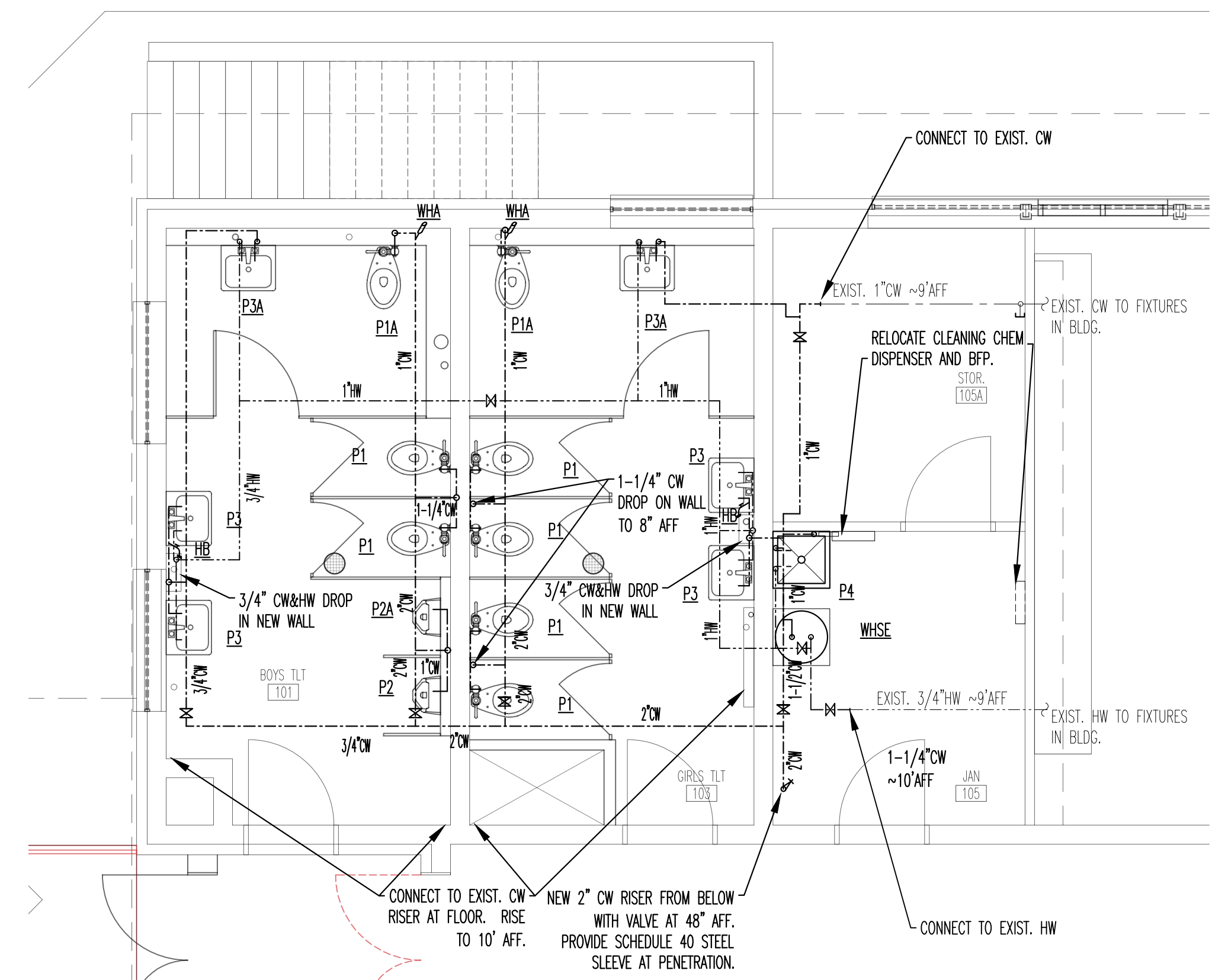
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P4.01
SCALE: 1/4" = 1'-0"

**BASEMENT - ENLARGED PLAN
PLUMBING - DOMESTIC WATER
RENOVATION PLAN**



2
P4.01
SCALE: 1/4" = 1'-0"

**GROUND FLOOR - ENLARGED PLAN
PLUMBING - WASTE & VENT
RENOVATION PLAN**



4
P4.01
SCALE: 1/4" = 1'-0"

**GROUND FLOOR - ENLARGED PLAN
PLUMBING - DOMESTIC WATER
RENOVATION PLAN**

EVEN SCALE REFERRED

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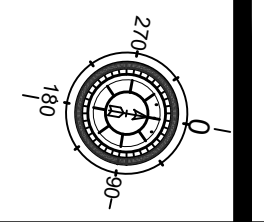
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PLUMBING
 MECHANICAL AND
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RENOVATIONS FOR BUILDING 1
**PINCKNEY ACADEMY
 MOORE COUNTY SCHOOLS**
 160 Pinckney Rd. Carthage, North Carolina 28527

SHEET NO.

P4.01



FAN SCHEDULE														
TAG	SERVICE	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (\"H2O)	MAKE (OR EQUAL)	MODEL	DRIVE	FAN SPEED (RPM)	MOTOR SPEED (RPM)	MAX SOUND (SONES)	MOTOR POWER	MOTOR HP OR WATTS	VOLTAGE (VOLTS/PH/Hz)	WEIGHT (LBS)	REMARKS
EF-1.2	TLT EXHAUST	280	0.25	GREENHECK	SP-A390-VG- CRD	DIRECT	1142	1142	3.5	43	W	120/1/60	10	NOTES 1,2,3,4,5
EF-3.4 5,6,7	TLT EXHAUST	80	0.25	GREENHECK	SP-A90-CRD	DIRECT	900	900	0.5	15	W	120/1/60	10	NOTES 1,2,3,6

NOTES

- UNIT MOUNTED DISCONNECT SWITCH.
- GRAVITY BACKDRAFT DAMPER.
- 1 HR CEILING RADIATION DAMPER.
- VARI-GREEN MOTOR SPEED CONTROL OPTION. SPEED CONTROL MOUNTED ON FAN FOR LOCAL ADJUSTMENT ONLY.
- PROVIDE WC-8x8 WALL TERMINATION CAP. DUCT FROM FAN TO CAP.
- CONNECT TO EXIST. 6\" EXHAUST DUCT.

GENERAL NOTES:

- OR EQUAL FANS BY AMERICAN COOLAIR, CARNES, COOK, PENN.

AIR DISTRIBUTION SCHEDULE									
TAG	MANUFACTURER (OR EQUAL)	MODEL	SERVICE	TYPE	MOUNTING	NECK SIZE	AIRFLOW RANGE (CFM)	PANEL SIZE	REMARKS
A	PRICE	SMD3P/B12	SUPPLY	LOUVERED FACE	CEILING LAY-IN T-BAR	6x6	0-100	24x24	SEE NOTES
B	PRICE	SMD3P/B12	SUPPLY	LOUVERED FACE	CEILING LAY-IN T-BAR	9x9	101-290	24x24	SEE NOTES
C	PRICE	SMD3P/B12	SUPPLY	LOUVERED FACE	CEILING LAY-IN T-BAR	12x12	291-600	24x24	SEE NOTES
R	---	---	RETURN	LOUVERED 45 DEGREE BLADES SPACED 1/2"	SURFACE WALL MOUNT	---	---	---	NOTE 7
S	---	---	SUPPLY	DEFLECTING SUPPLY GRILLE	SURFACE WALL MOUNT	---	---	---	NOTE 8
XR1	PRICE	535/TB/LA	TRANSFER	LOUVERED 45 DEGREE BLADES SPACED 1/2"	CEILING LAY-IN T-BAR	10x22	0-800	24x24	SEE NOTES

NOTES

- EQUAL DEVICES BY METALAIR, TITUS, TUTTLE & BAILEY ARE ACCEPTABLE.
- UNLESS NOTED OTHERWISE, FINISH FOR ALL DEVICES IS OFF-WHITE BAKED ENAMEL.
- SUPPLY AND EXHAUST DEVICES TO BE FURNISHED WITH OPPOSED BLADE DAMPER.
- 1 HR RATED CEILING FIRE DAMPER FOR EACH CEILING DEVICE.
- CEILING SUPPLY DIFFUSERS ARE 4-WAY PATTERN UNLESS NOTED OTHERWISE.
- FURNISH CEILING SUPPLY DIFFUSERS WITH SQUARE TO ROUND ADAPTERS FOR ROUND RUNOUTS.
- FLANGED RETURN GRILLE FURNISHED WITH WMHP UNIT. FABRICATE DUCT SLEEVE AND CONNECT TO UNIT RETURN CONNECTION.
- FLANGED SUPPLY GRILLE FURNISHED WITH WMHP UNIT. FABRICATE DUCT SLEEVE AND CONNECT TO UNIT SUPPLY CONNECTION.

ELECTRIC HEATER SCHEDULE											
TAG	MANUFACTURER (OR EQUAL)	MODEL	TYPE	MOUNTING	FAN AIRFLOW (CFM)	ELEMENT CAPACITY (KW)	VOLTAGE (VOLTS/PH/Hz)	UNIT CURRENT (AMPS)	MAX M.C.A. (AMPS)	MAX M.O.C.P. (AMPS)	REMARKS
WH 1	BERKO	VFK204F	FAN FORCED	SURFACE WALL	65	2.0	240/1/60	8.3	10.4	15	NOTES 1,2,3
WH 2,3	BERKO	VFK484F	FAN FORCED	SURFACE WALL	65	4.8	240/1/60	20	25.0	25	NOTES 1,2,3

NOTES

- OR EQUAL BY MARKEL, MODINE, REZNOR.
- UNIT MOUNTED TAMPER RESISTANT THERMOSTAT AND 2 POLE DISCONNECT SWITCH.
- SURFACE MOUNTING BOX.

PACKAGED EXTERIOR WALL MOUNTED DX HEAT PUMP/ELECTRIC HEATING UNIT SCHEDULE																													
UNIT TAG	NOMINAL COOLING CAPACITY (TONS)	MANUFACTURER (OR EQUAL)	OUTDOOR UNIT MODEL #	APPLICATION ORIENTATION	INDOOR AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (\" W.C.)	MINIMUM OUTSIDE AIRFLOW (CFM)	MAXIMUM OUTSIDE AIRFLOW (CFM)	DRY BULB TEMP (F)	WET BULB TEMP (F)	MINIMUM COOLING CAPACITIES AT 95F/76F AMBIENT					REVERSE CYCLE HEATING CAPACITIES AT AHRI CONDITIONS					FAN/HEATER				ELECTRICAL CHARACTERISTICS			WEIGHT (LBS)	REMARKS
											NET COOLING CAPACITY (MBH)	MINIMUM COOLING EFFICIENCY (EER)	COMP. QTY (#)	COOLING CAPACITY LOADING (STAGES)	HEATING CAPACITY (MBH)	MINIMUM HEATING EFFICIENCY (COP)	HEATING CAPACITY (MBH)	MINIMUM HEATING EFFICIENCY (COP)	FAN MOTOR (HP)	DRIVE TYPE	STRIP HEAT (KW)	STRIP HEAT STAGES (KW)	UNIT VOLTAGE (V/PH/Hz)	MAX M.C.A. (AMPS)	MAX M.O.C.P. (AMPS)				
																										HEATING CAPACITY (MBH)	MINIMUM HEATING EFFICIENCY (COP)		
WMHP-1,11	1.5	BARD	W18HB-B 04ZP8	EXT. WALL MT.	600	0.45	150	150	80.0	65.9	17.50	11.3	1	1	16.80	3.5	9.24	2.08	0.33	DIRECT	4	1	240/1/60	37	40	350	NOTES 1-4,6-9, 12,13		
WMHP- 5,10,13,14	2	BARD	W24HB-DB 05AP8	EXT. WALL MT.	800	0.40	200	800	80.0	65.9	17.50	11.3	1	1	22.40	3.3	13.10	2.25	0.33	DIRECT	5	1	240/3/60	30	30	360	NOTES 1-8, 10-13		
WMHP-4	2.5	BARD	W30HB-DB 05XP8	EXT. WALL MT.	950	0.42	240	950	80.1	65.9	29.00	11.0	1	1	26.60	3.4	16.40	2.28	0.75	DIRECT	5	1	240/3/60	33	35	400	NOTES 1-8, 10-13		
WMHP-6,7,8,9	3.5	BARD	W42HC-DB 05XP8	EXT. WALL MT.	1350	0.4	340	1350	80.0	65.9	42.00	11.0	1	1	39.00	3.3	23.90	2.25	0.75	DIRECT	9	1	240/3/60	51	60	550	NOTES 1-8, 10-13		
WMHP-3,12	4	BARD	W48HC-DB 09XP8	EXT. WALL MT.	1550	0.42	390	1550	80.0	65.9	47.50	11.0	1	1	42.50	3.3	28.90	2.08	0.75	DIRECT	9	1	240/3/60	52	60	550	NOTES 1-8, 10-13		
WMHP-2	5	BARD	W60HC-DB 15ZP8	EXT. WALL MT.	1750	0.40	440	1750	80.0	65.9	54.50	11.0	1	1	52.50	3.3	32.20	2.26	0.75	DIRECT	15	1	240/3/60	56	60	600	NOTES 1-8, 10-13		

NOTES

- UNIT BY BARD OR MARVAIR WITH SINGLE POINT POWER CONNECTION, R-410A REFRIGERANT.
- NOMINAL CAPACITY LISTED IS FOR REFERENCE ONLY. SYSTEMS MUST MEET MINIMUM SCHEDULED COOLING AND HEATING CAPACITIES AND EFFICIENCIES AND MAXIMUM ELECTRICAL VALUES.
- MULTISPEED MOTOR.
- SINGLE POINT POWER CONNECTION WITH INTERNAL WIRING TO HEATERS AND FAN MOTOR.
- HOT GAS REHEAT COIL AND DEHUMIDIFICATION CONTROLS.
- PROVIDE 1 SET MERV 8 AND 1 SET MERV 13 PLEATED MEDIA FILTERS FOR EACH UNIT. CHANGE FILTERS TO MERV 13 AT FINAL COMPLETION.
- FURNISH WITH FACTORY SUPPLIED UNIT COMPATIBLE RETURN GRILLE FOR FIELD INSTALLATION.
- FIELD INSTALL DISCHARGE AIR TEMP SENSOR, FAN PROVING SWITCH, DIRTY FILTER SWITCH, AND COMPRESSOR PROVING SWITCH WIRED TO THERMOSTAT FOR BMS INTEGRATION.
- BRIGHTSTAT BACNET THERMOSTAT/ WITH OCC SENSOR FOR HEATING/COOLING. PROVIDE CLEAR ACRYLIC COVER FOR THERMOSTAT.
- BRIGHTSTAT BACNET THERMOSTAT/ WITH OCC SENSOR FOR HEATING/COOLING/DEHUMIDIFICATION. PROVIDE CLEAR ACRYLIC COVER FOR THERMOSTAT.
- DIFFERENTIAL ENTHALPY CONTROLLED ECONOMIZER WITH JADE CONTROLLER.
- FURNISH COMPLETE WITH MOUNTING BRACKETS AND FLASHING FOR INSTALLATION TO FRAMED WALL STRUCTURE.
- WARRANTY COMPLETE UNIT PARTS AND LABOR FOR 5 YEARS.

