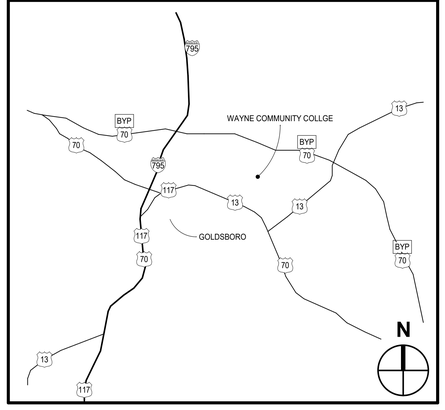
CD SUBMISSION

ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

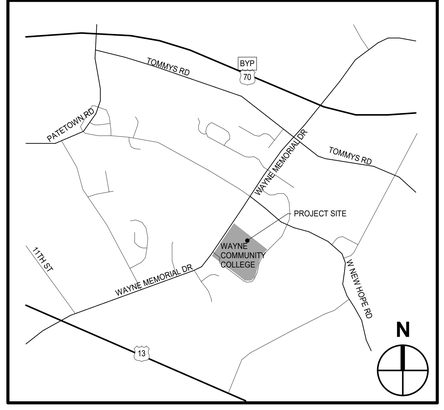
SCO# 16-15906-01C
GOLDSBORO, NC

WAYNE COMMUNITY COLLEGE

VICINITY MAP



LOCATION MAP



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DRAWING INDEX - VOLUME 1

THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.
IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

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REGISTERED ARCHITECT
8/13/2024
14206
NORTH CAROLINA
RALEIGH, NC

MOSELEY ARCHITECTS PC
REGISTERED ARCHITECTURAL CORPORATION
50149
NORTH CAROLINA
RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA
WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

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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: Advanced Manufacturing Center Phase 3 – Azalea Renovation
Address: 3000 Wayne Memorial Drive, Goldsboro, NC Zip Code 27534
Owner/Authorized Agent: Derek Hunter Phone # (919) 739 - 7020 E-Mail rndhunter@waynecc.edu
Owned By: City
Code Enforcement Jurisdiction: City Goldsboro

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Moseley Architects	Brad Lockwood	14206	(919)840-0991	blockwood@moseleyarchitects.com
Electrical	Moseley Architects	Brian Wells	040202	(804)794-7555	bwells@moseleyarchitects.com
Fire Alarm	Moseley Architects	Brian Wells	040202	(804)794-7555	bwells@moseleyarchitects.com
Plumbing	Moseley Architects	Jason Forsyth	037569	(804)794-7555	jforsyth@moseleyarchitects.com
Mechanical	Moseley Architects	Jason Forsyth	037569	(804)794-7555	jforsyth@moseleyarchitects.com
Structural	Moseley Architects	Paul Gagnon	045706	(804)794-7555	pgagnon@moseleyarchitects.com

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: Renovation
2018 NC EXISTING BUILDING CODE: Alteration Level II Repair N/A
CONSTRUCTED: 1990 **CURRENT OCCUPANCY(S)** (Ch. 3): B
RENOVATED: N/A **PROPOSED OCCUPANCY(S)** (Ch. 3): B
RISK CATEGORY (Table 1604.5): **Current:** III **Proposed:** III

BASIC BUILDING DATA
Construction Type: II-B
Sprinklers: No N/A
Standpipes: No
Primary Fire District: Yes **Flood Hazard Area:** No
Special Inspections Required: Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING TO REMAIN(SQ FT)	RENOVATED(SQ FT)	SUB-TOTAL
3rd Floor	7,500 SF	0 SF	7,500 SF
2nd Floor	14,000 SF	0 SF	14,000 SF
1st Floor	4,346 SF	9,564 SF	14,000 SF
TOTAL	25,846 SF	9,946 SF	35,500 SF

ALLOWABLE AREA
Primary Occupancy Classification(s): Business Select one Select one Select one Select one Select one
Accessory Occupancy Classification(s): _____
Incidental Uses (Table 509): _____
Special Uses (Chapter 4 – List Code Sections): _____
Special Provisions: (Chapter 5 – List Code Sections): _____
Mixed Occupancy: Select one Separation: Select one Exception: _____
Select one

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

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[5] AREA	(C) AREA FOR FRONTAGE INCREASE[1,2]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	CLASSROOM	14,000	23,000		
2	CLASSROOM	14,000	23,000		
3	OFFICE	7,500	23,000		

[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 I_f = 100[F/P - 0.25] x W/30 = _____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[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 unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE [1]
Building Height in Feet (Table 504.3) [2]	55'	40'	
Building Height in Stories (Table 504.4) [3]	3	3	

[1] Provide code reference if the "Shown on Plans" quantity is not 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)	RATING REQ'D	RATING PROVIDED (W/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0	0				
Bearing Walls		0	0				
Exterior		0	0				
North		0	0				
East		0	N/A ETR				
West		0	N/A ETR				
South		0	N/A ETR				
Interior		0	0				
Nonbearing Walls and Partitions							
Exterior walls							
North	>30	0	0				
East	26'-4"	0	N/A ETR				
West	12'-6"	0	N/A ETR				
South	>30	0	N/A ETR				
Interior walls and partitions							
Floor Construction Including supporting beams and joists		0	0				
Floor Ceiling Assembly		0	0				
Columns Supporting Floors		0	0				
Roof Construction, including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		0	0				
Shaft Enclosures - Exit		1	N/A ETR				
Shaft Enclosures - Other		1	1				
Corridor Separation		1	1 (ONLY NEW WORK)				
Occupancy/Fire Barrier Separation		N/A					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Smoke Partition		N/A					
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A					
Incidental Use Separation		N/A					

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS NOT APPLICABLE NO NEW OPENINGS ARE BEING ADDED

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENING PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: Yes
Smoke Detection Systems: Partial All Common Spaces; All Interior Corridors
Carbon Monoxide Detection: No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #:
- [x] Fire and/or smoke rated wall locations (Chapter 7)
- [ ] Assumed and real property line locations (if not on the site plan)
- [x] Exterior wall opening area with respect to distance to assumed property lines (705.8)
- [x] Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- [x] Occupant loads for each area
- [x] Exit access travel distances (1017)
- [x] Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- [x] Dead end lengths (1020.4)
- [x] Clear exit widths for each exit door
- [x] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- [x] 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
- [x] 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

PLUMBING FIXTURE REQUIREMENTS (FIRST FLOOR RECALCULATED DUED TO INCREASE IN OCCUPANT LOAD) (TABLE 2902.1)

USE		WATER CLOSETS MALE	WATER CLOSETS FEMALE	WATER CLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS /TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G	7	5			4	4				
	NEW										
	REQ'D	4	4			4	4				

NOTE: 2 EXISTING UNISEX TOILETS ON FIRST FLOOR ASSIGNED 1 TO EACH GENDER
EXISTING TOILETS ON FIRST FLOOR MEET MINIMUM REQUIREMENTS OF NEW OCCUPANT LOAD

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

Goldsborough County for building permit

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy 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

Exempt Building: Yes Provide code or statutory reference: Section N1107.2

Climate Zone: 3A

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

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly) **N/A**
Description of assembly: _____
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: MCM PANEL, 2 ½" XPS INSULATION, 6" CFSF W/ 3.5" BATTS
U-Value of total assembly: .08
R-Value of insulation: 12.5

Openings (windows or doors with glazing)
U-Value of assembly: 0.23
Solar heat gain coefficient: 0.030
projection factor: 0.00
Door R-Values: 4.00

Walls below grade (each assembly) **N/A**
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly) **N/A**
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade N/A
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

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

DESIGN LOADS:

Importance Factors: Snow (I_S) N/A
Seismic (I_E) N/A

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

Ground Snow Load: N/A psf

Wind Load: Ultimate Wind Speed 130 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: B
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) III
Spectral Response Acceleration S_S_____ %g S_1_____ %g
Site Classification (ASCE 7) B
Data Source: Presumptive
Basic structural system BUILDING FRAME – EXISTING STEEL
Analysis Procedure: Select one

Architectural, Mechanical, Components anchored? Select one

LATERAL DESIGN CONTROL: Wind

SOIL BEARING CAPACITIES: N/A
Select one _____ psf
Pile size, type, and capacity _____

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

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 21.7°F
summer dry bulb: 96.5°F

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

Building heating load: Existing to Remain

Building cooling load: Existing to Remain

Mechanical Spacing Conditioning System
Unitary
description of unit: N/A
heating efficiency: N/A
cooling efficiency: N/A
size category of unit: N/A
Boiler
Size category. If oversized, state reason.: Existing to Remain
Chiller
Size category. If oversized, state reason.: Existing to Remain

List equipment efficiencies: Existing to Remain

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

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
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (SPACE BY SPACE: 5536W Specified vs 11112 Allowed)
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 HVAC Equipment Performance
- [x] 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

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MOSELEY ARCHITECTS, P.C. REGISTERED ARCHITECTURAL CORPORATION 50149 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA
WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

APPENDIX B

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AZALEA HALL
FIRST FLOOR

OCCUPANCY	OCC LOAD	WATER CLOSETS MALE FACTOR	WC MALE REQ'D	WC MALE PROVIDED	WC FEMALE FACTOR	WC FEMALE REQ'D	WC FEMALE PROVIDED	LAVATORIES MALE FACTOR	LAV MALE REQ'D	LAV MALE PROVIDED	LAV FEMALE FACTOR	LAV FEMALE REQ'D	LAV FEMALE PROVIDED	BATH TUBS/SHOWERS FACTOR	BATH REQ'D	BATH PROVIDED	DRINKING FOUNTAINS FACTOR	DF REQ'D	DF PROVIDED	SERVICE SINKS REQ'D	SERVICE SINKS PROVIDED
B	317	30	1.00		30	1.00		40	2.00		40	2.00		0	0.00		100	3.17		1	
		50	2.57		50	2.57		80	0.98		80	0.98									
NEW TOTAL	**317**		**4**	**7**		**4**	**5**		**3**	**4**		**3**	**4**		**0**	**0**		**4**	**4**	**1**	**1**

PLUMBING FIXTURE CALCS

NOTE: THIS TABLE IS FOR THE FIRST FLOOR OF THE BUILDING ONLY AS THAT IS THE ONLY FLOOR WHERE THE OCCUPANT LOAD CHANGED ENOUGH TO REQUIRE A RECALCULATION AND POTIENTIAL UPDATES PER THE EXISTING BUILDING CODE. EXITSTING WATER CLOSETS, LAVS AND SERVICE SINKS MET THE CALCULATED REQUIRMENTS. THE TWO EXISTING DRINKING FOUNTAINS ON THIS LEVEL WERE NOT SUFFICIENT SO TWO ADDITIONAL FOUNTAINS WERE ADDED TO ACCOMODATE ADDITIONAL OCCUPANT LOAD OF THIS LEVEL. THE TWO SINGLE USER TOILETS ON THIS LEVEL WERE ASSIGNED 1 MALE AND 1 FEMALE IN THE COUNTS.

IT WAS ASSUMED THAT FIXTURE CALCULATIONS FOR THE OTHER LEVELS MET THE CODE UNDER WHICH THEY WERE PERMITTED. HOWEVER THE DESIGNER RAN THE NUMBERS FOR THE ENTIRE BUILDING WITH A TOTAL BUILDING B OCCUPANT LOAD OF 884.

MALE AND FEMALE WATER CLOSETS REQUIRED FOR ENTIRE BUILDING IS 10 MALE AND 10 FEMALE. MALE PROVIDED IN TOTAL IN THE BUILDING IS 15 AND FEMALE PROVIDED 13. THIS EXCEEDS WHAT IS REQUIRED.

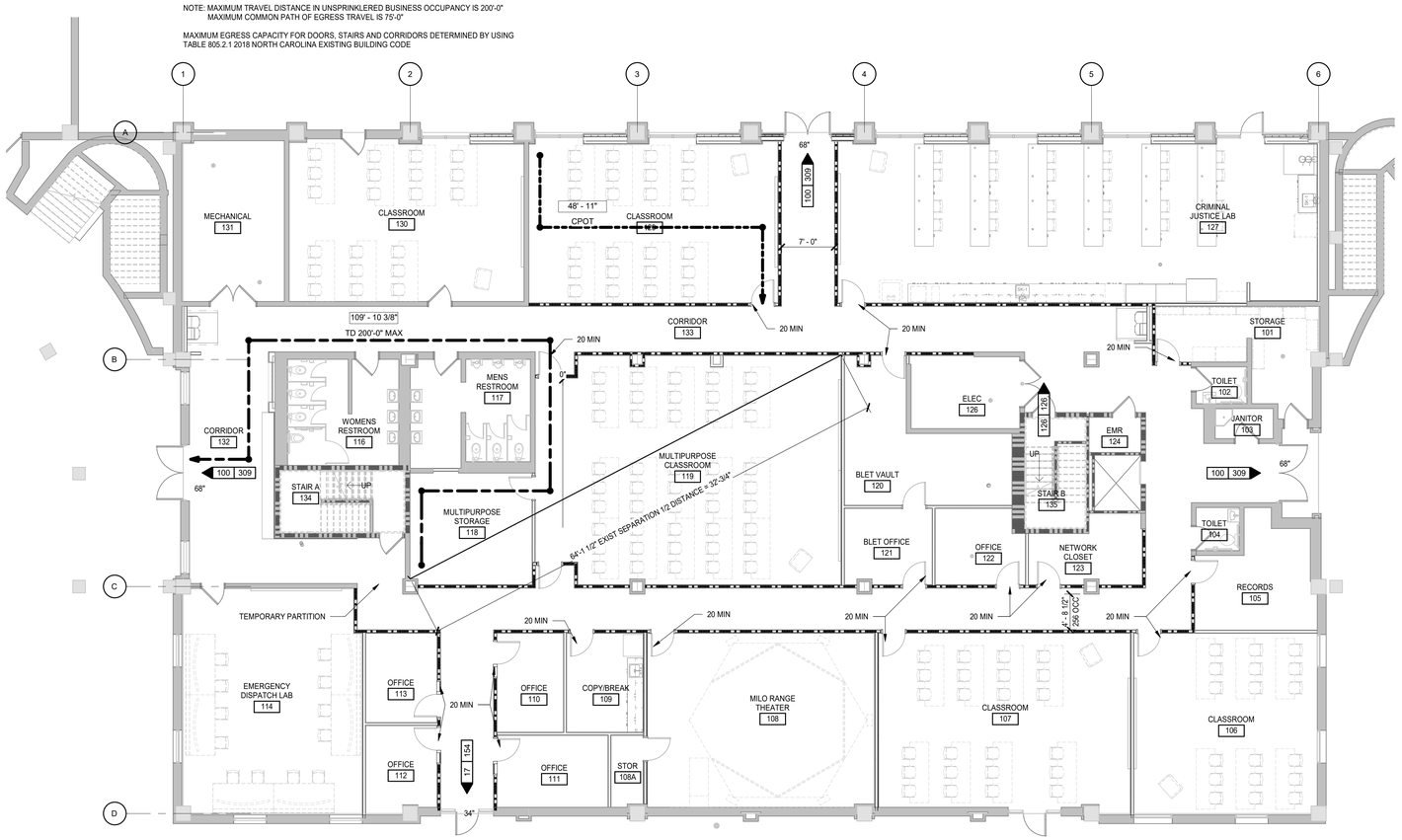
LAVATORIES REQUIRED IN THE BUILDING IS 7 MALE AND 7 FEMALE. 8 MALE AND FEMALE LAVS ARE PROVIDED IN TOTAL THROUGHOUT THE BUILDING. THIS ALSO EXCEEDS THE REQUIRED NUMBER.

OCCUPANCY SCHEDULE

SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	AREA SF	AREA GROSS	AREA NET	OCCUPANCY LOAD TABULAR	OCCUPANCY LOAD ACTUAL	OCCUPANCY LOAD DESIGN
101	STORAGE	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	212	•		1		1
102	TOILET	B	BUSINESS AREA	100 SF	32	•		1		1
103	JANITOR	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	31	•		1		1
104	TOILET	B	BUSINESS AREA	100 SF	32	•		1		1
105	RECORDS	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	196	•		1		1
106	CLASSROOM	B	EDUCATIONAL, CLASSROOM	20 SF	581		•	30		30
107	CLASSROOM	B	EDUCATIONAL, CLASSROOM	20 SF	768		•	39		39
108	MILO RANGE THEATER	B	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	689		•	14		14
108A	STOR	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	39	•		1		1
109	COPY/BREAK	B	BUSINESS AREA	100 SF	132	•		2		2
110	OFFICE	B	BUSINESS AREA	100 SF	115	•		2		2
111	OFFICE	B	BUSINESS AREA	100 SF	139	•		2		2
112	OFFICE	B	BUSINESS AREA	100 SF	106	•		2		2
113	OFFICE	B	BUSINESS AREA	100 SF	111	•		2		2
114	EMERGENCY DISPATCH LAB	B	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	705		•	15		15
116	WOMENS RESTROOM	B	BUSINESS AREA	100 SF	203	•		3		3
117	MENS RESTROOM	B	BUSINESS AREA	100 SF	213	•		3		3
118	MULTIPURPOSE STORAGE	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	237	•		1		1
119	MULTIPURPOSE CLASSROOM	B	EDUCATIONAL, CLASSROOM	20 SF	1183		•	60		60
120	BLET VAULT	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	291	•		1		1
121	BLET OFFICE	B	BUSINESS AREA	100 SF	115	•		2		2
122	OFFICE	B	BUSINESS AREA	100 SF	114	•		2		2
123	NETWORK CLOSET	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	118	•		1		1
124	EMR	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	32	•		1		1
126	ELEC	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	138	•		1		1
127	CRIMINAL JUSTICE LAB	B	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	1347		•	27		27
129	CLASSROOM	B	EDUCATIONAL, CLASSROOM	20 SF	700		•	35		35
130	CLASSROOM	B	EDUCATIONAL, CLASSROOM	20 SF	661		•	34		34
131	MECHANICAL	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	287	•		1		1
132	CORRIDOR	B	BUSINESS AREA	100 SF	509	•		6		6
133	CORRIDOR	B	BUSINESS AREA	100 SF	2047	•		21		21
134	STAIR A	B	BUSINESS AREAS	150 SF	134	•		1		1
135	STAIR B	B	BUSINESS AREA	100 SF	116	•		2		2
					12334					317

NOTE: MAXIMUM TRAVEL DISTANCE IN UNSPRINKLERED BUSINESS OCCUPANCY IS 200'-0"
MAXIMUM COMMON PATH OF EGRESS TRAVEL IS 75'-0"

MAXIMUM EGRESS CAPACITY FOR DOORS, STAIRS AND CORRIDORS DETERMINED BY USING TABLE 805.2.1 2018 NORTH CAROLINA EXISTING BUILDING CODE



1 / A2.1 | LS1.1 **FIRST FLOOR PLAN**
1/8" = 1'-0"

LIFE SAFETY SYMBOL LEGEND

APPLIES TO LS SERIES OF DRAWINGS ONLY

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

SYMBOLS

- 1205 — ROOM NUMBER
- 798 | 1280 — DIRECTION OF EGRESS, EGRESS LOAD CAPACITY, NUMBER OF OCCUPANTS
- DIRECTION OF EGRESS, NUMBER OF OCCUPANTS, EGRESS LOAD CAPACITY — 798 | 1280
- 174'-9" TD — EXIT ACCESS TRAVEL DISTANCE
- 74'-9" CPOT — COMMON PATH OF TRAVEL
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER BRACKET

LIFE SAFETY PLAN GENERAL 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.
4. FIRST FLOOR WILL BE UNOCCUPIED WHILE WORK IS BEING PERFORMED
5. FLOORS 2 AND 3 WILL BE OCCUPIED WHILE WORK IS PERFORMED. CONTRACTOR SHALL MAINTAIN MEANS OF EGRESS FOR DURATION OF PROJECT.

FIRE RATED ASSEMBLIES

REPRESENTED BY Xn

THE ASSEMBLIES REFERENCED ARE BASIS OF DESIGN; EQUIVALENT COMPATIBLE TESTED ASSEMBLIES WILL BE ACCEPTABLE IF APPROVED BY THE LAHJ

MARK	FIRE RATING	APPLIES TO	REFERENCE	REMARKS
X1	1 FP	GYPSUM BOARD PARTITION	U419	
X2	1 FP	GYPSUM BOARD PARTITION	V-488	
X3	1FP	HEAD OF GYPSUM PARTITION PERPENDICULAR TO DECK FLUTES	HW-D-0025	EX FLOOR IS 3" STEEL DECK AND 3 1/4" CONC AND MEETS THE FLOOR REQUIRMENTS OF THIS ASSEMBLY
X4	1FP	HEAD OF GYPSUM PARTITION PARALLEL TO DECK FLUTES	HW-D-0210	EX FLOOR IS 3" STEEL DECK AND 3 1/4" CONC AND MEETS THE FLOOR REQUIRMENTS OF THIS ASSEMBLY
X5	1FP	HEAD OF GYPSUM PARTITION UNDER STEEL BEAM	HW-D-0259	CONDITION OCCURS ALONG GRIDLINE C. EX FLOOR IS 3" STEEL DECK AND 3 1/4" CONC AND MEETS THE FLOOR REQUIRMENTS OF THIS ASSEMBLY
X6	1FP	HEAD OF GYPSUM PARTITION SLIGHTLY TO THE SIDE OF STEEL BEAM	HW-D-0582	CONDITION MAY OCCUR ALONG GRIDLINE B. EX FLOOR IS 3" STEEL DECK AND 3 1/4" CONC AND MEETS THE FLOOR REQUIRMENTS OF THIS ASSEMBLY

MOSELEY ARCHITECTS
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
MOSELEYARCHITECTS.COM

BRADLEY J LOCKWOOD
REGISTERED ARCHITECT
8/13/2024
14206
NORTH CAROLINA
RALEIGH, NC

MOSELEY ARCHITECTS PC
REGISTERED ARCHITECTURAL CORPORATION
50149
NORTH CAROLINA
RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

LIFE SAFETY PLAN

LS1.1

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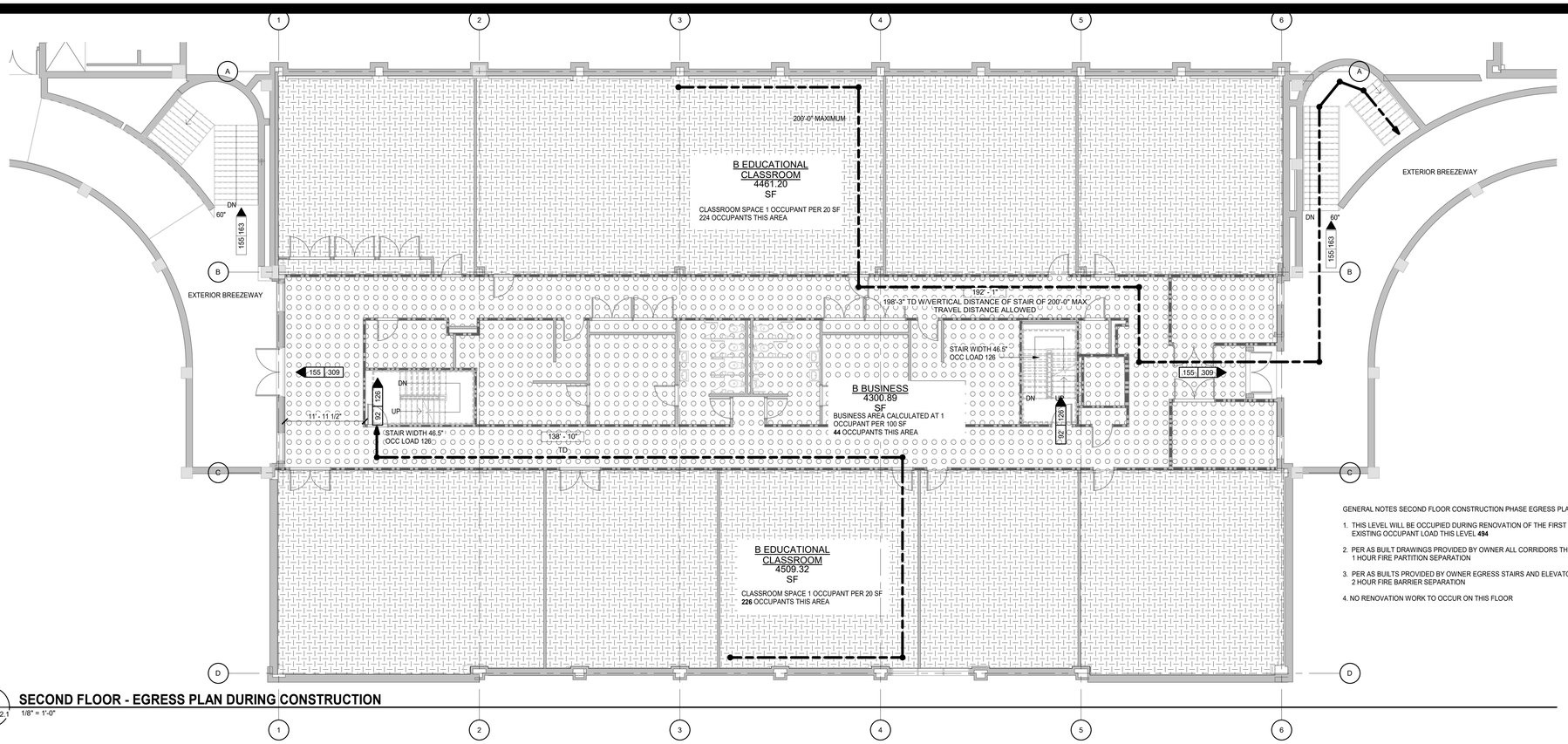
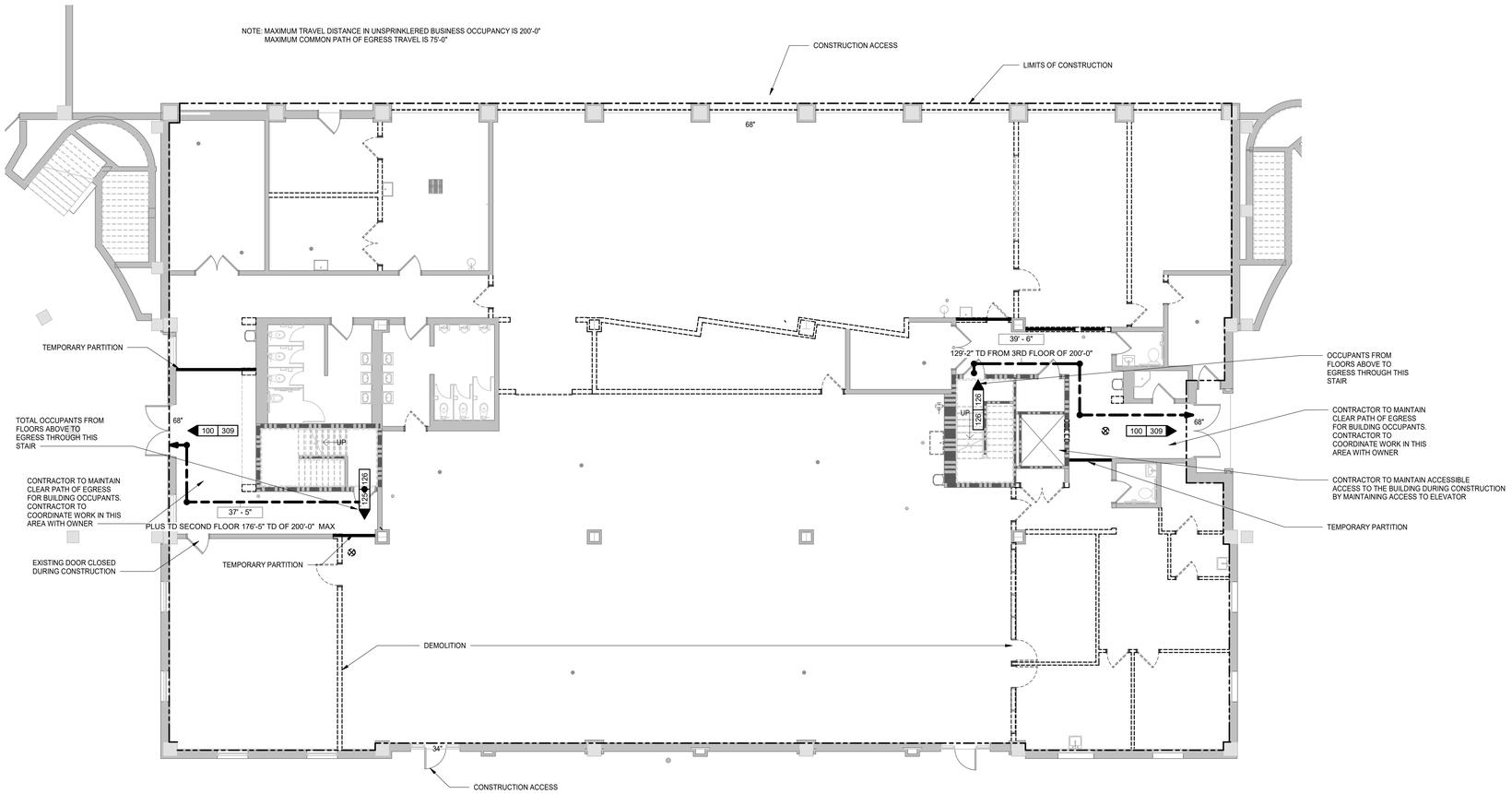


SECOND FLOOR - EGRESS PLAN DURING CONSTRUCTION

1/8" = 1'-0"

GENERAL NOTES SECOND FLOOR CONSTRUCTION PHASE EGRESS PLAN:

1. THIS LEVEL WILL BE OCCUPIED DURING RENOVATION OF THE FIRST FLOOR
   EXISTING OCCUPANT LOAD THIS LEVEL **494**
2. PER AS BUILT DRAWINGS PROVIDED BY OWNER ALL CORRIDORS THIS LEVEL HAVE
   1 HOUR FIRE PARTITION SEPARATION
3. PER AS BUILTS PROVIDED BY OWNER EGRESS STAIRS AND ELEVATOR SHAFT HAVE A
   2 HOUR FIRE BARRIER SEPARATION
4. NO RENOVATION WORK TO OCCUR ON THIS FLOOR



FIRST FLOOR - EGRESS PLAN DURING CONSTRUCTION

1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

CONSTRUCTION PHASE
EGRESS PLAN

LS2.1

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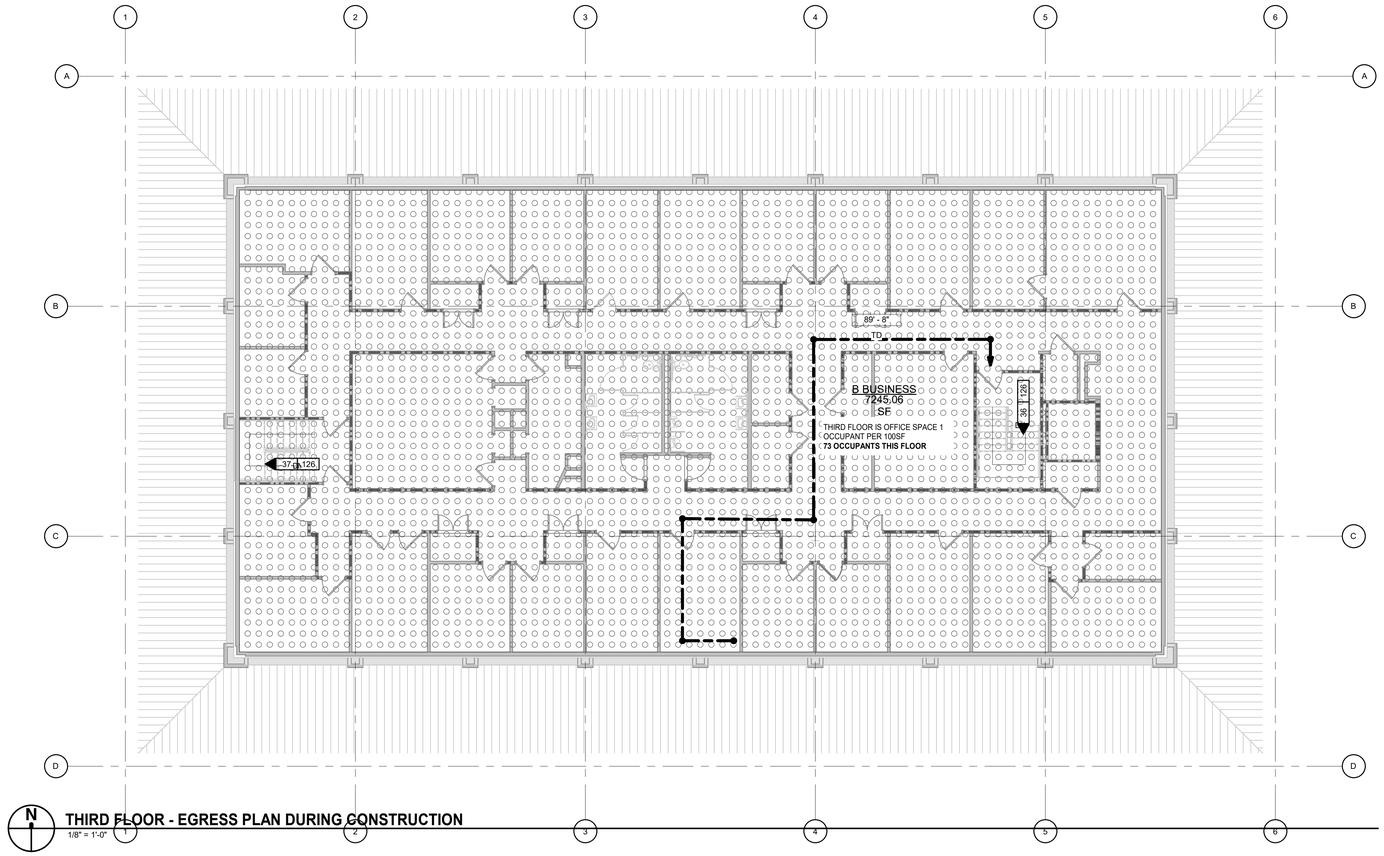

THIRD FLOOR - EGRESS PLAN DURING CONSTRUCTION

1/8" = 1'-0"

NOTES:

1. THIS LEVEL WILL BE OCCUPIED DURING RENOVATION OF THE FIRST FLOOR EXISTING OCCUPANT LOAD THIS LEVEL **73 OCCUPANTS**
2. PER AS BUILT DRAWINGS PROVIDED BY OWNER ALL CORRIDORS THIS LEVEL HAVE 1 HOUR FIRE PARTITION SEPARATION
3. PER AS BUILTS PROVIDED BY OWNER EGRESS STAIRS AND ELEVATOR SHAFT HAVE A 2 HOUR FIRE BARRIER SEPARATION

0' 2' 4' 8' 16'

1/8" = 1'-0"

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NORTH CAROLINA
RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

CONSTRUCTION PHASE
EGRESS PLAN

LS2.2

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X1

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

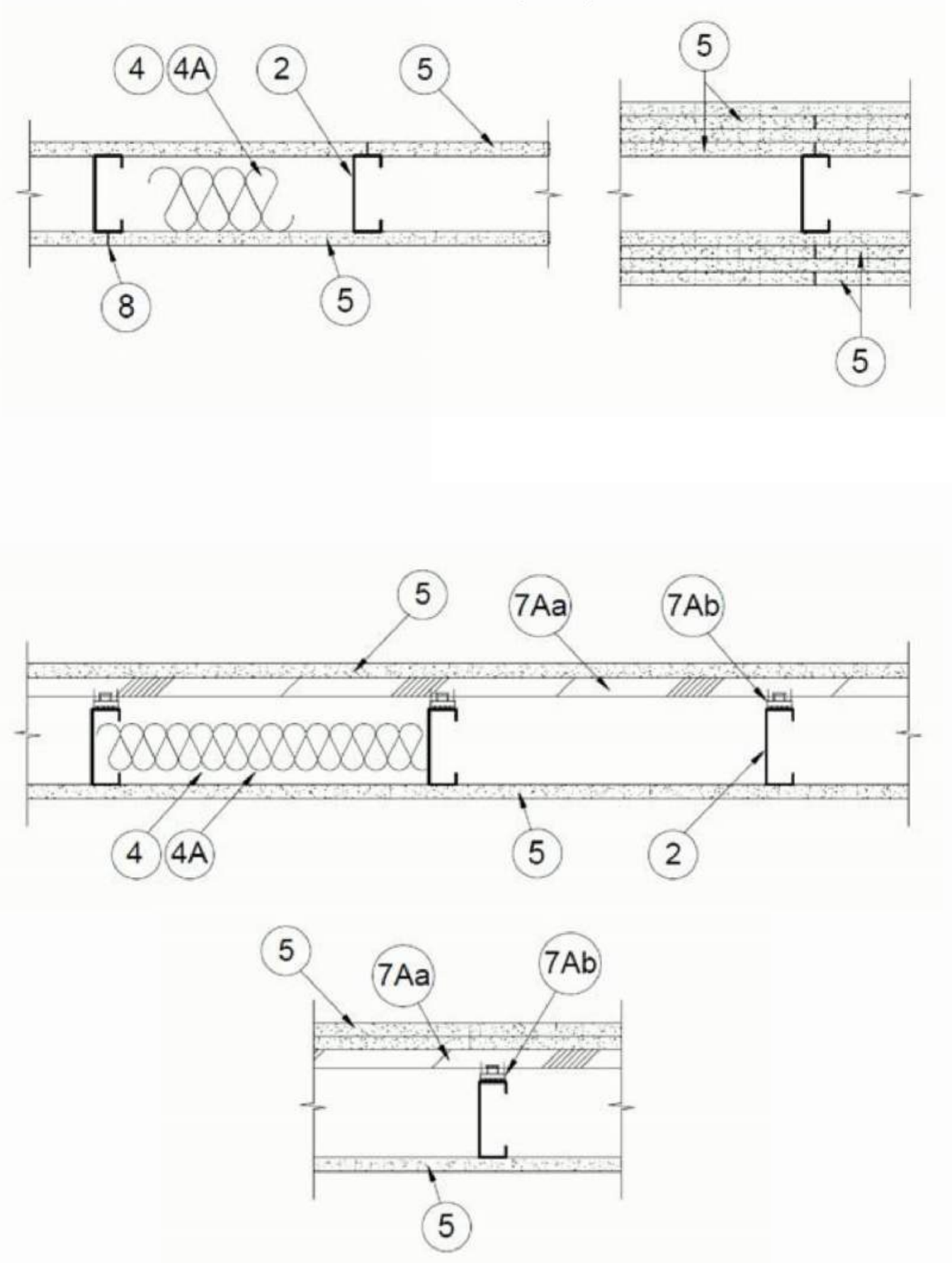
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U419

June 14, 2024

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CEMCO, LLC — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* — Floor and Ceiling Runner —** For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1K. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1L. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

1O. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper X Track

1P. **Framing Members* — Floor and Ceiling Runner —** (Not Shown — Alternate to Item 1) — For use with Item 2R, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.

HYPERFRAME INC - Hypertrack

1Q. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2S , proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Tracks 3-5/8" and 6".

1R. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2T, proprietary channel shaped runners ,min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max

IRONLINE METALS LLC — Bantam Track.

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs —** (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CEMCO, LLC — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CEMCO, LLC — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. **Framing Members* — Steel Studs —** In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2I. **Framing Members* — Steel Studs —**

2J. **Framing Members* — Metal Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. **Framing Members*— Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2O. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CEMCO, LLC — Viper X

2R. **Framing Members* — Steel Studs —** (Not Shown — Alternate to Item 2, For use with Item 1P) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1P). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

HYPERFRAME INC— Hyperstud

2S. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1Q, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6".

2T. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1R, proprietary channel shaped steelstuds, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

IRONLINE METALS LLC — Bantam Stud.

3. **Wood Structural Panel Sheathing —** (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets* —** (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4A. **Batts and Blankets* —** (Optional – as an alternate to item 4) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4B. **Fiber, Sprayed* —** (Optional – as an alternate for items 4 or 4A, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. **Foamed Plastic* —** (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4D. **Foamed Plastic* —** (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® XL, Walltite® MAX, Walltite® LWP, Walltite® Plus and Enertite® Max

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board* —** (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).
RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board* —** (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.
CGC INC — Type SCX, ULIX.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULIX

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board* —** (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
CGC INC — Type ULIX, ULX

UNITED STATES GYPSUM CO — Type ULIX, ULX

USG MEXICO S A DE C V — Type ULX

5J. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. **Gypsum Board* —** (As an alternate to Item 5 when Foam Plastic insulation (Items 4C or 4D) is used) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

6. **Fasteners —** (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Single layer system with Type ULIX:** 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically.**Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels —** (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. **Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members* —** (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7F. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco —** (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants* —** (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips —** (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs —** (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. **Lead Batten Strips —** (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs —** (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-06-14

MOSELEYARCHITECTS
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
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BRADLEY J LOCKWOOD
REGISTERED ARCHITECT
8/13/2024
14206
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MOSELEY ARCHITECTS PC
REGISTERED ARCHITECTURAL CORPORATION
50149
NORTH CAROLINA
RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

UL ASSEMBLIES

LS3.1

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X2

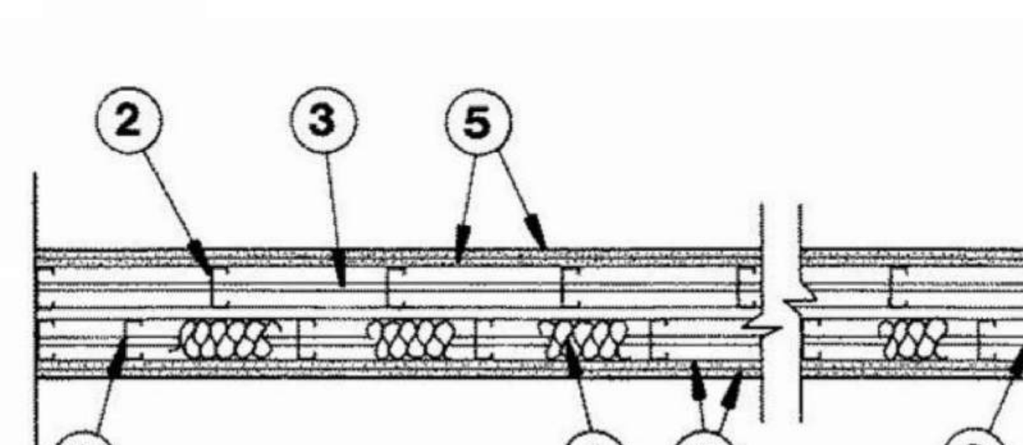
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **V488**

November 14, 2023

Nonbearing Wall Rating — 1 or 2 Hr. (See Items 5 and 5A)
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



HORIZONTAL SECTION

1. **Floor and Ceiling Runners —** (For use with Item 5) — Channel shaped, attached to floor and ceiling in two rows, a min 1 in. apart, with steel fasteners spaced 24 in. OC. Runners fabricated from min No. 25 MSG galv steel, 1-1/4 in. wide and min 2-1/2 in. deep.

1A. **Floor and Ceiling Runners —** (As an alternate to Item 1, For use with Item 5A, 5B, and 5C) — Channel shaped, attached to floor and ceiling in two rows, a min 1 in. apart. Runners fabricated from min No. 20 MSG galv steel, 1-3/16 in. wide and min 2-9/16 in. deep.

1B. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2B, channel shaped, min 2-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1D. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2D, channel shaped, min 2-1/2 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 for a 2 hour rating only - For use with Item 2E, channel shaped, min 2-1/2 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1F. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2F, channel shaped, min 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC. max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1G. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 – For use with Item 2G, proprietary channel shaped runners, 1-1/4 in. wide by min. 2-1/2 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

PANEL REY S A – SUPRA Track 20EQ/19 mil

1H. **Framing Members* — Floor and Ceiling Runner —** (Not Shown — Alternate to Item 1) — For use with Item 2H, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.

HYPERFRAME INC - Hypertrack

2. **Steel Studs —** (For use with Item 5) — Channel shaped, supplied with cutouts, friction -fitted into floor and ceiling runners and spaced a max 24 in. OC. Studs cut 1/2 in. less than assembly height and evenly staggered between the two rows of floor and ceiling runners. Studs fabricated from min No. 25 MSG galv steel, min 2-1/2 in. deep by 1-5/8 in. wide with 3/8 in. folded back return flange legs.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5A, 5B, and 5C) — Channel shaped, supplied with cutouts, friction - fitted into floor and ceiling runners and spaced a max 16 in. OC. Studs cut 1/2 in. less than assembly height and staggered flush against the floor runners. Studs fabricated from min No. 20 MSG galv steel, min 2-1/2 in. deep by 1-3/16 in. wide with 1/4 in. folded back return flange legs.

2B. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1B, channel shaped studs, min 2-1/2 in. deep fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2C. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1C, channel shaped studs, min 2-1/2 in. deep fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2D. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1D, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2E. **Framing Members* — Steel Studs —** As an alternate to Item 2 for a 2 hour rating only — For use with Item 1E, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2F. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1F, channel shaped studs, min 2-1/2 in. deep fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1G, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 2-1/2 in. deep with 1/4 in. return lips fabricated from min 0.019 in. thick galv steel, spaced 24 in. OC max. Studs cut 1/2 in. less in length than assembly height.

PANEL REY S A – SUPRA Stud 20EQ/19 mil

2H. **Framing Members* — Steel Studs —** (Not Shown — Alternate to Item 2, For use with Item 1H) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1H). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

HYPERFRAME INC— Hyperstud

3. **Lateral Bracing —** The bracing shall be in accordance with the SSMA Technical Note Dated March 2000 Referencing Unsheathed Flange Bracing.

3A. **Framing Members* — Lateral Bracing —** (Not Shown) — Right angle- shaped, supplied with notches spaced 12, 16, or 24 in. OC., friction-fitted to the cutouts in steel studs, supplied in 7/8 in. by 7/8 in. by 50 in. lengths. Lateral bracing bars fabricated from min. 20 MSG galvanized steel. The bracing shall be located a maximum of 5 ft on center in accordance with the manufacturers published literature.
CLARKDIETRICH BUILDING SYSTEMS — TradeReady Spazzer 9200 bar

4. **Batts and Blankets* —** Optional — Glass fiber batts may be friction-fitted to completely fill the stud cavities on one or both rows of studs.
See **Batts and Blankets** (BZJZ) Category for names of manufacturers.

5. **Gypsum Board* —** Nom 5/8 in. thick, 4 ft. wide, gypsum panels with beveled, square or tapered edges.. **For single layer systems** gypsum panels applied vertically or horizontally with joints centered over studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. and 12 in. along the top and bottom of the wall. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long Type S screws spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall. **For two layer systems** gypsum panels applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs and in adjacent layers. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints in adjacent layers staggered a min of 12 in. First layer secured with 1 in. long Type S or S-12 steel screws, spaced 16 in. OC. Second layer secured with 1-5/8 in. long Type S or S-12 steel screws, spaced 16 in. OC with screws offset 8 in. from first layer. Screw spacings remain the same when applied to furring channels.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C

5A. **Gypsum Board* —** (As an alternate to Item 5 may be used as the base layer on one or both sides of wall. For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
RAY-BAR ENGINEERING CORP — Type RB-LBG

5B. **Gypsum Board* —** (As an alternate to Item 5 may be used as the base layer on one or both sides of wall. For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP-LBG

5C. **Gypsum Board* —** (As an alternate to Item 5 when used as the base layer on one or both sides of wall, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grades "A, B, C or D". Fasteners for face layer gypsum panels (Items 5) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 6.
MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

5D. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Item 5) — Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 5. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 5, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 5.
NATIONAL GYPSUM CO — Type FSW

5E. **Gypsum Board* —** (As an Alternate to Items 5 through 5D) – For single layer system only. Nominal 5/8 in. thick, 4 ft wide panels applied vertically only, fastened to the studs and plates with 1 in. long Type S steel screws spaced 12 in. OC. When studs (Item 2) spaced a max 16 in. OC, 5/8" in. thick gypsum panels applied vertically or horizontally with 1 in. long Type S steel screws spaced 16 in. OC along vertical edges and in the field and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Type SBWB

5F. **Gypsum Board* —** (As an Alternate to Item 5) – Installed as described in Item 5. For single layer system only. Batts and Blankets (Item 4) required to be friction-fitted to completely fill the stud cavities in both rows of studs.

NATIONAL GYPSUM CO — Type FSLX

6. **Joint Tape and Compound —** (Not Shown) — Outer layer joints covered with joint compound and paper or mesh tape. Screw heads covered with joint compound. Paper or mesh tape and joint compound may be omitted when gypsum boards are supplied with square edges.

7. **Lead Batten Strips —** (Not Shown, For Use With Item 5A) — Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5C) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

8. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5A) — Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5C) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

9. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) — For use with Item 5- Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the SoundBreak gypsum board is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
NATIONAL GYPSUM CO — SoundBreak Gypsum Board.

10. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems, not for use with items 5A, 5B or 5C) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item 10a) to studs. Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

10A. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems, not for use with items 5A, 5B or 5C) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 5.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

10B. **Steel Framing Members* —** (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems, not for use with items 5A, 5B, or 5C) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 5.

b. **Steel Framing Members* —** Used to attach furring channels (Item 10Ba) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

10C. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems, not for use with items 5A, 5B, or 5C) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 10Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-11-14

X3

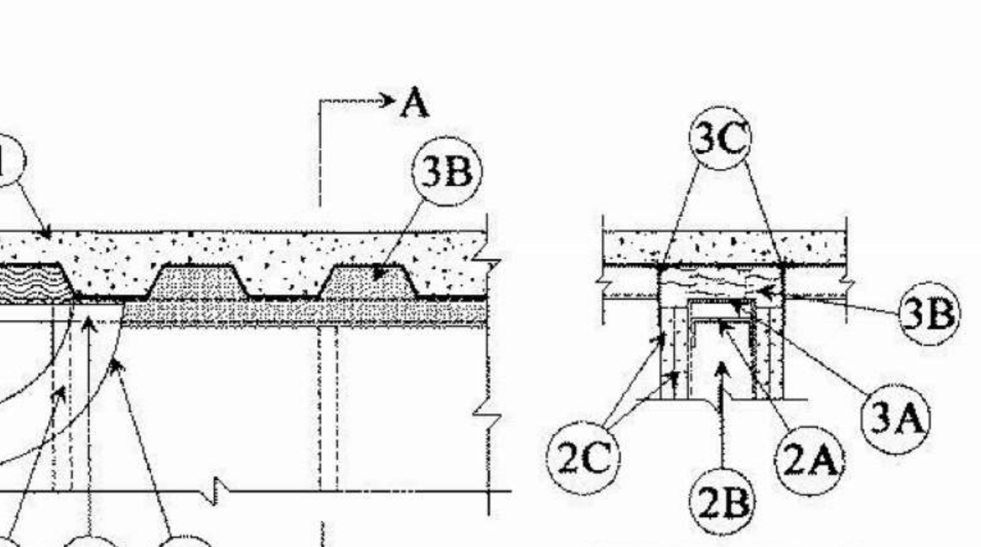
XHBN - Joint Systems

See General Information for Joint Systems

System No. HW-D-0025

June 21, 2023

Assembly Ratings — 1 & 2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/Lin Ft.
L Rating At 400 F — Less Than 1 CFM/Lin Ft.
Nominal Joint Width — 3/4 In.
Class II Movement Capabilities — 33% Compression & Extension



1. **Floor Assembly —** The fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Form Units* —** Max 3 in. (76 mm) deep galv steel fluted units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

1A. **Roof Assembly —** (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly and shall include the following construction features:
A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation —** Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

C. **Roof Covering* —** Hot-mopped or cold-application materials compatible with insulating concrete.

2. **Wall Assembly —** The 1 hr or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor And Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). When U-shaped deflection channel (Item 3A) is used, ceiling runner installed within the deflection channel with 1 in. gap maintained between the top of ceiling runner and top of deflection channel. When deflection channel is not used, ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors or by welds spaced max 24 in. (610 mm) OC.

A1 **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.
CEMCO, LLC — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

METAL-LITE INC — The System

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing* — Vertical Deflection Ceiling Runner —** As an alternate to the ceiling runner in Items 2A, 2A1 or 2A2, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Vertical deflection ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When vertical deflection ceiling runner is used, deflection channel (Item 3A) shall not be used.
THE STEEL NETWORK INC — VertiTrack VTD362, VTD400, VTD600 and VTD800

A3. **Light Gauge Framing* — Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection channel (Item 3A) shall not be used.
OLMAR SUPPLY INC — Type SCR

B. **Studs —** Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height. Studs attached to ceiling runner with sheet metal screws a min of 1/2 in. (13 mm) below bottom of deflection channel, when deflection channel is used. When deflection channel is not used, studs shall not be secured to ceiling runners. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A3) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

C. **Gypsum Board* —** Gypsum board sheets installed to a min total thickness of 5/8 and 1-1/4 in. (16 and 32 mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the lower surface of the floor. The screws attaching the gypsum board to studs at the top of the wall shall be located 1 in. (25 mm) below the bottom of the deflection channel, when deflection channel is used. When deflection channel is not used, the screws attaching the gypsum board to studs at the top of the wall shall be located 1 in. (25 mm) below the bottom of the ceiling runner.
The hourly fire rating of the joint system is dependent on the hourly fire rating of the wall.

3. **Joint System — Max separation between bottom of floor and top of wall is 1 in. (25 mm). The joint system is designed to accommodate a max 33 percent compression or extension from its installed width.** The joint system consists of an optional deflection channel, forming material and a fill material, as follows:
A. **Deflection Channel —** (Optional) — A nom 3-5/8 in. (92 mm) wide by min 2 in. (51 mm) deep min 24 gauge steel U-shaped channel. Deflection channel installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors or by welds spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1 in. (25 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.

B. **Forming Material* —** Min 4-7/8 in. (124 mm) thickness of min 4 pcf (64 kg/m^3) density mineral wool batt insulation cut to the shape of the fluted deck, approximately 25 percent larger than the areas of the flutes and compressed into flutes of the steel floor units between the top of the deflection channel and the steel deck, flush with both sides of wall. Additional pieces of min 5/8 in. (16 mm) thickness of min 4 pcf mineral wool batt insulation are to be cut into strips and compressed approximately 25 percent in width to fill the max 3/4 in. (19 mm) gap between the top of the gypsum board and bottom of the steel floor units, flush with both sides of wall. —

THERMAFIBER INC — Type SAF

C. **Fill, Void or Cavity Material* —** Min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed or brushed on each side of the wall in the flutes of the steel floor units and between the top of the gypsum board and the bottom of the steel floor units to completely cover mineral wool and overlap a min of 1 in. (25 mm) onto gypsum board and steel deck on both sides of wall.
PASSIVE FIRE PROTECTION PARTNERS — 3500SI, 5100SP

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-06-21

X4

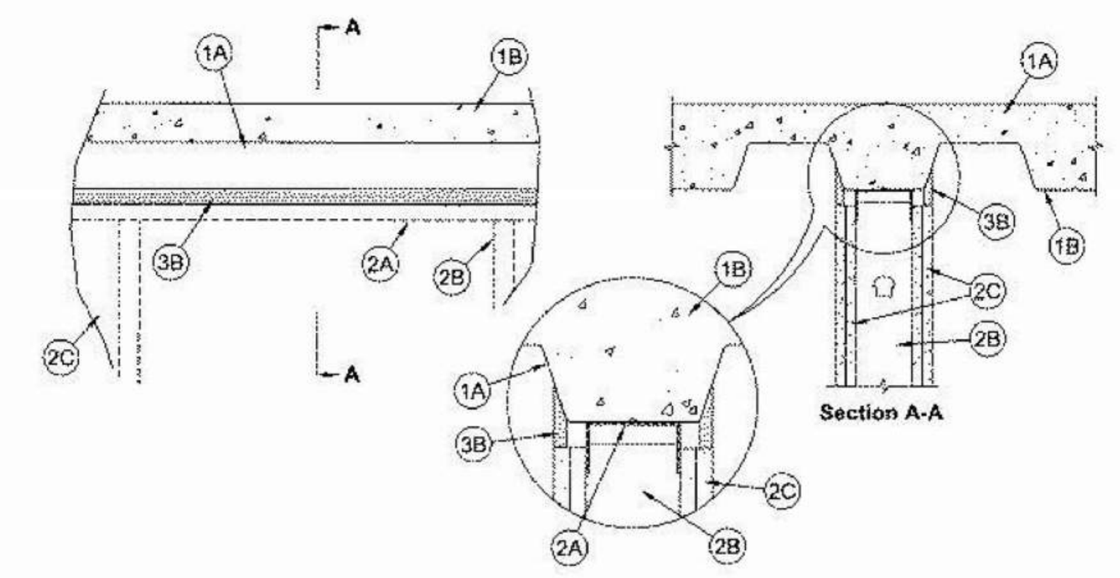
XHBN - Joint Systems

See General Information for Joint Systems

System No. HW-D-0210

June 26, 2023

Assembly Ratings — 1 and 2 Hr (See Item 2)
Joint Width — 3/4 in.
L Rating At Ambient — Less Than 1 CFM/Lin Ft
L Rating At 400°F — Less Than 1 CFM/Lin Ft
Class II Movement Capabilities — 25% Compression



1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor And Form Units* —** Max 3 in. (76 mm) deep galv steel fluted floor units having a min valley width of 4-3/4 in. (121 mm).

