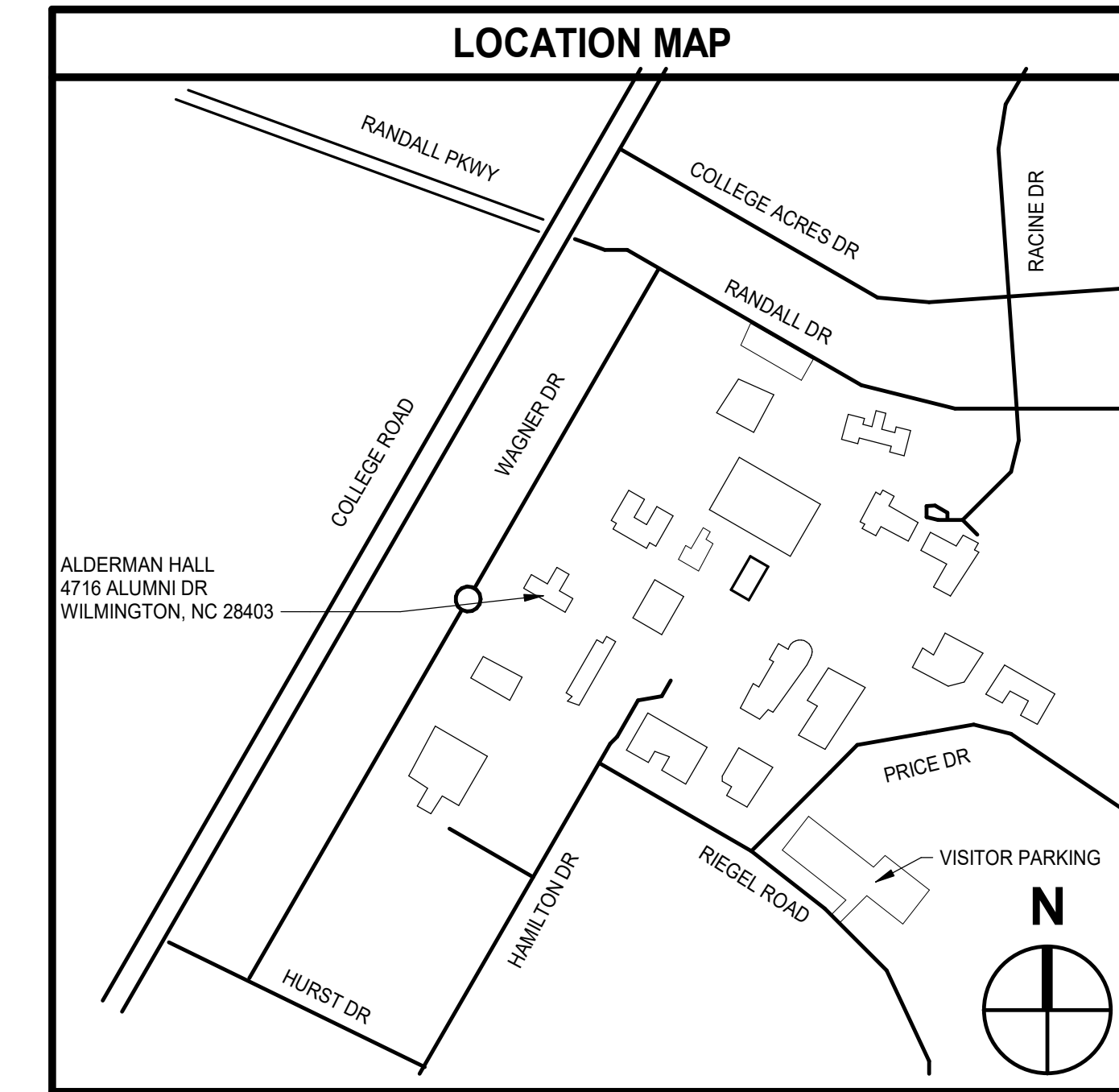
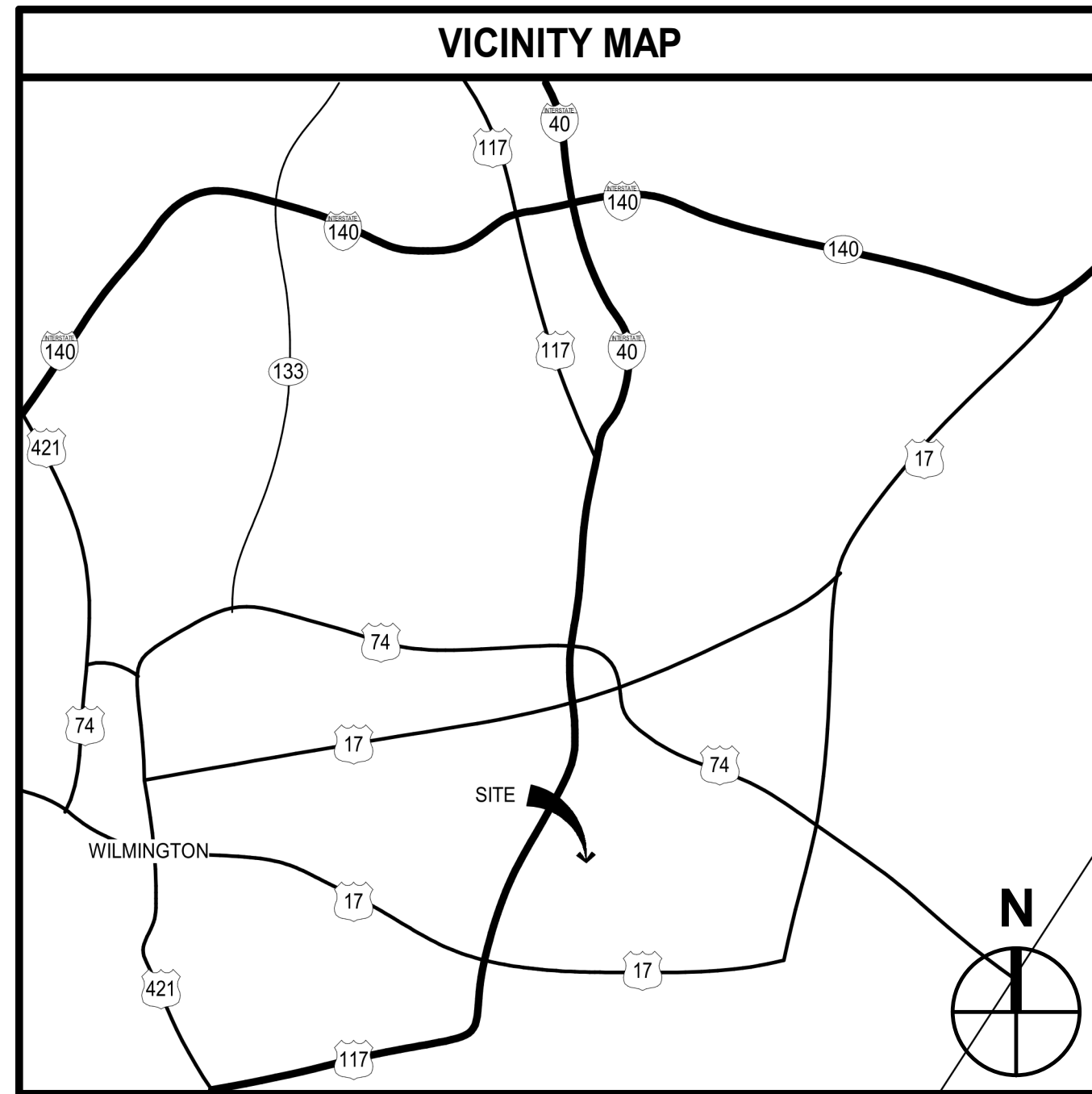


ALDERMAN HALL RENOVATION

SCO # 22-24639-01B WILMINGTON NORTH CAROLINA UNIVERSITY OF NORTH CAROLINA WILMINGTON

MOSELEYARCHITECTS

911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
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MOSELEYARCHITECTS.COM



Palacio Collaborative
4819 Emperor Boulevard

Cost Management
Durham, NC 27703

DRAWING INDEX

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STRUCTURAL		
S1.1 DETAILS, DIAGRAMS, GENERAL NOTES AND SCHEDULES		

AN ASBESTOS INSPECTION WAS PERFORMED AND ASBESTOS CONTAINING MATERIALS WERE FOUND GENERALLY IN THE AREAS INDICATED. THE ASBESTOS SURVEY INSPECTION REPORT IS AVAILABLE TO THE CONTRACTOR FOR HIS INFORMATION. THE ASBESTOS CONTAINING MATERIALS SHALL NOT BE DISTURBED IN THE WORK AREA EXCEPT WHERE INDICATED AND REQUIRED TO COMPLETE THE WORK DEFINED IN THESE DOCUMENTS. ASBESTOS CONTAINING MATERIALS SHALL BE REMOVED BY THE OWNER UNDER A SEPARATE CONTRACT WITH OWNER USING APPROVED METHODS AS REQUIRED.

A LEAD BASED PAINT INSPECTION WAS PERFORMED AND LEAD BASED PAINT WAS FOUND IN THE AREAS INDICATED. LEAD BASED PAINT SHALL NOT BE DISTURBED IN THE WORK EXCEPT WHERE SPECIALLY INDICATED AND REQUIRED FOR CONNECTION TO UTILITIES. WHERE SUCH CONNECTIONS ARE REQUIRED, CONTRACTOR SHALL HAVE THE OBSTRUCTIVE AND ADJACENT LEAD BASED PAINT REMOVED BY A LICENSED LEAD BASED PAINT ABATEMENT CONTRACTOR USING APPROVED PROCEDURES AS REQUIRED BY NIOSH. THE LEAD BASED PAINT THAT REMAINS AND NEW NON LEAD BASED PAINT AREAS SHALL BE LABELED ACCORDINGLY.



PROJECT NO:	620589
DATE:	DECEMBER 11, 2023
REVISIONS	
DATE	DESCRIPTION

**2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2.)**

Name of Project: Alderman and King Hall Renovations - Alderman Hall
 Address: 4716 Alumn Dr. Wilmington, NC Zip Code: 28403
 Owner/Authorized Agent: Moseley Architects Phone # (910) 960 - 2020 E-Mail: brad@mosleyarchitects.com
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City County State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Moseley Architects	Brid Lockwood	14206	(910) 360-0201	lockwood@mosleyarchitects.com
Civil	N/A				
Electrical	Moseley Architects	Brian Wells	040202	(824) 724-7555	bwells@mosleyarchitects.com
Fire Alarm	N/A				
Plumbing	Moseley Architects	Seith Lehman	050937	(910) 840-0091	sllehman@mosleyarchitects.com
Mechanical	Moseley Architects	Seith Lehman	050937	(910) 840-0091	sllehman@mosleyarchitects.com
Sprinkler-Standpipe	N/A				
Structural	Stephen Cooke		035434	(704) 240-3755	scooke@mosleyarchitects.com
Retaining Walls >4' High	N/A				
Other	N/A				

(*Others* should include firms and individuals such as, transit, precast, pre-engineered, interior designers, etc.)

2018 NC CODE FOR: New Construction Addition Renovation
 1st Time Interior Completion
 Shell/Core
 Phased Construction - Shell/Core
 Renovation

2018 NC EXISTING BUILDING CODE: Prescriptive Repair Chapter 14
 Level I Level II Level III
 Alteration: Historic Property Change of Use

CONSTRUCTED: (date) 1960 ORIGINAL OCCUPANCY(S) (Ch. 3): A3
 RENOVATED: (date) 1970 CURRENT OCCUPANCY(S) (Ch. 3): B
RISK CATEGORY (table 1604.5) Current: I II III IV
 Proposed: I II III IV

BASIC BUILDING DATA
 Construction Type: I-A I-B II-A II-B III IV V-A V-B
 (check all that apply)
 Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
 Standpipes: No Yes Class I II III Wet Dry
 Fire District: No Yes (Primary) Flood Hazard Area: No Yes
 Special Inspections Required: No Yes

2018 NC Administrative Code and Policies Appendix B for Building

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ FT)	SUB-TOTAL
6 th Floor				
5 th Floor				
4 th Floor				
3 rd Floor				
2 nd Floor	7,560 sf	0 sf	3,140 SF WORK AREA	10,700 sf
Mezzanine				
1 st Floor	15,062 sf	0 sf	348 SF WORK AREA	15,400 sf
Basement				
TOTAL	22,612 sf		3,140 SF	26,100 SF

ALLOWABLE AREA
Primary Occupancy Classification: SELECT ONE
 Assembly A-1 A-2 A-3 A-4 A-5
 Business
 Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Dehigrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1 Condition I-2 I-3 Condition I-4
 Mercantile R-1 R-2 R-3 R-4
 Residential S-1 Moderate S-2 Low High-piled
 Storage Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous
 Accessory Occupancy Classification: A3 AND S2
 Incidental Uses (Table 509): N/A
 Special Uses (Chapter 4 - List Code Sections) N/A
 Special Provisions (Chapter 5 - List Code Sections) N/A
Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____
 Non-Separated Use (508.3)
 The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
 Separated Use (508.4) -
 See below for area calculations for each story, the area of the occupancy shall be that of the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BUILDING PER STORY (ACTUAL)	(B) TABLE 506.2 ¹ AREA	(C) AREA FOR FRONTAGE INCREASE ^{2,3}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{4,5}
					N/A

¹ Frontage area increases from Section 506.3 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
 b. Total Building Perimeter = _____ (P)
 c. Ratio (F/P) = _____ (F/P)
 d. W = Minimum width of public way = _____ (W)
 e. Percent of frontage increase = 1 + (F/P) x (W/30) = _____ (F%)
² Unlimited area applicable under conditions of Section 506.3
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4
⁵ Frontage increase is based on the untrickered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	N/A		
Building Height in Stories (Table 504.4)	N/A		

¹ Provide code reference if the "Show on Plans" column is blank based on Table 504.3 or 504.4.
² The maximum height of air traffic control towers must comply with Table 412.3.1
³ The maximum height of open parking garages must comply with Table 406.5.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RES?*	RATING (OR PROTECTION REVISIONS)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	0						
Roofing Walls							
Exterior	N/A						
North	N/A						
East	N/A						
West	N/A						
South	N/A						
Interior	N/A						
Nonbearing Walls and Partitions							
Exterior walls							
North	>30'	0	0				
East	>30'	0	0				
West	>30'	0	0				
South	>30'	0	0				
Interior walls and partitions							
Floor Construction	0	0	0				
Includes supporting beams and joists	0	0	0				
Floor Ceiling Assembly	0	0	0				
Column Supporting Floor	0	0	0				
Roof Construction, including supporting beams and joists	0	0	0				
Roof Ceiling Assembly	0	0	0				
Column Supporting Roof	0	0	0				
Shaft Enclosure - Exit	1	1	EXISTING				
Shaft Enclosure - Other	1	1	EXISTING				
Corridor Separation	N/A						
Occupancy Fire Barrier Separation	N/A						
Part-Fire Wall Separation	N/A						
Smoke Barrier Separation	N/A						
Smoke Partition	N/A						
Means Dwelling Unit Sleeping Unit Separation	N/A						
Incidental Use Separation	N/A						

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) BETWEEN PROPERTY LINES	DEGREES OF OPENING PROTECTION (TABLE 705.5)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30'	UNSPRINKLERED	NO LIMIT	NO LIMIT

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LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes
 Exit Signs: No Yes
 Fire Alarm: No Yes
 Smoke Detection Systems: No Yes Partial
 Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # _____
 Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (if not on the site plan)
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (1006.2.1 & 2006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on gross width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier fire partition/smoke barrier.
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

Section/Table/Note	Title

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
							N/A

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 132" ACCESSIBLE	VAN SPACES WITH 8' ACCESSIBLE	
					N/A

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATER CLOSURES	URINALS	LAVATORIES		SHOWERS/TUBS	DRINKING FOUNTAINS					
			MALE	FEMALE							
SPACE	EXIST'G	4	8	0	4	3	7	0	0	0	4
	NEW	4	7	0	3	5	0	0	0	0	4
	REQ'D	4	5	0	0	2	3	0	0	3	2

THE ARE OCCUPANT LOAD OF BUILDING IS NOT INCREASING. CALCULATED NUMBER OF FIXTURES IN CURRENT DESIGN PROVIDED AS NUMBER OF FIXTURES IN BUILDING IS BEING PROVIDED TO ACCOMMODATE SPACES REQUIRED FOR ALL OCCUPANCIES

SPECIAL APPROVALS
 Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPL, DHHS, ICC, etc., describe below)

ENERGY SUMMARY

ENERGY REQUIREMENTS:
 The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation Code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.
 Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)
 Exempt Building: No Yes (Provide Code or Statutory reference: _____)

Climate Zone: 3A 4A 5A

Method of Compliance: Energy Code Performance Prescriptive
 ASHRAE 90.1 Performance Prescriptive
 (If "Other" specify source here: _____)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
 Description of assembly: Existing to Remain
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Skylights in each assembly: _____
 U-Value of skylight: _____
 Total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
 Description of assembly: Existing to Remain
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Openings (windows or doors with glazing): _____
 U-Value of assembly: _____
 Solar heat gain coefficient: 0.25
 Projection factor: 0.05
 Door R-Values: _____

Walls below grade (each assembly)
 Description of assembly: Existing to Remain
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors over unconditioned space (each assembly)
 Description of assembly: Existing to Remain
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors slab on grade (each assembly)
 Description of assembly: Existing to Remain
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Horizontal-R-Value requirement: _____
 Slab Heated: _____

2018 NC Administrative Code and Policies Appendix B for Building

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)**

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.1
 Seismic (I_s) N/A

Live Loads: Roof 20 psf
 Mezzanine 40 psf
 Floor N/A psf

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed N/A mph (ASCE-7)
 Exposure Category _____

SEISMIC DESIGN CATEGORY: A B C D
 Provide the following Seismic Design Parameters:
 Risk Category (Table 1604.5) I II III IV
 Spectral Response Acceleration S_s 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.2 1.5 2.0 2.5 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 12.0 15.0 20.0 25.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100.0
 Site Classification (ASCE 7) B C D E F
 Data Source Presumptive Historical Data
Basic structural system: Bearing Wall Dual w/ Special Moment Frame
 Building Frame Dual w/ Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
 Simplified Equivalent Lateral Force Dynamic
Analysis Procedure: Simplified Yes No
Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind
SOIL BEARING CAPACITIES:
 Field Tests (provide copy of test report) _____ psf
 Presumptive Bearing Capacity _____ psf
 Pile size, type, and capacity _____ psf

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL SUMMARY
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)**

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
 winter dry bulb: 24.2°F
 summer dry bulb: 93.4°F

Interior design conditions
 winter dry bulb: 70°F
 summer dry bulb: 75°F
 relative humidity: 50% RH

Building heating load: 589.9 MBH
Building cooling load: 72.6 Tons

Mechanical Spacing Conditioning System
 Unitary
 description of unit: VAV AHU's with chilled water from campus energy plant and hot water from existing to remain condensing boiler.
 heating efficiency: _____
 cooling efficiency: _____
 size category of unit: _____
 Boiler
 size category: If oversized, state reason: Existing to Remain Boiler
 Chiller
 size category: If oversized, state reason: From Existing to Remain Central Plant

List equipment efficiencies: _____

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)**

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code: Prescriptive Performance
 ASHRAE 90.1: Prescriptive Performance

Lighting schedule (each fixture type) Refer to light fixture schedule
 lamp type required in fixture _____
 number of lamps in fixture _____
 ballast type used in the fixture _____
 total wattage per fixture _____
 total interior wattage specified vs. allowed (whole building or space by space) TBD vs 21805W
 total exterior wattage specified vs. allowed _____

Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
 C406.2 More Efficient Mechanical Equipment
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies Appendix B for Building

MOSELEY ARCHITECTS



ALDERMAN HALL RENOVATION
 UNIVERSITY OF NORTH CAROLINA WILMINGTON
 SCO # 22-24639-01B
 601 College Rd, Wilmington, NC 28403

PROJECT NO:	REVISIONS
620589	
DATE:	DESCRIPTION
DECEMBER 11, 2023	

PROJECT NO: 620589
 DATE: DECEMBER 11, 2023
 REVISIONS
 DATE DESCRIPTION

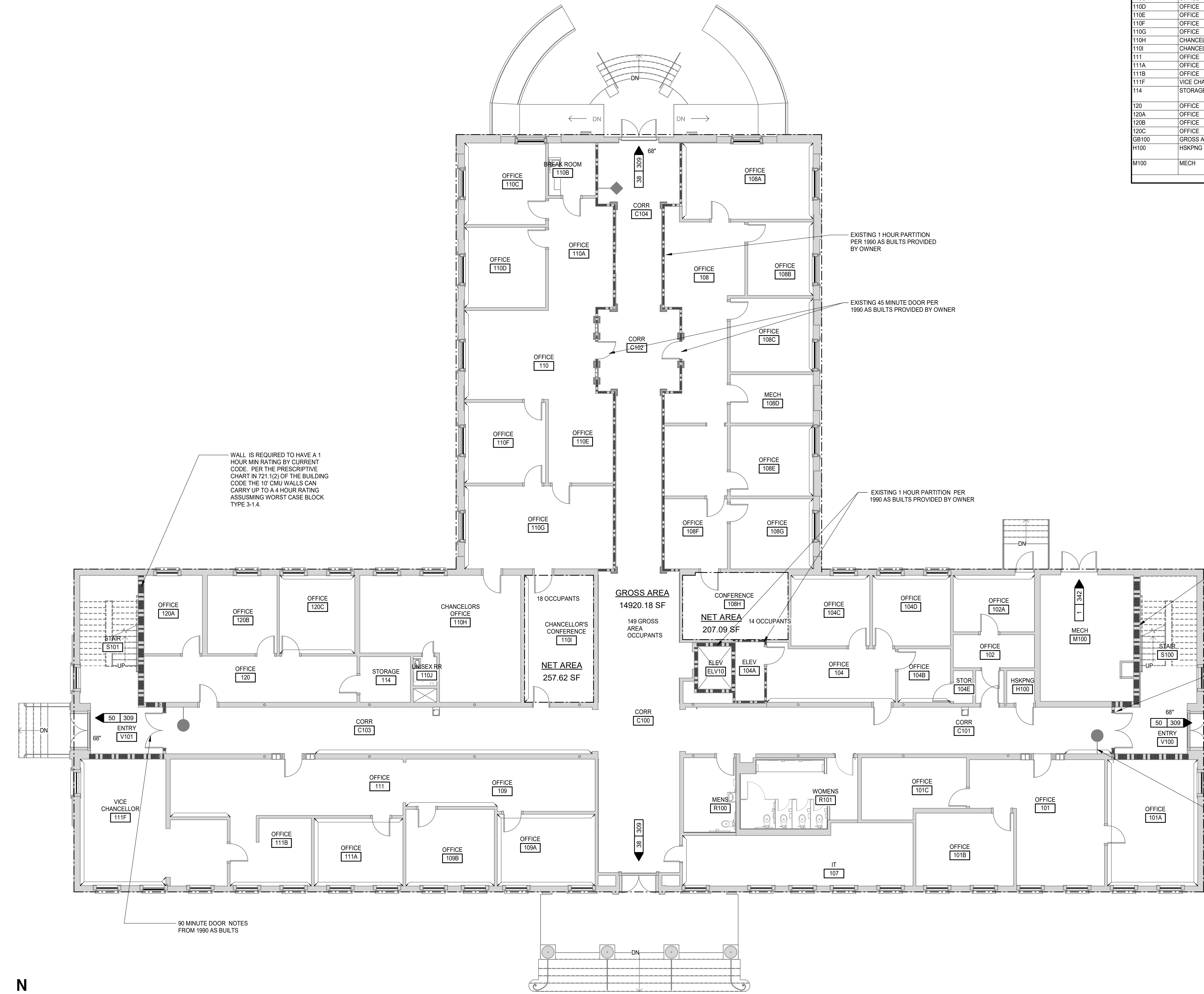
CODE SUMMARY - APPENDIX B

LS1.0

ALDERMAN HALL		WATER CLOSETS						LAVATORIES						BATH TUBS/SHOWERS			DRINKING FOUNTAINS			SERVICE SINKS				
OCCUPANCY	OCC LOAD	MALE			FEMALE			MALE			FEMALE			FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	REQ'D	PROVIDED
		FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED											
A-3 (gym, halls, libraries)	107	125	0.43		65	0.82		200	0.27		200	0.27		0	0.00		500	0.21		1				
B	237	30	1.00		30	1.00		40	2.00		40	2.00					100	2.37		1				
S-1 and S-2	8	100	0.04		100	0.04		100	0.04		(P)411						1000	0.01		1				
NEW TOTAL	352	4	4		4	7		3	3		3	5		0	0		3	4		2		2		

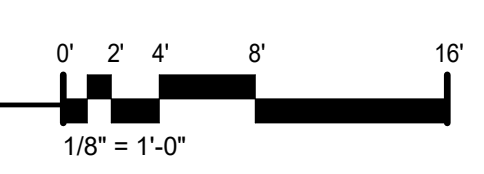
PLUMBING FIXTURE CALCULATIONS

SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	SF	AREA		OCCUPANCY LOAD		DESIGN
						GROSS	NET	TABULAR	ACTUAL	
101	OFFICE	B	BUSINESS AREA	100 SF	394			4		4
101A	OFFICE	B	BUSINESS AREA	100 SF	336			4		4
101B	OFFICE	B	BUSINESS AREA	100 SF	209			3		3
101C	OFFICE	B	BUSINESS AREA	100 SF	174			2		2
102	OFFICE	B	BUSINESS AREA	100 SF	79			1		1
102A	OFFICE	B	BUSINESS AREA	100 SF	135			2		2
104	OFFICE	B	BUSINESS AREA	100 SF	206			3		3
104B	OFFICE	B	BUSINESS AREA	100 SF	83			1		1
104C	OFFICE	B	BUSINESS AREA	100 SF	163			2		2
104D	OFFICE	B	BUSINESS AREA	100 SF	161			2		2
104E	STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	19			1		1
107	IT	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	373			2		2
108	OFFICE	B	BUSINESS AREA	100 SF	506			6		6
108A	OFFICE	B	BUSINESS AREA	100 SF	293			3		3
108B	OFFICE	B	BUSINESS AREA	100 SF	141			2		2
108C	OFFICE	B	BUSINESS AREA	100 SF	179			2		2
108D	MECH	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	118			1		1
108E	OFFICE	B	BUSINESS AREA	100 SF	170			2		2
108F	OFFICE	B	BUSINESS AREA	100 SF	129			2		2
108G	OFFICE	B	BUSINESS AREA	100 SF	171			2		2
108H	CONFERENCE	A3	ASSEMBLY, UNCONCENTRATED	15 SF	207		14			14
109	OFFICE	B	BUSINESS AREA	100 SF	279			3		3
109A	OFFICE	B	BUSINESS AREA	100 SF	207			3		3
109B	OFFICE	B	BUSINESS AREA	100 SF	199			2		2
110	OFFICE	B	BUSINESS AREA	100 SF	334			4		4
110A	OFFICE	B	BUSINESS AREA	100 SF	207			3		3
110B	BREAK ROOM	B	BUSINESS AREA	100 SF	73			1		1
110C	OFFICE	B	BUSINESS AREA	100 SF	194			2		2
110D	OFFICE	B	BUSINESS AREA	100 SF	191			2		2
110E	OFFICE	B	BUSINESS AREA	100 SF	169			2		2
110F	OFFICE	B	BUSINESS AREA	100 SF	192			2		2
110G	OFFICE	B	BUSINESS AREA	100 SF	362			4		4
110H	CHANCELLORS OFFICE	B	BUSINESS AREA	100 SF	465			5		5
110I	CHANCELLORS CONFERENCE	A3	ASSEMBLY, UNCONCENTRATED	15 SF	258		18			18
111	OFFICE	B	BUSINESS AREA	100 SF	443			5		5
111A	OFFICE	B	BUSINESS AREA	100 SF	176			2		2
111B	OFFICE	B	BUSINESS AREA	100 SF	108			2		2
111F	VICE CHANCELLOR	B	BUSINESS AREA	100 SF	436			5		5
114	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	68			1		1
120	OFFICE	B	BUSINESS AREA	100 SF	289			3		3
120A	OFFICE	B	BUSINESS AREA	100 SF	135			2		2
120B	OFFICE	B	BUSINESS AREA	100 SF	160			2		2
120C	OFFICE	B	BUSINESS AREA	100 SF	174			2		2
GB100	GROSS AREA	B	BUSINESS AREA	100 SF	4153			42		42
M100	HSKPNQ	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	26			1		1
M100	MECH	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	340			2		2
										181



DESIGNATOR MATRIX		SYMBOLS	
EXISTING 1 HR FIRE	WALL	BARRIER	PARTITION
			RATED BEARING OR NON-BEARING WALL
NOTES:			
1. WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.			
2. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0, A1 AND, A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.			
3. RATING OF BEARING OR NON-BEARING WALLS ARE PER TABLE 601 AND SECTION 602.1 AND DO NOT REQUIRE PROTECTED OPENINGS.			
			ROOM NUMBER
			DIRECTION OF EGRESS
			EGRESS LOAD CAPACITY
			NUMBER OF OCCUPANTS
			EGRESS LOAD CAPACITY
			MAXIMUM TRAVEL DISTANCE
			COMMON PATH OF TRAVEL
			EXISTING TO REMAIN FIRE EXTINGUISHER CABINET
			EXISTING TO REMAIN FIRE EXTINGUISHER BRACKET
			REINSTALLED FIRE EXTINGUISHER
			EXISTING 1 HOUR HORIZONTAL ASSEMBLY ABOVE, TO REMAIN

LIFE SAFETY PLAN - LEVEL 1
1/8" = 1'-0"



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ALDERMAN HALL RENOVATION
UNIVERSITY OF NORTH CAROLINA WILMINGTON
SCO # 22-24639-01B
601 College Rd, Wilmington, NC 28403

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LIFE SAFETY PLAN - LEVEL 1

LS2.1

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J
I
H
G
F
E
D
C
B
A

OCCUPANCY SCHEDULE LEVEL 2

SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA		AREA		OCCUPANCY LOAD	
				PER OCCUPANT	SF	GROSS	NET	TABULAR	ACTUAL
211	CONFERENCE ROOM	A3	ASSEMBLY, UNCONCENTRATED	15 SF	423	•	•	29	29
215	BOARD ROOM	A3	ASSEMBLY, UNCONCENTRATED	15 SF	676	•	•	46	46
200	HOUSE KEEPING	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	65	•	•	1	1
201	OFFICE	B	BUSINESS AREA	100 SF	384	•	•	4	4
201A	OFFICE	B	BUSINESS AREA	100 SF	123	•	•	2	2
201B	OFFICE	B	BUSINESS AREA	100 SF	159	•	•	2	2
201C	OFFICE	B	BUSINESS AREA	100 SF	99	•	•	1	1
201D	OFFICE	B	BUSINESS AREA	100 SF	96	•	•	1	1
202	ADMIN SHARED SPACE	B	BUSINESS AREA	100 SF	380	•	•	4	4
202A	STORAGE	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	97	•	•	1	1
202B	OFFICE	B	BUSINESS AREA	100 SF	159	•	•	2	2
202C	OFFICE	B	BUSINESS AREA	100 SF	108	•	•	2	2
202D	OFFICE	B	BUSINESS AREA	100 SF	165	•	•	2	2
202E	OFFICE	B	BUSINESS AREA	100 SF	162	•	•	2	2
203	OFFICE	B	BUSINESS AREA	100 SF	239	•	•	3	3
203A	OFFICE	B	BUSINESS AREA	100 SF	140	•	•	2	2
203B	OFFICE	B	BUSINESS AREA	100 SF	96	•	•	1	1
204	DATA	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	92	•	•	1	1
205	SOFT SEAT	B	ASSEMBLY, UNCONCENTRATED	15 SF	66	•	•	5	5
206	COMBINED BREAK/ PRINTING/ MEETING	B	BUSINESS AREA	100 SF	138	•	•	2	2
207	OFFICE	B	BUSINESS AREA	100 SF	213	•	•	3	3
207A	OFFICE	B	BUSINESS AREA	100 SF	146	•	•	2	2
207B	OFFICE	B	BUSINESS AREA	100 SF	195	•	•	2	2
207C	OFFICE	B	BUSINESS AREA	100 SF	198	•	•	2	2
207D	OFFICE	B	BUSINESS AREA	100 SF	175	•	•	2	2
207E	BREAK	B	BUSINESS AREA	100 SF	39	•	•	1	1
208	OFFICE	B	BUSINESS AREA	100 SF	478	•	•	5	5
208A	VC OFFICE	B	BUSINESS AREA	100 SF	338	•	•	4	4
208B	OFFICE	B	BUSINESS AREA	100 SF	190	•	•	2	2
208C	OFFICE	B	BUSINESS AREA	100 SF	181	•	•	2	2
208D	OFFICE	B	BUSINESS AREAS	150 SF	177	•	•	2	2
208E	HVAC	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	94	•	•	1	1
217	OFFICE	B	BUSINESS AREA	100 SF	149	•	•	2	2
217A	OFFICE	B	BUSINESS AREA	100 SF	176	•	•	2	2
217B	OFFICE	B	BUSINESS AREA	100 SF	191	•	•	2	2
217C	OFFICE	B	BUSINESS AREA	100 SF	115	•	•	2	2
217D	CLOSET	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	28	•	•	1	1
GB200	GROSS AREA	B	BUSINESS AREA	100 SF	2050	•	•	21	21
									171

PER THE PRESCRIPTIVE CHART IN 721.1(2) 5-1/4" CMU WALLS CAN CARRY UP TO A 4 HOUR RATING. ONE HOUR IS INDICATED AS THAT RATING IS WHAT IS REQUIRED BY CURRENT CODE.

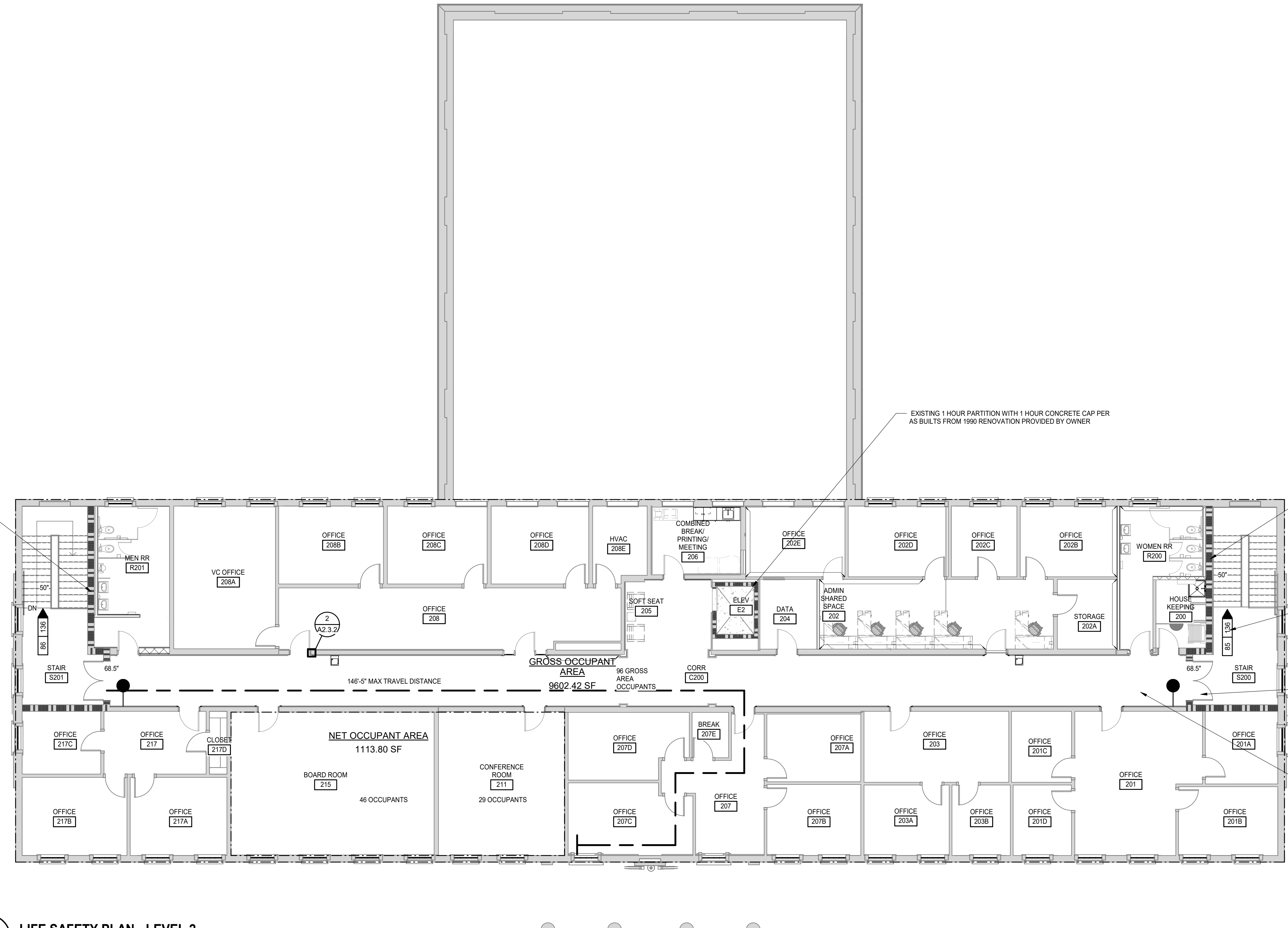
EXISTING 1 HOUR PARTITION WITH 1 HOUR CONCRETE CAP PER AS BUILTS FROM 1990 RENOVATION PROVIDED BY OWNER

PER THE PRESCRIPTIVE CHART IN 721.1(2) 5-1/4" CMU WALLS CAN CARRY UP TO A 4 HOUR RATING. ONE HOUR IS INDICATED AS THAT RATING IS WHAT IS REQUIRED BY CURRENT CODE.

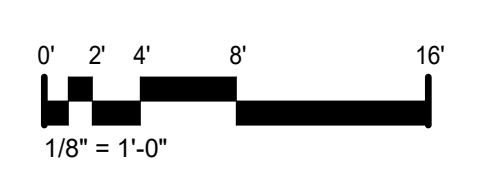
PER 805.2.1 STAIR IS MOST RESTRICTIVE ON EGRESS LOAD. 60 PEOPLE PER 22' IN UNSPRINKLERED BUSINESS BUILDING. (507/22')= 2.27 2.27X60 PEOPLE= 136 PERSON OCCUPANT LOAD ON THE EXISTING ROUTES OF EGRESS

EXISTING 90 MINUTE DOOR PER ORIGINAL DOCUMENTS; REPLACED IN 1990 RENOVATION.

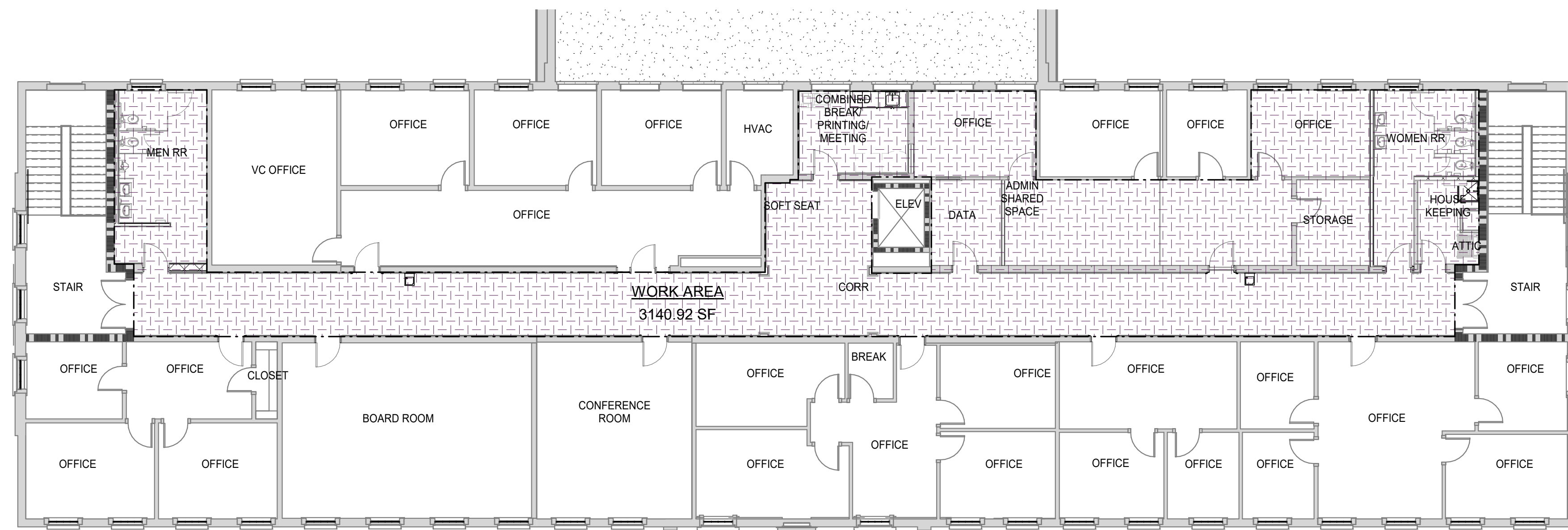
60" EGRESS WIDTH OF CORRIDOR. PER TABLE 805.2.1 WHERE THERE ARE 100 OCCUPANTS PER 22' OF EGRESS WIDTH CORRIDOR HAS AN EGRESS CAPACITY OF 327 PEOPLE



LIFE SAFETY PLAN - LEVEL 2
1/8" = 1'-0"



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N
 WORK AREA PLAN - LEVEL 2
 3/32" = 1'-0"



N
 WORK AREA PLAN - LEVEL 1
 3/32" = 1'-0"

WORK AREA LEGEND AND CALCS	
WORK AREA	
WORK AREA - LEVEL 1	348 SF
WORK AREA - LEVEL 2	3,140 SF
TOTAL WORK AREA	3,488 SF
BUILDING AREA	26,101 SF
50% OF 26101 SF = 13,050.5 SF; 3,488 SF < 13,050.5 SF	
ALL WORK NOT INDICATED IN WORK AREA IS DEFINED AS A REPAIR/REPLACEMENT OF EQUIPMENT OR MEETS THE DEFINITION OF LEVEL 1 ALTERATION/RENOVATION AND IS NOT CONSIDERED TO BE PART OF THE WORK AREA PER NCEBC 2018.	

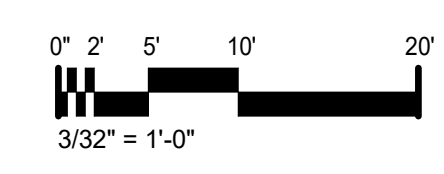
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WORK AREA DIAGRAMS



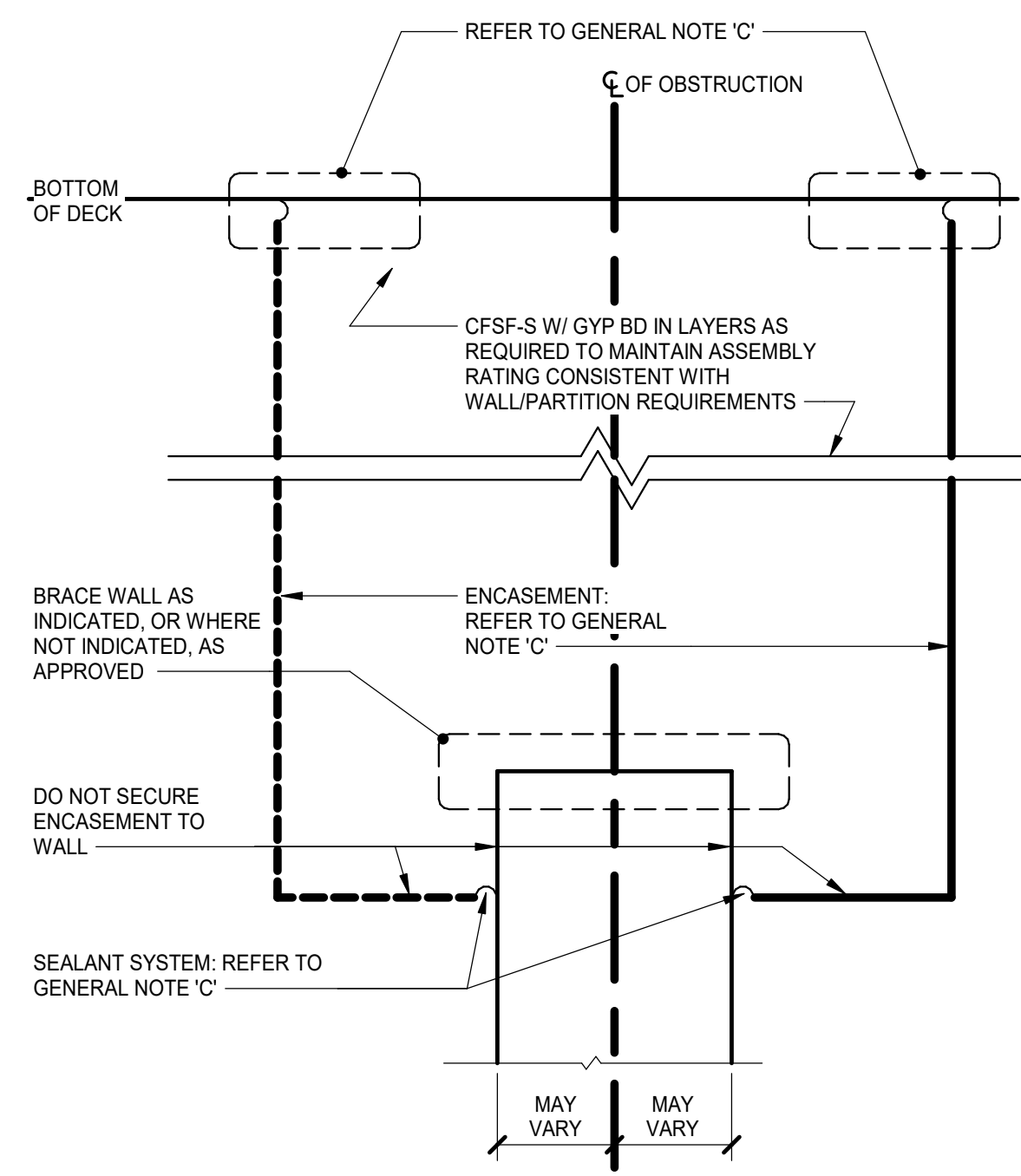
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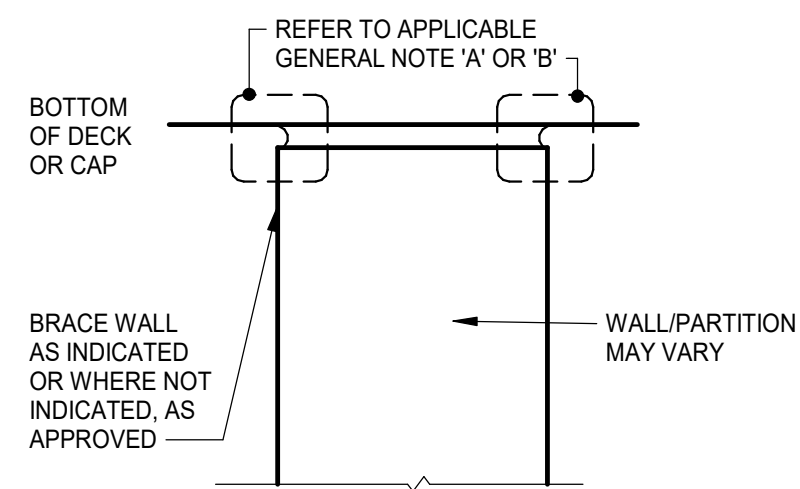
TERMINATION GENERAL NOTES

- A. AT FIRE, SMOKE, AND ACOUSTICALLY RATED WALLS: SEAL ALL NON-OBTSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G. CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS. BRACE WALL AS INDICATED OR REQUIRED.
- B. AT ALL OTHER WALLS INDICATED TO EXTEND TO UNDERSIDE OF FLOOR/ROOF DECK/CAP: SEAL ALL NON-OBTSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G. CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS. BRACE WALL AS INDICATED OR REQUIRED.
- C. AT ALL WALLS PREVENTED FROM TERMINATING AT THE UNDERSIDE OF FLOOR/ROOF DECK BY OBSTRUCTIONS, COMPLY WITH THE FOLLOWING:
 - AT FIRE, SMOKE, AND ACOUSTICALLY RATED WALLS: ENCASE OBSTRUCTION(S) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.
 - AT SECURITY WALLS: TERMINATE IN ACCORDANCE WITH SECURITY PARTITION REQUIREMENTS.
 - AT OTHER WALLS: ENCASE OBSTRUCTION(S) ON ONE SIDE.
 - SEAL ENCASMENT TO WALL AND SEAL ENCASMENT TO DECK IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.

TERMINATIONS



HEAD-OF-WALL TERMINATION @ OBSTRUCTION
OBSTRUCTION MAY VARY (BEAM, JOIST, GIRDER, CHANNEL, DUCTWORK, PIPING)

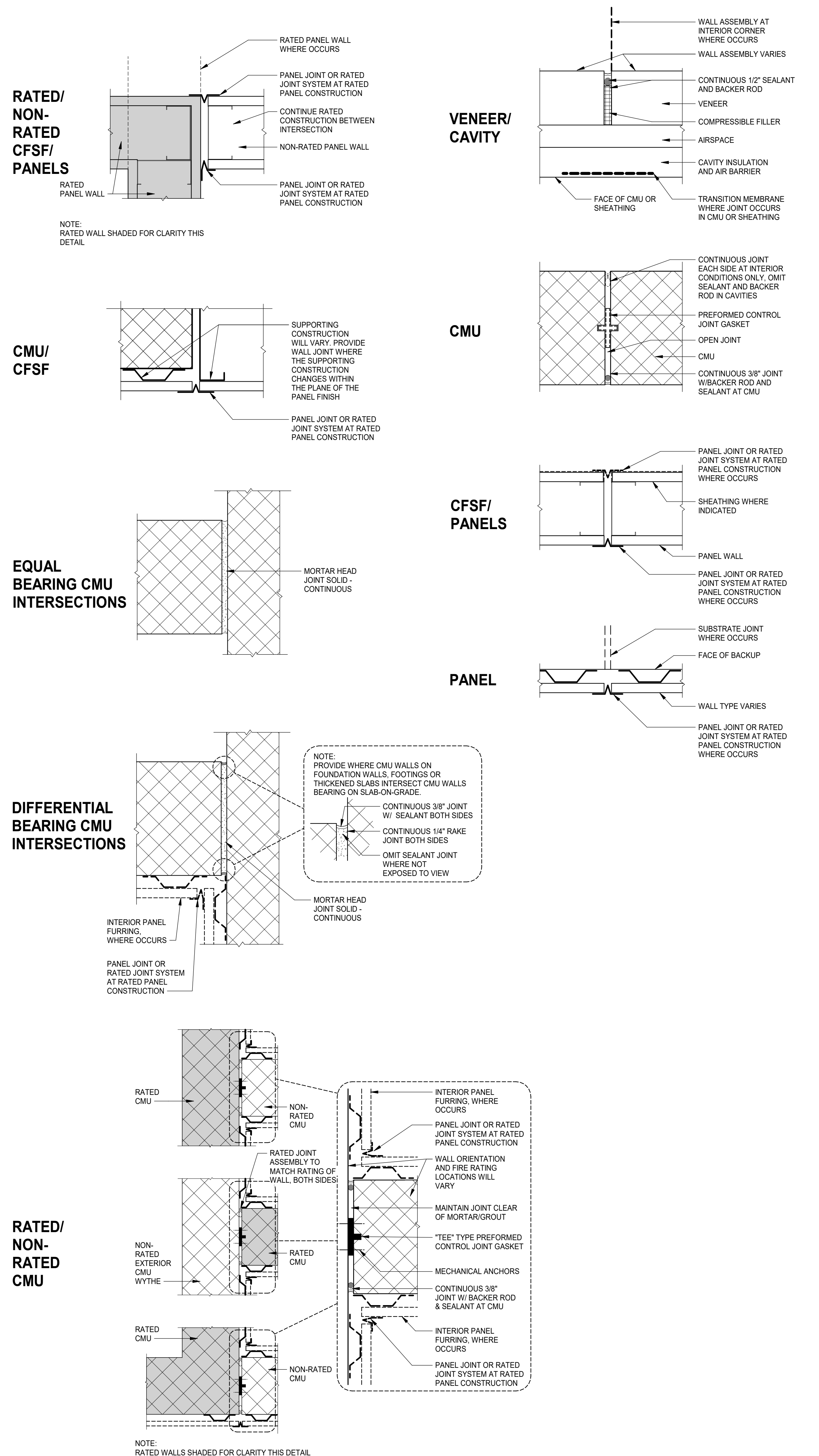


HEAD-OF-WALL TERMINATION @ NON-OBTSTRUCTION

WALL JOINT GENERAL NOTES

- A. LOCATE CONTROL JOINTS IN INTERIOR AND EXTERIOR WALLS AS INDICATED ON DRAWINGS.
- B. JOINTS ARE INDICATED THIS ON PLANS AND ELEVATIONS.
- C. WALLS AND JOINT TYPES/DETAILS ARE DIAGRAMMATIC. ADJUST JOINT TYPES/DETAILS IN ACCORDANCE WITH ACTUAL FIELD CONDITIONS.
- D. PROVIDE TESTED JOINT ASSEMBLIES AT FIRE, SMOKE, AND ACOUSTICAL-RATED WALLS.
- E. WHEN USED HEREIN "RATED" MEANS FIRE, SMOKE, AND/OR ACOUSTICAL.
- F. REFER TO SPECIFICATIONS FOR ADDITIONAL WALL JOINT REQUIREMENTS.

WALL JOINTS



WALL/PARTITION TYPE GENERAL NOTES

- A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR SUCH AS CERAMIC TILE DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.
- B. EXTEND WALL/PARTITION ASSEMBLY COMPONENTS FULL HEIGHT OF ASSEMBLY.
- C. ALL INTERIOR MASONRY UNIT PARTITIONS: M1 UNLESS INDICATED OTHERWISE.
- D. ALL INTERIOR CFSF PANEL PARTITIONS: P1 UNLESS INDICATED OTHERWISE.
- E. REFER TO STRUCTURAL DRAWINGS AND RELATED SPECIFICATIONS FOR SOLID MASONRY, GROUTING, AND REINFORCEMENT REQUIREMENTS INCLUDING BUT NOT BE LIMITED TO:
 - MASONRY WALLS/PARTITIONS
 - LINTELS
 - LINTEL BEARING CONDITIONS
 - BOND BEAMS
 - SHELF BEARING CONDITIONS
 - STRUCTURAL REINFORCING REQUIREMENTS
 - CHANGES IN WYTHE
- F. THE TERMS "WALL" AND "PARTITION" MAY BE USED INTERCHANGEABLY THROUGHOUT THE CONTRACT DOCUMENTS.
- G. EXTEND ALL FIRE, SMOKE, INCIDENTAL USE, AND ACOUSTICAL-RATED WALLS/PARTITIONS TO UNDERSIDE OF FLOOR DECK, ROOF DECK, STRUCTURAL ELEMENT ENCASMENT OR SOLID CAP ABOVE.
 - SEAL AND TERMINATE IN ACCORDANCE WITH JOINT SYSTEM TESTED ASSEMBLIES FOR RESPECTIVE TYPE OF WALLS/PARTITIONS.
- H. PARTITIONS THAT DO NOT EXTEND TO UNDERSIDE OF DECK OR CAP ABOVE:
 - EXTEND 4 INCHES MINIMUM ABOVE HIGHEST ADJACENT FINISH CEILING UNLESS INDICATED OTHERWISE.
- I. DO NOT CONNECT TIES, ANCHORS, OR REINFORCING TO SINGLE CANTILEVERED FIRE WALL OR BETWEEN DOUBLE FIRE WALLS.
- J. SEAL AROUND ALL PENETRATIONS.
- K. COMPLY WITH TERMINATION, WALL JOINT, AND MISCELLANEOUS DETAILS FOR THOSE CONDITIONS WHERE APPLICABLE. COMPLY WITH REFERENCED STANDARDS WHERE DETAILS ARE NOT IDENTIFIED IN THE DRAWINGS.
- L. WALL/PARTITION TYPES DO NOT ADDRESS WALL FINISHES. REFER TO FINISH SCHEDULE.
- M. FINISHED SPACES: PROVIDE CHASES AROUND ALL EXPOSED VERTICAL COMPONENTS, INCLUDING BUT NOT LIMITED TO: DUCTWORK, PIPING, AND CONDUIT. UNLESS COMPONENTS ARE SPECIFICALLY INDICATED TO REMAIN EXPOSED. IF NOT OTHERWISE INDICATED, PROVIDE P2 CHASE CONSTRUCTION.
 - HOLD CHASES TIGHT TO COMPONENTS ALLOWING FOR ACCESS, INSULATION, AND TOLERANCES.
 - EXTEND CHASES FROM FLOOR TO 4 INCHES MINIMUM ABOVE FINISH CEILING OR IF NO CEILING IS INDICATED, EXTEND CHASES TO UNDERSIDE OF FLOOR DECK, ROOF DECK, OR SOLID CAP ABOVE AND TERMINATE ACCORDINGLY.
- N. PROVIDE BACKER BOARD/UNIT OF SAME THICKNESS INDICATED IN LIEU OF GYPSUM BOARD PANEL AT PORTIONS OF WALLS/PARTITIONS TO RECEIVE TILE.

MASONRY UNIT WALL/PARTITION TYPES

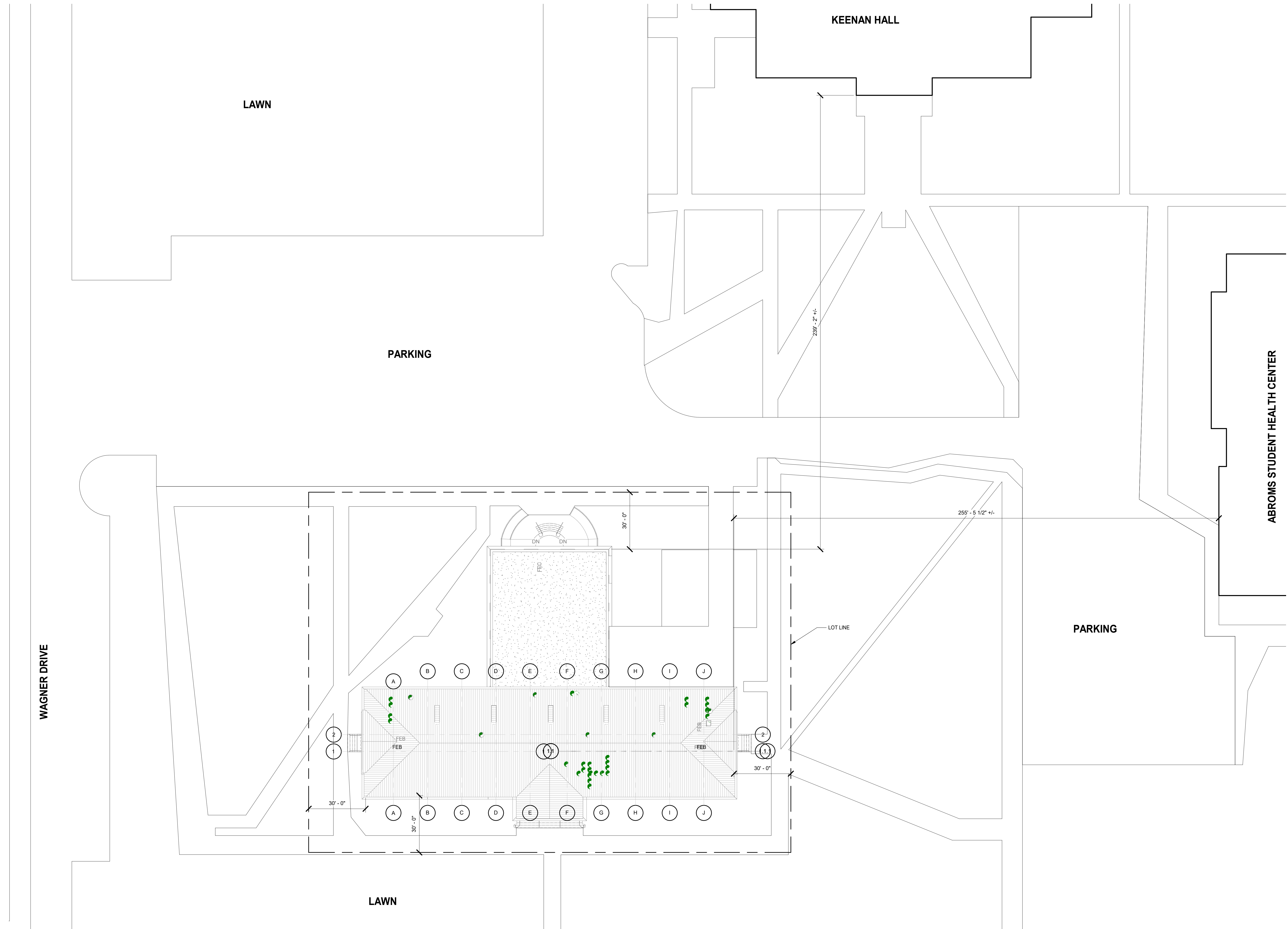
MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
M1	-	-	
M2	-	-	
M3	-	-	

PANEL WALL/PARTITION TYPES

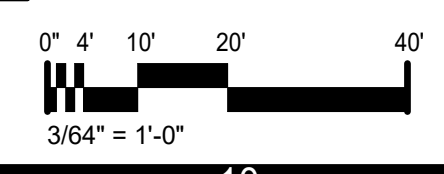
MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
P1	-	-	
P2	-	-	
P3	-	-	
P4	-	-	
P5	-	ALTERNATE 1 ONLY	
P6	-	-	
P7	-	PATCH FOR EXISTING CONSTRUCTION VERIFY IN FIELD	
P8	-	-	
P9	-	-	



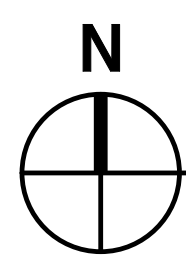
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SITE PLAN
 3/164" = 1'-0"

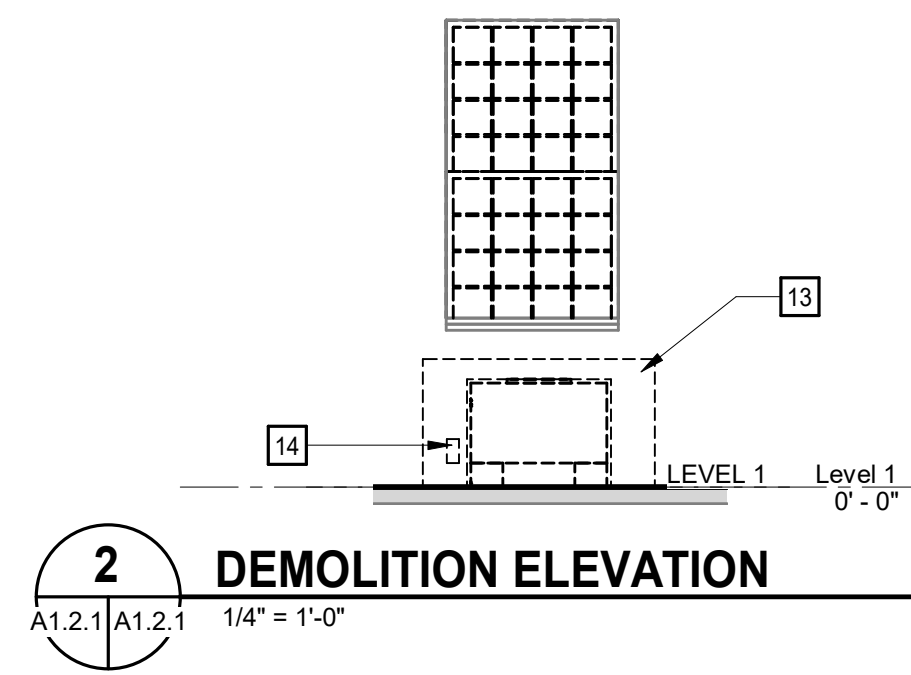


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DEMOLITION PLAN - LEVEL 1
1/8" = 1'-0"

2 DEMOLITION ELEVATION
A1.2.1 A1.2.1 1/4" = 1'-0"

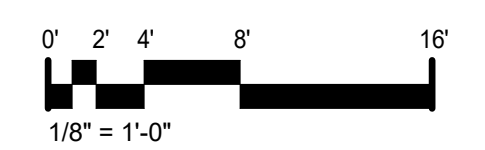


ARCHITECTURAL ALTERNATES	
ALTERNATES	
1.	RECOAT LOW SLOPE ROOF
2.	ELEVATOR MODERNIZATION

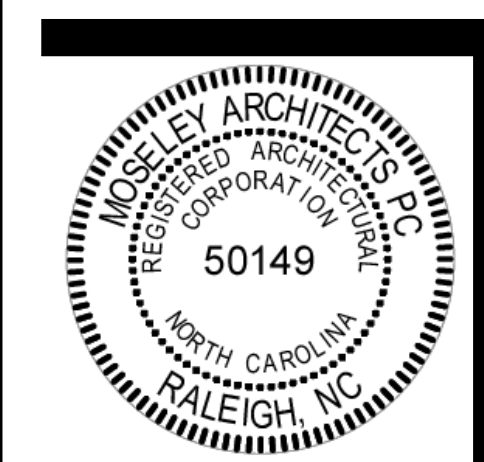
DEMOLITION PLAN LEGEND	
APPLIES TO DRAWINGS A1.2.1 - A1.2.3	
	EXISTING PARTITION/WALL/ITEM TO REMAIN
	REMOVE EXISTING PARTITION/WALL/ITEM
	REMOVE EXISTING WINDOW FRAME TO REMAIN
	UNLESS NOTED OTHERWISE, REMOVE EXISTING DOOR AND FRAME ASSEMBLY, INCLUDING DOOR HARDWARE, ANCHORS, AND THRESHOLDS (WHERE OCCURS).
	REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
	EXISTING CEILING ABOVE TO REMAIN

DEMOLITION PLAN GENERAL NOTES	
A.	ALL DEMOLITION WORK INDICATED IN THESE DRAWINGS INVOLVE REMOVAL OF EXISTING CONSTRUCTION UNDER THIS CONTRACT AND SHALL BE COORDINATED WITH CORRESPONDING PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.
B.	REMOVE EXISTING CONSTRUCTION AS INDICATED. DEMOLITION SHALL BE TO THE LEAST EXTENT POSSIBLE IN ORDER TO COMPLETE THE WORK. DO NOT PERFORM DEMOLITION BEYOND THE SCOPE OF CONSTRUCTION. FLOOR SLABS UNDER FLOORING REMOVED SHALL BE CLEAN OF ADHESIVES AND CHEMICAL RESIDUE.
C.	FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS. COORDINATE THE SCOPE, DIMENSIONS, AND EXTENT OF THE DEMOLITION WORK TO BE PERFORMED WITH THE WORK.
D.	PLAN DIMENSIONS FOR EXISTING CONDITIONS ARE TO FACE OF FINISH OR CENTERLINE OF STRUCTURAL FRAMING, UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE.
E.	DAMAGE OCCURRING DURING SCOPE OF WORK SHALL BE PATCHED, REPAIRED, AND FINISHED TO MATCH ADJACENT SIMILAR CONDITIONS.
F.	ACTUAL FIELD CONDITIONS WHICH ARE CONCEALED BY EXISTING CONSTRUCTION MAY VARY FROM THOSE INDICATED ON THE DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
G.	ALL VOICE, DATA, AND CATV CABLING MUST BE DEMOLISHED BY THE CERTIFIED VOICE AND DATA CONTRACTOR FOR THE SYSTMIX COMMSCOPE SOLUTION.
H.	FIRE EXTINGUISHERS TO REMAIN IN CURRENT LOCATIONS. ANY EXTINGUISHERS THAT NEED TO BE REMOVED TO PERFORM THE WORK CONTRACTOR IS TO CONTACT EHS AT UNCW TO COORDINATE STORAGE.
I.	REMOVE CEILINGS UNLESS NOTED OTHERWISE
J.	REMOVE ALL WINDOWS. INTERIOR AND EXTERIOR WOOD TRIM TO REMAIN.
K.	REMOVE WINDOW VALANCES. DOCUMENT VALANCE LOCATION. STORE AND REINSTALL VALANCES AT ORIGINAL LOCATION.

DEMOLITION PLAN KEYNOTES	
REPRESENTED BY	
APPLIES TO DRAWINGS A1.2.1 - A1.2.n	
1	REMOVE WALL TILE, FLOOR TILE, AND CEILING
2	REMOVE FLOORING AND WALL PAPER
4	REMOVE FLOORING AND CEILING
5	REMOVE CEILING
6	REMOVE RAILING. COORDINATE OPENING SIZE WITH FINAL MECHANICAL EQUIPMENT SELECTION
7	REMOVE AND REINSTALL FIRE EXTINGUISHER
8	REMOVE AND REINSTALL WATER COOLER
9	REMOVE DOOR PANEL AND HARDWARE. EXISTING FRAME AND TRIM TO REMAIN
10	REMOVE CARPET AS REQUIRED TO PATCH WITH MATCHING CARPET
11	REMOVE 1" STRIP OF CARPET
12	REMOVE CARPET AT FLOOR LEVELS AND LANDINGS. EXISTING TREADS TO REMAIN
13	REMOVE CARPET
14	REMOVE WOOD TRIM
15	PROTECT ARCHWAYS TO REMAIN



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DEMOLITION PLAN LEGEND

APPLIES TO DRAWINGS A1.2.1 - A1.2.3

- EXISTING PARTITION WALL/ITEM TO REMAIN
- REMOVE EXISTING PARTITION/WALL/ITEM
- REMOVE EXISTING WINDOW FRAME TO REMAIN
- UNLESS NOTED OTHERWISE, REMOVE EXISTING DOOR AND FRAME ASSEMBLY, INCLUDING DOOR HARDWARE, ANCHORS, AND THRESHOLD (WHERE OCCURS).
- REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- EXISTING CEILING ABOVE TO REMAIN

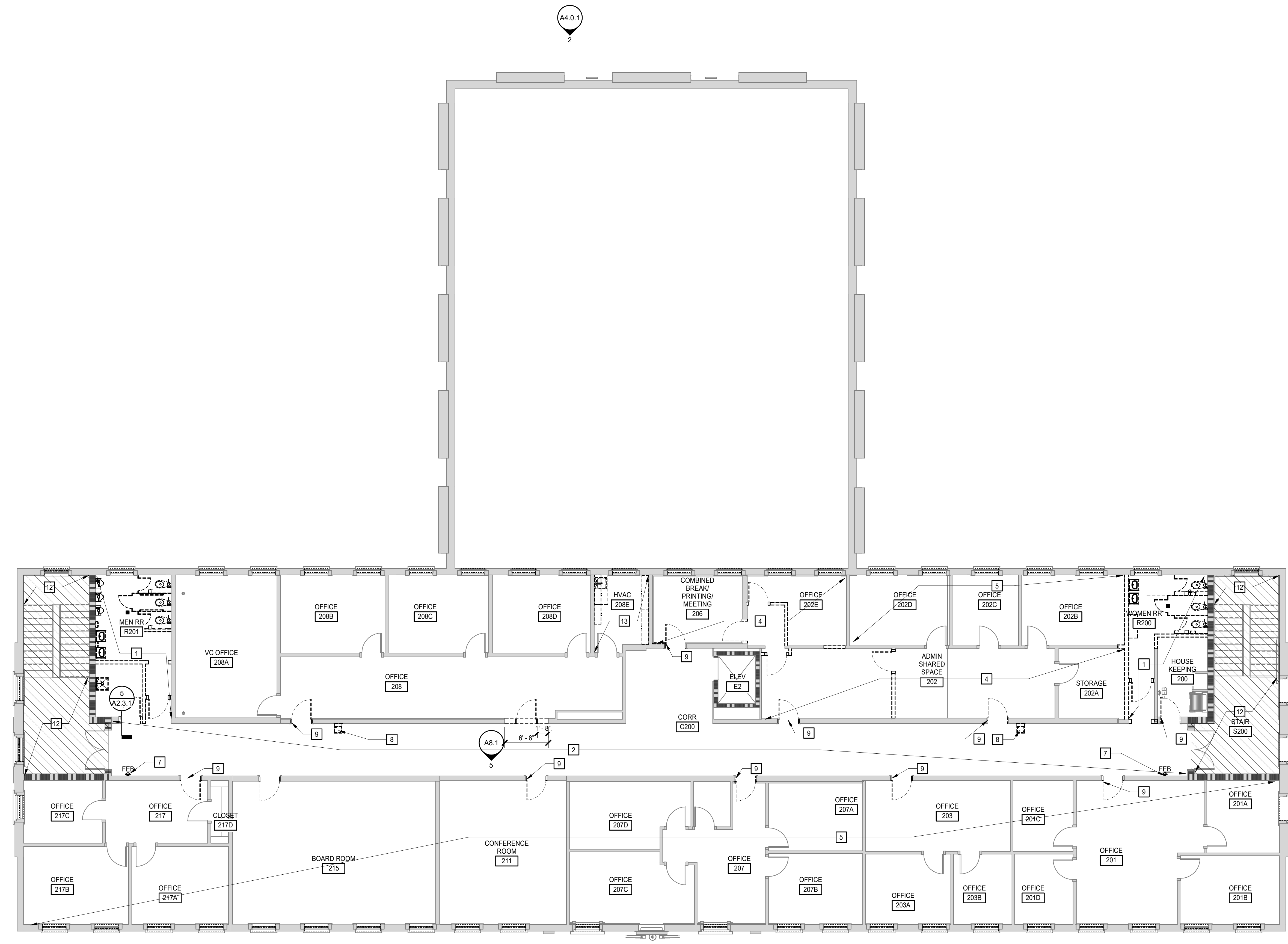
DEMOLITION PLAN GENERAL NOTES

- ALL DEMOLITION WORK INDICATED IN THESE DRAWINGS INVOLVE REMOVAL OF EXISTING CONSTRUCTION UNDER THIS CONTRACT AND SHALL BE COORDINATED WITH CORRESPONDING PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.
- REMOVE EXISTING CONSTRUCTION AS INDICATED. DEMOLITION SHALL BE TO THE LEAST EXTENT POSSIBLE IN ORDER TO COMPLETE THE WORK. DO NOT PERFORM DEMOLITION BEYOND THE SCOPE OF CONSTRUCTION. FLOOR SLABS UNDER FLOORING REMOVED SHALL BE CLEAN OF ADHESIVES AND CHEMICAL RESIDUE.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS. COORDINATE THE SCOPE, DIMENSIONS, AND EXTENT OF THE DEMOLITION WORK TO BE PERFORMED WITH THE WORK.
- PLAN DIMENSIONS FOR EXISTING CONDITIONS ARE TO FACE OF FINISH OR CENTERLINE OF STRUCTURAL FRAMING, UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE.
- DAMAGE OCCURRING DURING SCOPE OF WORK SHALL BE PATCHED, REPAIRED, AND FINISHED TO MATCH ADJACENT SIMILAR CONDITIONS.
- ACTUAL FIELD CONDITIONS WHICH ARE CONCEALED BY EXISTING CONSTRUCTION MAY VARY FROM THOSE INDICATED ON THE DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- ALL VOICE, DATA, AND CATV CABLING MUST BE DEMOLISHED BY THE CERTIFIED VOICE AND DATA CONTRACTOR FOR THE SYSTIMAX COMMSCOPE SOLUTION.
- FIRE EXTINGUISHERS TO REMAIN IN CURRENT LOCATIONS. ANY EXTINGUISHERS THAT NEED TO BE REMOVED TO PERFORM THE WORK CONTRACTOR IS TO CONTACT EHS AT UNCW TO COORDINATE STORAGE.
- REMOVE CEILINGS UNLESS NOTED OTHERWISE.
- REMOVE ALL WINDOWS. INTERIOR AND EXTERIOR WOOD TRIM TO REMAIN.
- REMOVE WINDOW VALANCES. DOCUMENT VALANCE LOCATION. STORE AND REINSTALL VALANCES AT ORIGINAL LOCATION.

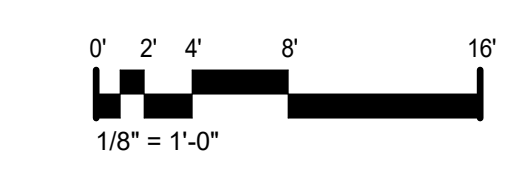
DEMOLITION PLAN KEYNOTES

REPRESENTED BY [n]
 APPLIES TO DRAWINGS A1.2.1 - A1.2.m

- REMOVE WALL TILE, FLOOR TILE, AND CEILING
- REMOVE FLOORING AND WALL PAPER
- REMOVE FLOORING AND CEILING
- REMOVE CEILING
- REMOVE RAILING, COORDINATE OPENING SIZE WITH FINAL MECHANICAL EQUIPMENT SELECTION
- REMOVE AND REINSTALL FIRE EXTINGUISHER
- REMOVE AND REINSTALL WATER COOLER
- REMOVE DOOR PANEL AND HARDWARE; EXISTING FRAME AND TRIM TO REMAIN
- REMOVE CARPET AS REQUIRED TO PATCH WITH MATCHING CARPET
- REMOVE 1" STRIP OF CARPET
- REMOVE CARPET AT FLOOR LEVELS AND LANDINGS; EXISTING TREADS TO REMAIN
- REMOVE CARPET
- REMOVE WOOD TRIM
- PROTECT ARCHWAYS TO REMAIN



DEMOLITION PLAN - LEVEL 2
 1/8" = 1'-0"



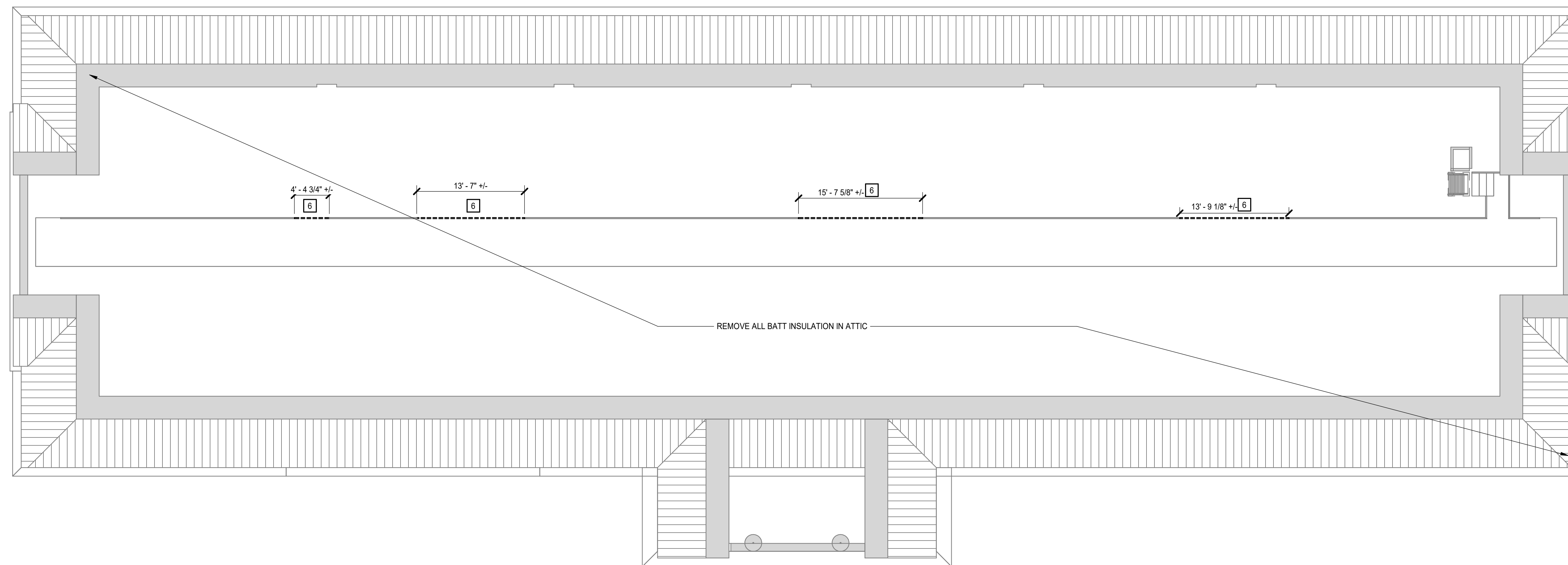
ALDERMAN HALL RENOVATION
 UNIVERSITY OF NORTH CAROLINA WILMINGTON
 SCO # 22-24639-01B
 601 College Rd, Wilmington, NC 28403

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DEMOLITION PLAN - LEVEL 2

A1.2.2

DEMOLITION PLAN - ATTIC
1/8" = 1'-0"



3 (A4.0.1)

DEMOLITION PLAN LEGEND

APPLIES TO DRAWINGS A1.2.1 - A1.2.3

- EXISTING PARTITION/ WALL/ ITEM TO REMAIN
- REMOVE EXISTING PARTITION/WALL/ITEM
- REMOVE EXISTING WINDOW FRAME TO REMAIN
- UNLESS NOTED OTHERWISE, REMOVE EXISTING DOOR AND FRAME ASSEMBLY, INCLUDING DOOR HARDWARE, ANCHORS, AND THRESHOLD (WHERE OCCURS).
- REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- EXISTING CEILING ABOVE TO REMAIN

DEMOLITION PLAN GENERAL NOTES

- A. ALL DEMOLITION WORK INDICATED IN THESE DRAWINGS INVOLVE REMOVAL OF EXISTING CONSTRUCTION UNDER THIS CONTRACT AND SHALL BE COORDINATED WITH CORRESPONDING PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.
- B. REMOVE EXISTING CONSTRUCTION AS INDICATED. DEMOLITION SHALL BE TO THE LEAST EXTENT POSSIBLE IN ORDER TO COMPLETE THE WORK. DO NOT PERFORM DEMOLITION BEYOND THE SCOPE OF CONSTRUCTION. FLOOR SLABS UNDER FLOORING REMOVED SHALL BE CLEAN OF ADHESIVES AND CHEMICAL RESIDUE.
- C. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS. COORDINATE THE SCOPE, DIMENSIONS, AND EXTENT OF THE DEMOLITION WORK TO BE PERFORMED WITH THE WORK.
- D. PLAN DIMENSIONS FOR EXISTING CONDITIONS ARE TO FACE OF FINISH OR CENTERLINE OF STRUCTURAL FRAMING, UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE.
- E. DAMAGE OCCURRING DURING SCOPE OF WORK SHALL BE PATCHED, REPAIRED, AND FINISHED TO MATCH ADJACENT SIMILAR CONDITIONS.
- F. ACTUAL FIELD CONDITIONS WHICH ARE CONCEALED BY EXISTING CONSTRUCTION MAY VARY FROM THOSE INDICATED ON THE DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- G. ALL VOICE, DATA, AND CATV CABLING MUST BE DEMOLISHED BY THE CERTIFIED VOICE AND DATA CONTRACTOR FOR THE SYSTEMAX COMMSCOPE SOLUTION.
- H. FIRE EXTINGUISHERS TO REMAIN IN CURRENT LOCATIONS. ANY EXTINGUISHERS THAT NEED TO BE REMOVED TO PERFORM THE WORK CONTRACTOR IS TO CONTACT EH&S AT UNCW TO COORDINATE STORAGE.
- I. REMOVE CEILINGS UNLESS NOTED OTHERWISE
- J. REMOVE ALL WINDOWS. INTERIOR AND EXTERIOR WOOD TRIM TO REMAIN.
- K. REMOVE WINDOW VALANCES. DOCUMENT VALANCE LOCATION. STORE AND REINSTALL VALANCES AT ORIGINAL LOCATION.

