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Smith Sinnett Architecture, P.A. 2024
THIS DRAWING IS FORMATTED TO BE PRINTED ON A 24" X 36" SHEET

BID DRAWINGS

CARTERET COMMUNITY COLLEGE
WAYNE WEST OFFICE RENOVATION
3713 Arendell St, Morehead City, NC 28557

ID	DATE	DESCRIPTION

DRAWN BY: BS, LC
CHECKED BY: LC, RC

BUILDING CODE SUMMARY

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

DESIGN LOADS:

Importance Factors: Wind (lw) _____
Snow (ls) _____
Seismic (le) _____

Live Loads: Roof _____ psf
Mezzanine _____ psf
Floor _____ psf

Ground Snow Load: _____ psf

Wind Load: Basic Wind Speed _____ mph (ASCE-7)
Exposure Category _____

N/A - EXISTING

SEISMIC DESIGN CATEGORY: A B C D

Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) I II III IV
Spectral Response Acceleration S_s % S_1 %
Site Classification (ASCE 7) A B C D E F
Data Source: Field Test Presumptive Historical Data

Basic structural system (check one):
 Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum

Analysis Procedure: Simplified Equivalent Lateral Force Dynamic

Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity _____ psf
Pile size, type, and capacity _____

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

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
Winter dry bulb: _____
Summer dry bulb: _____

Interior design conditions
Winter dry bulb: _____
Summer dry bulb: _____
Relative humidity: _____

SEE MECHANICAL SHEETS

Building heating load: _____
Building cooling load: _____

Mechanical Spacing Conditioning System
Unitary
Description of unit: _____
Heating efficiency: _____
Cooling efficiency: _____
Size category of unit: _____
Boiler
Size category if oversized, state reason: _____
Chiller
Size category if oversized, state reason: _____
List equipment efficiencies: _____

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

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

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

SEE ELECTRICAL SHEETS

Lighting schedule (each fixture type)
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 (whole building or space by space) _____
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
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

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

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	15' ACCESS AISLE	8' ACCESS AISLE	
N/A						
TOTAL						

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE	SPACE INCREASE	EXISTING	NEW	RECD	WATERCLOSETS			URINALS			LAVATORIES			SHOWERS/TUBS		DRINKING FOUNTAINS	
					MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX	REGULAR	ACCESSIBLE					
N/A - NO INCREASE																	

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

2018 NC Administrative Code and Policies

2018 NC Administrative Code and Policies

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: (If checked the remainder of this section is not applicable.)
Exempt Building: Provide code or statutory reference:

N/A - EXISTING

THERMAL ENVELOPE (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)
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: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing)
U-Value of assembly: _____
Solar heat gain coefficient: _____
Projection factor: _____
Door R-Values: _____

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

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

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

2018 NC Administrative Code and Policies

ALLOWABLE HEIGHT

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

1 Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RECD	RATING PROVIDED (W/...-... REDUCTION)	DETAIL # AND SHEET #	DESIGN# FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0					
Bearing Walls							
Exterior							
North		0					
East		0					
West		0					
South		0					
Interior		0					
Nonbearing Walls and Partitions		0					
Exterior walls		0					
North		0					
East		0					
West		0					
South		0					
Interior walls and partitions		0					
Floor Construction		0					
Including supporting beams and joists							
Floor Ceiling Assembly		0					
Columns Supporting Floors		0					
Roof Construction, including supporting beams and joists		0					
Roof Ceiling Assembly		0					
Columns Supporting Roof		0					
Shaft Enclosures - Exit		1		EXISTING U419	W-L-1001	HW-D-0001	BW-S-0013
Shaft Enclosures - Other		0					
Corridor Separation		1		EXISTING U419	W-L-1001	HW-D-0001	BW-S-0013
Occupancy/Fire Barrier Separation		0					
Party/Fire Wall Separation		0					
Smoke Barrier Separation		0					
Smoke Partition		0					
Tenant/Dwelling Unit/Sleeping Unit Separation		N/A					
Incidental Use Separation		N/A					

* Indicate section number permitting reduction

2018 NC Administrative Code and Policies

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.9)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
N/A - EXISTING	N/A - EXISTING		

LIFE SAFETY SYSTEM REQUIREMENTS

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

Partial WORK AREA

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G1-01

Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (if not on the site plan)
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 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 (1010.1.10)
 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

2018 NC Administrative Code and Policies

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: WAYNE WEST OFFICE RENOVATION
Address: 3713 Arendell St, Morehead City, NC Zip Code 28557
Owner/Authorized Agent: Cindi Goodwin Phone # 252-222-6087 E-Mail cynthia2747@carteret.edu
Owned By: MOREHEAD CITY City/County Private State
Code Enforcement Jurisdiction: City MOREHEAD CITY County CARTERET State

CONTACT: LEANNE CROW

DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE#	E-MAIL
Architectural	SMITH SINNETT ARCHITECTURE	LEANNE CROW	NC 15867	(919) 781 8582	lcrow@smithsinnett.com
Civil					
Electrical	STROUD ENGINEERING	MIKE STROUD	NC 021990	(252) 247-7479	mstroud@stroudingineer.com
Fire Alarm					
Plumbing	STROUD ENGINEERING	MIKE STROUD	NC 021990	(252) 247-7479	mstroud@stroudingineer.com
Mechanical	STROUD ENGINEERING	MIKE STROUD	NC 021990	(252) 247-7479	mstroud@stroudingineer.com
Sprinkler-Standpipe					
Structural					
Retaining Walls >5' High					
Other					

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

2018 NC BUILDING CODE: New Building Addition Renovation
 1st Time Interior Completions Shell/Core* Phased Construction*

*Contact the local inspection jurisdiction for possibiltional procedures and requirements.

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

CONSTRUCTED: (date) 2005 CURRENT OCCUPANCY(S) (Ch.3): BUSINESS
RENOVATED: (date) 2024 PROPOSED OCCUPANCY(S) (Ch.3): BUSINESS
RISK CATEGORY (Table 1604.5): Current: II Proposed: II

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B
Sprinklers: No Partial NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Class I II III Wet Dry
Primary Fire District: No Yes Flood Hazard Area: No Yes
Special Inspections Required: Yes No If special inspections are required, contact the local inspection jurisdiction for additional procedures and requirements.

2018 NC Administrative Code and Policies

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	RENOVATION/	EW (SQ FT)	SUB-TOTAL
3 rd Floor	--	--	--	--
2 nd Floor	--	--	--	--
Mezzanine	--	--	--	--
1 st Floor	--	--	--	--
Basement	--	--	--	--
TOTAL	--	--	--	--

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly A-1 A-2 A-3 A-4 A-5
Business
Educational
Factory F-1 Moderate F-2 Low
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
Institutional I-1 I-2 I-1 & I-2 Condition I-1 I-2
 I-3 I-4 I-3 Condition I-1 I-2 I-3 I-4
Mercantile
Residential R-1 R-2 R-3 R-4
Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
Utility and Miscellaneous

Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 - List Code Sections): --
Special Provisions (Chapter 5 - List Code Sections): --
Mixed Occupancy: No Yes Separation: -- Hr. Exception: --
 Non-Separated Use (508.3)
 Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

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

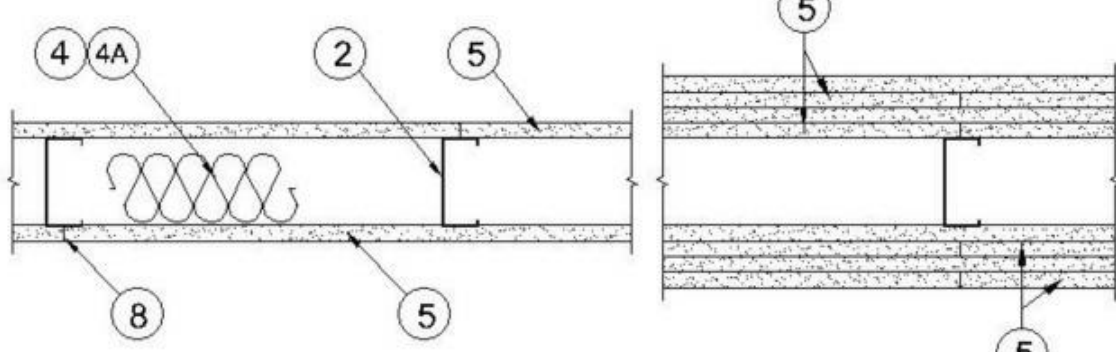
STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 508.2.4 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
N/A	EXISTING				

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 $\% = 100[(F/P - 0.25) \times W/30 = \text{_____}(\%)$

2 Unlimited area applicable under conditions of Section 5.07.
3 Maximum Building Area = total number of stories in the building x E (maximum 3 stories (506.2).
4 The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1
5 Frontage increase is based on the unsprinklered area value in Table 506.2.

2018 NC Administrative Code and Policies

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5)



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 Runners** — (Not shown - In lieu of Item 1) — For use with Item 2A, proprietary channel shaped, min. 3-5/8 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max. Effective thickness is 0.034 in.

CLARKWESTERN BUILDING SYSTEMS INC — UltraSTEEL®

DIETRICH INDUSTRIES INC — UltraSTEEL®

1B. **Framing Members* - Floor and Ceiling Runners** — (Not shown - In lieu of Item 1) — For use with Item 2A, proprietary channel shaped, min. 2-1/2 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling fasteners 24 in. OC. max. Effective thickness is 0.034 in.

CLARKWESTERN BUILDING SYSTEMS INC — UltraSTEEL®

DIETRICH INDUSTRIES INC — UltraSTEEL®

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

CALIFORNIA EXPANDED METAL PRODUCTS CO — ViperTrack™

CRACO MFG INC — SmartTrack™

MARINOWARE A DIV OF WARE INDUSTRIES

INC — Viper25™ Track

1D. **Framing Members* - Floor and Ceiling Runner** — (Not shown - In lieu of Item 1) — For use with Item 2D, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

MARINOWARE A DIV OF WARE INDUSTRIES

INC — Viper20S™ Track, Viper20D™ Track

1E. **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. SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

1F. **Floor and Ceiling Runners** — (Not shown)—For use with Item 2B- 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.

1G. **Framing Members* — Floor and Ceiling Runners** — (Not shown, As an alternate to Item 1) — For use with Item 2F and 5F or 5G 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.

CLARKWESTERN BUILDING SYSTEMS INC — CW ProTRAK

DIETRICH INDUSTRIES INC — DIETRICH ProTRAK

DMFCWBS L L C — ProTRAK

1H. **Framing Members* - Floor and Ceiling Runner** — (Not shown - In lieu of Item 1) — For use with Item 2G, 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

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. **Framing Members* - Steel Studs** — In lieu of Item 2 - Proprietary channel shaped studs, min. depth as indicated under Item 5, 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. Allowable use of studs is shown in the table below. For direct attachment of gypsum board only. Effective thickness is 0.034 in.

CLARKWESTERN BUILDING SYSTEMS INC — UltraSTEEL®

DIETRICH INDUSTRIES INC — UltraSTEEL®

2B. **Steel Studs** — (As an alternate to Item 2, For use with Items 5B & 5E) 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.

2C. **Framing Members* - Steel Studs** — (As an alternate to Item 2) — For use with Item 5C) - 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.

CALIFORNIA EXPANDED METAL PRODUCTS CO — ViperStud™

CRACO MFG INC — SmartStud™

MARINOWARE A DIV OF WARE INDUSTRIES

INC — Viper25™

2D. **Framing Members* - Metal Studs** — (Not shown - In lieu of Item 2) — For use with Item 1D, proprietary channel shaped steel studs, min depth as indicated under Item 5F, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

MARINOWARE A DIV OF WARE INDUSTRIES

INC — Viper20S™, Viper20D™

2E. **Framing Members* — Steel Studs** — In lieu of Item 2 - For use with Item 1E- 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.

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

2F. **Framing Members* — Steel Studs** — (Not shown, As an alternate to Item 2) —For use with Item 1G and 5F or 5G only, channel shaped studs, min depth as indicated under Item 5F, 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.

CLARKWESTERN BUILDING SYSTEMS INC - CW ProSTUD

DIETRICH INDUSTRIES INC - DIETRICH ProSTUD

DMFCWBS L L C - ProSTUD

2G. **Framing Members* - Metal Studs** - Not shown - In lieu of Item 2 - For use with Item 1H, 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 height.

SUPER STUD BUILDING PRODUCTS — The Edge

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, 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) — 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.

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

CANADIAN GYPSUM COMPANY — 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, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

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

CANADIAN GYPSUM COMPANY — Type SCX.

UNITED STATES GYPSUM CO — 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.

UNITED STATES GYPSUM CO — 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 2B; 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 fire drillier) 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 1G and 2F and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, as specified in the table below. 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.

UNITED STATES GYPSUM CO — Type SCX.

5G. **Gypsum Board*** — (As an alternate to Item 5) — For use with Items 1G and 2F only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below. 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 Items 2F	No. of Layers & Thkns 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

CANADIAN GYPSUM COMPANY — 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, or; 3/4 in. thick Types IP-X3 or ULTRACODE

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

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 12 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. **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 1-1/4 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 12 in. OC. Screws offset min 6 in. from layer below.

6A. **Fasteners** — (Not shown)—For use with Item 2A - Type S or S-12 steel screws used to attach panels to studs (Item 2A). **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 8-1/2 in. OC with additional screws 1 in. and 2-1/2 in. from edges of the board when panels are horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems applied horizontally:** 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. **Two layer systems applied vertically:** 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. starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board. 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 starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board 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. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board. **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 12 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. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board.

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 and 5E.

7A. **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 5 and 5E. 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 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screws through the center grommet. RSIC-V 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.

PAC INTERNATIONAL INC — Types RSIC-1, RSIC-V.

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 6. 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 and 5E.

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*** — (Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 7). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the steel stud with min. 1 in. long Type S-12 steel screws through the center hole of the clip and the resilient channel flange

KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

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 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-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations. Required behind vertical joints.

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-2011, Grade "C".

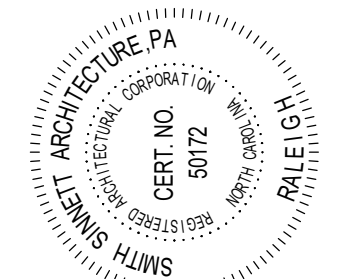
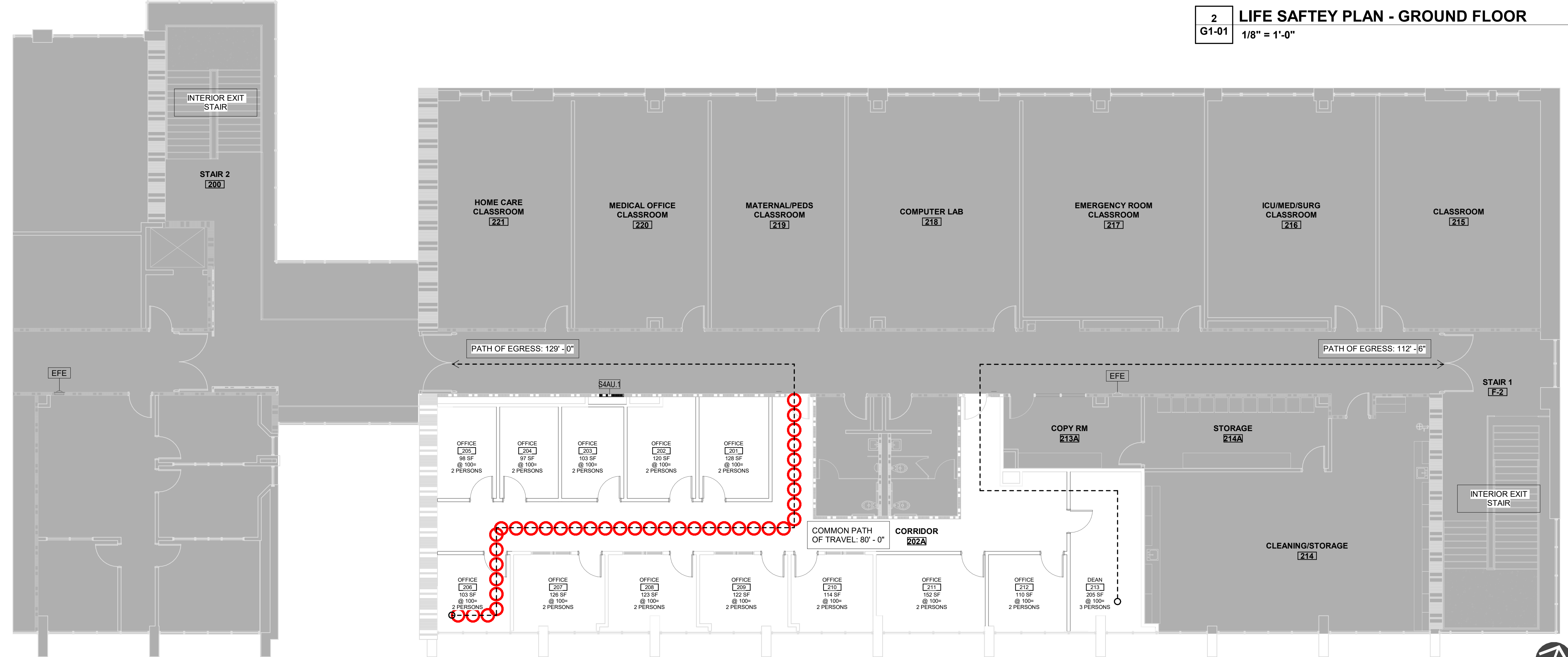
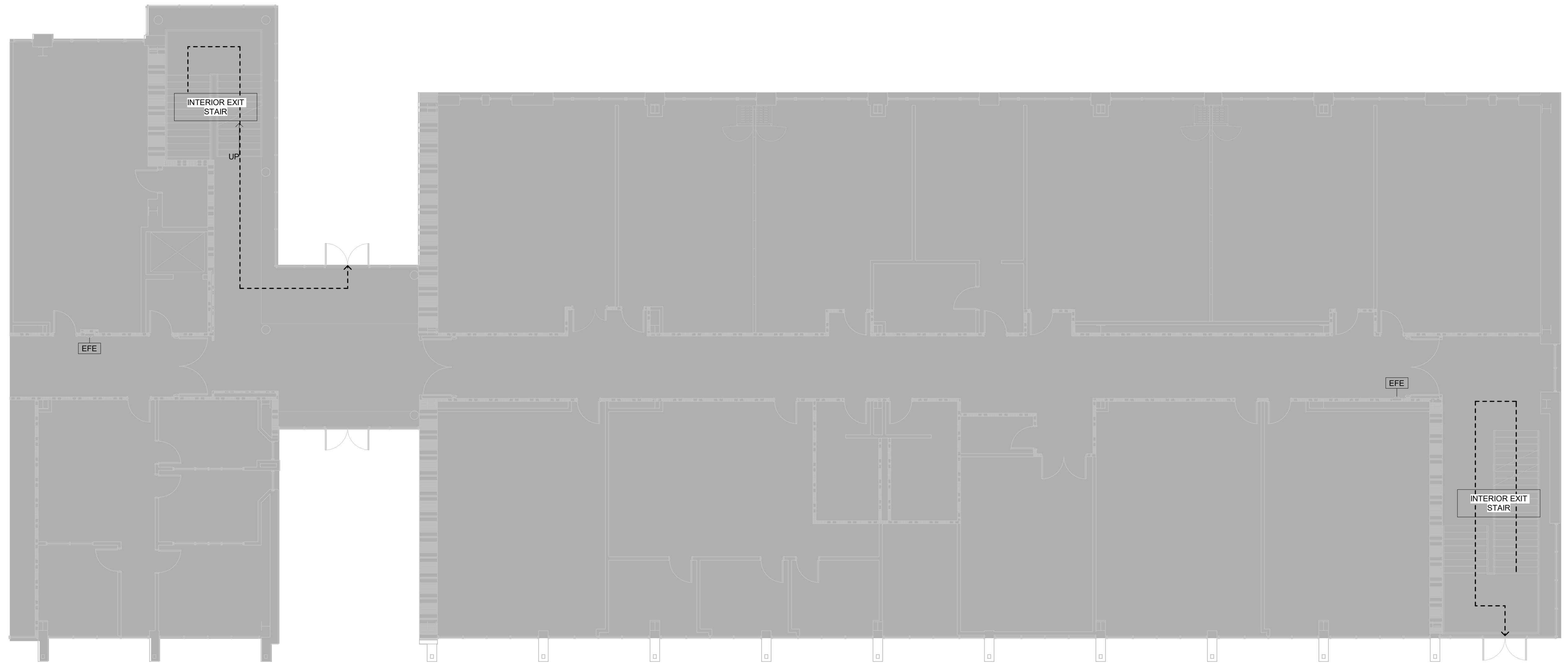
13. **Lead Batten Strips** — (Not Shown, For Use With Item 5E) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one 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-2011, 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-2011, Grade "C". Lead tabs may be held in place with

LIFE SAFETY LEGEND

- EFE LOCATION OF EXISTING FIRE EXTINGUISHER IN A CABINET
- 1 HR CONSTRUCTION
- COMMON PATH OF EGRESS TRAVEL (MAX 100' PER NCBC 1006.2.1)
- EXIT ACCESS TRAVEL DISTANCE (MAX 200' PER NCBC 1017)
- MAXIMUM EGRESS LOAD
- DOOR MARK
- ANTICIPATED EGRESS LOAD
- REQUIRED WIDTH
- EGRESS WIDTH
- ACTUAL ROOM AREA
- OCCUPANCY FACTOR PER CODE
- TOTAL OCCUPANTS PER ROOM PER CODE

This is a Level II alteration. The existing office suite has an occupancy count of 43. The proposed layout has an occupancy count of 27. The area of the scope occupancy load has decreased and all other areas are unaffected by this project. For that reason, the existing occupancy load and exit information has not been restated since those elements have not been changed by this project.