GENERAL MECHANICAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STATE BUILDING CODE AND LOCAL CODES AND ORDINANCES. MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE.
- OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS ETC. AS REQUIRED FOR WORK UNDER THIS CONTRACT.
- SCHEDULE ALL REQUIRED INSPECTIONS WITH LOCAL AHJ AND FURNISH PERSONNEL AND ACCESS REQUIRED BY AHJ FOR INSPECTIONS. MAKE CORRECTIONS AS REQUIRED BY INSPECTIONS REPORTS.
- NOTE THAT THE TERM "PROVIDE" WHEN USED IN THIS CONTRACT SHALL MEAN TO FURNISH TO THE SITE, INSTALL PER MANUFACTURER'S RECOMMENDATIONS, START AND ADJUST AS REQUIRED FOR SAFE AND EFFICIENT OPERATION.
- DUCTWORK SHALL BE G-90 GALVANIZED LOCK-FORMING AND PAINT GRADE STEEL FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST PUBLICATION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- SUPPORT DUCT FROM THE BUILDING STRUCTURE WITH THREADED RODS AND ANGLE SUPPORTS. ROUND AND FLEX DUCTS MAY BE SUPPORTED WITH GALVANIZED STEEL STRAPS. DO NOT USE ANY FABRIC SUPPORTS FOR SUPPORTING DUCTS. NOTE THAT JOIST BRIDGING AND CROSS BRACING ARE NOT CONSIDERED AS BUILDING STEEL AND SHALL NOT BE USED TO SUPPORT DUCTS OR EQUIPMENT.
- ELBOWS IN CONCEALED LOCATIONS AND UTILITY ROOMS SHALL BE RADIUS CONSTRUCTION WHEREVER POSSIBLE WITH A CENTERLINE RADIUS EQUAL TO THE WIDTH OF THE DUCT.
- ELBOWS FOR EXPOSED TO VIEW DUCT SHALL BE MITERED AND SHALL BE EQUIPPED WITH DOUBLE THICKNESS TURNING VANES.
- FLEXIBLE DUCT SHALL BE UL LISTED HELICAL WIRE REINFORCED FILM INSULATED WITH FIBERGLASS INSULATION AND METALLIZED VAPOR BARRIER JACKET. SECURE FLEX DUCTS TO DUCT TAPS AND COLLARS WITH DRAWBANDS OR SCREW-RATCHETED CLAMPS AND TAPE. LIMIT FLEX RUNS TO A MAXIMUM OF 6'.
- RECTANGULAR DUCTS SHALL BE INSULATED INTERNALLY WITH 1" THICKNESS 1.5 #/CF LOW VOC FIBERGLASS DUCT LINER SECURED TO DUCTS WITH STICK PINS AND LOW VOC ADHESIVE.
- ROUND AND SPIRAL STEEL DUCTS SHALL BE INSULATED WITH 1-1/2" THICKNESS DUCT WRAP WITH VAPOR BARRIER. SEAL VAPOR BARRIER TO DUCTS AND TO FLEX DUCT VAPOR BARRIER.
- DUCT DIMENSIONS LISTED ON THE PLANS ARE INTERNAL FREE DIMENSIONS. INCREASE DUCT SIZES DURING FABRICATION TO ALLOW FOR DUCT LINER WHERE APPLICABLE.
- PROVIDE FLEXIBLE DUCT CONNECTORS AT DUCT CONNECTIONS TO ALL MOTORIZED EQUIPMENT.
- COORDINATE INSTALLATION OF EQUIPMENT TO AVOID DUCT CONFLICTS WITH EXISTING CONDITIONS AND TO MAINTAIN REQUIRED CLEARANCES FROM OTHER EQUIPMENT, PLUMBING VENTS, ROOF EDGES, ETC.
- WARRANTY ALL WORK, EQUIPMENT, AND MATERIALS (PARTS AND LABOR) FOR A MINIMUM OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. REFRIGERATION COMPRESSORS SHALL CARRY AN ADDITIONAL 4 YEAR (MINIMUM) PARTS WARRANTY.

MECHANICAL LEGEND

	DUCTWORK 20" WIDE x 10" DEEP INTERNAL DIMENSIONS.
	DUCT DROP
	DUCT RISE
	BRANCH TAP WITH AIR EXTRACTOR
	FLEXIBLE DUCT RUNOUT AND DROP. UL LISTED. SECURE TO DUCT AND AIR DISTRIBUTION WITH DRAWBAND AND MASTIC.
	CEILING SUPPLY DIFFUSER - TYPE "A" "###" CFM AIRFLOW. SEE AIR DISTRIBUTION SCHEDULE.
	CEILING RETURN OR TRANSFER GRILLE. TYPE "R". SEE AIR DISTRIBUTION SCHEDULE.
	SIDEWALL RETURN OR LOUVER WITH CURVED BLADES FACING DOWN.
	SIDEWALL SUPPLY GRILLE WITH DOUBLE DEFLECTING VANES
	PROGRAMMABLE THERMOSTAT WITH LOCKING ACRYLIC GUARD. MOUNT 44" AFF. #=SYSTEM CONTROLLED.
	PROGRAMMABLE HUMIDISTAT WITH LOCKING ACRYLIC GUARD. MOUNT 44" AFF. #=SYSTEM CONTROLLED.

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

Winter dry bulb: 18F
Summer dry bulb: 98F

Interior design conditions

Winter dry bulb: 70F
Summer dry bulb: 74F
Relative humidity: 50%

Building heating load: 404 MBH
Building cooling load: 491 MBH

Mechanical Space Conditioning System

Unitary

Description of unit: DX ELECTRIC HEAT PUMP
Heating efficiency: SEE SCHEDULE
Cooling efficiency: SEE SCHEDULE
Size category of unit. If oversized state reason: N/A
Cooling output of unit: SEE SCHEDULE

Boiler

Size category. If oversized state reason: N/A

Chiller

Size category. If oversized state reason: N/A

List equipment efficiencies: SEE SCHEDULE

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PLUMBING AND MECHANICAL ENGINEERING

THE PREMIER

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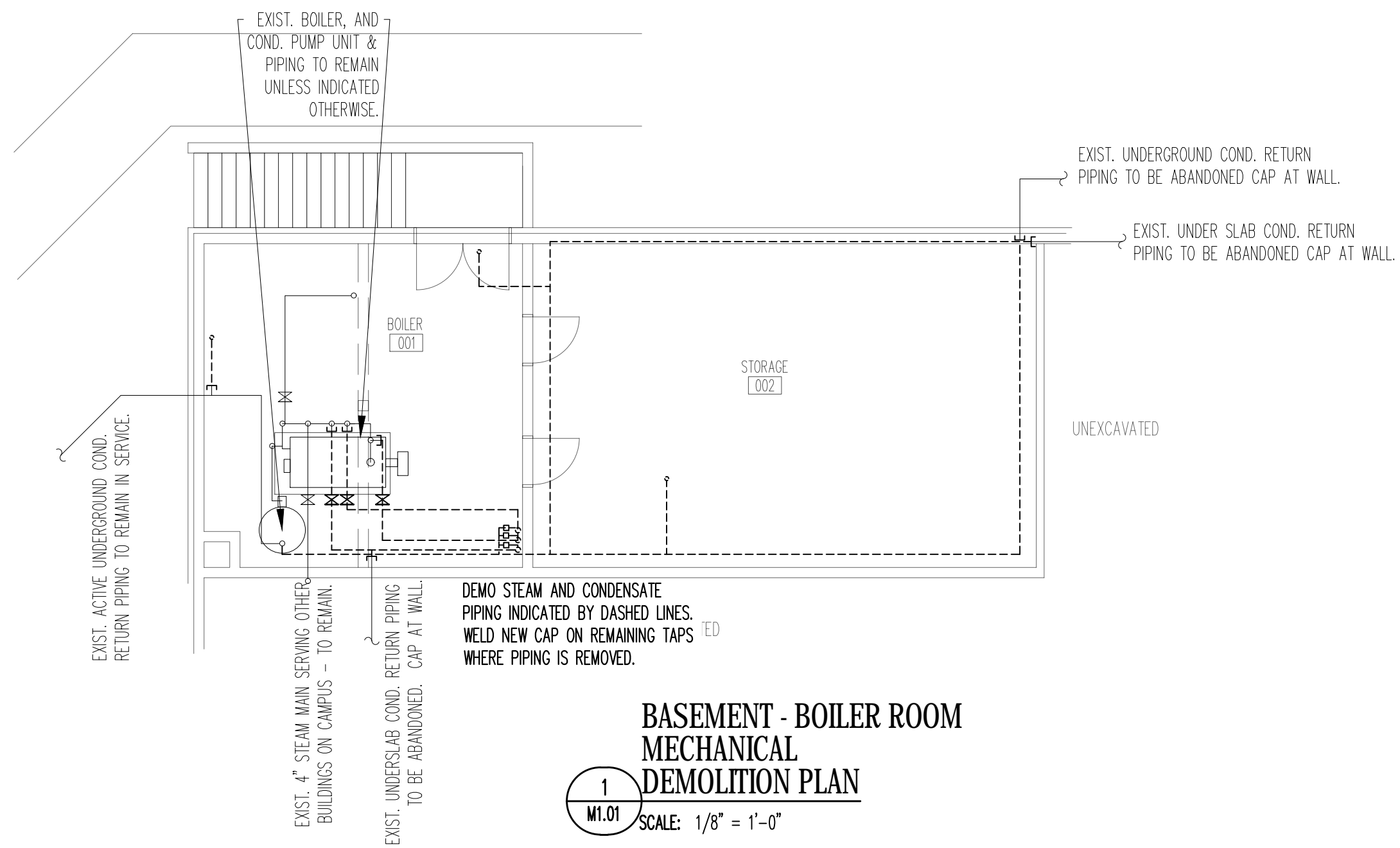
RENOVATIONS FOR BUILDING 1

PINCKNEY ACADEMY
MOORE COUNTY SCHOOLS

160 Pinckney Rd. Carthage, North Carolina 28527

BY: SCALE REFERENCE

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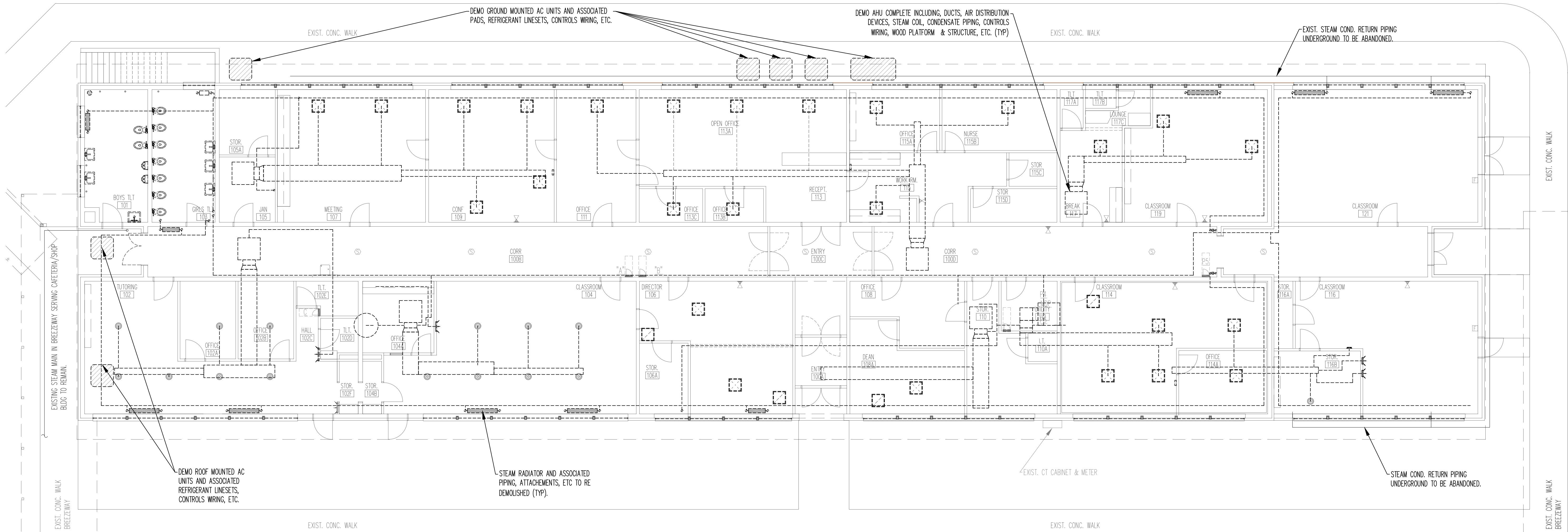