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

1A. **Roof Assembly — (Not Shown) —** As an alternate to the floor assembly (Item 1), a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly fire rating of the roof assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The roof assembly shall include the following construction features:
A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck having a min valley width of 4-3/4 in. (121 mm).

B. **Roof Insulation —** Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the steel roof deck.

2. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor And Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs. When deflection channel (Item 3A) is used, ceiling runner to be provided with min 2 in. (51 mm) flanges. Ceiling runner installed within the deflection channel with a 1/2 in. (13 mm) to 3/4 in. (19 mm) gap maintained between the top of the ceiling runner and the top of the deflection channel. When deflection channel is not used, flange height of ceiling runner shall be min 1/2 in. (13 mm) greater than nom joint width. Ceiling runner installed parallel to fluted steel deck, centered beneath valley, and secured with steel masonry anchors or welds spaced max 24 in. (610 mm) OC.

A1. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Items 2B). Slotted ceiling runner installed parallel to fluted steel deck, centered beneath valley, and secured with steel masonry anchors or welds spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.
CEMCO, LLC — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

QUAIL RUN BUILDING MATERIALS INC — Slotted Deflection Track

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

STEELER INC — Steeler Slotted Ceiling Runner

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing*- Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A and 2A1, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection channel (Item 3A) shall not be used.
OLMAR SUPPLY INC — Type SCR

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 in. (13 mm) to 3/4 in. (19 mm) less in length than assembly height with bottom nesting in and secured to floor runner. When deflection channel (Item 3A) is used, steel studs attached to ceiling runner with sheet metal screws located 1/2 in. (13 mm) below the bottom of the deflection channel. When deflection channel is not used, studs to nest in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in. (610 mm) OC.

B1. **Light Gauge Framing* —Slotted Studs —** Slotted steel stud to be used in conjunction with **Light Gauge Framing* —Floor and Ceiling Runners** (Item 2A1). Slotted steel studs to be min 3-1/2 in. (89 mm) wide. Slotted steel studs cut 1/2 in. to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and secured to both ceiling and floor runners. Ceiling runner secured to preformed slot within steel stud by means of No. 10 by 3/4 in. (19 mm) long low profile head steel screw. Floor runner attached to bottom of steel stud by means of No. 8 by 1/2 in. (13 mm) long pan head steel screw. Slotted steel stud spacing not to exceed 24 in. (610 mm) OC.
STEELER INC — Steeler Slotted Stud

C. **Gypsum Board* —** Gypsum board sheets installed to a min total thickness of 5/8 in. (16 mm) and 1-1/4 in. (32 mm) on each side of wall for 1 and 2 hr fire rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the steel floor units. In addition, the top row of screws shall be installed into the steel studs 1/2 to 1 in. (13 to 25 mm) below the bottom edge of the ceiling runner flange.

The hourly fire rating of the joint system is equal to the hourly fire rating of the wall assembly in which it is installed.

3. **Joint System — Max separation between bottom of floor or roof deck and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 25 percent compression from its installed width.** The joint system consists of the following:
A. **Deflection Channel — (Optional, Not Shown) —** Max 2 in. (51 mm) deep min 24 gauge galv steel channel sized to accommodate ceiling runner (Item 2A). Deflection channel installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors or welds spaced max 24 in. (610 mm) OC. The ceiling runner is installed within the deflection channel to maintain a 1/2 in. to 3/4 in. gap (13 to 25 mm) between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.

B. **Forming Material — (Optional, Not Shown) —** In 2 hr fire rated wall assemblies, foam backer rod friction fit into joint opening and recessed min 1/2 in. (13 mm) from each surface of wall.

C. **Fill, Void or Cavity Material* — Sealant —** Min 1/2 in. (13 mm) thickness of fill material applied within joint opening on both sides of wall, flush with both surfaces of wall. As an option in 1 hr fire rated walls, bond breaker tape applied to ceiling channel (Item 2A) or deflection channel (Item 3A) prior to installation of fill material.
SPECIFIED TECHNOLOGIES INC — SpecSeal ES Elastomeric Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-06-26

X5

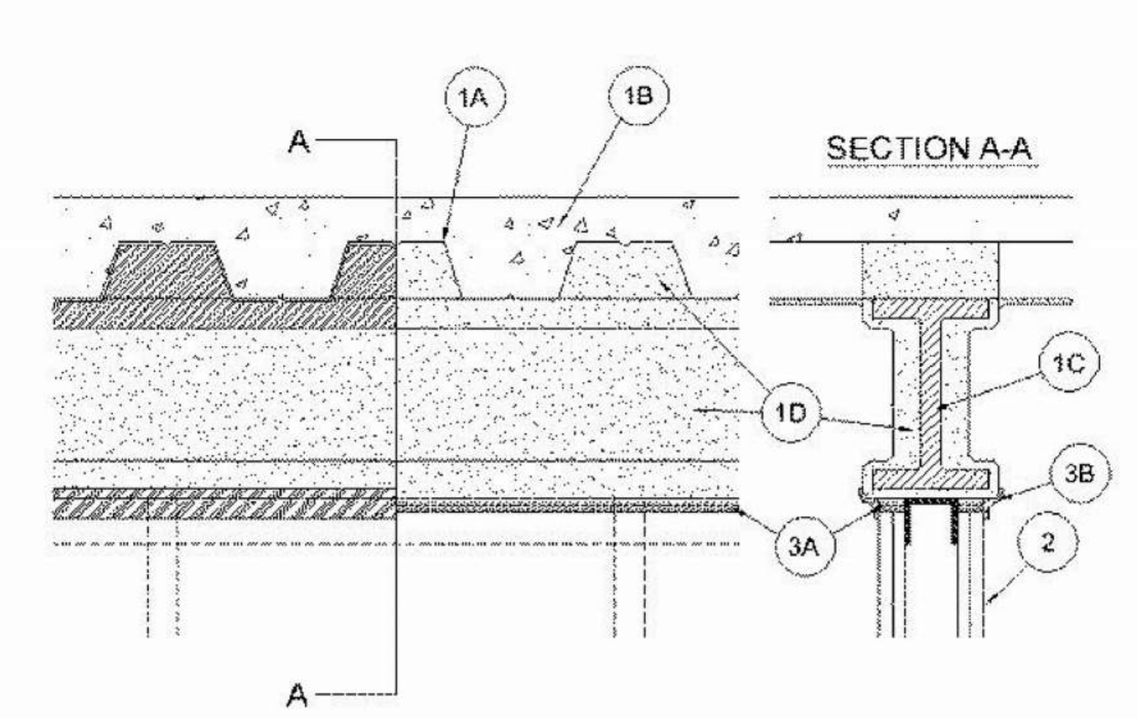
XHBN - Joint Systems
XHBN7 - Joint Systems Certified for Canada
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0259

June 23, 2023

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Items 1 and 2)	F Ratings — 1 and 2 Hr (See Items 1 and 2)
Nominal Joint Width - 1-1/2 In.	FT Ratings — 1 and 2 Hr (See Items 1 and 2)
Class II Movement Capabilities — 50% Compression or Extension	FH Ratings — 1 and 2 Hr (See Items 1 and 2)
L Rating At Ambient — Less Than 1 CFM/lin ft	FTH Ratings — 1 and 2 Hr (See Items 1 and 2)
L Rating At 400 F — Less Than 1 CFM/lin ft	Nominal Joint Width - 1-1/2 In.
	Class II Movement Capabilities — 50% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/lin ft
	L Rating At 400 F — Less Than 1 CFM/lin ft



1. **Floor Assembly —** The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Form Units* —** Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Structural Steel Support —** Steel beam, as specified in the individual D700 or D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support centered over and parallel with wall assembly.

D. **Spray-Applied Fire Resistive Material* —** Steel floor units and structural steel beam to be sprayed with the thickness of material specified in the individual D700 Series Design or the structural steel supports to be sprayed in accordance with the specifications in the individual D900 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam. Additional material shall be applied to the web of the steel beam on each side of the wall. **For a 1 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 13/16 in. (21 mm). For a 2 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 1-3/8 in. (35 mm).**
GCP APPLIED TECHNOLOGIES INC — Types MK-6-HY or MK-10HB

D1. **Spray-Applied Fire Resistive Material* —** Steel floor units and structural steel support to be sprayed with the min thickness of material specified in the individual D700 or D900 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam. **Additional material shall be applied to the web of the steel beam on each side of the wall. For a 1 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 11/16 in. (18 mm). For a 2 hr Assembly Rating, the total thickness of material applied to each side of the steel beam web shall be min 1-1/2 in. (38 mm).**
ISOLATEK INTERNATIONAL — Type 300, Type 400

2. **Wall Assembly* —** The 1 or 2 h fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner centered beneath and parallel with steel beam (Item 1C). Ceiling runner secured to steel beam through spray-applied fire resistive material with steel fasteners spaced max 24 in. (610 mm) OC.

A1. **Light Gauge Framing* —** Slotted Ceiling Runner As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner centered beneath and parallel with steel beam (Item 1C). Slotted ceiling runner secured to steel beam with steel fasteners, steel fasteners or welds spaced max 24 in. (610 mm) OC.
CEMCO, LLC — CST, CST325

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing* —** Vertical Deflection Ceiling Runner As an alternate to the ceiling runners in Item 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner centered beneath and parallel with steel beam (Item 1C). Vertical Deflection ceiling runner secured to steel beam with steel fasteners, steel fasteners or welds spaced max 24 in. (610 mm) OC.

A3. **Light Gauge Framing*- Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A2, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.
OLMAR SUPPLY INC — Type SCR

A4. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A through 2A3, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Flange height of slotted ceiling runner shall be 3-1/4 in. (83 mm) with 2 in. (51 mm) deep slots. Slotted ceiling runner centered beneath and parallel with steel beam (Item 1C). Slotted ceiling runner secured to steel beam with steel fasteners or welds spaced max 24 in. (610 mm) OC.
SCAFCO STEEL STUD MANUFACTURING CO — Slotted Track-Type SDLT

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 3/4 in. to 1-1/4 in. (19 to 32 mm) less in length than assembly height with bottom nesting in, resting on and fastened to the floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, studs secured to vertical clip through slip bushing, supplied, with No.8 by 1/2 in. (13 mm) steel screws at mid-height of slot of each slot. Stud spacing not to exceed 24 in. (610 mm) OC. When slotted ceiling runner (Item 2A4) is used, steel studs cut in lengths 3/4 to 1-3/4 in. (19 to 44 mm) less than floor to ceiling height and secured to slotted ceiling runner with No. 8 by 1/2 (13 mm) long wafer head steel screws at +/- 3/16 in. (5 mm) of the mid-height of slot on each side of wall.

C. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, number of layers an sheet orientation shall be as specified in the individual U400 or V400 Series Design in the Fire Resistance Directory, except that a max 1-1/2 in. (38 mm) gap shall be maintained between top edge of the gypsum board and the spray applied fire resistive material on the structural steel support. The top row of screws shall be installed into the studs 1-1/2 in. (38 mm) below the bottom of the ceiling runner.

D. **Steel Attachment Clips —** (Optional - Not Shown) - As an alternate to steel fasteners, ceiling runner secured to steel beam with Z-shaped clips formed from min 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom flange of the steel beam with 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clips fastened to bottom of beam (prior to application of spray-applied fire-resistive materials) and top of ceiling runner with steel fasteners or welds. Clips spaced max 24in. (610 mm) OC.
The hourly ratings of the joint system are dependent on the hourly rating of the wall.

3. **Joint System — Max separation between bottom of spray-applied fire resistive material on beam and top of gypsum board at time of installation is 1-1/2 in. (38 mm). The joint system is designed to accommodate a max 50 percent compression or extension from its installed width.** The joint system consists of a forming material and a fill material between the top of the gypsum board and the bottom of the spray-applied fire resistive material on the beam, as follows:
A. **Forming Material* —** Nominal 4 pcf (64 kg/m^3) mineral wool forming material cut into strips to fill the gap between top of the gypsum board and bottom of beam. Width of the strips shall be equal to the total thickness of the gypsum board. The strips of mineral wool shall be compressed 50 percent in thickness and firmly packed into the gap between the top of gypsum board and bottom of beam.
ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — SAFE

THERMAFIBER INC — Type SAF

A1. **Forming Material* - Strips —** (Optional) - Nom 5/8 in. (16 mm) and 1-1/4 in. (32 mm) wide by 2 in. (51 mm) high precut mineral wool strips for 1 and 2 hr rated assemblies respectively. The strips are compressed 50 percent and firmly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel floor units on both sides of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 767 Speed Strips

B. **Fill, Void or Cavity Material* —** Min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed or troweled on each side of wall to completely cover mineral wool forming material and to overlap 1/2 in. (13 mm) onto gypsum board and 2 in. (51 mm) onto spray-applied fire resistive material on the structural steel support.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-06-26

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MOSELEYARCHITECTS
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MOSELEYARCHITECTS.COM

ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

UL ASSEMBLIES

LS3.2

X6

XHBN - Joint Systems
XHBN7 - Joint Systems Certified for Canada

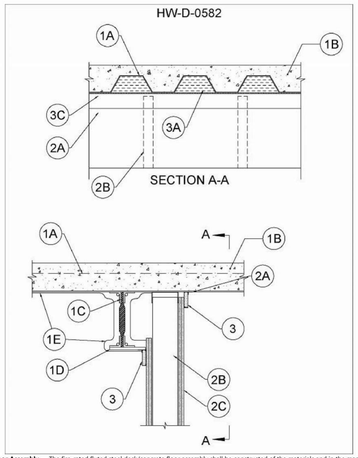
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0582

June 21, 2023

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width 3/4 in., 1 in., 1-1/2 in. and 2 In. (See Items 2 and 3)	FT Ratings — 1 and 2 Hr (See Item 2)
Class II or III Movement Capabilities — See Item 3	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating at Ambient — Less than 1 CFM/Lin Ft	FTH Ratings — 1 and 2 Hr (See Item 2)
L Rating at 400°F — Less than 1 CFM/Lin Ft	Nominal Joint Width — 19 mm, 25 mm, 38 mm and 51 mm (see Items 2 and 3)
	Class II or III Movement Capabilities — See Item 3
	L Rating at Ambient — Less than 1.55 L/s/m
	L Rating at 204°C — Less than 1.55 L/s/m



1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor And Floor Units* —** Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Structural Steel Support —** Steel beam, as specified in the individual D700 or D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support oriented parallel to and 1 to 7 in. (25 to 178 mm) from wall assembly.

D. **Steel Attachment Clips —** Z-shaped clips formed from 1 in. (25 mm) wide strips of min 20 ga galv steel. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom flange of the steel beam with 1-1/2 in. (38 mm) long upper and lower legs. Legs of clips fastened to bottom of beam (prior to application of spray-applied fire-resistive materials) with steel fasteners or welds. Clips spaced max 16 in. (406 mm) OC and extend to within 1/4 in. (6 mm) from the surface of the wall.

E. **Spray-Applied Fire Resistive Material* —** After installation of the steel attachment clips, structural steel support and the steel floor units to be sprayed with the min thickness of material specified in the individual D700 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam. In addition, the flutes of the steel floor units immediately above the wall are to be filled with material to the full thickness of the wall (see Item 3B for alternate). The remainder of the steel floor units shall be sprayed as specified in the individual D700 design.
ISOLATEX INTERNATIONAL — Type 300

GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY

1A. **Roof Assembly — (Not Shown) —** As an alternate to the floor assembly, a fire-rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 or P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The roof assembly shall include the following construction features:
A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation —** Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the roof deck.

C. **Spray-Applied Fire Resistive Material* —** After installation of the steel attachment clips, structural steel support and the steel deck to be sprayed with the min thickness of material specified in the individual P700 or P900 Series Design. The flutes of the steel deck are to be filled with material across the entire top flange of the steel beam. In addition, the flutes of the steel deck immediately above the wall are to be filled with material to the full thickness of the wall (see Item 3B for alternate). The remainder of the steel floor units shall be sprayed when specified in the individual P700 design.
ISOLATEX INTERNATIONAL — Type 300

GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY

2. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of min No. 20 gauge galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with flanges that are min 1 in. (25 mm) longer than max extended joint width. For max ¼ in. nominal joint width, the non-slotted (3-1/4 in. or 83 mm deep) ceiling runners are provided with a fill, void or cavity material and are described in Item 3A. Ceiling runner installed perpendicular to direction of the fluted steel deck and secured through the spray-applied fire resistive material to steel deck valleys with steel masonry fasteners spaced max 24 in. (610 mm) OC or direct to steel fluted floor units where spray is not required.

A.1. **Light Gauge Framing* — Slotted Ceiling Track —** (Not Shown) - As an alternate to the Item 2A, a ceiling track consisting of galv steel channel with slotted flanges may be used when Item 3A fill material is utilized. Slotted ceiling track sized to accommodate steel studs (Item 2B). Legs are to be min 1/4 in. (6 mm) longer than the maximum joint width. Attached to steel deck with steel fasteners or welds spaced max 24 in. (610 mm) OC.
CEMCO, LLC — CST, CST325

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

B. **Studs —** Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) on center. Studs cut 1-1/4 to 2 in. (32 to 51 mm) less in length than assembly height with bottom nesting in and secured to floor runner. Steel studs nested in non-slotted ceiling runner without attachment.

B1. **Framing Members - Steel Studs* —** In lieu of Item 2B - Proprietary channel shaped studs, 3-5/8 in. (92 mm) wide spaced a max of 24 in. (610 mm) OC. Studs to be cut 1-1/4 to 2 in. (32 to 51 mm) less than the assembly height with bottom nesting in and secured to floor runner. For direct attachment of gypsum board only. Steel studs installed in non-slotted ceiling runner without attachment.
CEMCO, LLC — ViperStud™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — ViperStud™

C. **Gypsum Board* —** Gypsum board sheets installed to a min total 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness on each side of wall for 1 and 2 hr fire rated assemblies, respectively. Gypsum board to extend min 3 in. (76 mm) above the bottom of Z clips on side of wall adjacent to beam. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory except that a max 2 in. (51 mm) gap shall be maintained between the top of the gypsum board and the bottom of the spray-applied fire resistive material on steel floor or roof assembly on the full height wall side. The screws attaching the gypsum board to the studs along the top of the wall shall be located 1 to 3-1/2 in. (25 to 89 mm) below the bottom of the ceiling runner. No gypsum board attachment screws shall be driven into the ceiling runner.
The hourly rating of the joint system is equal to the lesser of the hourly ratings of the floor/roof-ceiling assembly and the wall assembly.

3. **Joint System — Max separation between bottom of spray-applied fire resistive material on steel floor or roof unit and top of wall (at time of installation of joint system) is 3/4 in. (19 mm), 1 in. (25 mm), 1-1/2 in. (38 mm) or 2 in. (51 mm). The joint system is designed to accommodate a max 80 percent compression and or 30 percent extension from its installed width when Item 3A is used. See Table 1 for movement for Joints outlined in Items 3C, C1 and C2.**
A. **Fill, Void or Cavity Material* — Applies to 3/4 in. (19 mm) nominal joint width.** Min. 25 ga composite steel angle with one 5/8 in. (16 mm) leg and one 2-1/2 in (64 mm) leg with a 5/8 in. (16 mm) strip of intumescent strip affixed along the inside 2-1/2 in (64 mm) leg. Steel angle is friction fit between the top web of the ceiling runner and the fluted steel deck on the full height gypsum board side only.
CEMCO, LLC — DDA (Deflection Drift Angle)

B. **Packing Material —** Min 4 pcf (64 kg/m^3) mineral wool batt insulation cut to the shape of the fluted deck, approx 33 percent larger than the height of the flutes and compressed into the fluted area of the steel floor or roof deck above the ceiling channel. The forming material shall be installed to extend over the full thickness of the wall and to outer edge of FireRip (when used). As an option, the spray-applied fire resistive material described in Item 1 can be used in place of the packing material.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Safing Board

ROCKWOOL MALAYSIA SDN BHD — SAFE

ROCKWOOL — SAFE

THERMAFIBER INC — SAF

B1. **Forming Material*-Plugs —** (Not Shown) As an alternate to the forming material (Item 3B), mineral wool plugs preformed to the shape of the fluted floor units or roof deck, may be used within the flutes. Plugs shall be friction fitted to completely fill the flutes and extend to full thickness of wall or to outer edges of FireRip (when used).
ROCK WOOL MANUFACTURING CO — Delta Deck Plugs

C. **Fill, Void or Cavity Material* —** For nom 1 in. (25 mm) or 2 in. (51 mm) joints, a nom 20 gauge steel angle encased on 3 sides over a nom 2-3/4 in. (70 mm) wide layer of 5/8 in. (16 mm) type X gypsum board. Angle to be secured to steel deck with steel masonry anchors spaced a max 24 in. (610 mm). Face of steel angle to be in contact with gypsum board on both sides of wall. Butt joints in FireRip to be offset min 12 in. (305 mm) on opposite sides of wall. At beam side of wall, the FireRip is to rest against the gypsum board on wall and be secured to steel attachment clips through the Item 3D gypsum board, with steel fasteners spaced 16 in. (406 mm) on center and of sufficient length to penetrate min ½ in. (13 mm) into the steel attachment clips.

CEMCO, LLC — FireRip-2

C1. **Fill, Void or Cavity Material* -** For nom 1-1/2 in. (38 mm) joints, a nom 20 gauge steel angle encased on 3 sides over a 3-3/4 in. (95 mm) wide layer of 5/8 in. (16 mm) Type X gypsum board. Angle to be secured to steel deck with steel masonry anchors spaced a max 24 in. (610 mm). Face of steel angle to be in contact with gypsum board on both sides of wall. Butt joints in FireRip to be offset min 12 in. (305 mm) on opposite sides of wall. At beam side of wall, the FireRip is to rest against the gypsum board on wall and be secured to steel attachment clips through the Item 3D gypsum board, with steel fasteners spaced 16 in. (406 mm) on center and of sufficient length to penetrate min ½ in. (13 mm) into the steel attachment clips.

CEMCO, LLC – FireRip-3

C2. **Fill, Void or Cavity Material* -** For nom 2 in. (51 mm) joints, a nom 20 gauge steel angle encased on 3 sides over a 4-3/4 in. (121 mm) wide layer of 5/8 in. (16mm) Type X gypsum board. Angle to be secured to steel deck with steel masonry anchors spaced a max 24 in. (610 mm). Face of steel angle to be in contact with gypsum board on both sides of wall. Butt joints in FireRip to be offset min 12 in. (305 mm) on opposite sides of wall. At beam side of wall, the FireRip is to rest against the gypsum board on wall and be secured to steel attachment clips through the Item 3D gypsum board, with steel fasteners spaced 16 in. (406 mm) on center and of sufficient length to penetrate min ½ in. (13 mm) into the steel attachment clips.

CEMCO, LLC – FireRip -4

Table 1

Model	Nominal Joint Size, in (mm)	Cycling Movement, %	
FireRip-2	1 (25)	Compression	100
		Extension	100
	2 (51)	Compression	100
		Extension	0
FireRip-3	1-1/2 (38)	Compression	100
		Extension	100
FireRip-4	2 (51)	Compression	100
		Extension	50

D. **Gypsum Board* —** Gypsum board sheets installed on underside of steel attachment clips (Item 1D) to a min total 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness for 1 and 2 hr fire rated assemblies, respectively. Gypsum boards installed to completely cover the gap between steel beam and to within ¼ in. (6 mm) of wall and secured to each steel attachment clips with a minimum of two steel drywall screws approximately 1 to 2 in. (25 to 51 mm) from each end of the clip.

D1. **Gypsum Board* — Not applicable when Items 3C, C1 and C2 are used.** Not shown as an alternate to D. Gypsum board Nom 3/8 in. (10 mm) diamond mesh expanded steel rib lath having a nom weight of 3.4 lb/yd^2 (1.8 kg/m^2) shall be installed over and attached to the steel attachment clip bars or channels (Item 1D) to completely cover the exposed area from the flange tip of the steel beam to the end of the bar/channel framing extending beyond the wall surface. The lath shall be secured with steel fasteners or tie wire and shall be fully covered with spray applied fire resistive material (Item 1E).

E. **Fill, Void or Cavity Material* —** (Not Shown) When item 3A is utilized, a min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed or brushed on one side of the joint system, completely covering item 3B mineral wool forming material of the joint system and overlapping a min of 1/2 in. (13 mm) onto the steel deck and item 3A DDA on one side of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP672 Firestop Spray or CFS-SP WB. Firestop Joint Spray

SPECIFIED TECHNOLOGIES INC — SpecSeal AS200 Elastomeric Spray

UNITED STATES GYPSUM CO — Type AS

F. **Fill, Void or Cavity Material*** (Not Shown) – Butt joints in the FireRip to be sealed with a min 1/4 in. (6 mm) bead of sealant. In addition, sealant shall be used to seal any voids and dimples within the fluted steel deck and at the beam shelf on both sides of wall to maintain L Ratings.
UNITED STATES GYPSUM CO – Type AS

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-06-21

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ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

UL ASSEMBLIES

LS3.3

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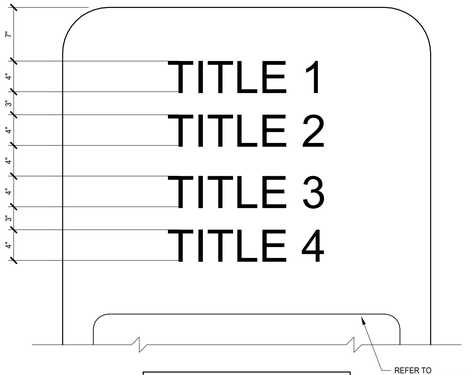
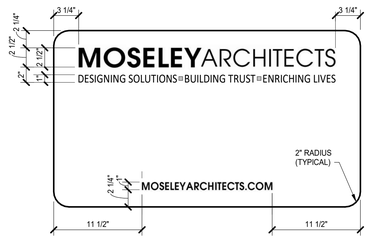
J I H G F E D C B A

1 2 3 4 5 6 7 8 9 10



TEXT LAYOUT ELEVATION

1 1/2" = 1'-0"



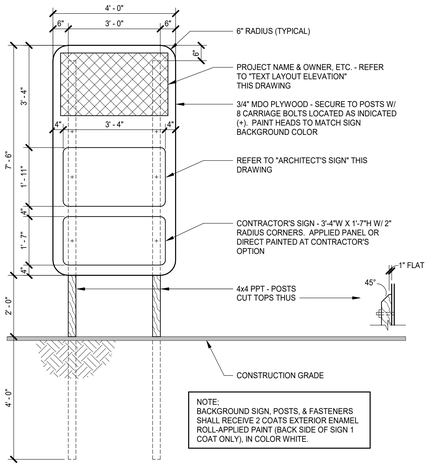
SIZE: 1'-11" VERTICAL x 3'-4" HORIZONTAL

NOTES:
"MOSELEY" TEXT IN LOGO AND WEB ADDRESS IS PMS 485. BULLETS ARE PMS 485, ALL OTHER TEXT AND BORDER IS PMS 432. BACKGROUND IS WHITE.

FONT FOR "DESIGNING SOLUTIONS BUILDING TRUST ENRICHING LIVES" TEXT IS CALIBRI, ALL OTHER TEXT IS AVANTGARDE FONT.

ARCHITECT'S SIGN

1 1/2" = 1'-0"



PROJECT SIGN ELEVATION

1/2" = 1'-0"

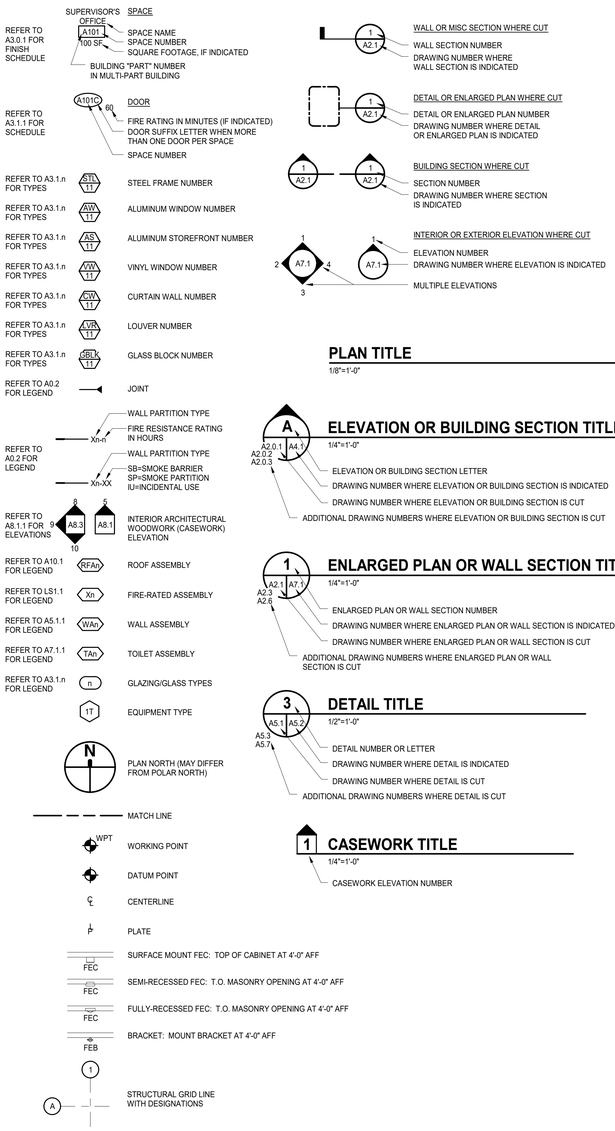
ARCHITECTURAL ABBREVIATIONS

A-PT	ACCENT PAINT
ABS	AIR BARRIER SYSTEM
ABV	ABOVE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ACW	ALUMINUM CLAD WINDOW
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APC	ARCHITECTURAL PRECAST CONCRETE
ARC	ABUSE RESISTANT COATING
AS	ALUMINUM STOREFRONT
AUTO	AUTOMATIC
AVG	AVERAGE
AW	ALUMINUM WINDOW
AWC	ACOUSTICAL WALL COVERING
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BF	BARRIER FREE (ADA or A117.1)
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
BUR	BUILT-UP ROOF
C	CARPET
C-TILE	CARPET TILE
CAB	CABINET
CB	CHALKBOARD
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CFSF-NS	COLD FORMED STEEL FRAMING, NON-STRUCTURAL
CFSF-S	COLD FORMED STEEL FRAMING, STRUCTURAL
CG	CORNER GUARD
CI	CONTINUOUS INSULATION
CIPC	CAST IN PLACE CONCRETE
CJ	CONTROL JOINT
CL	CLOSET
CLG	CEILING
CLR	CLEAR
CM	CENTIMETER
CMBD	CEMENT BOARD
CMU	CONCRETE MASONRY UNIT
CMU-A	CONCRETE MASONRY UNIT - ACOUSTICAL
CMU-GF	CONCRETE MASONRY UNIT - GROUND FACE
CMU-GLZ	CONCRETE MASONRY UNIT - GLAZED
CMU-SPLF	CONCRETE MASONRY UNIT - SPLIT FACE
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONC-LH	CONCRETE WITH LIQUID HARDENER/SEALER
CONC-PMT	CONCRETE WITH PIGMENT
CONC-POL	CONCRETE - POLISHED
CONC-SLR	CONCRETE WITH CURE & SEAL
CONC-ST	CONCRETE WITH STAIN
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CSMU	CAST STONE MASONRY UNIT
CT	CERAMIC TILE
CTSK	COUNTERSINK, COUNTERSUNK
CU FT	CUBIC FEET / FOOT
CUST	CUSTODIAN / CUSTODIAL
CW	ALUMINUM CURTAIN WALL
CWFD	CEMENTITIOUS WOOD FIBER DECK
D	DEPTH/DEEP
DBL	DOUBLE
DEMO	DEMOLITION
DETE	DETENTION
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DHM	DETENTION HOLLOW METAL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DL	DOOR LOUVER
DN	DOWN
DP	DAMPPROOFING
DR	DISPLAY RAIL
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
EA	EACH
EF	EXHAUST FAN
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAS	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EPS	EXPANDED POLYSTYRENE
EPX	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EVCT	ENHANCED VINYL COMPOSITION TILE
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXPC	EXPOSED CONSTRUCTION
EXT	EXTERIOR
FAAF	FLUID APPLIED ATHLETIC FLOORING
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FGL	FIBERGLASS
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
FIN	FINISHED
FLR	FLOOR
FLRG	FLOORING
FO	FACE OF
FRM	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GYPSUM BOARD
GB-AR	GYPSUM BOARD - ABUSE RESISTANT
GB-IR	GYPSUM BOARD - IMPACT RESISTANT
GB-S	GYPSUM BOARD - SECURITY
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS, GLAZING
GL-BLK	GLASS BLOCK
GPM	GALLONS PER MINUTE
GRT	GROUT
GSFT	GLAZED STRUCTURAL FACING TILE
GT	GLASS TILE
GWT	GLAZED WALL TILE
GYP	GYPSUM
H	HIGH
HB	HOSE BIBB
HBD	HARDBOARD
HDC	HOLD DOWN CLIPS
HDNR	HARDENER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATINGS
HPFP	HIGH PERFORMANCE FLOOR PAINT
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCH, INCHES
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INST	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
IRWC	IMPACT RESISTANT WALL COVERING
IWB	INTERACTIVE WHITE BOARD
JAN	JANITOR
JCT	JUNCTION
JT	JOINT
L	LENGTH/LONG
LAB	LABORATORY
LAHJ	LOCAL AUTHORITY HAVING JURISDICTION
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LIN	LINOLEUM
LKR	LOCKER
LMC	LINEAR METAL CEILING
LPS	LAMINATE PANEL SYSTEM
LT	LIGHT
LVR	LOUVER
M	METER
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MCM	METAL COMPOSITE MATERIAL
MCP	METAL CEILING PANEL
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MIF	MULTICOLOR INTERIOR FINISHING
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOLDING
MO	MASONRY OPENING
MPS	MANUAL PROJECTION SCREEN
MR	MAP RAIL
MT	MOUNT
MTD	MOUNTED
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPNG	OPENING
OPP HD	OPPOSITE HAND
OVHD	OVERHEAD
P-TILE	PORCELAIN TILE
PC	PRECAST
PERF	PERFORATED, PERFORATION(S)
PERIM	PERIMETER
PIP	POURED IN PLACE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLWD	PLASTIC LAMINATE WOOD
PLYWD	PLYWOOD
PNL	PANEL, PANELING
POLY	POLYETHYLENE
PPS	POWER PROJECTION SCREEN
PPT	PRESSURE- OR PRESERVATIVE-TREATED
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREP	PREPARE / PREPARATION
PS	PROJECTION SCREEN
PSB	PENCIL SHARPENER BLOCK
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTN	PARTITION
PTS	PNEUMATIC TUBE SYSTEM
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PVWC	PERFORATED VINYL WALL COVERING
QSM	QUARTZ SURFACING MATERIAL
QT	QUARRY TILE
QTY	QUANTITY
R	RISER, RADIUS
R/W	RIGHT OF WAY
RAD	RADIUS
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REFG	REFRIGERATOR
REINF	REINFORCING, REINFORCE(D)
REM	RECESSED ENTRY MAT
REQ'D	REQUIRED
RES	RESINOUS FLOORING
RFT	RUBBER FLOOR TILE
RH	RIGHT HAND
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
RSF	RUBBER SHEET FLOORING
RSR	RESILIENT STAIR RISER
RST	RESILIENT STAIR TREAD
RT	RIGHT
RTU	ROOFTOP UNIT
SAB	SOUND ATTENUATION BLANKET
SC-PLK	SECURITY CEILING PLANK
SC-PNL	SECURITY CEILING PANEL
SCH	SCHEDULE
SF	SQUARE FEET / FOOT
SFRM	SPRAYED FIRE RESISTANT MATERIAL
SHM	SECURITY HOLLOW METAL
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION
SPF	SPRAYED POLYURETHANE FOAM
SPR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FEET / FOOT
SRD	SECONDARY ROOF DRAIN
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STREET
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SWM	SECURITY WOVEN MESH / WOVEN ROD
SYM	SYMMETRICAL
T	TREAD
T&G	TONGUE & GROOVE
T.O.	TOP OF
TB	TACKBOARD
TCF	TEXTILE COMPOSITE FLOORING
TEL	TELEPHONE
TERR-C	TERRAZZO CEMENTITIOUS
TERR-E	TERRAZZO EPOXY
TERR-R	TERRAZZO RUBBERIZED
THHD	THRESHOLD
THK	THICKNESS, THICK
TOS	TOP OF STEEL
TOW	TOP OF WALL
TS	TACK STRIP
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED (INDICATED) OTHERWISE
VAT	VINYL ASBESTOS TILE
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VDB	VISUAL DISPLAY BOARD
VERT	VERTICAL
VEST	VESTIBULE
VFCT	VINYL FREE COMPOSITION TILE
VFWC	VINYL FREE WALLCOVERING
VR	VAPOR RETARDER
VT	VINYL TILE
VTR	VENT THROUGH ROOF
VW	VINYL WINDOW
VWC	VINYL WALL COVERING
W	WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCP	WOOD CEILING PANEL
WD	WOOD
WDW	WINDOW
WP	WATERPROOFING
WPT	WORKING POINT
WSCT	WAINSCOT
WSF	WOOD SPORTS FLOORING
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XPS	EXTRUDED POLYSTYRENE

KEYNOTES

1. KEYNOTES ARE GENERALLY ASSOCIATED WITH A SERIES OF DRAWINGS (e.g., A3.2.n, A5.1.n); THEREFORE KEYNOTE NUMBERS FROM SERIES TO SERIES WILL VARY (i.e., KEYNOTE NO. 1 IN THE A3.2.n SERIES WILL BE DIFFERENT FROM KEYNOTE NO. 1 IN THE A5.1.n SERIES).

ARCHITECTURAL GRAPHIC SYMBOL LEGEND



ARCHITECTURAL 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. ELEMENTS THAT ARE IDENTIFIED BY OTHER DISCIPLINES (e.g., CIVIL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL, ELECTRICAL) ELSEWHERE WITHIN THE ARCHITECTURAL SERIES OF DRAWINGS AND/OR SPECIFICATIONS, OR IDENTIFIED OR COVERED BY DEFAULTS (e.g., SIZES, THICKNESS, SPACING, MATERIALS) IN THE SPECIFICATIONS MAY NOT BE ANNOTATED (NOTE OR KEYNOTED) ON THESE DRAWINGS.

C. ELEMENTS IDENTIFIED IN "LEGENDS" AND/OR "GENERAL NOTES" MAY NOT BE NOTED IN DETAILS, OR SECTIONS, AS THESE ELEMENTS ARE IDENTIFIED IN THE LEGENDS (e.g. FACE BRICK, CMU, WINDOWS)

D. REFER TO "ASSEMBLIES" FOR MATERIALS AND COMPONENTS THAT MAKE UP THAT PARTICULAR ASSEMBLY (e.g., EXTERIOR WALL ASSEMBLIES, ROOF ASSEMBLIES, AND FIRE-RATED ASSEMBLIES). ONCE A PARTICULAR ASSEMBLY HAS BEEN IDENTIFIED ON ONE DRAWING, THAT SAME ASSEMBLY GRAPHIC SHALL APPLY TO ALL OTHER SIMILAR LOCATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE THAT SAME ASSEMBLY AT THE SIMILAR LOCATION WHETHER THE ASSEMBLY GRAPHIC SYMBOL IS SHOWN OR NOT.

E. VERIFY ALL DIMENSIONS, INCLUDING DIMENSIONS ON STRUCTURAL DRAWINGS AND OTHER ARCHITECTURAL DRAWINGS. IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.

F. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL EQUIPMENT INDICATED TO BE MOUNTED OR OTHERWISE REQUIRED TO BE MOUNTED TO THE FLOOR. WHERE PADS ARE NOT SHOWN, PROVIDE 6" THICK CONCRETE PADS W/ 3/4" CHAMFERED EDGES (ALL SIDES). REINFORCE WITH MESH EQUIVALENT TO FLOOR SLAB REINFORCING REQUIREMENTS.

ARCHITECTURAL MATERIALS LEGEND

- EARTH
- POROUS FILL
- CONCRETE
- FACE BRICK
- SPLIT-FACE BLOCK
- CONCRETE MASONRY UNIT
- GROUTED SOLID CONCRETE MASONRY UNIT

NOTE: PROVIDE 100% SOLID, PLANT-CAST UNITS WHERE CORE HOLES WOULD BE VISIBLE WITHIN FINISH SPACE (E.G., WINDOW SILLS)

- ARCHITECTURAL PRECAST CONCRETE
- CAST STONE MASONRY
- RIGID INSULATION
- BATT INSULATION
- SPRAYED POLYURETHANE FOAM
- WOOD SHIM
- WOOD BLOCKING - CONTINUOUS
- FINISHED WOOD
- PLYWOOD
- GYPSUM BOARD / SHEATHING
- STONE

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ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS

DATE	DESCRIPTION

GENERAL ARCHITECTURAL INFORMATION

A0.1

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TERMINATION GENERAL NOTES

A. AT FIRE-, SMOKE-, AND ACOUSTICALLY RATED WALLS: SEAL ALL NON-OBSTRUCTED 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-OBSTRUCTED 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). 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 ENCASEMENT TO WALL AND SEAL ENCASEMENT TO DECK IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.

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 CFSF PANEL PARTITIONS: P2 UNLESS INDICATED OTHERWISE.

D. THE TERMS "WALL" AND "PARTITION" MAY BE USED INTERCHANGEABLY THROUGHOUT THE CONTRACT DOCUMENTS.

E. EXTEND ALL FIRE-, SMOKE-, INCIDENTAL USE-, AND ACOUSTICAL-RATED WALLS/PARTITIONS TO UNDERSIDE OF FLOOR DECK, ROOF DECK, STRUCTURAL ELEMENT ENCASEMENT OR SOLID CAP ABOVE.

- SEAL AND TERMINATE IN ACCORDANCE WITH JOINT SYSTEM TESTED ASSEMBLIES FOR RESPECTIVE TYPE OF WALLS/PARTITIONS.

F. PARTITIONS THAT DO NOT EXTEND TO UNDERSIDE OF DECK OR CAP ABOVE:

- EXTEND 4 INCHES MINIMUM ABOVE HIGHEST ADJACENT FINISH CEILING UNLESS INDICATED OTHERWISE.

G. DO NOT CONNECT TIES, ANCHORS, OR REINFORCING TO SINGLE CANTILEVERED FIRE WALL OR BETWEEN DOUBLE FIRE WALLS.

H. SEAL AROUND ALL PENETRATIONS.

I. 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.

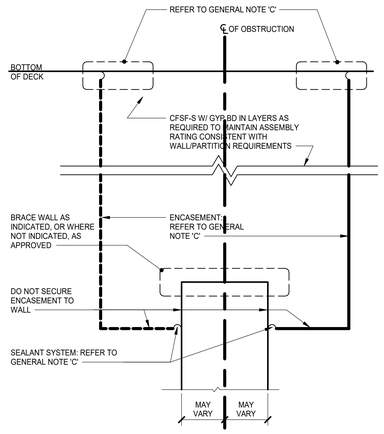
J. WALL/PARTITION TYPES DO NOT ADDRESS WALL FINISHES. REFER TO FINISH SCHEDULE.

K. 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 P5 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.

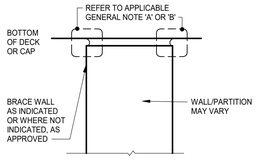
L. PROVIDE BACKER BOARD/UNIT OF SAME THICKNESS INDICATED IN LIEU OF GYPSUM BOARD PANEL AT PORTIONS OF WALLS/PARTITIONS TO RECEIVE TILE.

TERMINATIONS



HEAD-OF-WALL TERMINATION @ OBSTRUCTION

OBSTRUCTION MAY VARY (BEAM, JOIST, GIRDER, CHANNEL, DUCTWORK, PIPING)



HEAD-OF-WALL TERMINATION @ NON-OBSTRUCTION

WALL JOINT GENERAL NOTES

A. LOCATE CONTROL JOINTS IN INTERIOR AND EXTERIOR WALLS AS INDICATED ON DRAWINGS.

B. JOINTS ARE INDICATED THUS ◁ ON PLANS AND ELEVATIONS.

C. WALLS AND JOINT TYPES/DETAILS ARE DIAGRAMMATIC. ADJUST JOINT TYPES/DETAILS IN ACCORDANCE WITH ACTUAL FIELD CONDITIONS.

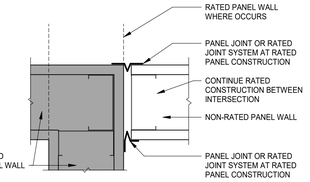
D. PROVIDE TESTED JOINT ASSEMBLIES AT FIRE-, SMOKE-, AND ACOUSTICAL-RATED WALLS.

E. WHEN USED HEREIN "RATED" MEANS: FIRE, SMOKE, AND/OR ACOUSTICAL.

F. REFER TO SPECIFICATIONS FOR ADDITIONAL WALL JOINT REQUIREMENTS.

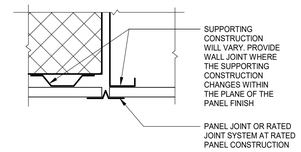
WALL JOINTS

RATED/ NON-RATED CFSF/ PANELS

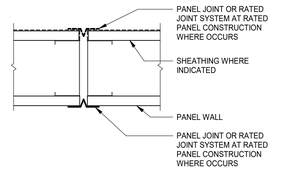


NOTE:
RATED WALL SHADED FOR CLARITY THIS DETAIL

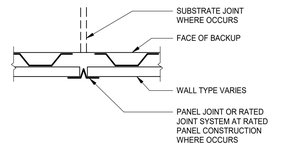
CMU/ CFSF



CFSF/ PANELS



PANEL



PANEL WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
P1-1	X1	STC 50	5 1/2" — 5/8" TYPE X GYPSUM WALL BOARD; 5/8" GYPSUM WALL BOARD; 3 5/8" CFSF-NS; 3 1/2" SAB
P1	--	STC 50	5 1/2" — 5/8" GYPSUM WALL BOARD; 5/8" GYPSUM WALL BOARD; 3 5/8" CFSF-NS; 3 1/2" SAB
P2	--	STC 45	4 7/8" — 5/8" GYPSUM WALL BOARD; 3 5/8" CFSF-NS; 3 1/2" SAB
P3	--	STC 50	4 7/8" — 5/8" GYPSUM WALL BOARD; 3 5/8" CFSF-NS
P4	--	STC 55	6 5/8" — 5/8" GYPSUM WALL BOARD; 1/2" RESILIENT CHANNEL; 3 5/8" CFSF-NS; 3 1/2"SAB
P5 P5A	--	NO SOUND BATTS @ 5A	4 1/4" — 5/8" GYPSUM WALL BOARD; 3 5/8" CFSF-NS; 3 1/2" SAB
P5-1	X2	--	4 1/4" — 5/8" GYPSUM WALL BOARD; 3 5/8" CFSF-NS; 3 1/2" SAB
P6 P6A		NO SOUND BATTS @ P6A	2 1/4" — 5/8" GYPSUM WALL BOARD; 1 5/8" CFSF-NS; 1 1/2" SAB
P7	--	--	6 5/8" — 5/8" GYPSUM WALL BOARD; 6" CFSF-NS
P8	--	--	1 1/2" — 5/8" GYPSUM WALL BOARD; 7/8" CFSF-NS FURRING; FACE OF WALL

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ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS

DATE	DESCRIPTION

WALL/PARTITION TYPES, WALL JOINTS AND TERMINATIONS

A0.2

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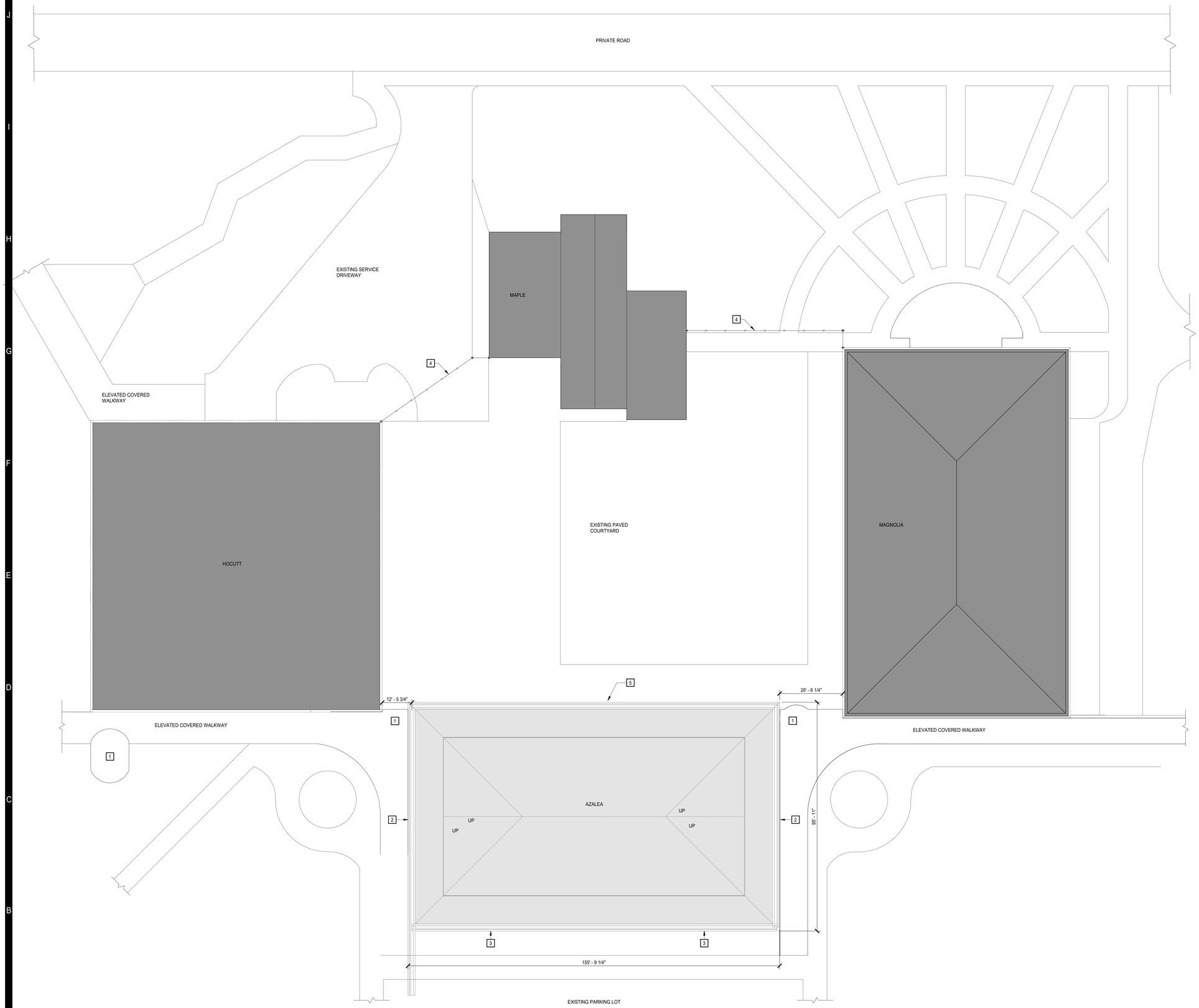

SITE PLAN GENERAL NOTES

A. EXTERIOR PAVING ARE EXISTING TO REMAIN.

ARCHITECTURAL SITE PLAN KEYNOTES

REPRESENTED BY [n]

1	EXISTING COVERED EXTERIOR STAIR
2	EXISTING ACCESSIBLE ENTRANCE
3	EXISTING ENTRANCE
4	EXISTING FENCING
5	ENTRANCE

SITE PLAN
1/16" = 1'-0"

1/8" = 1'-0"

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REVISIONS	
DATE	DESCRIPTION

SITE PLAN

A1.1

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DEMOLITION PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A1.2.n SERIES

1	REMOVE GARAGE DOOR
2	PROTECT EXISTING COLUMN WRAP
3	REMOVE DISPLAY CASE
4	REMOVE STORFRONT AND HAND OVER TO OWNER
5	REMOVE WALL ABOVE TO ACCOMODATE LOUVER AND LINTEL INSTALLATION; SALVAGE BRICK
6	EXISTING CEILING TO REMAIN

DEMOLITION PLAN LEGEND

APPLIES TO DRAWINGS A1.2.1 - A1.2.n

- EXISTING PARTITION/ WALL/ ITEM TO REMAIN
- REMOVE EXISTING PARTITION/WALL/ITEM
- REMOVE EXISTING WINDOW ASSEMBLY AND FRAMING, INCLUDING ANCHORS
- 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.
- REMOVE EXISTING FLOOR SLAB TO ACCOMODATE PLUMBING DEMOLITION AND WORK. REFER TO PLUMBING DEMOLITION AND PLUMBING FOUNDATION PLANS FOR ADDITIONAL INFORMATION

DEMOLITION PLAN GENERAL NOTES

A. DEMOLITION DRAWINGS OUTLINE IN GENERAL WHAT NEEDS TO BE REMOVED TO ACCOMPLISH THE RENOVATION WORK. THE WORK SHOWN IS DIAGRAMMATIC IN NATURE AND IS NOT INTENDED TO BE ALL INCLUSIVE. THE CONTRACTOR AND SUBCONTRACTORS ARE TO VERIFY EXISTING CONDITIONS AT THE SITE AND INCLUDE ALL WORK EVIDENT BY SITE INSPECTION, WHETHER OR NOT SHOWN IN THE DRAWINGS, TOACHIEVE THE DESIRED RESULTS INDICATED ON THE DOCUMENTS FOR THE WORK.

B. VERIFY ALL ASSEMBLIES TO BE REMOVED ARE NON-STRUCTURAL. NOTIFY THE ARCHITECT IN ADVANCE OF CUTTING, ALTERATION OR EXCAVATION, WHICH MAY AFFECT THE STRUCTURAL STABILITY OF ANY PORTION OF THE BUILDING.

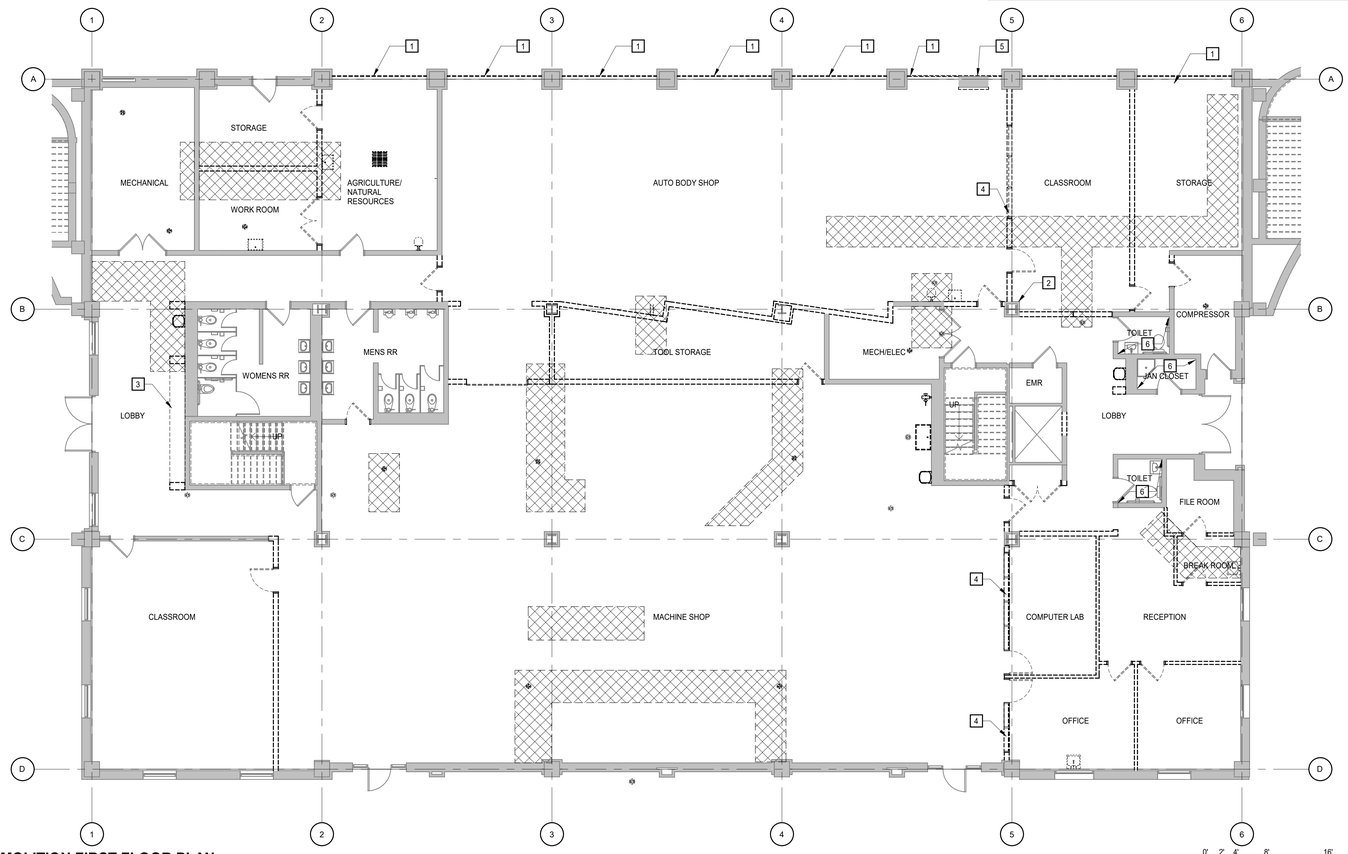
C. ACTUAL FIELD CONDITIONS THAT ARE CONCEALED BY EXISTING CONSTRUCTION MAY VARY FROM THOSE INDICATED. ALL WORK THAT RELATES TO, OR IS IN ANY WAY AFFECTED BY EXISTING CONDITIONS THAT VARY FROM THOSE INDICATED SHALL BE MODIFIED TO ACHIEVE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ACCORDING TO FIELD ASSESSMENTS AND MEASUREMENTS. REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH AFFECTED ASPECTS OF DEMOLITION OR CONSTRUCTION.