BID DRAWINGS

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Smith Sinnett Architecture, P.A., 2024

THIS DRAWING IS FORMATTED TO BE PRINTED ON A 24" X 36" SHEET

**CARTERET COMMUNITY COLLEGE
WAYNE WEST OFFICE RENOVATION**

3713 Arendell St, Morehead City, NC 28557

ID	DATE	DESCRIPTION
1	3/14/2024	ADDENDUM 1

DRAWN BY: BS, LC
CHECKED BY: LC, RC
LIFE SAFETY PLAN

C:\Users\becca\Documents\2023040_Wayne West Office Reno_R22_CA_reassigned\l.rvt
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WALL TYPE LEGEND

MARKER	S4AP	S4BP	S4AU.1 1 HOUR																
SYMBOL																			
DESCRIPTION	3 5/8" METAL STUD WITH ONE LAYER OF 5/8" GYP BOARD EACH SIDE UP TO 8' ABOVE CEILING	3 5/8" METAL STUD WITH ONE LAYER OF 5/8" GYP BOARD ON ONE SIDE UP TO 8' ABOVE CEILING	RATED 3 5/8" METAL STUD WALL WITH MINERAL WOOL UP TO DECK WITH ONE LAYER 5/8" GYP BOARD ON EACH SIDE																
UL DESIGN #	<table border="1"> <tr><td>HEAD</td><td>NON-RATED</td></tr> <tr><td>WALL</td><td>NON-RATED</td></tr> <tr><td>BASE</td><td>NON-RATED</td></tr> <tr><td>PENETRATIONS</td><td>NON-RATED</td></tr> </table>	HEAD	NON-RATED	WALL	NON-RATED	BASE	NON-RATED	PENETRATIONS	NON-RATED	<table border="1"> <tr><td>HEAD</td><td>NON-RATED</td></tr> <tr><td>WALL</td><td>NON-RATED</td></tr> <tr><td>BASE</td><td>NON-RATED</td></tr> <tr><td>PENETRATIONS</td><td>NON-RATED</td></tr> </table>	HEAD	NON-RATED	WALL	NON-RATED	BASE	NON-RATED	PENETRATIONS	NON-RATED	UL DESIGN HW-D-0001 UL DESIGN #U419 UL DESIGN BW-S-0013 REFERENCE MEP
HEAD	NON-RATED																		
WALL	NON-RATED																		
BASE	NON-RATED																		
PENETRATIONS	NON-RATED																		
HEAD	NON-RATED																		
WALL	NON-RATED																		
BASE	NON-RATED																		
PENETRATIONS	NON-RATED																		

SYMBOL	DESCRIPTION
	NOT IN SCOPE
	EXISTING
	NEW WORK

- NOTES:**
- ALL INTERIOR WALL TYPES TO BE 'S4AP' UNLESS OTHERWISE NOTED.
 - WALL DIMENSIONS ARE TO FACE OF METAL STUD, FACE OF CONCRETE MASONRY UNIT (CMU), OR CENTERLINE OF COLUMN.
 - ALL RATED WALL CONSTRUCTION TO COMPLY W/ UL REQUIREMENTS.
 - ALL WALLS EXTEND TO DECK AND ARE BRACED TO DECK AT HEAD ON ALTERNATE STUDS OR 32" OC FOR CMU WALLS, UNLESS OTHERWISE NOTED.
 - CONTROL JOINTS SHALL BE AS SHOWN ON PLANS AND ELEVATIONS OR SPACED AT A MINIMUM OF 20'-0" OC AND A MAXIMUM OF 32'-0" OC WITH ONE CONTROL JOINT LOCATED WITHIN 3'-4" OF ANY CORNER. FOR INTERIOR GYPSUM WALL CONTROL JOINTS SEE DETAIL.
 - SEE FINISH SCHEDULE FOR WALL, FLOOR, BASE, AND CEILING TYPES AND FINISHES.
 - ALL COLUMN CHASES TO HAVE GYP BOARD ON ROOM SIDE OF WALL, TYPICAL UNLESS OTHERWISE NOTED.
 - ALL EXTERIOR WINDOWS TO HAVE ROLLER SHADE BLINDS UNLESS OTHERWISE NOTED, REFER TO SPECIFICATIONS.
 - FURNITURE AND EQUIPMENT SHOWN DASHED ON PLANS IS NOT IN CONTRACT (NIC), GC TO PROVIDE WOOD BLOCKING FOR ALL WALL/CEILING MOUNTED ACCESSORIES.
 - DOOR JAMB FROM INTERSECTING WALLS: STUD- 4" UNLESS OTHERWISE NOTED

WALL TYPE NAMING CONVENTION

TYPE OF CORE

- C CONCRETE
- F FURRINGS
- M MASONRY
- S METAL STUD
- W WOOD

WIDTH OF CORE

- 4 4" MASONRY, 3 5/8" METAL STUD
- 5 4" METAL STUD
- 6 6" MASONRY, 6" METAL STUD
- 8 8" MASONRY, 8" METAL STUD
- 10 10" MASONRY
- 12 12" MASONRY, 12" METAL STUD

HEIGHT OF WALL

- C UP TO CEILING
- D DETACHED - SEE DRAWINGS FOR HEIGHT
- J UP TO JOIST BEARING
- P 8' ABOVE CEILING
- U UP TO DECK ABOVE

ITERATION - SEE WALL TYPES LEGEND

- NONE IF NO LAYERS OR FINISHES
- A (EX: 1 LAYER GWB ON EACH SIDE)
- B (EX: 1 LAYER GWB ON ONE SIDE)
- C ...

NOTE:

- SEE WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.
- SEE WALL TYPE LEGEND FOR CONSTRUCTION OF ASSEMBLIES AND FIRE RATINGS UL LISTING.

NOTES:

- AT ALL METAL STUD WALLS TERMINATING AT BOTTOM OF DECK PROVIDE A DEFLECTION TRACK SECURED TO THE UNDERSIDE OF THE DECKING, NEST TOP TRACK BUT DO NOT ATTACH TO DEFLECTION TRACK
- SEE FINISH SCHEDULE FOR WALL, FLOOR BASE AND FLOOR FINISH.

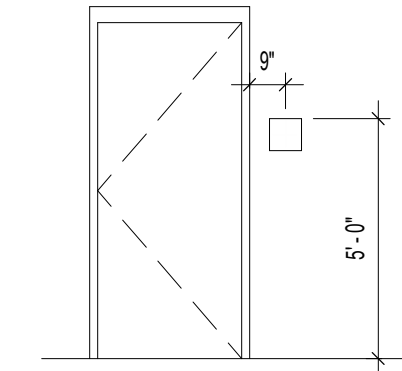
GENERAL FINISH NOTES:

- ALL GWB CEILINGS AND BULKHEADS TO BE PT-1, U.O.N.
- FINISH MATERIALS SUBMITTED AS EQUALS TO THE BASIS OF DESIGN WILL BE APPROVED OR REJECTED BASED ON COLOR INTEGRITY AND TACTILE CHARACTERISTICS IN ADDITION TO TECHNICAL SPECIFICATIONS.
- ROOMS THAT HAVE MILLWORK WITH MORE THAN THREE LAMINATE COLORS, EXACT LOCATION OF EACH TYPE TO BE DETERMINED DURING SHOP DRAWING PHASE.
- FINISHES ARE CONTINGENT ON FINAL OWNER AND ARCHITECT APPROVAL.
- SEE INTERIOR ELEVATIONS (A4-##, A4-##, & A4-##) FOR WALL PAINT LOCATIONS.
- METAL FINISHING STRIPS TO BE USED ON ALL VERTICAL OUTSIDE EDGES & CORNERS OF WALL TILE.
- FINISHED-EDGE TILE TO BE USED AT TOP COURSE OF WALL TILE.
- ALL WALLS TO BE PAINTED WITH PT3 CHALKBOARD PAINT TO RECEIVE A LEVEL 5 GWB FINISH.
- GC TO ENSURE LEVEL FLOOR FINISH AT ALL TILE TRANSITIONS.
- PT1A TO BE USED ON ALL RESTROOM WALLS ABOVE AND ADJACENT TO WALL TILE.

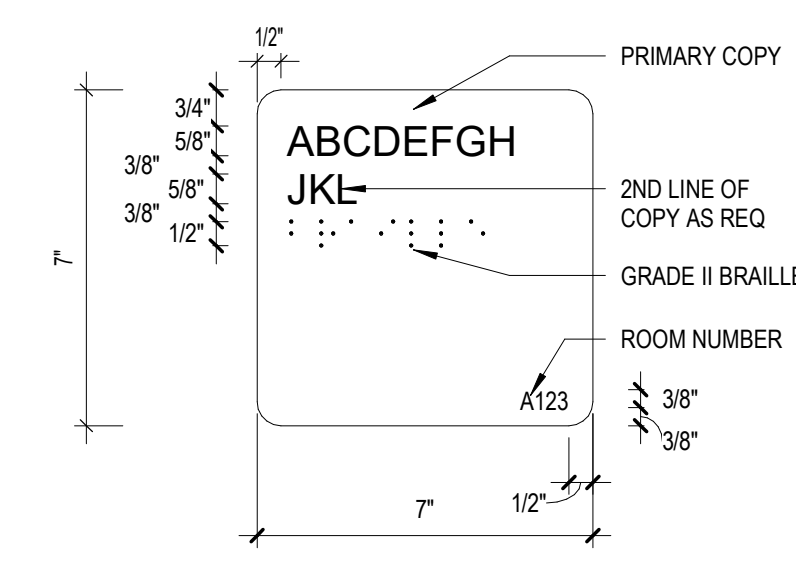
FINISH LEGEND

WALL FINISH	FLOOR FINISH
PTD1 INTERIOR FIELD PAINT 1	CPT1 CARPET TILE 1
WALL BASE	
RB RUBBER BASE	

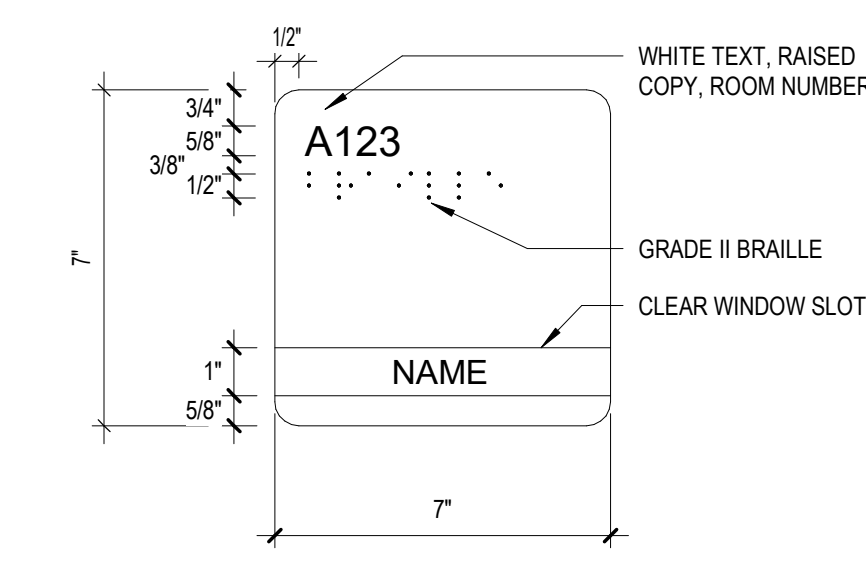
SIGNAGE ELEVATION & NOTES



SIGN TYPE A

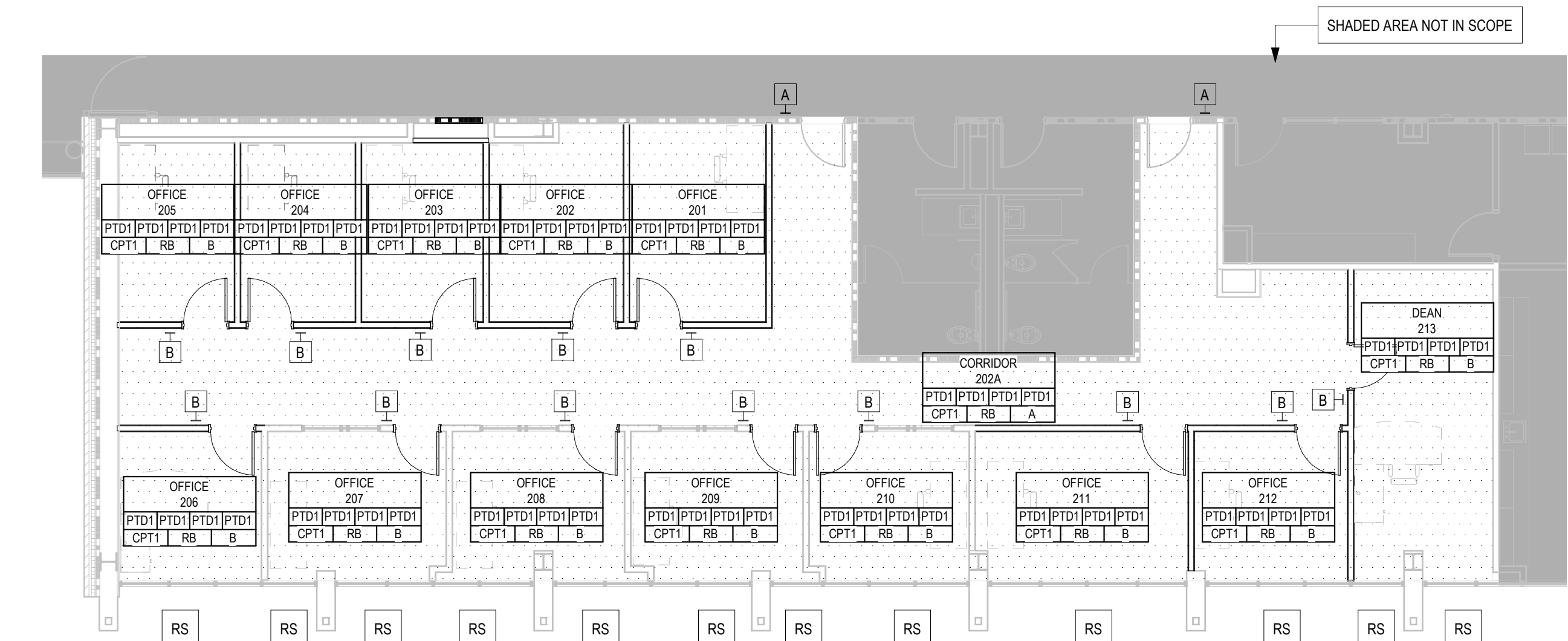


SIGN TYPE B

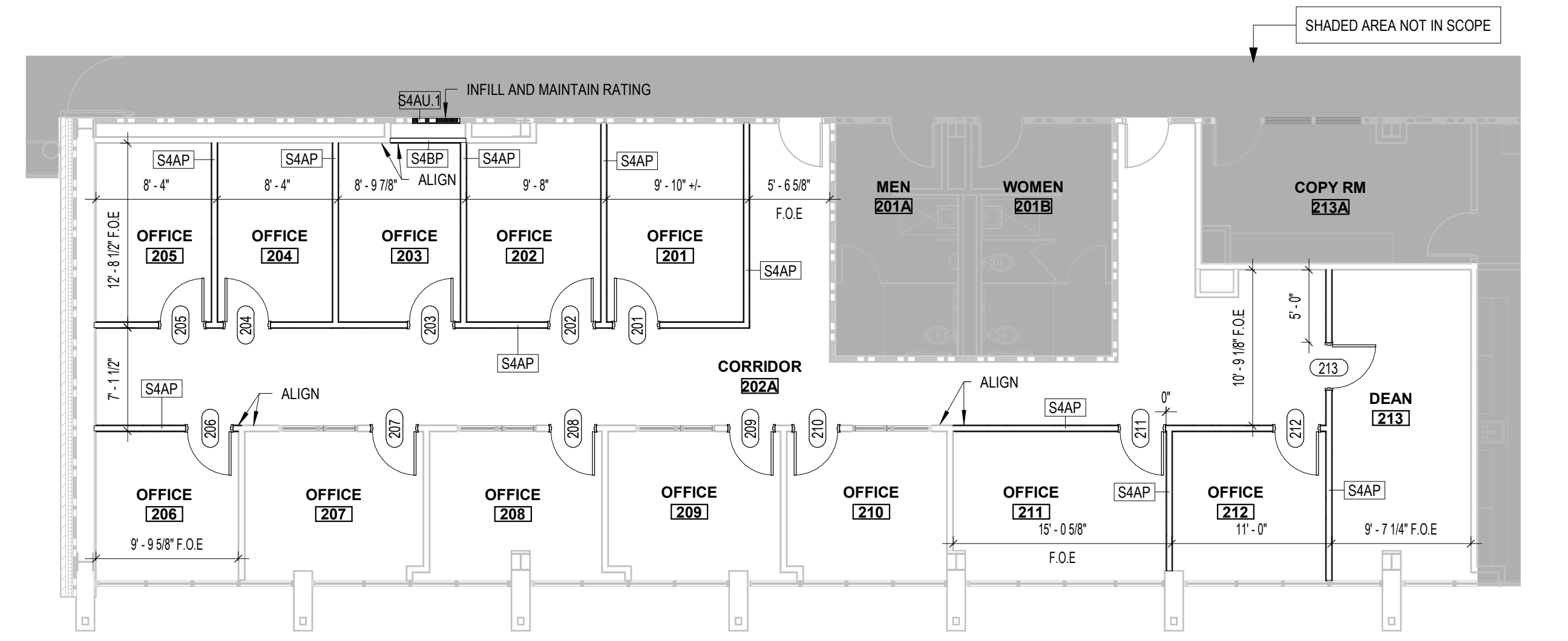


SIGNAGE LEGEND

3" = 1'-0"



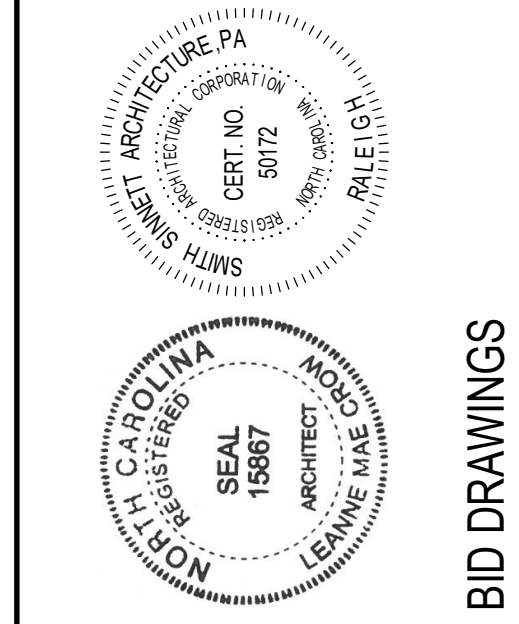
2
A1-01
1/8" = 1'-0"