**BASEMENT - BOILER ROOM
MECHANICAL
DEMOLITION PLAN**

1
M1.01 SCALE: 1/8" = 1'-0"

MECHANICAL DEMOLITION NOTES:

1. ALL EXISTING STEAM RADIATORS, HEATING COILS, STEAM DISTRIBUTION PIPING AND CONDENSATE PIPING, ETC IN THE BUILDING THAT ARE DEDICATED TO THIS BUILDING ARE TO BE DEMOLISHED. NOTE THAT PIPING SERVING OTHER BUILDINGS IS TO REMAIN.
2. THE EXISTING STEAM BOILER AND DISTRIBUTION SERVING OTHER BUILDINGS ON THE SITE SHALL REMAIN TO CONTINUE TO PROVIDE LOW PRESSURE STEAM FOR HEATING REQUIREMENTS IN THOSE BUILDINGS. STEAM MAINS RUN OVERHEAD AND THROUGH THE BREEZEWAY STRUCTURE TO ADJACENT BUILDINGS. CONDENSATE MAINS ARE UNDERGROUND ROUTED UNDER THE PARKING LOT TO THE BOILER ROOM. PROTECT BOILER, FUEL SYSTEM, AND ALL REMAINING STEAM AND CONDENSATE PIPING FROM DAMAGE.
3. CAP ALL REMAINING BRANCH CONNECTIONS WHERE STEAM OR CONDENSATE PIPING ARE REMOVED. WELD CAPS SHALL BE PROVIDED AND CAPS ON STEAM LINES OR MAINS SHALL BE INSULATED.
4. DEMOLISHED STEAM MAINS TAPPED FROM THE HEADER AT THE BOILER SHALL BE REMOVED COMPLETE TO THE HEADER. IF A MAIN SERVES TWO OR MORE MAINS AND ONE REMAINS IN SERVICE, THE DEMOLISHED MAIN SHALL BE REMOVED TO THE BRANCH TAP. ALL UNUSED VALVES ARE TO BE DEMOLISHED - DO NOT LEAVE ABANDONED VALVES OR PIPES IN PLACE.
5. UNDERGROUND CONDENSATE RETURN PIPING DEDICATED TO THIS BUILDING MAY REMAIN. PROVIDE A WELD CAP ON THE PIPE WHERE IT ENTERS THE BASEMENT WALL.
6. ALL EXISTING COOLING SYSTEMS ARE TO BE DEMOLISHED, REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.
7. DEMOLISH CONDENSING UNITS, CONCRETE PADS, REFRIGERANT LINESETS, CONTROL WIRING AND CONDUIT. PATCH WALLS WHERE PIPES OR CONDUITS ARE REMOVED.
8. DEMOLISH AIR HANDLING UNITS AND ALL ASSOCIATED STEAM COILS, STEAM AND CONDENSATE PIPING, COOLING CONDENSATE PIPING, DUCTWORK, SUPPLY AND RETURN DEVICES, CONTROLS COMPONENTS WIRING, AND CONDUIT, AS WELL AS SUPPORT AND SUPPORT PLATFORMS DEDICATED TO SUPPORTING AIR HANDLING UNITS.
9. DEMOLISH EXISTING DDC CONTROLLERS AND INTERCONNECTING WIRING, CONDUIT, ATTACHMENTS ETC.
10. PATCH ALL WALL AND FLOOR OPENINGS FROM WHICH PIPES, DUCTS, CONDUITS, OR LINESETS ARE REMOVED.



**GROUND LEVEL
MECHANICAL
DEMOLITION PLAN**

2
M1.02 SCALE: 1/8" = 1'-0"

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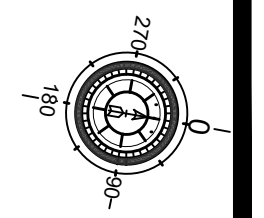
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 160 Pinckney Rd. Carthage, North Carolina 28527

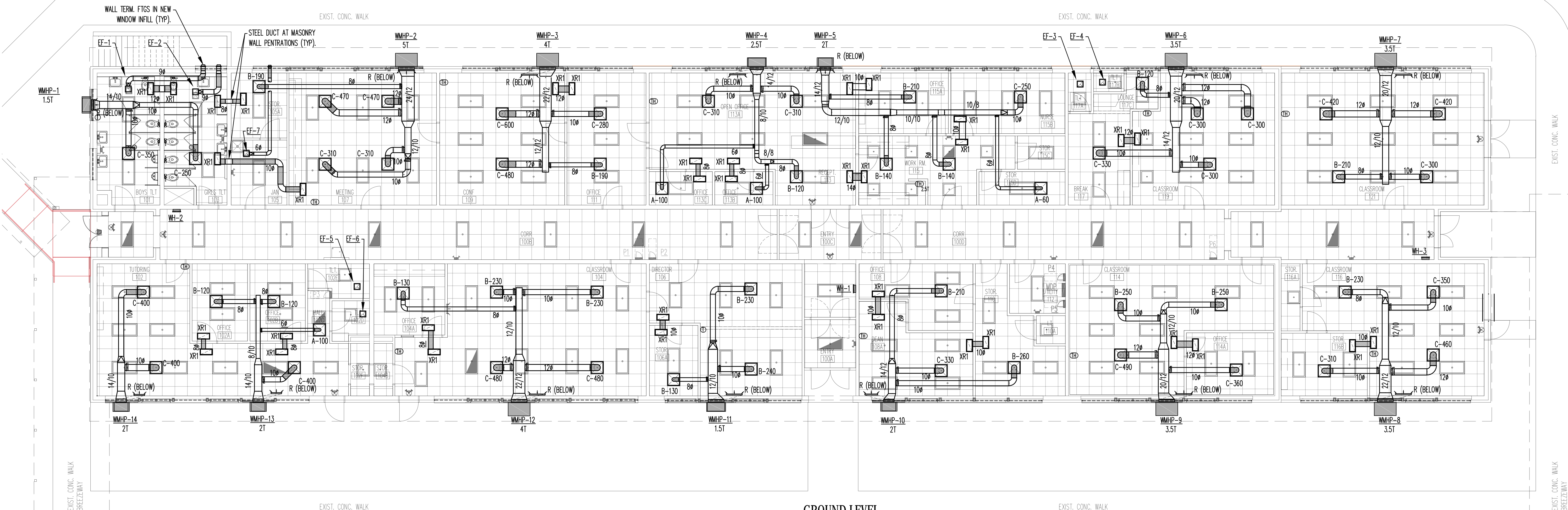
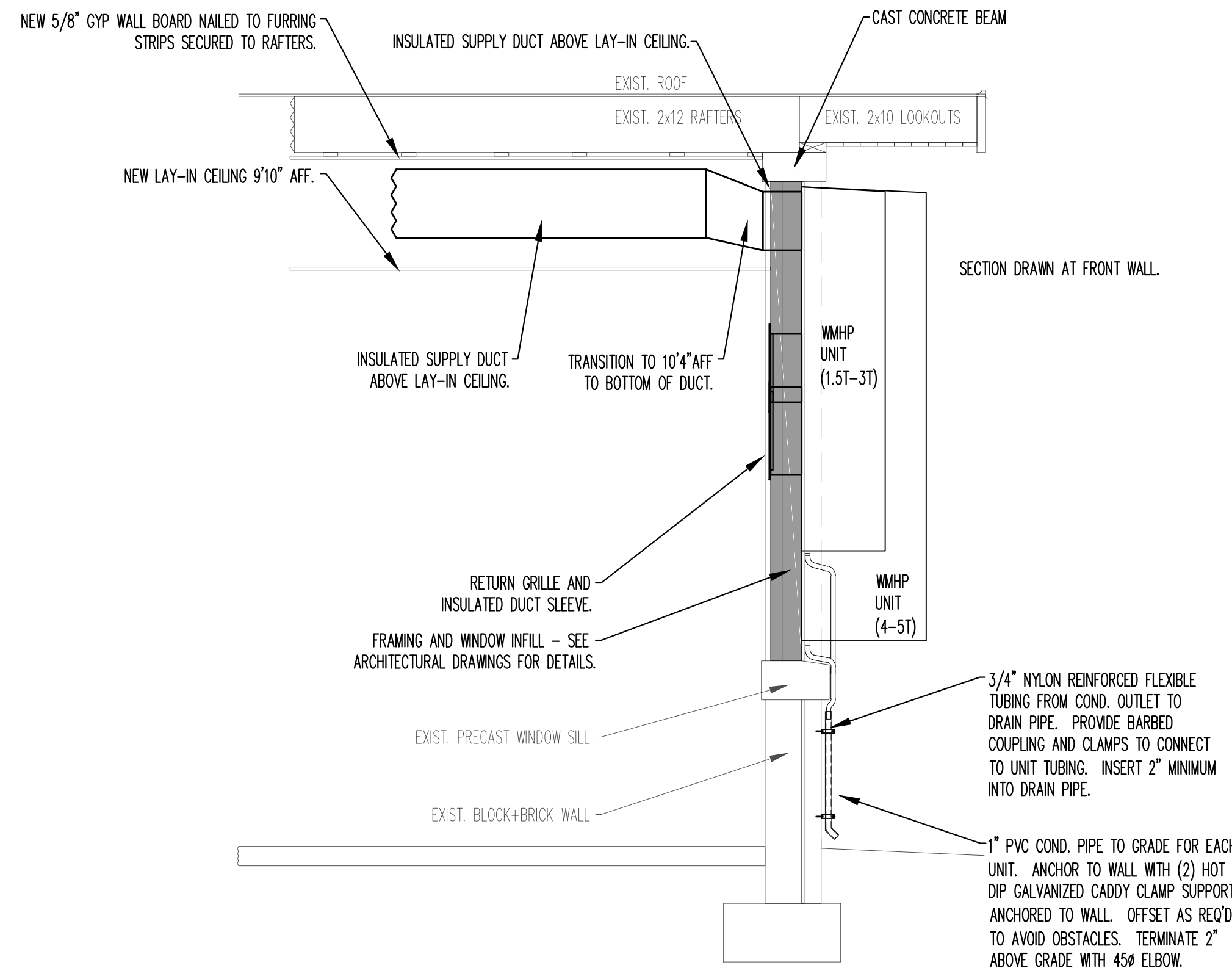
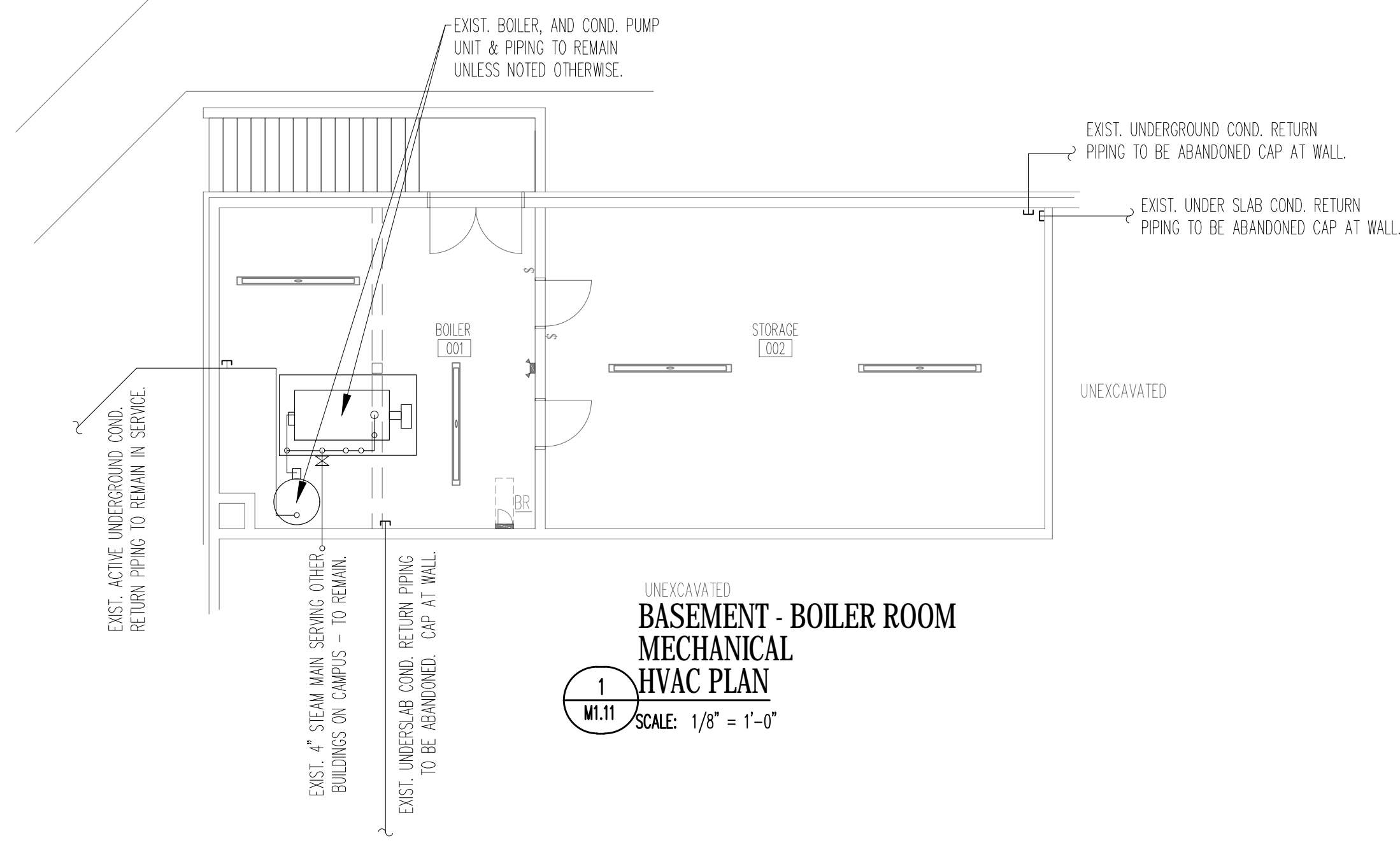
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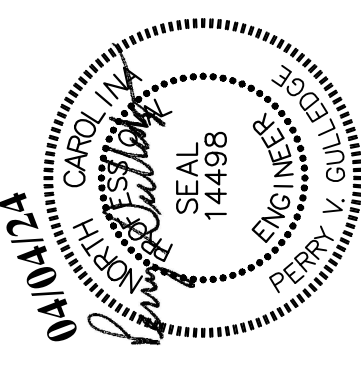
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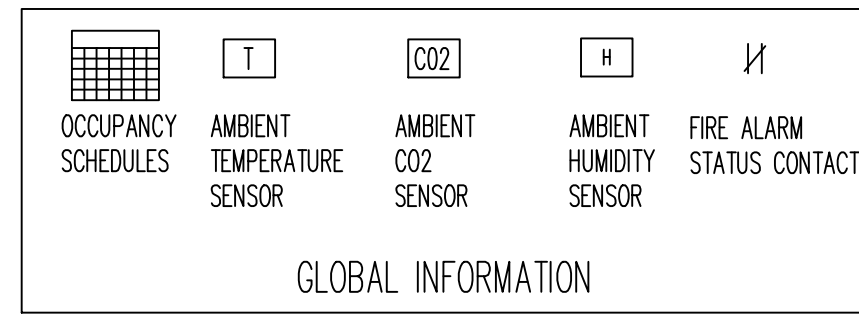
ENGINEERING
 THE PREMIER
 MECHANICAL AND
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 FIRM SINCE 1984