D. DAMAGE OCCURING DURING SCOPE OF WORK IS TO BE PATCHED, REPAIRED, AND FINISHED TO MATCH ADJACENT SIMILAR CONDITIONS.

E. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIRED.

F. REMOVE ALL EXISTING FINISH FLOORING.

G. REMOVE ALL EXISTING CEILINGS EXCEPT IN SPACES INDICATED BY KEYNOTE 6.



DEMOLITION FIRST FLOOR PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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DEMOLITION PLAN

A1.2

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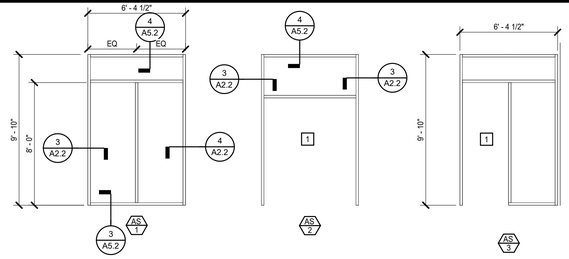
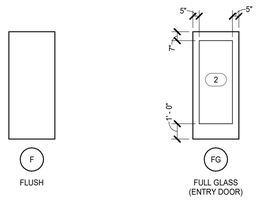
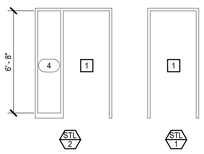


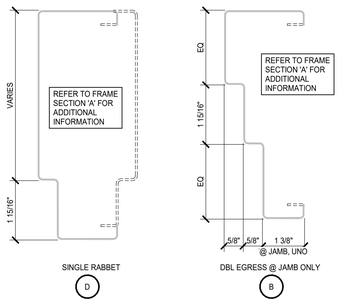
ALUMINUM STOREFRONT TYPES

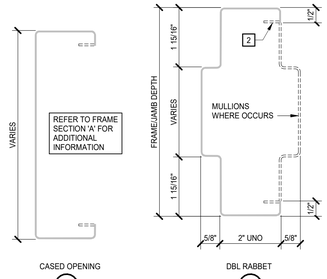


DOOR TYPES



STEEL FRAME TYPES

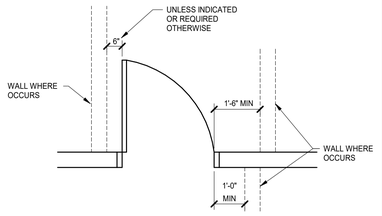




1. ALL FRAME/JAMB DEPTHS, OTHER THAN WRAP CONDITIONS, SHALL BE _____ UNO.
2. ALL FRAME/JAMB DEPTHS AT WRAP CONDITIONS SHALL BE SIZED TO SUIT PARTITION.
3. DOORS, PANELS, GLAZING, STOPS, AND OTHER FRAME INFILLS ARE NOT SHOWN IN FRAME SECTIONS AS THEY VARY - PROVIDE SAME WHERE INDICATED.

STEEL FRAME SECTIONS

NO SCALE



MANEUVERING CLEARANCE AT DOORS

NO SCALE

DOOR SCHEDULE

	DOOR		DOOR				FRAME								
NUMBER	TYPE	SIZE (NOMINAL)	MATL	LOUVER	UC	GLAZING TYPE	TYPE	SECTIONS	HEAD DETAIL	JAMB DETAIL	JAMB DETAIL	SILL DETAIL	GLAZING	HDWR	FIRE RATING	NOTES
100	FG	PR 3'-0"X7'-0"X1-3/4"	ALUM			2	AS-2	--		5/A2.2	5/A2.2		--			
101	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
105	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
106	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
107	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
108	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
108A	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--			
109	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
110	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-2	A	9/A2.2	9/A2.2	9/A2.2	--	4		20 MIN	
111	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-2	A	9/A2.2	9/A2.2	9/A2.2	--	4		20 MIN	
112	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-2	A	9/A2.2	9/A2.2	9/A2.2	--	4		20 MIN	
113	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-2	A	9/A2.2	9/A2.2	9/A2.2	--	4		20 MIN	
118	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--			
119A	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
119B	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
120A	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--			
120B	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
121	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
122	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
123	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
128	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	
128.1	FG	3'-0"X7'-0"X1-3/4"	ALUM			--	AS-3	--	4/A5.2	3/A2.2	4/A2.2		--			
129	F	3'-0"X7'-0"X1-3/4"	WD			--	STL-1	A	9/A2.2	9/A2.2	9/A2.2	--	--		20 MIN	

GLAZING TYPES

REPRESENTED BY n

1. 1/4" CLEAR
2. 1" TINTED INSULATING
3. NOT USED
4. MINIMUM 20 MINUTE CLEAR RATED GLASS TESTED IN ACCORDANCE WITH NFPA 257 OR UL 9 AND IN ACCORDANCE WITH THE HOSE STREAM TEST 716.6

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

DOOR, FRAME AND GLAZING TYPE KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A2.1

1	SIZE AS REQUIRED TO ACCOMMODATE DOOR, HARDWARE AND FRAME COMPONENTS
2	BACKBEND RETURN @ GB LOCATIONS ONLY.

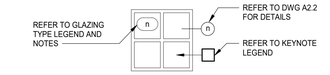
DOOR AND FRAME GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB AND SILL CONDITIONS REFER TO DRAWING A2.3

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).

GLAZING GENERAL NOTES



FLOOR PLAN KEYNOTES

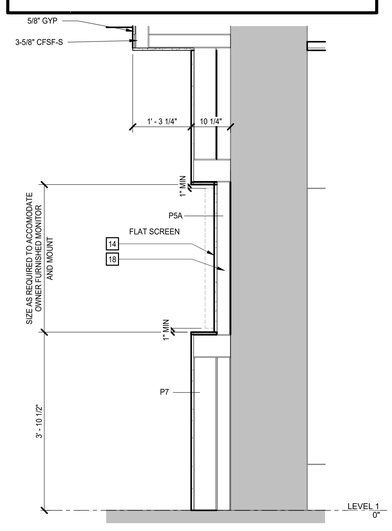
REPRESENTED BY n

APPLIES TO DRAWINGS A2.1-A2.2

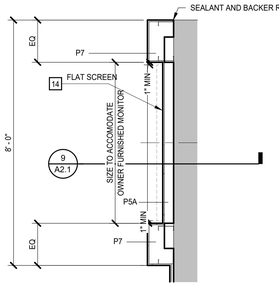
1	ALIGN FACE OF WALL
2	BARRIER FREE ACCESSIBLE FILTERED FUME HOOD WITH ACID STORAGE BASE CABINETS
13	FRY REGLET "J" TRIM - TERMINATION OF GYP
14	NIC EQUIPMENT
15	EXISTING EQUIPMENT PROVIDED BY OWNER
16	PATCH OPENINGS FROM REMOVAL OF DUCT WITH CMU SIZED TO MATCH EXISTING WALL
17	4'X12' PROJECTOR RATED WHITE BOARD
18	COORDINATE BLOCKING IN WALL FOR TV MOUNT

FLOOR PLAN GENERAL NOTES

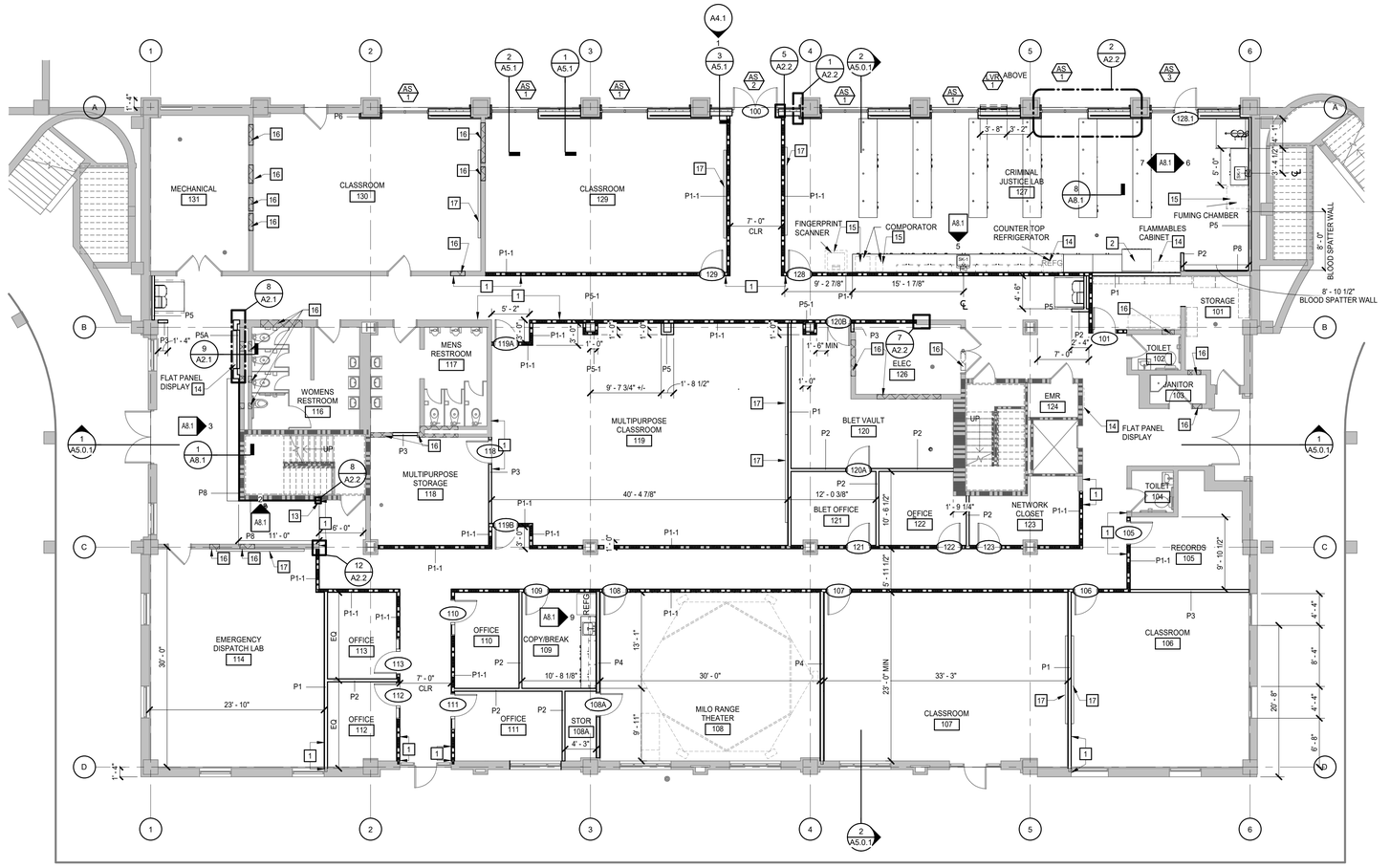
A. PROVIDE CMU INFILL IN EXISTING CMU WALLS WHERE OPENINGS OCCUR FROM REMOVED DUCTWORK AND UTILITIES.



9 A2.1 A2.1 **SECTION WALL RECESS**
3/4" = 1'-0"



8 A2.1 A2.1 **PLAN - WALL RECESS**
1/2" = 1'-0"



N **FIRST FLOOR PLAN**
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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PROJECT NO: 593101.2
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REVISIONS	
DATE	DESCRIPTION

FLOOR PLAN, DOOR SCHEDULE, GLAZING & FRAME TYPES

A2.1

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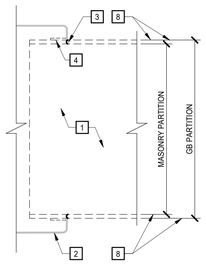
DOOR AND FRAME DETAIL KEYNOTES

REPRESENTED BY n

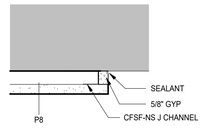
APPLIES TO DRAWINGS A2.1-A2.n

1	ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
2	REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
3	SEALANT, ALL SIDES - TOOL TO 90°.
4	BACKBEND RETURN @ GB LOCATIONS ONLY.
5	9/16" @ MAS; 1/2" @ GB.
6	1/4" @ JAMBS, UNO; DIMENSION @ HEAD & SILL VARIES.
7	BULLNOSE @ CMU JAMBS & SILLS.
8	0" @ GB LOCATIONS; 1/16" @ MAS LOCATIONS.

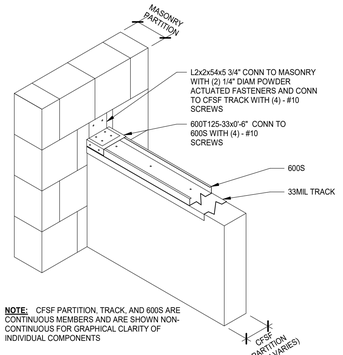
10 A2.2 INTERIOR BETWEEN THE JAMB - BUTTED HEAD/JAMB/SILL
6" = 1'-0"



9 A2.2 INTERIOR WRAP HEAD/JAMB/SILL
6" = 1'-0"

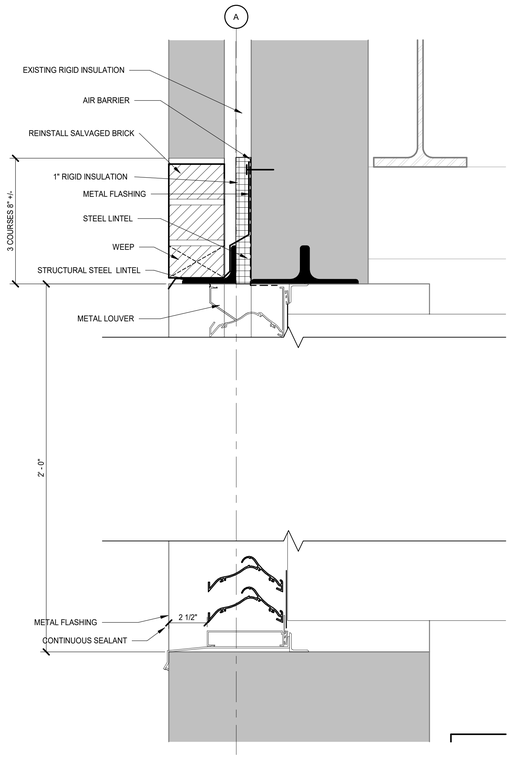


8 A2.1 A2.2 PLAN DETAIL
3" = 1'-0"

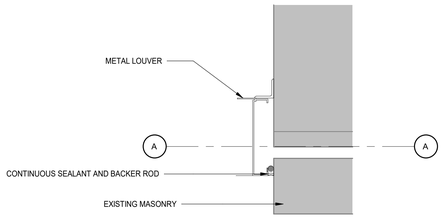


NOTE: CFSF PARTITION, TRACK, AND 600S ARE CONTINUOUS MEMBERS AND ARE SHOWN NON-CONTINUOUS FOR GRAPHICAL CLARITY OF INDIVIDUAL COMPONENTS

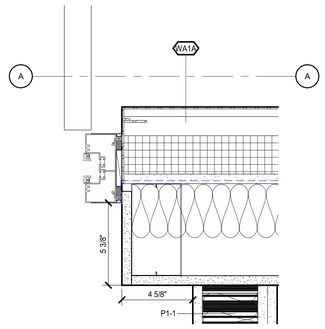
7 TYP A2.2 CFSF PARTITION TO MASONRY WALL
1" = 1'-0"



6 A4.1 A2.2 LOUVER
3" = 1'-0"



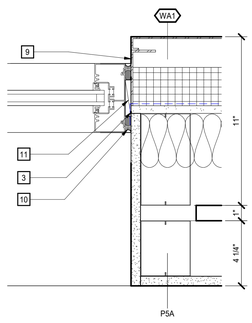
11 A4.1 A2.2 JAMB DETAIL
3" = 1'-0"



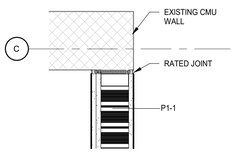
REFER TO 3/A2.2 FOR ADDITIONAL NOTES

5 A2.1 A2.2 JAMB DETAIL
3" = 1'-0"

4 A2.1 A2.2 JAMB DETAIL
3" = 1'-0"



3 A2.1 A2.2 JAMB DETAIL
3" = 1'-0"



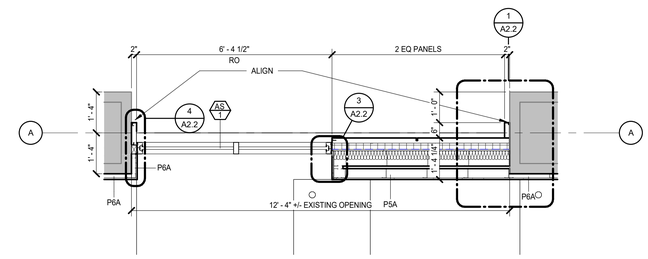
12 A2.1 A2.2 PLAN DETAIL
1 1/2" = 1'-0"

FLOOR PLAN KEYNOTES

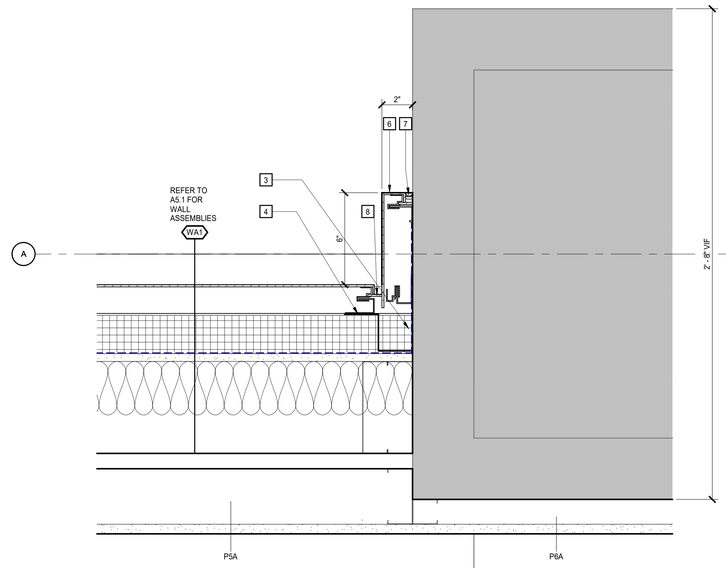
REPRESENTED BY n

APPLIES TO DRAWINGS A2.1-A2.2

3	AIR BARRIER
4	GALV 'Z' FURRING, 2 1/2" DEEP
6	MCM PANEL
7	CONTINUOUS SEALANT
8	MCM PANEL REVEAL
9	METAL PANEL JAMB TRIM
10	CONTINUOUS SEALANT AND BACKER ROD
11	SHIM
12	BLOCKING, AS REQUIRED



2 A2.1 A2.2 ENLARGED PLAN
1/2" = 1'-0"



1 A2.1 A2.2 PLAN DETAIL
3" = 1'-0"

1" = 1'-0" | 3" = 1'-0" | 1/2" = 1'-0"

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ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
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PLAN DETAILS

A2.2

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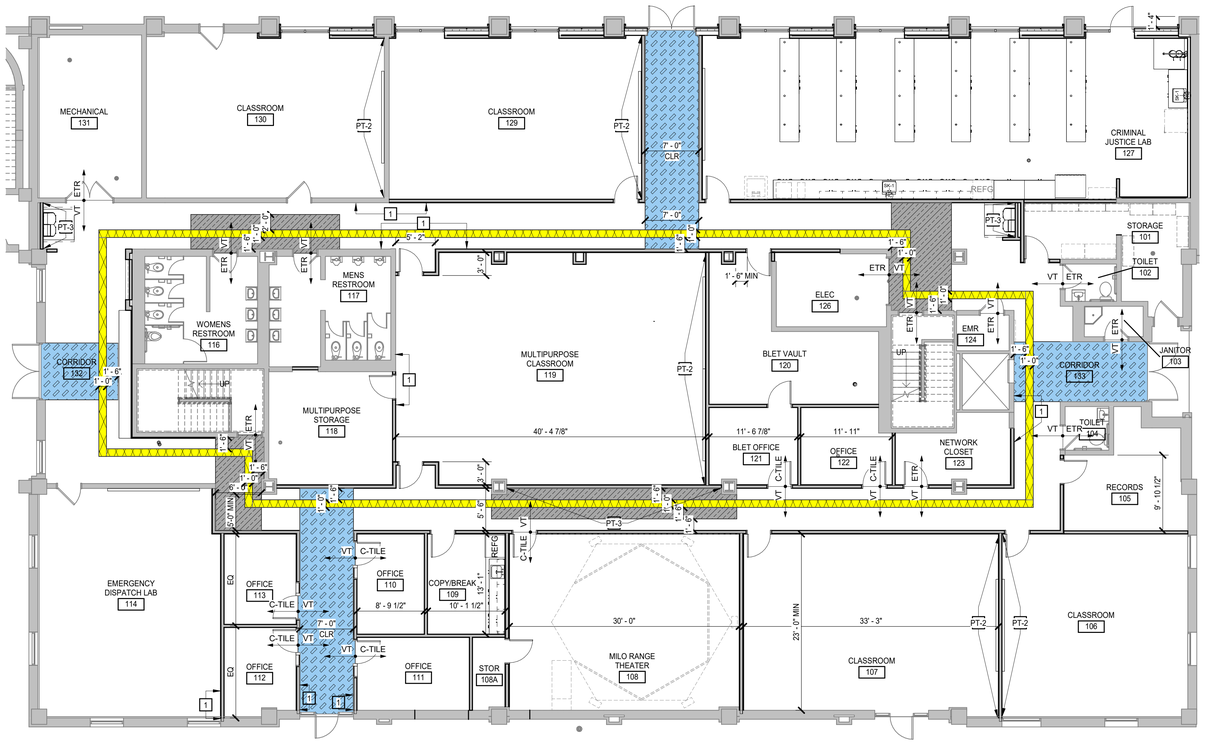

FIRST FLOOR FINISH PLAN

1/8" = 1'-0"

FINISH PLAN LEGEND

- FLOOR FINISH TRANSITION, CHANGE OF MATERIAL
- WALL FINISH EXTENTS
- CORNER GUARD
- C-TILE A
- C-TILE B
- CONC-POL
- CONC-SLR
- ETR
- RAF RFT
- REM
- RES
- LVT-A
- LVT-B1
- LVT-B2
- LVT-B3

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

FINISH SCHEDULE GENERAL NOTES

A. FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT SURFACE FINISH.

B. PROVIDE SAME FINISHES AS THE ADJACENT SPACE IN ALCOVES AND CONTINUOUS SPACES WITHOUT DESIGNATED SPACE NUMBERS.

C. CASEWORK FINISHES ARE NOT NOTED IN THE FINISH SCHEDULE. REFER TO CASEWORK ELEVATIONS AND SPECIFICATIONS FOR MATERIALS AND FINISHES.

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

E. BULKHEADS AND SOFFITS MAY NOT BE INDICATED IN FINISH SCHEDULES. REFER TO RCP DETAILS, AND OTHER DOCUMENTS FOR EXTENT.

F. PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR SLAB-ON-GRADE AND VERTICAL ELEMENT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION

G. REFER TO SPECIFICATIONS FOR INFORMATION ON FINISH FIRE CLASSIFICATION RATING..

FINISH SCHEDULE

Room Finish Key	NUMBER	NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	NOTES
CLASSRM	101	STORAGE	LVT	RB	PT	PT	PT	PT	ACP	
ETR	102	TOILET	ETR	ETR	ETR	ETR	ETR	ETR	ACP	
CORE	103	JANITOR	ETR	ETR	ETR	ETR	ETR	ETR	ACP	
ETR	104	TOILET	ETR	ETR	ETR	ETR	ETR	ETR	ACP	
CLASSRM	105	RECORDS	LVT	RB	PT	PT	PT	PT	ACP	
CLASSRM	106	CLASSROOM	LVT	RB	PT	PT	PT	PT	ACP	
CLASSRM	107	CLASSROOM	LVT	RB	PT	PT	PT	PT	ACP	
(none)	108	MILO RANGE THEATER	C-TILE-C	RB	PT	PT	PT	PT	ACP	
CLASSRM	108A	STOR	LVT	RB	PT	PT	PT	PT	ACP	
CLASSRM	109	COPY/BREAK	LVT	RB	PT	PT	PT	PT	ACP	
office	110	OFFICE	C-TILE-A	RB	PT	PT	PT	PT	ACP	
office	111	OFFICE	C-TILE-A	RB	PT	PT	PT	PT	ACP	
office	112	OFFICE	C-TILE-A	RB	PT	PT	PT	PT	ACP	
office	113	OFFICE	C-TILE-A	RB	PT	PT	PT	PT	ACP	
(none)	114	EMERGENCY DISPATCH LAB	C-TILE-C	RB	PT	PT	PT	PT	ACP	
ETR	116	WOMENS RESTROOM	ETR	ETR	ETR	ETR	ETR	ETR	ACP	
ETR	117	MENS RESTROOM	ETR	ETR	ETR	ETR	ETR	ETR	ACP	
CLASSRM	118	MULTIPURPOSE STORAGE	LVT	RB	PT	PT	PT	PT	ACP	
CLASSRM	119	MULTIPURPOSE CLASSROOM	LVT	RB	PT	PT	PT	PT	ACP	
CORE	120	BLET VAULT	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
office	121	BLET OFFICE	C-TILE-A	RB	PT	PT	PT	PT	ACP	
office	122	OFFICE	C-TILE-A	RB	PT	PT	PT	PT	ACP	
CORE	123	NETWORK CLOSET	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
CORE	124	EMR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
CORE	126	ELEC	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
(none)	127	CRIMINAL JUSTICE LAB	RSF	RSF/M5	ARC	ARC/IRWC	ARC/IRWC	ARC	ACP	
CLASSRM	129	CLASSROOM	LVT	RB	PT	PT	PT	PT	ACP	
CLASSRM	130	CLASSROOM	LVT	RB	PT	PT	PT	PT	ACP	
CORE	131	MECHANICAL	ETR	ETR	ETR	ETR	ETR	ETR	ACP	
(none)	132	CORRIDOR	LVT	RB	ARC	AWP-1/WC/WDP	ARC	ARC	ACP	
CORRIDOR	133	CORRIDOR	LVT	RB	ARC	ARC	ARC	ARC	ACP	
(none)	134	STAIR A								

INTERIOR FINISH LEGEND

SPECIFICATION	DESCRIPTION	MATERIAL	MANUFACTURER	PRODUCT - COLOR	NOTES
064023 ARCHITECTURAL WOODWORK					
	EB-1	EDGEBAND (USE W/ PLAM1)	CHARTER INDUSTRIES	TBD	
	EB-2	EDGEBAND (USE W/ PLAM2)	CHARTER INDUSTRIES	TBD	
	PLAM1	PLASTIC LAMINATE (CABINETS)	WILSONART	WHITE DRIFTWOOD 8200K-16	
	SSM	SOLID SURFACE	WILSONART	NIGHT STARS 9105CS	
081416 FLUSH WOOD DOORS					
	M1	WOOD DOORS	LAMBTON	TBD	
095100 CEILINGS					
	ACP	ACOUSTICAL CEILING PANEL	ARMSTRONG	ULTIMA 1910; SIZE - 24"X24", COLOR - WHITE	
096513 RESILIENT BASE AND ACCESORIES					
	M2	TRANSISTION STTRIP	TARKETT	TBD	
	RB	RESILIENT BASE	TARKETT	TBD	
096516 RESILIENT SHEET FLOORING					
	RSF	RESINOUS SHEET FLOORING	ZANDUR	STYLE: SOPHROS; COLOR: CYGNUS SF5002	
096519 RESILIENT TILE FLOORING					
	LVT-A	LUXURY VINYL FLOOR TILE	MILLIKEN	STYLE - RELIC; COLOR - HEIRLOOM	
	LVT-B1	LUXURY VINYL FLOOR TILE	MANNINGTON	STYLE: STRIDE; COLOR: BUZZY YELLOW C124	
	LVT-B2	LUXURY VINYL FLOOR TILE	MANNINGTON	STYLE: STRIDE; COLOR: MIDNIGHT TWINKLE C128	
	LVT-B3	LUXURY VINYL FLOOR TILE	MANNINGTON	STYLE: STRIDE; COLOR: LAVA ROCK C163	
	LVT-B4	LUXURY VINYL FLOOR TILE	MANNINGTON	STYLE: STRIDE; COLOR: MISTY MOUNTAIN C161	
096813 TILE CARPETING					
	C-TILE-A	CARPET TILE	EF CONTRACT	STYLE: SURFACE; COLOR/ASPECT SUR56	INSTALLATION : QUATER TURN
	C-TILE-B	CARPET TILE	TARKETT	STYLE: 2ND POWER II; COLOR: BALI BLUE 71616; SIZE: 24"X24"	
	C-TILE-C	CARPET TILE	JHJ KINETEX	STYLE: REFLECTION 1855; COLOR: REPLICA 3509	
097200 WALL COVERING					
	WC-1	GRAPHIC WALL COVERING	TO BE PROVIDED BY WCC	TO BE PROVIDED BY WCC	
097733 PREFINISHED WOOD PANELS-	INTERIOR				
	WDP-1	MATCH EXISTING WOOD DOORS	MATCH EXISTING WOOD DOORS	MATCH EXISTING WOOD DOORS	
98430 SOUND ABSORBING WALL UNITS					
	AWP-1	ACOUSTICAL WALL PANEL	TURF	PATTERN: SLAT S4-3-2.5; NRC .60	INSTALL HORIZONTALLY W/ Z-CLIPS
099100 PAINTING					
	PT-1	PAINT	PPG	FIELD PAINT	
	PT-2	PAINT	PPG	ACCENT BLUE PAINT	MATCH WAYNE COMMUNITY COLLEGE SCHOOL COLORS, PANTONE NUMBER TO BE PROVIDED BY WCC
	PT-3	PAINT	PPG	ACCENT YELLOW PAINT	MATCH WAYNE COMMUNITY COLLEGE SCHOOL COLORS, PANTONE NUMBER TO BE PROVIDED BY WCC
101400 SIGNAGE					
	M3-A	INTERIOR SIGNAGE - BACKGROUND	SCOTT SIGNS	GUNMETAL GRAY	
	M3-B	INTERIOR SIGNAGE - TEXT	SCOTT SIGNS	WHITE	
102600 WALL & DOOR PROTECTION					
	IRWC	WALL PROTECTION	INPRO CORP	CONTINUUM RIGID SHEET; SIZE 4'X10'X.080T	CHEMICAL, STAIN AND MOLD RESISTANCE; FIBERGLASS FREE
	M4	TOP CAP	INPRO CORP	PRODUCT #61710; LENGTH 10'; FINISH S.S.	
	M5	HYGIENIC COVE BASE	INPRO CORP	PRODUCT #SCB-6SL-3396; SIZE: 8' LENGTH; FINISH: S.S.	FABRICATE PREFORMED CORNERS SHALL BE 90 DEGREE
	M6	INSIDE CORNER	INPRO CORP	PRODUCT # 61910; LENGTH 10'; COLOR MATCHING	
	M7	OUTSIDE CORNER	INPRO CORP	PRODUCT # 62010; LENGTH 10'; COLOR MATCHING	
	M8	VERTICAL DIVIDER BARS	INPRO CORP	PRODUCT # 61810; LENGTH 10'; COLOR MATCHING	

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3000 Wayne Memorial Dr, Goldsboro, NC 27534

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FINISH PLAN, SCHEDULE AND LEGEND

A3.0.1

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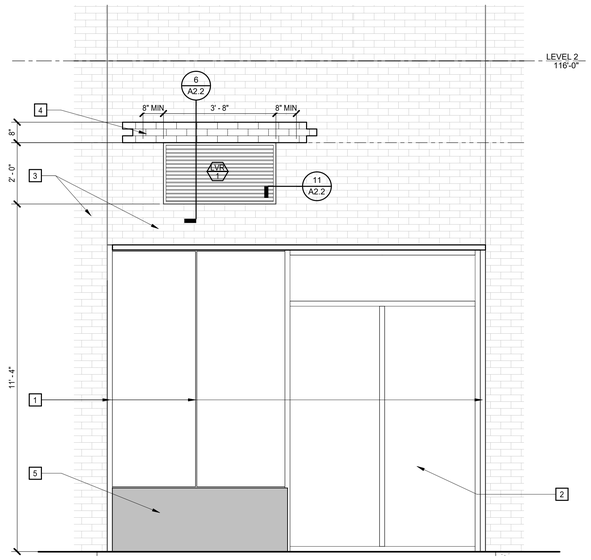
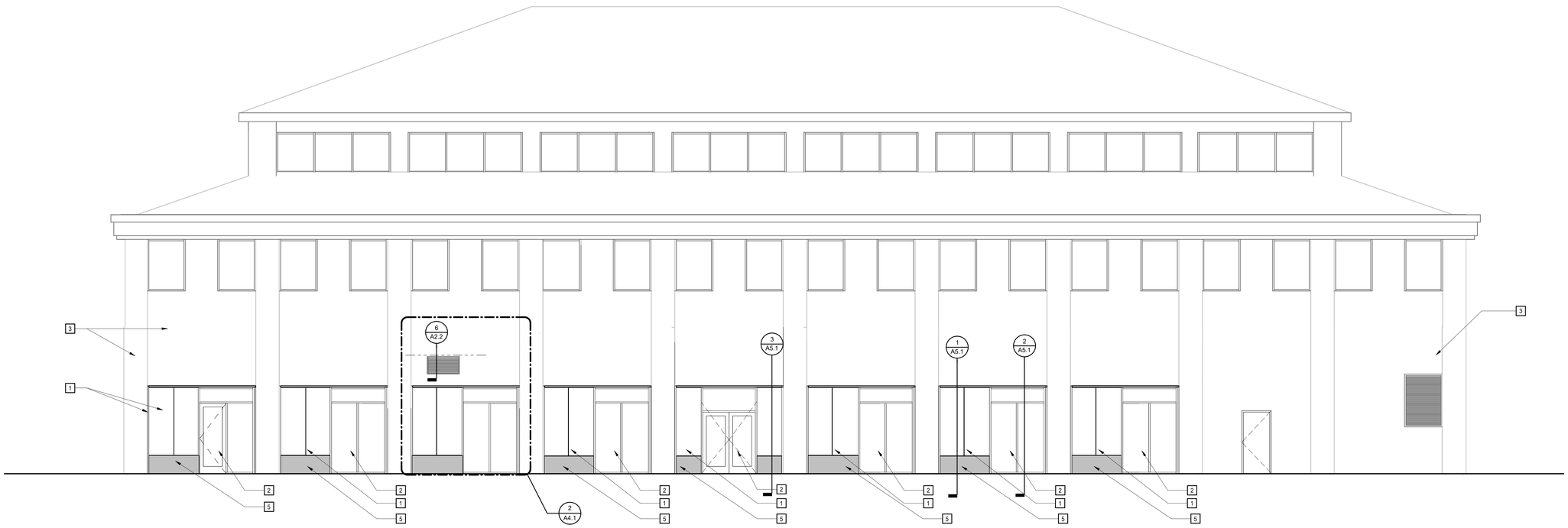


2 A4.1 | A4.1 **NORTH ELEVATION, ENLARGED**

1/2" = 1'-0"



1 A2.1 | A4.1 **NORTH ELEVATION**

3/16" = 1'-0"

0" 1' 4' 10'
3/16" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

ELEVATION GENERAL NOTES

A. METAL PANEL JOINTS SHALL ALIGN WITH CONTROL JOINTS, MASONRY OPENINGS, ALUMINUM STOREFRONT, OR OTHER ADJACENT BUILDING ELEMENTS AS INDICATED.

BUILDING ELEVATION KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A4.1 - A4.n

1	MCM PANEL COLOR A; ARCHITECT TO SELECT COLOR FROM MANUFACTURERS STANDARD COLORS
2	ALUM STOREFRONT SYSTEM
3	EXISTING BRICK
4	TOOTH IN SALVAGED BRICK
5	MCM PANEL COLOR B; ARCHITECT TO SELECT COLOR FROM MANUFACTURERS STANDARD COLORS

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BUILDING ELEVATIONS

A4.1

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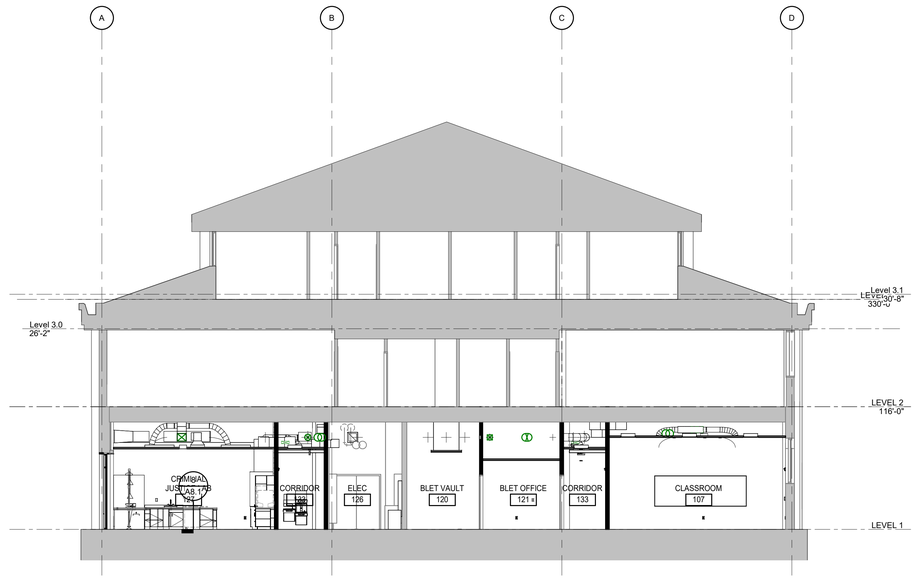
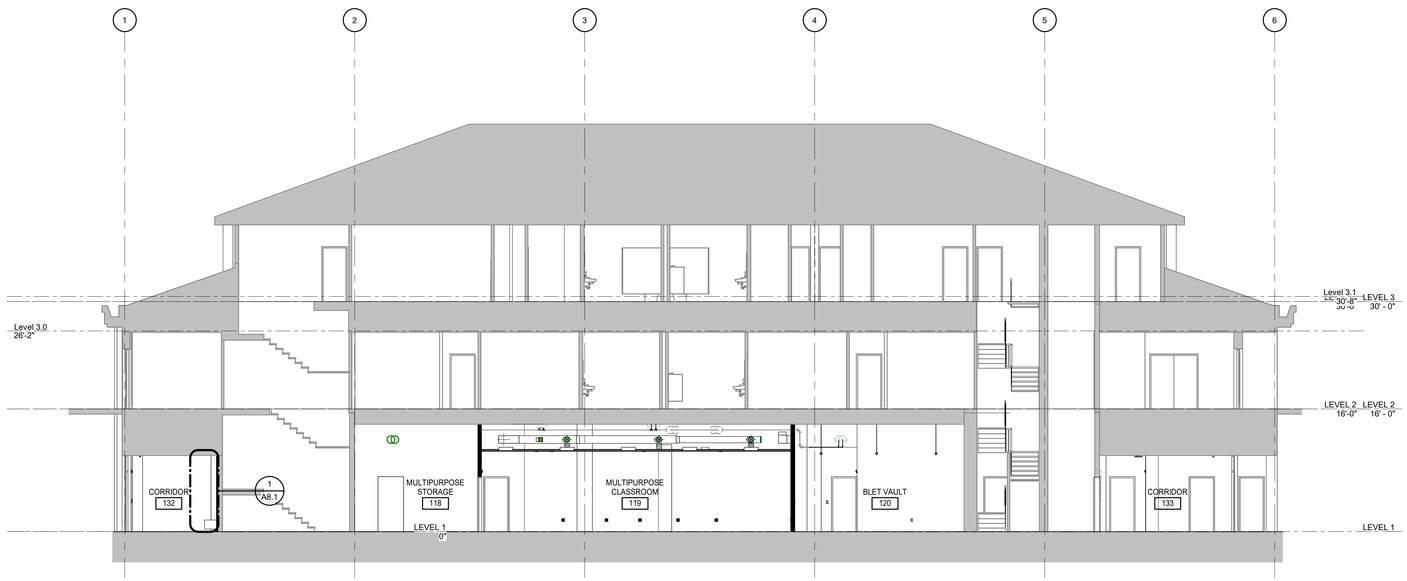


2 A2.1 A5.0.1 **BUILDING SECTION 2**
1/8" = 1'-0"



1 A2.1 A5.0.1 **BUILDING SECTION 1**
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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BUILDING SECTION

A5.0.1

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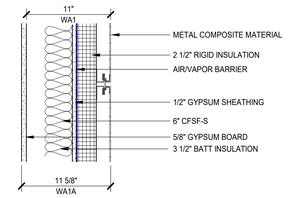
EXTERIOR WALL ASSEMBLIES

APPLIES TO A5.1 AND A5.2 SERIES OF DRAWINGS
REPRESENTED BY (WAn)

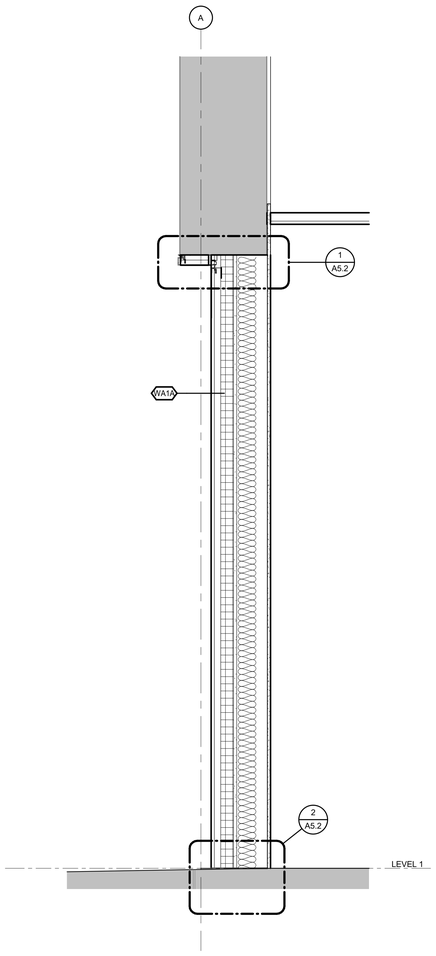
MARK	FIRE RATING	REMARKS	INFORMATION
WA1 WA1A	(REFER TO LS 1.1 FOR LEGEND)	5/8" GYPSUM BOARD ON INTERIOR WALL AT WA1A	

WALL SECTION KEYNOTES

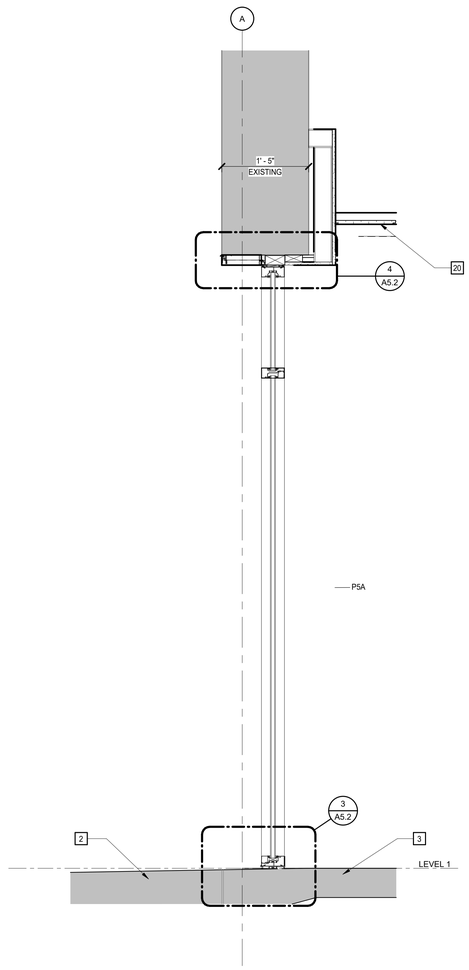
REPRESENTED BY (n)

APPLIES TO DRAWINGS A5.1- A5.2

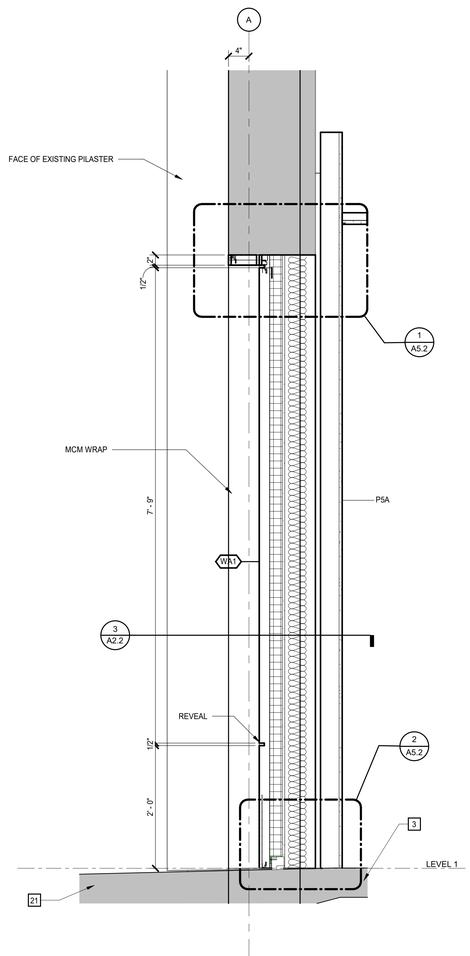
1	EXISTING MASONRY
2	EXISTING CONCRETE APRON
3	EXISTING CONCRETE FLOOR SLAB ON GRADE
4	5/8" GYPSUM BOARD
5	STARTER TRACK WITH WEEP HOLES
6	MCM PANEL
7	AIR BARRIER
8	BASE CLOSURE, SET IN FULL SEALANT BED
9	CONTINUOUS SEALANT
10	1/2" GYPSUM SHEATHING
11	2 1/2" RIGID INSULATION
12	SHIM
13	CONTINUOUS TERMINATION BAR WITH CONTINUOUS SEAL ON TOP
14	MINERAL-FIBER INSULATION, FRICTION FIT FOR CONTINUOUS CLOSURE OF WALL CAVITY
15	PREFINISHED DRIP FLASHING WITH HEMMED EDGE
16	REMOVE EXISTING SEALANT; INSTALL SEALANT IN EXISTING CONTROL JOINT
17	GALV 'Z' FURRING, 2 1/2" DEEP
18	BLOCKING, AS REQUIRED
19	SELF ADHEARED TRANSITION FLASHING
20	CEILING, TYPE VARIES; REFER TO A9.1 RCOP PLAN AND A3.0.1 FINISH SCHEDULE FOR ADDITIONAL INFORMATION
21	EXISTING CONCRETE APRON
22	CONTINUOUS SEALANT AND BACKER ROD
23	LEVELING COMPOUND



3 WALL SECTION 3
A2.1 A5.1
1" = 1'-0"



2 WALL SECTION 2
A2.1 A5.1
1" = 1'-0"



1 WALL SECTION 1
A2.1 A5.1
1" = 1'-0"

0 3" 6" 1' 2'
1" = 1'-0"

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WALL SECTIONS

A5.1

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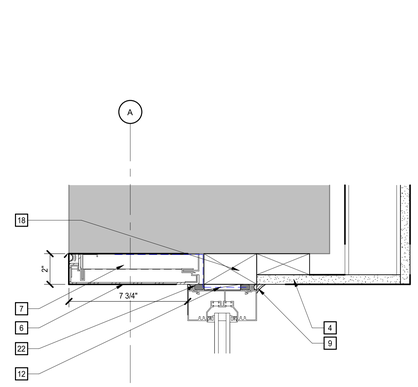
WALL SECTION KEYNOTES

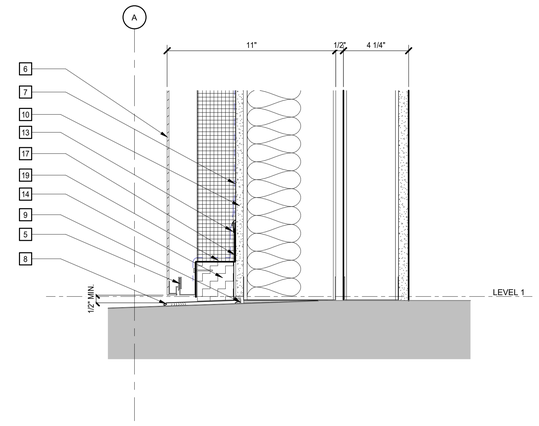
REPRESENTED BY n

APPLIES TO DRAWINGS A5.1- A5.2

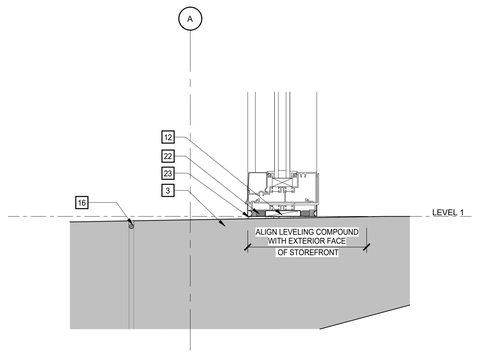
1	EXISTING MASONRY
2	EXISTING CONCRETE APRON
3	EXISTING CONCRETE FLOOR SLAB ON GRADE
4	5/8" GYPSUM BOARD
5	STARTER TRACK WITH WEEP HOLES
6	MCM PANEL
7	AIR BARRIER
8	BASE CLOSURE, SET IN FULL SEALANT BED
9	CONTINUOUS SEALANT
10	1/2" GYPSUM SHEATHING
11	2 1/2" RIGID INSULATION
12	SHIM
13	CONTINUOUS TERMINATION BAR WITH CONTINUOUS SEAL ON TOP
14	MINERAL-FIBER INSULATION, FRICTION FIT FOR CONTINUOUS CLOSURE OF WALL CAVITY
15	PREFINISHED DRIP FLASHING WITH HEMMED EDGE
16	REMOVE EXISTING SEALANT; INSTALL SEALANT IN EXISTING CONTROL JOINT
17	GALV 'Z' FURRING, 2 1/2" DEEP
18	BLOCKING, AS REQUIRED
19	SELF ADHEARED TRANSITION FLASHING
20	CEILING, TYPE VARIES: REFER TO A9.1 RCOP PLAN AND A3.0.1 FINISH SCHEDULE FOR ADDITIONAL INFORMATION
21	EXISTING CONCRETE APRON
22	CONTINUOUS SEALANT AND BACKER ROD
23	LEVELING COMPOUND



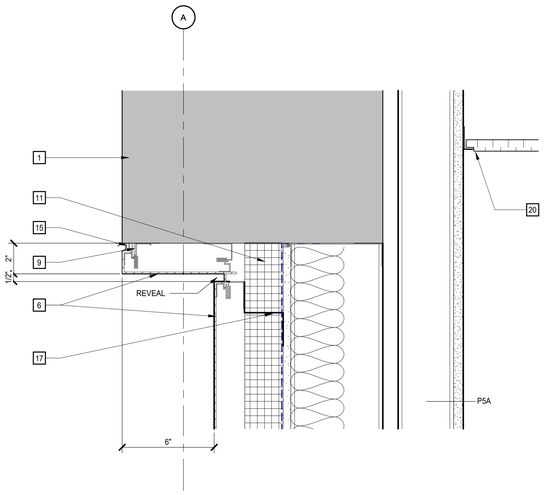
4 DETAIL (A2.1 | A5.2)
3" = 1'-0"



2 DETAIL (A5.1 | A5.2)
3" = 1'-0"



3 DETAIL (A2.1 | A5.2)
3" = 1'-0"



1 DETAIL (A5.1 | A5.2)
3" = 1'-0"

0" 1" 2" 4" 8"
3" = 1'-0"

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ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

WALL SECTION DETAILS

A5.2

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CASEWORK KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A8.1

1	ADA SINK FRONT WITH ACCESSIBLE TOE KICK
2	REFRIGERATOR OWNER FURNISHED CONTRACTOR INSTALLED
3	OPEN KNEE SPACE
4	WOOD BENCH WITH RECESSED TOE KICK
5	ACOUSTICAL WALL PANEL
6	VIDEO DISPLAY; NIC
7	HYGIENIC WALL CLADDING (IWRC)
8	SEAL ALL EXPOSED EDGES & SEAMS AT IWRC W/ MANFACTURERS: TOP CAP, DIVIDER BAR, INSIDE & OUTSIDE CORNERS AND WALL BASE
9	PROVIDE (2) DUPLEX OUTLETS PER KNEE SPACE
10	12"H MODESTY PANEL
11	PROVIDE 3"DIA GROMMET HOLES; 2 PER KNEE SPACE; LOCATE 8" FROM THE BACK EDGE OF THE BENCH
12	GRAPHIC WALLCOVERING (WC-1) - TO BE PROVIDED BY WCC; WC TO WRAP OUTSIDE CORNER AND TERMINATE AT INSIDE CORNER; WC TO BE CLASS A FIRE RATED.
13	WOOD PANEL (WDP-1)

CASEWORK GENERAL NOTES

A. COUNTERTOP(S):
- 2'-10" AFF MAX OR 2'-10" MAX TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
- 2'-1" DEEP
- SOLID SURFACE IN BREAK ROOM
- CHEMICAL RESISTANT RESIN IN CRIMINAL JUSTICE
- BACKSPLASHES: 4" HIGH AT ALL SIDES AND BACK TO MATCH COUNTERTOP
- EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS
- VERIFY SLAB LEVELNESS AT CASEWORK PRIOR TO INSTALL. CONSTRUCTION TOLERANCES DO NOT APPLY TO ACCESSIBLITY DIMENSIONS; MAX DIMENSIONS SHALL BE MAINTAINED.

B. BREAK ROOM CABINET(S):
1. BASE CABINETS
   - 2'-0" DEEP NOMINAL
   - PLASTIC LAMINATE
   - TOE KICKS: 4" NOMINAL HIGH (REDUCE AS NEEDED FOR TOLERANCES) & 3" DEEP
   - SINK LOCATIONS: 3'-0" WIDE CLEAR KNEE SPACE FOR BARRIER FREE ACCESS
2. WALL CABINET(S):
   - 1'-0 1/2" DEEP NOMINAL
   - 2'-6" HIGH
   - TOP AT 7'-0" AFF
   - PLASTIC LAMINATE
   - MINIMUM 11" CLEAR INTERIOR DEPTH

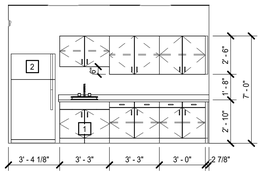
A. CRIMINAL JUSTICE CABINET(S):
1. BASE CABINETS
   - 2'-6" DEEP NOMINAL
   - PLASTIC LAMINATE
   - TOE KICKS: 4" NOMINAL HIGH (REDUCE AS NEEDED FOR TOLERANCES) AND 3" DEEP
   - SINK LOCATIONS: 3'-0" WIDE CLEAR KNEE SPACEFOR BARRIER FREE ACCESS
2. WALL CABINETS
   - 1'-0 1/2" DEEP NOMINAL
   - 2'-6" HIGH
   - TOP AT 7'-0" AFF
   - PLASTIC LAMINATE
   - MINIMUM 11" CLEAR INTERIOR DEPTH

B. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.

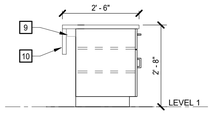
C. ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERWISE.

D. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.

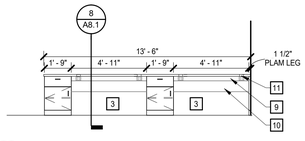
E. LOCKS: ***[fill in where you want locks, if any]*** UNLESS INDICATED OTHERWISE.