1
A1-01
1/8" = 1'-0"



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F 919 781 3979
4600 Lake Boone Trail
Suite 205
Raleigh, NC 27607
info@smithsinnett.com



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CARTERET COMMUNITY COLLEGE
WAYNE WEST OFFICE RENOVATION
3713 Arendell St, Morehead City, NC 28557

ID	DATE	DESCRIPTION
1	3/14/2024	ADDENDUM 1

DRAWN BY: BS, LC
CHECKED BY: LC, RC

SECOND FLOOR PLAN AND FINISH PLAN

2023040 01 FEB 2024

A1-01

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NOTES:

1. ALL INTERIOR WALL TYPES TO BE 'SAIP' UNLESS OTHERWISE NOTED.
2. WALL DIMENSIONS ARE TO FACE OF METAL STUD, FACE OF CONCRETE MASONRY UNIT (CMU), OR CENTERLINE OF COLUMN.
3. ALL RATED WALL CONSTRUCTION TO COMPLY W/ UL REQUIREMENTS.
4. ALL WALLS EXTEND TO DECK AND ARE BRACED TO DECK AT HEAD ON ALTERNATE STUDS OR 32" OC FOR CMU WALLS, UNLESS OTHERWISE NOTED.
5. CONTROL JOINTS SHALL BE AS SHOWN ON PLANS AND ELEVATIONS OR SPACED AT A MINIMUM OF 20'-0" OC AND A MAXIMUM OF 32'-0" OC WITH ONE CONTROL JOINT LOCATED WITHIN 3'-4" OF ANY CORNER. FOR INTERIOR GYPSUM WALL CONTROL JOINTS SEE DETAIL. SEE FINISH SCHEDULE FOR WALL, FLOOR, BASE, AND CEILING TYPES AND FINISHES.
6. ALL COLUMN CHASES TO HAVE GYP BOARD ON ROOM SIDE OF WALL, TYPICAL UNLESS OTHERWISE NOTED.
7. ALL EXTERIOR WINDOWS TO HAVE ROLLER SHADE BLINDS UNLESS OTHERWISE NOTED, REFER TO SPECIFICATIONS.
8. FURNITURE AND EQUIPMENT SHOWN DASHED ON PLANS IS NOT IN CONTRACT (NIC). GC TO PROVIDE WOOD BLOCKING FOR ALL WALL/CEILING MOUNTED ACCESSORIES.
9. DOOR JAMB FROM INTERSECTING WALLS: STUD- 4" UNLESS OTHERWISE NOTED

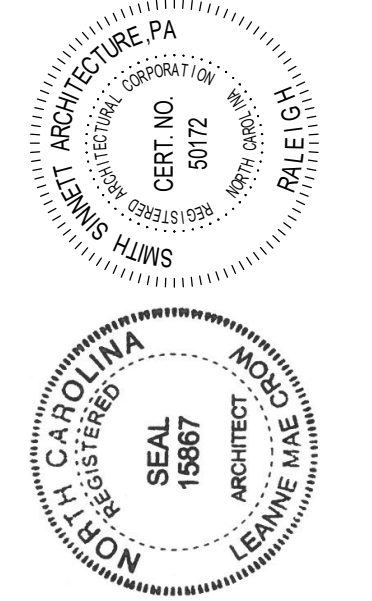
PLAN LEGEND

SYMBOL	DESCRIPTION
---	NOT IN SCOPE
---	EXISTING
---	NEW WORK

REFLECTED CEILING LEGEND AND NOTES

SYMBOL	TYPE	DESCRIPTION
	A	ACT-1, 2x2 CEILING TILE, WHITE FINISH
		2 X 4 LED FIXTURE
		RETURN AIR GRILLE
		SUPPLY AIR DIFFUSER
		EXISTING CEILING MOUNTED TV
		EXISTING CAN STYLE FIXTURE
		EXISTING OVERHEAD FIXTURE

1. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF CEILING PENETRATIONS AND FIXTURES.
2. REFER TO PROJECT SPECIFICATIONS FOR COMPLETE DESCRIPTION OF CEILING MATERIAL.



BID DRAWINGS

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Smith Sinnett Architecture, P.A. 2024

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CARTERET COMMUNITY COLLEGE
WAYNE WEST OFFICE RENOVATION

3713 Arendell St, Morehead City, NC 28557

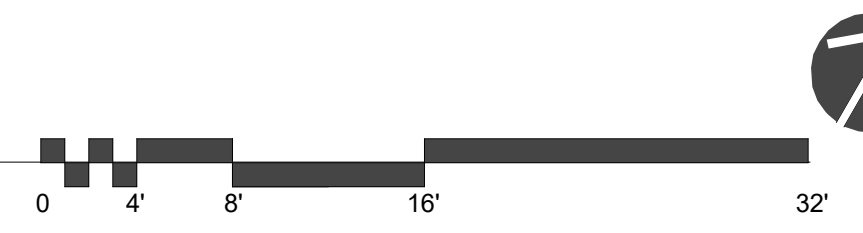
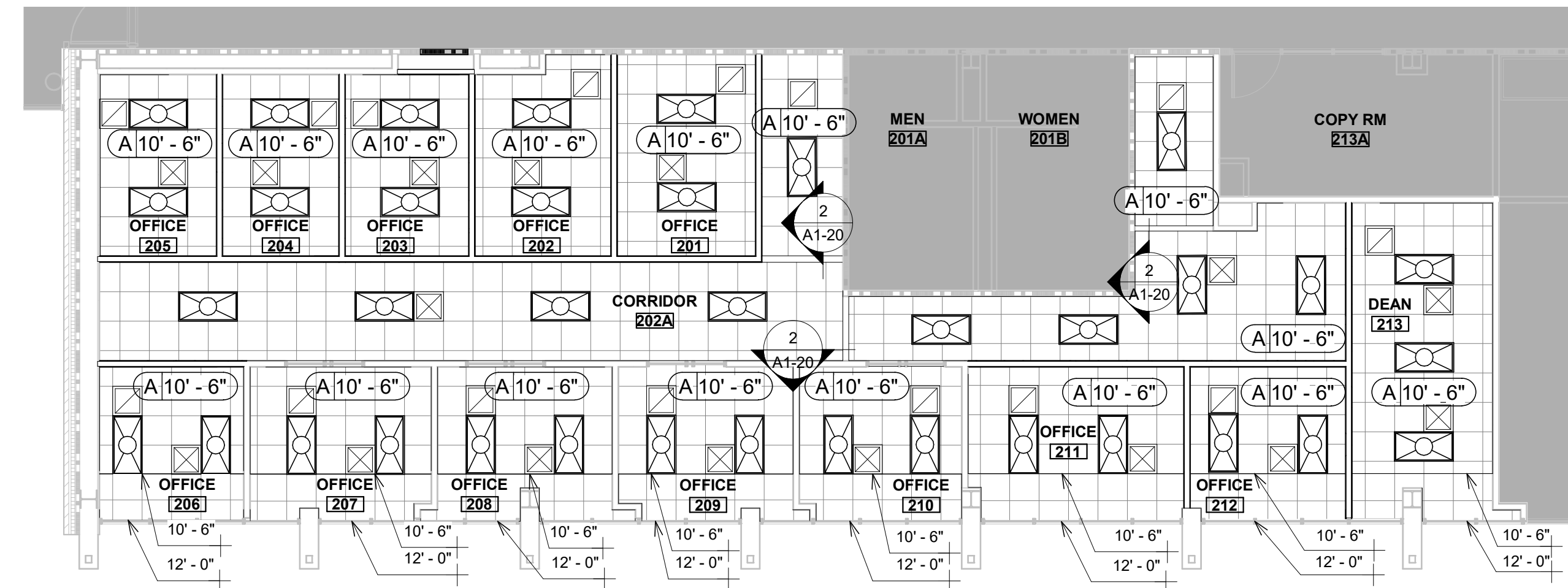
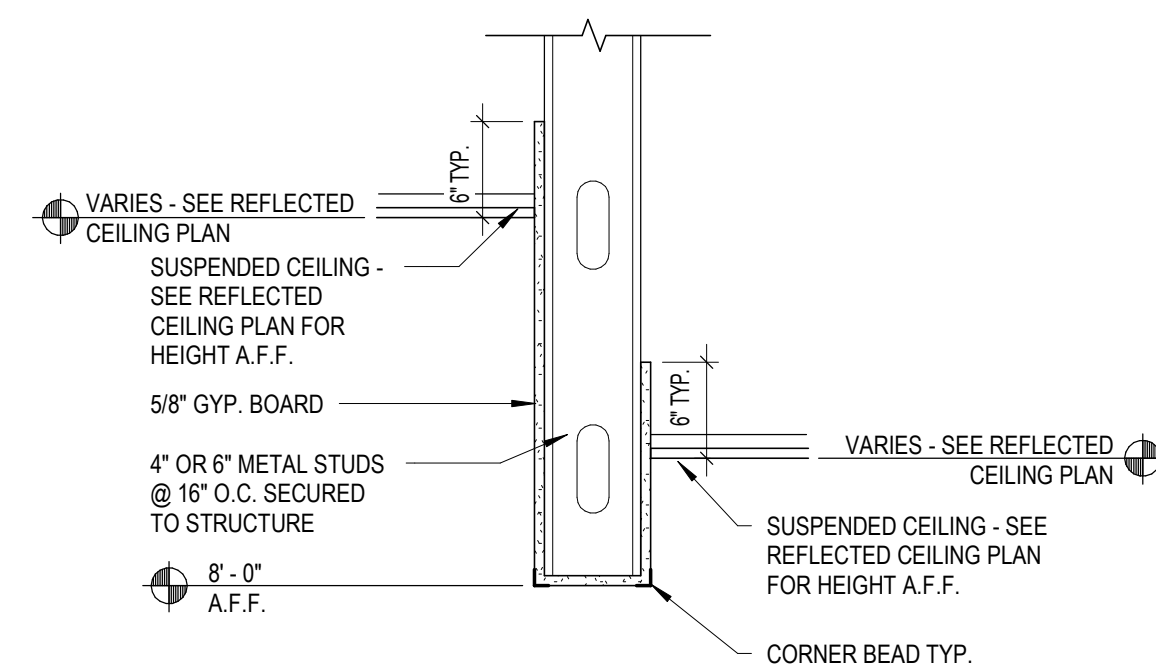
ID	DATE	DESCRIPTION
1	3/14/2024	ADDENDUM 1

DRAWN BY: BS, LC
CHECKED BY: LC, RC

REFLECTED CEILING PLAN

2023040 01 FEB 2024

A1-20





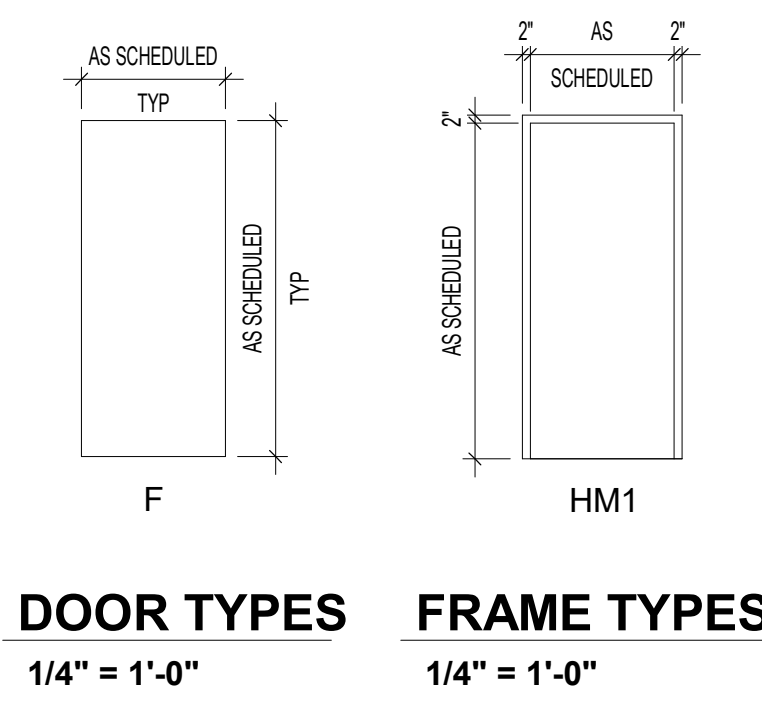
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Smith Sinnett Architecture, P.A. 2024
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CARTERET COMMUNITY COLLEGE
WAYNE WEST OFFICE RENOVATION
3713 Arendell St, Morehead City, NC 28557

