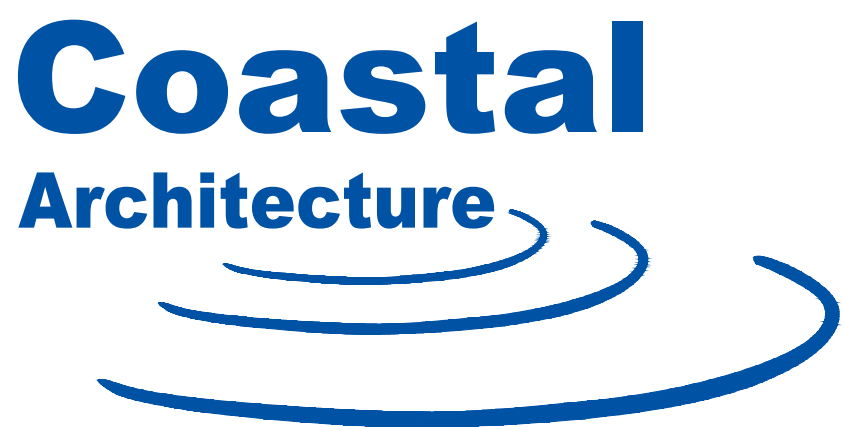


COLUMBUS COUNTY
SHERIFF'S OFFICE
WHITEVILLE, NORTH CAROLINA



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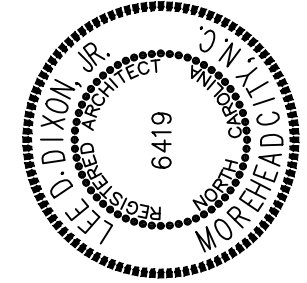
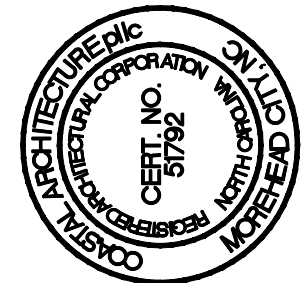
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COLUMBUS COUNTY
SHERIFF'S OFFICE
WHITEVILLE, NORTH CAROLINA

DOI



COVER SHEET

23029

ISSUED: 12.12.2024
DWG BY: MSG
CKD BY: LDD

REVISIONS	
2	3.17.2025

SHEET NO.
CS-1
OF

APPENDIX B
2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: COLUMBUS COUNTY SHERIFF'S OFFICE
Address: 811 WASHINGTON ST, WHITEVILLE, NC 28412 Zip Code: 28412
Owner/Authorized Agent: Phone #: E-Mail: lee@coastalarchitecture.net
Owned By: ☒ City/County ☐ Private ☐ State ☐ County ☐ State
Code Enforcement Jurisdiction: ☒ City: WHITEVILLE ☐ County ☐ State

CONTACT:
DESIGNER: FIRM NAME LICENSE # TELEPHONE # E-MAIL
Architectural Coastal Architecture Lee Dixon 6419 (252) 241-2121 lee@coastalarchitecture.net
Civil - - - - -
Electrical Burke Design Group Ben Burks 22038 (919) 111-1916 benburks@ncrr.com
Fire Alarm - - - - -
Plumbing Burke Design Group Ben Burks 22038 (919) 111-1916 benburks@ncrr.com
Mechanical Burke Design Group Ben Burks 22038 (919) 111-1916 benburks@ncrr.com
Sprinkler-Standpipe - - - - -
Structural FDR Health Hendrick (919) 421-0501 hhendrick@fdr-eng.com
Retaining Walls > 5 feet High - - - - -
Other - - - - -
(*Other should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☐ New Building ☐ Shell/Cor ☐ 1st Time Interior Completions
☒ Addition ☐ Phased Construction—Shell Cor
2018 NC EXISTING BUILDING CODE: ☒ Prescriptive ☐ Alteration Level I ☐ Historic Property
(check all that apply) ☐ Repair ☐ Alteration Level II ☐ Change of Use
☐ Chapter 14 ☐ Alteration Level III
CONSTRUCTED: (date) _____ CURRENT USE(S) (ch. 3): B, S-1, A-3
RENOVATED: (date) _____ PROPOSED USE(S) (ch. 3): B, S-1, A-3
OCCUPANCY CATEGORY (Table 1604.5): Current: B, S-1, A-3 RISK CATEGORY: IV

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

GROSS BUILDING AREA TABLE
Floor Existing (sq ft) New (sq ft) Subtotal
3rd Floor
2nd Floor
Mezzanine
Basement
TOTAL

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design versus the 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: _____

Climate Zone: ☒ 3A ☐ 4A ☐ 5A

Method of Compliance:

Energy Code: ☐ Performance ☒ Prescriptive
ASHRAE 90.1: ☐ Performance ☐ Prescriptive
Other: ☐ Performance (specify source) _____

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 insulation: _____

Floors over unconditioned space (each assembly)

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade

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

ALLOWABLE AREA

Primary Occupancy Classification(s): ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Assembly ☒ 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-3 ☐ I-4
I-3 Condition ☐ 1 ☐ 2
I-2 Condition ☐ 1 ☐ 2
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
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):

Incidental Uses (Table 509):

This separation is not exempt as a Nonseparated Use (see exceptions).

Special Uses (Chapter 4 – List Code Sections):

Special Provisions: (Chapter 5 – List Code Sections):

Mixed Occupancy: ☐ No ☒ Yes Separation: 2 Hr. Exception:

Non-separated Use (508.3)

X 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.

Select one

Actual Area of Occupancy A	+	Actual Area of Occupancy B	+	Actual Area of Occupancy C	15
Allowable Area of Occupancy A		Allowable Area of Occupancy B		Allowable Area of Occupancy C	
0548	+	372	+	046	= 966 ≤ 1,000

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.24 AREA	(C) AREA FOR FRONTAGE INCREASES, 6	(D) ALLOWABLE AREA PER STORY OR UNLIMITED, 3
1	BUSINESS NEW/EXIST	22,086	23,000	17,250	40,250
1	ASSEMBLY A-3	6,200	9,500	7,125	16,625
1	STORAGE S-1	1,414	17,500	13,125	30,625

1. Frontage area increases from Section 506.2 are computed thus:
- Perimeter which fronts a public way or open space having 20 feet minimum width = 1,100 (F)
 - Total Building Perimeter = 1,100 (F)
 - Ratio (F/P) = 1.75 (F/P)
 - W = Minimum width of public way = 30 (W)
2. Unlimited area applicable under conditions of Section 507.
3. Maximum Building Area = total number of stories in the building × D (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 unspinklered area value in Table 506.2.

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Wind (IW) 1.5
Snow (IS) 1.2
Seismic (IE) 1.5

Live Loads: Roof 20 psf
Mezzanine 20 psf
Floor 50/100 psf
Ground Snow Load: 10 psf

Wind Load: Basic Wind Speed 145 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: A B C D

Provide the following Seismic Design Parameters:

Occupancy Category (Table 1604.5) ☐ I ☐ II ☒ III ☐ IV

Spectral Response Acceleration SS %g S1 %g

Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F

Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data

Basic structural system (check one) (TO BE VERIFIED IN FEM-B SHOP DRAWINGS)

☐ Bearing Wall ☐ Dual w/Special Moment 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) 2000 psf

Presumptive Bearing capacity psf

Pile size, type, and capacity

MECHANICAL DESIGN

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: _____

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: _____

ELECTRICAL DESIGN

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
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified versus allowed (whole building or space by space)
total exterior wattage specified versus allowed

Additional Prescriptive Compliance

- ☐ 506.2.1 More Efficient Mechanical Equipment
☐ 506.2.2 Reduced Lighting Power Density
☐ 506.2.3 Energy Recovery Ventilation Systems
☐ 506.2.4 Higher Efficiency Service Water Heating
☐ 506.2.5 On-Site Supply of Renewable Energy
☐ 506.2.6 Automatic Daylighting Control Systems

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
> 30	UP, NS	NO LIMIT	—

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☒ Yes ☐ No
Exit Signs: ☒ Yes ☐ No
Fire Alarm: ☒ Yes ☐ No
Smoke Detection Systems: ☐ Yes ☒ No (PARTIAL ONLY)
Carbon Monoxide Detection: ☒ Yes ☐ No

LIFE SAFETY PLAN REQUIREMENTS

- Life Safety Plan Sheet #: G-2
- ☒ 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 (1010.1.9.9)
 - ☒ 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

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS	TYPE A UNITS PROVIDED	TYPE B UNITS	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
0	-	-	0	0	0	0	0

ACCESSIBLE PARKING (SECTION 1106)

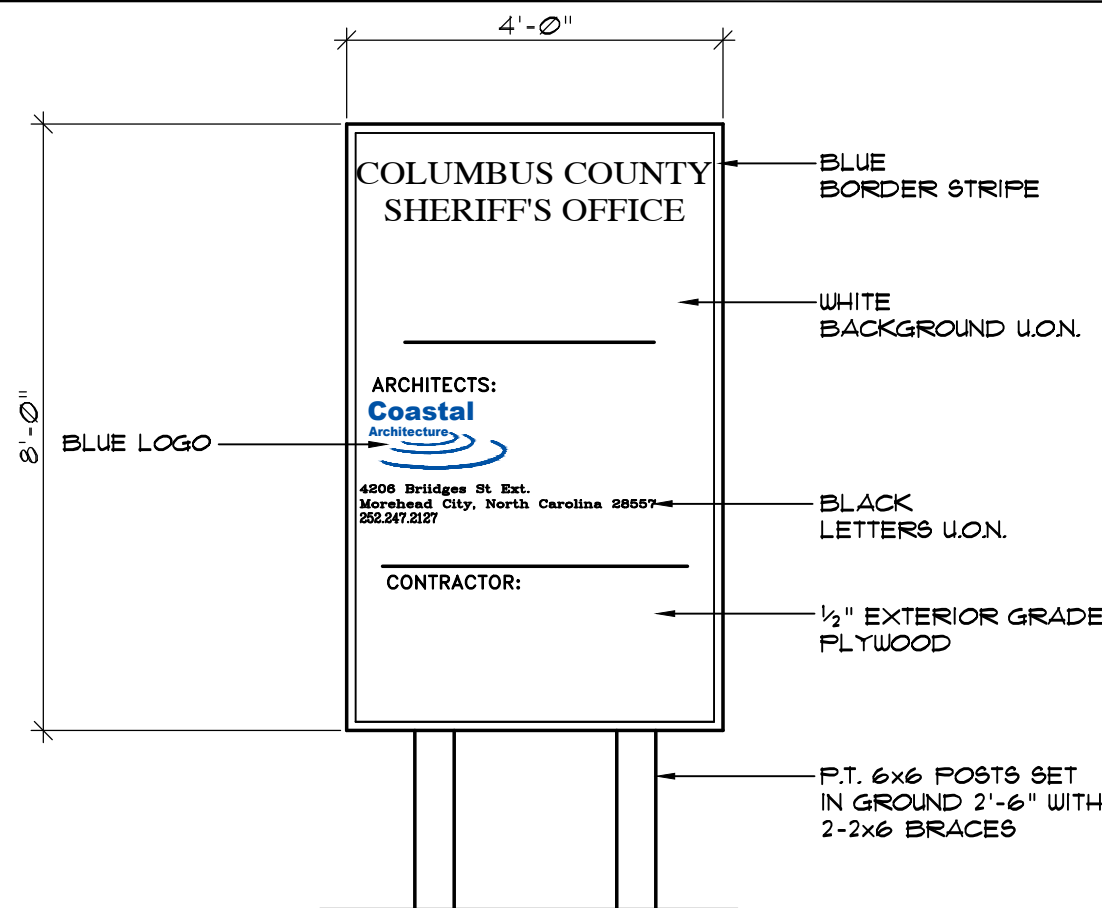
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED				TOTAL # ACCESSIBLE UNITS PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	8' ACCESS AISLE		
TOTAL							

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS			LAVATORIES			SHOWERS/TUBS	DRINKING FOUNTAINS	
	Male	Female	Unisex	Urinals	Male	Female	Unisex	Regular	Accessible
REQ'D	8	8	-	-	5	5	-	4	-
PROVIDED	3	6	-	2	4	4	4	1	1
EXISTING	2	3	3	2	2	2	3	1	1
TOTAL PROVIDED	5	9	3	4	6	6	7	2	2

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)
NC DEPARTMENT OF INSURANCE



1 PROJECT SIGN
G-1 NOT TO SCALE

NOTE: SUBMIT SHOP DRAWING FOR COORDINATION OF LETTER HEIGHTS SPECIFIC SIGN COLORS.

NOTE: VERIFY SIGN SIZES AND REQUIREMENTS W/ TOWN

SIGN LOCATION TO BE FIELD VERIFIED W/ ARCHITECT

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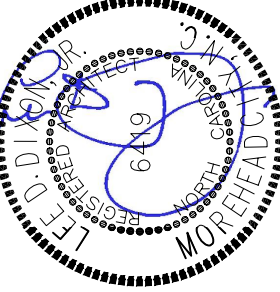
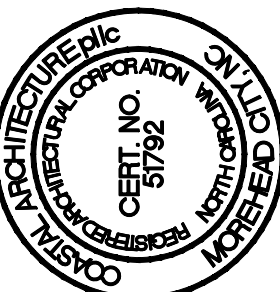
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COLUMBUS COUNTY
SHERIFF'S OFFICE
WHITEVILLE, NORTH CAROLINA

DOI



GENERAL DATA

23029

ISSUED: 12.12.2024

DWG BY: CRF

CKD BY: LDD

REVISIONS

01 02/19/2025

02 03/11/2025

03 05/15/2025

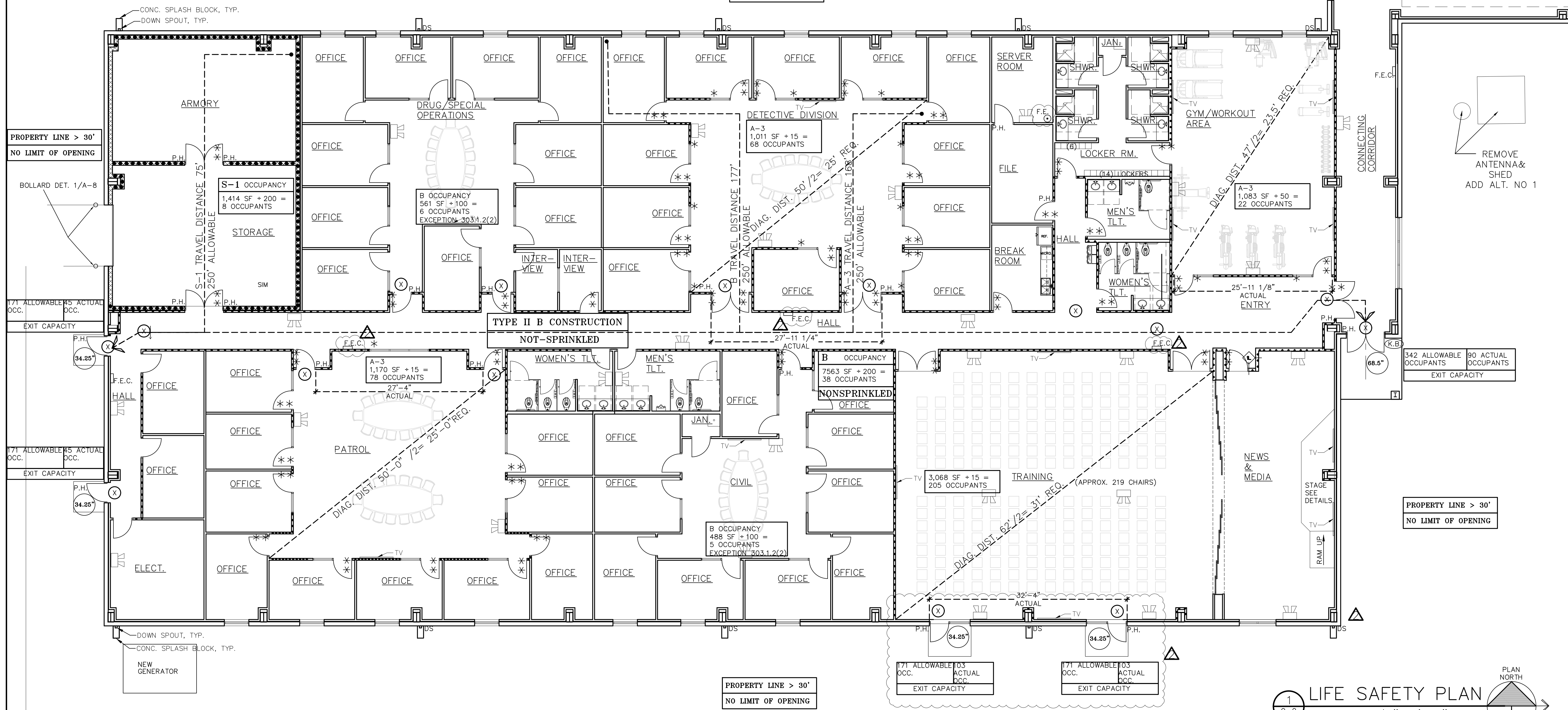
SHEET NO.