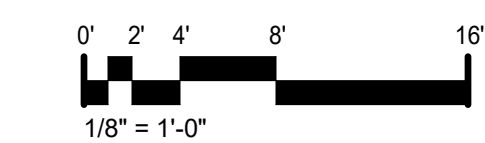
DEMOLITION PLAN KEYNOTES

REPRESENTED BY [A] APPLIES TO DRAWINGS A1.2.1 - A1.2.n

- 1 REMOVE WALL TILE, FLOOR TILE, AND CEILING
- 2 REMOVE FLOORING AND WALL PAPER
- 4 REMOVE FLOORING AND CEILING
- 5 REMOVE CEILING
- 6 REMOVE RAILING. COORDINATE OPENING SIZE WITH FINAL MECHANICAL EQUIPMENT SELECTION
- 7 REMOVE AND REINSTALL FIRE EXTINGUISHER
- 8 REMOVE AND REINSTALL WATER COOLER
- 9 REMOVE DOOR PANEL AND HARDWARE; EXISTING FRAME AND TRIM TO REMAIN
- 10 REMOVE CARPET AS REQUIRED TO PATCH WITH MATCHING CARPET
- 11 REMOVE 1' STRIP OF CARPET
- 12 REMOVE CARPET AT FLOOR LEVELS AND LANDINGS; EXISTING TREADS TO REMAIN
- 13 REMOVE CARPET
- 14 REMOVE WOOD TRIM
- 15 PROTECT ARCHWAYS TO REMAIN



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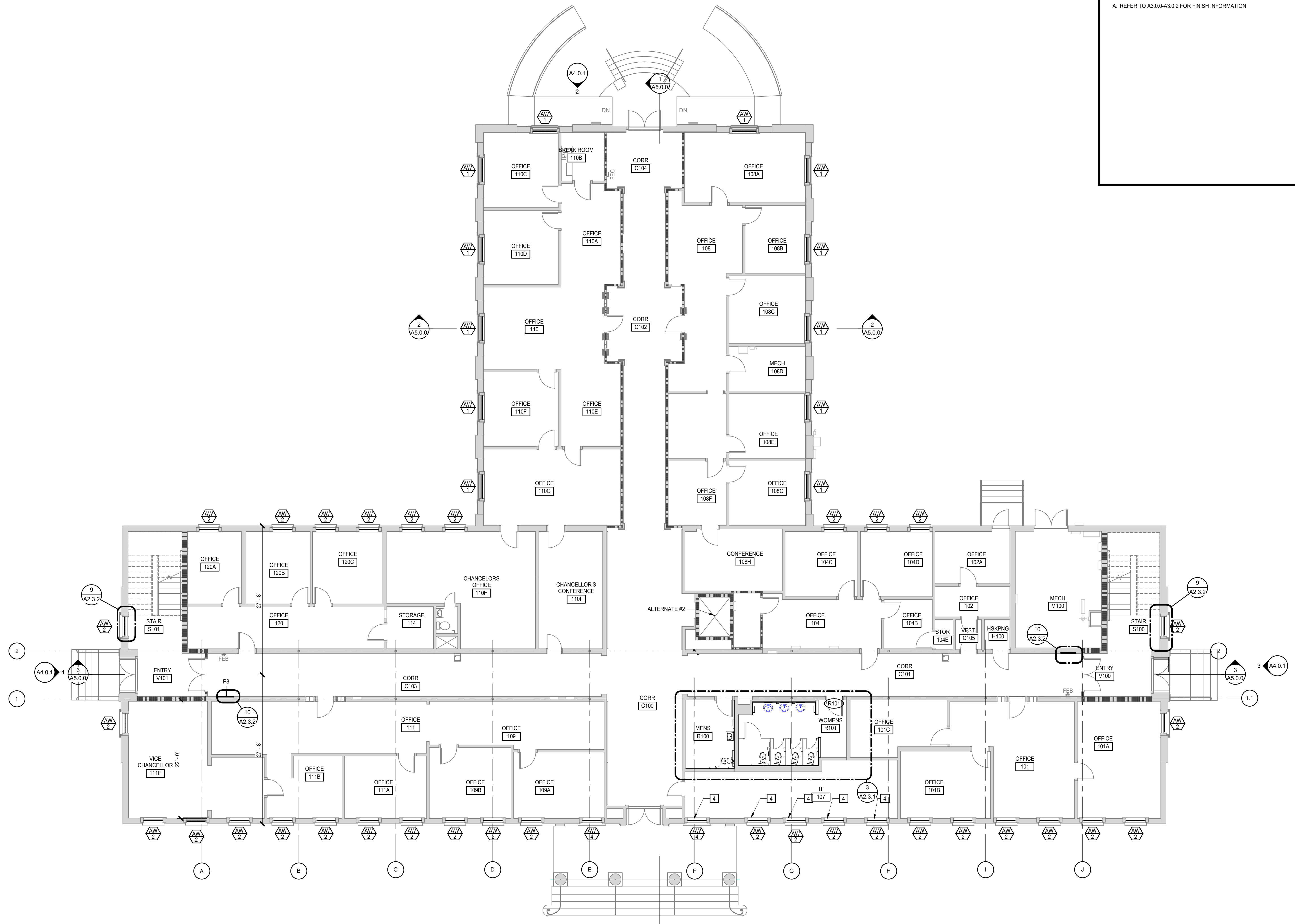


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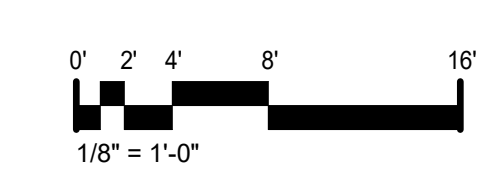
ARCHITECTURAL ALTERNATES	
ALTERNATES	
1.	RECOAT THE FLAT ROOF
2.	ELEVATOR MODERNIZATION

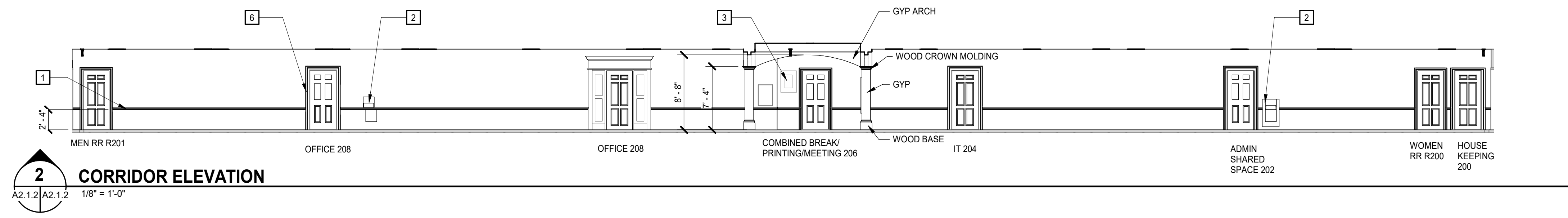
FLOOR PLAN KEYNOTES	
REPRESENTED BY []	
APPLIES TO DRAWINGS A2.1.1 - A2.1.3	
1	WOOD CHAIR RAIL
2	REINSTALL WATER FOUNTAIN
3	PAINT PANEL TO MATCH WALL COLOR
4	INTERIOR PLYWOOD WINDOW COVER TO REMAIN
5	REINSTALL FIRE EXTINGUISHER AND WOODEN MOUNT
6	WOOD TRIM, TYPICAL, REFER TO A8.1 FOR PROFILE.
7	STEEL GUARD
8	SEAL DORMER ABOVE

FLOOR PLAN GENERAL NOTES	
A.	REFER TO A3.0.0-A3.0.2 FOR FINISH INFORMATION

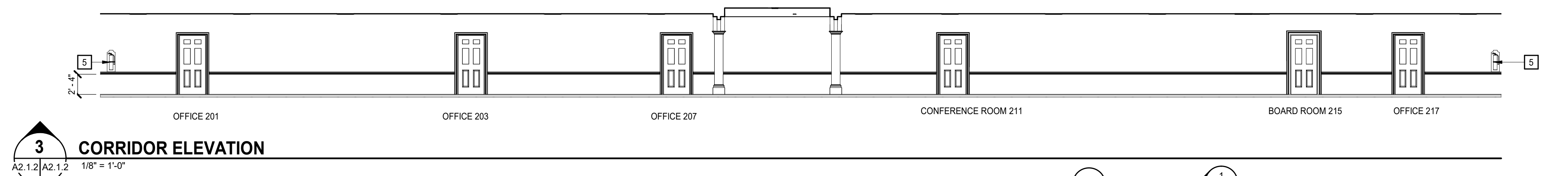


FLOOR PLAN - LEVEL 1
 1/8" = 1'-0"

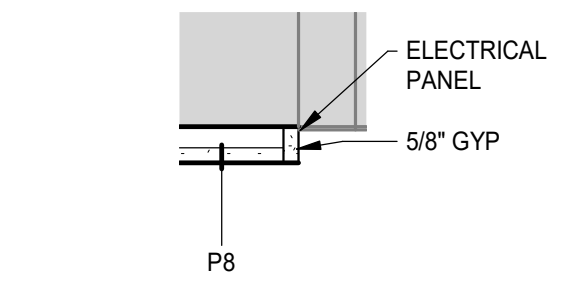




2 CORRIDOR ELEVATION
A2.1.2/A2.1.2 1/8" = 1'-0"



3 CORRIDOR ELEVATION
A2.1.2/A2.1.2 1/8" = 1'-0"



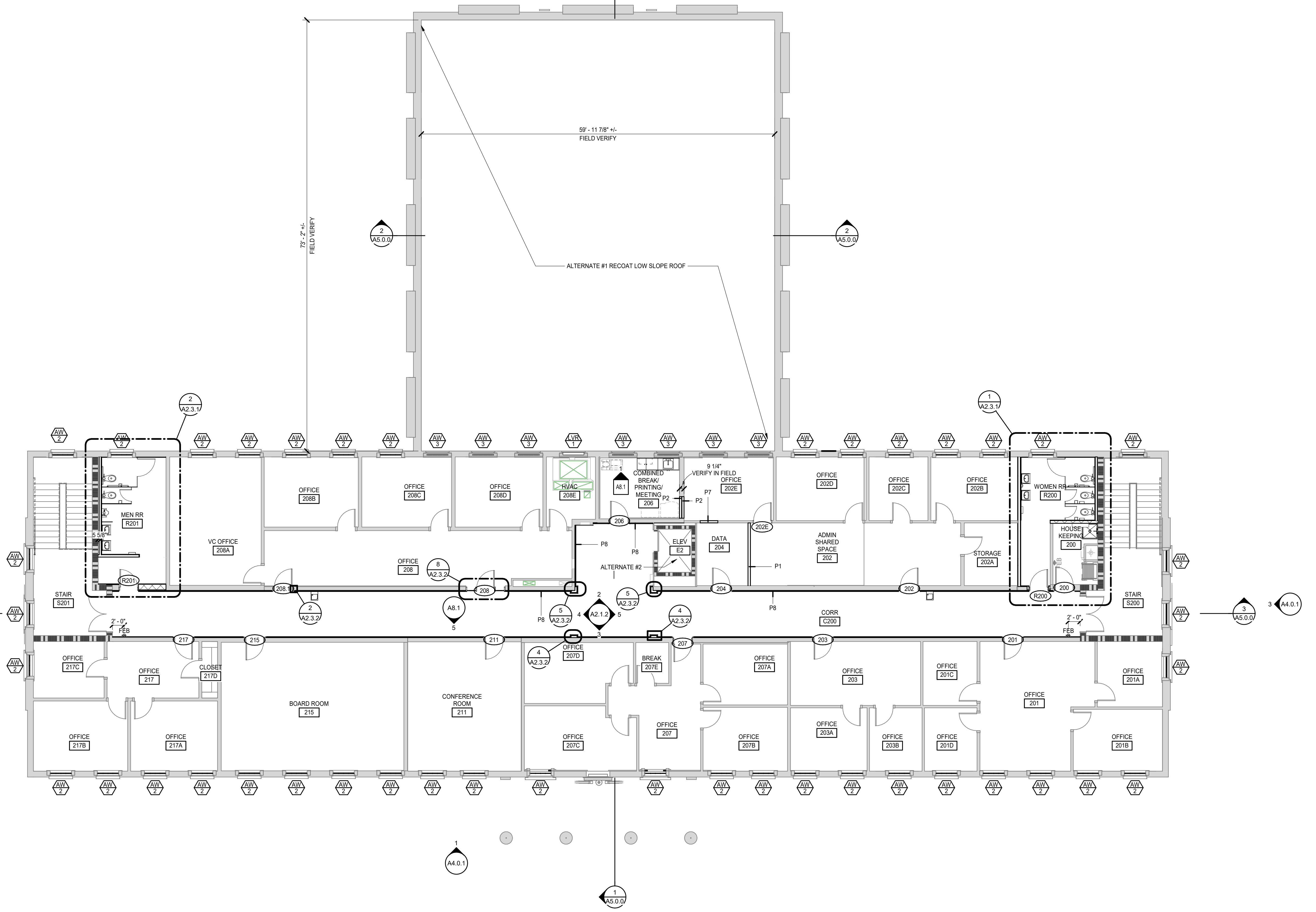
6 FURRING DETAIL AT PANEL
A2.1.2/A2.1.2 1 1/2" = 1'-0"

5 CORRIDOR ELEVATION
A2.1.2/A2.1.2 1/4" = 1'-0"

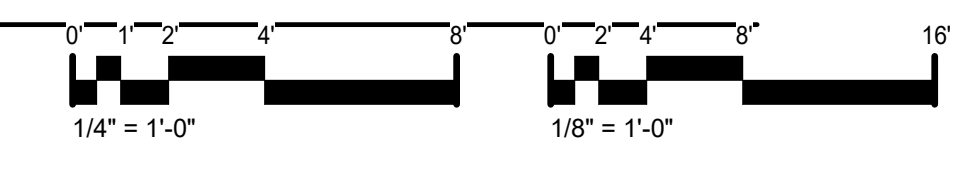
4 CORRIDOR ELEVATION
A2.1.2/A2.1.2 1/4" = 1'-0"

ARCHITECTURAL ALTERNATES	
ALTERNATES	
1.	RECOAT LOW SLOPE ROOF
2.	ELEVATOR MODERNIZATION

FLOOR PLAN KEYNOTES	
REPRESENTED BY [n]	
APPLIES TO DRAWINGS A2.1.1 - A2.1.3	
1	WOOD CHAIR RAIL
2	REINSTALL WATER FOUNTAIN
3	PAINT PANEL TO MATCH WALL COLOR
4	INTERIOR PLYWOOD WINDOW COVER TO REMAIN
5	REINSTALL FIRE EXTINGUISHER AND WOODEN MOUNT
6	WOOD TRIM, TYPICAL. REFER TO A8.1 FOR PROFILE.
7	STEEL GUARD
8	SEAL DORMER ABOVE



FLOOR PLAN - LEVEL 2
1/8" = 1'-0"



MOSELEY ARCHITECTS
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0951
MOSELEYARCHITECTS.COM



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UNIVERSITY OF NORTH CAROLINA WILMINGTON
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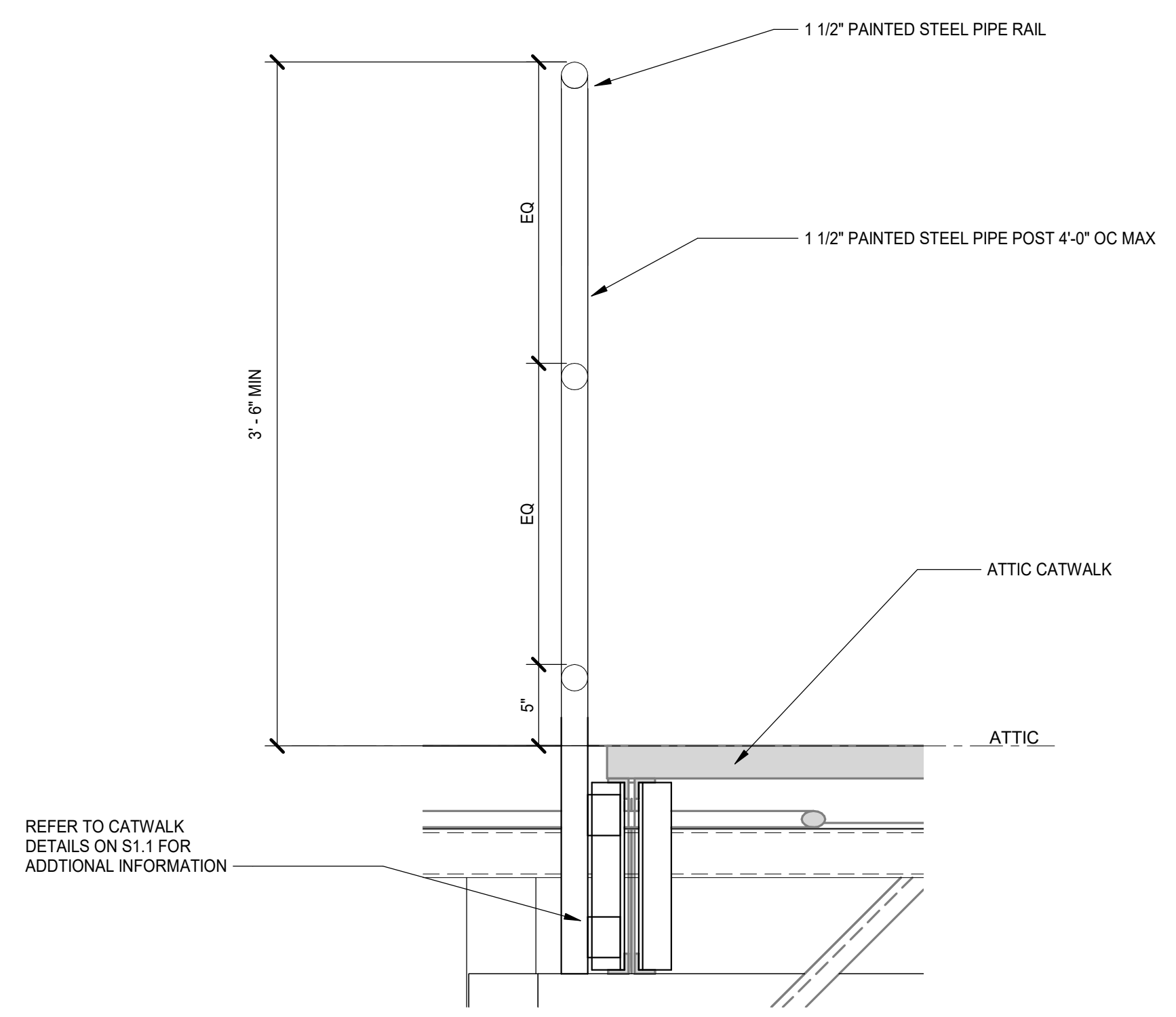
FLOOR PLAN - LEVEL 2

A2.1.2

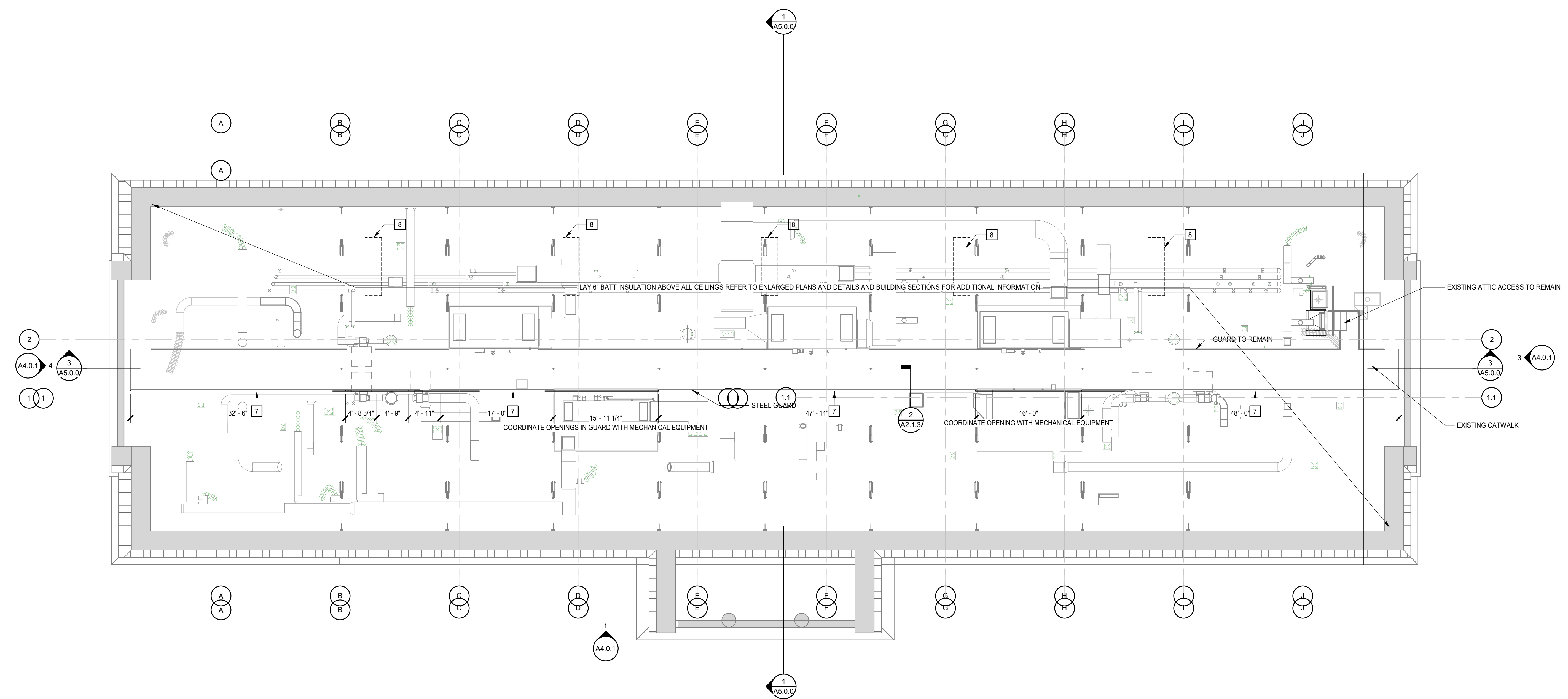
12/11/2023 10:32:54 AM



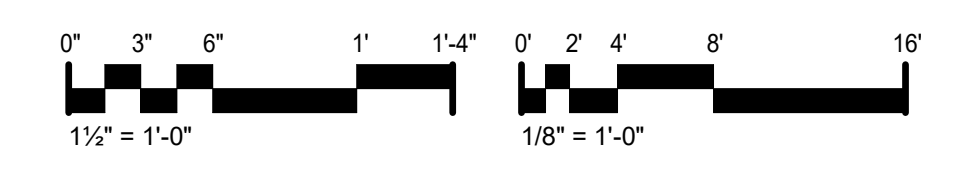
FLOOR PLAN KEYNOTES	
REPRESENTED BY []	
APPLIES TO DRAWINGS A2.1.1 - A2.1.3	
1	WOOD CHAIR RAIL
2	REINSTALL WATER FOUNTAIN
3	PAINT PANEL TO MATCH WALL COLOR
4	INTERIOR PLYWOOD WINDOW COVER TO REMAIN
5	REINSTALL FIRE EXTINGUISHER AND WOODEN MOUNT
6	WOOD TRIM, TYPICAL. REFER TO A8.1 FOR PROFILE.
7	STEEL GUARD
8	SEAL DORMER ABOVE



2 ATTIC RAIL DETAIL
A2.1.3 A2.1.3 1 1/2" = 1'-0"



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



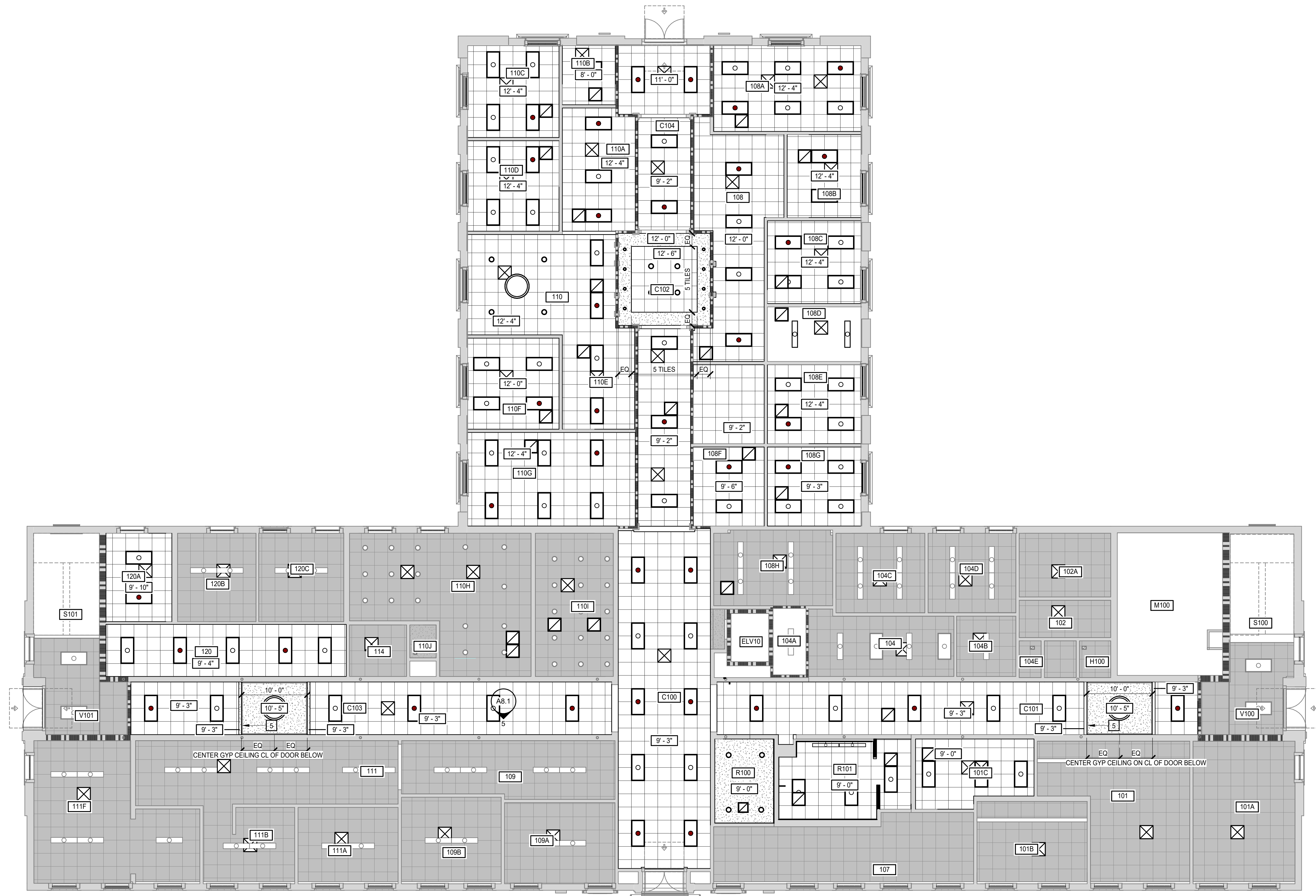
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FLOOR PLAN - ATTIC & DETAILS

A2.1.3

REFLECTED CEILING PLAN
1/8" = 1'-0"



REFLECTED CEILING PLAN LEGEND
APPLIES TO DRAWINGS A2.2.1 - A2.2.2
REFER TO M, E & FP DRAWINGS FOR REFLECTED CEILING PLAN SYMBOLS NOT INDICATED BELOW

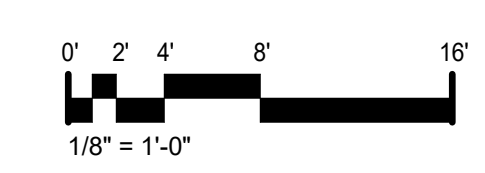
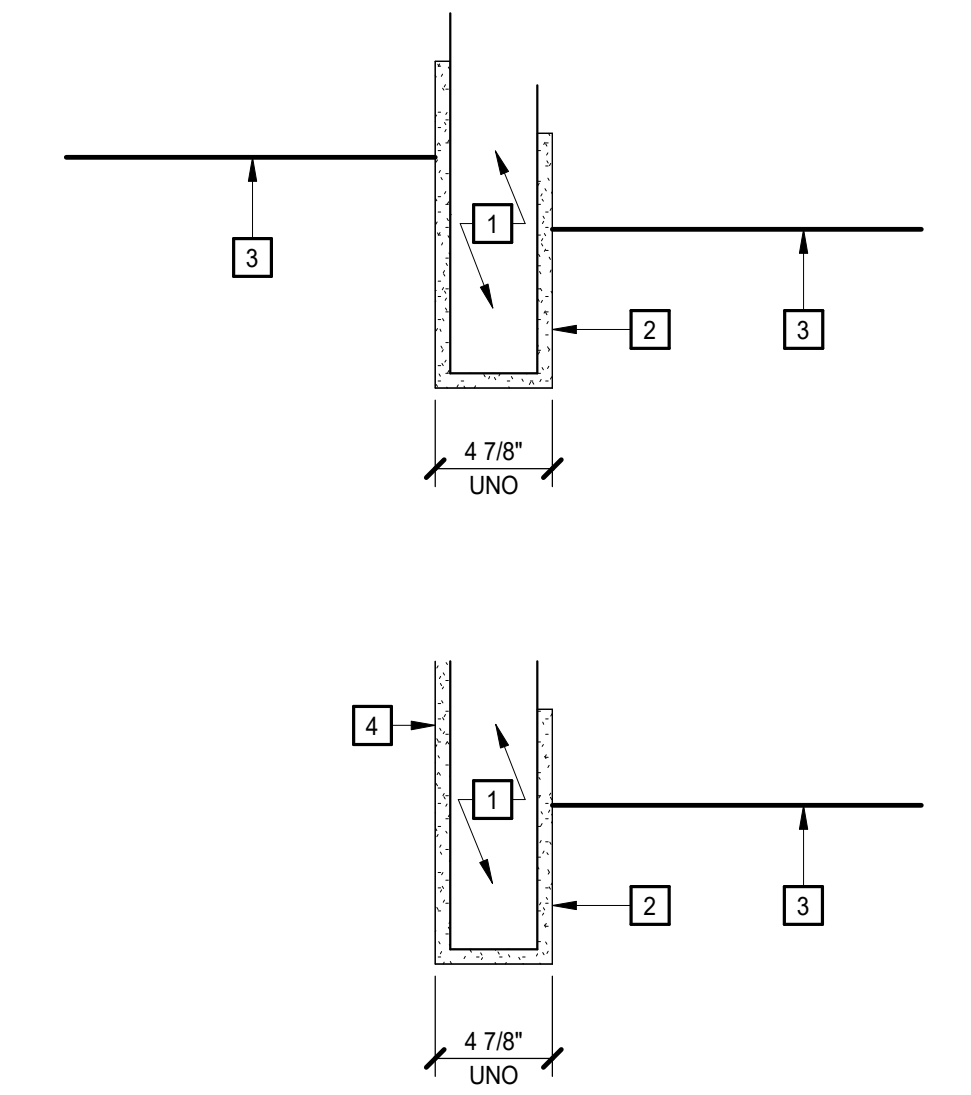
	SPACE NUMBER CEILING HEIGHT, AFF UNO
	INTERIOR APPLICATIONS: GYPSUM BOARD CEILING
	EXTERIOR APPLICATIONS: GYPSUM SOFFIT BOARD OR GYPSUM SHEATHING
	2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
	EXISTING LAY IN CEILING TO REMAIN
	EXISTING GYPSUM BOARD CEILING TO REMAIN
	ACCESS PANEL
	EXTERIOR WALL
	INTERIOR WALL/PARTITION TO UNDERSIDE OF DECK
	INTERIOR WALL/PARTITION TO UNDERSIDE OF ATTIC TRUSSES
	EXISTING TO REMAIN
	INTERIOR WALL/PARTITION 4" MIN ABOVE HIGHEST ADJACENT CEILING. IF NECESSARY TO ACHIEVE RESULTS DESIRED, EXTEND WALL HEIGHT SO WALL BRACING IS NOT EXPOSED TO VIEW IN FINISHED SPACES

REFLECTED CEILING PLAN/DETAIL GENERAL NOTES

- ALL CEILING HEIGHTS SHALL BE 9'-4" AFF UNLESS INDICATED OTHERWISE.
- DRAWINGS INDICATE GRID LAYOUT DIAGRAMMATICALLY. REFER TO SPECIFICATIONS FOR SPECIFIC GRID LAYOUT CRITERIA AT PERIMETER CONDITIONS THAT MAY DIFFER FROM GRID LAYOUT INDICATED ON DRAWINGS.
- CENTER CEILING MOUNTED ITEMS WITHIN CEILING PANELS, UNLESS INDICATED OTHERWISE.

REFLECTED CEILING PLAN KEYNOTES
REPRESENTED BY [n]
APPLIES TO DRAWINGS A2.2.1 - A2.2.2

- CFSF-S
- 5/8" GYP BD, TERMINATE 4" ABV FIN CLG
- FIN CLG: FINISH AND/OR HEIGHT AFF VARIES
- GYP BD: EXTEND FULL HEIGHT, UNLESS INDICATED OTHERWISE
- WOOD CROWN MOLDING



BULKHEAD DETAILS
NO SCALE



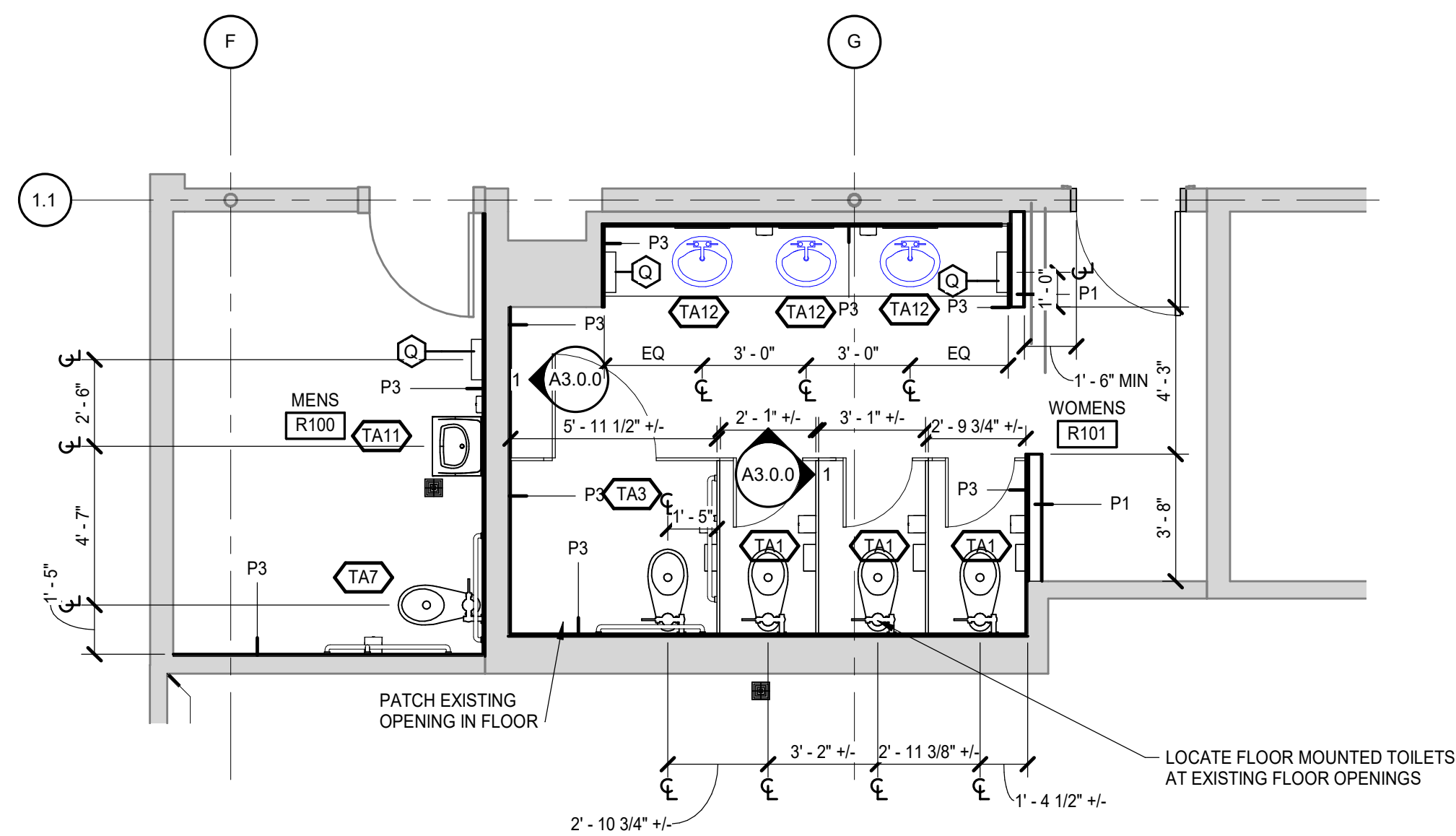
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FLOOR PLAN KEYNOTES	
REPRESENTED BY [n]	
APPLIES TO DRAWINGS A2.3.1-A2.3.3	
1	TOOTH INTO EXISTING ADJACENT CMU WALLS
2	6" BATT INSULATION
3	WOOD CHAIR RAIL
4	ALIGN END OF TILE P3 WITH FACE OF WALL
5	WOOD TRIM
6	5/8" GYP BOARD
7	1 1/2" HAT CHANNELS; RUN BETWEEN EXISTING TRIM
8	SHIM AS REQUIRED
9	FILL CAVITY WITH 1 1/2" SAB
10	ALIGN FACE OF GYP WITH FACE OF P8 PARTITION BELOW
11	NEW DOOR PANEL REFER TO DOOR SCHEDULE
12	WOOD BASE
13	WOOD CROWN MOLDING
14	FROSTED FILM TO INSIDE OF WINDOW
16	3/4" WOOD QUARTER ROUND

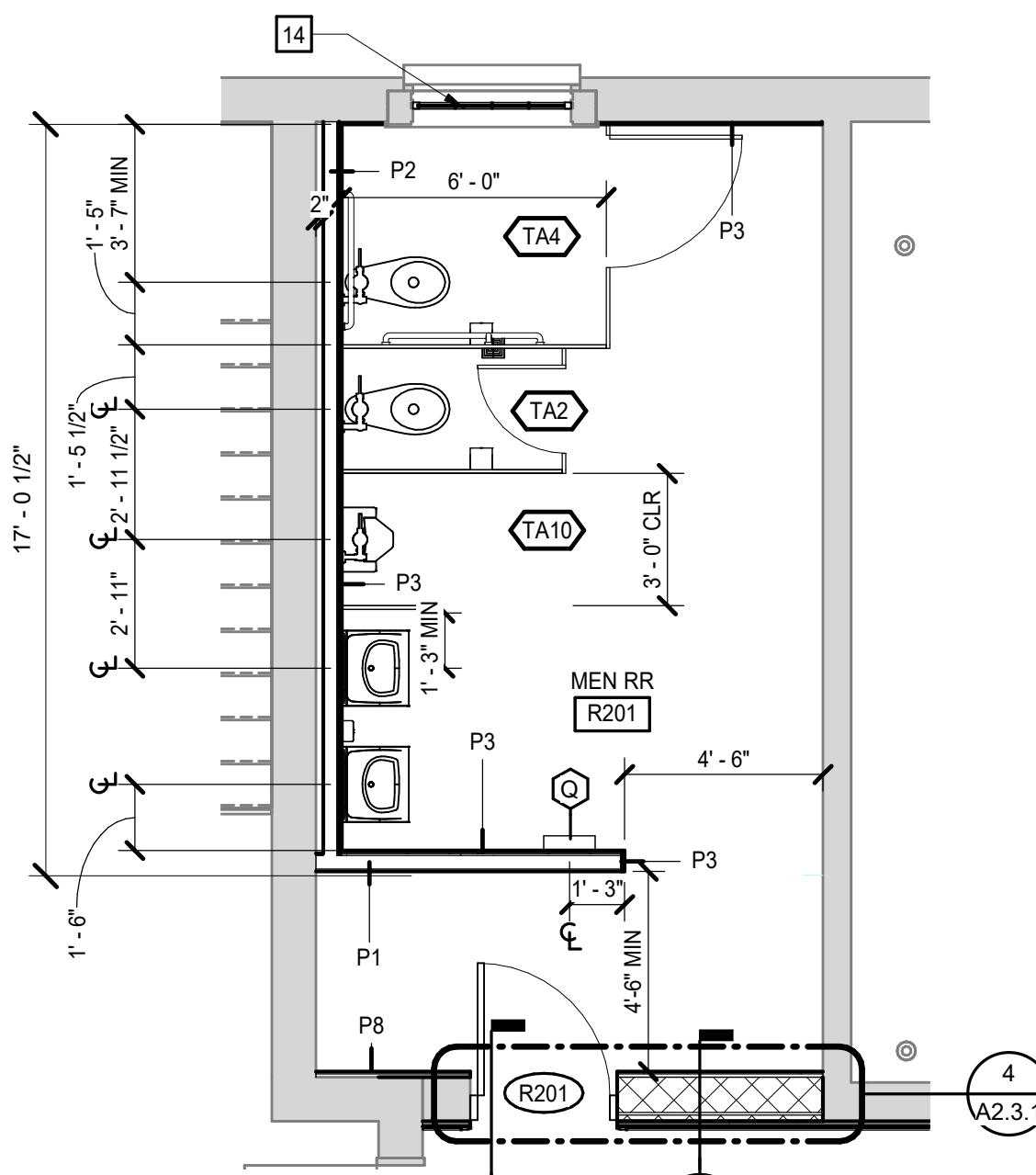
TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLAN GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR SUCH AS CERAMIC TILE, DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

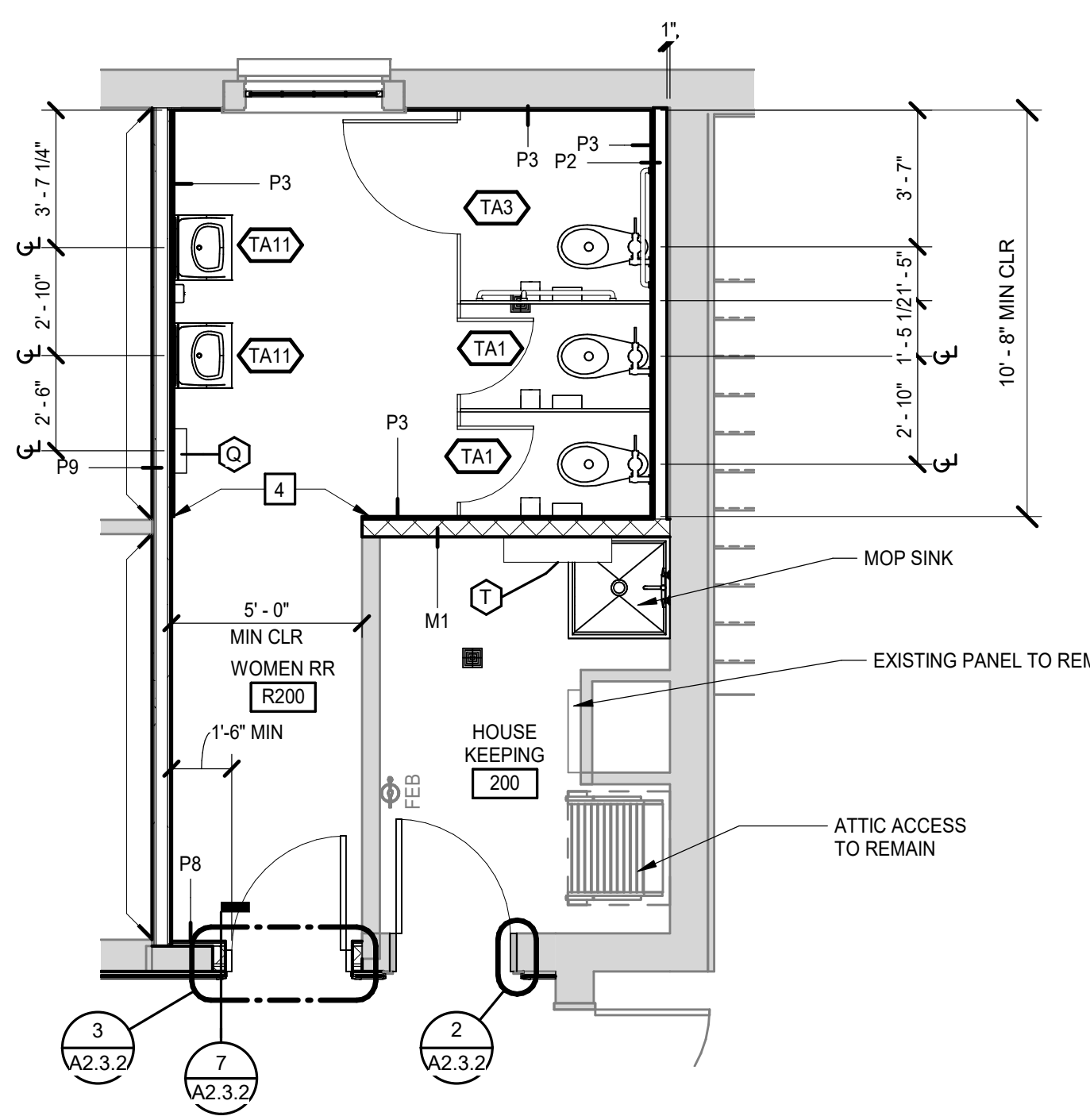
B. CLEAR DIMENSIONS ARE TO FACE OF APPLIED WALL AND PARTITION FINISHES.



3 FLOOR PLAN FIRST FLOOR TOILET
A2.1.1 | A2.3.1 1/4" = 1'-0"



2 ENLARGED PLAN - MENS RESTROOM
A2.1.2 | A2.3.1 1/4" = 1'-0"



1 ENLARGED PLAN - WOMENS RR
A2.1.2 | A2.3.1 1/4" = 1'-0"

TOILET ASSEMBLIES					
APPLIES TO DRAWINGS A2.3.1 REPRESENTED BY [Tan]					
MARK	REMARKS	PLAN	MARK	REMARKS	PLAN
TA1 TA1A	2'10" CLEAR @ TA1A		TA10	BARRIER FREE	
TA2	OMIT (E)		TA11	CENTER (G) OVER LAVATORY	
TA3	BARRIER FREE		TA12	CENTER (G) OVER LAVATORY	
TA4	OMIT (E)				
TA5	BARRIER FREE				
TA6	OMIT (E)				
TA7	BARRIER FREE				
TA8	OMIT (E)				
TA9					

LEGEND NOTES:

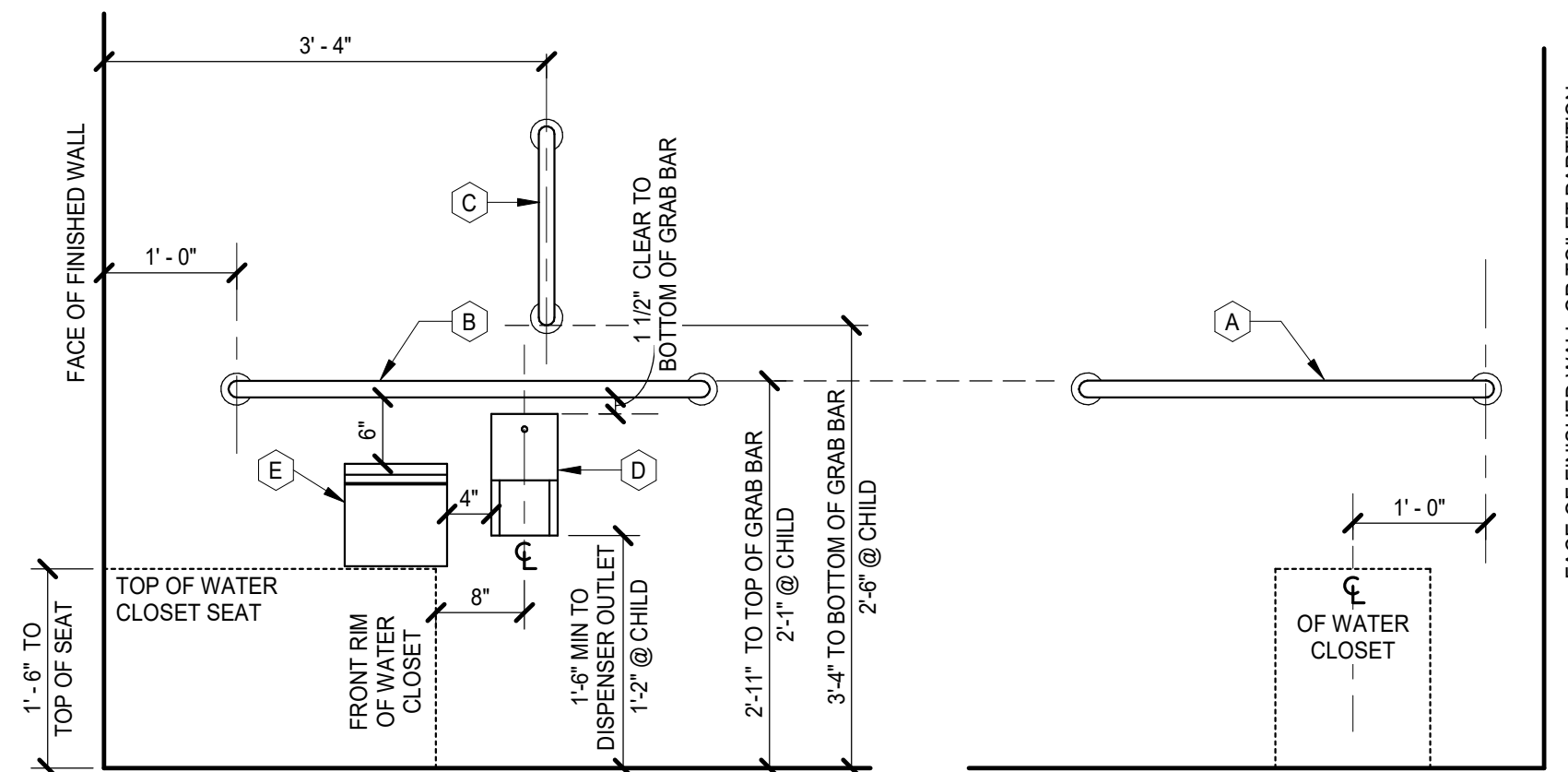
A. HANDING/ORIENTATION MAY VARY. REFER TO PLANS FOR PROPER ORIENTATION.

B. PLUMBING FIXTURE GRAPHICS IN THIS LEGEND ARE REPRESENTATIVE ONLY. ACTUAL PLUMBING FIXTURES MAY VARY.

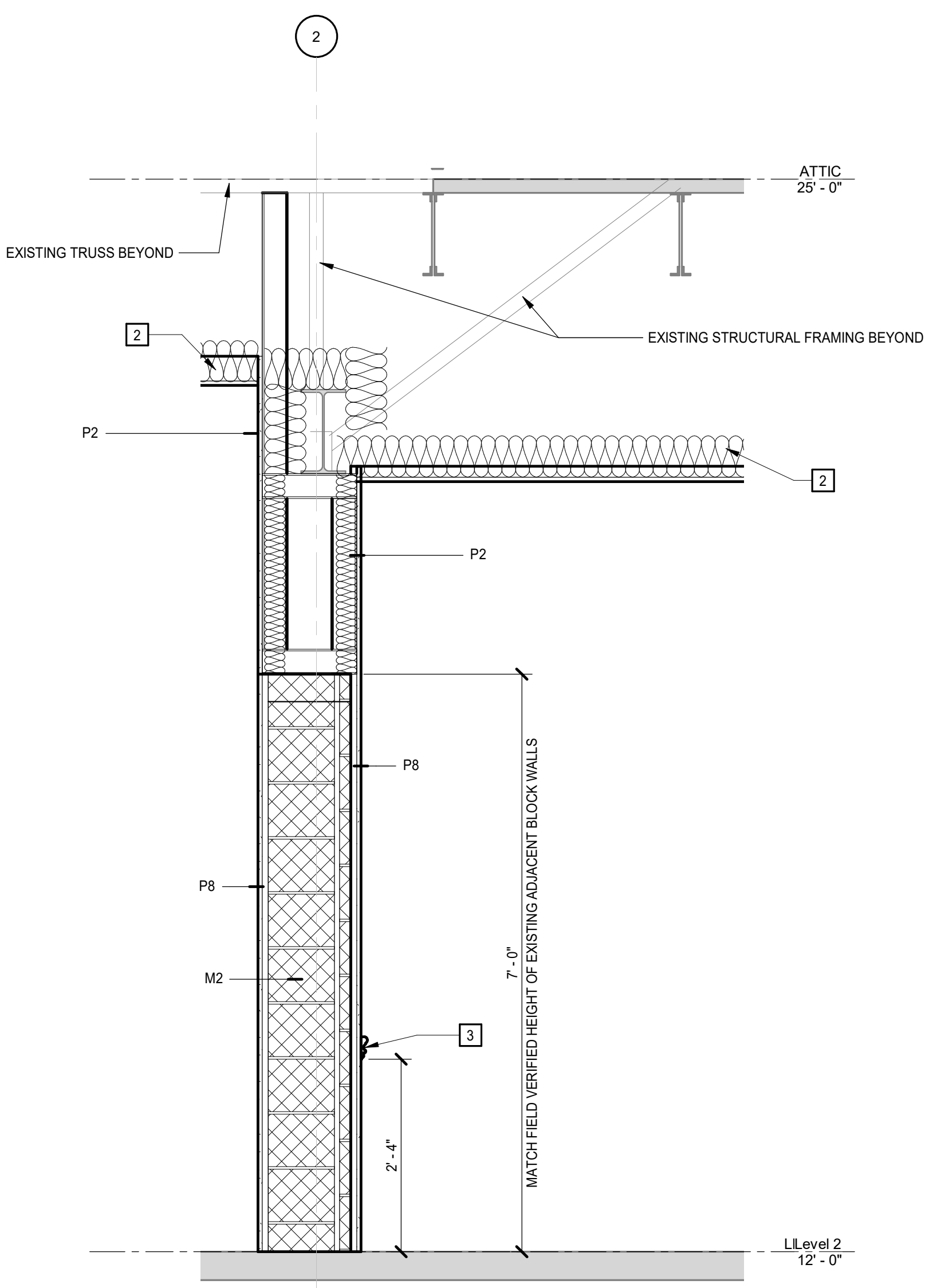
C. COAT/ROBE HOOKS INDICATED ON THE BACK OF TOILET COMPARTMENT DOORS ARE PART OF THE TOILET COMPARTMENT ASSEMBLY AND ARE NOT CONSIDERED A TOILET ACCESSORY.

TOILET ACCESSORIES SCHEDULE			
MARK	DESCRIPTION	MOUNTING HEIGHT	REMARKS
A	36" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
B	42" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
C	18" VERTICAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
D	TOILET TISSUE DISPENSER	REFER TO WATER CLOSET ELEVATIONS	OWNER FURNISHED CONTRACTOR INSTALLED
E	SANITARY NAPKIN DISPOSAL	REFER TO WATER CLOSET ELEVATIONS	OWNER FURNISHED CONTRACTOR INSTALLED
F	SOAP DISPENSER	3'-4" AFF TO DISPENSING OUTLET	OWNER FURNISHED CONTRACTOR INSTALLED
G	MIRROR (18" x 36"), OVER LAV AND COUNTERTOP	3'-4" AFF TO BOTTOM OF REFLECTIVE SURFACE	
Q	PAPER TOWEL DISPENSER	3'-4" AFF TO DISPENSING OUTLET	OWNER FURNISHED CONTRACTOR INSTALLED
T	MOP & BROOM HOLDER W/ SHELF	5'-0" AFF TO TOP OF SHELF	

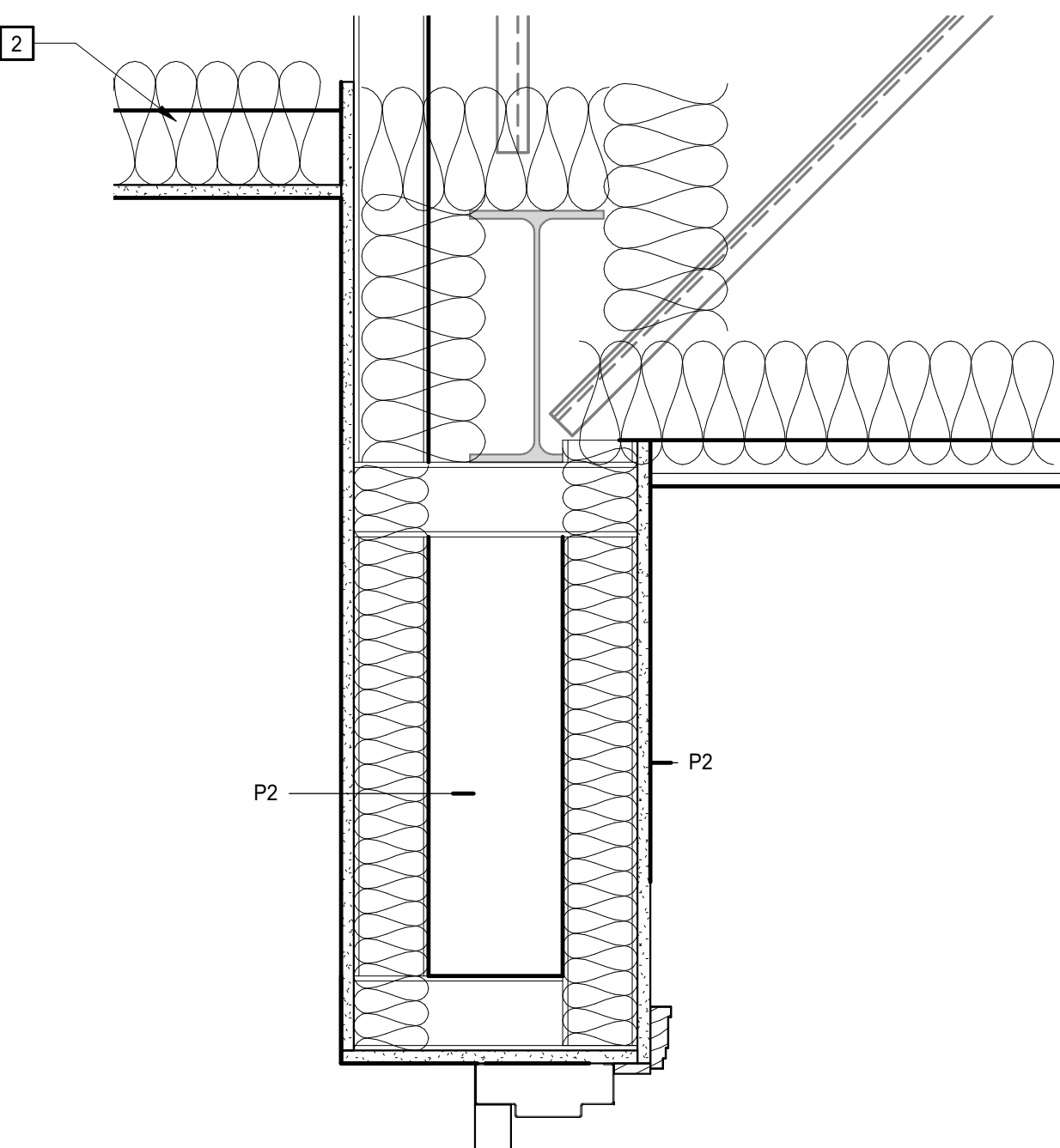
- ACCESSORY ITEMS ARE IDENTIFIED BY [Symbol] ON PLANS. LETTERS CORRESPOND TO SCHEDULE ABOVE.
- ACTUAL DIMENSIONS OF ACCESSORIES MAY VARY. COORDINATE DIFFERENCES, IF ANY.
- REFER TO ALL CASEWORK ELEVATIONS FOR ADDITIONAL TOILET ACCESSORY LOCATIONS.
- PROVIDE MOP AND BROOM HOLDER W/ SHELF [Symbol] AT ALL CUSTODIAN/ANTIORIAL SINKS. MOUNT AT 5'-0" AFF TO CENTERLINE AND LOCATE ON SIDE WALL OF SINK (NOT ON WALL ABOVE FAUCET).
- PROVIDE ROBE HOOK ON INTERIOR FACE OF ALL TOILET ROOM DOORS WHEREIN ONLY ONE WATER CLOSET IS PROVIDED. MOUNT AT 3'-11" AFF TO TOP.



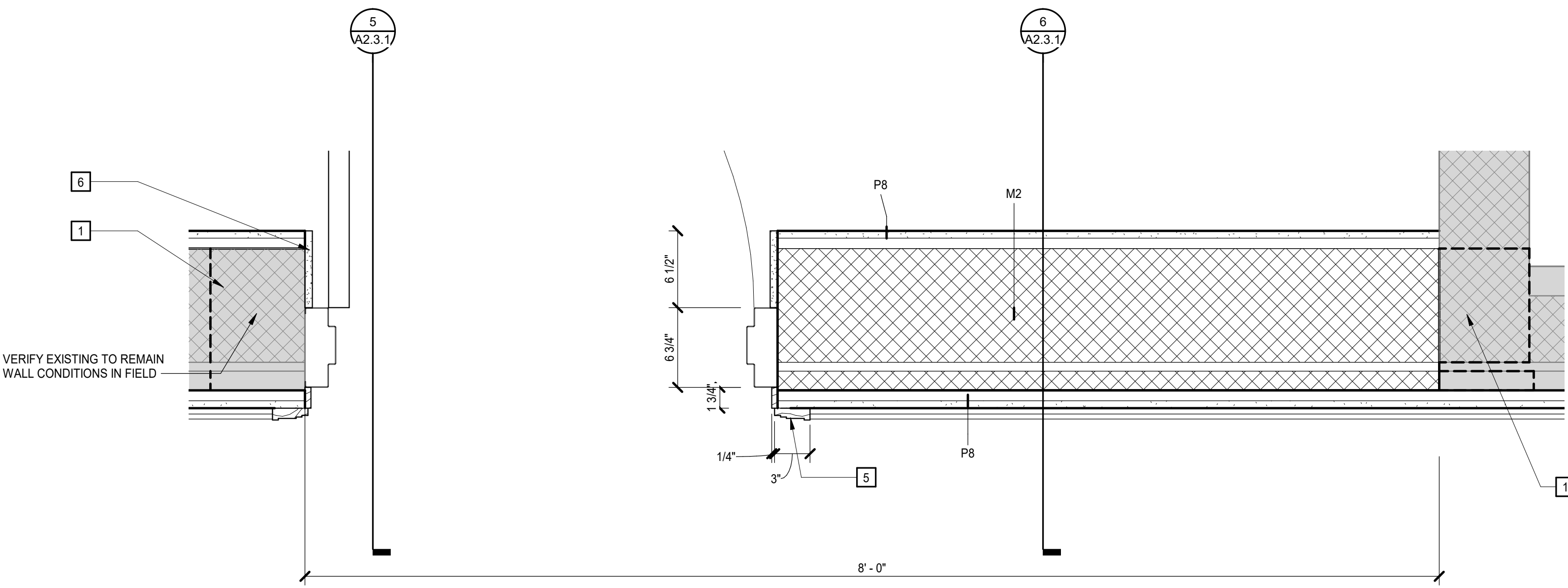
WATER CLOSET ELEVATIONS
3/4" = 1'-0"



6 SECTION
TYP | A2.3.1 3/4" = 1'-0"



5 HEAD DETAIL
A1.2.2 | A2.3.1 1 1/2" = 1'-0"



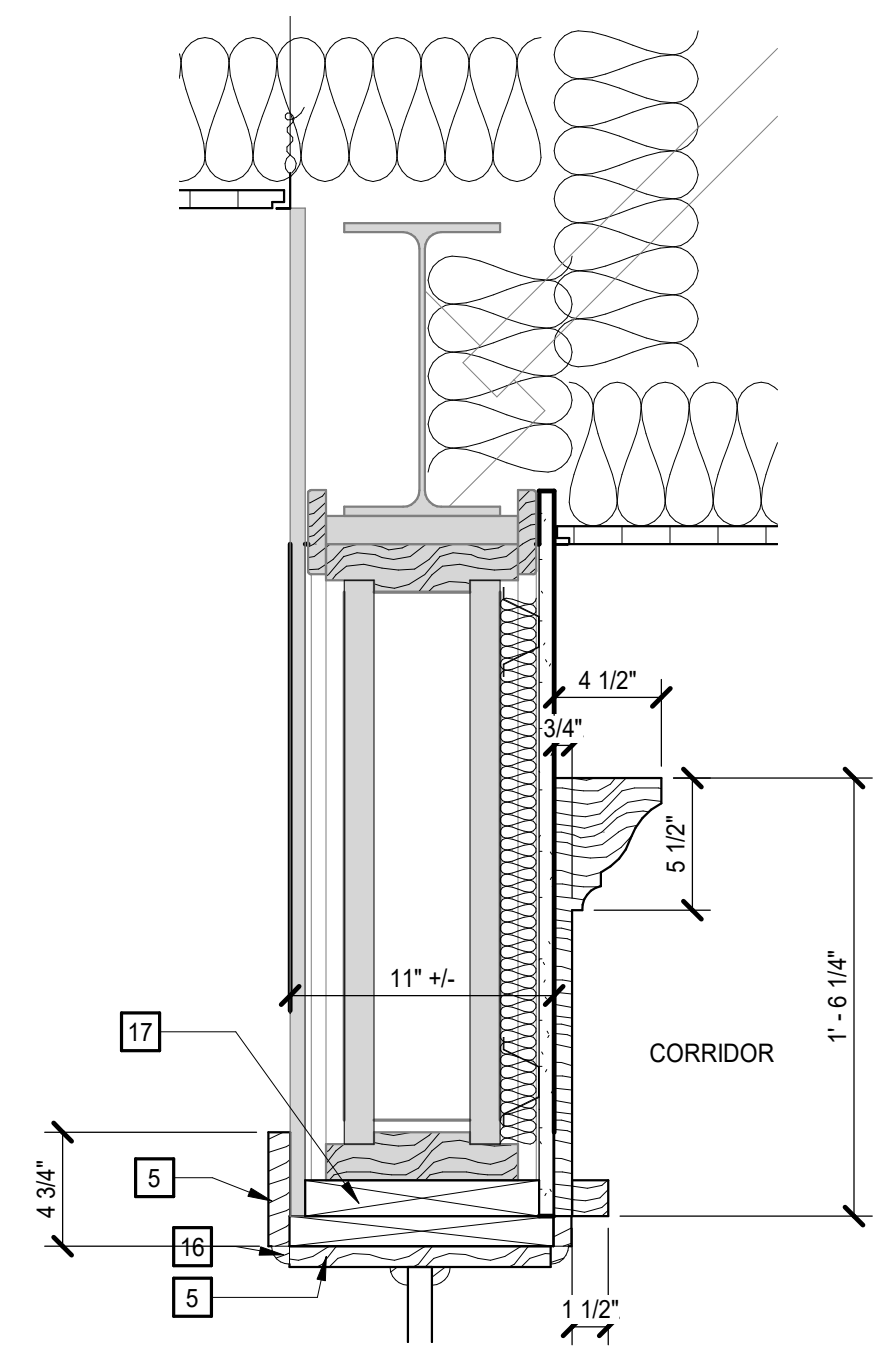
4 DETAIL
A2.3.1 | A2.3.1 1 1/2" = 1'-0"

DATE	REVISIONS	DESCRIPTION

FLOOR PLAN KEYNOTES

REPRESENTED BY []
 APPLIES TO DRAWINGS A2.3.1-A2.3.3

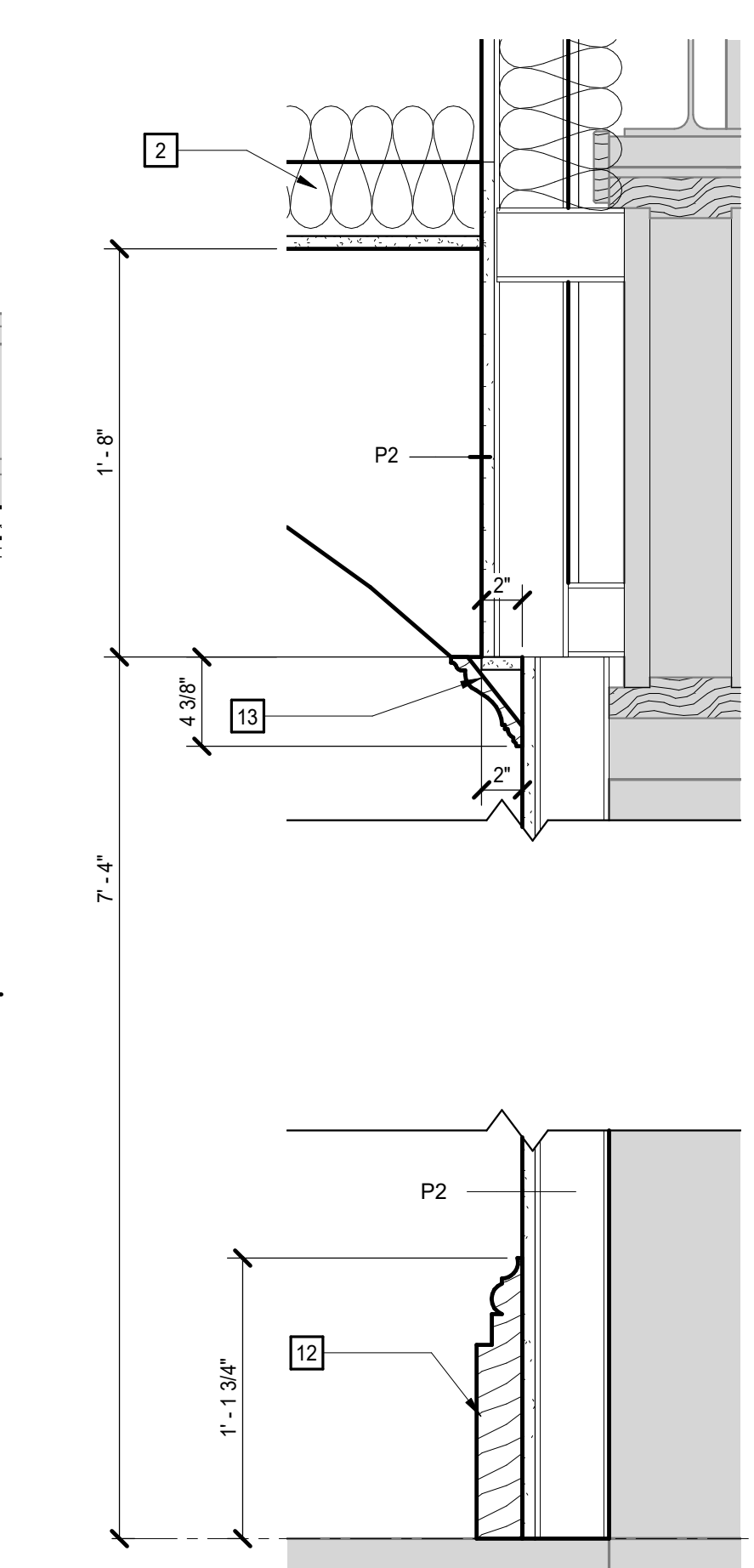
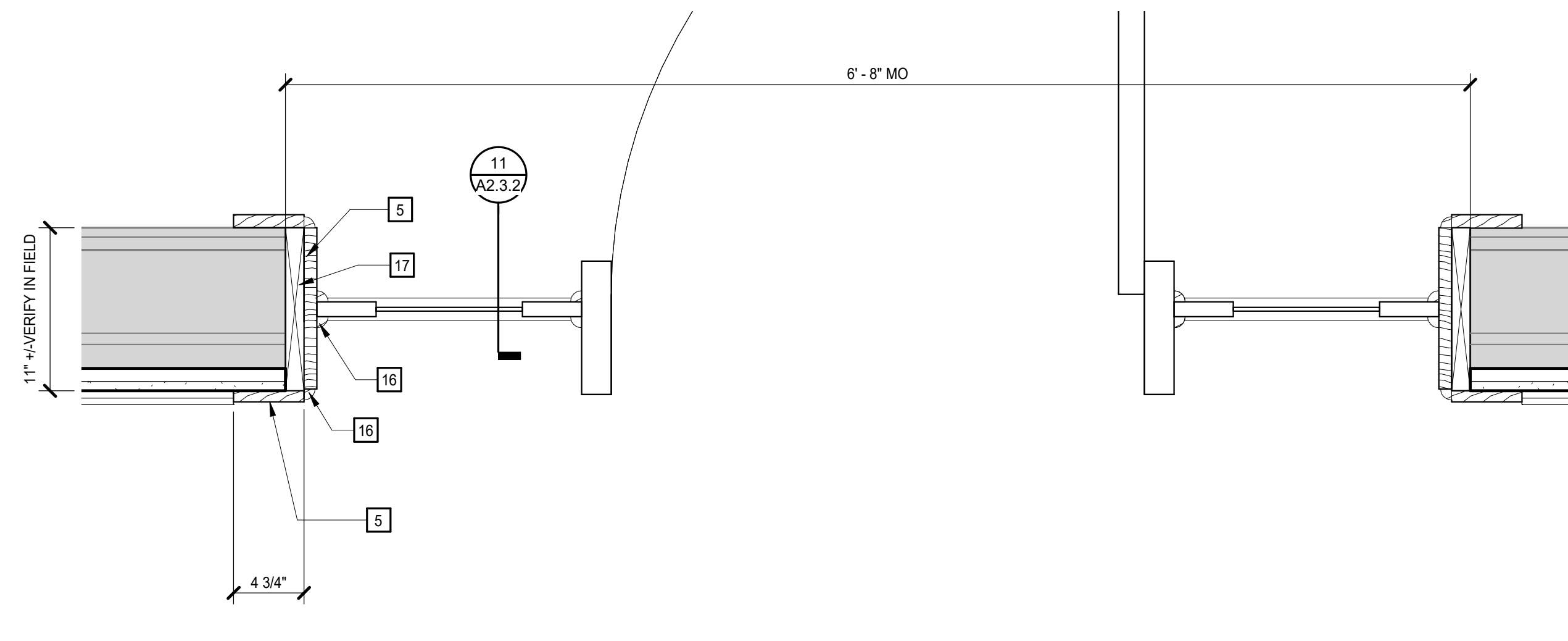
- 1 TOOTH INTO EXISTING ADJACENT CMU WALLS
- 2 6" BATT INSULATION
- 3 WOOD CHAIR RAIL
- 4 ALIGN END OF TILE P3 WITH FACE OF WALL
- 5 WOOD TRIM
- 6 5/8" GYP BOARD
- 7 1 1/2" HAT CHANNELS, RUN BETWEEN EXISTING TRIM
- 8 SHIM AS REQUIRED
- 9 FILL CAVITY WITH 1 1/2" SAB
- 10 ALIGN FACE OF GYP WITH FACE OF P8 PARTITION BELOW
- 11 NEW DOOR PANEL REFER TO DOOR SCHEDULE
- 12 WOOD BASE
- 13 WOOD CROWN MOLDING
- 14 FROSTED FILM TO INSIDE OF WINDOW
- 16 3/4" WOOD QUARTER ROUND



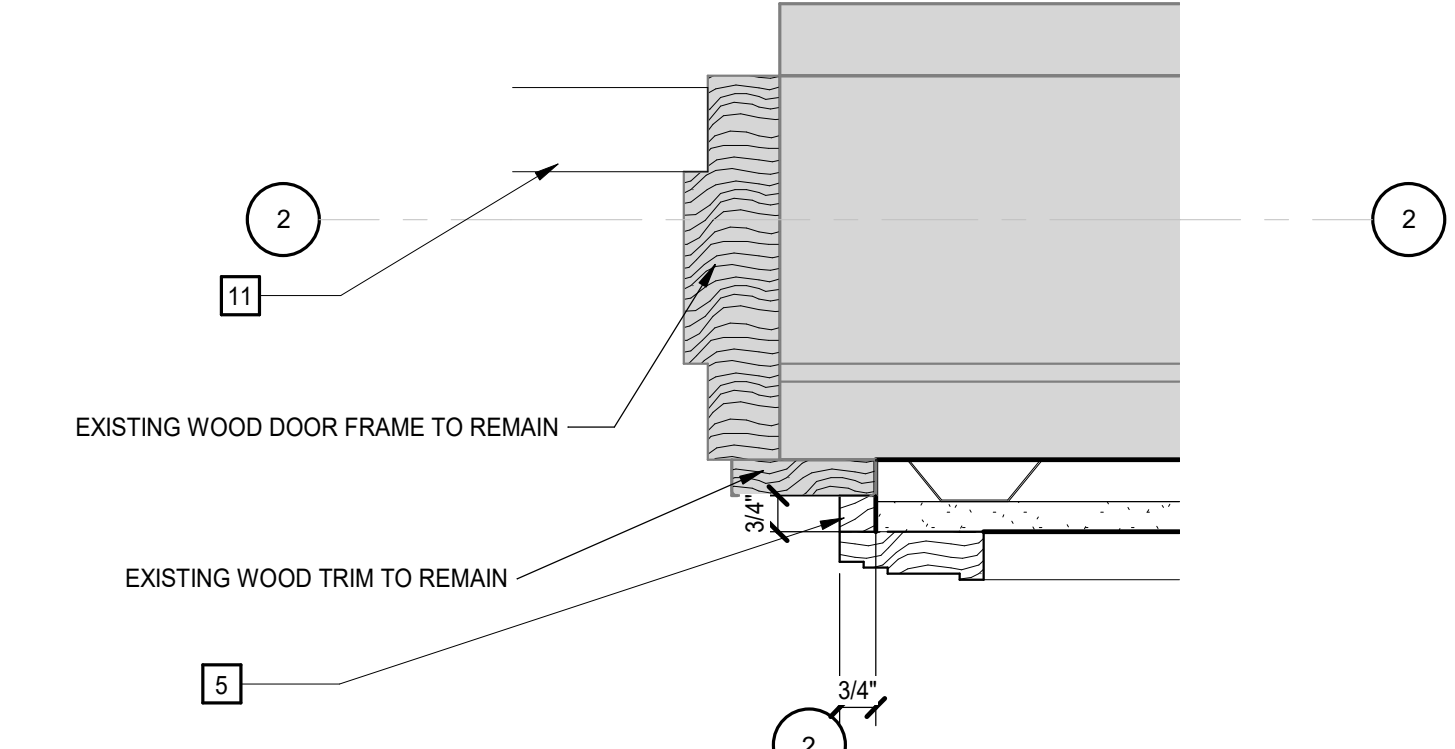
11 SECTION DETAIL
 A2.3.2 | A2.3.2 | 1 1/2" = 1'-0"

NOTE: REFER TO 8/A3.2.3 AND 1/A2.3.2 FOR ADDITIONAL NOTES

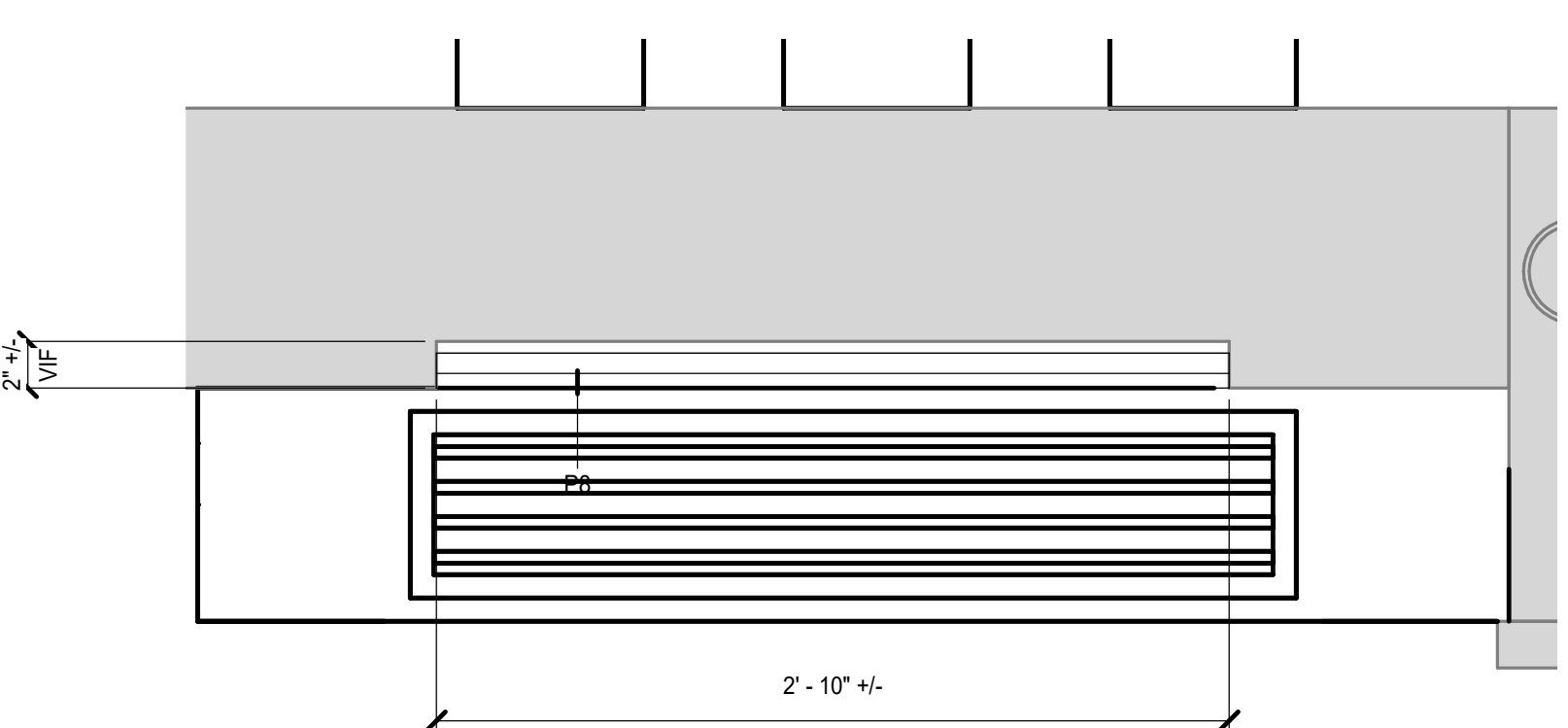
8 PLAN DETAIL
 A2.1.2 | A2.3.2 | 1 1/2" = 1'-0"



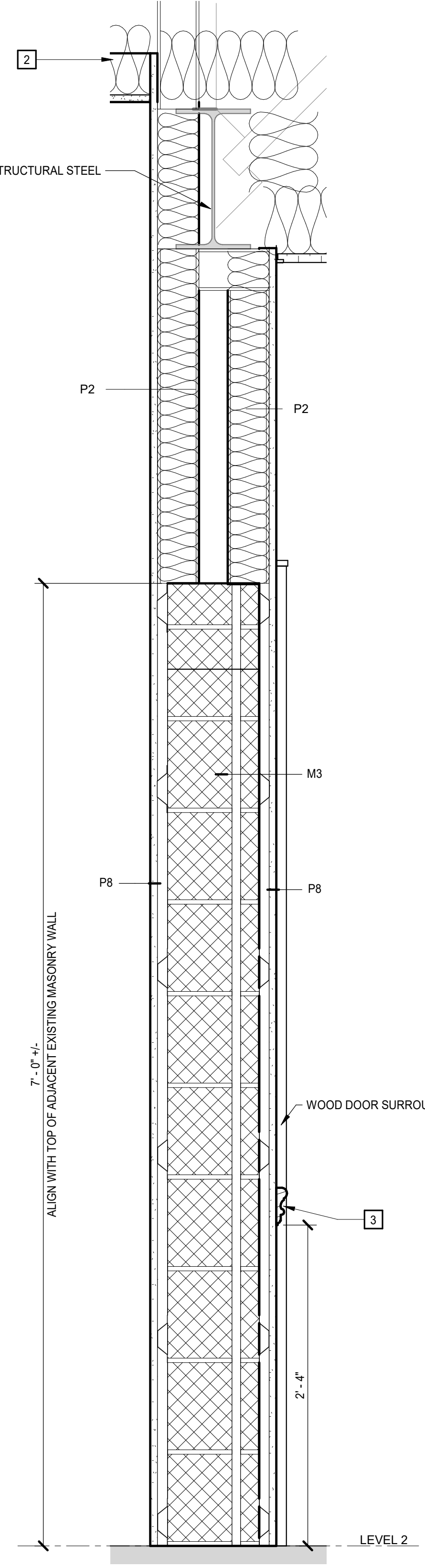
6 SECTION
 A2.3.2 | A2.3.2 | 1 1/2" = 1'-0"



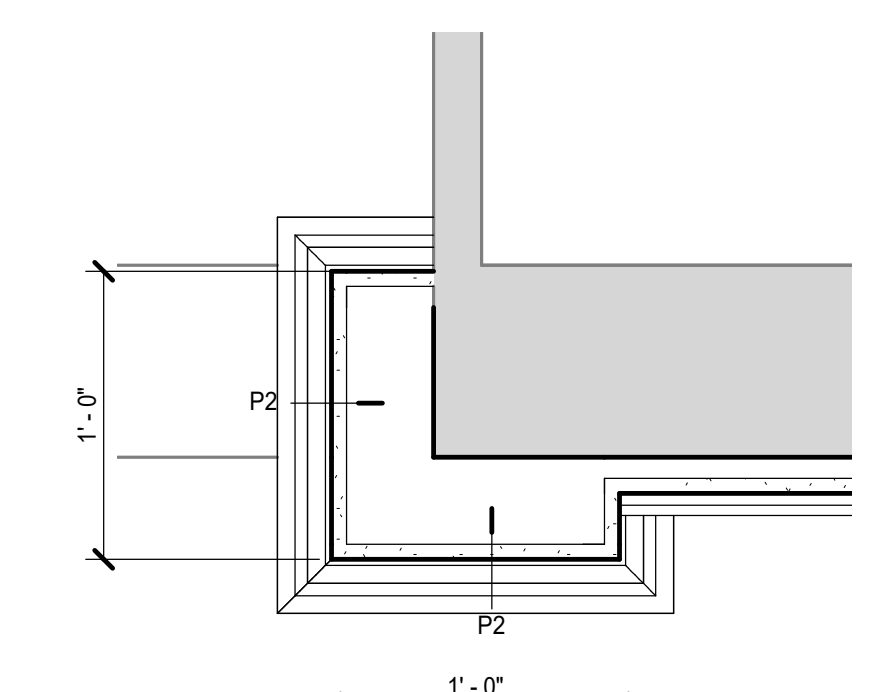
2 JAMB DETAIL EXISTING FRAME TO REMAIN
 A2.1.2 | A2.3.2 | 3" = 1'-0"



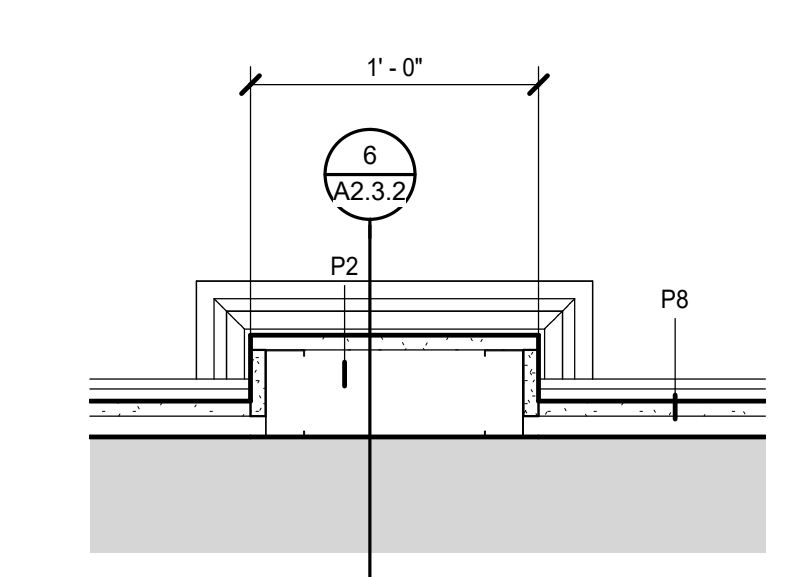
10 PLAN DETAIL
 A2.1.1 | A2.3.2 | 1 1/2" = 1'-0"



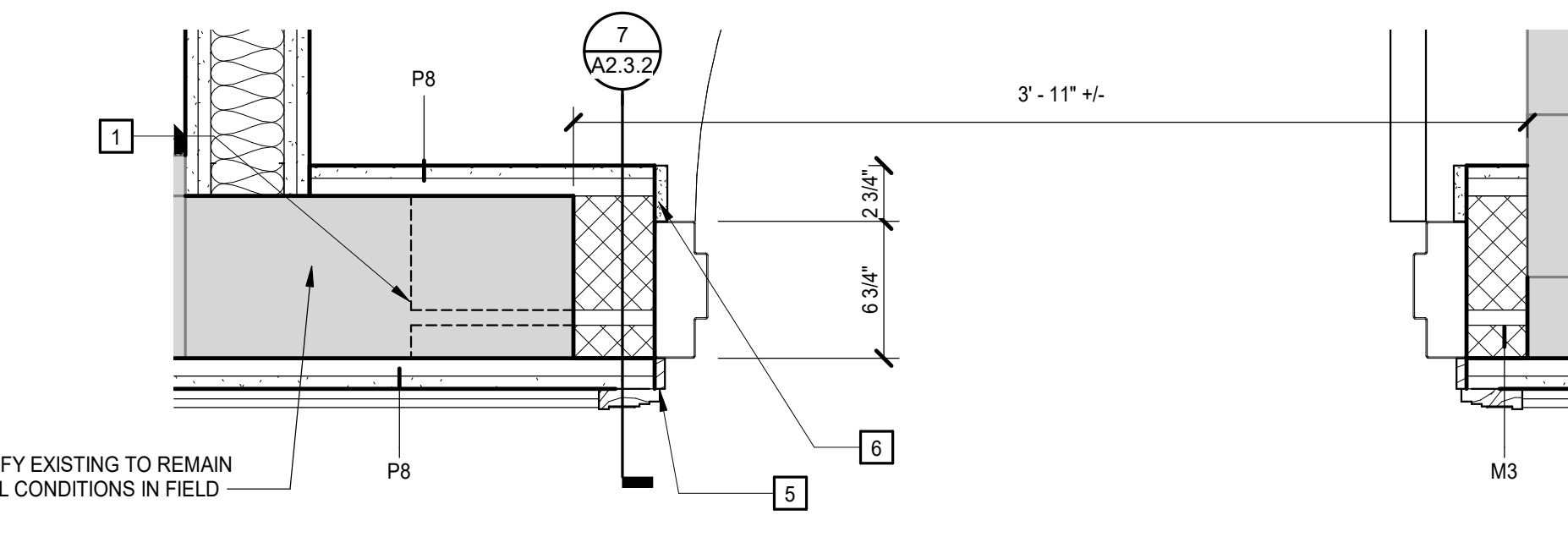
7 SECTION
 A2.3.1 | A2.3.2 | 1 1/2" = 1'-0"



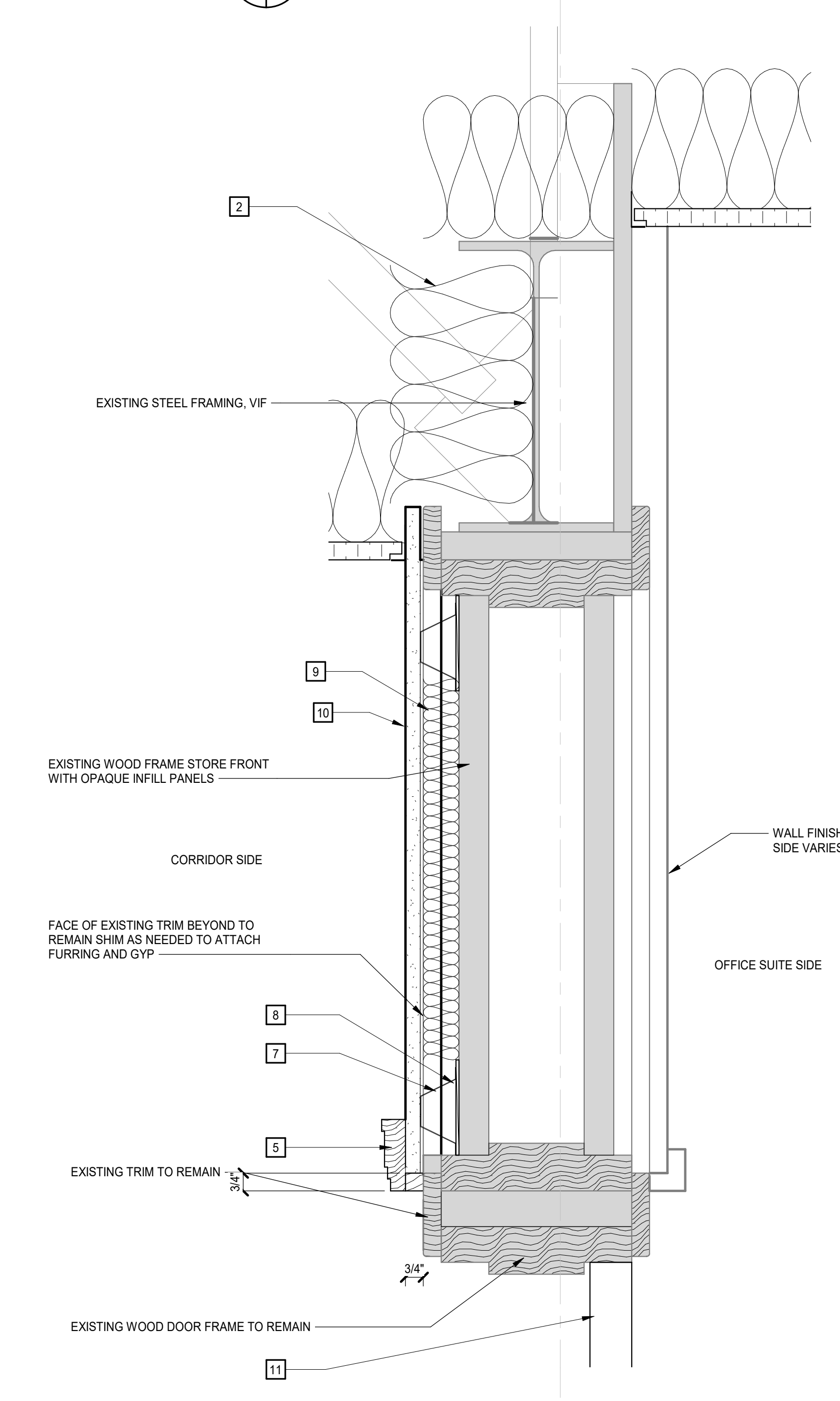
5 PLAN DETAIL
 A2.1.2 | A2.3.2 | 1 1/2" = 1'-0"



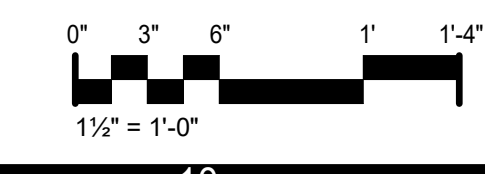
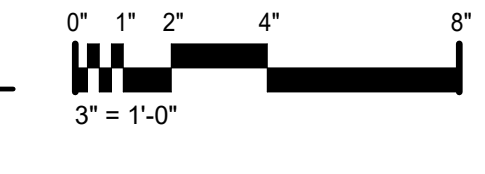
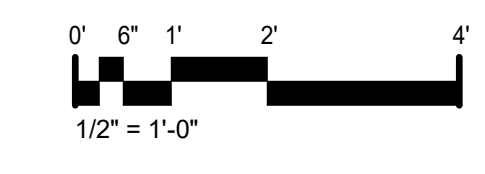
4 PLAN DETAIL
 A2.1.2 | A2.3.2 | 1 1/2" = 1'-0"



3 LEVEL 2 DOOR AND WALL INFILL AT WOMENS TOILET
 A2.3.1 | A2.3.2 | 1 1/2" = 1'-0"



1 HEAD DETAIL EXISTING FRAME TO REMAIN
 A2.2.2 | A2.3.2 | 3" = 1'-0"



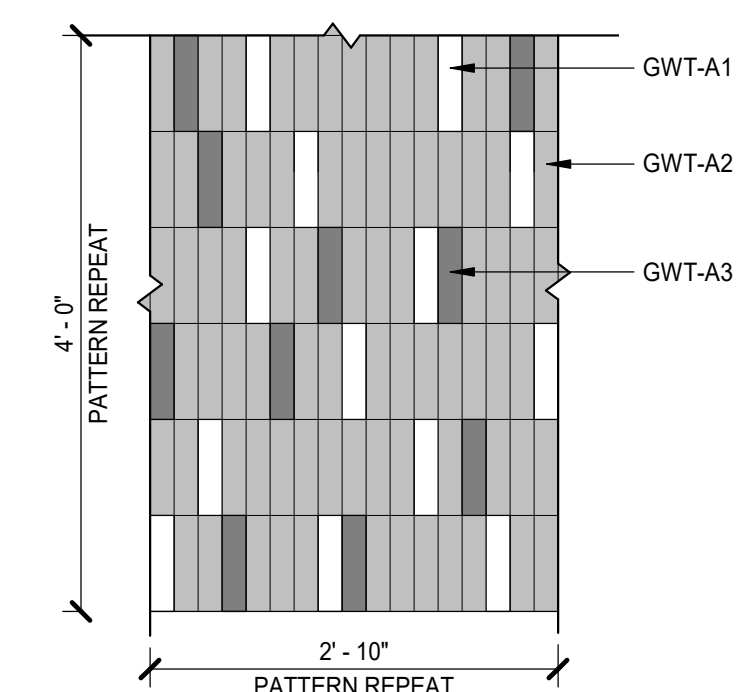
NUMBER	NAME	FLOOR	BASE	WALLS				WAINSCOT	CEILING	NOTES
				NORTH	EAST	SOUTH	WEST			
101	OFFICE	ETR/C-TILE-C	ETR	ETR	ETR	ETR	ETR	ETR		
101A	OFFICE	ETR/C-TILE-C	ETR	A-PT-6	A-PT-6	A-PT-6	A-PT-6	ETR	8	
101B	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
101C	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
102	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
102A	OFFICE	ETR/C-TILE-C	ETRWB	A-PT-6	ETR	ETR	ETR	ETR	8	
104	OFFICE	ETR/C-TILE-C	ETRWB	ETR	A-PT-6	ETR	ETR	ETR	8	
104A	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	PT		
104B	OFFICE	ETR/C-TILE-C	ETRWB	ETR	ETR	A-PT-6	ETR	ETR	8	
104C	OFFICE	ETR/C-TILE-C	ETRWB	A-PT-6	ETR	ETR	ETR	ETR	8	
104D	OFFICE	ETR/C-TILE-C	ETRWB	A-PT-6	ETR	ETR	ETR	ETR	8	
104E	STOR	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
107	IT	ETR/CONC-SLR	ETR	ETR	ETR	ETR	ETR/PT-1	ETR	6	
108	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
108A	OFFICE	ETR/C-TILE-C	ETRWB	ETR	A-PT-3	ETR	A-PT-3	ACP	8	
108B	OFFICE	ETR/C-TILE-C	ETRWB	ETR	A-PT-6	ETR	ETR	ACP	8	
108C	OFFICE	ETR/C-TILE-C	ETRWB	ETR	A-PT-6	ETR	ETR	ACP	8	
108D	MECH	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
108E	OFFICE	ETR/C-TILE-C	ETRWB	ETR	A-PT-6	ETR	ETR	ACP	8	
108F	OFFICE	ETR	ETR	ETR	A-PT-6	ETR	ETR	ACP	8	
108G	OFFICE	ETR/C-TILE-C	ETRWB	ETR	A-PT-6	ETR	ETR	ACP	8	
108H	CONFERENCE	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
109	OFFICE	ETR/C-TILE-D	ETRWB	ETR	ETR	ETRA/PT-4	ETR	ETR	8	
109A	OFFICE	ETR/C-TILE-D	ETRWB	A-PT-5	ETR	A-PT-5	A-PT-5	ETR	8	
109B	OFFICE	ETR/C-TILE-D	ETRWB	ETR	ETR	A-PT-4	ETR	ETR	8	
110	OFFICE	ETR/C-TILE-B	ETRWB	ETR	ETR	A-PT-2	ETR	ACP	8	
110A	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
110B	BREAK ROOM	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
110C	OFFICE	ETR/C-TILE-B	ETRWB	ETR	ETR	ETR	A-PT-2	ACP	8	
110D	OFFICE	ETR/C-TILE-B	ETRWB	ETR	ETR	ETR	A-PT-2	ACP	8	
110E	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
110F	OFFICE	ETR/C-TILE-B	ETRWB	ETR	ETR	ETR	A-PT-2	ACP	8	
110G	OFFICE	ETR/C-TILE-B	ETRWB	ETR	ETR	ETR	A-PT-2	ACP	8	
110H	CHANCELORES OFFICE	ETR/C-TILE-B	ETRWB	ETR/PT-1	ETR	ETR	ETR	ETR	8	
110I	CHANCELORES CONFERENCE	ETR/C-TILE-E	ETRWB	ETR	ETR	ETR	ETR/PT-1	ETR	8	
110J	UNISEX RR	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
111	OFFICE	ETR/C-TILE-D	ETRWB	ETR	ETR	ETRA/PT-4	ETR	ETR	8	
111A	OFFICE	ETR/C-TILE-D	ETRWB	A-PT-5	ETR	A-PT-5	A-PT-5	ETR	8	
111B	OFFICE	ETR/C-TILE-D	ETRWB	ETR	ETR	A-PT-4	ETR	ETR	8	
111F	VICE CHANCELLOR	ETR/C-TILE-D	ETRWB	ETR	ETRA/A-PT-3	ETR	ETRA/A-PT-3	ETR	8	
114	STORAGE	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
120	OFFICE	ETR	ETRWB	A-PT-3	ETR	ETR	ETR	ACP	8	
120A	OFFICE	ETR/C-TILE-D	ETRWB	ETR	ETR	A-PT-3	ETR	ACP	8	
120B	OFFICE	ETR/C-TILE-D	ETRWB	ETR	ETR	ETR	A-PT-6	ETR	8	
120C	OFFICE	ETR/C-TILE-D	ETRWB	A-PT-5	ETR	A-PT-5	ETR	ACP	8	
C100	CORR	C-TILE-A	RB-A	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	A-PT-2	ACP	1, 2, 3, 4, 6, 7
C101	CORR	C-TILE-A	RB-A	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	A-PT-2	ACP/GB PT	1, 2, 3, 4, 6, 7, 10
C102	CORR	C-TILE-A	RB-A	PT-1	PT-1	PT-1	PT-1	ACP/GB PT	4	
C103	CORR	C-TILE-A	RB-A	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	ACP/GB PT	1, 2, 3, 4, 6, 7, 10	
C104	CORR	C-TILE-A	RB-A	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	A-PT-2	ACP	1, 2, 3, 4, 7
C105	VEST.	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
ELV10	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
H100	HSKPNG	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
M100	MECH	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
R100	MENS	P-TILE	GBT-A	PT-1	GBT-A	GBT-A	PT-1	GB PT	4, 5	
R101	WOMENS	P-TILE	GBT-A	GBT-A/PT-1	GBT-A/PT-1	GBT-A/PT-1	GBT-A/PT-1	ACP	4, 5, 6	
S100	STAIR	C-TILE-A	RB-A	PT-1	PT-1	PT-1	PT-1	ETR	4, 6	
S101	STAIR	C-TILE-A	RB-A	PT-1	PT-1	PT-1	PT-1	ETR	4, 6	
V100	ENTRY	C-TILE-A	RB-A	PT-1	PT-1	PT-1	PT-1	ETR	4	
V101	ENTRY	C-TILE-A	RB-A	PT-1	PT-1	PT-1	PT-1	ETR	4	
200	HOUSE KEEPING	ETR	ETR	ETR	ETR	ETR	ETR	GB PT		
201	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
201A	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
201B	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
201C	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
201D	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
202	ADMIN SHARED SPACE	C-TILE-A	RB-B/ETR	PT-1	PT-1	PT-1	PT-1	ACP	4	
202A	STORAGE	ETR	RB-B/ETR	ETR	A-PT-4	ETR	ETR	ACP		
202B	OFFICE	ETR	RB-B/ETR	ETR	A-PT-2	ETR	ETR	ACP		
202C	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
202D	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
202E	OFFICE	C-TILE-A	RB-B/ETR	PT-1	PT-1	PT-1	PT-1	ACP	4	
203	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
203A	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
203B	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
204	DATA	CONC-SLR	RB	PT-1	PT-1	PT-1	PT-1	ACP		
205	SOFT SEAT	C-TILE-A	RB-A	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	CRA/PT-2	ACP	1, 2, 3, 4, 7
206	COMBINED BREAK/ PRINTING/ MEETING	LVT	RB-B	GBT-B/PT-1	PT-1	PT-1	PT-1	ACP	4, 11	
207	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
207A	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
207B	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
207C	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
207D	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
207E	BREAK	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
208	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
208A	VC OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
208B	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
208C	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
208D	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
208E	HVAC	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
211	CONFERENCE ROOM	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
215	BOARD ROOM	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
217	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
217A	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
217B	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
217C	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ACP		
217D	CLOSET	ETR	ETR	ETR	ETR	ETR	ETR	GB PT		
C200	CORR	C-TILE-A	RB-A	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	PT-1/A-PT-2	CRA/PT-2	ACP/GB PT	1, 2, 3, 4, 7
E2	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
HK201	ATTIC	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
R200	WOMEN RR	P-TILE	GBT-A	GBT-A	GBT-A/PT-1	GBT-A/PT-1	GBT-A/PT-1	GB PT	4, 5	
R201	MEN RR	P-TILE	GBT-A	GBT-A/DFW	PT-1	GBT-A/PT-1	GBT-A/PT-1	GB PT	4, 5, 9	
S200	STAIR	C-TILE-A	RB-A	PT-1	PT-1	PT-1	PT-1	ETR	4, 6	
S201	STAIR	C-TILE-A	RB-A	PT-1	PT-1	PT-1	PT-1	ETR	4, 6	

- NOTE:
- FIELD VERIFY EXISTING WAINSCOT HEIGHT ON FIRST FLOOR. NEW WAINSCOT FINISH ON SECOND FLOOR TO MATCH FIRST FLOOR EXISTING HEIGHT.
 - CHAIR RAIL PROFILE TO MATCH EXISTING CHAIR RAIL PROFILE ON FIRST FLOOR.
 - FIELD VERIFY EXISTING CHAIR RAIL HEIGHT ON FIRST FLOOR. CHAIR RAIL ON SECOND FLOOR TO MATCH FIRST FLOOR EXISTING HEIGHT.
 - REFER TO SPECIFICATION FOR FLOOR PATTERNS.
 - REFER TO TYPICAL ELEVATION ON A3.0.0 FOR TILE PATTERN.
 - PATCH AND REPAIR WALLS TO LIKE-NEW CONDITION.
 - REFER TO ELEVATION 5/A8.1 FOR EXTENTS OF CORRIDOR ACCENT PAINT. LEVEL 1 CORRIDOR ACCENT PAINT TO MATCH EXTENTS OF EXISTING ACCENT PAINT.
 - PATCH AND REPLACE TRIM. PATCH AND REPAIR WALLS TO LIKE-NEW CONDITION. MATCH EXISTING BASE. MATCH EXISTING DOOR AND WINDOW TRIM AND PAINT. PAINT FULL EXTENT OF WALL AFTER PATCHING.
 - REFER TO SPECIFICATION FOR DECORATIVE WINDOW FILM.
 - REFER TO SPECIFICATION FOR CROWN MOLDING.
 - REFER TO ELEVATION 1/A8.1 FOR TILE PATTERN.