1	3/14/2024	ADDENDUM 1
ID	DATE	DESCRIPTION

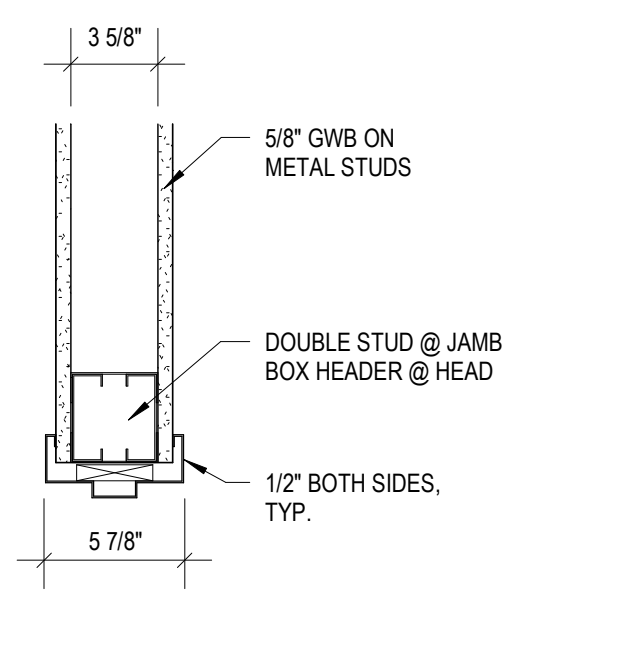
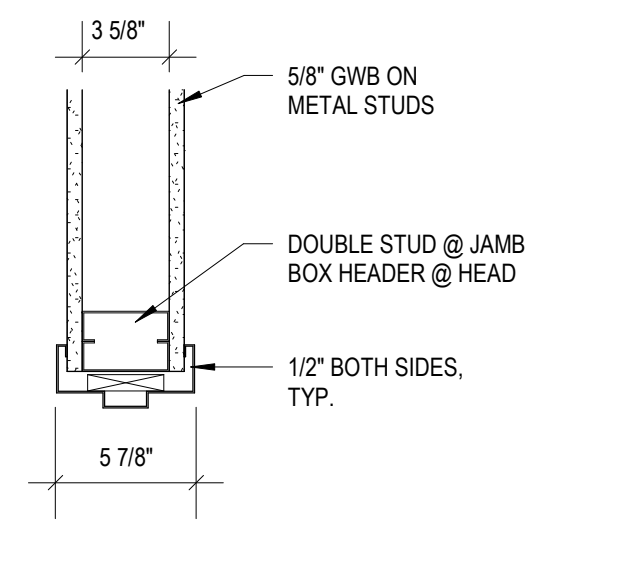
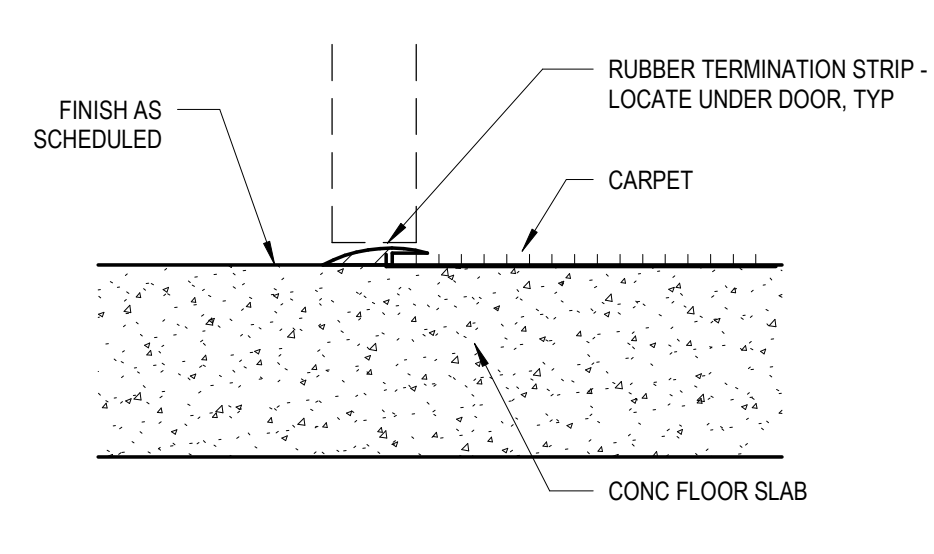
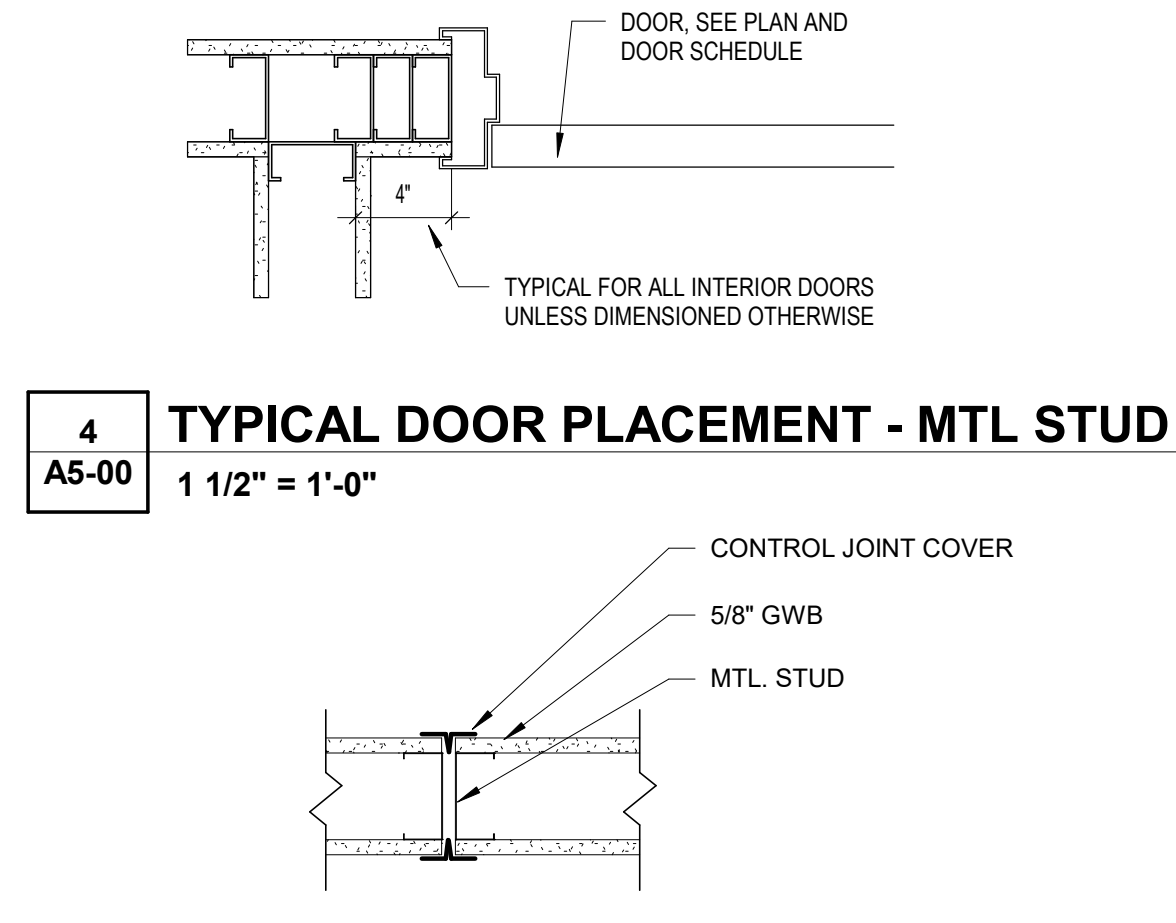
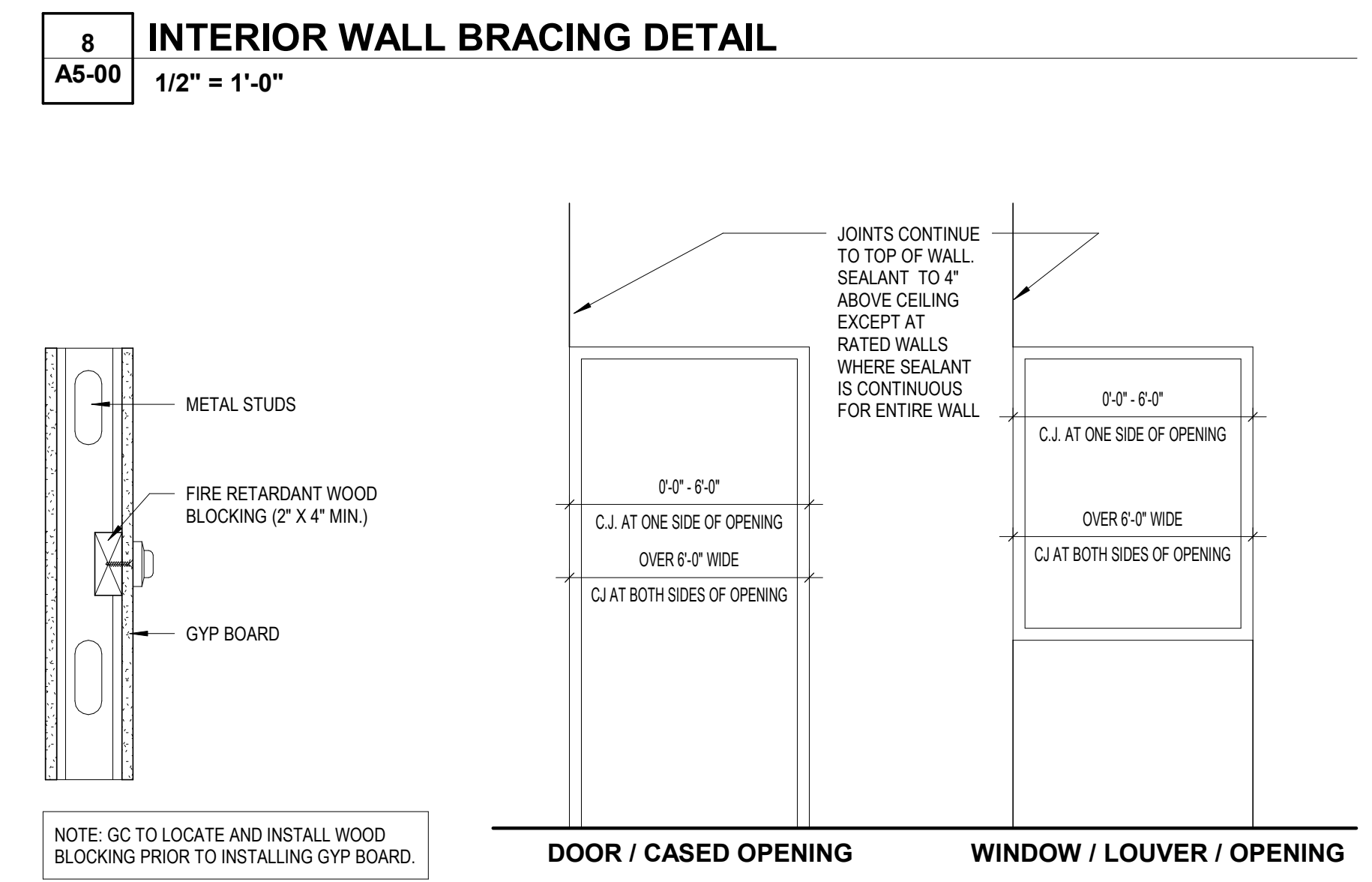
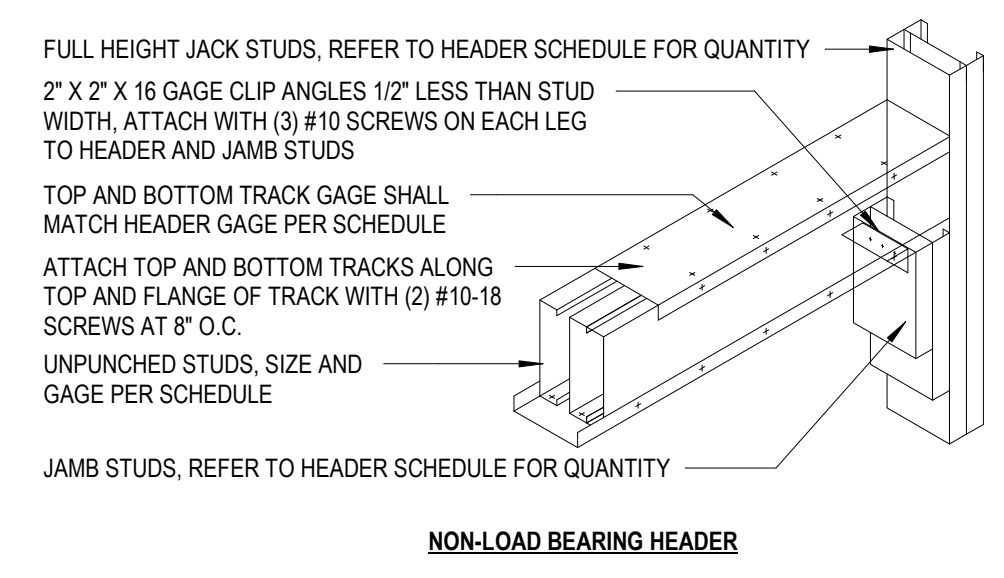
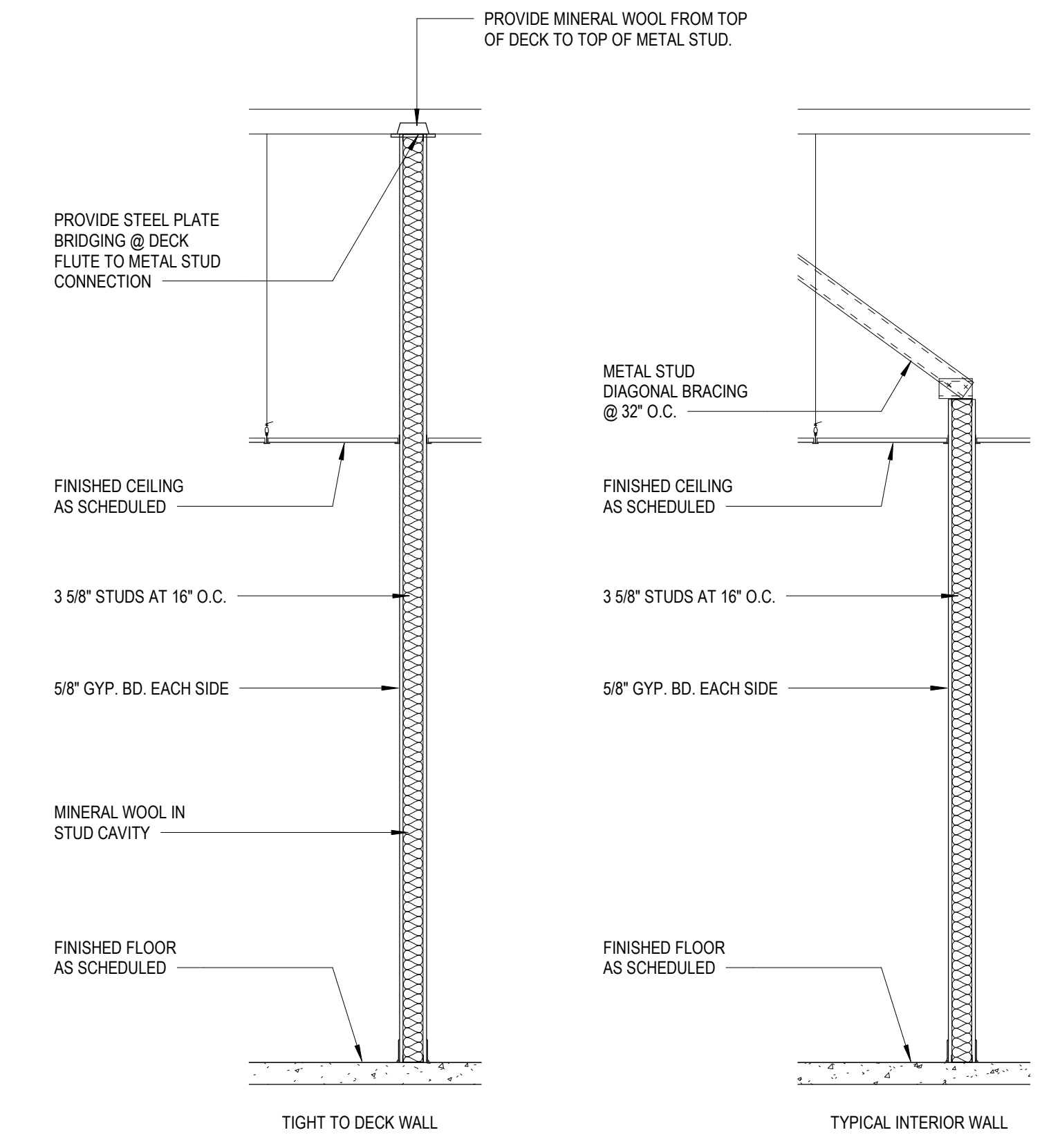
DRAWN BY: BS, LC
CHECKED BY: LC, RC
DOOR SCHEDULE AND DETAILS

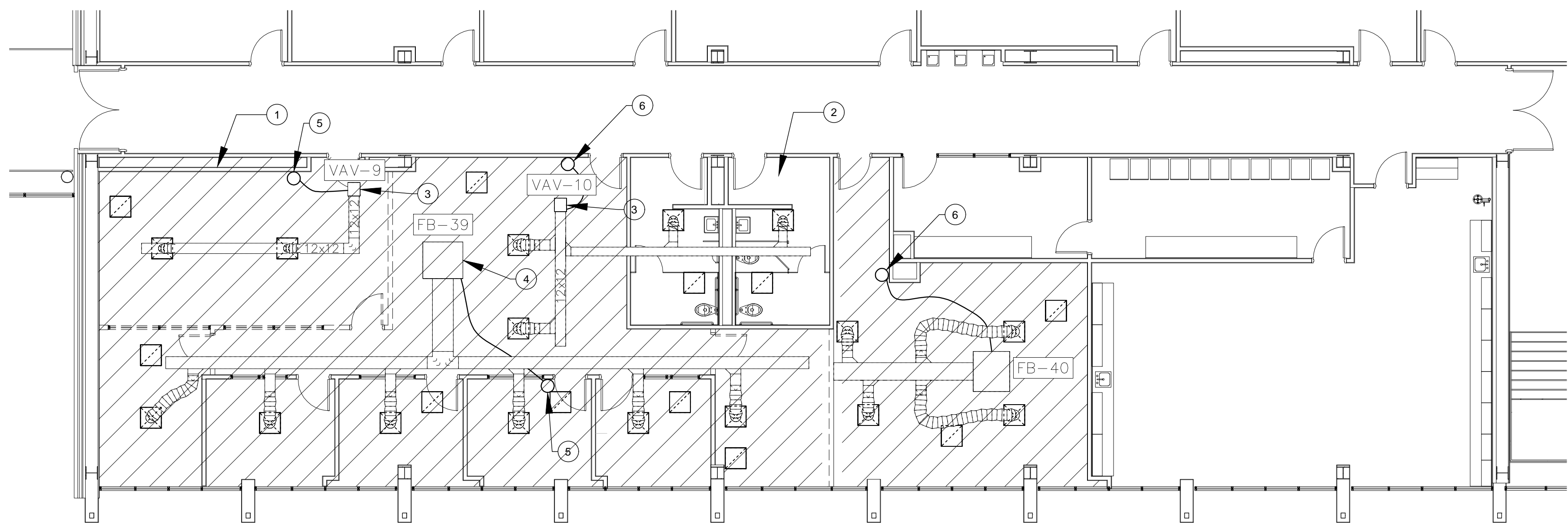
DOOR MARK	DOOR SIZE			THK	MAT	TYPE	LVS	FRAME			HARDWARE SET	FIRE RATING	Comments	
	WIDTH	HEIGHT	SW					MAT	TYPE	DETAILS				
201	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	HM1	H1	J1	--	1	--	NEW
202	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	HM1	H1	J1	--	1	--	NEW
203	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	HM1	H1	J1	--	1	--	NEW
204	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	HM1	H1	J1	--	1	--	NEW
205	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	HM1	H1	J1	--	1	--	NEW
206	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	HM1	H1	J1	--	1	--	NEW
207	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	--	H1	J1	--	1	--	REUSE EXISTING FRAMES. REPLACE DOOR ONLY.
208	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	--	H1	J1	--	1	--	REUSE EXISTING FRAMES. REPLACE DOOR ONLY.
209	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	--	H1	J1	--	1	--	REUSE EXISTING FRAMES. REPLACE DOOR ONLY.
210	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	--	H1	J1	--	1	--	REUSE EXISTING FRAMES. REPLACE DOOR ONLY.
211	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	HM1	H1	J1	--	1	--	NEW
212	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	HM1	H1	J1	--	1	--	NEW
213	3'-0"	7'-0"	1 3/4"	SCWD	F	1	HM	HM1	H1	J1	--	1	--	NEW



HARDWARE GROUP SET 1
Provide each door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE, FULL MORTISE	TA2714 NRP	US26D	MK
1 EA	OFFICE/ENTRY LOCK	21 8205 LNB GGMK	US26D	SA
1 EA	WALL STOP	406	US32D	RO
1 EA	COAT HOOK	RM630	US32D	RO
3 EA	SILENCER	608-RKW	RO	RO

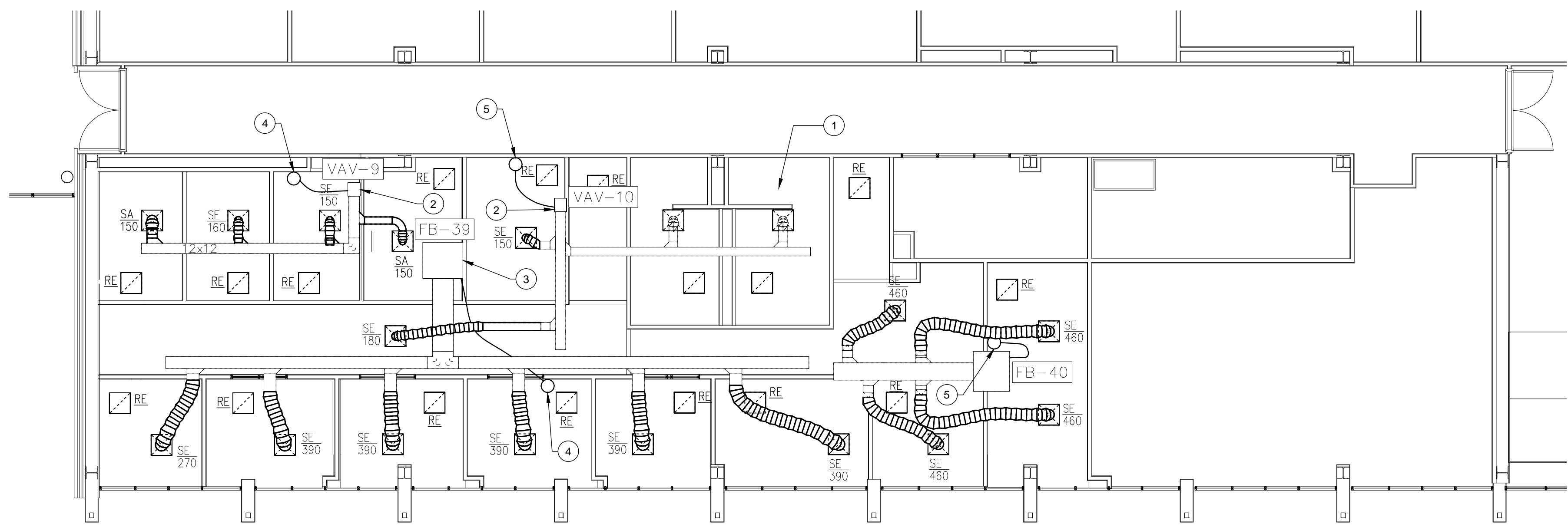




HVAC DEMOLITION PLAN NOTES

1. REMOVE AND RELOCATE ALL EXISTING DIFFUSERS TO LOCATIONS SHOWN ON ON HVAC PLAN BELOW. ALL DUCTWORK IS EXISTING TO REMAIN UNLESS REPAIRS ARE NEEDED TO EXISTING DUCT.
2. ALL EXISTING DUCT AND DIFFUSERS WITHIN THE BATHROOM ARE EXISTING TO REMAIN.
3. EXISTING VAV BOX. MEDIUM PRESSURE DUCT FEEDING VAV BOXES NOT SHOWN FOR CLARITY.
4. EXISTING FAN POWERED VAV BOX. MEDIUM PRESSURE DUCT FEEDING VAV BOXES NOT SHOWN FOR CLARITY.
5. EX. SENSOR TO REMAIN.
6. EX. SENSOR TO BE RELOCATED.

1
M1
HVAC DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



HVAC PLAN NOTES

1. ALL EXISTING DUCT AND DIFFUSERS WITHIN THE BATHROOMS ARE EXISTING TO REMAIN.
2. EXISTING VAV BOX. MEDIUM PRESSURE DUCT FEEDING VAV BOXES NOT SHOWN FOR CLARITY.
3. EXISTING FAN POWERED VAV BOX. MEDIUM PRESSURE DUCT FEEDING VAV BOXES NOT SHOWN FOR CLARITY.
4. EX. CONTROLS SENSOR TO REMAIN.
5. RELOCATE EX. SENSOR TO HERE.

2
M1
HVAC PLAN
SCALE: 1/8" = 1'-0"

HVAC LEGEND

	SIDEWALL SUPPLY GRILL
	SIDEWALL RETURN GRILL
	CEILING SUPPLY GRILL
	CEILING RETURN GRILL
	EXHAUST GRILL
	RECTANGULAR RIGID DUCT
	ROUND RIGID DUCT
	ROUND FLEXIBLE DUCT
	MANUAL BALANCING DAMPER
	90 DEGREE BEND WITH TURNING VANES
	DUCT MOUNTED SMOKE DETECTOR
	BACK DRAFT DAMPER
	1 1/2 HR. FIRE DAMPER, LISTED PER UL 555
	PROGRAMMABLE THERMOSTAT
	CARBON DIOXIDE DETECTOR

HVAC SPECIFICATIONS GENERAL

1. INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NORTH CAROLINA STATE MECHANICAL CODE AND ALL OTHER APPLICABLE LOCAL AND NATIONAL CODES.
2. CONTRACTOR SHALL PROVIDE ALL LICENSES, FEES, PERMITS, INSURANCE, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK.
3. INSTALLATION SHALL COMPLY WITH OSHA STANDARDS.
4. TESTING & BALANCING OF AIR CONDITIONING SYSTEMS SHALL BE AS SHOWN ON THE PLANS. THIS WORK MAY BE PERFORMED BY THE MECHANICAL CONTRACTOR AND SHALL BE WITHIN 10% OF AIR FLOWS SHOWN.

DUCT

1. ALL DUCT SHALL BE FABRICATED AND SUPPORTED IN ACCORDANCE WITH APPLICABLE SMACNA STANDARDS.
2. ALL SUPPLY AND RETURN DUCT SHALL HAVE A MINIMUM PRESSURE CLASSIFICATION OF 2" W.G.
3. ALL DUCT SHALL BE UL LABELED FOR CLASS I AIR DUCT MEETING NFPA 90 FLAME SPREAD AND SMOKE GENERATION REQUIREMENTS.
4. ALL DUCT SIZES SHOWN ON PLANS ARE INSIDE CLEAR DIMENSIONS.
5. ALL TURNS SHALL UTILIZE SINGLE THICKNESS TURNING VANES OR RADIUS BEND.
6. ALL TAKE-OFFS SHALL BE 45 DEGREE TYPE.
7. DUCT MATERIALS AND REQUIREMENTS.