G-1
OF

WALL TYPE LEGEND			
	3 5/8" METAL STUDS Ø 16" O.C. INTERIOR W/ 5/8" GWB EACH SIDE FROM FLOOR TO 6" ABOVE CEILING (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION		8" CMU (2 HR RATED) NON LOADBEARING WALL FROM FLOOR TO ROOF DECK ABOVE (TYP.) AND 3 5/8" METAL STUDS Ø 16" O.C. INTERIOR NON LOADBEARING WALL FROM FLOOR TO ROOF DECK ABOVE (TYP.) OFFICE OR HALL SIDE WITH SOUND INSULATION
	3 5/8" METAL STUDS Ø 16" O.C. INTERIOR W/ 5/8" GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION		(2HR-RATED) 3 5/8" METAL STUDS Ø 16" O.C. INTERIOR W/ 2X 5/8" GWB EACH SIDE FROM FLOOR TO 6" ABOVE CEILING (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION
	3 5/8" METAL STUDS Ø 16" O.C. INTERIOR W/ 5/8" SOUNDBREAK GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION		(2HR-RATED) 3 5/8" METAL STUDS Ø 16" O.C. INTERIOR W/ 2X 5/8" GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION
	6" METAL STUDS Ø 16" O.C. INTERIOR W/ 5/8" GWB EACH SIDE FROM FLOOR TO 6" ABOVE CLG. (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION		(2HR-RATED) 6" METAL STUDS Ø 16" O.C. INTERIOR W/ 2X 5/8" SOUNDBREAK GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION
	6" METAL STUDS Ø 16" O.C. INTERIOR W/ 5/8" GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION		(2HR-RATED) 6" METAL STUDS Ø 16" O.C. INTERIOR W/ 2X 5/8" GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION
	8" CMU NON LOADBEARING WALL FROM FLOOR TO ROOF DECK ABOVE (TYP.)		

- OCCUPANCY/LOAD TYPE KEYING:
- B = BUSINESS
A-3 = ASSEMBLY
S-1 = STORAGE
- LEGEND:
- FE ○ = FIRE EXTINGUISHER ON STANDARD HOOK
F.E.C. = FIRE EXTINGUISHER AND CABINET
LARSEN SEMI-RECESSED FS 2409-R3
BRUSHED CHROME W/ MP5 FIRE EXTINGUISHER
- 2 HR RATED WALL (U.L. U419)
2 HR RATED WALL (U.L. U906)
- * 90 MINUTE RATED GLAZING AND FRAMES
** 90 MINUTE RATED DOOR AND FRAMES
- 34.25" = CLEAR EXIT WIDTH
68.5"
- = EXIT
- K.B. = KNOX BOX, FIRE DEPARTMENT KEY LOCK BOX
CONFIRM LOCATION W/ FIRE DEPARTMENT
- P.H. PANIC HARDWARE

EMERGENCY LIGHT- REFER TO ELECTRICAL DRAWINGS



1 LIFE SAFETY PLAN
G-2 SCALE: 1/8"=1'-0"

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APPROVED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION

6419

LIFE SAFETY PLAN

23029

ISSUED: 12.12.2024
DWG BY: CRF
CKD BY: LDD

REVISIONS

01	02/19/2025
02	03/17/2025

SHEET NO.
G-2
OF

UL FIRE RATED
Design No. U906

Diagram illustrating the horizontal section of a wall assembly, showing the following components and dimensions:

- 1. CONCRETE BLOCKS** - Nominal 8 by 8 by 16 in., hollow or solid. Classification D-2 (2 hr).
- 2. MORTAR - Blocks laid in full bed of mortar, not 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 10 percent hydrated lime (by cement volume). Vertical joints staggered.
- 3. PORTLAND CEMENT STUCCO OR GYPSUM PLASTER - If used, add 1/2 in. to Classification. Attached to concrete blocks (item 1).
- 4. FOAMED PLASTIC* - (Optional - not shown) 1-1/2 in thick max, 4 ft wide sheathing attached to concrete blocks (item 1).

Labels in diagram:

- 1. CONCRETE BLOCKS**
- 2. MORTAR
- 3. PORTLAND CEMENT STUCCO OR GYPSUM PLASTER
- 4. FOAMED PLASTIC*

Dimensions:

- 3/8" (Thickness of concrete blocks)
- 1/2" (Thickness of mortar)
- 1/2" (Thickness of plaster)
- 1/2" (Thickness of foamed plastic)

Notes:

- *Bearing the UL Classification Marking



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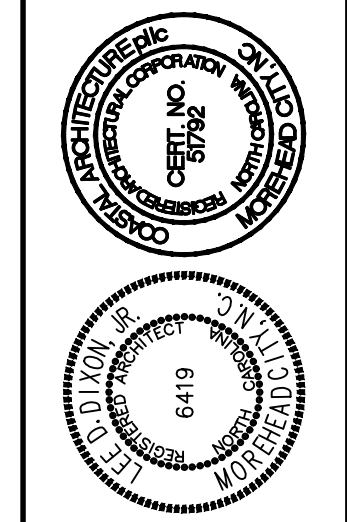
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WHITEVILLE, NORTH CAROLINA**

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U.L. DETAILS

23029

ISSUED: 12.12.2024
DWG BY: CRF
CKD BY: LDD

REVISIONS	
01	02/19/2025
02	03/18/2025

SHEET NO.
G-3
OF

COLUMBUS COUNTY SHERIFF'S OFFICE

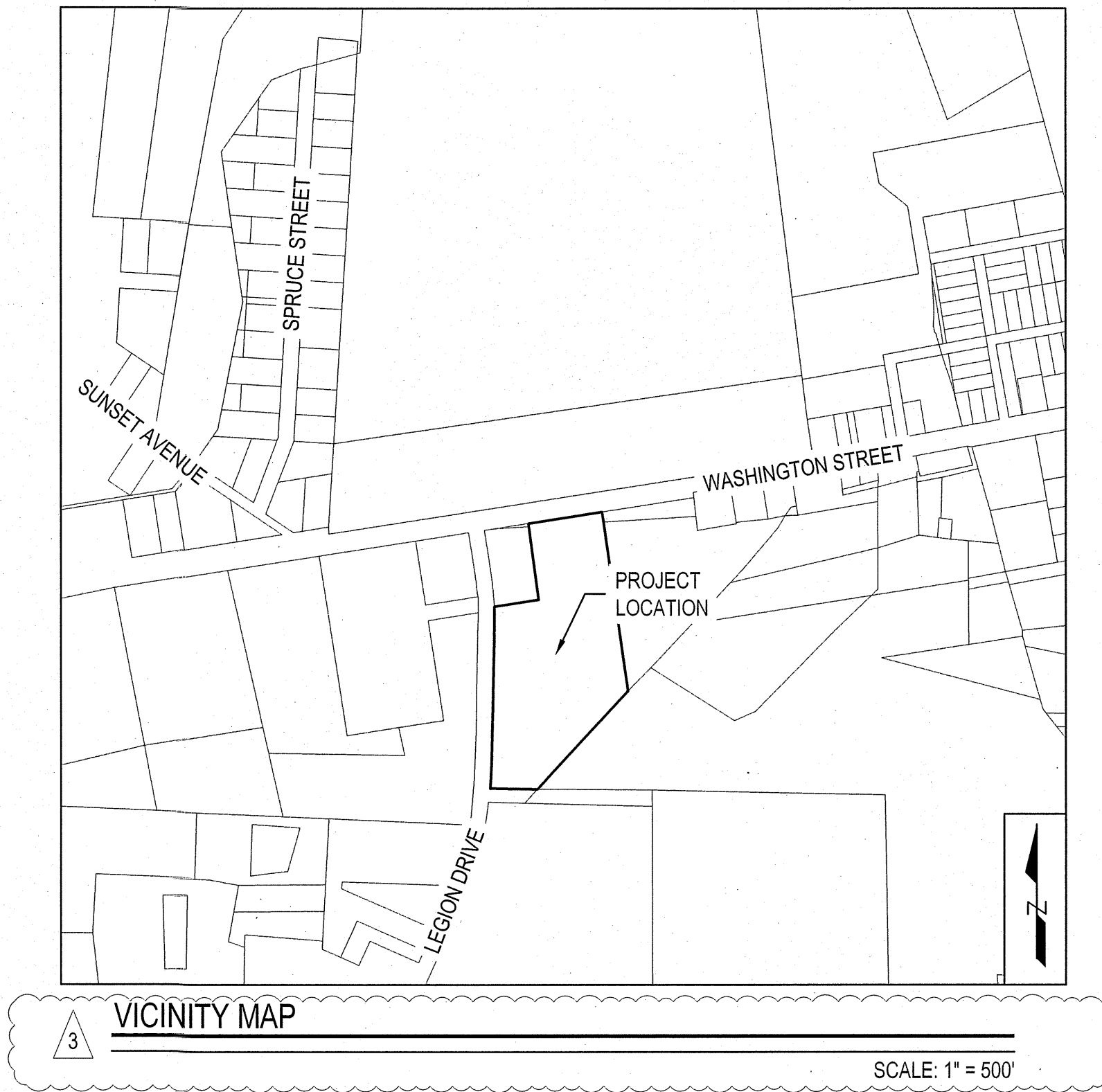
817 WASHINGTON STREET

WHITEVILLE, NORTH CAROLINA

COLUMBUS COUNTY

DRAWINGS	
COVER SHEET	C1 OF 8
EXISTING CONDITIONS AND DEMOLITION PLAN	C2 OF 8
SITE PLAN	C3 OF 8
UTILITY PLAN	C4 OF 8
GRADING PLAN	C5 OF 8
LANDSCAPE PLAN	C6 OF 8
IMPERVIOUS STRUCTURE BREAKDOWN PLAN	C7 OF 8
DETAILS	C8 OF 8

SYMBOLS & ABBREVIATIONS	
(BG)	BELOW GRADE
BOL	BOLLARD
CLF	CHAIN-LINK FENCE
CO	CLEAN OUT
CTWR	COMMUNICATIONS TOWER
DI	DROP INLET
ECM	EXISTING CONCRETE MARKER
EIR	EXISTING IRON REBAR
FFE	FINISHED FLOOR ELEVATION
FOC	FIBEROPTIC CABLE
GS	GENERATOR SLAB
GW	GUYWIRE
ICV	IRRIGATION CONTROL VALVE
LA	LANDSCAPED AREA
NS	NAIL SET
OHE	OVERHEAD ELECTRIC
PA	PLAYGROUND AREA
PB	POWER BOX
PC	PARKING CHOCK
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
WSO	WATER SHUT OFF
SS	SANITARY SEWER
TP	TELEPHONE PEDESTAL
UF	UNDERGROUND FIBEROPTIC
UG	UNDERGROUND GAS
WL	WATER LINE
☆	POWER POLE
☆	NIGHT LIGHT



LINETYPES	
---	EX. CONTOUR
---	EX. SEWER LINE
---	EX. WATERLINE

PROJECT DATA

NAME OF PROJECT:
COLUMBUS COUNTY SHERIFF'S OFFICE
817 WASHINGTON STREET
WHITEVILLE, NORTH CAROLINA

PREPARED BY:
ARENDELL ENGINEERS
1004 ARENDELL STREET
MOREHEAD CITY, NC 28557
PHONE: (252) 622-4338
EMAIL: JOHN@ARENDELLENGINEERS.COM

PROPERTY OWNER:
COUNTY OF COLUMBUS
125 WASHINGTON STREET, SUITE B
WHITEVILLE, NC 28472

SURVEYOR:
SOLES AND WALKER, P.A., P.L.S.
104 COURTHOUSE SQUARE
WHITEVILLE, NC 28472
PHONE: (910) 642-2872

DATUMS:
VERTICAL: NAVD88
HORIZONTAL: NC STATE PLANE COORDINATE SYSTEM

- NOTES:
- BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY SOLES AND WALKER, P.A., P.L.S., DATED: JULY 10, 2024.
 - PROPERTY LOCATED IN FLOOD ZONE X PER FIRM MAP NUMBER 3720637600J DATED JULY 16, 2003.
 - PROPERTY IS ZONED OFFICE & INSTITUTIONAL BY THE TOWN OF WHITEVILLE.