RENOVATIONS FOR BUILDING 1
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MOORE COUNTY SCHOOLS
 160 Pinckney Rd. Carthage, North Carolina 28527

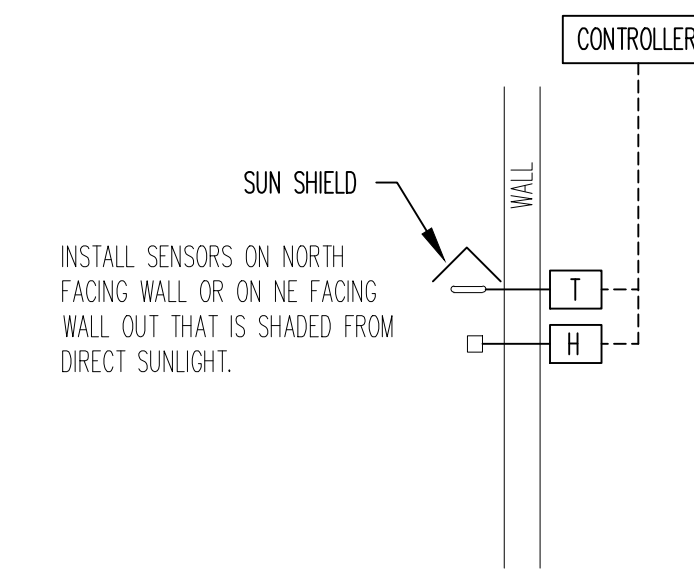
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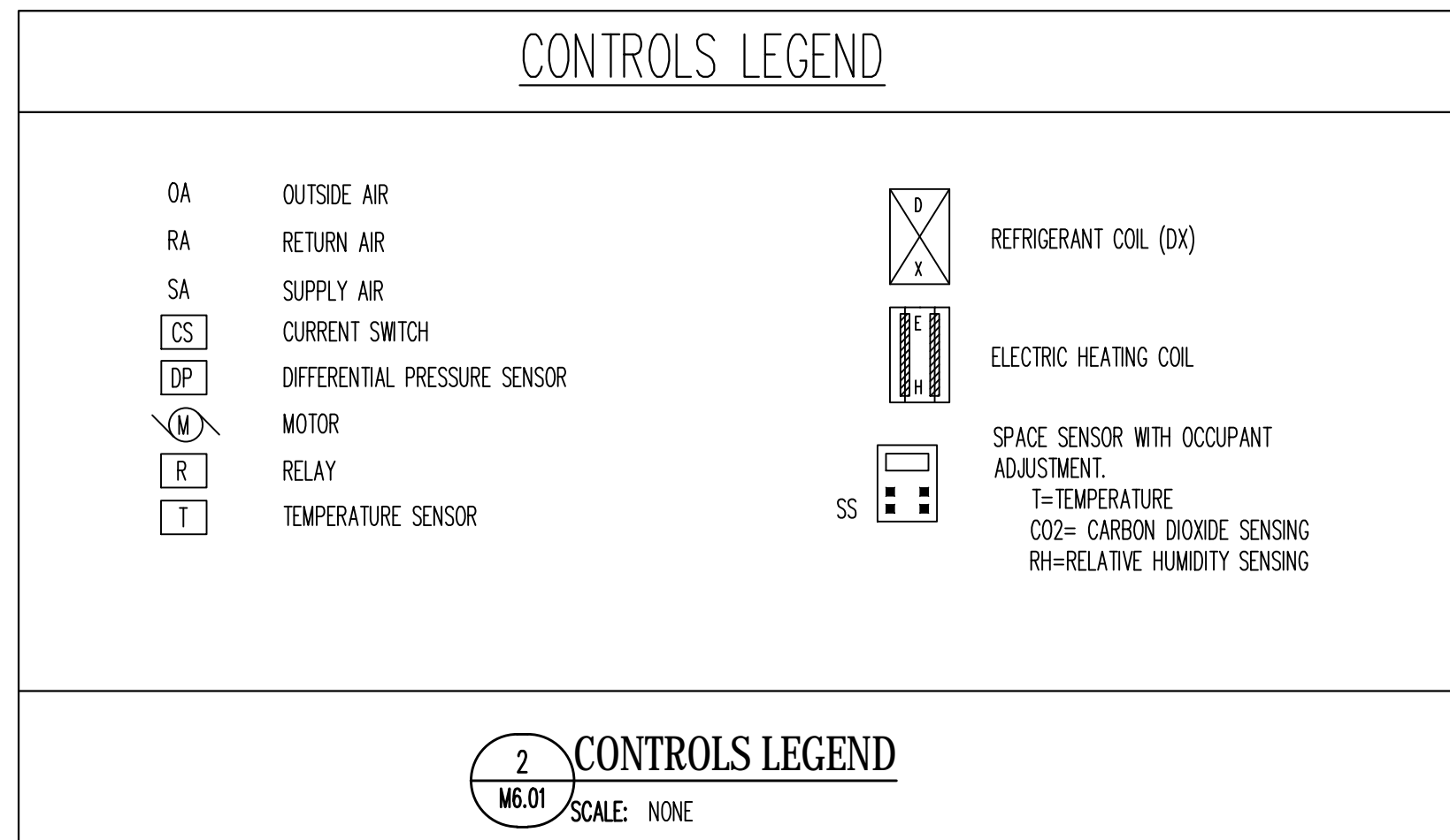
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3 GLOBAL INFORMATION SCHEMATIC
M6.01 SCALE: NONE



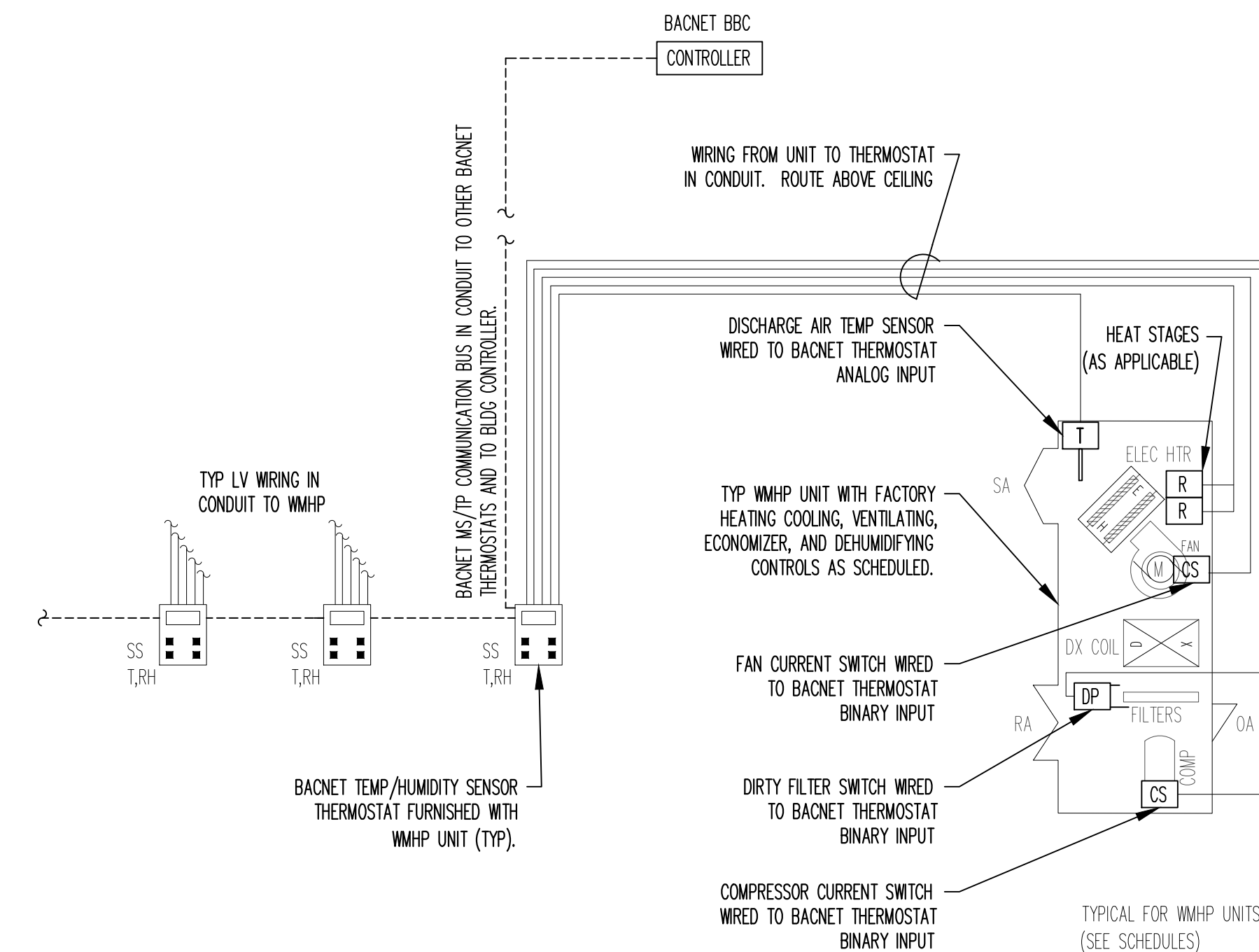
4 AMBIENT TEMPERATURE & HUMIDITY SENSOR SCHEMATIC
M6.01 SCALE: NONE



2 CONTROLS LEGEND
M6.01 SCALE: NONE

- DEMOLISH OLD TRANE TRACER SYSTEM. SALVAGE EQUIPMENT AND SENSORS TO OWNER FOR REUSE AS BACKUP STOCK FOR OTHER SITES.
- EXISTING CONTROLS CONDUITS MAY BE REUSED FOR NEW CONTROLS WIRING WHERE SUITABLE AND IN APPROPRIATE LOCATIONS FOR THE NEW INSTALLATION.
- PROVIDE ONSITE COMPUTER WORKSTATION IN THE MAIN ELECTRICAL RM.
- PROVIDE BUILDING CONTROLLER AND APPLICATION SPECIFIC CONTROLLER AS REQUIRED FOR EACH SYSTEM - SYSTEMS SHALL NOT SHARE INPUT/OUTPUT POINTS FROM A COMMON CONTROLLER.
- PROVIDE BACNET CONTROLS NETWORK WIRING IN CONDUIT TO CONNECT ALL BACNET THERMOSTATS AND CONTROLLERS.
- CONTROLS WIRING ON WALLS SHALL BE INSTALLED IN SURFACE MOUNTED CONDUITS OR WIREMOLD. CONDUITS SHALL BE SECURED FLUSH TO THE WALL WITH ANCHORED STRAP BRACKETS.
- PAINT NEW SURFACE CONDUITS IN FINISHED SPACES TO MATCH WALLS. CONCEALED CONDUITS AND CONDUITS IN UTILITY ROOMS DO NOT REQUIRE PAINTING.
- PROVIDE OVERALL GRAPHIC DISPLAY OF BUILDING WITH SYSTEM TAG NUMBERS, SENSORS, ROOMS, ZONES, ETC. SHOW ALARM FOR ZONES THAT ARE NOT WITHIN 0.5F OF SETPOINT FOR LONGER THAN 3 MINUTES.
- PROVIDE GRAPHIC DISPLAY FOR EACH WMHP SYSTEM SHOWING ALL INPUT AND OUTPUT POINTS. POINTS SHALL HAVE ON-SCREEN OVERRIDE CAPABILITY AND SHALL INDICATE WHEN MANUAL OVERRIDE IS ACTIVE.

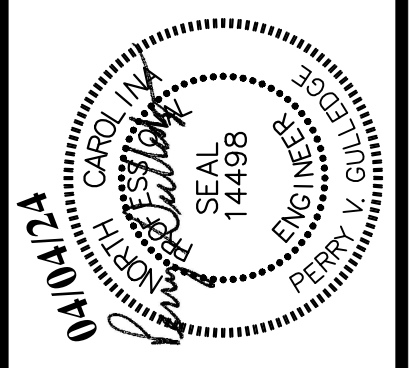
1 GENERAL CONTROLS NOTES
M6.01 SCALE: NONE



5 PACKAGED WALL MOUNT DX HEAT PUMP EQUIPMENT CONTROL SCHEMATIC
M6.01 SCALE: NONE

NOTE: FOR CLARITY, STANDARD LOW VOLTAGE WIRING FOR REVERSING VALVE, COMPRESSOR START, FAN START, ETC ARE NOT SHOWN. ONLY FIELD INSTALLED AND WIRED ITEMS ARE INDICATED.