7.1. HVAC SUPPLY AND RETURN DUCTS.

- 7.1.1. ABOVE ACOUSTICAL CEILING - SINGLE-WALL GALVANIZED SHEET METAL WITH 2" FOIL-BACKED INSULATION UNLESS OTHERWISE NOTED OR FLEX DUCT WITH MINIMUM R6 INSULATION VALUE (ATCO UPC #036 OR EQUAL) MAY BE USED ON RUNOUTS.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	MODEL	NOTES
RE	EXISTING RETURN GRILL		RELOCATE TO LOCATION SHOWN ON HVAC PLAN.
SA	NEW 24X24 LAY-IN SUPPLY DIFFUSER - 9" RUNOUT	METALAIRE 5000 OR EQUAL TO MATCH EXISTING	
SE	EXISTING SUPPLY GRILL		RELOCATE TO LOCATION SHOWN ON HVAC PLAN. REPLACE FLEX RUNOUT AS NEEDED.

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

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT **N/A - EXISTING**

Thermal Zone
winter dry bulb: _____
summer dry bulb: _____

Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____

Building cooling load: _____

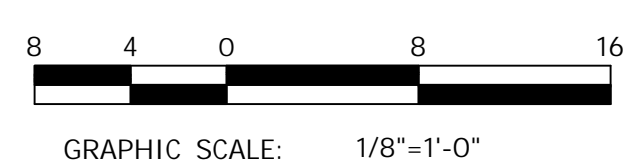
Mechanical Spacing Conditioning System
Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____
Boiler
Size category. If oversized, state reason: _____
Chiller
Size category. If oversized, state reason: _____

List equipment efficiencies: _____

2018 NC Administrative Code and Policies

Appendix B for Building REVISIONS

BY	NO.	DATE	DESCRIPTION
WGB	1	3/27/24	LAYOUT CHANGES



North Carolina Professional Engineer
#PE021990
L. Michael Stroud
3/27/2024
L. MICHAEL STROUD, P.E.

HVAC PLAN

**CARTERET COMMUNITY COLLEGE
WAYNE WEST OFFICE RENOVATIONS**

MOREHEAD CITY CARTERET COUNTY NORTH CAROLINA

OWNER: CARTERET COMMUNITY COLLEGE
ADDRESS: 3713 ARENDELL ST
MOREHEAD CITY, NC 28557
PHONE: _____

DESIGNED: WGB	DATE: 02/06/2024
DRAWN: WGB	SCALE: AS NOTED
APPROVED: LMS	SHEET M1 OF 1

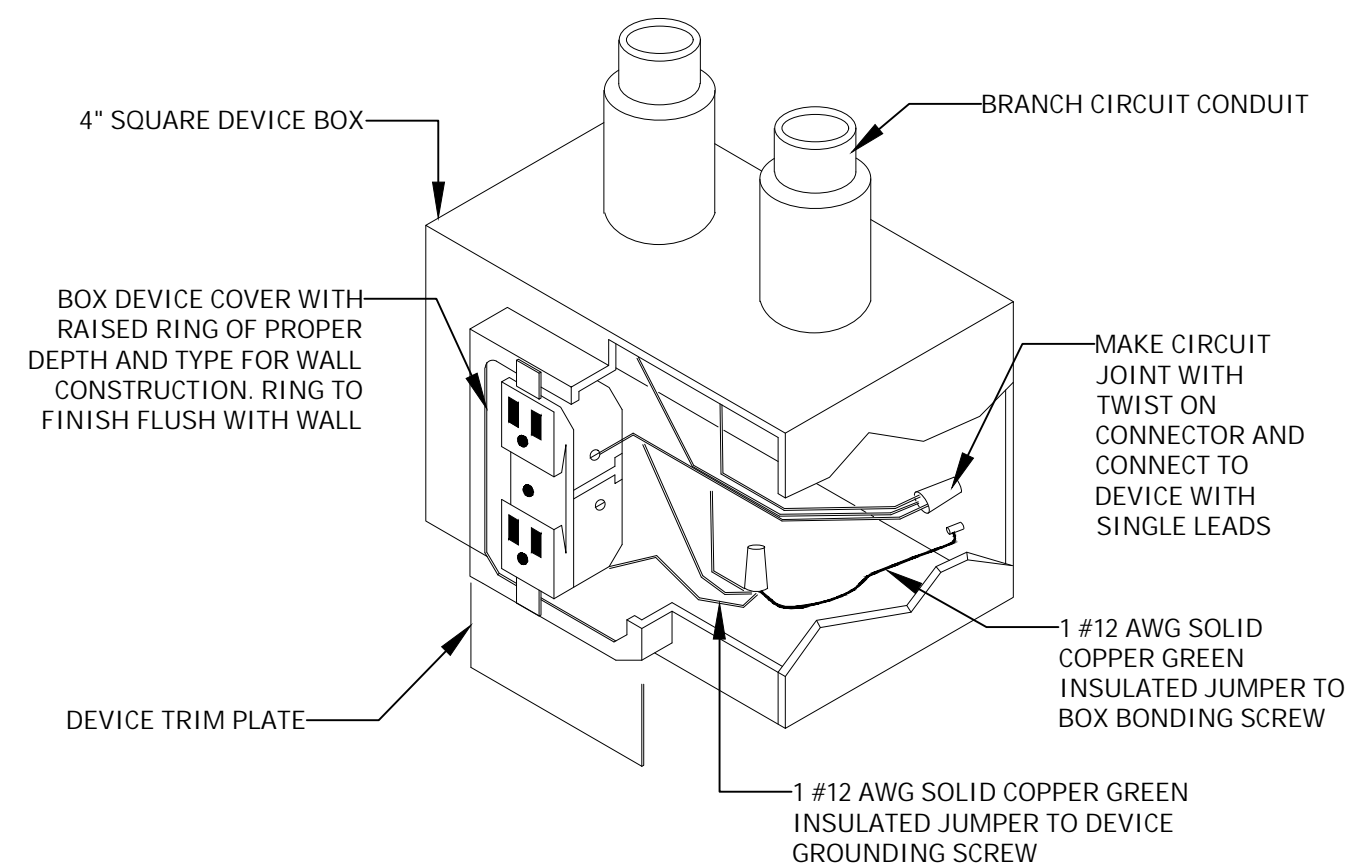
STROUD ENGINEERING, P.A.
422 HIGHWAY 24
MOREHEAD CITY, NC 28557
(252) 247-7479 LICENSE NO. C-0647

ELECTRICAL ABBREVIATIONS:

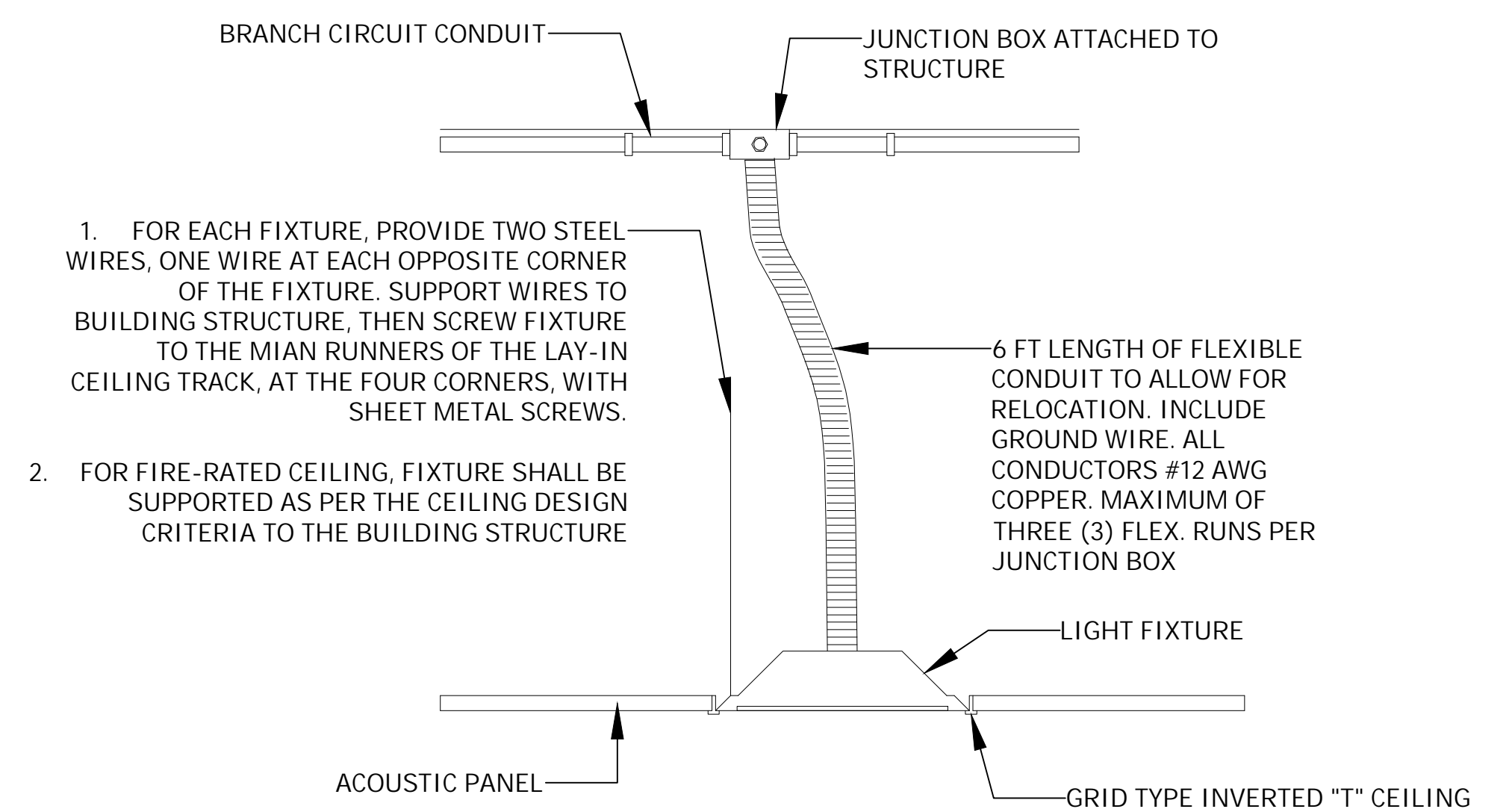
AF	AMP FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR-HANDLER UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMP TRIP
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
CU	CONDENSING UNIT
DISC	DISCONNECT
E.C.	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EHH	ELECTRIC HAND HOLE
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
G	GROUND
GFCI	GROUND FAULT CURRENT INTERRUPT
GRC	GALVANIZED RIGID CONDUIT
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
IG	ISOLATED GROUND
KVA	KILOVOLT AMPERE
KW	KILOWATT
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUG ONLY
MOC	MAXIMUM OVERCURRENT PROTECTION
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE (NFPA 70)
NFPA	NATIONAL FIRE PROTECTION AGENCY
NIC	NOT IN CONTRACT
NL	NIGHTLIGHT
NTS	NOT TO SCALE
Ø	PHASE
OC	ON CENTER
P	POLE
PB	PULL BOX
PVC	POLYVINYL CHLORIDE
RCPT	RECEPTACLE
SCCR	SHORT CIRCUIT CURRENT RATING
SPEC	SPECIFICATIONS
SQ	SQUARE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VIF	VERIFY IN FIELD
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER

2L											
ROOM MOUNTING SURFACE			VOLTS 480Y/277V 3P 4W			AIC 25,000					
FED FROM UTILITY			BUS AMPS 125			MAIN BKR MLO					
NOTE			NEUTRAL 100%			LUGS STANDARD					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	EX. BREAKER	2.9			2	20/1	EX. SPARE	0		
3	20/1	EX. BREAKER		3.1		4	20/1	EX. SPARE		0	
5	20/1	EX. BREAKER			1.4	6	20/1	EX. SPARE			0
7	20/1	EX. BREAKER	3.3			8	20/1	EX. SPARE	0		
9	20/1	EX. BREAKER		3.3		10	20/1	EX. SPARE		0	
11	20/1	LIGHTING			1.08	12	20/1	EX. SPARE			0
13	20/1	LIGHTING	0.479			14	20/1	EX. SPARE	0		
15	20/1	EX. BREAKER		3.5		16	20/1	EX. SPARE		0	
17	20/1	EX. BREAKER			3.5	18	20/1	EX. SPARE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE	0		
25	20/1	SPACE	0			26	20/1	SPACE			0
27	20/1	SPACE		0		28	20/1	SPACE		0	
29	20/1	SPACE			0	30	20/1	SPACE			0
TOTAL CONNECTED KVA BY PHASE									6.68	9.9	5.98
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			22.6	28.2	(125%)	TOTAL LOAD BALANCED 3-PHASE LOAD			28.2	33.9	A

2PB-1											
ROOM MOUNTING FLUSH			VOLTS 208Y/120V 3P 4W			AIC 10,000					
FED FROM UTILITY			BUS AMPS 225			MAIN BKR MLO					
NOTE			NEUTRAL 200%			LUGS DOUBLE					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	EX. BREAKER	0.9			2	20/1	EX. BREAKER	1.5		
3	20/1	EX. BREAKER		1		4	20/1	RCPT - OFFICE 201		0.72	
5	20/1	EX. BREAKER			1	6	20/1	RCPT - OFFICE 202, CORRIDOR 202A			0.9
7	20/1	EX. BREAKER	1			8	20/1	RCPT - OFFICE 203	0.72		
9	20/1	EX. BREAKER		0		10	20/1	RCPT - OFFICE 204		0.72	
11	20/1	EX. BREAKER			1.4	12	20/1	RCPT - OFFICE 205			0.72
13	20/1	EX. BREAKER	1.4			14	20/1	RCPT - OFFICE 206, CORRIDOR 202A	0.36		
15	20/1	EX. BREAKER		1.4		16	20/1	RCPT - OFFICE 211, CORRIDOR 202A		0.54	
17	20/1	EX. BREAKER			1.4	18	20/1	RCPT - OFFICE 212, DEAN 213			0.9
19	20/1	EX. BREAKER	1.4			20	20/1	SPACE	0		
21	20/1	EX. BREAKER		1.4		22	20/1	SPACE		0	
23	20/1	EX. BREAKER			0	24	20/1	EX. BREAKER			1.1
25	20/1	EX. BREAKER	0			26	20/1	EX. BREAKER	1.1		
27	20/1	EX. BREAKER		0		28	20/1	EX. BREAKER		0.7	
29	20/1	EX. BREAKER			0	30	20/1	EX. BREAKER			0.7
31	20/1	EX. BREAKER	0			32	20/1	EX. BREAKER	0.2		
33	20/1	EX. BREAKER		0		34	20/1	SPACE			0
35	20/1	EX. BREAKER			0.5	36	20/1	EX. BREAKER			0.2
37	20/1	EX. BREAKER	0.5			38	20/1	EX. BREAKER	0.4		
39	20/1	EX. BREAKER		0.5		40	20/1	SPACE		0	
41	20/1	EX. BREAKER			0.5	42	20/1	SPACE			0
TOTAL CONNECTED KVA BY PHASE									9.48	6.98	9.32
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
RECEPTACLES CONTINUOUS			25	17.5	(50%>10) (125%)	TOTAL LOAD BALANCED 3-PHASE LOAD			18.5	51.3	A



1
E1
TYPICAL RECEPTACLE GROUNDING DETAIL
SCALE: NONE



- FOR EACH FIXTURE, PROVIDE TWO STEEL WIRES, ONE WIRE AT EACH OPPOSITE CORNER OF THE FIXTURE. SUPPORT WIRES TO BUILDING STRUCTURE, THEN SCREW FIXTURE TO THE MIAN RUNNERS OF THE LAY-IN CEILING TRACK, AT THE FOUR CORNERS, WITH SHEET METAL SCREWS.
- FOR FIRE-RATED CEILING, FIXTURE SHALL BE SUPPORTED AS PER THE CEILING DESIGN CRITERIA TO THE BUILDING STRUCTURE

2
E1
LAY-IN CEILING DETAIL
SCALE: NONE

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

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

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

Lighting schedule (each fixture type)

lamp type required in fixture }
number of lamps in fixture } **See Schedule on Sheet E4**
ballast type used in the fixture }
number of ballasts in fixture }
total wattage per fixture }
total interior wattage specified vs. allowed (whole renovation area) 1,484.4W/2400.66W
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)

- C406.2 More Efficient Mechanical Equipment
- C406.3 Reduced Lighting Power Density
- C406.4 Enhanced Digital Lighting Controls
- C406.5 On-Site Renewable Energy
- C406.6 Dedicated Outdoor Air System
- C406.7 Reduced Energy Use in Service Water Heating

REVISIONS			
BY	NO.	DATE	DESCRIPTION
WGB	1	3/27/24	ADDENDUM 1

ELECTRICAL COVER SHEET

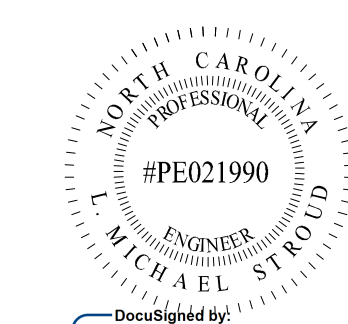
CARTERET COMMUNITY COLLEGE
WAYNE WEST OFFICE RENOVATIONS

MOREHEAD CITY CARTERET COUNTY NORTH CAROLINA

OWNER: CARTERET COMMUNITY COLLEGE
ADDRESS: 3713 ARENDELL ST
MOREHEAD CITY, NC 28557
PHONE: _____

DESIGNED: WGB DATE: 02/06/2024
DRAWN: WGB SCALE: AS NOTED
APPROVED: LMS SHEET E1 OF 5

STROUD ENGINEERING, P.A.
422 HIGHWAY 24
MOREHEAD CITY, NC 28557
(252) 247-1479 LICENSE NO. C-0647



Documented by:
L. Michael Stroud
3/27/2024
L. MICHAEL STROUD, P.E.

PM3167-001
CCC WAYNE WEST SECOND FLOOR OFFICE RENOVATIONS
MOREHEAD CITY, NC

PART 1 GENERAL

- 1.01 GENERAL REQUIREMENTS
A. THE CONTRACTOR SHALL COMPLY WITH ALL THE LAWS, ORDINANCES, RULES AND REGULATIONS OF ALL LOCAL AND STATE GOVERNMENT AUTHORITIES...
B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY ANY OF THE FOREGOING AUTHORITIES...
C. THE SITE LOCATION AND CIRCUITING OF SYSTEMS INDICATED TO HAVE NEW CONNECTIONS MADE TO THEM ARE SHOWN AS ACCURATELY AS FIELD CONDITIONS WOULD PERMIT...
D. THE CONTRACTOR SHALL INSTALL AND CONNECT ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND, UNLESS OTHERWISE SHOWN OR SPECIFIED, FOLLOW THE MANUFACTURER'S INSTRUCTIONS...
E. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC AND FOR BIDDING PURPOSES ONLY...
F. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE AMONG MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL ITEMS...
G. THE CONTRACTOR SHALL TEST ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND DEMONSTRATE TO OWNER ITS PROPER OPERATIONS...
H. ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED IN FULL FROM THE DATE OF FINAL ACCEPTANCE...
I. ALL EQUIPMENT INSTALLED SHALL BE NEW AND SHALL CONFIRM IN ALL RESPECTS TO THE LATEST APPROVED STANDARDS OF IEEE, ANSI, NEMA AND UNDERWRITERS LABORATORIES, INC...
J. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE CONTRACT AREA AND ALL OTHER AREAS USED FOR STORAGE, STAGING, ETC...
K. PROVIDE TEMPORARY SERVICE FOR LIGHTING AND POWER EQUIPMENT (DRILLS, SAW, ETC.) VERIFY TEMPORARY REQUIREMENTS...
L. FINAL TESTING: AT THE TIME OF FINAL INSPECTION AND TESTS, ALL CONNECTIONS AT PANELBOARDS, DEVICES AND EQUIPMENT AND ALL SPLICES MUST BE COMPLETED...
M. THE CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DRAWINGS, SPECIFICATIONS, EQUIPMENT INSTALLATION INSTRUCTIONS AND SHOP DRAWINGS...
N. CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF OSHA AS APPLIED TO CONSTRUCTIONS PROJECTS...
O. IN THE EVENT A CONFLICT OCCURS BETWEEN THE CONTRACT, SPECIFICATIONS, DRAWINGS, REFERRED TO MANUFACTURER'S LITERATURE...
P. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER AND ALIGNED, LEVELLED AND ADJUSTED FOR SATISFACTORY OPERATION...
Q. ALL ELECTRICAL APPARATUS SHALL BE INSTALLED AT THE MOUNTED HEIGHTS INDICATED ON THE DRAWINGS...
R. THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE EVERY DETAIL OF CONSTRUCTION...
S. CONTRACTOR SHALL MAINTAIN ON THE JOB SITE ONE COMPLETE SET OF CONTRACT DOCUMENTS OF ALL TRADES...
T. INDICATED LOCATIONS OF OUTLETS, EQUIPMENT CONNECTIONS, ETC. ARE APPROXIMATE AND SHALL BE VERIFIED BY REFERENCE TO RELATED DOCUMENTS...
U. ONE LINE DIAGRAMS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW ALL REQUIRED MATERIALS, DEVICES AND QUANTITIES...
V. THE CONTRACT DOCUMENTS ARE INTENDED TO ILLUSTRATE TO COMPETENT AND EXPERIENCED CONTRACTORS AND WORKMEN THE SYSTEMS REQUIRED...
W. THE AESTHETIC APPEARANCE OF THE UNDERSIDE OF THE EXPOSED ROOF DECK, AND WALLS IS CRITICAL...
X. PROVIDE ALL ACCESS PANELS AND ACCESS DOORS WHERE REQUIRED FOR SERVICING AND ADJUSTING ALL EQUIPMENT...
Y. ALL ELECTRICAL DEVICES SHALL BE ALIGNED WITH THE ARCHITECTURAL FEATURES OF THE BUILDING...
Z. FOR WALL AND FLOOR PENETRATIONS MADE BY CONTRACTOR, FIRE PROOFING SHALL BE PROVIDED AFTER ALL CONDUITS OR SLEEVES ARE INSTALLED...