FINISH SCHEDULE GENERAL NOTES

- FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT SURFACE FINISH.
- PROVIDE SAME FINISHES AS THE ADJACENT SPACE IN ALCOVES AND CONTINUOUS SPACES WITHOUT DESIGNATED SPACE NUMBERS.
- CASEWORK FINISHES ARE NOT NOTED IN THE FINISH SCHEDULE. REFER TO CASEWORK ELEVATIONS AND SPECIFICATIONS FOR MATERIALS AND FINISHES.
- DIRECTIONAL WALL FINISH INDICATORS (NORTH, EAST, SOUTH, WEST) REFER TO THE "PLAN" NORTH ORIENTATION.
- BULKHEADS AND SOFFITS MAY NOT BE INDICATED IN FINISH SCHEDULES. REFER TO RCP DETAILS, AND OTHER DOCUMENTS FOR EXTENT.
- PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR SLAB-ON-GRADE AND VERTICAL ELEMENT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION.
- REFER TO SPECIFICATIONS FOR INFORMATION ON FINISH FIRE CLASSIFICATION RATING.
- REFER TO FINISH PLAN FOR EXTENTS OF FINISHES.

FINISH PATTERN LEGEND



TYPICAL RESTROOM TILE PATTERN

3/4" = 1'-0"



PROJECT NO:	020589
DATE:	DECEMBER 11, 2023
REVISIONS	
DATE	DESCRIPTION

FINISH PLAN LEGEND	
WALL FINISH EXTENTS	FLOOR FINISH TRANSITION, CHANGE OF MATERIAL
C-TILE A	P-TILE A
C-TILE B	LVT
C-TILE C	CONC-SLR
C-TILE D	ETR
C-TILE E	

*UNO, HATCHES DO NOT INDICATE FLOOR INSTALLATION PATTERN, METHOD OR DIRECTION. HATCHES INDICATE START AND STOP OF FINISHES ONLY.

FINISH PLAN GENERAL NOTES

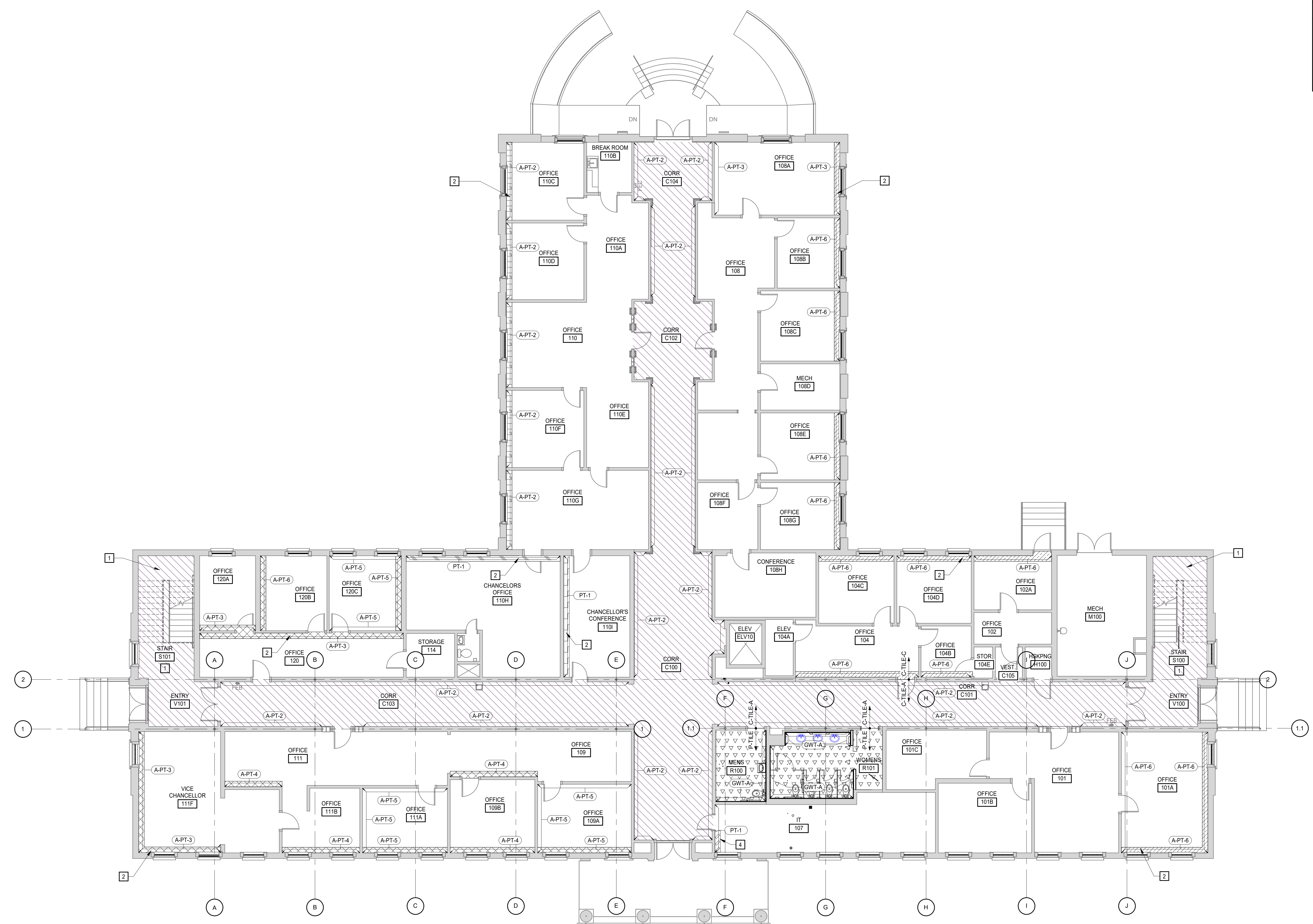
A. REFER TO A0.1 FOR ABBREVIATION LEGEND.

B. WHERE ONE FINISH IS LISTED ON ALL WALLS OF THE ROOM, THE FINISH PLANS DO NOT SHOW EXTENT OF FINISH. FINISH PLANS AND ELEVATIONS SHOW EXTENT OF MATERIALS WHERE FINISH SCHEDULE LISTS MULTIPLE FINISHES IN ONE ROOM.

C. WHERE DIFFERENT FLOORING MATERIALS TRANSITION WITHIN AN OPENING, THE TRANSITION SHALL OCCUR AT THE CENTER OF THE OPENING. UNO, FOR OPENINGS THAT INCLUDE A DOOR, THE TRANSITION SHALL ALIGN UNDER THE DOOR.

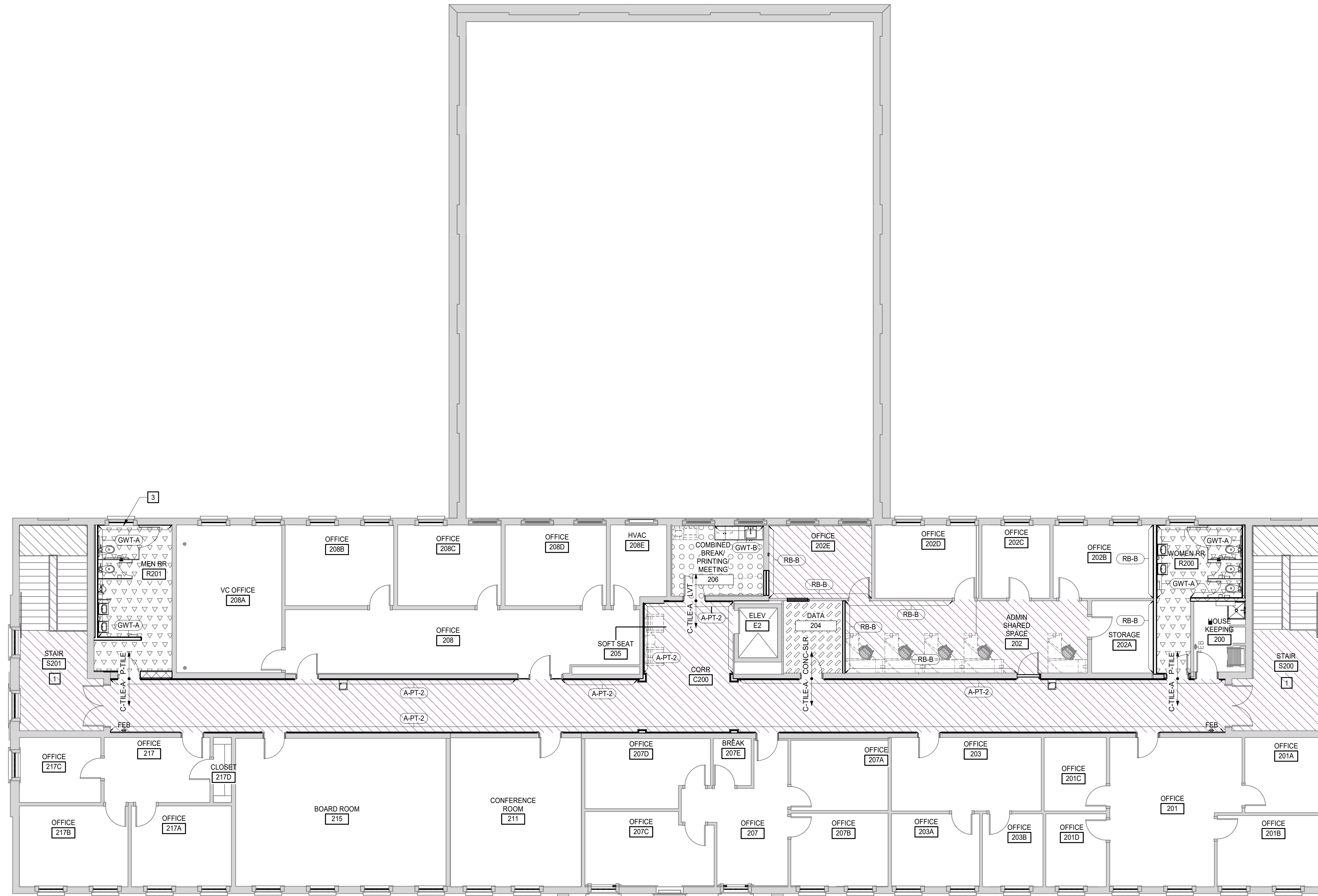
D. DIRECTIONAL WALL FINISH INDICATORS (NORTH, SOUTH, EAST, WEST) REFER TO THE PLAN NORTH ORIENTATION.

- FINISH PLAN KEYNOTES**
- REPRESENTED BY
- APPLIES TO DRAWINGS A3.0.1 - A3.0.n
- 1 NEW FLOORING ON LANDINGS AND FLOOR LEVEL ONLY
 - 2 NEW CARPET IN HATCHED EXTENTS ONLY, TYPICAL
 - 3 DECORATIVE WINDOW FILM
 - 4 EXTENTS OF CONCRETE TO MATCH EXTENTS OF REMOVED MECHANICAL UNIT



FINISH PLAN - FIRST FLOOR
 1/8" = 1'-0"

FINISH PLAN - SECOND FLOOR
1/8" = 1'-0"



FINISH PLAN LEGEND

	WALL FINISH EXTENTS		FLOOR FINISH TRANSITION, CHANGE OF MATERIAL
	C-TILE A		P-TILE A
	C-TILE B		LVT
	C-TILE C		CONC-SLR
	C-TILE D		ETR
	C-TILE E		

*UNO, HATCHES DO NOT INDICATE FLOOR INSTALLATION PATTERN, METHOD OR DIRECTION. HATCHES INDICATE START AND STOP OF FINISHES ONLY.

FINISH PLAN GENERAL NOTES

A. REFER TO A0.1 FOR ABBREVIATION LEGEND.

B. WHERE ONE FINISH IS LISTED ON ALL WALLS OF THE ROOM, THE FINISH PLANS DO NOT SHOW EXTENT OF FINISH. FINISH PLANS AND ELEVATIONS SHOW EXTENT OF MATERIALS WHERE FINISH SCHEDULE LISTS MULTIPLE FINISHES IN ONE ROOM.

C. WHERE DIFFERENT FLOORING MATERIALS TRANSITION WITHIN AN OPENING, THE TRANSITION SHALL OCCUR AT THE CENTER OF THE OPENING, UNO. FOR OPENINGS THAT INCLUDE A DOOR, THE TRANSITION SHALL ALIGN UNDER THE DOOR.

D. DIRECTIONAL WALL FINISH INDICATORS (NORTH, SOUTH, EAST, WEST) REFER TO THE "PLAY NORTH ORIENTATION."

FINISH PLAN KEYNOTES

REPRESENTED BY

APPLIES TO DRAWINGS A3.0.1 - A3.0.n

- NEW FLOORING ON LANDINGS AND FLOOR LEVEL ONLY
- NEW CARPET IN HATCHED EXTENTS ONLY, TYPICAL
- DECORATIVE WINDOW FILM
- EXTENTS OF CONCRETE TO MATCH EXTENTS OF REMOVED MECHANICAL UNIT



PROJECT NO:	620589
DATE:	DECEMBER 11, 2023
REVISIONS	
DATE	DESCRIPTION

DOOR SCHEDULE

NUMBER	DOOR		DOOR		SIGNAGE TYPE	DOOR GLAZING		TYPE	NUMBER	FRAME				HDWR	FIRE RATING	SIGNAGE	NOTES
	TYPE	SIZE (NOMINAL)	MATL	LOUVER		GLAZING TYPE	TYPE			SECTIONS	HEAD DETAIL	JAMB DETAIL	JAMB DETAIL				
R101	F	3'-0" x 6'-10" x 1'3/4"	WD	16"X16"	3A	--	EX	--	EX	EX	EX	EX	05		3A		
200	RP6	3'-0" x 6'-10" x 1'3/4"	WD		2	--	EX	--	EX	1/A2.3.2	2/A2.3.2	2/A2.3.2	03		2		
201	HG	3'-0" x 6'-10" x 1'3/4"	WD		2	1	EX	--	EX	1/A2.3.2	2/A2.3.2	2/A2.3.2	01		2		
202	HG	3'-0" x 6'-10" x 1'3/4"	WD		2	1	EX	--	EX	1/A2.3.2	2/A2.3.2	2/A2.3.2	01		2		
202E	F	3'-0" x 6'-8" x 1'3/4"	WD		1		STL	1	A	1	1	1	01-A		1		
203	HG	3'-0" x 6'-10" x 1'3/4"	WD		2	1	EX	--	EX	1/A2.3.2	2/A2.3.2	2/A2.3.2	01		2		
204	RP6	3'-0" x 6'-10" x 1'3/4"	WD		2		EX	--	EX	1/A2.3.2	2/A2.3.2	2/A2.3.2	03		2		
206	HG	3'-0" x 6'-10" x 1'3/4"	WD		2	1	EX	--	EX	1/A2.3.2	2/A2.3.2	2/A2.3.2	04		2		
207	HG	3'-0" x 6'-10" x 1'3/4"	WD		2	1	EX	--	EX	1/A2.3.2	2/A2.3.2	2/A2.3.2	01		2		
208	RP6	3'-0" x 6'-10" x 1'3/4"	WD		2		WD	1	A	1/A2.3.2	8/A2.3.2	8/A2.3.2	01		2		
208.1	HG	3'-0" x 6'-10" x 1'3/4"	WD		2	1	EX	--	EX	1/A2.3.2	2/A2.3.2	2/A2.3.2	01		2		
211	HG	3'-0" x 6'-10" x 1'3/4"	WD		2	1	EX	--	EX	1/A2.3.2	2/A2.3.2	2/A2.3.2	02		2		
215	HG	3'-0" x 6'-10" x 1'3/4"	WD		2	1	EX	--	EX	1/A2.3.2	2/A2.3.2	2/A2.3.2	02		2		
217	HG	3'-0" x 6'-10" x 1'3/4"	WD		2	1	EX	--	EX	1/A2.3.2	2/A2.3.2	2/A2.3.2	01		2		
R200	RP6	3'-0" x 6'-10" x 1'3/4"	WD		3A		STL	1	A	5/A2.3.1	3/A2.3.2	3/A2.3.2	05		3A		
R201	RP6	3'-0" x 6'-10" x 1'3/4"	WD		3B		STL	1	A	5/A2.3.1	4/A2.3.2	4/A2.3.1	05		3B		

NOTE:

1.

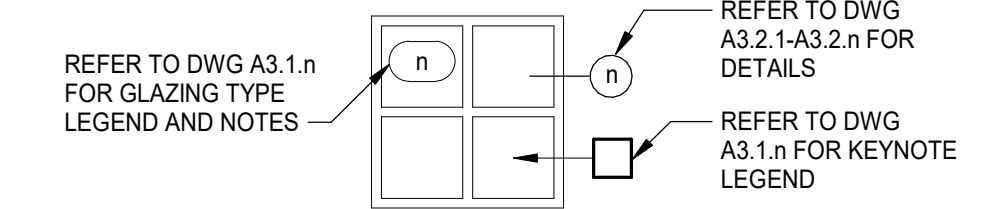
DOOR, FRAME AND GLAZING TYPE KEYNOTES

REPRESENTED BY [n]
APPLIES TO DRAWINGS A3.1.1 - A3.1.n

GENERAL NOTES

- A. UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB AND SILL CONDITIONS REFER TO DRAWINGS A3.2.1 - A3.2.n.
- B. DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G. SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.
- C. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G. ELEVATIONS).
- D. VERIFY ALL EXISTING DOOR OPENINGS IN FIELD.

GENERAL NOTES



GLAZING TYPES

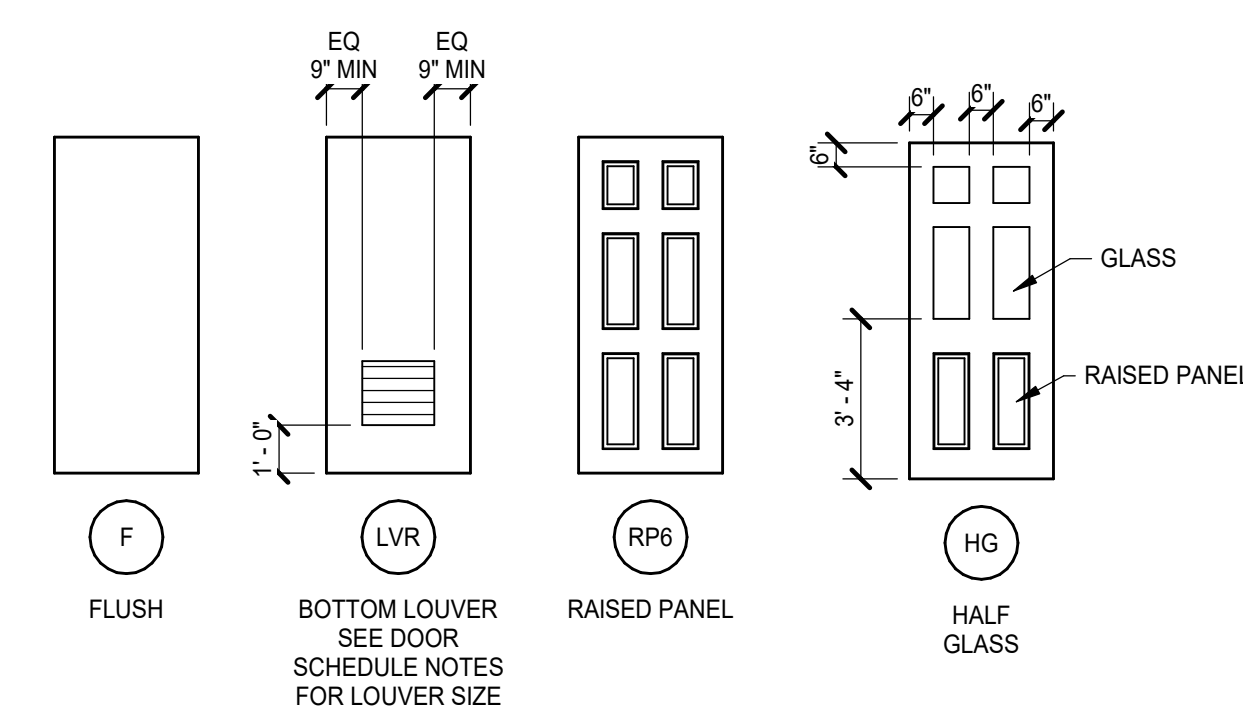
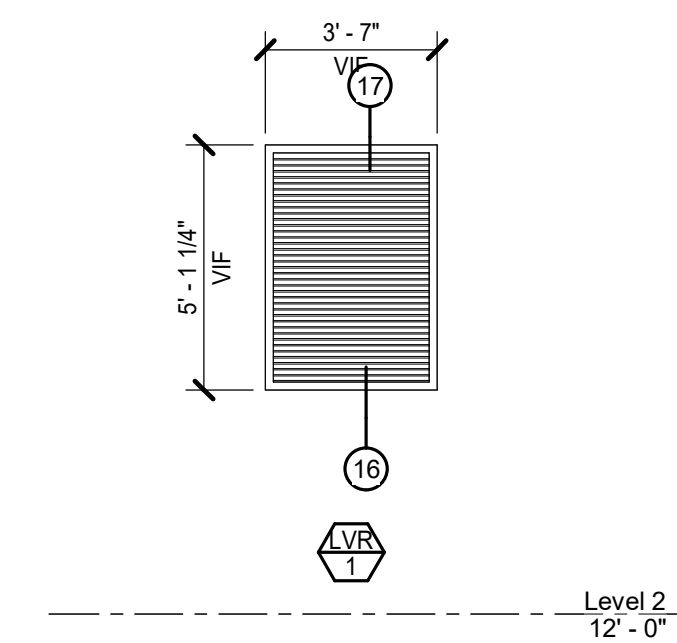
REPRESENTED BY [n]

- 1. 1/4" CLEAR FULLY TEMPERED SAFETY GLASS
- 2. 1" CLEAR INSULATING LAMINATED SAFETY GLASS

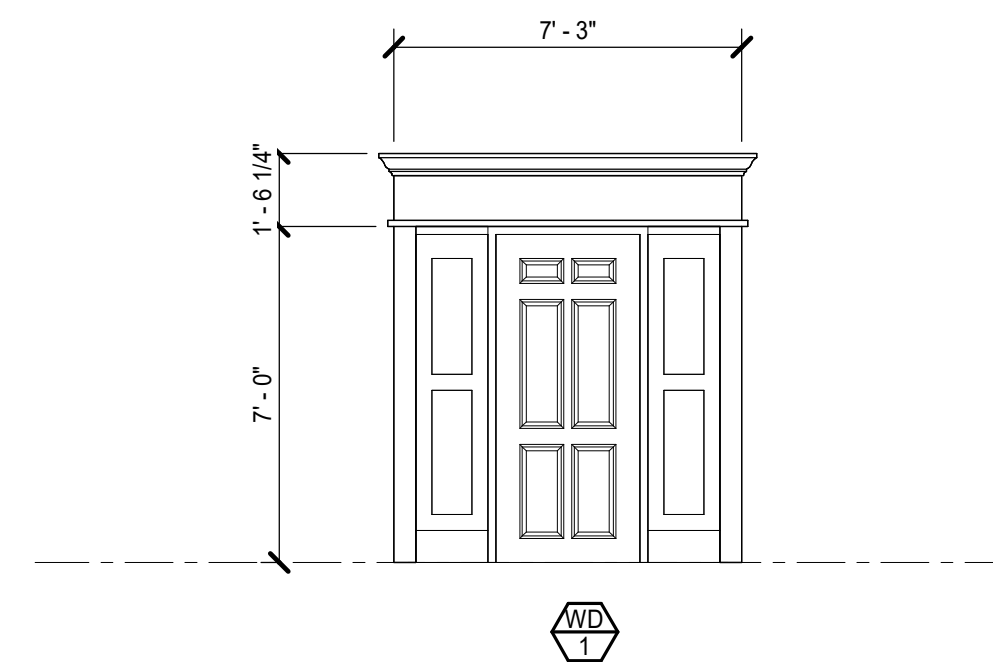
- NOTES:
- 1. ALL GLAZING IN INTERIOR FRAMES SHALL BE TYPE 1 UNO
 - 2. ALL GLAZING IN EXTERIOR FRAMES SHALL BE TYPE 2 UNO
 - 3. GLAZE ALL OPENINGS IN FRAMES UNLESS SPECIFICALLY INDICATED OTHERWISE
 - 4. ALL GLAZING SHALL BE SAFETY GLASS UNLESS INDICATED OTHERWISE

LOUVER TYPES

1/4" = 1'-0"

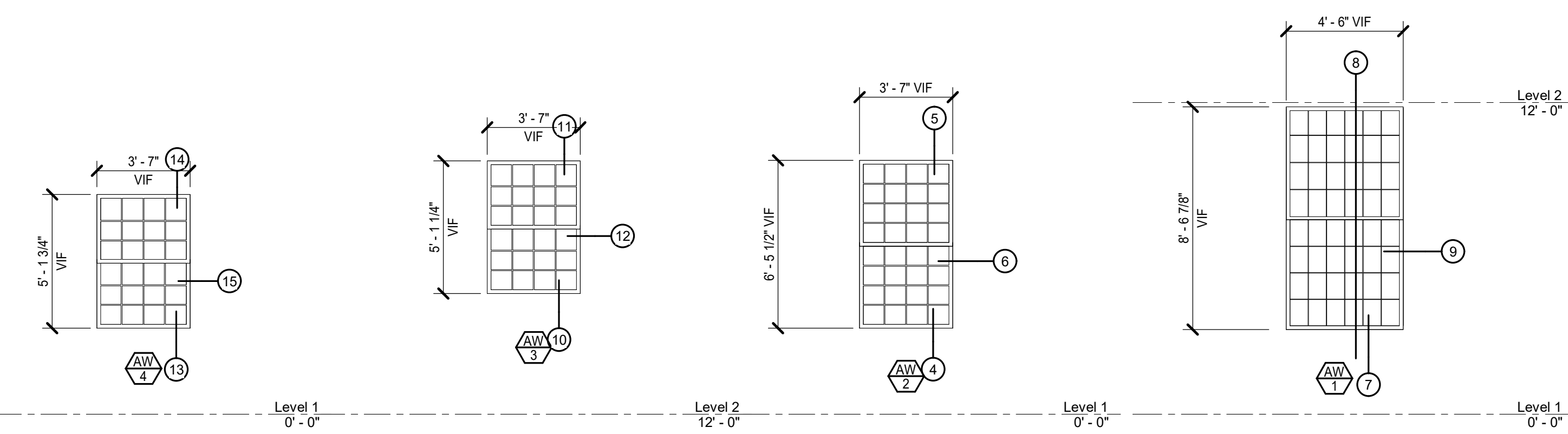


DOOR PANEL TYPES
NO SCALE



ALUMINUM WINDOW TYPES

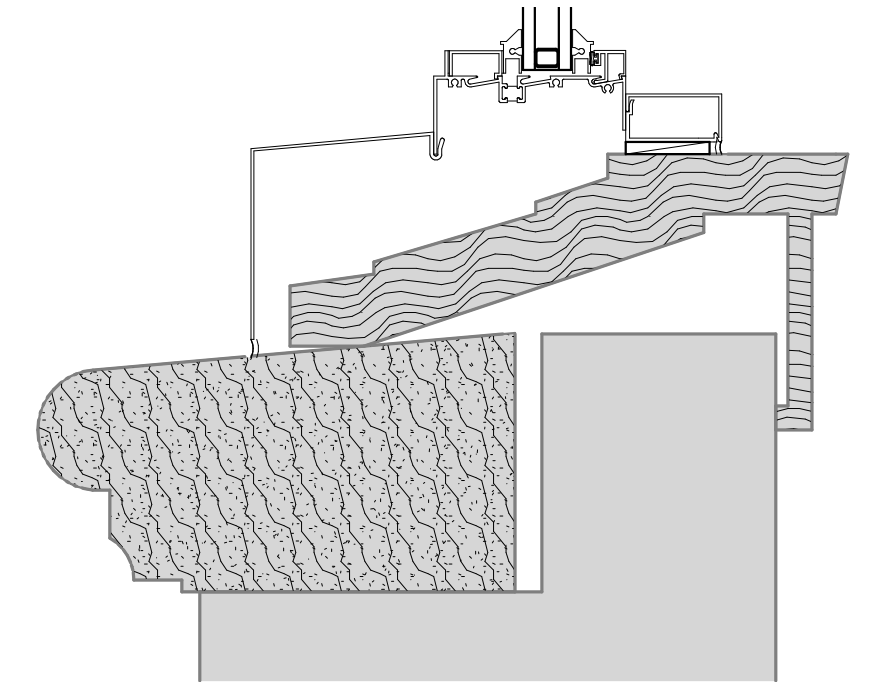
1/4" = 1'-0"



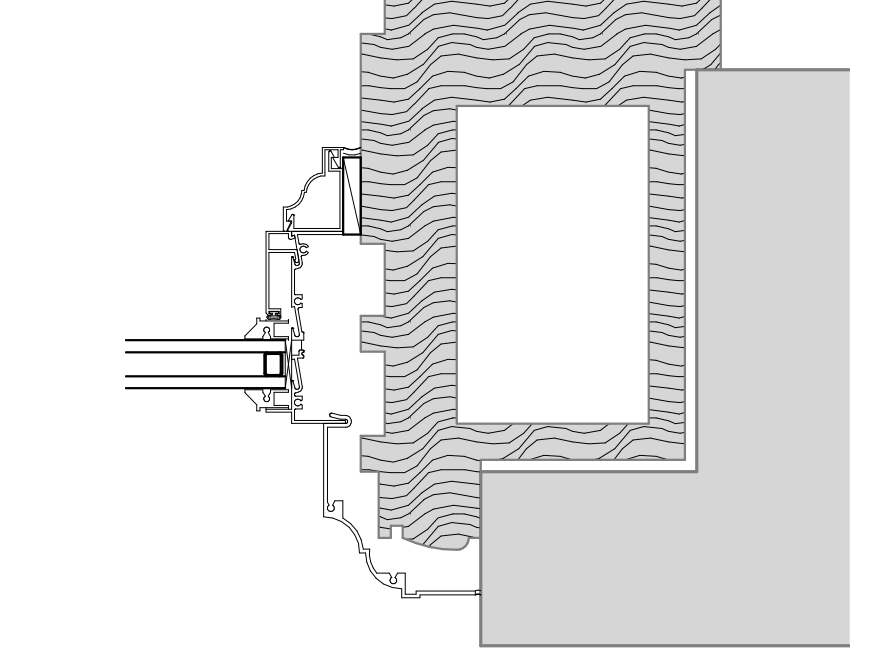
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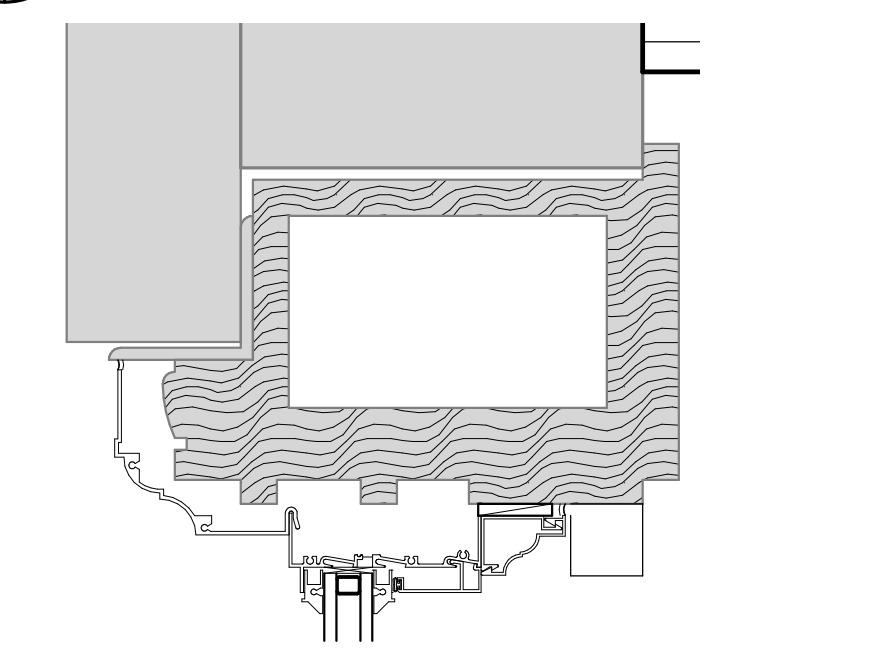
14 AW4 HEAD NOTE: REFER TO 5/A3.2.1 FOR NOTES
A3.1.1 | A3.2.1 3" = 1'-0"



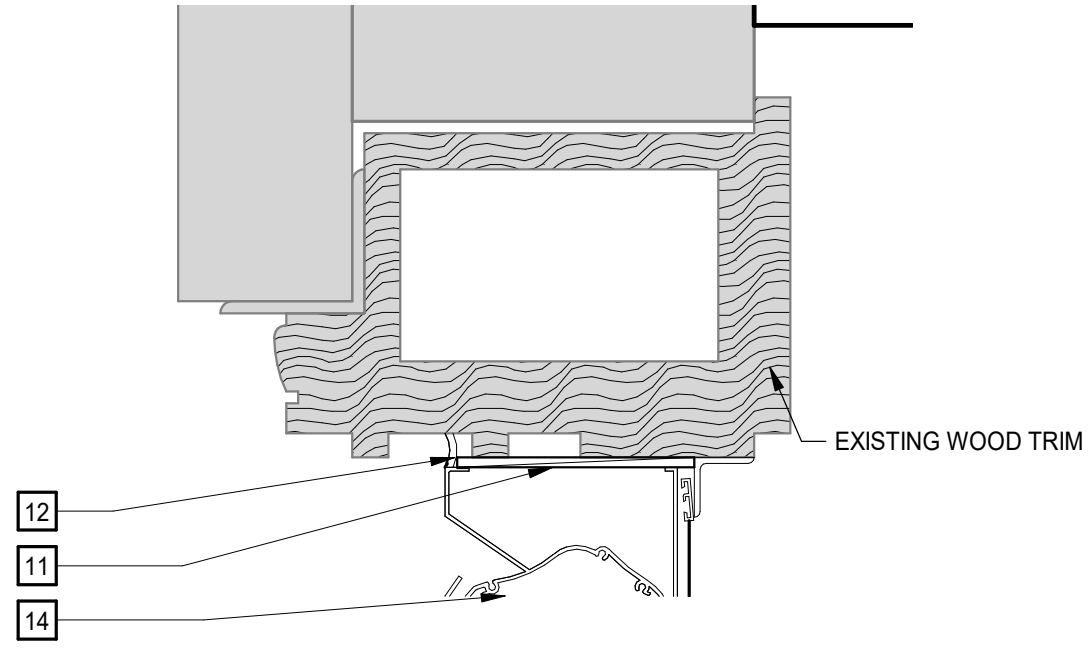
13 AW4 SILL NOTE: REFER TO 4/A3.2.1 FOR NOTES
A3.1.1 | A3.2.1 3" = 1'-0"



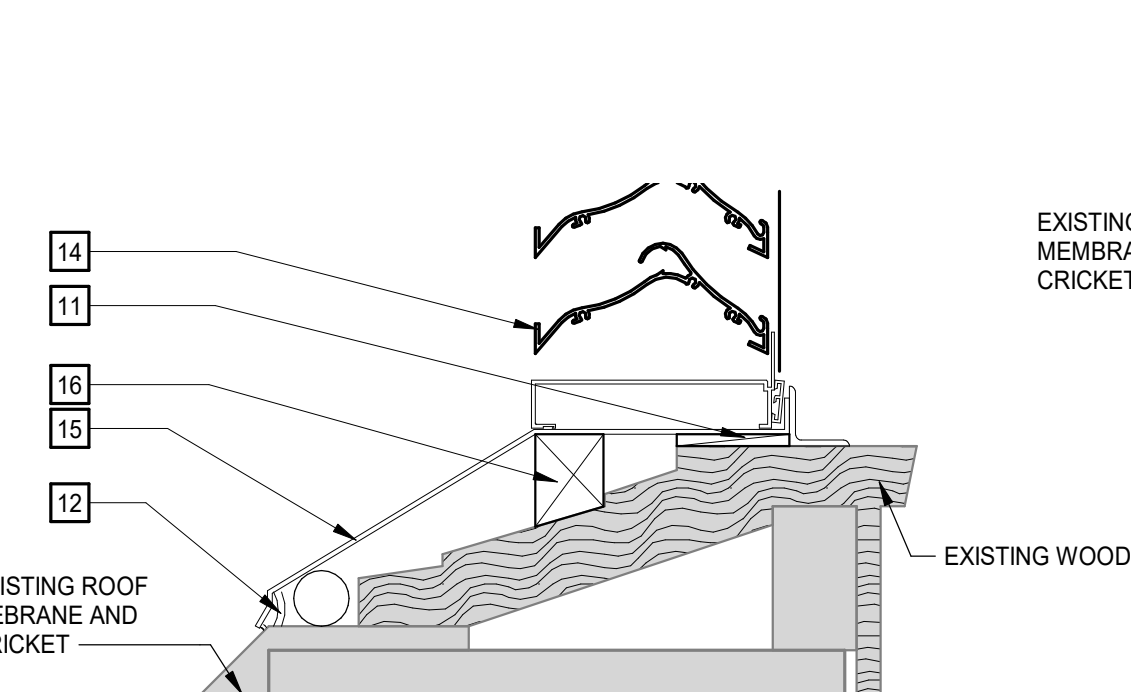
12 AW3 JAMB NOTE: REFER TO 5/A3.2.1 FOR NOTES
A3.1.1 | A3.2.1 3" = 1'-0"



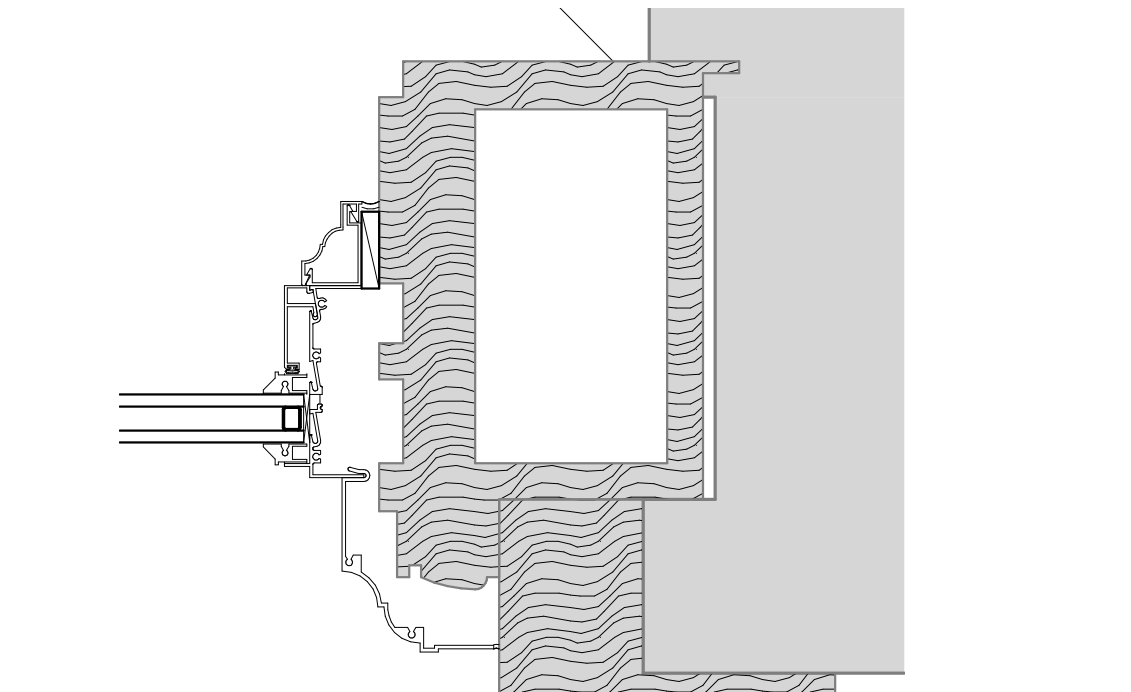
11 AW3 HEAD NOTE: REFER TO 5/A3.2.1 FOR NOTES
A3.1.1 | A3.2.1 3" = 1'-0"



17 LOUVER HEAD/JAMB
A3.1.1 | A3.2.1 3" = 1'-0"



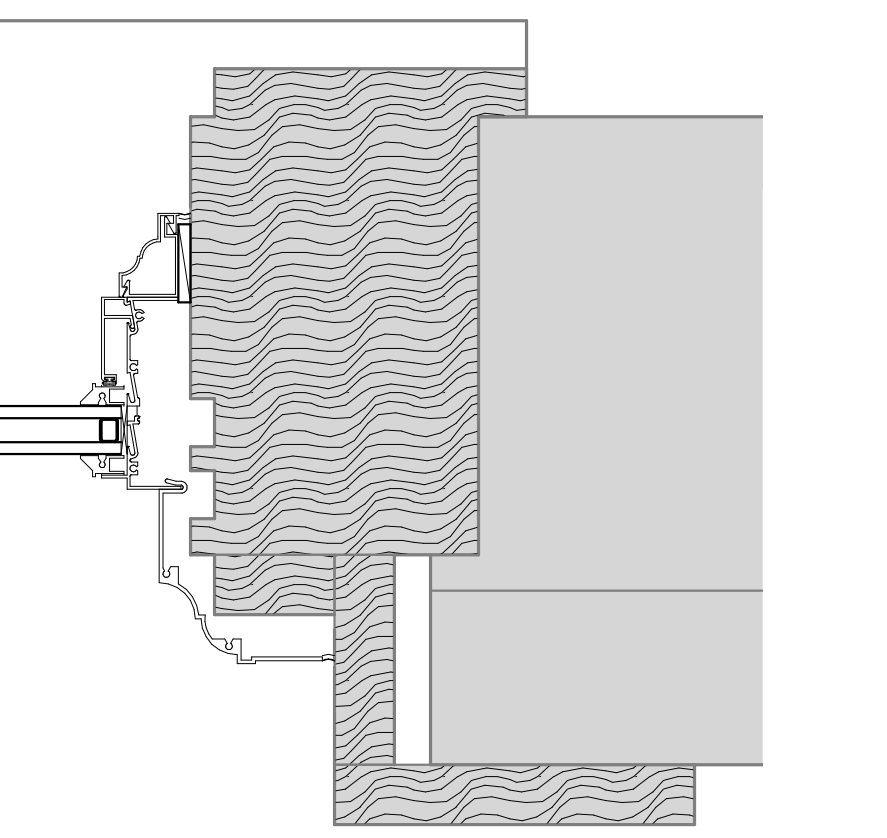
16 LOUVER SILL
A3.1.1 | A3.2.1 3" = 1'-0"



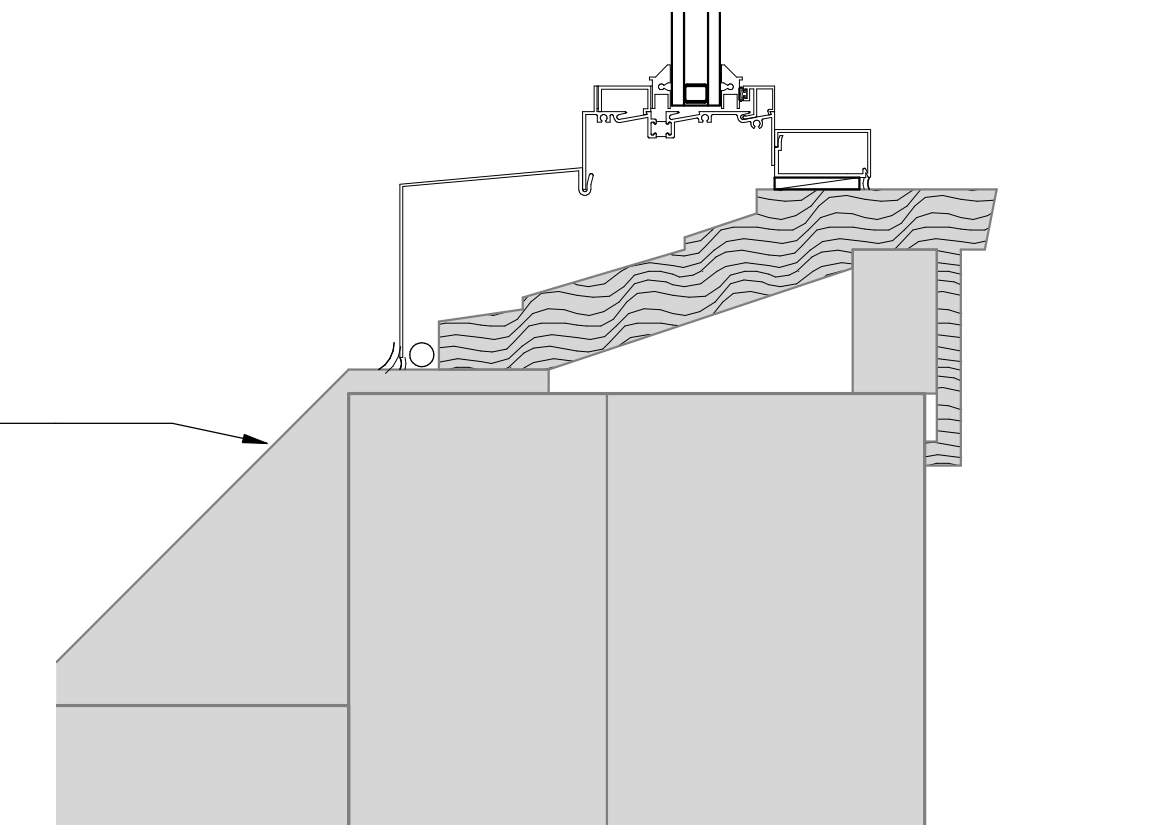
15 AW4 JAMB NOTE: REFER TO 5/A3.2.1 FOR NOTES
A3.1.1 | A3.2.1 3" = 1'-0"



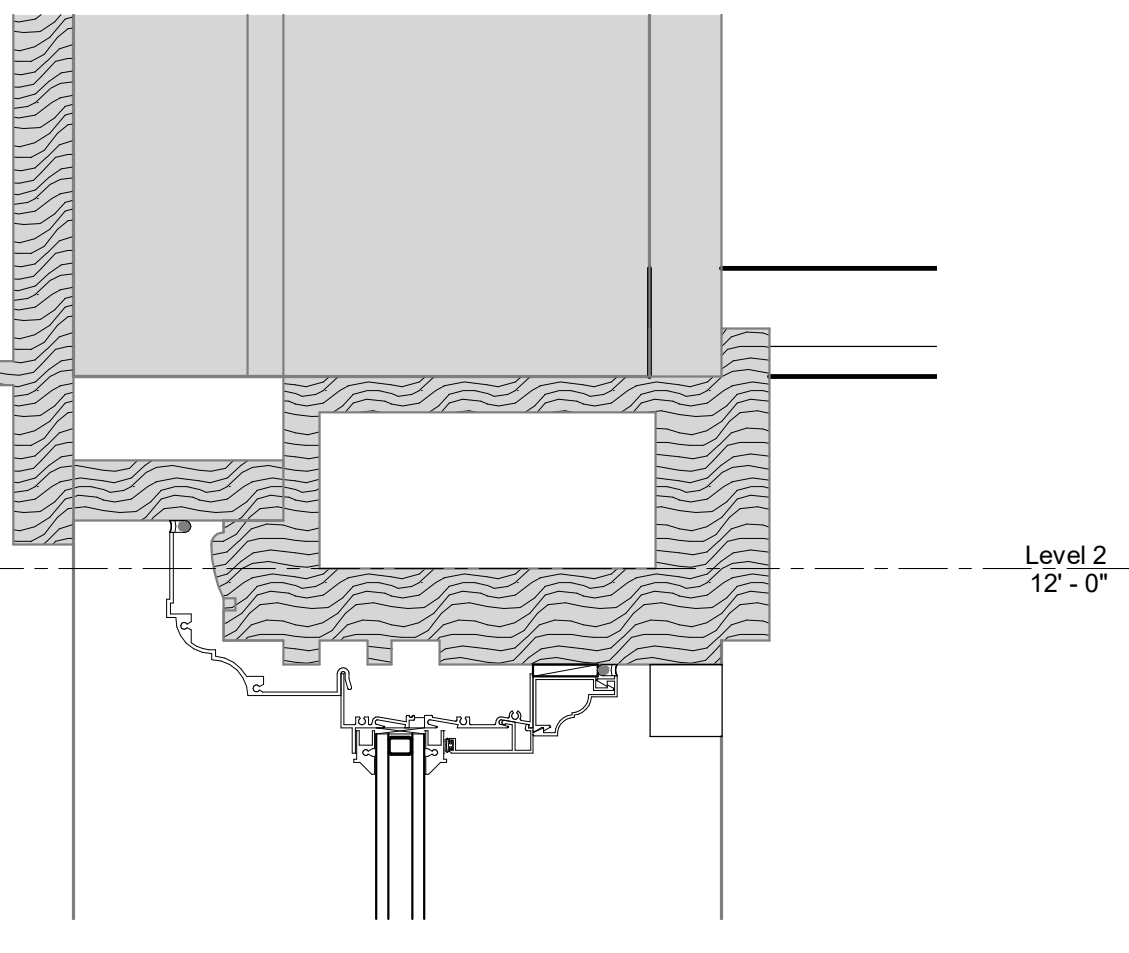
9 JAMB DETAIL NOTE: REFER TO 5/A3.2.1 FOR NOTES
A3.1.1 | A3.2.1 3" = 1'-0"



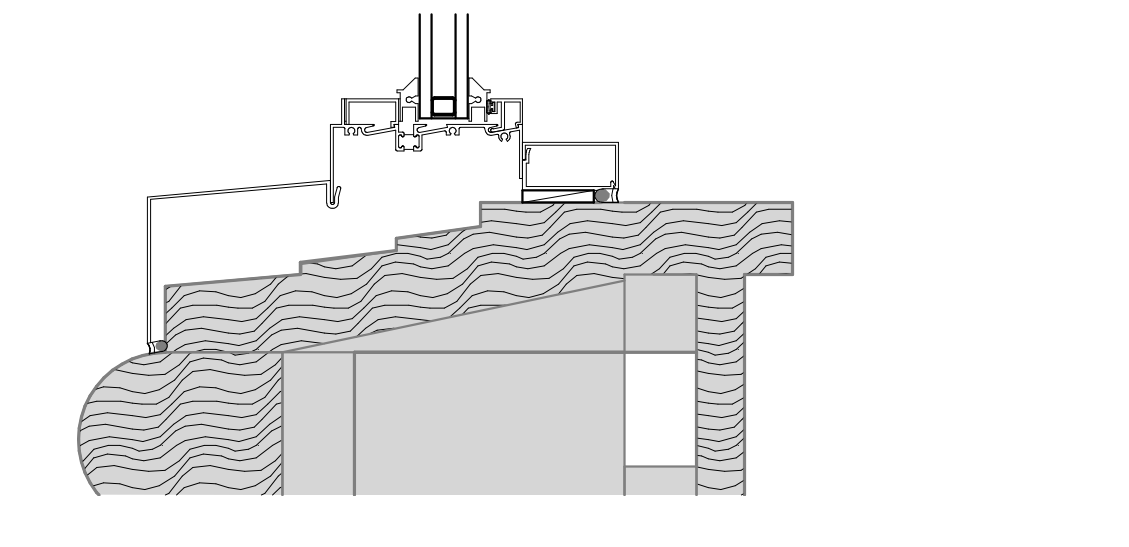
10 AW3 SILL NOTE: REFER TO 4/A3.2.1 FOR ADDITIONAL NOTES
A3.1.1 | A3.2.1 3" = 1'-0"



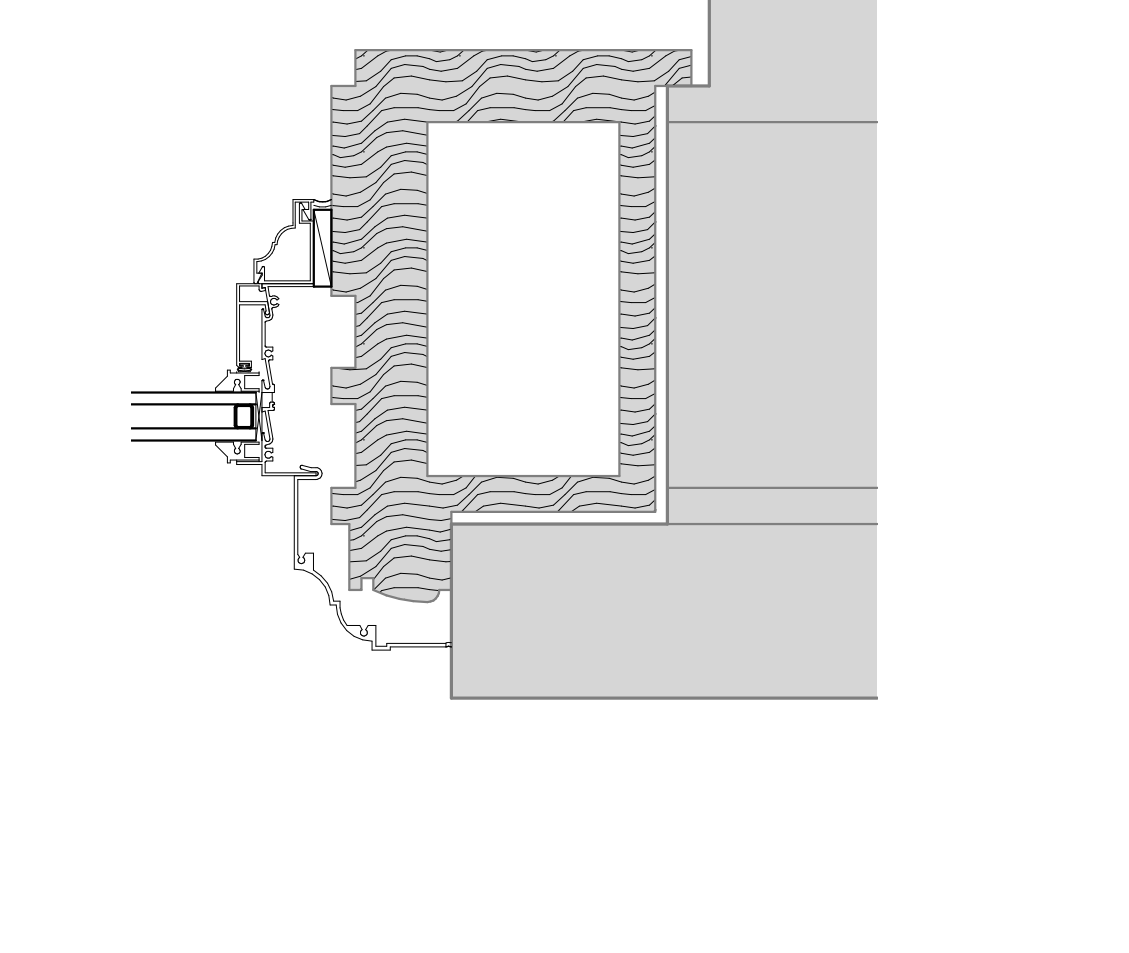
8 HEAD DETAIL NOTE: REFER TO 5/A3.2.1 FOR NOTES
A3.1.1 | A3.2.1 3" = 1'-0"



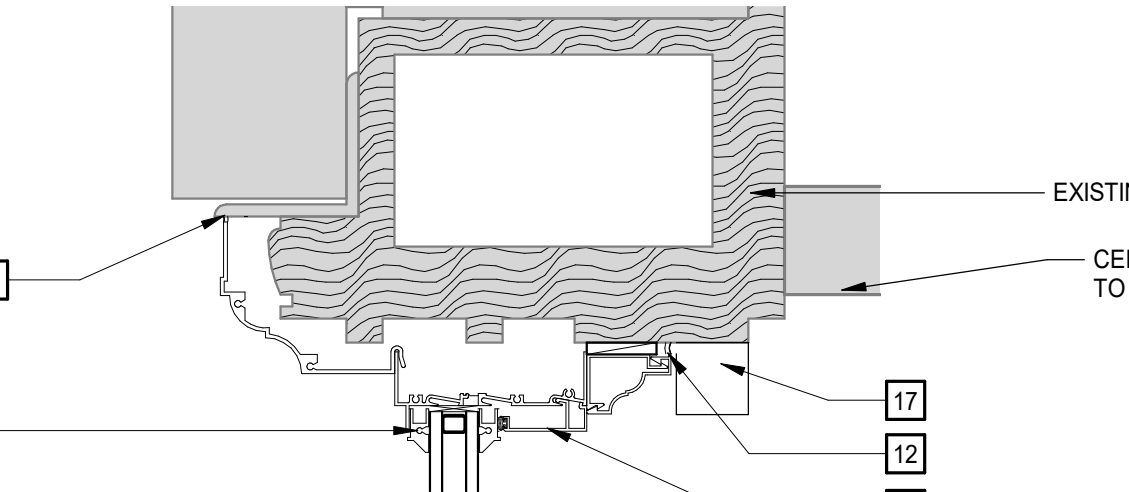
7 SILL DETAIL NOTE: REFER TO 4/A3.2.1 FOR NOTES
A3.1.1 | A3.2.1 3" = 1'-0"



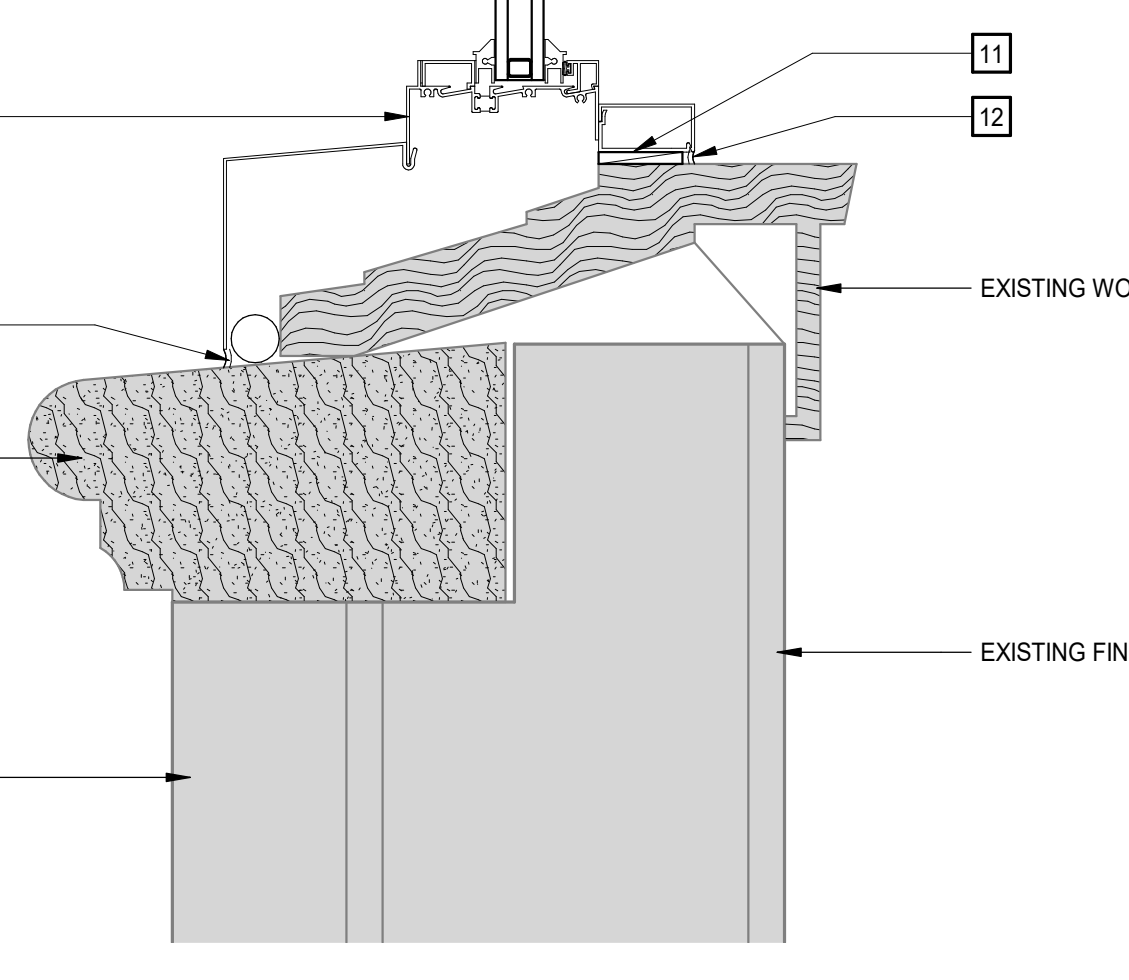
6 JAMB DETAIL NOTE: REFER TO 5/A3.2.1 FOR NOTES
A3.1.1 | A3.2.1 3" = 1'-0"



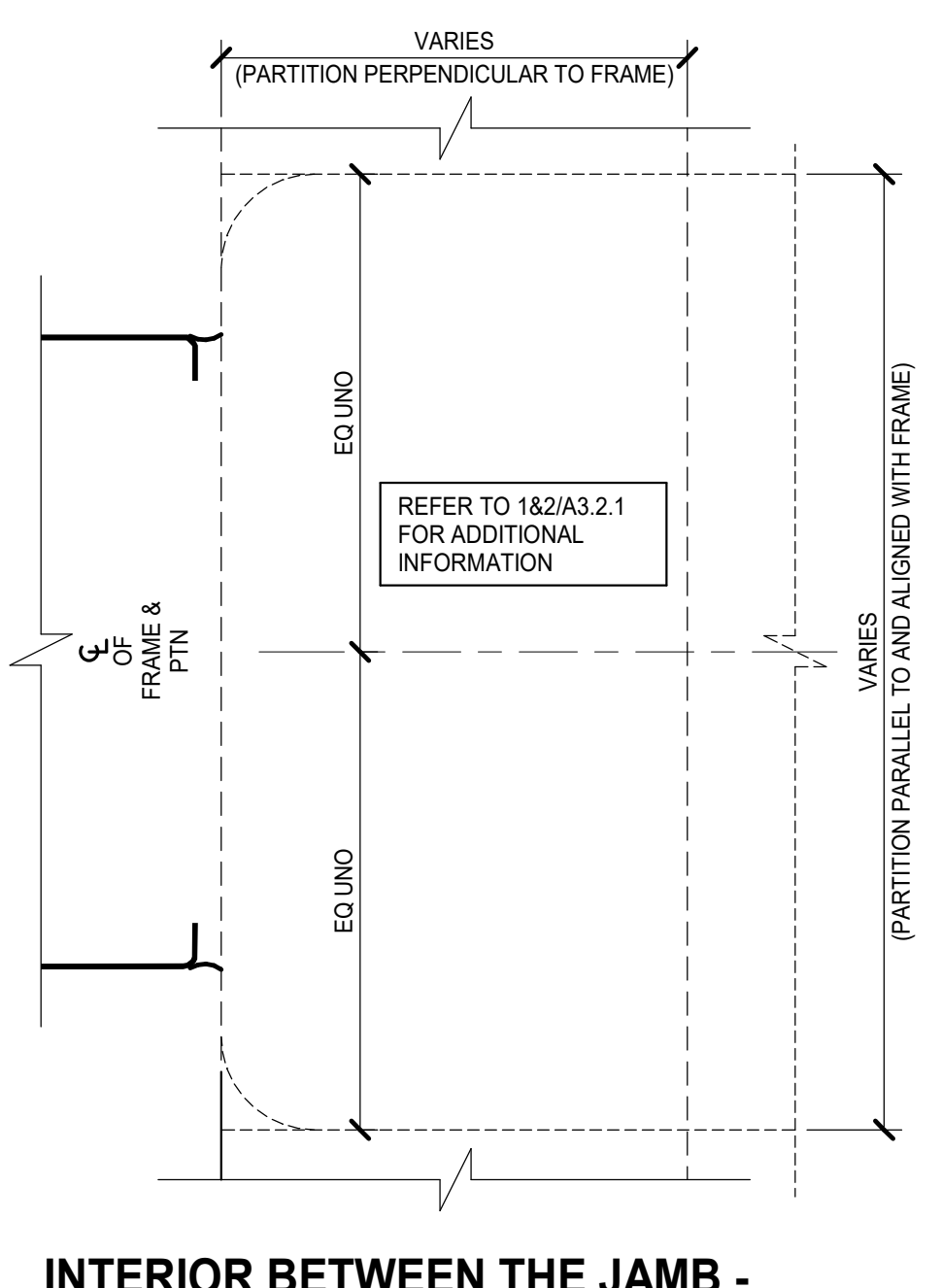
5 HEAD DETAIL
A3.1.1 | A3.2.1 3" = 1'-0"



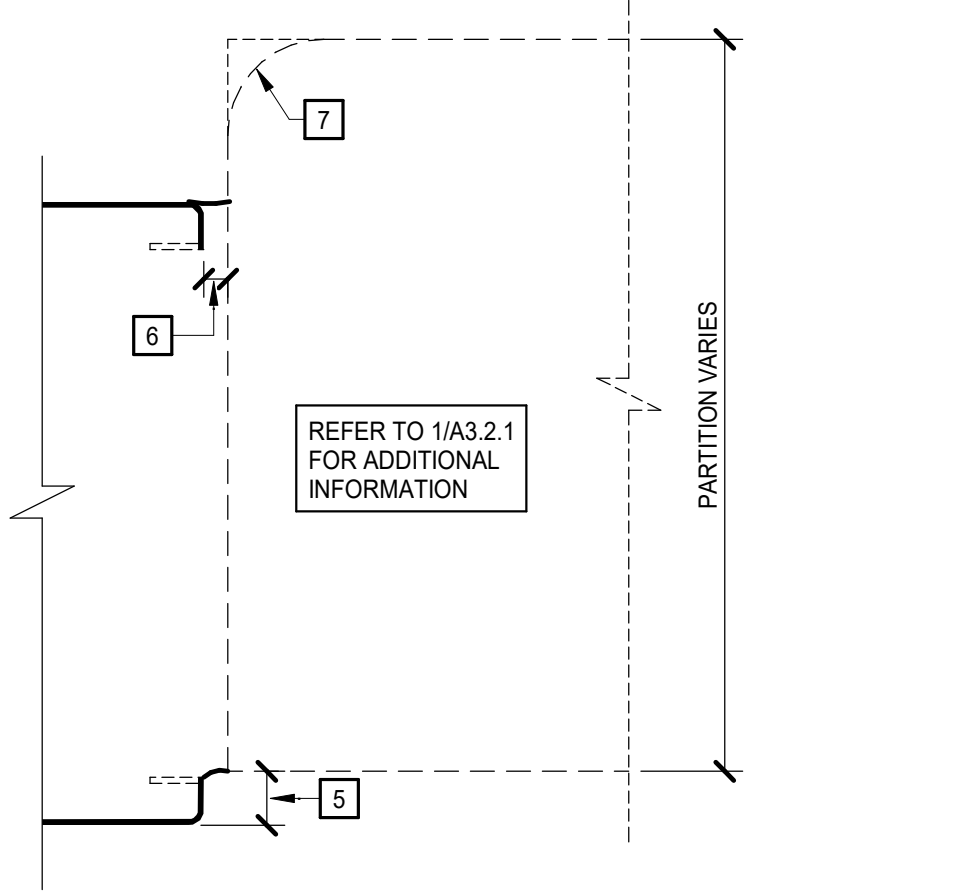
4 SILL DETAIL
A3.1.1 | A3.2.1 3" = 1'-0"



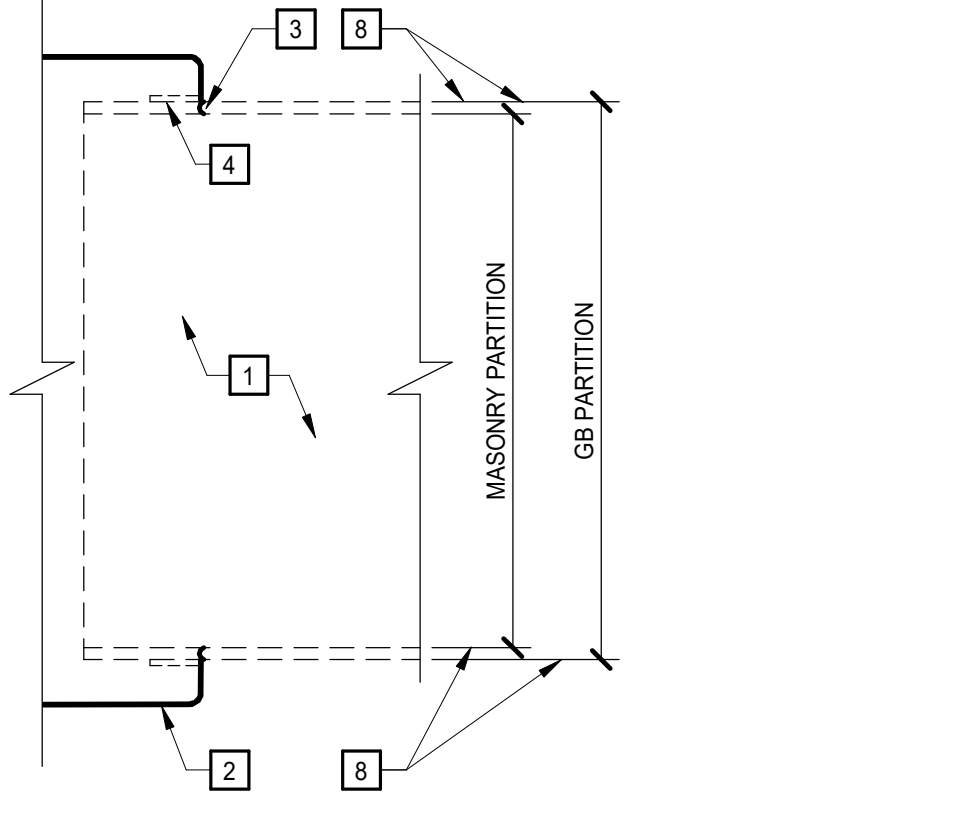
3 INTERIOR BETWEEN THE JAMB - BUTTED HEAD/JAMB/SILL
A3.1.1 | A3.2.1 6" = 1'-0"



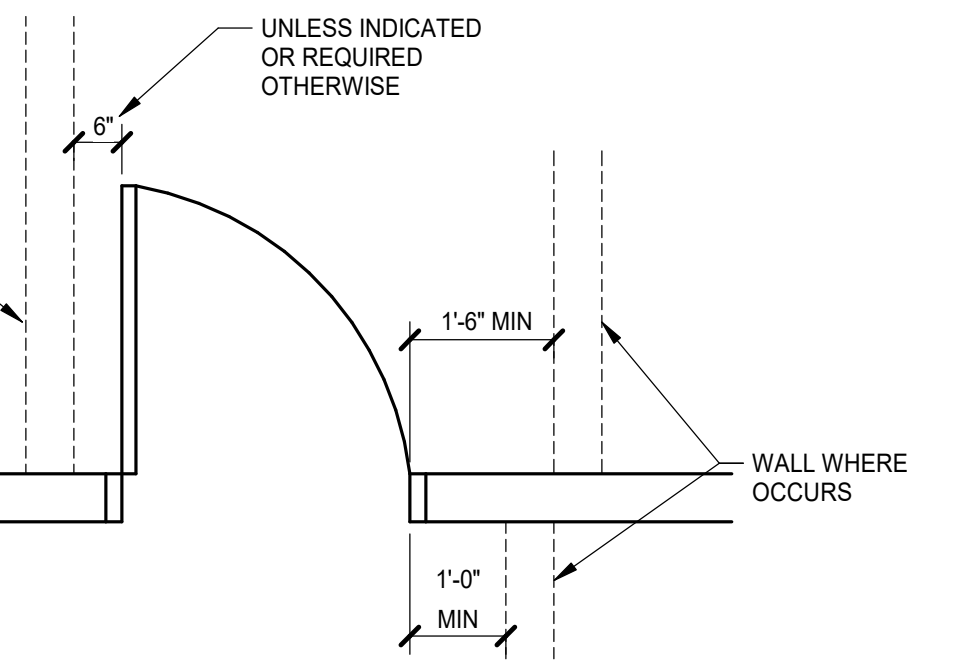
2 INTERIOR BETWEEN THE JAMB - PROJECTED HEAD/JAMB/SILL
A3.1.1 | A3.2.1 6" = 1'-0"



1 INTERIOR WRAP HEAD/JAMB/SILL
A3.1.1 | A3.2.1 6" = 1'-0"

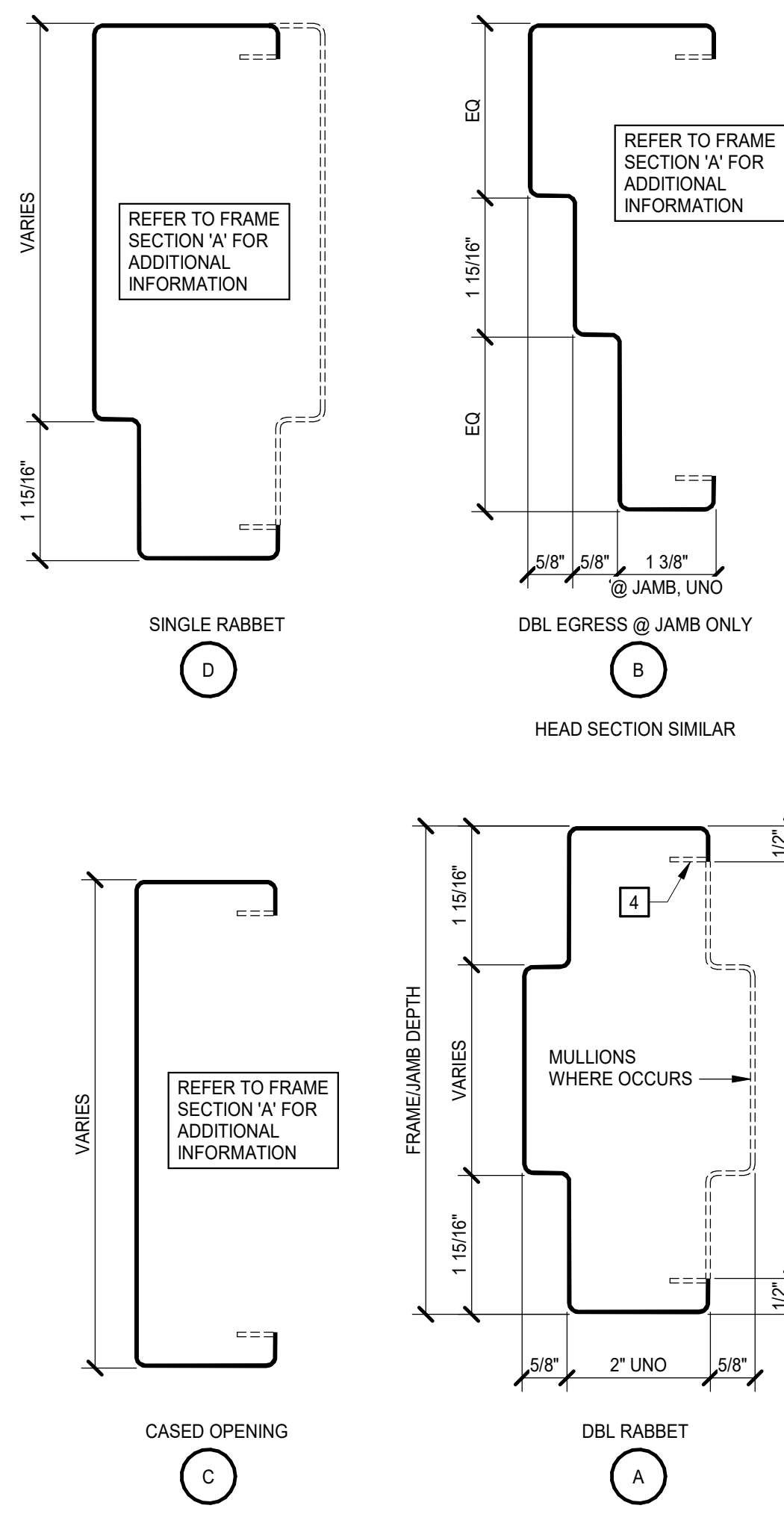


MANEUVERING CLEARANCE AT DOORS
NO SCALE



DOOR AND FRAME DETAIL KEYNOTES
REPRESENTED BY [n]
APPLIES TO DRAWINGS A3.2.1 - A3.2.n

- ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
- REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
- SEALANT, ALL SIDES - TOOL TO 90°.
- BACKBEND RETURN @ GB LOCATIONS ONLY.
- 9/16" @ MAS; 1/2" @ GB.
- 1/4" @ JAMBS, UNO; DIMENSION @ HEAD & SILL VARIES.
- BULLNOSE @ CMU JAMBS & SILLS.
- 0" @ GB LOCATIONS; 1/16" @ MAS LOCATIONS.
- ALUMINUM WINDOW WITH CUSTOM PANNING PROFILE.
- CONTINUOUS SEALANT AND BACKER ROD.
- SHIM AS REQUIRED.
- CONTINUOUS SEALANT.
- ALUMINUM LOUVER.
- EXTRUDED ALUMINUM FLASHING.
- PPT WOOD BLOCKING.
- BLIND.



- ALL FRAME/JAMB DEPTHS, OTHER THAN WRAP CONDITIONS, SHALL BE 6-3/4" UNO.
- ALL FRAME/JAMB DEPTHS AT WRAP CONDITIONS SHALL BE SIZED TO SUIT PARTITION.
- DOORS, PANELS, GLAZING, STOPS, AND OTHER FRAME INFILLS ARE NOT SHOWN IN FRAME SECTIONS AS THEY VARY - PROVIDE SAME WHERE INDICATED.

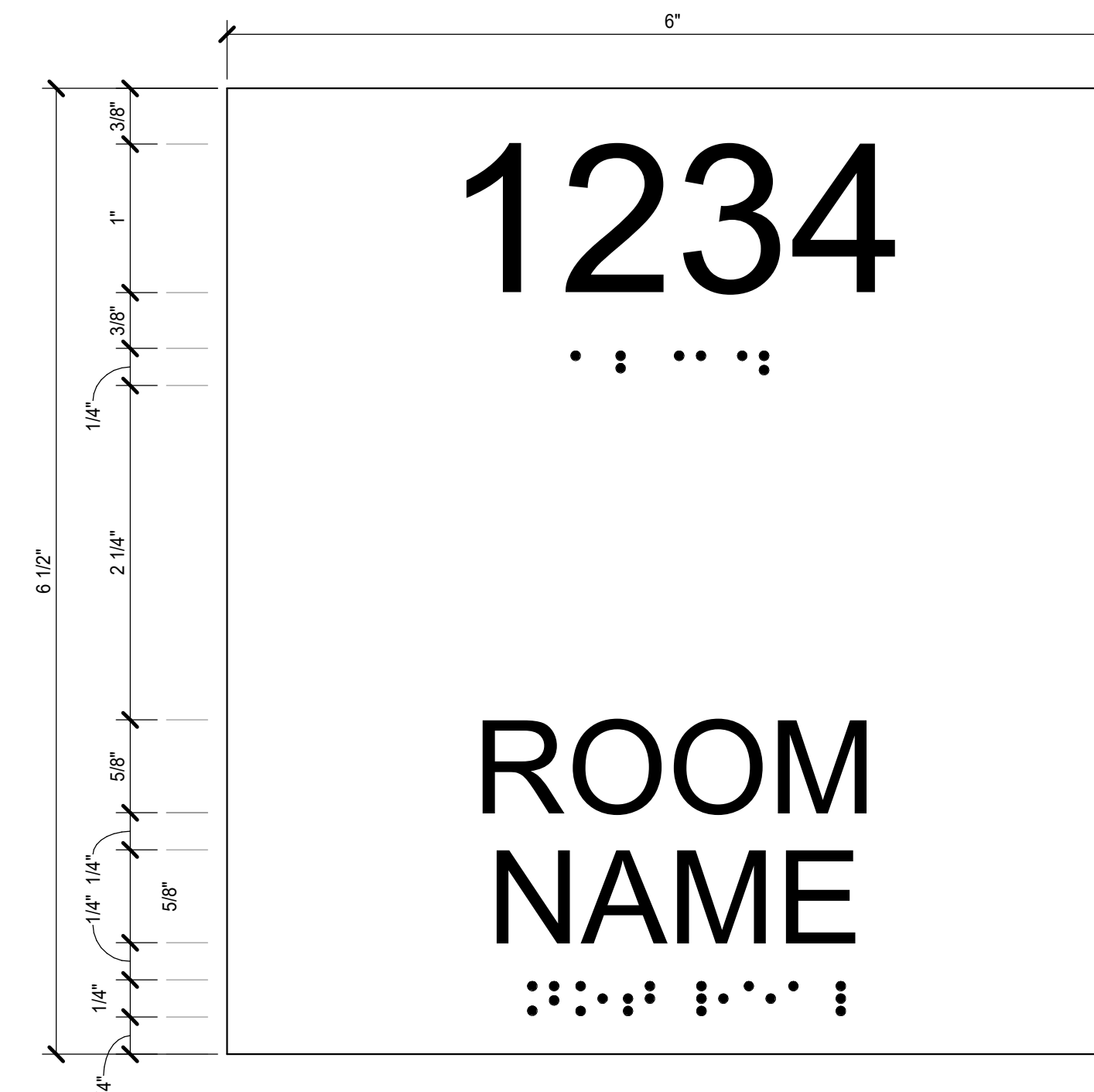
SIGNAGE TYPES/ELEVATIONS



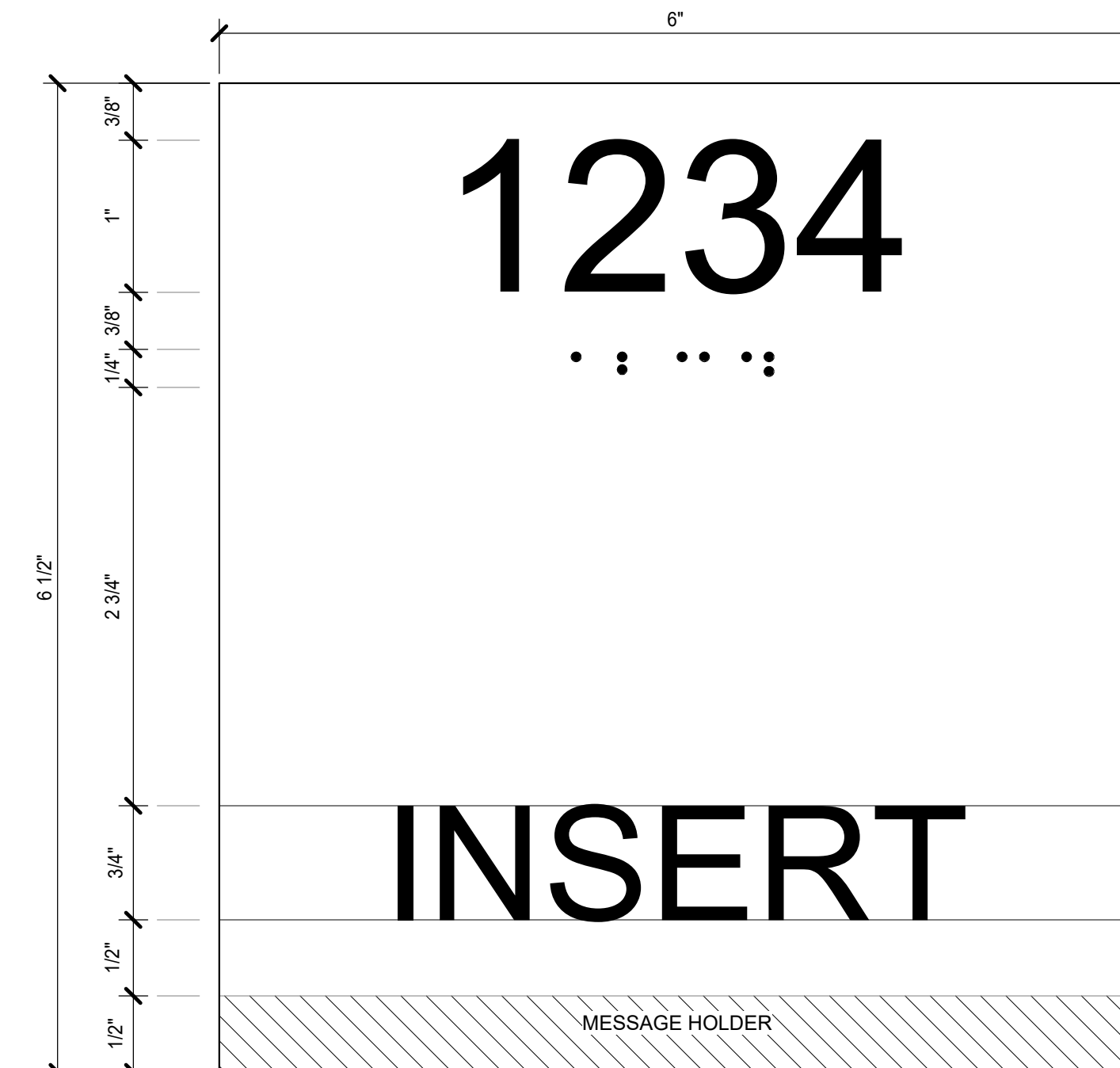
SIGN TYPE 3B



SIGN TYPE 3A

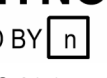


SIGN TYPE 2
NO SCALE



SIGN TYPE 1
NO SCALE

- GENERAL NOTES**
- A. ALL INTERIOR SIGNAGE TO BE MANUFACTURED BY PHOTOMECHANICAL ETCHING PROCESS, LEAVING COPY AND BRAILLE RAISED. PLAQUE TO BE LAMINATED TO 1/8" OPAQUE ACRYLIC BASE CUT TO SIZE AND FINISHED WITH ACRYLIC POLYURETHANE ENAMEL. COLOR TBD BY OWNER.
 - B. SIGNS ARE UNFRAMED WITH SQUARE CORNERS
 - C. BRAILLE AND TEXT TO BE RAISED 1/32"
 - D. ROOM NUMBERS TO BE 1" HIGH
 - E. TEXT TO BE 5/8" HIGH ON ALL SIGNS, UNO
 - F. LETTER STYLE: STANDARD BOLD CONDENSED - ALL UPPER CASE LETTERS
 - G. FINISHED SIGNS TO BE 1/4" THICK
 - H. EDGE TREATMENT: BEVELED
 - I. PROVIDE COLOR MATCHING BLANK FOR BACK SIDE OF ALL SIGNS MOUNTED ON GLASS
 - J. SUPPLY AND INSTALL GRAPHIC INSERTS, WHERE REQUIRED
 - K. MOUNT ALL SIGNS TO COMPLY WITH ADA REQUIREMENTS
 - L. ATTACHMENT METHOD: PER MANUFACTURER RECOMMENDATIONS
 - M. REFER TO DOOR SCHEDULE FOR SIGN TYPE LOCATIONS
 - N. PROVIDE 12" X 12" FRAMED ACRYLIC SIGN HOLDER TO ACCEPT INSERT
 - O. ALL SIGNAGE REQUIREMENTS SHALL COMPLY WITH SECTION 703 OF ICC A117.1-2009

SIGNAGE KEYNOTES
 REPRESENTED BY 
 APPLIES TO DRAWINGS A3.0.n - A3.0.n

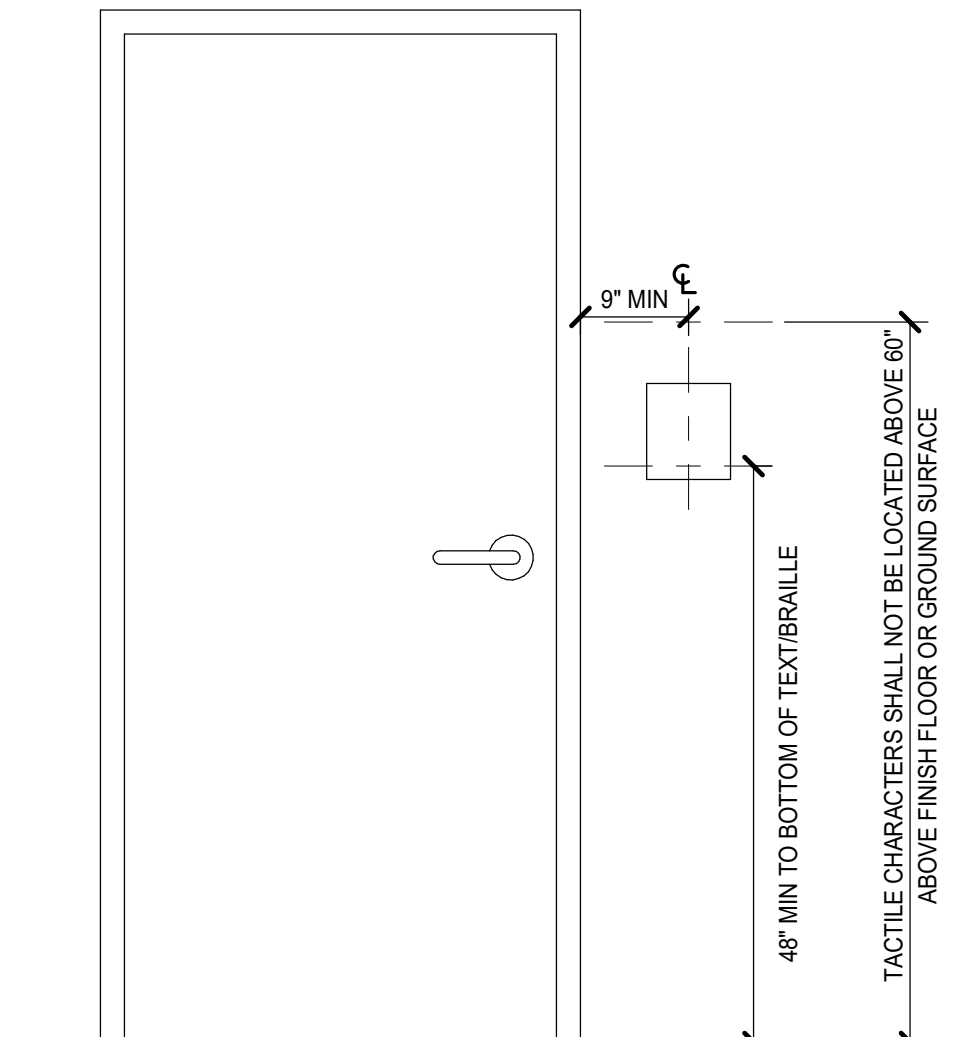
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 PHONE (919) 840-0091
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 UNIVERSITY OF NORTH CAROLINA WILMINGTON
 SCO # 22-24639-01B
 601 College Rd, Wilmington, NC 28403

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INTERIOR SIGNAGE

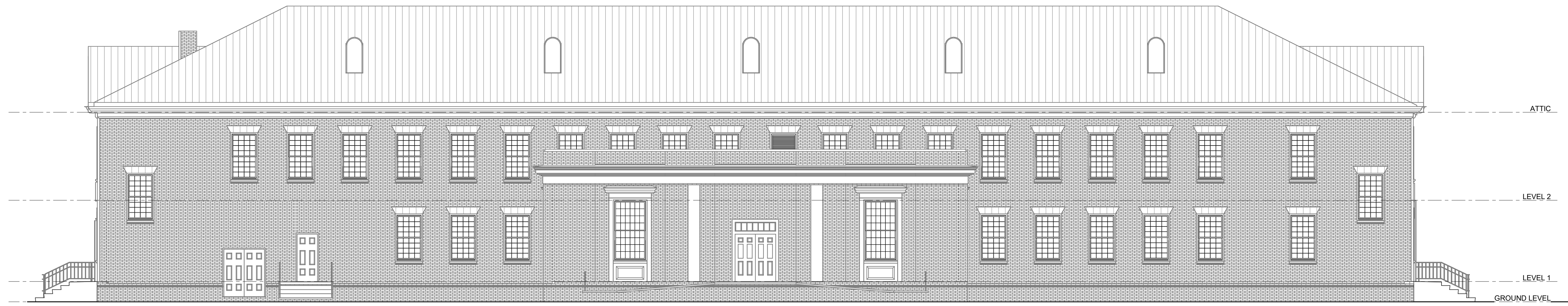


SIGNAGE MOUNTING DIAGRAM
 NO SCALE

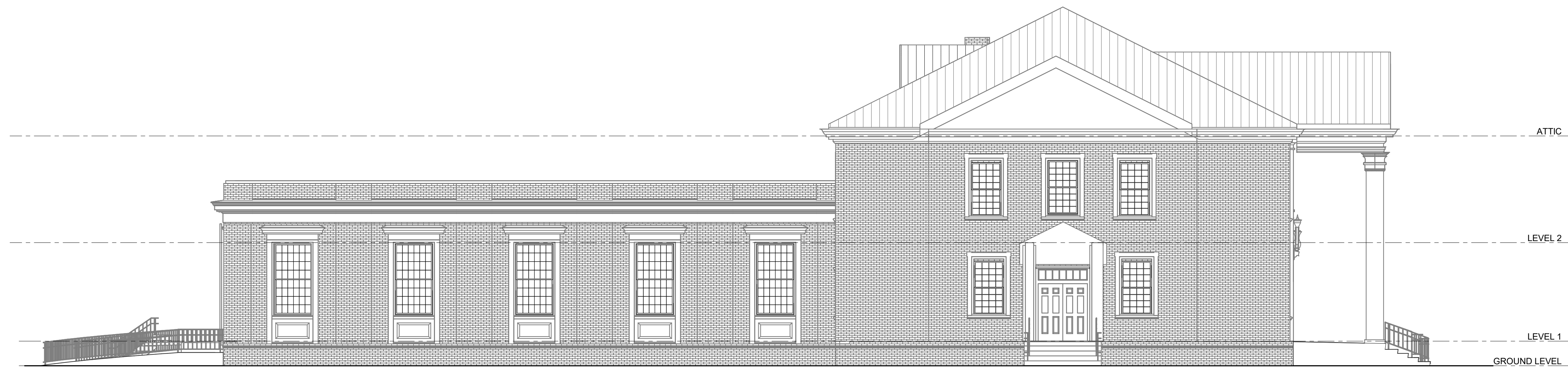
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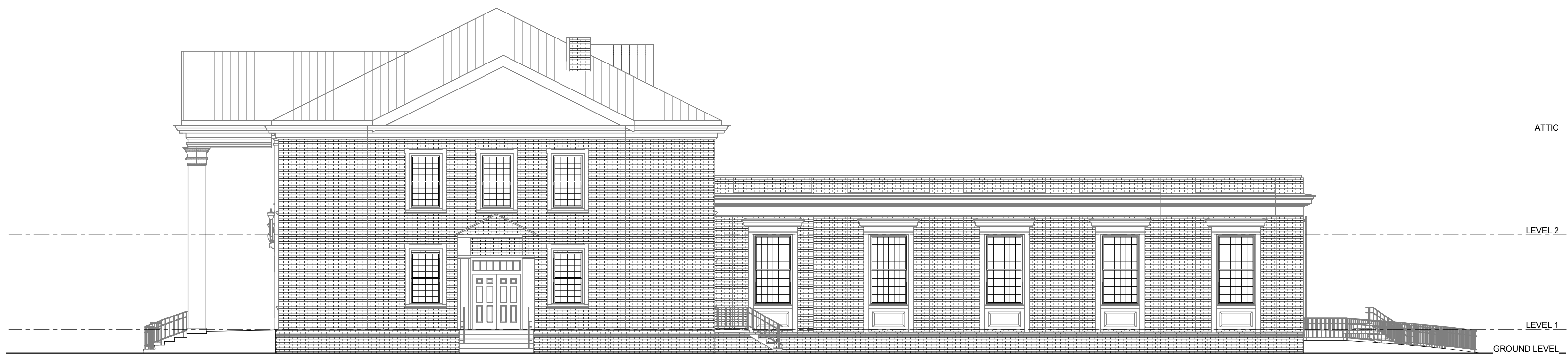
1 ELEVATION
A2.1.2 | A4.0.1 | 1/8" = 1'-0"



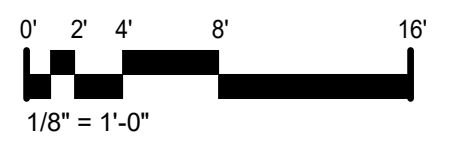
2 ELEVATION
A1.2.2 | A4.0.1 | 1/8" = 1'-0"