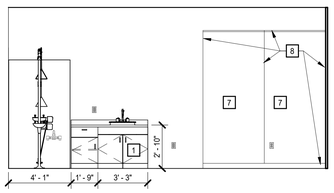
9 TYP A8.1 BREAK ROOM 109
1/4" = 1'-0"



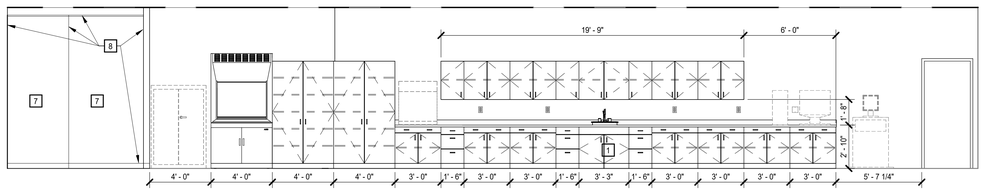
8 TYP A8.1 CRIMINAL JUSTICE LAB 127
1/2" = 1'-0"



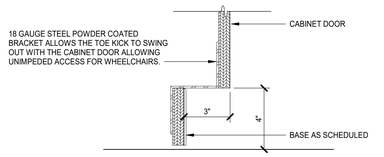
7 TYP A8.1 CRIMINAL JUSTICE LAB 127
1/4" = 1'-0"



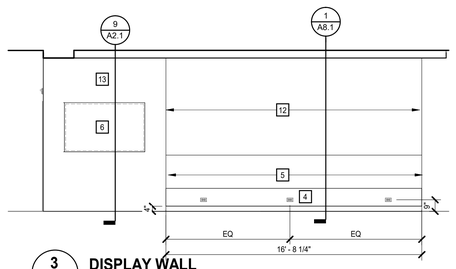
6 TYP A8.1 CRIMINAL JUSTICE LAB 127
1/4" = 1'-0"



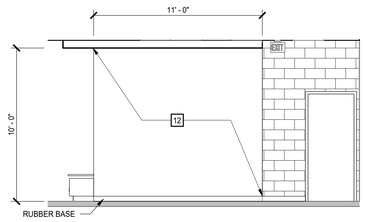
5 TYP A8.1 CRIMINAL JUSTICE LAB 127
1/4" = 1'-0"



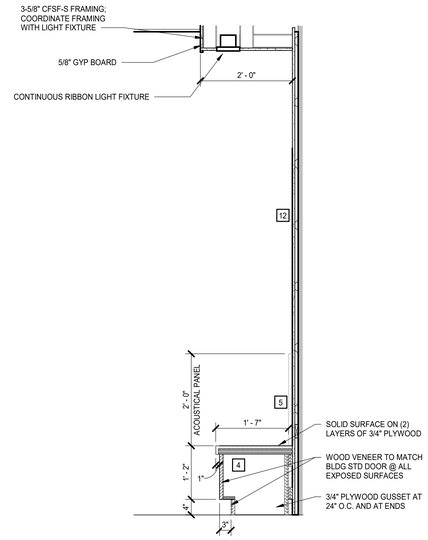
4 TYP A8.1 TYP. ACCESSIBLE TOEKICK
3" = 1'-0"



3 TYP A8.1 DISPLAY WALL
1/4" = 1'-0"



2 A2.1 A8.1 DISPLAY WALL
1/4" = 1'-0"



1 TYP A8.1 BENCH SECTION
3/4" = 1'-0"

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CASEWORK ELEVATIONS

A8.1

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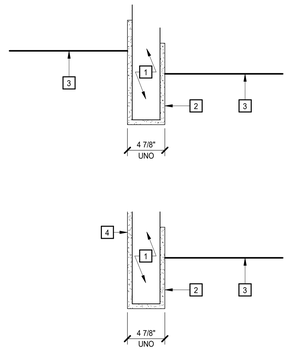


BULKHEAD DETAILS
NO SCALE

REFLECTED CEILING PLAN LEGEND
APPLIES TO DRAWINGS A9.1.n - A9.1.n

REFER TO M, E & FP DRAWINGS FOR REFLECTED CEILING PLAN SYMBOLS NOT INDICATED BELOW

A101 / nn'-nn"	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 CEILING TO REMAIN; TYPE VARIES
AP	ACCESS PANEL
WITH OPENING	EXTERIOR WALL
WITH OPENING	INTERIOR WALL/PARTITION TO UNDERSIDE OF DECK
WITH OPENING	EXISTING TO REMAIN, VERIFY VERTICAL EXTENTS WHERE THE HEIGHT IMPACTS THE WORK
WITH OPENING	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
	INTERIOR WALL/PARTITION TO UNDERSIDE OF CEILING

REFLECTED CEILING PLAN/DETAIL GENERAL NOTES

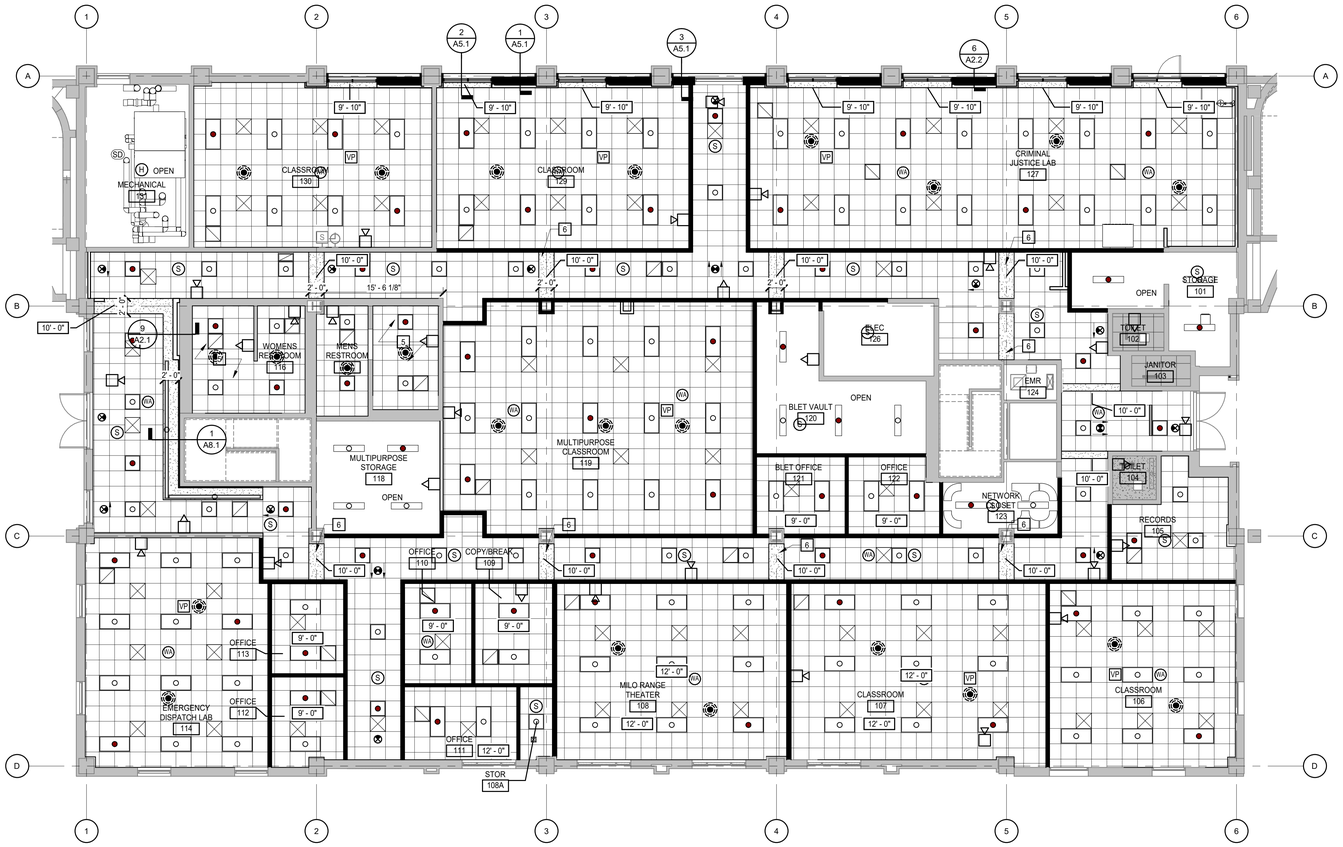
A. ALL CEILING HEIGHTS SHALL BE 10'-6" AFF UNLESS INDICATED OTHERWISE.

B. 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.

C. CENTER CEILING MOUNTED ITEMS WITHIN CEILING PANELS, UNLESS INDICATED OTHERWISE.

D. ENSURE NO SMOKE DETECTORS ARE LOCATED LESS THAN 3'-0" FROM CEILING AIR SUPPLY/RETURN REGISTERS.

E. MECHANICAL REGISTERS, LIGHTING, EXIT SIGNS, SMOKE DETECTORS, AND OTHER SYMBOLS NOT DEFINED IN THE ABOVE LEGEND ARE SHOWN FOR COORDINATION. REFER TO ELECTRICAL AND MECHANICAL PLANS AND SCHEDULES FOR LEGENDS AND ADDITIONAL INFORMATION.



REFLECTED CEILING PLAN KEYNOTES
REPRESENTED BY n

APPLIES TO DRAWINGS A9.1.1 - A9.1.n

1	CFSF-S
2	5/8" GYP BD, TERMINATE 4" ABV FIN CLG
3	FIN CLG: FINISH AND/OR HEIGHT AFF VARIES
4	GYP BD: EXTEND FULL HEIGHT, UNLESS INDICATED OTHERWISE
5	MATCH CEILING HEIGHT TO EXISITNG
6	ALIGN BULKHEAD WITH FACE OF EXISITNG COLUMN WRAP

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

0' 2' 4' 8' 16'
1/8" = 1'-0"

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REFLECTED CEILING PLAN

A9.1

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SCHEDULE OF SPECIAL INSPECTIONS
2015 IBC

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
Inspection Agents					
1. Special Inspection Engineer of Record:					
2. Inspection and Testing Agency:					
3. Steel Fabricator's Quality Control Inspector:					
4. Structural Engineer of Record:					
5. Mechanical Engineer of Record:					
6. Electrical Engineer of Record:					
7. Smoke Control Inspector:					
1704.2.4 Report Requirement					
Special inspector to keep record of special inspections and furnish inspection reports to the building official and to the Registered Design Professional in responsible charge.	●		Y	IBC 1704.2.4	1
1704.4 Contractor Responsibility					
Each contractor responsible for the construction of a main wind- or seismic force resisting system, designated seismic system or a wind- or seismic-resisting component listed in the statement of special inspections shall submit a written statement of responsibility.		●	N	1704.4	-
1704.5 Submittals to the Building Official					
Certificates of compliance for the fabrication of structural, load-bearing or lateral load-resisting members or assemblies on the premises of a registered and approval fabricator in accordance with Section 1704.2.5.1	●		Y	1704.5 1704.2.5.1	3,4
Certificates of compliance for the seismic qualification of nonstructural components, supports and attachments in accordance with Section 1705.13.2	●		N	1704.5 1705.13.2	3,4
Certificates of compliance for designated seismic systems in accordance with Section 1705.13.3	●		N	1704.5 1705.13.3	3,4
Reports of preconstruction tests for shotcrete in accordance with Section 1908.5	●		N	1704.5, 1908.5	2,4
Certificates of compliance for open web steel joist and joist girders in accordance with Section 2207.5	●		Y	1704.5, 2207.5	3,4
Reports of material properties verifying compliance with the requirements of AWS D1.4 for weldability as specified in Section 26.5.4. of ACI 318 for reinforcing bar in concrete complying with a standard other than ASTM A 706 that are to welded	●		N	1704.5, AWS D1.4 26.6.4 of ACI 318 ASTM A 706	2,4
Reports of mill tests in accordance with Section 20.2.2.5 of ACI 318 for reinforcing bars complying with ASTM A 615 and used to resist earthquake-induced flexural or axial forces in the special moment frames, special structural walls or coupling beams connecting special structural walls of seismic force-resisting systems in structures assigned to Seismic Design Category B, C, D, E, or F	●		N	1704.5 20.2.2.5 of ACI 318 ASTM A 615	3,4
1704.6 Structural Observation					
The owner shall employ a registered design professional to perform structural observation. Prior to commencement of observation, the structural observer shall submit to the building official a written statement identifying frequency and extent of structural observations.				1704.6	
Seismic		●	N	1704.6.1	4
Wind		●	N	1704.6.2	4
1705.3 Concrete Construction					
Inspect reinforcing steel, including prestressing tendons, and verify placement.		●	Y	Table 1705.3	2
Inspect reinforcing steel welding in accordance with steel construction section above		●	Y		2
Inspect anchors cast in concrete		●	Y		2
Inspect anchors post-installed in hardened concrete members	●		Y		1,2
Verify use of approved design mix		●	Y		2
Prior to placement fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	●		Y		2
Inspect concrete and shotcrete placement for proper application techniques	●		Y		2
Inspect for maintenance of specified curing temperature and techniques		●	Y		2
Inspect prestressed concrete for:					1,2
a. Application of prestressing forces	●		N		
b. Grouting of bonded prestressing tendons in the seismic-force-resisting system	●		N		
Inspect erection of precast structural members		●	N		1,2
Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs		●	N		2
Inspect formwork for shape, location and dimensions of the concrete member being formed		●	Y		1,2

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
1705.4 Masonry Construction					
Inspect masonry construction in accordance with 1705.4 and TMS 602-13/ACI 530.1-13/ASCE 6-13 Article 1.6				TMS 602-13/ACI 530.1-13 ASCE 6-13 Article 1.6	1,2
Level A Quality Assurance (Table 3)					
Prior to construction verifty certificates of compliance		●	Y		4
Level B Quality Assurance (Table 4)					
Test as follows:					
Verify slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.5B.1.b.3 for self-consolidation grout		●	Y		2
Verify f'm and f'aac in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.4B prior to construction, and for every 5000 square feet during construction		●	Y		2
Inspections as follows:					
Verify compliance with the approved submittals and project specifications		●	Y		4
At the start of masonry construction, verify:					
a. Proportions of site-prepared mortar		●	Y		2
b. Construction of mortar joints		●	Y		2
c. Grade and size of prestressing tendons and anchorages		●	N		2
d. Location of reinforcement, connectors, prestressing tendons and anchorages		●	Y		2
e. Prestressing technique		●	N		2
f. Properties of thin-bed mortar for AAC masonry. (Continuous inspection is required for the first 5000 square feet of AAC masonry. Periodic inspection is required after the first 5000 square feet of AAC masonry.)	●	●	N		2
Prior to grouting, verify:					
a. Grout space is clean		●	Y		2
b. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		●	Y		2
c. Placement of reinforcing and connectors, and prestressing tendons and anchorages		●	Y		2
d. Proportions of site-prepared grout and prestressing grout for bonded tendons		●	Y		2
e. Construction of mortar joints		●	Y		2
During masonry construction, verify:					
a. Size and location of structural members		●	Y		1,2
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction		●	Y		1,2
c. Welding of reinforcement	●		Y		1,2
d. Preparation, construction and protection of masonry during cold weather (Temperature below 40°F) or hit weather (Temperature above 90°F)		●	Y		2
e. Application and measurement of prestressing force	●		N		2
f. Placement of grout and prestressing grout for bonded tendons is in compliance	●		Y		2
g. Placement of AAC masonry units and construction of thin-bed mortar joints. (Continuous inspection is required for the first 5000 square feet of AAC masonry. Periodic inspection is required after the first 5000 square feet of AAC masonry.)	●	●	N		2
Observe preparation of grout specimens, mortar specimens and/or prisms		●	Y		2

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
Level C Quality Assurance (Table 5)					
Tests as follows:					
Verify f'm and f'aac in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.4B prior to construction, and for every 5000 square feet during construction		●	N		2
Verify proportions of materials in premixed or pre-blended mortar, prestressing group and grout other than self-consolidation grout as delivered to the project site		●	N		2
Verify slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.5B.1.b.3 for self-consolidation grout		●	N		2
Tests as follows:					
Verify compliance with approved submittals and project specifications		●	N		1,4
Verify:					
a. Proportions of site-prepared mortar, grout and prestressing grout for bonded tendons		●	N		2
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		●	N		2
c. Placement of masonry units and construction of mortar joints		●	N		2
d. Placement of reinforcement, connectors and prestressing tendons and anchorages	●		N		2
e. Grout space prior to grouting	●		N		2
f. Placement of grout and prestressing grout for bonded tendons	●		N		2
g. Size and location of structural elements		●	N		2
h. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames and other construction	●		N		2
i. Welding of reinforcement	●		N		2
j. Preparation, construction, and protection of masonry during cold weather (Temperature below 40°F) or hot weather (Temperature above 90°F)		●	N		2
k. Application and measurement of prestressing force	●		N		2
l. Placement of AAC masonry units and construction of thin-bed mortar joints	●		N		2
m. Properties of thin-bed mortar for AAC masonry	●		N		2
Observe preparation of grout specimens, mortar specimens and/or prisms	●		N		2

GENERAL

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE (NCBC), 2018 EDITION, EFFECTIVE JANUARY 1, 2019.
2. THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF THE OTHER ENGINEERING DISCIPLINES.
3. 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 QUANTITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
4. VERIFY AND COORDINATE MECHANICAL UNIT SUPPORTS AND OPENINGS WITH EQUIPMENT PURCHASED FOR THE PROJECT. COORDINATE REQUIREMENTS FOR SLEEVES, HANGERS, INSERTS, ANCHORS AND ALL OTHER ITEMS TO BE SET IN STRUCTURAL WORK.
5. CONTRACTOR SHALL CONDUCT PRE-INSTALL MEETINGS ON PROJECT SITE PRIOR TO COMMENCEMENT OF WORK. REFER TO PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. GENERAL CONTRACTOR WILL CONDUCT THE MEETING AND SHALL BE RESPONSIBLE FOR THE ATTENDANCE OF ALL REQUIRED TRADES AND SUBCONTRACTORS INCLUDING THE SPECIAL INSPECTOR.

CONCRETE MASONRY UNITS (CMU)

1. ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES WITH COMMENTARY" AND TMS 602 "SPECIFICATIONS FOR MASONRY STRUCTURES WITH COMMENTARY".
2. NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY(F'm), SHALL BE 2000 PSI, DETERMINED IN ACCORDANCE WITH THE UNIT STRENGTH METHOD PER TMS 602, UNLESS NOTED OTHERWISE.
3. GROUT SHALL CONFORM TO ASTM C476 AND SHALL BE PROPORTIONED TO OBTAIN MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
4. PLACE GROUT IN ACCORDANCE WITH TMS 402. ALLOW A MINIMUM OF 4 HOURS FOR MASONRY TO SET PRIOR TO PLACING GROUT. HIGH LIFT GROUTING IS PERMITTED PROVIDED THE GROUT PLACEMENT REQUIREMENTS OF TMS 602 SECTION 3.5 ARE MET. CONTRACTOR TO REVIEW CLEANOUT LOCATIONS FOR HIGH-LIFT GROUTING WITH ARCHITECT PRIOR TO COMMENCING WORK.
5. FILL COLLAR JOINTS OF COMPOSITE WALLS SOLID WITH MORTAR AS THE WALLS PROGRESS. BOND WYTHES OF COMPOSITE WALLS TOGETHER USING HORIZONTAL JOINT REINFORCING @ 16" ON CENTER, UNLESS NOTED OTHERWISE.
6. PROVIDE VERTICAL REINFORCING STEEL OF SIZE AND SPACING INDICATED. LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:

#4 BAR AND SMALLER	26 INCHES
#5 BAR	34 INCHES
#6 BAR	38 INCHES
#7 BAR	45 INCHES

7. PROVIDE POSITIONERS TO HOLD VERTICAL WALL REINFORCING STEEL IN PROPER ALIGNMENT.
8. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60.
9. AVOID PLACING CONDUIT IN CELLS CONTAINING STRUCTURAL REINFORCING, WHERE POSSIBLE.
10. NO SWITCHES OR BOXES WITHIN 20 INCHES OF A DOOR JAMB.
11. MASONRY WALLS OF HOLLOW UNITS WHICH CHANGE THICKNESS SHALL HAVE A CONTINUOUS GROUT FILLED COURSE BELOW THE TRANSITION. IF WALL THICKNESS IS GREATER ABOVE THE TRANSITION, THE COURSE ABOVE THE TRANSITION SHALL ALSO BE GROUTED SOLID.
12. FILL CMU CELLS WITH GROUT FROM TOP OF FOOTING TO TOP OF SLAB-ON-GRADE ELEVATION.
13. MASONRY WALL CONTROL JOINTS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR JOINT LOCATIONS AND DETAILS. COORDINATE JOINT LOCATIONS TO AVOID BEAM BEARING LOCATIONS. DO NOT BREAK BOND BEAM REINFORCEMENT AT CONTROL JOINTS.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE".
2. CONCRETE SHALL BE NORMAL WEIGHT (OR LIGHTWEIGHT AS INDICATED) AND SHALL OBTAIN ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI (F'c).
3. THE DURABILITY EXPOSURE CLASS IDENTIFIED BY THE ENGINEER OF RECORD, IN ACCORDANCE WITH ACI 318, FOR EACH MIX DESIGN/BUILDING ELEMENT AND EXPOSURE CLASS, IS BASED ON ASSUMED SEVERITY OF THE ANTICIPATED EXPOSURE. IF THE CONCRETE IS TO BE INSTALLED IN A LOCATION OR CONDITION THAT IS MORE SEVERE THAN THE EXPOSURE IDENTIFIED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR ADJUST THE CONCRETE MIX REQUIREMENTS AS REQUIRED PER ACI 318.
   A. EXPOSURE CATEGORIES:
   - (F) FREEZE/THAW
   - (S) SULFATE
   - (W) WATER/PERMEABILITY
   - (C) CORROSION PROTECTION
4. MAX W/C REFERS TO MAXIMUM WATER TO CEMENTITIOUS MATERIALS RATIO. MIXING WATER SHALL CONFORM TO ASTM C1602.
5. TARGET AIR ENTRAINMENT, ±1.5%. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED. AIR ENTRAINMENT IS OPTIONAL FOR FOOTINGS AND GRADE BEAMS NOT EXPOSED TO FREEZING.
6. DRY UNIT WEIGHT ±5 PCF. AGGREGATES TO CONFORM TO ASTM C33 FOR NORMAL WEIGHT CONCRETE (NWC) AND ASTM C330 FOR LIGHT WEIGHT CONCRETE (LWC).
7. CONCRETE BUILDING ELEMENTS IDENTIFIED WITH EXPOSURE CATEGORY F3 REQUIRE LIMITATIONS ON CEMENTITIOUS MATERIALS AS FOLLOWS:

CEMENTITIOUS MATERIAL	MAX % OF TOTAL CEMENTITIOUS MATERIALS BY MASS
• FLY ASH (ASTM C618)	25
• SLAG CEMENT (ASTM C989)	50
• SILICA FUME (ASTM C1240)	10
• TOTAL FLY ASH, OTHER POZZOLANS AND SILICA FUME	35
• TOTAL FLY ASH, OTHER POZZOLANS, SILICA FUME AND SLAG	50

8. SLABS NOT RECEIVING A HARD TROWEL FINISH MAY BE AIR-ENTRAINED. NORMAL WEIGHT SLABS RECEIVING A HARD TROWEL FINISH SHALL NOT BE AIR-ENTRAINED. FINISHING METHODS FOR AIR-ENTRAINED LIGHTWEIGHT SLABS SHALL BE SUBMITTED PRIOR TO THE PRE-INSTALLATION MEETING AND WILL BE REVIEWED AT THE MEETING.
9. COMBINED AGGREGATE GRADING SHALL BE AS FOLLOWS:
   - FOR COARSE AGGREGATE WITH 1 1/2" NOMINAL MAXIMUM AGGREGATE SIZE, 8% TO 18% (BY WEIGHT) OF AGGREGATE SHALL BE RETAINED ON EACH SIEVE BELOW THE MAXIMUM AGGREGATE SIZE SIEVE AND ABOVE THE #100 SIEVE.
   - FOR COARSE AGGREGATE WITH 3/4" OR 1" NOMINAL MAXIMUM AGGREGATE SIZE, 8% TO 22% (BY WEIGHT) OF AGGREGATE SHALL BE RETAINED ON EACH SIEVE BELOW THE MAXIMUM AGGREGATE SIZE SIEVE AND ABOVE THE #100 SIEVE.
10. MAX WATER SOLUBLE CHLORIDE ION CONTENT PERCENTAGE, BY WEIGHT OF CEMENT.
11. CONCRETE MIXTURE PROPORTIONS SHALL BE ESTABLISHED IN ACCORDANCE WITH ARTICLE 4.2.3 OF ACI 301 OR BY AN ALTERNATIVE METHOD ACCEPTABLE TO THE ENGINEER OF RECORD. EACH MIX DESIGN SHALL IDENTIFY THE INTENDED LOCATION OF USE.
12. REINFORCING STEEL SHALL BE AS FOLLOWS:
   - REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED
   - WELDED WIRE FABRIC: ASTM A1064, SHEET TYPE ONLY
   - WELDABLE REINFORCING BARS: ASTM A706 LOW ALLOW STEEL REINFORCING BARS, DEFORMED
   - DEFORMED BAR ANCHORS (DBA) ASTM A1064, DEFORMED
   - WELDING PER AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL
13. MINIMUM CONCRETE COVER OVER REINFORCING SHALL BE UNO:

A. UNFORMED SURFACE CAST AGAINST EARTH	3 IN
B. FORMED SURFACE EXPOSED TO EARTH/WEATHER	2 IN
C. FORMED SLABS AND WALLS NOT EXPOSED TO EARTH/WEATHER FOR #11 AND SMALLER BAR	3/4 IN
D. ALL OTHER FORMED ELEMENTS NOT EXPOSED TO EARTH/WEATHER	1 1/2 IN

14. REQUIRED COMPRESSIVE STRENGTH OF STRUCTURAL PRECAST CONCRETE SHALL BE DETERMINED BY THE PRECAST CONCRETE MANUFACTURER'S ENGINEER, WITH THE MINIMUM COMPRESSIVE STRENGTH AS NOTED IN THE TABLE.

STRUCTURAL STEEL

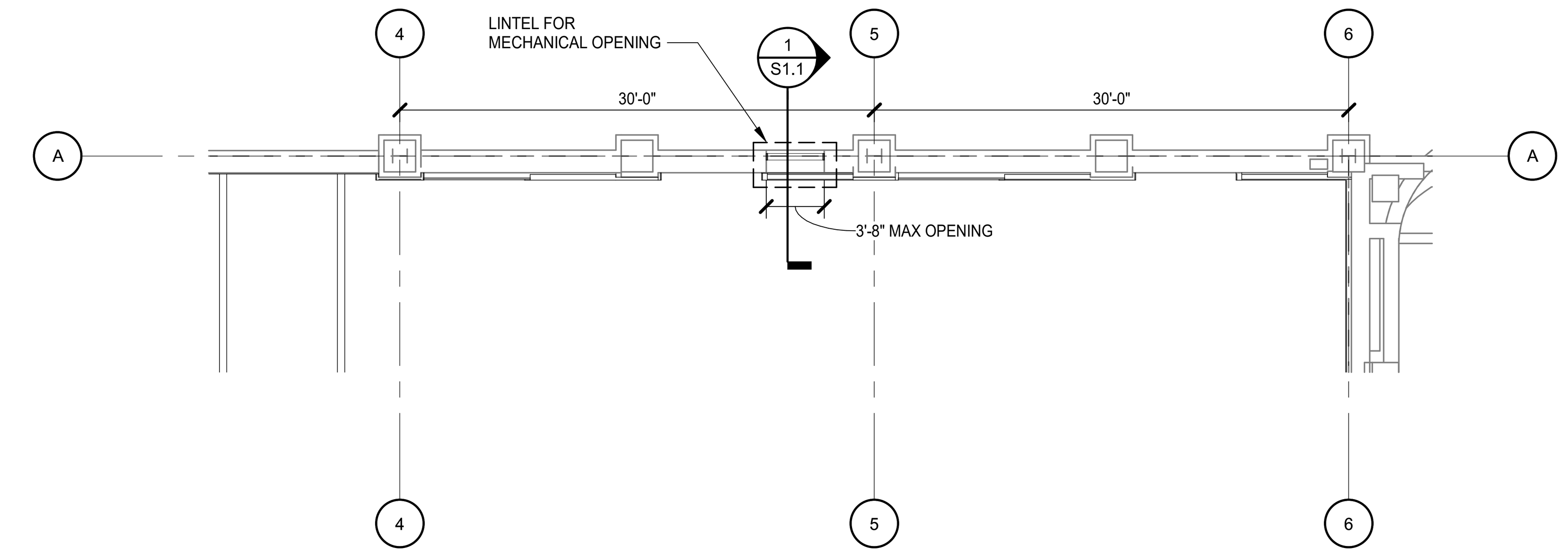
1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING AISC DOCUMENTS:
   AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
   AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
   RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:

WIDE FLANGE SHAPES, CHANNELS AND MISC CHANNELS	ASTM A992 (FY=50 KSI)
ANGLES, S-SHAPES AND M-SHAPES	ASTM A572 (FY=50 KSI)
PLATES & BARS (TO 4" THICK)	ASTM A572 (FY=50 KSI)
PLATES & BARS (OVER 4" THICK)	ASTM A36 (FY=32 KSI)
HP SHAPES	ASTM A572 (FY=50 KSI)
HOLLOW STRUCTURAL SECTIONS (HSS)	
SQUARE & RECTANGLE	ASTM A500, GRADE C (FY=50 KSI)
ROUND	ASTM A500, GRADE C (FY=50 KSI)
HIGH STRENGTH BOLTS (CONVENTIONAL)	ASTM F3125, GRADE A325 OR A490 (TYPE 1)
WASHERS	ASTM F436 (FLAT AND BEVELED)
HEAVY HEX NUTS	ASTM A563
TWIST OFF TENSION CONTROL BOLTS	ASTM F3125, GRADE F1852 OR F2280 (TYPE 1)
COMPRESSIBLE-WASHER DIRECT-TENSION INDICATORS	ASTM F959 (TYPE 325 OR 490)
ANCHOR RODS	ASTM F1554, GRADE 55 INCLUDE SUPPLEMENT S1
WELDING ELECTRODES	E70 (LOW HYDROGEN)
HEADED SHEAR STUDS	AWS D1.1 CLAUSE 9, TYPE B (FY=51 KSI)
THREADED ROD	ASTM A36
CLEVISES	AISI C-1035, ASTM A668, CLASS A
TURNBUCKLES	AISI C-1035, ASTM A668, CLASS C
RAISED-PATTERN FLOOR PLATES	ASTM A786, COMMERCIAL GRADE
SHEET & STRIP	ASTM A606, A1008 OR A1011

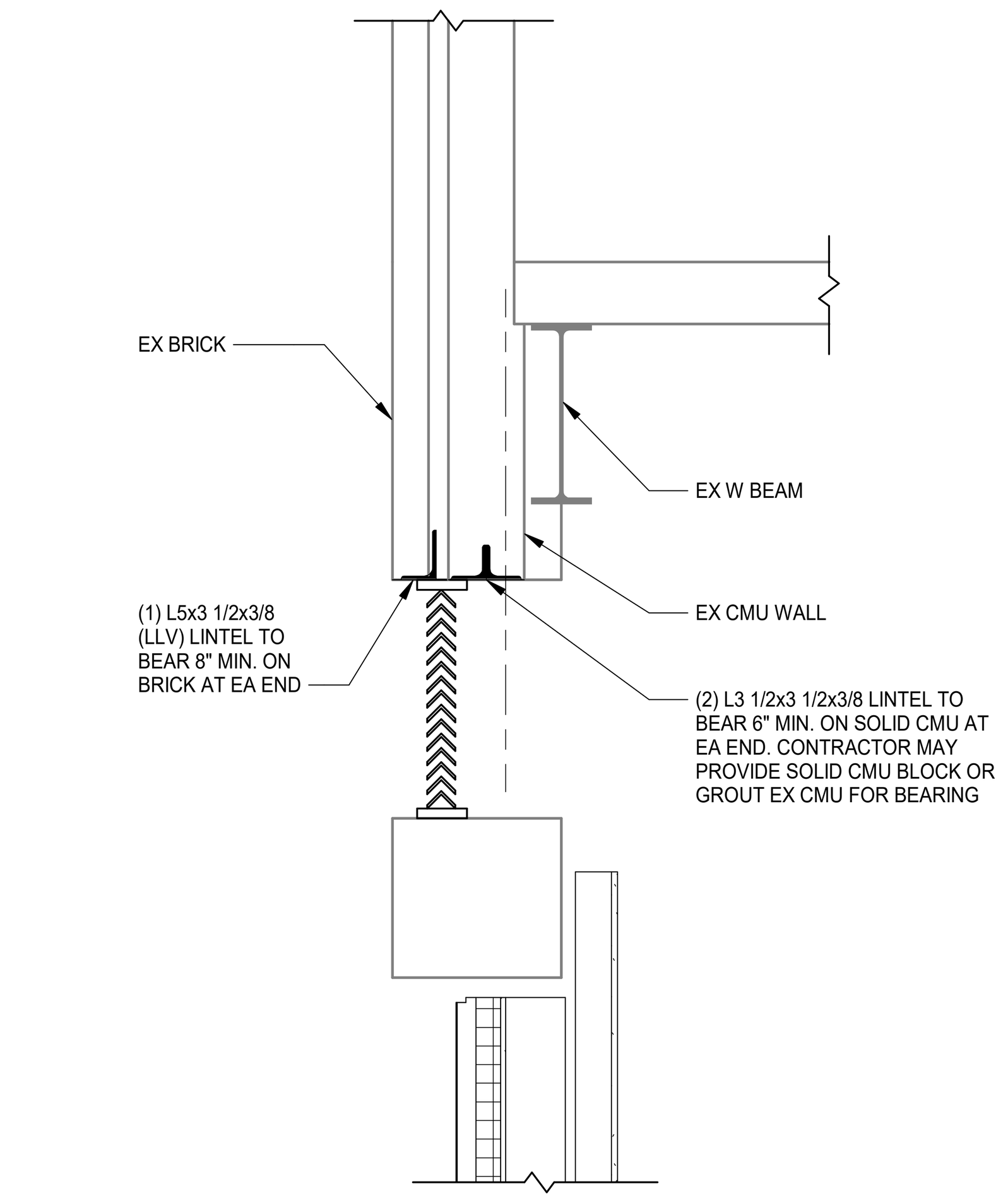
3. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION, AS SIMPLE CONNECTIONS USING ALLOWABLE STRENGTH DESIGN (ASD). CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL BE DESIGNED FOR THE UNIFORM LOAD CAPACITY INDICATED IN THE MAXIMUM TOTAL UNIFORM LOAD TABLES, PART 3, OF THE AISC MANUAL. CONNECTIONS FOR COMPOSITE STEEL BEAMS SHALL BE DESIGNED FOR THE REACTIONS INDICATED ON THE PLANS.
4. UNLESS NOTED OTHERWISE, THE TOP OF ALL STEEL COLUMNS SHALL HAVE A STEEL CAP PLATE WITH A MINIMUM THICKNESS OF 1/2". CAP PLATE DIMENSIONS SHALL MATCH COLUMN WIDTH AND DEPTH MINIMUM. WHERE JOISTS BEAR ON COLUMN, COORDINATE BEARING REQUIREMENTS WITH JOIST MANUFACTURER.
5. BOLTED JOINTS SHALL BE "SNUG TIGHTENED", UNLESS OTHERWISE INDICATED.
6. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
7. WHERE STRUCTURAL STEEL IS EXPOSED BELOW GRADE, PROVIDE MINIMUM 3" CONCRETE COVER OR COAT WITH BITUMINOUS MASTIC.
8. STRUCTURAL STEEL EXPOSED TO WEATHER IN THE FINISHED WORK SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS NOTED OTHERWISE.
9. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL INDICATED THUS (AESS), SHALL CONFORM TO THE REQUIREMENTS OF SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. ALL FABRICATION AND CONNECTIONS OF COMPONENTS EXPOSED AND VISIBLE IN THE FINISHED WORK SHALL BE MADE WITH CONTINUOUS WELDS. INTERMITTENT WELDS ARE ACCEPTABLE FOR NON-EXPOSED OR NON-VISIBLE LOCATIONS. WELD SIZE SHALL BE AS REQUIRED FOR STRUCTURAL STRENGTH BUT NOT LESS THAN 1/8" FILLET. HOLES BURNED THROUGH STEEL DECK DURING WELDING SHALL NOT BE ALLOWED. REPLACEMENT OF DECK WILL BE REQUIRED.

TEMPORARY SHORING

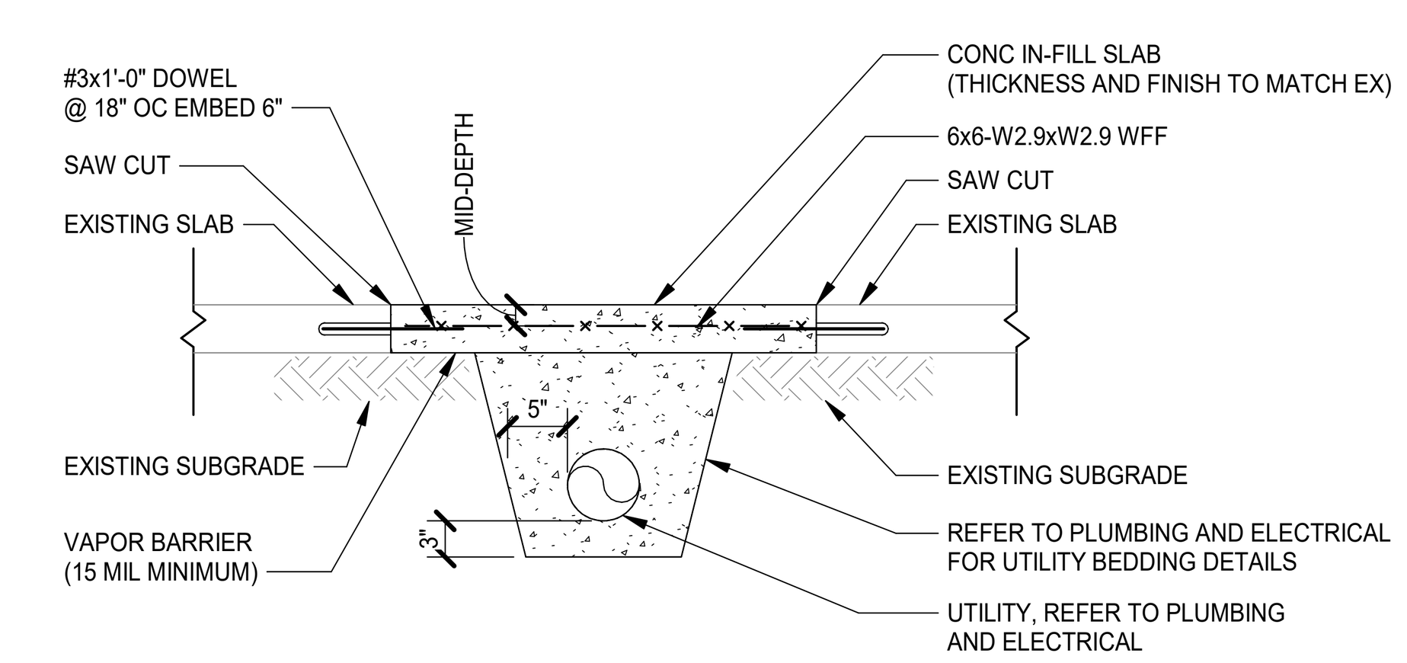
1. PROVIDE TEMPORARY SHORING AND BRACING TO MAINTAIN THE EXISTING STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT CONSTRUCTION AND LATERAL BRACING IS IN PLACE.
2. THE TEMPORARY SHORING DIAGRAMS ARE CONCEPTUAL ONLY. DESIGN OF TEMPORARY SHORING SHALL BE PROVIDED BY THE CONTRACTOR. DESIGN CALCULATIONS AND SHORING DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA.
3. CAREFULLY EVALUATE THE SITUATION WHICH EXISTS PRIOR TO COMMENCEMENT OF WORK. NOTIFY THE ARCHITECT IF ANY CONDITIONS ARE DETECTED WHICH MAY AFFECT THE STABILITY OF THE EXISTING STRUCTURE OR THE SHORING.
4. MONITOR THE PERFORMANCE OF THE TEMPORARY SHORING AT ALL TIMES DURING THIS WORK AND HAVE ADDITIONAL SHORING READILY AVAILABLE ON SITE IN THE EVENT OF DEFLECTION OR OTHER MOVEMENT OF THE SHORING.



PARTIAL FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"

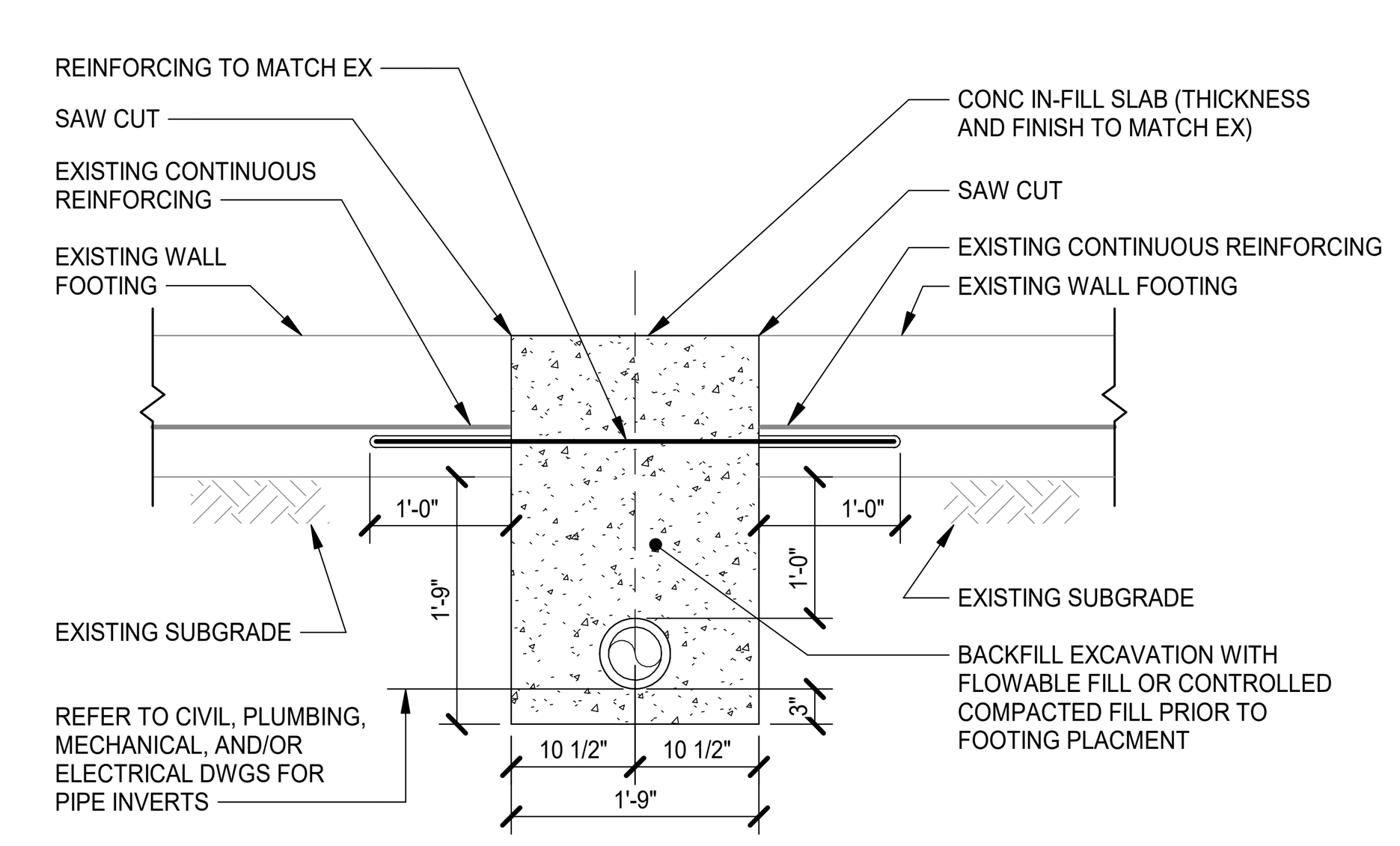


1 SECTION
S1.1 | S1.1
3/4" = 1'-0"



NOTE: GEOTECH/TESTING FIRM TO VERIFY CAPACITY AND SUITABLE SUBGRADE PRIOR TO PLACING.

EXISTING SLAB ON GRADE REPLACEMENT DETAIL AT UTILITIES



PIPE TRENCH BACKFILL AT EXISTING FOOTING

MOSELEYARCHITECTS
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL SEAL 045706 ENGINEER PAUL J. GAGNON
8-13-2024

MOSELEY ARCHITECTS PC REGISTERED ENGINEERING CORPORATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

GENERAL NOTES, PLANS, AND DETAILS

S1.1

8/28/2024 3:55:13 PM

ABBREVIATIONS

@	AT	EWC	ELECTRIC WATER COOLER	OSD	OPEN SITE DRAIN
AAV	AIR ADMITTANCE VALVE	EWH	ELECTRIC WATER HEATER	PC	PRECAST
ABV	ABOVE	EX	EXISTING	PCF	POUNDS PER CUBIC FOOT
AC-X	AIR COMPRESSOR DESIGNATION	EXP	EXPANSION	PD	PUMP DISCHARGE
ADJ	ADJUSTABLE	FCO	FLOOR CLEANOUT	PLUMB	PLUMBING
ADNL	ADDITIONAL	FD	FLOOR DRAIN	PLYWD	PLYWOOD
AFF	ABOVE FINISHED FLOOR	FDC	FIRE DEPARTMENT CONNECTION	POLY	POLYETHYLENE
AFG	ABOVE FINISHED GRADE	FF	FINISHED FLOOR	PPT	PRESSURE PRESERVATIVE TREATED
AHU	AIR HANDLING UNIT	FFE	FINISHED FLOOR ELEVATION	PREFAB	PREFABRICATE(D)
ALT	ALTERNATE	FG	FINISHED GRADE	PROJ	PROJECT
ALUM	ALUMINUM	FH	FIRE HYDRANT	PSF	POUNDS PER SQUARE FOOT
AP	ACCESS PANEL	FHC	FIRE HOSE CABINET	PSI	POUNDS PER SQUARE INCH
APPR	APPROXIMATE	FHS	FIRE HOSE STATION	PV	PROPANE VENT
ARCH	ARCHITECTURAL	FHVC	FIRE HOSE VALVE CABINET	PVC	POLYVINYL CHLORIDE
AUTO	AUTOMATIC	FIX	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	RCP-X	RECIRCULATION PUMP DESIGNATION
BLDG	BUILDING	FOS	FUEL OIL SUPPLY	RD	ROOF DRAIN (BOTTOM OUTLET)
BO	BOTTOM OF	FOV	FUEL OIL VENT	RDS	ROOF DRAIN (SIDE OUTLET)
BOT	BOTTOM	FS	FLOOR SINK	REF	REFERENCE
BSMT	BASEMENT	FSD	FOUNDATION SUB-DRAIN	REQD	REQUIRED
BTWN	BETWEEN	FT	FOOT OR FEET	REQMT	REQUIREMENTS
CA	COMPRESSED AIR	FVC	FIRE VALVE CABINET	RL	RAIN LEADER
CI	CAST IRON	G	GAS	RM	ROOM
CIP	CAST-IN-PLACE CONCRETE	GCO	GRADE CLEANOUT	RO	ROUGH OPENING
CL	CENTERLINE	GWH	GAS WATER HEATER	RV	RADON VENT
CLG	CEILING	HB	HOSE BIBB	S	SOUTH
CLR	CLEAR	HORIZ	HORIZONTAL	SAN	SANITARY
CMP	CORRUGATED METAL PIPE	HP	HORSEPOWER	SCH	SCHEDULE
CNTR	COUNTER	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	SIM	SIMILAR
CONSTR	CONSTRUCT(ION)	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
DF	DRINKING FOUNTAIN	MAX	MAXIMUM	TD	TRENCH DRAIN
DHR	DOMESTIC HOT WATER RETURN	MECH	MECHANICAL	THK	THICK(-NESS)
DHR(140)	DOMESTIC HOT WATER RETURN (140°)	MED	MEDIUM	TLT	TOILET
DHW	DOMESTIC HOT WATER	MFR	MANUFACTURER	TMV	THERMOSTATIC MIXING VALVE
DHW(140)	DOMESTIC HOT WATER (140°)	MH	MANHOLE	TOSL	TOP OF SLAB
DI	DROP INLET	MIN	MINIMUM	TW	DOMESTIC TEMPERED WATER (90° F)
DIA	DIAMETER	MISC	MISCELLANEOUS	TYP	TYPICAL
DIP	DUCTILE IRON PIPE	MTD	MOUNTED	UG	UNDERGROUND
DN	DOWN	N	NORTH	UNO	UNLESS NOTED (INDICATED) OTHERWISE
DR-X	COMPRESSED AIR DRYER DESIGNATION	N/A	NOT APPLICABLE/AVAILABLE	V	VENT
DS	DOWNSPOUT	NC	NORMALLY CLOSED	VAC	VACUUM
DT	DRAIN TILE	NG	NATURAL GAS	VB	VACUUM BREAKER
DTL	DETAIL	NGV	NATURAL GAS VENT	VERT	VERTICAL
DTW	DOMESTIC TEMPERED WATER	NIC	NOT IN CONTRACT	VIF	VERIFY IN FIELD
DWG	DRAWING	NO	NORMALLY OPEN	VTR	VENT THROUGH ROOF
DWP	DOMESTIC WATER BOOSTER PUMP	NO., (#)	NUMBER	W	WEST
E	EAST	NOM	NOMINAL	W/	WITH
ED	EMERGENCY SECONDARY ROOF DRAIN	OC	ON CENTER	W/O	WITHOUT
ELEC	ELECTRICAL	OD	OUTSIDE DIAMETER	WB	WATER HAMMER ARRESTER
ELEV	ELEVATION	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WC	WATER CLOSET
EPBD	ELECTRICAL PANELBOARD	OFF	OFFICE	WCO	WALL CLEANOUT
EQ	EQUAL	OH	OVERHEAD	WSHP	WATER SOURCE HEAT PUMP
EQUIP	EQUIPMENT	OPNG	OPENING	WWF	WELDED WIRE FABRIC
ETR	EXISTING TO REMAIN	OPP	OPPOSITE	WWM	WELDED WIRE MESH
				XFMR	TRANSFORMER

GRAPHICS SYMBOLS LEGEND

X" XXX — PIPE WITH SIZE AND SERVICE

FLOW IN DIRECTION OF ARROW

1/8" FT — PITCH DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE

PIPE CAP

PIPE TURNED DOWN

PIPE TURNED UP

PIPE TEE UP

PIPE TEE DOWN

UNION

CONCENTRIC PIPE REDUCTION

CO — END OF LINE CLEANOUT PLUG

CO — FLOOR CLEANOUT

WCO — WALL CLEANOUT

CO (GCO) — YARD CLEANOUT (CLEANOUT TO GRADE)

FD-1 — FLOOR DRAIN WITH TAG

FS-1 — FLOOR SINK WITH TAG

PRESSURE GAUGE WITH GAUGE COCK

LIQUID FILLED THERMOMETER

A — WATER HAMMER ARRESTOR (PLUMBING & DRAINAGE INSTITUTE SIZE INDICATED)

FS — FLOW SWITCH

TEMPERATURE/PRESSURE PLUG

VALVE

VALVE IN RISER

GAS COCK

VENTURI FLOW METER

MANUAL BALANCING VALVE

AUTOMATIC BALANCING VALVE WITH FLOW TAPS

SWING CHECK VALVE

PRESSURE REDUCING VALVE

S — SOLENOID OPERATED VALVE

T&P — TEMPERATURE AND PRESSURE RELIEF VALVE

BACKWATER VALVE

HOSE BIBB OR WALL HYDRANT

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER

DOUBLE CHECK BACKFLOW PREVENTER

PUMP

POINT OF CONNECTION TO EXISTING

LIMIT OF DEMOLITION

30 — KEYNOTE

8 — STRUCTURAL GRID LINE WITH DESIGNATION

A123

SPACE IDENTIFICATION TAG
SPACE NUMBER
BUILDING AREA (WHEN USED)

AHU-02

EQUIPMENT IDENTIFICATION TAG
EQUIPMENT NUMBER
UNIT DESIGNATION

A / P6.1

SECTION WHERE CUT
SECTION LETTER
DRAWING WHERE SECTION IS INDICATED

1 / P6.1

ENLARGED PLAN WHERE CUT
ENLARGED PLAN NUMBER
DRAWING WHERE ENALRGED PLAN IS INDICATED

1 / P6.1

DETAIL TAG
DETAIL NUMBER
DRAWING WHERE DETAIL IS INDICATED

S1 / P6.1

SANITARY RISER TAG
SANITARY RISER IDENTIFIER
DRAWING WHERE SANITARY RISER IS TAGGED

D1 / P6.1

DOMESTIC RISER TAG
DOMESTIC RISER IDENTIFIER
DRAWING WHERE DOMESTIC RISER IS TAGGED

1 — P2.2 — P6.2 — P2.3 — P2.4

DETAIL TITLE
1/4"=1'-0"
DETAIL NUMBER
DRAWING WHERE DETAIL IS INDICATED
DRAWING WHERE DETAIL IS CUT
ADDITIONAL DRAWING REFERENCES

S1 — P2.2 — P4.2 — P2.3 — P2.4

SANITARY RISER DIAGRAM
1/4"=1'-0"
SANITARY RISER DIAGRAM IDENTIFIER
DRAWING WHERE SANITARY RISER IS INDICATED
DRAWING WHERE SANITARY RISER IS TAGGED
ADDITIONAL DRAWING REFERENCES

D1 — P2.2 — P5.2 — P2.3 — P2.4

DOMESTIC RISER DIAGRAM
1/4"=1'-0"
DOMESTIC RISER DIAGRAM IDENTIFIER
DRAWING WHERE DOMESTIC RISER IS INDICATED
DRAWING WHERE DOMESTIC RISER IS TAGGED
ADDITIONAL DRAWING REFERENCES

LIFE SAFETY SYMBOL LEGEND

DESIGNATOR MATRIX

		PARTITION
1 HR FIRE		▬
EX 2 HR FIRE		▨

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. INDICATED RATINGS AT EXISTING WALLS ARE EXISTING TO REMAIN, AND ARE BASED ON INFORMATION PROVIDED BY THE OWNER.

EXISTING 1F BUILDING DATA

PLUMBING GENERAL DATA

Item	Value
SERVICE SIZING	
INSTANTANEOUS DEMAND (GPM)	80
SUPPLY FIXTURE UNITS (SFU)	147
DRAINAGE FIXTURE UNITS (DFU)	65
STORM DRAINAGE	
AREA OF ROOF (SQUARE FEET)	N.I.S.
AREA OF WALL ABOVE/ADJACENT TO ROOF (SQUARE FEET)	N.I.S.
TOTAL ROOF DRAINAGE (SQUARE FEET)	N.I.S.
WATER HEATERS	
NUMBER	2
HOT WATER REQUIRED	23
FUEL USED	ELEC

1F RENOVATION DATA

PLUMBING GENERAL DATA

Item	Value
SERVICE SIZING	
INSTANTANEOUS DEMAND (GPM)	75
SUPPLY FIXTURE UNITS (SFU)	137
DRAINAGE FIXTURE UNITS (DFU)	59
STORM DRAINAGE	
AREA OF ROOF (SQUARE FEET)	N.I.S.
AREA OF WALL ABOVE/ADJACENT TO ROOF (SQUARE FEET)	N.I.S.
TOTAL ROOF DRAINAGE (SQUARE FEET)	N.I.S.
WATER HEATERS	
NUMBER	1
HOT WATER REQUIRED	20
FUEL USED	ELEC

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.