1.02 DEFINITIONS

- A. 'PROVIDE' UNDER THIS CONTRACT IS DEFINED AS FURNISH AND INSTALL.
B. 'CONCEALED' UNDER THIS CONTRACT IS DEFINED AS HIDDEN BY ARCHITECTURAL WALLS AND CEILINGS.
C. 'EXPOSED' UNDER THIS CONTRACT IS DEFINED AS VISIBLE TO VIEW.
D. 'INDICATED' UNDER THIS CONTRACT IS DEFINED AS SHOWN IN THE CONTRACT DOCUMENTS.

PART 2 RACEWAYS, BOXES AND CONDUITS

- 2.01 GENERAL REQUIREMENTS
A. INDOOR WIRING METHODS:
1. CONNECTION TO VIBRATING EQUIPMENT: FLEXIBLE METALLIC CONDUIT...
2. EXPOSED, UNFINISHED AREAS ONLY: ELECTRICAL METALLIC TUBING (EMT) OR GALVANIZED RIGID CONDUIT (GRC)...
3. CONCEALED, ELECTRICAL METALLIC TUBING OR, AS APPROVED, METAL CLAD (MC) BOXES, COVERS AND ENCLOSURES...
4. RIGID PVC 40 CONDUIT IS PERMITTED FOR UNDER GROUND/SLAB FEEDERS AND BRANCH CIRCUITS...
5. CONDUIT TRANSITIONS FROM UNDER GROUND TO ABOVE GROUND LOCATIONS SHALL BE MADE WITH GALVANIZED HEAVY WALL RIGID ELLS...
B. OUTDOOR WIRING METHODS: PROVIDE UNDERGROUND WARNING TAPES FOR ALL SERVICE AND FEEDER CONDUITS...
1. CONNECTION TO VIBRATING EQUIPMENT: FLEXIBLE METAL SEAL-TIGHT CONDUIT OR NON-METALLIC SEAL TIGHT CONDUIT WITH LISTED FITTINGS...
2. EXPOSED: GALVANIZED RIGID CONDUIT (GRC) OR SCHEDULE 40 PVC WHEN SUBJECT TO PHYSICAL DAMAGE...
3. BOXES, COVERS AND ENCLOSURES: NEMA 3R MINIMUM OR AS OTHERWISE NOTED ON DRAWINGS...
4. CONDUIT TRANSITIONS FROM UNDERGROUND TO ABOVE GROUND LOCATIONS SHALL BE MADE WITH PHYSICAL HEAVY WALL RIGID ELLS...

- C. DO NOT ROUTE CONDUIT EXPOSED ON OUTSIDE OF BUILDING WALLS, UNLESS ROUTING IS REVIEWED AND APPROVED BY ARCHITECT/ENGINEER.
D. ALL CIRCUITRY IN EXTERIOR FINISHED AREAS SHALL BE RUN CONCEALED. MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT ROUTING MUST BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER.
E. EMT CONNECTORS AND COUPLINGS SHALL BE OF THE ALL-STEEL, SET SCREW (INTERIOR) OR COMPRESSION (EXTERIOR) TYPE. DIE-CAST FITTINGS ARE NOT PERMITTED.
F. EXPOSED AND CONCEALED CIRCUITRY (WHETHER CONDUIT OR CABLING) SHALL BE RUN TIGHT TO CEILING IN A NEAT, WORKMAN-LIKE MANNER. ALL RUNS SHALL BE PARALLEL OR PERPENDICULAR TO THE BUILDING WALLS.
G. ALL CIRCUITRY RUNS INDICATED ARE DIAGRAMMATIC. THE CONTRACTOR SHALL DETERMINE IN THE FIELD THE MOST SUITABLE ROUTE.
H. OUTLET BOXES SHALL BE A MINIMUM OF 4" SQUARE WITH THE APPROPRIATE PLASTER RING OR TILE COVER (IF CONCEALED) SURFACE BOXES SHALL HAVE STEEL RAISED SQUARE, NON METALLIC BOXES AND FITTINGS ARE NOT ACCEPTABLE IN INTERIOR LOCATIONS.
I. COORDINATE SIZES OF RACEWAYS, BOXES, AND EQUIPMENT ENCLOSURES INSTALLED UNDER OTHER SECTIONS WITH THE ACTUAL CONDUCTORS TO BE INSTALLED...
J. SECURE AND SUPPORT BOXES AND CONDUIT IN ACCORDANCE WITH NEC USING LISTED SUPPORTS AND METHODS APPROVED BY THE ENGINEER AND AUTHORITY HAVING JURISDICTION.
K. PROVIDE INDEPENDENT SUPPORT FROM BUILDING STRUCTURE. DO NOT PROVIDE SUPPORT FROM OTHER TRADE INSTALLATION OR SUSPENDED CEILING SUPPORT SYSTEMS...
L. USE CLAMP BACK SPACERS WITH CONDUIT STRAPS FOR DAMP, WET, OR WASH DOWN LOCATIONS.
M. USE METAL CHANNEL (STRU) WITH ACCESSORY CONDUIT CLAMPS TO SUPPORT MULTIPLE PARALLEL SURFACE-MOUNTED CONDUITS.
N. PROVIDE ALL CONDUIT CONNECTIONS TO BOXES AND PANELS IN SUCH MANNER TO PROTECT WIRE ROUTING IN AND OUT.
O. DO NOT PENETRATE, NOTCH, OR CUT STRUCTURAL MEMBERS, INCLUDING FOOTINGS AND GRADE BEAMS...
P. MAKE PENETRATIONS PERPENDICULAR TO SURFACES AND PROVIDE SLEEVES AS INDICATED OR AS REQUIRED TO FACILITATE INSTALLATION.
Q. PROVIDE SLEEVES FOR PENETRATIONS AS INDICATED OR AS REQUIRED TO FACILITATE INSTALLATION. SET SLEEVES FLUSH WITH EXPOSED SURFACES UNLESS INDICATED OR REQUIRED.
R. SEAL INTERIOR OF CONDUITS ENTERING THE BUILDING FROM UNDERGROUND AT FIRST ACCESSIBLE POINT TO PREVENT ENTRY OF MOISTURE AND GASES.
S. WHERE CONDUITS PENETRATE WATERPROOF MEMBRANE, SEAL AS REQUIRED AS REQUIRED TO MAINTAIN INTEGRITY OF MEMBRANE.
T. MAKE PENETRATIONS FOR ROOF MOUNTED EQUIPMENT WITHIN ASSOCIATED EQUIPMENT OPENINGS AND CURBS WHENEVER POSSIBLE...
U. PROVIDE ESCUTCHEON PLATES FOR CONDUIT OR REVIEW METHOD OF SEALING WITH ARCHITECT/ENGINEER FOR SEALING OF CONDUIT PENETRATIONS IN EXPOSED LOCATIONS.
V. INSTALL FIRE STOPPING TO PRESERVE FIRE RESISTANT RATINGS OF PARTITIONS AND OTHER ELEMENTS AS DIRECTED IN DRAWINGS OR ELSEWHERE IN THESE SPECIFICATIONS.
W. WHERE CONDUITS ARE SUBJECT TO MOVEMENT BY EXPANSION, CONTRACTION, OR DEFLECTION BY STRUCTURE, OR MOVEMENT OF EARTH DUE TO SETTLEMENT OR TEMPERATURE CHANGE, PROVIDE APPROPRIATE RATED FITTINGS.
X. PROVIDE APPROVED SEALING FITTING OR COMPOUND WHERE CONDUITS PASS THROUGH AREAS OF SUBSTANTIAL TEMPERATURE DIFFERENTIAL.
Y. PROVIDE PULL STRING IN ALL EMPTY CONDUITS WHERE CONDUCTORS OR CABLES ARE TO BE INSTALLED BY OTHERS.
Z. IMMEDIATELY AFTER INSTALLATION OF CONDUIT, USE SUITABLE MANUFACTURED PLUGS TO PROVIDE PROTECTION FROM ENTRY OF MOISTURE AND FOREIGN MATERIAL AND DO NOT REMOVE UNTIL READY FOR INSTALLATION.

PART 3 WIRE AND CABLE

- 3.01 GENERAL REQUIREMENTS
A. UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE COPPER, MINIMUM #12 (EXCEPT CONTROL CONDUCTORS AND LIGHTING TAPS AS PERMITTED BY NEC)...
B. MINIMUM SIZE SHALL BE #12. WIRE AND CONDUIT METHODS OR MC CABLE IS REQUIRED OTHERWISE...
1. 20A, 120V CIRCUITS LONGER THAN 80 FEET: #10 AWG. FOR VOLTAGE DROP.
2. 20A, 120V CIRCUITS LONGER THAN 150 FEET: #8 AWG. FOR VOLTAGE DROP.
3. CONTROL CIRCUITS SHALL BE #14 MINIMUM.
4. IN ADDITION TO THE ABOVE CONDITIONS ABOVE ALL BRANCH CIRCUIT WIRES SHALL BE INSTALLED TO ACHIEVE LESS THAN 3% VOLTAGE DROP FOR ENTIRE CIRCUIT LENGTH...
C. NMC CABLE IS NOT PERMITTED WITHIN THIS BUILDING.
D. PROVIDE METAL-CLAD CABLE AS PERMITTED BY NFPA 70 AND INDICATED ON DRAWINGS.
1. USE LISTED FITTINGS ONLY TO TERMINATE CABLES. DO NOT USE DIRECT BEARING SETSCREW TYPE FITTINGS FOR CABLES WITH ALUMINUM ARMOR.
2. CABLE IS NOT PERMITTED TO BE INSTALLED EXPOSED UNLESS APPROVED BY ENGINEER.
3. CUT CABLE ARMOR ONLY USING SPECIALIZED TOOLS NOT USE HACKSAW OR WIRE CUTTERS TO CUT ARMOR.
E. RUN MULTIPLE HOMERUNS TO ALTERNATELY BUSED AND NUMBERED PANELBOARD CIRCUITS (I.E., 1,3,5).
F. INSULATION TO LIGHT FIXTURES OR SPECIAL EQUIPMENT SHALL BE AS REQUIRED BY NAMEPLATES OR TO SUITE THE CONDITION...
G. CONDUCTORS SHALL BEAR READABLE MARKINGS ALONG THE ENTIRE LENGTH.
H. CONDUCTORS #6 AWG OR SMALLER SHALL BEAR FACTORY COLOR INSULATION COMPLYING WITH SYSTEM PHASING ALONG THE ENTIRE LENGTH.
I. JOINTS FOR #10 AWG OR SMALLER SHALL BE MADE WITH APPROVED TWIST-ON TYPE CONNECTORS AND INSULATED WITH SCOTCH #33 ELECTRICAL TAPE...
J. WIRING WITHIN PANELBOARDS, JUNCTION BOXES AND OUTLET BOXES SHALL BE NEATLY SQUARED AND BUNCHED TOGETHER...
K. PROVIDE CIRCUIT NUMBER ON EACH CONDUCTOR WITHIN PANELBOARDS, JUNCTION BOXES, AND OUTLET BOXES.
L. PROVIDE PANEL NAME AND CIRCUIT NUMBERS ON ALL JUNCTION BOX AND DEVICE COVER PLATES (NON VISIBLE SIDE) INDICATING CIRCUIT CONTAINED WITHIN BOX WITH PERMANENT MARKER.
M. NO MORE THAN THREE CIRCUITS SHALL BE ALLOWED IN ANY ONE CONDUIT. NO CONDUIT SHALL CONTAIN ANY SHARED NEUTRAL CONDUCTORS OR MORE THAN ONE CONDUCTOR OF THE SAME PHASE.
N. ACCEPTABLE MANUFACTURERS: CERRO WIRE, ENCORE WIRE, GENERAL CABLE, SERVICE WIRE, SOUTH WIRE, OR APPROVED EQUAL.
O. WIRING CONNECTORS: PROVIDE CONNECTORS APPROPRIATE FOR THE APPLICATION, LISTED AND SUITABLE FOR USE WITH THE CONDUCTORS TO BE CONNECTED.
P. FOR BONDING AND GROUNDING PROVIDE CONNECTORS LISTED FOR CONNECTION SITUATION AND LOCATION USED.
Q. WIRING CONNECTORS FOR TERMINATION:
1. PROVIDE TERMINAL LUGS FOR CONNECTING CONDUCTORS TO EQUIPMENT FURNISHED WITH TERMINATIONS DESIGNED FOR TERMINAL LUGS.
2. PROVIDE COMPRESSION ADAPTERS FOR CONNECTING CONDUCTORS TO EQUIPMENT FURNISHED WITH MECHANICAL LUGS ONLY WHEN ONLY COMPRESSION CONNECTORS ARE SPECIFIED.
3. WHERE OVER-SIZED CONDUCTORS ARE LARGER THAN THE EQUIPMENT TERMINATIONS CAN ACCOMMODATE...
4. STRANDED CONDUCTORS SIZE 10 AND SMALLER: USE CRIMPED NYLON INSULATED TERMINALS FOR CONNECTIONS TO TERMINAL SCREWS.
R. TWIST-ON INSULATED SPRING CONNECTORS: SHALL BE RATED 105 FOR STANDARD APPLICATIONS AND 150 FOR HIGH TEMPERATURE APPLICATIONS...
S. MECHANICAL CONNECTORS: PROVIDE BOLTED OR SET-SCREW TYPE.
1. MANUFACTURERS: BURNDY, ILSCO, OR THOMAS AND BETTS OR APPROVED EQUAL.
2. COMPRESSION CONNECTORS: PROVIDE CIRCUMFERENTIAL TYPE CRIMP CONFIGURATION.
T. ACCESSORIES:
1. ELECTRICAL TAPE: 3M OR PLYMOUTH OR APPROVED EQUAL.
2. VINYL COLOR CODING TAPE: INTEGRALLY COLORED TO MATCH COLOR CODE INDICATED...
3. MINIMUM THICKNESS OF 7 MIL. RESISTANT TO ABRASION, CORROSION, AND SUNLIGHT FOR CONTINUOUS TEMPERATURE ENVIRONMENT UP TO 105 OR APPROVED EQUAL.

PART 4 WIRING DEVICES/DATA/COMMUNICATIONS OUTLETS

- 4.01 GENERAL REQUIREMENTS
A. THE LOCATION OF ALL WIRING DEVICES AND TELEPHONE /DATA OUTLETS SHALL BE VERIFIED BEFORE INSTALLATION WITH THE ARCHITECT/OWNER...
B. WHERE TWO OR MORE DEVICES ARE SHOWN TOGETHER ON THE PLANS, A MULTI-GANG BOX AND PLATE SHALL BE USED...
C. ALL OUTLETS SHOWN ON A WALL BACK TO BACK SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY.
D. ALL MOUNTED WIRING DEVICES SHALL BE INDICATED BY HUBBELL CATALOG NUMBERS WITH EQUALS IN LEVITON, LEGRAND ACCEPTABLE...
E. WALL AND CEILING MOUNTED OCCUPANCY/VACANCY SENSORS ARE INDICATED ON DRAWING SCHEDULES.
F. DEVICE PLATES SHALL BE SMOOTH PLASTIC (NYLON) WITH COLOR MATCHING DEVICE INSTALLED.
G. WEATHERPROOF COVERS FOR WET LOCATIONS, GASKETED, CAST ALUMINUM OR THERMOPLASTIC, WITH HINGED LOCKABLE COVERS AND CORROSION RESISTANT SCREWS...
H. COORDINATE LIGHT SWITCHES SHOWN ON DRAWINGS AND FIELD VERIFY WITH FINAL DOOR SWINGS...
1. VERIFY OUTLET BOXES ARE INSTALLED IN PROPER LOCATIONS AND AT PROPER MOUNTING HEIGHTS...
2. WHERE COVER PLATES FOR ALL DEVICES CONFLICT WITH CASEWORK OR MILLWORK...
3. VERIFY FINAL SURFACE FINISHES ARE COMPLETE, INCLUDING PAINTING.
4. INSTALL WIRING DEVICES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
5. INSTALL PERMANENT BARRIER BETWEEN GANGED WIRING DEVICE WHEN THE VOLTAGE BETWEEN ADJACENT DEVICES EXCEEDS 300V.
6. CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR CLOCKWISE 3/4 TURN AROUND SCREW TERMINAL AND TIGHTENING TO PROPER TORQUE...
7. PROVIDE GFCI RECEPTACLES WITH INTEGRAL GFCI PROTECTION AT EACH LOCATION INDICATED...
8. INSTALL ALL DEVICES AND PLATES PLUMB AND LEVEL AND MOUNTING YOKE RIGIDLY IN PLACE...
9. INSTALL VERTICAL MOUNTED RECEPTACLES WITH GROUNDING POLE ON TOP AND HORIZONTAL MOUNTED RECEPTACLES WITH GROUNDING ON THE LEFT.
10. INSTALL BLANK WALL PLATES ON JUNCTION BOXES WITH NO WIRING DEVICES INSTALLED OR DESIGNATED FOR FUTURE.
11. ADJUST PRESETS FOR WALL DIMMERS ACCORDING TO MANUFACTURER INSTRUCTIONS AS DIRECTED BY OWNER.
5.01 GENERAL REQUIREMENTS
A. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER ELECTRICAL INSTALLATIONS.
B. ALL ASSEMBLIES SHALL BE UL APPROVED, MANUFACTURER RECOMMENDED, OR APPROVED BY AHJ.
6.01 GENERAL REQUIREMENTS
A. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING OF FEEDERS AND BRANCH CIRCUIT CONDUCTORS AS FOLLOWS:
208/120 VOLTS PHASE
BLACK A
RED B
BLUE C
WHITE NEUTRAL
GREEN GROUND
PURPLE TRAVELERS
B. FOR PANELBOARDS: PROVIDE FRAMED, TYPED CIRCUIT SCHEDULES WITH EXPLICIT DESCRIPTIONS AND IDENTIFICATION OF ITEMS CONTROLLED BY EACH INDIVIDUAL BREAKER.
C. IDENTIFICATION REQUIREMENTS:
1. USE IDENTIFYING MARKER TAPES TO IDENTIFY EACH PIECE OF ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT AND ASSOCIATED SECTIONS, COMPARTMENTS, AND COMPONENTS.
2. MOTOR CONTROL STARTERS:
1. IDENTIFY AMPERE RATING.
2. IDENTIFY VOLTAGE AND PHASE.
3. IDENTIFY POWER SOURCE AND CIRCUIT NUMBER, INCLUDING LOCATION.
A. PANELBOARDS:
1. IDENTIFY VOLTAGE AND PHASE.
2. IDENTIFY AMPERE RATING.
3. IDENTIFY POWER SOURCE AND CIRCUIT NUMBER, INCLUDE LOCATION.
4. USE TYPE WRITTEN CIRCUIT DIRECTORY TO IDENTIFY LOAD(S) SERVED FOR PANELBOARDS WITH A DOOR...
5. PROVIDE ADDITIONAL IDENTIFICATION ON ALL PANELS SERVED BY GENERATOR STAND-BY POWER.
a. WIRING DEVICES:
1. IDENTIFY VOLTAGE AND PHASE.
2. IDENTIFY POWER SOURCE AND CIRCUIT NUMBER.
3. USE PERMANENT IDENTIFICATION LABELS ON WIRING DEVICE PLATES VISIBLE ON DEVICE PLATES OR INSIDE PLATES AS DIRECTED BY AHJ AND OWNER.
4. PROVIDE ADDITIONAL IDENTIFICATION ON ALL DEVICES SERVED FROM GENERATOR STAND-BY POWER.
7.01 GENERAL REQUIREMENTS
A. GROUND ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH THE MINIMUM NEC REQUIREMENTS OR AS INDICATED ON DRAWING.