4 ELEVATION
A2.1.1 | A4.0.1 | 1/8" = 1'-0"



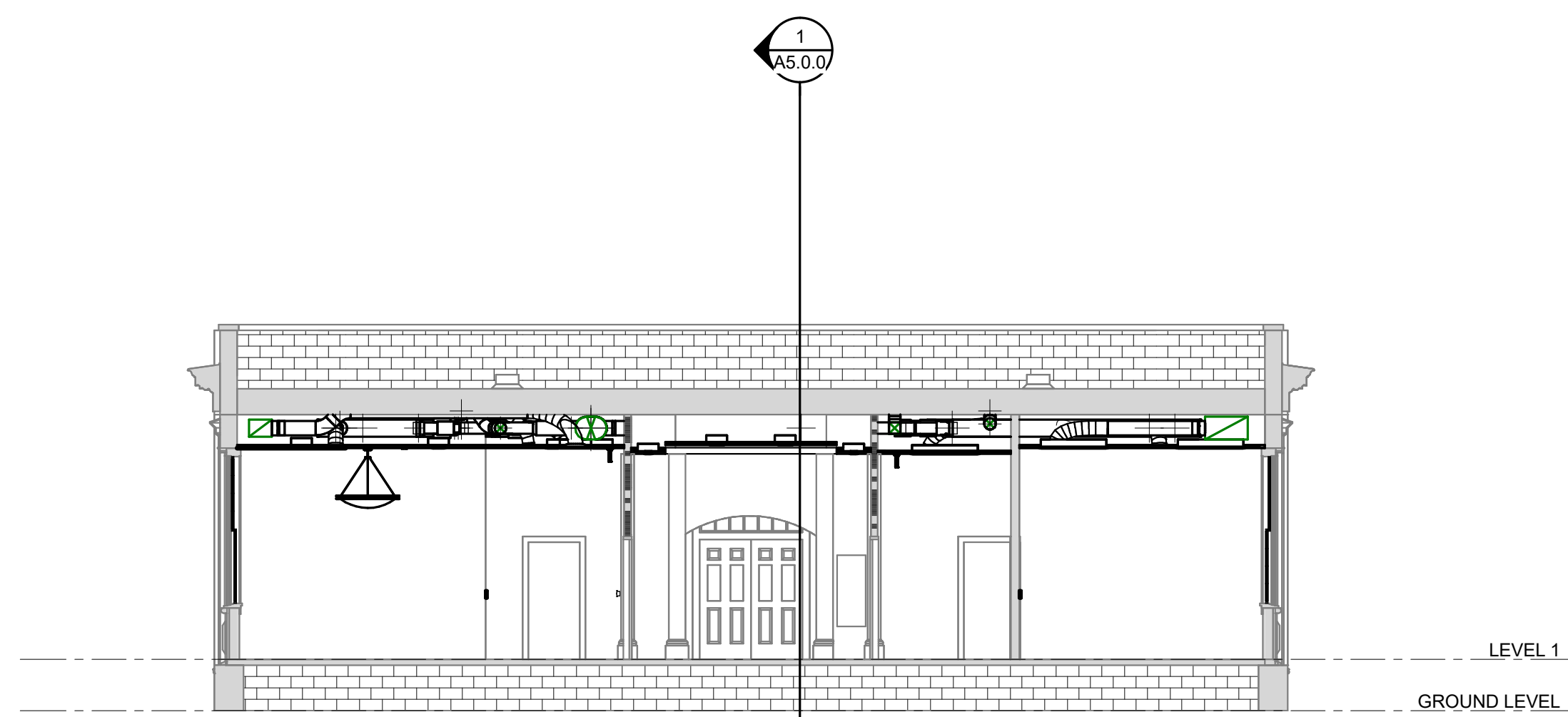
3 ELEVATION
A1.2.3 | A4.0.1 | 1/8" = 1'-0"



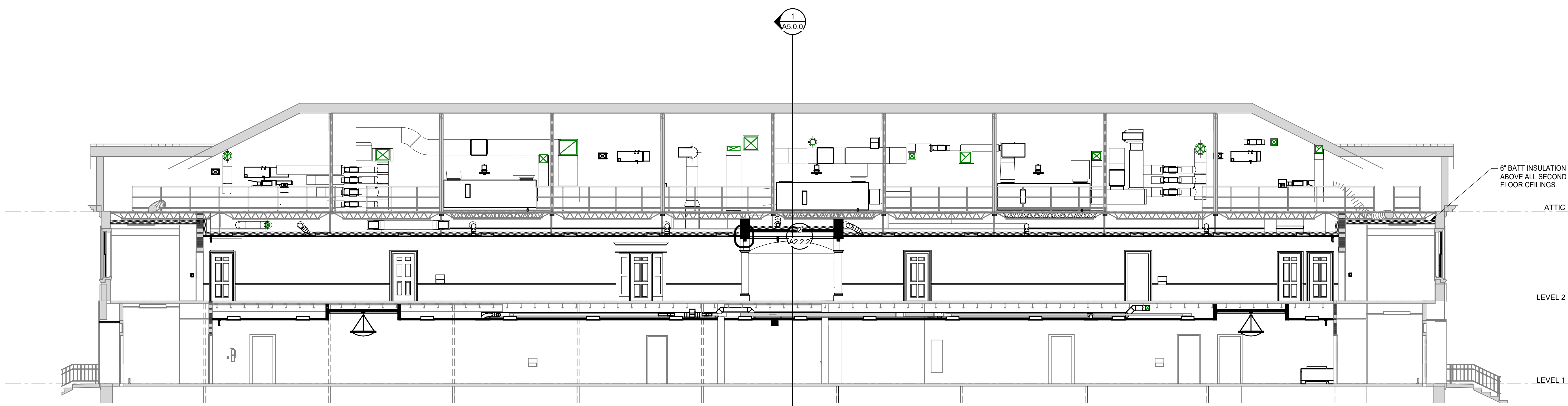
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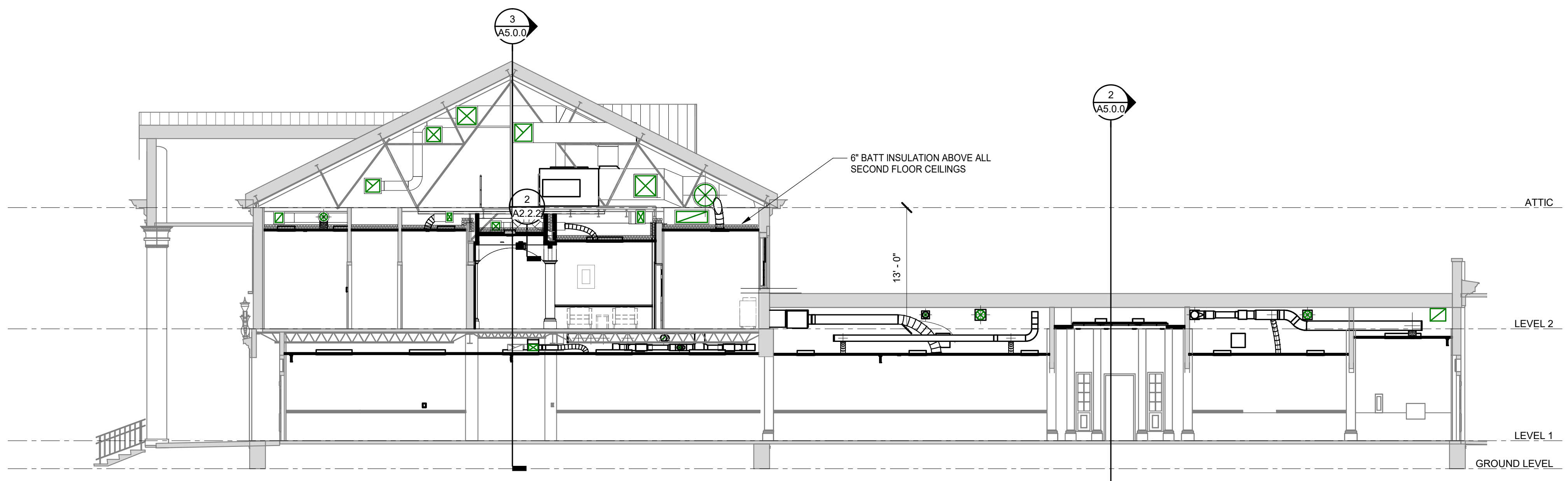
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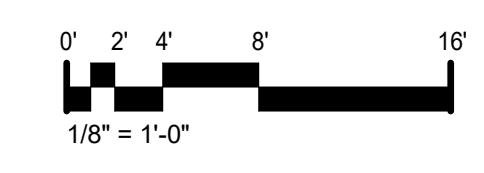
2 BUILDING SECTION
A2.1.1 | A5.0.0 | 1/8" = 1'-0"



3 BUILDING SECTION
A2.1.1 | A5.0.0 | 1/8" = 1'-0"



1 BUILDING SECTIONS
A1.2.1 | A5.0.0 | 1/8" = 1'-0"



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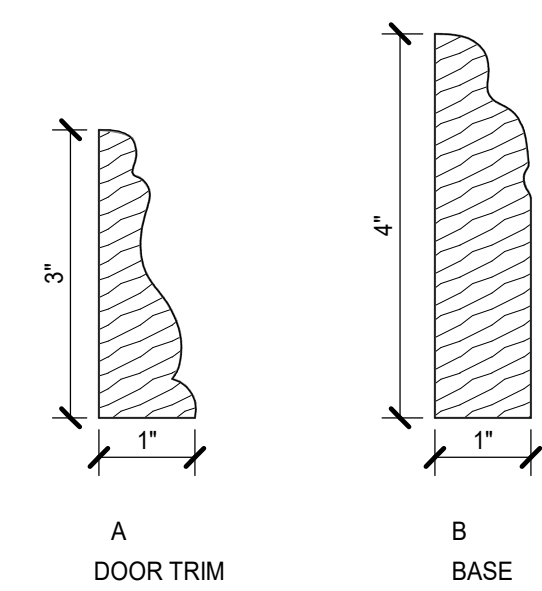
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BUILDING SECTIONS

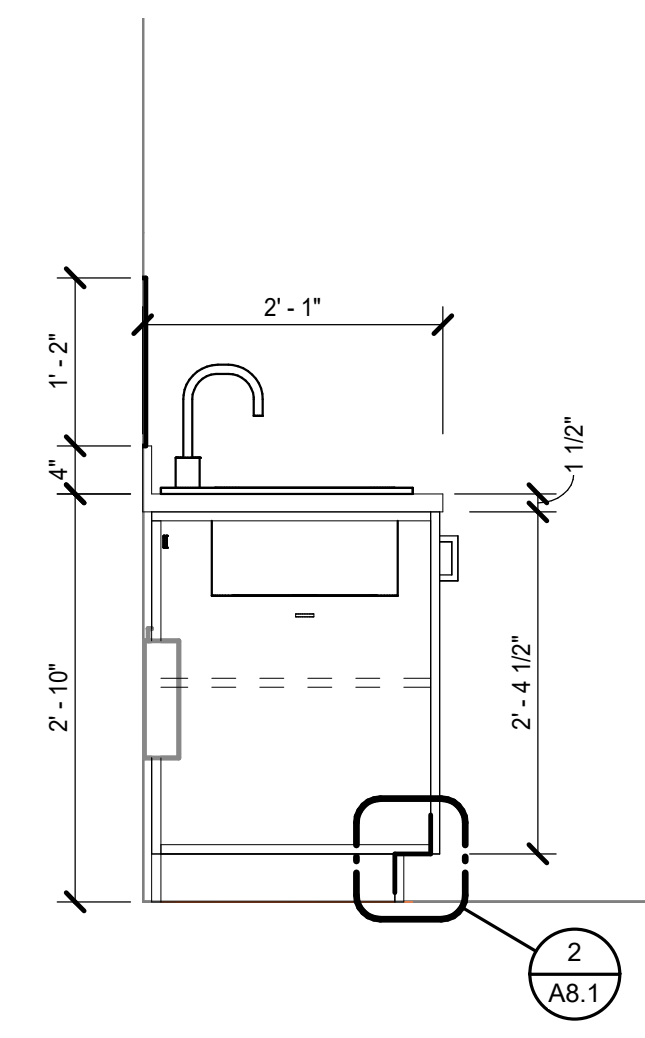
A5.0.0

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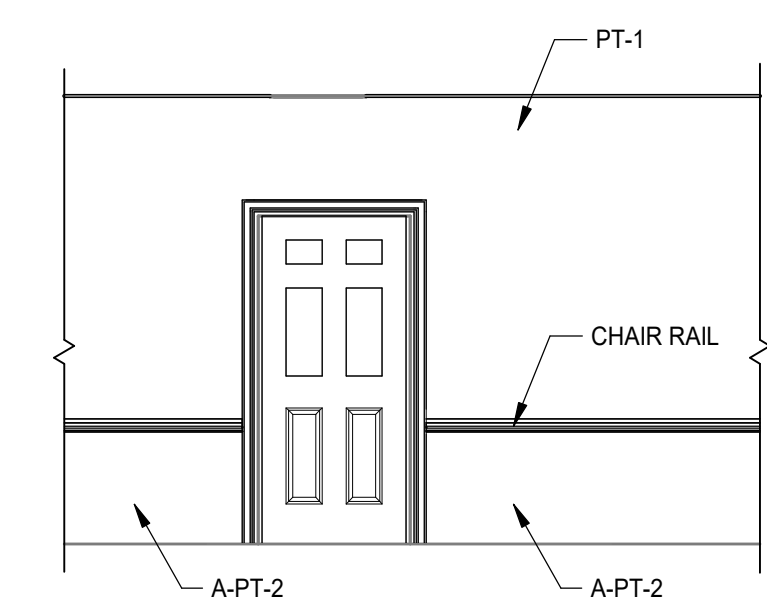
1 2 3 4 5 6 7 8 9 10



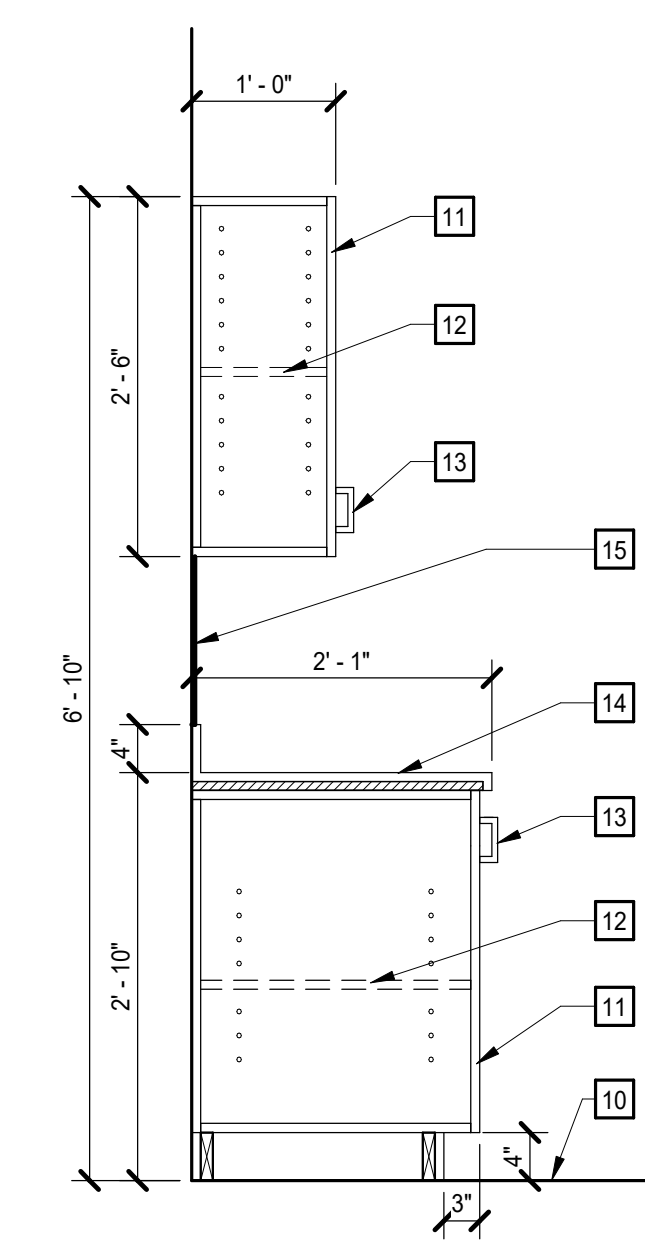
HARDWOOD PROFILES



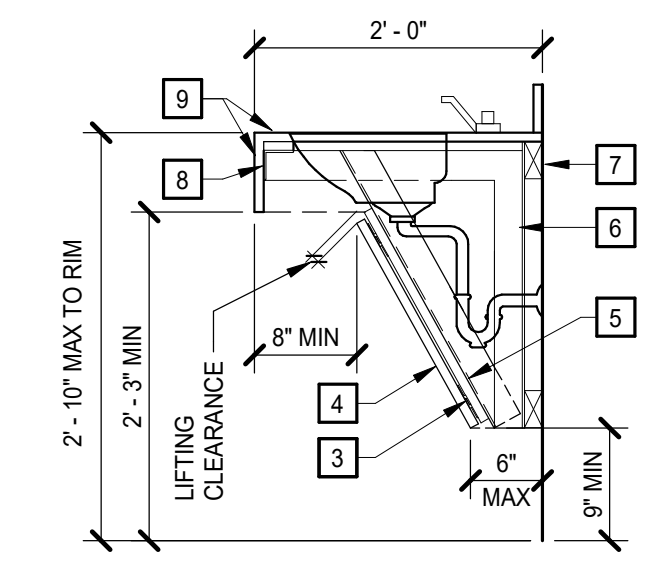
6 TYP BARRIER FREE SINK CABINET
3/4" = 1'-0"



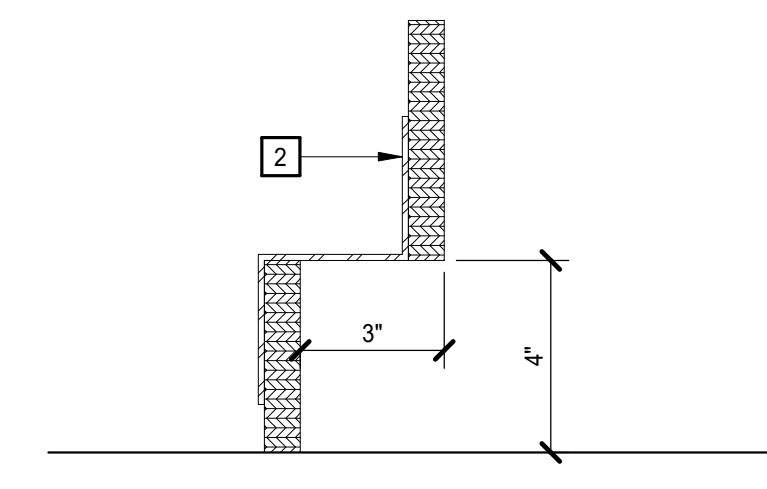
5 CORRIDOR ACCENT PAINT - TYPICAL
1/4" = 1'-0"



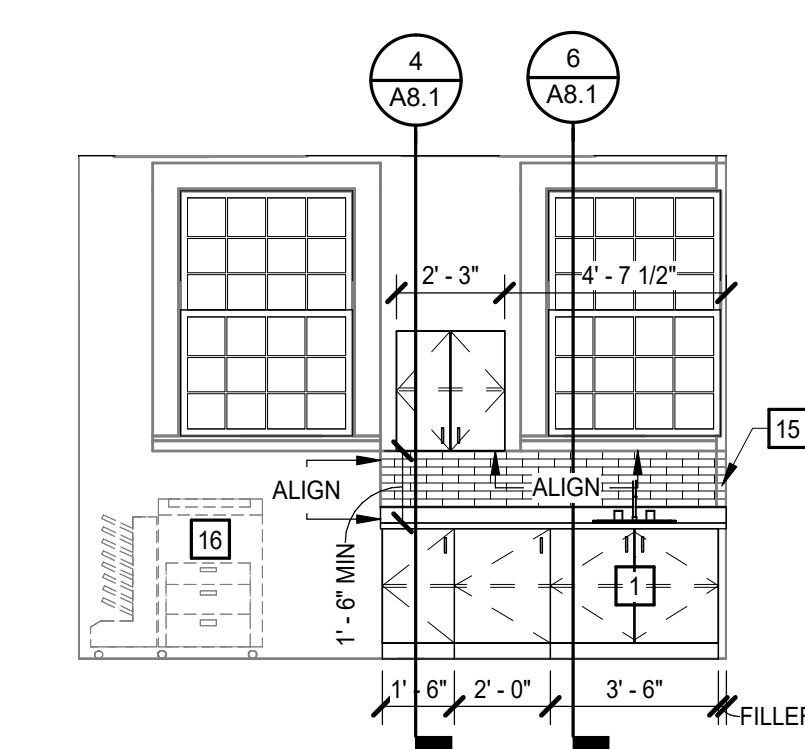
4 TYPICAL WALL AND BASE CABINET SECTION
3/4" = 1'-0"



3 SECTION - TYPICAL LAVATORY SSM COUNTER WITH ADA PANEL
3/4" = 1'-0"



2 DETAIL - ACCESSIBLE TOEKICK
3" = 1'-0"



1 206 COMBINED BREAK/ PRINTING/ MEETING
1/4" = 1'-0"

- CASEWORK GENERAL NOTES**
- A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
 - 2'-10" AFF OR 2'-10" TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
 - 2'-1" DEEP
 - SOLID SURFACE
 - BACKSPASHES: 4" HIGH AT ALL SIDES AND BACK
 - EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS
 - B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
 - 2'-0" DEEP NOMINAL
 - TOE KICKS: 4" HIGH AND 3" DEEP
 - SINK LOCATIONS: 3'-0" WIDE CLEAR KNEE SPACE (NO BASE CABINET) FOR BARRIER FREE ACCESS
 - C. UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S):
 - 1'-0" 1/2" DEEP NOMINAL
 - 2'-6" HIGH
 - TOP AT 7'-0" AFF
 - MINIMUM 1" CLEAR INTERIOR DEPTH
 - D. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.
 - E. ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERWISE.
 - F. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.
 - G. PROVIDE CABINET DOOR LOCKS, COMBINATION LOCK. REFER TO SPECIFICATION.

- CASEWORK KEYNOTES**
REPRESENTED BY [Symbol]
APPLIES TO DRAWINGS A8.1 - A8.m
- 1 ACCESSIBLE SINK CABINET WITH ATTACHED TOE KICK. REFER TO DETAIL 2/A8.1.
 - 2 18 GAUGE STEEL POWDER COATED BRACKET ALLOWS THE TOE KICK TO SWING OUT WITH THE CABINET DOOR ALLOWING UNIMPEDED ACCESS FOR WHEELCHAIRS
 - 3 CONT 1X2 WD BLOCKING W/ BRACKETS FOR Z-CLIPS
 - 4 REMOVEABLE PLAM PANEL, 4'-0" WIDE MAX
 - 5 1 X WD BACKER SCREW-ATTACHED TO STL BRACKET
 - 6 2 1/2"x2 1/2" x .185 STL ANGLE BRACKET CENTERED BETWEEN LAVATORIES AND AT OPEN ENDS, 4'-0" WIDE MAX
 - 7 2X WD LEDGER ANCHOR AT EACH STUD
 - 8 2 1/2" X 2 1/2" X 0.185 STL ANGLE APRON CARRIER CONT
 - 9 SSM COUNTERTOP W/APRON
 - 10 FLOOR FINISH AS SCHEDULED
 - 11 PLAM CABINET
 - 12 ADJUSTABLE SHELVING
 - 13 HARDWARE
 - 14 SOLID SURFACE MATERIAL COUNTER TOP AND 4" BACKSPASH
 - 15 TILE BACKSPASH, GWT-B
 - 16 COPIER (NIC)



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LIFE SAFETY SYMBOL LEGEND				
DESIGNATOR MATRIX				
	WALL	BARRIER	PARTITION	HATED BEARING OR NON-BEARING WALL
2 HR FIRE	XXXXXX	■■■■■	■■■■■	■■■■■
1 HR FIRE	■■■■■	■■■■■	■■■■■	■■■■■

NOTES:
1. REFER TO LIFE SAFETY DRAWINGS FOR ALL WALL RATING DETAILS.

ABBREVIATIONS					
@	AT	EVC	ELECTRIC WATER COOLER	OSD	OPEN SITE DRAIN
AAV	AIR ADMITTANCE VALVE	EWH	ELECTRIC WATER HEATER	PC	PRECAST
ABV	ABOVE	EXP	EXPANSION	PCF	POUNDS PER CUBIC FOOT
AC-X	AIR COMPRESSOR DESIGNATION	FD	FLOOR DRAIN	PD	PUMP DISCHARGE
ADJ	ADJUSTABLE	FCO	FLOOR CLEANOUT	PLUMB	PLUMBING
ADNL	ADDITIONAL	FD	FLOOR DRAIN	PLWVD	PLYWOOD
AP	ACCESS PANEL	FDC	FIRE DEPARTMENT CONNECTION	POLY	POLYETHYLENE
APF	ABOVE FINISHED FLOOR	FF	FINISHED FLOOR ELEVATION	PPT	PRESSURE PRESERVATIVE TREATED
APFS	ABOVE FINISHED GRADE	FFE	FINISHED FLOOR ELEVATION	PREFAB	PREFABRICATE(D)
AHU	AIR HANDLING UNIT	FG	FINISHED GRADE	PROJ	PROJECT
ALT	ALTERNATE	FH	FIRE HYDRANT	PSF	POUNDS PER SQUARE FOOT
ALUM	ALUMINUM	FHC	FIRE HOSE CABINET	PSI	POUNDS PER SQUARE INCH
AP	APPROXIMATE	FHS	FIRE HOSE STATION	PV	PROPANE VENT
ARCH	ARCHITECTURAL	FHVC	FIRE HOSE VALVE CABINET	PVC	POLYVINYL CHLORIDE
AUTO	AUTOMATIC	FX	FIXTURE	PVMT	PAVEMENT
AVG	AVERAGE	FLR	FLOOR	R	RISER
BFF	BELOW FINISHED FLOOR	FLSHG	FLASHING	RAD	RADIUS
BFG	BELOW FINISHED GRADE	FOR	FUEL OIL RETURN	RD-X	RECIRCULATION PUMP DESIGNATION
BLDG	BUILDING	FOS	FUEL OIL SUPPLY	RO	ROUGH OPENING
BO	BOTTOM OF	FV	FIRE VALVE CABINET	RSD	ROUGH OPENING
BOT	BOTTOM	FSD	FOUNDATION SUB-DRAIN	REF	REFERENCE
BSMT	BASEMENT	FT	FOOT OR FEET	REQD	REQUIRED
BTWN	BETWEEN	FT	FOOT OR FEET	REMT	REQUIREMENTS
CA	COMPRESSED AIR	FVC	FIRE VALVE CABINET	RL	RAIN LEADER
CI	CAST IRON	G	GAS	RM	ROOM
CP	CAST-IN-PLACE CONCRETE	GCD	GAS CLEANOUT	RO	ROUGH OPENING
CL	CENTERLINE	GWH	GAS WATER HEATER	RV	RAVON VENT
CLG	CEILING	HB	HOSE BIBB	S	SOUTH
CLR	CLEAR	HORIZ	HORIZONTAL	SAN	SANITARY
CMPT	CORRUGATED METAL PIPE	HP	HORSEPOWER	SCH	SCHEDULE
CNTR	COUNTERTOP	HR-X	HOSE REEL DESIGNATION	SD	STORM DRAINAGE PIPING
CO	CLEANOUT	HTG	HEATING	SDN	STORM DRAIN NOZZLE
COL	COLUMN	HW	HOT WATER	SF	SQUARE FOOT/FEET
CONC	CONCRETE	HWR	HOT WATER RETURN	SHT	SHEET
CONDS	CONDENSATE	HWS	HOT WATER SUPPLY	SM	SMILAR
CONSTR	CONSTRUCTION	ID	INSIDE DIAMETER	SLT	SEALANT
CONT	CONTINUATION	IN	INCH	SOG	SLAB ON GRADE
CONTR	CONTRACT-(OR)	INSUL	INSULATE OR INSULATION	SP	SUMP PUMP
CORR	CORRIDOR	INV	INVERT	SPEC	SPECIFICATION
CP	CIRCULATING PUMP	JAN	JANITOR	SPR	SPRINKLER
CR	CLASSROOM	KIT	KITCHEN	SQ	SQUARE
CT	COOLING TOWER	KW	KITCHEN WASTE	SRD	SECONDARY ROOF DRAIN
CU	COPPER	LAB	LABORATORY	SS	STAINLESS STEEL
CU FT	CUBIC FEET	LAV	LAVATORY	SSD	SECONDARY STORM DRAINAGE PIPING
CU YD	CUBIC YARD	LBS	POUNDS	STD	STANDARD
CW	COLD WATER	LF	LINEAR FOOT (FEET)	STL	STEEL
DB	DRY BULB	LP	PROPANE	STOR	STORAGE
DCW	DOMESTIC COLD WATER	LPV	PROPANE VENT	STRUCT	STRUCTURAL
DEMO	DEMOLISH OR DEMOLITION	MATL	MATERIAL	SUSP	SUSPENDED
DHR	DOMESTIC HOT WATER RETURN	MAX	MAXIMUM	TD	TRENCH DRAIN
DHR(140)	DOMESTIC HOT WATER RETURN (140°)	MECH	MECHANICAL	THK	THICKNESS
DHW	DOMESTIC HOT WATER	MED	MEDIUM	TLT	TOILET
DHW(140)	DOMESTIC HOT WATER (140°)	MFR	MANUFACTURER	TMV	THERMOSTATIC MIXING VALVE
DI	DROP INLET	MH	MANHOLE	TOSL	TOP OF SLAB
DIA	DIAMETER	MN	MINIMUM	TW	DOMESTIC TEMPERED WATER (90° F)
DIP	DUCTILE IRON PIPE	MISC	MISCELLANEOUS	TYP	TYPICAL
DN	DOWN	MTD	MOUNTED	UG	UNDERGROUND
DR-X	COMPRESSED AIR DRYER DESIGNATION	N	NORTH	UNO	UNLESS NOTED (INDICATED) OTHERWISE
DS	DOWNSPOUT	N/A	NOT APPLICABLE/AVAILABLE	V	VENT
DT	DRAIN TILE	NC	NORMALLY CLOSED	VAC	VACUUM
DTL	DETAIL	NG	NATURAL GAS	VB	VACUUM BREAKER
DTW	DOMESTIC TEMPERED WATER	NGV	NATURAL GAS VENT	VERT	VERTICAL
DWG	DRAWING	NIC	NOT IN CONTRACT	VTR	VENT THROUGH ROOF
DWP	DOMESTIC WATER BOOSTER PUMP	NO	NORMALLY OPEN	W	WEST
E	EAST	NO, (#)	NUMBER	W	WITH
ED	EMERGENCY SECONDARY ROOF DRAIN	NGM	NOMINAL	WO	WITHOUT
ELEC	ELECTRICAL	OC	ON CENTER	WB	WATER HAMMER ARRESTER
ELEV	ELEVATION	OD	OUTSIDE DIAMETER	WC	WATER CLOSET
EPBD	ELECTRICAL PANELBOARD	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WCO	WALL CLEANOUT
EQ	EQUAL	OFF	OFFICE	WSP	WATER SOURCE HEAT PUMP
EQUIP	EQUIPMENT	OH	OVERHEAD	WWF	WELDED WIRE FABRIC
ETR	EXISTING TO REMAIN	OPNG	OPENING	WWM	WELDED WIRE MESH
		OPP	OPPOSITE	XFMR	TRANSFORMER

GRAPHICS SYMBOLS LEGEND			
	PIPE WITH SIZE AND SERVICE		POINT OF CONNECTION TO EXISTING
	FLOW IN DIRECTION OF ARROW		LIMIT OF DEMOLITION
	PITCH DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE		KEYNOTE
	PIPE CAP		STRUCTURAL GRID LINE WITH DESIGNATION
	PIPE TURNED DOWN		SPACE IDENTIFICATION TAG
	PIPE TURNED UP		SPACE NUMBER BUILDING AREA (WHEN USED)
	PIPE TEE UP		EQUIPMENT IDENTIFICATION TAG
	PIPE TEE DOWN		EQUIPMENT NUMBER UNIT DESIGNATION
	UNION		SECTION WHERE CUT
	CONCENTRIC PIPE REDUCTION		SECTION LETTER
	END OF LINE CLEANOUT PLUG		DRAWING WHERE SECTION IS INDICATED
	FLOOR CLEANOUT		ENLARGED PLAN WHERE CUT
	WALL CLEANOUT		ENLARGED PLAN NUMBER
	YARD CLEANOUT (CLEANOUT TO GRADE)		DRAWING WHERE ENLARGED PLAN IS INDICATED
	FLOOR DRAIN WITH TAG		DETAIL TAG
	FLOOR SINK WITH TAG		DETAIL NUMBER
	PRESSURE GAUGE WITH GAUGE COCK		DRAWING WHERE DETAIL IS INDICATED
	LIQUID FILLED THERMOMETER		SANITARY RISER TAG
	WATER HAMMER ARRESTOR (PLUMBING & DRAINAGE INSTITUTE SIZE INDICATED)		DRAWING WHERE SANITARY RISER IS TAGGED
	FLOW SWITCH		DOMESTIC RISER TAG
	TEMPERATURE/PRESSURE PLUG		DRAWING WHERE DOMESTIC RISER IS TAGGED
	VALVE		DETAIL TITLE
	VALVE IN RISER		DETAIL NUMBER
	GAS COCK		DRAWING WHERE DETAIL IS INDICATED
	VENTURI FLOW METER		ADDITIONAL DRAWING REFERENCES
	MANUAL BALANCING VALVE		SANITARY RISER DIAGRAM
	AUTOMATIC BALANCING VALVE WITH FLOW TAPS		DRAWING WHERE SANITARY RISER IS INDICATED
	SWING CHECK VALVE		DRAWING WHERE SANITARY RISER IS TAGGED
	PRESSURE REDUCING VALVE		ADDITIONAL DRAWING REFERENCES
	SOLENOID OPERATED VALVE		DOMESTIC RISER DIAGRAM
	TEMPERATURE AND PRESSURE RELIEF VALVE		DRAWING WHERE DOMESTIC RISER IS INDICATED
	BACKWATER VALVE		DRAWING WHERE DOMESTIC RISER IS TAGGED
	HOSE BIBB OR WALL HYDRANT		ADDITIONAL DRAWING REFERENCES
	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER		FUEL GAS RISER DIAGRAM
	DOUBLE CHECK BACKFLOW PREVENTER		DRAWING WHERE FUEL GAS RISER IS INDICATED
	PUMP		DRAWING WHERE FUEL GAS RISER IS TAGGED

ELECTRIC WATER HEATER SCHEDULE												
TAG	BASIS OF DESIGN		LOCATION	CAPACITY (GALLONS)	RECOVERY RATE (GPH)	TEMPERATURE RISE (°F)	TEMPERATURE SETTING (°F)	ELECTRICAL DATA			NOTES	
	MANUFACTURER	MODEL						INPUT RATE (KW)	(V)	(PH)		(HZ)
EX EVH-1	A.O. SMITH	DEL-40	M100-MECH	40	24	100	140	6	480	3	60	1
EX EVH-2	EEMAX	SP100 DL	208-BREAK	0	1	68	105	10	277	1	60	2

1. UNIT IS EXISTING TO REMAIN.
2. UNIT IS EXISTING TO BE RELOCATED.

PLUMBING FIXTURE SCHEDULE									
TAG	FIXTURE	HEIGHT A.F.F.	BASIS OF DESIGN	PIPE SIZE			NOTES		
				COLD WATER	HOT WATER	SOIL WASTE			
LA-1	WALL-HUNG LAVATORY (ACCESSIBLE)	RIM AT 34"	FIXTURE: SLOAN SS-3003 FAUCET: DELTA 21C153-T1	1/2"	1/2"	1 1/2"	1, 3		
LA-2	COUNTER MOUNTED LAVATORY WITH MANUALLY OPERATED FAUCET (ACCESSIBLE)	COUNTER MOUNTED REFER TO ARCH DRAWINGS	FIXTURE: KOHLER K-2196 FAUCET: DELTA 21C153-T1	1/2"	1/2"	1 1/2"	1, 3		
MB-1	MOP BASIN	RIM AT 12"	FIXTURE: FIAT TS83001 FAUCET: (2) CHICAGO 852-12CP	1/2"	1/2"	3"	3"		
SK-1	SINK - SINGLE BASIN	COUNTER MOUNTED REFER TO ARCH DWGS	FIXTURE: ELKAY LRADQ-221955 FAUCET: CHICAGO 1103-317XKABCP	1/2"	1/2"	1 1/2"	1, 1/2"		
UR-1	URINAL	RIM AT 24"	FIXTURE: SLOAN SU-1009 VALVE: SLOAN REGAL 196-0.125	3/4"	2"	2"	2		
WC-1	FLOOR MOUNTED WATER CLOSET	TOP OF SEAT 15"	FIXTURE: SLOAN ST-2009 VALVE: SLOAN REGAL 111-1.28	1"	2"	4"	2		
WC-2	FLOOR MOUNTED WATER CLOSET	TOP OF SEAT 17"	FIXTURE: SLOAN ST-2029 VALVE: SLOAN REGAL 111-1.28	1"	2"	4"	1, 2		

1. THIS ACCESSIBLE FIXTURE, ACCESSORIES, AND INSTALLATION SHALL CONFORM TO THE USBC AND ASAD ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. LOCATE FLUSH ACTUATORS ON WIDE SIDE OF STALLS OR APPROACH AREAS.
3. PROVIDE ASSE-1070 CERTIFIED MIXING VALVE IN STAINLESS STEEL WALL CABINET, ABOVE CEILING, OR BELOW FIXTURE ACCESSIBLE BUT CONCEALED FROM VIEW.

DRAIN AND CLEANOUT SCHEDULE				
TAG	BASIS OF DESIGN		STRAINER/GRATE	NOTES
	MANUFACTURER	MODEL		
FCO	JOSAM	55000-F-VP	FLOOR CLEANOUT	
FD-1	JOSAM	30000-6A	6" x 6"	1

1. PROVIDE IN-LINE TRAP SEAL, SEE DETAIL.

THERMOSTATIC MIXING VALVE SCHEDULE										
TAG	BASIS OF DESIGN		DESIGN FLOW (GPM)	FLOW RANGE (GPM)	MAX P.D. AT DESIGN (PSI)	HW SYSTEM TEMPERATURES		CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				INLET (°F)	OUTLET (°F)	INLET (IN)	OUTLET (IN)	
TMV-1	WATTS-POWERS	HYDROGLARD LFSH1432	20.00	0.50 - 30.0	5	140	120	1"	1"	1
TMV-2	BRADLEY CORPORATION	S19-2000-EFX8-R-B	4.00	1.50 - 5.00	10	120	85	1/2"	1/2"	2

1. PROVIDE THERMOSTATIC MIXING VALVE ASSEMBLY WITH TIP GAUGES ON INLETS AND OUTLET. PROVIDE FINAL CONNECTION AND CONFIGURATION BASED ON MFGRS. RECOMMENDATIONS. ENSURE 140° TANK TEMPERATURE SETPOINT AND 120° BUILDING DELIVERY.
2. PROVIDE ASSE-1071 VALVE FOR EXISTING EMERGENCY FIXTURE. CONFIRM FINAL MODEL AND FLOW CONDITIONS WITH FINAL VALVE MODEL SELECTION BASED ON MFGRS. RECOMMENDATIONS.

GENERAL NOTES	
A.	THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
B.	COORDINATE PIPING LOCATIONS AND INSTALLATION WITH EACH TRADE TO AVOID CONFLICTS WITH OTHER TRADES.
C.	PROVIDE FLOOR CLEANOUTS INDICATED FLUSH WITH FLOOR FINISHES.
D.	PROVIDE CLEANOUTS WHERE INDICATED AND ADDITIONAL CLEANOUTS AS REQUIRED BY LOCAL CODE.
E.	REFER TO DRAWINGS FROM EACH DISCIPLINE BEFORE ROUGHING-IN PLUMBING FIXTURES.
F.	OBTAIN DIMENSIONS AND ROUTING IN FIELD BEFORE INSTALLATION OF PLUMBING AND FIXTURES.
G.	INSTALL ALL DRAINAGE PATTERN FITTINGS AND PIPING IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
H.	REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.
I.	PROVIDE ISOLATION VALVES IN ACCORDANCE WITH DIAGRAMS, DETAILS, AND DIVISION 22 SPECIFICATIONS.



PROJECT NO.	DATE	REVISIONS
620589	DECEMBER 11, 2023	
		DATE
		DESCRIPTION

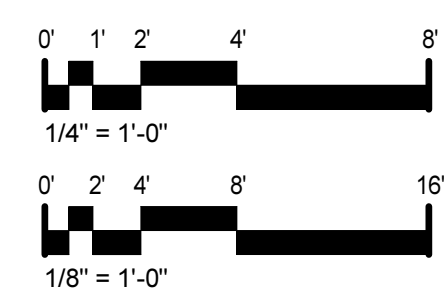
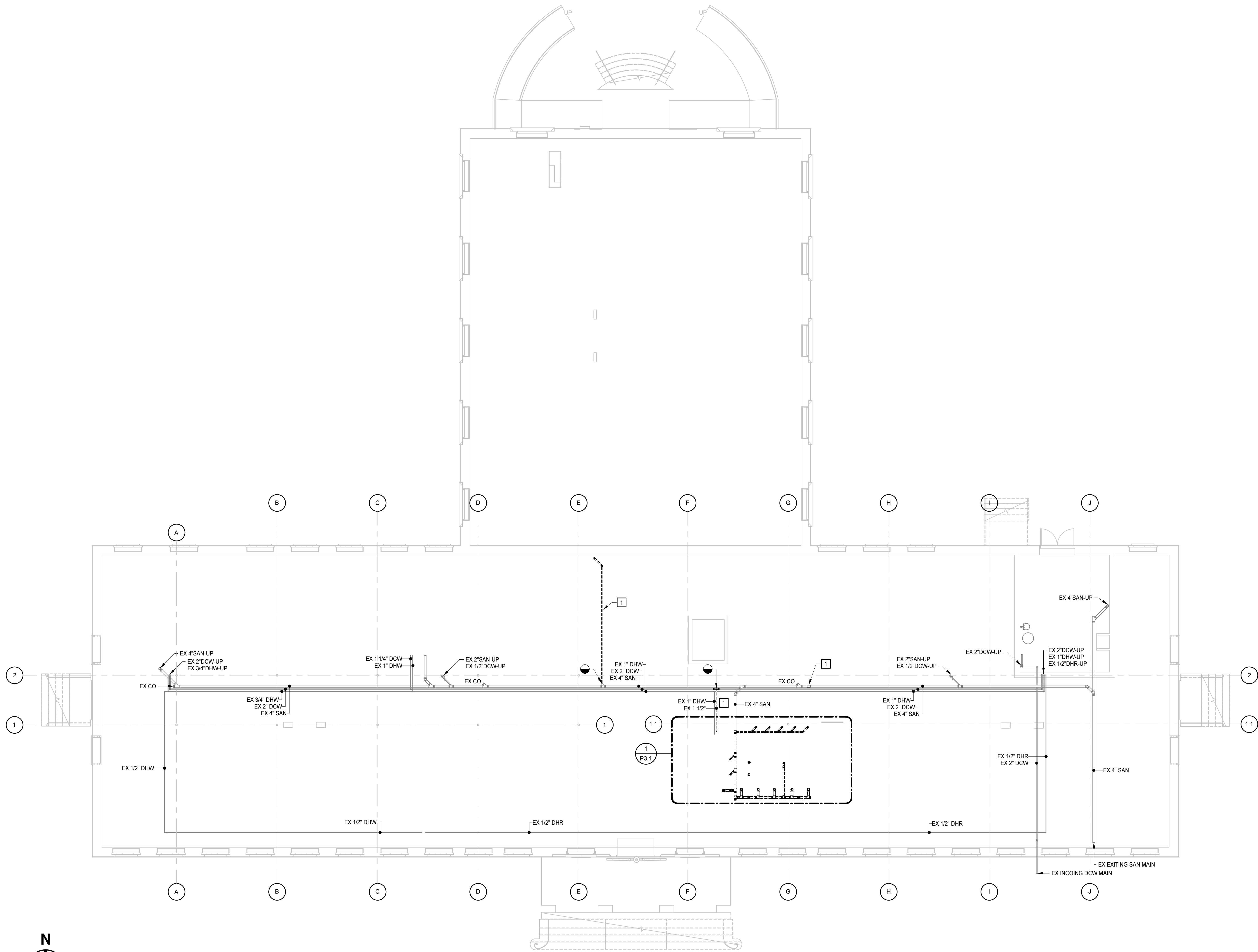
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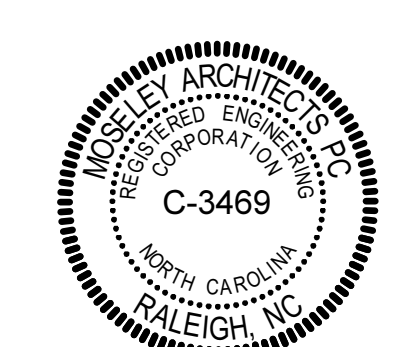
CRAWL SPACE PLAN - DEMOLITION - PLUMBING

1/8" = 1'-0"

KEYNOTES	
APPLIES TO THIS DRAWING REPRESENTED BY [n]	
1.	REMOVE SECTION OF PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.



MOSELEYARCHITECTS
 911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA, 27603
 PHONE (919) 840-0051
 MOSELEYARCHITECTS.COM



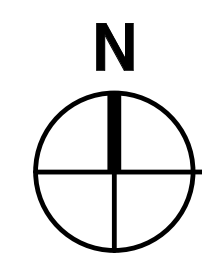
ALDERMAN HALL RENOVATION
 UNIVERSITY OF NORTH CAROLINA WILMINGTON
 SCO # 22-24639-01B
 601 College Rd, Wilmington, NC 28403

PROJECT NO.	620589
DATE	DECEMBER 11, 2023
REVISIONS	
DATE	DESCRIPTION

CRAWL SPACE PLAN -
 DEMOLITION -
 PLUMBING

P1.0

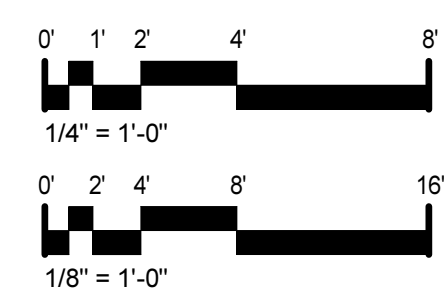
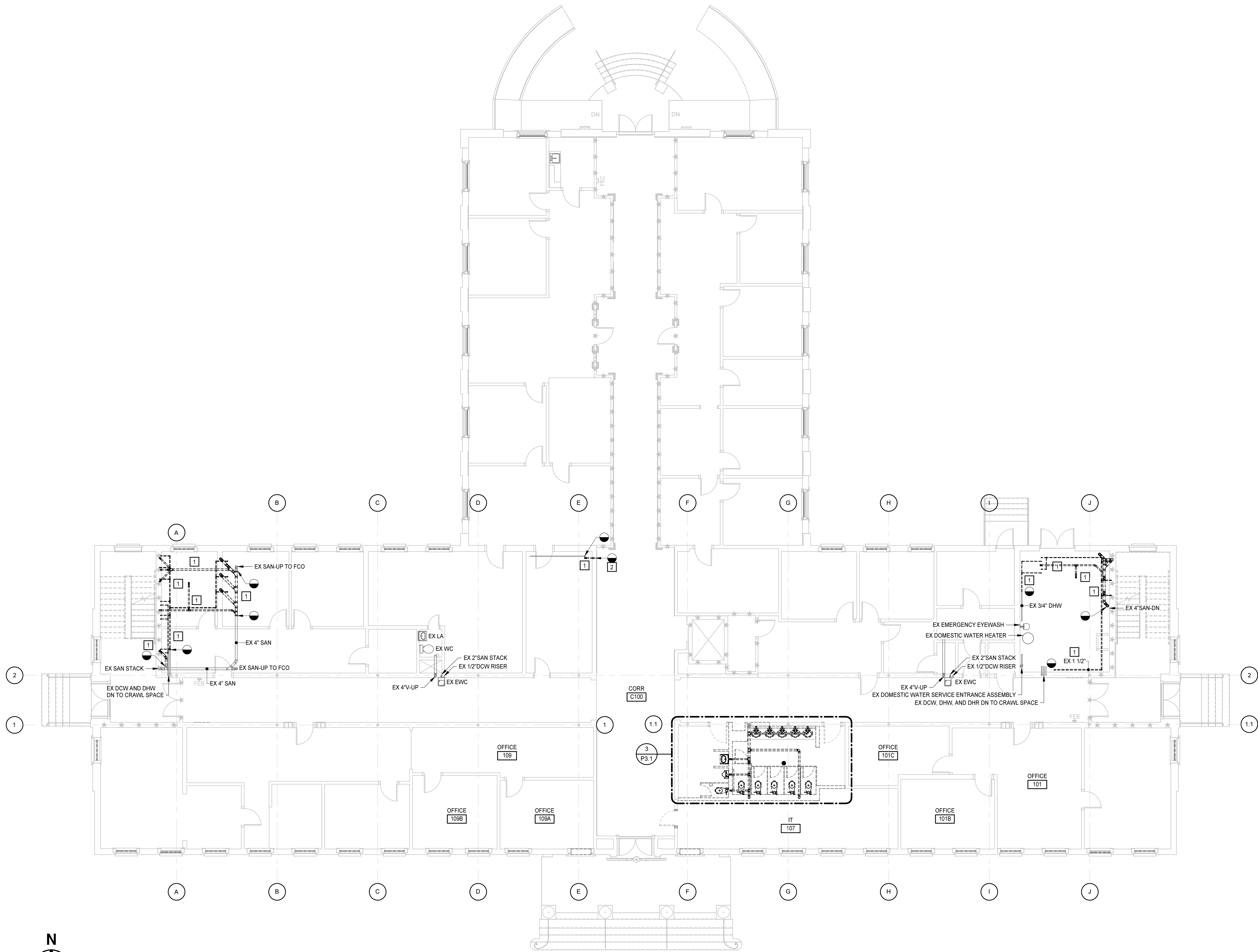
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FIRST FLOOR PLAN - DEMOLITION - PLUMBING

1/8" = 1'-0"

KEYNOTES	
APPLIES TO THIS DRAWING	
REPRESENTED BY [n]	
1.	REMOVE SECTION OF PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.
2.	CAP AND ABANDON IN PLACE SANITARY DRAIN WITHIN WALL.



ALDERMAN HALL RENOVATION
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FIRST FLOOR PLAN -
 DEMOLITION -
 PLUMBING

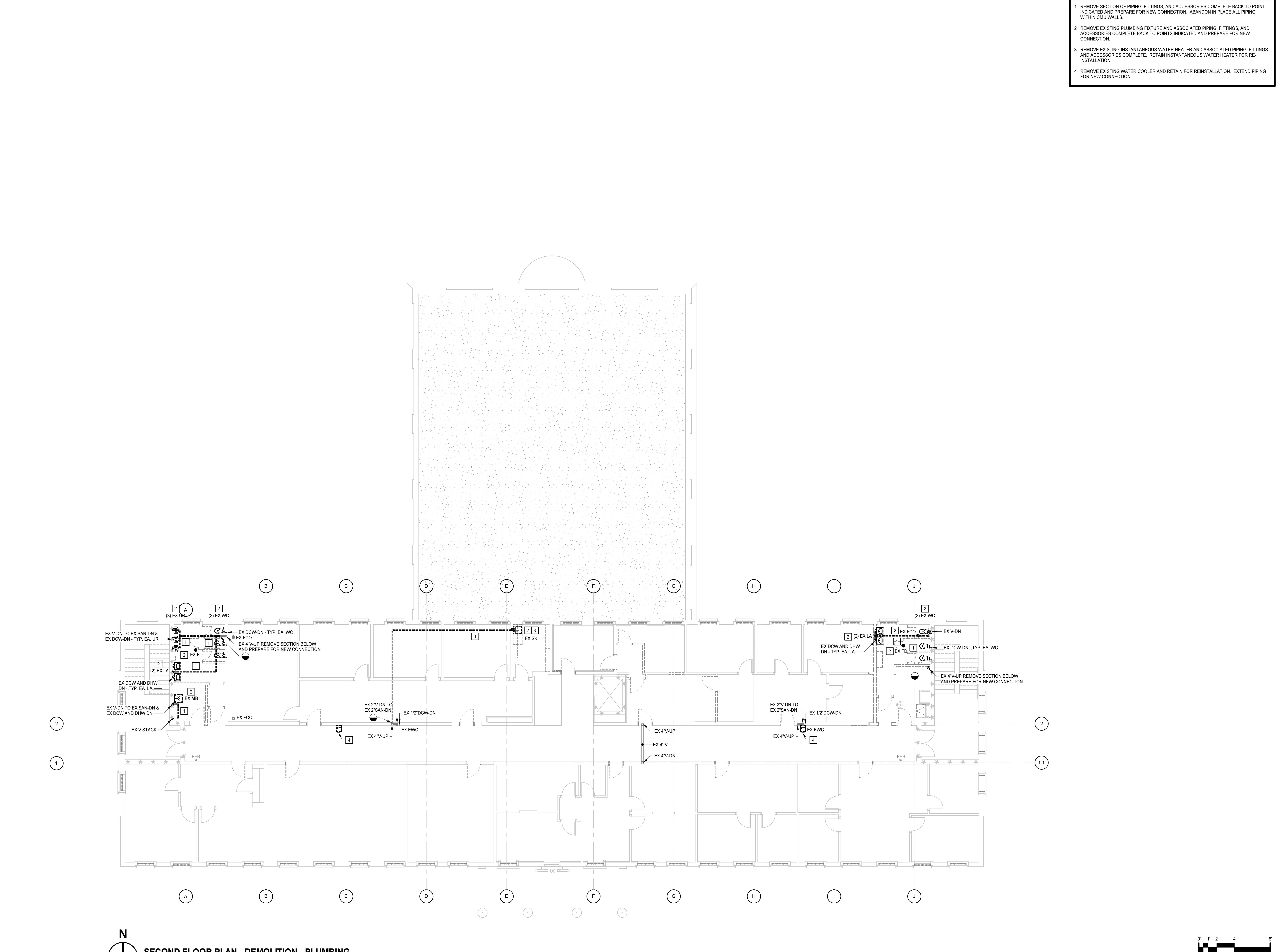
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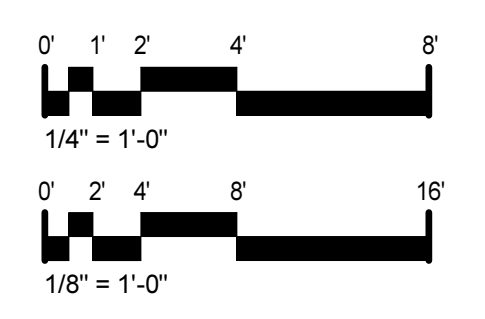


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J
I
H
G
F
E
D
C
B
A



SECOND FLOOR PLAN - DEMOLITION - PLUMBING
1/8" = 1'-0"



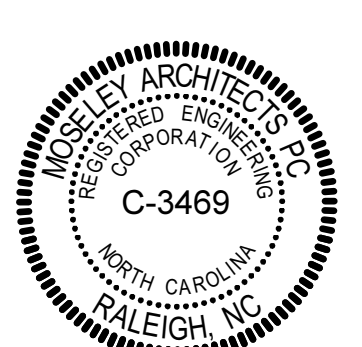
KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY [n]

1. REMOVE SECTION OF PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO POINT INDICATED AND PREPARE FOR NEW CONNECTION. ABANDON IN PLACE ALL PIPING WITHIN CMU WALLS.
2. REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO POINTS INDICATED AND PREPARE FOR NEW CONNECTION.
3. REMOVE EXISTING INSTANTANEOUS WATER HEATER AND ASSOCIATED PIPING, FITTINGS AND ACCESSORIES COMPLETE. RETAIN INSTANTANEOUS WATER HEATER FOR RE-INSTALLATION.
4. REMOVE EXISTING WATER COOLER AND RETAIN FOR REINSTALLATION. EXTEND PIPING FOR NEW CONNECTION.

MOSELEYARCHITECTS

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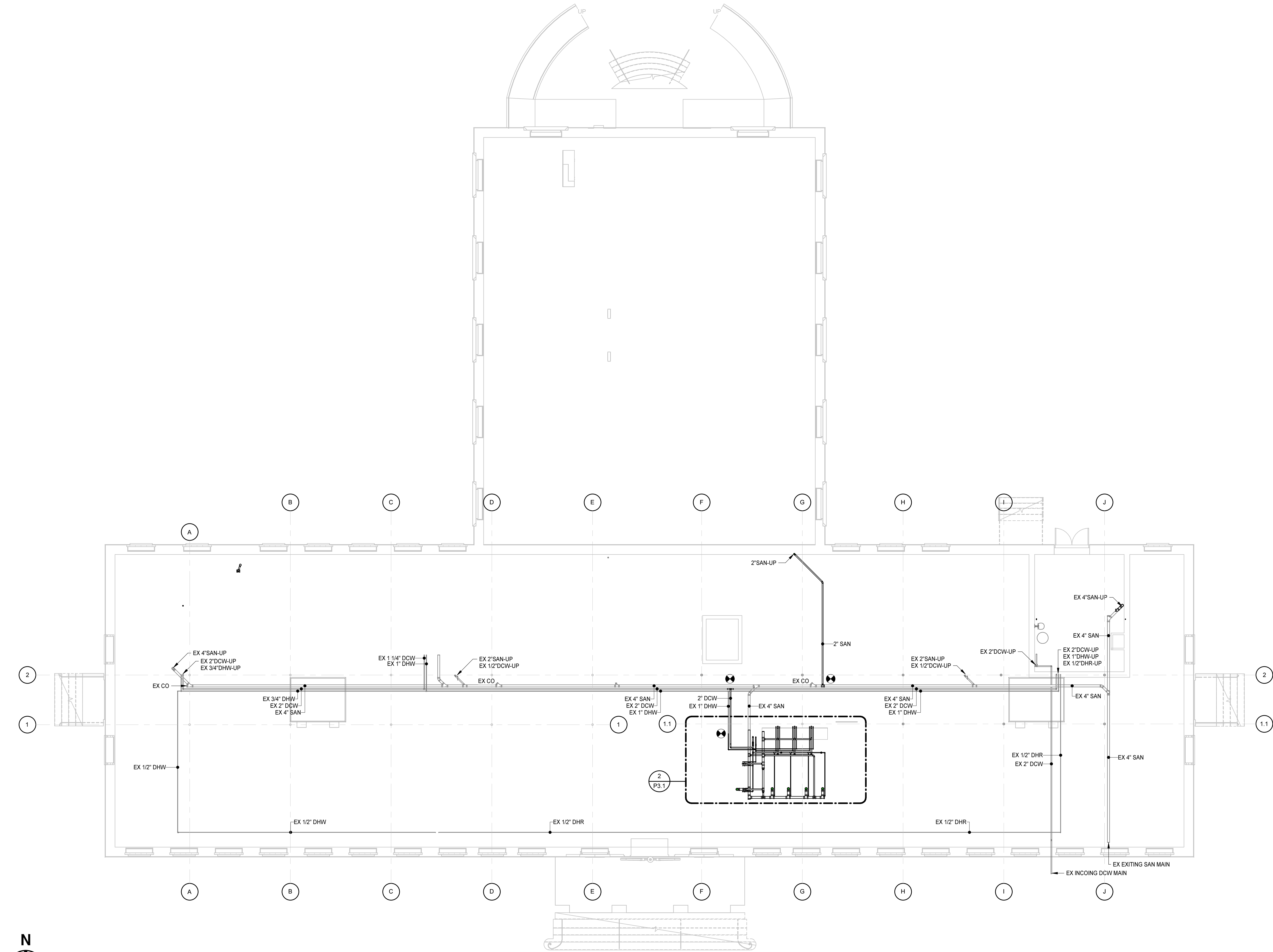


ALDERMAN HALL RENOVATION

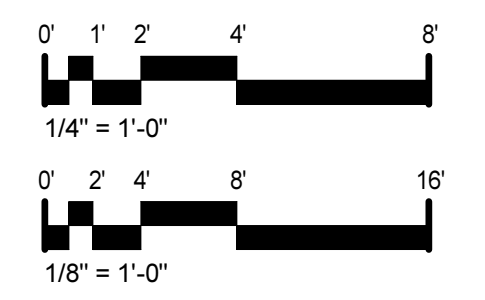
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SCO # 22-24639-01B
601 College Rd, Wilmington, NC 28403

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SECOND FLOOR PLAN -
DEMOLITION -
PLUMBING



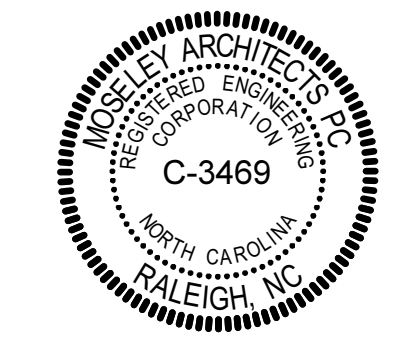
CRAWL SPACE PLAN - PLUMBING
 1/8" = 1'-0"

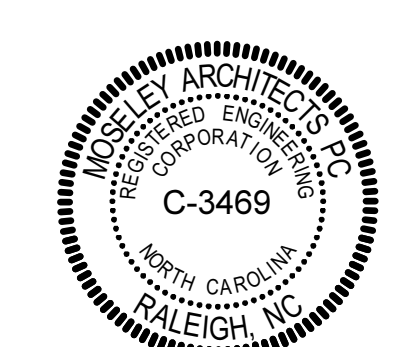


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CRAWL SPACE PLAN - PLUMBING

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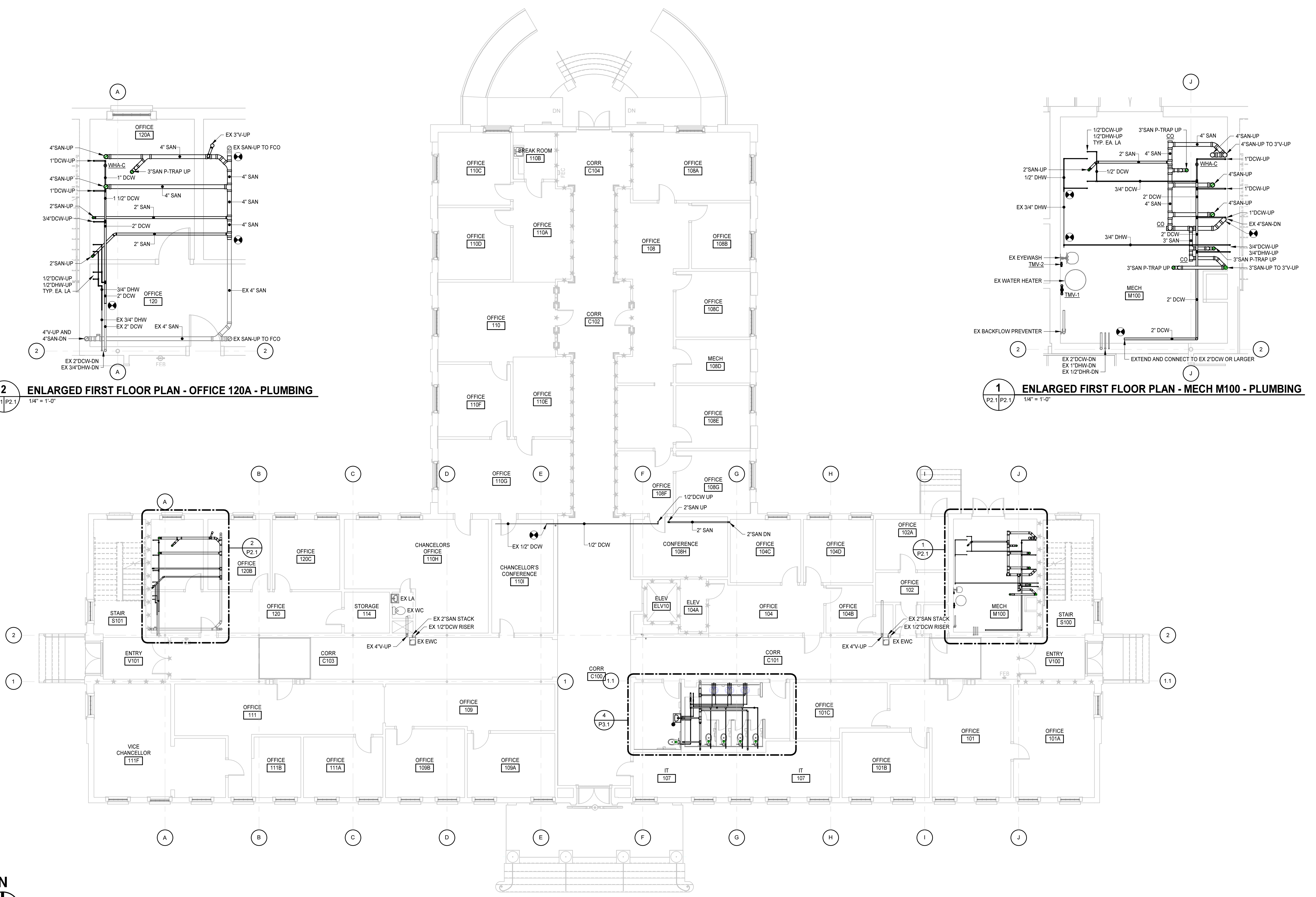


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DATE:	DESCRIPTION:

FIRST FLOOR PLAN - PLUMBING

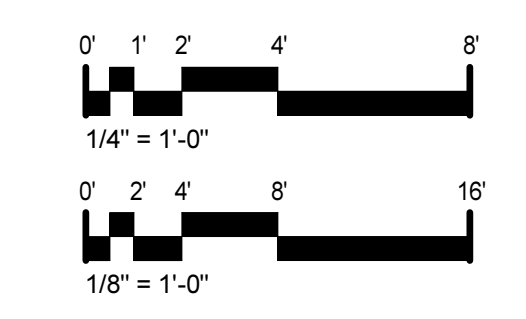
P2.1



2 ENLARGED FIRST FLOOR PLAN - OFFICE 120A - PLUMBING
 P2.1/P2.1 1/4" = 1'-0"

1 ENLARGED FIRST FLOOR PLAN - MECH M100 - PLUMBING
 P2.1/P2.1 1/4" = 1'-0"

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

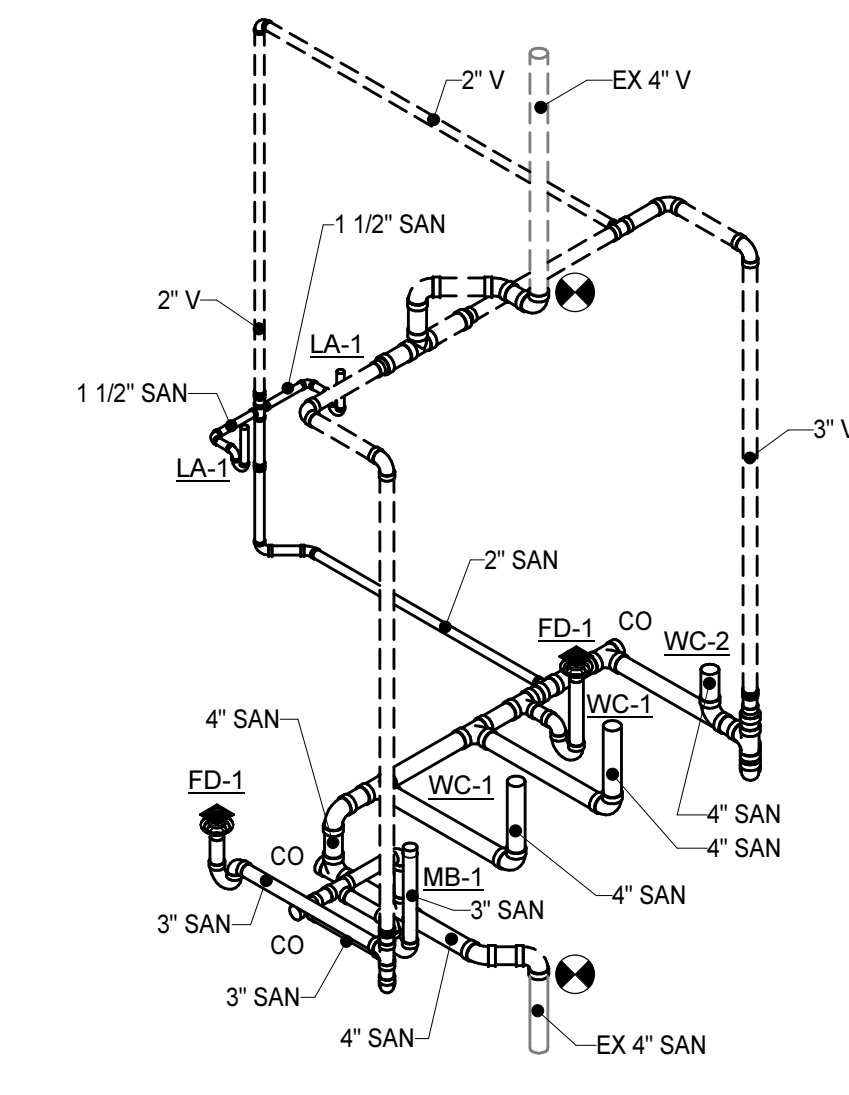




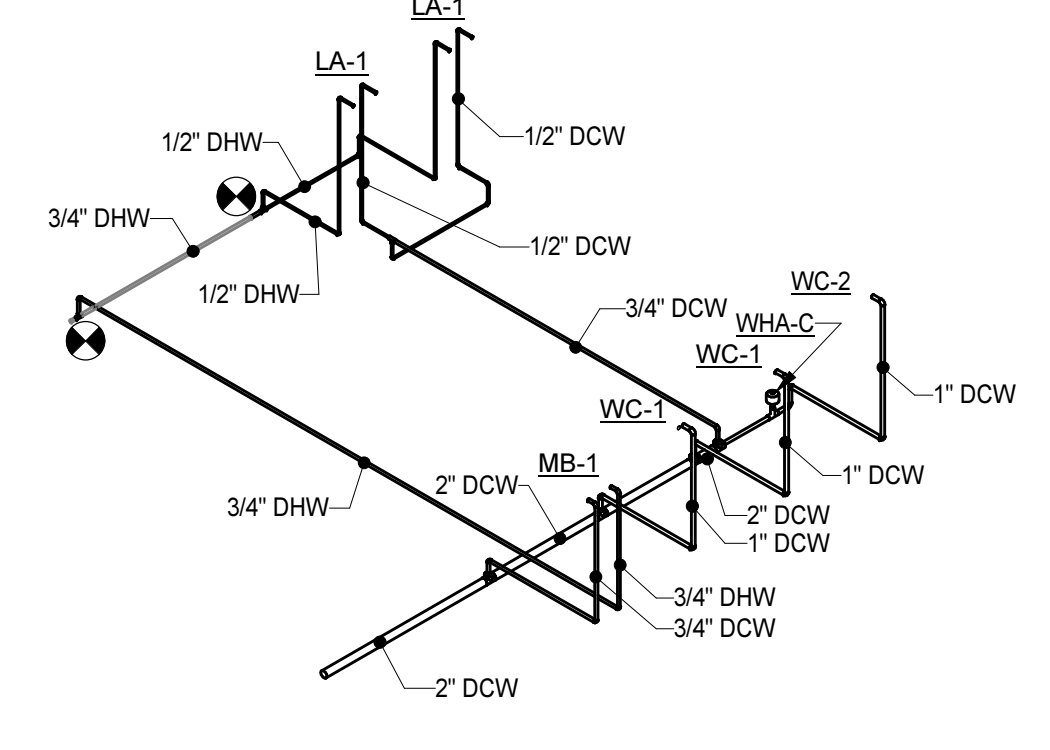
PROJECT NO:	620589
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DATE	DESCRIPTION

KEYNOTES
 APPLIES TO THIS DRAWING
 REPRESENTED BY [n]

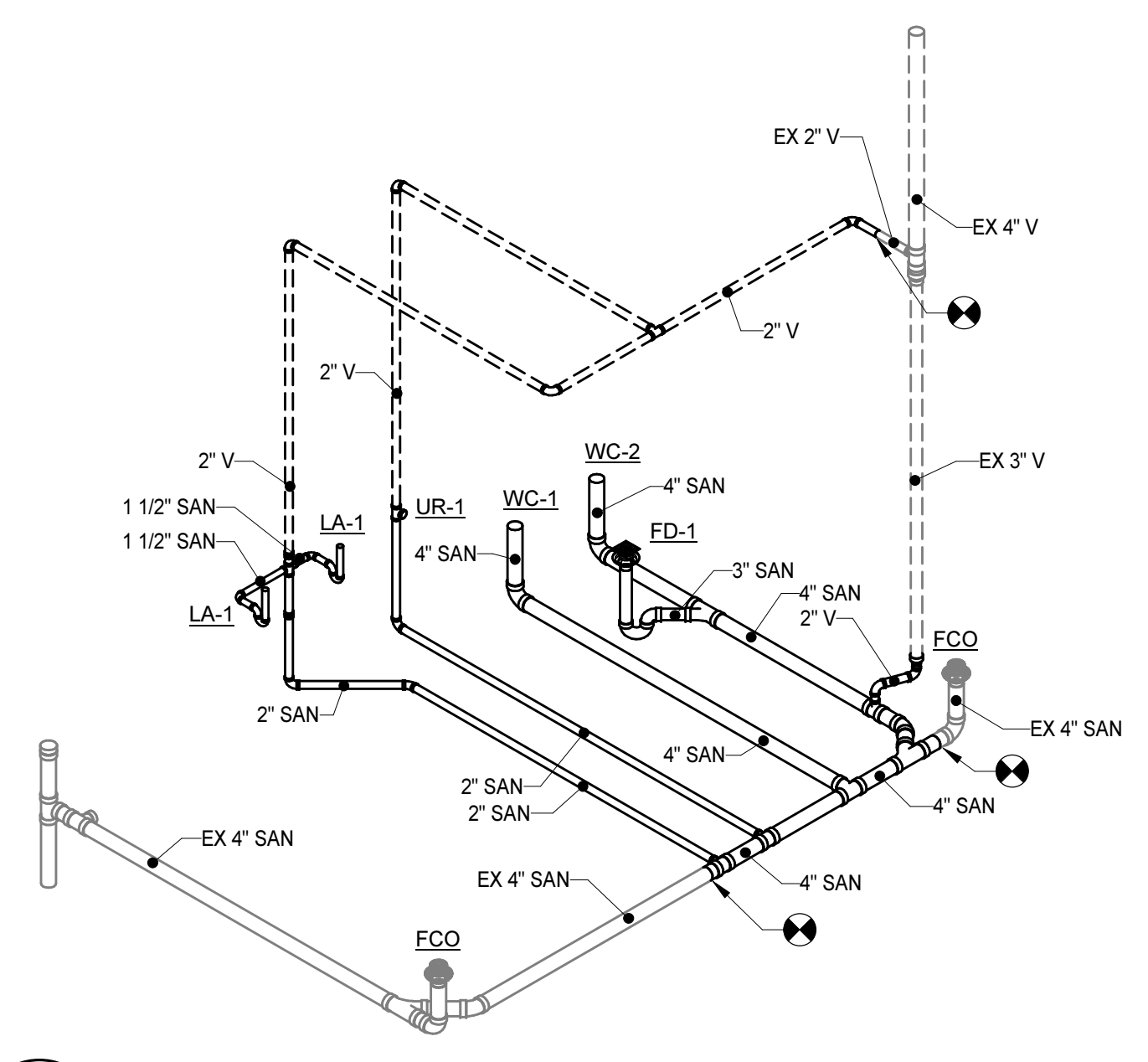
- RE-INSTALL EXISTING WATER COOLER. EXTEND PIPING AND RECONNECT.
- PROVIDE NEOPRENE PIPE CLAMPS FOR ALL SANITARY AND VENT PIPING WITHIN SHARED BATHROOM WALL TO ISOLATE PIPE VIBRATIONS FROM WALL FRAMING.



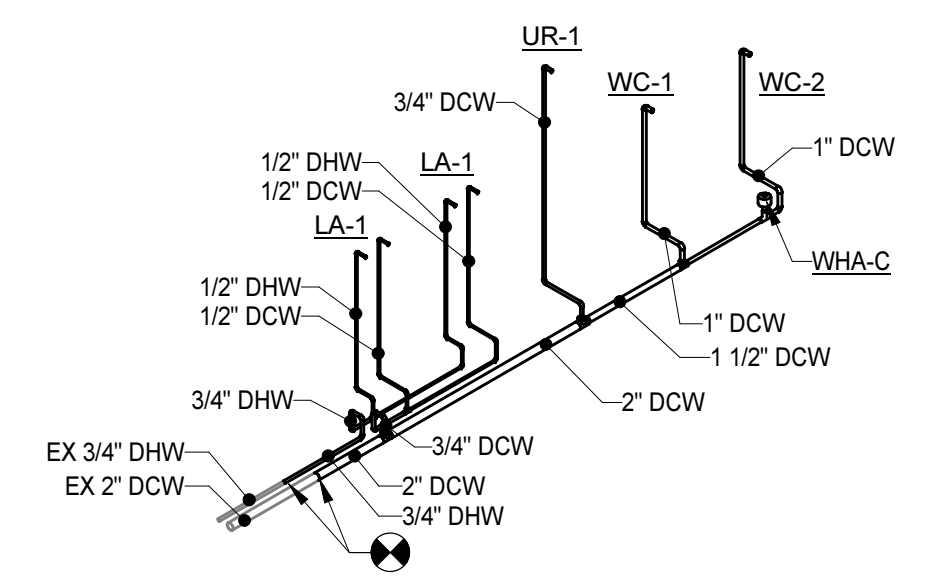
6 SANITARY RISER DIAGRAM - WOMENS R200
 P2.2



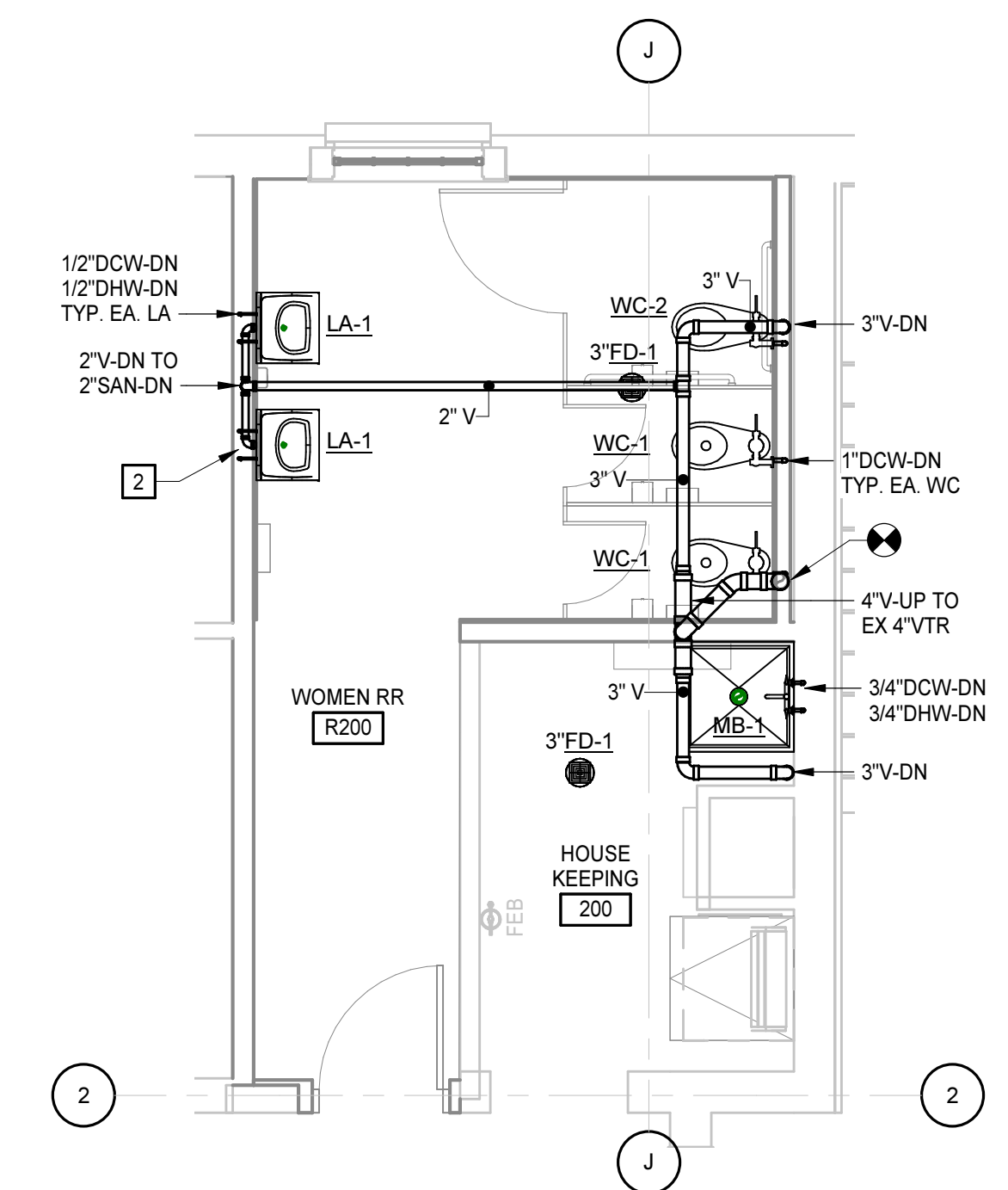
5 DOMESTIC RISER DIAGRAM - WOMENS R200
 P2.2



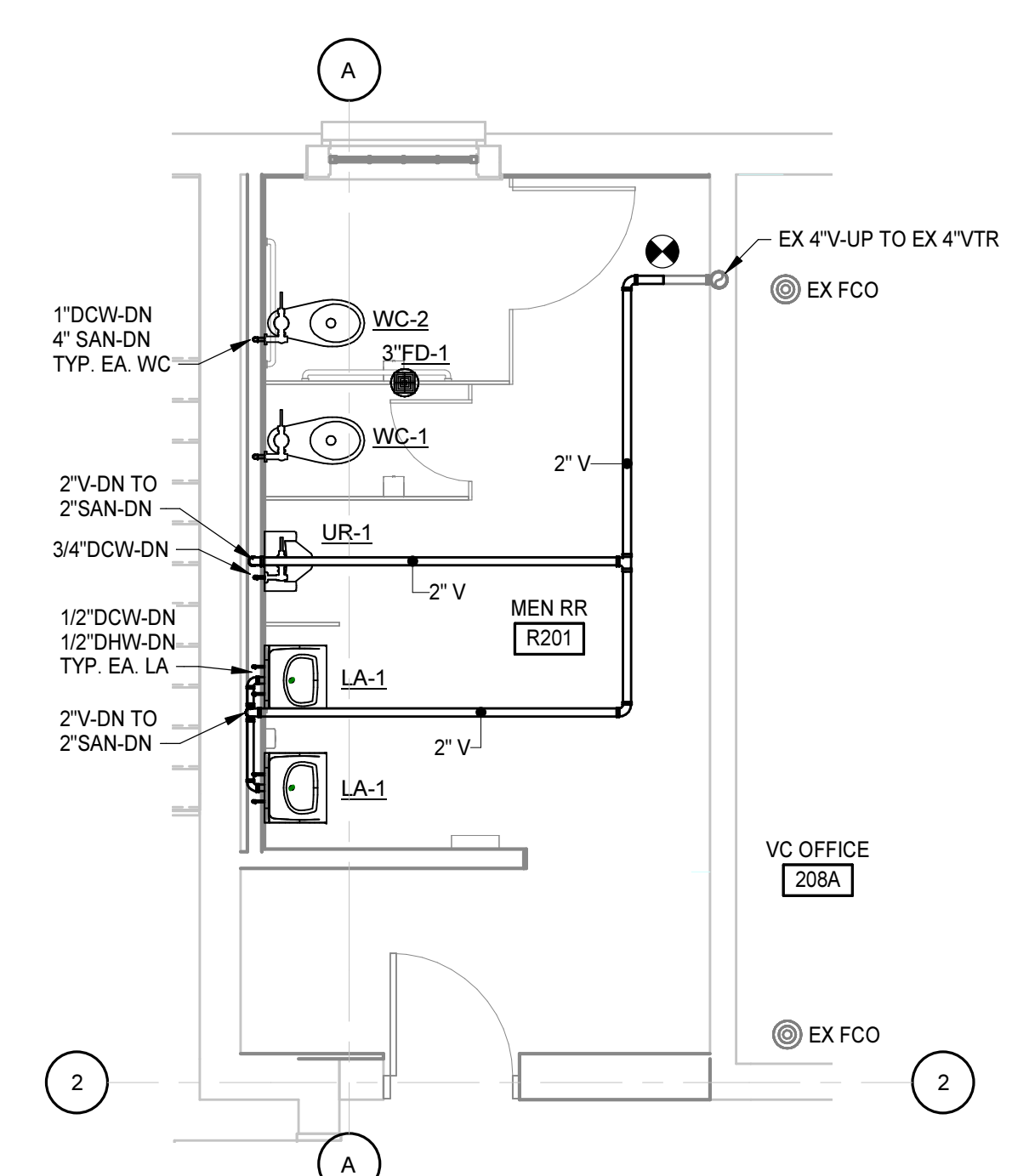
4 SANITARY RISER DIAGRAM - MENS R201
 P2.2



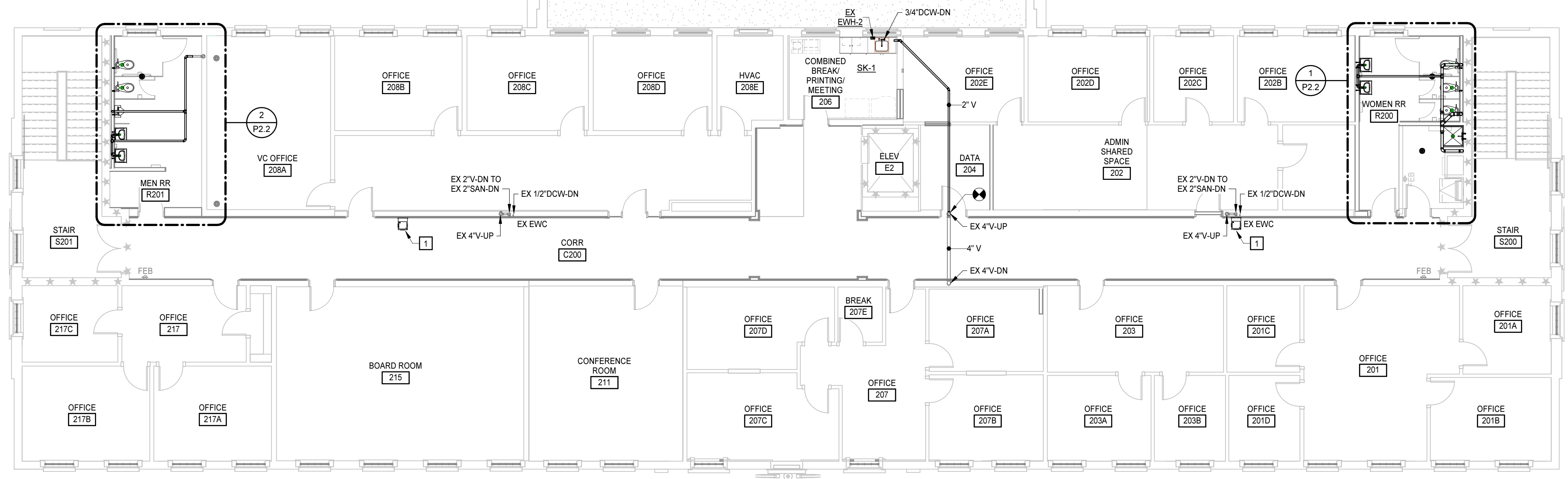
3 DOMESTIC RISER DIAGRAM - MENS R201
 P2.2



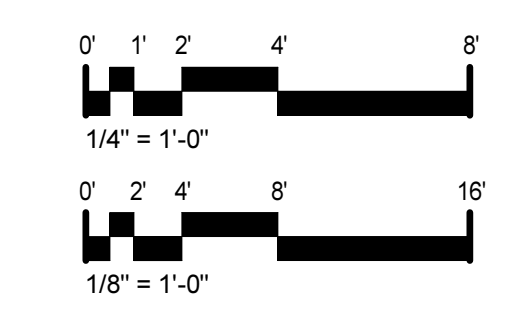
1 ENLARGED SECOND FLOOR PLAN - WOMENS R200 - PLUMBING
 P2.2 P2.2 1/4" = 1'-0"



2 ENLARGED SECOND FLOOR PLAN - MENS R201 - PLUMBING
 P2.2 P2.2 1/4" = 1'-0"

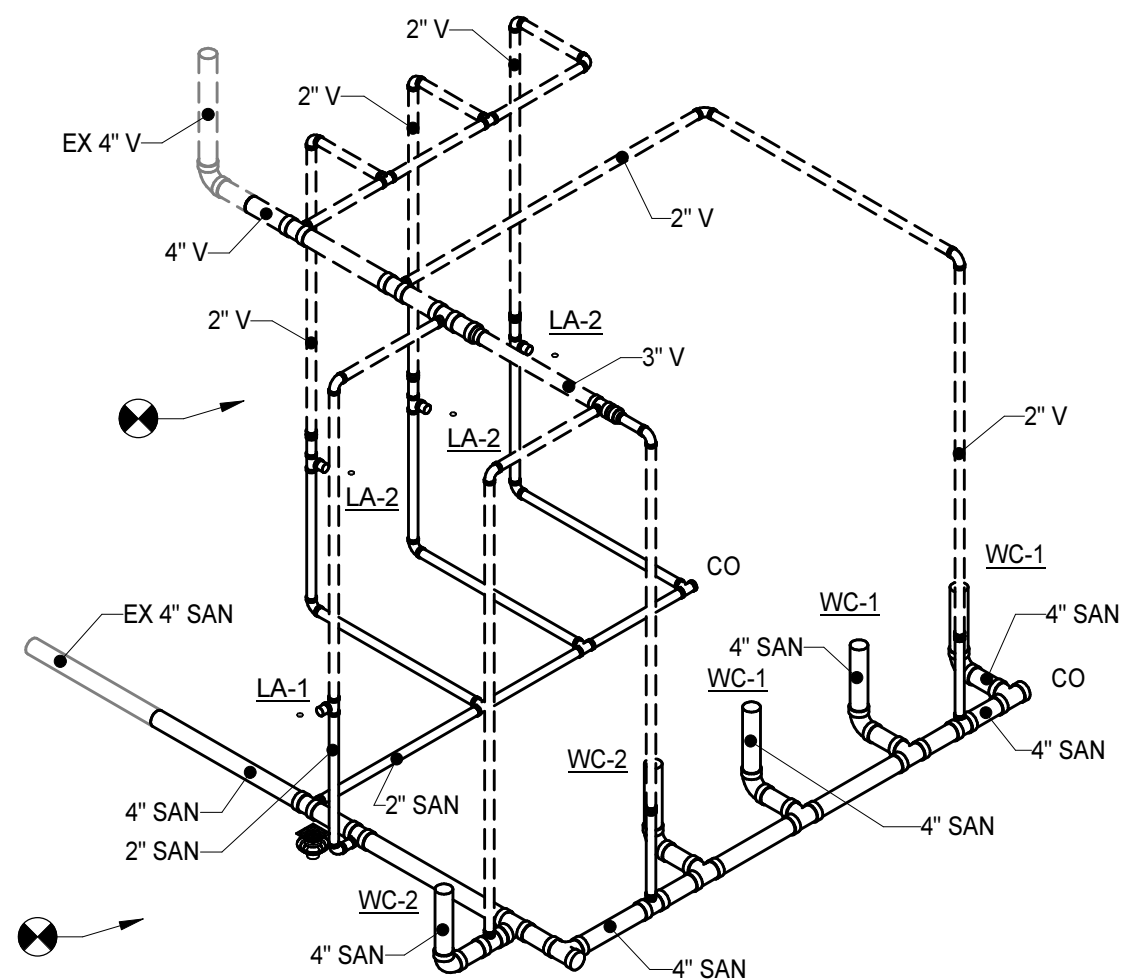


SECOND FLOOR PLAN - PLUMBING
 1/8" = 1'-0"

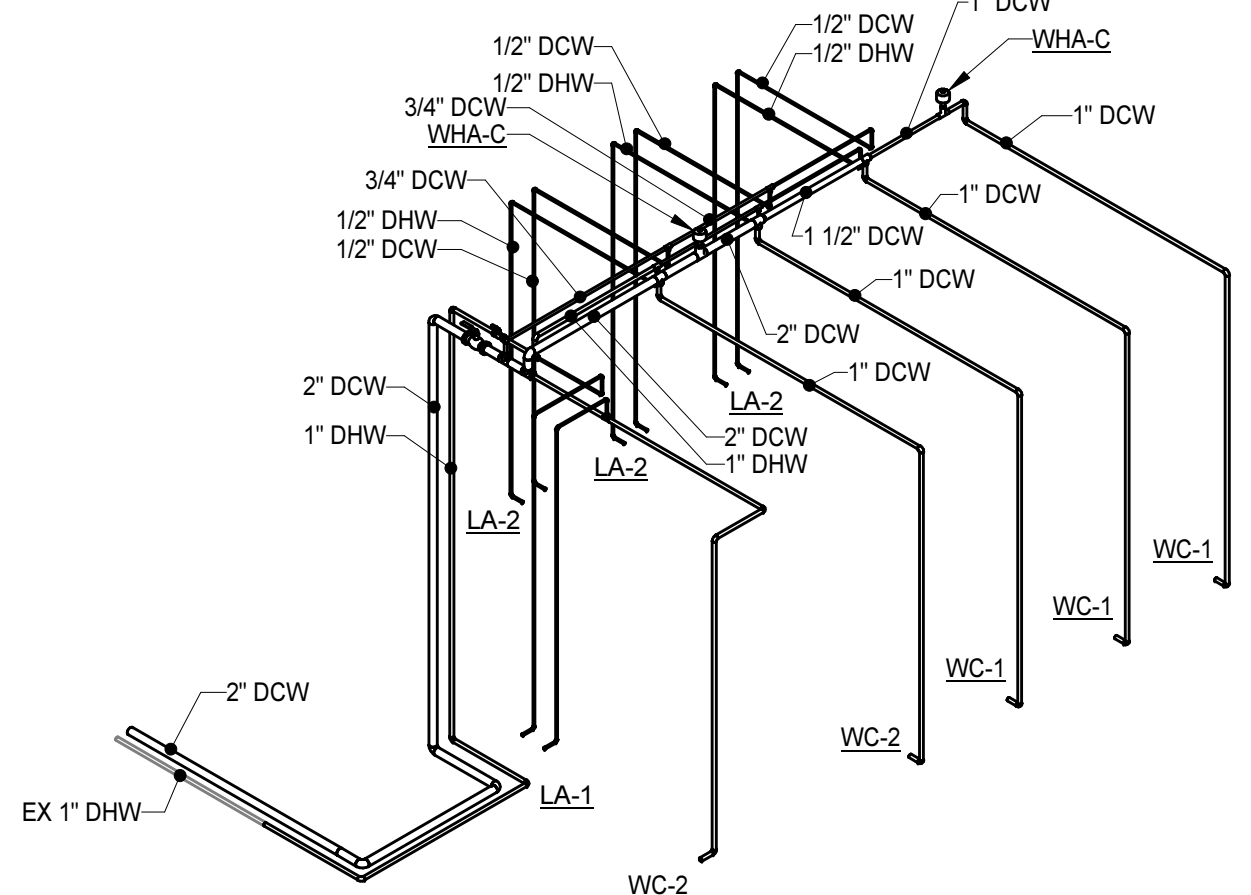


KEYNOTES
 APPLIES TO THIS DRAWING
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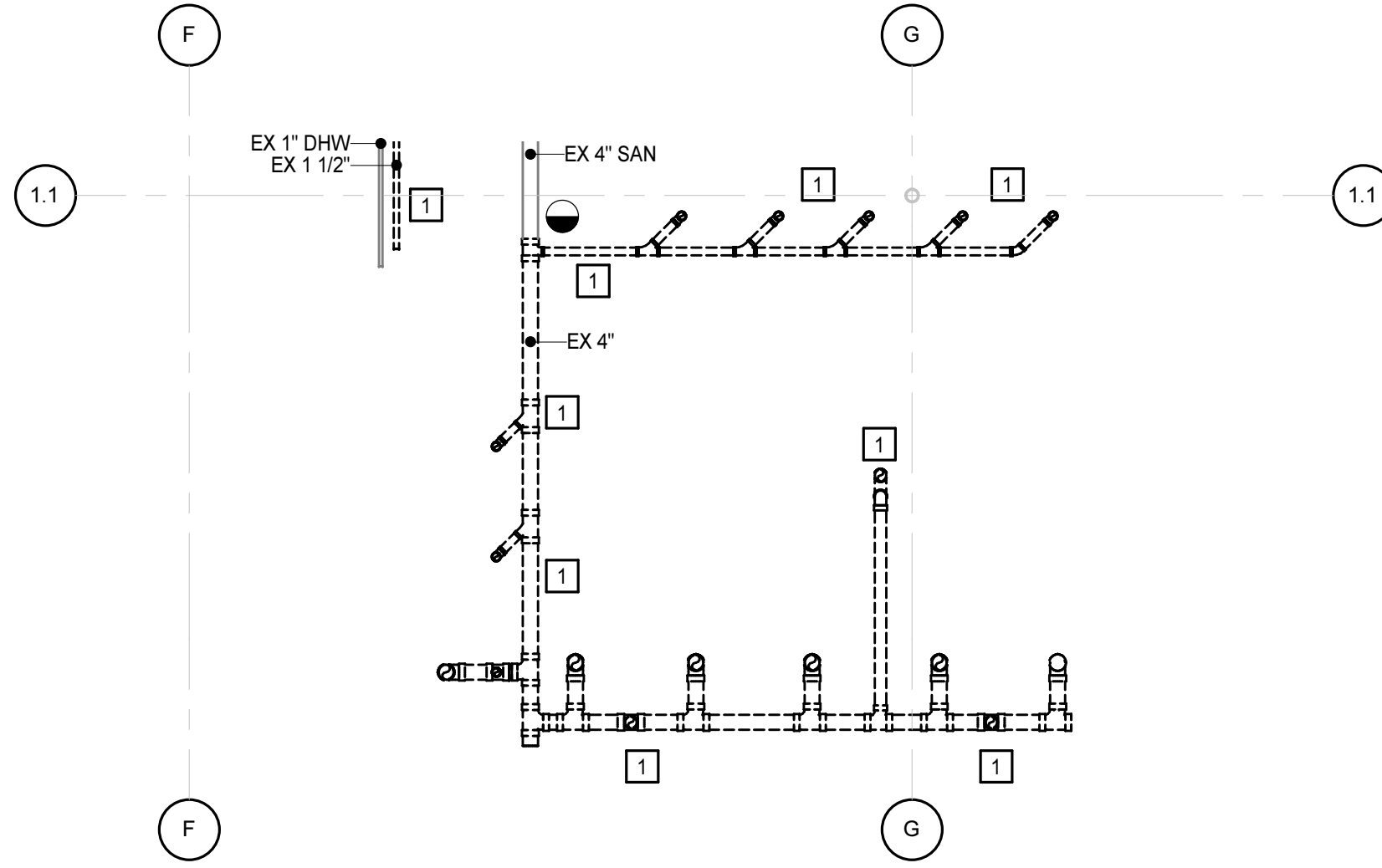
1. REMOVE SECTION OF PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.
2. REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO POINTS INDICATED AND PREPARE FOR NEW CONNECTION.