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NORTH CAROLINA PROFESSIONAL SEAL 037569 ENGINEER JASON P. FORSYTH 8/15/24

MOSELEY ARCHITECTS PC REGISTERED ENGINEERING CORPORATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA

WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: MAY 15th, 2024

REVISIONS

DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

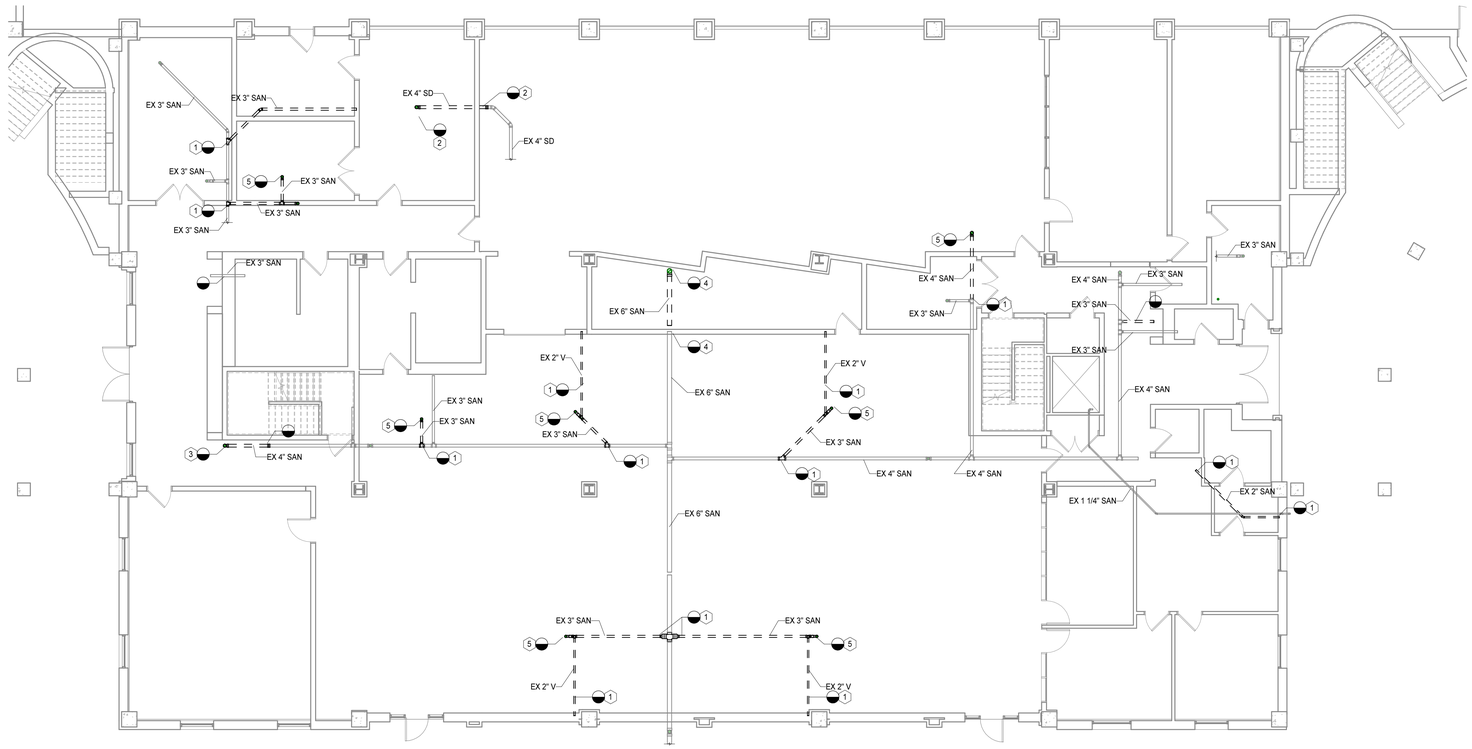
P0.1

9/3/2024 11:31:25 AM

PLUMBING DEMO FOUNDATION KEYNOTES

APPLIES TO DRAWING P1.2
REPRESENTED BY [n]

1. REMOVE DRAINAGE LATERAL/VENT PIPING NO LONGER IN USE.
2. REMOVE EXISTING CATCH BASIN AND DRAINAGE UP TO WHERE SHOWN. PRIOR TO REPAIRING SLAB, POUR CONCRETE IN THE ABANDONED DRAIN. REFER TO ABANDONED DRAIN DETAIL.
3. REMOVE DRAIN & FLOOR CLEAN OUT IN CONFLICT WITH ARCHITECTURAL LAYOUT. REMOVE AND PREPARE FOR RELOCATION OF DRAINAGE CONNECTION & FLOOR CLEAN OUT.
4. REMOVE 6" DRAINAGE LATERAL FROM SPACE ABOVE. REFER TO PLUMBING PLAN FOR RISER TAG & RE-ROUTED DRAIN LOCATION.
5. REMOVE FLOOR DRAIN/FLOOR CLEAN-OUT IN CONFLICT WITH ARCHITECTURAL LAYOUT.



N

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

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WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

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REVISIONS	
DATE	DESCRIPTION

0' 2' 4' 8' 16'
1/8" = 1'-0"

PLUMBING FOUNDATION PLAN - DEMOLITION

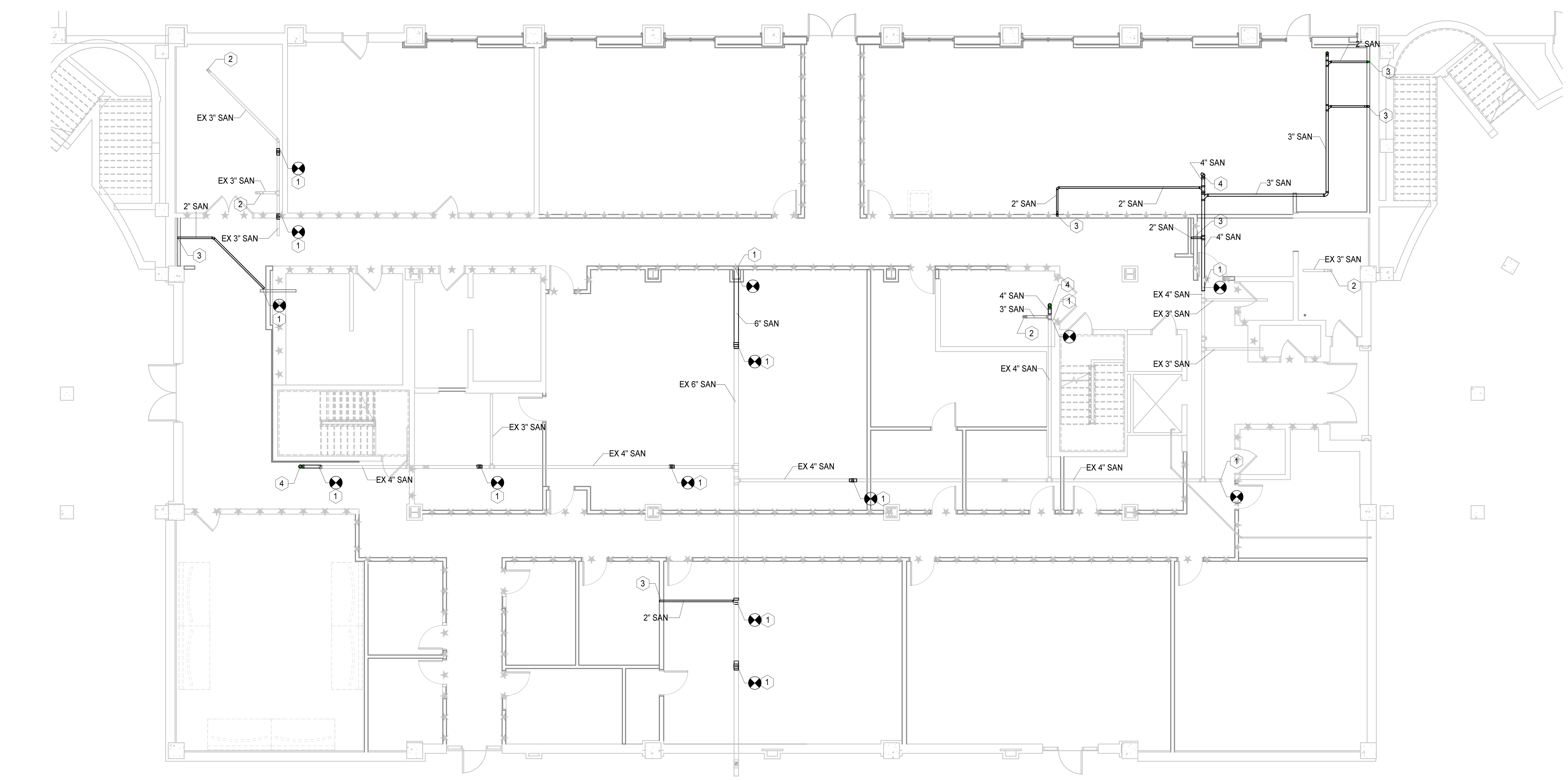
P1.2

9/3/2024 11:31:26 AM

PLUMBING FOUNDATION KEYNOTES

APPLIES TO DRAWING P1.3
REPRESENTED BY n

1. RE-CONNECT DRAINAGE LATERAL TO EXISTING DRAINAGE LATERAL.
2. UP TO EXISTING FLOOR DRAIN.
3. 2" SAN UP.
4. FLOOR CLEAN OUT, REFER TO DRAIN SCHEDULE ON SHEET P6.1.



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

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REVISIONS	
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0' 2' 4' 8' 16'
1/8" = 1'-0"

PLUMBING FOUNDATION PLAN

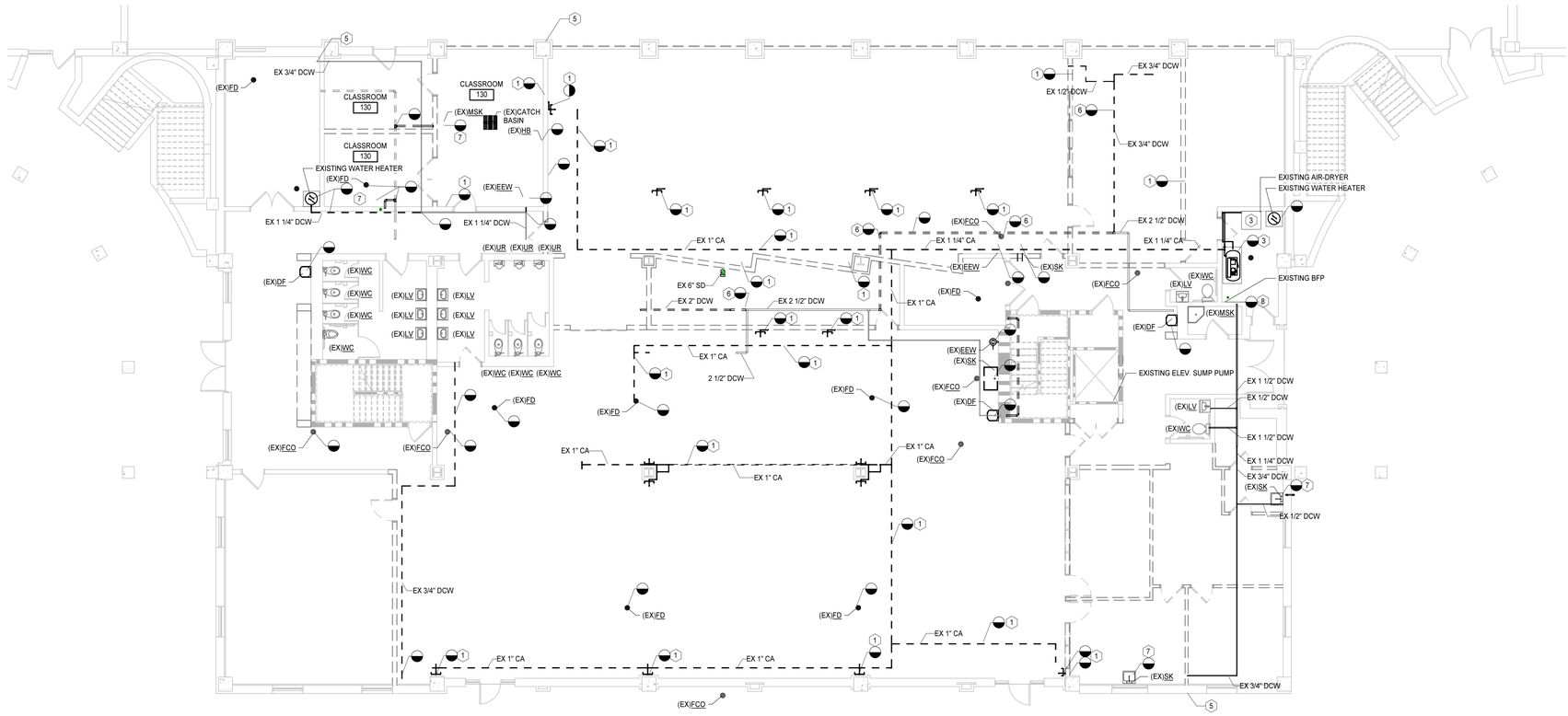
P1.3

9/3/2024 11:31:27 AM

PLUMBING DEMO KEYNOTES

APPLIES TO DRAWING P2.1
REPRESENTED BY [n]

1. REMOVE COMPRESSED AIR PIPING, PIPE SUPPORTS, AIR-DROPS & HOSE REELS. RETURN TO FACILITY.
2. REMOVE EXISTING WATER HEATER.
3. REMOVE EXISTING AIR COMPRESSOR & RETURN TO FACILITIES.
4. REMOVE AIR DRYER & RETURN TO FACILITIES.
5. EXISTING HOSEBIBB TO REMAIN.
6. REMOVE WATER PIPING AS INDICATED. CAP FOR NEXT PHASE.
7. REMOVE EXISTING SINK.
8. REMOVE EXISTING DOMESTIC WATER BACKFLOW PREVENTER.



N

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

0' 2' 4' 8' 16'
1/8" = 1'-0"

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REVISIONS	
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PLUMBING FLOOR PLANS - DEMOLITION

P2.1

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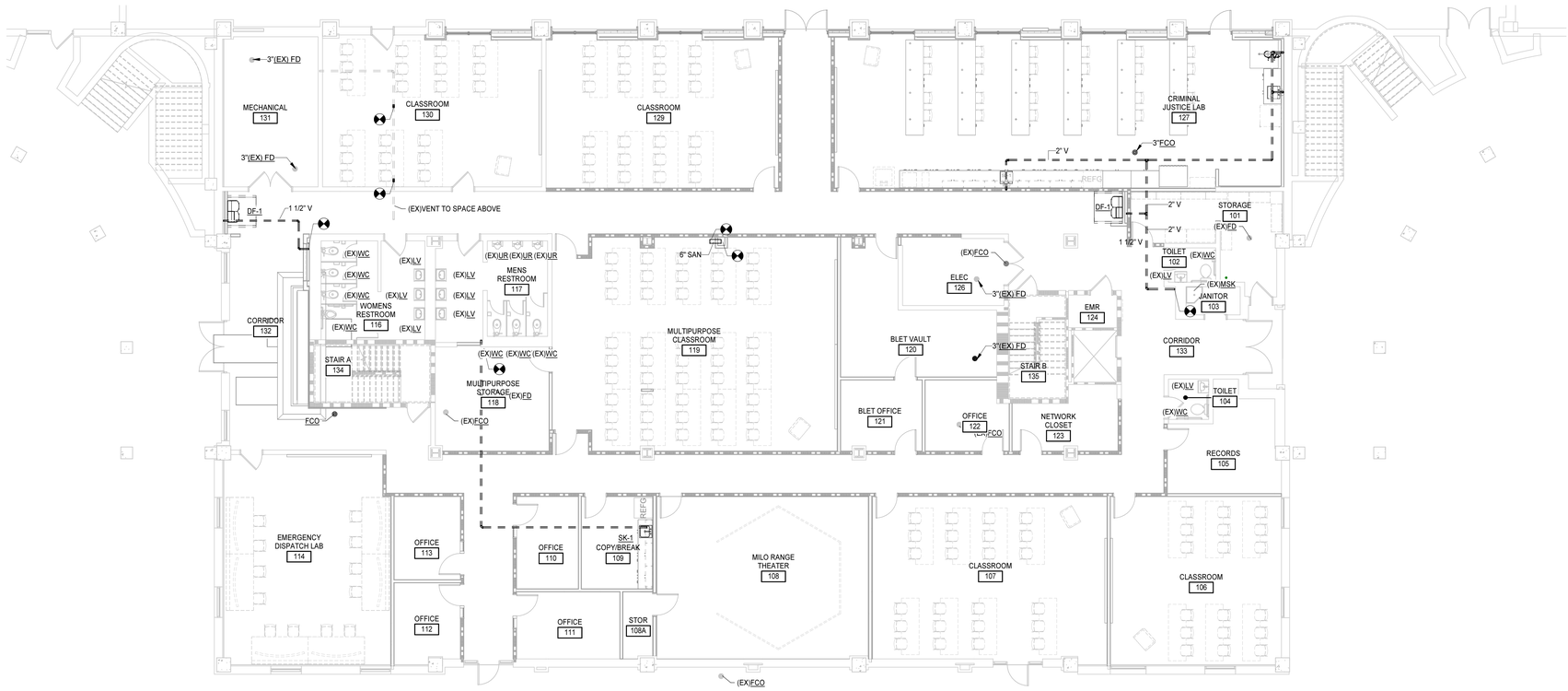

FIRST FLOOR PLAN - SANITARY

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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REVISIONS	
DATE	DESCRIPTION

PLUMBING FLOOR PLANS - SANITARY

P2.3

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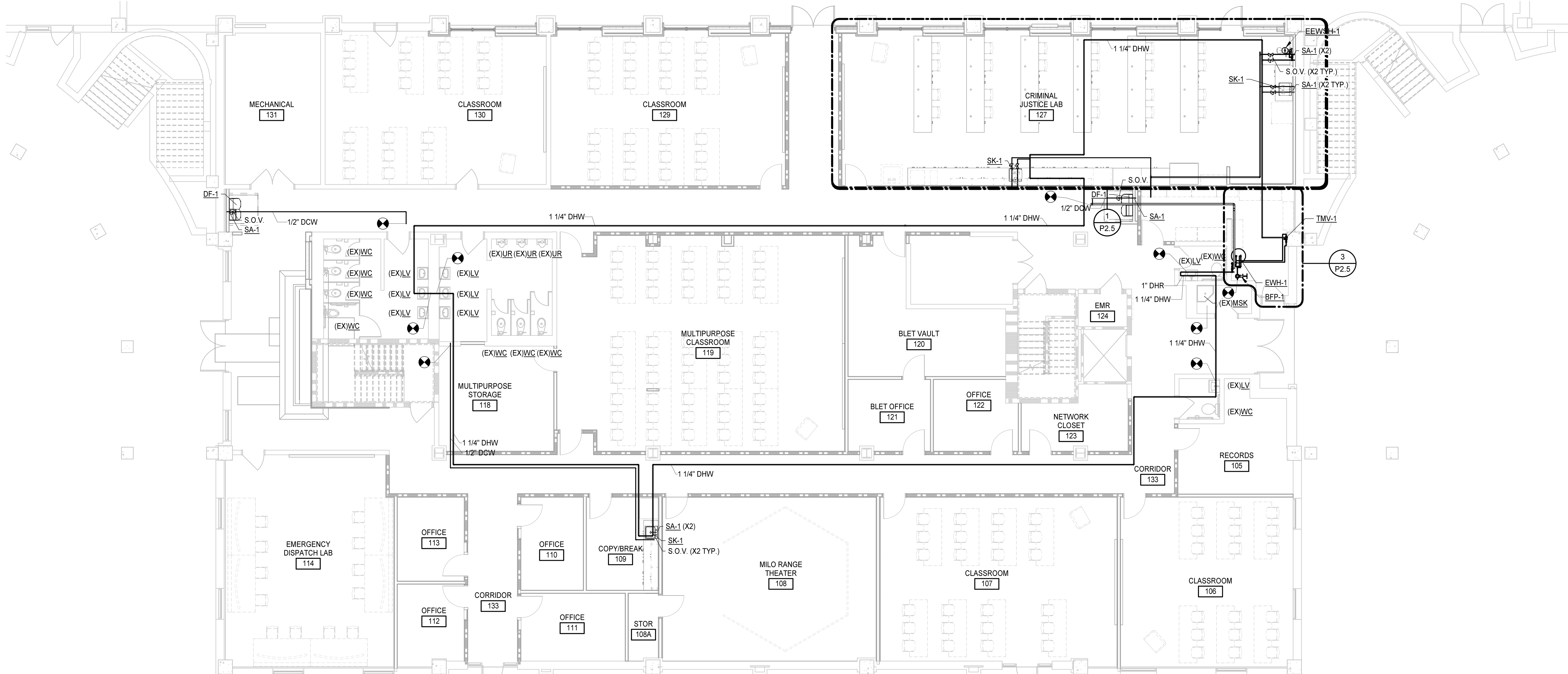

N

FIRST FLOOR PLAN - DOMESTIC

1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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REVISIONS	
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PLUMBING FLOOR PLANS - DOMESTIC

P2.4

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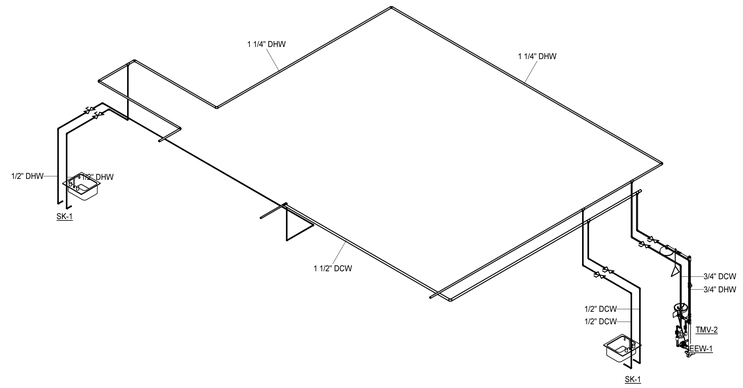
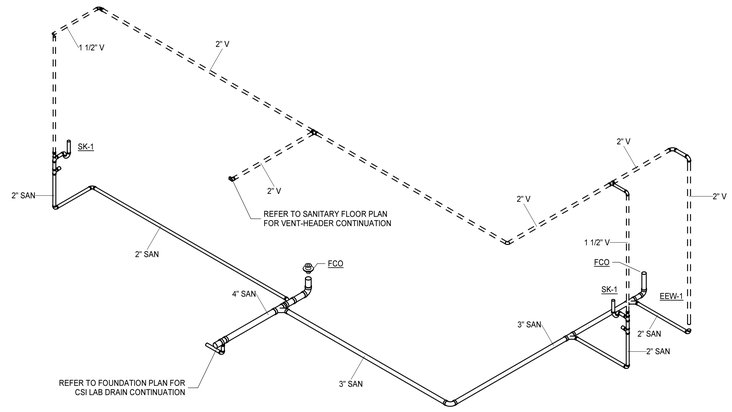
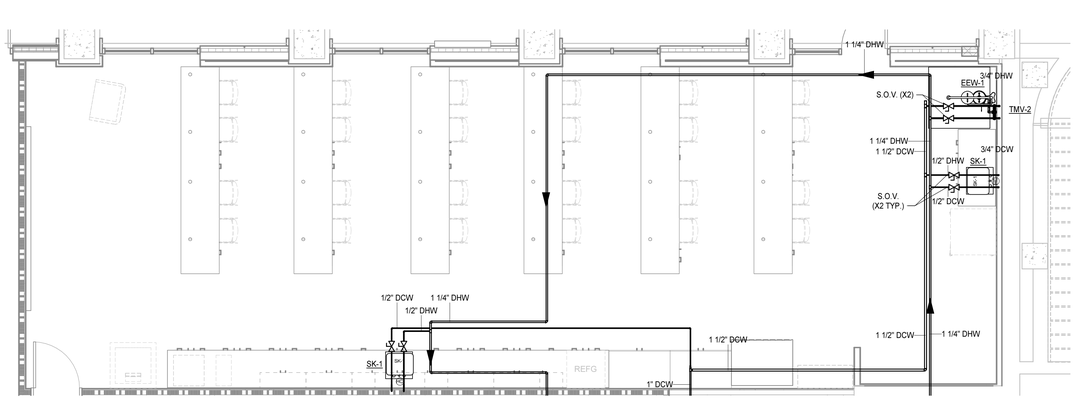


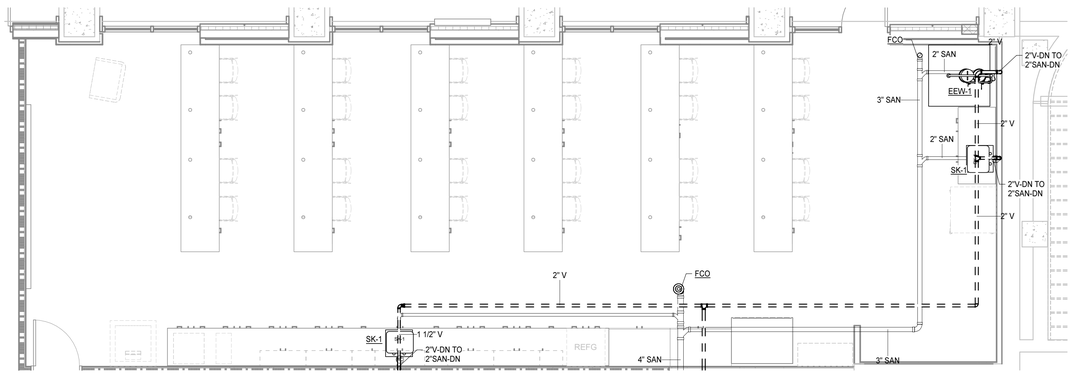
5 CSI CLASSROOM DOMESTIC WATER RISER DIAGRAM
NO SCALE



6 CSI CLASSROOM SANITARY RISER DIAGRAM
NO SCALE



N
ENLARGED CSI CLASSROOM - DOMESTIC
1/4" = 1'-0"



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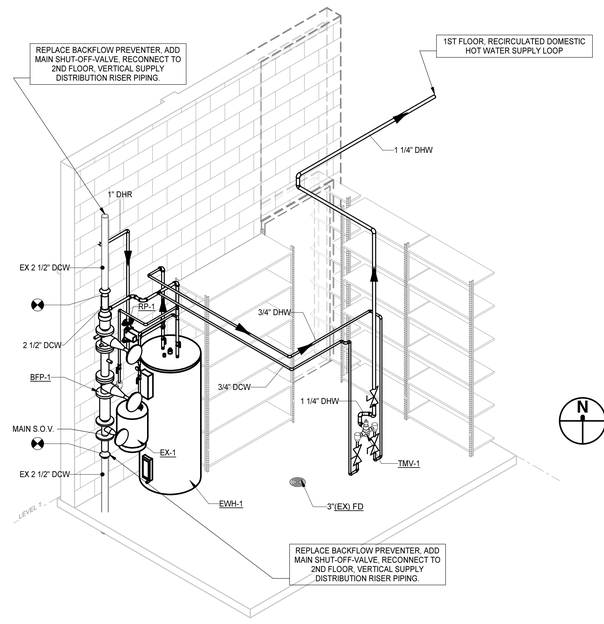
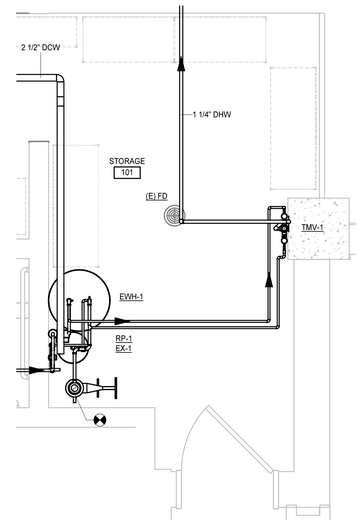
ENLARGED CSI CLASSROOM - SANITARY
1/4" = 1'-0"



4 WATER HEATING RISER DIAGRAM
NO SCALE



N
FIRST FLOOR PLAN - PLUMBING - STORAGE 101
1/2" = 1'-0"

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0' 6" 1' 2' 4'
1/2" = 1'-0"

0' 1' 2' 4' 8'
1/4" = 1'-0"

PLUMBING ENLARGED FLOOR PLANS & RISER DIAGRAMS

P2.5

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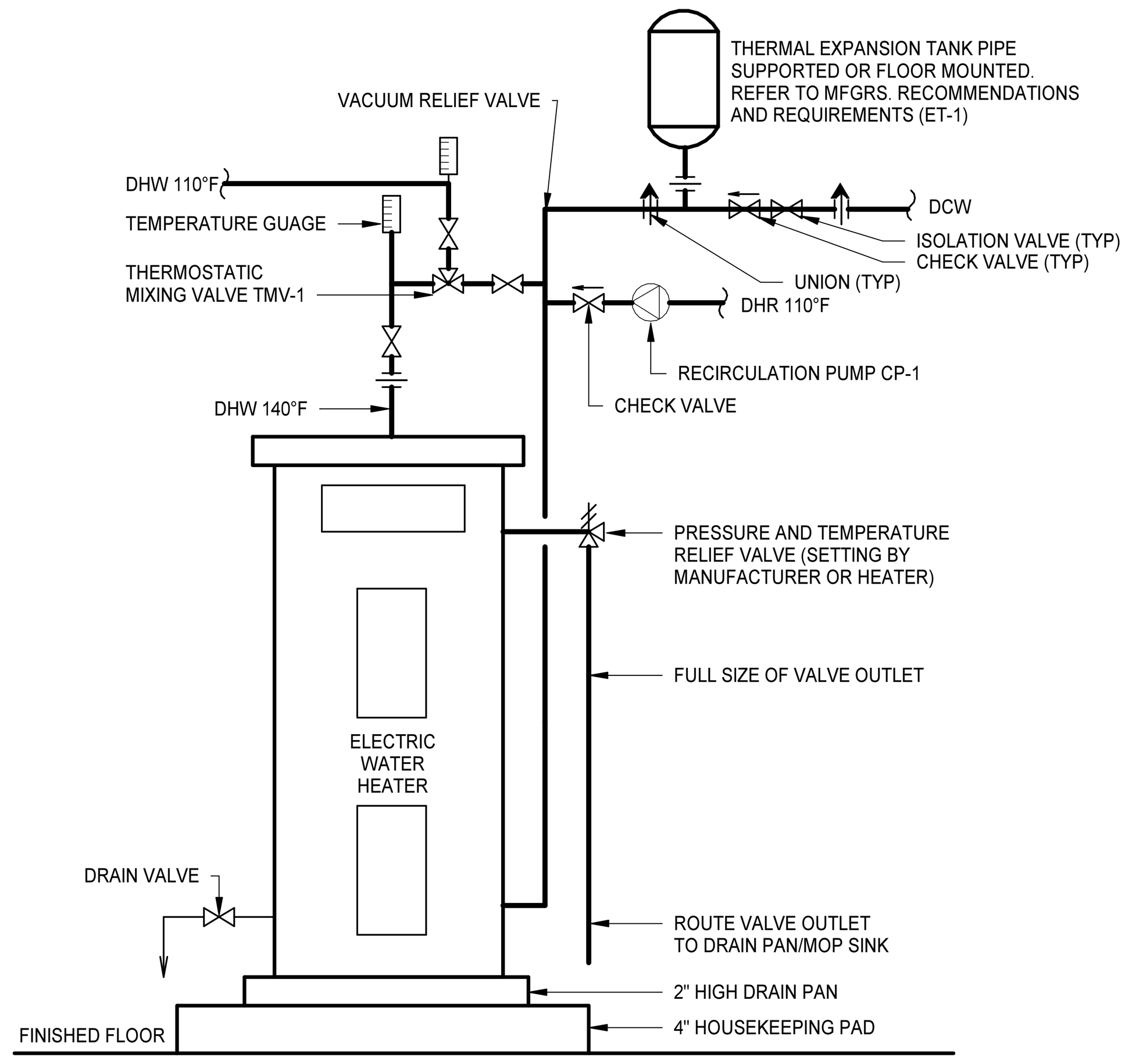
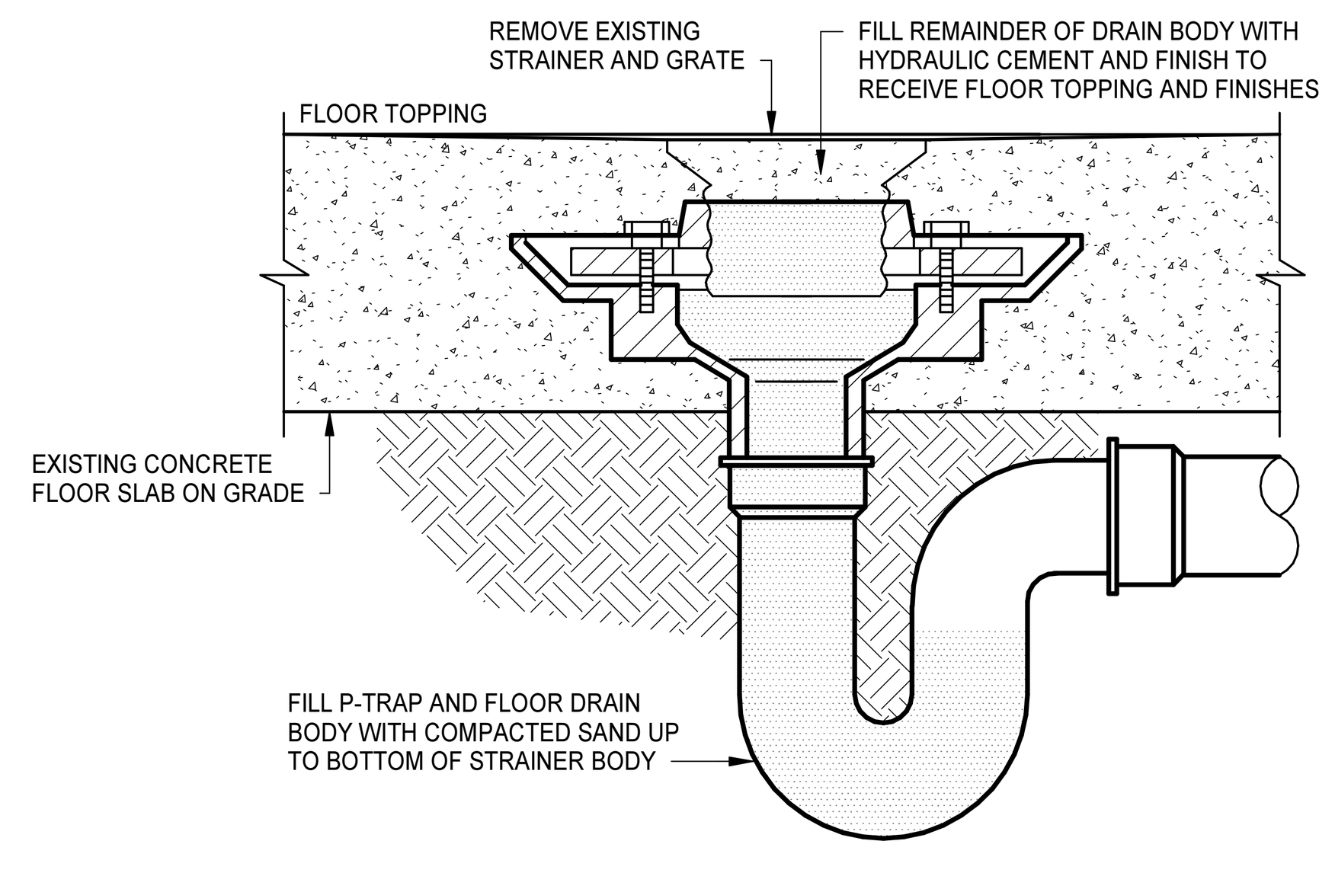
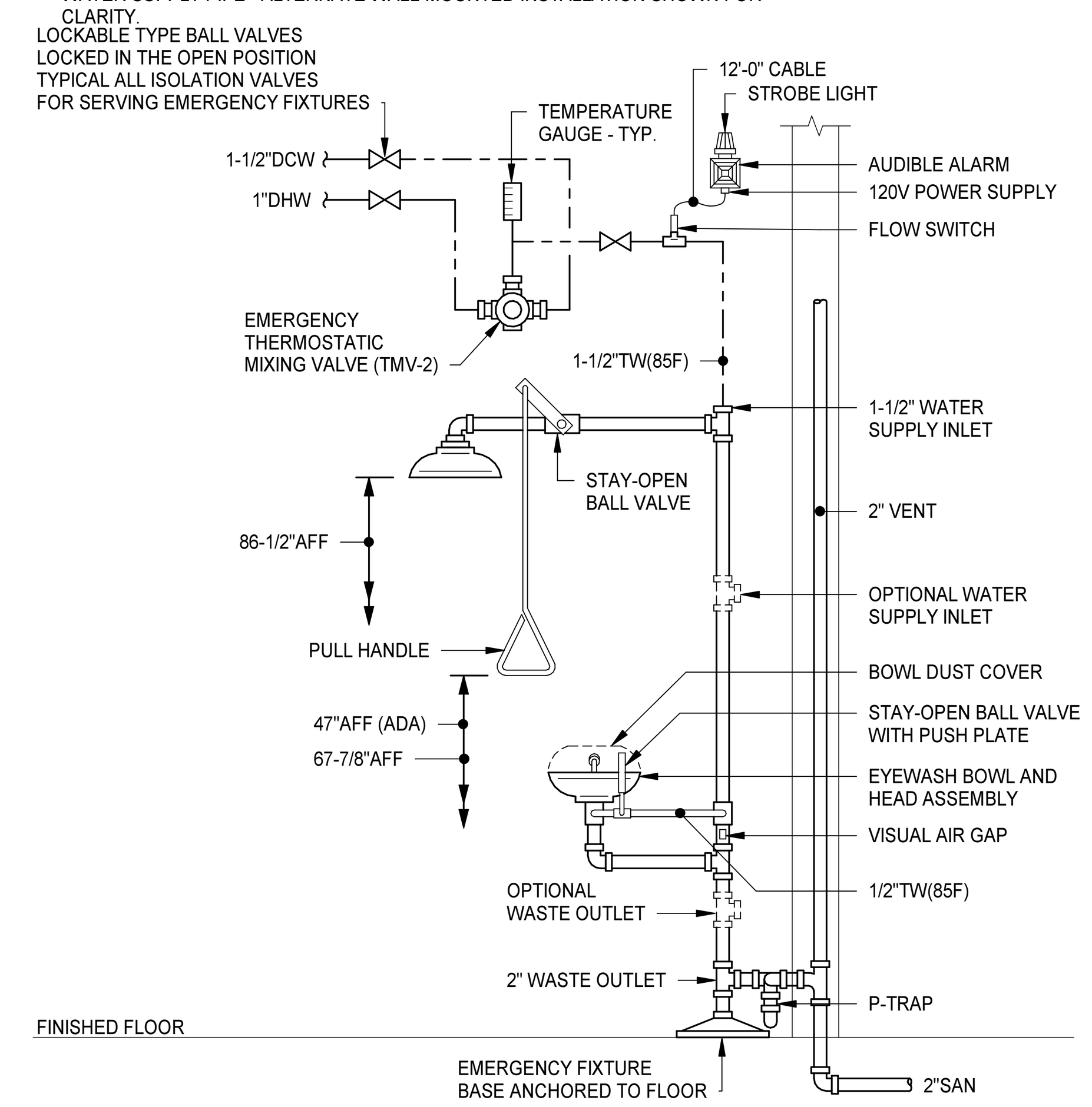


3 FLOOR MOUNTED ELECTRIC BOTTOM FEED WATER HEATER DETAIL
NO SCALE

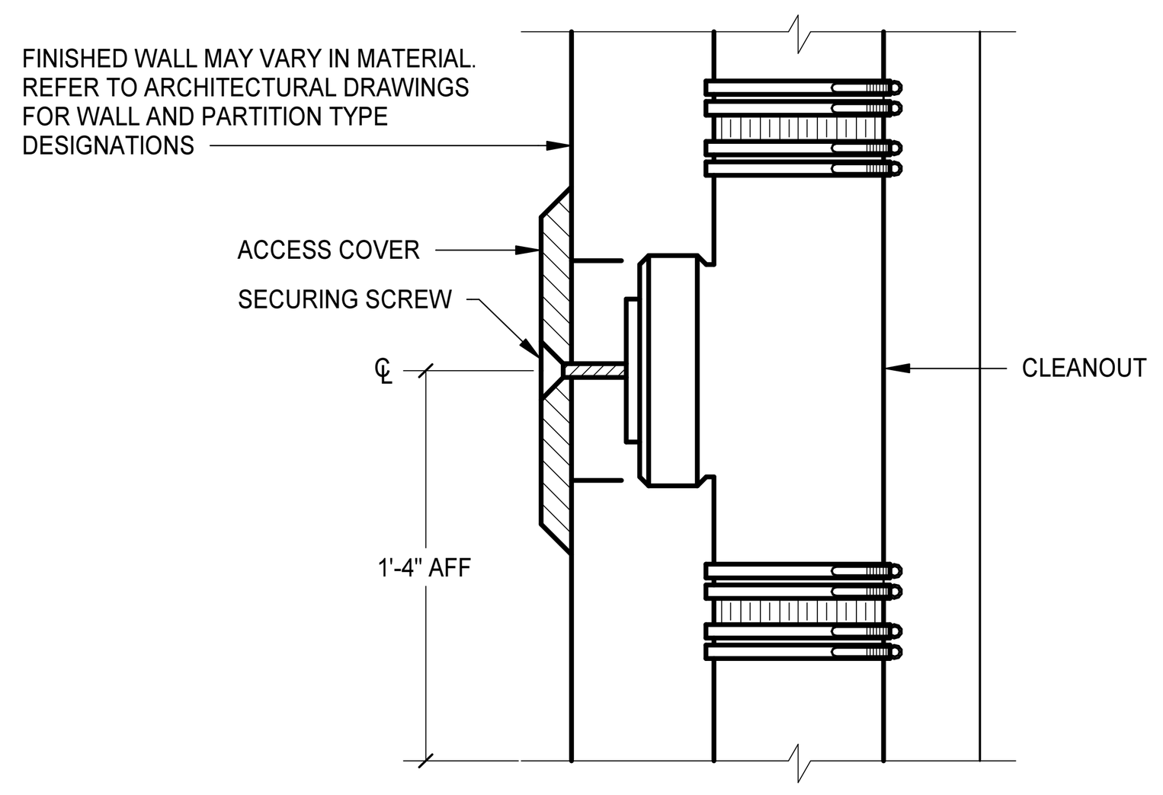


2 SLAB ON GRADE FLOOR DRAIN DECOMMISIONING DETAIL
NO SCALE

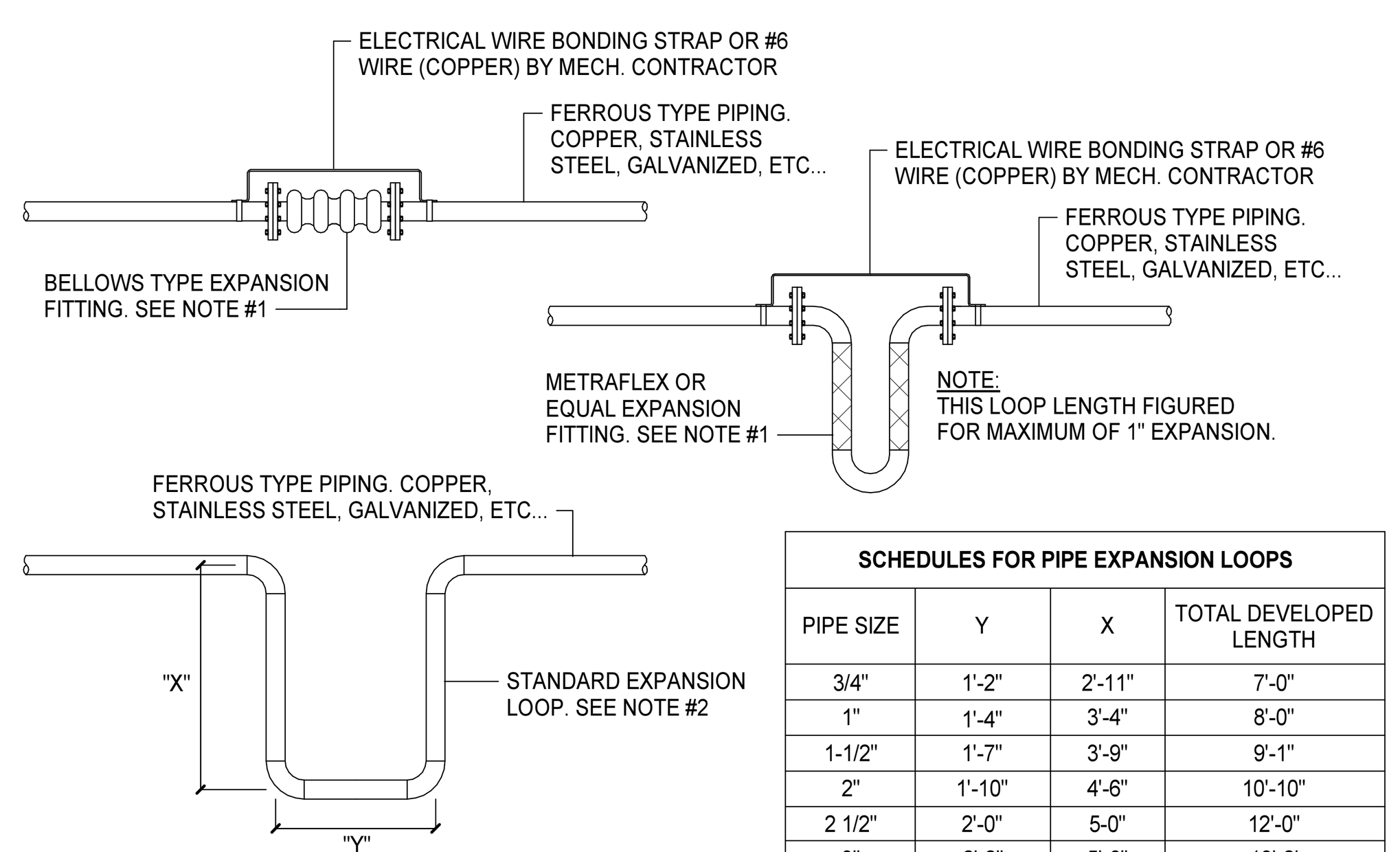
NOTES:
1. FLOW SWITCH ALARM SYSTEM EQUIPMENT BY THE EMERGENCY SHOWER/EYEWASH MANUFACTURER. ALARM SIGNAL TO BUILDING AUTOMATION SYSTEM (BAS). WHEN MULTIPLE EMERGENCY FIXTURES ARE INSTALLED, ALARM SHALL IDENTIFY WHICH UNIT IS IN ALARM.
2. ACTUAL MOUNTING OF ALARM SYSTEM ASSEMBLY SHALL BE TO 1-1/2" TEPID WATER SUPPLY PIPE - ALTERNATE WALL-MOUNTED INSTALLATION SHOWN FOR CLARITY.



1 EMERGENCY COMBINATION EYEWASH/SHOWER DETAIL
NO SCALE



5 WALL CLEANOUT DETAIL
NO SCALE

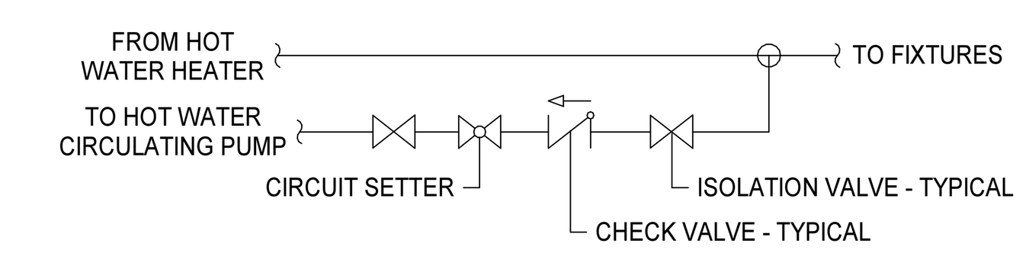


SCHEDULES FOR PIPE EXPANSION LOOPS

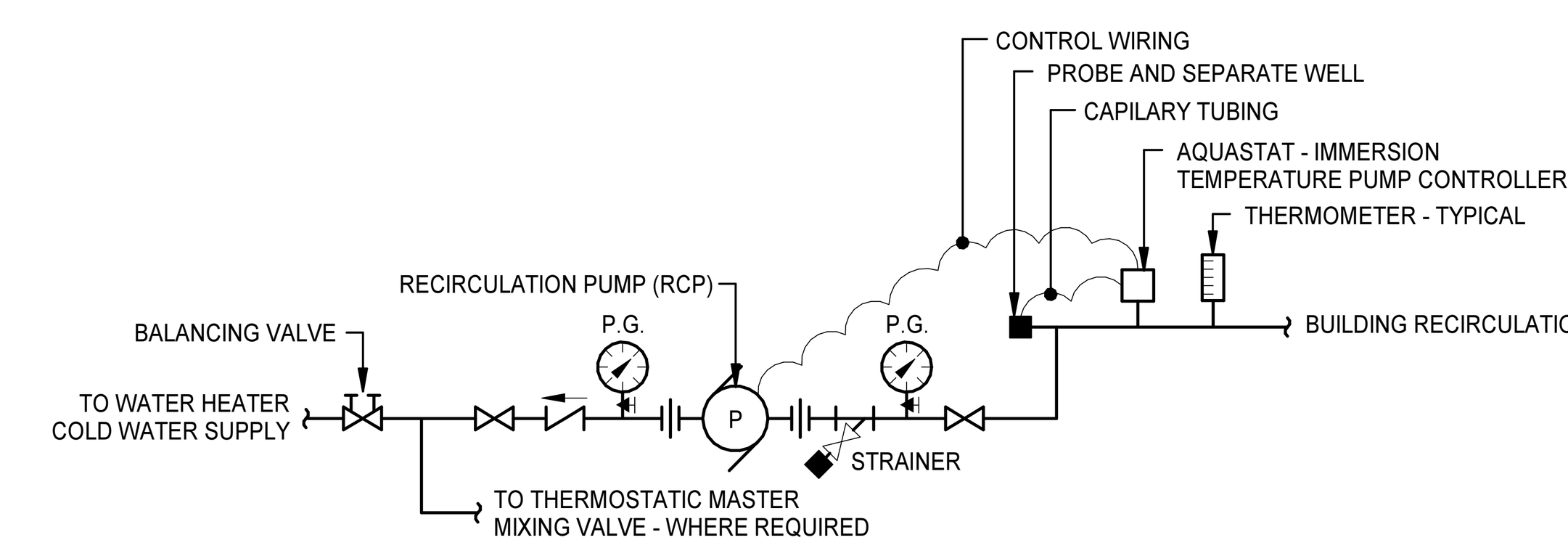
PIPE SIZE	Y	X	TOTAL DEVELOPED LENGTH
3/4"	1'-2"	2'-11"	7'-0"
1"	1'-4"	3'-4"	8'-0"
1-1/2"	1'-7"	3'-9"	9'-1"
2"	1'-10"	4'-6"	10'-10"
2 1/2"	2'-0"	5-0"	12'-0"
3"	2'-2"	5'-6"	13'-2'
4"	2'-7"	6'-6"	15'-7'

NOTES:
1. (3) OPTIONAL TYPE EXPANSION TYPE JOINTS ARE SHOWN. SIZING FOR EXPANSION JOINTS USING FITTINGS SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. EXPANSION LOOP TYPE JOINTS SHALL BE SIZED IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES.
3. PIPE ANCHORS AND GUIDES FOR ALL EXPANSION JOINTS AND LOOPS SHALL BE AS REQUIRED BY MANUFACTURER'S RECOMMENDATIONS AND STANDARD ENGINEERING PRACTICES.