PROJECT MANAGER:	JJW
DESIGNED:	JJW
DRAWN BY:	JST
CHECKED:	JJW
SCALE:	AS SHOWN
DATE:	01/27/2025

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1004 Arendell Street
Morehead City, NC 28557
(252) 622-4338
Fax: (252) 622-4505

www.arendellengineers.com
North Carolina Certification No. C-1509
OWNER:

COLUMBUS COUNTY

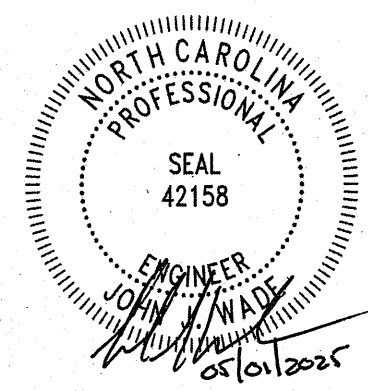
PROJECT:

COLUMBUS COUNTY SHERIFF'S OFFICE
817 WASHINGTON STREET
WHITEVILLE, NORTH CAROLINA 28472

COLUMBUS COUNTY, NC

DRAWING:

COVER SHEET



NO.	REVISION	DATE	BY
1	WATERLINE REVISIONS	01/29/25	JJW
2	PARKING AND DETAILS	03/26/25	JJW
3	BUILDING AND FIRE CODE COMMENTS	04/30/25	JJW

SHEET NO: **C1**

OF: 8

JOB NO. **DOI** 24265



PROJECT MANAGER:	JJ
DESIGNED:	JJ
DRAWN BY:	JS
CHECKED:	JJ
SCALE:	1" = 3'
DATE:	01/27/2012

1004 Arendell Street
Morehead City, NC 28557
(252) 622-4338
Fax: (252) 622-4505

North Carolina Certification No. C-150

OWNER: _____

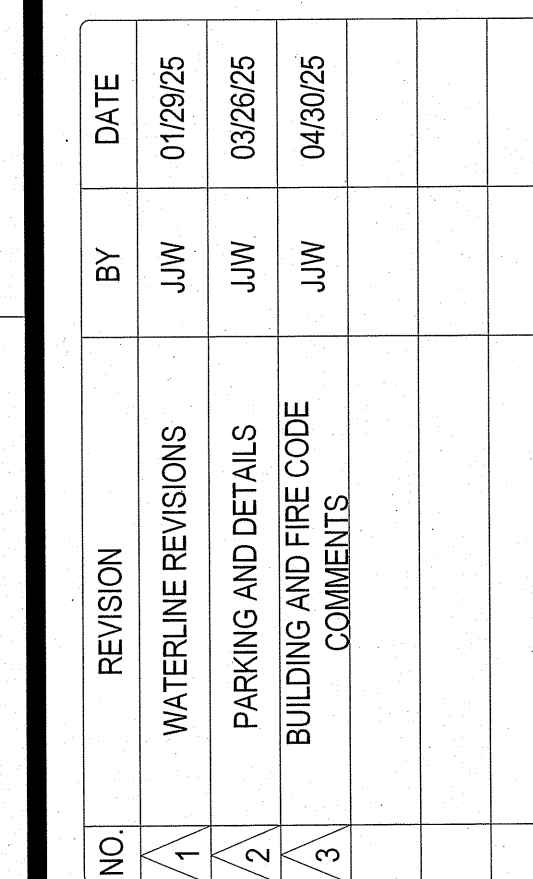
COLUMBUS COUNTY

PROJECT:

COLUMBUS COUNTY, NC

DRAWING:

EXISTING CONDITIONS AND DEMOLITION PLAN

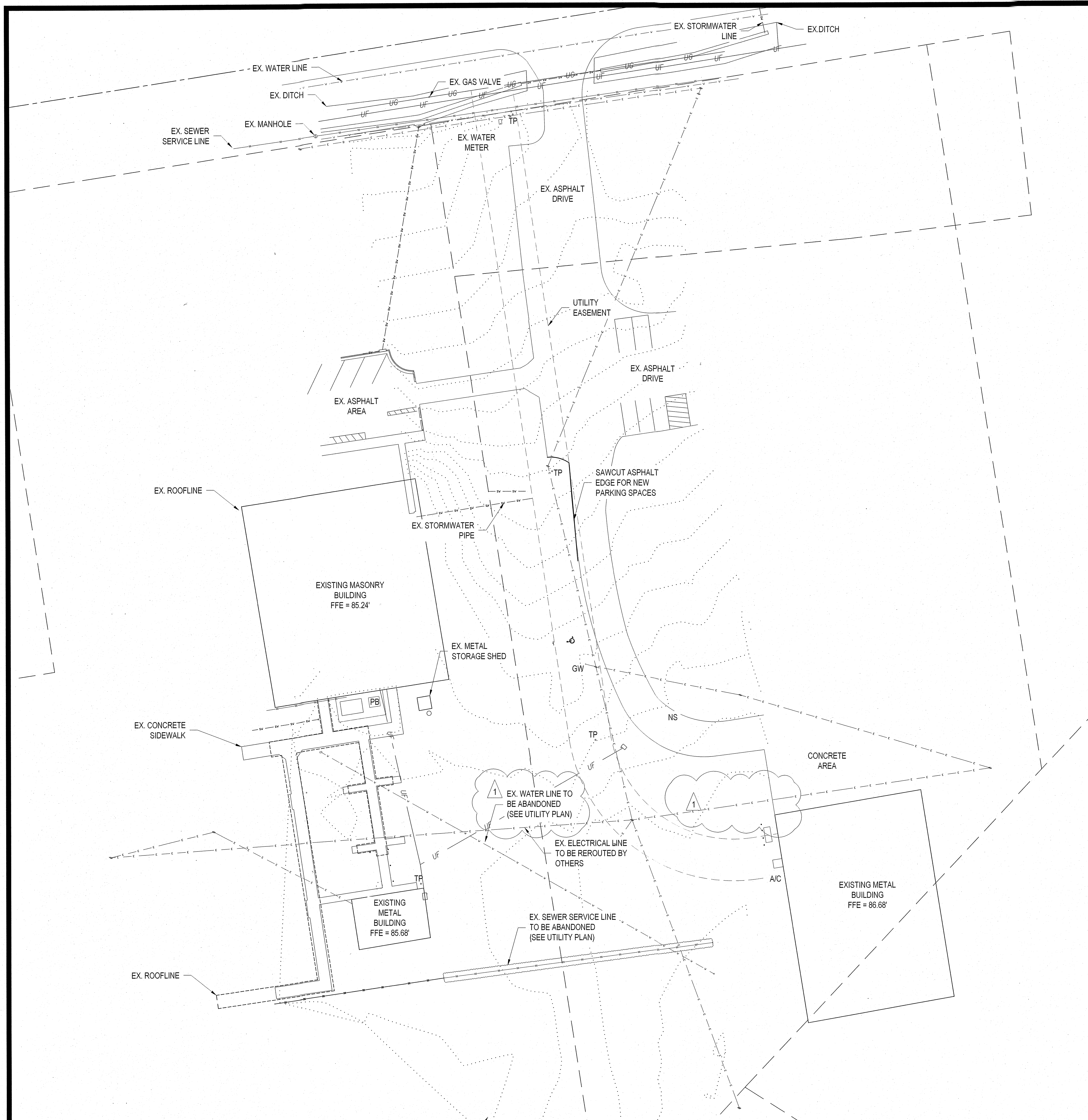


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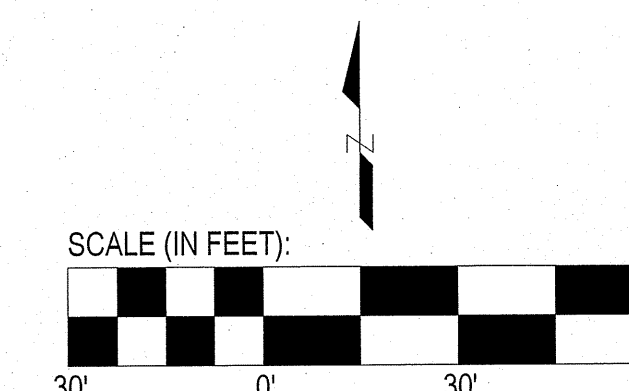
OF: 8

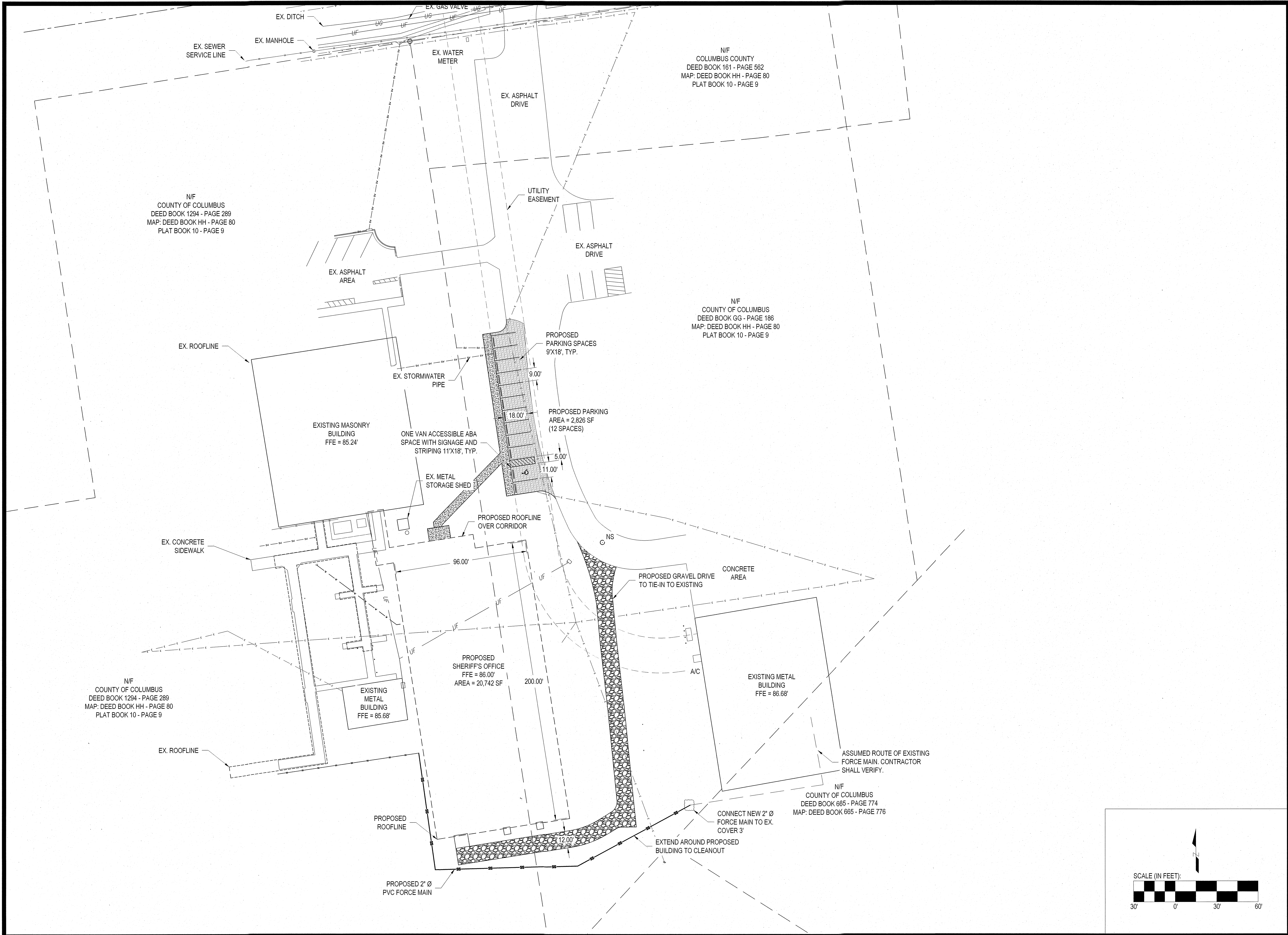
JOB NO. **501**

JOB NO. **DOI** 242



1. BOUNDARY, TOPOGRAPHIC SURVEY PROVIDED BY SOLES & WALKER, P.A., P.L.S., DATED: 9/24/2024
2. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WITHIN PROJECT AREA PRIOR TO CONSTRUCTION AND PROTECTING UTILITIES AS NECESSARY.





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WITHOUT EXPRESS WRITTEN
PERMISSION.

PROJECT MANAGER: JJW
DESIGNED: JJW
DRAWN BY: JST
CHECKED: JJW
SCALE: 1" = 30'
DATE: 01/27/2025

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OWNER:

COLUMBUS COUNTY

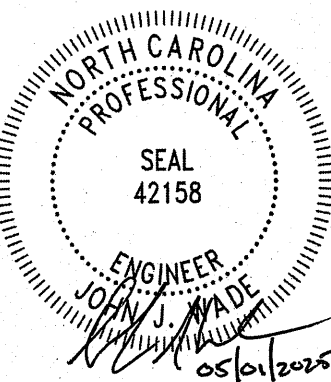
PROJECT:

COLUMBUS COUNTY SHERIFF'S OFFICE
817 WASHINGTON STREET
WHITEVILLE, NORTH CAROLINA 28472

COLUMBUS COUNTY, NC

DRAWING:

SITE PLAN

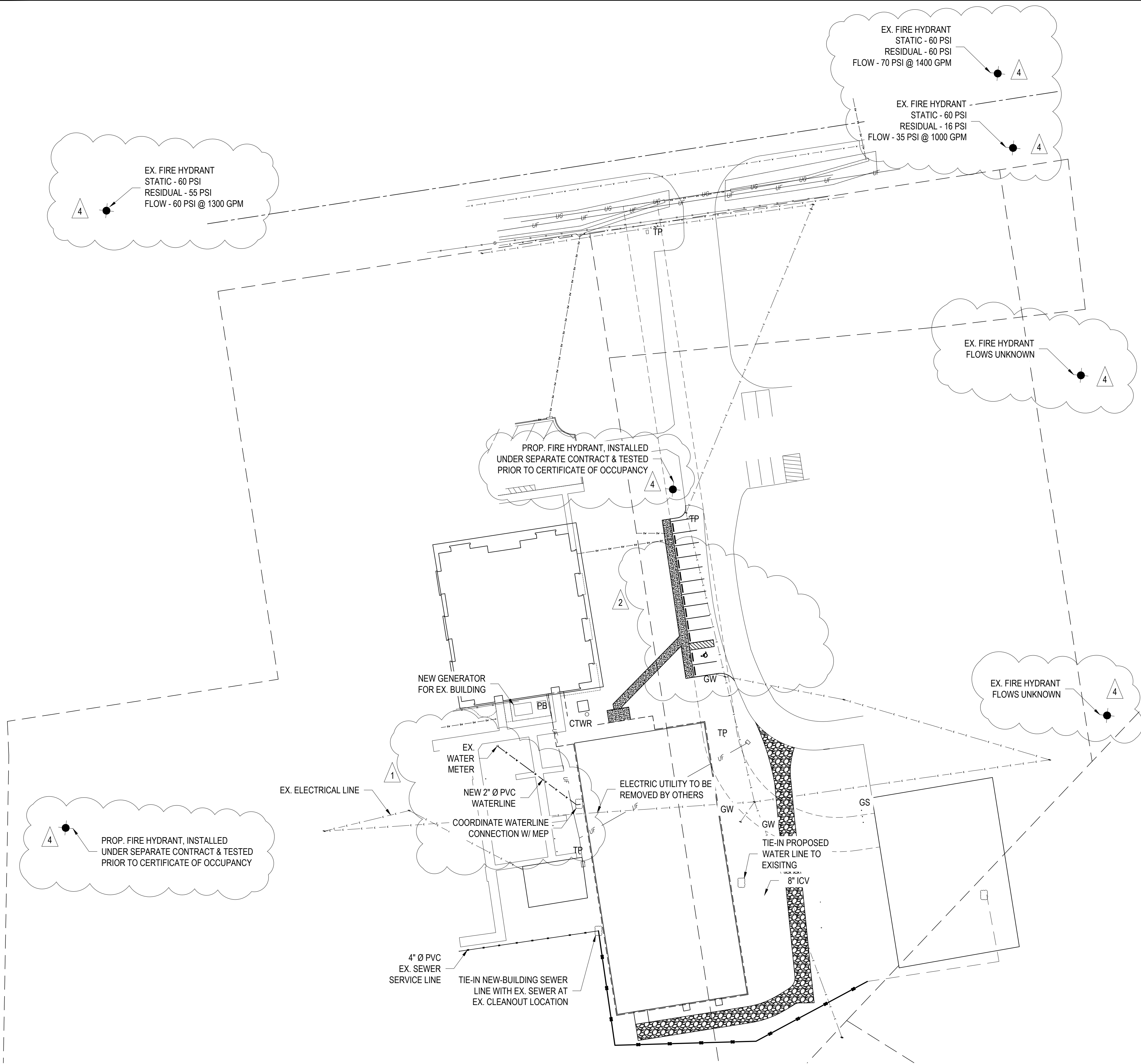


NO.	REVISION	DATE	BY
1	WATERLINE REVISIONS	01/29/25	JJW
2	PARKING AND DETAILS	03/26/25	JJW
3	BUILDING AND FIRE CODE COMMENTS	04/30/25	JJW