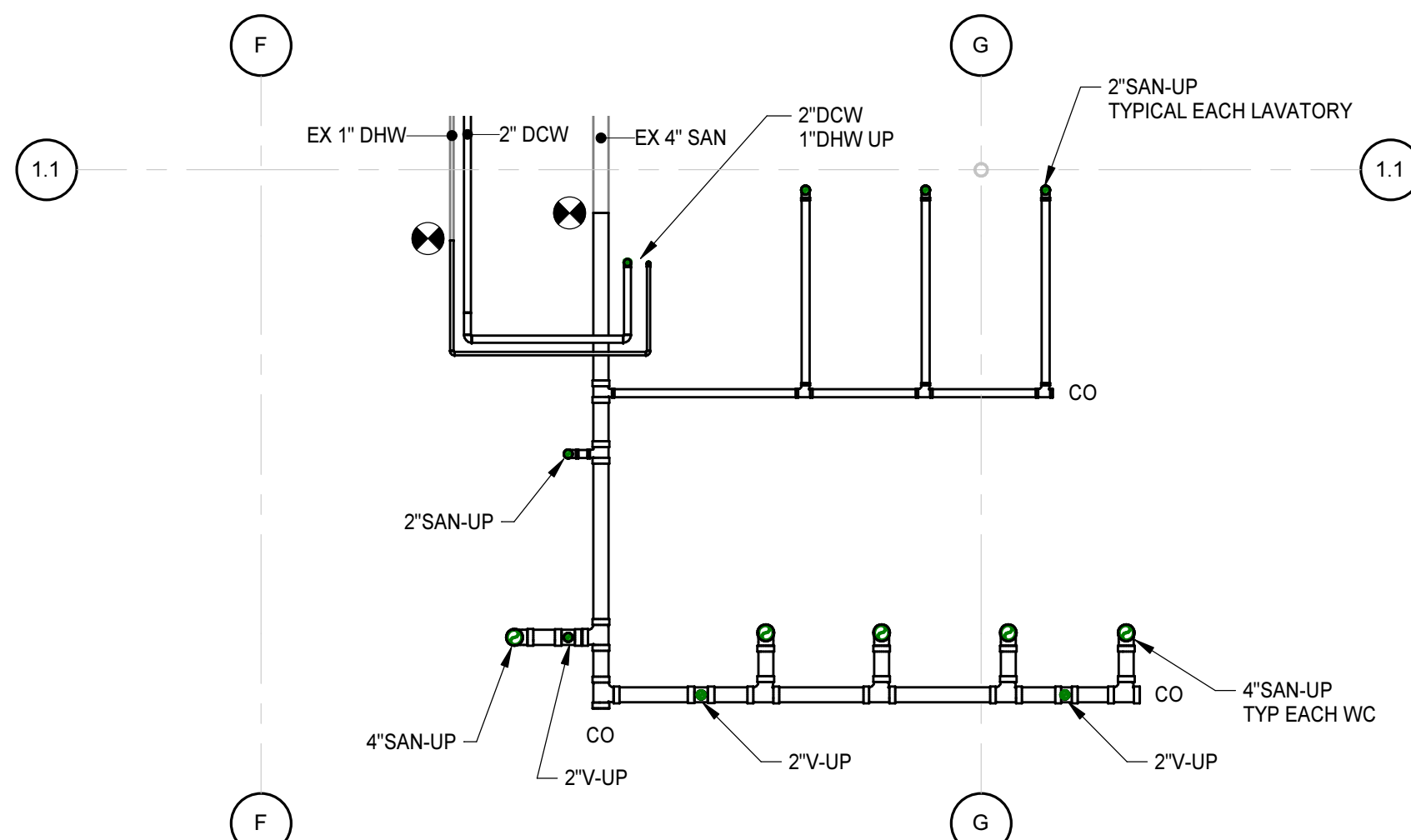
6 DOMESTIC RISER DIAGRAM - MENS R100 & WOMENS R101
 P3.1



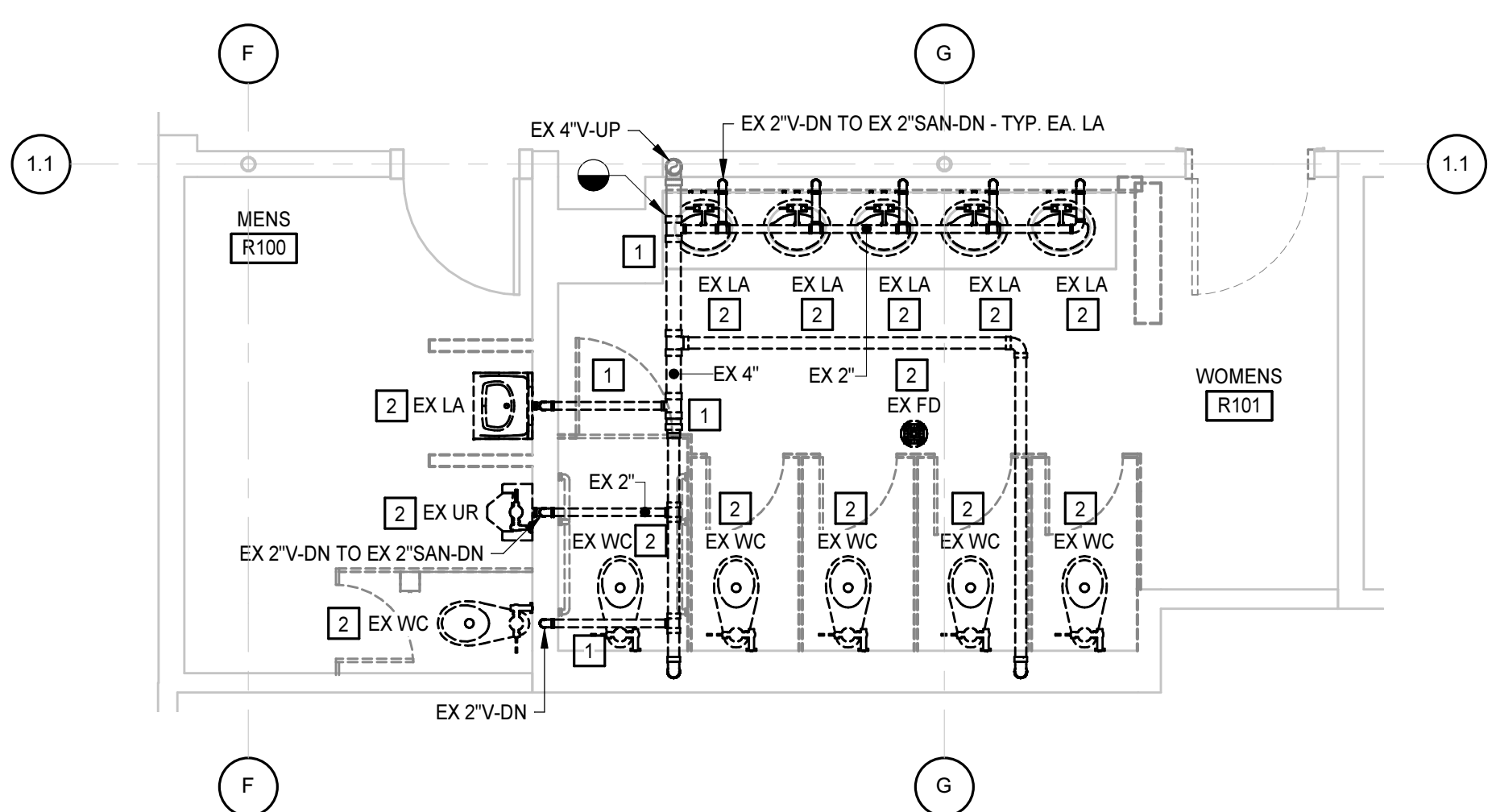
5 DOMESTIC RISER DIAGRAM - MENS R100 & WOMENS R101
 P3.1



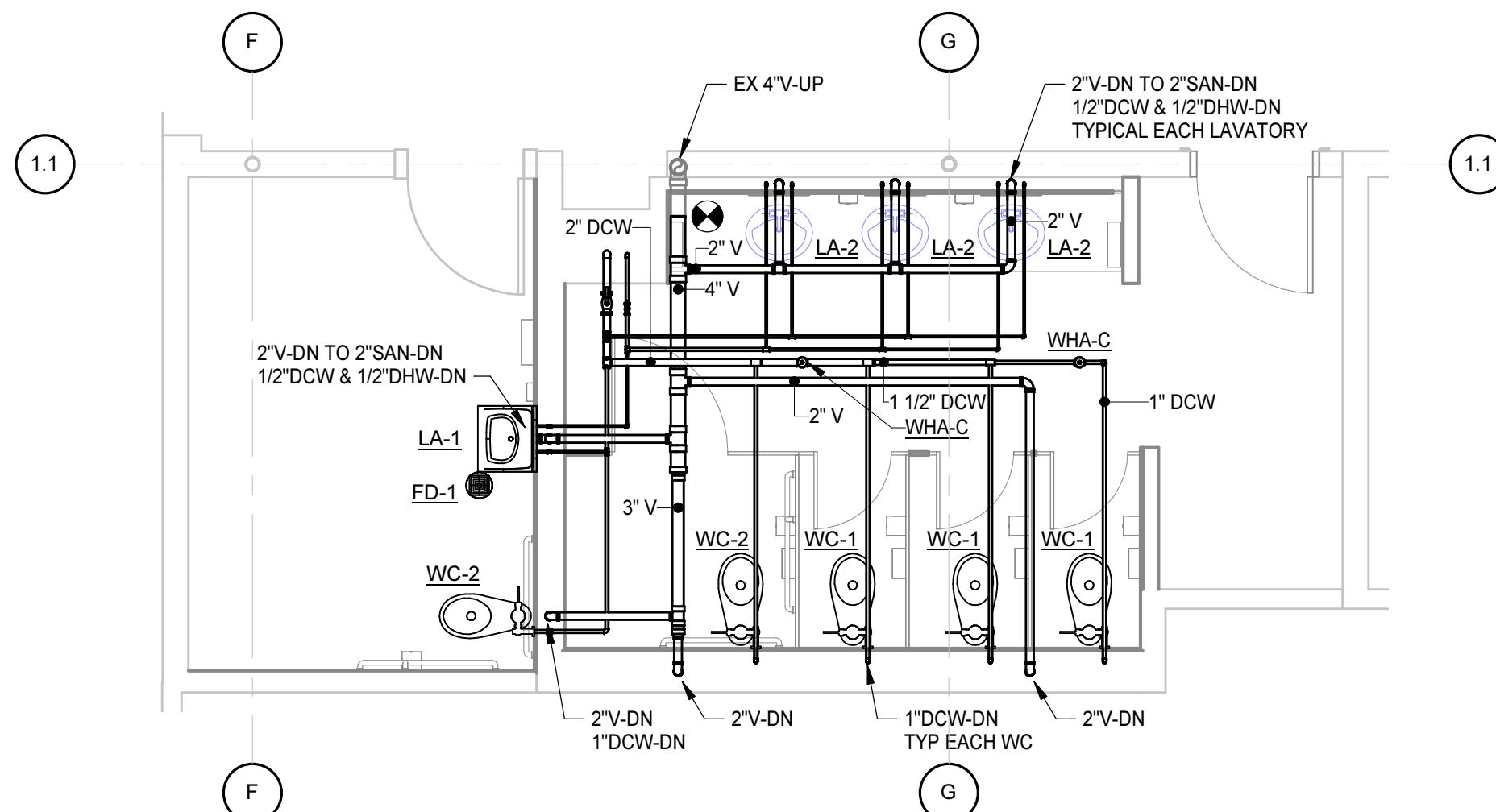
1 ENLARGED CRAWL SPACE PLAN - MENS R100 & WOMENS R101 - DEMOLITION
 P1.0 | P3.1
 1/4" = 1'-0"



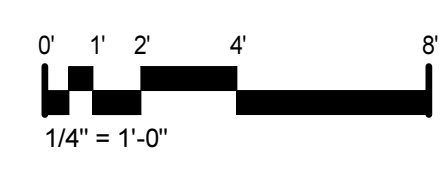
2 ENLARGED CRAWL SPACE PLAN - MENS R100 & WOMENS R101 - PLUMBING
 P2.0 | P3.1
 1/4" = 1'-0"



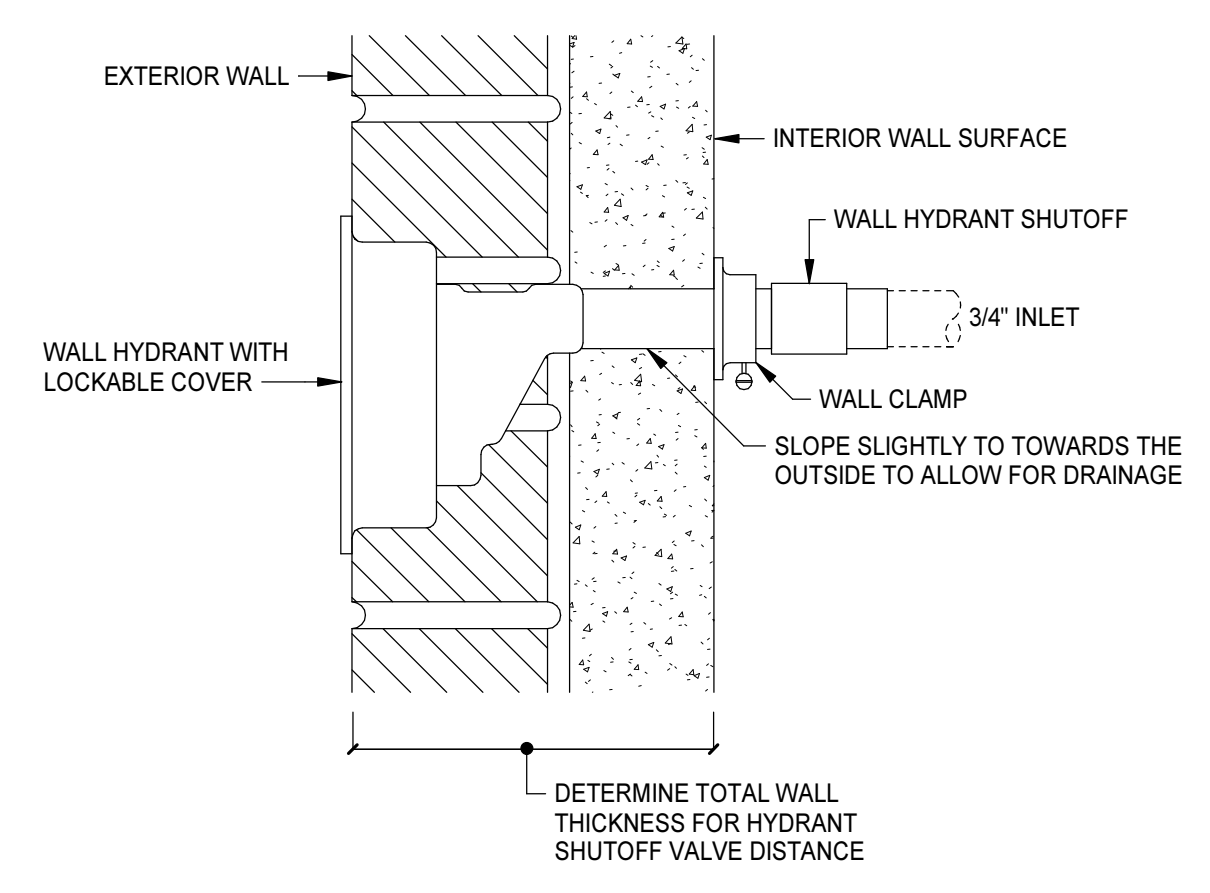
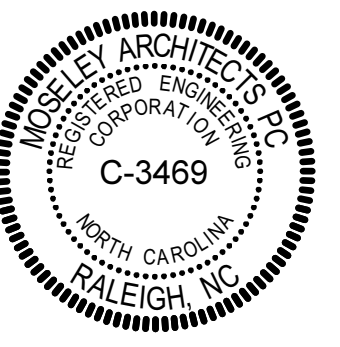
3 ENLARGED FIRST FLOOR PLAN - MENS R100 & WOMENS R101 - DEMOLITION
 P1.1 | P3.1
 1/4" = 1'-0"



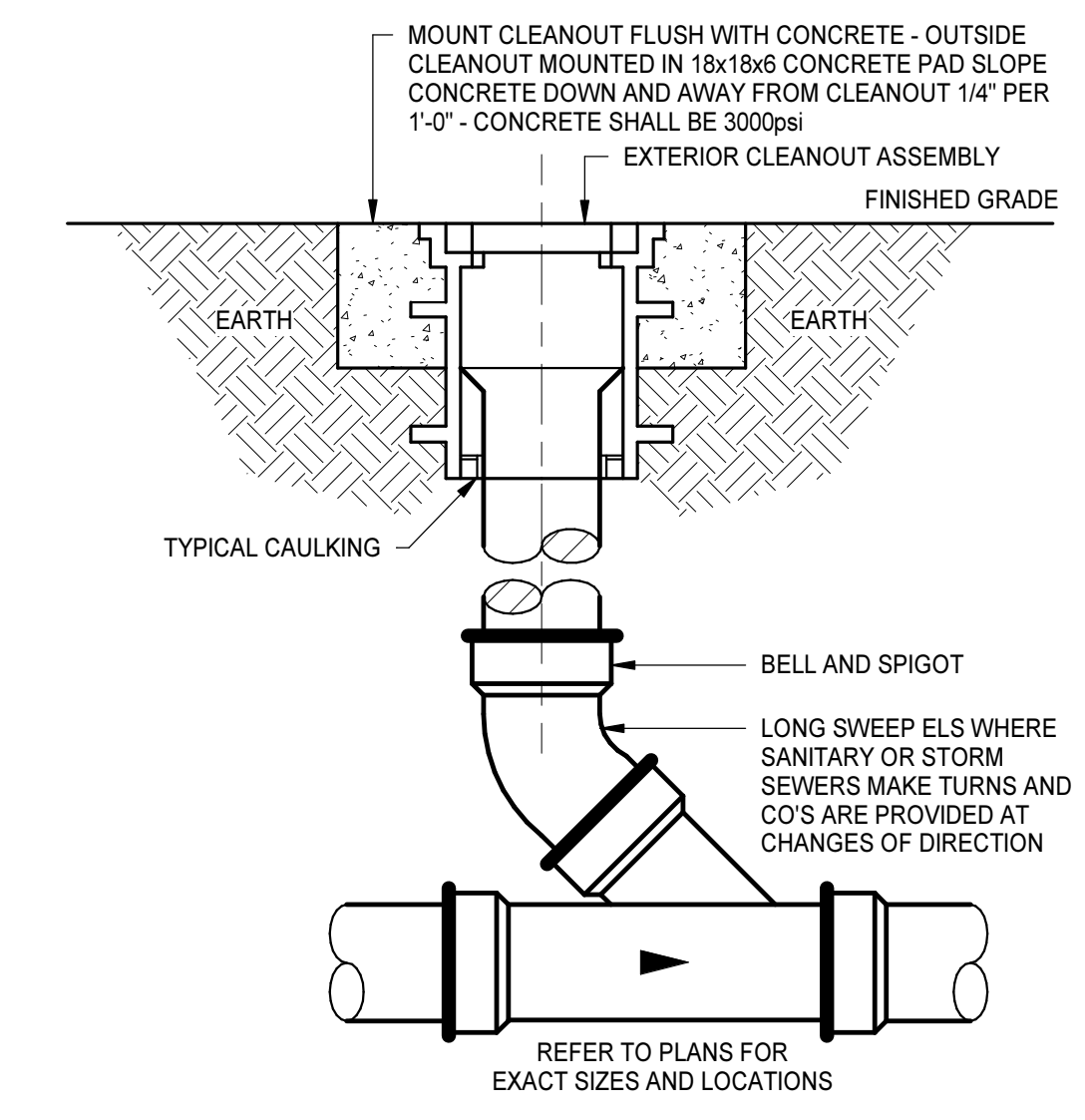
4 ENLARGED FIRST FLOOR PLAN - MENS R100 & WOMENS R101 - PLUMBING
 P2.1 | P3.1
 1/4" = 1'-0"



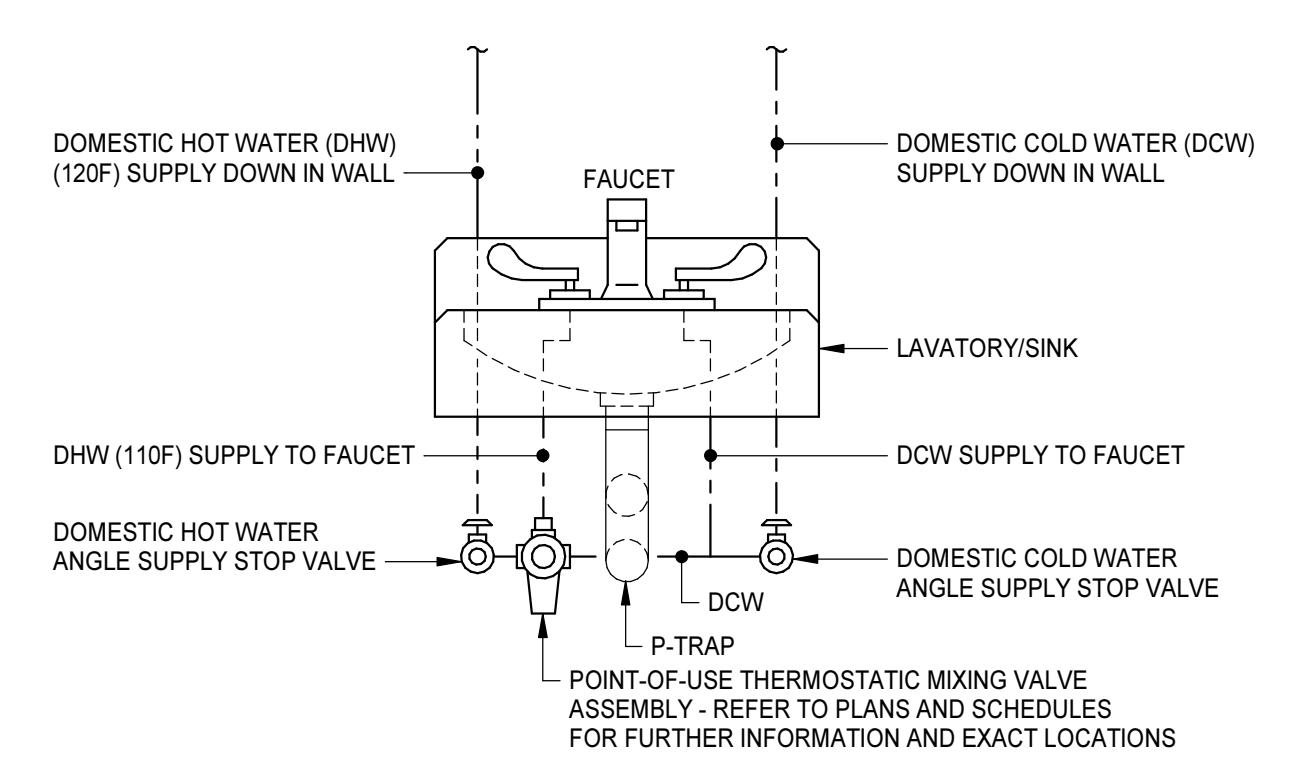
PROJECT NO:	620589
DATE:	DECEMBER 11, 2023
REVISIONS	
DATE	DESCRIPTION



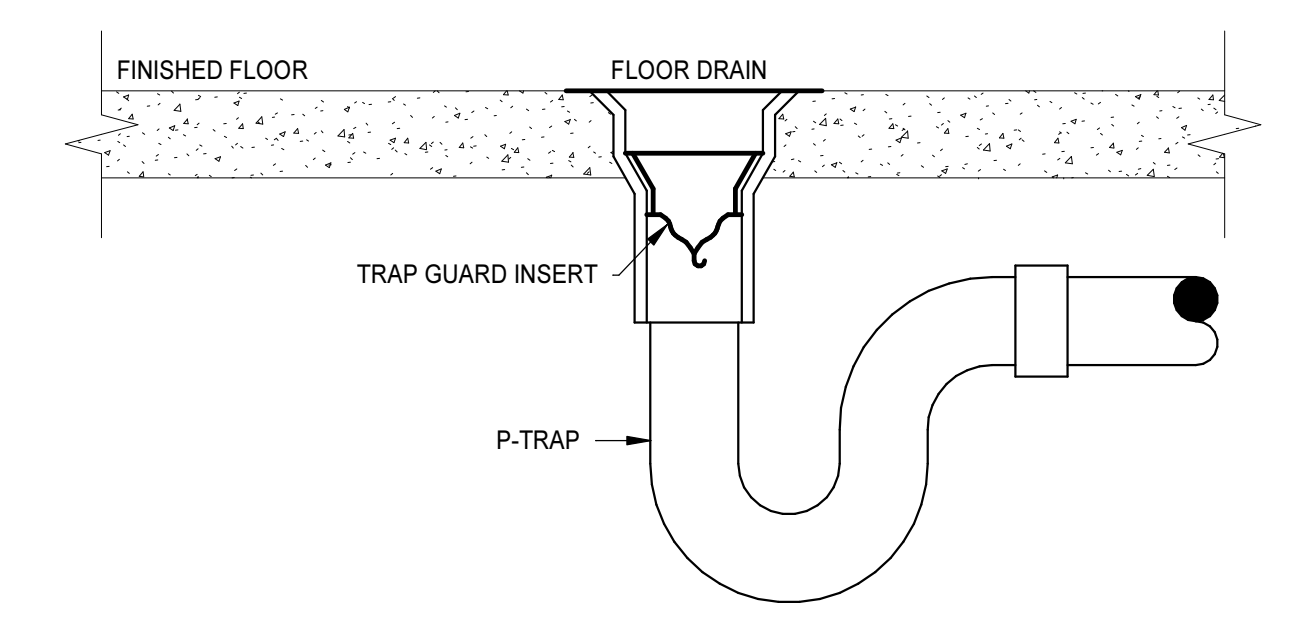
EXTERIOR WALL HYDRANT DETAIL
NO SCALE



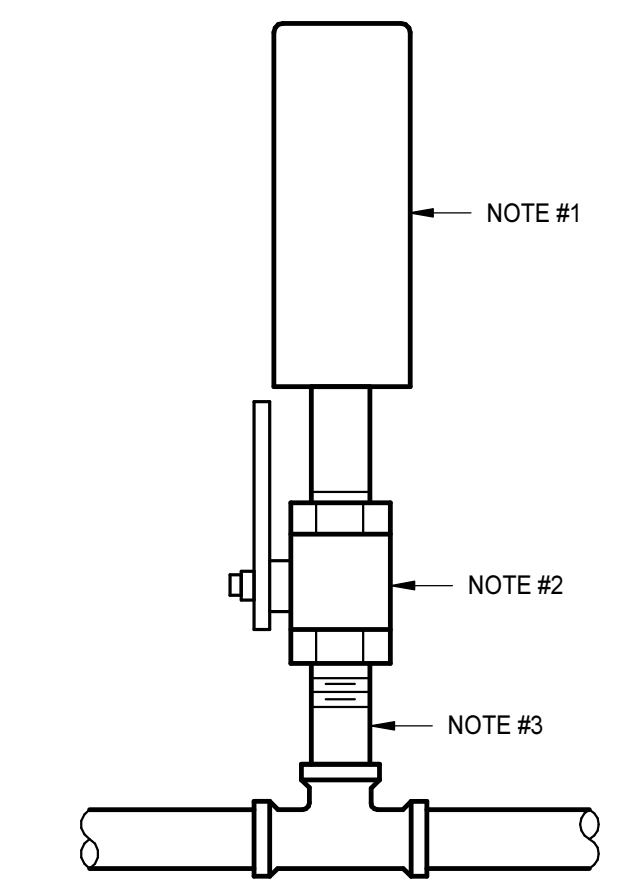
EXTERIOR YARD CLEANOUT DETAIL
NO SCALE



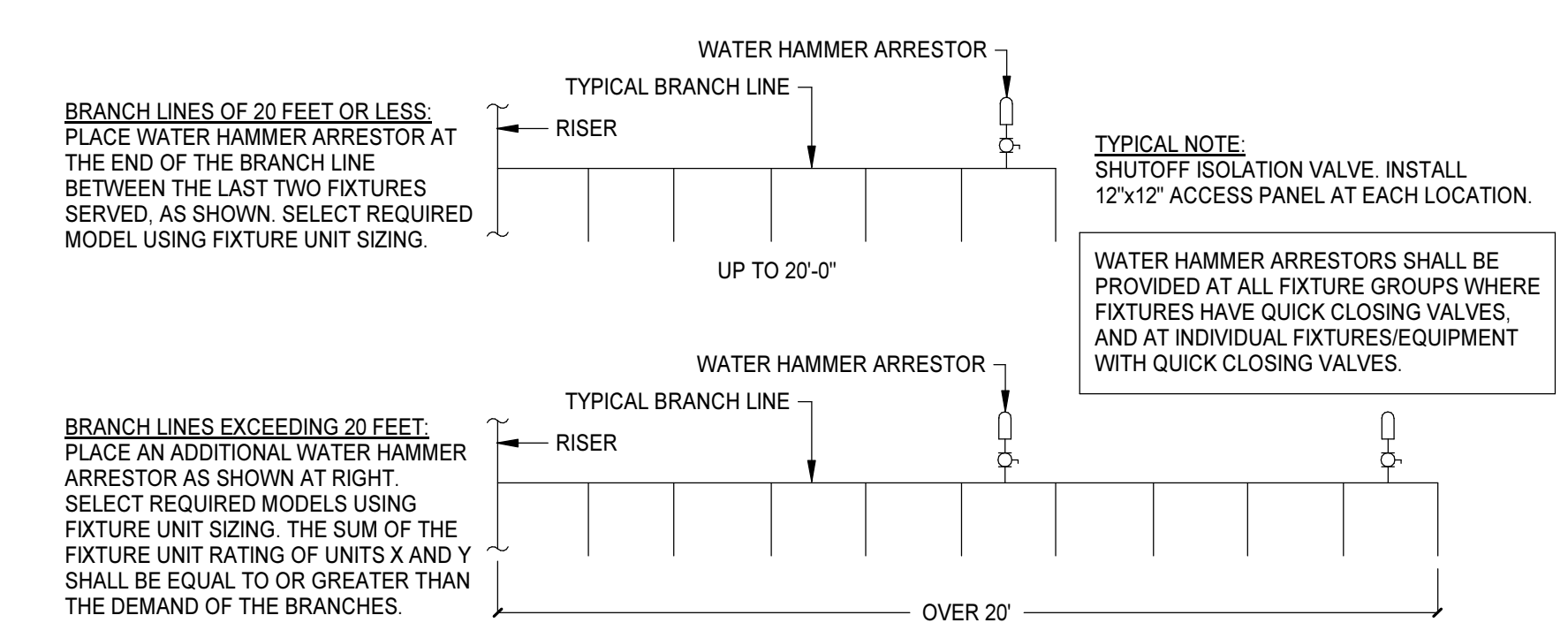
LAVATORY/SINK 1070 VALVE DETAIL
NO SCALE



TRAP GUARD INSERT DETAIL
NO SCALE



WALL CLEANOUT DETAIL
NO SCALE



P.D.I. WATER HAMMER ARRESTORS

LENGTH OF PIPE	NOMINAL PIPE DIAMETERS					
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25'	A	A	B	C	D	E
50'	A	B	C	D	E	F
75'	B	C	D	AE	F	EF
100'	C	D	E	F	CF	FF
125'	C	D	F	AF	EF	FFF
150'	D	E	F	DF	FF	FFF

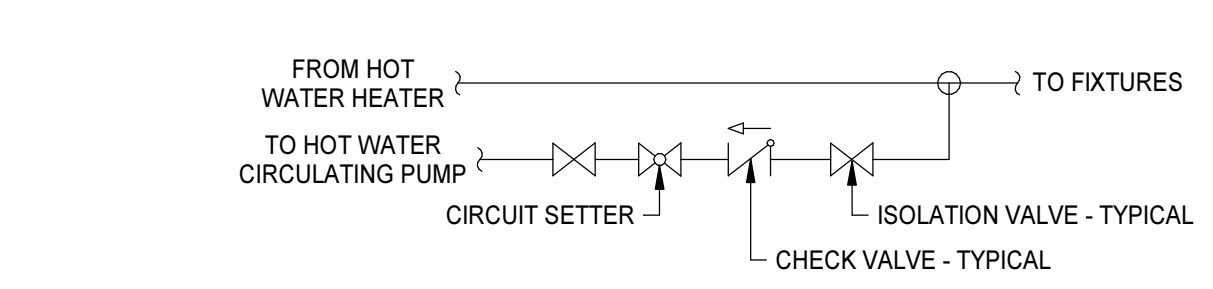
WATER HAMMER ARRESTOR CAPACITIES

CONN. SIZE	PDI SIZE	FIXTURE UNIT CAPACITY	CUBIC INCH VOLUME
1/2"	A	1 TO 11	5
3/4"	B	12 TO 32	7
1"	C	33 TO 60	11
1"	D	61 TO 113	20
1"	E	114 TO 154	29
1"	F	155 TO 330	34

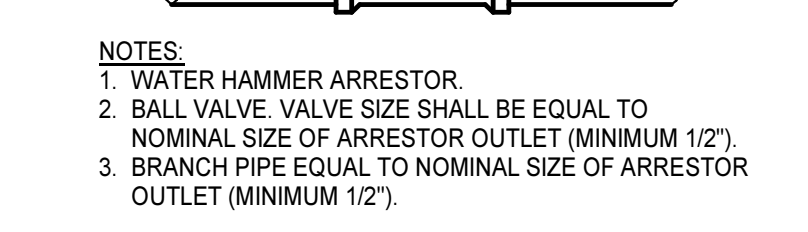
SHOCK ABSORBER SELECTION TABLE

CODE	PDI SIZE	FIXTURE UNITS
SA-1	A	1-11
SA-2	B	12-32
SA-3	C	33-60
SA-4	D	61-113
SA-5	E	114-154
SA-6	F	155-330

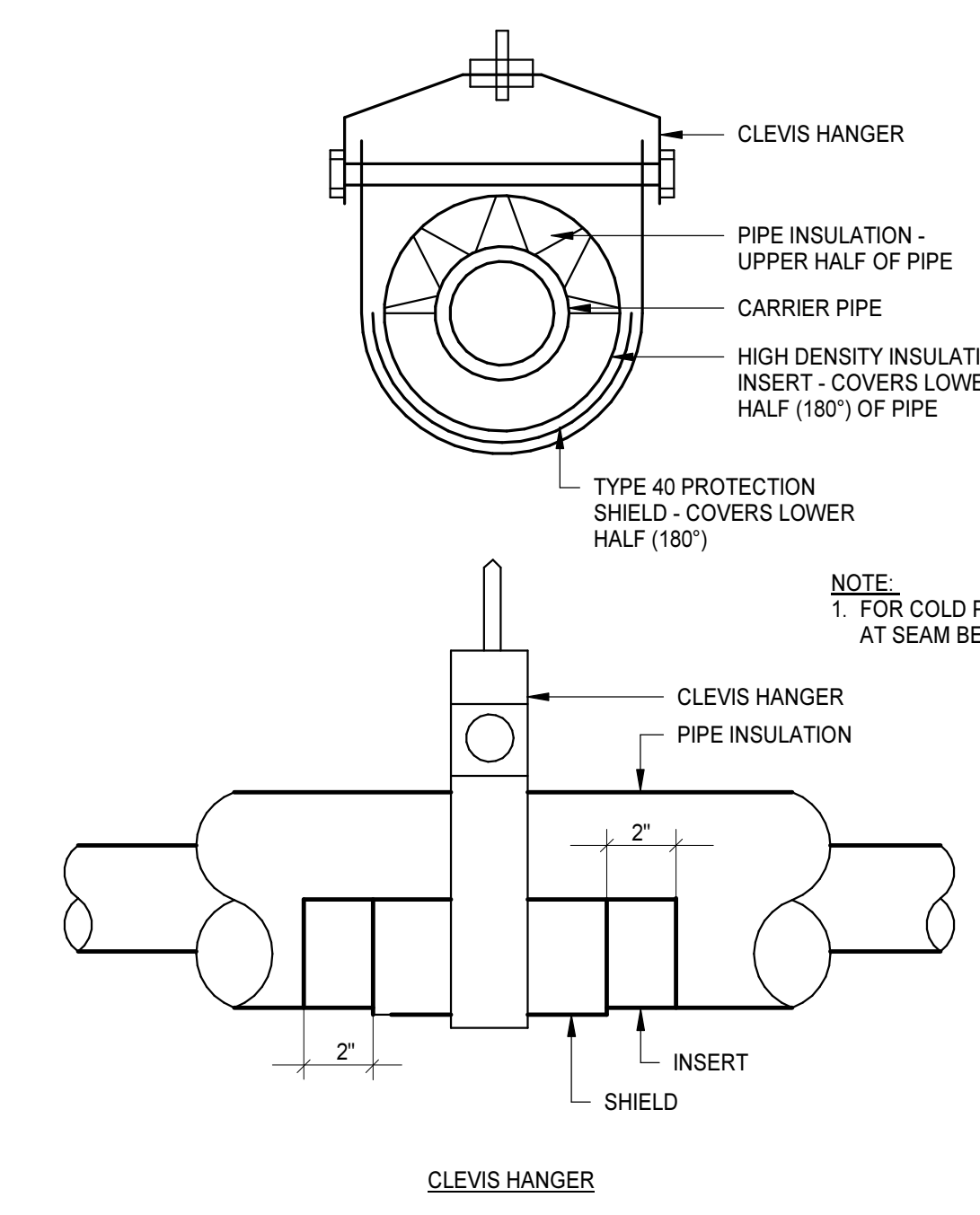
WATER HAMMER ARRESTOR INSTALLATION & SIZING DETAIL
NO SCALE



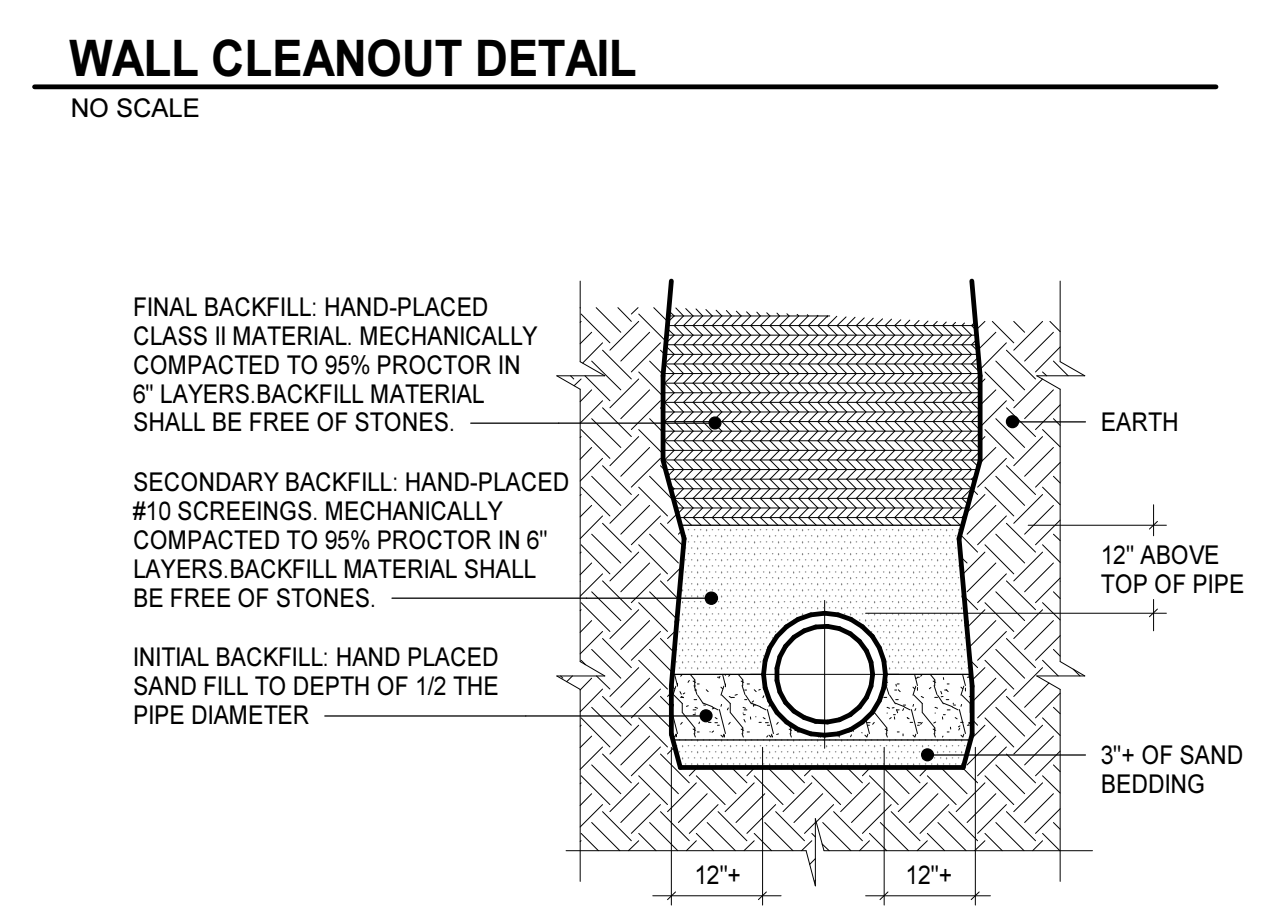
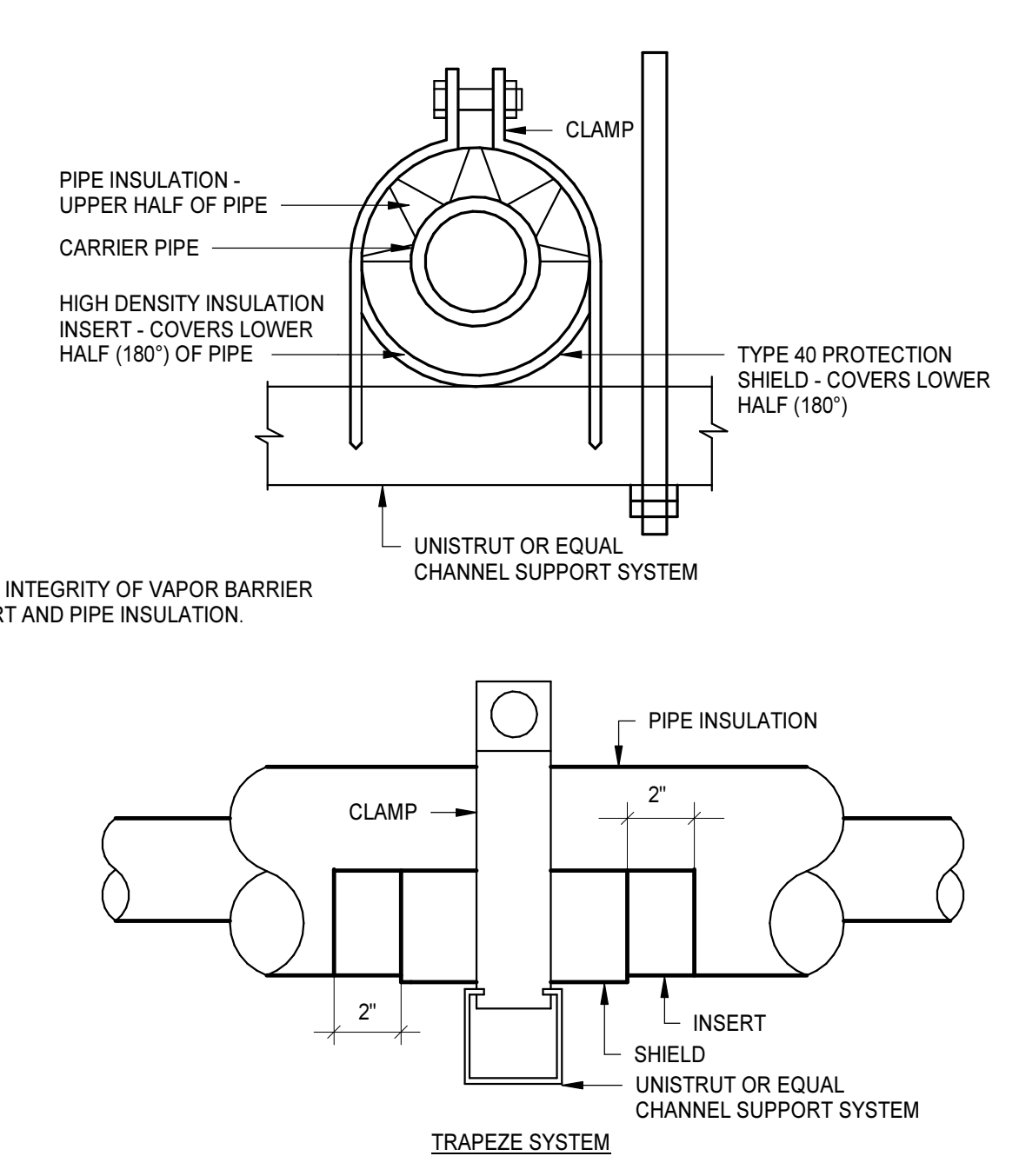
HOT WATER RECIRCULATION BRANCH CONNECTION DETAIL
NO SCALE



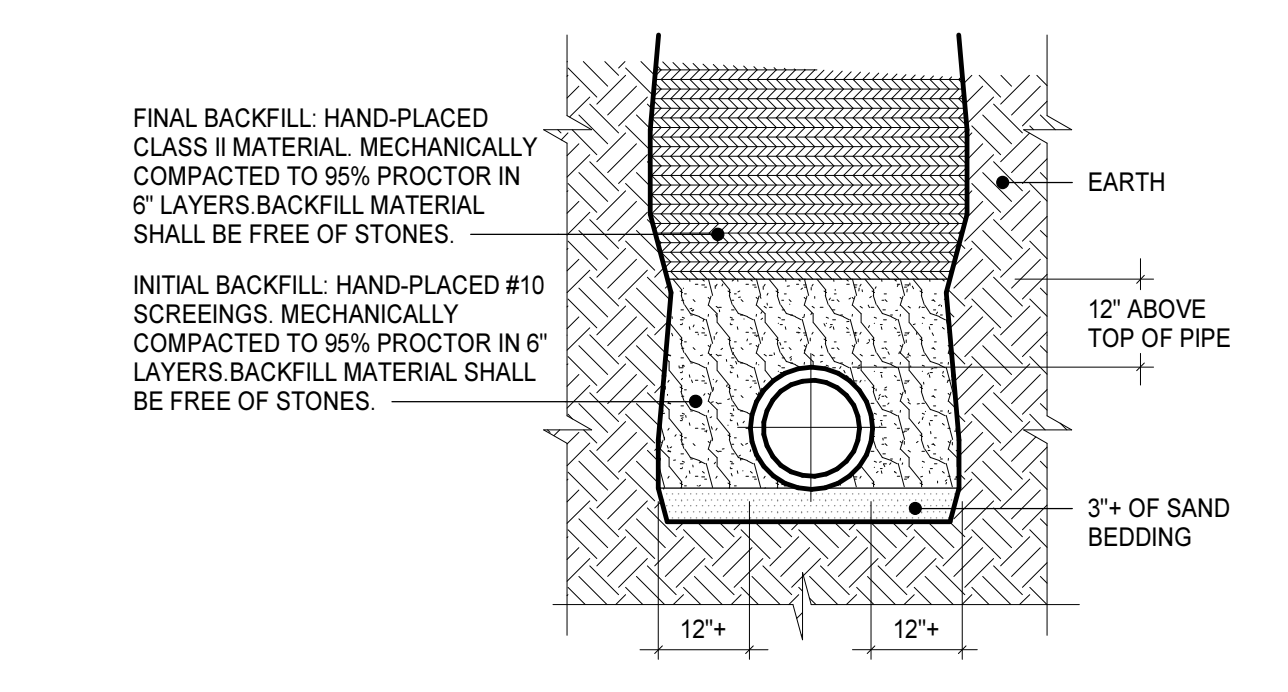
WATER HAMMER ARRESTOR DETAIL
NO SCALE



PIPE SUPPORT AND THERMAL SHIELD DETAILS
NO SCALE



PVC PIPE BEDDING DETAIL
NO SCALE



CAST IRON PIPE BEDDING DETAIL
NO SCALE

ALDERMAN HALL RENOVATION
UNIVERSITY OF NORTH CAROLINA WILMINGTON
SCO # 22-24639-01B

601 College Rd, Wilmington, NC 28403

DATE	REVISIONS	DESCRIPTION
DECEMBER 11, 2023		

DATE	REVISIONS	DESCRIPTION

GENERAL NOTES

- A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- B. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE DRAWINGS. LOCATIONS OF ALL ITEMS INDICATED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION, AND CONTRACTOR'S FABRICATED ITEMS TO ENSURE A PROPER FIT AND INSTALLATION.
- C. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECTS PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 7'-0" CLEARANCE ABOVE FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- D. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.
- E. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- F. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.
- G. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS AND OTHER ACTIVE DRAINING EXPOSED TO SYSTEM AIRSTREAM. PROVIDE TRAP AT CONNECTION WITH WATER SEAL. DEPTH ONE INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN OR OTHER LOCATION APPROVED BY THE ARCHITECT. ALL AIR HANDLING UNITS SHALL BE EQUIPPED WITH TRENT TECHNOLOGIES CXX8V CONDENSATE DRAIN.
- H. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED.
- I. ALL EQUIPMENT, VALVES, DAMPERS, DAMPER AND VALVE OPERATORS SHALL BE PROVIDED WITH ADEQUATE ACCESS FOR SERVICING, MAINTENANCE, AND REPLACEMENT.
- J. SIZE ALL SPLIT-SYSTEM REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- K. DUCT DIMENSIONS MAY BE MODIFIED ONLY WITH PRIOR APPROVAL FROM ARCHITECT. DUCT DIMENSIONS ARE IN INCHES AND INSIDE CLEAR.
- L. FOR LOCATION OF REGISTERS, GRILLES, AND DIFFUSERS WITHIN CEILING GRID, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
- M. ELEVATION INDICATED FOR RECTANGULAR DUCT, GRILLE AND LOUVER OPENINGS IS TO THE TOP OF ROUGH OPENING UNLESS OTHERWISE INDICATED. ELEVATION INDICATED FOR ROUND DUCTWORK AND PIPING IS TO CENTERLINE.
- N. BRANCH PIPING RUNOUTS TO TERMINAL UNITS SHALL BE 3/4" DIAMETER UNLESS INDICATED OTHERWISE.
- O. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.
- P. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA MECHANICAL CODE.

LIFE SAFETY SYMBOL LEGEND

DESIGNATOR MATRIX				
	WALL	BARRIER	PARTITION	RATED BEARING OR NON-BEARING WALL
2 HR FIRE	XXXXXX	■■■■■	■■■■■	
1 HR FIRE	■■■■■	■■■■■	■■■■■	■■■■■

NOTES:
1. REFER TO LIFE SAFETY DRAWINGS FOR ALL WALL RATING DETAILS.

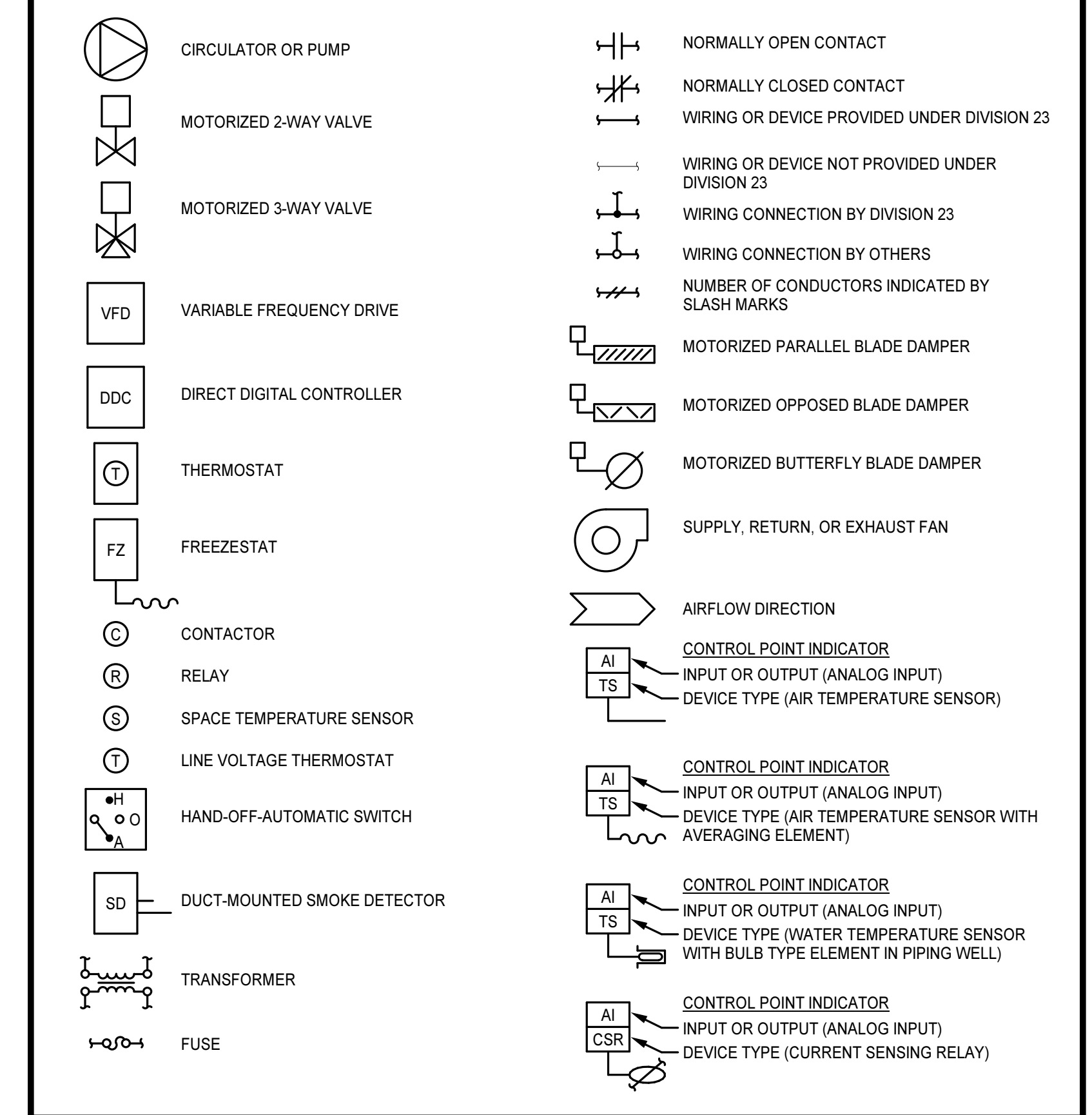
EQUIPMENT IDENTIFICATION

AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BCU	BUILDING AUTOMATION SYSTEM CONTROLLER
BCU	BLOWER COIL UNIT
CHWP	CHILLED WATER PUMP
ECH	ELECTRIC CEILING HEATER
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
FCU	FAN COIL UNIT
HWCP	HOT WATER COIL PUMP
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
RF	RELIEF FAN
SSI	SPLIT-SYSTEM INDOOR UNIT
SSO	SPLIT-SYSTEM OUTDOOR UNIT
TU	TERMINAL UNIT
TU-XFMR	TERMINAL UNIT POWER TRANSFORMER
UH	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE

CONTROLS ABBREVIATIONS

AF	AIRFLOW
AI	ANALOG INPUT TO CONTROLLER
ALM	ALARM
AMS	AIRFLOW MEASURING STATION
AO	ANALOG OUTPUT FROM CONTROLLER
ATS	AVERAGING TEMPERATURE SENSOR
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT TO CONTROLLER
BO	BINARY OUTPUT FROM CONTROLLER
CO2	CARBON DIOXIDE SENSOR
CSR	CURRENT-SENSING RELAY
DM	DAMPER MOTOR
DP	DIFFERENTIAL PRESSURE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FM	FLOW METER
FZ	FREEZE/STAT
HS	HUMIDITY SENSOR
POS	POSITION
R	RELAY
SD	SMOKE DETECTOR
SPD	SPEED
SS	START/STOP
STS	STATUS
TS	TEMPERATURE SENSOR
VFD	VARIABLE-FREQUENCY DRIVE

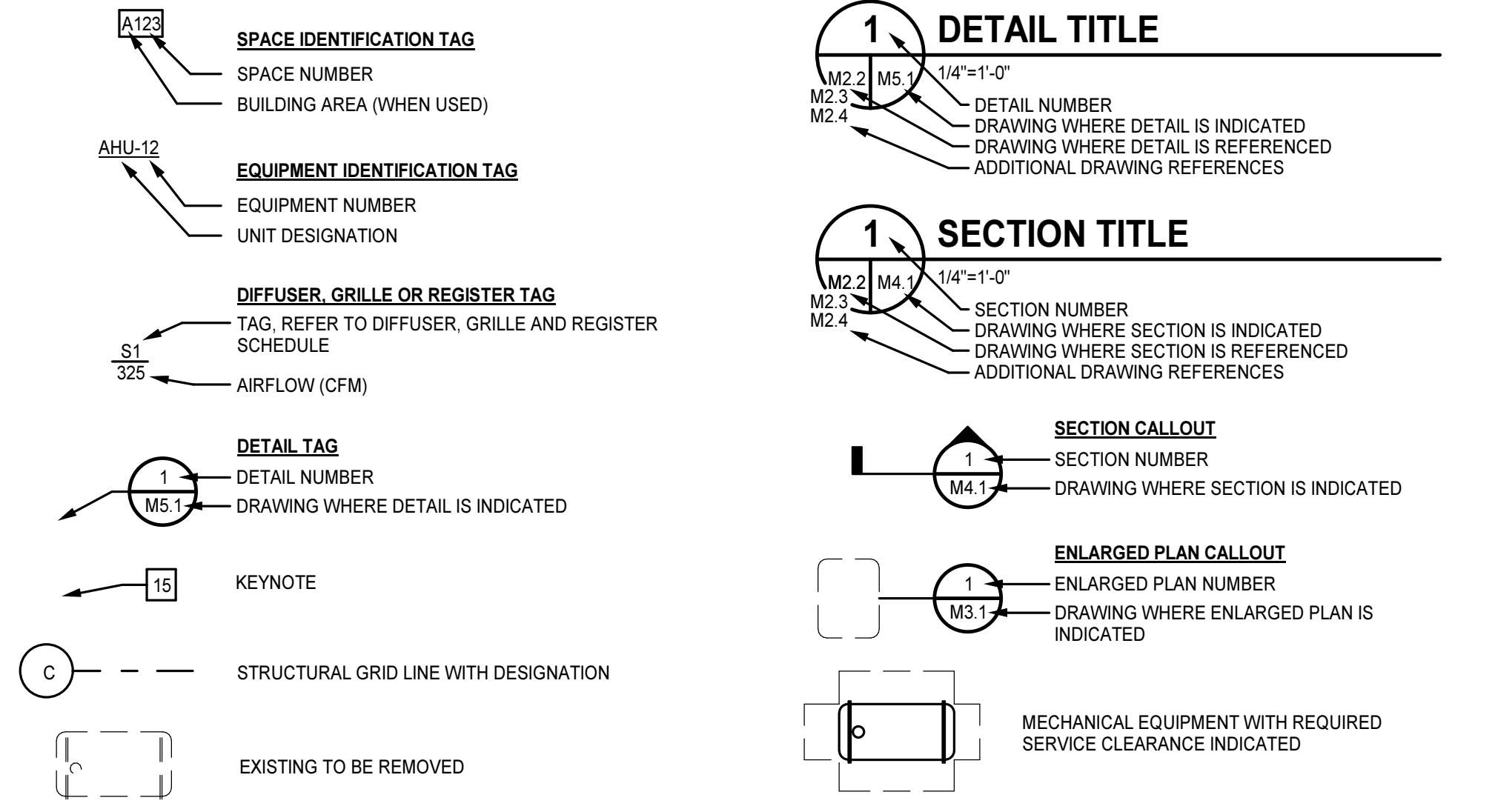
CONTROL SYSTEM SYMBOLS



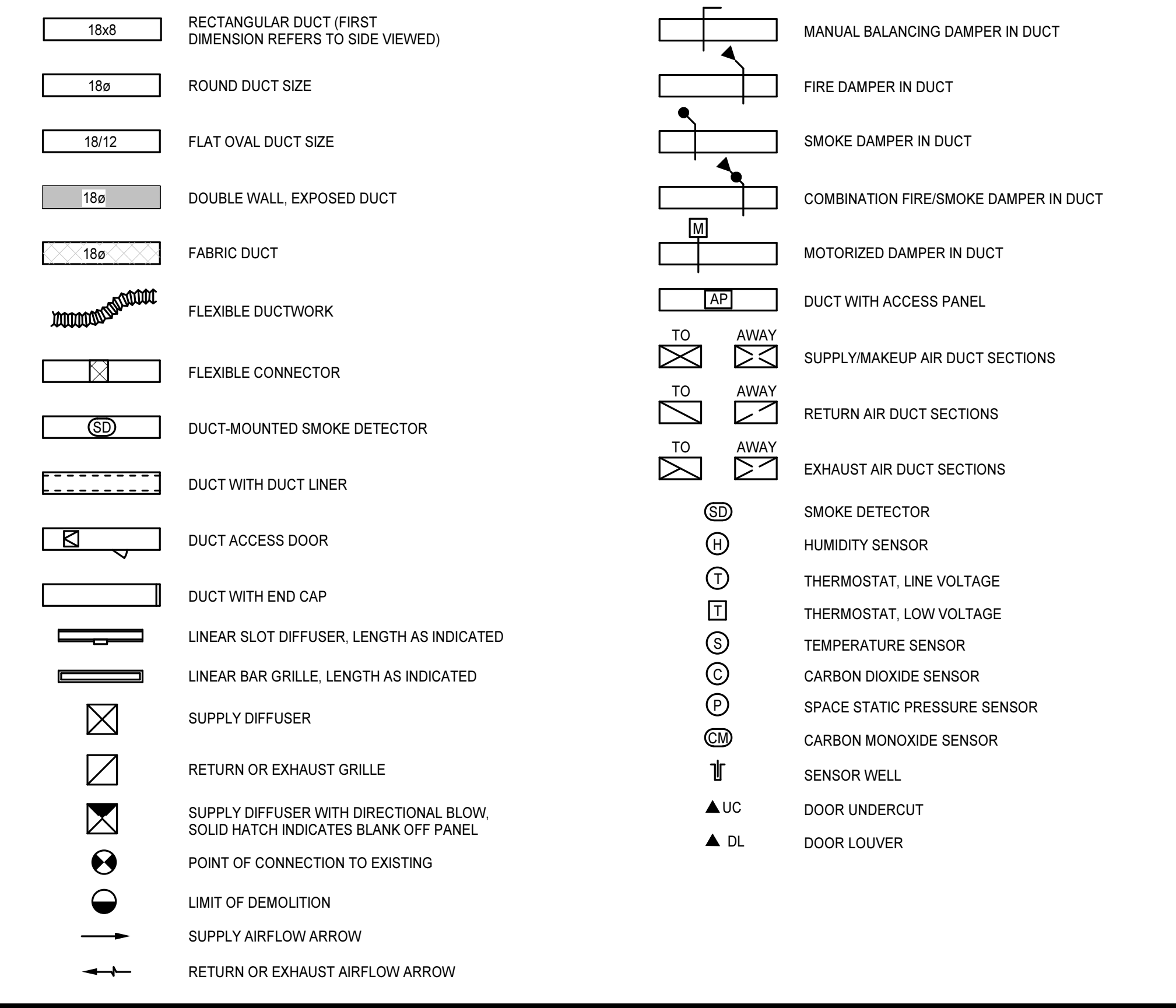
ABBREVIATIONS

A	AMPERES
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
COM	COMMON
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN
DB	DRY BULB TEMPERATURE
dBa	A-WEIGHTED DECIBELS
DCW	DOMESTIC COLD WATER
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EW	ENTERING WATER TEMPERATURE
EX	EXISTING
F	DEGREES FAHRENHEIT
FC	FALL CLOSED
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FO	FALL OPEN
FS	FEET PER MINUTE
FT	FOOT, FEET
GA	GAUGE
GAL	GALLON(S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HPWR	HEAT PUMP WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HTG	HEATING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCH
ILV	INTEGRATED PART-LOAD VALUE
KW	KILOWATT(S)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR-OPERATED DAMPER
NC	NORMALLY CLOSED (FOR PLANS, DETAILS)
NC	NOISE CRITERIA (FOR SCHEDULES)
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RL	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
TD	TRANSFER DUCT
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTAGE, VOLTS
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WATT(S)
W	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WMM	WELDED WIRE MESH

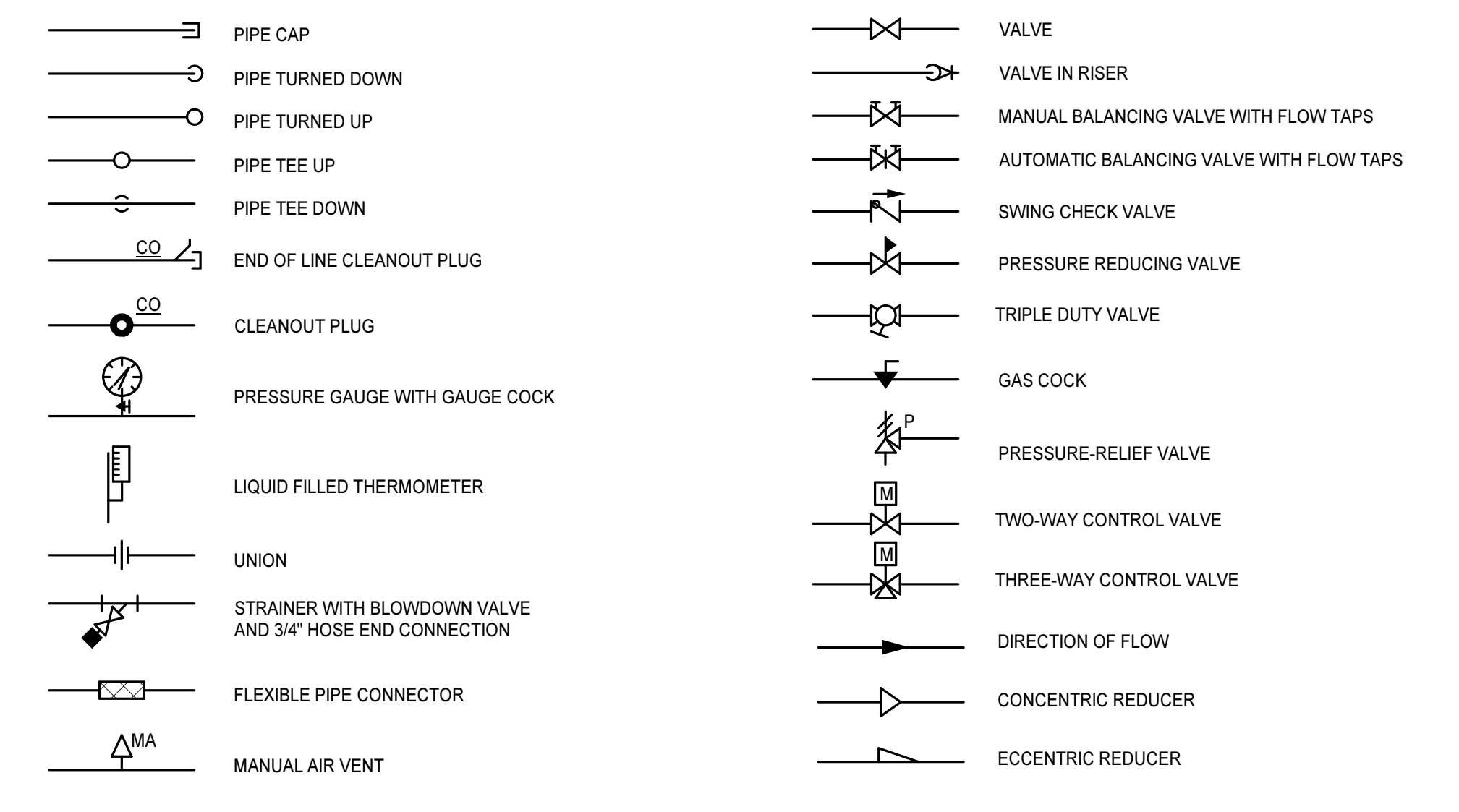
GRAPHICS SYMBOLS LEGEND



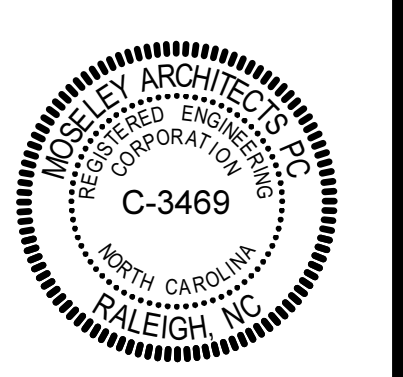
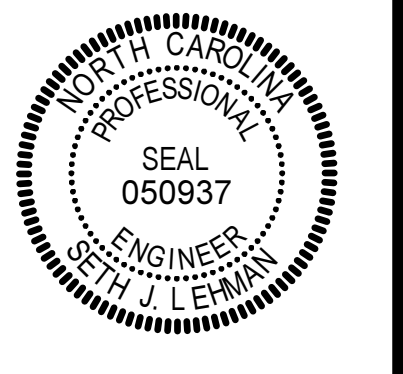
DUCTWORK LEGEND



PIPING LEGEND



MOSELEY ARCHITECTS
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0081
MOSELEYARCHITECTS.COM



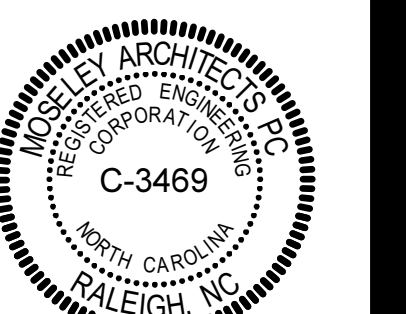
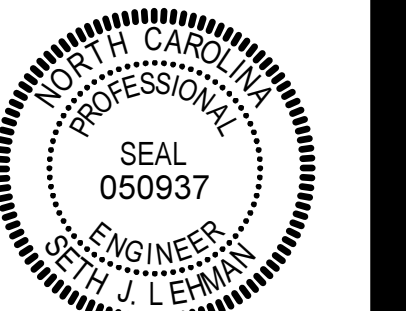
ALDERMAN HALL RENOVATION
UNIVERSITY OF NORTH CAROLINA WILMINGTON
SCO # 22-24639-01D
601 College Rd, Wilmington, NC 28403

PROJECT NO.	DATE	REVISIONS
620589	AUGUST 15, 2023	
DATE	DESCRIPTION	

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

M0.1

AIR HANDLING UNITS AND ENERGY RECOVERY UNIT ARE A PART OF THE EARLY EQUIPMENT PACKAGE. REFER TO DRAWING M5.0.



FAN SCHEDULE																		
TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	AIRFLOW (CFM)	ESP (IN WC)	MINIMUM AIRFLOW (CFM)	FAN WHEEL (RPM)	DRIVE TYPE	INLET SIZES	CONTROL METHOD	MOTOR (HP)	ELECTRICAL DATA				WEIGHT (LBS)	NOTES
													(V)	(PH)	(HZ)			
RF-1	GREENHECK	SQ-16-VG	AHU-1 ECONOMIZER RELIEF	IN-LINE CENTRIFUGAL	4,475	0.96	1,800	1600	DIRECT	16.5	BAS	2	1.2	208	1	60	150	1, 2, 3
RF-3	GREENHECK	SQ-16-VG	AHU-3 ECONOMIZER RELIEF	IN-LINE CENTRIFUGAL	4,900	1.00	1,900	1705	DIRECT	17.8	BAS	2	1.4	208	1	60	150	1, 2, 3
RF-4	GREENHECK	SQ-16-VG	AHU-4 ECONOMIZER RELIEF	IN-LINE CENTRIFUGAL	4,175	0.93	1,800	1540	DIRECT	15.6	BAS	2	1.1	208	1	60	150	1, 2, 3

NOTES:
1. PROVIDE WITH UNIT MOUNTED DISCONNECT SWITCH.
2. PROVIDE WITH MOTOR OPERATED DAMPER TO INTERLOCK WITH FAN OPERATION.
3. MOTOR SHALL BE ECM WITH SPEED 0-10V SIGNAL INPUT FROM BUILDING AUTOMATION SYSTEM. BUILDING AUTOMATION SYSTEM SHALL VARY FAN SPEED/FLOW PER CONTROL SEQUENCES.

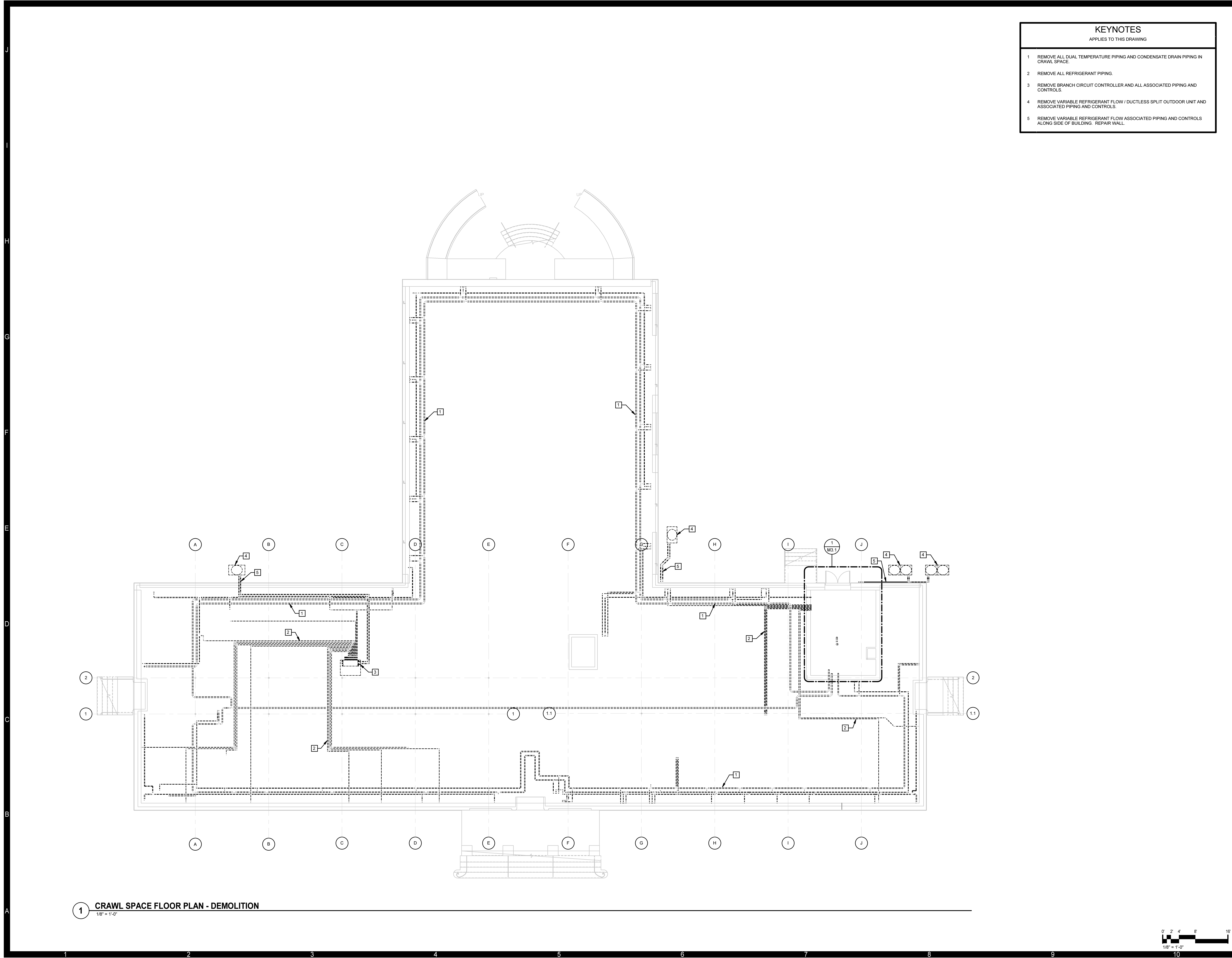
TERMINAL UNIT SCHEDULE																															
TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE				COIL				ELECTRICAL				ACOUSTIC PERFORMANCE								WEIGHT (LBS)	NOTES							
			INLET DIAMETER (IN)	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	APD AT MAX AIR FLOW (IN W/C)	MAX AIRFLOW (CFM)	CAPACITY (BTUH)	EAT (F)	LAT (F)	FLOW RATE (GPM)	WPD (FT WC)	EWTF (F)	ROWS (NO)	(V)	(PH)	(HZ)	DISCHARGE (dB)				RADIATED (dB)									
TU-01	TRANE	VCWF	10	620	235	0.45	620	22,760	55	90.0	2.5	5.0	140	2	24	1	60	66	56	52	50	50	52	54	46	43	41	40	37	50	-
TU-02	TRANE	VCWF	10	680	235	0.45	620	19,970	55	90.0	2.0	5.0	140	2	24	1	60	66	56	52	50	50	52	54	46	44	41	40	38	50	-
TU-03	TRANE	VCWF	6	310	75	0.45	310	11,650	55	90.0	1.5	5.0	140	2	24	1	60	66	56	52	50	50	52	54	46	43	41	38	35	35	-
TU-04	TRANE	VCWF	6	360	75	0.45	360	15,980	55	90.0	1.5	5.0	140	3	24	1	60	66	56	52	50	50	52	54	46	44	41	40	38	35	-
TU-05	TRANE	VCWF	5	200	65	0.45	200	6,980	55	90.0	0.5	5.0	140	1	24	1	60	66	56	52	50	50	52	54	46	41	38	35	35	-	
TU-06	TRANE	VCWF	8	470	150	0.45	350	13,220	55	90.0	2.0	5.0	140	2	24	1	60	67	61	1	49	48	49	52	46	41	38	38	50	-	
TU-07	TRANE	VCWF	8	610	150	0.45	610	19,420	55	90.0	3.5	5.0	140	2	24	1	60	68	61	50	49	48	50	54	46	41	38	39	40	50	-
TU-08	TRANE	VCWF	8	580	150	0.45	500	17,220	55	90.0	3.0	5.0	140	2	24	1	60	68	61	50	49	48	50	53	46	41	38	39	40	50	-
TU-09	TRANE	VCWF	10	710	235	0.45	600	22,420	55	90.0	2.5	5.0	140	2	24	1	60	66	56	51	50	50	52	54	46	44	41	40	38	50	-
TU-10	TRANE	VCWF	6	320	80	0.45	100	3,600	55	90.0	0.5	5.0	140	1	24	1	60	66	56	52	50	50	52	54	46	41	38	35	34	35	-
TU-11	TRANE	VCWF	6	400	75	0.45	400	15,980	55	90.0	1.5	5.0	140	3	24	1	60	66	62	52	50	50	51	52	46	42	39	36	34	35	-
TU-12	TRANE	VCWF	6	280	75	0.45	65	2,980	55	90.0	0.5	5.0	140	3	24	1	60	66	62	52	50	50	51	52	46	42	39	36	34	35	-
TU-13	TRANE	VCWF	6	240	75	0.45	65	2,980	55	90.0	0.5	5.0	140	3	24	1	60	66	62	52	50	50	51	52	46	42	39	36	34	35	-
TU-01	TRANE	VCWF	6	390	75	0.45	300	11,470	55	90.0	1.5	5.0	140	2	24	1	60	66	63	52	51	50	51	53	46	42	39	38	34	35	-
TU-02	TRANE	VCWF	8	640	150	0.45	540	16,980	55	90.0	2.5	5.0	140	2	24	1	60	66	56	52	50	50	52	54	46	44	41	40	38	50	-
TU-03	TRANE	VCWF	10	740	235	0.45	510	21,530	55	90.0	3.0	5.0	140	2	24	1	60	66	56	51	50	50	52	54	46	44	41	41	39	50	-
TU-04	TRANE	VCWF	6	300	75	0.45	75	3,180	55	90.0	0.5	5.0	140	1	24	1	60	66	62	52	50	50	49	51	45	41	38	35	35	-	
TU-05	TRANE	VCWF	10	970	235	0.45	400	16,070	55	90.0	1.5	5.0	140	2	24	1	60	66	56	51	50	50	53	56	44	42	42	41	50	-	
TU-06	TRANE	VCWF	5	220	65	0.45	160	7,980	55	90.0	1.0	5.0	140	2	24	1	60	67	63	53	51	50	51	53	46	42	39	38	33	35	-
TU-07	TRANE	VCWF	8	440	150	0.45	440	16,250	55	90.0	3.0	5.0	140	2	24	1	60	67	61	51	49	48	49	52	46	41	38	38	50	-	
TU-08	TRANE	VCWF	6	400	75	0.45	280	11,090	55	90.0	1.5	5.0	140	2	24	1	60	66	63	52	51	50	51	53	46	42	39	36	35	35	-
TU-09	TRANE	VCWF	4	120	50	0.45	50	2,620	55	90.0	0.5	5.0	140	1	24	1	60	66	60	52	50	49	51	44	40	35	33	29	35	-	
TU-10	TRANE	VCWF	12	1160	340	0.45	600	23,600	55	90.0	2.5	5.0	140	2	24	1	60	65	60	56	50	53	56	51	47	38	40	39	35	-	
TU-11	TRANE	VCWF	10	680	235	0.45	350	15,060	55	90.0	1.5	5.0	140	2	24	1	60	66	56	52	50	50	52	54	46	44	41	40	38	50	-
TU-01	TRANE	VCWF	8	620	150	0.45	520	16,800	55	90.0	4.0	5.0	140	2	24	1	60	68	61	50	49	48	50	54	46	41	38	39	40	50	-
TU-02	TRANE	VCWF	8	520	150	0.45	430	16,080	55	90.0	3.0	5.0	140	2	24	1	60	67	61	51	49	48	50	53	46	41	38	39	39	50	-
TU-03	TRANE	VCWF	6	300	75	0.45	75	3,180	55	90.0	0.5	5.0	140	2	24	1	60	65	62	52	50	49	51	45	41	38	35	33	35	-	
TU-04	TRANE	VCWF	6	300	75	0.45	75	3,180	55	90.0	0.5	5.0	140	1	24	1	60	65	62	52	50	49	51	45	41	38	35	33	35	-	
TU-05	TRANE	VCWF	8	630	150	0.45	460	15,590	55	90.0	3.0	5.0	140	2	24	1	60	68	61	50	49	48	50	54	46	41	38	39	40	50	-
TU-06	TRANE	VCWF	6	390	75	0.45	280	9,720	55	90.0	1.0	5.0	140	2	24	1	60	66	63	52	51	50	51	53	46	42	39	38	34	35	-
TU-07	TRANE	VCWF	8	610	150	0.45	390	14,740	55	90.0	2.5	5.0	140	2	24	1	60	68	61	50	49	48	50	54	46	41	38	39	40	50	-
TU-08	TRANE	VCWF	5	200	65	0.45	65	2,980	55	90.0	0.5	5.0	140	1	24	1	60	66	62	52	50	50	49	51	45	41	38	35	33	35	-
TU-09	TRANE	VCWF	6	300	75	0.45	450	9,720	55	90.0	3.0	5.0	140	2	24	1	60	66	56	51	50	50	53	56	44	41	41	38	50	-	
TU-10	TRANE	VCWF	4	100	50	0.45	50	2,620	55	90.0	0.5	5.0	140	1	24	1	60	64	58	50	48	46	44	48	33	33	31	28	35	-	
TU-11	TRANE	VCWF	6	450	75	0.45	400	14,910	55	90.0	2.5	5.0	140	2	24	1	60	67	61	51	49	48	49	52	46	41	38	38	35	-	
TU-12	TRANE	VCWF	5	200	65	0.45	180	8,100	55	90.0	1.0	5.0	140	2	24	1	60	67	63	53	51	51	49	53	47	42	39	38	33	35	-
TU-13	TRANE	VCWF	6	235	75	0.45	230	9,180	55	90.0	1.0	5.0	140	2	24	1	60	65	62	52	50	50	49	51	45	41	38	35	33	35	-

GENERAL NOTES:
A. ALL CONTROLLERS SHALL BE PROVIDED BY DIVISION 230900 AND FACTORY MOUNTED UNLESS OTHERWISE NOTED.
B. ALL HOT WATER SUPPLY AND RETURN RUNOUTS SHALL BE MINIMUM 3/4" UNLESS OTHERWISE NOTED.
C. SELECT ALL HEATING COILS TO PROVIDE SCHEDULED DISCHARGE AIR TEMPERATURE AT DESIGN AIRFLOW. SELECT NUMBER OF COIL ROWS AS REQUIRED TO MEET DISCHARGE AIR TEMPERATURE.
D. WATER PRESSURE DROP SCHEDULED IS THE MAXIMUM WATER PRESSURE DROP ALLOWED. ACTUAL PRESSURE DROP MAY BE LESS.
E. EACH TERMINAL SHALL BE CONTROLLED BY THE BUILDING AUTOMATION SYSTEM. REFER TO CONTROLS DRAWINGS FOR ADDITIONAL DETAILS.
F. ACOUSTIC PERFORMANCE VALUES ARE AT 1' INLET STATIC PRESSURE TO THE TERMINAL UNIT.

NOTES:
1. HOT WATER SUPPLY AND RETURN RUNOUT SHALL BE 1" MINIMUM.

PUMP SCHEDULE																
TAG	MANUFACTURER	MODEL NUMBER	SERVING	LOCATION	TYPE	OPERATING DATA				MOTOR (HP)	ELECTRICAL DATA				WEIGHT (LBS)	NOTES
						FLOW (GPM)	HEAD (FT WC)	EFFICIENCY (%)	MINIMUM FLOW (GPM)		MINIMUM FLOW (GPM)	DISCHARGE SIZE (IN)	IMPELLER SIZE (IN)	MOTOR SPEED (RPM)		
CHWP-1	BELL & GOSSETT	e-80SC 2.5x2.6x5.5C	CHILLED WATER SYSTEM	M100MECH	SPLIT COUPLED IN-LINE	171.5										

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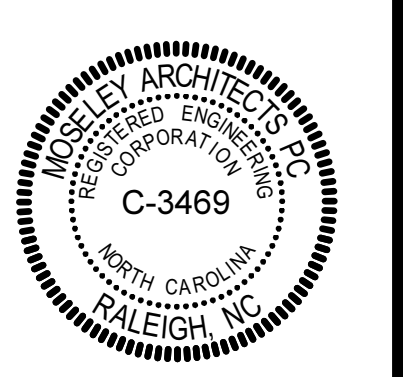
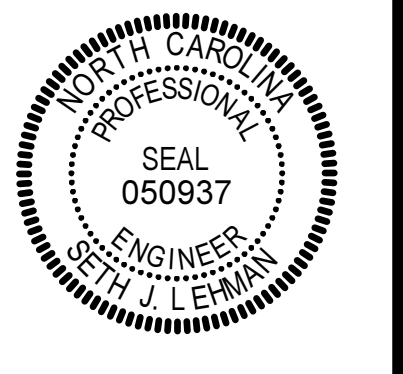


KEYNOTES	
APPLIES TO THIS DRAWING	
1	REMOVE ALL DUAL TEMPERATURE PIPING AND CONDENSATE DRAIN PIPING IN CRAWL SPACE.
2	REMOVE ALL REFRIGERANT PIPING.
3	REMOVE BRANCH CIRCUIT CONTROLLER AND ALL ASSOCIATED PIPING AND CONTROLS.
4	REMOVE VARIABLE REFRIGERANT FLOW / DUCTLESS SPLIT OUTDOOR UNIT AND ASSOCIATED PIPING AND CONTROLS.
5	REMOVE VARIABLE REFRIGERANT FLOW ASSOCIATED PIPING AND CONTROLS ALONG SIDE OF BUILDING. REPAIR WALL.