4 PIPE EXPANSION JOINT TYPE DETAIL
NO SCALE

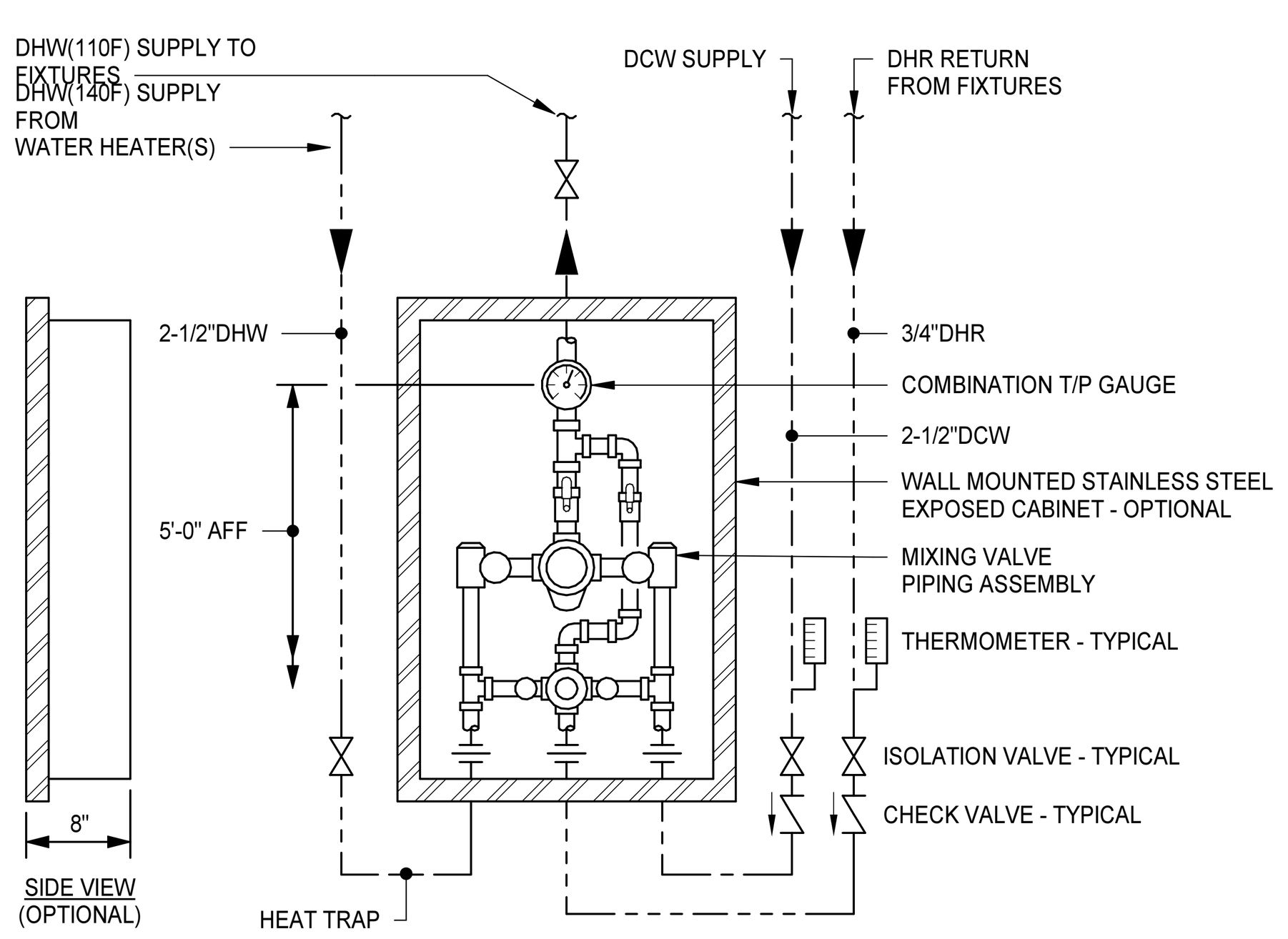


6 HOT WATER RECIRCULATION BRANCH CONNECTION DETAIL
NO SCALE

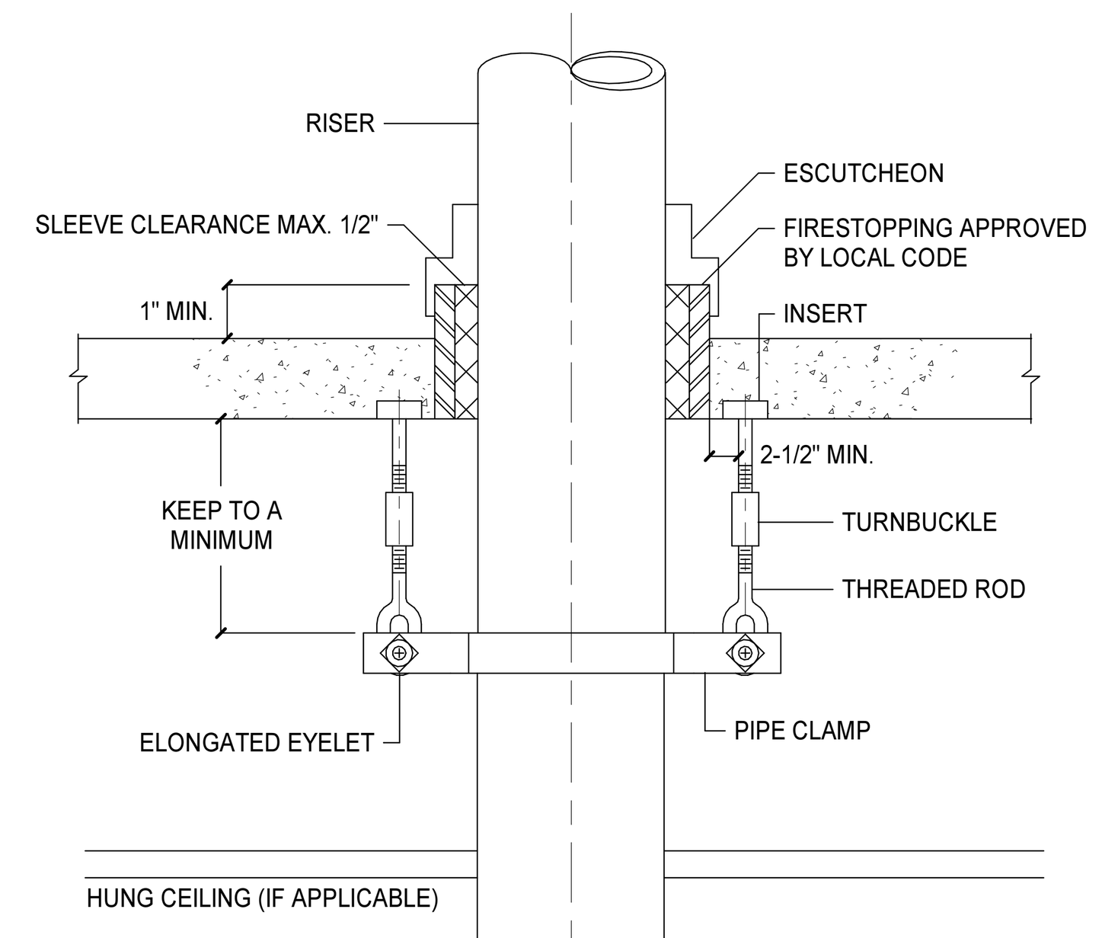


11 CIRCULATION PUMP DETAIL
NO SCALE

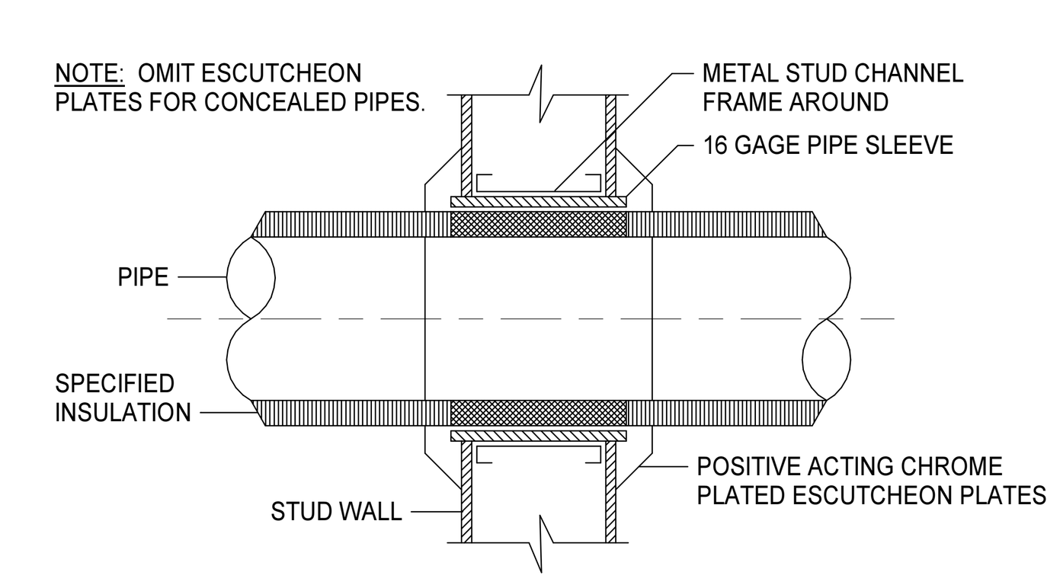
NOTE:
PROVIDE INCREASERS AND DECREASERS AS REQUIRED. PIPING ARRANGEMENTS SHALL MATCH MANUFACTURER'S RECOMMENDED PIPING METHOD



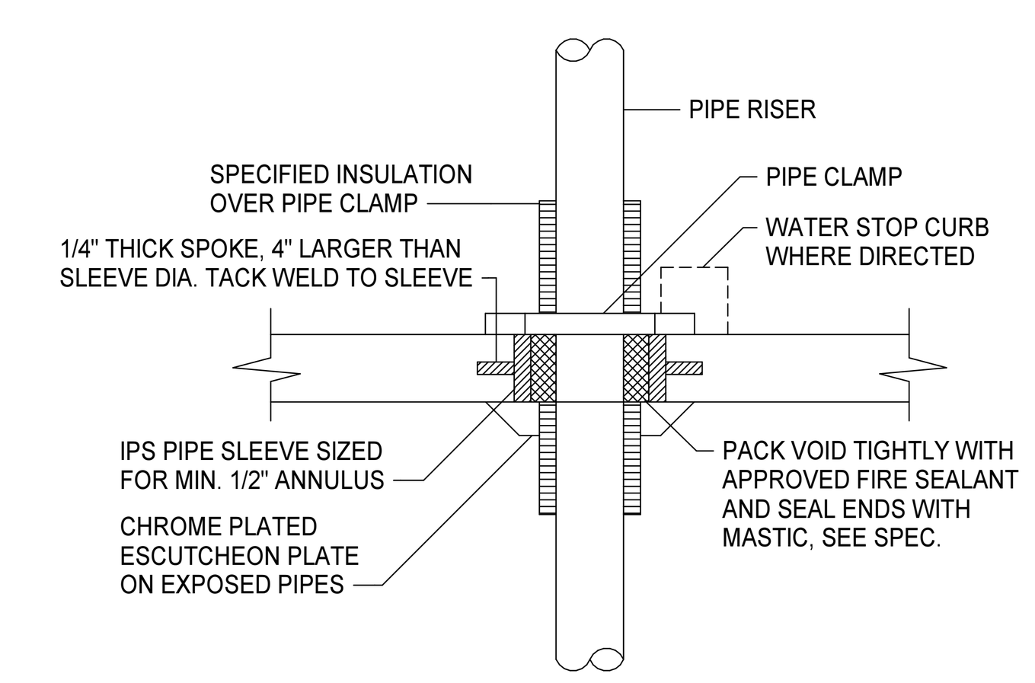
10 THERMOSTATIC MIXING VALVE DETAIL
NO SCALE



9 RISER SUPPORT - EXPOSED AREAS - DETAIL
NO SCALE



8 PIPE THRU STUD WALL DETAIL
NO SCALE



7 PIPE THRU FLOOR SLAB DETAIL
NO SCALE

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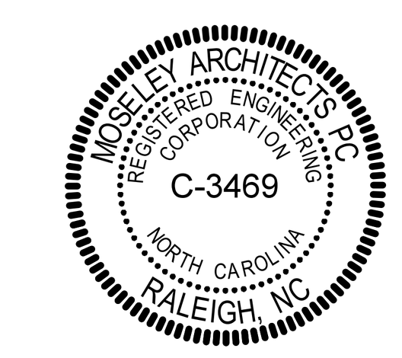

ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA
WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: MAY 15th, 2024

REVISIONS	
DATE	DESCRIPTION

PLUMBING DETAILS

P5.1

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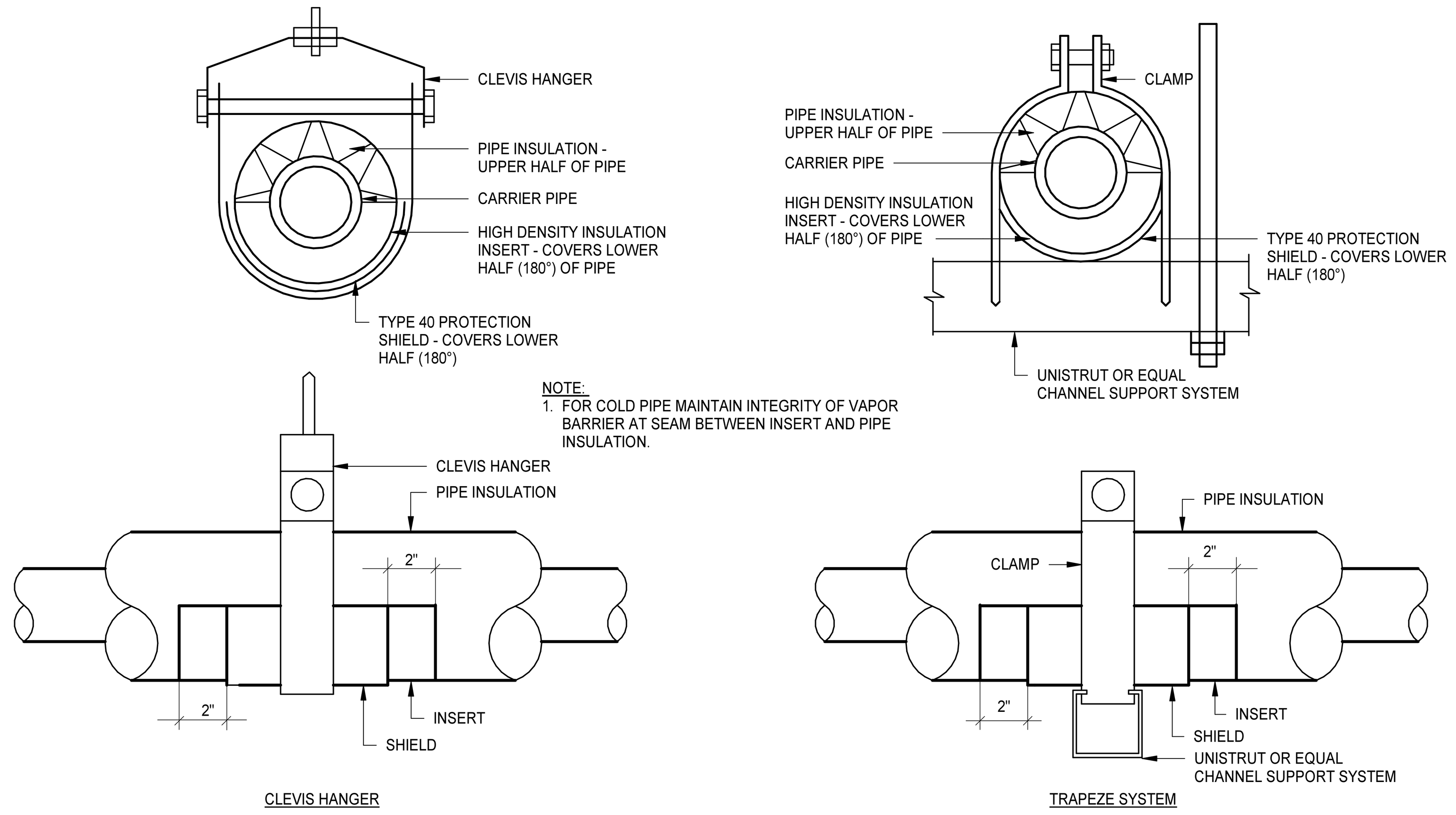
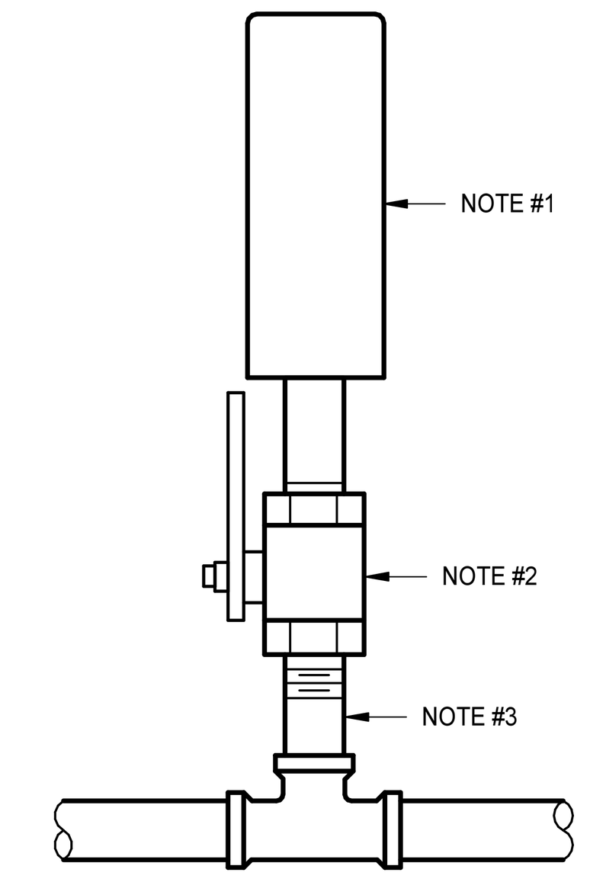


NOTE:
1. FOR COLD PIPE MAINTAIN INTEGRITY OF VAPOR BARRIER AT SEAM BETWEEN INSERT AND PIPE INSULATION.

CLEVIS HANGER

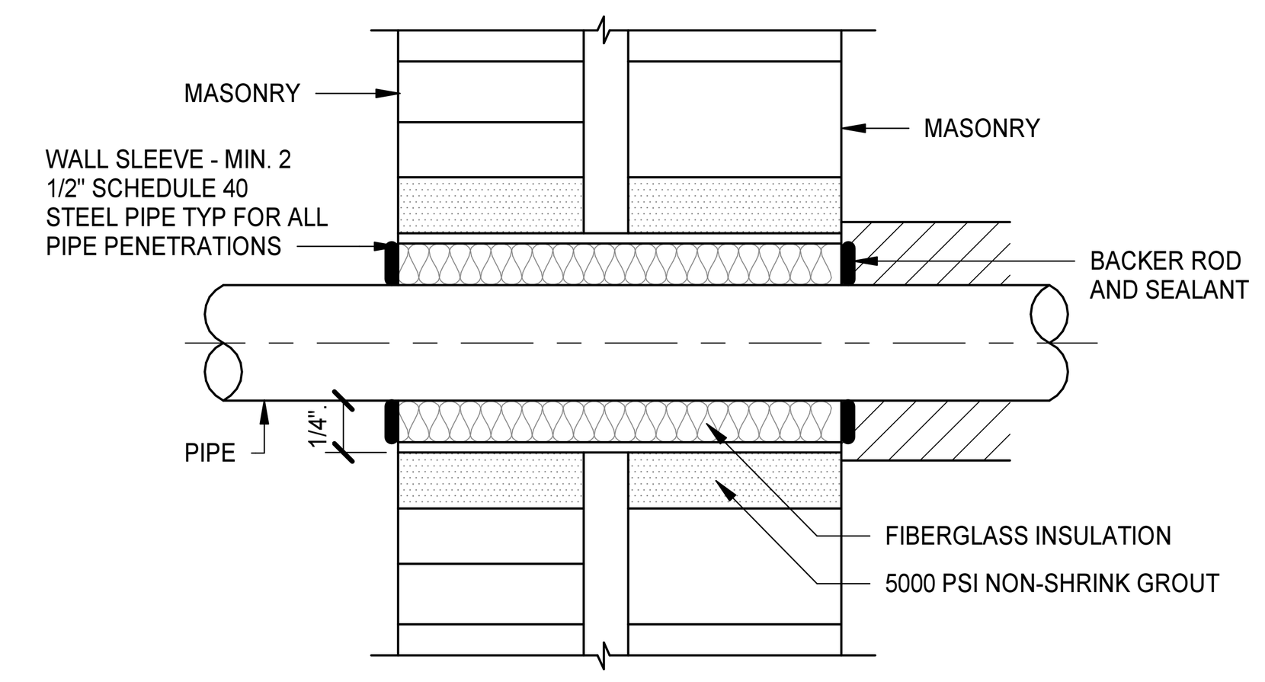
TRAPEZE SYSTEM

4 PIPE SUPPORT AND THERMAL SHIELD DETAILS
NO SCALE



NOTES:
1. WATER HAMMER ARRESTOR.
2. BALL VALVE. VALVE SIZE SHALL BE EQUAL TO NOMINAL SIZE OF ARRESTOR OUTLET (MINIMUM 1/2").
3. BRANCH PIPE EQUAL TO NOMINAL SIZE OF ARRESTOR OUTLET (MINIMUM 1/2").

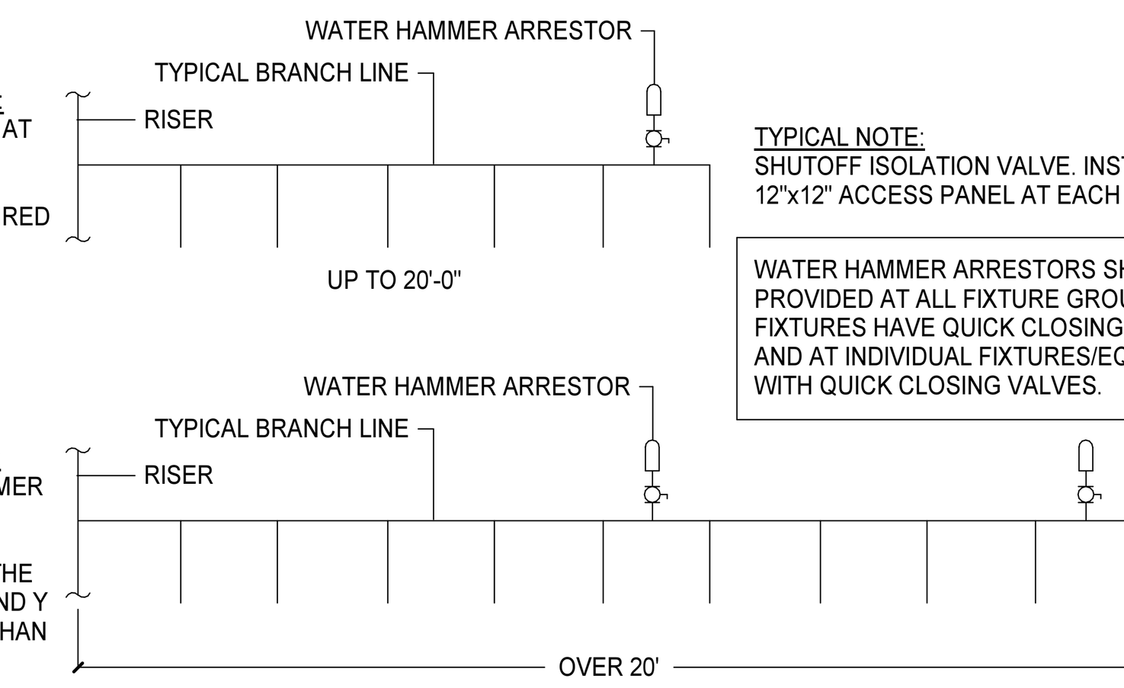
2 WATER HAMMER ARRESTOR DETAIL
NO SCALE



3 PIPE SLEEVE DETAIL
NO SCALE

BRANCH LINES OF 20 FEET OR LESS:
PLACE WATER HAMMER ARRESTOR AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED, AS SHOWN. SELECT REQUIRED MODEL USING FIXTURE UNIT SIZING.

BRANCH LINES EXCEEDING 20 FEET:
PLACE AN ADDITIONAL WATER HAMMER ARRESTOR AS SHOWN AT RIGHT. SELECT REQUIRED MODELS USING FIXTURE UNIT SIZING. THE SUM OF THE FIXTURE UNIT RATING OF UNITS X AND Y SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF THE BRANCHES.



TYPICAL NOTE:
SHUTOFF ISOLATION VALVE. INSTALL 12"x12" ACCESS PANEL AT EACH LOCATION.

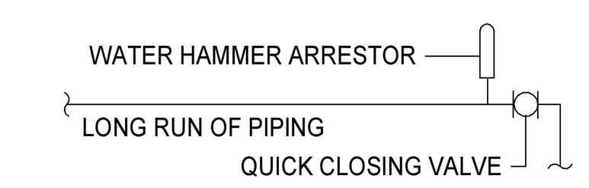
WATER HAMMER ARRESTORS SHALL BE PROVIDED AT ALL FIXTURE GROUPS WHERE FIXTURES HAVE QUICK CLOSING VALVES, AND AT INDIVIDUAL FIXTURES/EQUIPMENT WITH QUICK CLOSING VALVES.

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	EFF
150'	D	E	F	DF	FF	FFF

WHEN LONG RUNS OF PIPING ARE EMPLOYED TO SERVE REMOTE EQUIPMENT, WATER HAMMER ARRESTOR SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE POINT OF QUICK CLOSURE OR HAMMER SOURCE.

THE SIZE AND QUANTITY OF WATER HAMMER ARRESTORS TO BE INSTALLED IN BRANCH LINES IS SHOWN IN TABLE. WHEN FLOR PRESSURE OF 65 PSIG TO 85 PSIG ARE USED, THE NEXT LARGER SIZE SHOULD BE SELECTED.



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

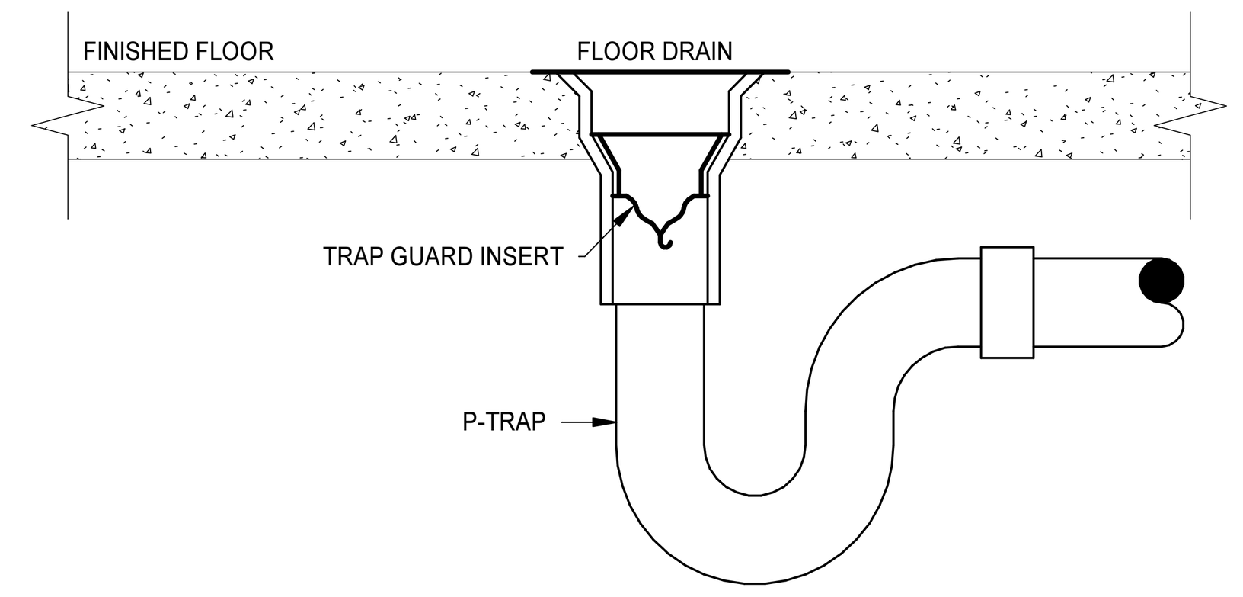
NOTE: MATCH TOTAL FIXTURE UNITS OF BRANCH LINE TO CORRECT SIZE OF WATER HAMMER ARRESTOR.

SHOCK ABSORBER SELECTION

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

SHOCK ABSORBER SELECTION TABLE

1 WATER HAMMER ARRESTOR INSTALLATION & SIZING DETAIL
NO SCALE



TRAP GUARD INSERT DETAIL

5 TRAP PRIMER ASSEMBLY DETAILS
NO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 037569 ENGINEER JASON P. FORSYTH 8/13/24

MOSELEY ARCHITECTS PC REGISTERED ENGINEERING CORPORATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION - AZALEA
WAYNE COMMUNITY COLLEGE
SCO# 16-15906-01C
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: MAY 15th, 2024

REVISIONS	
DATE	DESCRIPTION

PLUMBING DETAILS

P5.2

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INSULATION SCHEDULE

SERVICE	LOCATION	TEMPERATURE	INSULATION	JACKETING	WEATHERPROOFING	MINIMUM INSULATION THICKNESS		NOTES
						PIPES SIZE (IN)	THICKNESS (IN)	
DOMESTIC COLD WATER	INDOORS	40°F - 60°F	ELASTOMERIC	ASJ	NONE	0.50-4.00	1.00	
DOMESTIC HOT WATER AND HOT WATER RETURN	INDOORS	100°F - 200°F	MOLDED FIBERGLASS	ASJ	NONE	0.50-1.00	1.00	
						1.25-1.50	1.50	
						2.00-4.00	2.00	
TEPID WATER AND TEPID WATER RETURN	INDOORS	60°F - 90°F	MOLDED FIBERGLASS	ASJ	NONE	0.50-1.00	1.00	
						1.25-1.50	1.50	
						2.00-4.00	2.00	
STORM DRAINAGE	INDOORS	40°F - 60°F	MOLDED FIBERGLASS	ASJ	NONENONE	2.00-12.00	1.00	1
EXTERIOR DOMESTIC COLD WATER	OUTDOORS	40°F - 60°F	MOLDED FIBERGLASS	ASJ	ALUMINUM JACKET	0.50-4.00	2.00	2
HEAT EXCHANGER	INDOORS	250°F	CALCIUM SILICATE	ALUMINUM JACKET	NONE	N/A	N/A	3

1. PROVIDE INSULATION FOR INDOOR HORIZONTAL STORM DRAINAGE PIPING INCLUDING DRAIN BODY AND OVERFLOW SECONDARY STORM PIPING.
2. PROVIDE OUTDOOR PIPING, EXPOSED TO FREEZE CONDITIONS, TO RECEIVE HEAT TRACING, INSULATION, AND ALUMINUM JACKETING.
3. REFER TO SPECIFICATIONS FOR FIELD APPLIED INSULATION.

DRAIN AND CLEANOUT SCHEDULE

TAG	BASIS OF DESIGN		STRAINER/GRATE	NOTES
	MANUFACTURER	MODEL		
FCO	JOSAM	55000-1	FLOOR CLEANOUT	

PUMP SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	SYSTEM TYPE	PUMP TYPE	OPERATING DATA					ELECTRICAL DATA			CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				FLOW (GPM)	PRESSURE (FT)	EFFICIENCY	POWER (HP)	SPEED (RPM)	VOLTS	PHASE	HERTZ	INLET (IN)	OUTLET (IN)	
RP-1	TACO	L1614 - 1	STORAGE 101	DOM WATER	CIRCULATION	0	0		.125	3250	120	1	60	1"	1"	

1. PROVIDE ECM-CONTROLLED RECIRCULATION PUMP WITH INTEGRAL TEMPERATURE AND PRESSURE SENSORS AND LOGIC. UNIT SHALL BE FULLY ADJUSTABLE FOR VARYING FIELD CONDITIONS.
2. PROVIDE FULLY-PACKAGED, NSF-61 COMPLIANT, VFD OR ECM CONTROLLED, DOMESTIC WATER BOOSTER PUMP SKID WITH EACH PUMP SIZED FOR 50% OF THE TOTAL LOAD. OUTLET PRESSURE SHALL BE SET TO MAINTAIN 70PSIG.
3. PROVIDE OIL-SENSING ELEVATOR SUMP PUMP IN ELEVATOR SUMP PIT WITH AUDIBLE AND VISUAL ALARMS, REMOTE PANEL, AND LINKED TO BAS; MINIMUM FLOW SHALL BE 50GPM PER ELEVATOR CAR/CAB.

BACKFLOW PREVENTER SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	SYSTEM	SIZE	DESIGN FLOW RATE (GPM)	PRESSURE DROP (PSI)	NOTES
	MANUFACTURER	MODEL						
BFP-1	J. R. SMITH	5005	STORAGE 101	DOM WATER	2 1/2"	100	7.00	

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	HEIGHT A.F.F.	BASIS OF DESIGN	PIPE SIZE				NOTES
				COLD WATER	HOT WATER	VENT	SOIL WASTE	
DF-1	BI-LEVEL WATER COOLER (ACCESSIBLE)	TOP OF BUBBLER AT 39", LOWER AT 34"		1/2"		1 1/2"	1 1/2"	
EEWSH-1	COMBINATION DRENCH SHOWER / EYEWASH UNIT	FLOOR MOUNTED	FIXTURE: BRADLEY S19-310UU	1-1/2"	1"	1 1/4"	1 1/4"	
SK-1	SINK - SINGLE BASIN	COUNTER MOUNTED REFER TO ARCH DWGS		1/2"	1/2"	1 1/2"	1 1/2"	

1. THIS ACCESSIBLE FIXTURE, ACCESSORIES, AND INSTALLATION SHALL CONFORM TO THE USBC AND ASAD ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. PROVIDE ASSE-1070 CERTIFIED MIXING VALVE IN STAINLESS STEEL WALL CABINET, ABOVE CEILING, OR BELOW FIXTURE ACCESSIBLE BUT CONCEALED FROM VIEW.

TANK SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	SYSTEM TYPE	TANK TYPE	OPERATING DATA			ASME CODE CONSTRUCTION (YES / NO)	CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				CAPACITY (GAL)	ACCEPTANCE (GAL)	AIR PRE-CHARGE PRESSURE (PSI)		INLET (IN)	OUTLET (IN)	
EX-1	AMTROL	ST-20V-C	STORAGE 101	DOM WATER	EXPANSION	8	3.2	55	YES	3/4"	3/4"	

1. REFER TO MANUFACTURERS RECOMMENDATIONS FOR FINAL PIPING ARRANGEMENT. PROVIDE EQUAL LEG PIPING FOR INLETS AND OUTLETS OF MANIFOLDED STORAGE TANKS TO PROVIDE EVEN DISTRIBUTION AND DRAWOFF.
2. HYDRO-PNEUMATIC TANK BASED ON MINIMUM PUMP OPERATING FLOW OF 13.00 GPM, 75 PSIG CUT-OUT, 65 PSIG CUT-IN. 65 PSIG AIR PRECHARGE PRESSURE, 3.00 MINUTE MINIMUM RUNTIME, AND DRAWDOWN FACTOR OF 0.111. VERIFY FINAL REQUIRED HYDRO-PNEUMATIC TANK VOLUME WITH FINAL PACKAGED PUMP SELECTION AND PERFORMANCE CHARATERISTICS.

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	BASIS OF DESIGN		DESIGN FLOW (GPM)	FLOW RANGE (GPM)	MAX P.D. AT DESIGN FLOW (PSI)	HW SYSTEM TEMPERATURES		CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				INLET (°F)	OUTLET (°F)	INLET (IN)	OUTLET (IN)	
TMV-1	POWERS	LFMM432-1	19	19-66	5	200	160	3/4"	1"	
TMV-2	POWERS	LFSH1432-4	19	19-66	5	200	160	3/4"	1"	

1. PROVIDE ASSE-1070 VALVE FOR ALL PUBLIC LAVATORIES AND SINKS. UNIT SHALL BE MOUNTED CONCEALED FROM VIEW BELOW FIXTURE.

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)	VOLTAGE	PHASE	HERTZ	
EWH-1	AO.SMITH	DEN-80	STORAGE 101	80	24	100	140	6	480	3	60	

1. kW INPUT RATE FOR ELECTRIC WATER HEATERS BASED ON FULL LOAD SIMULTANEOUS OPERATION.
2. PROVIDE PARALLEL INSTALLATIONS WITH PRECISION CUT EQUAL LEG PIPING. REVERSE-RETURN MANIFOLD PIPING, OR MANUFACTURER'S MANIFOLD INSTALLATION KIT. REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS AND RECOMMENDATIONS.

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PLUMBING SCHEDULES

P6.1

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EQUIPMENT IDENTIFICATION

AHU	AIR-HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BCU	BLOWER COIL UNIT
CCC	CLOSED-CIRCUIT COOLING TOWER
CH	CHILLER
CHWP	CHILLED WATER PUMP
CRAC	COMPUTER ROOM AIR CONDTIONER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
ECH	ELECTRIC CEILING HEATER
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
FCU	FAN COIL UNIT
HP	HEAT PUMP
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
OAU	OUTDOOR AIR UNIT
P	PUMP
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTHP	PACKAGED TERMINAL HEAT PUMP
RTU	ROOFTOP UNIT
SSI	SPLIT-SYSTEM INDOOR UNIT
SSO	SPLIT-SYSTEM OUTDOOR UNIT
TU	TERMINAL UNIT
UH	UNIT HEATER
WSHP	WATER-SOURCE HEAT PUMP

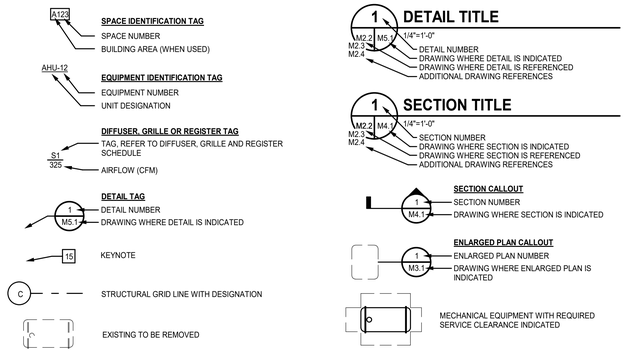
CONTROLS ABBREVIATIONS

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	FREEZESTAT
HS	HUMIDITY SENSOR
POS	POSITION
R	RELAY
SD	SMOKE DETECTOR
SPD	SPEED
SS	START/STOP
STS	STATUS
TS	TEMPERATURE SENSOR
VFD	VARIABLE-FREQUENCY DRIVE

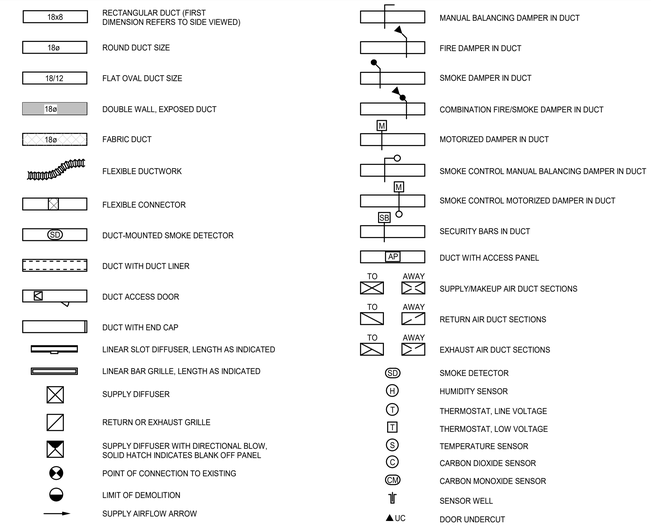
ABBREVIATIONS

A	AMPERE(S)
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
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	DEGREES FAHRENHEIT
FC	FAIL CLOSED
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FPM	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
IPLV	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
RPM	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
WWM	WELDED WIRE MESH

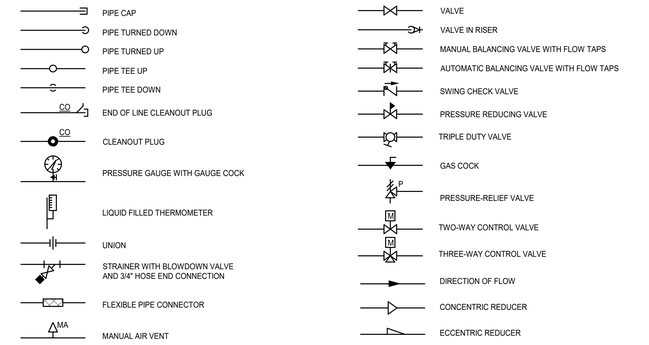
GRAPHICS SYMBOLS LEGEND



DUCTWORK LEGEND



PIPING LEGEND



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 DEFINITIVELY 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 DRAINS 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, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT.

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.

LIFE SAFETY SYMBOL LEGEND

DESIGNATOR MATRIX		
		PARTITION
1 HR FIRE		
EX 2 HR FIRE		

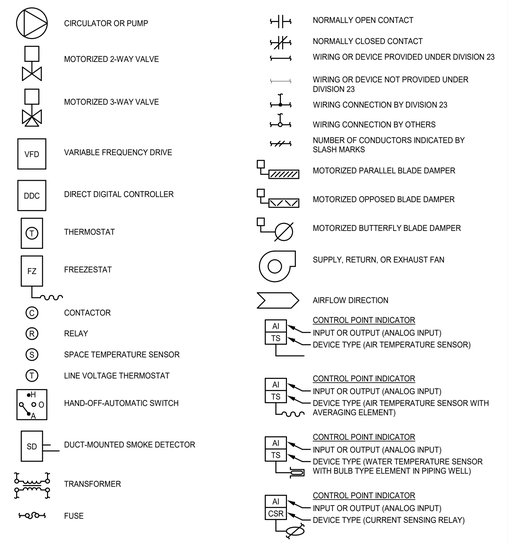
NOTES:

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. INDICATED RATINGS AT EXISTING WALLS ARE EXISTING TO REMAIN, AND ARE BASED ON INFORMATION PROVIDED BY THE OWNER.

CONTROL SYSTEM SYMBOLS



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NORTH CAROLINA PROFESSIONAL SEAL 037569 ENGINEER JOSHUA P FORSYTH 8/8/24

MOSELEY ARCHITECTS PROFESSIONAL CORPORATION ENGINEERING CERTIFICATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS

DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

M0.1

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AIR HANDLING UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SUPPLY FAN(S) DESIGN AIRFLOW (CFM)	SUPPLY FAN(S) MINIMUM AIRFLOW (CFM)	SUPPLY FAN(S) ESP (IN WC)	FAN WHEEL DIAMETER (IN)	FAN WHEEL TYPE	FAN WHEEL FAN SPEED (RPM)	QTY	MOTOR SIZE EACH (HP)	OUTSIDE AIR DESIGN AIRFLOW (CFM)	HYRONIC COOLING COIL TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	EWT (°F)	LWT (°F)	WATER FLOW RATE (GPM)	WATER PRESSURE DROP (FT WC)	HYDRONIC HEATING COIL SENSIBLE CAPACITY (BTUH)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	WATER FLOW RATE (GPM)	WATER PRESSURE DROP (FT WC)	ELECTRICAL DATA SINGLE-POINT DATA UNIT FLA (A)	UNIT MCA (A)	UNIT MOCP (A)	SERVICE (V)	(PH)	(HZ)	WEIGHT (LBS)
AHU-1	TRANE	UCCA-21	10,000	4,500	2.00	21	PLENUM	2345	2	7.5	4,200	549,920	355,220	85.2	70.3	53.0	52.9	48	58	110	20.7	296,480	20.0	55.0	180	160	18	1.1	21.2	26.5	45.0	480	3	60	2,638

FAN SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	AIRFLOW (CFM)	ESP (IN WC)	FAN WHEEL (RPM)	DRIVE TYPE	SONES	CONTROL METHOD	MOTOR (HP)	ELECTRICAL DATA (V)	(PH)	(HZ)	WEIGHT (LBS)	NOTES
F-1	GREENHECK	SQ-120-VG	127 CRIMINAL JUSTICE LAB	INLINE CENTRIFUGAL	1,300	0.40	1378	DIRECT	9	BAS SCHEDULE	1/2	120	1	60	67	1
F-2	GREENHECK	SQ-95-VG	126 ELEC	INLINE CENTRIFUGAL	500	0.40	1472	DIRECT	7.4	BAS SENSOR	1/6	120	1	60	44	1

NOTES:
1. PROVIDE MOTORIZED DAMPER AND INTERLOCK WITH FAN OPERATION.

AHU-1 AIR BALANCE SCHEDULE

SYSTEM NAME	SUPPLY AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	TOTAL EXHAUST AIRFLOW (CFM)	RETURN AIRFLOW (CFM)
AHU-1 SUPPLY	10,000	4,300	3,395	5,700

FAN POWERED TERMINAL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE INLET DIAMETER (IN)	MAXIMUM AIR FLOW (CFM)	MINIMUM AIR FLOW (CFM)	APD AT MAXIMUM AIR FLOW (IN WC)	FAN SIZE	FAN MOTOR (HP)	FAN AIRFLOW (CFM)	FAN ESP (IN WC)	COIL DESIGN AIRFLOW (CFM)	CAPACITY (BTUH)	EAT (°F)	LAT (°F)	FLOW RATE (GPM)	WATER PRESSURE DROP (FT WC)	ROWS (NO)	ELECTRICAL DATA FLA (A)	MCA (A)	MOCP (A)	SERVICE V	PH	HZ	WEIGHT (LBS)
TU1-1	TRANE	VPWF	8	770	400	0.19	03SQ	1/3	370	0.25	770	23,610	62.2	90.5	1.00	0.26	1	4.5	5.6	15	120	1	60	105
TU1-2	TRANE	VPWF	10	960	340	0.09	03SQ	1/3	620	0.25	960	24,640	64.6	88.6	1.00	0.26	1	4.5	5.6	15	120	1	60	105
TU1-3	TRANE	VPWF	10	1,170	430	0.13	03SQ	1/3	740	0.25	1,170	31,680	64.4	89.6	1.50	0.55	1	4.5	5.6	15	120	1	60	105
TU1-5	TRANE	VPWF	10	1,010	290	0.10	03SQ	1/3	720	0.25	1,010	24,860	65.7	88.4	1.00	0.26	1	4.5	5.6	15	120	1	60	105
TU1-7	TRANE	VPWF	8	530	160	0.09	03SQ	1/3	370	0.25	530	13,730	65.5	89.4	0.50	0.21	1	4.5	5.6	15	120	1	60	91
TU1-8	TRANE	VPWF	10	1,110	330	0.11	03SQ	1/3	770	0.25	1,100	25,500	65.5	86.9	1.00	0.26	1	4.5	5.6	15	120	1	60	105
TU1-9	TRANE	VPWF	8	775	400	0.19	03SQ	1/3	375	0.25	775	23,650	62.3	90.4	1.00	0.26	1	4.5	5.6	15	120	1	60	105
TU1-11	TRANE	VPWF	8	720	375	0.16	03SQ	1/3	345	0.25	720	19,850	62.2	87.6	0.75	0.15	1	4.5	5.6	15	120	1	60	105
TU1-12	TRANE	VPWF	10	910	430	0.08	03SQ	1/3	480	0.25	910	24,680	62.9	87.8	1.00	0.26	1	4.5	5.6	15	120	1	60	105
TU1-13	TRANE	VPWF	10	1,240	520	0.14	03SQ	1/3	720	0.25	1,240	32,540	63.7	87.9	1.50	0.55	1	4.5	5.6	15	120	1	60	105

Project Name: 593101.2 - WCC Azalea Loads
Prepared by: Moseley

1. Summary

Ventilation Sizing Method .... **ASHRAE Std 62.1-2010**
Design Condition .... **Minimum flow (heating)**
Occupant Diversity (D) **1.000**
Uncorrected Outdoor Air Intake (Vou) .... **2913** CFM
System Ventilation Efficiency (Ev) **0.700**
Outdoor Air Intake (Vot) .... **4162** CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Minimum Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
133a Corridor	1	144	1717.0	0.06	0.0	0.00	0.8	**129**	103	0.920
101 Storage	1	31	218.0	0.00	0.0	0.00	0.8	**0**	0	1.393
102 Toilet	1	1	32.0	0.00	0.0	0.00	0.8	**0**	0	1.393
103 Janitor	1	1	31.0	0.00	0.0	0.00	0.8	**0**	0	1.393
104 Toilet	1	1	33.0	0.00	0.0	0.00	0.8	**0**	0	1.393
105 Records	1	28	194.0	0.00	0.0	0.00	0.8	**0**	0	1.393
Zone 2										
106 Classroom	1	338	586.0	0.12	20.0	10.00	0.8	**338**	270	0.849
Zone 3										
107 BLET Classroom	1	428	767.0	0.12	25.0	10.00	0.8	**428**	342	0.812
Zone 4										
120 BLET Vault	1	12	294.0	0.00	0.0	0.00	0.8	**0**	0	1.700
121 BLET Office	1	16	115.0	0.06	1.0	5.00	0.8	**15**	12	0.753
122 Office	1	16	115.0	0.06	1.0	5.00	0.8	**15**	12	0.753
Zone 5										
108 MILO Range Theater	1	244	689.0	0.12	10.0	10.00	0.8	**228**	183	0.882
108A Storage	1	7	39.0	0.00	0.0	0.00	0.8	**0**	0	1.442
Zone 6										
109 Copy/Break	1	51	132.0	0.12	5.0	5.00	0.8	**51**	41	0.700
110 Office	1	16	115.0	0.06	1.0	5.00	0.8	**15**	12	0.753
113 Office	1	16	111.0	0.06	1.0	5.00	0.8	**15**	12	0.762
Zone 7										
111 Office	1	82	139.0	0.06	1.0	5.00	0.8	**17**	13	1.276
112 Office	1	27	105.0	0.06	1.0	5.00	0.8	**14**	11	1.115
133c Corridor	1	49	168.0	0.06	0.0	0.00	0.8	**13**	10	1.249
Zone 8										
114 Emergency Dispatch L	1	329	705.0	0.12	12.0	10.00	0.8	**256**	205	0.981
Zone 9										
132 Corridor	1	213	515.0	0.06	0.0	0.00	0.8	**39**	31	1.293

Project Name: 593101.2 - WCC Azalea Loads
Prepared by: Moseley

117 Men	1	9	216.0	0.00	0.0	0.00	0.8	**0**	0	1.387
Zone 10										
118 Multipurpose Storage	1	10	233.0	0.00	0.0	0.00	0.8	**0**	0	1.700
119 Multipurpose Classro	1	753	1187.0	0.12	46.0	10.00	0.8	**753**	602	0.700
Zone 11										
130 Classroom	1	373	655.0	0.12	22.0	10.00	0.8	**373**	299	0.806
Zone 12										
129 Classroom	1	417	699.0	0.12	25.0	10.00	0.8	**417**	334	0.815
133b Corridor	1	26	154.0	0.06	0.0	0.00	0.8	**12**	9	1.190
Zone 13										
127 Criminal Justice Lab	1	515	1349.0	0.12	25.0	10.00	0.8	**515**	412	0.841
Totals (incl. Space Multipliers)		**4162**							**2913**	**0.700**

TERMINAL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE INLET DIAMETER (IN)	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	APD AT MAX AIR FLOW (IN-WC)	COIL DESIGN AIRFLOW (CFM)	CAPACITY (BTUH)	EAT (°F)	LAT (°F)	FLOW RATE (GPM)	FLUID PRESSURE DROP (FT WC)	ROWS (NO)	WEIGHT (LBS)	NOTES
TU1-4	TRANE	VCWF	4	210	100	0.06	100	6,150	55	111.7	0.5	0.50	1	21	-
TU1-6	TRANE	VCWF	5	290	100	0.09	100	6,150	55	111.7	0.5	0.50	1	21	-
TU1-10	TRANE	VCWF	10	1,040	760	0.42	760	29,880	55	91.3	1.0	0.18	2	29	-
TU1-14	TRANE	VCCF	6	400	200	0.09								21	1
TU1-15	TRANE	VCCF	5	300	60	0.01								21	1

NOTES:
1. UNIT IS COOLING ONLY.

PUMP SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	LOCATION	TYPE	OPERATING DATA FLOW (GPM)	HEAD (FT WC)	EFFICIENCY (%)	SUCTION SIZE (IN)	DISCHARGE SIZE (IN)	IMPELLER SIZE (IN)	MOTOR RPM	MOTOR (HP)	ELECTRICAL DATA V	PH	HZ
P-3	BELL & GOSSETT	2BC	HOT WATER LOOP	124 MECHANICAL	BASE MOUNTED	131.0	65	71.4	2.5	2.0	8.500	1800	5	480	3	60
P-4	BELL & GOSSETT	e1510-2½BB	CHILLED WATER LOOP	124 MECHANICAL	BASE MOUNTED	267.0	75	77.3	3.0	2.5	9.500	1800	10	480	3	60

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	MOUNTING STYLE	NECK SIZE	FACE SIZE	MAX NC LEVEL	NOTES
S1	PRICE	ASCD	LAY-IN	6"	24x24	30	-
S2	PRICE	ASCD	LAY-IN	8"	24x24	30	-
S3	PRICE	ASCD	LAY-IN	10"	24x24	30	-
S4	PRICE	VPD-HC	LAY-IN	6"	24x24	30	-
S5	PRICE	610-F-L	SURFACE	6x6	8x8	30	-
S6	PRICE	610-F-L	SURFACE	12x8	14x10	30	-
S7	PRICE	SDBI-100-2	LAY-IN	8"	-	30	1
R1	PRICE	635-TB-L	LAY-IN	22x22	24x24	30	-
R2	PRICE	635-F-L	SURFACE	12x12	14x14	30	-
E1	PRICE	635-F-L	SURFACE	12x12	14x14	30	-
E2	PRICE	635-TB-L	LAY-IN	22x22	24x24	30	-
T1	PRICE	635-TB-L	LAY-IN	22x22	24x24	30	-
T2	PRICE	635-TB-L	LAY-IN	22x10	24x12	30	-

NOTES:
1. PROVIDE 48" LONG, INSULATED SDBI LINEAR SLOT PLENUM WITH 8" NECK FOR EACH.

MOSELEYARCHITECTS
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL SEAL 037569 ENGINEER JASON P. FORSYTH 8/15/24

MOSELEY ARCHITECTS, PC REGISTERED ENGINEERING CORPORATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

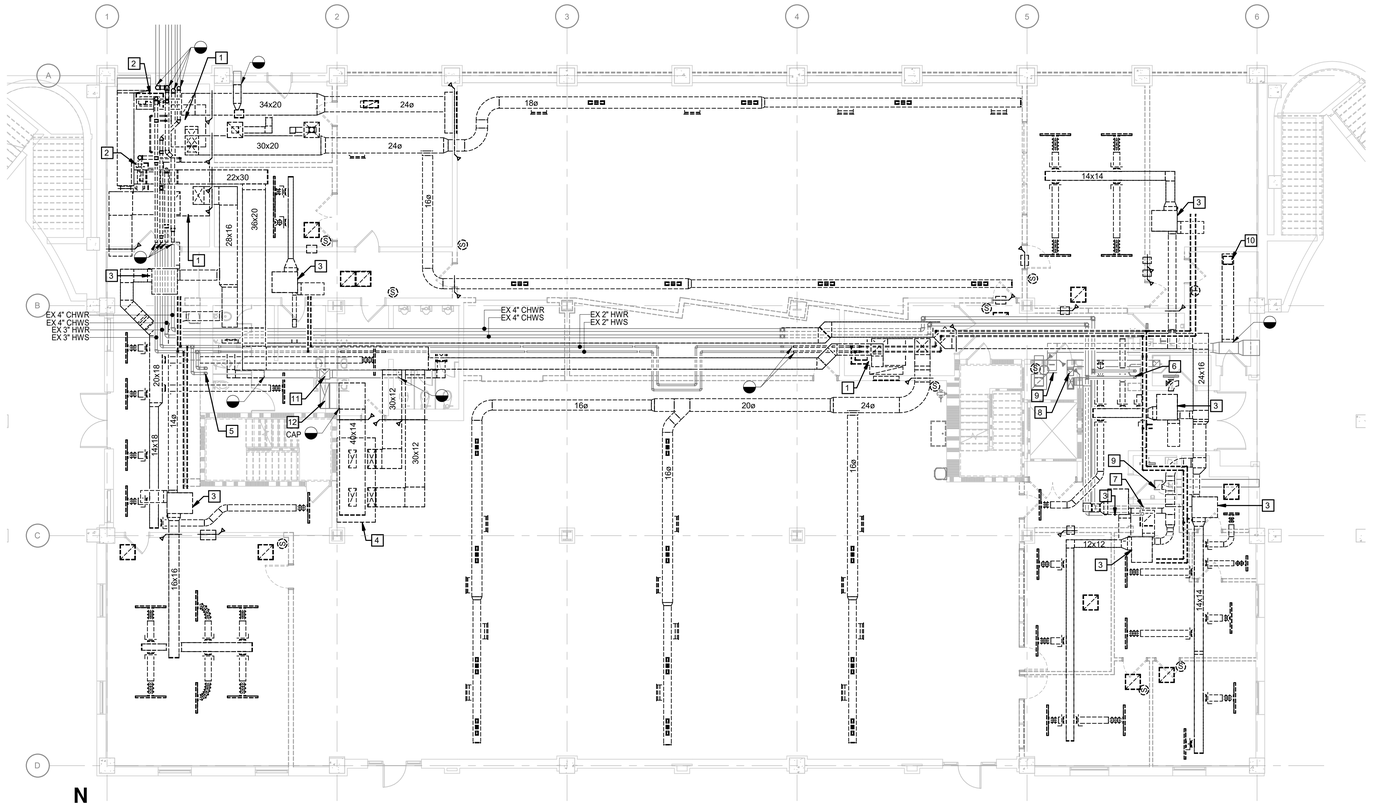
SCHEDULES

M0.2

KEYNOTES1

APPLIES TO THIS DRAWING

1	REMOVE EXISTING AIR HANDLING UNIT AND ALL ACCESSORIES AND CONTROLS.
2	REMOVE EXISTING PUMP AND ALL ASSOCIATED ACCESSORIES AND CONTROLS.
3	REMOVE EXISTING TERMINAL UNIT AND ALL ASSOCIATED CONTROLS. REMOVE EXISTING PIPING ACCESSORIES AND CAP PIPE.
4	REMOVE EXISTING CANOPY HOOD AND ASSOCIATED FAN.
5	EX 3" HWS & HWR UP.
6	EX 2-1/2" CHWS & CHWR UP.
7	EX 4" CHWS & CHWR UP.
8	EX 10x10 UP.
9	EXISTING CEILING FAN TO REMAIN.
10	REMOVE EXISTING CEILING FAN AND ASSOCIATED CONTROLS.
11	EX 16x16 UP.
12	EX 14x40 UP.



FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

MOSELEYARCHITECTS

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NORTH CAROLINA PROFESSIONAL SEAL 037569 ENGINEER JOSEPH P FORSYTH 8/13/24

MOSELEY ARCHITECTS P.C. REGISTERED ENGINEERING CORPORATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

DEMOLITION PLAN

M1.1

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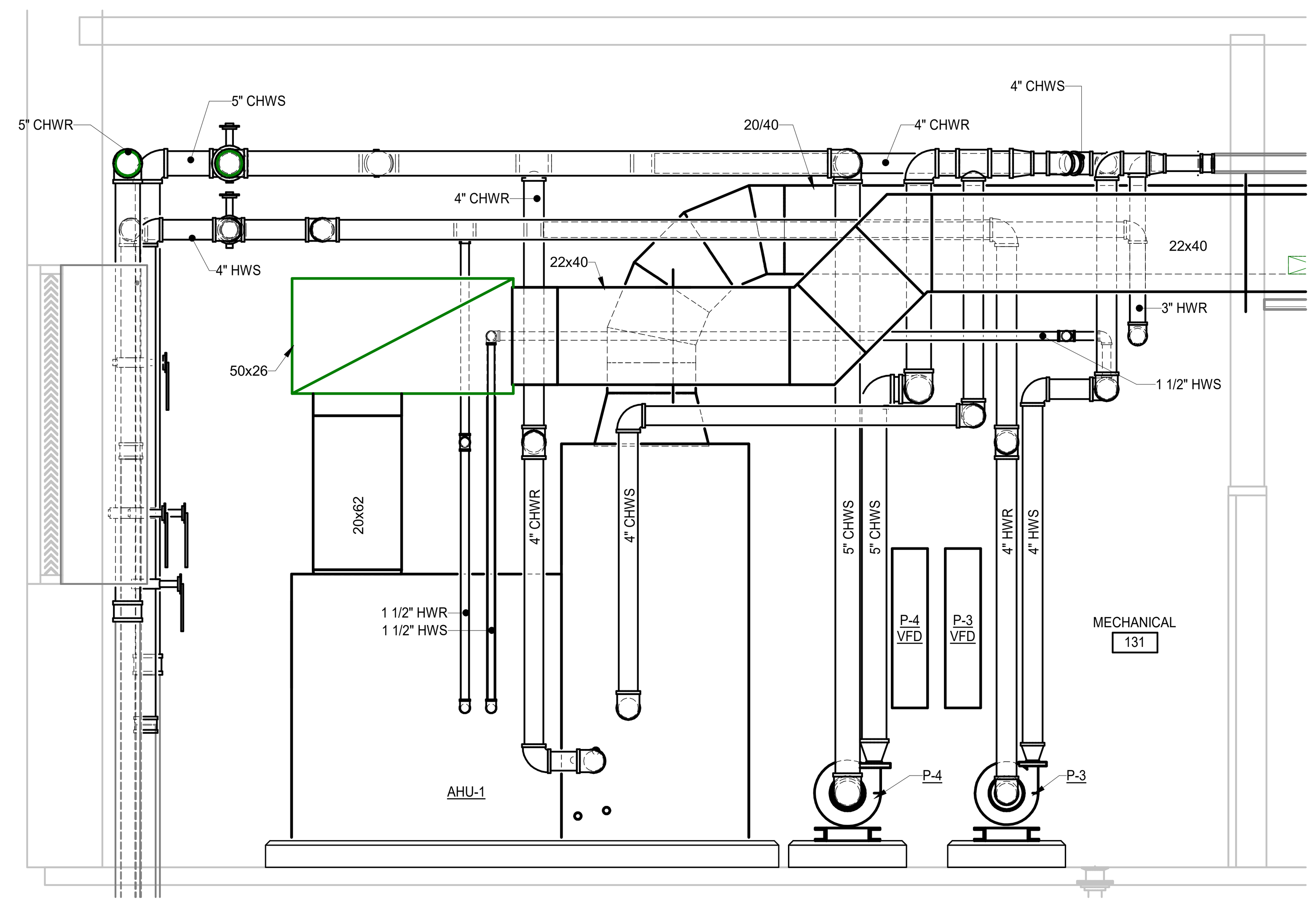
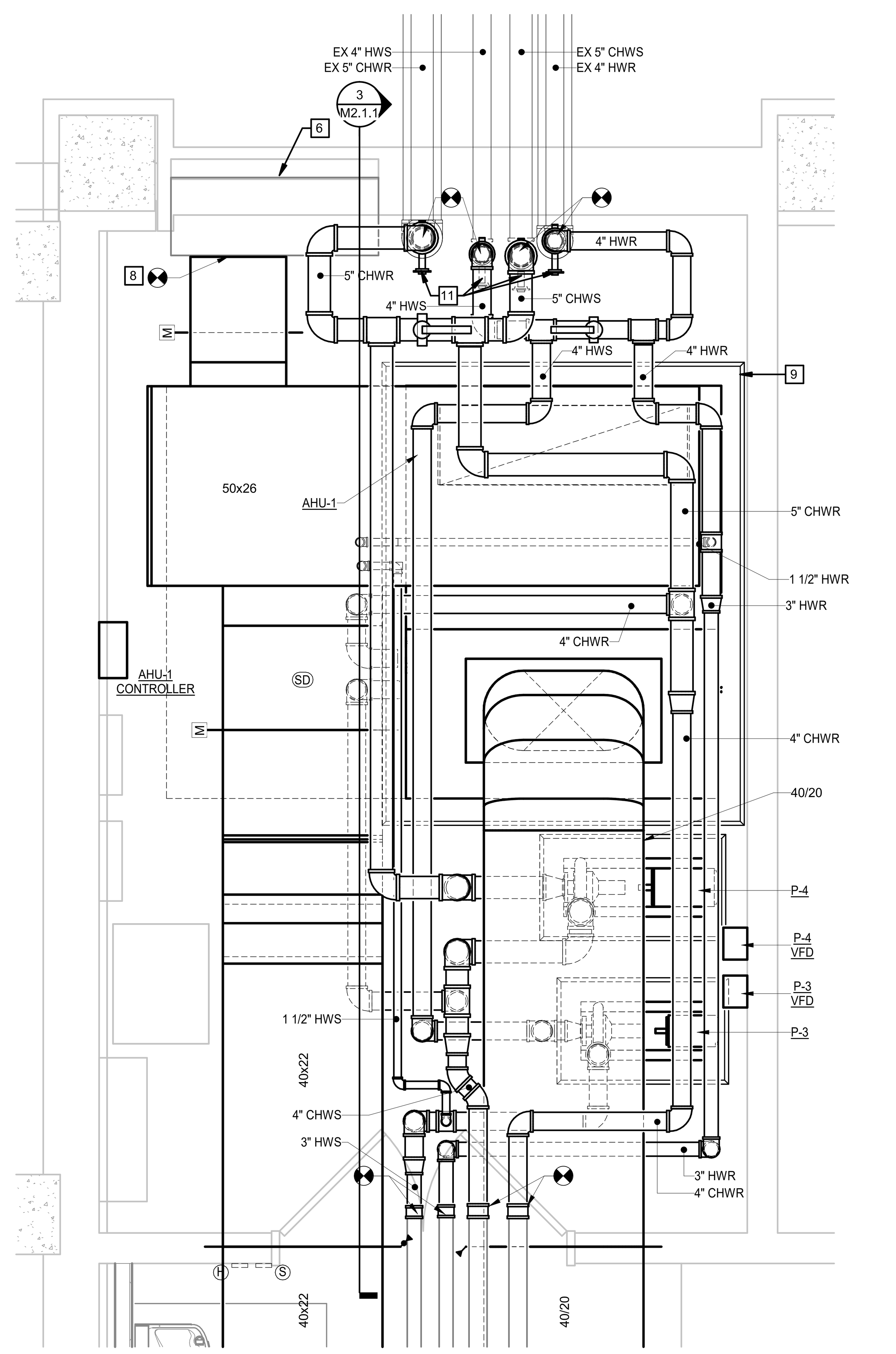
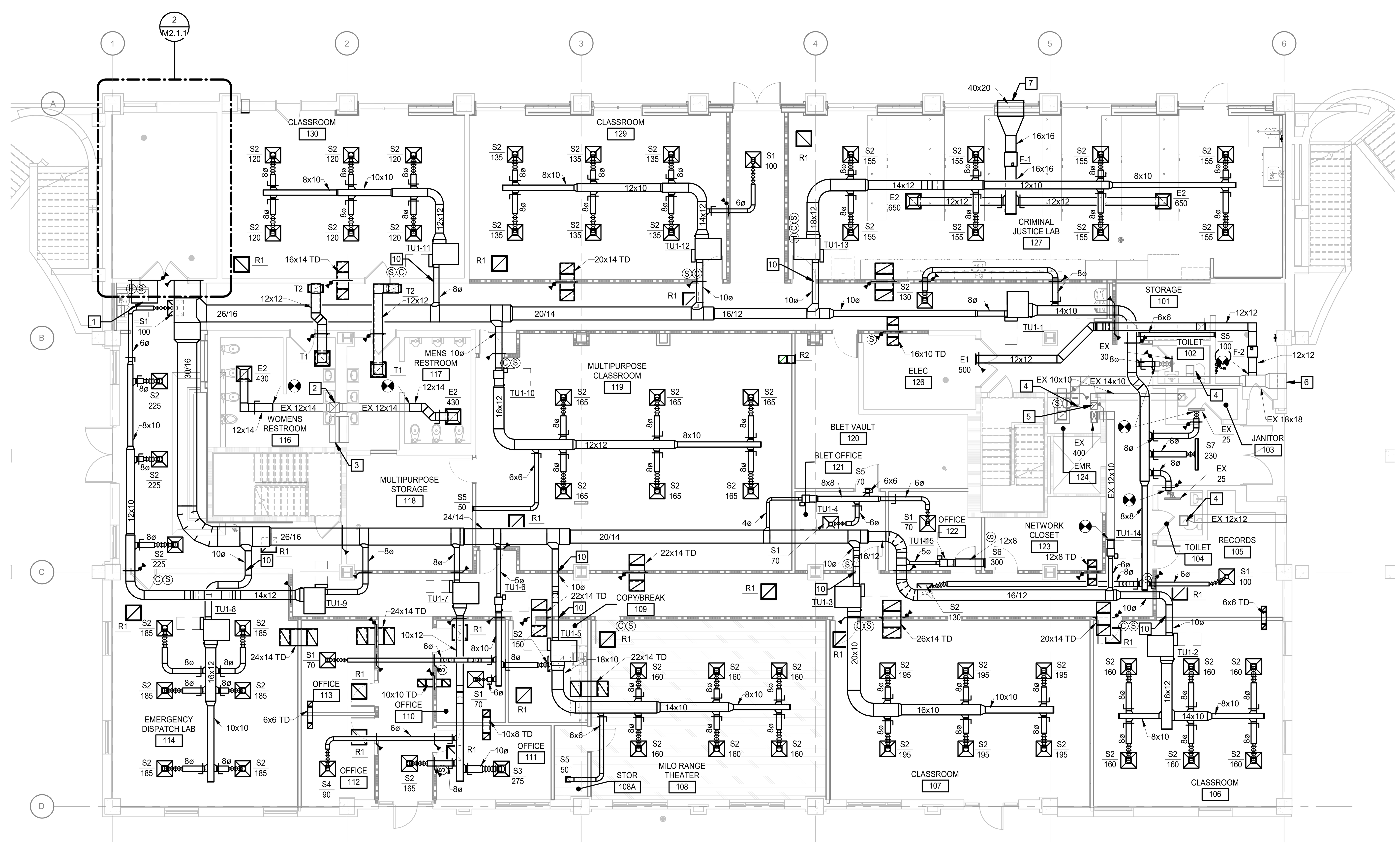


3 SECTION
M2.1.1 M2.1.1 1/2" = 1'-0"



2 MECHANICAL ROOM ENLARGED PLAN
M2.1.1 M2.1.1 1/2" = 1'-0"



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

KEYNOTES1

APPLIES TO THIS DRAWING

1	OPEN END DUCT. COVER WITH 1/2" x 1/2" WELDED WIRE MESH.
2	EX 16x16 UP.
3	EX 14x40 UP.
4	EXISTING CEILING FAN TO REMAIN.
5	EX 10x10 UP.
6	EX LOUVER.
7	CONNECT TO LOUVER.
8	CONNECT TO EXISTING LOUVER.
9	CONCRETE HOUSEKEEPING PAD. SEE DETAIL ON DRAWING M5.2.
10	INSTALL DUCT PENETRATION THROUGH FIRE PARTITION IN ACCORDANCE WITH NC BUILDING CODE SECTION 717.5.4 EXCEPTION 3. DUCT SHALL NOT EXCEED 100 SQUARE INCHES, SHALL BE CONSTRUCTED OF STEEL NOT LESS THAN 0.0217 INCH THICKNESS, SHALL NOT HAVE OPENINGS THAT COMMUNICATE THE CORRIDOR WITH ADJACENT SPACES OR ROOMS, SHALL BE INSTALLED ABOVE A CEILING, AND SHALL HAVE A MINIMUM 12-INCH-LONG BY 0.060-INCH-THICK STEEL SLEEVE CENTERED IN EACH DUCT OPENING. THE SLEEVE SHALL BE SECURED TO BOTH SIDES OF THE WALL AND ALL FOUR SLIDES OF THE SLEEVE WITH MINIMUM 1-1/2" BY 1-1/2" BY 0.060" STEEL RETAINING ANGLES. THE RETAINING ANGLES SHALL BE SECURED TO THE SLEEVE AND THE WALL WITH NO.10 (M5) SCREWS. THE ANNULAR SPACE BETWEEN THE STEEL SLEEVE AND THE WALL OPENING SHALL BE FILLE WITH MINERAL WOOL BATTING ON ALL SIDES.
11	MANUAL ISOLATION VALVES FOR BUILDING SHUT-OFF.

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MOSELEY ARCHITECTS PC REGISTERED ENGINEERING CORPORATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR PLAN - DUCTWORK

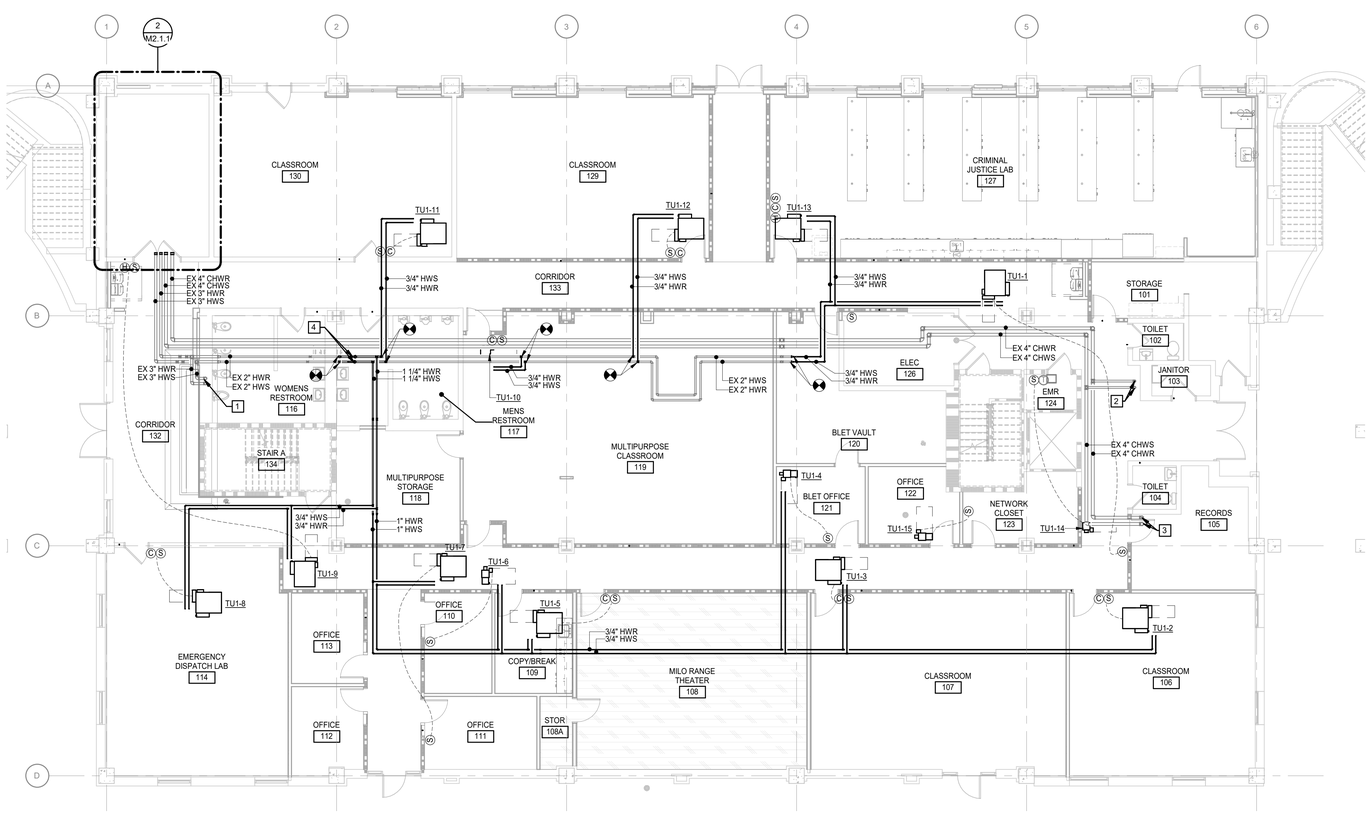
M2.1.1

8/27/2024 11:58:19 AM

KEYNOTES1

APPLIES TO THIS DRAWING

1	EX 3" HWS & HWR UP.
2	EX 2-1/2" CHWS & CHWR UP.
3	EX 4" CHWS & CHWR UP.
4	MANUAL ISOLATION VALVES FOR FIRST FLOOR.



N

FIRST FLOOR PLAN - PIPING

1/8" = 1'-0"

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MOSELEY ARCHITECTS, P.C. REGISTERED ENGINEERING CORPORATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR PLAN - PIPING

M2.1.2

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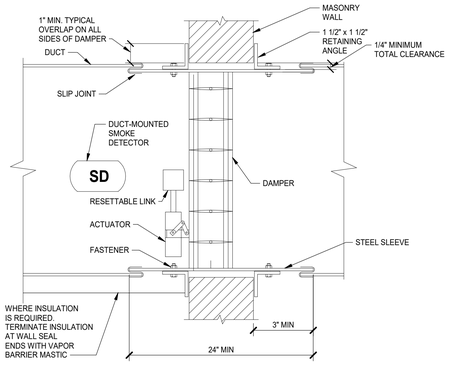
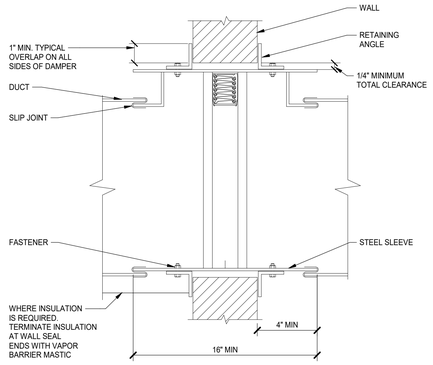


NOTE: THIS DETAIL IS BASED ON GREENHECK MODEL FSD-331. ALL COMBINATION FIRE-SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MODEL USED.

COMBINATION FIRE-SMOKE DAMPER INSTALLATION DETAIL

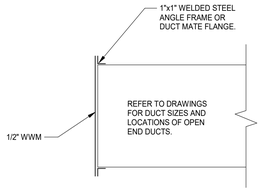
NO SCALE



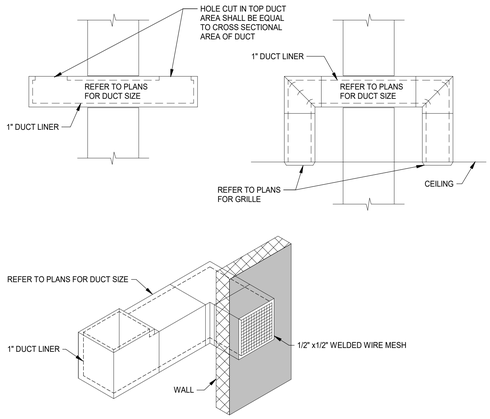
NOTE: THIS DETAIL IS BASED ON GREENHECK MODEL FD150. ALL FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MODEL USED.

FIRE DAMPER INSTALLATION DETAIL - TYPE B (VERTICAL)

NO SCALE

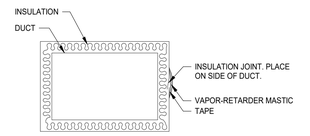


OPEN END DUCT DETAIL



TRANSFER DUCT DETAIL

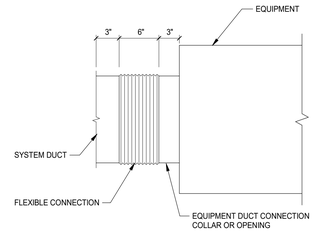
NO SCALE



REFER TO SPECIFICATION SECTION 230700 FOR ADDITIONAL INFORMATION.

DUCT INSULATION JOINT DETAIL

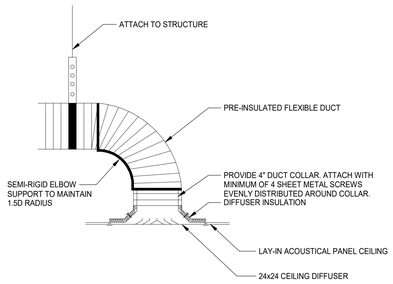
NO SCALE



NOTE: THIS DETAIL APPLIES TO ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND FANS UNLESS OTHERWISE INDICATED

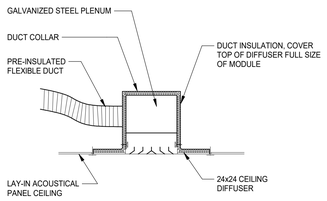
EQUIPMENT DUCT CONNECTION DETAIL

NO SCALE



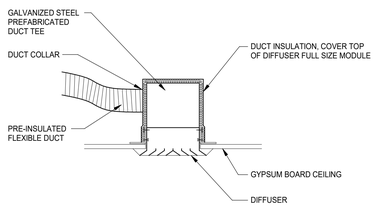
SUPPLY DIFFUSER CONNECTION LAY-IN-COLLAR

NO SCALE



SUPPLY DIFFUSER CONNECTION LAY-IN

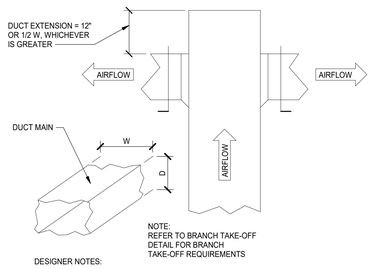
NO SCALE



NOTE: THE DIFFUSER ASSEMBLY MAY BE SUPPORTED FROM THE CEILING FRAMING SYSTEM. THE DIFFUSER SHALL BE INSTALLED LEVEL AND TIGHT TO THE UNDERSIDE OF THE CEILING.

SUPPLY DIFFUSER CONNECTION GYP

NO SCALE

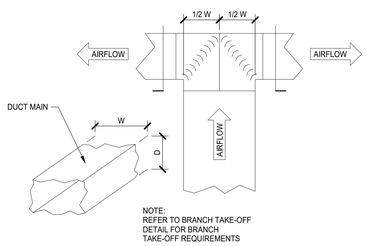


DESIGNER NOTES:

USE WHERE "W" IS LESS THAN 24", WHEN YOU HAVE ROUND DUCT BRANCHES TO DIFFUSERS, OR WHEN AIR FLOW IS EQUAL TO OR LESS THAN 1500 CFM.

DUCT SPLIT WITHOUT VANES DETAIL

NO SCALE



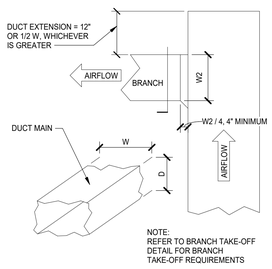
DESIGNER NOTES:

USE WHERE "W" EXCEEDS 24" OR WHEN AIR FLOW IS IN EXCESS OF 1500 CFM.

MAY BE PROPORTIONAL

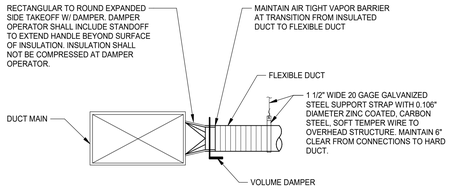
DUCT SPLIT WITH VANES DETAIL

NO SCALE



DUCT END OF MAIN DETAIL

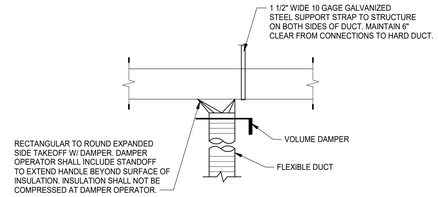
NO SCALE



NOTES:
- FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED W/ A SINGLE NYLON MECHANICAL BAND.
- IN EXPOSED AREAS PROVIDE RIGID GALVANIZED STEEL DUCTWORK IN LIEU OF FLEXIBLE DUCTWORK INDICATED. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR STEEL DUCTWORK.

BRANCH TAKEOFF TO DIFFUSER-SIDE

NO SCALE



NOTES:
- FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED W/ A SINGLE NYLON MECHANICAL BAND.
- IN EXPOSED AREAS PROVIDE RIGID GALVANIZED STEEL DUCTWORK IN LIEU OF FLEXIBLE DUCTWORK INDICATED. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR STEEL DUCTWORK.

BRANCH TAKEOFF TO DIFFUSER-BOTTOM

NO SCALE

MOSELEY ARCHITECTS
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL SEAL 037569 8/8/24 ENGINEER JOHN P. FORSYTH

MOSELEY ARCHITECTS, P.C. REGISTERED ENGINEERING CORPORATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

DETAILS

M5.1

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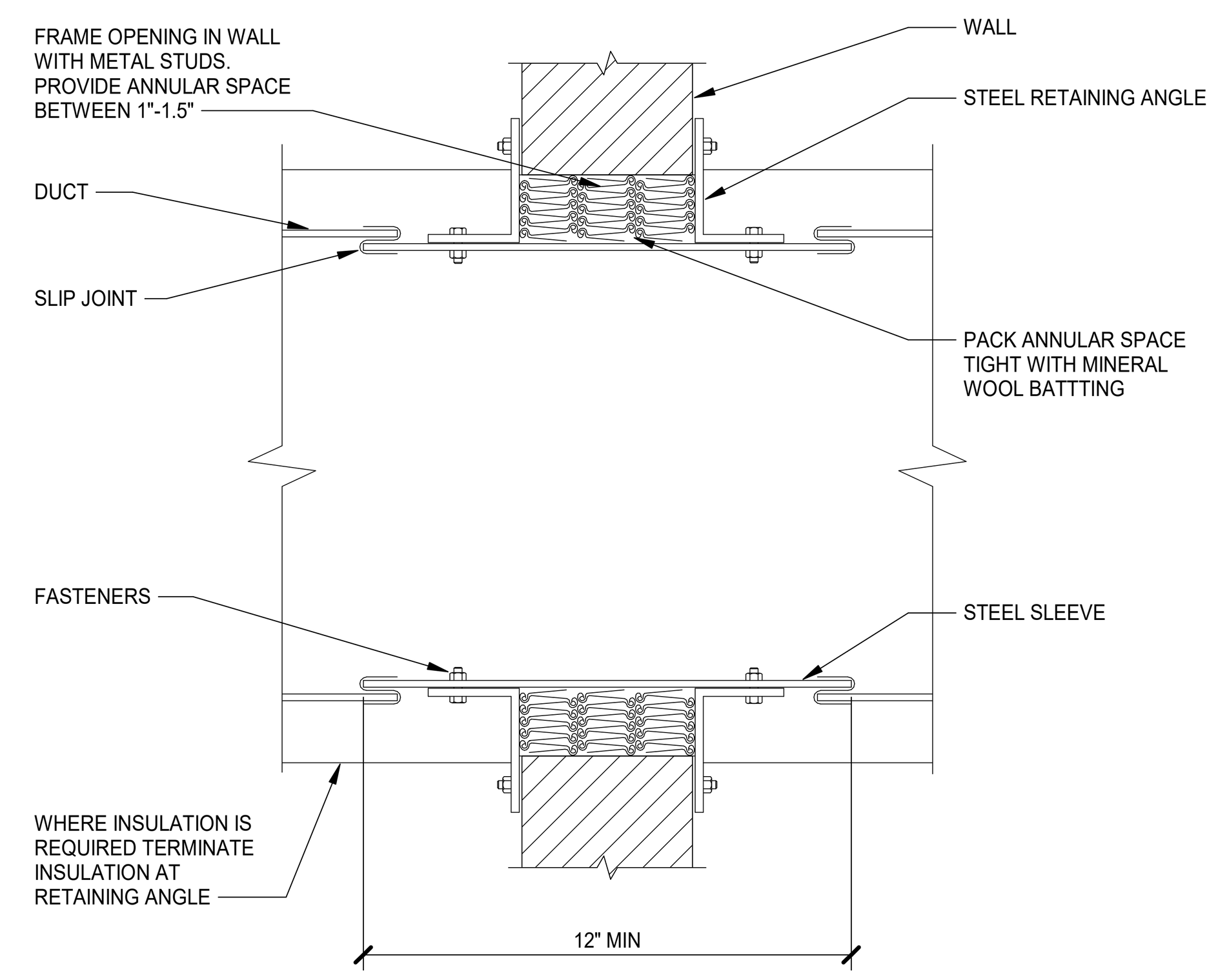
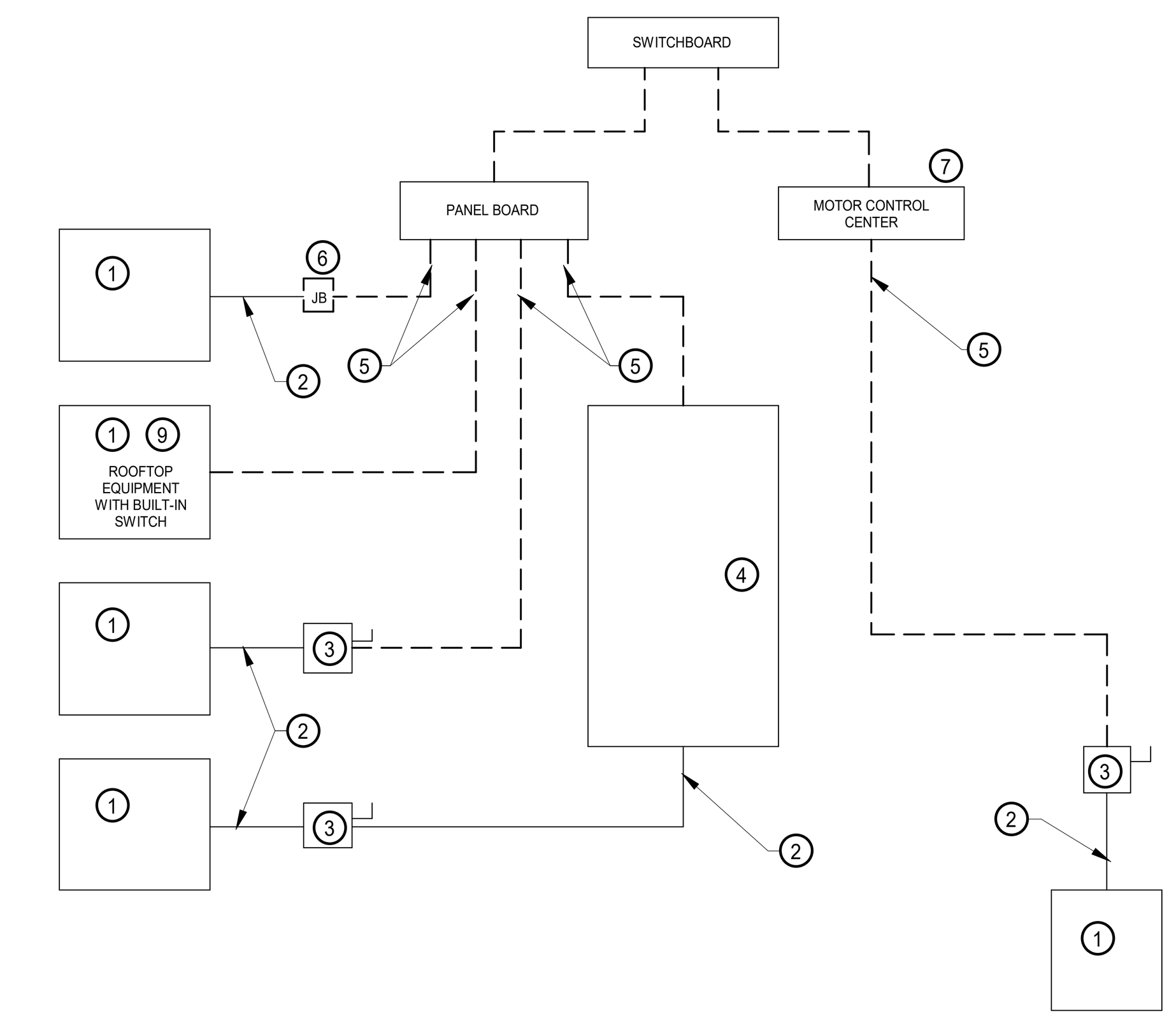
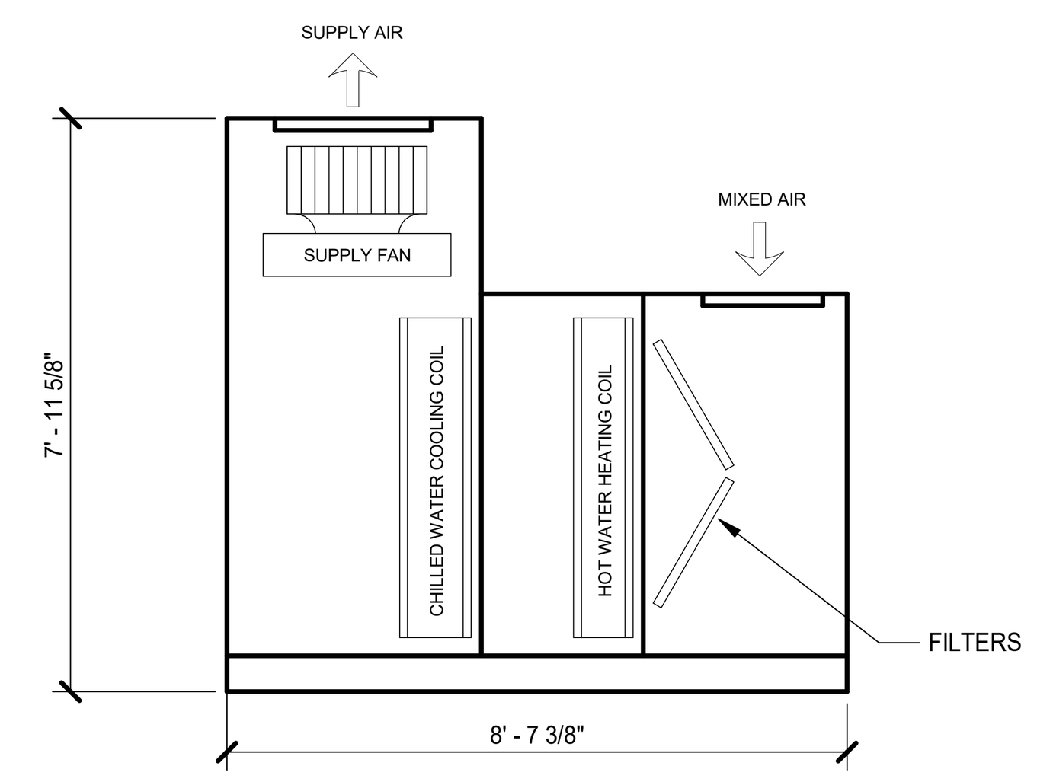


FIRE PARTITION DUCT PENETRATION DETAIL

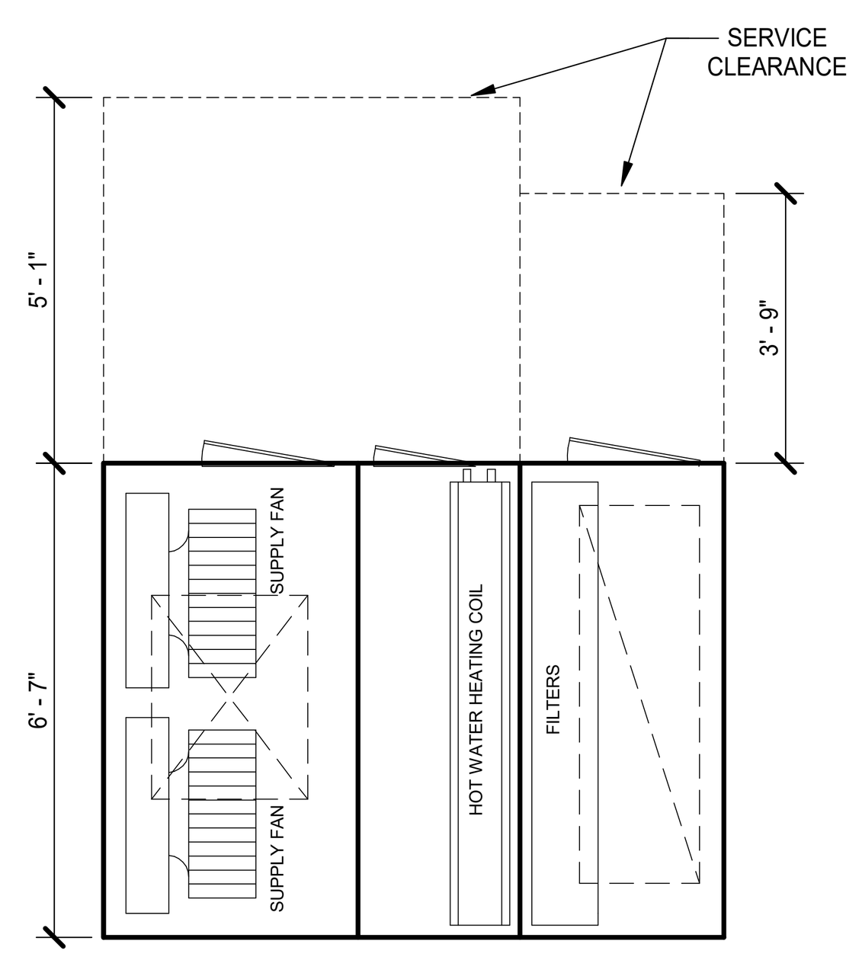
1. MECHANICAL EQUIPMENT
2. CONDUIT AND WIRING BY MECHANICAL CONTRACTOR.
3. IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
4. A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO 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.



DIVISION 23 AND 26 COORDINATION DETAIL

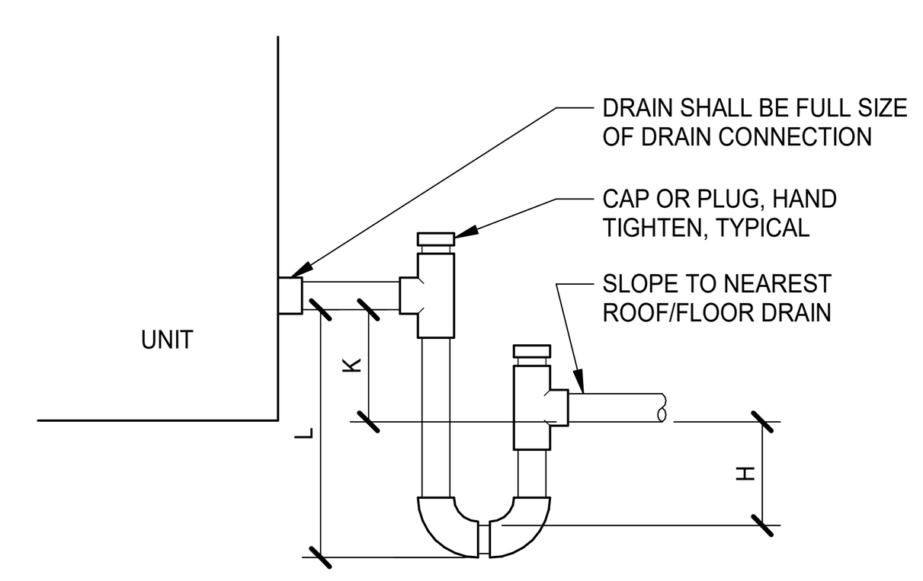


ELEVATION VIEW



PLAN VIEW

AHU-1 LAYOUT

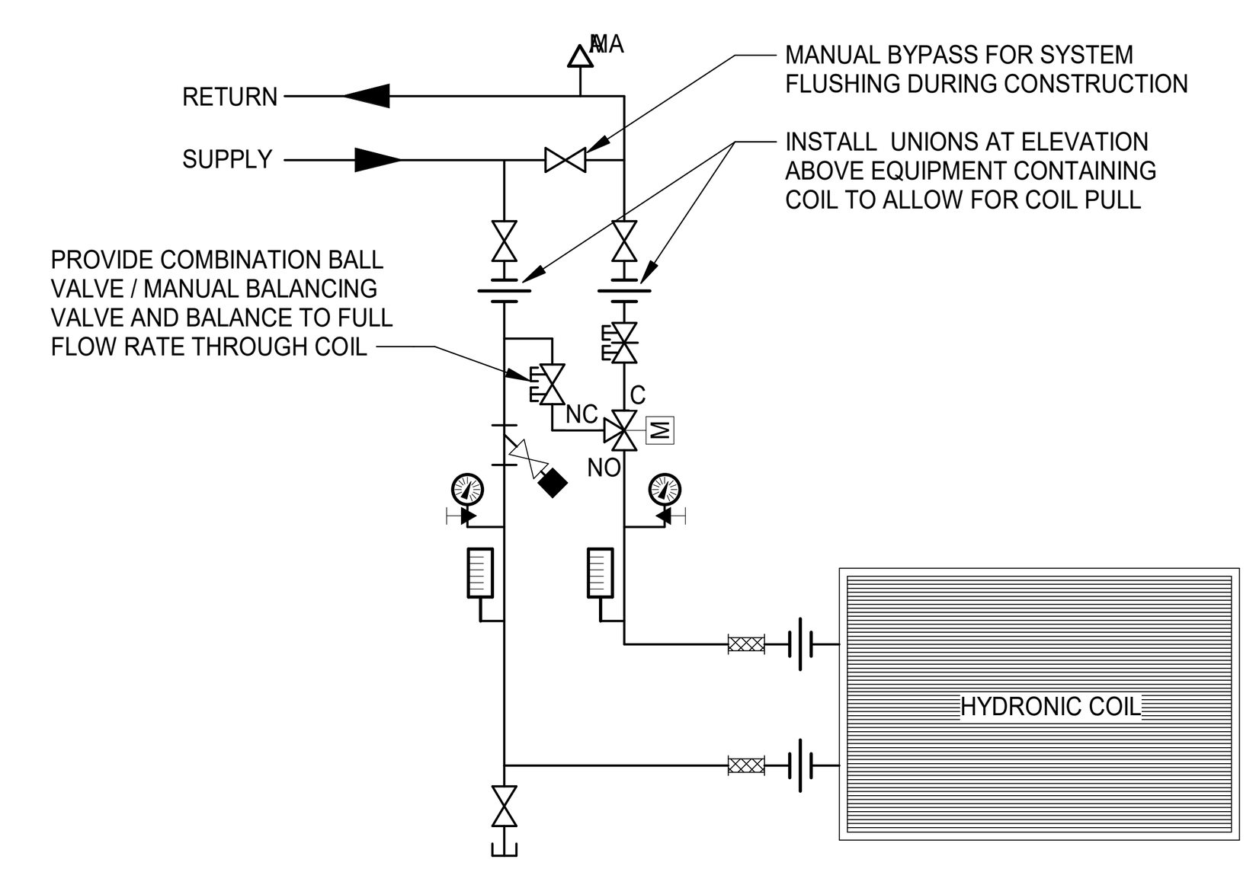


K = 1" FOR EACH 1" OF MAXIMUM NEGATIVE STATIC PRESSURE + 1"
H = 1/2K
L = H + K + PIPE DIAMETER + INSULATION

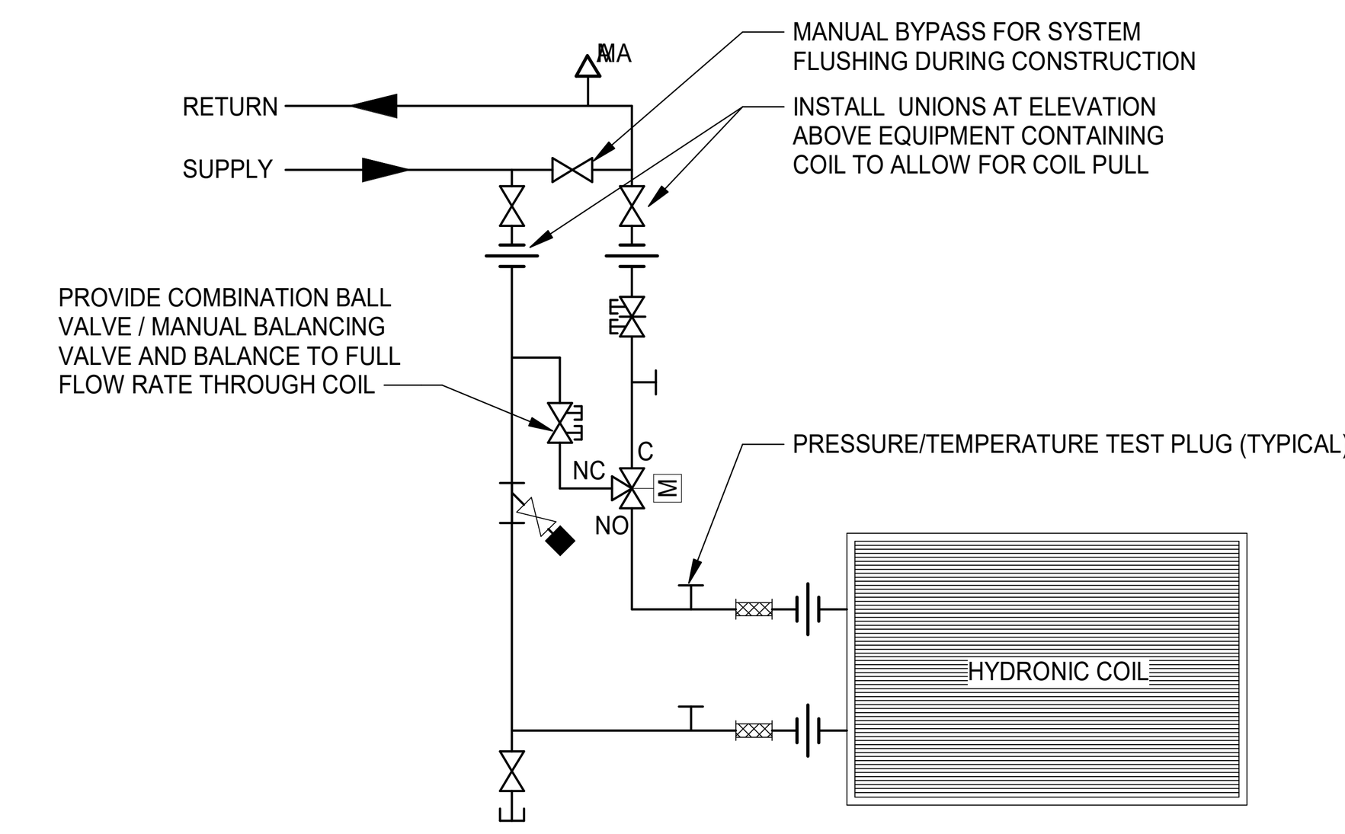
NOTES:

1. LOCATE TRAP AS CLOSE AS POSSIBLE TO UNIT OUTLET WITH BOTTOM BELOW SUPPORT STRUCTURE.
2. COORDINATE MOUNTING/CURB HEIGHT AS REQUIRED TO PROVIDE PROPER CONDENSATE DRAINAGE/TRAP HEIGHT.
3. NOTIFY ARCHITECT BEFORE FABRICATION IF PHYSICAL CONDITIONS PREVENT INSTALLATION OF DEPTH INDICATED.

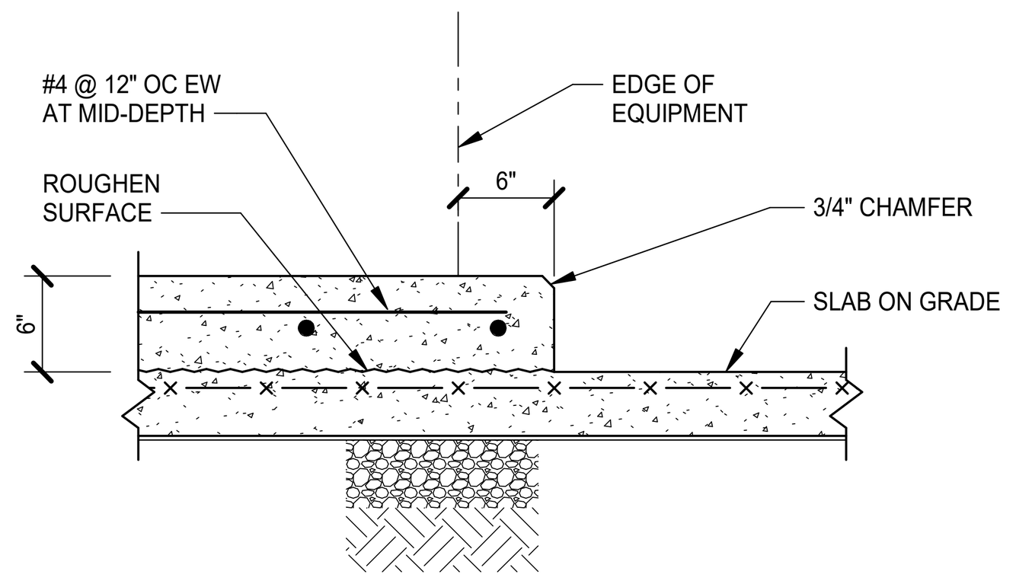
NEGATIVE PRESSURE CONDENSATE DRAIN DETAIL



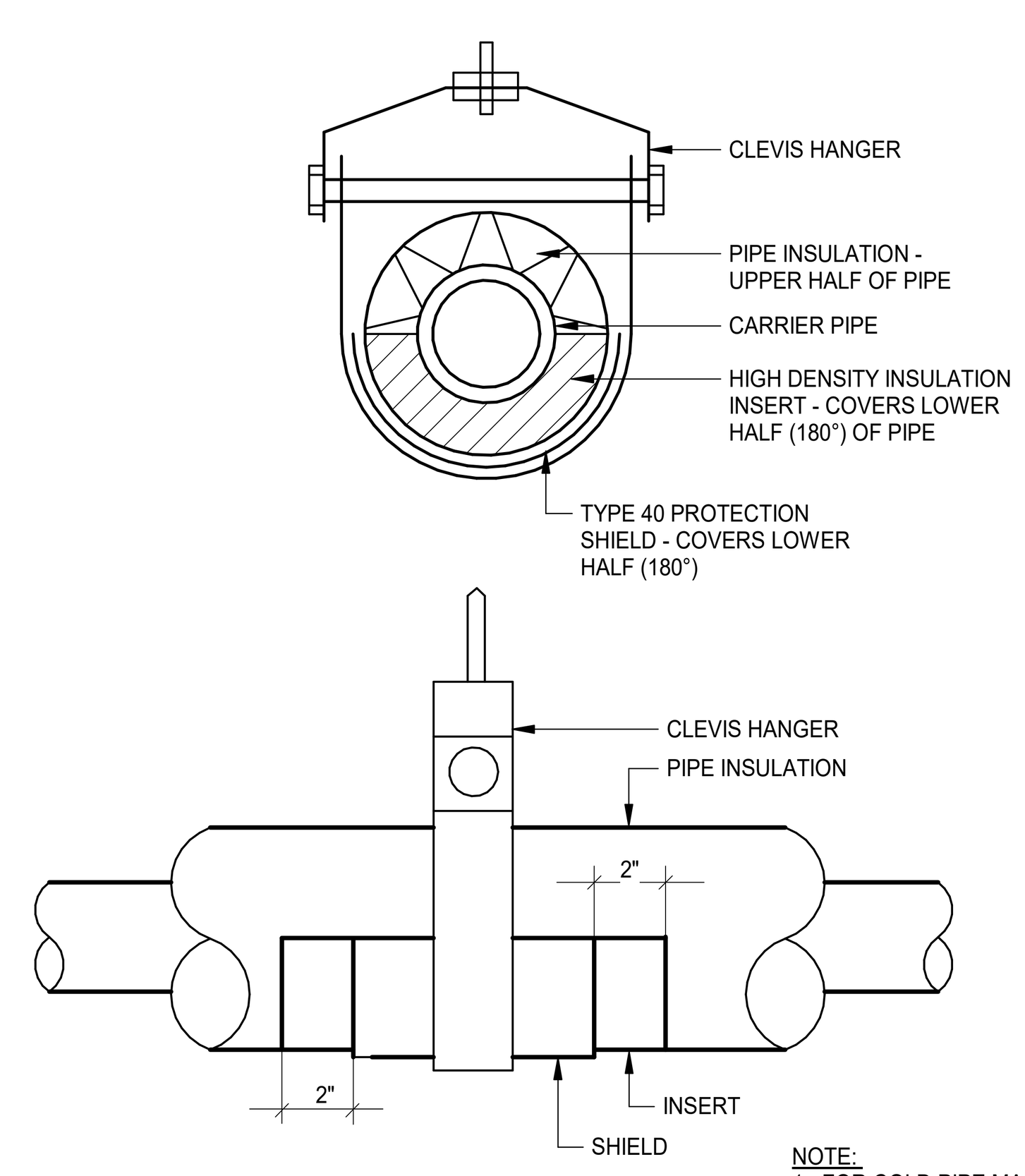
HYDRONIC COIL PIPING DIAGRAM - AHU



HYDRONIC COIL PIPING DIAGRAM - TERMINAL EQUIPMENT

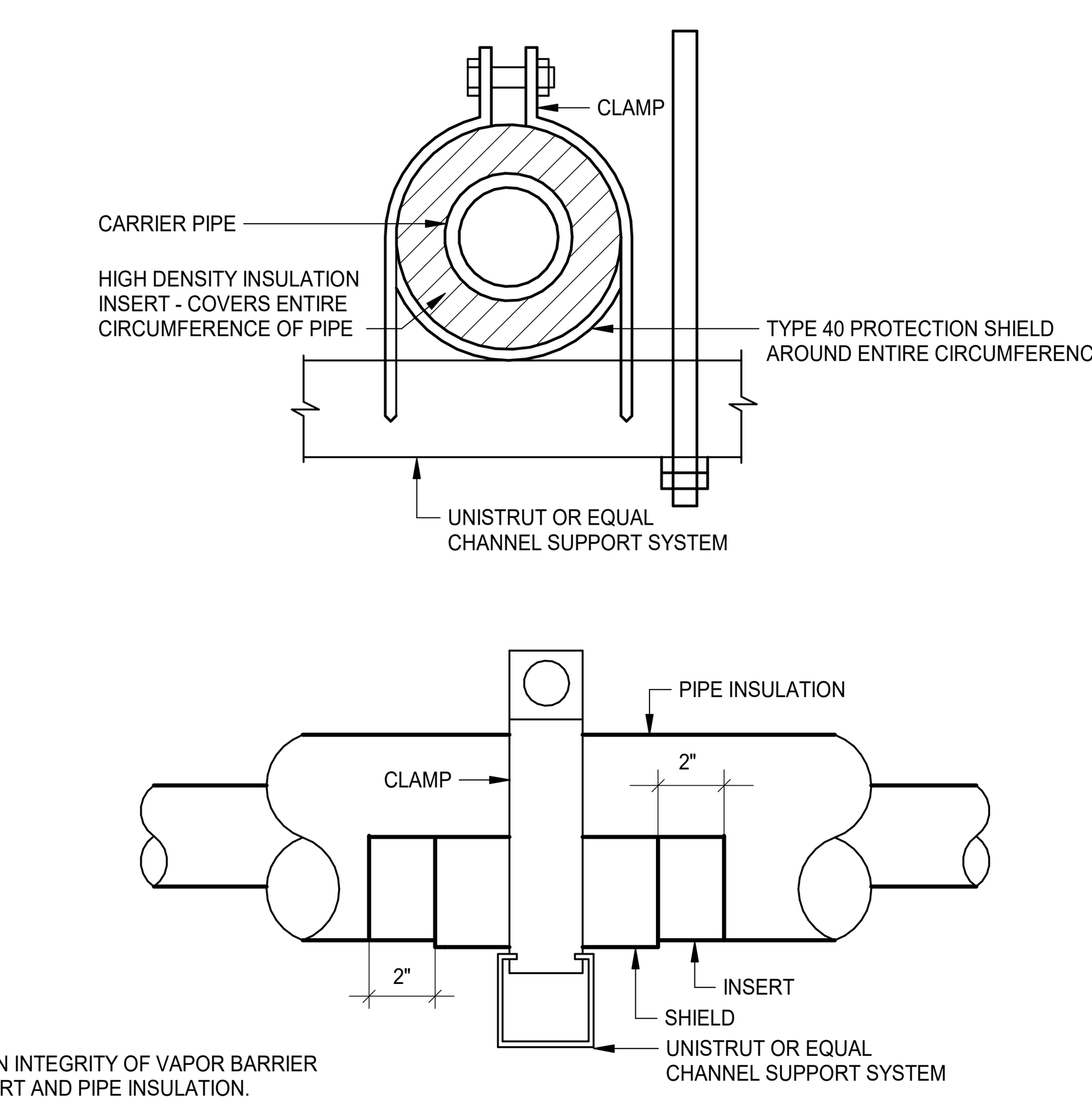


HOUSEKEEPING PAD DETAIL



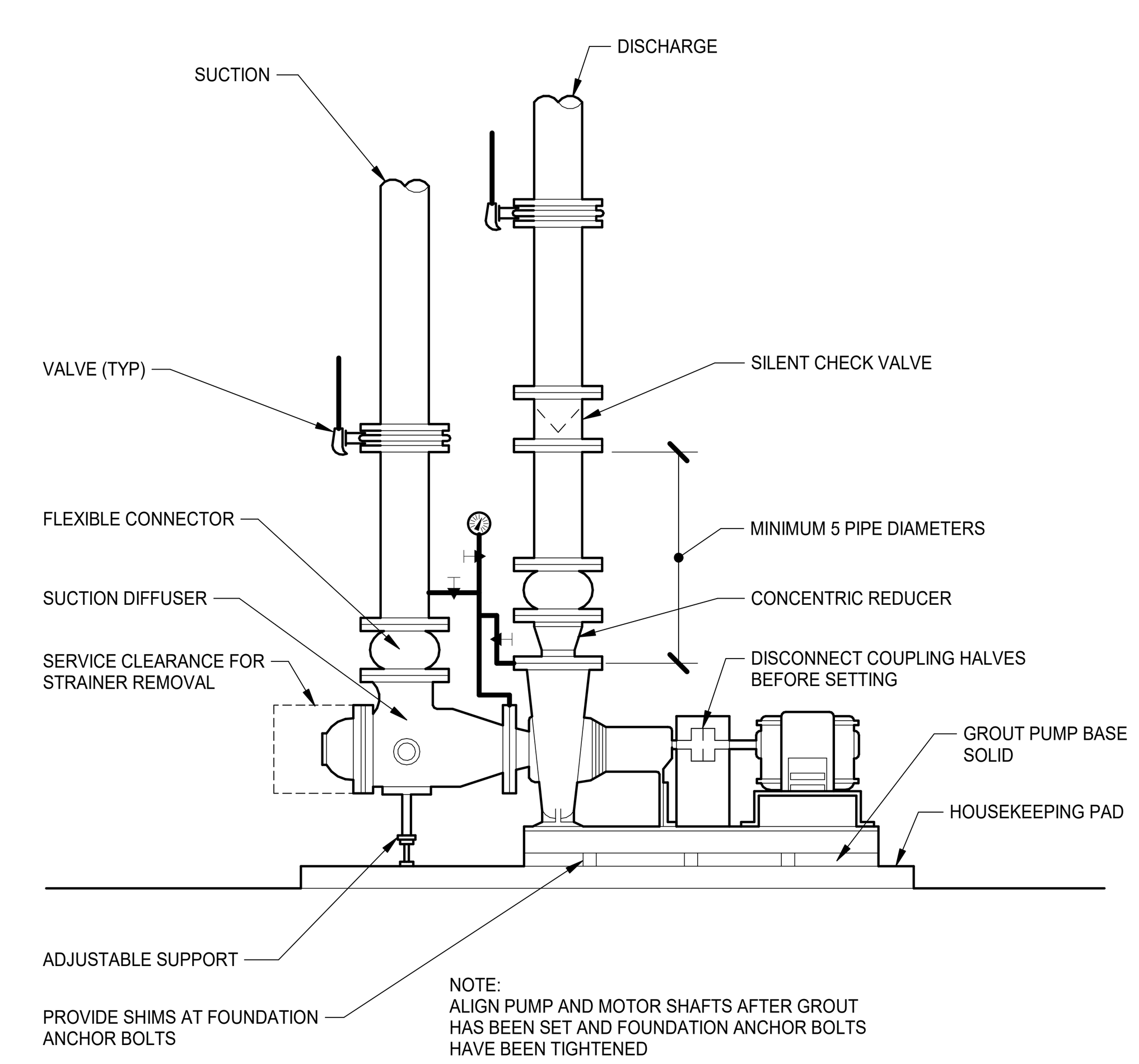
CLEVIS OR BAND HANGER

NOTE:
1. FOR COLD PIPE MAINTAIN INTEGRITY OF VAPOR BARRIER AT SEAM BETWEEN INSERT AND PIPE INSULATION.