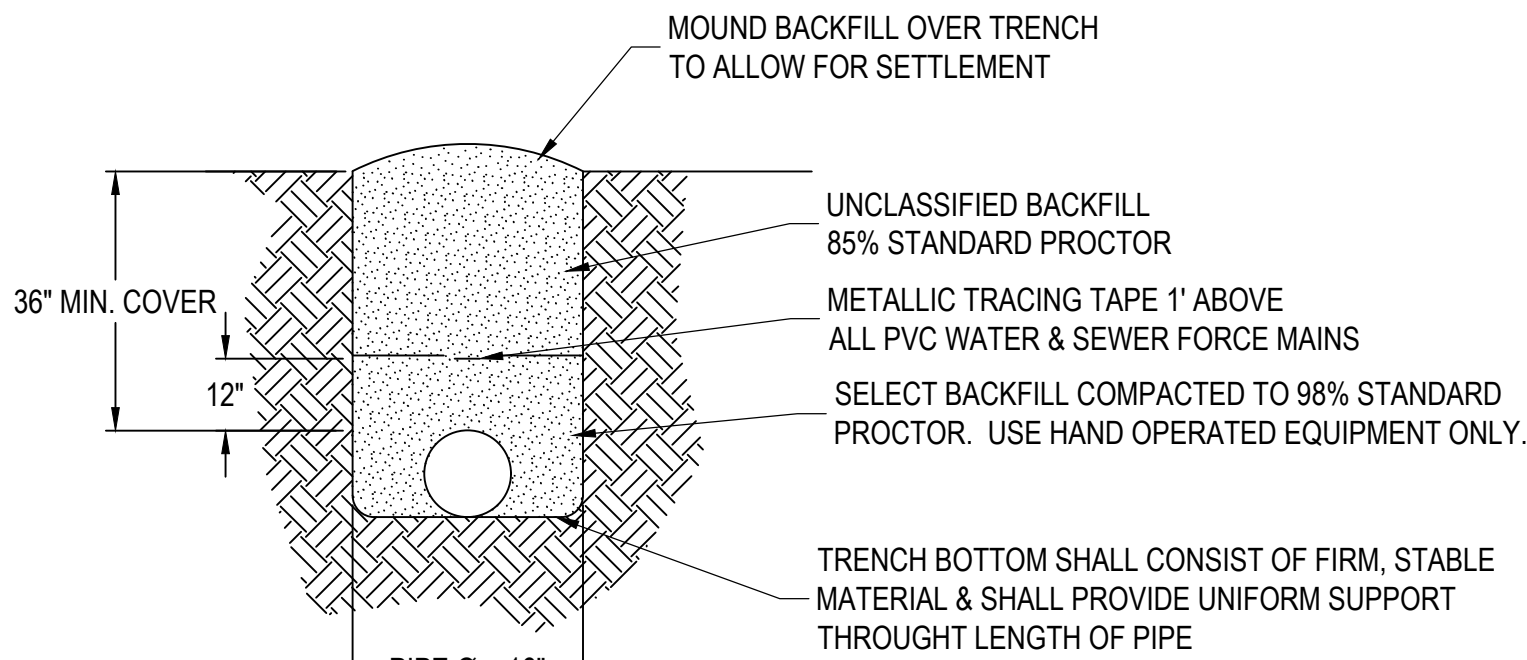
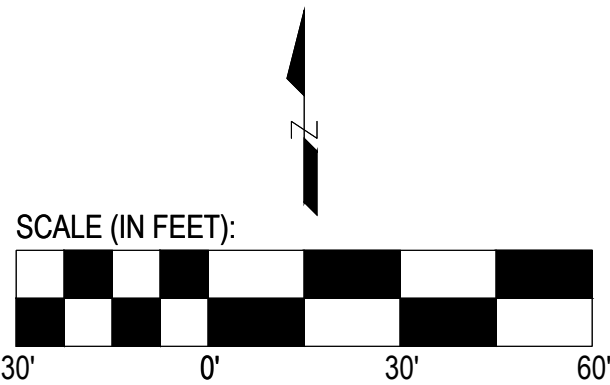
SHEET NO:

C3

OF: 8
JOB NO. DOI 24265

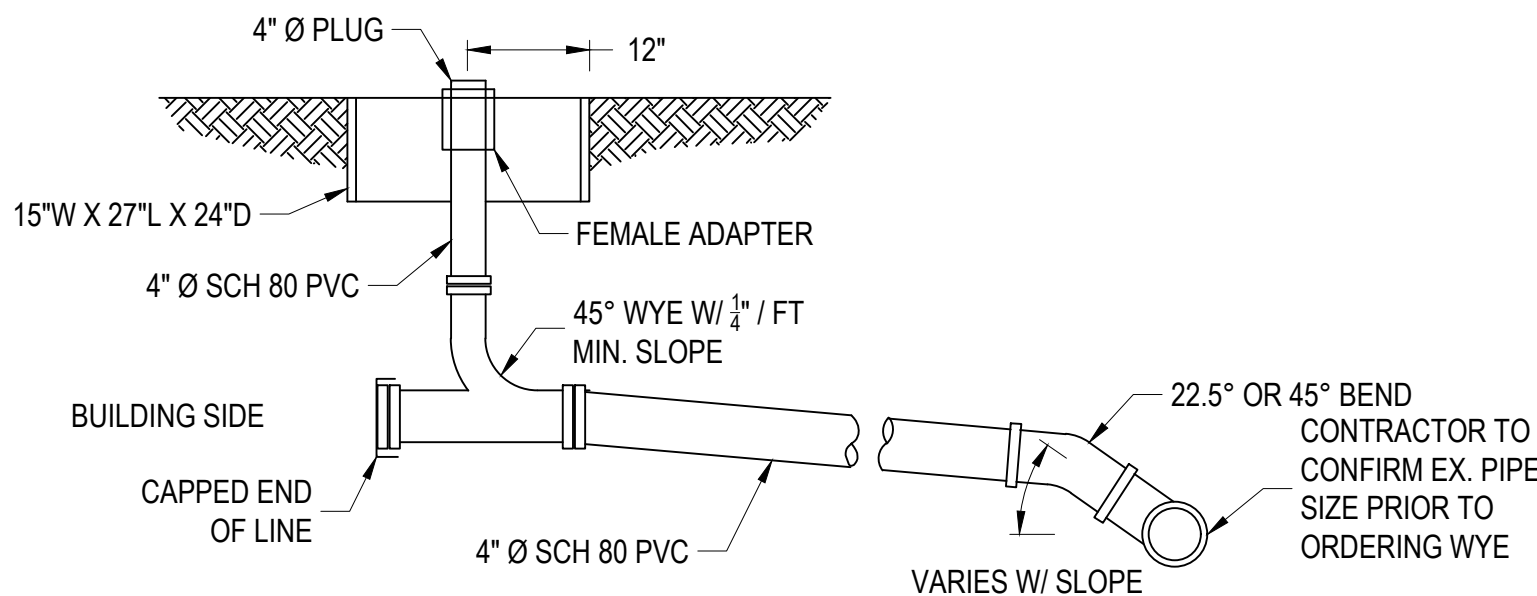


NOTES:
WATER AND SEWER SERVICES TO BE COORDINATED
WITH MEP ARCHITECTS AND EXISTING SITE UTILITIES.

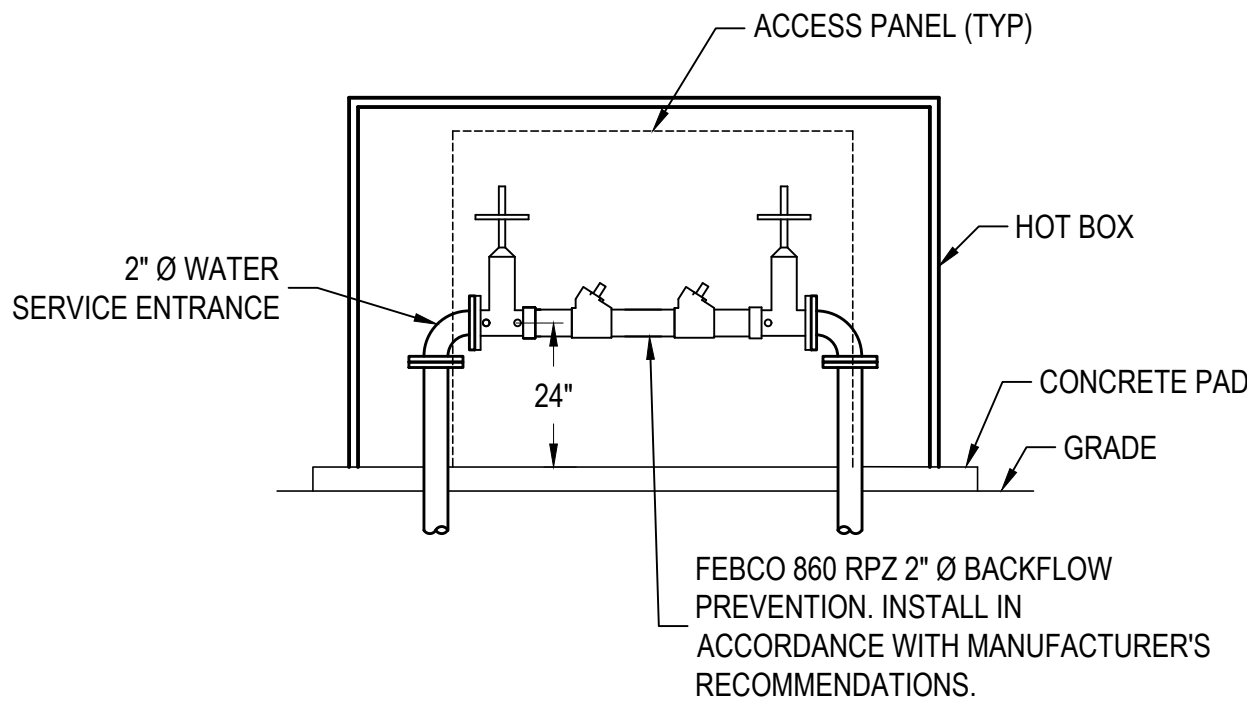


NOTE: FOR MULTIPLE PIPES, PROVIDE 18" MINIMUM SEPARATION.

1 PIPE TRENCH OUTSIDE PAVED AREA
SCALE: NOT TO SCALE



1 SANITARY SEWER CLEANOUT
SCALE: NOT TO SCALE



ELEVATION

NOTE: CONTRACTOR SHALL PROVIDE HE ALUMINUM HOT BOX WITH MINIMUM INTERIOR DIMENSIONS OF 15" WIDE X 40" LONG X 42"

1 WATER SERVICE RPZ DETAIL
SCALE: NOT TO SCALE

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PROJECT MANAGER:

JJW

DESIGNED:

JJW

DRAWN BY:

JST

CHECKED:

JJW

SCALE:

1" = 30'

DATE:

01/27/2025



1004 Arendell Street
Morehead City, NC 28557
(252) 622-4338
Fax: (252) 622-4505

www.arendellengineers.com

North Carolina Certification No. C-1509

OWNER:

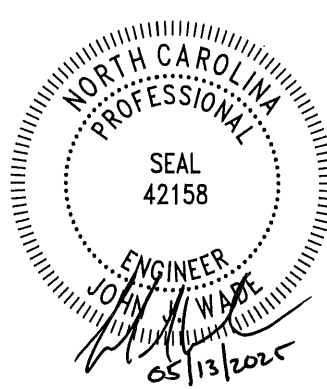
COLUMBUS COUNTY

PROJECT:

COLUMBUS COUNTY SHERIFF'S OFFICE
817 WASHINGTON STREET
WHITEVILLE, NORTH CAROLINA 28472

COLUMBUS COUNTY, NC

DRAWING:



NO.	REVISION	DATE	BY
1	WATERLINE REVISIONS	01/29/25	JJW
2	PARKING AND DETAILS	03/26/25	JJW
3	BUILDING AND FIRE CODE COMMENTS	04/30/25	JJW
4	FH FLOWS & NEW HYDRANTS	05/13/25	JJW