1 CRAWL SPACE FLOOR PLAN - DEMOLITION
1/8" = 1'-0"



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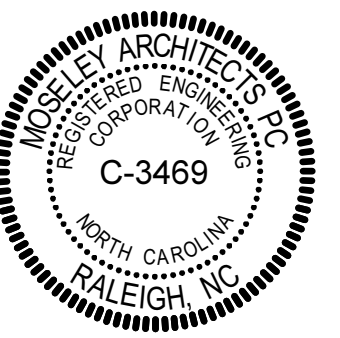


ALDERMAN HALL RENOVATION
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SCO # 22-24639-01D
601 College Rd, Wilmington, NC 28403

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CRAWL SPACE FLOOR PLAN - DEMOLITION

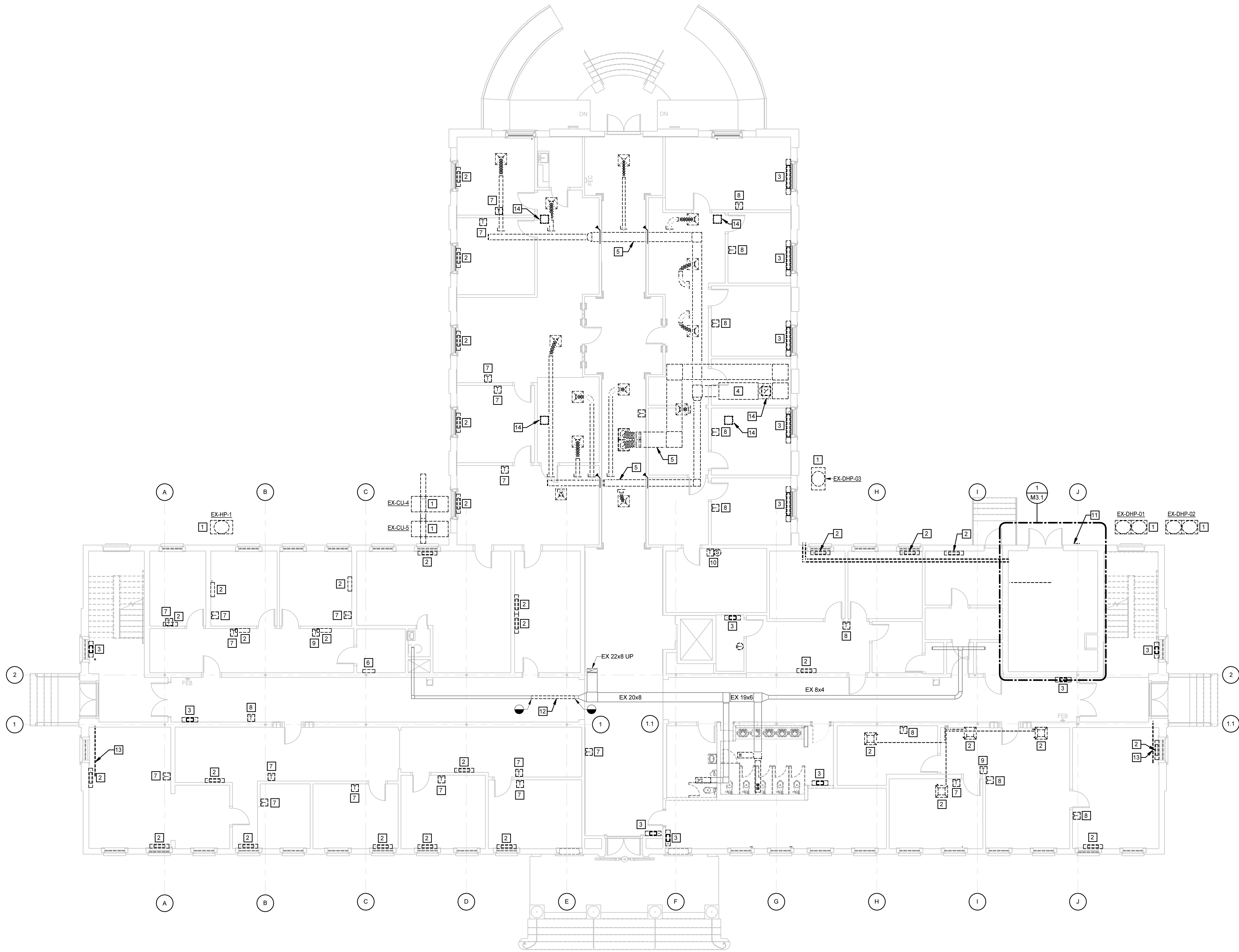
M1.0



KEYNOTES

APPLIES TO THIS DRAWING

- 1 REMOVE VARIABLE REFRIGERANT FLOW / DUCTLESS SPLIT OUTDOOR UNIT AND ASSOCIATED PIPING AND CONTROLS.
- 2 REMOVE VARIABLE REFRIGERANT FLOW / DUCTLESS SPLIT INDOOR UNIT AND ALL ASSOCIATED PIPING AND CONTROLS. INFILL ALL FLOOR AND WALL PENETRATIONS. FILL ALL FLOOR VOIDS WITH NON-SHRINK GROUT. REFER TO ARCHITECTURAL DRAWINGS FOR PATCHING OF FLOOR AND WALL.
- 3 REMOVE FAN COIL AND ALL ASSOCIATED PIPING AND CONTROLS. INFILL ALL FLOOR AND WALL PENETRATIONS. FILL ALL FLOOR VOIDS WITH NON-SHRINK GROUT. REFER TO ARCHITECTURAL DRAWINGS FOR PATCHING OF FLOOR AND WALL.
- 4 REMOVE AIR HANDLING UNIT AND ALL ASSOCIATED CONTROLS. REMOVE ALL ASSOCIATED DUCTWORK AND PIPING.
- 5 REMOVE ALL DUCTWORK, DIFFUSERS/GRILLES, AND FLEXIBLE DUCT TO EXTENT INDICATED, TYPICAL.
- 6 REMOVE VARIABLE REFRIGERANT FLOW CONTROL PANEL AND ALL ASSOCIATED WIRING AND CONTROLS.
- 7 REMOVE THERMOSTAT/TEMPERATURE SENSOR. RETAIN BOX AND PATHWAY FOR NEW SENSOR TO EXTENT POSSIBLE. NEW SENSOR TO BE MOUNTED AT TOP 48" ABOVE FINISHED FLOOR MAXIMUM.
- 8 REMOVE THERMOSTAT/TEMPERATURE SENSOR AND ASSOCIATED WIRING AND BOX. PROVIDE BLANK COVER PLATES FOR EXISTING ABANDONED THERMOSTAT LOCATIONS. EXTEND PATHWAY DOWN TO NEW SENSOR LOCATION. MOUNT NEW SENSOR TOP AT 48" ABOVE FINISHED FLOOR MAXIMUM.
- 9 REMOVE THERMOSTAT/TEMPERATURE SENSOR(S) AND ASSOCIATED WIRING AND PATHWAYS. PROVIDE BLANK COVER PLATE.
- 10 REMOVE THERMOSTAT/TEMPERATURE SENSOR AND ASSOCIATED WIRING AND BOX. PROVIDE BLANK COVER PLATES FOR EXISTING ABANDONED THERMOSTAT LOCATIONS. EXTEND PATHWAY DOWN TO NEW SENSOR LOCATION. MOUNT NEW SENSOR TOP AT 48" ABOVE FINISHED FLOOR. REMOVE SECOND THERMOSTAT AND PROVIDE BLANK COVER PLATE.
- 11 REMOVE VARIABLE REFRIGERANT FLOW ASSOCIATED PIPING AND CONTROLS ALONG SIDE OF BUILDING. REPAIR WALL.
- 12 REMOVE EXHAUST DUCT TO ALLOW FOR INSTALLATION OF NEW SUPPLY DUCTWORK.
- 13 REMOVE CONDENSATE DRAIN. ABANDON AND CAP ALL PIPING WITHIN CMU WALLS.
- 14 REMOVE GRAVITY VENTILATOR AND ALL ASSOCIATED DUCTWORK. CAP CURB. REFER TO EXISTING ROOF CURB CAP DETAIL.



1 FIRST FLOOR PLAN - DEMOLITION
1/8" = 1'-0"

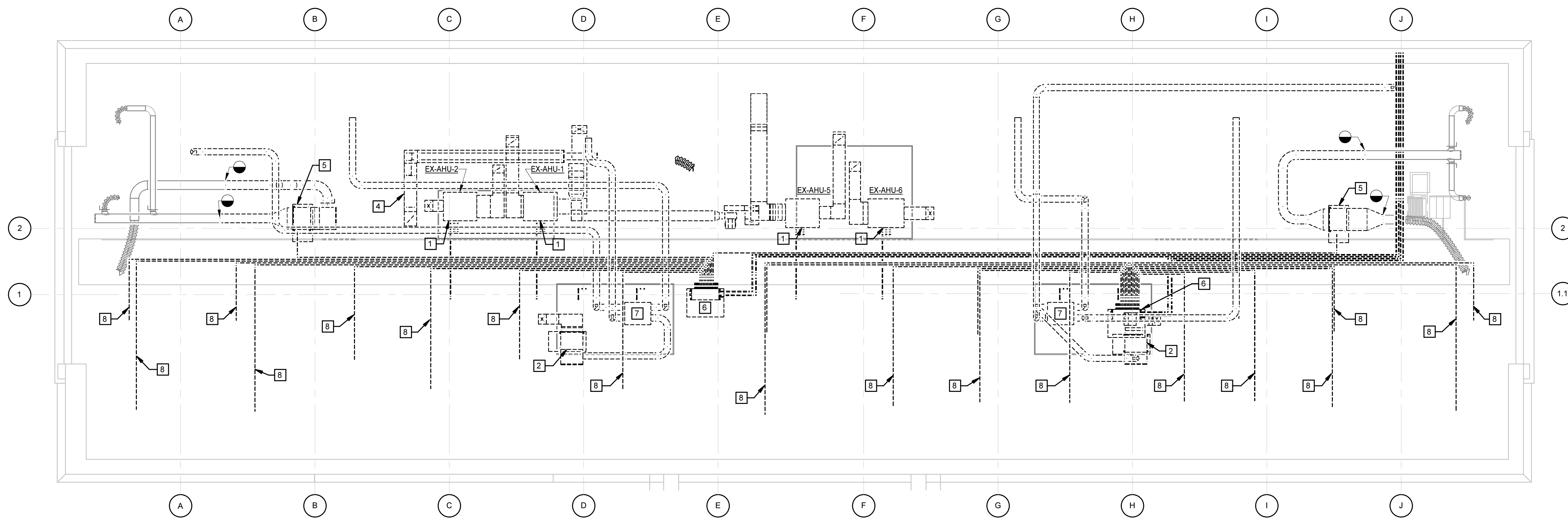


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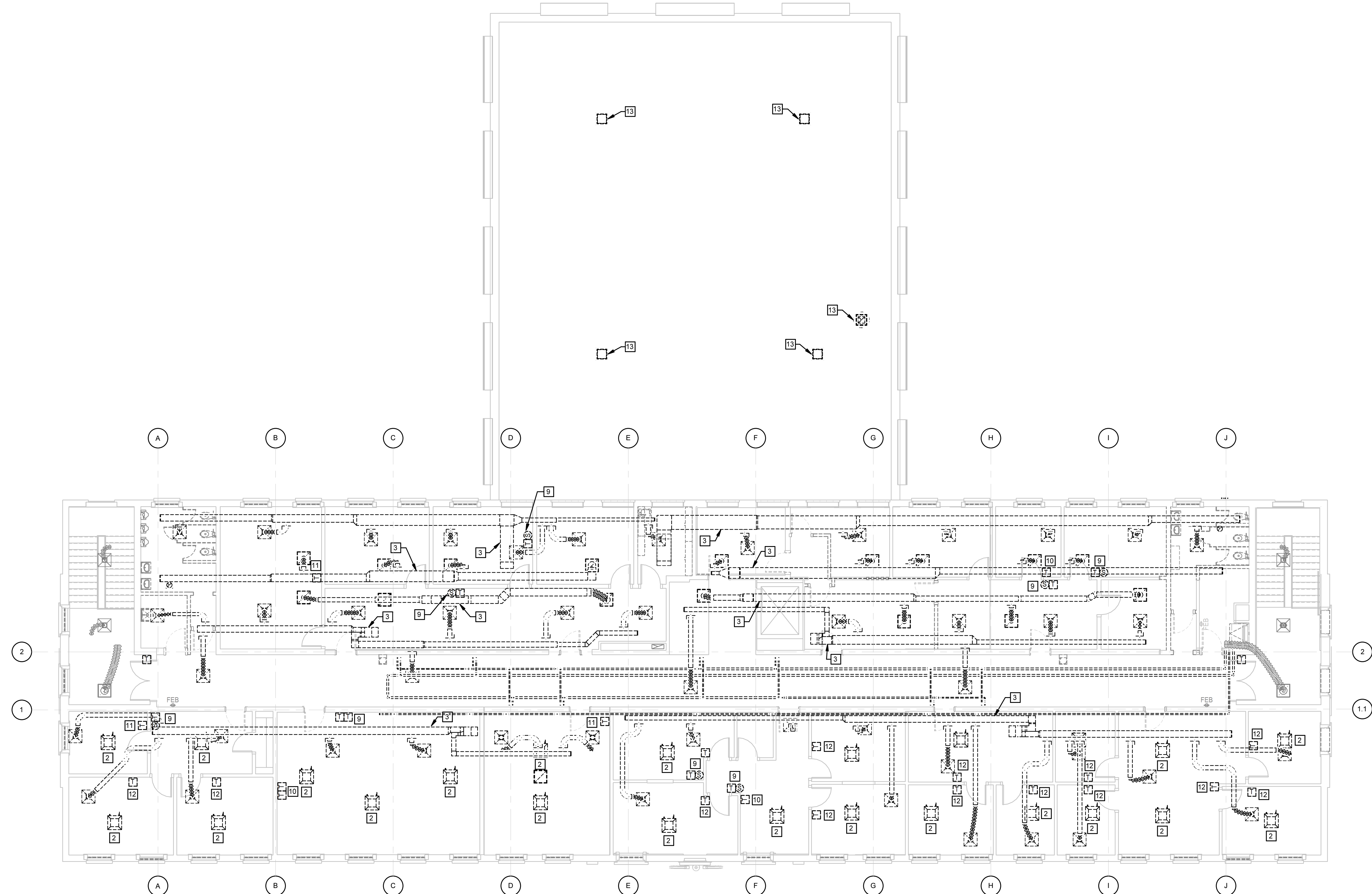
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FIRST FLOOR PLAN - DEMOLITION



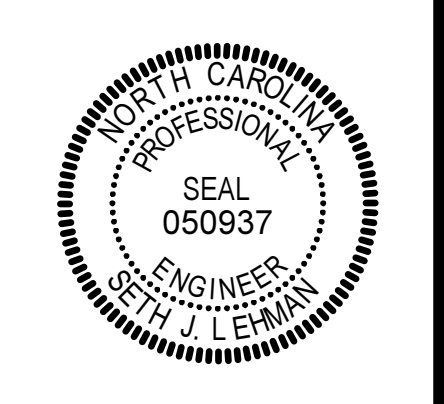
2 ATTIC FLOOR PLAN - DEMOLITION
1/8" = 1'-0"



1 SECOND FLOOR PLAN & LOW ROOF PLAN - DEMOLITION
1/8" = 1'-0"

KEYNOTES	
APPLIES TO THIS DRAWING	
1	REMOVE AIR HANDLING UNIT AND ALL ASSOCIATED CONTROLS. REMOVE ALL ASSOCIATED DUCTWORK AND PIPING.
2	REMOVE VARIABLE REFRIGERANT FLOW / DUCTLESS SPLIT INDOOR UNIT AND ALL ASSOCIATED PIPING AND CONTROLS. INFILL ALL FLOOR AND WALL PENETRATIONS. FILL ALL FLOOR VOIDS WITH NON-SHRINK GROUT. REFER TO ARCHITECTURAL DRAWINGS FOR PATCHING OF FLOOR AND WALL.
3	REMOVE ALL DUCTWORK, DIFFUSERS/GRILLES, AND FLEXIBLE DUCT TO EXTENT INDICATED, TYPICAL.
4	REMOVE SPLIT SYSTEM INDOOR UNIT AND ALL ASSOCIATED DUCTWORK, DIFFUSERS, AND CONTROLS. TURN OVER UNIT TO OWNER.
5	REMOVE VARIABLE REFRIGERANT FLOW / DUCTLESS SPLIT INDOOR UNIT AND ALL ASSOCIATED PIPING AND CONTROLS. REMOVE DUCTWORK TO EXTENT INDICATED. INFILL ALL FLOOR AND WALL PENETRATIONS. FILL ALL FLOOR VOIDS WITH NON-SHRINK GROUT. REFER TO ARCHITECTURAL DRAWINGS FOR PATCHING OF FLOOR AND WALL.
6	REMOVE BRANCH CIRCUIT CONTROLLER AND ALL ASSOCIATED PIPING AND CONTROLS.
7	REMOVE ENERGY RECOVERY UNIT AND ALL ASSOCIATED DUCTWORK AND CONTROLS.
8	REMOVE ALL REFRIGERANT PIPING.
9	REMOVE THERMOSTAT/TEMPERATURE SENSOR AND ASSOCIATED WIRING AND BOX. PROVIDE BLANK COVER PLATES FOR EXISTING ABANDONED THERMOSTAT LOCATIONS. EXTEND PATHWAY DOWN TO NEW SENSOR LOCATION. MOUNT NEW SENSOR TOP AT 48" ABOVE FINISHED FLOOR. REMOVE SECOND THERMOSTAT AND PROVIDE BLANK COVER PLATE.
10	REMOVE THERMOSTAT/TEMPERATURE SENSOR(S) AND ASSOCIATED WIRING AND PATHWAYS. PROVIDE BLANK COVER PLATE.
11	REMOVE THERMOSTAT/TEMPERATURE SENSOR AND ASSOCIATED WIRING AND BOX. PROVIDE BLANK COVER PLATES FOR EXISTING ABANDONED THERMOSTAT LOCATIONS. EXTEND PATHWAY DOWN TO NEW SENSOR LOCATION. MOUNT NEW SENSOR TOP AT 48" ABOVE FINISHED FLOOR MAXIMUM.
12	REMOVE THERMOSTAT/TEMPERATURE SENSOR. RETAIN BOX AND PATHWAY FOR NEW SENSOR TO EXTENT POSSIBLE. NEW SENSOR TO BE MOUNTED AT TOP 48" ABOVE FINISHED FLOOR MAXIMUM.
13	REMOVE GRAVITY VENTILATOR AND ALL ASSOCIATED DUCTWORK. CAP CURB. REFER TO EXISTING ROOF CURB CAP DETAIL.

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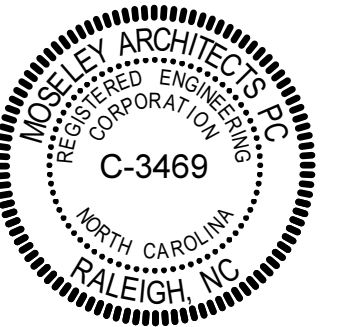
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SECOND & ATTIC
FLOOR PLANS -
DEMOLITION

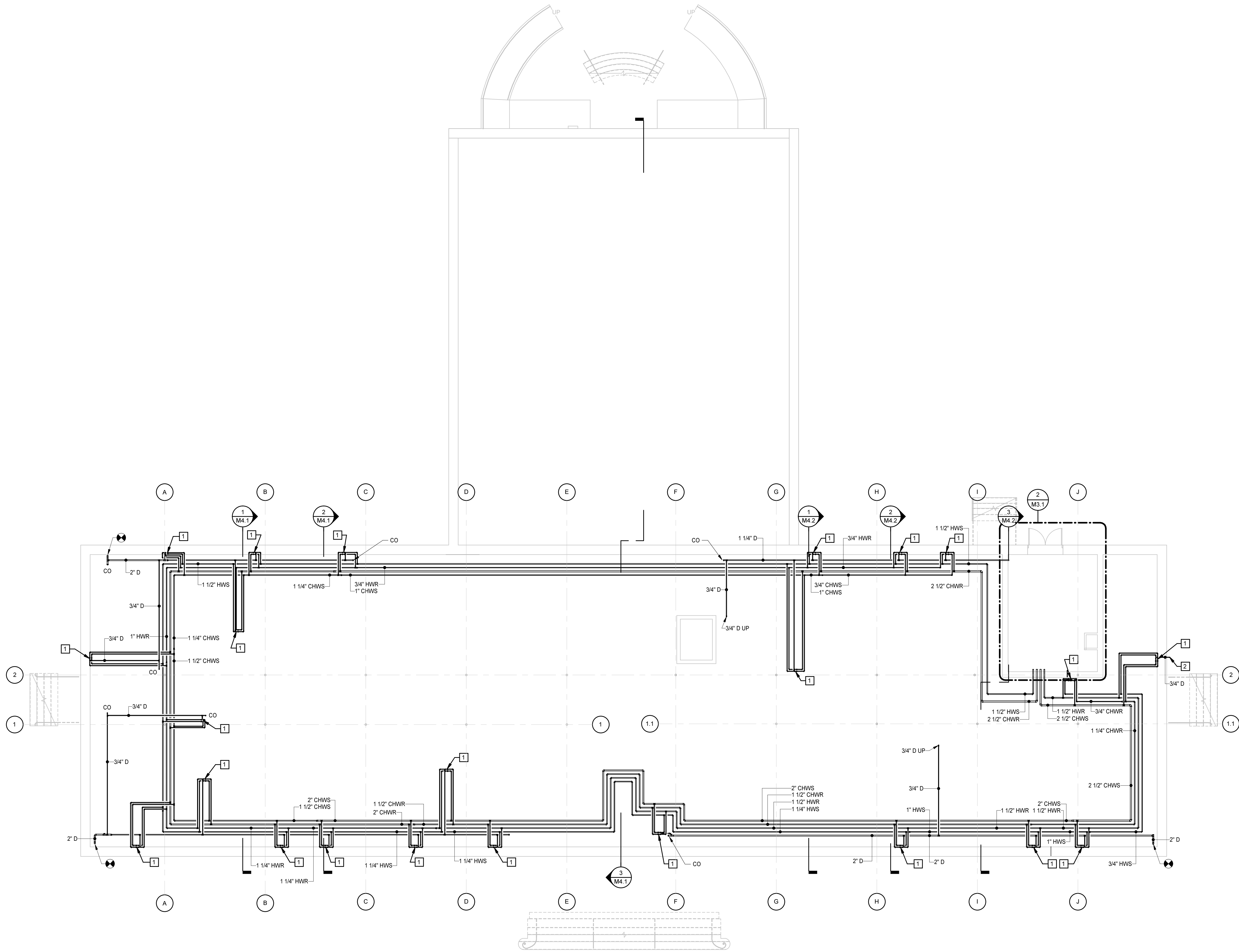
M1.2



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KEYNOTES	
APPLIES TO THIS DRAWING	
1	CHILLED WATER SUPPLY AND RETURN, HOT WATER SUPPLY AND RETURN, AND CONDENSATE PIPING RUNOUTS TO FAN COIL UNIT ON FLOOR ABOVE. REFER TO FAN COIL UNIT SCHEDULE FOR ALL RUNOUT SIZES.
2	DISCHARGE CONDENSATE DRAIN TO SPLASH BLOCK ON GRADE. PAINT EXTERIOR PIPING TO MATCH BRICK.



1 CRAWL SPACE FLOOR PLAN - PIPING
 1/8" = 1'-0"

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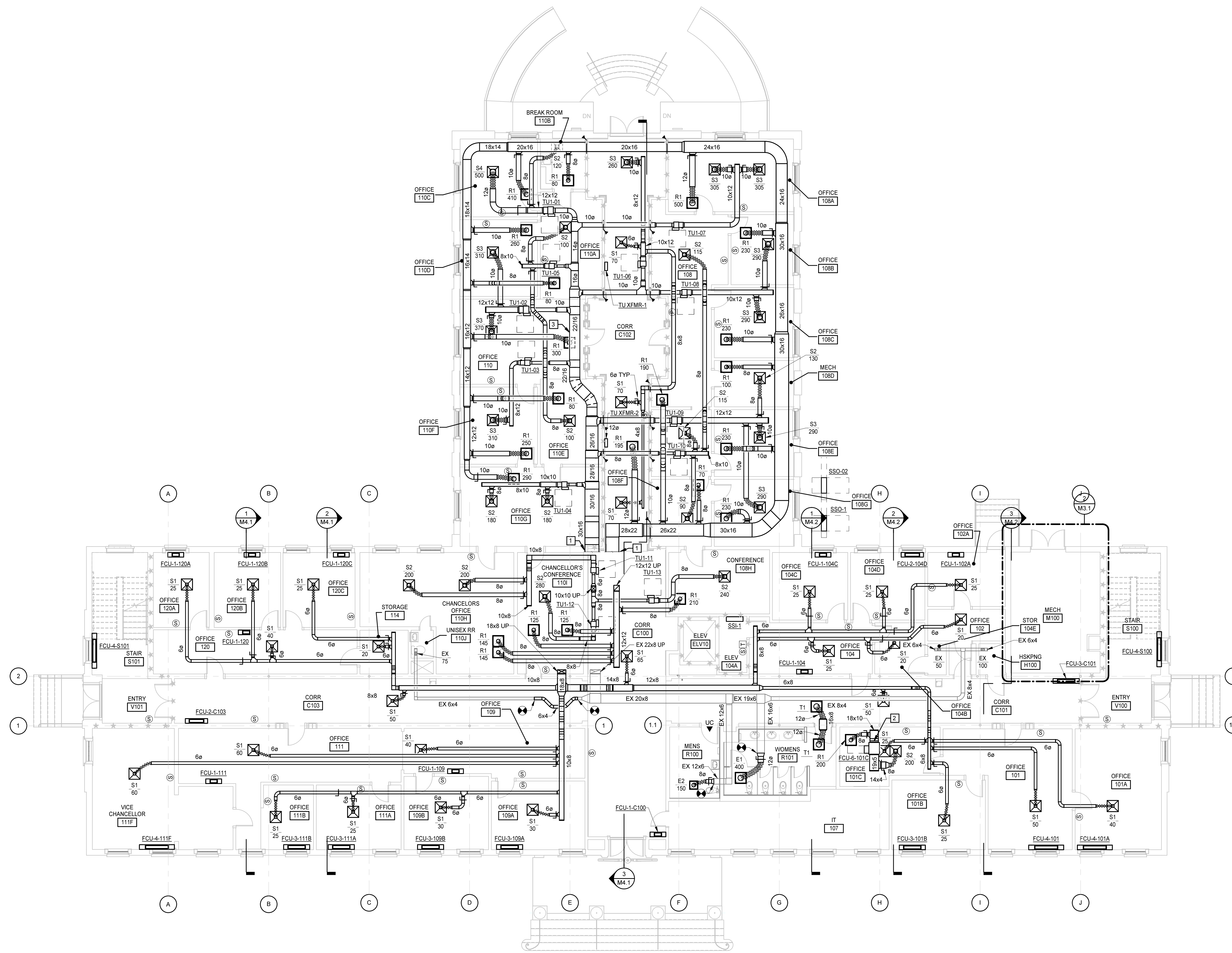
CRAWL SPACE PLAN - PIPING



KEYNOTES

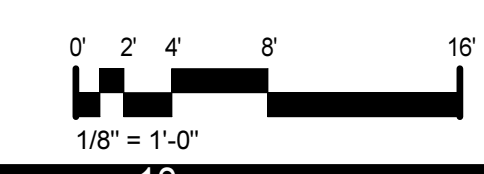
APPLIES TO THIS DRAWING

- 1 REFER TO SECOND FLOOR PLAN FOR CONTINUATION OF DUCT.
- 2 CONNECT TO UNIT FULL SIZE OF UNIT CONNECTION SIZE.
- 3 MOUNT DOWN DUCT STATIC PRESSURE SENSOR FOR AHU-1 AT THIS LOCATION.



1 FIRST FLOOR PLAN - DUCTWORK

1/8" = 1'-0"

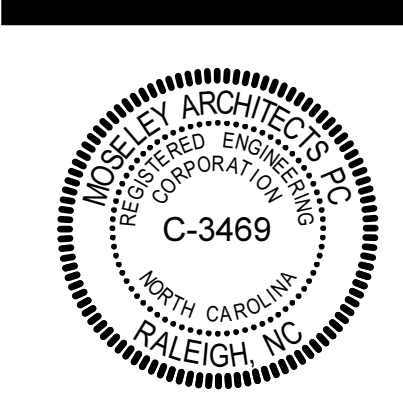


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FIRST FLOOR PLAN - DUCTWORK

M2.1.1

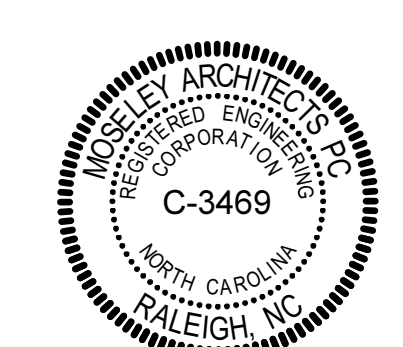
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KEYNOTES	
APPLIES TO THIS DRAWING	
1	CHILLED WATER SUPPLY AND RETURN, HOT WATER SUPPLY AND RETURN, AND CONDENSATE PIPING RUNOUTS FROM FAN COIL UNIT DOWN TO CRAWL SPACE. CONCEAL ALL PIPING AND VALVES WITHIN FAN COIL UNIT CABINET. REFER TO FAN COIL UNIT SCHEDULE FOR ALL RUNOUT SIZES.
2	SIZE AND ROUTE REFRIGERANT SUCTION AND LIQUID PIPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3	DISCHARGE CONDENSATE DRAIN TO SPLASH BLOCK ON GRADE. PAINT EXTERIOR PIPING TO MATCH BRICK.
4	ROUTE REFRIGERANT SUCTION AND LIQUID UP TO FLOOR ABOVE.

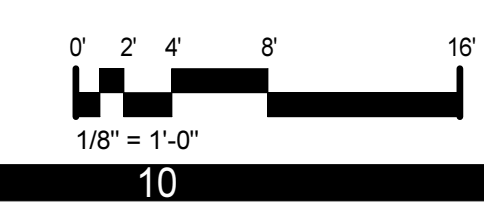


1 FIRST FLOOR PLAN - PIPING
 1/8" = 1'-0"

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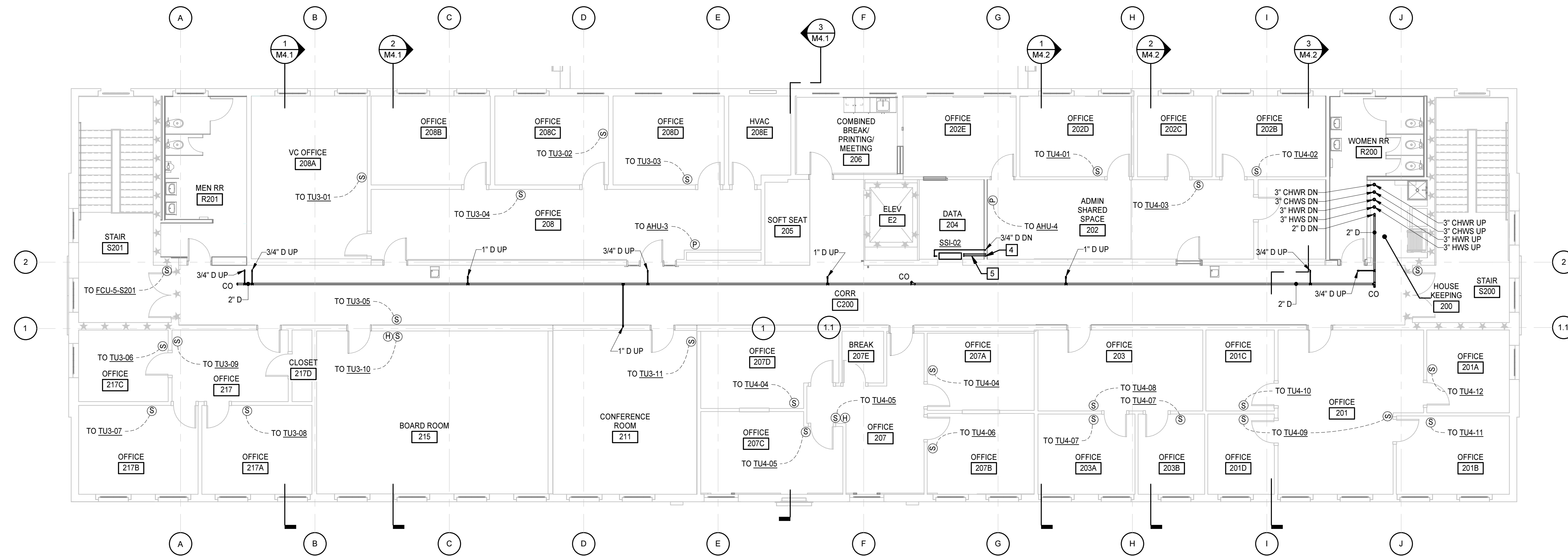
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FIRST FLOOR PLAN - PIPING

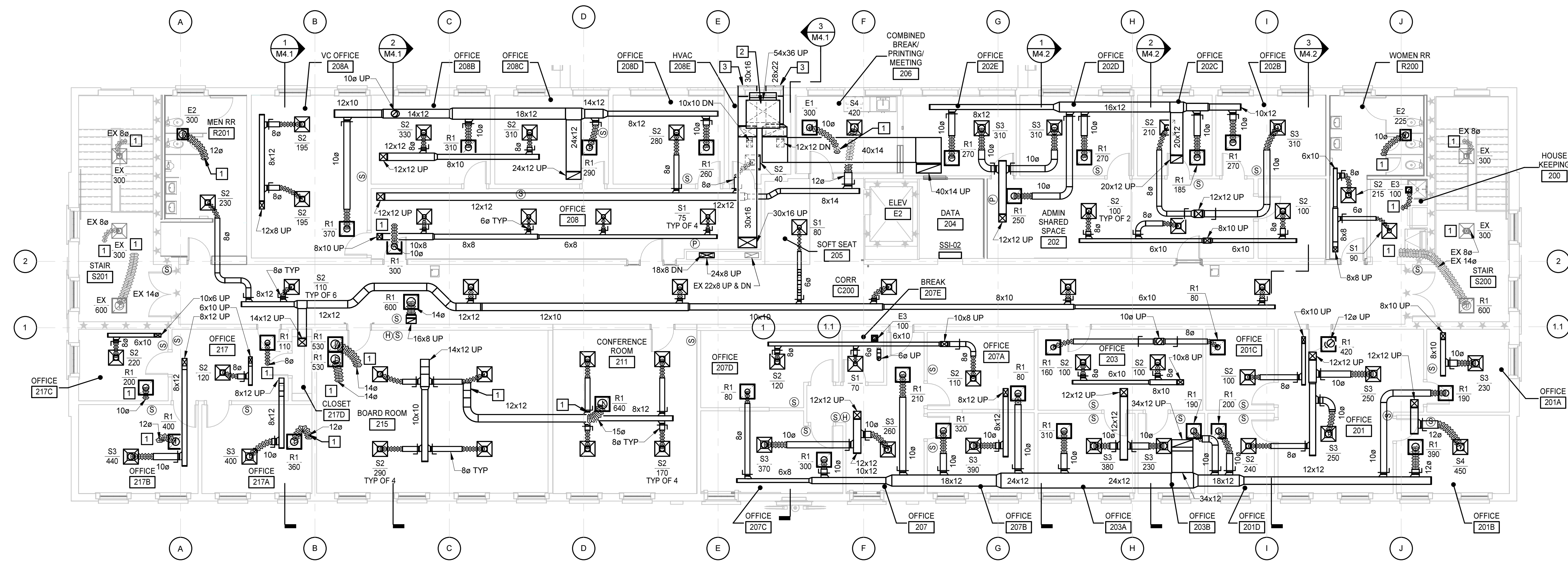




KEYNOTES	
APPLIES TO THIS DRAWING	
1	REFER TO ATTIC FLOOR PLAN FOR CONTINUATION.
2	CONNECT DUCT TO LOUVER, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND DETAILS.
3	REFER TO FIRST FLOOR PLAN FOR CONTINUATION.
4	ROUTE REFRIGERANT SUCTION AND LIQUID DOWN TO FLOOR BELOW.
5	SIZE AND ROUTE REFRIGERANT SUCTION AND LIQUID PIPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.



2 SECOND FLOOR PLAN - PIPING
1/8" = 1'-0"



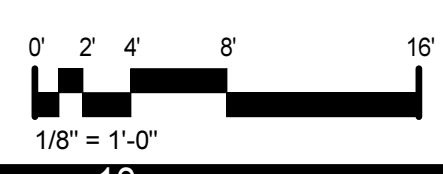
1 SECOND FLOOR PLAN - DUCTWORK
1/8" = 1'-0"

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SECOND FLOOR PLAN - DUCTWORK & PIPING

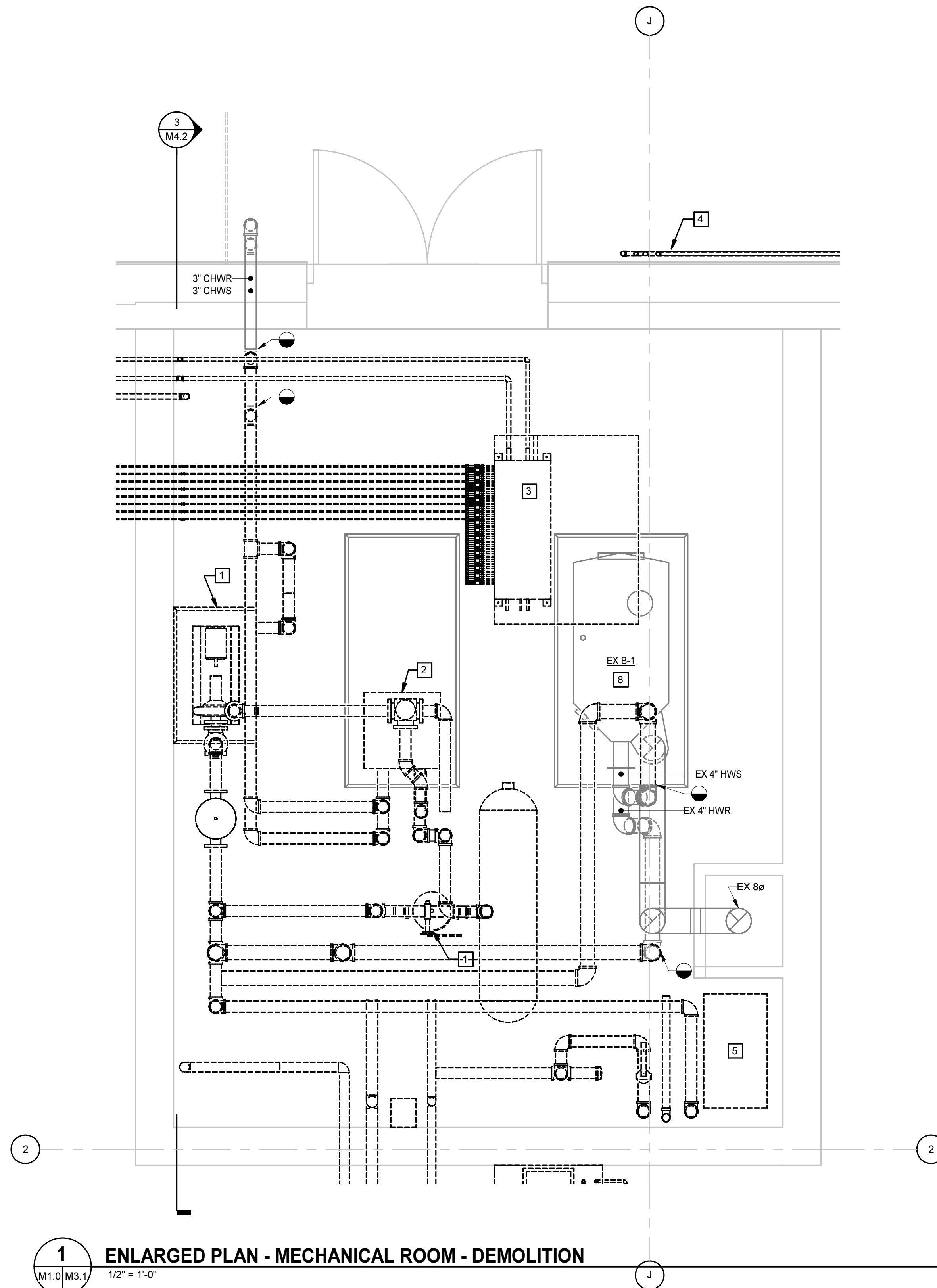
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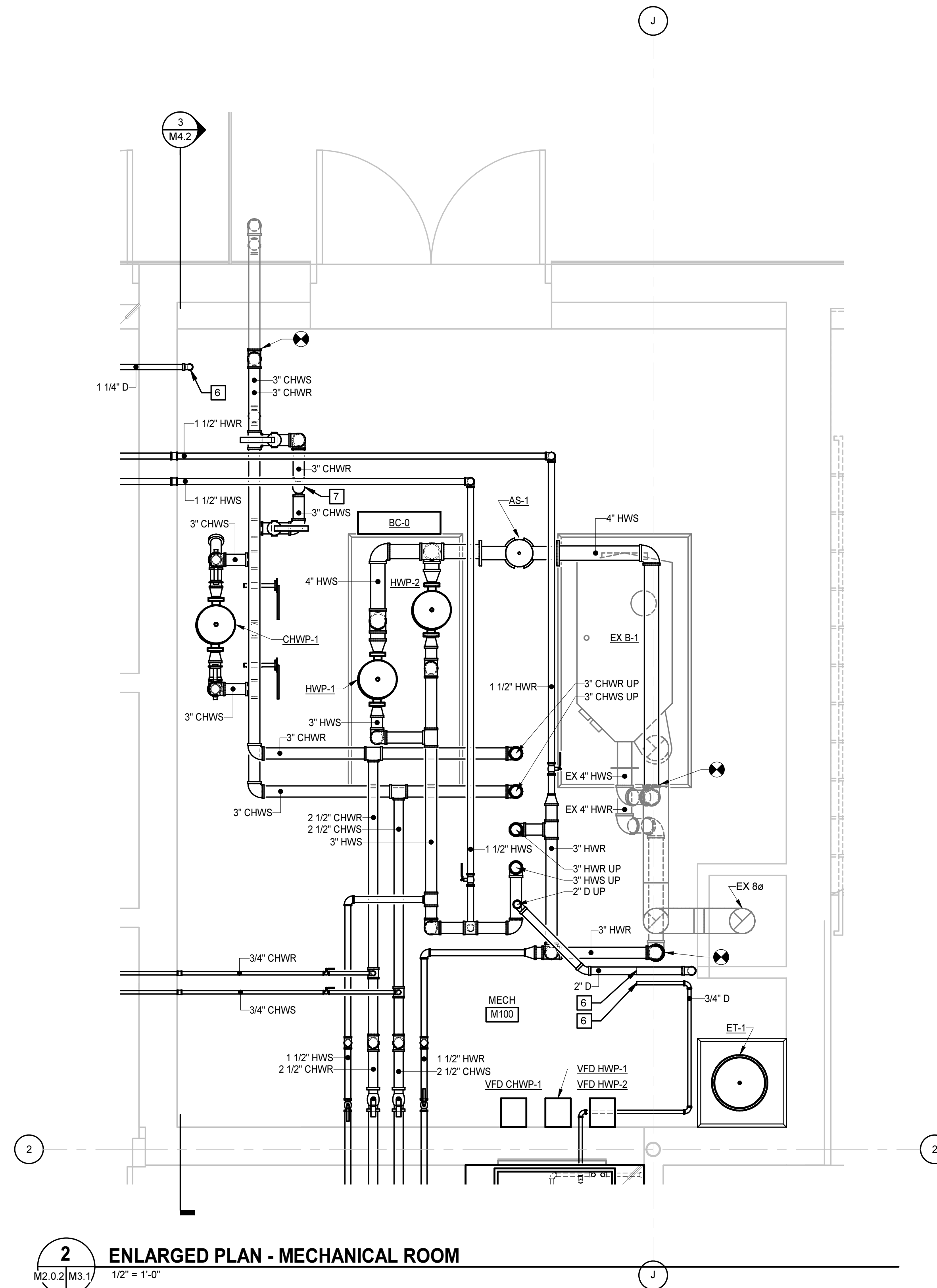
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1 ENLARGED PLAN - MECHANICAL ROOM - DEMOLITION
 M1.0 M3.1 1/2" = 1'-0"



2 ENLARGED PLAN - MECHANICAL ROOM
 M2.0.2 M3.1 1/2" = 1'-0"

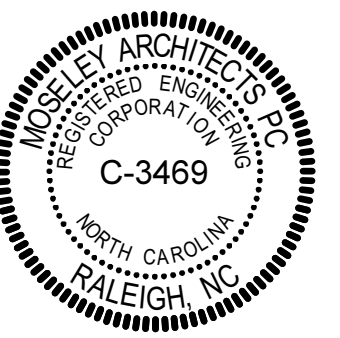
KEYNOTES

APPLIES TO THIS DRAWING

- 1 REMOVE PUMP AND ASSOCIATED PIPING AND ACCESSORIES TO EXTENT INDICATED.
- 2 REMOVE CHILLED WATER HEAT EXCHANGER AND ASSOCIATED CONTROLS. REMOVE PIPING TO EXTENT INDICATED.
- 3 REMOVE BRANCH CIRCUIT CONTROLLER AND ALL ASSOCIATED PIPING AND CONTROLS.
- 4 REMOVE ALL REFRIGERANT PIPING AND CONTROL WIRING. INFILL ALL FLOOR AND WALL PENETRATIONS. FILL ALL FLOOR VOIDS WITH NON-SHRINK GROUT. REFER TO ARCHITECTURAL DRAWINGS FOR PATCHING OF FLOOR AND WALL.
- 5 REMOVE CONTROLS AIR COMPRESSOR AND ALL ACCESSORIES, CONTROLS, AND TUBING.
- 6 DISCHARGE CONDENSATE DRAIN TO FLOOR DRAIN.
- 7 CHILLED WATER BRIDGE. REFER TO CHILLED WATER SYSTEM SCHEMATIC FOR ADDITIONAL DETAILS.
- 8 RETAIN BOILER AND ASSOCIATED CONTROLS & PIPING TO EXTENT INDICATED.

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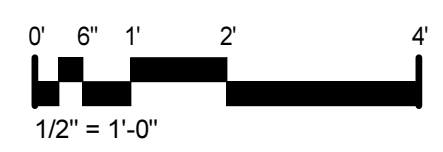
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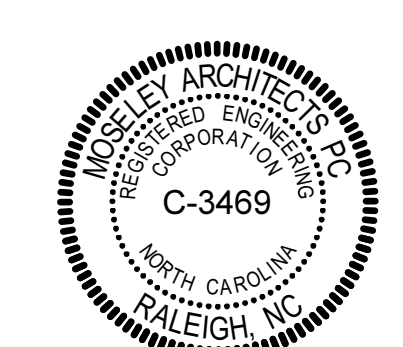
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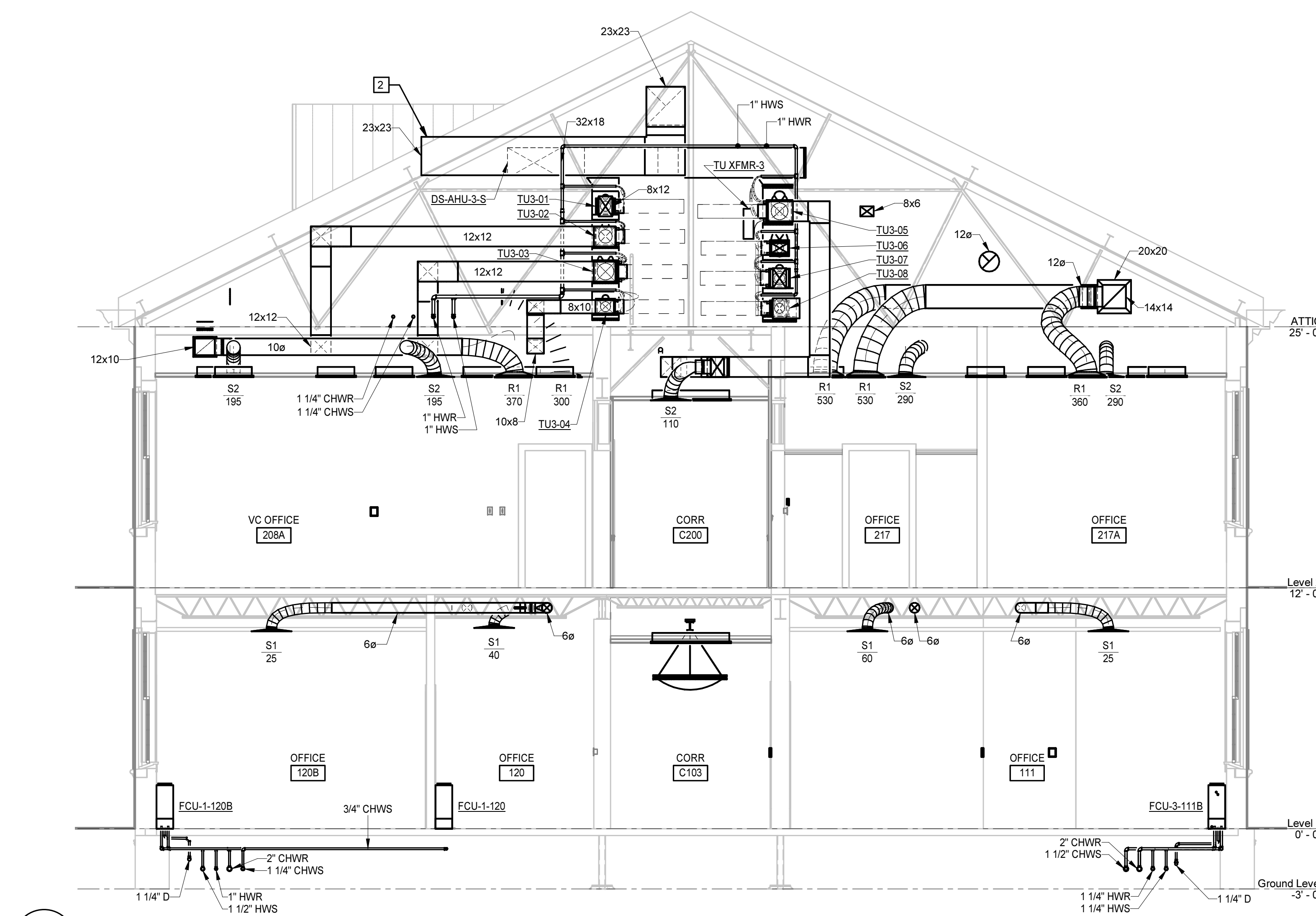
ENLARGED PLANS



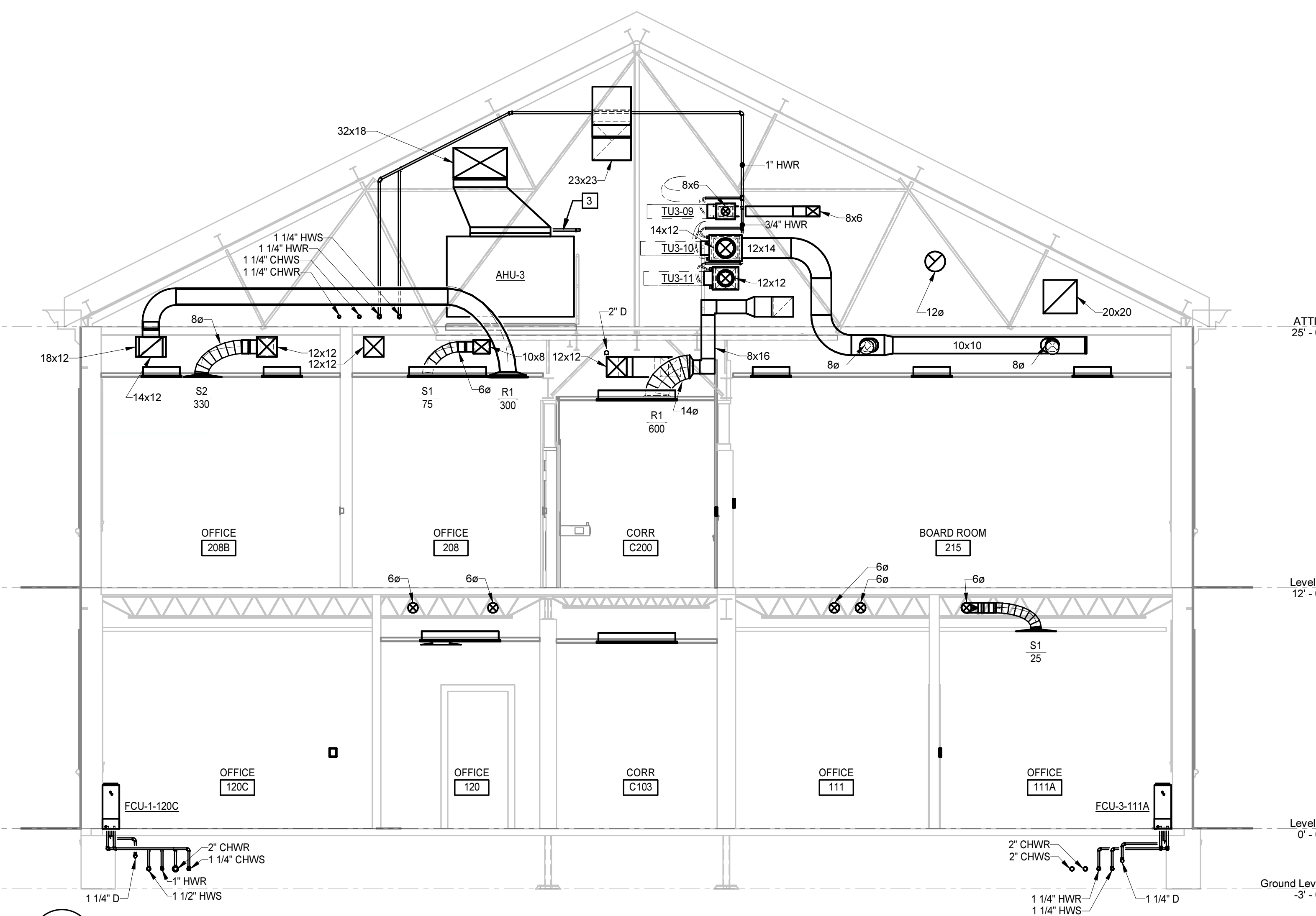
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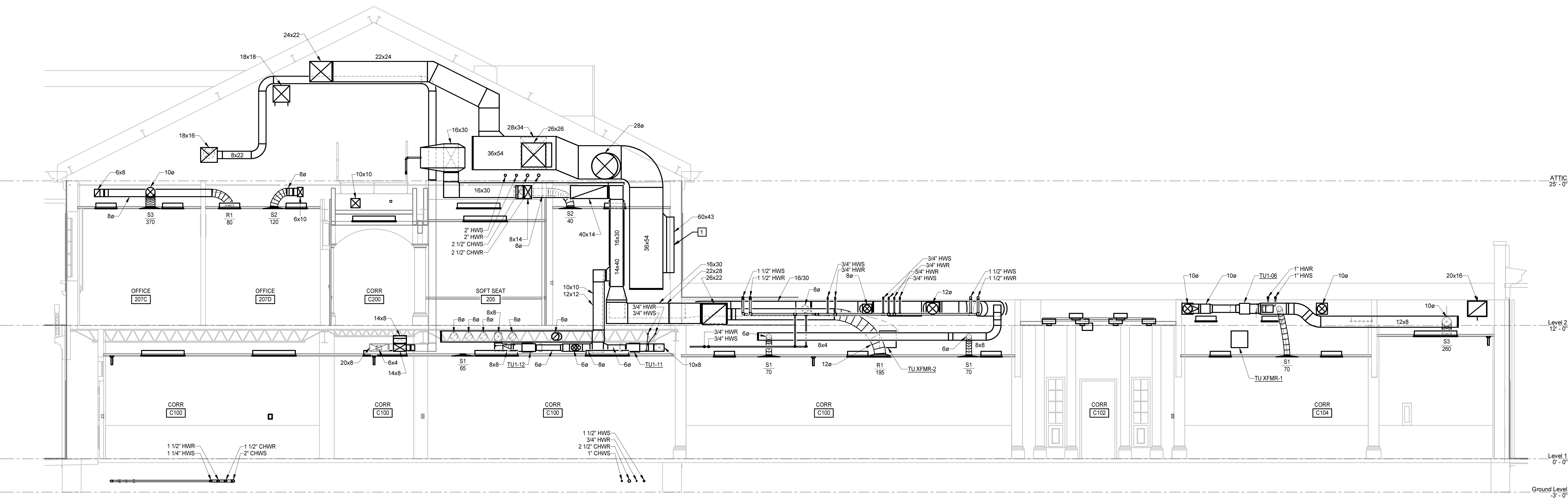
KEYNOTES	
APPLIES TO THIS DRAWING	
1	CONNECT DUCT TO LOUVER. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND DETAILS.
2	CONNECT EXHAUST DUCT INTO DORMER FOR DISCHARGE THROUGH EXISTING DORMER LOUVER.
3	PROVIDE TRENT TECHNOLOGIES CXXBV CONDENSATE TRAP. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.



1 SECTION
 M2.0.2/M4.1 1/4" = 1'-0"



2 SECTION
 M2.0.2/M4.1 1/4" = 1'-0"

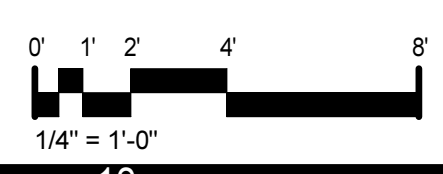


3 SECTION
 M2.0.2/M4.1 1/4" = 1'-0"

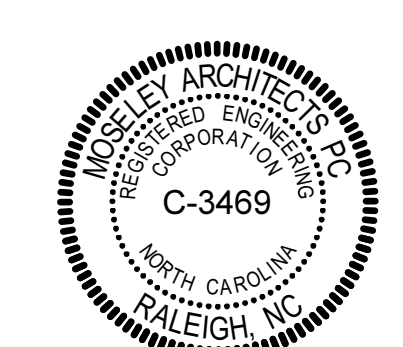
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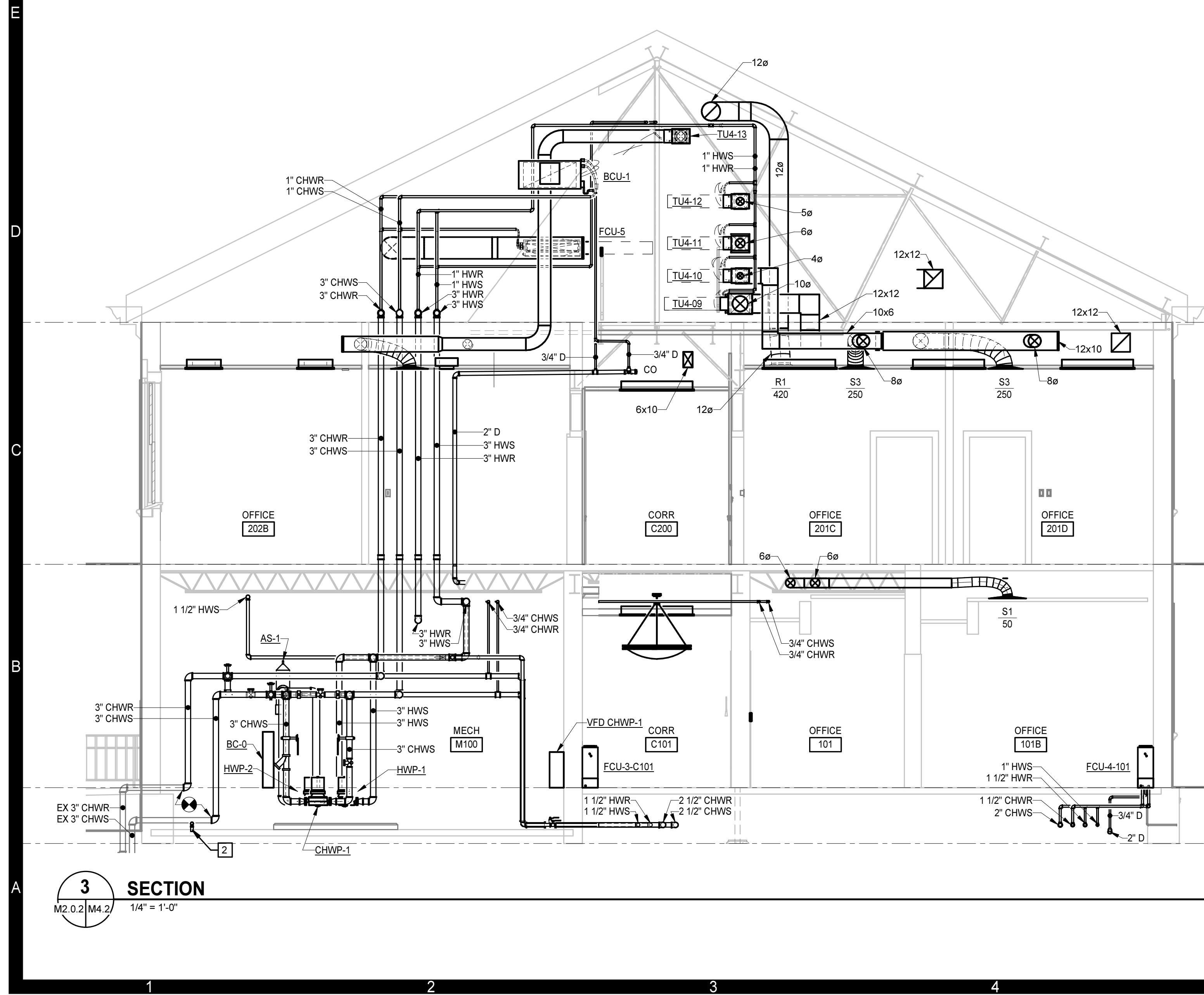
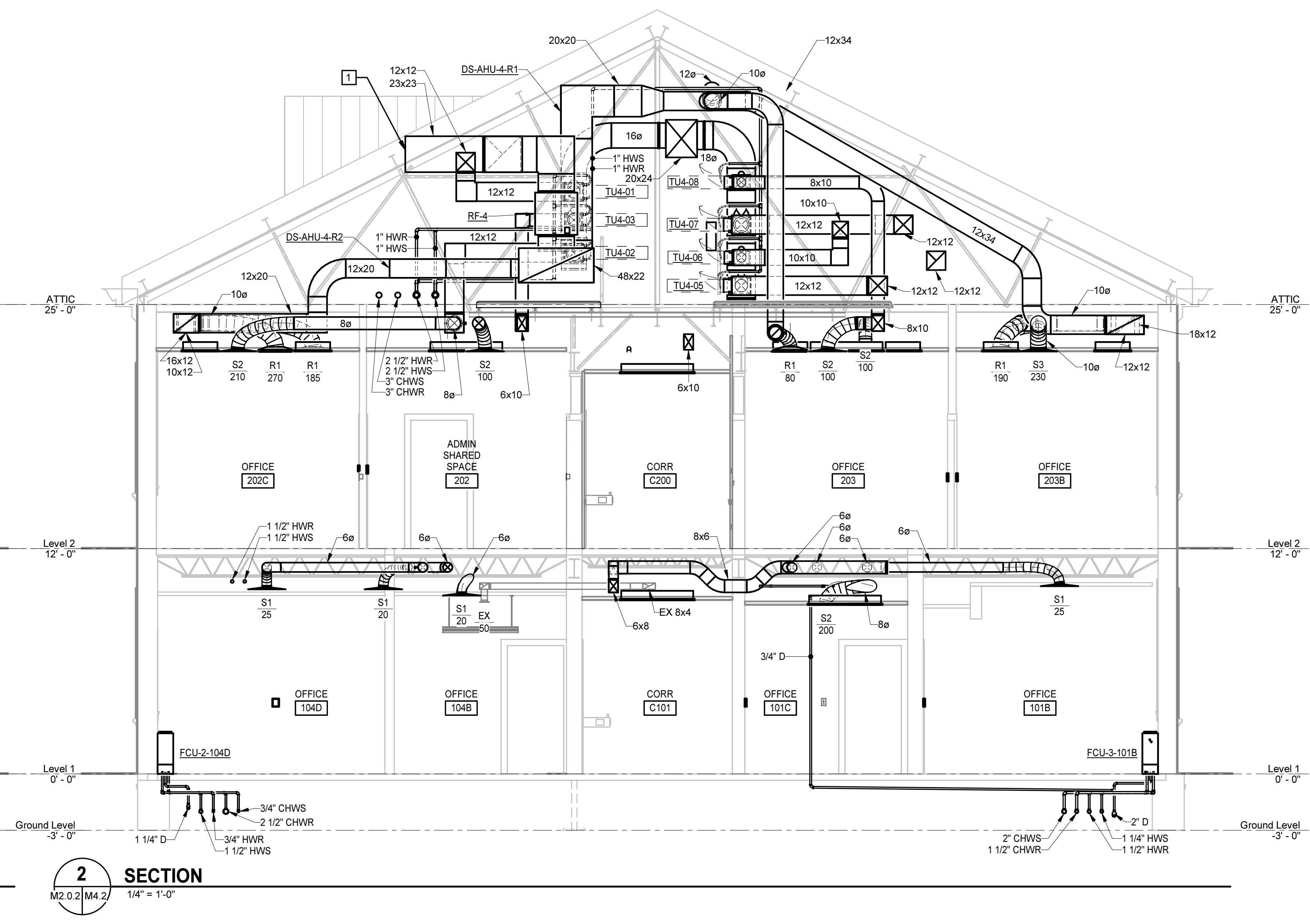
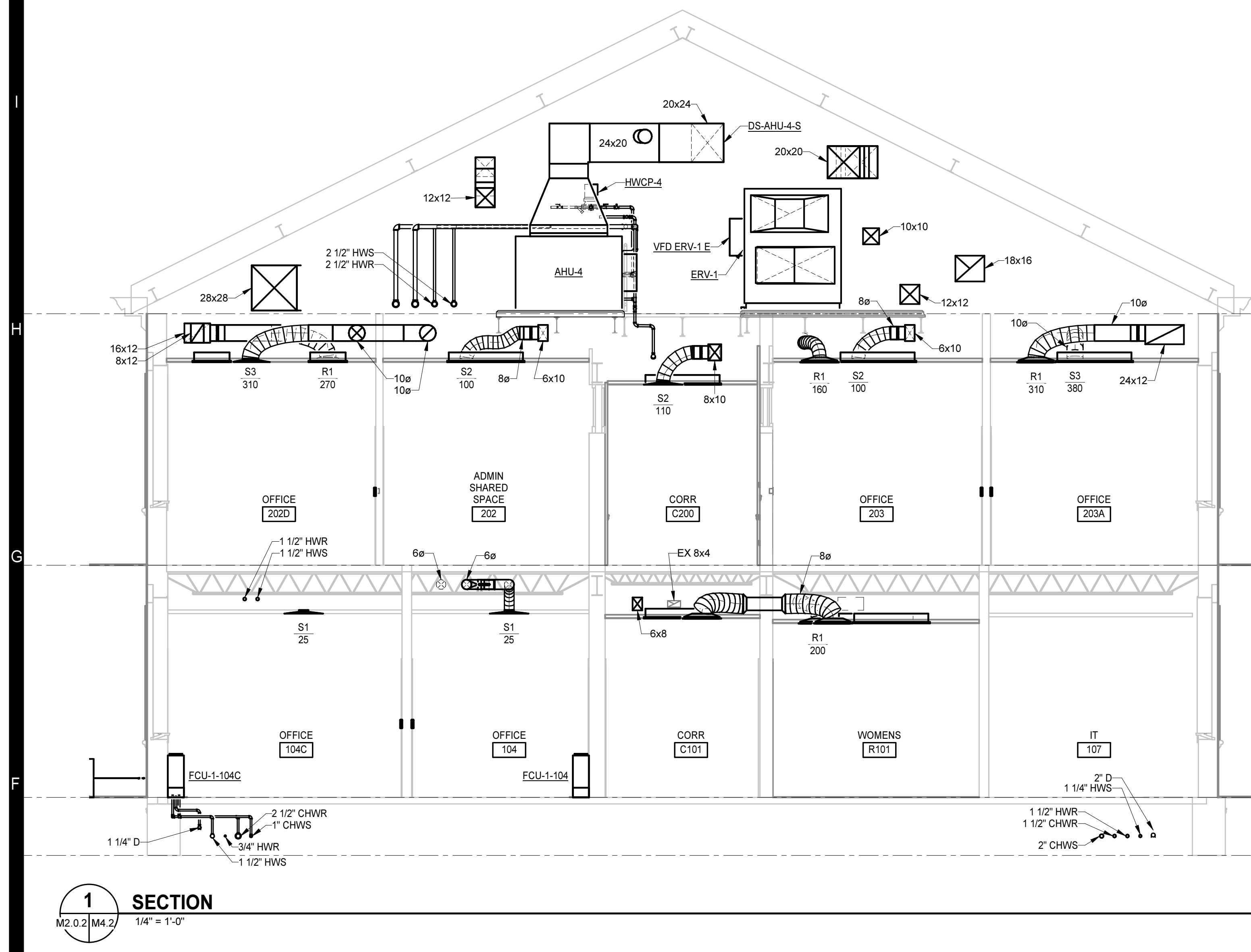
SECTIONS



M4.1



KEYNOTES	
APPLIES TO THIS DRAWING	
1	CONNECT EXHAUST DUCT INTO DORMER FOR DISCHARGE THROUGH EXISTING DORMER LOUVER.
2	DISCHARGE CONDENSATE DRAIN TO FLOOR DRAIN.



ALDERMAN HALL RENOVATION
 UNIVERSITY OF NORTH CAROLINA WILMINGTON
 SCO # 22-24639-01D
 601 College Rd, Wilmington, NC 28403

PROJECT NO.	620589
DATE	AUGUST 15, 2023
REVISIONS	
DATE	DESCRIPTION

REVISIONS	DATE	DESCRIPTION

SECTIONS

M4.2

AIR HANDLING UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	SUPPLY FAN										HYDRONIC COOLING COIL										HYDRONIC PRE-HEATING COIL										ELECTRICAL DATA						ACOUSTIC PERFORMANCE																																											
				FAN WHEEL					OUTSIDE AIR DESIGN					EAT					LAT					WATER					DESIGN					SENSIBLE					EAT					LAT					WATER					MOTOR DATA			SERVICE			SUPPLY DISCHARGE (dB)								CASING RADIATED (dB)								RETURN INTAKE (dB)							
				DESIGN AIRFLOW (CFM)	ESP (IN WC)	DIA (IN)	TYPE	FAN SPEED (RPM)	FAN SIZE (HP)	BHP (HP)	OUTSIDE AIR DESIGN AIRFLOW (CFM)	UPD (CFM)	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	EWT (°F)	LWT (°F)	WATER FLOW RATE (GPM)	WPD (FT WC)	DESIGN AIRFLOW (CFM)	SENSIBLE CAPACITY (BTUH)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	WATER FLOW RATE (GPM)	WPD (FT WC)	UNIT FLA (A)	UNIT MCA (A)	UNIT MOCIP (A)	(V)	(PH)	(HZ)	WEIGHT (LBS)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ	NOTES																					
AHU-1	VTS	AVS055	FIRST FLOOR - NORTH	5,500	2.50	22.00	DD PF	2090	7.50	6.2	1,025	1,025	263,950	176,510	81.1	67.7	52.0	51.9	42	60	29	15.0	5,500	65,340	40.0	60.0	130	100	5	15.0	9.5	11.9	15.0	480	3	60	2,500	78	83	89	90	87	84	79	75	66	71	76	76	73	70	49	36	65	75	81	82	77	72	57	53	1-5																					
AHU-2	VTS	AVS012	FIRST FLOOR - SOUTH	850	1.50	10.00	DD PF	3385	1.50	0.7	850	850	80,470	37,990	85.0	75.4	52.0	51.9	42	60	9	15.0	850	43,150	23.0	70.0	130	100	3	15.0	1.4	1.8	15.0	480	3	60	1,500	71	76	83	83	80	77	72	66	50	65	69	67	64	43	30	54	66	73	72	66	58	30	1-6																							
AHU-3	VTS	AVS055	SECOND FLOOR - WEST	6,000	2.50	22.00	DD PF	2090	10.00	8.2	1,100	1,100	288,330	192,560	81.1	67.7	52.0	51.9	42	60	32	15.0	6,000	77,760	48.0	60.0	130	100	6	15.0	12.0	15.0	25.0	480	3	60	2,500	78	82	89	89	86	83	78	74	66	71	76	76	73	70	49	36	64	74	81	82	78	71	56	52	1-5																					
AHU-4	VTS	AVS055	SECOND FLOOR - EAST	5,000	2.50	22.25	DD PF	1860	7.50	4.9	825	825	232,940	158,200	80.7	67.3	52.0	51.9	42	60	26	15.0	5,000	54,000	50.0	60.0	130	100	4	15.0	9.5	11.9	15.0	480	3	60	2,400	77	82	89	89	86	83	78	74	65	71	75	75	72	69	48	36	64	74	81	81	76	71	56	52	1-5																					

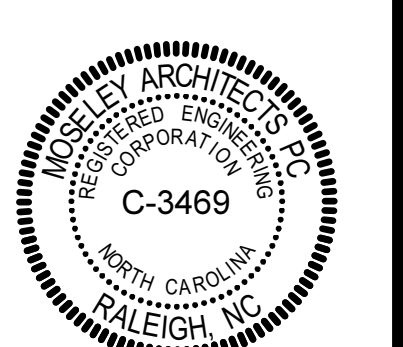
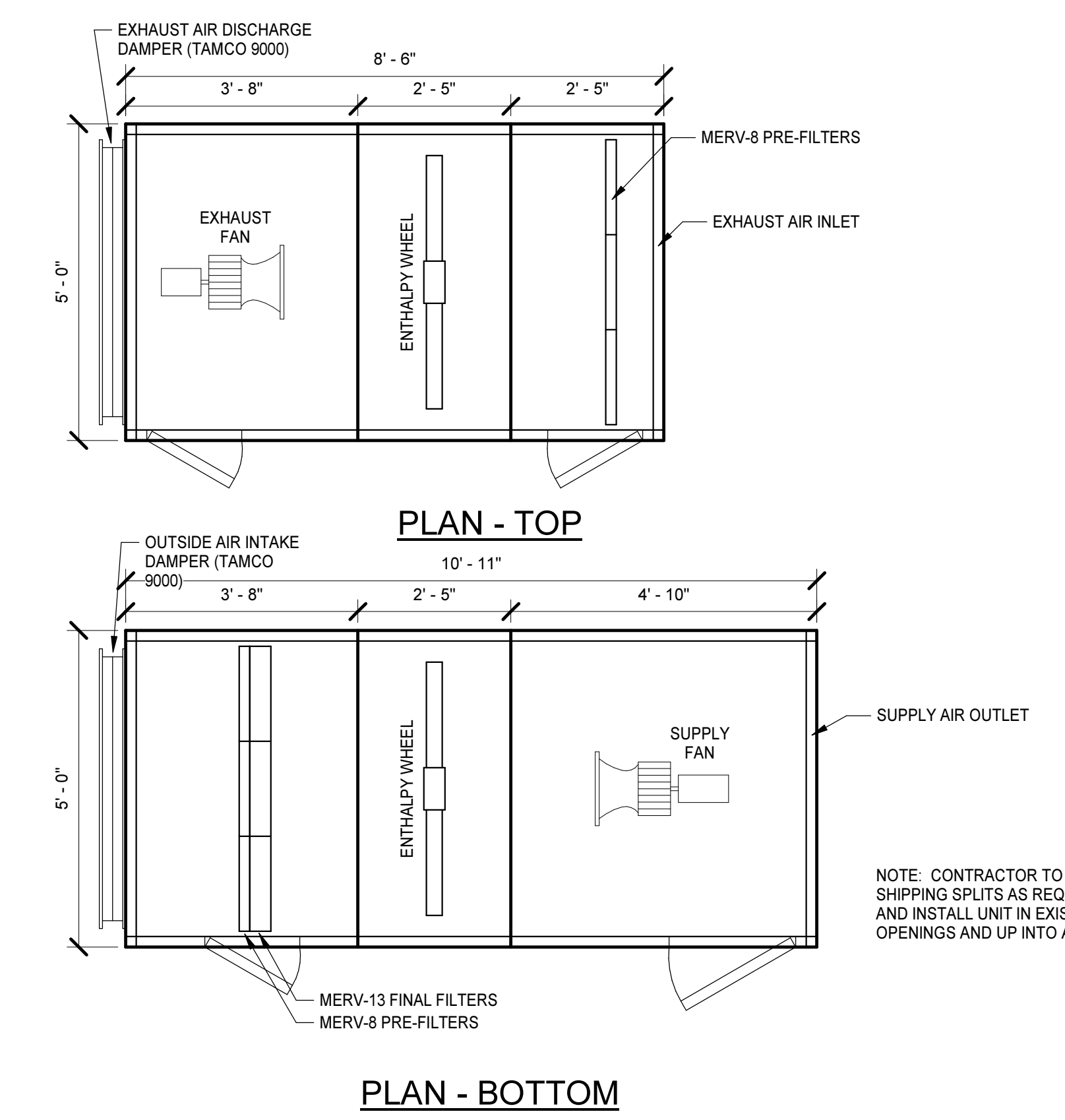
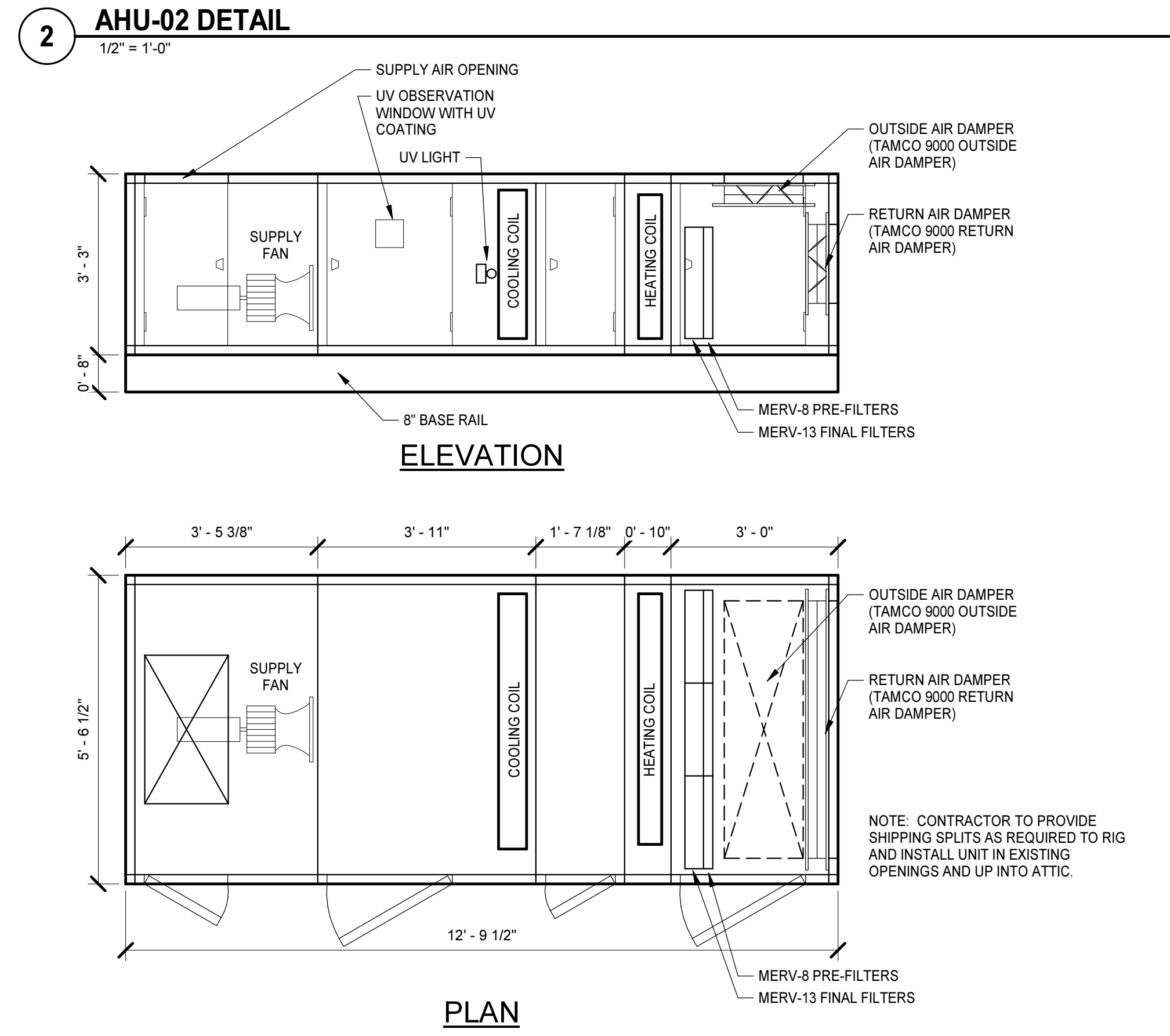
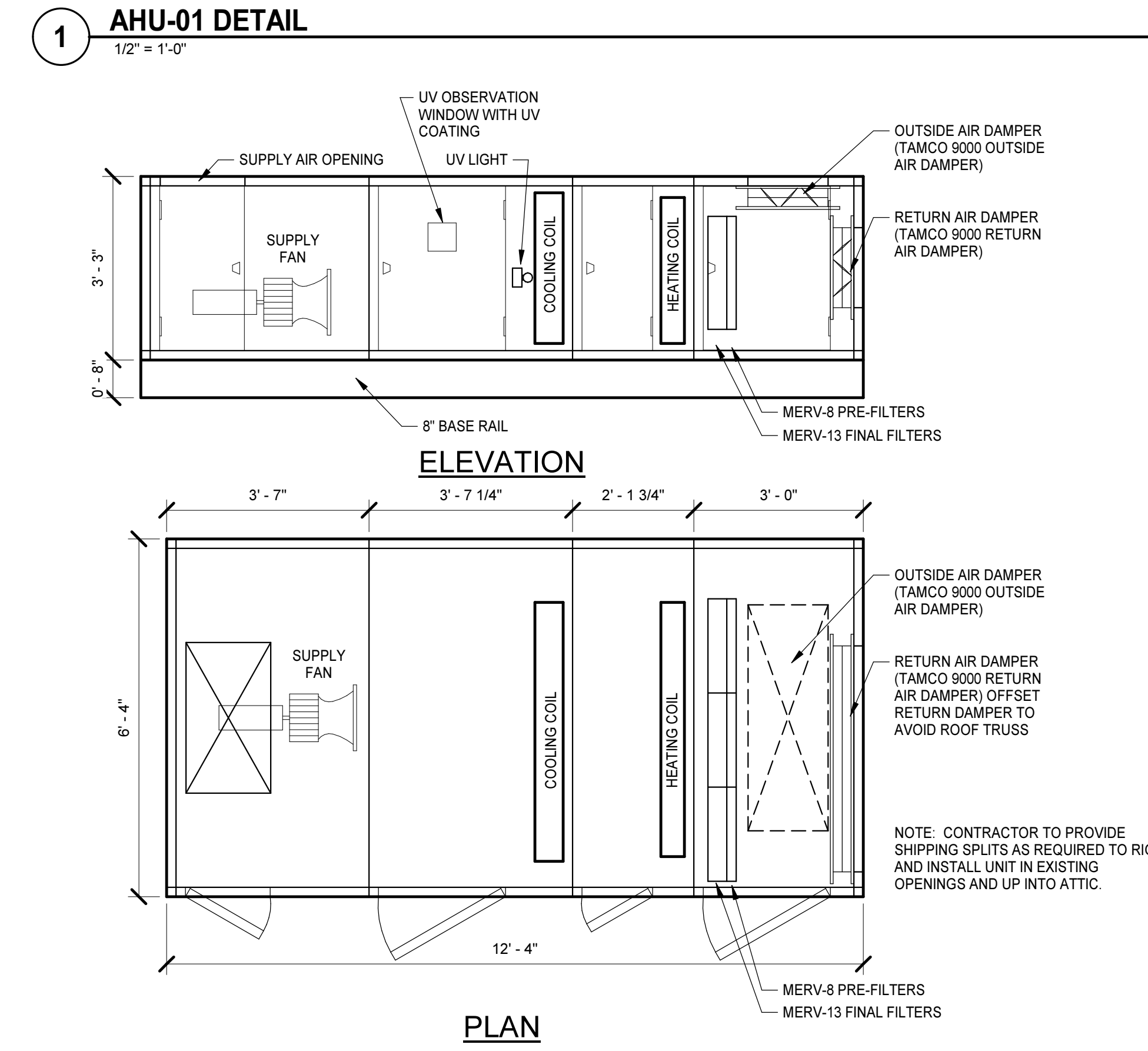
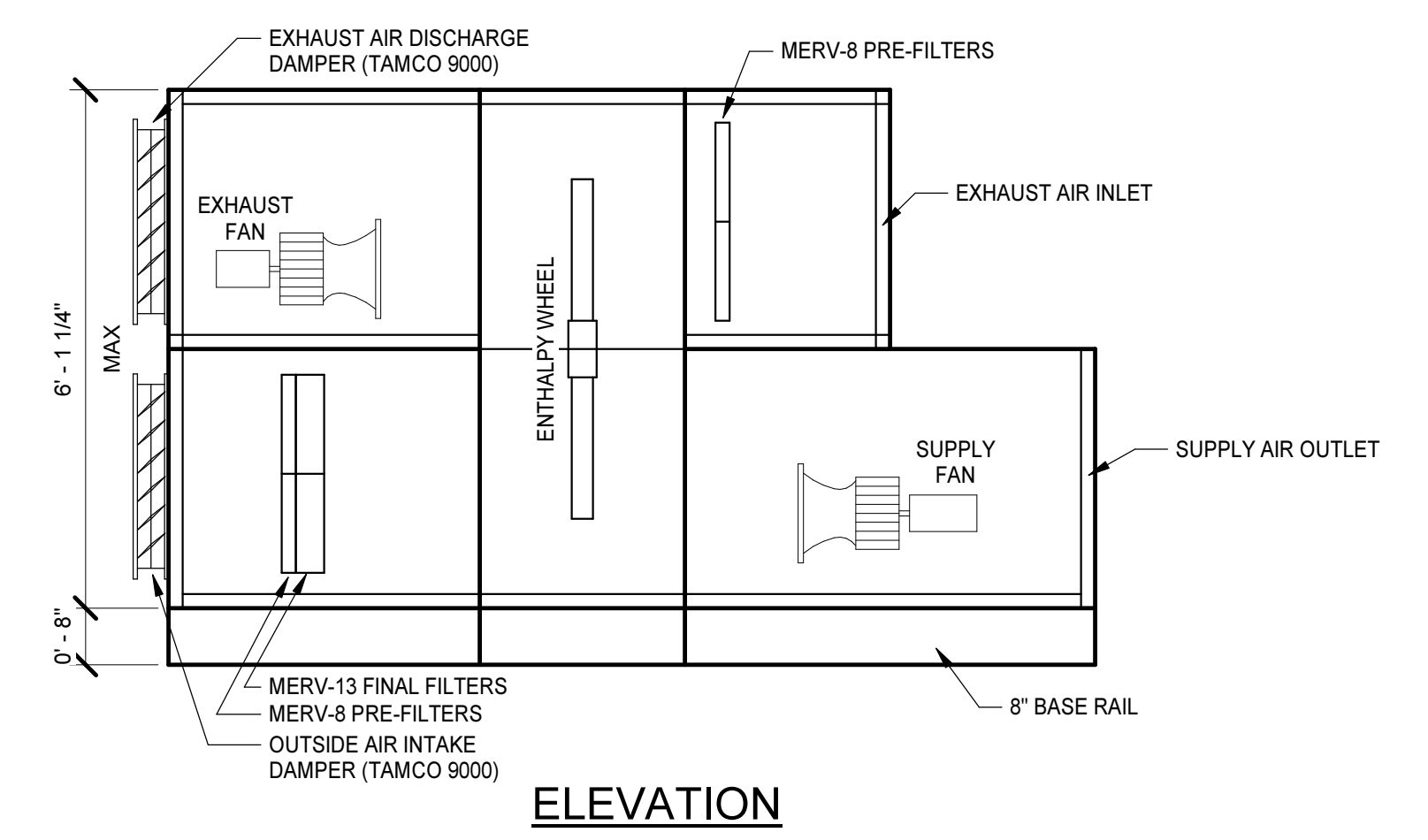
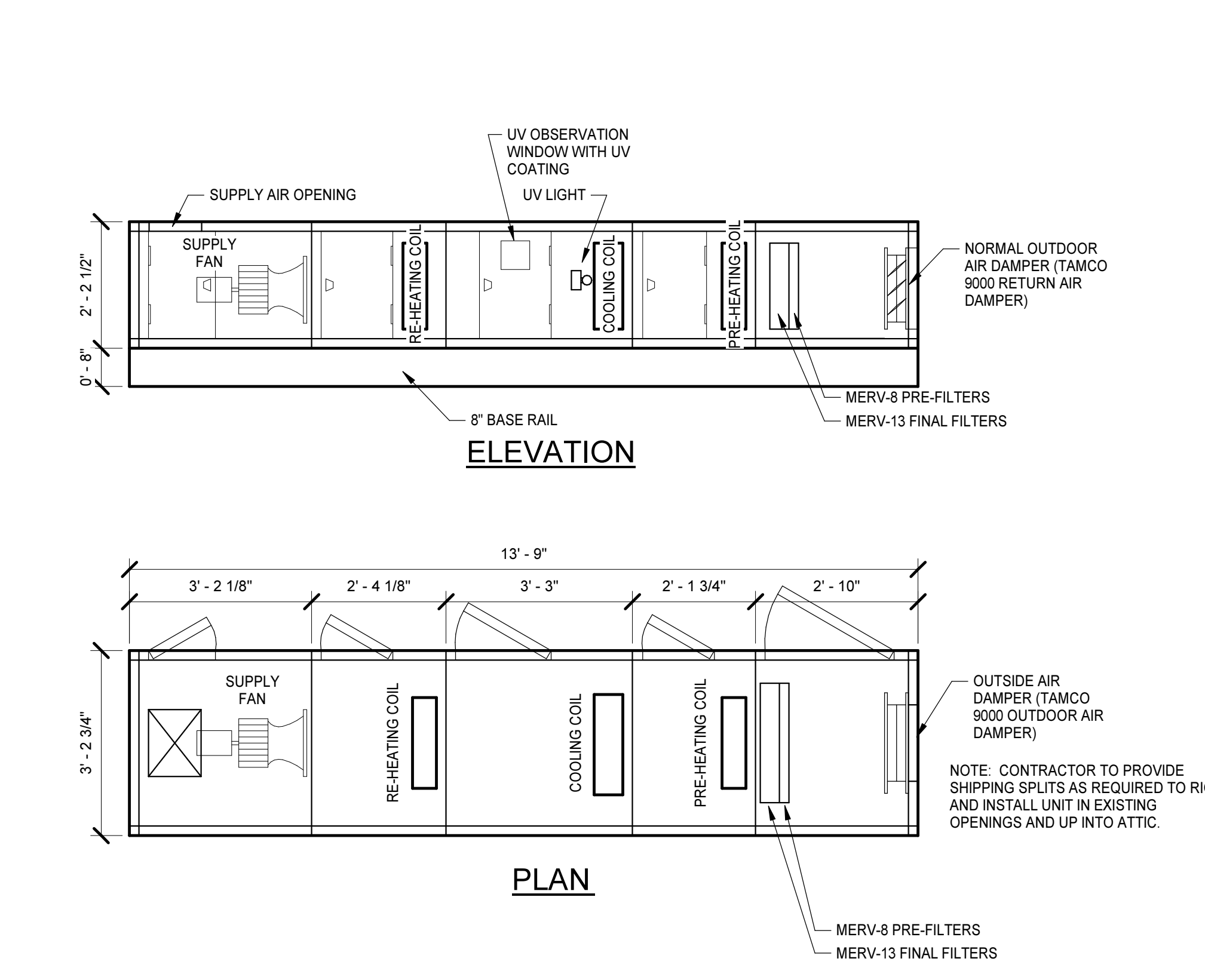
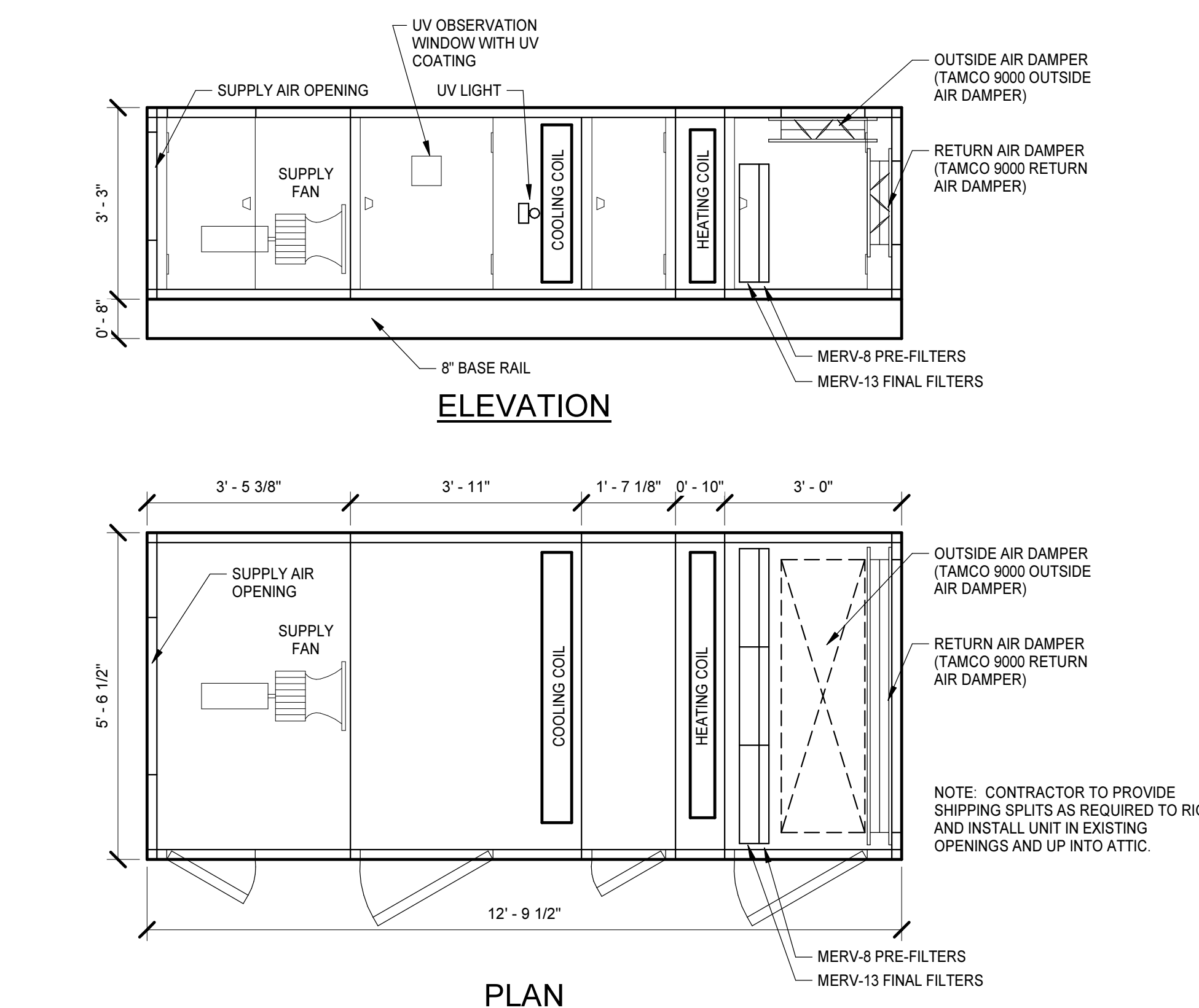
NOTES:
 1. PROVIDE MOTORS RATED FOR USE WITH VARIABLE FREQUENCY DRIVE. PROVIDE GROUNDING RING ON MOTOR. FACTORY MOUNT VARIABLE FREQUENCY DRIVE ON SIDE OF UNIT & WIRE TO MOTOR IN VFD RATED CABE.
 2. CHILLED WATER COIL SHALL BE SELECTED WITH MINIMUM WATER REYNOLDS NUMBER OF 5500 OR A MINIMUM TUBE VELOCITY OF 4 FPS AT DESIGN CONDITIONS. WATER PRESSURE DROP SCHEDULED IS THE MAXIMUM ALLOWABLE WATER PRESSURE DROP. MAXIMUM AIRFLOW VELOCITY AT DESIGN CONDITIONS SHALL BE 450 FPM OR LOWER.
 3. PROVIDE 2" MERV-8 PRE-FILTER RACK AND 4" THICK MERV-13 FINAL FILTER RACK.
 4. HEATING COIL AND COOLING COIL SELECTIONS BASED ON CLEAR WATER.
 5. PROVIDE UV LIGHT(S) AT COOLING COIL AND DRAIN PAN. REFER TO SECTION 237313 FOR ADDITIONAL DETAILS. UV LIGHTS SHALL HAVE DEDICATED 120V/16 15A MOP POWER CIRCUIT. CIRCUIT TO HAVE DOOR INTERLOCK SWITCH THAT DISABLES UV LIGHT UPON OPENING OF SERVICE DOOR OF AIR HANDLING UNIT.
 6. PROVIDE RE-HEAT COIL SIZED FOR 3 GPM FLOW AT 52°F EAT, 70°F LAT, AND 100°F EWT.

ENERGY RECOVERY VENTILATOR SCHEDULE

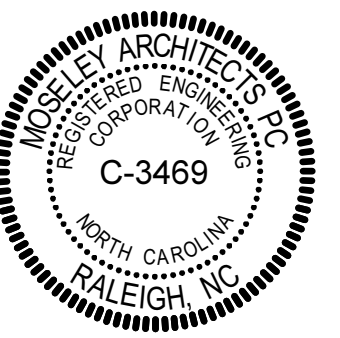
TAG	MANUFACTURER	MODEL NUMBER	SERVING	SUPPLY FAN				EXHAUST FAN				ENTHALPY WHEEL								ELECTRICAL DATA						ACOUSTIC PERFORMANCE																																
				DESIGN AIRFLOW (CFM)		ESP (IN WC)		MOTOR SIZE (HP)		DESIGN AIRFLOW (CFM)		ESP (IN WC)		MOTOR SIZE (HP)		SUMMER				WINTER				SERVICE			SUPPLY DISCHARGE (dB)								CASING RADIATED (dB)								EXHAUST INTAKE (dB)															
				EAT (°F DB)	(°F WB)	LAT (°F DB)	(°F WB)	EAT (°F DB)	(°F WB)	LAT (°F DB)	(°F WB)	EAT (°F DB)	(°F WB)	LAT (°F DB)	(°F WB)	DESIGN AIRFLOW (CFM)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	DESIGN AIRFLOW (CFM)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(V)	(PH)	(HZ)	WEIGHT (LBS)	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	NOTES				
ERV-1	VTS	AVS040	BUILDING VENTILATION & EXHAUST	3,800	0.75	2520	5	1,800	0.75	1530	2	3,800	95.0	78.0	66.6	73.4	23.0	20.0	46.2	41.0	1,800	80.0	67.0	91.3	77.2	70.0	58.0	29.5	26.3	480	3	60	2,000	76	81	87	88	85	82	77	73	54	69	74	74	71	68	47	34	66	75	80	80	76	71	63	58	1, 2, 3

NOTES:
 1. PROVIDE MOTORS RATED FOR USE WITH VARIABLE FREQUENCY DRIVE. PROVIDE GROUNDING RING ON MOTOR. FACTORY MOUNT VARIABLE FREQUENCY DRIVE ON SIDE OF UNIT & WIRE TO MOTOR IN VFD RATED CABE.
 2. PROVIDE 2" MERV-8 PRE-FILTER RACK FOR BOTH SUPPLY AND EXHAUST AND A 4" THICK MERV-13 FINAL FILTER RACK FOR SUPPLY ONLY.
 3. SCHEDULED OUTSIDE AIR AND EXHAUST AIR DO NOT INCLUDE ANY ALLOWANCES FOR PURGE AIRFLOW OR SEAL LEAKING IN THE ENTHALPY WHEEL. FINAL EXHAUST SELECTION AND OUTSIDE AIRFLOW SETPOINT SHALL INCORPORATE ADJUSTED VALUES.