- 3. VINYL INSULATING ELECTRICAL TAPE: COMPLYING WITH ASTM D3005 AND LISTED AS COMPLYING WITH UL510 MINIMUM...
4. RUBBER SPLICING ELECTRICAL TAPE: ETHYLENE PROPYLENE RUBBER (EPR) TAPE...
5. ELECTRICAL FILLER TAPE: RUBBER-BASED INSULATING MOLDABLE PUTTY...
6. MOISTURE SEALING ELECTRICAL TAPE: INSULATING MASTIC COMPOUND LAMINATED TO FLEXIBLE...
U. HEAT SHRINK TUBING: HEAVY WALL, SPLT RESISTANT WITH FACTORY-APPLIED ADHESIVE...
V. OXIDE INHIBITING COMPOUND: LISTED, SUITABLE FOR USE WITH THE CONDUCTORS OR CABLES TO BE INSTALLED.
W. WIRE PULLING LUBRICANT: LISTED, SUITABLE FOR USE WITH THE CONDUCTORS OR CABLES TO BE INSTALLED...
X. CABLE TIES: MATERIAL AND TENSILE STRENGTH RATING SUITABLE FOR APPLICATION AND SUNLIGHT RESISTANT...
Y. INSTALLATION:
1. CIRCUITING REQUIREMENTS: MAINTAIN SEPARATION OF CLASS 1, CLASS 2, AND CLASS 3 REMOTE-CONTROL, SIGNALING, AND POWER-LIMITED CIRCUITS...
2. CIRCUITING ADJUSTMENTS: UNLESS OTHERWISE NOTED, WHEN BRANCH CIRCUITS ARE INDICATED AS SEPARATE...
3. PERFORM WORK IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
4. INSTALLATION IN RACEWAY:
a. TAPE ENDS OF CONDUCTORS AND CABLES TO PREVENT INFILTRATION OF MOISTURE AND OTHER CONTAMINANTS.
b. PULL ALL CONDUITS AND CABLES TO THE POINT OF TERMINATION AT LEAST EQUIVALENT TO UNDRAGED CONDUCTORS...
5. PARALLEL CONDUCTORS SHALL BE INSTALLED PER NEC DIRECTION.
6. SECURE AND SUPPORT CONDUCTORS AND CABLES IN ACCORDANCE WITH NFPA 70 USING SUITABLE SUPPORTS AND METHODS APPROVED BY AHJ...
7. INSTALL CONDUITS WITH A MINIMUM OF 12 INCHES OF SLACK AT EACH OUTLET.
8. NEATLY TRAIN AND BUNDLE CONDUCTORS INSIDE BOXES, WIREWAYS, PANELBOARDS, AND OTHER EQUIPMENT ENCLOSURES...
9. MAKE WIRING CONNECTIONS USING SPECIFIED WIRING CONNECTORS.
10. MAKE SPLICES AND TAPS ONLY IN ACCESSIBLE BOXES...
11. DO NOT REMOVE CONDUCTOR STRANDS TO FACILITATE INSERTION INTO CONNECTORS.
12. CLEAN CONTACT SURFACES ON CONDUCTORS AND CONNECTORS TO SUITABLE REMOVE CORROSION, OXIDES, AND OTHER CONTAMINANTS...
13. MECHANICAL CONNECTORS: SECURE CONNECTIONS ACCORDING TO MANUFACTURER'S RECOMMENDED TORQUE SETTINGS...
14. COMPRESSION CONNECTORS: SECURE CONNECTIONS USING MANUFACTURER'S RECOMMENDED TOOLS AND DIES...
15. INSULATE SPLICES AND TAPS ARE MADE WITH UNINSULATED CONNECTORS USING METHODS SUITABLE FOR THE APPLICATION...
16. SECURE AND SUPPORT CONDUCTORS AND CABLES IN ACCORDANCE WITH NFPA 70 USING SUITABLE SUPPORTS AND METHODS APPROVED BY AHJ...
17. DAMP LOCATIONS: USE INSULATING COVERS SPECIFICALLY DESIGNED FOR THE CONNECTORS...
18. WET LOCATIONS: USE HEAT SHRINK TUBING.
19. INSULATE ENDS OF SPARE USING VINYL INSULATING ELECTRICAL TAPE...
20. FIELD-APPLIED COLOR CODING: WHERE VINYL COLOR CODING ELECTRICAL TAPE IS USED IN LIEU OF INTEGRALLY COLORED INSULATION...
21. UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT AND DEVICES...
Z. DISCONNECT SURGE PROTECTIVE DEVICES (SPD) PRIOR TO PERFORMING ANY HIGH POTENTIAL TESTING WITH SPD'S DAMAGED OR PERFORMING ANY HIGH POTENTIAL TESTING WITH SPD'S CONNECTED...

PART 5 SUPPORTING DEVICES

- 5.01 GENERAL REQUIREMENTS
A. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER ELECTRICAL INSTALLATIONS.
B. ALL ASSEMBLIES SHALL BE UL APPROVED, MANUFACTURER RECOMMENDED, OR APPROVED BY AHJ.
6.01 GENERAL REQUIREMENTS
A. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING OF FEEDERS AND BRANCH CIRCUIT CONDUCTORS AS FOLLOWS:
208/120 VOLTS PHASE
BLACK A
RED B
BLUE C
WHITE NEUTRAL
GREEN GROUND
PURPLE TRAVELERS
B. FOR PANELBOARDS: PROVIDE FRAMED, TYPED CIRCUIT SCHEDULES WITH EXPLICIT DESCRIPTIONS AND IDENTIFICATION OF ITEMS CONTROLLED BY EACH INDIVIDUAL BREAKER.
C. IDENTIFICATION REQUIREMENTS:
1. USE IDENTIFYING MARKER TAPES TO IDENTIFY EACH PIECE OF ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT AND ASSOCIATED SECTIONS, COMPARTMENTS, AND COMPONENTS.
2. MOTOR CONTROL STARTERS:
1. IDENTIFY AMPERE RATING.
2. IDENTIFY VOLTAGE AND PHASE.
3. IDENTIFY POWER SOURCE AND CIRCUIT NUMBER, INCLUDING LOCATION.
A. PANELBOARDS:
1. IDENTIFY VOLTAGE AND PHASE.
2. IDENTIFY AMPERE RATING.
3. IDENTIFY POWER SOURCE AND CIRCUIT NUMBER, INCLUDE LOCATION.
4. USE TYPE WRITTEN CIRCUIT DIRECTORY TO IDENTIFY LOAD(S) SERVED FOR PANELBOARDS WITH A DOOR...
5. PROVIDE ADDITIONAL IDENTIFICATION ON ALL PANELS SERVED BY GENERATOR STAND-BY POWER.
a. WIRING DEVICES:
1. IDENTIFY VOLTAGE AND PHASE.
2. IDENTIFY POWER SOURCE AND CIRCUIT NUMBER.
3. USE PERMANENT IDENTIFICATION LABELS ON WIRING DEVICE PLATES VISIBLE ON DEVICE PLATES OR INSIDE PLATES AS DIRECTED BY AHJ AND OWNER.
4. PROVIDE ADDITIONAL IDENTIFICATION ON ALL DEVICES SERVED FROM GENERATOR STAND-BY POWER.
7.01 GENERAL REQUIREMENTS
A. GROUND ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH THE MINIMUM NEC REQUIREMENTS OR AS INDICATED ON DRAWING.

- B. CONNECTORS APPROPRIATE AND SUITABLE FOR THE CONDUCTORS AND ITEMS TO BE CONNECTED...
C. ALL GROUNDING CONDUCTORS SHALL BE INSTALLED AS TO PERMIT SHORTEST PATH FROM EQUIPMENT TO GROUND...
D. ALL CONTACT SURFACES SHALL BE THOROUGHLY CLEANED BEFORE CONNECTIONS ARE MADE...
E. EXOTHERMIC GROUNDING CONNECTIONS SHALL BE INSTALLED WITH LISTED WELDING 'SHOTS'...
F. ALL CIRCUITS SHALL CONTAIN AN INSULATED GROUNDING CONDUCTOR IN BRANCH CIRCUIT AND FEEDER CONDUITS...
G. ALL GROUND RODS SHALL BE 5/8" X 10' CU. CLAD, LACE AT 10' SPACING...

PART 8 PANELBOARDS

- 8.01 GENERAL REQUIREMENTS
A. PANELBOARD CIRCUITING SHALL MATCH THE DRAWINGS...
B. ALL BREAKERS IN PROJECT SHALL BE NEW AND MATCH PANEL MANUFACTURER AND AIC RATING.
C. ALL PANELBOARDS AND DISTRIBUTION BOARDS SHALL HAVE ALUMINUM BUSSING...
D. ALL PANELBOARDS AND DISTRIBUTION BOARDS AND OVER CURRENT DEVICES SHALL BE FULLY RATED...
E. PROVIDE TYPE WRITTEN LEGENDS WITHIN OR ON DOORS OF ALL DISTRIBUTION EQUIPMENT PANELS...
F. WIRING WITHIN ALL DISTRIBUTION EQUIPMENT SHALL BE IN A NEAT AND WORKMANSHIP MANNER...
G. ALL GROUND RODS SHALL BE 5/8" X 10' CU. CLAD, LACE AT 10' SPACING...

PART 9 SAFETY AND SERVICE DISCONNECT SWITCHES

- 9.01 GENERAL REQUIREMENTS
A. ALL SAFETY AND SERVICE DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE RATED.
B. FUSES < 600 AMPS SHALL BE (BUSSMAN) RFI OR APPROVED EQUAL.

PART 10 LIGHTING

- 10.01 GENERAL REQUIREMENTS
A. ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED WITH ALL ACCESSORIES REQUIRED TO PROVIDE A COMPLETE INSTALLATION...
B. FUSES < 600 AMPS SHALL BE (BUSSMAN) RFI OR APPROVED EQUAL.

PART 11 FIRESTOPPING

- 11.01 GENERAL REQUIREMENTS
A. FIRESTOPPING OF JOINTS AND PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS AND CEILING ASSEMBLIES...
B. REFERENCE STANDARDS
1. ASTM E2174 - STANDARD PRACTICE FOR ON-SITE INSPECTION OF INSTALLED FIRESTOP SYSTEMS...
2. ASTM G21 - STANDARD PRACTICE FOR DETERMINING RESISTANCE OF SYNTHETIC POLYMERIC MATERIALS TO FUNGI...
C. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS...
D. APPROVAL FROM AUTHORITY HAVING JURISDICTION INDICATED APPROVAL OF MATERIALS USED.
E. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED...
F. MANUFACTURERS
1. FIRESTOPPING MANUFACTURERS:
a. 3M FIRE PROTECTION PRODUCTS...
b. HLT, INC...
c. HOLDRITE...
d. MANUFACTURER AS APPROVED BY ARCHITECT/ENGINEER.
G. MATERIALS
1. USE FIRESTOPPING MATERIALS: ANY MATERIALS MEETING REQUIREMENTS.
2. MOLD AND MILDEW RESISTANCE...
3. PRIMERS, SLEEVES, FORMS, INSULATION, PACKING, STUFFING, AND ACCESSORIES...
4. FIRE RATINGS: REFER TO DRAWINGS FOR REQUIRED SYSTEMS AND RATINGS.
H. FIRESTOPPING SYSTEMS
1. INSTALL MATERIALS IN A MANNER DESCRIBED IN FIRE TEST REPORT...
2. DO NOT COVER INSTALLED FIRESTOPPING UNTIL INSPECTED BY AUTHORITIES...
3. DO NOT COVER INSTALLED FIRESTOPPING UNTIL INSPECTED BY AUTHORITIES...
4. CLEANING: CLEAN ADJACENT SURFACES OF FIRESTOPPING MATERIALS.

PART 12 EQUIPMENT CONNECTION

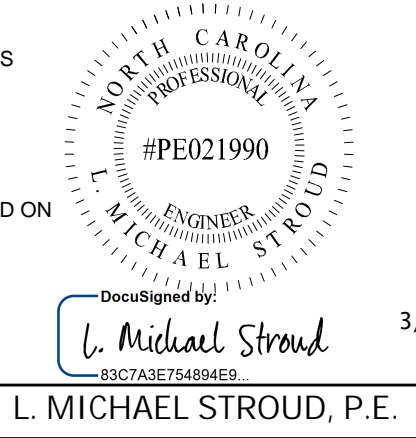
- 12.01 GENERAL REQUIREMENTS
A. ALL EQUIPMENT PROVIDED ON THIS PROJECT SHALL HAVE MANUFACTURER TERMINATIONS RATED AT 75°C.

PART 13 RECORD DRAWINGS

- 13.01 GENERAL REQUIREMENTS
A. DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF ELECTRICAL CONTRACT DRAWINGS...
B. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PREPARE AN OPERATION AND MAINTENANCE MANUAL...

Table with 4 columns: BY, NO., DATE, DESCRIPTION. Header: REVISIONS

ELECTRICAL SPECIFICATIONS
CARTERET COMMUNITY COLLEGE
WAYNE WEST OFFICE RENOVATIONS
MOREHEAD CITY CARTERET COUNTY NORTH CAROLINA
OWNER: CARTERET COMMUNITY COLLEGE
ADDRESS: 3713 ARENDELL ST MOREHEAD CITY, NC 28557
PHONE:
DESIGNED: WGB DATE: 02/06/2024
DRAWN: WGB SCALE: AS NOTED
APPROVED: LMS SHEET E2 OF 5
STROUD ENGINEERING, P.A.
422 HIGHWAY 24 MOREHEAD CITY, NC 28557 (252) 247-7479 LICENSE NO.C-0647

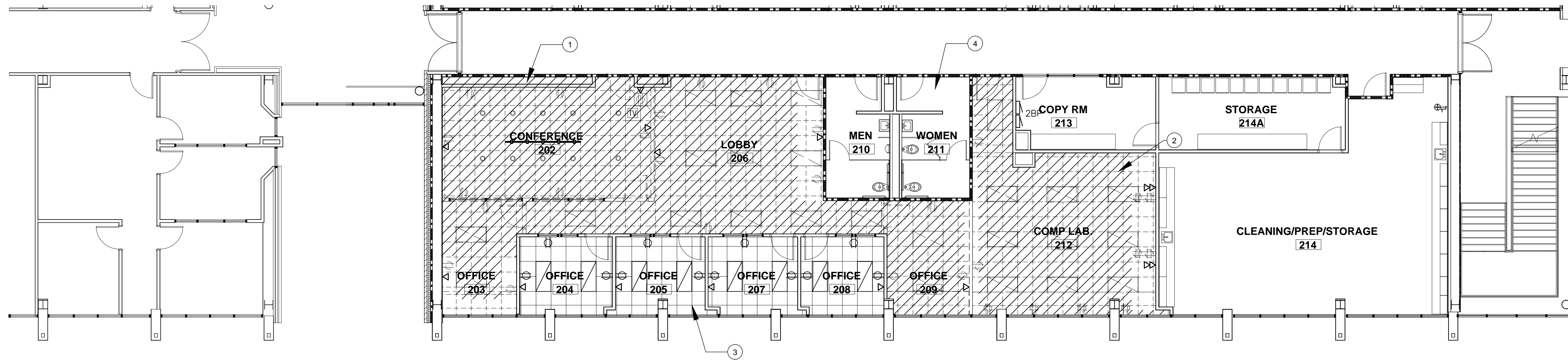


ELECTRICAL DEMOLITION PLAN NOTES

1. REMOVE ALL EXISTING RECEPTACLES, DATA OUTLETS, AND WIRING LOCATED WITHIN THIS SHADED REGION. RELOCATE ALL EXISTING LIGHT FIXTURES IN THIS SHADED REGION AS SHOWN ON SHEET E5, THESE EXISTING LIGHTS ARE DENOTED "E1" IN THE LUMINAIRE SCHEDULE. SEE SHEET E6 FOR FIRE ALARM DEMOLITION PLAN.
2. REMOVE ALL EXISTING LIGHTING, RECEPTACLES, AND WIRING LOCATED WITHIN THIS SHADED AREA. THESE LIGHTING FIXTURES ARE NOT TO BE REUSED.
3. ALL EXISTING LIGHTING, RECEPTACLES, WIRING, AND DATA OUTLETS LOCATED WITHIN THE NON-SHADED AREA OF WORK ARE EXISTING TO REMAIN.
4. ALL EXISTING RECEPTACLES, LIGHTING, AND WIRING LOCATED WITHIN THE BATHROOM ARE EXISTING TO REMAIN.

RECEPTACLE SCHEDULE					
CALLOUT	SYMBOL	VOLTS	NOTE 1	NOTE 2	NOTE 3
DUPLEX		120V 1P 2W	PROVIDE HUBBELL "HBL5362" OR APPROVED EQUAL, MATCH COLOR TO EXISTING RECEPTACLES	PROVIDE STAINLESS STEEL PLATES TO MATCH EXISTING PLATES	U.O.N. MOUNT AT 18" AFF TO CENTER

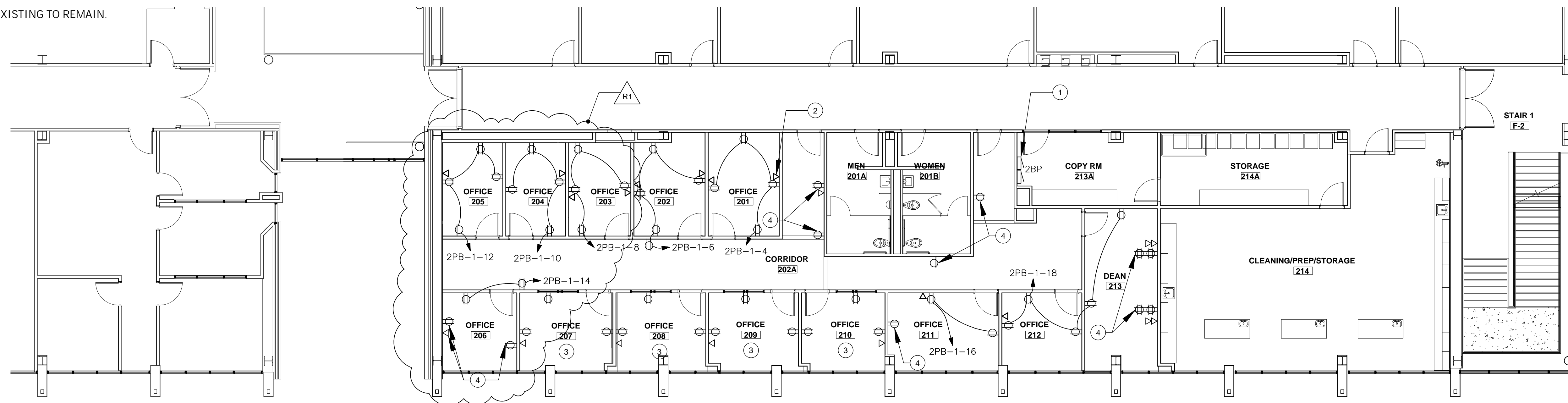
COMMUNICATIONS SCHEDULE			
CALLOUT	SYMBOL	NOTE 1	NOTE 2
DATA OUTLET		PROVIDE 4X4 DEEP BOX WITH: (2) CAT 5e TO NEAREST DATA PATCH PANEL, (1) CAT 5e CABLE TO NEAREST TELEPHONE PATCH PANEL, (1) COAX CABLE TO NEAREST CATV TERMINAL BOARD	U.O.N. MOUNT AT 18" AFF TO CENTER



ELECTRICAL POWER PLAN NOTES

1. PANEL 2PB IS EXISTING TO REMAIN, SEE SHEET E1 FOR PANEL SCHEDULES OF EXISTING BREAKERS TO REMAIN AND BREAKERS THAT WILL CHANGE.
2. NEW DATA OUTLETS TO REPLICATE EXISTING DATA OUTLET AND CABLING CONFIGURATIONS. ALL OFFICE DATA OUTLETS SHALL HAVE (2) DATA OUTLETS, (1) VOICE/TELEPHONE OUTLET, AND (1) CATV OUTLET. SEE COMMUNICATIONS SCHEDULE ON THIS SHEET FOR MORE INFORMATION.
3. RECEPTACLE AND DATA OUTLETS IN UNALTERED OFFICES ARE EXISTING TO REMAIN
4. EXISTING TO REMAIN.