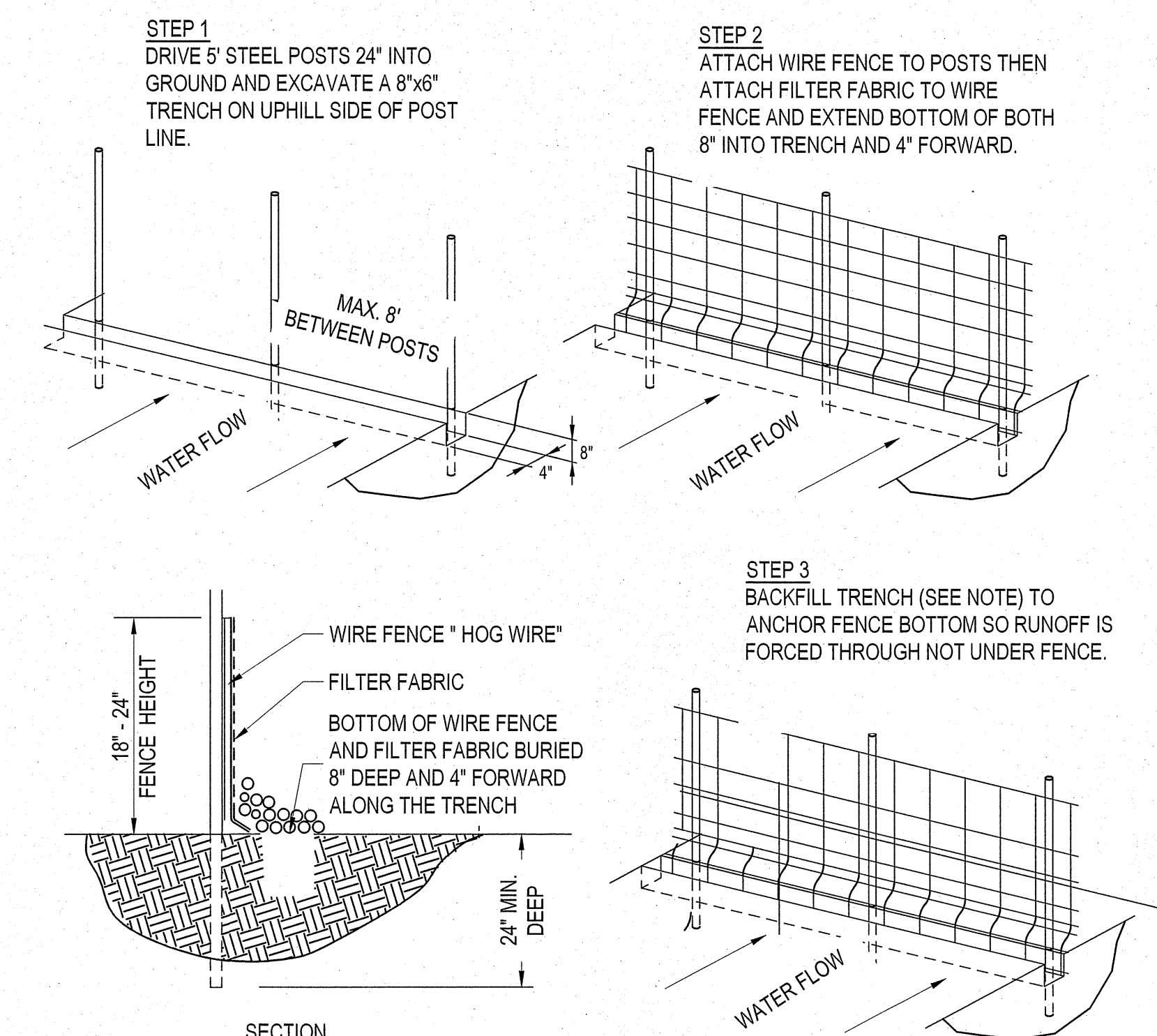
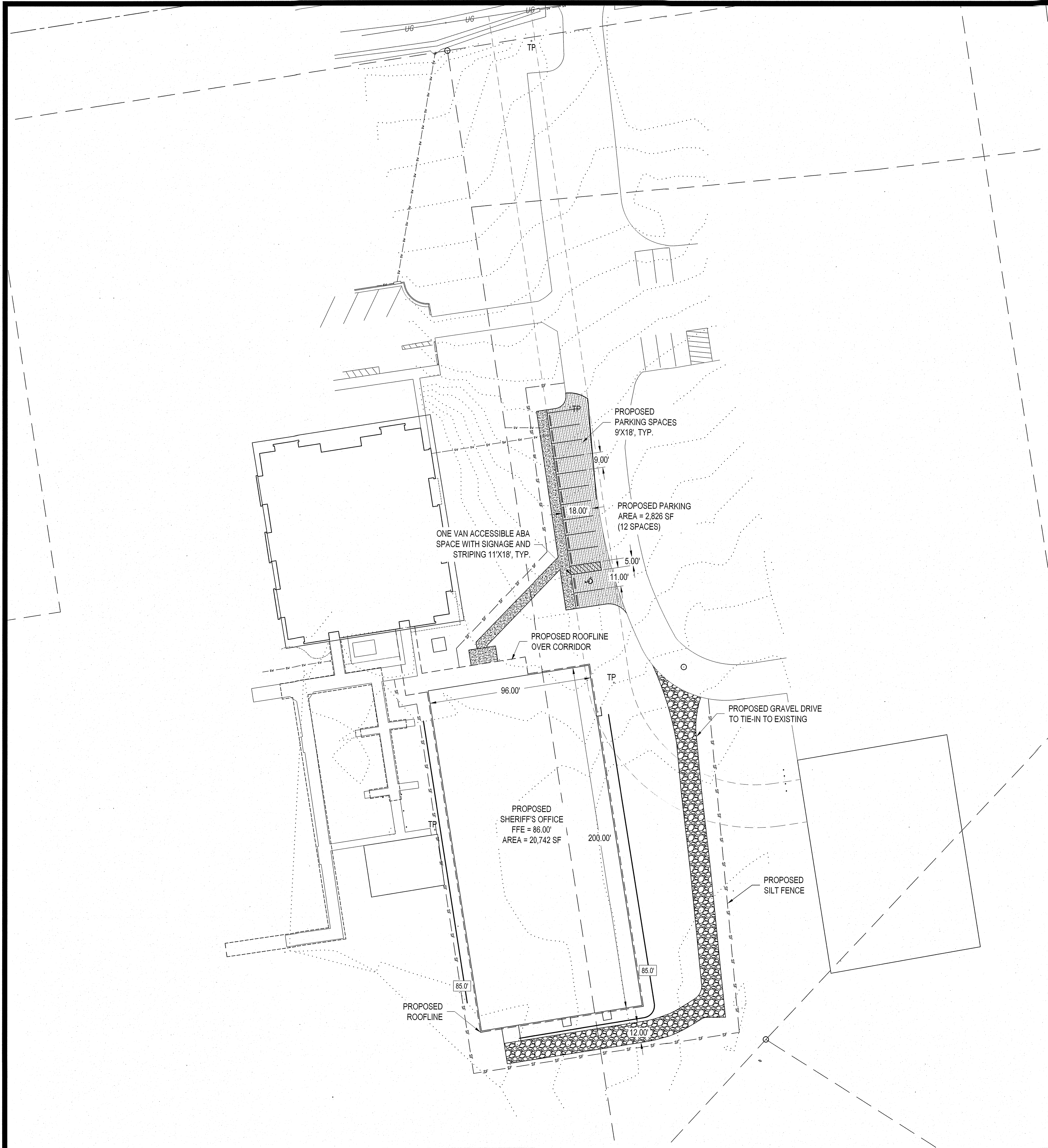
SHEET NO:

C4

OF: 8

JOB NO.

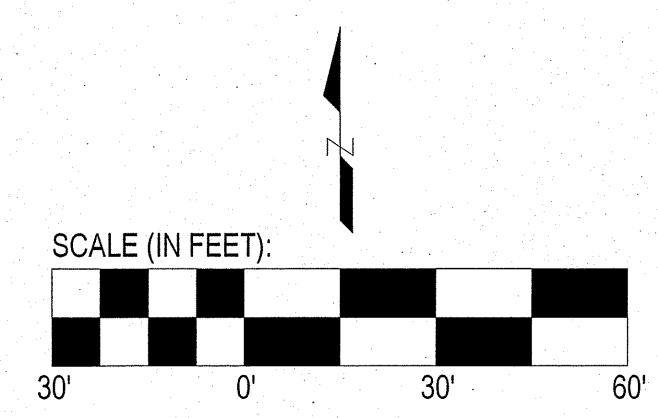
DOI 24265



TEMPORARY SILT FENCE
SCALE: NOT TO SCALE

- NOTES:
1. SEE EROSION CONTROL GENERAL NOTES.
 2. FILTER FABRIC BOTTOM SHALL BE PLACED 8" IN TRENCH AND 4" FORWARD AND SECURED BY EITHER WASHED STONE EXTENDING A MINIMUM OF 6" ABOVE GROUND LEVEL OR TAMPED SOIL BACKFILL MATERIAL TO GROUND LEVEL OR HIGHER.

- NOTES:
- APPROX. 8,200 SF OF DISTURBED AREA OUTSIDE OF THE PROPOSED SHERIFF'S OFFICE.
 - APPROX. DISTURBED AREAS WILL BE SODDED.
- LEGEND:
- XX.X' — PROPOSED COUNTOUR ELEVATION
 - XX.X' — EXISTING COUNTOUR AND ELEVATION



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PROJECT MANAGER: JJW

DESIGNED: JJW

DRAWN BY: JST

CHECKED: JJW

SCALE: 1" = 30'

DATE: 01/27/2025

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OWNER: COLUMBUS COUNTY

PROJECT: COLUMBUS COUNTY SHERIFF'S OFFICE
817 WASHINGTON STREET
WHITEVILLE, NORTH CAROLINA 28472

COLUMBUS COUNTY, NC

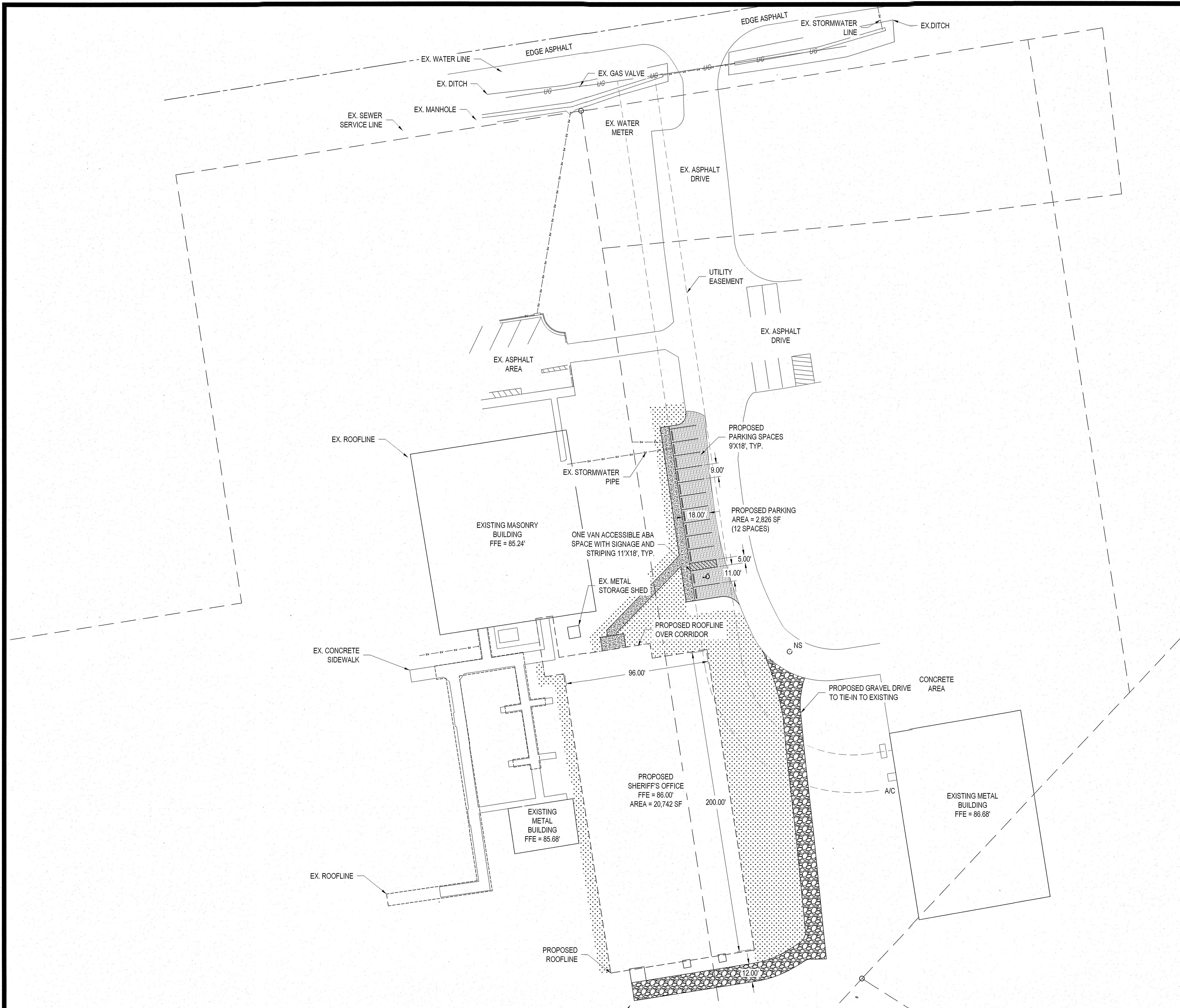
DRAWING: GRADING PLAN

NO.	REVISION	DATE	BY
1	WATERLINE REVISIONS	01/29/25	JJW
2	PARKING AND DETAILS	03/28/25	JJW
3	BUILDING AND FIRE CODE COMMENTS	04/30/25	JJW

SHEET NO: **C5**

OF: 8

JOB NO. **DOI** 24265



NOTES:

- APPROX. 8,200 SF OF DISTURBED AREA OUTSIDE OF THE PROPOSED SHERIFF'S OFFICE.
- APPROX. DISTURBED AREAS WILL BE SODDED.

- DISTURBED AREAS TO BE SODDED

SCALE (IN FEET):

20' 0' 30' 60'

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PROJECT MANAGER:	JJW
DESIGNED:	JJW
DRAWN BY:	JST
CHECKED:	JJW
SCALE:	1" = 30'
DATE:	01/27/2025

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OWNER:

COLUMBUS COUNTY

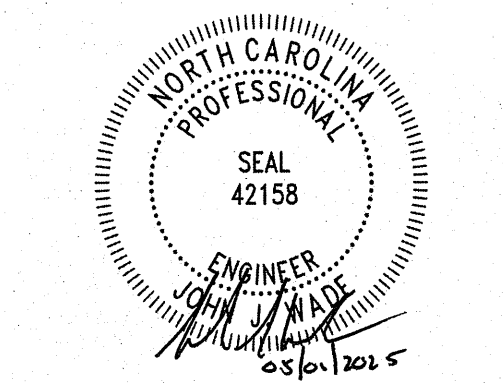
PROJECT:

COLUMBUS COUNTY SHERIFF'S OFFICE
817 WASHINGTON STREET
WHITEVILLE, NORTH CAROLINA 28472

COLUMBUS COUNTY, NC

DRAWING:

LANDSCAPE PLAN



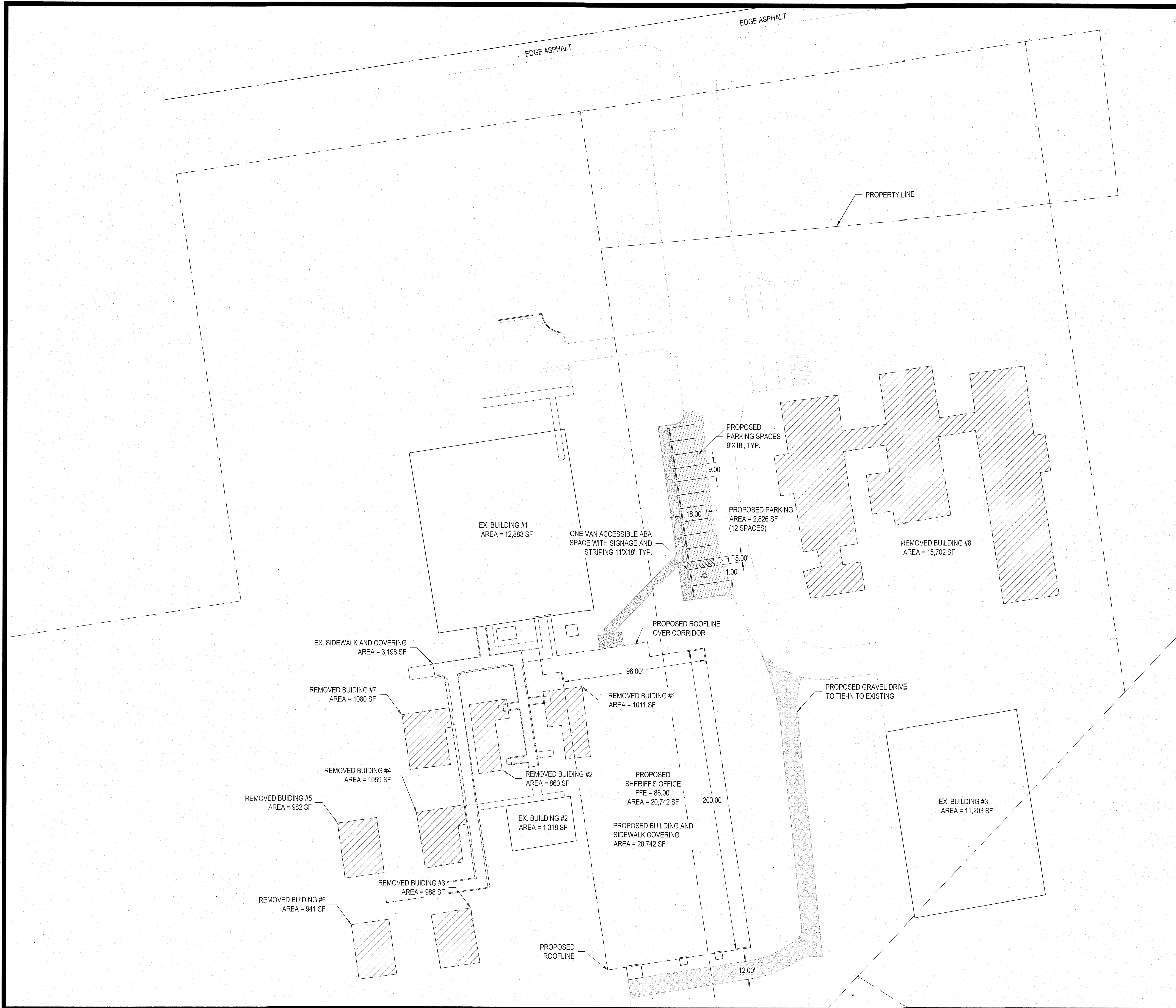
NO.	REVISION	BY	DATE
1	WATERLINE REVISIONS	JJW	01/29/25
2	PARKING AND DETAILS	JJW	03/26/25
3	BUILDING AND FIRE CODE COMMENTS	JJW	04/30/25

SHEET NO:

C6

OF: 8

JOB NO. DOI 24265

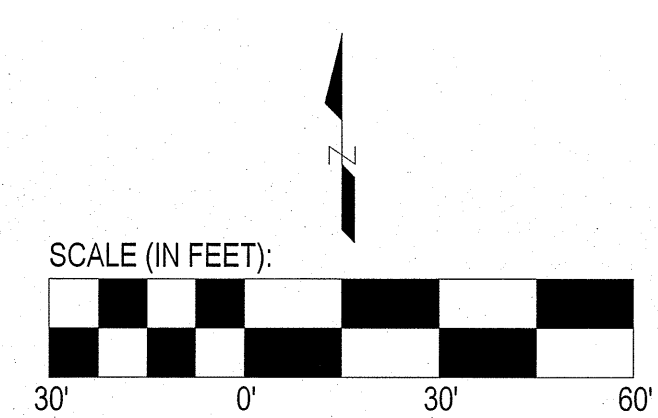


Existing Impervious Area Removed	
Removed Building #1	1011
Removed Building #2	860
Removed Building #3	988
Removed Building #4	1059
Removed Building #5	982
Removed Building #6	941
Removed Building #7	1080
Removed Building #8	15702
Total Impervious Removed (SF) =	22623

Proposed Impervious Area Breakdown	
Existing Building #1	12883
Existing Building #2	1318
Existing Sidewalk and Covering	3198
Existing Building #3	11203
Proposed Building and Covering	20742
Proposed Sidewalk	1304
Proposed Parking Area	3090
Total Impervious (SF) =	53738

Existing Impervious Area Before Demo	
Existing Building #1	12883
Existing Building #2	1318
Existing Sidewalk and Covering	3198
Existing Building #3	11203
Removed Buildings	22623
Total Impervious (SF) =	51225

TOTAL ADDITIONAL IMPERVIOUS (SF)
2513



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PROJECT MANAGER: JJW
DESIGNED: JJW
DRAWN BY: JST
CHECKED: JJW
SCALE: 1" = 30'
DATE: 01/27/2025

ARENDELL ENGINEERS
CIVIL • COASTAL • ENVIRONMENTAL
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Morehead City, NC 28557
(252) 622-4338
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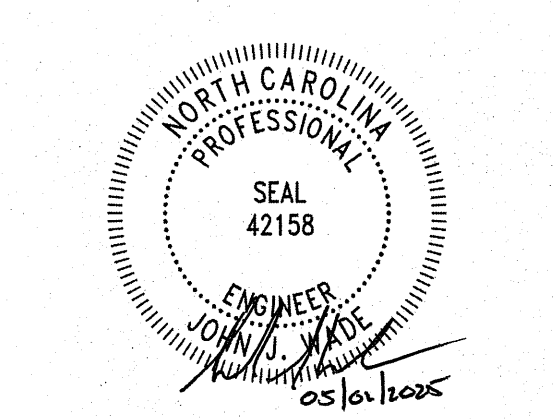
www.arendellengineers.com
North Carolina Certification No. C-1509
OWNER:

COLUMBUS COUNTY

PROJECT:
COLUMBUS COUNTY SHERIFF'S OFFICE
817 WASHINGTON STREET
WHITEVILLE, NORTH CAROLINA 28472

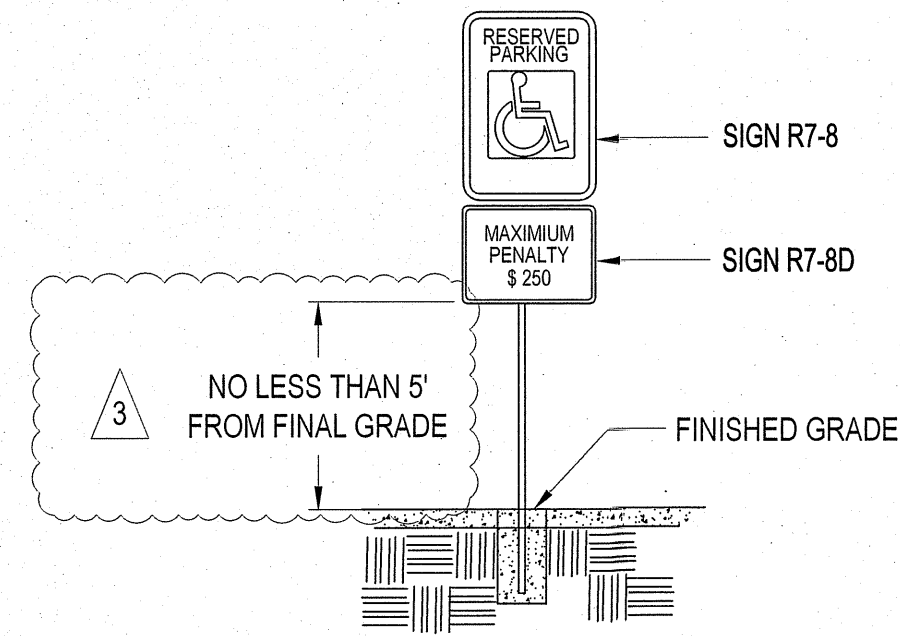
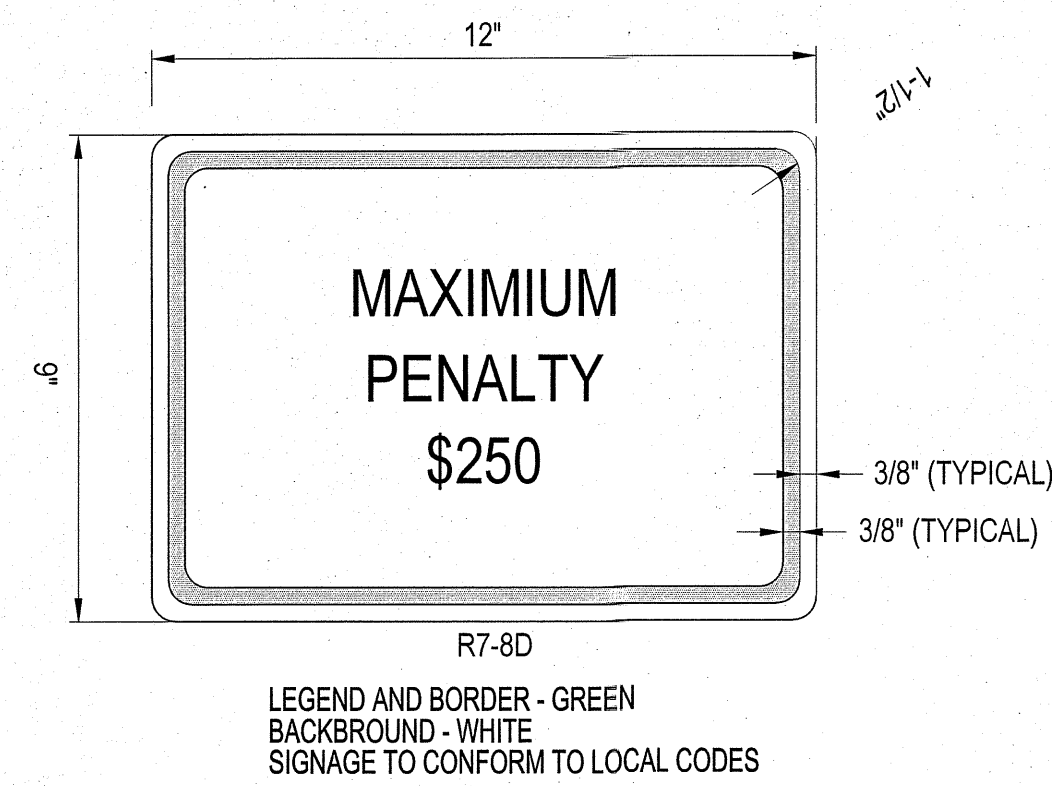
COLUMBUS COUNTY, NC
DRAWING:

PROPOSED IMPERVIOUS
BREAKDOWN PLAN

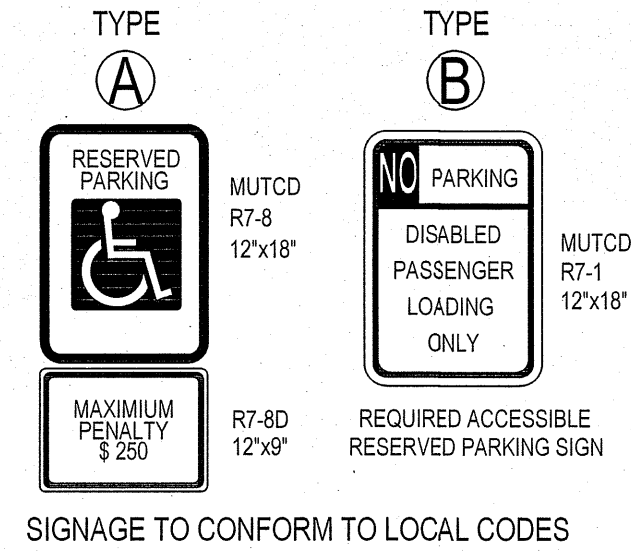


DATE	01/29/25	03/26/25	04/30/25		
BY	JJW	JJW	JJW		
REVISION	WATERLINE REVISIONS	PARKING AND DETAILS	BUILDING AND FIRE CODE COMMENTS		
NO.	1	2	3		

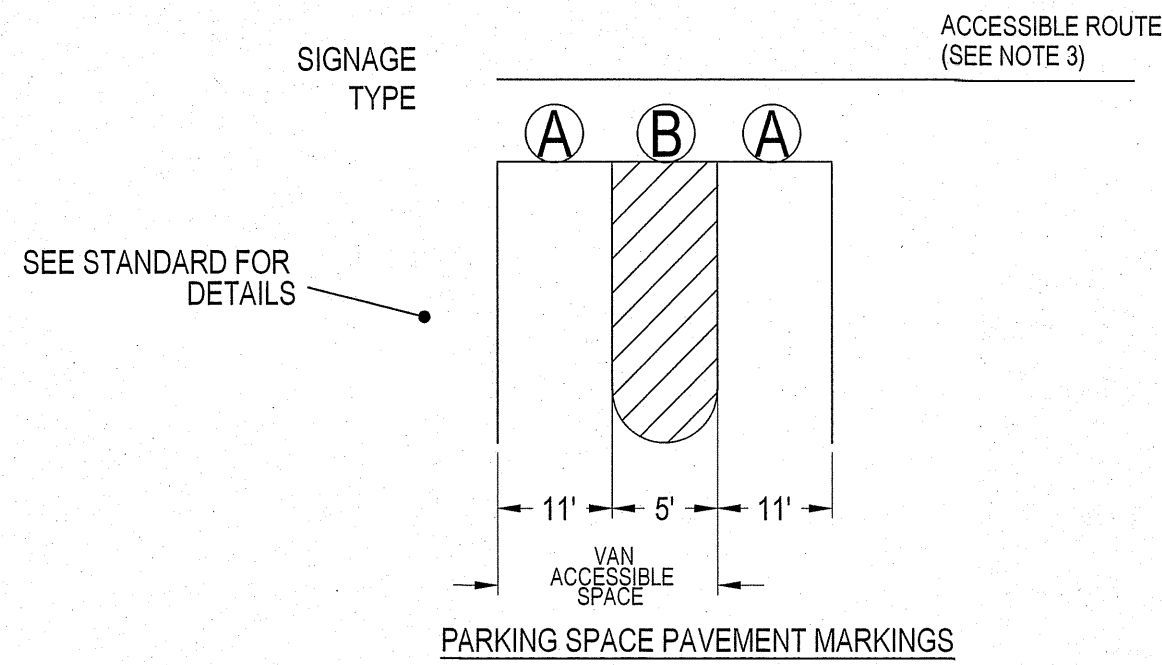
SHEET NO:
C7
OF: 8
JOB NO. **DOI** 24265