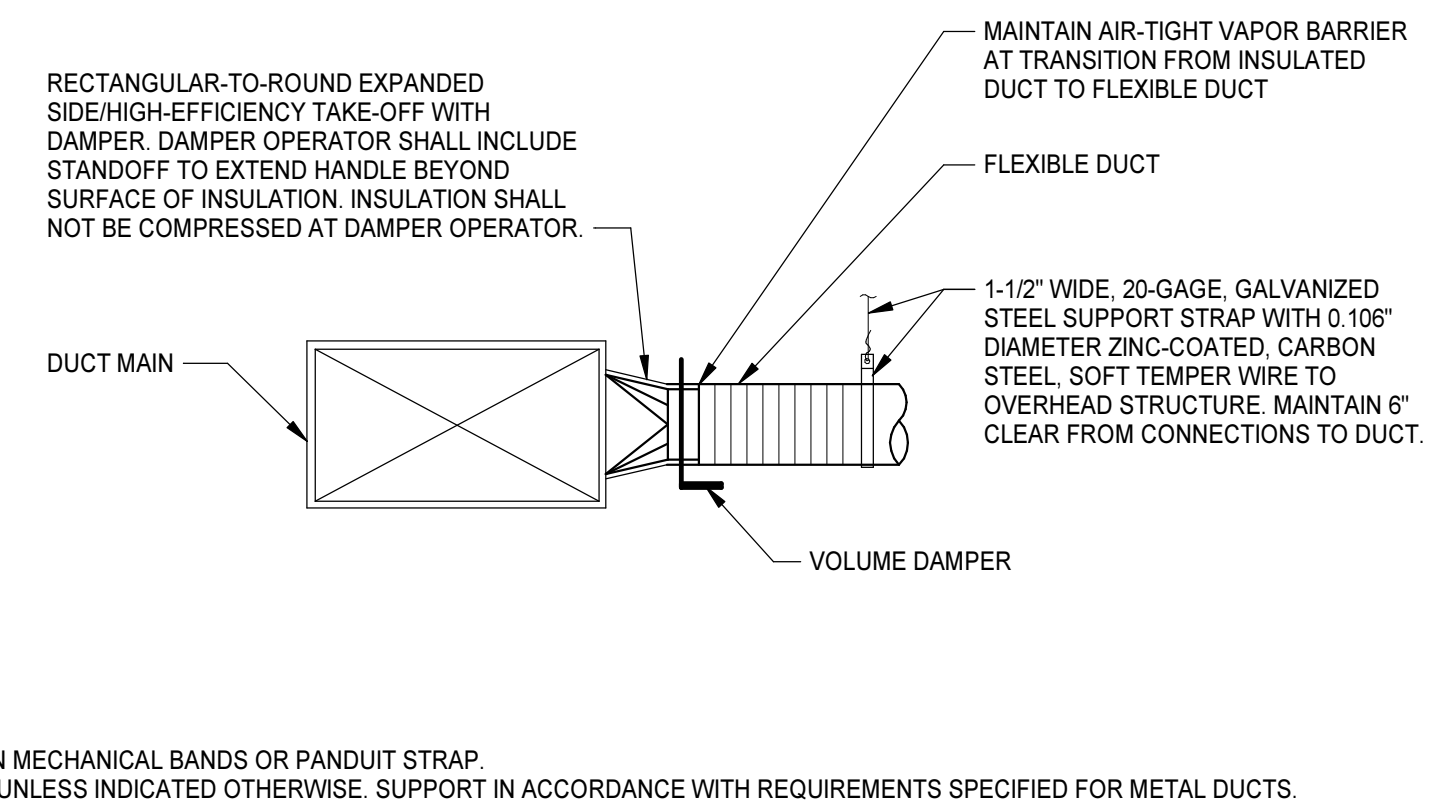
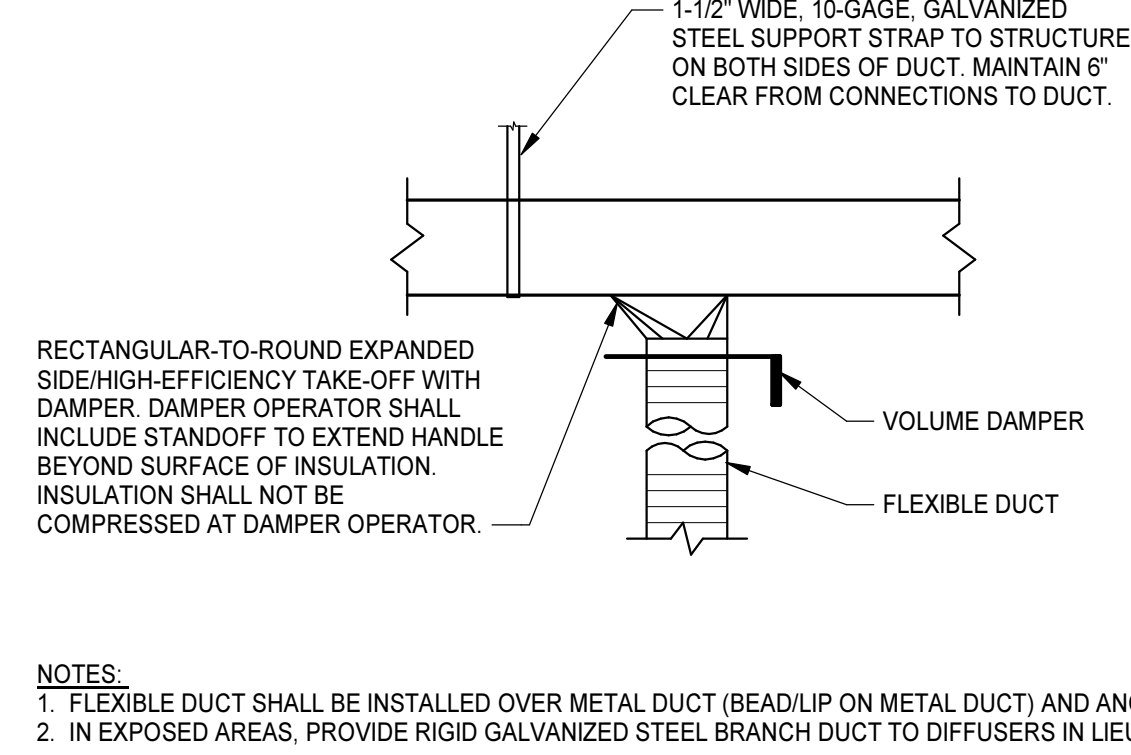
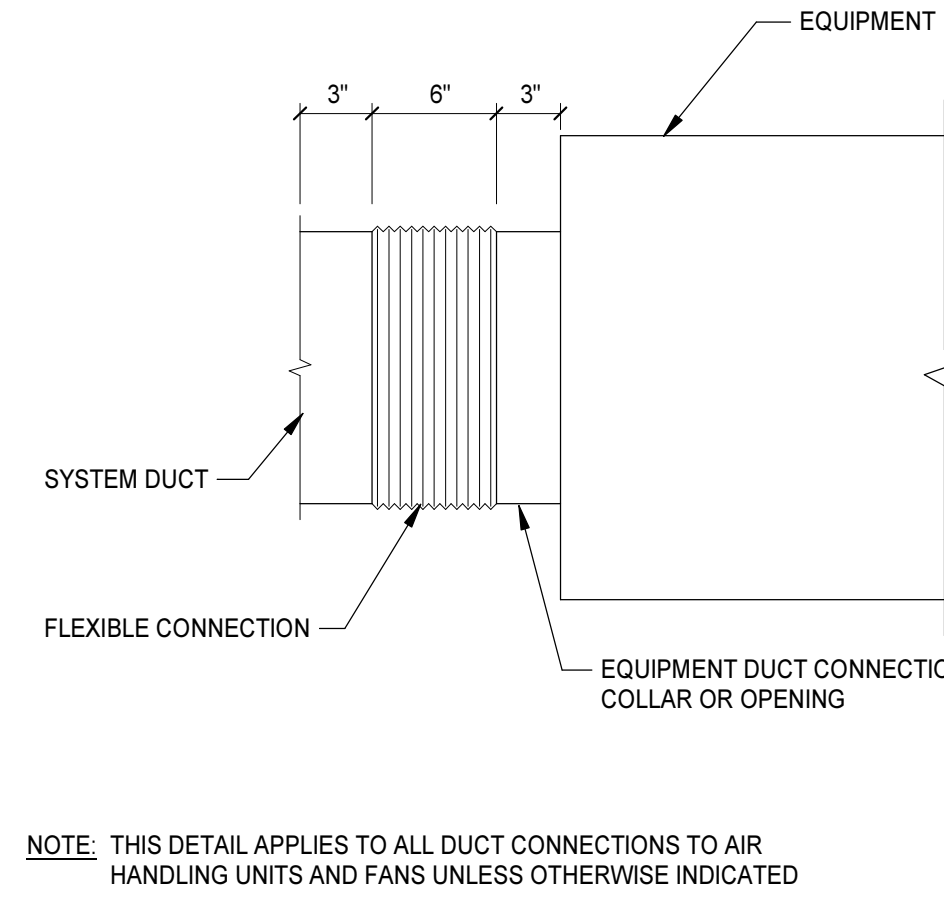
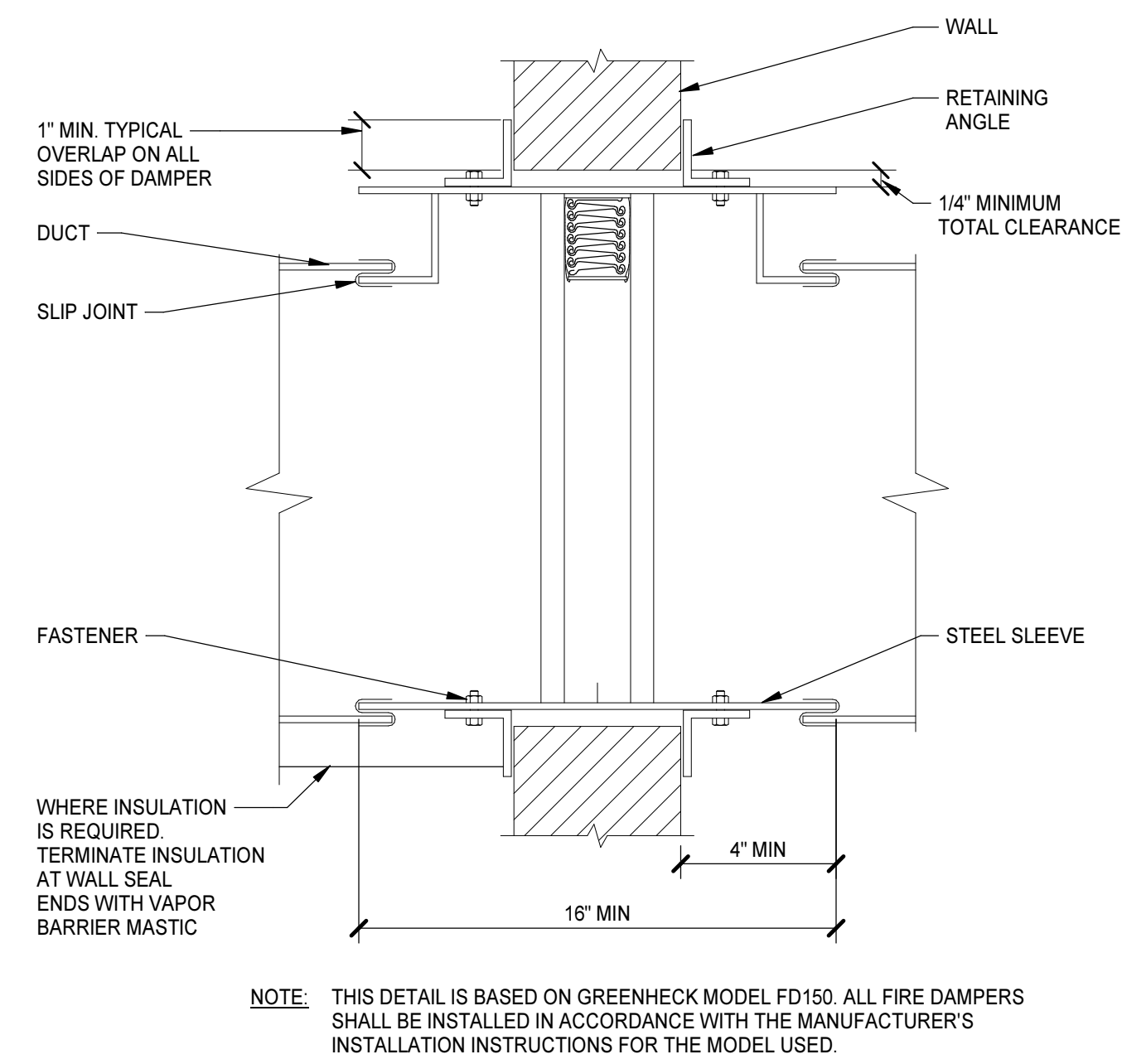
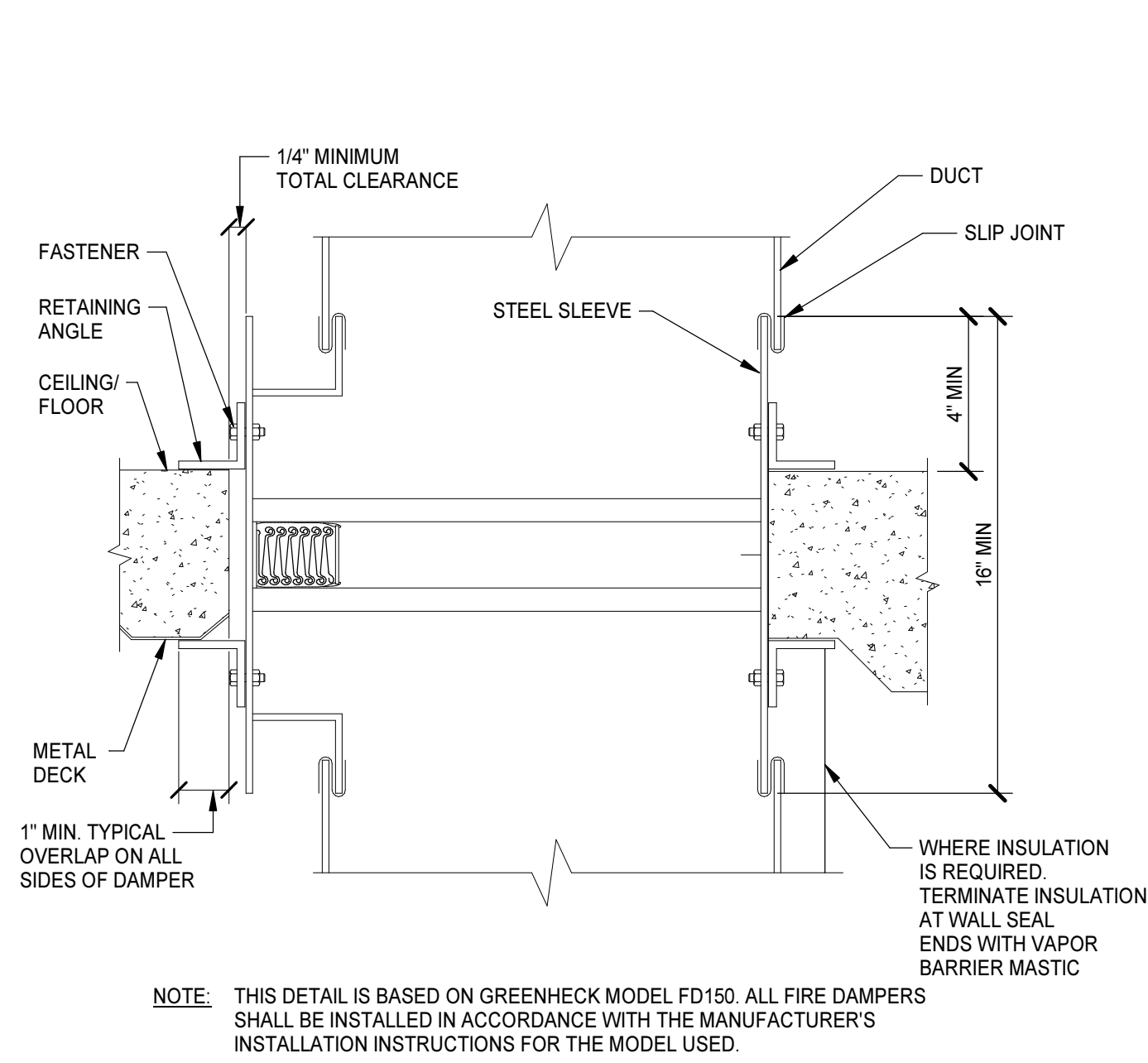
NOTE: EQUIPMENT IS INCLUDED IN THE EARLY EQUIPMENT PACKAGE. INFORMATION SHOWN HERE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR INSTALLING THESE UNITS.



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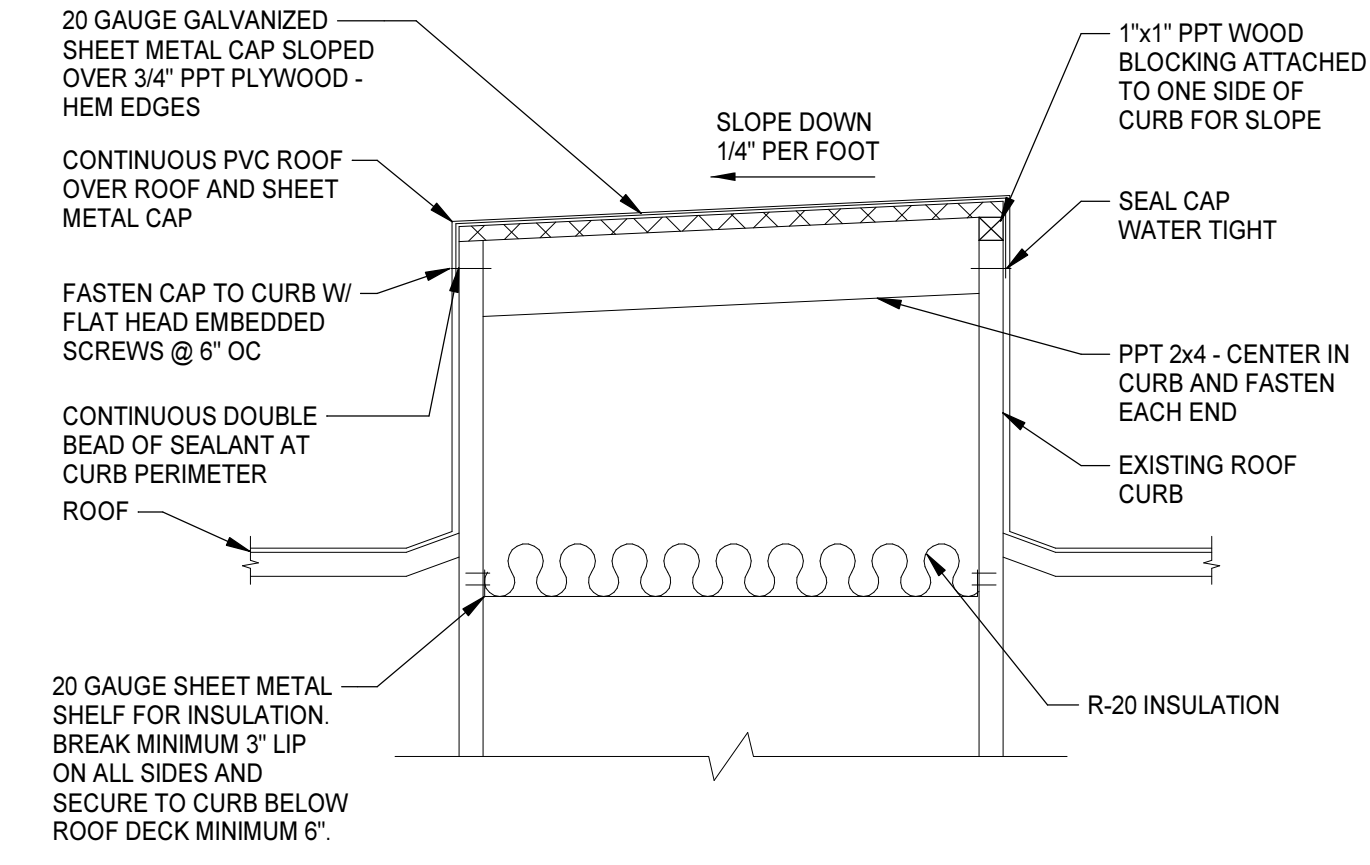
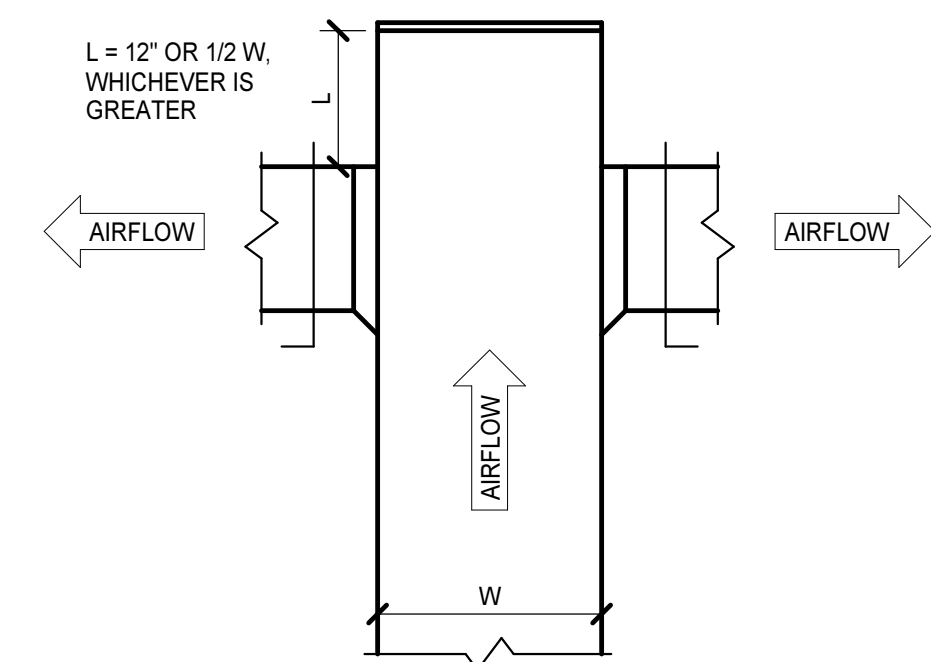
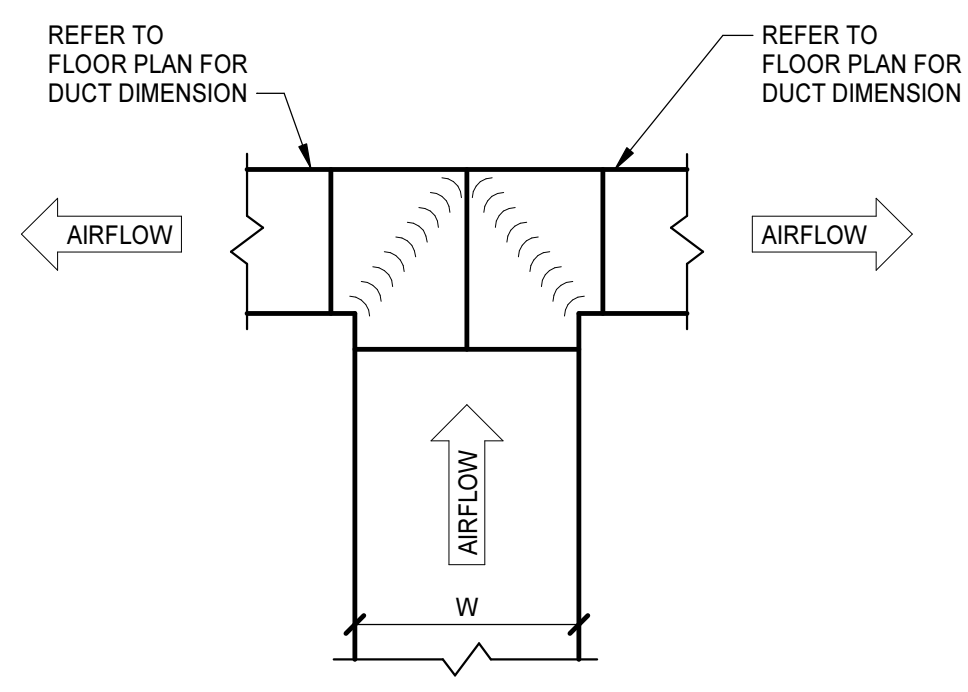
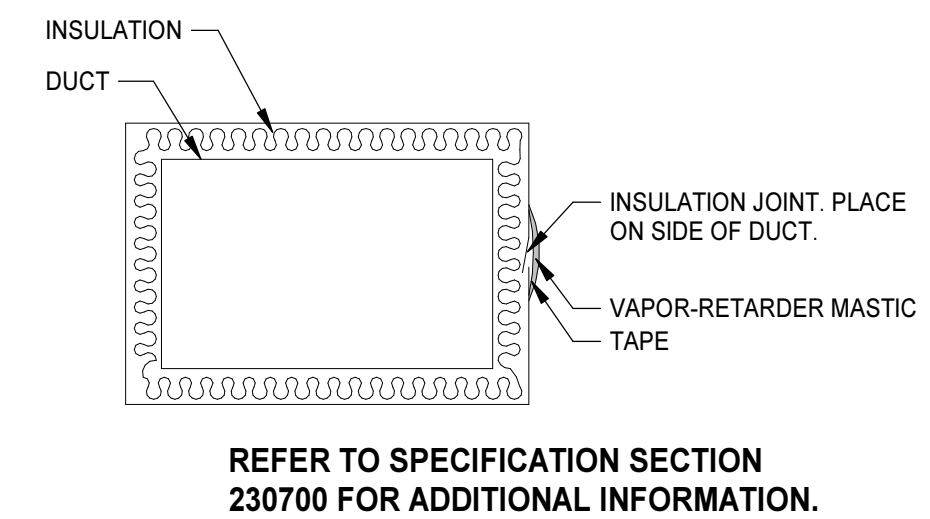
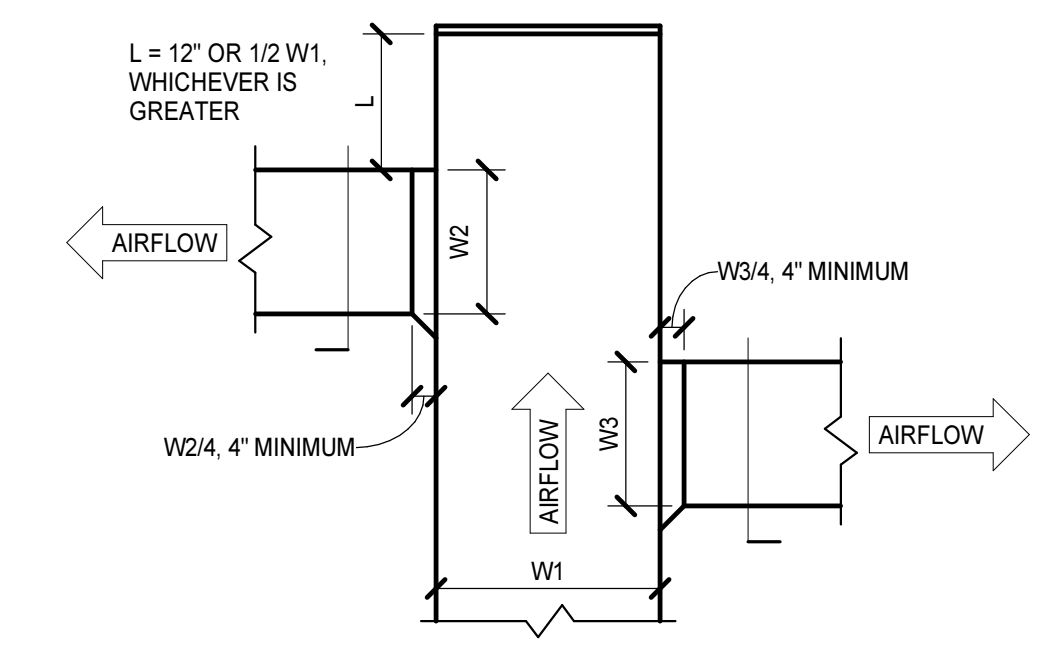


1 FIRE DAMPER INSTALLATION DETAIL - TYPE B (HORIZONTAL)
NO SCALE

2 FIRE DAMPER INSTALLATION DETAIL - TYPE B (VERTICAL)
NO SCALE

3 EQUIPMENT DUCT CONNECTION DETAIL
NO SCALE

4 BRANCH CONNECTION TO DIFFUSER DETAILS
NO SCALE

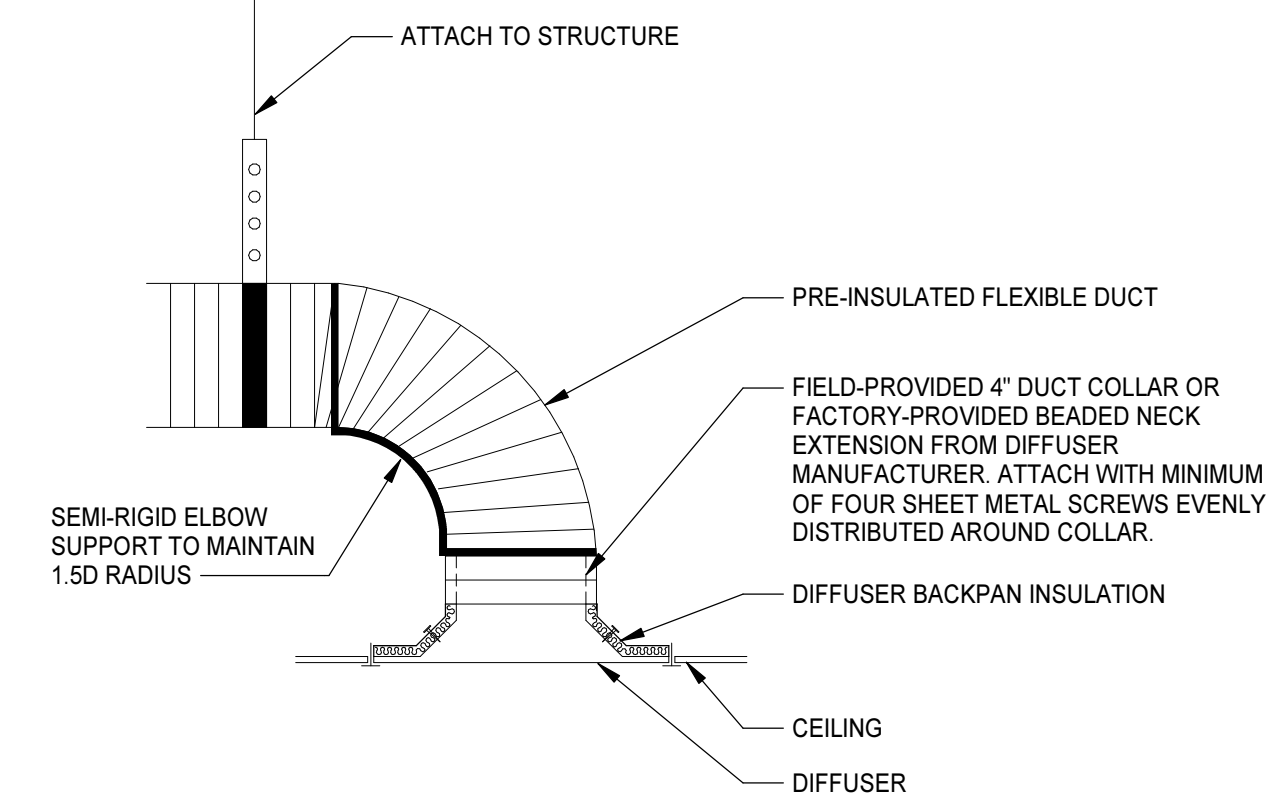
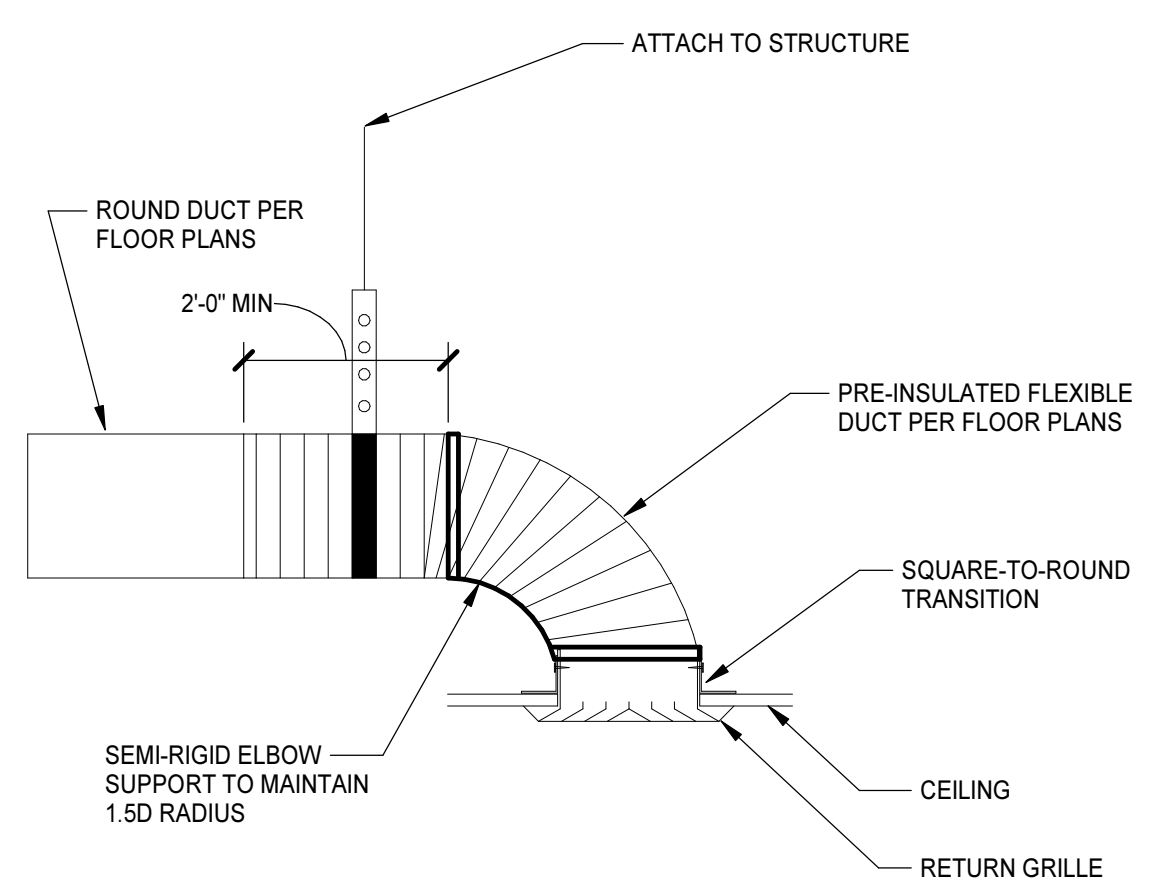
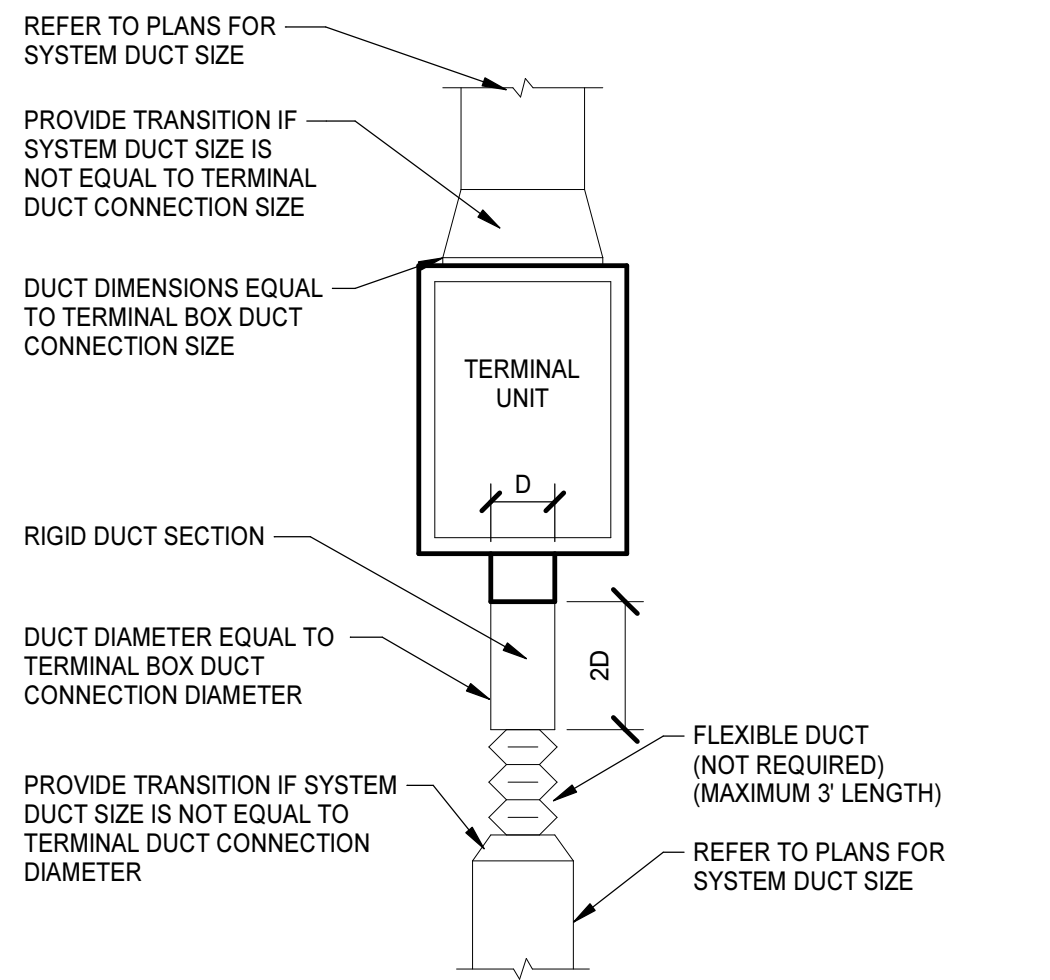


5 END OF DUCT MAIN DETAIL
NO SCALE

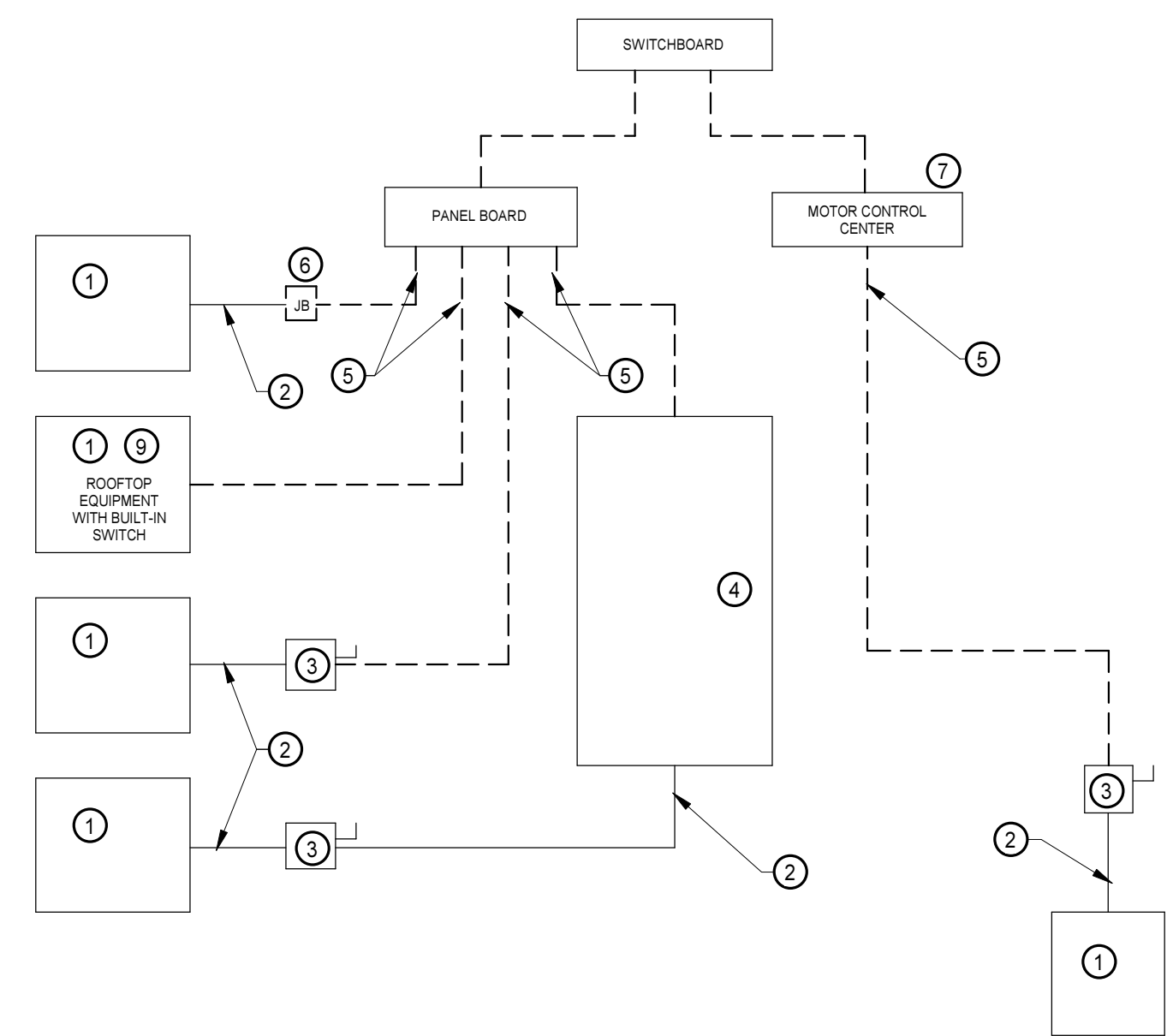
6 DUCT INSULATION JOINT DETAIL
NO SCALE

7 DIVIDED FLOW BRANCH DETAILS
NO SCALE

8 EXISTING ROOF CURB CAP DETAIL
NO SCALE



- MECHANICAL EQUIPMENT
- CONDUIT AND WIRING BY MECHANICAL CONTRACTOR.
- IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
- FEDDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE ELECTRICAL DRAWINGS.
- JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT; IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR.
- PROJECTS UTILIZING AN MCC, THE STARTER, JB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL DRAWINGS.
- IN ALL CASES, THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
- IF THE ROOFTOP FAN IS NOT PROVIDED WITH A BUILT-IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
- IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND OTHER TRADES.

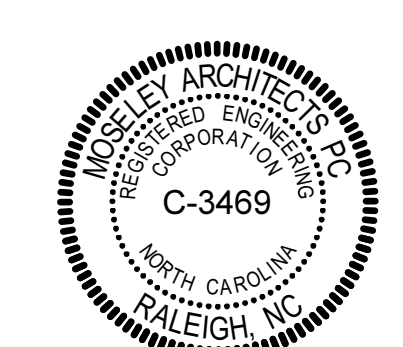


9 TERMINAL DUCT CONNECTION DETAIL
NO SCALE

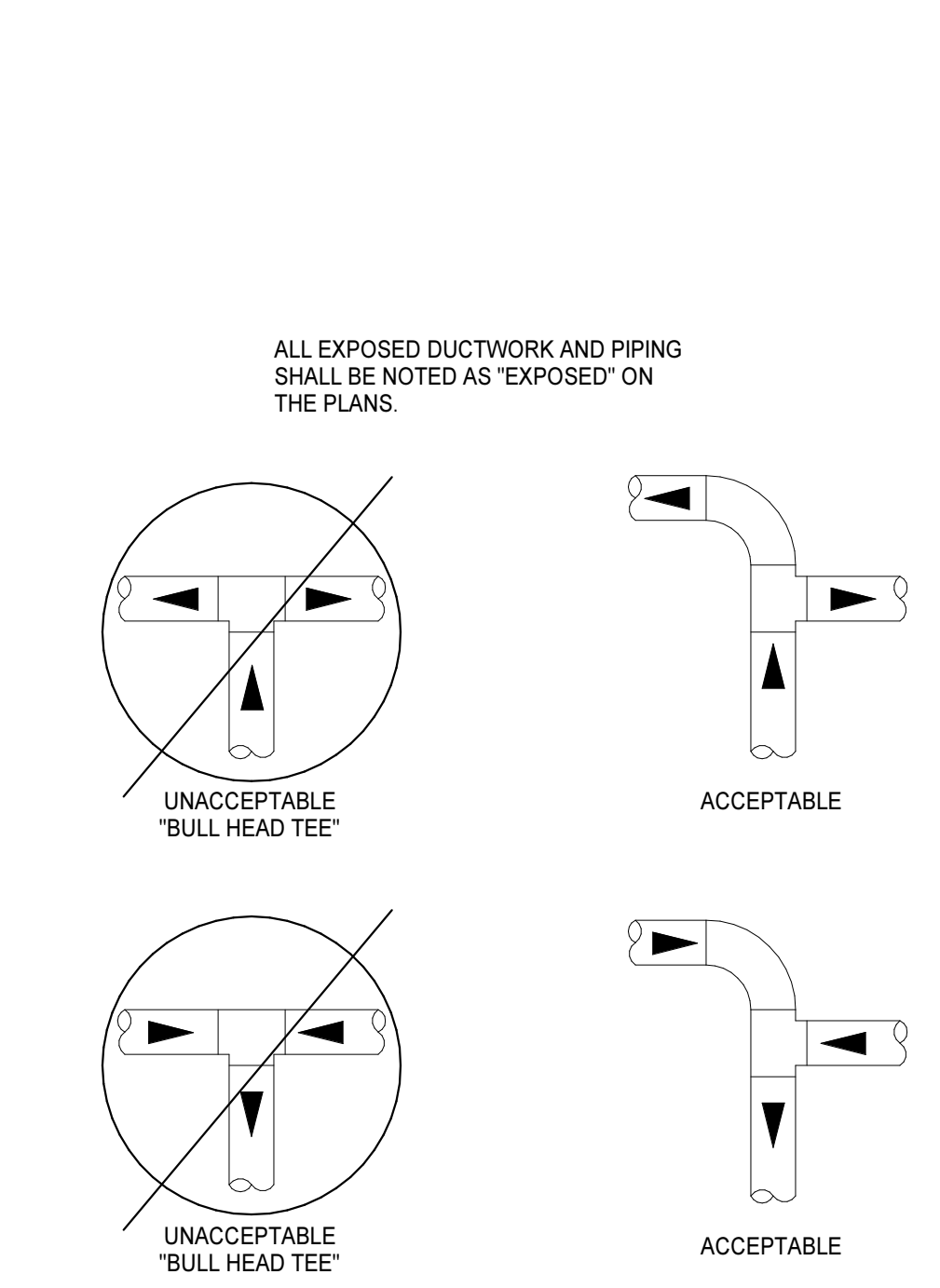
10 RETURN & EXHAUST AIR GRILLE DETAIL
NO SCALE

11 FLEXIBLE DUCT TO DIFFUSER CONNECTION DETAIL
NO SCALE

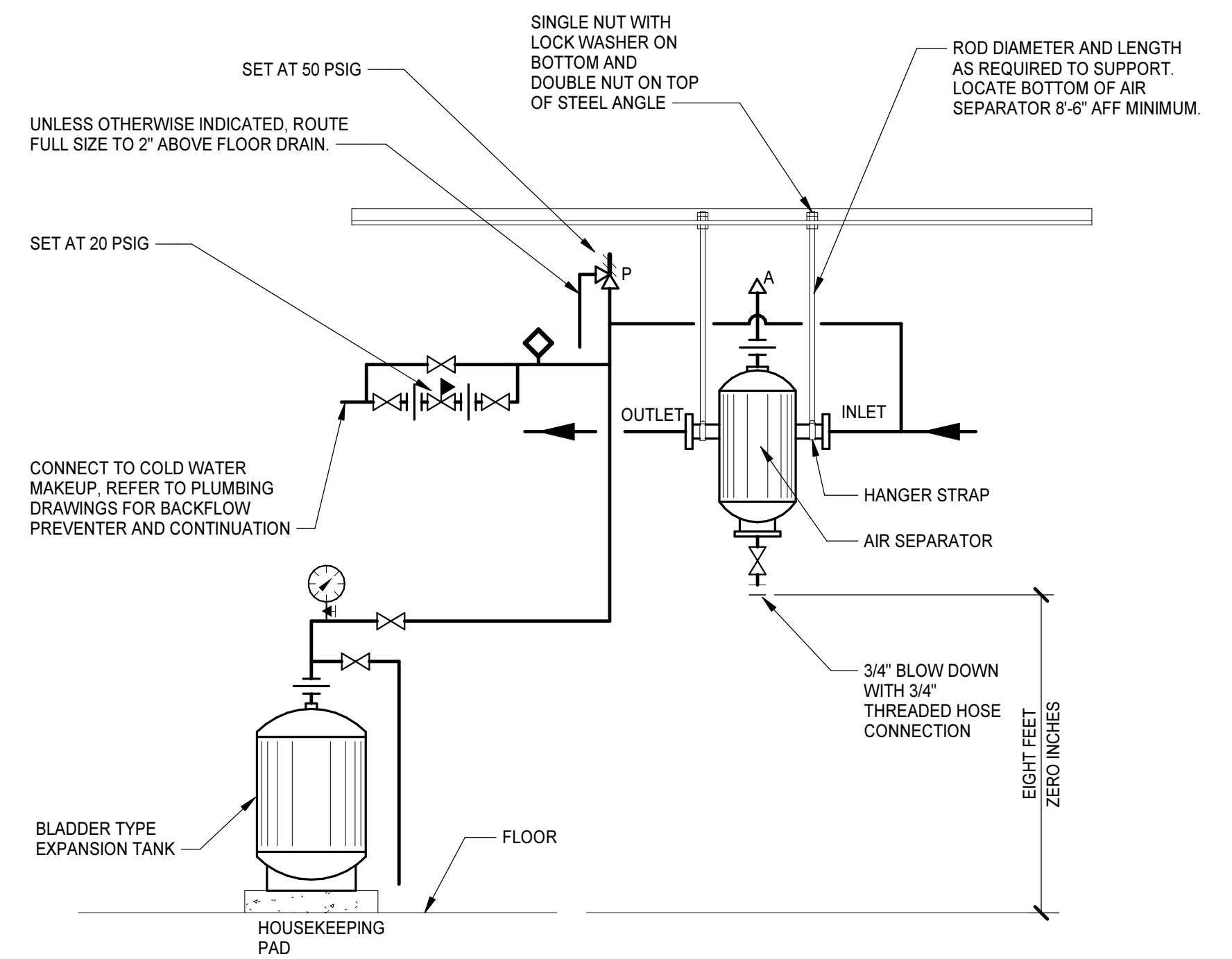
12 DIVISION 23 AND 26 COORDINATION DETAIL
NO SCALE



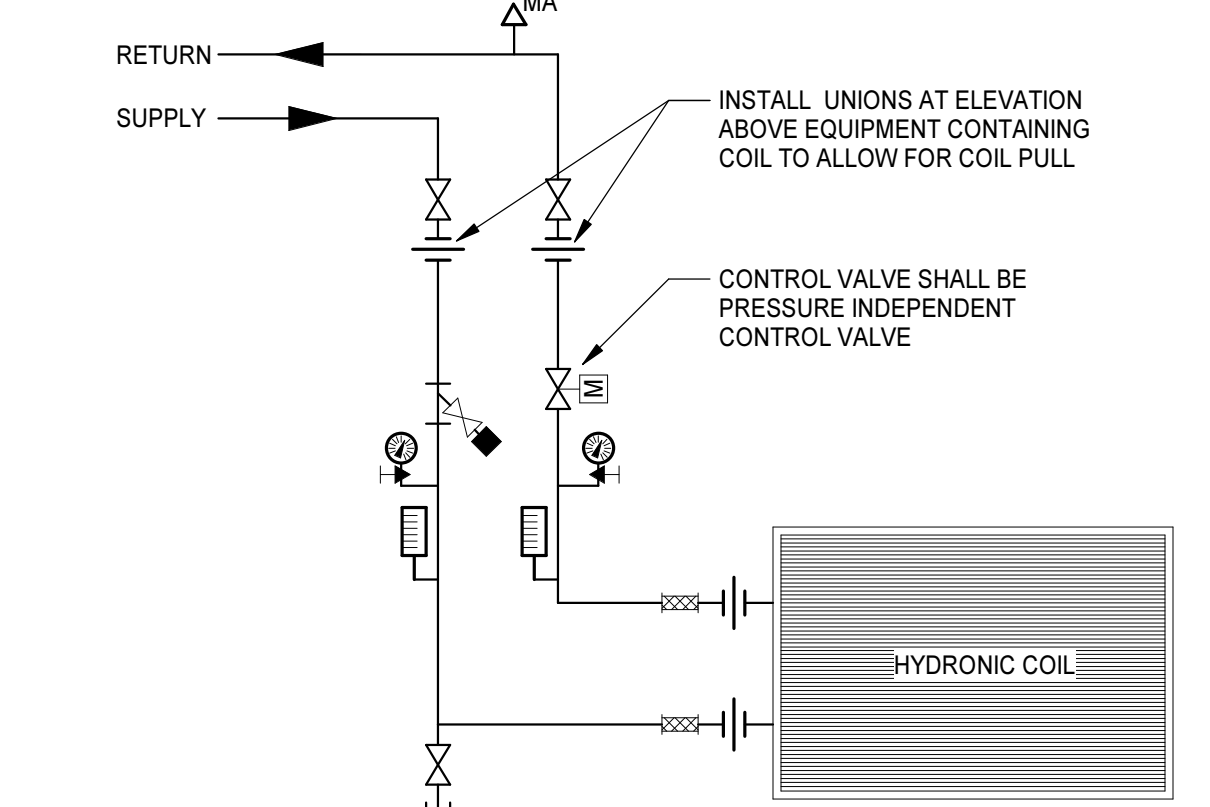
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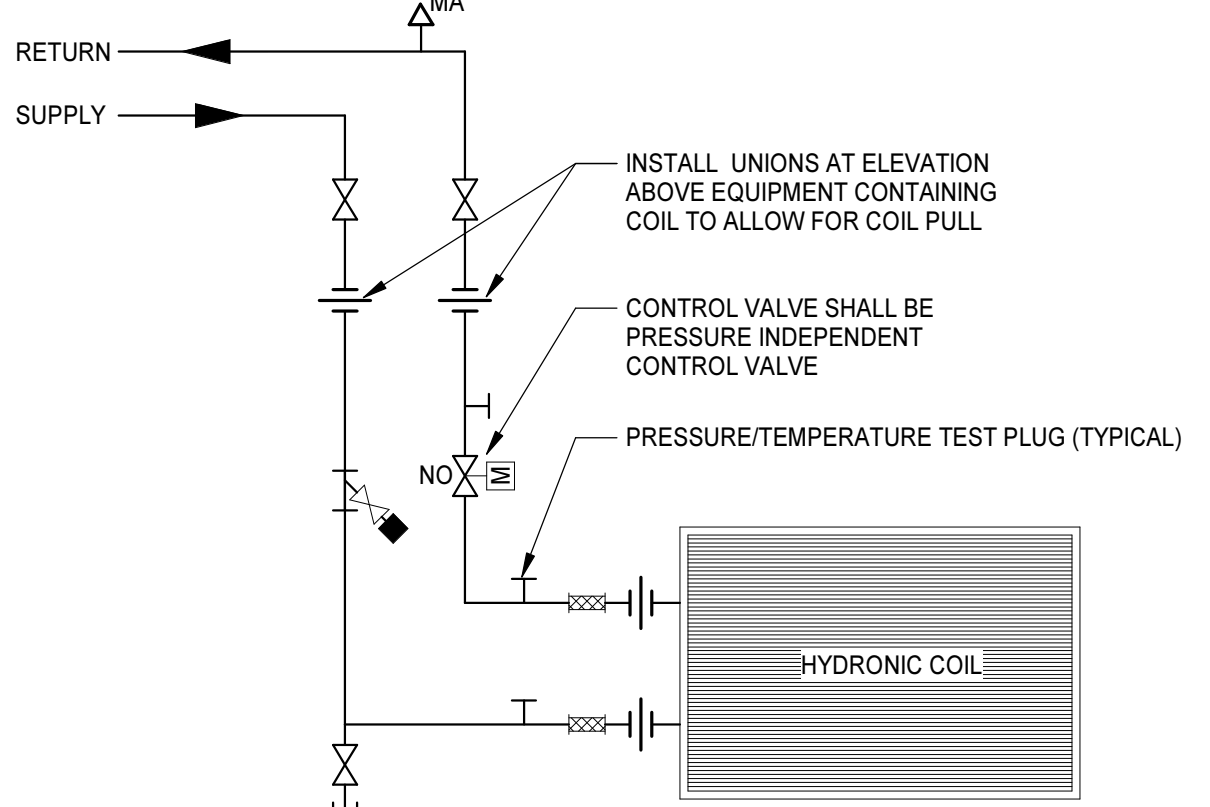
1 PIPE TEE CONFIGURATION DETAIL
NO SCALE



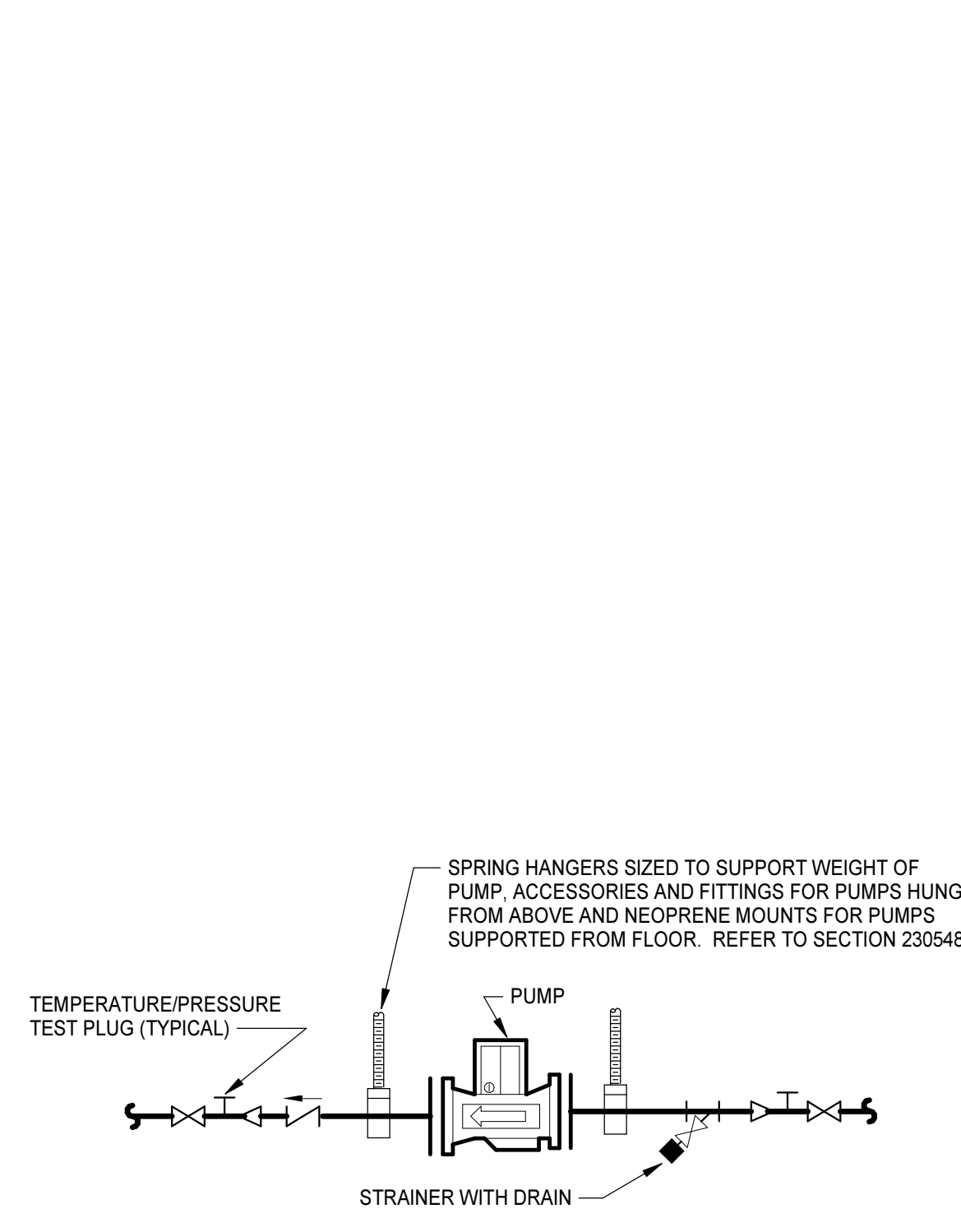
2 AIR SEPARATOR AND EXPANSION/COMPRESSION TANK DETAIL
NO SCALE



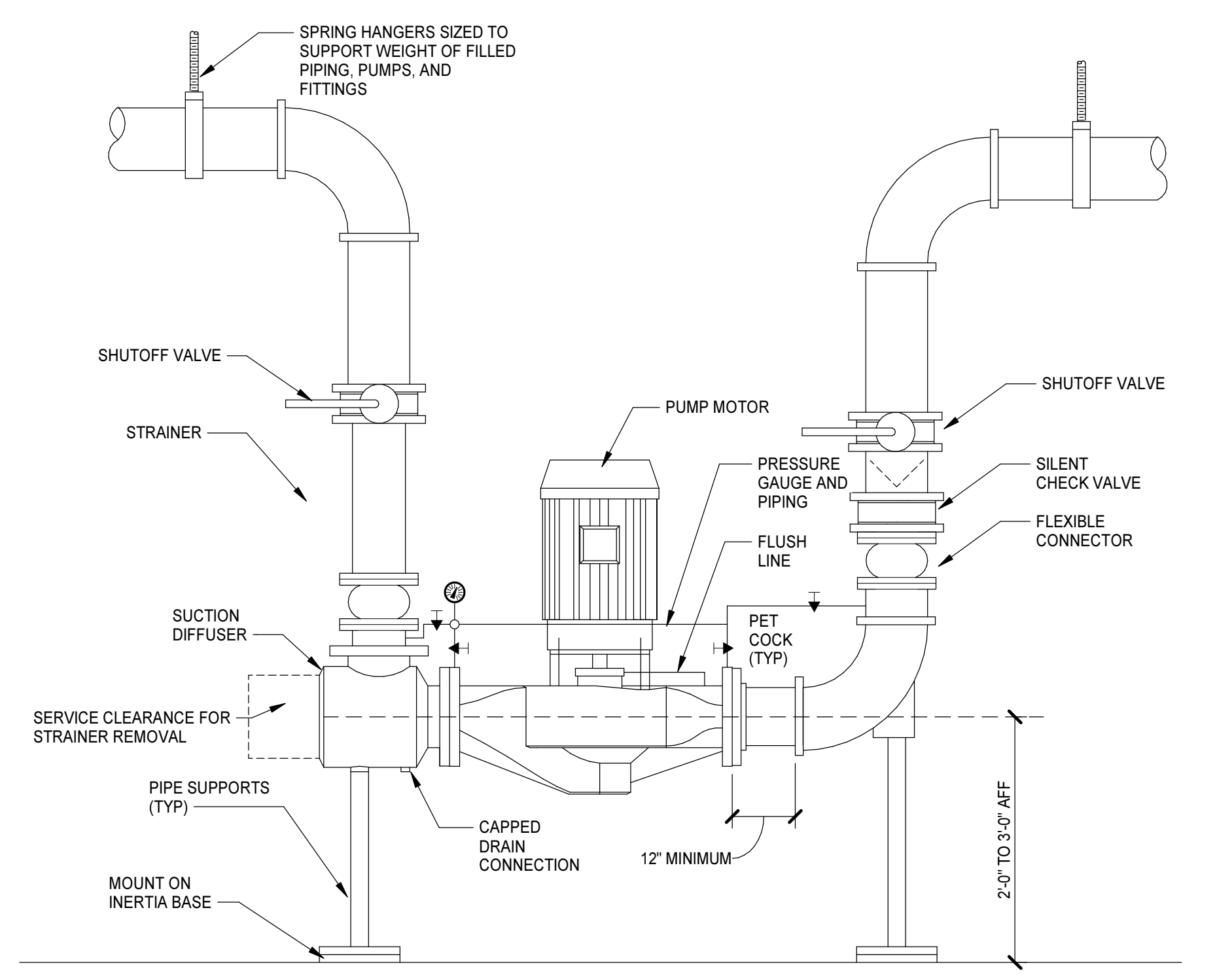
3 HYDRONIC COOLING COIL PIPING DIAGRAM - AHU
NO SCALE



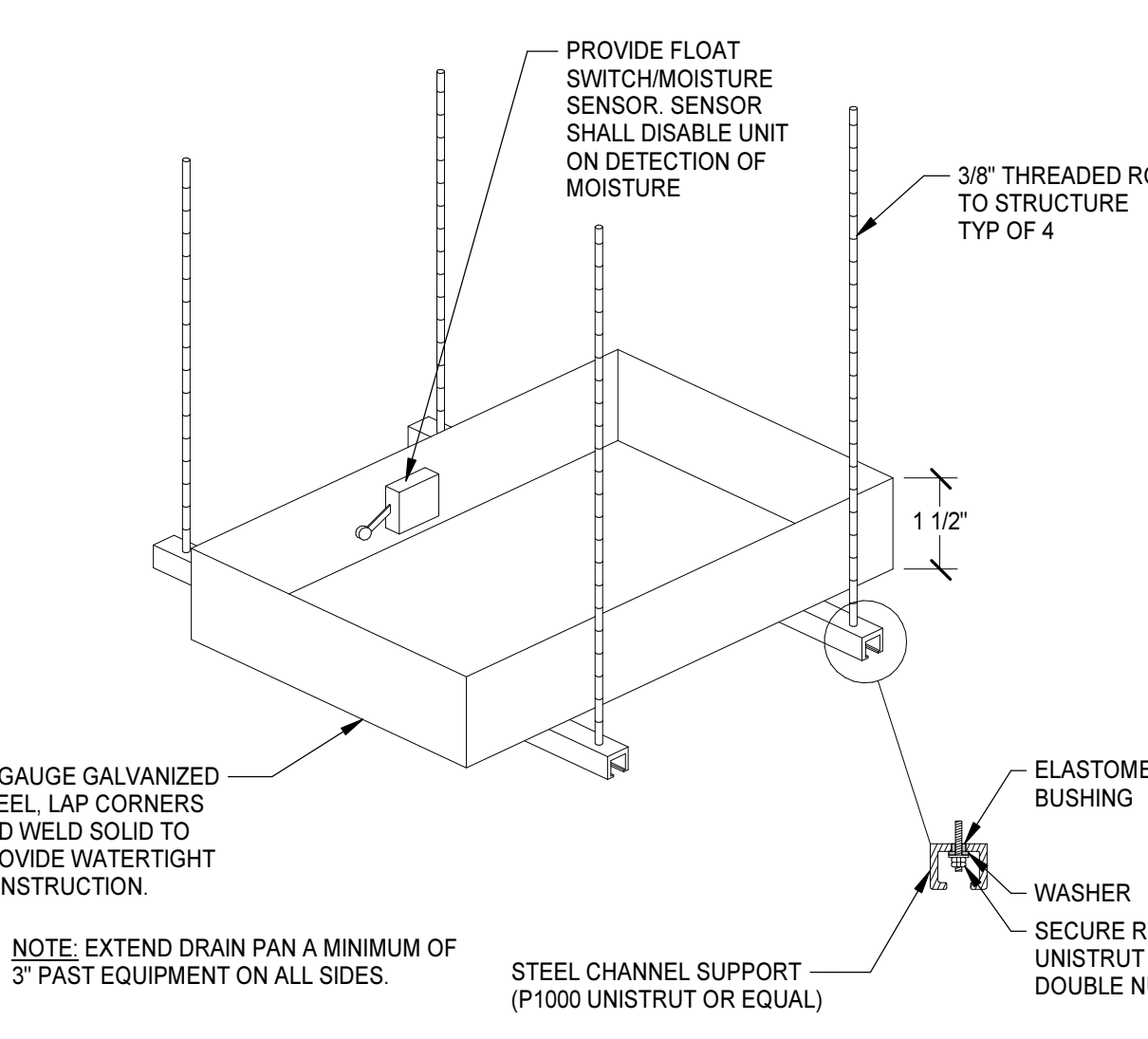
4 HYDRONIC COIL PIPING DIAGRAM - TERMINAL EQUIPMENT
NO SCALE



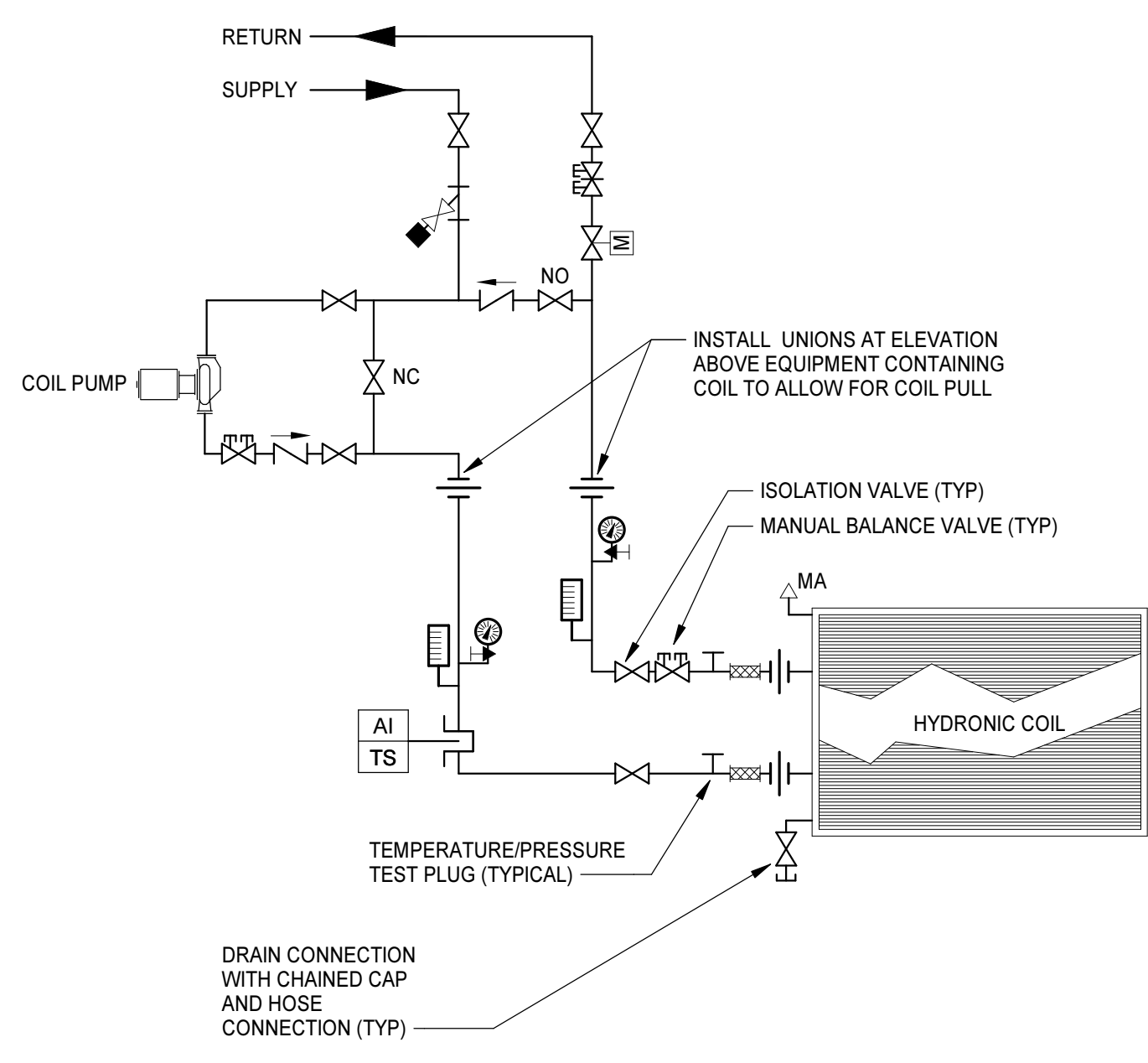
5 IN LINE PUMP INSTALLATION DETAIL
NO SCALE



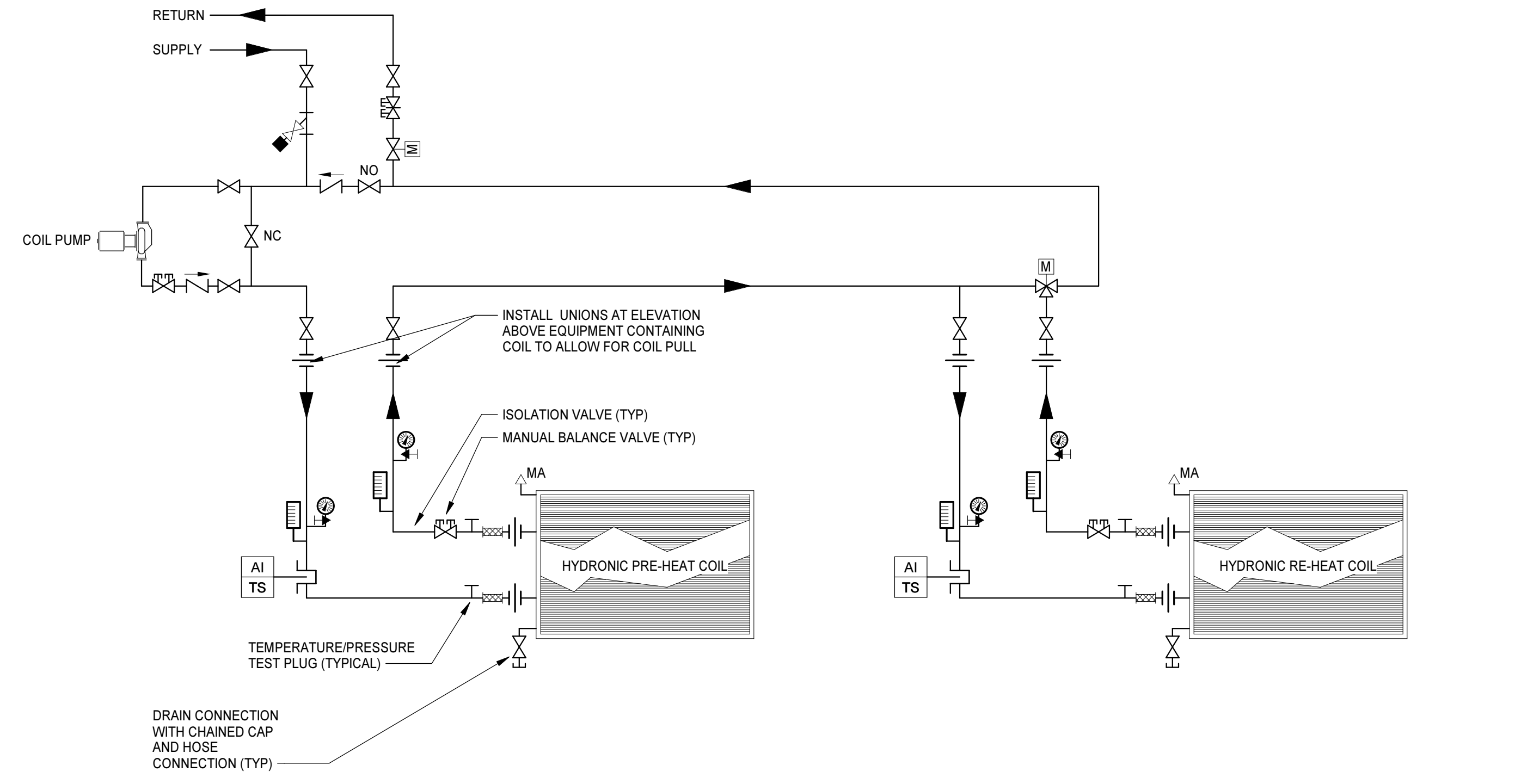
6 VERTICAL INLINE PUMP DETAIL - VARIABLE FLOW
NO SCALE



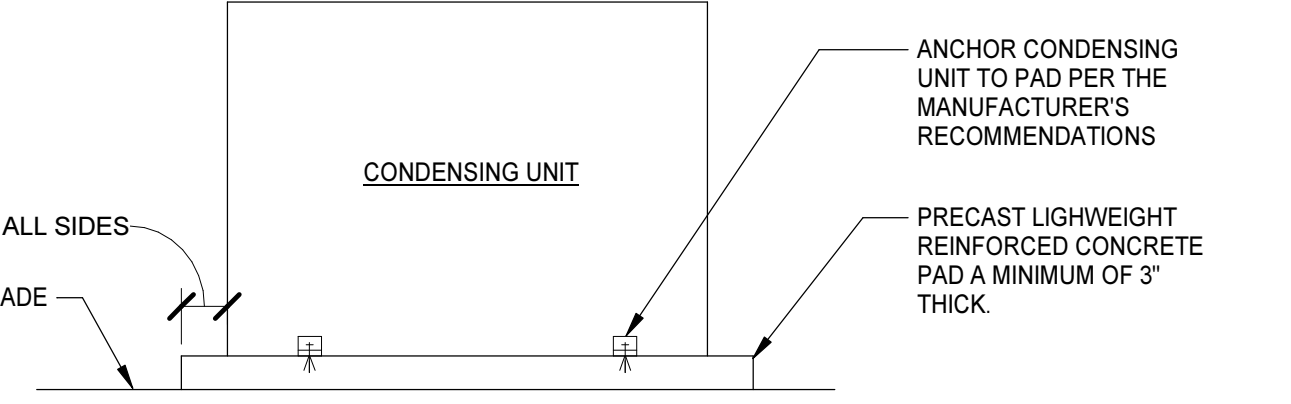
7 AUXILIARY DRAIN PAN MOUNTING DETAIL
NO SCALE



8 PRE-HEAT COIL PIPING DIAGRAM - AHU (AHU-1, 3, & 4)
NO SCALE



9 PRE-HEAT AND RE-HEAT COIL PIPING DIAGRAM - AHU-2
NO SCALE



10 CONDENSING UNIT MOUNTING DETAIL
NO SCALE

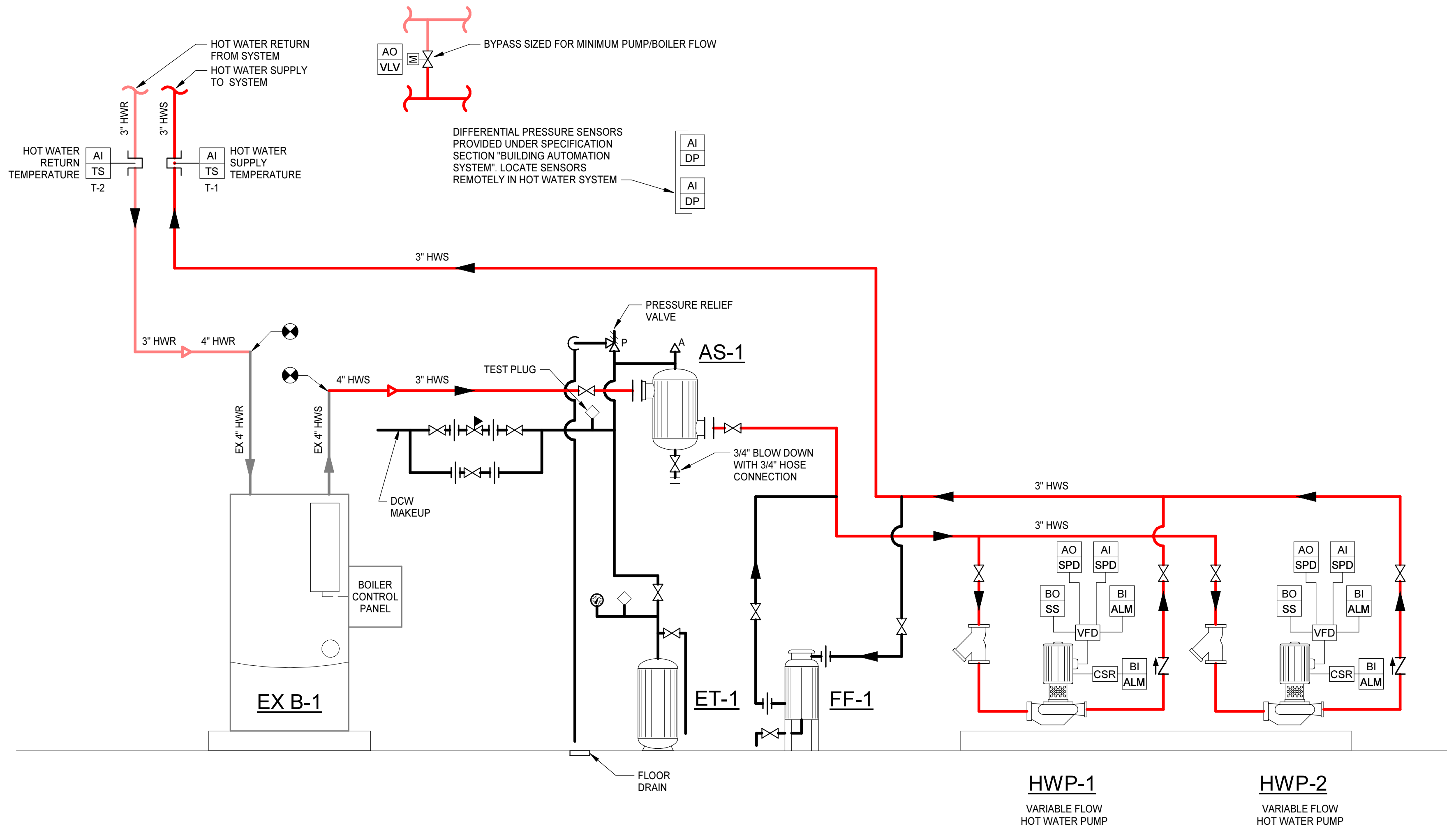
CONTROL PANEL SCHEDULE			
TAG	LOCATION	SERVING	NOTES
AHU-1 UV LIGHT			
AHU-2 UV LIGHT			
AHU-3 UV LIGHT			
AHU-4 UV LIGHT			
BC-0	M100-MECH	BOILER PLANT, CHILLED WATER, MAIN PANEL	-
BC-1 & 2	ATTIC	AHU-1, 2 & TUS	-
BC-3	ATTIC	AHU-3 & TUS	-
BC-4	ATTIC	AHU-4 & TUS	-
NOTES:			
1. TRANSFORMER BANK FOR 24V POWER TO TERMINAL UNITS.			
TU1-04	TU1-09 - TU1-13		1, 2
TU XFMR-2	C102-CORRIDOR		1, 2
TU XFMR-3	ATTIC	TU3-01 - TU3-11	1
TU XFMR-4	ATTIC	TU4-01 - TU4-12	1



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SEQUENCES OF CONTROL: HOT WATER SYSTEM:

- A. General:** Hot water shall be produced by existing campus Hot water plant. Hot water supply and return shall be piped from the existing loop to the mechanical room on the first floor. Hot water is pumped to coils throughout the building and then returned to the campus Hot water loop.
- B. Initial Set points:**
- Hot Water Supply Temperature: 130°F
 - Hot Water Return Temperature: 100°F
 - Hot Water Loop Differential Pressure: 15 psi (to be adjusted by TAB agent)
- C. Hot Water Temperature Reset:**
- Hot water temperature setpoint shall be reset based on the following outside air temperatures.
- | Outside Air Temperature (°F) | Hot Water Temperature (°F) |
|------------------------------|----------------------------|
| <=40 | 130 |
| <=50 | 120 |
| <=60 | 110 |
| >70 | 100 |
- D. Boiler and Hot Water Pumps Operation:**
- Pumps General:** Hot water pumps are variable speed and are in the duty/standby arrangement. The duty pump shall be alternated once a week or another approved method to equalize pump run time. If the duty pump fails, the standby pump shall be energized and alarm issued to the head end.
 - Pumps Control:** Hot water pumps include VFD's to vary speed based on the differential pressure sensor reading. An increase in differential pressure above set point shall reduce the pump speed; a decrease in differential pressure below set point shall increase the pump speed. If the duty pump fails to start (as sensed by current sensing relay), the standby pump shall be enabled and alarm sent to head end indicating which pump failed to start. Pumps shall be disabled if there is no call for heating for 30 minutes, after the boiler has been disabled.
 - Boiler General:** The boiler shall be enabled/disabled by the BAS. The BAS shall supply enable/disable commands and supply setpoint command to each boiler. On a rise in heating water command, indicated by either an increase in total heating water flow, or a drop in heating water supply of 2°F (adjustable) below set point for an adjustable time delay, the boiler firing rate shall be modulated up. On a rise in supply temperature the reverse shall occur. The BAS shall continue to run the duty pump after disabling the boiler and a time delay as prescribed by the boiler manufacturer to remove all heat from the heat exchanger when the boiler is disabled.
 - Two-way Hot Water Bypass Valve:** The bypass valve shall be modulated open to maintain minimum flow through the boilers and pumps as measured by the system level flow meter. Minimum flow shall be 30 GPM or as required by pump or boiler manufacturer.
 - Pump Failure Alarm:** Should either pump fail to start, as sensed by current sensing relay, an alarm shall be sent to the head end identifying the pump and stating that it has failed to start.
 - Boiler Alarm:** Should the boiler fail a high level alarm shall be sent to the head end identifying the boiler, and indicating that it has malfunctioned.
- E. Control Points / Set points**
- Hot water supply temperature, (T-1)
 - Hot water return temperature, (T-2)
 - Hot water pump speed (each pump)
 - Hot water pump on/off status (each pump)
 - Hot water pump alarm (each pump)
 - VFD alarm (each pump)
 - Boiler Status
 - Boiler Alarm
 - Hot water zone differential pressure 1
 - Hot water zone differential pressure 2

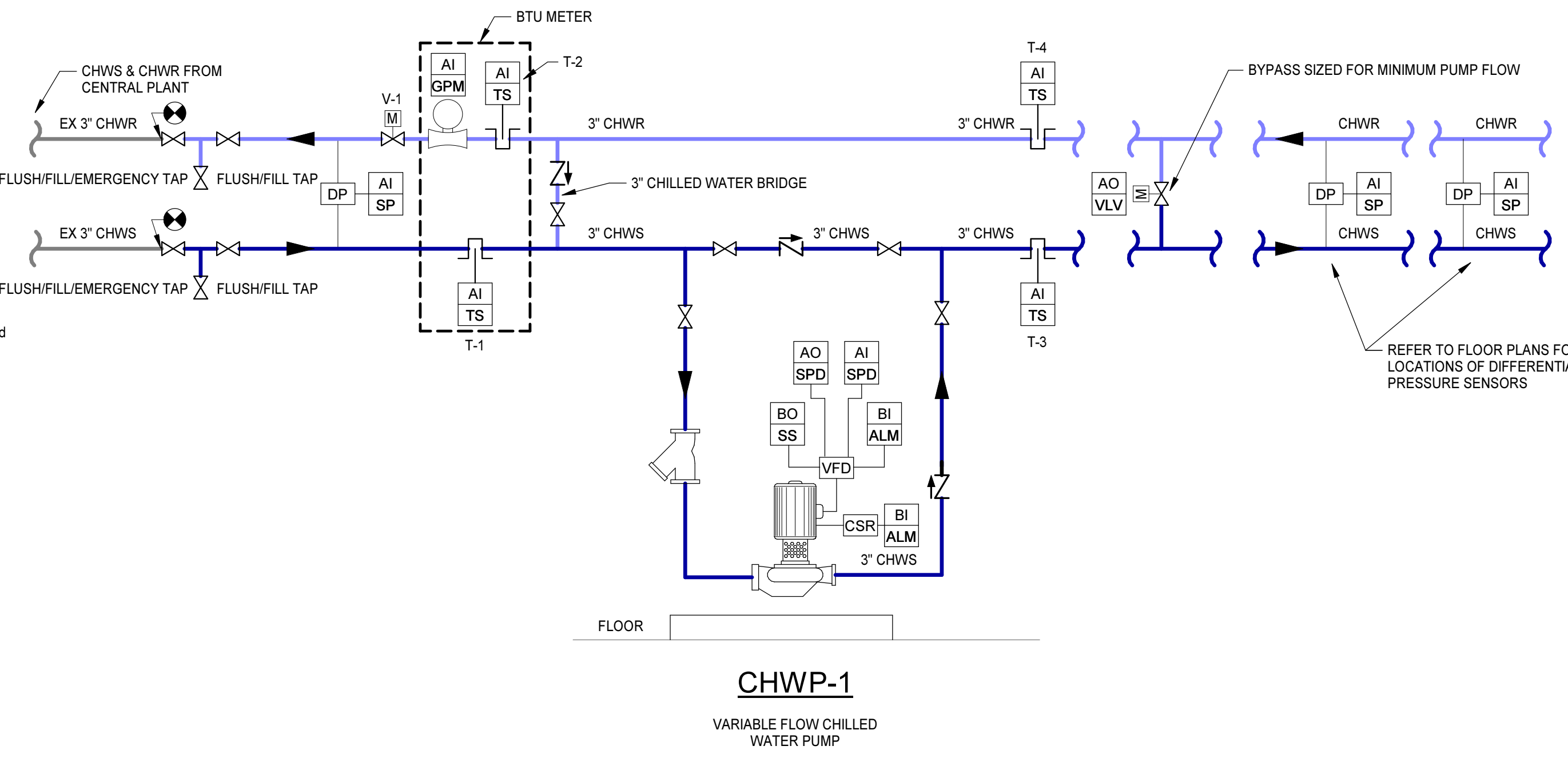


HOT WATER SYSTEM SCHEMATIC

NO SCALE

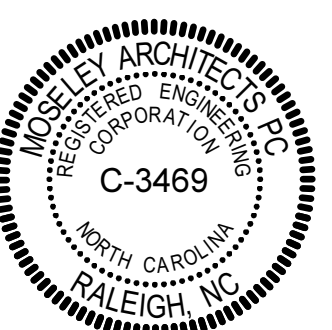
SEQUENCES OF CONTROL: CENTRAL CHILLED WATER:

- A. General:** Chilled water shall be produced by existing campus chilled water plant. Chilled water supply and return shall be piped from the existing loop to the mechanical room on the first floor. Chilled water is pumped to coils throughout the building and then returned to the campus chilled water loop.
- B. Initial Set points:**
- Chilled Water Return Temperature: 60°F
 - Chilled Water Supply Temperature: 42°F
- C. Modes of Operation:**
- Standard Operation:**
 - Chilled water return control valve V-1 shall modulate to maintain the loop leaving water temperature, as measured by T-2, back to the plant at 60°F (adj).
 - Failure and Alarms:**
 - When a valve fails to open or fails to close, or when a pump fails, an alarm shall be generated to the BAS.
 - System Startup:** On a call for cooling by any chilled water coil, the chilled water system shall be started.
 - Pump Failure:**
 - Should the chilled water pump fail, or it be off for any reason, the loop return control valve V-1 shall open fully. Each coil valve shall operate under its normal operation to provide cooling as required.
- D. Chilled Water Pump Operation:**
- On a call for cooling the chilled water pump shall be started. The chilled water pump shall be controlled as follows.
 - Chilled water pump control: The BAS shall start and stop the chilled water pump and modulate its speed as required by system demands. The system shall maintain differential pressure as transmitted by remote pressure differential transmitters. The BAS shall have field programmable independent set points, the value of which shall be the optimum differential pressure as designed for each remote location. Minimum pump run time shall be 15 minutes.
 - Minimum flow control: The system minimum flow shall be maintained by a 2-way bypass valve. If the pump is at minimum speed, and the differential pressure in the loop increases above set point, then the bypass valve shall be modulated open to maintain the system differential pressure sensors at set point.
 - If the pump is at the minimum speed and the bypass valve is open for 15 minutes (adj), then the pump shall be disabled, and the bypass valve closed. The building shall run on plant pressure alone.
 - If the differential pressure drops below setpoint for 15 minutes (adj), then the pump shall restart and shall follow the sequence above.
 - The control system shall include a failure alarm for the chilled water pump. Pump failure alarm shall be a high level alarm to the BAS.
- E. System shutdown:** On a fall in demand so no cooling coil is calling for chilled water, the chilled water system shall be deactivated and the building chilled water isolation valve shall be closed.
- F. Temperatures for building chilled water supply/return and loop supply/return as sensed by temperature sensors shall be indicated on the BAS head end graphics.**
- G. Control Points / Set points**
- Chilled water supply temperature, campus loop (T-1)
 - Chilled water return temperature, campus loop (T-2)
 - Chilled water supply temperature, building (T-3)
 - Chilled water return temperature, building (T-4)
 - Chilled water flow, campus loop
 - Chilled water pump speed
 - Chilled water pump on/off status
 - Chilled water differential pressure, campus loop
 - Chilled water zone differential pressure 1
 - Chilled water zone differential pressure 2



CHILLED WATER SYSTEM SCHEMATIC

NO SCALE



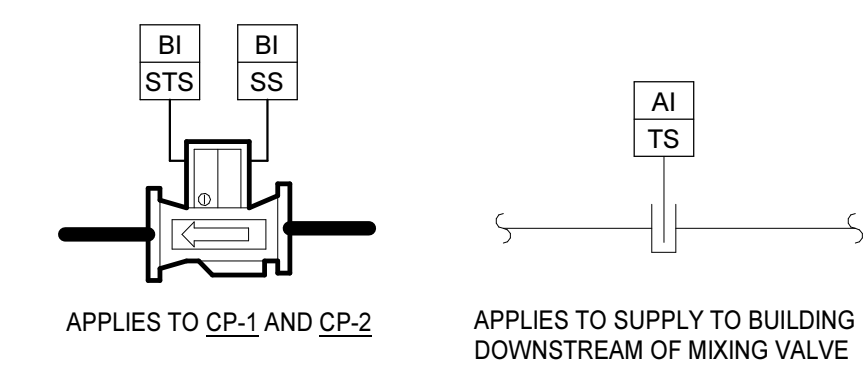
PROJECT NO:	620589
DATE:	AUGUST 15, 2023
	REVISIONS
	DATE
	DESCRIPTION

SEQUENCES OF OPERATION: DOMESTIC CIRCULATING PUMPS

- A. Initial Set Points:
 1. Occupied hours: Pump On
 2. Unoccupied hours: Pump-Off
- C. During occupied and unoccupied hours the BAS shall command the pump to set point. A separate schedule should be adjustable at the head end graphics to vary circulating pump operation hours.