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ENGINEERING THE PREMIER TRAD SINCE 1984
 PLUMBING AND MECHANICAL ELECTRICAL ENGINEERING

RENOVATIONS FOR BUILDING 1
PINCKNEY ACADEMY
MOORE COUNTY SCHOOLS
 160 Pinckney Rd. Carthage, North Carolina 28527

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GENERAL ELECTRICAL NOTES

- ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE WITH STATE AND LOCAL REVISIONS AND ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES.
- ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.
- GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY OWNER.
- MATERIALS AND EQUIPMENT SHALL BE NEW AND U.L. LISTED UNLESS SPECIFICALLY NOTED OTHERWISE.
- NOTE THAT THE TERM "PROVIDE" WHEN USED IN THESE DRAWINGS SHALL MEAN TO FURNISH, TRANSPORT TO THE SITE, INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS AND ADJUST FOR SAFE AND EFFICIENT OPERATION.
- VERIFY EXISTING WIRING CONTINUITY AND NEUTRAL ISOLATION WHEN WIRING NEW DEVICES TO EXISTING WIRING.
- COORDINATE WITH G.C. FOR SURFACE RACEWAY FINISH. UNLESS NOTED OTHERWISE, PAINT SURFACE RACEWAY TO MATCH WALL OR CEILING TO WHICH IT IS ATTACHED.
- GENERAL BUILDING WIRING SHALL BE COPPER CONDUCTORS, THW/THHN INSULATION RATED AT NOT LESS THAN 600 VOLTS. MINIMUM WIRE SIZE IS #12 AWG THHN. CONDUCTORS #6 AND LARGER SHALL BE STRANDED. SIZES #12 THRU #8 SHALL BE SOLID. WIRING TO EQUIPMENT SHALL BE AS REQUIRED BY U.L. LABEL. INSULATION COLOR SHALL BE COLOR CODED BASED ON THE SERVICE VOLTAGE.
- GENERAL BUILDING WIRING SHALL ONE OF THE FOLLOWING METHODS IN COMPLIANCE WITH NEC REQUIREMENTS:
 - INDIVIDUAL CONDUCTORS INSTALLED IN CONDUIT - FOR ALL FEEDERS, BRANCH CIRCUITS, SWITCHING, RECEPTACLES ETC.
 - MC CABLE WITH COPPER CONDUCTORS, ALUMINUM ARMOR, SEPARATE GROUND WIRE FOR LIGHT FIXTURE WHIPS AND EQUIPMENT CONNECTIONS ONLY. DO NOT USE MC CABLE FOR FEEDERS, BRANCH CIRCUITS, RECEPTACLES OR SWITCHLEG WIRING.
- TERMINALS, SPLICING CONNECTORS, LUGS, ETC. FOR CONNECTING CONDUCTORS SHALL BE LISTED FOR USE WITH THE TYPE OF CONDUCTOR CONNECTED AND SHALL BE PROPERLY INSTALLED.
- NEATLY ROUTE AND TRAIN CONDUCTORS IN PANEL ENCLOSURES AND SECURE BUNDLES OF CONDUCTORS WITH PLASTIC ZIP TIES. CONDUCTOR LEG RUNOUTS TO BREAKER TERMINALS SHALL RUN HORIZONTAL TO A 90 DEGREE BEND AT THE BUNDLE AND SHALL BE LABELED.
- CONDUIT SHALL BE INSTALLED WITH LISTED FITTINGS, SUPPORTS, ATTACHMENTS, STRAPS AND/OR CLAMPS. RUN CONDUIT PARALLEL OR PERPENDICULAR TO BUILDING WALLS. PROVIDE SEPARATE SUPPORT SYSTEM FOR CONDUIT.
- USE EMT CONDUIT INDOORS FOR SIZES 1/2" THRU 4". USE COMPRESSION GLAND FITTINGS AND COUPLINGS.
- USE RMC OR IMC FOR EXPOSED OUTDOOR APPLICATIONS. USE THREADED FITTINGS AND COUPLINGS.
- USE SCHEDULE 40 PVC BELOW GRADE OR FLOOR SLAB EXCEPT FIRST ELBOW SHALL BE RMC. SOLVENT WELD ALL FITTINGS AND COUPLINGS AND ADAPTERS. PROVIDE ADAPTERS TO TRANSITION TO METAL CONDUIT.
- USE IMC OR RMC WHERE OTHERWISE REQUIRED BY CODE OR WHERE SUBJECT TO PHYSICAL DAMAGE. USE IMC OR RMC FOR CONDUIT INSTALLED IN HAZARDOUS AREAS. USE IMC OR RMC ELBOWS WHERE TRANSITIONING FROM BELOW GRADE TO ABOVE GRADE.
- LABEL DEVICES AND EQUIPMENT. PROVIDE AN EMBOSSED ADHESIVE TAPE LABEL ON EACH RECEPTACLE, LIGHT SWITCH, EMERGENCY EGRESS LIGHTING FIXTURE, EXIT LIGHTING FIXTURE, CONTROL DEVICE STATION, AND OTHER MISCELLANEOUS ITEMS. INDICATE PANELBOARD AND CIRCUIT NUMBER ON THE LABEL TO READILY IDENTIFY WHERE THE DEVICE IS SERVED FROM. LABELS FOR LIGHT SWITCHES SHALL BE PLACED ON THE BACK OF THE COVERPLATE. THE LETTERING SHALL BE 3/16" WHITE LETTERS ON BLACK BACKGROUND OR BLACK LETTERS ON CLEAR BACKGROUND.
- LABEL INDIVIDUAL CONDUCTORS IN PANELBOARD, SWITCHBOARDS, JUNCTION BOXES, DEVICE BOXES, ETC. WITH WIRE MARKERS IDENTIFYING THE CIRCUIT POSITION NUMBER TO WHICH THE CONDUCTOR IS CONNECTED.
- FINAL LABELING FOR PANEL DIRECTORIES SHALL BE PER THE FINAL ROOM NUMBERS OR NAMES. THE PANEL DIRECTORIES SHALL BE TYPED.
- A COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH ARTICLE 250 OF THE CURRENT NEC SHALL BE INSTALLED (OR VERIFIED IF AN EXISTING SYSTEM), AND AS SHOWN ON THE DRAWINGS.
- PROVIDE ALL CUTTING AND PATCHING OF WALLS AND FLOORS AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL EQUIPMENT.
- PROVIDE NYLON PULL WIRE IN ALL EMPTY CONDUITS.
- PROTECT ALL ELECTRICAL EQUIPMENT FROM ENTRY OF FOREIGN MATERIAL SUCH AS PAINT, SPACKLE, FIREPROOFING, ETC. DURING CONSTRUCTION. REPLACE ALL EQUIPMENT THAT IS CONTAMINATED BY OVERSPRAY OF PAINT, SPACKLE, FIREPROOFING, ETC.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	LINEAR LIGHT FIXTURE - LETTER INDICATES FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	CIRCULAR LIGHT FIXTURE - FIRST LETTER INDICATES FIXTURE TYPE. "EP" INDICATES EMERGENCY LIGHTING FUNCTION WITH BATTERY BACKUP. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	INDICATES LIGHTING FIXTURE TO BE USED AS A NIGHTLIGHT. FIXTURE SHALL BE CONNECTED UNSWITCHED TO THE LOCAL LIGHTING CIRCUIT OR DEDICATED EGRESS LIGHTING CIRCUIT.
	UNIVERSAL MOUNT EMERGENCY EXIT FIXTURE (SHADING INDICATES FACES). ARROW INDICATES DIRECTIONAL ARROWS REQUIRED. MOUNT TO CEILING AT LOCATION INDICATED. MOUNT TO WALL IF CEILING IS HIGHER THAN 12'-0". PROVIDE WIRE GUARD COVER ANCHORED TO WALL. CIRCUIT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING.
	EMERGENCY EGRESS LIGHTING UNIT WITH 90 MINUTE BATTERY POWERED BACKUP AND DUAL LED HEADS. MOUNT 7'6" AFF UNLESS NOTED OTHERWISE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS. PROVIDE WIRE GUARD COVER ANCHORED TO WALL.
	WALL MOUNTED EXTERIOR LIGHT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS. MOUNT 12" AFF UNLESS NOTED OTHERWISE.
	EXTERIOR EMERGENCY EGRESS LIGHTING UNIT WITH 90 MINUTE BATTERY POWERED BACKUP. MOUNT CENTERED ABOVE DOOR UNLESS NOTED OTHERWISE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	SURFACE MOUNTED PANELBOARD
	JUNCTION BOX SIZED PER N.E.C. REQUIREMENTS. "WP" INDICATES WEATHERPROOF.
	WIRING AND RACEWAY CONCEALED IN WALLS AND/OR ABOVE CEILING
	SWITCH LEG WIRING AND RACEWAY CONCEALED IN WALLS AND/OR ABOVE CEILING
	WIRING AND RACEWAY CONCEALED IN/OR UNDER FLOOR OR UNDERGROUND
	INDICATES CONDUIT TURNED DOWN TO FLOOR BELOW
	INDICATES CONDUIT TURNED UP TO FLOOR ABOVE
	CIRCUIT HOMERUN WITH PANEL DESIGNATION AND CIRCUIT NUMBER.
	120, 208, 277, OR 480 VOLT MOTOR AS NOTED ON PLANS
	HEAVY DUTY LOCKABLE DISCONNECT SWITCH - FUSED OR NON-FUSED AS INDICATED - BY E.C. VOLTAGE/#POLES/AMPERAGE/ANEMA RATING/FUSE CONDITION FUSE CONDITION AS FOLLOWS: NF=(NON-FUSED), FPN=(FUSE PER EQUIPMENT NAMEPLATE), XXXAFU=FUSED WITH XXX AMP FUSES. FURNISH WITH GROUND BAR. FURNISH WITH SOLID NEUTRAL WHEN A NEUTRAL CONDUCTOR IS INCLUDED IN THE CIRCUIT OR FEEDER.
	COMBINATION STARTER AND FUSED DISCONNECT SWITCH - BY E.C. UNLESS NOTED OTHERWISE
	SINGLE POLE SWITCH - 20A - 120/277V - MOUNT 44" A.F.F. "3" INDICATES 3-WAY SWITCHING, "D" INDICATES DIMMING FUNCTION, "OS" INDICATES OCCUPANCY SENSOR FUNCTION.
	2-POLE OR 3-POLE MANUAL MOTOR STARTER. PROVIDE WITH OVERLOAD PROTECTION.
	OCCUPANCY SENSOR - "H" INDICATES LINE VOLTAGE. "L" INDICATES LOW VOLTAGE TYPE TO BE FURNISHED WITH POWER PACK AND ASSOCIATED WIRING.
	STANDARD 20A. OUTLET - NEMA 5-20R DUPLEX. MOUNT 16" A.F.F. UNLESS NOTED OTHERWISE. "G" DENOTES GFCI NON-FEED THRU TYPE, "EW" DENOTES GFCI OUTLET FOR ELECTRICAL WATER COOLER - COORDINATE LOCATION WITH PLUMBING CONTRACTOR, "WP" DENOTES WEATHERPROOF IN USE NEMA 5-20R DUPLEX, "ACT" DENOTES MOUNTED ABOVE COUNTER TOP OR BACKSPLASH, "TR" DENOTES TAMPER RESISTANT.
	GROUNDING FOR SERVICE OR SEPARATELY DERIVED SYSTEM PER N.E.C.
	INDICATES CONDUIT STUBBED OUT INTO SPACE - PROVIDE CONDUIT BUSHING
	DATA OUTLET BOX WITH MODULAR COVER PLATE AND 1" CONDUIT TO DATA SERVICE ENTRANCE BOARD. PROVIDE BUSHING ON OPEN END AND (2)CAT 5e CABLES WITH 5' COIL AT EACH END.
	FIRE ALARM COMBINATION PHOTOELECTRIC SMOKE DETECTOR/RATE-OF-RISE HEAT DETECTOR/CARBON MONOXIDE DETECTOR. INSTALL SURFACE MOUNTED ON CEILING.