TRAPEZE OR CLAMPED SYSTEM

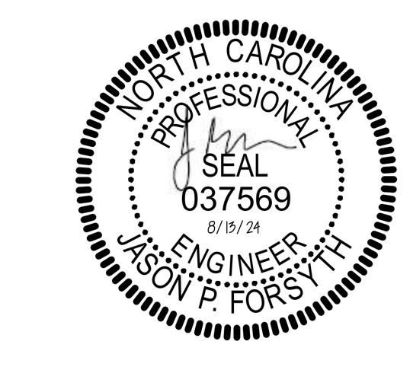
PIPE SUPPORT AND THERMAL SHIELD DETAILS

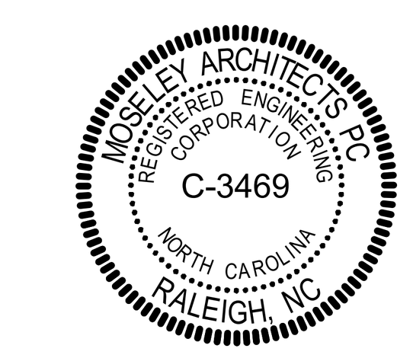


NOTE:
ALIGN PUMP AND MOTOR SHAFTS AFTER GROUT HAS BEEN SET AND FOUNDATION ANCHOR BOLTS HAVE BEEN TIGHTENED

PUMP DETAIL

MOSELEYARCHITECTS
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
MOSELEYARCHITECTS.COM





ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

DETAILS

M5.2

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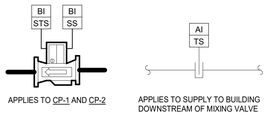
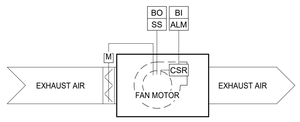
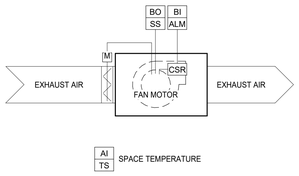


DOMESTIC WATER PUMP AND TEMPERATURE MONITORING



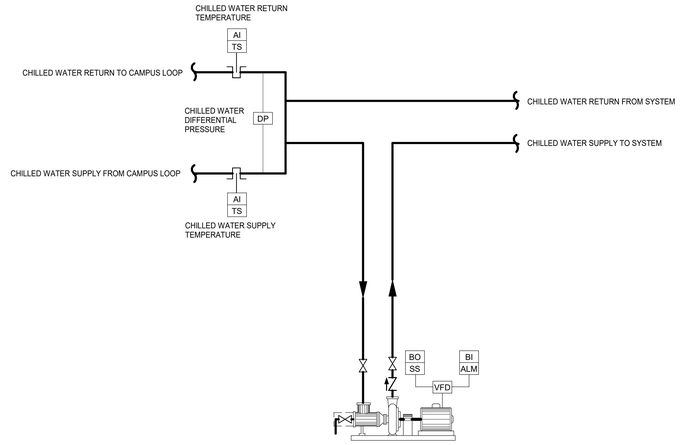
EXHAUST FAN - CONTROLLED BY BAS SCHEDULE



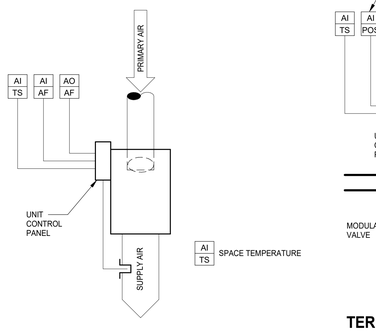
EXHAUST FAN - CONTROLLED BY SPACE TEMPERATURE

HOT WATER PUMP CONTROLS

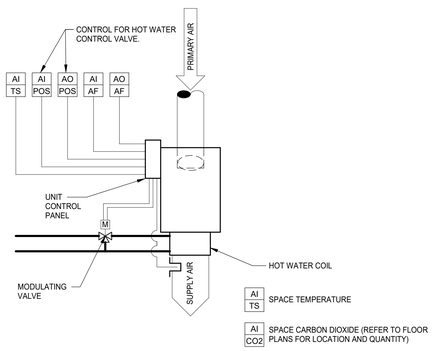
NO SCALE



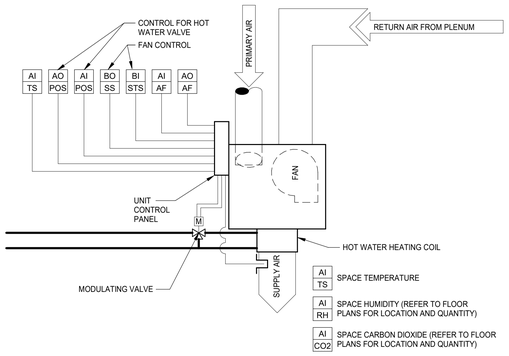
CHILLED WATER PUMP CONTROLS



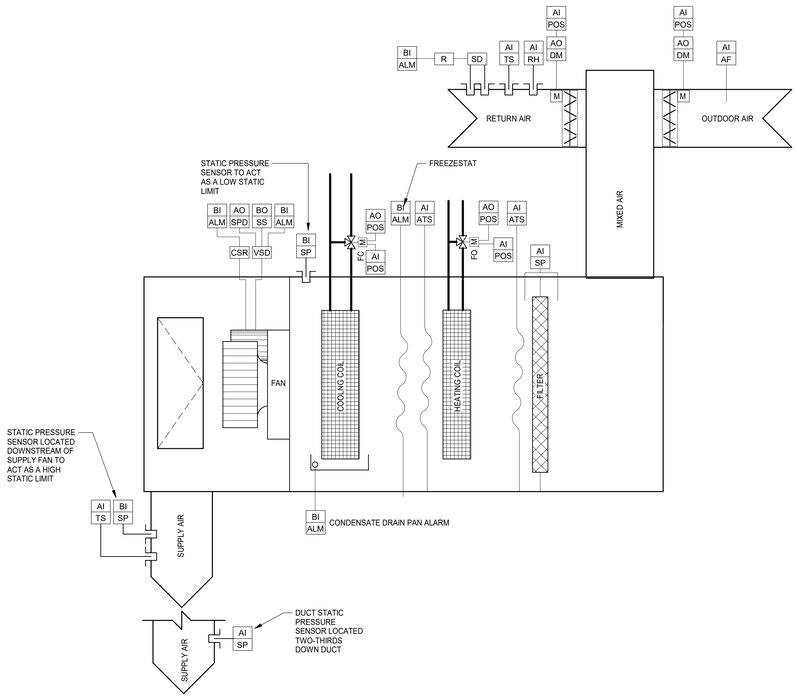
TERMINAL UNIT - COOLING ONLY



TERMINAL UNIT WITH MODULATING CONTROL OF HOT WATER HEAT



PARALLEL FAN POWERED TERMINAL UNIT WITH MODULATING HOT WATER HEATING COIL



VAV AHU SERVING TERMINAL UNITS

MOSELEY ARCHITECTS
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL SEAL 037569 ENGINEER JOHN P FORSYTH 8/9/24

MOSELEY ARCHITECTS, P.C. REGISTERED ENGINEERING CORPORATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
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CONTROLS

M7.1

8/27/2024 11:58:23 AM

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, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROVE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROVE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
F	FIRE ALARM MANUAL PULL STATION, MOUNT AT +3'-10"AFF.
FK	FIRE ALARM KEY OPERATED MANUAL PULL STATION, MOUNT AT +3'-10"AFF.
SD	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.
S	SMOKE DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
H	HEAT DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
TS	FIRE ALARM TAMPER SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
FS	FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
PV	POST INDICATOR VALVE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
PS	FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
RI	FIRE ALARM REMOTE INDICATOR, CEILING MOUNT.
M	FIRE ALARM MONITOR MODULE. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS.
C	FIRE ALARM CONTROL MODULE. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS.
B	FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-0"AFF.
M	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.
M	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
XXX	FEEDER DESIGNATION
CT	CURRENT TRANSFORMER
PT	POTENTIAL TRANSFORMER

GRAPHICS SYMBOLS LEGEND

A123
SPACE IDENTIFICATION TAG
SPACE NUMBER
BUILDING AREA (WHEN USED)

1 / E4.1
SECTION WHERE CUT
SECTION NUMBER
DRAWING WHERE SECTION IS INDICATED

1 / E3.1
ENLARGED PLAN WHERE CUT
ENLARGED PLAN NUMBER
DRAWING WHERE ENLARGED PLAN IS INDICATED

1 / E5.1
DETAIL TAG
DETAIL NUMBER
DRAWING WHERE DETAIL IS INDICATED

1 **DETAIL TITLE**
E2.2 E5.1 E2.3 E2.4 1/4"=1'-0"
DETAIL NUMBER
DRAWING WHERE DETAIL IS INDICATED
DRAWING WHERE DETAIL IS CUT
ADDITIONAL DRAWING REFERENCES

1 **SECTION TITLE**
E2.2 E4.1 E2.3 E2.4 1/4"=1'-0"
SECTION NUMBER
DRAWING WHERE SECTION IS INDICATED
DRAWING WHERE SECTION IS CUT
ADDITIONAL DRAWING REFERENCES

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 WITH USB PORTS, NEMA 5-20R, REFERENCE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
	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.
	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.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	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.
SF	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLOOR BOX. COORDINATE W/ SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
SF	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLUSH WALL BOX MOUNTED 4" AFF. COORDINATE W/FURNITURE PROVIDER PRIOR TO ROUGH-IN.
VP	POWER FOR CEILING MOUNTED VIDEO PROJECTOR. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE FLUSH WITH CEILING. COORDINATE FINAL LOCATION 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 PIGTAIL(S) FURNISHED WITH POLE. POLE LOCATION IS APPROXIMATE, COORDINATE WITH SYSTEM FURNITURE PROVIDER.
T	LINE VOLTAGE THERMOSTAT. DIVISION 23 FURNISH, DIVISION 26 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.
J	JUNCTION BOX, CONCEALED ABOVE CEILING, UNO.
UJ	JUNCTION BOX, UNDER FLOOR MOUNT.
CB	ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED.
	MUSHROOM SWITCH, HEAVY DUTY WITH LEGEND PLATE. MOUNT W/HANDLE AT +3'-10" AFF, UNO.
	MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT. FLUSH MOUNT W/HANDLE AT +3'-10"AFF, UNO.
	DISCONNECT SWITCH, FUSIBLE OR NON-FUSIBLE AS INDICATED. MOUNT W/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 W/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 W/HANDLE AT + 4'-6"AFF, UNO.
E	EQUIPMENT POWER CONNECTION.
	MOTOR CONNECTION.
M	CONNECTION TO DIV 23 MOTORIZED DAMPER, VERIFY LOCATION.
EL	POWER FOR ELECTRIC DOOR LOCK CONNECTION.
ES	POWER FOR ELECTRIC DOOR STRIKE CONNECTION.
G	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 SYMBOLOGY.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED.
	PANELBOARD.
T	TRANSFORMER, PROVIDE CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE.
R	RELAY, N/O OR N/C AS INDICATED.
	RELAY, NORMALLY OPEN.
	RELAY, NORMALLY CLOSED.
XXX	FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1.

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.

I. DISPOSE OF ALL LAMPS SCHEDULED TO BE DEMOLISHED IN ACCORDANCE WITH NC GENERAL STATUES G.S. 130A-310.60

COMMUNICATIONS LEGEND

NOTE: REFER TO 'TYPICAL COMMUNICATION OUTLET DETAIL' FOR BOX & CONDUIT REQUIREMENTS. REFER TO TELECOMMUNICATION DEVICE DETAILS FOR CABLING AND TERMINAL JACK REQUIREMENTS.

SYMBOL	DESCRIPTION
X	TELECOMMUNICATIONS OUTLET, NUMBER INDICATES QTY OF CABLES. MOUNT AT +3'-10"AFF.
X	TELECOMMUNICATIONS OUTLET, NUMBER INDICATES QTY OF CABLES. MOUNT AT +1'-6"AFF.
	TELECOMMUNICATIONS OUTLET, NUMBER INDICATES QTY OF CABLES. MOUNT AT +7'-6"AFF.
	RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING.
	INTERCOM STATION WITH PUSHBUTTON, MOUNT AT +4'-6"AFF.
	[MISC COMMUNICATIONS OUTLET] , MOUNT AT +4'-6"AFF.
E	PUSHBUTTON SWITCH, 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.
M# M#	MICROPHONE OUTLET, WALL MOUNT AT +1'-6"AFF, FLUSH FLOOR MOUNT. SUBSCRIPT NUMBER INDICATES NUMBER OF JACKS TO PROVIDE IN OUTLET.
S	SOUND SYSTEM SPEAKER, RECESS WALL MOUNT AT +7'-6"AFF. 'WG' WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD.
S	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 RECESSED FLOOR BOX ON EMERGENCY POWER. 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.'
#	POWER/COMMUNICATIONS POKE-THRU FLOOR BOX ON EMERGENCY POWER. 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.'
SF	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.
SF	SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA FLUSH WALL BOX MOUNTED +4"AFF. PROVIDE 1.25" CONDUIT WITH BUSHING FROM BOX TO ABOVE CEILING. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
VP	TELECOMMUNICATON FOR CEILING MOUNTED VIDEO PROJECTOR. PROVIDE QUANTITY OF CABLES INDICATED.
V	PROVIDE (2) HDMI CABLES TO PROJECTOR LOCATION.
	SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA POWER POLE FURNISHED WITH SYSTEM FURNITURE. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
WA	WIRELESS ACCESS POINT
	TELECOMMUNICATIONS EQUIPMENT RACK.
	2" EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6" ABOVE FINISHED CEILING.
TGB	TELECOMMUNICATIONS GROUND BUS BAR, MOUNT AT +1'-6"AFF.
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR, MOUNT AT +1'-6"AFF.
	CABLE TRAY, MOUNT AT +6" ABOVE FINISHED CEILING.

LIGHTING LEGEND

SYMBOL	DESCRIPTION
S	LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS, MOUNT AT +3'-10"AFF. SUBSCRIPT/SUPERSCRIPT 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
OD 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

SYMBOL	DESCRIPTION
SS	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.
PE	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 +8'-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 DEVICES INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, SWITCHING SYSTEMS, RECEPTACLES, DATA OUTLETS, CLOCK, SPEAKERS & FIRE ALARM UNLESS OTHERWISE NOTED. EXCLUDE ELECTRICAL DEVICES ON EXTERIOR WALLS UNLESS OTHERWISE NOTED.

LIFE SAFETY SYMBOL LEGEND

DESIGNATOR MATRIX

		PARTITION
1 HR FIRE		
EX 2 HR FIRE		

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. INDICATED RATINGS AT EXISTING WALLS ARE EXISTING TO REMAIN, AND ARE BASED ON INFORMATION PROVIDED BY THE OWNER.

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 TYPEWRITTEN 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. PROVIDE 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.

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
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGP	FIRE ALARM GRAPHIC PANEL
FAXP	FIRE ALARM EXTENDER PANEL
FFSCP	FIRE FIGHTER'S SMOKE CONTROL PANEL
FLA	FULL LOAD AMPS
FPMR	FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS
FPND	FUSE PER NAMEPLATE DATA
G	GROUND
GE	GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 427.22 (PROVIDE ACCESSORY FOR INDICATED BREAKER)
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GFP	GROUND FAULT PROTECTION FOR PERSONNEL, 4-6mA (PROVIDE ACCESSORY FOR INDICATED BREAKER)
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
Hz	HERTZ
IAW	IN ACCORDANCE WITH
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KHFSS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
KHz	KILOHERTZ
KVA	KILOVOLT AMPS
KW	KILOWATTS
KWH	KILOWATT HOURS
L	LOCKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR INDICATED BREAKER)
LC	ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR, REFER TO LC SCHEDULE
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	METAL HALIDE
MHz	MEGAHERTZ
MIN	MINIMUM
ML	MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER)
MLO	MAIN LUG ONLY
MNS	MASS NOTIFICATION SYSTEM
MOCP	MAXIMUM OVER CURRENT PROTECTION.
MTD	MOUNTED
N	NEUTRAL
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NO.	NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	PILOT LIGHT (AT THE SWITCH HANDLE)
PBD	PANELBOARD
PD	PROTECTIVE DEVICE
RCPT	RECEPTACLE
REC	RECEPTACLE
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SPEC.	SPECIFICATION(S)
ST	SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER)
SW	SWITCH
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W/	WITH
WG	WIRE GUARD
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

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NORTH CAROLINA PROFESSIONAL SEAL 040202 8/13/24 ENGINEER BRIAN C. WELLS

MOSELEY ARCHITECTS PC REGISTERED ENGINEERING CORPORATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

E0.1

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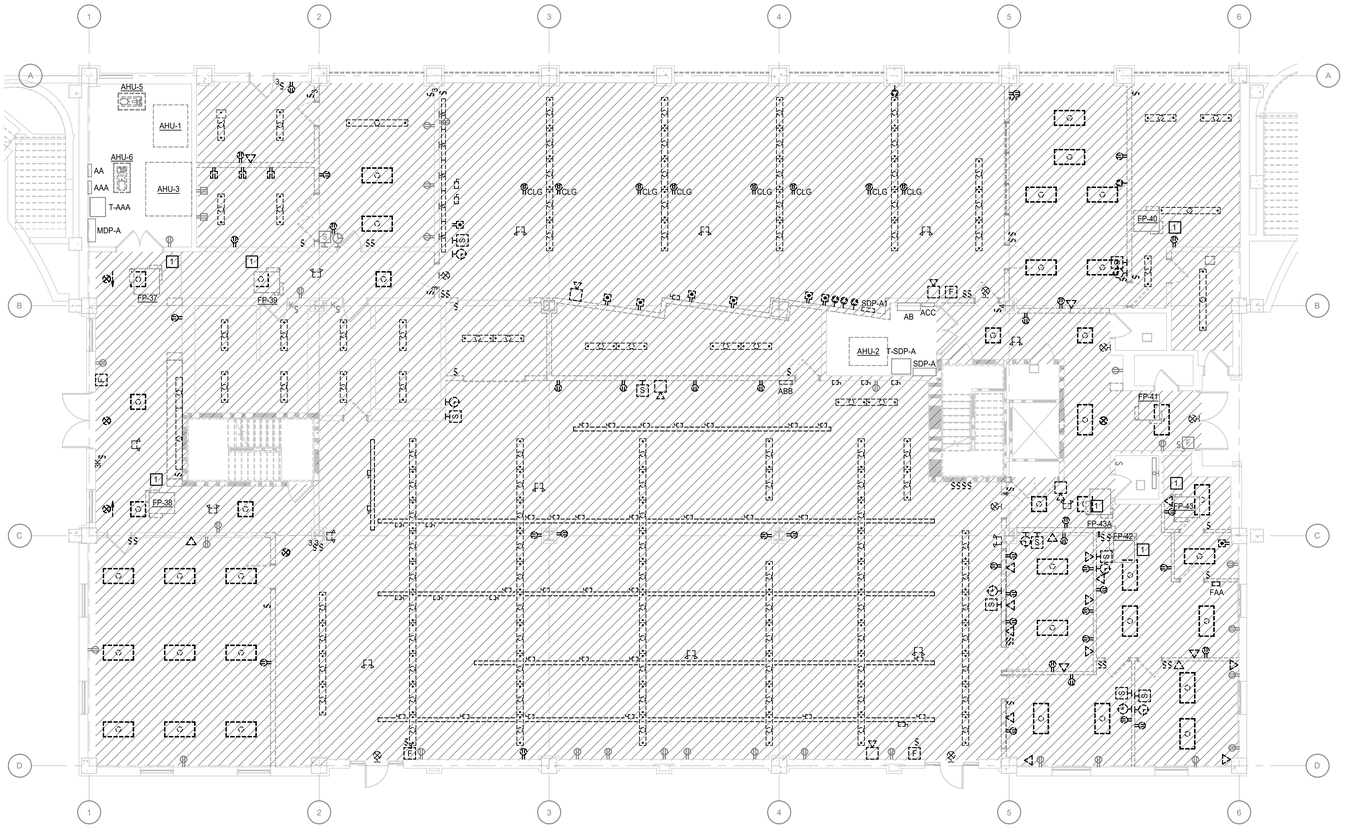
KEYNOTES

APPLICABLE TO THIS DRAWING

1	DISCONNECT & REMOVE MECHANICAL EQUIPMENT BRANCH CIRCUIT IN ITS ENTIRETY.



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FIRST FLOOR PLAN - DEMOLITION

1/8" = 1'-0"

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FIRST FLOOR PLAN - DEMOLITION

E1.1

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FIRST FLOOR PLAN - LIGHTING

1/8" = 1'-0"

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FIRST FLOOR PLAN - LIGHTING

E2.1

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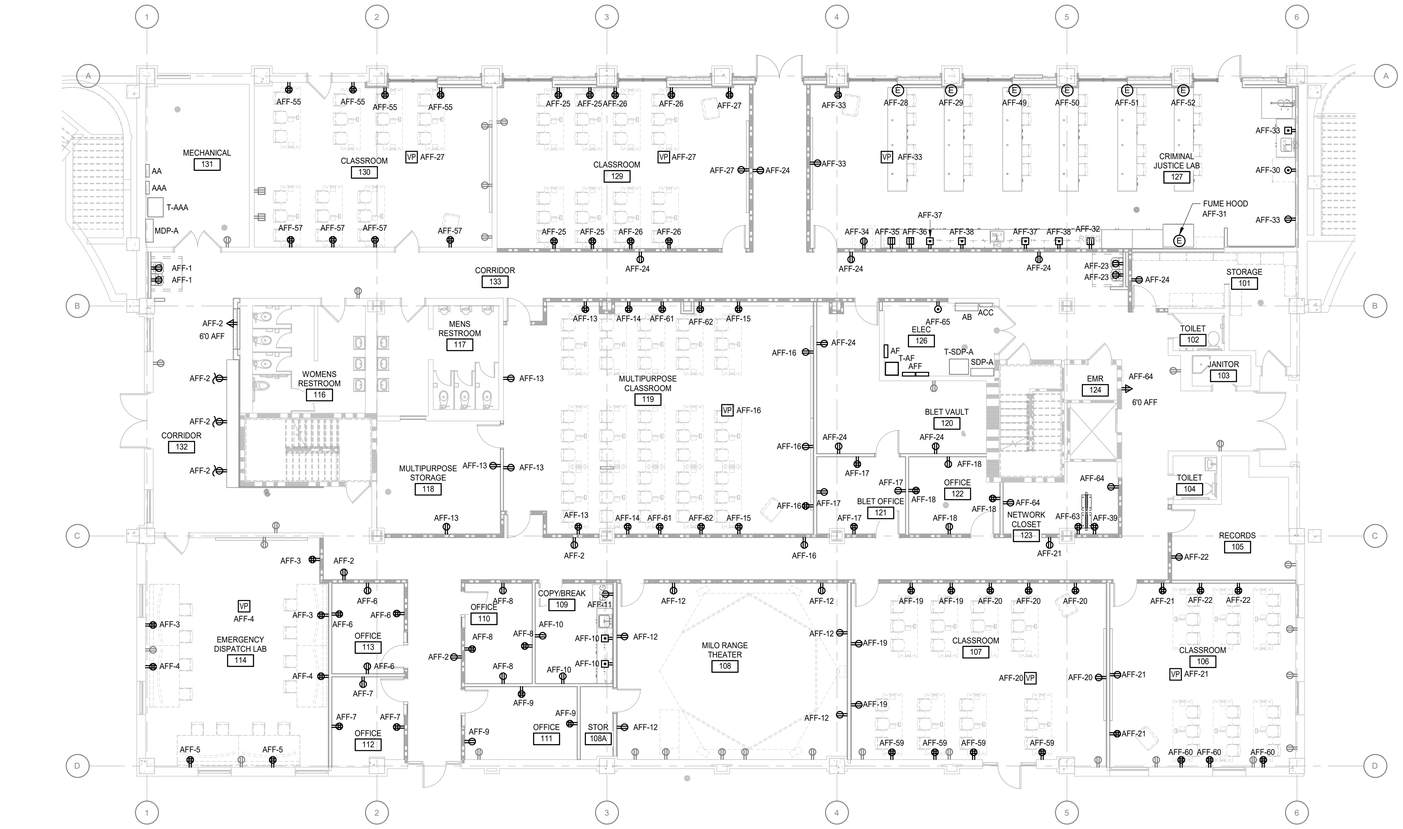

FIRST FLOOR PLAN - POWER

1/8" = 1'-0"

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FIRST FLOOR PLAN - POWER

E2.2

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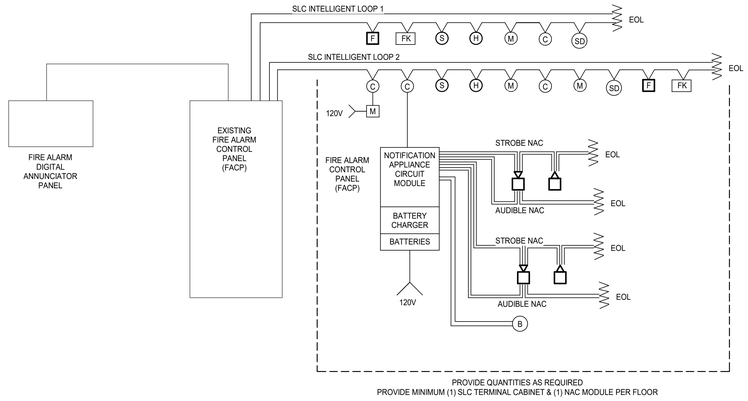
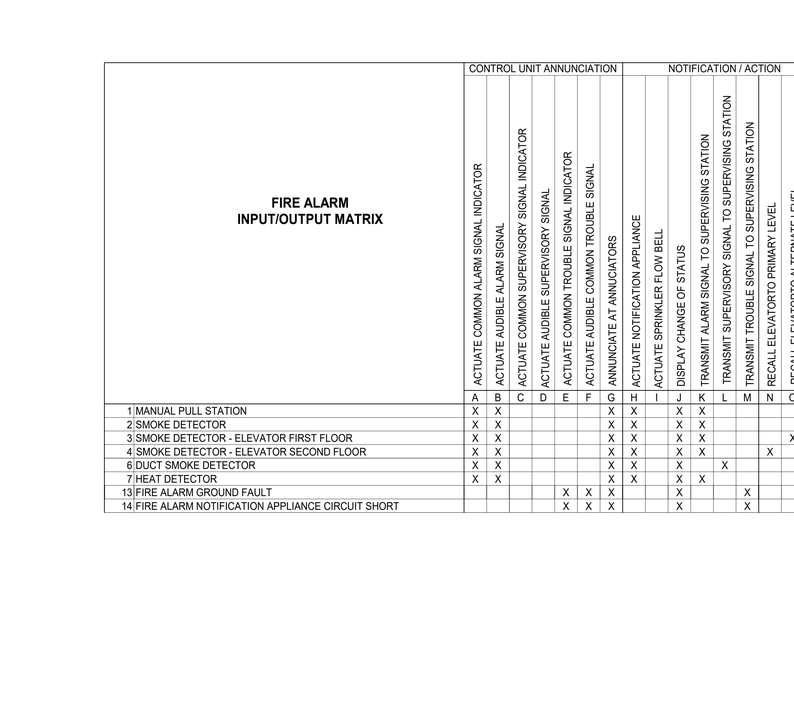
FIRE ALARM INPUT/OUTPUT MATRIX

		CONTROL UNIT ANNUNCIATION							NOTIFICATION / ACTION									
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ANNUNCIATE AT ANNUCIATORS	ACTUATE NOTIFICATION APPLIANCE	ACTUATE SPRINKLER FLOW BELL	DISPLAY CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	RECALL ELEVATORTO PRIMARY LEVEL	RECALL ELEVATORTO ALTERNATE LEVEL	SHUT DOWN ASSOCIATED HVAC EQUIPMENT
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	MANUAL PULL STATION	X	X					X	X		X	X					
2	SMOKE DETECTOR	X	X					X	X		X	X					
3	SMOKE DETECTOR - ELEVATOR FIRST FLOOR	X	X					X	X		X	X				X	
4	SMOKE DETECTOR - ELEVATOR SECOND FLOOR	X	X					X	X		X	X			X		
6	DUCT SMOKE DETECTOR	X	X					X	X		X		X				X
7	HEAT DETECTOR	X	X					X	X		X	X					
13	FIRE ALARM GROUND FAULT					X	X	X			X			X			
14	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X	X			X			X			



3 **FIRE ALARM RISER DIAGRAM**
NO SCALE



2 **TELECOMMUNICATIONS RACK ELEVATIONS**
NO SCALE

GENERAL NOTES

A. LAY EXISTING CABLE INTO CABLE TRAY WHERE LEFT OVER FROM DEMOLITION.

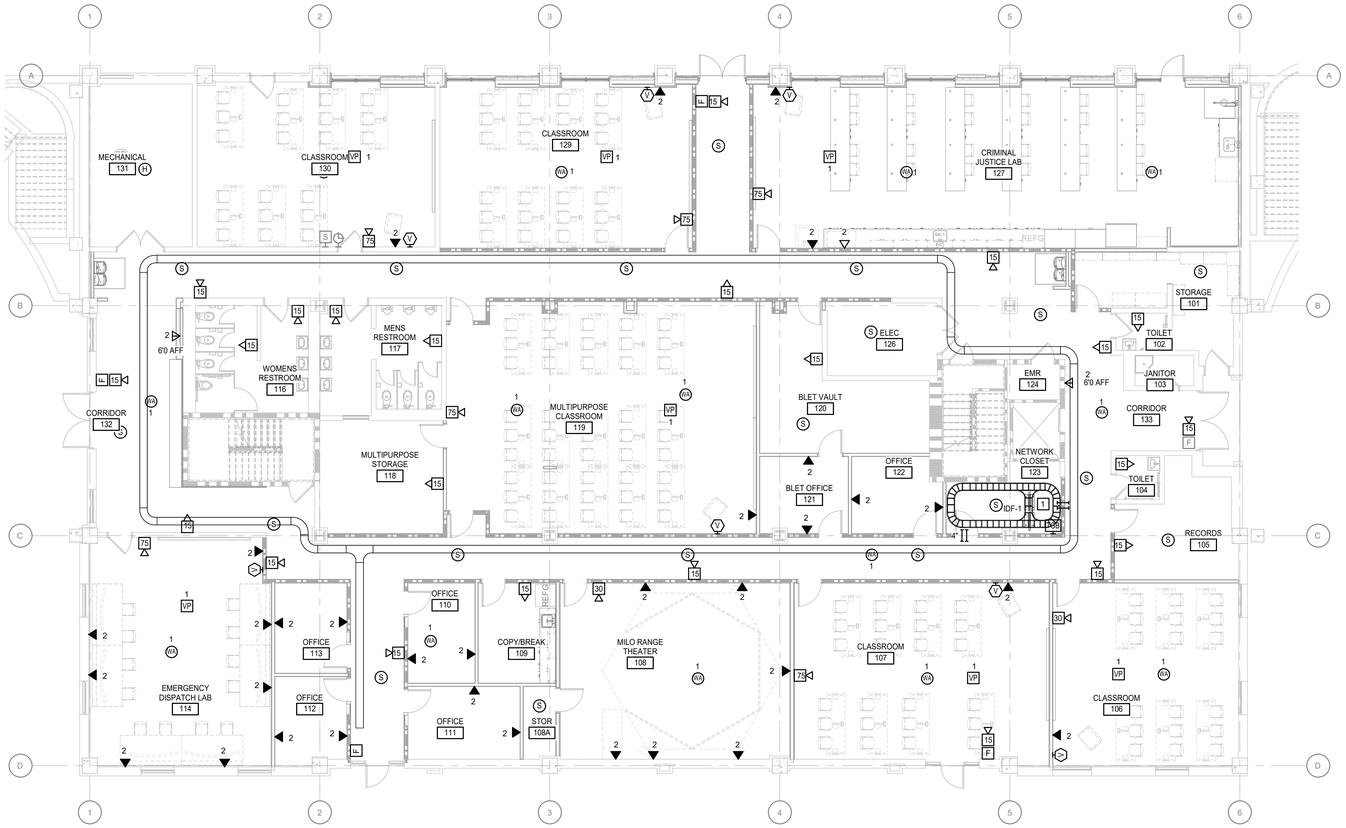
B. CONNECT ALL FIRE ALARM DEVICES INDICATED TO EXISTING EDWARDS EST-3 PANEL. PROVIDE ADDITIONAL NAC & SLC CIRCUITS AS REQUIRED. PERFORM FIRE ALARM REACCEPTANCE TESTING PER NFPA 72 REQUIREMENTS.

C. PROVIDE 1 1/2" C SLEEVES AT ALL NECESSARY WALL PENETRATIONS FOR HORIZONTAL CABLING.

KEYNOTES

APPLICABLE TO THIS DRAWING

1 PROVIDE #6 GND FROM TGB TO INTERSYSTEM BONDING TERMINAL (IBT) EXTERIOR TO PANEL MDP-A. CONTRACTOR SHALL PROVIDE IBT IF FOUND TO NOT BE EXISTING AND BOND TO GROUND BUS INTERIOR TO PANEL MDP-A. PROVIDE #6 GND FROM TGB TO NEAREST BUILDING STEEL VIA EXOTHERMIC CONNECTION.



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

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ADVANCED MANUFACTURING CENTER RENOVATION

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REVISIONS	
DATE	DESCRIPTION

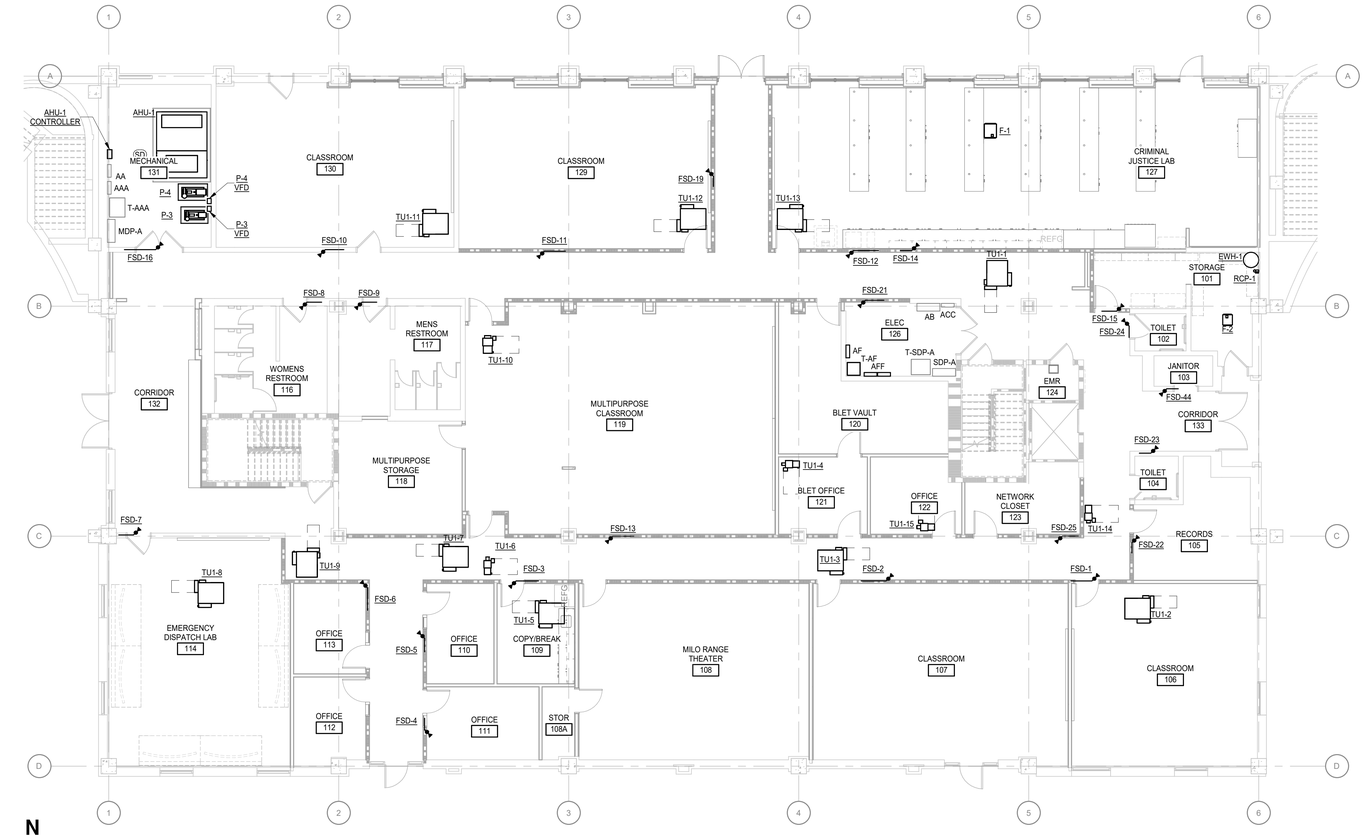
FIRST FLOOR PLAN - COMMUNICATIONS

E2.3

9/3/2024 9:36:17 AM

DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.4

TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS
AHU-1	480 V	3	17.6 kVA	AF	5,7,9	(4) #6, (1) #10 E.G IN 1"C	60A/NF NEMA 1	
AHU-1 CONTROLLER	120 V	1	0.1 kVA	AFF	42	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
EWH-1	208 V	3	10.0 kVA	AFF	54,56,58		60A/NF NEMA 1	
F-1	120 V	1	1.2 kVA	AFF	43	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
F-2	120 V	1	0.5 kVA	AFF	48	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
FSD-1	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-2	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-3	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-4	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-5	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-6	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-7	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-8	120 V	1	0.1 kVA	AFF	41	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-9	120 V	1	0.1 kVA	AFF	41	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-10	120 V	1	0.1 kVA	AFF	41	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-11	120 V	1	0.1 kVA	AFF	41	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-12	120 V	1	0.1 kVA	AFF	41	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-13	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-14	120 V	1	0.1 kVA	AFF	41	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-15	120 V	1	0.1 kVA	AFF	41	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-16	120 V	1	0.1 kVA	AFF	41	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-19	120 V	1	0.1 kVA	AFF	41	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-21	120 V	1	0.1 kVA	AFF	41	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-22	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		
FSD-23	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		
FSD-24	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		
FSD-25	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		REFER TO SMOKE DAMPER DETAIL
FSD-44	120 V	1	0.1 kVA	AFF	40	(2) #12, (1) #12 E.G IN 3/4"C		
P-3	480 V	3	6.3 kVA	AF	6,8,10	(3) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	ROUTE FEED THROUGH VFD
P-4	480 V	3	11.6 kVA	AF	11,13,15	(3) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	ROUTE FEED THROUGH VFD
RCP-1	120 V	1	1.1 kVA	AFF	53	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-1	120 V	1	0.5 kVA	AFF	44	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-2	120 V	1	0.5 kVA	AFF	44	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-4	120 V	1	0.5 kVA	AFF	44	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-5	120 V	1	0.5 kVA	AFF	47	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-6	120 V	1	0.5 kVA	AFF	47	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-7	120 V	1	0.5 kVA	AFF	46	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-8	120 V	1	0.5 kVA	AFF	46	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-9	120 V	1	0.5 kVA	AFF	46	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-10	120 V	1	0.1 kVA	AFF	47	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-11	120 V	1	0.5 kVA	AFF	45	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-12	120 V	1	0.5 kVA	AFF	45	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-13	120 V	1	0.5 kVA	AFF	45	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-14	120 V	1	0.5 kVA	AFF	44	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
TU1-15	120 V	1	0.5 kVA	AFF	44	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	



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

MOSELEYARCHITECTS
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL SEAL 040202 8/13/24 ENGINEER BRYAN C WELLS

MOSELEY ARCHITECTS, P.C. PROFESSIONAL ENGINEERING CORPORATION C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR PLAN - MECHANICAL POWER

E2.4

9/3/2024 9:36:19 AM

LIGHT FIXTURE SCHEDULE

FIXTURE							LAMP				
TYPE	DESCRIPTION	MANUFACTURER	SERIES NO.	VOLTAGE	WATTAGE	LUMENS	TYPE	COLOR TEMP.	MOUNTING	OPTIONS	COMMENTS
L	STRIP LIGHTING	CURRENT LIGHTING	LCL	277 V	42	5412 lm	LED	4000 K	SUSPENDED	EM BATTERY WHERE INDICATED	
L1	ARCHITECTURAL TROFFER 2X4	CURRENT LIGHTING	LCAT24	277 V	40	5784 lm	LED	4000 K	RECESSED	EM BATTERY WHERE INDICATED	
L2	ARCHITECTURAL TROFFER 2X2	CURRENT LIGHTING	LCAT22	277 V	32	3764 lm	LED	4000 K	RECESSED	EM BATTERY WHERE INDICATED	
L3	ARCHITECTURAL TROFFER 2X4	CURRENT LIGHTING	LCAT24	277 V	36	5026 lm	LED	4000 K	RECESSED	EM BATTERY WHERE INDICATED	
T1	2 INCH RECESSED LINEAR	ALW	LIGHTPLANE 2R	277 V	25	3548 lm	LED	4000 K	RECESSED	MUD MOUNTING, FLUSH LENS, ASYMMETRIC	WATTAGE AND LUMENS SHOWN IN 4 FT INCREMENTS
W	EXTERIOR WALL PACK	CURRENT LIGHTING	LNC2	277 V	42	4025 lm	LED	4000 K	WALL	EM BATTERY WHERE INDICATED	
X1	EXIT SIGN	CURRENT LIGHTING	SE	277 V	2		LED		UNIVERSAL	90 MIN BATTERY	

TRANSFORMER SCHEDULE

kVA	TYPE	PRIMARY	SECONDARY	COPPER PRIMARY FEEDER	COPPER SECONDARY FEEDER	BONDING CONDUCTOR
15 kVA	LINEAR	480V-3Ø	208Y/120V	3#10, #10 G, 3/4" C.	4#4, #8 G, 1-1/4" C.	#8
30 kVA	LINEAR	480V-3Ø	208Y/120V	3#6, #10 G, 1" C.	4#1, #6 G, 1-1/2" C.	#6
45 kVA	LINEAR	480V-3Ø	208Y/120V	3#4, #8 G, 1-1/4" C.	4#1/0, #6 G, 2" C.	#6
75 kVA	LINEAR	480V-3Ø	208Y/120V	3#1, #6 G, 1-1/2" C.	4-250kCM, #2 G, 2-1/2" C.	#2
112.5 kVA	LINEAR	480V-3Ø	208Y/120V	3#2/0, #6 G, 2" C.	(2 SETS) 4-3/0, #2 G, 2-1/2" C.	#2

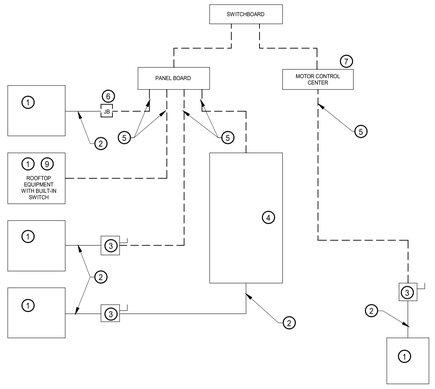
COPPER FEEDER SCHEDULE

FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THWN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE
30	1	3#10,#10 G	3/4"
35	1	3#8,#10 G	3/4"
40	1	3#8,#10 G	3/4"
45	1	3#6,#10 G	1"
50	1	3#6,#10 G	1"
60	1	3#4,#10 G	1"
70	1	3#4,#8 G	1 1/4"
80	1	3#3,#8 G	1 1/4"
90	1	3#2,#8 G	1 1/4"
100	1	3#1,#8 G	1 1/4"
110	1	3#2,#6 G	1 1/2"
125	1	3#1,#6 G	1 1/2"
150	1	3#1/0,#6 G	2"
175	1	3#2/0,#6 G	2"
200	1	3#3/0,#6 G	2"
225	1	3#4/0,#4 G	2 1/2"
250	1	3-250kCM,#4 G	2 1/2"
300	1	3-350kCM,#4 G	2 1/2"
350	2	3#2/0,#3 G	2"
400	2	3#3/0,#3 G	2"
450	2	3#4/0,#2 G	2 1/2"
500	2	3-250kCM,#2 G	2 1/2"
600	2	3-350kCM,#1 G	3"
700	2	3-500kCM,#1/0 G	4"
800	3	3-350kCM,#1/0 G	3"
1000	3	3-500kCM,#2/0 G	4"
1200	4	3-350kCM,#3/0 G	3"

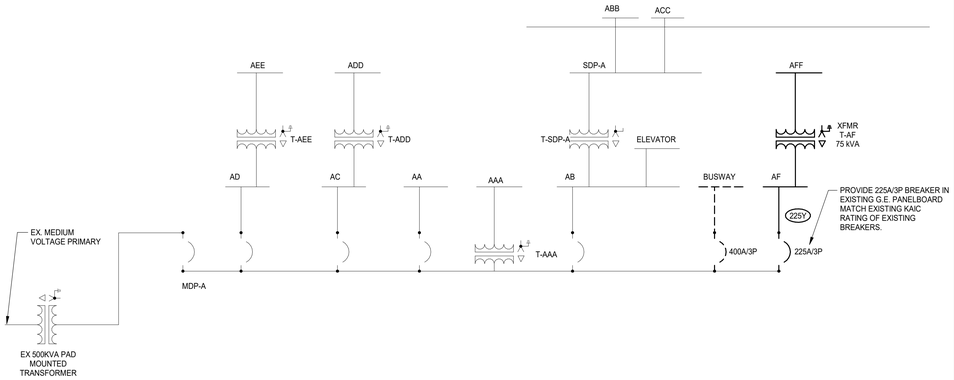
FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THWN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE
30Y	1	4#10,#10 G	3/4"
35Y	1	4#8,#10 G	3/4"
40Y	1	4#8,#10 G	3/4"
45Y	1	4#6,#10 G	1"
50Y	1	4#6,#10 G	1"
60Y	1	4#4,#10 G	1"
70Y	1	4#4,#8 G	1 1/4"
80Y	1	4#3,#8 G	1 1/4"
90Y	1	4#2,#8 G	1 1/4"
100Y	1	4#1,#8 G	1 1/4"
110Y	1	4#2,#6 G	1 1/2"
125Y	1	4#1,#6 G	1 1/2"
150Y	1	4#1/0,#6 G	2"
175Y	1	4#2/0,#6 G	2"
200Y	1	4#3/0,#6 G	2"
225Y	1	4#4/0,#4 G	2 1/2"
250Y	1	4-250kCM,#4 G	2 1/2"
300Y	1	4-350kCM,#4 G	2 1/2"
350Y	2	4#2/0,#3 G	2"
400Y	2	4#3/0,#3 G	2"
450Y	2	4#4/0,#2 G	2 1/2"
500Y	2	4-250kCM,#2 G	2 1/2"
600Y	2	4-350kCM,#1 G	3"
700Y	2	4-500kCM,#1/0 G	4"
800Y	3	4-350kCM,#1/0 G	3"
1000Y	3	4-500kCM,#2/0 G	4"
1200Y	4	4-350kCM,#3/0 G	3"

NOTES:
1. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
2. FEEDER SIZES BASED ON TABLE 310.15(B)(16), 75° C.
3. SIZES ADJUSTED PER NEC 110.14.

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.



2 DIVISION 23 AND 26 COORDINATION DETAIL
NO SCALE



1 ONE LINE DIAGRAM
NO SCALE

PANELBOARD SCHEDULE AF

225 AMP MCB | 480/277 Wye | 3 PH 4 W | LOCATION: ELEC 126 | MOUNT: SURFACE | FED FROM: | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	INTERIOR LIGHTING	1406...	1360...					INTERIOR LIGHTING (LC)	1	20 A	2
3	20 A	1	INTERIOR LIGHTING			1420...	2048...			INTERIOR LIGHTING	1	20 A	4
5								0 VA	2107...				6
7	45 A	3	AHU-1	0 VA	2107...					P-3	3	15 A	8
9						0 VA	2107...						10
11								3877...	2417...				12
13	20 A	3	P-4	3877...	2210...					T-AF	3	125 A	14
15						3877...	1739...						16
17	20 A	1	EXTERIOR LIGHTING (LC)					252 VA	0 VA	SPARE	1	20 A	18
19	20 A	1	SPARE	0 VA	0 VA					SPARE	1	20 A	20
21	20 A	1	SPARE			0 VA	0 VA			SPARE	1	20 A	22
23	20 A	1	SPARE					0 VA	0 VA	SPARE	1	20 A	24
25	20 A	1	SPARE	0 VA	0 VA					SPARE	1	20 A	26
27	20 A	1	SPARE			0 VA	0 VA			SPARE	1	20 A	28
29	20 A	1	SPARE					0 VA	0 VA	SPARE	1	20 A	30
31	20 A	1	SPARE	0 VA	0 VA					SPARE	1	20 A	32
33	20 A	1	SPARE			0 VA	0 VA			SPARE	1	20 A	34
35	20 A	1	SPARE					0 VA	0 VA	SPARE	1	20 A	36
37	20 A	1	SPARE	0 VA	0 VA					SPARE	1	20 A	38
39	20 A	1	SPARE			0 VA	0 VA			SPARE	1	20 A	40
41	20 A	1	SPARE					0 VA	0 VA	SPARE	1	20 A	42
				31 kVA		27 kVA		30 kVA					
				113 A		97 A		112 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22 DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	6234 VA	100.00%	6234 VA
EXTERIOR LIGHTING	252 VA	100.00%	252 VA
RECEPTACLES	36360 VA	63.75%	23180 VA
AC / HEAT PUMP	17950 VA	100.00%	17950 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	6020 VA	100.00%	6020 VA

Panel Totals
Total Conn. Load: 88.1 kVA
Total Est. Demand: 75.2 kVA
Total Conn. Current: 106 A
Total Est. Demand... 90 A

PANELBOARD SCHEDULE AFF

225 AMP MCB | 120/208 Wye | 3 PH 4 W | LOCATION: ELEC 126 | MOUNT: SURFACE | FED FROM: T-AF | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	REC EWC (GP)	0.4	1.3					REC CORRIDOR 132	1	20 A	2
3	20 A	1	REC 114			1.1	1.1			REC 114	1	20 A	4
5	20 A	1	REC 114					0.7	1.1	REC 113	1	20 A	6
7	20 A	1	REC 112	0.9	1.1					REC 110	1	20 A	8
9	20 A	1	REC 111			0.9	0.7			REC 109	1	20 A	10
11	20 A	1	REC REFRIDGERATOR 109 (GP)					0.2	1.1	RECEPTACLES MILO RANGE...	1	20 A	12
13	20 A	1	REC 118, 119	1.4	0.7					REC 119	1	20 A	14
15	20 A	1	RECEPTACLES MULTIPURPOSE...			0.7	1.3			REC 133, 119	1	20 A	16
17	20 A	1	REC 121					1.1	1.1	REC 122	1	20 A	18
19	20 A	1	REC 107	1.1	1.6					REC 107	1	20 A	20
21	20 A	1	REC 133, 106			1.4	0.9			REC 105, 106	1	20 A	22
23	20 A	1	REC EWC 133 (GP)					0.4	1.4	REC 134, 133, 120, 101	1	20 A	24
25	20 A	1	REC 129	1.4	1.4					REC 129	1	20 A	26
27	20 A	1	REC 129			1.3	0.5			CRIMINAL JUSTICE LAB 127	1	20 A	28
29	20 A	1	CRIMINAL JUSTICE LAB 127					0.5	0.2	REC FUME CHAMBER 127	1	20 A	30
31	20 A	1	FUME HOOD 127	0.5	0.2					REC REFRIDERATOR 127 (GP)	1	20 A	32
33	20 A	1	REC 127			1.3	0.2			REC FINGERPRINT SCANNER 127	1	20 A	34
35	20 A	1	REC COMPORATOR 127					0.2	0.2	REC COMPORATOR 127	1	20 A	36
37	20 A	1	REC 127	0.4	0.4					REC 127	1	20 A	38
39	20 A	1	REC DATA 123			0.4	0.7			SMOKE/FIRE DAMPERS	1	20 A	40
41	20 A	1	SMOKE/FIRE DAMPERS					0.5	0.1	AHU-1 CONTROLLER	1	20 A	42
43	15 A	1	F-1	1.2	3.0					TU1-1,2,3,4,15,14	1	20 A	44
45	20 A	1	TU1-10,11,12,13			1.5	1.6			TU1-7,9,8	1	20 A	46
47	20 A	1	TU1-5,10,6					1.1	0.5	F-2	1	15 A	48
49	20 A	1	CRIMINAL JUSTICE LAB 127	0.5	0.5					CRIMINAL JUSTICE LAB 127	1	20 A	50
51	20 A	1	MISCELLANEOUS CRIMINAL...			0.5	0.5			CRIMINAL JUSTICE LAB 127	1	20 A	52
53	15 A	1	RCP-1					1.1	3.3				54
55	20 A	1	REC 130	1.4	3.3					EWH-1	3	35 A	56
57	20 A	1	REC 130			1.4	3.3						58
59	20 A	1	REC 107					1.4	1.1	REC 106	1	20 A	60
61	20 A	1	REC 119	0.7	0.7					REC 119	1	20 A	62
63	20 A	1	RECEPTACLES NETWORK...			0.4	0.5			REC NETWORK CLOSET 123	1	20 A	64
65	20 A	1	RECEPTACLES ELEC 126					0.2	0.0	SPARE	1	20 A	66
67	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	68
69	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	70
71	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	72
73	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	74
75	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	76
77	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	78
79	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	80
81	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	82
83	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	84
				24 kVA		22 kVA		17 kVA					
				207 A		190 A		145 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22 DED. NEUTRAL.
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Load Classification	Connected Load	Demand Factor	Estimated Demand
RECEPTACLES	36360 VA	63.75%	23180 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
WELDING	0 VA	0.00%	0 VA
EQUIPMENT	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
MISCELLANEOUS	6020 VA	100.00%	6020 VA
HVAC	19040 VA	100.00%	19040 VA

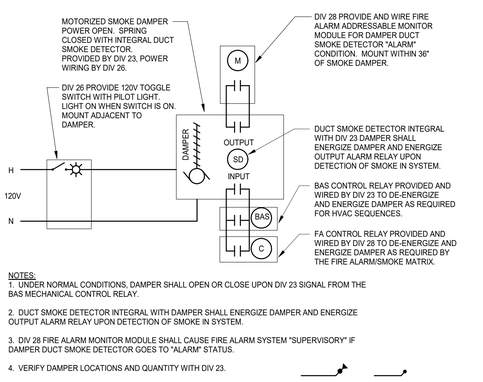
Panel Totals
Total Conn. Load: 63.7 kVA
Total Est. Demand: 50.8 kVA
Total Conn. Current: 177 A
Total Est. Demand... 141 A

LOAD CALCULATION

EXISTING SERVICE LOAD + 125%	754A
EXISTING SERVICE SIZE @ 480/277V 3PH	1000A
APPROXIMATE REMOVED LOAD	291A
ADDED LOAD	89A
NET SERVICE LOAD	552A

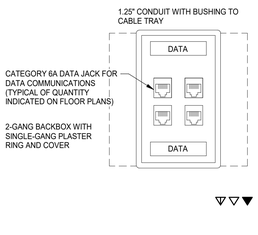
REFER TO NEC ARTICLE 110-26 FOR ADDITIONAL INFORMATION

4 EQUIPMENT CLEARANCES
1/2" = 1'-0"

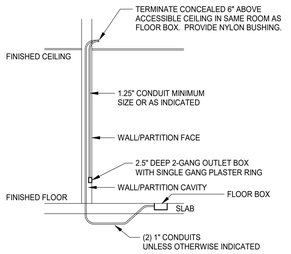


NOTES:
1. UNDER NORMAL CONDITIONS, DAMPER SHALL OPEN OR CLOSE UPON DIV 23 SIGNAL FROM THE BAS MECHANICAL CONTROL RELAY.
2. DUCT SMOKE DETECTOR INTEGRAL WITH DAMPER SHALL ENERGIZE DAMPER AND ENERGIZE OUTPUT ALARM RELAY UPON DETECTION OF SMOKE IN SYSTEM.
3. DIV 28 FIRE ALARM MONITOR MODULE SHALL CAUSE FIRE ALARM SYSTEM "SUPERVISORY" IF DAMPER DUCT SMOKE DETECTOR GOES TO "ALARM" STATUS.
4. VERIFY DAMPER LOCATIONS AND QUANTITY WITH DIV 23.

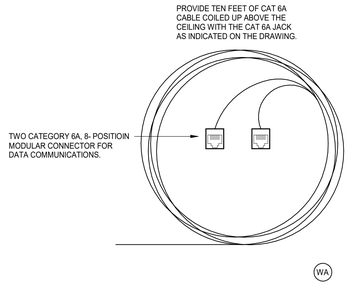
3 FIRE/SMOKE DAMPER & SMOKE DAMPER WIRING DIAGRAM
NO SCALE



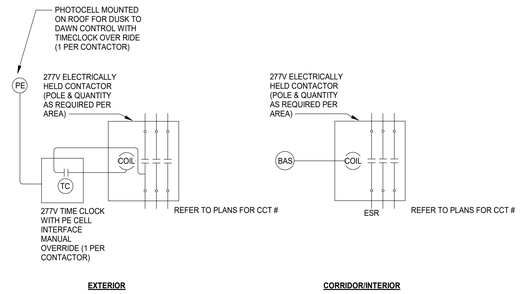
5 TELECOMMUNICATION OUTLET DETAIL
NO SCALE



6 TELECOMMUNICATIONS OUTLET CONDUIT DETAIL
NO SCALE



7 WIRELESS ACCESS POINT CABLING DETAIL
NO SCALE



9 EXTERIOR & INTERIOR LIGHTING CONTACTOR DETAIL
NO SCALE

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 040202 8/13/24 ENGINEER MARTIN C. MOSLEY

MOSELEY ARCHITECTS C-3469 NORTH CAROLINA RALEIGH, NC

ADVANCED MANUFACTURING CENTER RENOVATION

SCO ID # 16-15906-01C
WAYNE COMMUNITY COLLEGE
3000 Wayne Memorial Dr, Goldsboro, NC 27534

PROJECT NO: 593101.2
DATE: AUGUST 13, 2024

REVISIONS	
DATE	DESCRIPTION

DIAGRAMS, SCHEDULES, & DETAILS

E5.1

9/3/2024 9:36:21 AM