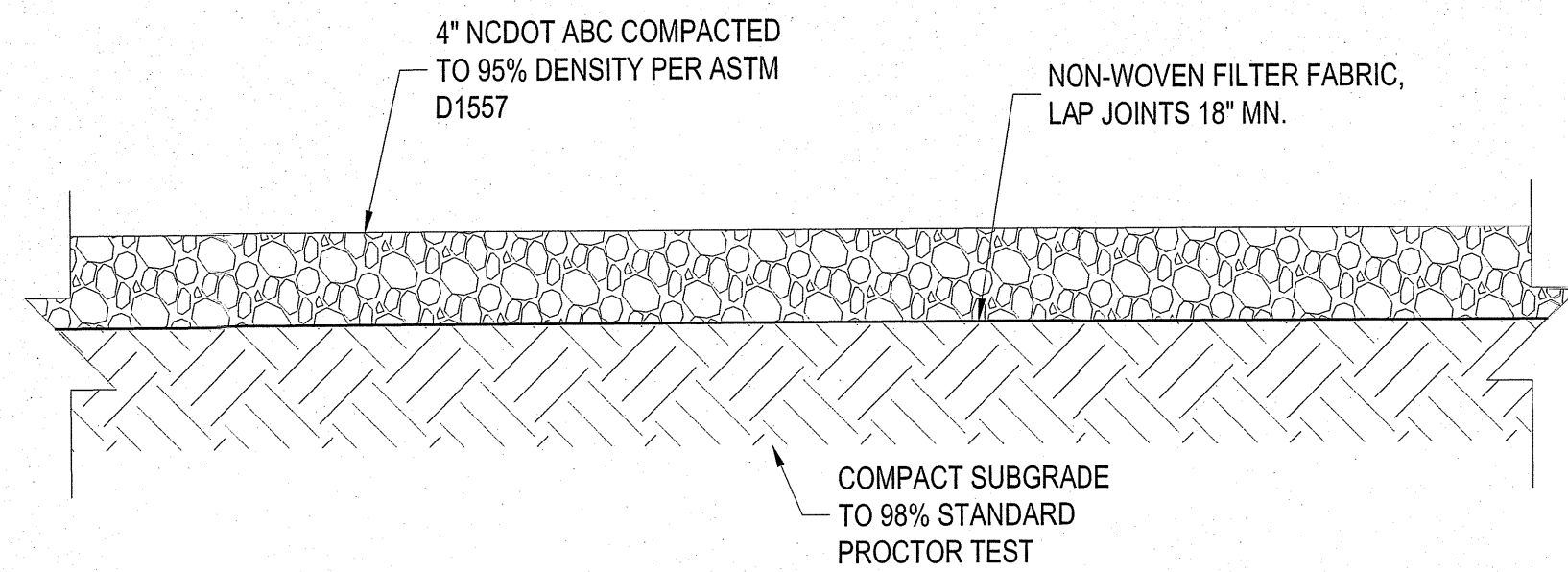
H.C. ACCESSIBLE SIGNAGE DETAILS
SCALE: NOT TO SCALE



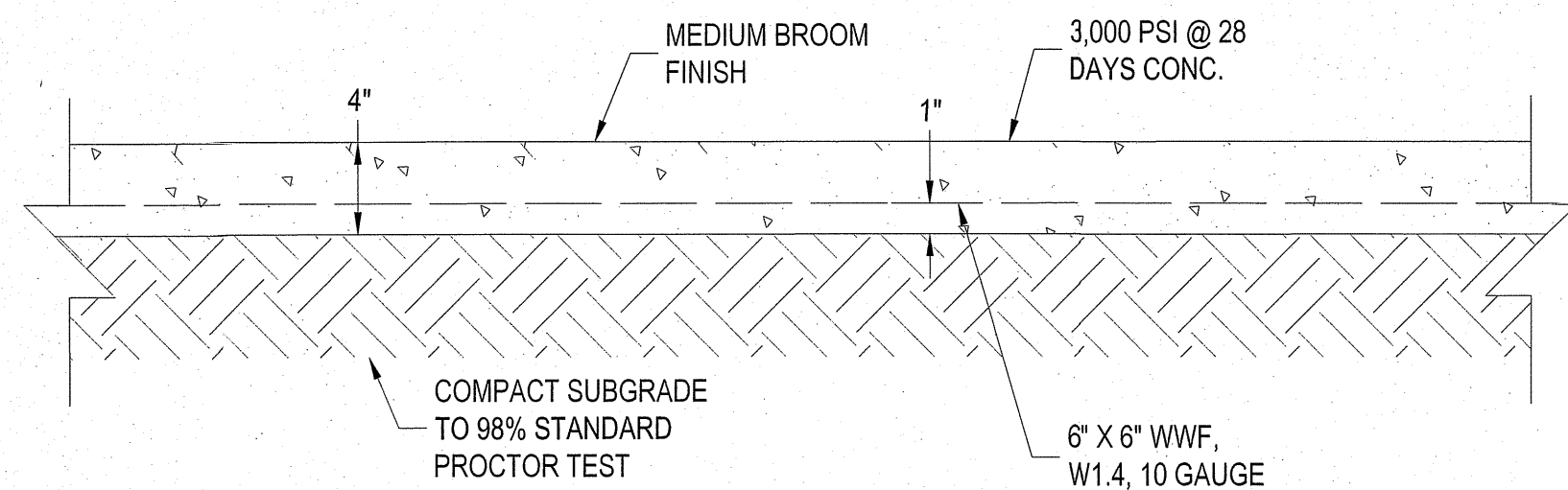
NOTES:
1. ALL 12"x18" ACCESSIBLE SIGNS (R7-8 & R7-1) 1. SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (MUTCD). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
2. REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) AND U.S. DEPARTMENT OF TRANSPORTATION
3. IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMPS ARE REQUIRED AT LOADING ZONE AREA.



HANDICAP SIGNAGE DETAILS
SCALE: NOT TO SCALE

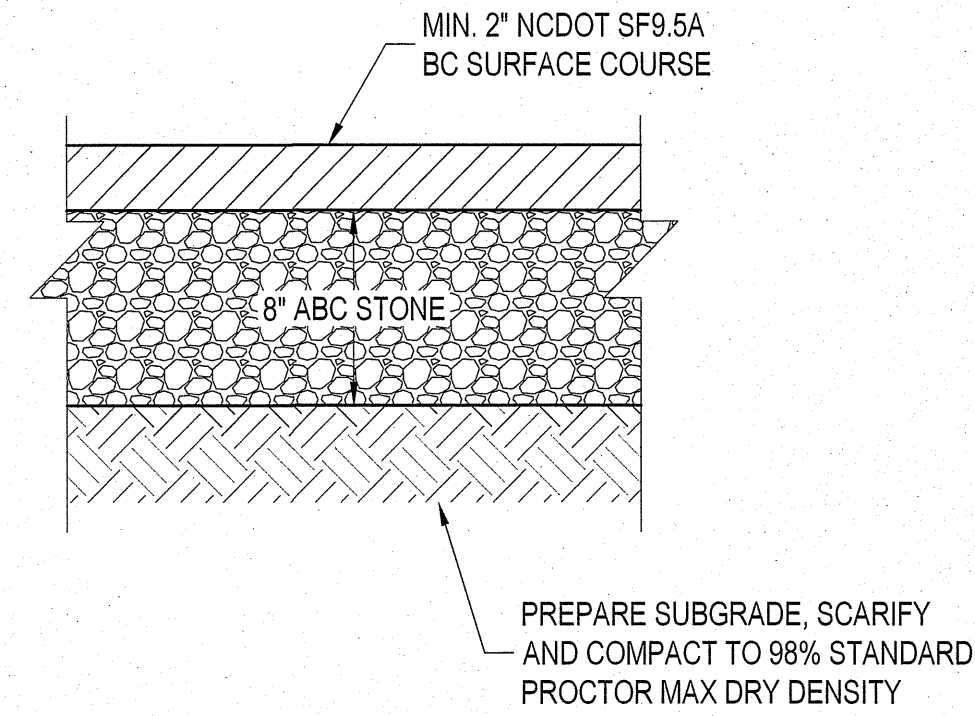


GRAVEL DRIVEWAY SECTION
SCALE: NOT TO SCALE



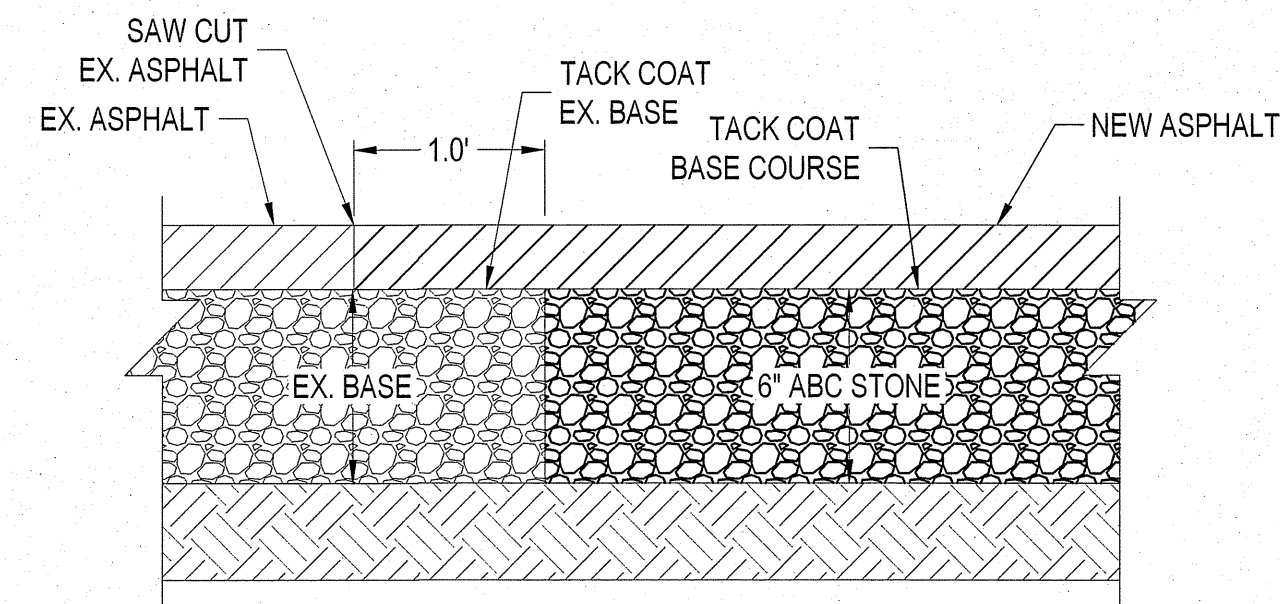
NOTE: CONSTRUCTION JOINTS SHALL BE LOCATED AT 12' O.C. MAX AND EXPANSION JOINTS AT 40' O.C. MAX.

CONCRETE SIDEWALK SECTION
SCALE: NOT TO SCALE

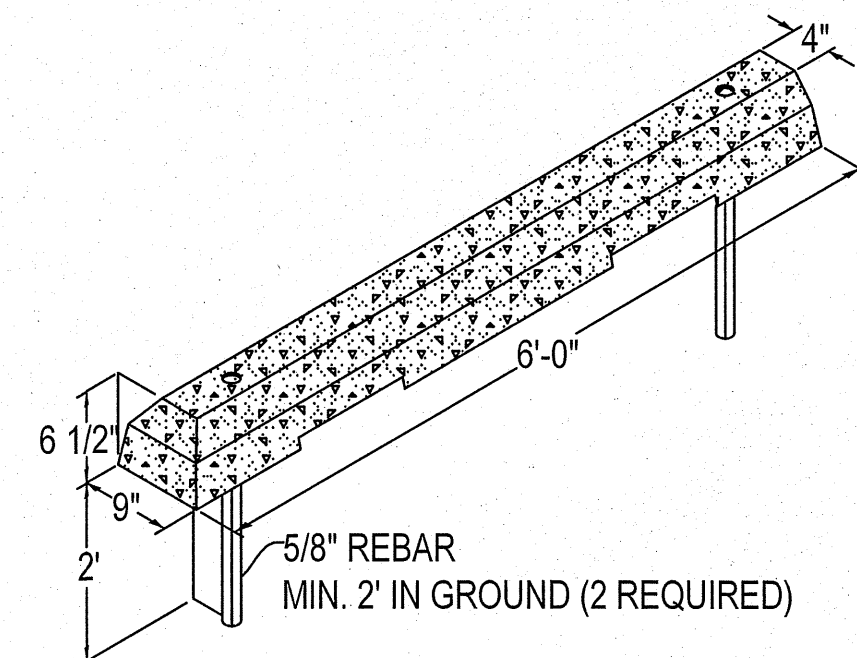


NOTES:
1. PROVIDE AGGREGATE BASE COURSE IN ACCORDANCE WITH NCDOT SPECIFICATIONS, SECTION 520. COMPACT TO 100% DENSITY IN ACCORDANCE WITH AASHTO T-99.
2. PROOF ROLLING MAY BE USED IN LIEU OF DENSITY TESTING USE 50 TON DUMP TRUCK OR HEAVY ROLLER. PROOF ROLL IN PRESENCE OF THE ENGINEER. AREAS TOO SMALL TO ALLOW PROOF ROLLING SHALL BE TESTED AS REQUIRED IN PRESENCE OF ENGINEER.

ASPHALT PAVEMENT - PARKING BAYS
SCALE: NOT TO SCALE



ASPHALT SAW CUT, TYPICAL
SCALE: NOT TO SCALE



PRECAST CONCRETE WHEEL STOP
SCALE: NOT TO SCALE

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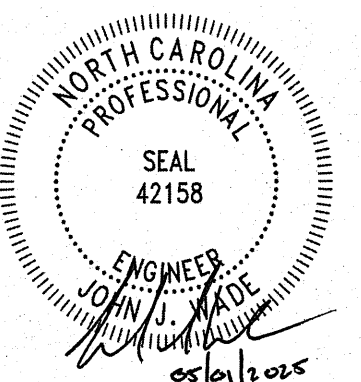
PROJECT MANAGER: JJW
DESIGNED: JJW
DRAWN BY: JST
CHECKED: JJW
SCALE: AS SHOWN
DATE: 01/27/2025

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North Carolina Certification No. C-1509
OWNER:

COLUMBUS COUNTY
PROJECT:
COLUMBUS COUNTY SHERIFF'S OFFICE
817 WASHINGTON STREET
WHITEVILLE, NORTH CAROLINA 28472

COLUMBUS COUNTY, NC
DRAWING:
DETAILS



NO.	REVISION	DATE	BY
1	WATERLINE REVISIONS	01/29/25	JJW
2	PARKING AND DETAILS	03/26/25	JJW
3	BUILDING AND FIRE CODE COMMENTS	04/30/25	JJW