ELECTRICAL SUMMARY - CAMERON

ELECTRICAL SYSTEM AND EQUIPMENT	
ENERGY CODE	<input checked="" type="checkbox"/> PRESCRIPTIVE <input type="checkbox"/> PERFORMANCE
ASHRAE 90.1	<input type="checkbox"/> PRESCRIPTIVE <input type="checkbox"/> PERFORMANCE
LIGHTING FIXTURE SCHEDULE (EACH FIXTURE TYPE)	
LAMP TYPE REQUIRED IN FIXTURE	SEE SCHEDULE
NUMBER OF LAMPS IN FIXTURE	SEE SCHEDULE
BALLAST TYPE USED IN FIXTURE	SEE SCHEDULE
NUMBER BALLAST IN FIXTURE	SEE SCHEDULE
TOTAL WATTAGE PER FIXTURE	SEE SCHEDULE
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED	5.88 KW vs 9.65 KW
(WHOLE BUILDING OR SPACE BY SPACE)	
TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED	N/A KW vs N/A KW
ADDITIONAL PRESCRIPTIVE COMPLIANCE	
<input type="checkbox"/>	406.1.1 MORE EFFICIENT MECHANICAL EQUIPMENT
<input checked="" type="checkbox"/>	406.1.2 REDUCED LIGHTING POWER DENSITY
<input type="checkbox"/>	406.1.3 ENHANCED LIGHTING CONTROLS
<input type="checkbox"/>	406.1.4 ON SITE SUPPLY OF RENEWABLE ENERGY
<input type="checkbox"/>	406.1.5 DEDICATED OUTSIDE AIR SYSTEM FOR CERTAIN HVAC EQUIP
<input type="checkbox"/>	406.1.6 HIGH-EFFICIENCY SERVICE WATER HEATING

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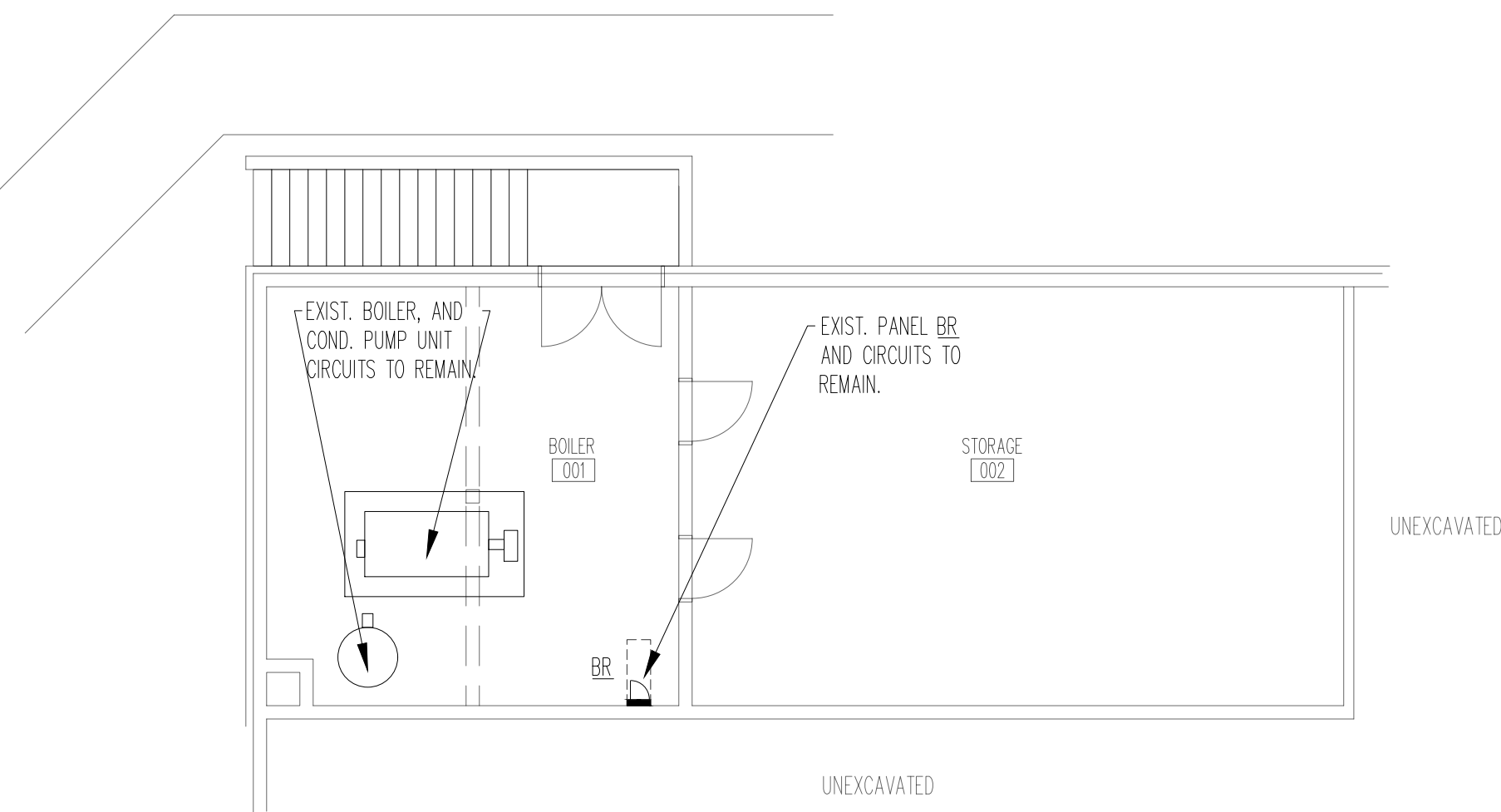
RENOVATIONS FOR BUILDING 1

PINCKNEY ACADEMY
MOORE COUNTY SCHOOLS

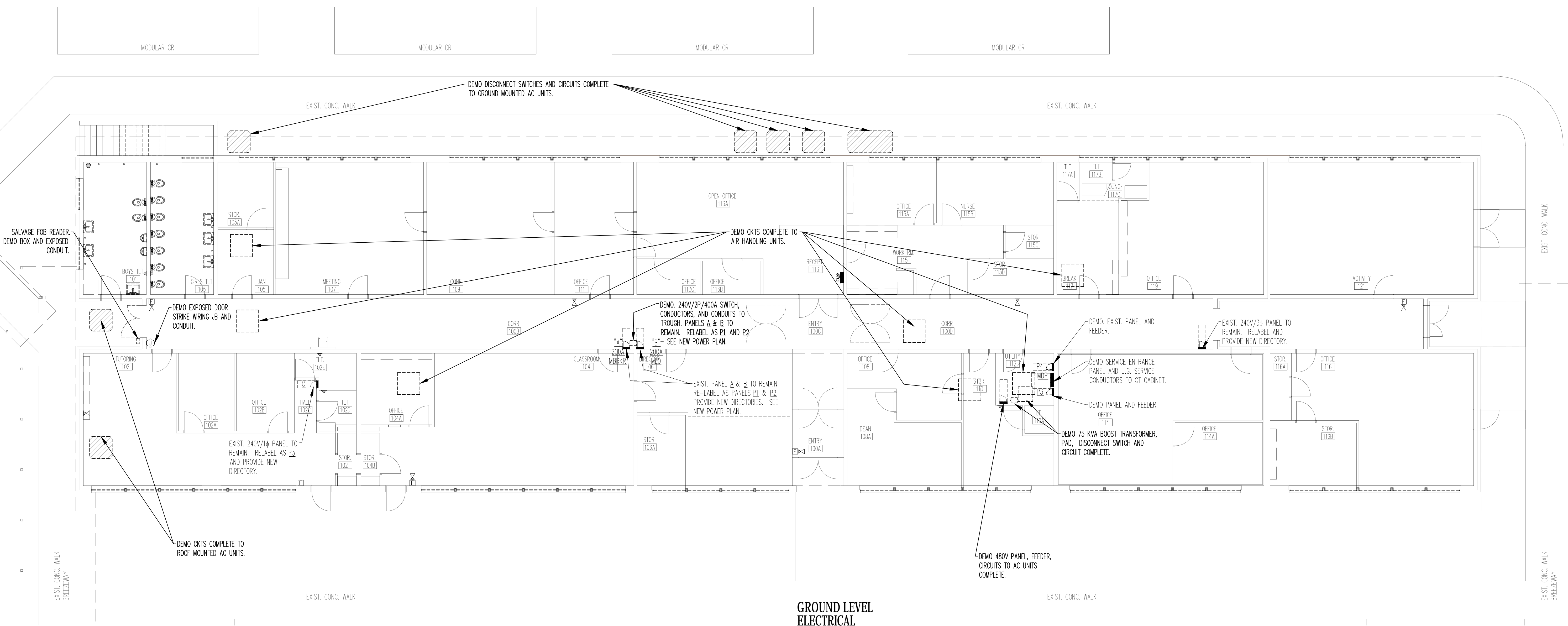
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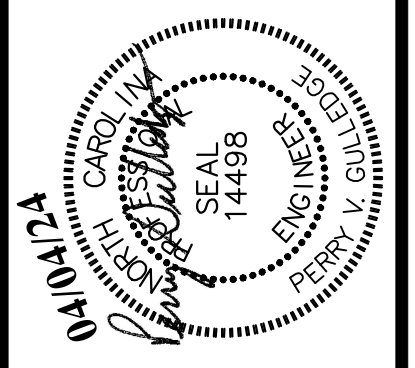
UNEXCAVATED
**BASEMENT - BOILER ROOM
 ELECTRICAL
 DEMOLITION PLAN**
 1
 E1.01 SCALE: 1/8" = 1'-0"



**GROUND LEVEL
 ELECTRICAL
 DEMOLITION PLAN**
 2
 E1.01 SCALE: 1/8" = 1'-0"

- POWER AND LIGHTING DEMOLITION NOTES:**
1. PROTECT FLOOR AND WALL FINISHES FROM DAMAGE DURING THE DEMOLITION AND RENOVATION ACTIVITIES.
 2. DEMO CIRCUITS (CONDUIT, CONDUCTORS, ATTACHMENTS, ETC) FOR ALL EQUIPMENT THAT IS TO BE REMOVED. REMOVE CIRCUIT TO SOURCE.
 3. DEMO LIGHT FIXTURES, SUPPORTS, AND CIRCUITS TO SOURCE.
 4. PROTECT ALL EXISTING GEAR, CONDUITS, CAMERAS, FIRE ALARM DEVICES, AND OTHER EQUIPMENT NOTED TO REMAIN. PROTECT FROM DAMAGE AND ENSURE CONTINUITY OF POWER AND DATA.
 5. EXIST WIRING DEVICES IN AND ON EXISTING WALLS ARE TO REMAIN.
 6. CEILING MOUNTED CAMERAS, WIRELESS ACCESS POINTS, ETC ARE TO BE TEMPORARILY SUPPORTED WHEN CEILING IS REMOVED, THEN REINSTALLED IN NEW CEILING TILES IN THE SAME LOCATION.
 7. PATCH HOLES IN WALLS, CEILINGS, ETC. WHERE CONDUITS OR DEVICES ARE REMOVED. PATCH WITH MATERIAL SUITABLE WITH EXISTING CONSTRUCTION AND PAINT TO MATCH ADJACENT FINISHES.
 8. SURFACE RECEPTACLES AND RACEWAYS AND THEIR ASSOCIATED CIRCUITS THAT HAVE BEEN ADDED SINCE ORIGINAL CONSTRUCTION SHALL REMAIN.
 9. ENSURE CONTINUITY IS MAINTAINED FOR CIRCUITS AND DEVICES THAT REMAIN. IN THE EVENT CIRCUITS ARE INTERRUPTED PROVIDE #12 COPPER CONDUCTORS AND GROUND IN 1/2" EMT CONDUIT AS REQUIRED TO RESTORE CIRCUIT CONTINUITY.
 10. EXISTING CAMERAS, SPEAKER, ETC ON INTERIOR AND EXTERIOR WALLS OF BUILDING ARE TO REMAIN. PROTECT FROM DAMAGE AND ENSURE CABLE IS MAINTAINED TO DEVICES.
 11. TRACE EXISTING CIRCUITS THAT REMAIN AND PROVIDE UPDATED PANEL DIRECTORY FOR EACH EXISTING PANEL THAT REMAINS REFLECTING THE NEW LOADS. USE ROOM DESCRIPTIONS PER THE ROOM NAMES/NUMBERS USED ON THE SITE. NOTE THAT THE ROOM NAMES AND NUMBERS LISTED ON THE PLAN ARE TO BE USED FOR INITIAL REFERENCE ONLY.