SEQUENCES OF OPERATION: DOMESTIC HOT WATER TEMPERATURE

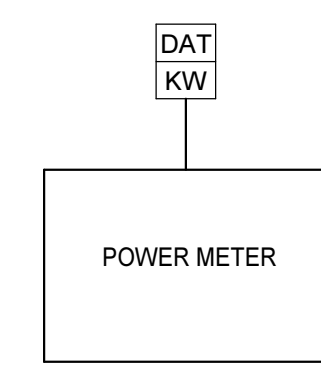
- A. Description: The domestic hot temperature shall be monitored downstream of the thermostatic mixing valve. If the temperature rises above the high limit set point an alarm should be indicated on the head end graphics.
- B. Initial Set Points:
 - a. Alarm: 140°F (Adjustable)



DOMESTIC WATER PUMP AND TEMPERATURE MONITORING
NO SCALE

SEQUENCES OF CONTROL: CIRCUIT POWER MONITORING:

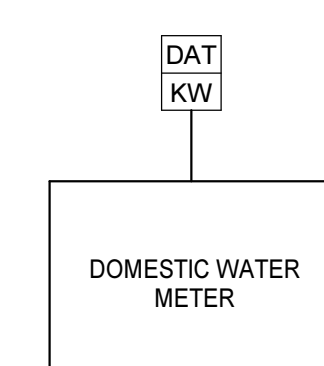
- A. Switchboard Monitoring: The BAS shall monitor main distribution panel KW, KWH and phase continuously as indicated. A communication interface, coordinated with Division 26 shall be used. Refer to section 262416 for additional requirements.
- B. Phase: The BAS shall monitor for phase failure continuously. On a loss of phase the BAS shall turn off all three-phase equipment.
- C. Records: For each of the three load types, records shall be maintained for each function as follows:
 1. Daily:
 - a. The following records shall be maintained for the building:
 1. At 12:00 AM, the BAS shall record the KW demand every 10 minutes. Records shall be maintained for the previous 30 days.
 2. At 12:00 AM, the BAS shall record the KWH used in the previous 24 hours. This record shall be kept for two years.
 3. At 12:00 AM, the BAS shall record the highest KW demand for the previous 24 hours. This record shall include the date and time. This record shall be kept for two years.
 2. Weekly:
 - a. The following records shall be maintained for the building:
 1. On the 1st day of the week at 12:01 AM, the BAS shall record the KWH used that week. This record shall be kept for the life of the building.
 2. On the 1st day of the week at 12:01 AM, the BAS shall record the highest KW demand for the previous week. The record shall include the date and time. This record shall be kept for the life of the building.
 3. Monthly:
 - a. The following records shall be maintained for the building:
 1. On the 1st day of the month at 12:01 AM, the BAS shall record the KWH used that month. This record shall be kept for the life of the building.
 2. On the 1st day of the month at 12:01 AM, the BAS shall record the highest KW demand for the previous month. The record shall include the date and time. This record shall be kept for the life of the building.
 4. Annually:
 - a. The following records shall be maintained for the building:
 1. On January 1st of each year at 12:01 AM, the BAS shall record the highest KW demand for the previous year. The record shall include the date and time. This record shall be kept for the life of the building.
 2. On January 1st of each year at 12:01 AM, the BAS shall record the total KWH used during the previous year. This record shall be kept for the life of the building.



POWER METERING
NO SCALE

SEQUENCES OF CONTROL: DOMESTIC WATER USE MONITORING:

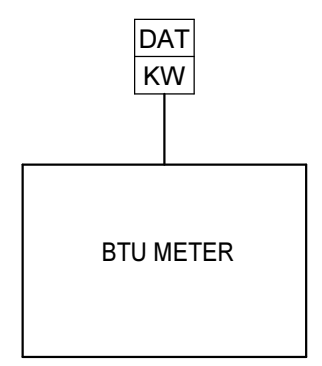
- A. General: The BAS shall monitor domestic water flow in total volume and instantaneous flow rate continuously. A communication interface shall be used. The BAS shall communicate with this device and be capable of receiving and sending data to be viewed at the head end graphics. The communication interface shall have direct Modbus by the meter manufacturer. The BAS shall record the following parameters:
 - Totalized Volume
 - Instantaneous Flowrate
- B. Records: For the chilled water and heating hot water, records shall be maintained for each function as follows or as otherwise directed by the owner:
 1. Daily:
 - a. The following records shall be maintained for the building:
 1. At 12:00 AM, the BAS shall record the gallons used in the previous 24 hours. This record shall be kept for two years.
 2. Weekly:
 - a. The following records shall be maintained for the building:
 1. On the 1st day of the week at 12:01 AM, the BAS shall record the gallons used that week. This record shall be kept for the life of the building.
 3. Monthly:
 - a. The following records shall be maintained for the building:
 1. On the 1st day of the month at 12:01 AM, the BAS shall record the gallons used that month. This record shall be kept for the life of the building.
 4. Annually:
 - a. The following records shall be maintained for the building:
 1. On January 1st of each year at 12:01 AM, the BAS shall record the total gallons used during the previous year. This record shall be kept for the life of the building.



DOMESTIC WATER USE MONITORING
NO SCALE

SEQUENCES OF CONTROL: THERMAL ENERGY MONITORING:

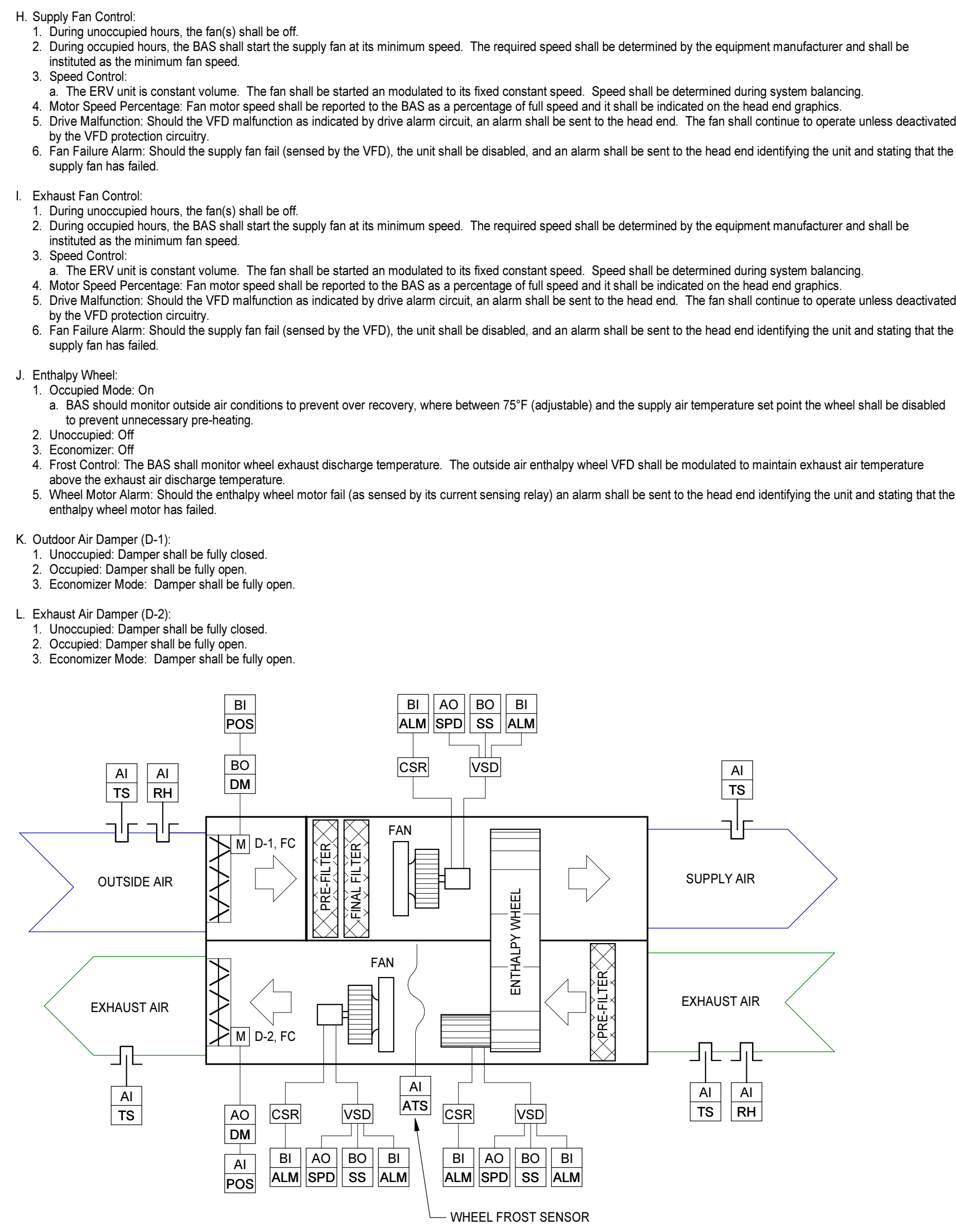
- A. Chilled Water Use Monitoring: The BAS shall monitor chilled water flow in GPM continuously and building supply and return chilled water temperatures in °F to calculate BTUHR and of chilled water continuously. BAS records shall be archived as indicated.
- B. Records: For the chilled water and heating hot water, records shall be maintained for each function as follows or as otherwise directed by the owner:
 1. Daily:
 - a. The following records shall be maintained for the building:
 1. At 12:00 AM, the BAS shall record the KBTUs used in the previous 24 hours. This record shall be kept for two years.
 2. Weekly:
 - a. The following records shall be maintained for the building:
 1. On the 1st day of the week at 12:01 AM, the BAS shall record the KBTUs used that week. This record shall be kept for the life of the building.
 3. Monthly:
 - a. The following records shall be maintained for the building:
 1. On the 1st of the month at 12:01 AM, the BAS shall record the KBTUs used that month. This record shall be kept for the life of the building.
 4. Annually:
 - a. The following records shall be maintained for the building:
 1. On January 1st of each year at 12:01 AM, the BAS shall record the total KBTUs used during the previous year. This record shall be kept for the life of the building.



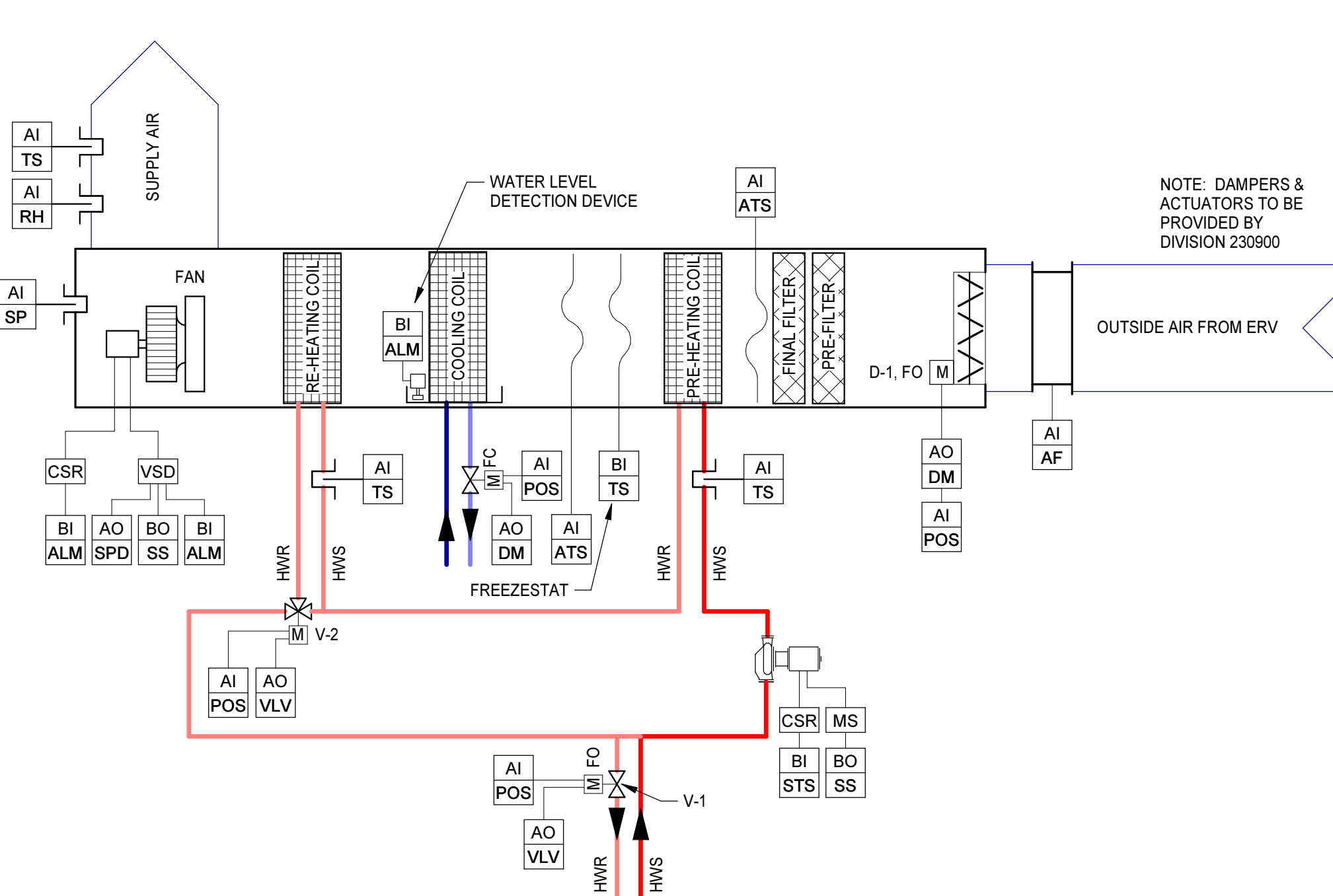
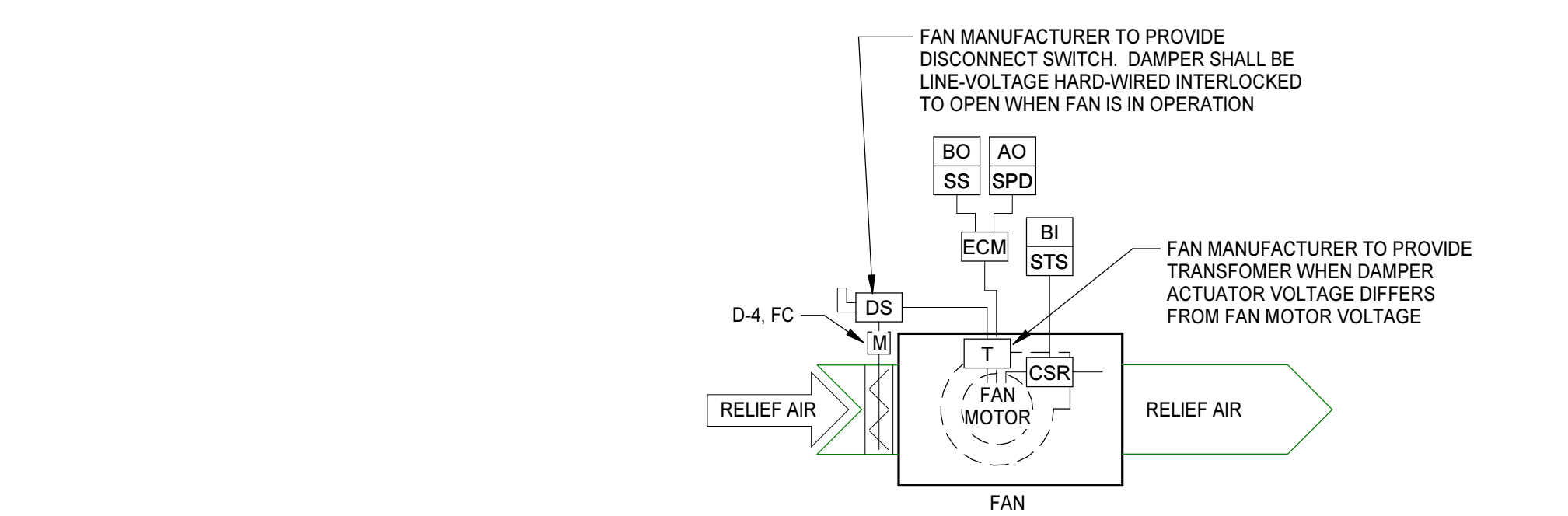
THERMAL ENERGY MONITORING
NO SCALE

SEQUENCES OF CONTROL: VAV AHU SERVING TERMINAL UNITS (AHU-1, AHU-2, & AHU-3)

- A. DESCRIPTION: Commercial variable volume modular indoor unit with 100% economizer capability, variable speed supply fan(s), variable speed relief fan, hot water pre-heating coil located upstream of a chilled water cooling coil serving multiple terminal units.
- B. Graphics: A system graphic similar to the proposed equipment layout shall be developed and shall be readable from the BAS head end.
- C. Sensed points shall be displayed on the graphic and shall be readable from the BAS head end.
- D. Fan operation shall be displayed on the graphic and shall be readable from the BAS head end.
- E. In all modes of operation, commanded and reported position values for all control devices shall be displayed on the graphic and shall be readable from the BAS head end.
- F. Initial Set Points:
 1. Occupied Mode:
 - Supply Fan Start/Stop Position: Start
 - Maximum Supply Fan Motor Speed: As required under section "Testing, Adjusting, and Balancing" to supply design maximum airflow with appropriate (not necessarily all) terminal unit dampers at maximum air flow.
 - Minimum Supply Fan Motor Speed: As required by unit manufacturer
 - Relief Fan Start/Stop Position: Start
 - Relief Fan Motor Speed: As required by unit manufacturer
 - Outdoor Air Damper Position (D-1): Fully Open
 - Maximum Relief Fan Motor Speed: As required to maintain the space pressurization differential cfm at set point. Set point shall be determined by a calculated differential from the measured outdoor air intake cfm and measured relief cfm.
 - Minimum Relief Fan Motor Speed: As required by unit manufacturer
 - Outdoor Air Damper Position (D-1): Fully Open
 - Space Pressurization Differential (CFM): Refer to Schedule on Drawings.
 - Economizer high limit temperature: 65°F
 - Exhaust Air Frost Control Discharge Temperature: 35°F (Adj)
 2. Unoccupied Mode:
 - Supply Fan Start/Stop Position: Stop
 - Relief Fan Start/Stop Position: Stop
 - Outdoor Air Damper Position (D-1): Fully Closed
 - Relief Fan Motor Speed: As required by unit manufacturer
 - Space Pressurization Differential: 0" WG
 - Outside Air (CFM): 0
- G. Start/Stop:
 1. Start: The unit shall be started in stages as follows:
 - Stage 1: D-1 outside air damper and D-2 exhaust air damper shall be positioned fully open. Provide 30 Seconds for this to occur.
 - Stage 2: The supply fan and exhaust fan shall be ramped up to operating speed and then speed shall modulate in accordance with applicable sequences.
 - Stage 3: Operation of the entire unit shall be turned over to applicable sequences.
 2. Stop: The unit shall be stopped in stages as follows:
 - Stage 1: Operation of the entire unit shall be taken from applicable sequences
 - Stage 2: The supply & relief fans shall be ramped down over 15 seconds.
 - Stage 3: The supply and relief fans shall be stopped.
 - Stage 4: D-1 outdoor air damper and D-2 exhaust air damper shall be positioned fully closed. Provide 30 Seconds for this to occur
 - Stage 5: Operation of the entire unit shall be turned over to applicable sequences.
 3. Emergency stop: Perform all stop stages at once.
 4. Occupied Mode Operation: During occupied hours the unit shall be started, the supply and relief fans shall be running, the enthalpy wheel shall operate in accordance with applicable sequences below.
 5. Unoccupied Mode: During unoccupied hours, the unit shall be stopped, the supply and relief fans shall be de-energized, the exhaust air damper (D-2) shall be closed, and the outdoor air damper (D-1) shall be closed.
- H. Supply Fan(s) Control:
 1. During unoccupied hours, the fan(s) shall be off.
 2. During occupied hours, the BAS shall start the supply fan at its minimum speed. The required speed shall be determined by the equipment manufacturer and shall be modulated as the minimum fan speed.
 3. Speed Control:
 - The ERV unit is constant volume. The fan shall be started and modulated to its fixed constant speed. Speed shall be determined during system balancing.
 - Motor Speed Percentage: Fan motor speed shall be reported to the BAS as a percentage of full speed and it shall be indicated on the head end graphics.
 - Drive Malfunction: Should the VFD malfunction as indicated by drive alarm circuit, an alarm shall be sent to the head end. The fan shall continue to operate unless deactivated by the VFD protection circuitry.
 - Fan Failure Alarm: Should the supply fan fail (sensed by the VFD), the unit shall be disabled, and an alarm shall be sent to the head end identifying the unit and stating that the supply fan has failed.
- I. Exhaust Fan Control:
 1. During unoccupied hours, the fan(s) shall be off.
 2. During occupied hours, the BAS shall start the supply fan at its minimum speed. The required speed shall be determined by the equipment manufacturer and shall be modulated as the minimum fan speed.
 3. Speed Control:
 - The ERV unit is constant volume. The fan shall be started and modulated to its fixed constant speed. Speed shall be determined during system balancing.
 - Motor Speed Percentage: Fan motor speed shall be reported to the BAS as a percentage of full speed and it shall be indicated on the head end graphics.
 - Drive Malfunction: Should the VFD malfunction as indicated by drive alarm circuit, an alarm shall be sent to the head end. The fan shall continue to operate unless deactivated by the VFD protection circuitry.
 - Fan Failure Alarm: Should the supply fan fail (sensed by the VFD), the unit shall be disabled, and an alarm shall be sent to the head end identifying the unit and stating that the supply fan has failed.
- J. Enthalpy Wheel:
 1. Occupied Mode: On
 - BAS should monitor outside air conditions to prevent over recovery, where between 75°F (adjustable) and the supply air temperature set point the wheel shall be disabled to prevent unnecessary pre-heating.
 2. Unoccupied: Off
 3. Economizer: Off
 4. Frost Control: The BAS shall monitor wheel exhaust discharge temperature. The outside air enthalpy wheel VFD shall be modulated to maintain exhaust air temperature above the exhaust air discharge temperature.
 5. Wheel Motor Alarm: Should the enthalpy wheel motor fail (as sensed by its current sensing relay) an alarm shall be sent to the head end identifying the unit and stating that the enthalpy wheel motor has failed.
- K. Outdoor Air Damper (D-1):
 1. Unoccupied: Damper shall be fully closed.
 2. Occupied: Damper shall be fully open.
 3. Economizer Mode: Damper shall be fully open.
- L. Exhaust Air Damper (D-2):
 1. Unoccupied: Damper shall be fully closed.
 2. Occupied: Damper shall be fully open.
 3. Economizer Mode: Damper shall be fully open.



ENERGY RECOVERY VENTILATOR (ERV-01)
NO SCALE



- M. Dehumidification Mode: During occupied or unoccupied operation when the space humidity (as sensed by the space sensors) rises above set point, the unit shall be placed in dehumidification mode. The BAS shall reset the leaving air temperature set point to remain in dehumidification mode until the space relative humidity drops to 5% RH below set point for all sensors at which time the BAS shall return to normal leaving air temperature reset control or unoccupied operation. Refer to applicable paragraphs for operation of valves, dampers, and fans.
- N. Economizer Mode: Whenever outside air enthalpy is less than the return air enthalpy and cooling is required, economizer operation shall be enabled. The unit shall modulate outside air and return air dampers to maintain supply air temperature, open the relief air damper, enable the relief fans (if not on already). Refer to damper and fan sequences for additional details.
 1. Economizer operation shall be available twenty-four hours per day and shall override unoccupied damper controls.
 2. Economizer Mode shall be disabled during dehumidification mode.
- O. Outdoor Air Damper from ERV (D-1):
 1. Unoccupied: Damper shall be fully closed.
 2. Occupied: The damper shall modulate to maintain scheduled outdoor air (as sensed by the outdoor air flow measuring station).
 3. Economizer Mode: Damper shall be fully closed.
 4. Air Flow Measuring: Outdoor airflow shall be reported to the BAS in total CFM the intake is bringing in and it shall be indicated on the head end graphics.
- P. Economizer Outdoor Air Damper (D-2):
 1. Unoccupied: Damper shall be fully closed.
 2. Occupied: The damper shall be fully closed.
 3. Economizer Mode: The BAS shall fully open the damper.
- Q. Life Safety: Smoke detectors located in the return air duct, shall upon detection of products of combustion, signal the building fire alarm system, perform an emergency stop on the unit and send an alarm to the head end. This function shall be manually reset from the site and shall be so identified on the head end graphics. Life safety interlocks shall be hard-wired to the fan circuits.
- R. Freeze Protection: Hot water coils shall control leaving air temperature as described above, however when the fans are off or in unoccupied mode, the hot water coils shall use the mixed air temperature sensor upstream of the pre-heat coil with a thermostat to maintain 45°F cabinet temperature at all times. The hot water coil pumps shall be enabled any time the outside air temperature is below 35°F. This operation should be available during all modes of operation to prevent any coil from freezing, regardless if the fans are running or not. If the temperature continues to fall below 38°F (as sensed by a freeze-stat with an averaging bulb located downstream of heating coils) the fans shall stop and the outdoor air damper shall be closed and return air dampers shall open. A high level alarm should be issued to the head end BAS graphics. Hot water coil pump shall spring open upon loss of power. Hot water coil pump shall be enabled. Hardwire interlock for freeze protection for supply fans, outdoor air damper and hot water valve actuators.
- S. System Safety: When the supply fan(s) is stopped or airflow ceases for any reason other than a controlled stop (as sensed by a current sensing relay) the BAS shall perform an emergency stop.
- T. Mixed Air Temperature: The BAS shall monitor mixed air temperature downstream of the final filters and shall display the temperature on the head end.
- U. Supply Air Temperature: The BAS shall monitor supply air temperature downstream of the supply fan and shall display the temperature on the head end.
- V. Return Air Temperature: The BAS shall monitor return air temperature downstream of the return air connections and shall display the temperature on the head end.
- W. Return Air Relative Humidity: The BAS shall monitor return air relative humidity downstream of the return air connections and shall display the temperature on the head end.
- X. Heating Coil Discharge Temperature: The BAS shall monitor the air temperature downstream of the heating coil and shall display the temperature on the head end.
- Y. The BAS shall monitor the drain pan float water level detection device in the cooling coils condensate drain pan. If the drain pan is not draining properly and raises to activate the water level detection device, cooling shall be disabled and an alarm issued to the head end.

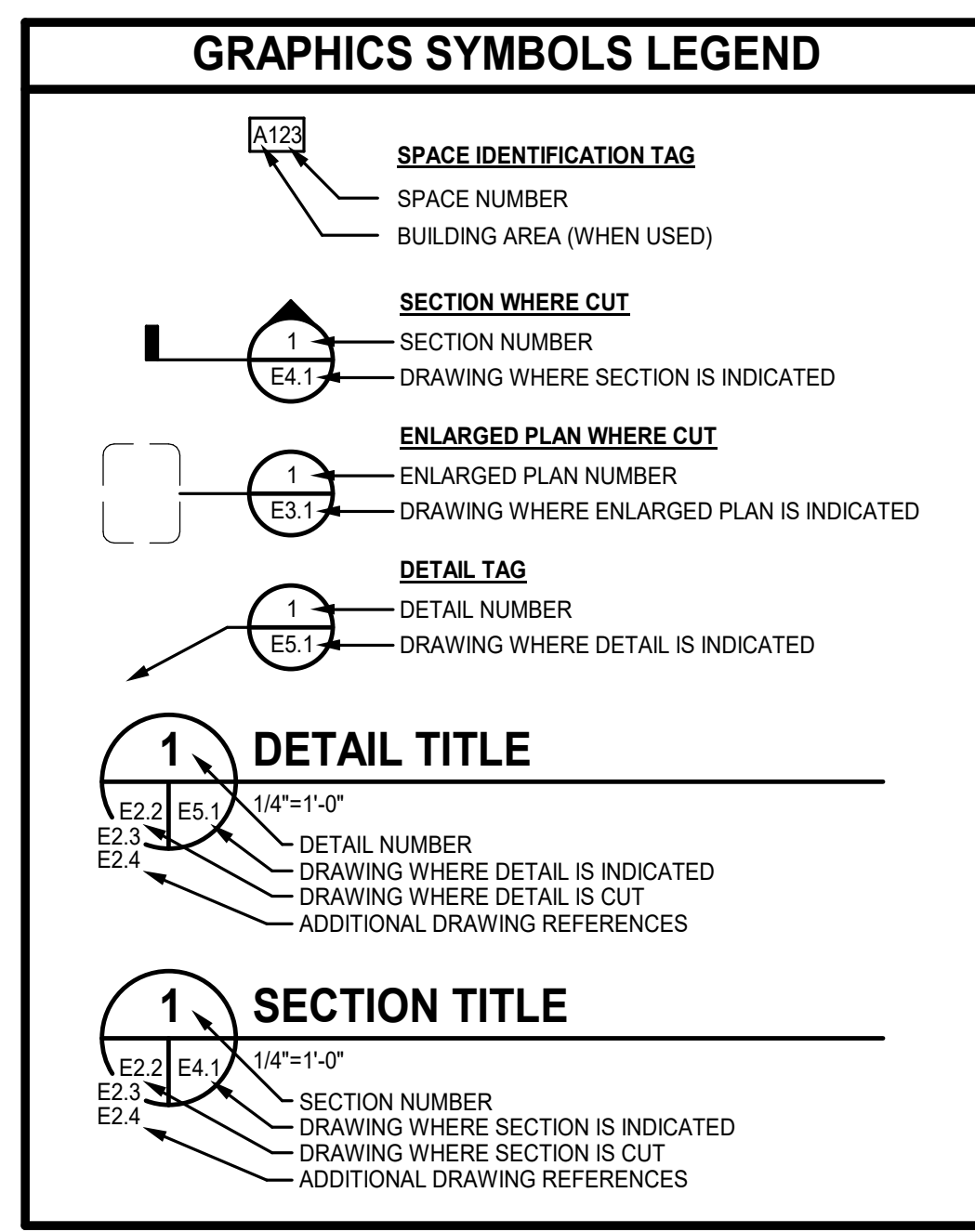
DEDICATED OUTDOOR AIR HANDLING UNIT (AHU-02)
NO SCALE

LIFE SAFETY SYMBOL LEGEND				
DESIGNATOR MATRIX				
	WALL	BARRIER	PARTITION	RATED BEARING OR NON-BEARING WALL
2 HR FIRE	XXXX	XXXX	XXXX	XXXX
1 HR FIRE	XXXX	XXXX	XXXX	XXXX

NOTES:
1. REFER TO LIFE SAFETY DRAWINGS FOR ALL WALL RATING DETAILS.

FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, MOUNT AT 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE WITH DEVICE GUARD, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
	FIRE ALARM MANUAL PULL STATION, MOUNT AT +3'-10" AFF.
	FIRE ALARM KEY OPERATED MANUAL PULL STATION, MOUNT AT +3'-10" AFF.
	FIRE ALARM DUCT SMOKE DETECTOR, FURNISH AND CONNECT UNDER DIVISION 28. INSTALL UNDER DIVISION 23. VERIFY LOCATION WITH DIVISION 23 PRIOR TO ROUGH-IN. PROVIDE ACCESSIBLE KEY OPERATED REMOTE TEST SWITCH FOR EACH DETECTOR.
	SMOKE DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
	HEAT DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
	FIRE ALARM TAMPERSWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
	FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
	POST INDICATOR VALVE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
	FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
	FIRE ALARM REMOTE INDICATOR, CEILING MOUNT.
	FIRE ALARM MONITOR MODULE. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS.
	FIRE ALARM CONTROL MODULE. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS.
	FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-0" AFF.
	FIRE ALARM MAGNETIC DOOR HOLDER, WALL MOUNT DEVICE AT 6" BELOW TOP OF DOOR. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE. COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 120-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
	FIRE ALARM DOOR HOLDER/CLOSER HARDWARE UNDER DIVISION 08, MONITOR AND CONTROL INTERFACE WITH FIRE ALARM UNDER DIVISION 28.
	FIRE ALARM POWER CONNECTION TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE WITH DIVISION 23. REFER TO TYPICAL FIRE/SMOKE DAMPER DIAGRAM.

ONE LINE DIAGRAM LEGEND	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	FUSED SWITCH
	TRANSFORMER
	TRANSFER SWITCH
	FEEDER DESIGNATION
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER



AVERAGE MAINTAINED ILLUMINATION LEVELS	
TASK	FOOTCANDELS
CLASSROOMS	55
MEDIA CENTER	55
OFFICES	50
BUSINESS	55
STUDIO	60
SCIENCE LAB	70
ELECTRICAL ROOMS	30
MECHANICAL ROOMS	30
COMPUTER LABS	50
GYM	50
LOCKER ROOMS	20
TOILETS	20
LOBBIES/CORRIDORS	15
KITCHEN	70
DINING	40
AUDITORIUM	10-50
STOREROOMS	20
WHITEBOARDS	30

LIGHT FIXTURE SCHEDULE										
TYPE	DESCRIPTION	MANUFACTURER	FIXTURE			LAMP		MOUNTING	OPTIONS	COMMENTS
			SERIES NO.	VOLTAGE	WATTAGE	LUMENS	TYPE			
A1	TROFFER	LCA24	LCA24	277 V	33	7079 lm	LED	4000 K	RECESSED	EMERGENCY BATTERY PACK WHERE INDICATED
A2	TROFFER	LCA24	LCA24	277 V	43	5026 lm	LED	4000 K	RECESSED	EMERGENCY BATTERY PACK WHERE INDICATED
C	DOWNLIGHT	ALPHABET	NUARD	277 V	32	3000 lm	LED	4000 K	RECESSED	EMERGENCY BATTERY PACK WHERE INDICATED
D	WALL WASH DOWNLIGHT	ALPHABET	NUARA	277 V	18	1500 lm	LED	4000 K	RECESSED	
L	STRIP LIGHT	LCL	CURRENT LIGHTING	277 V	42	5329 lm	LED	4000 K	PENDANT	EMERGENCY BATTERY PACK WHERE INDICATED
P	DECORATIVE PENDANT			0 V	0	1485 lm		3200 K		
V1	VANITY LIGHT	ASL LIGHTING	VB/J	277 V	23	2668 lm	LED	4000 K	WALL MOUNT	
X1	EXIT LIGHT	CURRENT LIGHTING	CE	277 V	1		LED	UNIVERSAL		90 MIN BATTERY
X2	EXIT LIGHT	CURRENT LIGHTING	CE	277 V	1		LED	UNIVERSAL		90 MIN BATTERY

POWER LEGEND	
SYMBOL	DESCRIPTION
	APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED.
	APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6" AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	SINGLE RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
	SINGLE RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
	SPD DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
	POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	POWER/COMMUNICATIONS RECESSED FLOOR BOX. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICES. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	POWER/COMMUNICATIONS POKE THRU FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	POWER/COMMUNICATIONS POKE THRU FLOOR BOX. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICES. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLOOR BOX. COORDINATE WITH SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLUSH WALL BOX MOUNTED 4" AFF. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	POWER/COMMUNICATIONS POWER POLE, FURNISHED WITH (NIC) SYSTEM FURNITURE. PROVIDE J-BOX MTD TO STRUCTURE ABOVE CLG. AND FLEXIBLE CONDUIT CONNECTION TO J-BOX MTD TO TOP OF POLE AND CONNECTED TO PITAL(S) FURNISHED WITH POLE. POLE LOCATION IS APPROXIMATE. COORDINATE WITH SYSTEM FURNITURE PROVIDER.
	LINE VOLTAGE THERMOSTAT, DIVISION 23 FURNISH, DIVISION 28 INSTALL. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY.
	PUSHBUTTON CONTROLLER.
	PUSHBUTTON.
	CORD REEL OUTLET, CEILING MOUNT.
	(NON-)METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNT AT +1'-6" AFF, UNO.
	JUNCTION BOX, CONCEALED ABOVE CEILING, UNO.
	JUNCTION BOX, UNDER FLOOR MOUNT.
	ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED.
	MUSHROOM SWITCH, HEAVY DUTY WITH LEGEND PLATE. MOUNT WITH HANDLE AT +3'-10" AFF, UNO.
	MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT. FLUSH MOUNT WITH HANDLE AT +4'-6" AFF, UNO.
	DISCONNECT SWITCH, FUSIBLE OR NON-FUSIBLE AS INDICATED. MOUNT WITH HANDLE AT +4'-6" AFF, UNO.
	MAGNETIC MOTOR STARTER, WITH OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS. MOUNT WITH HANDLE AT +4'-6" AFF, UNO.
	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH. WITH OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS. MOUNT WITH HANDLE AT +4'-6" AFF, UNO.
	EQUIPMENT POWER CONNECTION.
	MOTOR CONNECTION.
	CONNECTION TO DIV 23 MOTORIZED DAMPER, VERIFY LOCATION.
	POWER FOR ELECTRIC DOOR LOCK CONNECTION.
	POWER FOR ELECTRIC DOOR STRIKE CONNECTION.
	EMERGENCY GENERATOR.
	BRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW SLAB.
	STRAIGHT LINEWORK FOR CIRCUITRY INDICATES ON EMERGENCY POWER CIRCUIT. INDICATED FOR CLARITY ONLY. ACTUAL HOMERUN DESIGNATION OVERRIDES THIS SYMBOLOLOGY.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED.
	PANELBOARD.
	TRANSFORMER, PROVIDE CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE.
	RELAY, NO OR NC AS INDICATED.
	RELAY, NORMALLY OPEN.
	RELAY, NORMALLY CLOSED.
	FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1.

COMMUNICATIONS LEGEND	
SYMBOL	DESCRIPTION
	TELECOMMUNICATIONS OUTLET, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. MOUNT AT +3'-10" AFF.
	TELECOMMUNICATIONS OUTLET, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. MOUNT AT +1'-6" AFF.
	RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING.
	INTERCOM STATION WITH PUSHBUTTON, MOUNT AT +4'-6" AFF.
	INTERCOM STATION WITH PUSHBUTTON, MOUNT AT +4'-6" AFF. SUBSCRIPT 'E' INDICATES EMERGENCY FUNCTIONS.
	CATV OUTLET, MOUNT AT +1'-6" [7'-6" AFF.
	WALL CLOCK, MOUNT AT +7'-6" AFF. SUBSCRIPT 'D' INDICATES DOUBLE FACE CLOCK.
	WALL CLOCK, CEILING MOUNT. SUBSCRIPT 'D' INDICATES DOUBLE FACE CLOCK. ARROWS INDICATE FACE DIRECTION.
	MICROPHONE OUTLET, WALL MOUNT AT +1'-6" AFF, FLUSH FLOOR MOUNT. SUBSCRIPT NUMBER INDICATES NUMBER OF JACKS TO PROVIDE IN OUTLET.
	SOUND SYSTEM SPEAKER, RECESS WALL MOUNT AT +7'-6" AFF. 'WG' WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD.
	SOUND SYSTEM SPEAKER, RECESS CEILING MOUNT. 'WG' WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD.
	POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO TYPICAL COMMUNICATION OUTLET DETAIL. FOR BOX AND CONDUIT REQUIREMENTS.
	POWER/COMMUNICATIONS POKE THRU FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS, (1) EACH AT OPPOSITE SIDES, TO STUB-UP AT NEAREST COMMUNICATION CROSS-CONNECT. UNO. REFER TO TYPICAL COMMUNICATION OUTLET DETAIL.
	SYSTEM FURNITURE COMMUNICATIONS CONNECTIONS VIA FLOOR BOX. PROVIDE 1.25" CONDUIT BELOW SLAB TO STUB-UP AT NEAREST COMMUNICATION BACK BOARD. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA FLUSH WALL BOX MOUNTED +4" AFF. PROVIDE 1.25" CONDUIT WITH BUSHINGS FROM BOX TO ABOVE CEILING. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA POWER POLE FURNISHED WITH SYSTEM FURNITURE. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	WIRELESS ACCESS POINT
	TELECOMMUNICATIONS EQUIPMENT RACK.
	TELECOMMUNICATIONS GROUND BUS BAR, MOUNT AT +1'-6" AFF.
	TELECOMMUNICATIONS MAIN GROUND BUS BAR, MOUNT AT +1'-6" AFF.
	CABLE TRAY, MOUNT AT +6" ABOVE FINISHED CEILING.

LIGHTING LEGEND	
SYMBOL	DESCRIPTION
	LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS, MOUNT AT +3'-10" AFF. SUBSCRIPT/SUPERSUBSCRIPT LETTERS, NUMBERS, AND SYMBOLS INDICATES SWITCH TYPE AS FOLLOWS:
	3 INDICATES 3-WAY LIGHT SWITCH
	4 INDICATES 4-WAY LIGHT SWITCH
	D INDICATES DIMMER SWITCH
	P INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON
	K INDICATES KEY OPERATED LIGHT SWITCH
	OS INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR
	OS ₂ INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR
	OS ₂ INDICATES DUAL RELAY INTEGRAL OCCUPANCY SENSOR, WIRED FOR MULTI-LEVEL SWITCHING
	LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION
	INDICATES SWITCHES WIRED FOR INBOARD/OUTBOARD SWITCHING.
	OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.
	DIRECTIONAL LIGHTING CONTROL, OCCUPANCY DETECTOR, WALL MOUNT AT 6" BELOW FINISHED CEILING.
	PHOTOELECTRIC CELL FOR LIGHTING CONTROL, WALL MOUNT AT +10'-0" AFF. AIM NORTH.
	LIGHT FIXTURE, CEILING MOUNT.
	LIGHT FIXTURE ON EMERGENCY POWER, CEILING MOUNT.
	LIGHTING FIXTURE.
	LIGHTING FIXTURE ON EMERGENCY POWER.
	WALL WASHER LIGHTING FIXTURE.
	LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
	EMERGENCY EGRESS LIGHTING FIXTURE, WITH BATTERY PACK, WALL MOUNT AT +6'-0" AFF.
	EXIT SIGN, CEILING MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	EXIT SIGN, WALL MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	TRACK LIGHTS.
	LIGHT FIXTURE, POLE MOUNT.
	SPORTS LIGHTING POLE.

DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
	REMOVE DEVICES, EQUIPMENT, IN ACCORDANCE WITH THE GENERAL DEMOLITION NOTES.
	DEVICES ARE EXISTING TO REMAIN.
	WITHIN HATCHED AREAS, DISCONNECT AND REMOVE ALL ELECTRICAL MATERIALS INCLUDING BUT NOT LIMITED TO LIGHTS, DEVICES, EQUIPMENT, SPEAKERS, FIRE ALARM, COMMUNICATIONS, AND CIRCUITRY.

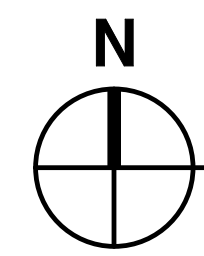
GENERAL DEMOLITION NOTES	
A.	PROVIDE ALL ELECTRICAL DEMOLITION WORK REQUIRED TO INSTALL THE WORK INDICATED. REMOVE, REROUTE, AND RECONNECT ALL BRANCH CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH THE WORK.
B.	REMOVE ALL EXISTING CONDUITS THAT WILL NOT BE REUSED AND WHERE THEY WILL BE EXPOSED AFTER COMPLETION, ABANDON ALL OTHERS IN THE WALLS ONLY. DISCONNECT ALL WIRING INDICATED AND/OR REQUIRED TO BE REMOVED FROM ALL POWER SOURCES. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND PROVIDE BLANK COVER PLATES FOR BOXES NOT UTILIZED FOR THE WORK.
C.	MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY THE WORK.
D.	BEFORE DEMOLITION, VERIFY WITH THE OWNER ALL EQUIPMENT TO BE SALVAGED TO OWNER AND NOT REMOVED FROM THE SITE. FOR ALL REMAINING EQUIPMENT INDICATED FOR REMOVAL (AND NOT RELOCATED), REMOVE AND DISPOSE IN A LEGAL MANNER.
E.	EXERCISE CARE IN REMOVING DEMOLITION ITEMS. REPAIR OR REPLACE ALL DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN.
F.	DRAWINGS ARE BASED UPON EXISTING PLANS AND FIELD INVESTIGATION WITHOUT DEMOLITION. VISIT THE EXISTING BUILDING AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXAMINE ALL DRAWINGS TO AVOID CONFLICTS.
G.	WHERE DEMOLITION OF TELECOMMUNICATIONS DEVICES OCCUR, REMOVE CABLING NOT INDICATED TO REMAIN BACK TO POINT OF ORIGIN.
H.	DEMOLITION FLOOR PLANS ARE PROVIDED FOR REFERENCE ONLY TO AID IN DEFINING THE SCOPE OF DEMOLITION WORK.

GENERAL NOTES	
A.	THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
B.	FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.
C.	FIELD VERIFY EXACT FEEDER LOCATIONS FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
D.	EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION.
E.	LOCATED ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS OTHERWISE INDICATED.
F.	PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT.
G.	PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND WRITTEN SCHEDULES ARE NOT ACCEPTABLE.
H.	ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC. COORDINATE ROUTING IN ALL SPACES WITH OTHER TRADES.
I.	ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE. UNO, THE CONTRACTOR SHALL FIELD VERIFY ROOM LAYOUT AND ADJUST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY PANELBOARD ENCLOSURES.
J.	WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS, FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER.
K.	ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WR" - WEATHER RESISTANT.
L.	WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED COLOR CODED NEUTRAL CONDUCTORS FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED NEUTRALS EVEN THOUGH PERMITTED BY NEC.
M.	REMOVE A 2" WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE. IN FRONT OF ALL ELECTRICAL PANELS IN ELECTRICAL ROOMS, REFER TO PLANS FOR ELECTRICAL WORKING SPACE DETAILS. STENCIL "NO STORAGE IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.
N.	ALL ELECTRICAL INSPECTIONS WITH THE STATE CONSTRUCTION OFFICE SHALL BE SCHEDULED MONDAY THRU FRIDAY UNLESS SPECIFICALLY EXEMPTED AND APPROVED BY THE STATE CONSTRUCTION OFFICE.

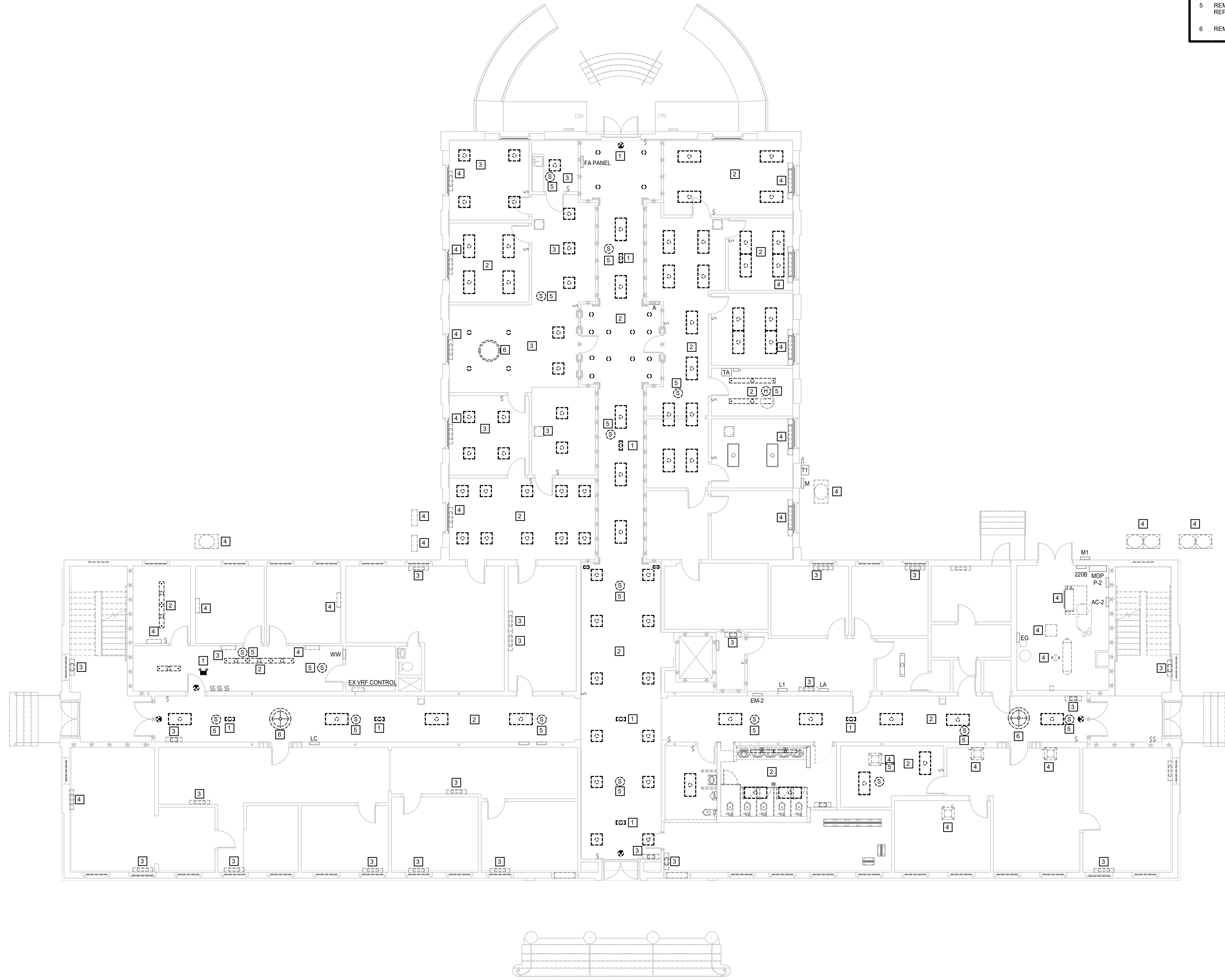
ABBREVIATIONS	
1P	SINGLE PHASE
3P	THREE PHASE
3R	WEATHERPROOF (NEMA 3R)
A	AMPS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION (CABLE)
CB	CIRCUIT BREAKER
CBL	CABLE
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CLR	CLEAR
CO	COMPANY
COMB	COMBINATION
COMM	COMMUNICATIONS
CU	COPPER
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
EBH	ELECTRIC BASEBOARD HEATER
EC	EMPTY CONDUIT
ECS	EMERGENCY COMMUNICATIONS STATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EW	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FACP	FIRE ALARM GRAPHIC PANEL
FAXP	FIRE ALARM EXTENDER PANEL
FSCSP	FIRE FIGHTERS SMOKE CONTROL PANEL
FLA	FULL LOAD AMPS
FPFR	FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS
FND	FUSE PER NAMEPLATE DATA
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FIRST FLOOR PLAN - DEMO
1/8" = 1'-0"



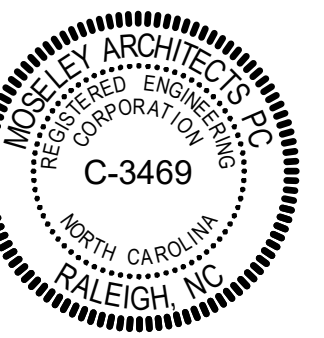
KEYNOTES

APPLIES TO THIS DRAWING

- 1 DISCONNECT & REMOVE EXISTING EXIT OR EMERGENCY LIGHT. MAINTAIN BRANCH CIRCUIT FOR REUSE.
- 2 DISCONNECT & REMOVE EXISTING LIGHT FIXTURE. MAINTAIN BRANCH CIRCUIT/SWITCHING FOR REUSE.
- 3 DISCONNECT 208V 1PH 20A MECHANICAL EQUIPMENT BRANCH CIRCUIT FOR EQUIPMENT REPLACEMENT BY DIV 23. MAINTAIN FOR REUSE.
- 4 DISCONNECT & REMOVE MECHANICAL EQUIPMENT BRANCH CIRCUIT IN ITS ENTIRETY.
- 5 REMOVE & REINSTALL SMOKE DETECTOR TO ACCOMMODATE CEILING REPLACEMENT.
- 6 REMOVE & REINSTALL LIGHT FIXTURE TO ACCOMMODATE CEILING REPLACEMENT.

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UNIVERSITY OF NORTH CAROLINA WILMINGTON
SCO # 22-24639-01D
601 College Rd, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	AUGUST 15, 2023
REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR PLAN -
DEMOLITION

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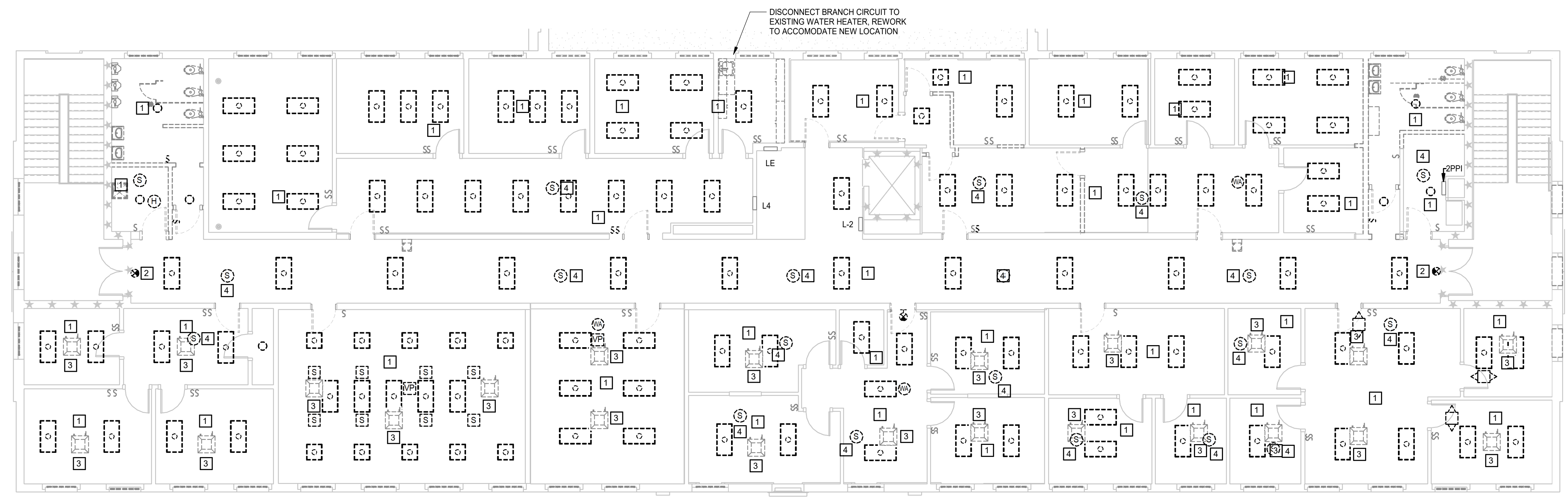
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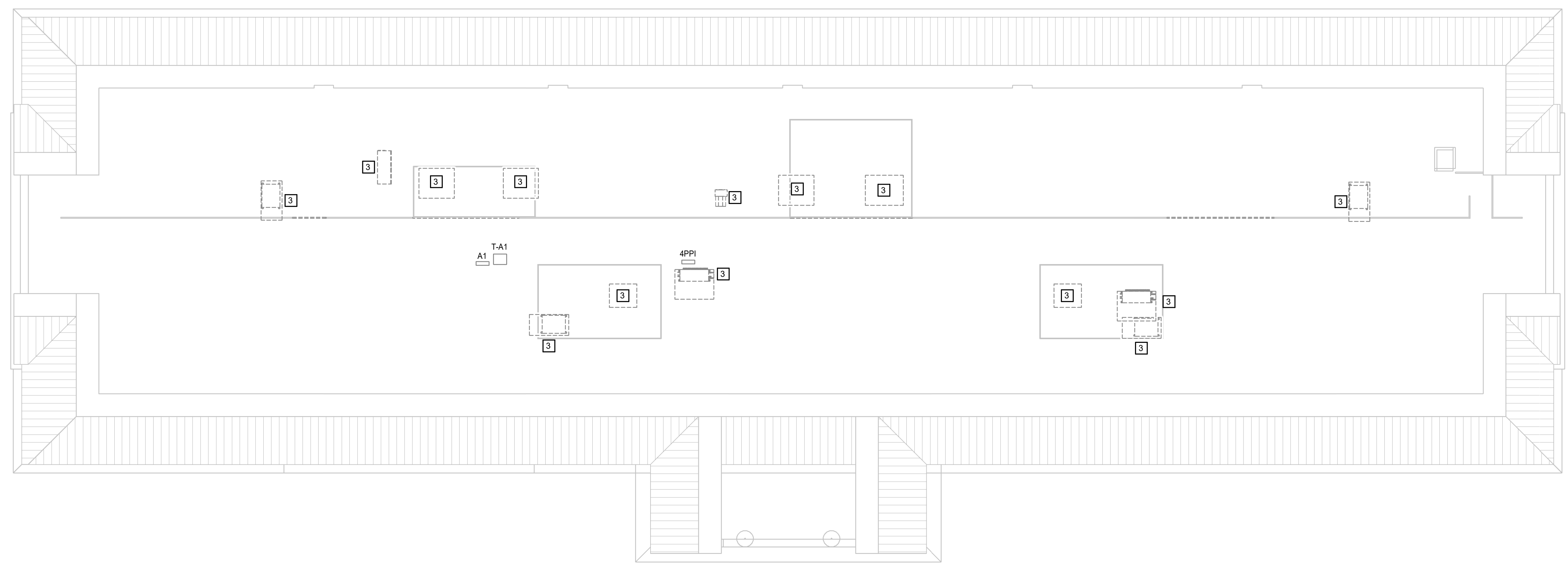
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KEYNOTES	
APPLIES TO THIS DRAWING	
1	DISCONNECT & REMOVE EXISTING LIGHT FIXTURE, MAINTAIN BRANCH CIRCUIT/SWITCHING FOR REUSE.
2	DISCONNECT & REMOVE EXISTING EXIT OR EMERGENCY LIGHT. MAINTAIN BRANCH CIRCUIT FOR REUSE.
3	DISCONNECT & REMOVE MECHANICAL EQUIPMENT BRANCH CIRCUIT IN ITS ENTIRETY.
4	REMOVE & REINSTALL SMOKE DETECTOR TO ACCOMMODATE CEILING REPLACEMENT.



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SECOND FLOOR PLAN - DEMO
 1/8" = 1'-0"



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ATTIC BEARING PLAN - DEMOLITION
 1/8" = 1'-0"

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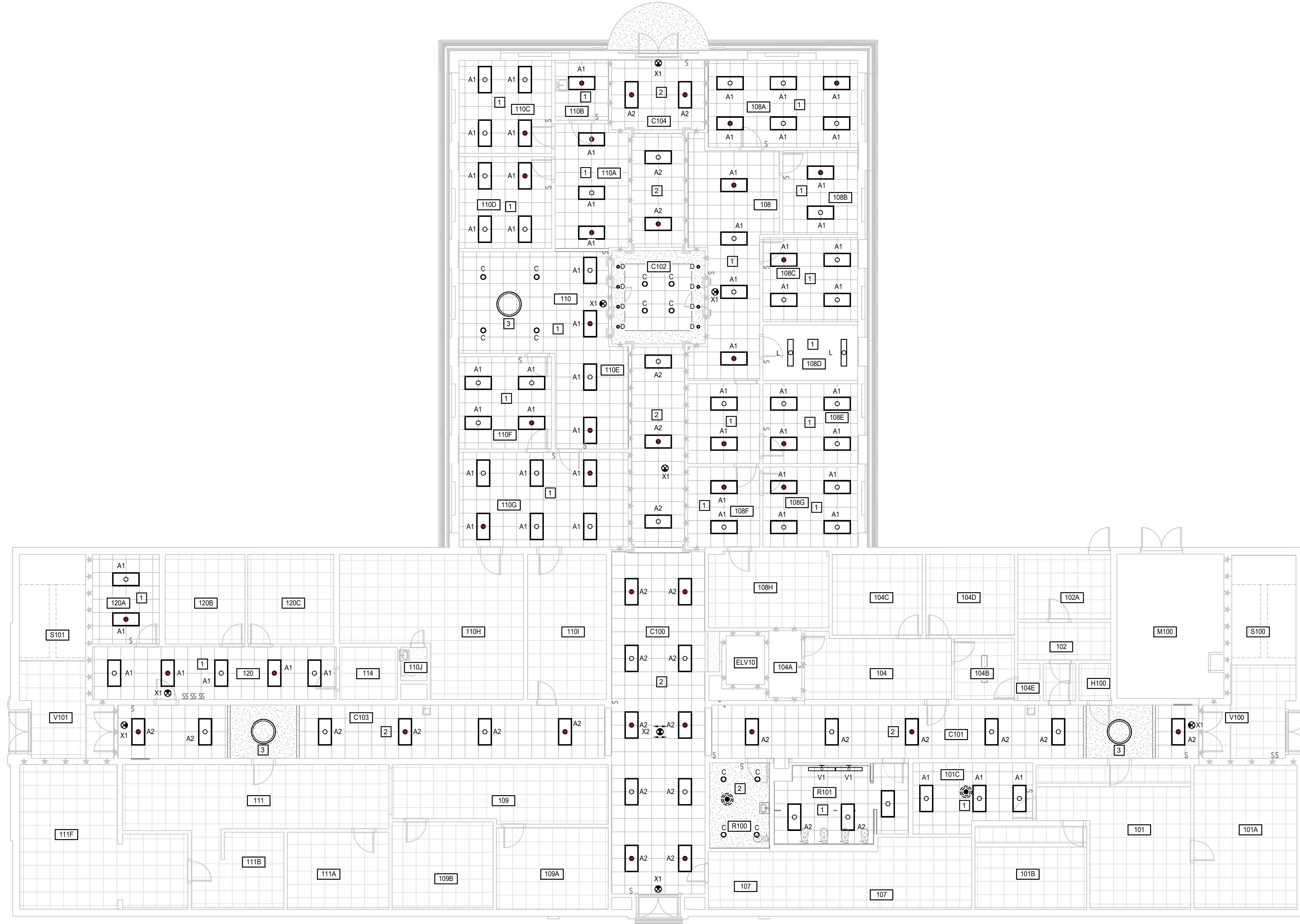
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SECOND & ATTIC
FLOOR PLAN -
DEMOLITION

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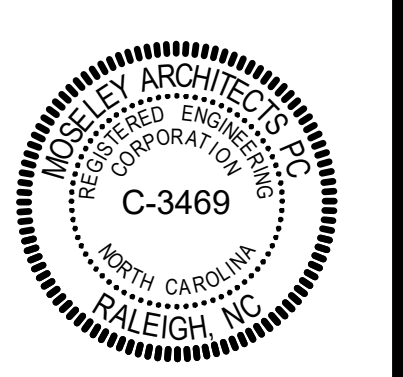
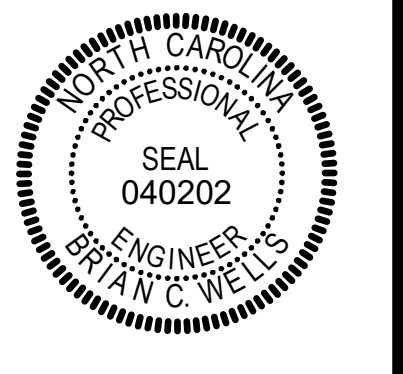


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FIRST FLOOR PLAN - LIGHTING
 1/8" = 1'-0"

KEYNOTES
 APPLIES TO THIS DRAWING

- 1 PROVIDE LIGHT FIXTURE(S) AND SWITCHING IN THIS ROOM AS INDICATED & CONNECT TO EXISTING LIGHTING BRANCH CIRCUIT.
- 2 PROVIDE LIGHT FIXTURE(S) AS INDICATED & CONNECT TO EXISTING CORRIDOR LIGHTING SWITCHING & BRANCH CIRCUIT.
- 3 REINSTALL EXISTING LIGHT FIXTURE, CONNECT TO EXISTING BRANCH CIRCUIT & SWITCHING.



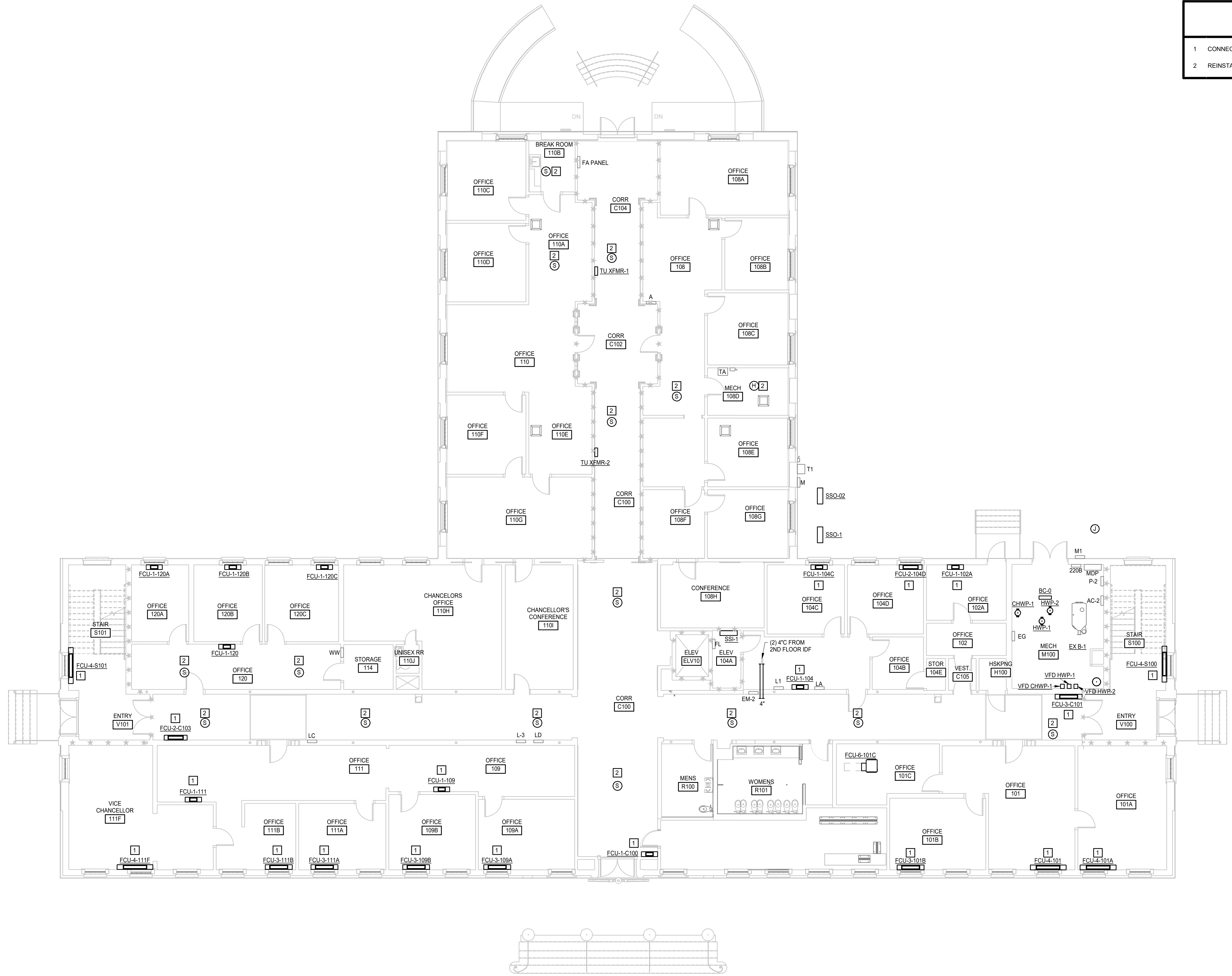
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DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.1.2									
TAG	VOLTAGE	#	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS	
BC-0	120 V	1	0.5 kVA	M	12	(2) #12, (1) #12 E.G. IN 3/4"	N/A		
CHWP-1	480 V	3	6.3 kVA	M1	14,16,18	(3) #12, (1) #12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD	
HWP-1	480 V	3	6.3 kVA	M1	20,22,24	(3) #12, (1) #12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD	
HWP-2	480 V	3	6.3 kVA	M1	7,9,11	(3) #12, (1) #12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD	
SSI-1	208 V	2	0.2 kVA	M	2,4	(2) #10, (1) #10 E.G. IN 3/4"	MOTOR RATED SWITCH	FED FROM OUTDOOR UNIT	
SSO-1	208 V	2	3.2 kVA	M	2,4	(2) #10, (1) #10 E.G. IN 3/4"	30ANF NEMA 3R		
SSO-02	208 V	2	3.2 kVA	M	21,23	(2) #10, (1) #10 E.G. IN 3/4"	30ANF NEMA 3R		
TU XFMR-1	120 V	1	0.5 kVA	M	29	(2) #12, (1) #12 E.G. IN 3/4"	N/A		
TU XFMR-2	120 V	1	0.5 kVA	M	31	(2) #12, (1) #12 E.G. IN 3/4"	N/A		

KEYNOTES
APPLIES TO THIS DRAWING

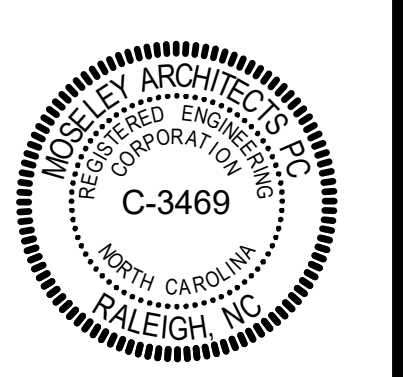
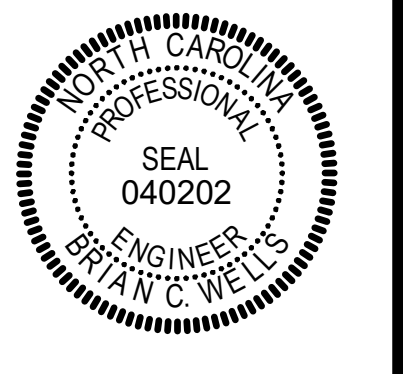
- CONNECT TO EXISTING MECHANICAL EQUIPMENT BRANCH CIRCUIT.
- REINSTALLED SMOKE DETECTOR.



N
FIRST FLOOR PLAN - POWER, COMMUNICATIONS & MECHANICAL POWER
1/8" = 1'-0"

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FIRST FLOOR PLAN - POWER & MECHANICAL POWER

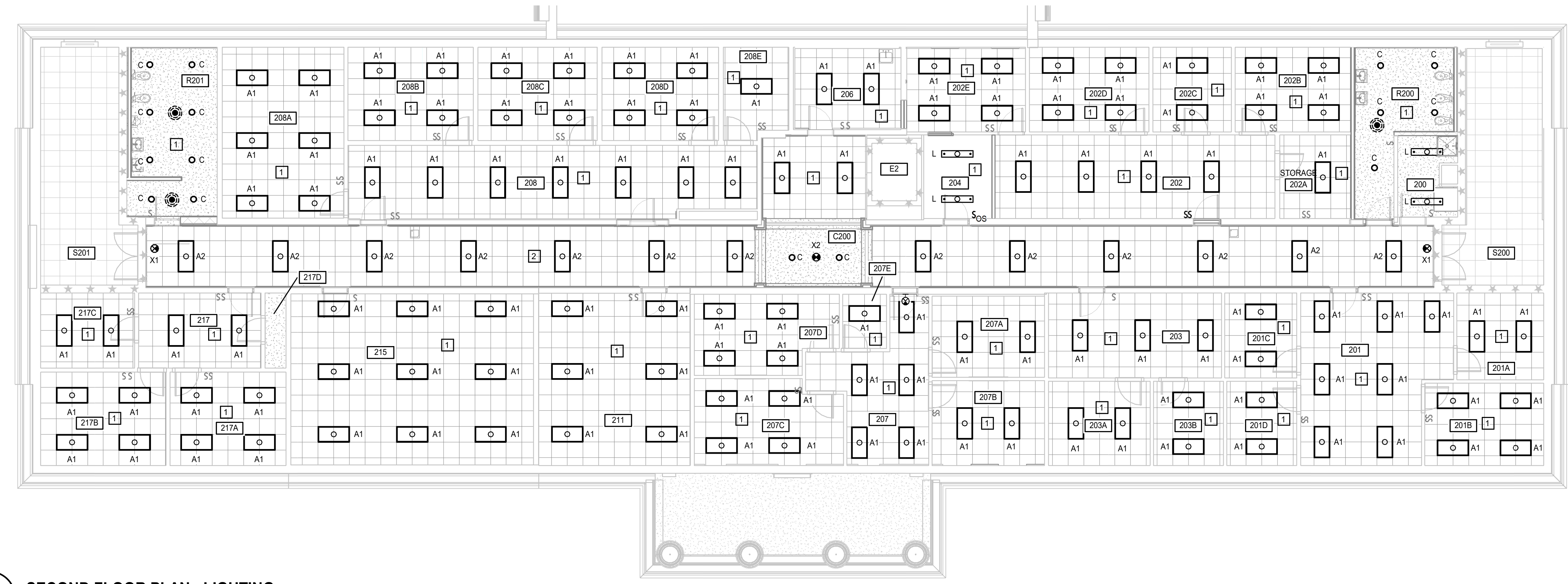
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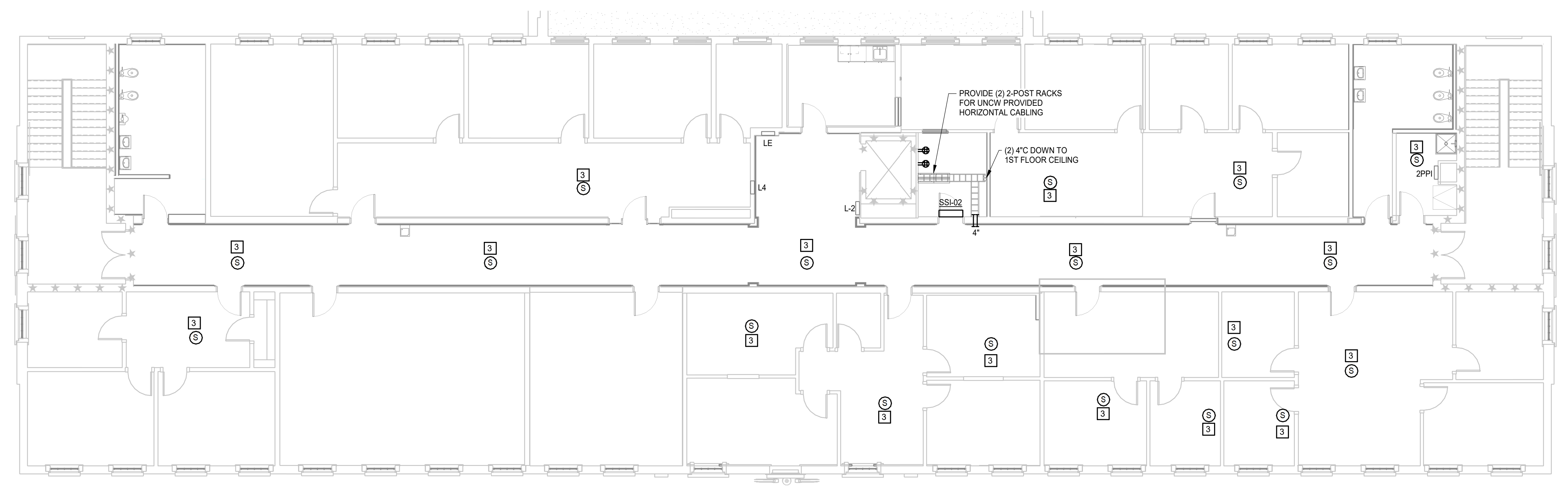
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- KEYNOTES**
APPLIES TO THIS DRAWING
- 1 PROVIDE LIGHT FIXTURE(S) AND SWITCHING IN THIS ROOM AS INDICATED & CONNECT TO EXISTING LIGHTING BRANCH CIRCUIT.
 - 2 PROVIDE LIGHT FIXTURE(S) AS INDICATED & CONNECT TO EXISTING CORRIDOR LIGHTING SWITCHING & BRANCH CIRCUIT.
 - 3 REINSTALLED SMOKE DETECTOR.



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



SECOND FLOOR PLAN - POWER, COMMUNICATIONS & MECHANICAL POWER
1/8" = 1'-0"

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REVISIONS	
DATE	DESCRIPTION

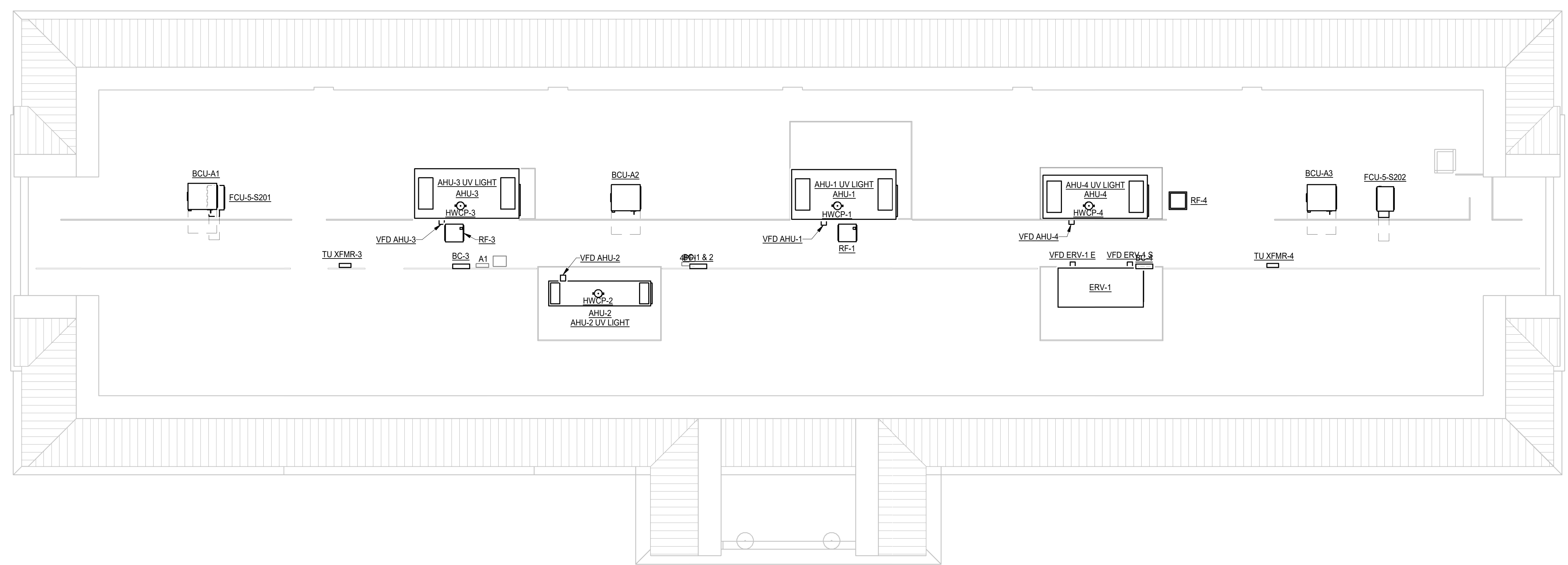
SECOND FLOOR PLAN -
LIGHTING, POWER &
MECHANICAL POWER

E2.2.1

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DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.3.1										
TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS		
AHU-1 UV LIGHT	480 V	3	12.2 KVA	4PPI	1,3,5	(4)#10, (1)#12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD		
AHU-2	480 V	3	1.8 KVA	4PPI	2,4,6	(4)#10, (1)#12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD		
AHU-2 UV LIGHT	120 V	1	0.1 KVA	A1	8	(2)#12, (1)#12 E.G. IN 3/4"	BY DIV 23			
AHU-3	480 V	3	12.2 KVA	4PPI	7,9,11	(4)#10, (1)#12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD		
AHU-3 UV LIGHT	120 V	1	0.1 KVA	A1	10	(2)#12, (1)#12 E.G. IN 3/4"	BY DIV 23			
AHU-4	480 V	3	9.7 KVA	4PPI	8,10,12	(4)#10, (1)#12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD		
AHU-4 UV LIGHT	120 V	1	0.1 KVA	A1	4	(2)#12, (1)#12 E.G. IN 3/4"	BY DIV 23			
BC-1 & 2	120 V	1	0.5 KVA	A1	2	(2)#12, (1)#12 E.G. IN 3/4"	N/A			
BC-3	120 V	1	0.5 KVA	A1	2	(2)#12, (1)#12 E.G. IN 3/4"	N/A			
BC-4	120 V	1	0.5 KVA	A1	2	(2)#12, (1)#12 E.G. IN 3/4"	N/A			
BCU-A1	120 V	1	0.5 KVA	A1	29	(2)#12, (1)#12 E.G. IN 3/4"	BY DIV 23			
BCU-A2	120 V	1	0.5 KVA	A1	13	(2)#12, (1)#12 E.G. IN 3/4"	BY DIV 23			
BCU-A3	120 V	1	0.5 KVA	A1	14	(2)#12, (1)#12 E.G. IN 3/4"	BY DIV 23			
ERV-E	480 V	3	2.8 KVA	4PPI	14,16,18	(3)#12, (1)#12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD		
ERV-S	480 V	3	6.3 KVA	4PPI	13,15,17	(3)#12, (1)#12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD		
FCU-S-S201	208 V	2	0.4 KVA	A1	24,26	(2)#12, (1)#12 E.G. IN 3/4"	BY DIV 23			
FCU-S-S202	208 V	2	0.4 KVA	A1	28,30	(2)#12, (1)#12 E.G. IN 3/4"	BY DIV 23			
HWCP-1	120 V	1	0.9 KVA	A1	12	(2)#12, (1)#12 E.G. IN 3/4"	MANUAL MOTOR STARTER			
HWCP-2	120 V	1	0.9 KVA	A1	15	(2)#12, (1)#12 E.G. IN 3/4"	MANUAL MOTOR STARTER			
HWCP-3	120 V	1	0.9 KVA	A1	17	(2)#12, (1)#12 E.G. IN 3/4"	MANUAL MOTOR STARTER			
HWCP-4	120 V	1	0.9 KVA	A1	19	(2)#12, (1)#12 E.G. IN 3/4"	MANUAL MOTOR STARTER			
RF-1	208 V	2	2.5 KVA	A1	25,27	(2)#12, (1)#12 E.G. IN 3/4"	BY DIV 23			
RF-3	208 V	2	2.5 KVA	A1	16,18	(2)#12, (1)#12 E.G. IN 3/4"	BY DIV 23			
RF-4	208 V	2	2.5 KVA	A1	20,22	(2)#12, (1)#12 E.G. IN 3/4"	BY DIV 23			
TU XFMR-3	120 V	1	1.4 KVA	A1	21	(2)#10, (1)#10 E.G. IN 3/4"	N/A			
TU XFMR-4	120 V	1	1.4 KVA	A1	23	(2)#12, (1)#12 E.G. IN 3/4"	N/A			



N

 ATTIC BEARING PLAN - POWER, COMMUNICATIONS & MECHANICAL POWER
 1/8" = 1'-0"

MOSELEYARCHITECTS

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MOSELEYARCHITECTS.COM



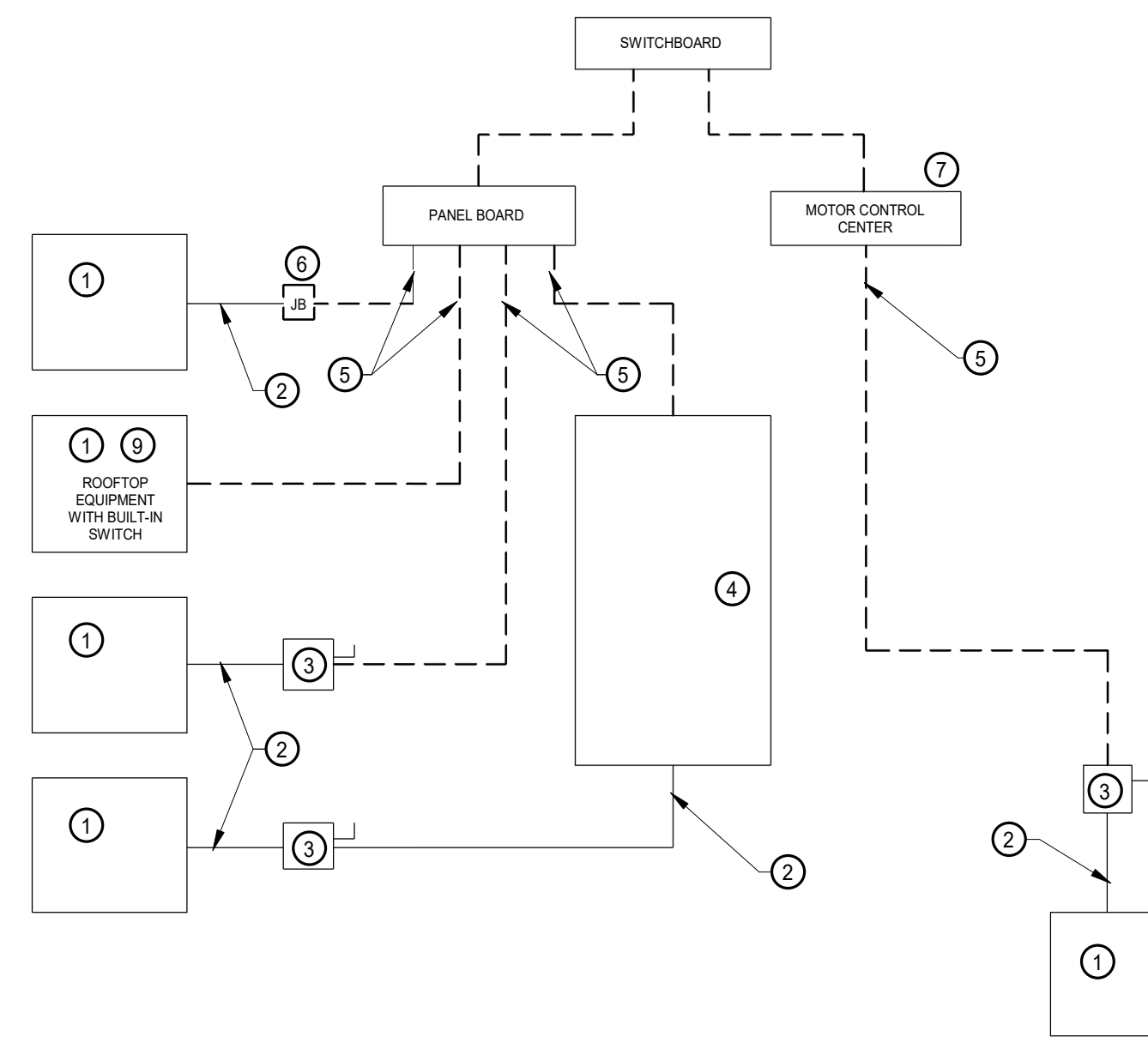
ALDERMAN HALL RENOVATION
 UNIVERSITY OF NORTH CAROLINA WILMINGTON
 SCO # 22-24639-01D
 601 College Rd, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	AUGUST 15, 2023
REVISIONS	
DATE	DESCRIPTION

ATTIC FLOOR PLAN - POWER & MECHANICAL POWER

E2.3.1

- 1 MECHANICAL EQUIPMENT
- 2 CONDUIT AND WIRING BY MECHANICAL CONTRACTOR.
- 3 IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- 4 A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
- 5 FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE ELECTRICAL DRAWINGS.
- 6 JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR.
- 7 PROJECTS UTILIZING AN MCC, THE STARTER, JB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL DRAWINGS.
- 8 IN ALL CASES, THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
- 9 IF THE ROOFTOP FAN IS NOT PROVIDED WITH A BUILT-IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
- 10 IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND OTHER TRADES.



1 DIVISION 23 AND 26 COORDINATION DETAIL
NO SCALE

EXISTING PANELBOARD 4PPI										LOCATION:		FED FROM: MDP			
100 AMP MCB										3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): 10 KAIC	
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT					
1				4.1	0.6										
3	25 A	3	AHU-1			4.1	0.6			AHU-2	3	15 A	2	4	
5								4.1	0.6						
7															
9	25 A	3	AHU-3			4.1	3.2			AHU-4	3	25 A	10	8	
11								4.1	3.2						
13				2.1	0.9					ERV-E	3	15 A	14	12	
15	15 A	3	ERV-S			2.1	0.9								
17								2.1	0.9						
19				0.0	0.0					SPARE	3	15 A	24	18	
21	15 A	3	SPARE												
23										SPARE	3	15 A	24	22	
25				0.0	1.7					TELE COM PANEL	2	20 A	26	20	
27	15 A	3	SPARE			0.0	1.7								
29								0.0		SPACE ONLY	1	--	30	18	
				17 kVA	17 kVA	15 kVA									
				61 A	61 A	54 A									

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER 2008 NEC 427.22. DED. NEUTRAL. (EB) = EXISTING BREAKER
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 (L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING. (PB) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.
 (LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X. (ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

LOADS FOR EXISTING CIRCUITS ARE ASSUMED

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	0 VA	0.00%	0 VA	
AC / HEAT PUMP	35890 VA	100.00%	35890 VA	Total Conn. Load: 48.3 kVA
ELECTRIC HEAT	0 VA	0.00%	0 VA	Total Est. Demand: 48.3 kVA
KITCHEN	0 VA	0.00%	0 VA	Total Conn. Current: 58 A
MISCELLANEOUS	9120 VA	100.00%	9120 VA	Total Est. Demand... 58 A

EXISTING PANELBOARD A1										LOCATION:		FED FROM: T-A1					
100 AMP MCB										120/208 Wye		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): 10 KAIC	
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT							
1				0.0	1.5					BC-1 & 2,3,4	1	15 A	2	4			
3	20 A	2	SPARE			0.0	0.1			AHU-4 UVCLIGHT	1	20 A	4	6			
5	20 A	2	SPARE					0.0	0.1	AHU-2 UVCLIGHT	1	20 A	6	8			
7				0.0	0.1					AHU-3 UVCLIGHT	1	20 A	10	12			
9	20 A	1	SPARE							HWCP-1	1	20 A	10	12			
11	20 A	1	CONDENSATE PUMPS...			0.0	0.9			BCU-A3	1	15 A	14	16			
13	15 A	1	BCU-A2	0.5	0.5												
15	20 A	1	HWCP-2			0.9	1.3			RF-3	2	20 A	18	20			
17	20 A	1	HWCP-3					0.9	1.3								
19	20 A	1	HWCP-4	0.9	1.3					RF-4	2	20 A	20	22			
21	20 A	1	TU XFMR-3			1.4	1.3			FCU-5-S201	2	15 A	24	26			
23	20 A	1	TU XFMR-4					1.4	0.2								
25	20 A	2	RF-1	1.3	0.2			1.3	0.2	FCU-5-S202	2	15 A	28	30			
27																	
29	15 A	1	BCU-A1					0.5	0.2								
				6 kVA	6 kVA	5 kVA											
				50 A	53 A	43 A											

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Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	0 VA	0.00%	0 VA	
AC / HEAT PUMP	2193 VA	100.00%	2193 VA	Total Conn. Load: 17.2 kVA
ELECTRIC HEAT	0 VA	0.00%	0 VA	Total Est. Demand: 17.2 kVA
EXISTING LOAD	0 VA	0.00%	0 VA	Total Conn. Current: 48 A
MISCELLANEOUS	15036 VA	100.00%	15036 VA	Total Est. Demand... 48 A

EXISTING PANELBOARD MDP										LOCATION:		FED FROM:					
600 AMP MCB										480/277 Wye		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): 10 KAIC	
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT							
1				0.0	0.0												
3	100 A	3	SPARE			0.0	0.0			45 LVA XFMR ROOM	3	70 A	4	6			
5								0.0	0.0								
7				5.9	0.0					ELEVATOR	3	40 A	8	10			
9	45 A	3	T-A1			6.2	0.0										
11								5.1	0.0								
13				0.0	3.6					T1	3	90 A	14	16			
15	50 A	3	SPARE			0.0	4.8										
17								0.0	2.7								
19				0.0	0.0					BOILER	3	30 A	22	24			
21	30 A	3	SPARE			0.0	0.0										
23				0.0	0.0					SPARE	3	45 A	28	30			
25	50 A	3	PANEL L1			0.0	0.0										
27								0.0	0.0								
29				0.0	0.0					SPARE	3	20 A	34	36			
31								0.0	0.0								
33	50 A	3	PANEL L2			0.0	0.0										
35										SPARE	3	20 A	34	36			
37				0.0	16.7					4PPI	3	100 A	40	42			
39	225 A	3	SPARE			0.0	16.7										
41								0.0	15.0								
43				6.3	--			6.3	--	SPACE ONLY	3	--	44	46			
45	225 A	3	M1														
47																	
				70 kVA	71 kVA	66 kVA											
				253 A	258 A	239 A											

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LOADS FOR EXISTING CIRCUITS ARE ASSUMED

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	0 VA	0.00%	0 VA	
AC / HEAT PUMP	44639 VA	100.00%	44639 VA	Total Conn. Load: 206.8 kVA
ELECTRIC HEAT	0 VA	0.00%	0 VA	Total Est. Demand: 235.4 kVA
EXISTING LOAD	114900 VA	125.00%	143625 VA	Total Conn. Current: 249 A
MISCELLANEOUS	42805 VA	100.00%	42805 VA	Total Est. Demand... 283 A

EXISTING PANELBOARD M										LOCATION:		FED FROM: T1					
200 AMP MCB										120/208 Wye		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): 10 KAIC	
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT							
1	15 A	2	SPARE	0.0	1.7					SSO-1, SS1-1	2	30 A	2	4			
3						0.0	1.7										
5	15 A	2	SPARE					0.0	0.0	SPARE	2	30 A	6	8			
7										EX RECEPTACLE	1	20 A	10	12			
9	15 A	2	SPARE			0.0	0.2			BC-0	1	20 A	12	14			
11				0.0	1.2			0.0	0.5	EX GOLF CART CHARGER	1	20 A	14	16			
13	15 A	2	SPARE					0.0	1.2	EX GOLF CART CHARGER	1	20 A	16	18			
15										SPARE	1	20 A	18	20			
17	15 A	2	SPARE			0.0	0.0										
19								1.7	0.0	SPARE	3	60 A	24	26			
21	25 A	2	SSO-2, SS1-2 (PB)					1.7	0.0								
23				0.0	0.2					EX OUTDOOR REC	1	20 A	28	30			
25	15 A	2	SPARE			0.0	--			SPACE ONLY	1	--	28	30			
27								0.5	--								
29	20 A	1	TU XFMR-1							SPACE ONLY	1	--	30	32			
31	20 A	1	TU XFMR-2	0.5	--					SPACE ONLY	1	--	32	34			
33	--	1	SPACE ONLY							SPACE ONLY	1	--	34	36			
35	--	1	SPACE ONLY							SPACE ONLY	1	--	36	38			
37	--	1	SPACE ONLY							SPACE ONLY	1	--	38	40			
39	--	1	SPACE ONLY							SPACE ONLY	1	--	40	42			
41	--	1	SPACE ONLY							SPACE ONLY	1	--	42	44			
				4 kVA	5 kVA	3 kVA											
				31 A	41 A	22 A											

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Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	0 VA	0.00%	0 VA	
AC / HEAT PUMP	6740 VA	100.00%	6740 VA	Total Conn. Load: 11.0 kVA
ELECTRIC HEAT	0 VA	0.00%	0 VA	Total Est. Demand: 11.0 kVA
KITCHEN	0 VA	0.00%	0 VA	Total Conn. Current: 31 A
MISCELLANEOUS	1500 VA	100.00%	1500 VA	Total Est. Demand... 31 A

EXISTING PANELBOARD M1										LOCATION:		FED FROM: MDP					
225 AMP MCB										480/277 Wye		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): 10 KAIC	
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT							
1				0.0	0.0					SPARE	1	20 A	2	4			
3	30 A	3	SPARE			0.0	0.0			SPARE	1	20 A	4	6			
5								0.0	0.0	SPARE	1	20 A	6	8			
7				2.1	0.0					SPARE	1	20 A	8	10			
9	20 A	3	HWP-2			2.1	0.0			SPARE	1	20 A	10	12			
11								2.1	0.0	SPARE	1	20 A	12	14			
13				0.0	2.1					CHWP-1	3	20 A	16	18			
15	15 A	3	SPARE			0.0	2.1										
17										0.0							