1
E3
ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2
E3
POWER PLAN
SCALE: 1/8" = 1'-0"
GRAPHIC SCALE: 1/8" = 1'-0"

REVISIONS			
BY	NO.	DATE	DESCRIPTION
WGB	1	3/27/24	ADDENDUM 1

ELECTRICAL DEMOLITION AND POWER PLAN

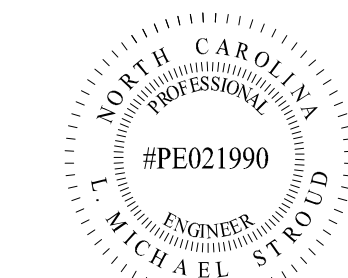
**CARTERET COMMUNITY COLLEGE
WAYNE WEST OFFICE RENOVATIONS**

MOREHEAD CITY CARTERET COUNTY NORTH CAROLINA

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PHONE:

DESIGNED: WGB	DATE: 02/06/2024
DRAWN: WGB	SCALE: AS NOTED
APPROVED: LMS	SHEET E3 OF 5

STROUD ENGINEERING, P.A.
422 HIGHWAY 24
MOREHEAD CITY, NC 28557
(252) 247-1479 LICENSE NO. C-0647



Designed by
L. Michael Stroud
3/27/2024
L. MICHAEL STROUD, P.E.

ELECTRICAL GENERAL NOTES

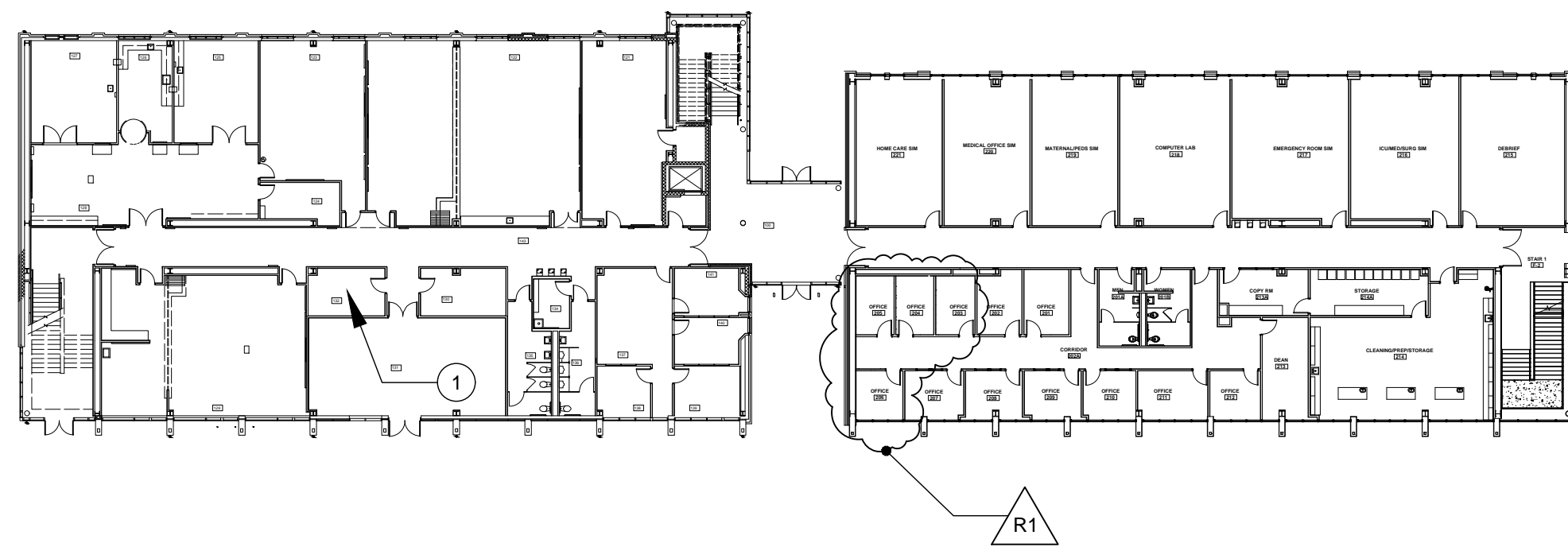
- ALL EMERGENCY/EXIT LIGHTING FIXTURES SHALL BE CIRCUITED TO UNSWITCHED CIRCUIT FOR LIGHTING IN AREA BEING SERVED. PROVIDE INSTALLATION AND AIMING FOR ALL EMERGENCY LIGHTING TO PROVIDE MAXIMUM LIGHTING COVERAGE.

ELECTRICAL PLAN NOTES

- PANEL 2L IS EXISTING TO REMAIN IN ELECTRICAL ROOM 231 ON OPPOSITE SIDE OF BUILDING. SEE SHEET E1 FOR PANEL SCHEDULES OF EXISTING BREAKERS TO REMAIN AND BREAKERS THAT WILL CHANGE.

LUMINAIRE SCHEDULE

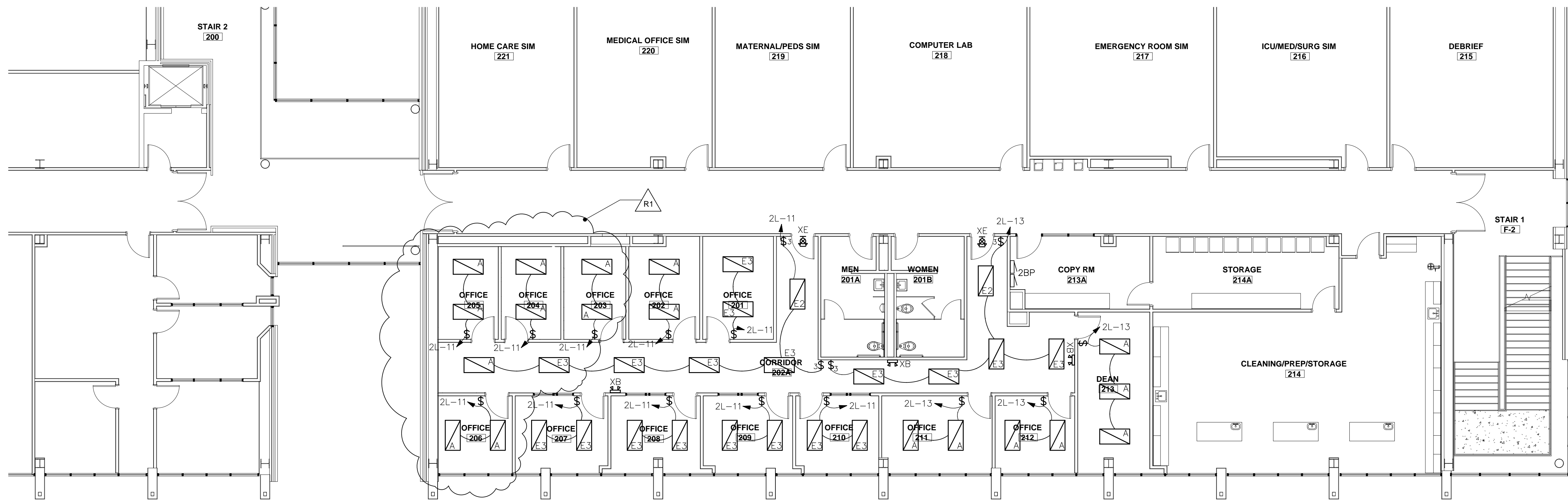
CALLOUT	SYMBOL	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	COLOR	VOLTS	NOTE 1	NOTE 2	NOTE 3
A		LIT LED, LENSED TROFFER 2' X 4' LED WITH A12 PATTERN ACRYLIC PRISMED LENS	CEILING	COLUMBIA LIGHTING - LJT24-35MLG-FSA12-EU	38.4	3500K	277V 1P 2W	DIMENSION OF UNIT: 49" L, 25" W, 3.75" H		
E2		EXISTING 2'X4' FLOURESCENT 2-LAMP LUMINAIRE TO BE REUSED	CEILING		30		277V 1P 2W	PROVIDE GREENCREATIVE - CCT SELECT T8 UEB LED TUBE, SELECTABLE CCT, INTEGRAL LED DRIVER, 60,000 HOUR RATED LIFETIME, 4' LENGTH	PROVIDE REWIRING OF EXISTING 2-LAMP FLOURESCENT TROFFER, ALL BROKEN SOCKETS ARE TO BE REPLACED BY CONTRACTOR, PROVIDE DISPOSAL OF ALL EXISTING LAMPS AS PER ENVIRONMENTAL REQUIREMENTS	PRIOR TO STARTING PROJECT, VERIFY AND REPORT ALL BROKEN LENSES TO OWNER, CONTRACTOR SHALL REPLACE ALL BROKEN LENSES, AFTER COMPLETION OF REWIRING AND INSTALLATION, CLEAN ALL EXISTING TROFFERS AND LENSES
E3		EXISTING 2'X4' FLOURESCENT 3-LAMP LUMINAIRE TO BE REUSED	CEILING		45		277V 1P 2W	PROVIDE GREENCREATIVE - CCT SELECT T8 UEB LED TUBE, SELECTABLE CCT, INTEGRAL LED DRIVER, 60,000 HOUR RATED LIFETIME, 4' LENGTH	PROVIDE REWIRING OF EXISTING 3-LAMP FLOURESCENT TROFFER, ALL BROKEN SOCKETS ARE TO BE REPLACED BY CONTRACTOR, PROVIDE DISPOSAL OF ALL EXISTING LAMPS AS PER ENVIRONMENTAL REQUIREMENTS	PRIOR TO STARTING PROJECT, VERIFY AND REPORT ALL BROKEN LENSES TO OWNER, CONTRACTOR SHALL REPLACE ALL BROKEN LENSES, AFTER COMPLETION OF REWIRING AND INSTALLATION, CLEAN ALL EXISTING TROFFERS AND LENSES
XB		LED COMPACT EMERGENCY LIGHT UNIT, FULLY ADJUSTABLE LED ACRYLIC LENSED LIGHTS, WHITE THERMOPLASTIC, NiMH BATTERY, UL924, DAMP LOCATION RATED	WALL	COMPASS LIGHTING - CU2RC OR APPROVED EQUAL	1		120V 1P 2W	DIMENSION OF UNIT: 9" L X 4" W X 2.75" DP	MOUNT AT 6" BELOW CEILING IN SALES AREA AND 10' AFF IN WAREHOUSE	PROVIDE FINAL AIMING AS DIRECTED BY ENGINEER
XE		LED WALL MOUNTED EMERGENCY/EXIT RED LETTERS, HIGH IMPACT WHITE THERMOPLASTIC HOUSING DAMP LOCATION MOUNTED, REMOTE UNIT BATTERY CAPACITY FOR REMOTE OUTDOOR UNIT	WALL	COMPASS LIGHTING - CCRCRC OR APPROVED EQUAL	4.4		120V 1P 2W	DIMENSION OF UNIT: 18" L X 7.2" W X 4.3" DP	MOUNT ON CEILING IN CORRIDOR OR 12" ABOVE DOORWAYS	PROVIDE FINAL AIMING AS DIRECTED BY ENGINEER



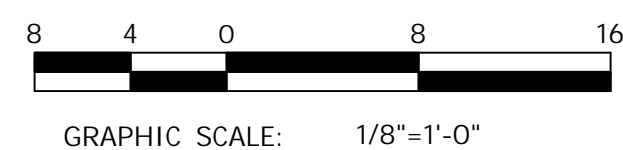
2
E4
PANEL "2L" LOCATION
SCALE: 1/32" = 1'-0"

SWITCH SCHEDULE

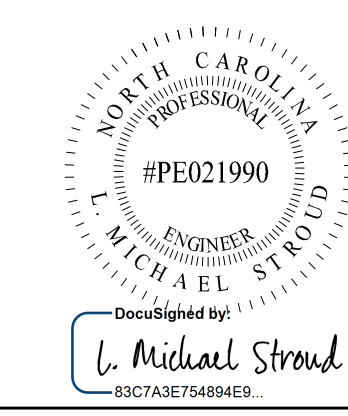
CALLOUT	SYMBOL	NOTE 1	NOTE 2
SINGLE POLE SWITCH		HUBBELL 1221 OR APPROVED EQUAL IN ARCHITECT APPROVED COLOR	MOUNT AT 48" AFF U.O.N.
THREWAY SWITCH		HUBBELL 1223 OR APPROVED EQUAL IN ARCHITECT APPROVED COLOR	MOUNT AT 48" AFF U.O.N.



1
E4
LIGHTING PLAN
SCALE: 1/8" = 1'-0"



PROJECT NO.: PM3167-001
DRAWING NO.: 005



L. MICHAEL STROUD, P.E.
3/27/2024

REVISIONS			
BY	NO.	DATE	DESCRIPTION
WGB	1	3/27/24	ADDENDUM 1

LIGHTING PLAN

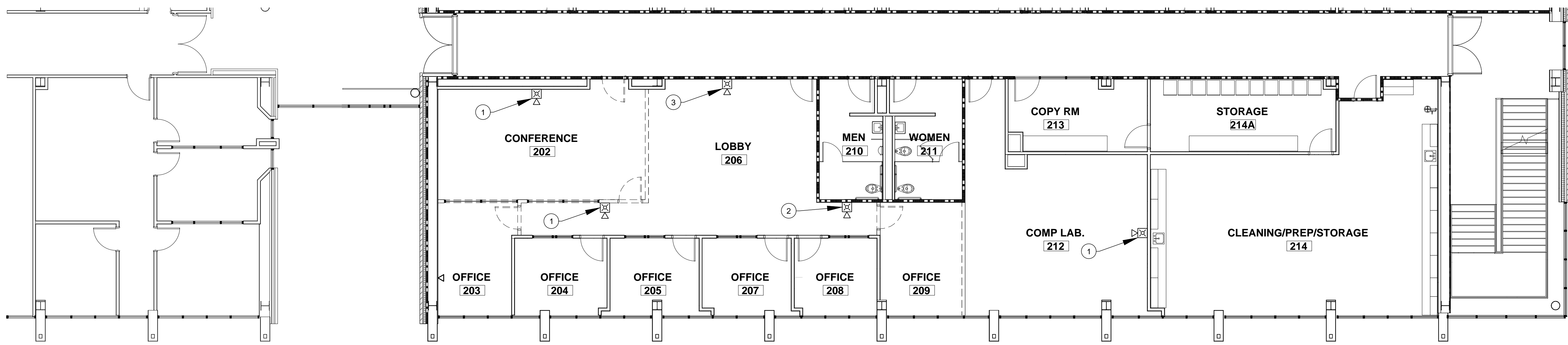
**CARTERET COMMUNITY COLLEGE
WAYNE WEST OFFICE RENOVATIONS**

MOREHEAD CITY CARTERET COUNTY NORTH CAROLINA

OWNER: CARTERET COMMUNITY COLLEGE
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 MOREHEAD CITY, NC 28557
PHONE:

DESIGNED: WGB	DATE: 02/06/2024
DRAWN: WGB	SCALE: AS NOTED
APPROVED: LMS	SHEET E4 OF 5

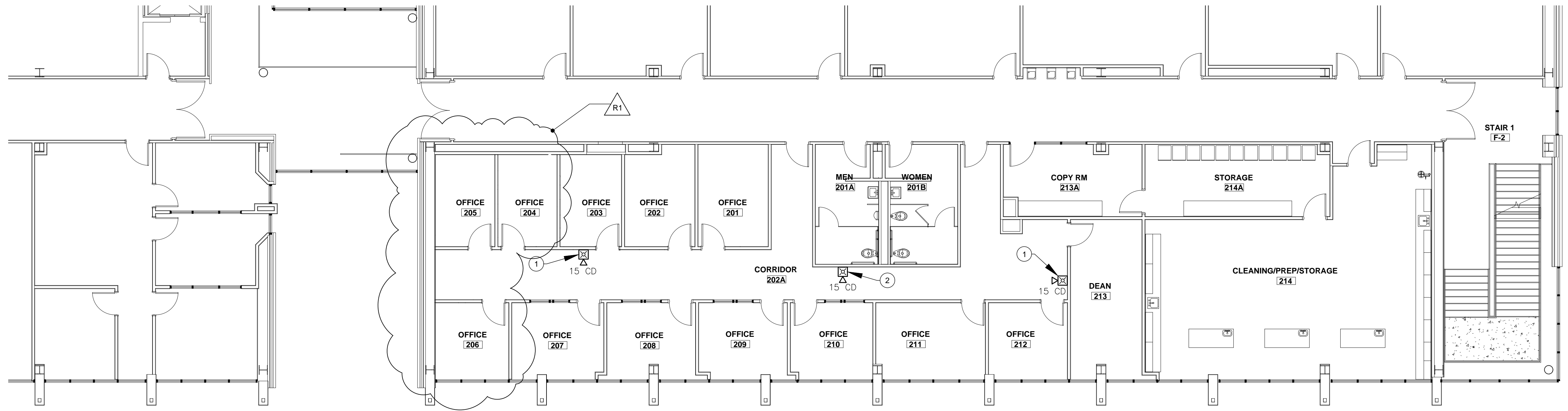
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MOREHEAD CITY, NC 28557
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FIRE ALARM DEMOLITION PLAN NOTES

- EX. HORN/STROBE TO BE RELOCATED. SEE FIRE ALARM PLAN ON THIS SHEET FOR LOCATIONS.
- EX. HORN/STROBE TO REMAIN.
- REMOVE EX. HORN/STROBE. TURN OVER TO OWNER TO KEEP AS SPARE.

1
E5
FIRE ALARM DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



FIRE ALARM PLAN NOTES

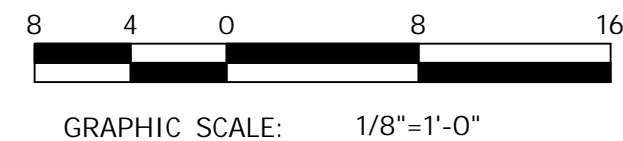
- RELOCATED HORN/STROBE.
- EX. TO REMAIN HORN/STROBE.

2
E5
FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH 2018 NORTH CAROLINA BUILDING CODES, NFPA 70-2020 WITH NORTH CAROLINA REVISIONS, AND NFPA 72 (EDITION REFERENCED IN NORTH CAROLINA CODES).

FIRE ALARM SCHEDULE		
CALLOUT	SYMBOL	NOTE 1
AUDIO VISUAL	☒	MOUNT AT THE LOWER HEIGHT OF 80" AFF OR 6" BELOW CEILING
VISUAL ALARM	☒	MOUNT AT THE LOWER HEIGHT OF 80" AFF OR 6" BELOW CEILING



REVISIONS			
BY	NO.	DATE	DESCRIPTION
LMS	1	3/27/24	ADDENDUM 1

FIRE ALARM PLAN

CARTERET COMMUNITY COLLEGE
WAYNE WEST OFFICE RENOVATIONS

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DESIGNED: WGB DATE: 02/06/2024
DRAWN: WGB SCALE: AS NOTED
APPROVED: LMS SHEET E5 OF 5

STROUD ENGINEERING, P.A.
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MOREHEAD CITY, NC 28557
(252) 247-7479 LICENSE NO. C-0647

NORTH CAROLINA PROFESSIONAL ENGINEER
#PE021990
L. MICHAEL STROUD
3/27/2024
L. MICHAEL STROUD, P.E.