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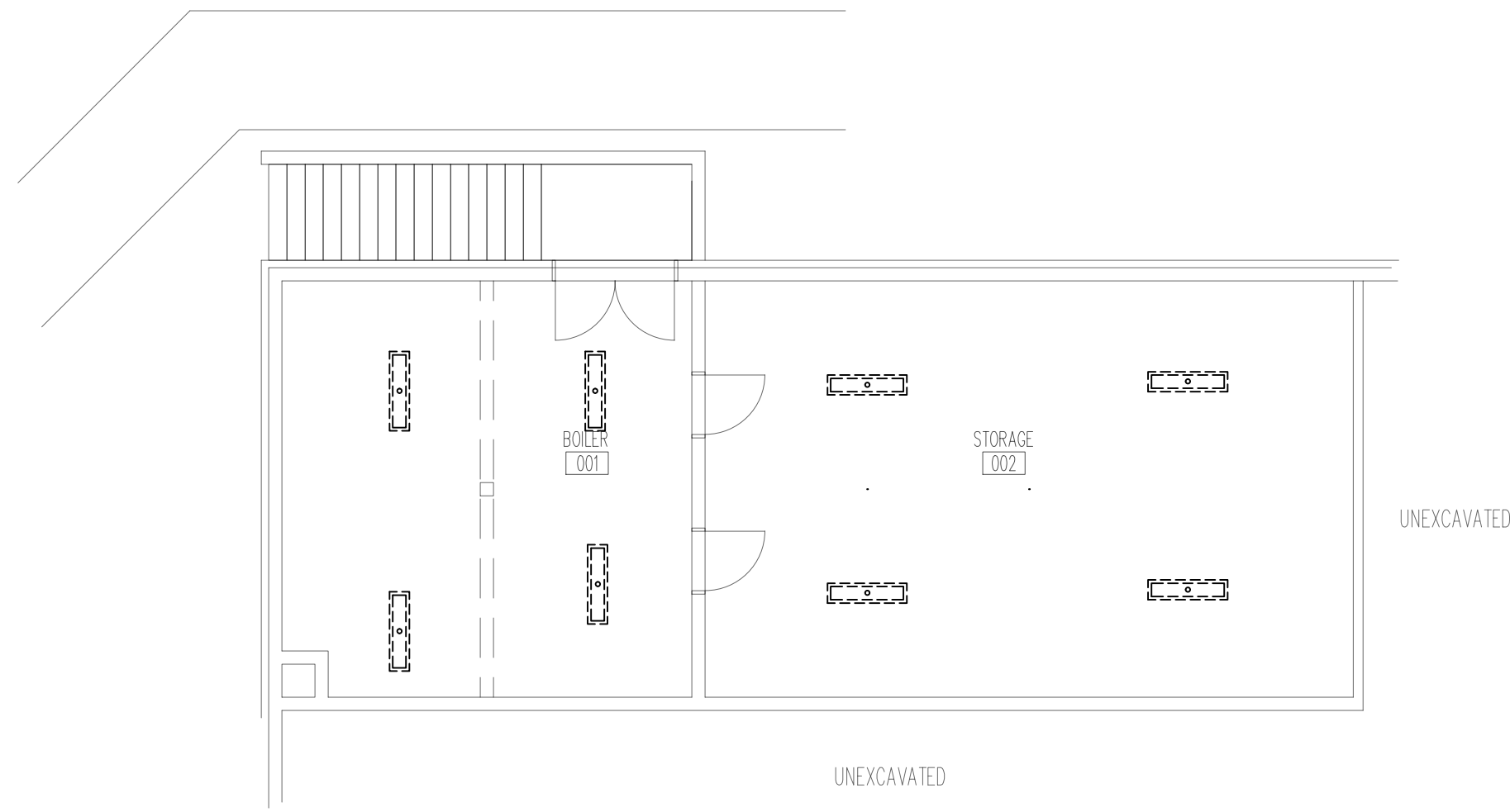
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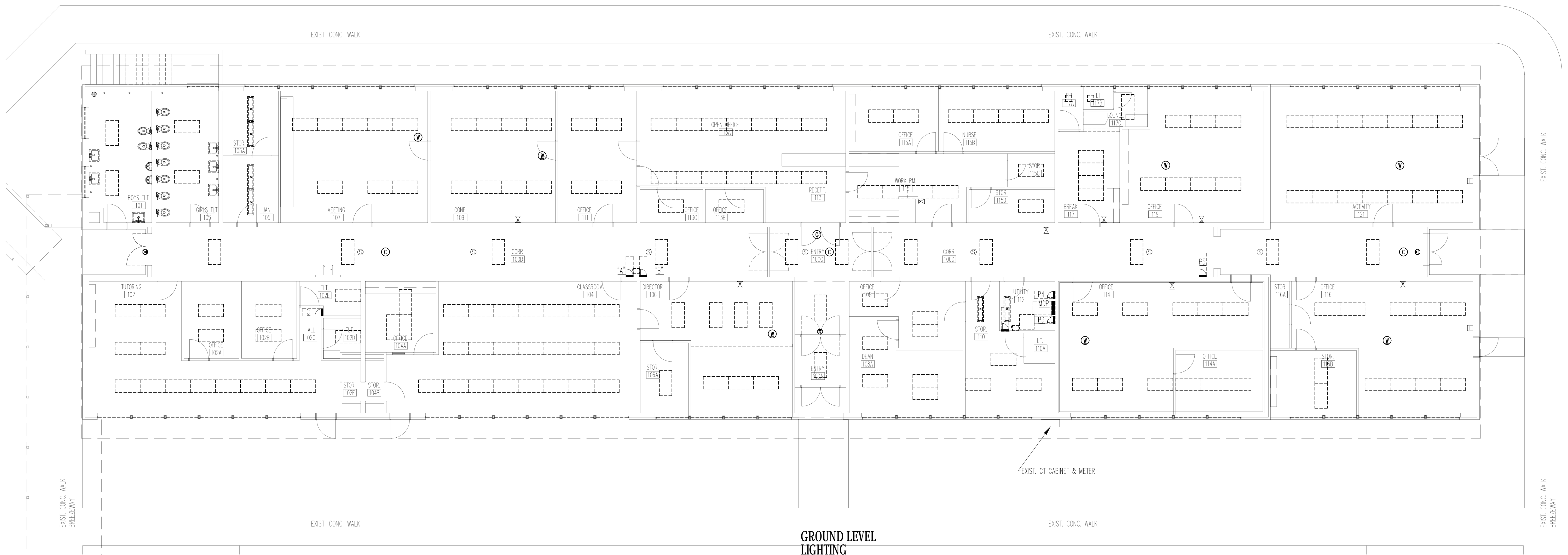
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EXIST. CONC. WALK REFERRED TO

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**BASEMENT - BOILER ROOM
 LIGHTING
 DEMOLITION PLAN**
 1
 E1.02 SCALE: 1/8" = 1'-0"

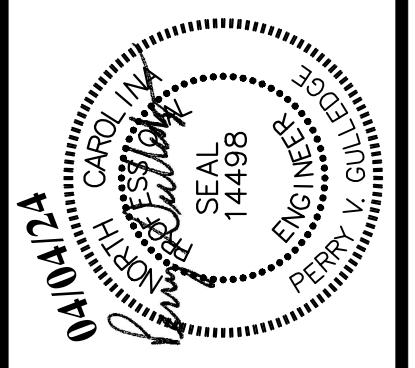


**GROUND LEVEL
 LIGHTING
 DEMOLITION PLAN**
 2
 E1.02 SCALE: 1/8" = 1'-0"

EXIST. CONC. WALK BREEZEWAY

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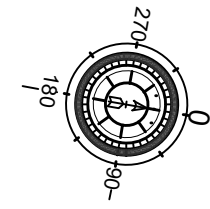
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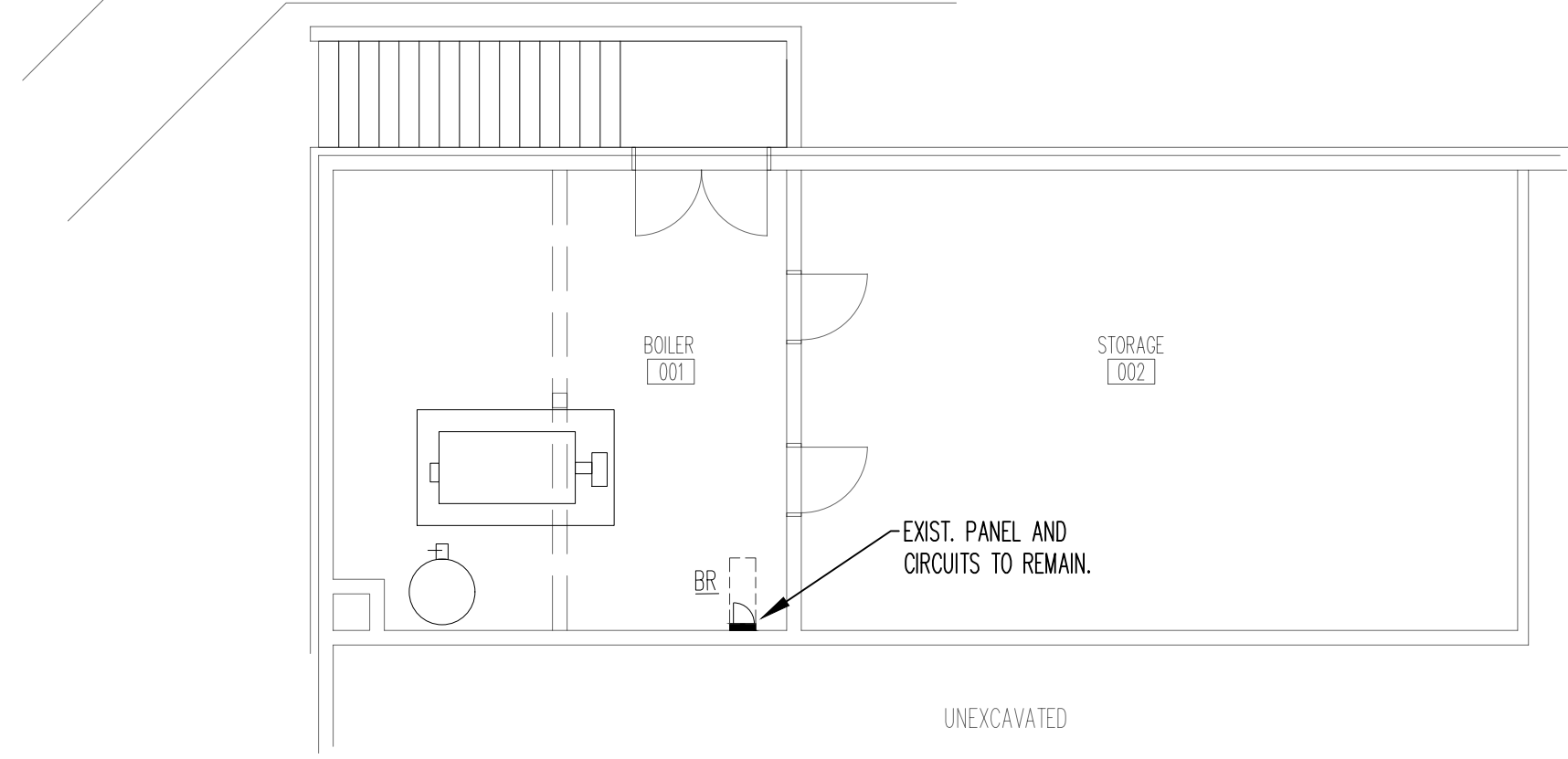


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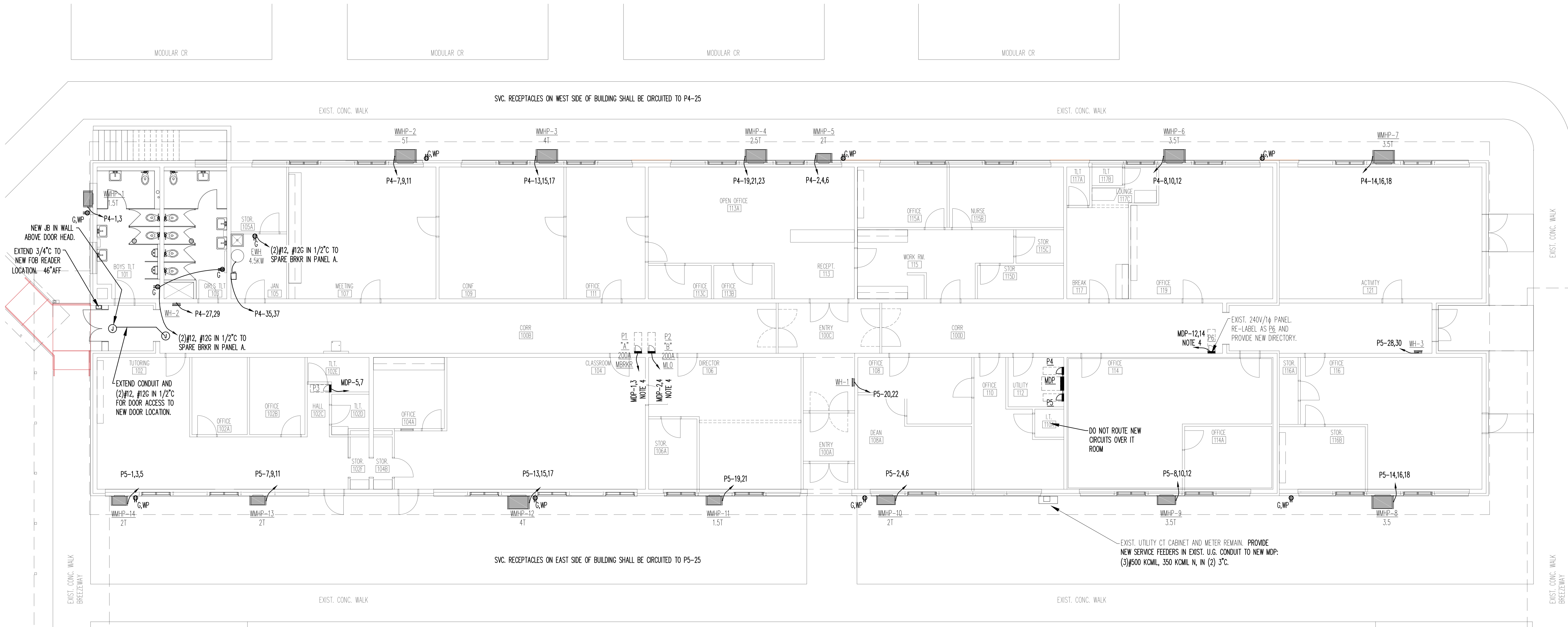
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SHEET NO.
E1.02





**BASEMENT - BOILER ROOM
ELECTRICAL - POWER
RENOVATION PLAN**
1
E1.11 SCALE: 1/8" = 1'-0"

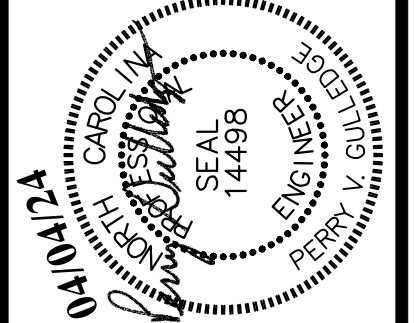


**GROUND LEVEL
ELECTRICAL - POWER
RENOVATION PLAN**
2
E1.11 SCALE: 1/8" = 1'-0"

- POWER PLAN NOTES:**
1. WMHP UNITS ARE FURNISHED WITH CIRCUIT BREAKER DISCONNECT.
 2. CIRCUITS TO WMHP UNITS AND SERVICE RECEPTACLES SHALL BE RUN ABOVE CEILING TO EOPT. LOCATION, THEN THRU WALL TO WP JUNCTION BOX AND DROP TO UNIT CONNECTION LOCATION. MAKE FINAL CONNECTION TO UNITS WITH LIQUID TITE FLEX.
 3. DO NOT ROUTE NEW CIRCUITS OVER IT ROOM.
 4. SEE RISER DIAGRAM FOR FEEDER DESCRIPTIONS.

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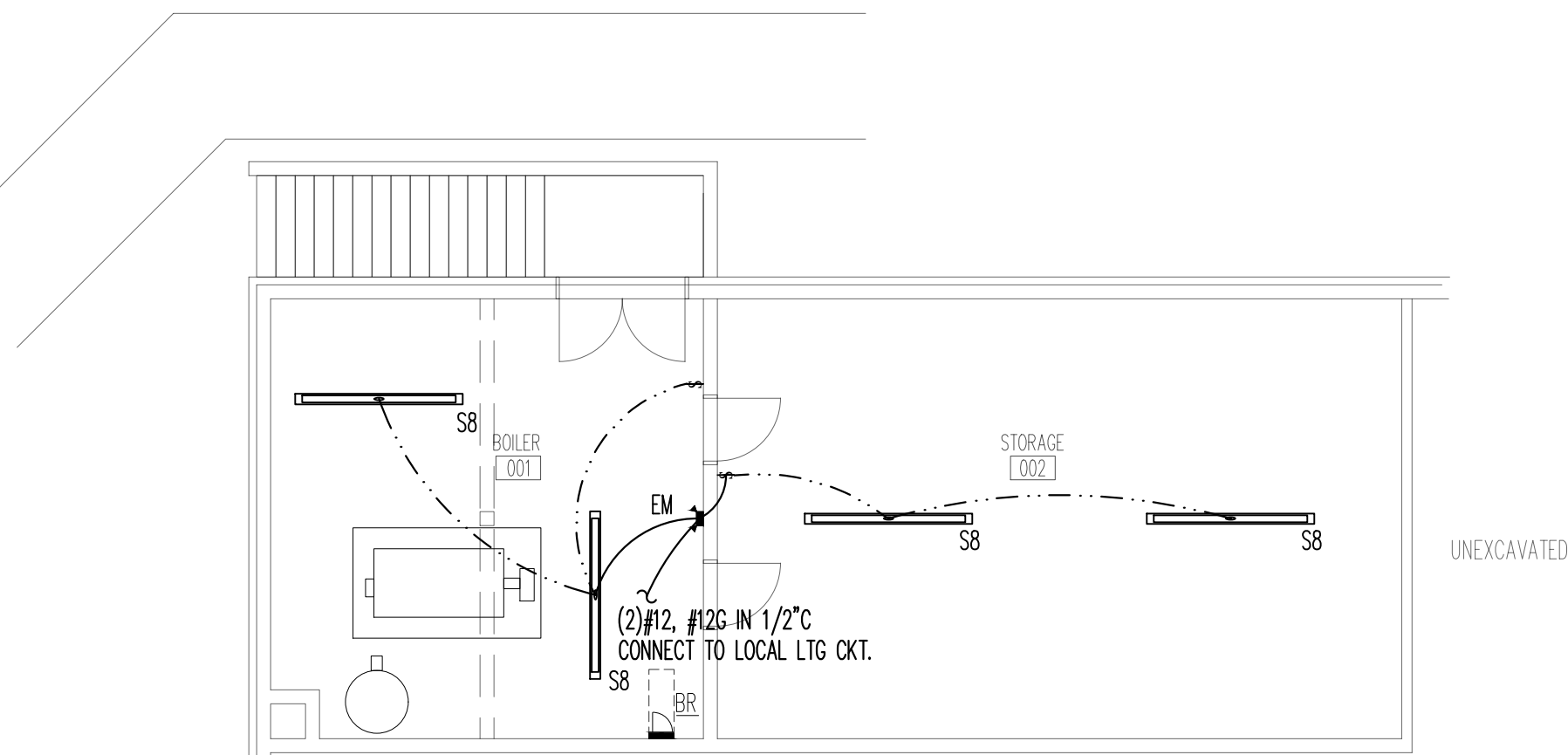
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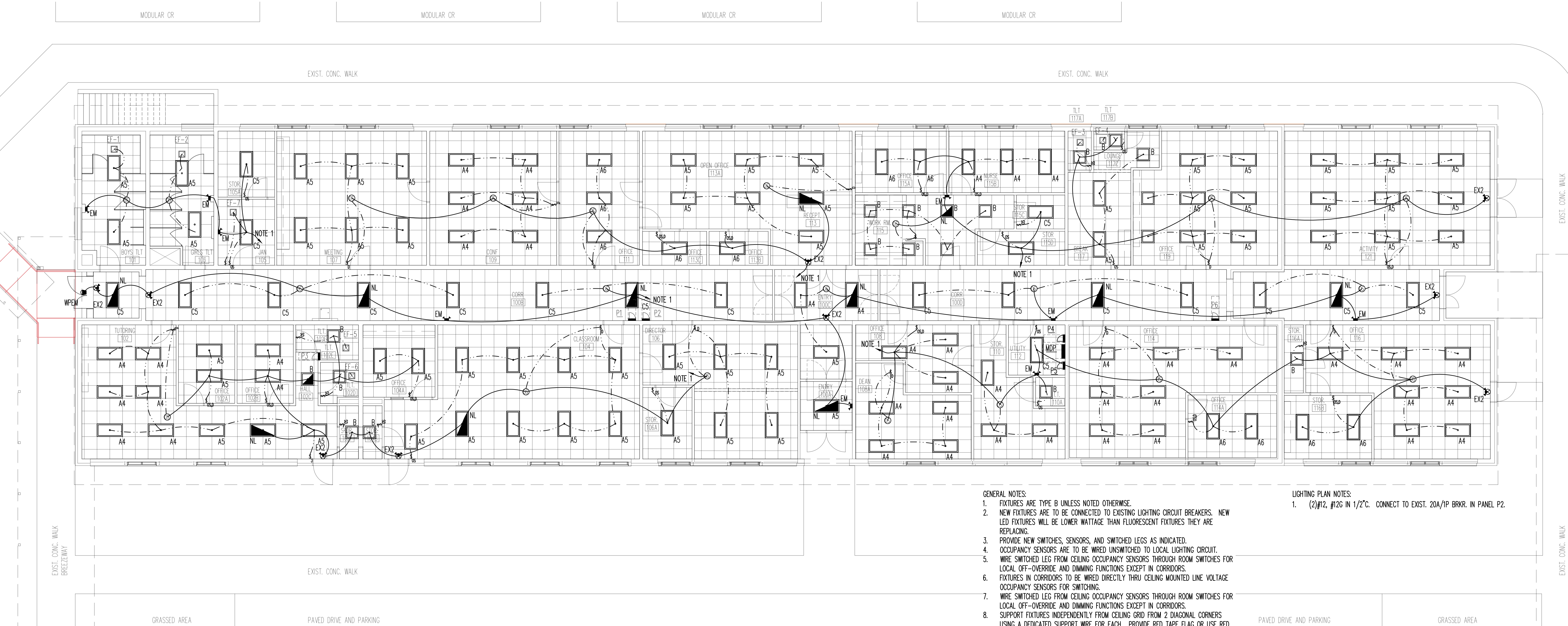
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UNEXCAVATED
**BASEMENT - BOILER ROOM
 MECHANICAL
 HVAC PLAN**
 1
 E1.21 SCALE: 1/8" = 1'-0"

MARK	MANUFACTURER (OR EQUAL)	MODEL NUMBER	LAMPS		FITTURE WATTS	VOLTAGE	MOUNTING	REMARKS
			QTY.	TYPE				
A4	LITHONIA	CPANL 2x4 ALO6 40/50/60LM LM 40K	1	4,450 LUMEN, 4000K LED	34.4	120	LAY-IN GRID	2x4 LOW GLARE FLAT PANEL LED WITH SATIN WHITE PANEL LENS AND WHITE PAINTED ALUMINUM FRAME. SWITCHABLE LUMEN AND COLOR SET FOR 40K AND 4000 LUMEN.
A5	LITHONIA	CPANL 2x4 ALO6 40/50/60LM LM 40K	1	5,509 LUMEN, 4000K LED	43.3	120	LAY-IN GRID	2x4 LOW GLARE FLAT PANEL LED WITH SATIN WHITE PANEL LENS AND WHITE PAINTED ALUMINUM FRAME. SWITCHABLE LUMEN AND COLOR SET FOR 40K AND 5000 LUMEN.
A6	LITHONIA	CPANL 2x4 ALO6 40/50/60LM LM 40K	1	6,579 LUMEN, 4000K LED	52.7	120	LAY-IN GRID	2x4 LOW GLARE FLAT PANEL LED WITH SATIN WHITE PANEL LENS AND WHITE PAINTED ALUMINUM FRAME. SWITCHABLE LUMEN AND COLOR SET FOR 40K AND 5000 LUMEN.
B	LITHONIA	CPANL 2x2 AL01 SWW7 M4 24/33/44LM 35/40/50K	1	2,340 LUMEN, 4000K LED	18.8	120	LAY-IN GRID	2x2 LOW GLARE FLAT PANEL LED WITH SATIN WHITE PANEL LENS AND WHITE PAINTED ALUMINUM FRAME. SWITCHABLE LUMEN AND COLOR SET FOR 40K AND 2400 LUMEN.
C5	LITHONIA	2GTL4 48L A19 EZ1 LP840 BAA	1	4,968 LUMEN, 4000K LED	35.8	120	LAY-IN GRID OR SURFACE	2x4 LED GENERAL PURPOSE TROFFER FIXTURE WITH 0.156" THICK ACRYLIC PRISMATIC LENS. PROVIDE MATCHING SMKSH PAINTED STEEL SURFACE KIT FOR FIXTURES TO BE SURFACE MOUNTED ON GYPSUM CEILINGS.
S8	LITHONIA	CSS L96 8000LM 40K	1	8,596 LUMEN, 4000K LED	72	120	SUSPENDED 8'AFF	8' LED STRIP FIXTURE WITH LENS. PROVIDE WITH WIRE GUARD AND CHAIN OR AIRCRAFT CABLE SUSPENSION KIT TO SUSPEND FROM STRUCTURE.
EM	LITHONIA	ELM6L UVOLT LTP SDRT	2	LED 1100 LUMEN/10.6W LAMPS	21.2	3.7	MVOLT UNIVERSAL MOUNT	LED EMERGENCY EGRESS FIXTURE WHITE HOUSING WITH DUAL LED LIGHTING HEADS. SELF-DIAGNOSTICS. MOUNT 7" AFF. CONNECT TO UNSWITCHED CONDUCTOR ON THE LOCAL LIGHTING CIRCUIT. NOTE 2.
EX2	LITHONIA	LHQM LED R SD BAA	2	LED	2	120/277	UNIVERSAL MOUNT	LED EMERGENCY EXIT WITH DUAL EMERGENCY LIGHT HEADS. WHITE PLASTIC WITH RED LETTERS. NUMBER OF FACES AND DIRECTIONAL ARROWS AS REQUIRED. MOUNT ABOVE DOOR FRAME OR AS INDICATED. CONNECT TO UNSWITCHED CONDUCTOR ON THE LOCAL LIGHTING CIRCUIT. NOTE 2.

- NOTES:
 1 OR EQUAL FIXTURES BY COOPER, COLUMBIA, GE, OR HUBBELL.
 2 BATTERY BACKUP SHALL PROVIDE A MINIMUM OF 90 MINUTES BACKUP OPERATION ON FAILURE OF NORMAL
 3 PROVIDE ACCESSORIES AS REQUIRED FOR MOUNTING CONDITIONS

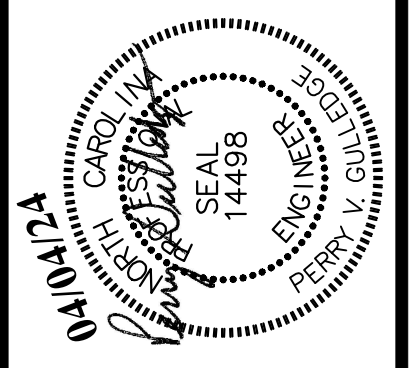


- GENERAL NOTES:
 1. FIXTURES ARE TYPE B UNLESS NOTED OTHERWISE.
 2. NEW FIXTURES ARE TO BE CONNECTED TO EXISTING LIGHTING CIRCUIT BREAKERS. NEW LED FIXTURES WILL BE LOWER WATTAGE THAN FLUORESCENT FIXTURES THEY ARE REPLACING.
 3. PROVIDE NEW SWITCHES, SENSORS, AND SWITCHED LEGS AS INDICATED.
 4. OCCUPANCY SENSORS ARE TO BE WIRED UNSWITCHED TO LOCAL LIGHTING CIRCUIT.
 5. WIRE SWITCHED LEG FROM CEILING OCCUPANCY SENSORS THROUGH ROOM SWITCHES FOR LOCAL OFF-OVERRIDE AND DIMMING FUNCTIONS EXCEPT IN CORRIDORS.
 6. FIXTURES IN CORRIDORS TO BE WIRED DIRECTLY THRU CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSORS FOR SWITCHING.
 7. WIRE SWITCHED LEG FROM CEILING OCCUPANCY SENSORS THROUGH ROOM SWITCHES FOR LOCAL OFF-OVERRIDE AND DIMMING FUNCTIONS EXCEPT IN CORRIDORS.
 8. SUPPORT FIXTURES INDEPENDENTLY FROM CEILING GRID FROM 2 DIAGONAL CORNERS USING A DEDICATED SUPPORT WIRE FOR EACH. PROVIDE RED TAPE FLAG OR USE RED PAINTED SUPPORT WIRE TO IDENTIFY ELECTRICAL SUPPORT WIRES.
 9. FIXTURES DESIGNATED "NL" INDICATE UNSWITCHED NIGHT LIGHT CIRCUIT.
 10. EMERGENCY EXIT AND EGRESS LIGHTS ARE TO BE CIRCUITED UNSWITCHED TO LOCAL LIGHTING CIRCUIT.
- LIGHTING PLAN NOTES:
 1. (2)#12, #12G IN 1/2" C. CONNECT TO EXIST. 20A/1P BRKR. IN PANEL P2.

2
**GROUND LEVEL
 ELECTRICAL - LIGHTING
 RENOVATION PLAN**
 E1.21 SCALE: 1/8" = 1'-0"

REVISIONS

NO.	DATE	BY	CHECKED
2313	04/04/24	PVG	PVG



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 2313

ENGINEERING THE PREMIER MECHANICAL AND ELECTRICAL ENGINEERING FIRM SINCE 1984

RENOVATIONS FOR BUILDING 1
**PINCKNEY ACADEMY
 MOORE COUNTY SCHOOLS**
 160 Pinckney Rd. Carthage, North Carolina 28527

SHEET NO.

E1.21

2313E.dwg 2024/04/04