SHEET NO:
C8
OF: 8
JOB NO. **DOI** 24265

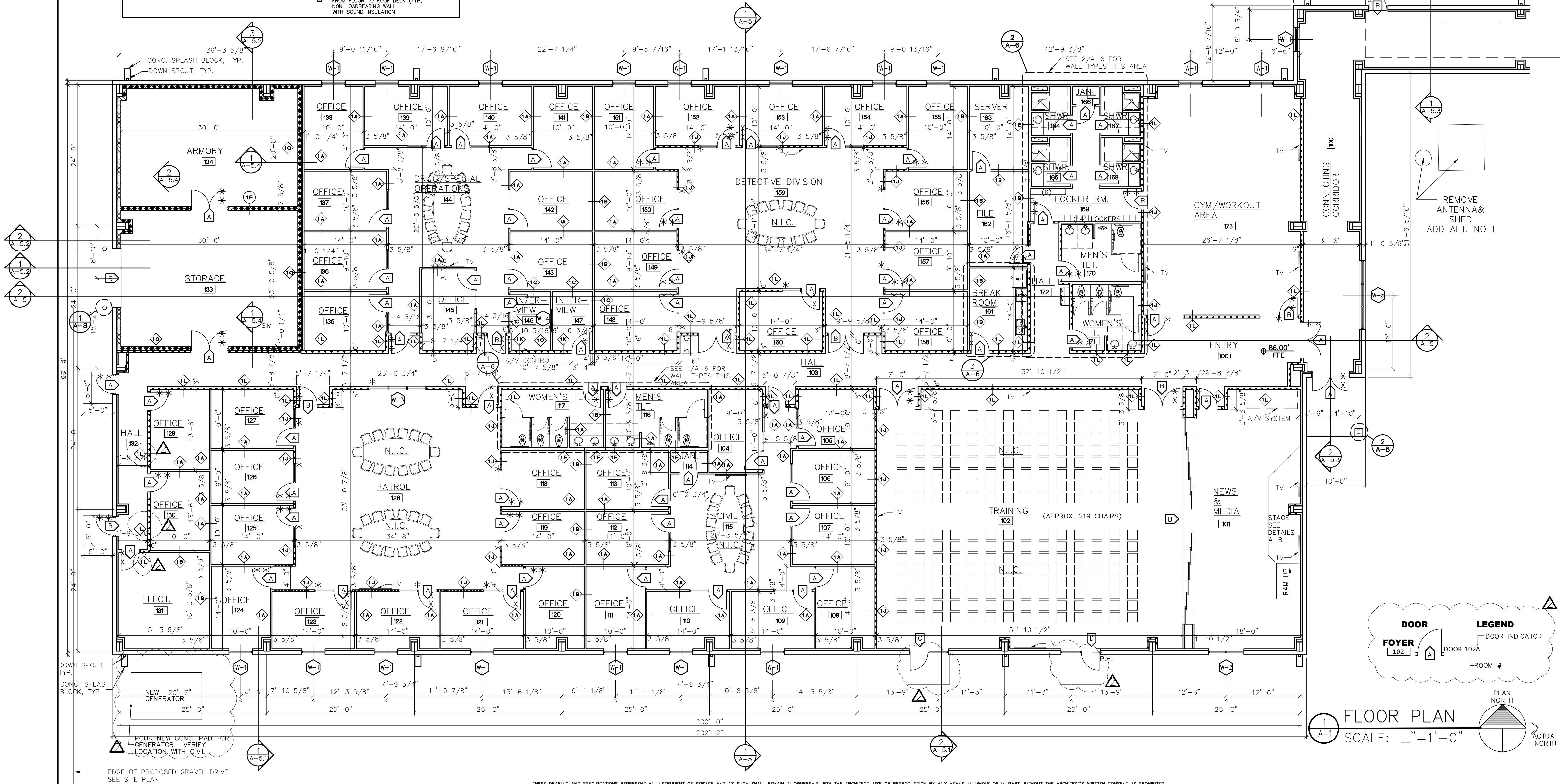
WALL TYPE LEGEND

3 5/8" METAL STUDS 16" O.C. INTERIOR W/ 5/8" GWB EACH SIDE FROM FLOOR TO 6" ABOVE CEILING (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION 3 5/8" METAL STUDS 16" O.C. INTERIOR W/ 5/8" GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION 3 5/8" METAL STUDS 16" O.C. INTERIOR W/ 5/8" GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION 6" METAL STUDS 16" O.C. INTERIOR W/ 5/8" GWB EACH SIDE FROM FLOOR TO 6" ABOVE CLG. (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION 6" METAL STUDS 16" O.C. INTERIOR W/ 5/8" GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION 8" CMU NON LOADBEARING WALL FROM FLOOR TO ROOF DECK ABOVE (TYP.)	8" CMU (2 HR. RATED) NON LOADBEARING WALL FROM FLOOR TO ROOF DECK ABOVE (TYP.) AND 3 5/8" METAL STUDS 16" O.C. INTERIOR W/ 2X 5/8" GWB EACH SIDE FROM FLOOR TO ROOF DECK ABOVE (TYP.) OFFICE OR HALL SIDE WITH SOUND INSULATION (2HR-RATED) 3 5/8" METAL STUDS 16" O.C. INTERIOR W/ 2X 5/8" GWB EACH SIDE FROM FLOOR TO 6" ABOVE CEILING (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION (2HR-RATED) 3 5/8" METAL STUDS 16" O.C. INTERIOR W/ 2X 5/8" GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION (2HR-RATED) 6" METAL STUDS 16" O.C. INTERIOR W/ 2X 5/8" GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION (2HR-RATED) 6" METAL STUDS 16" O.C. INTERIOR W/ 2X 5/8" GWB EACH SIDE FROM FLOOR TO ROOF DECK (TYP.) NON LOADBEARING WALL WITH SOUND INSULATION
--	--

* 90 MINUTE RATED GLAZING AND FRAMES
** 90 MINUTE RATED DOOR AND FRAMES

NOTE:

STENCIL RATED WALLS EVERY 15'-30' IN MIN. 2 INCH LETTERING, INDICATE PURPOSE OF WALL. PER 2018 NC BUILDING CODE, SECTION 703.7



Coastal
Architecture

• Architectural
Design
• Planning
• Interiors



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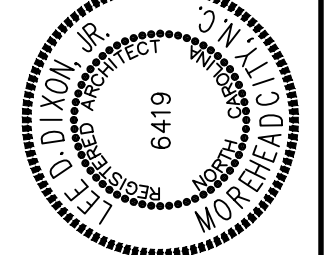
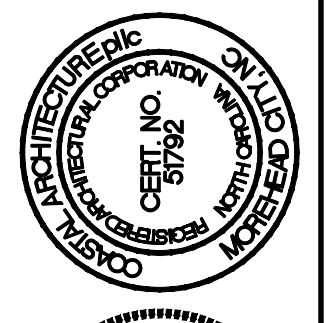
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28557

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COLUMBUS COUNTY
SHERIFF'S OFFICE
WHITEVILLE, NORTH CAROLINA

DOI



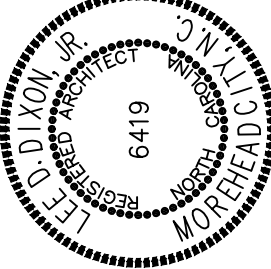
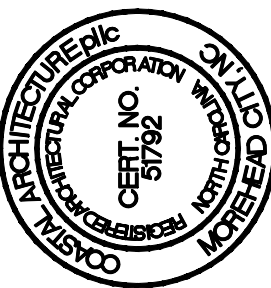
FLOOR PLAN

23029

ISSUED: 12.12.2024
DWG BY: MSG
CKD BY: LDD
REVISIONS
02 03/17/2025

SHEET NO.
A-1
OF

COLUMBUS COUNTY
SHERIFF'S OFFICE
WHITEVILLE, NORTH CAROLINA



ROOF PLAN

23029

ISSUED: 12.12.2024

DWG BY: MSG

CKD BY: LDD

REVISIONS

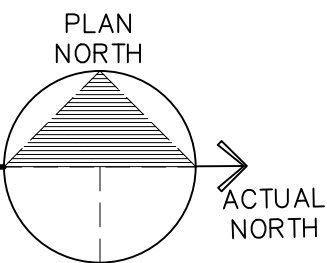
SHEET NO.

A-1.1
OF



GUTTER AND DOWNSPOUT
DESIGN BY PEMB

1 ROOF PLAN
A-1.1 SCALE: _"=1'-0"



LEGEND:

C = SECURITY CAMERA
F = CARD SWIPE/ FOB
TV= WALL MOUNT TV

☒ CEILING LIGHT -SEE ELECTRICAL

☒ RETURN- SEE ELECTRICAL

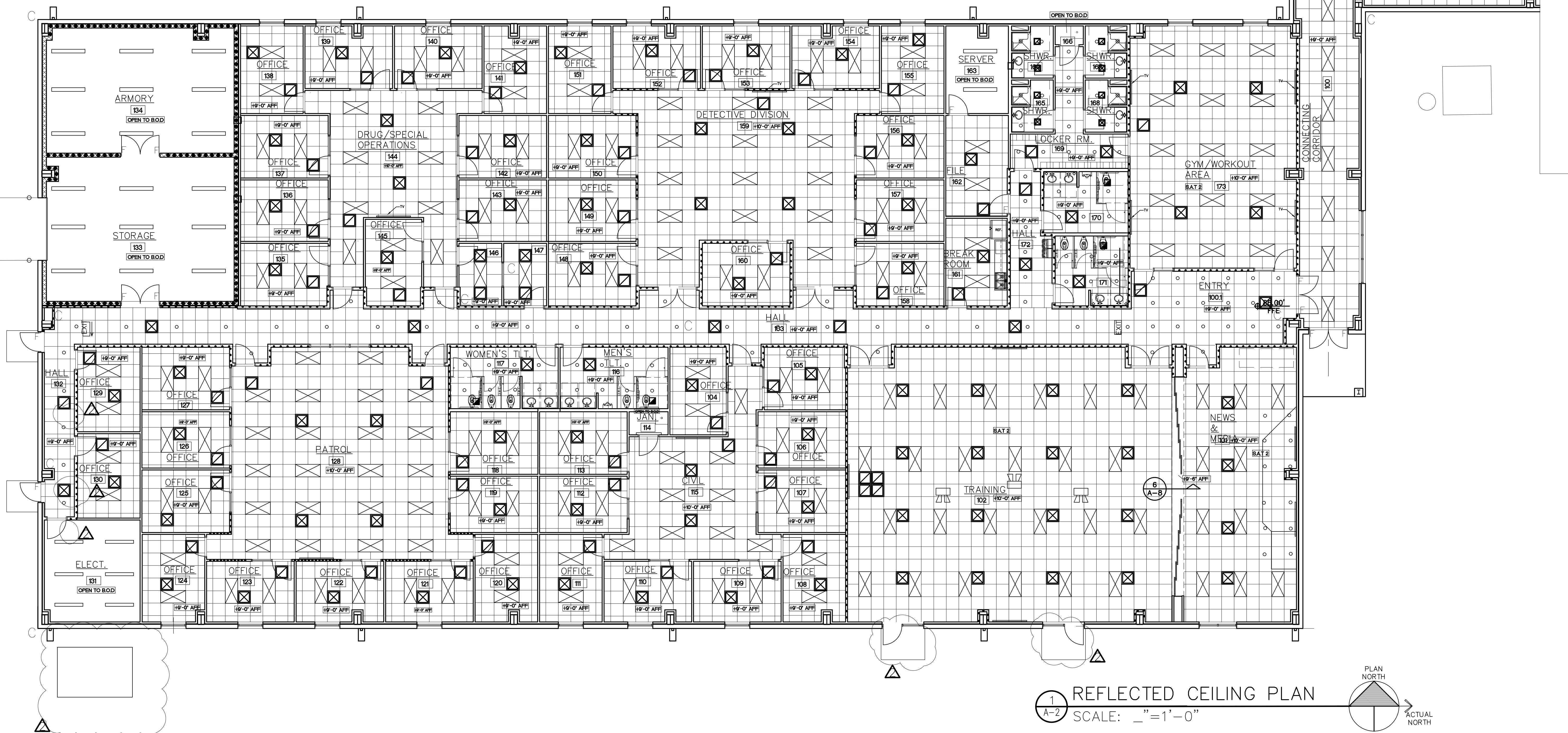
☒ DIFFUSER- SEE ELECTRICAL

— HANGING LIGHT- SEE ELECTRICAL

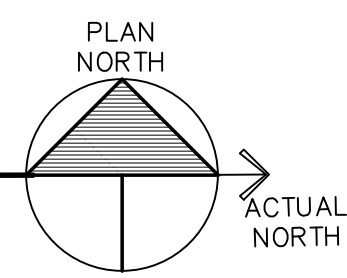
GENERAL NOTE:

REFER TO ELECTRICAL AND MECHANICAL FOR
EXACT LOCATION AND TYPE, TYP.

WITH SOUND INSULATION



1 REFLECTED CEILING PLAN
A-2 SCALE: 1/4"=1'-0"



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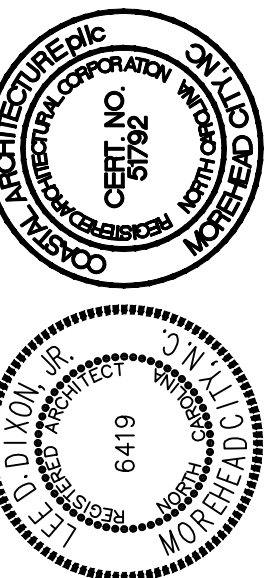
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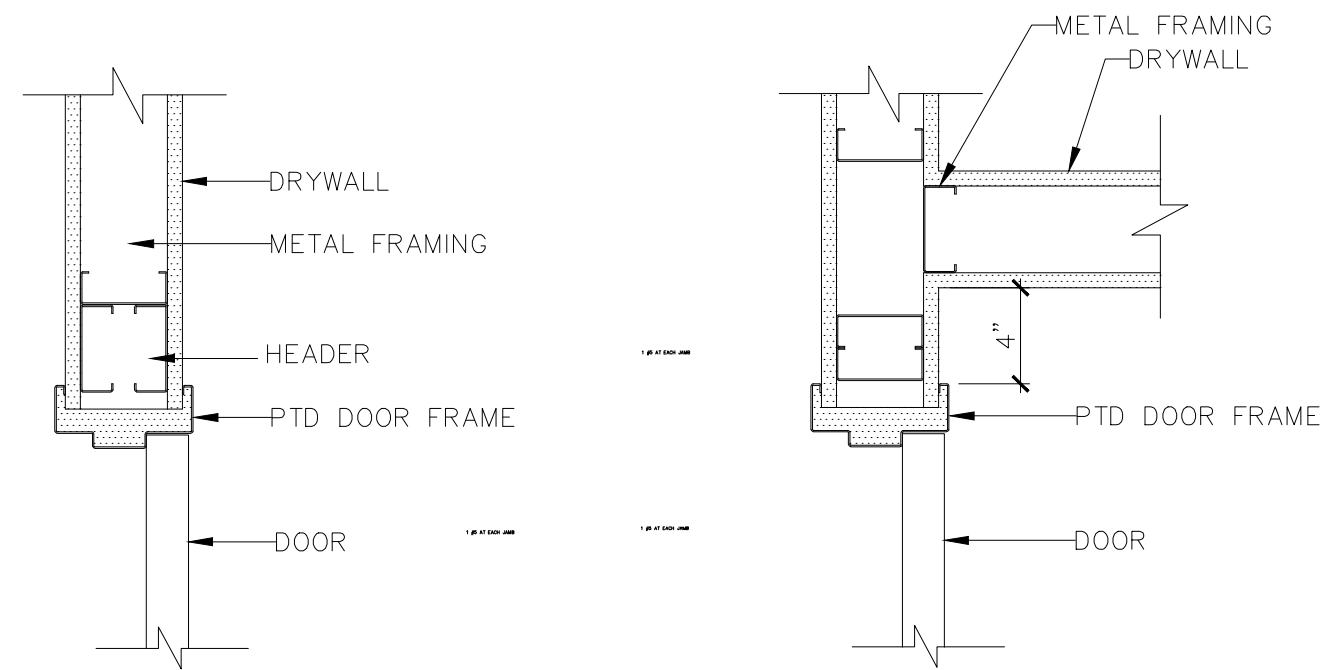
REFLECTED CEILING
PLAN

23029

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REVISIONS

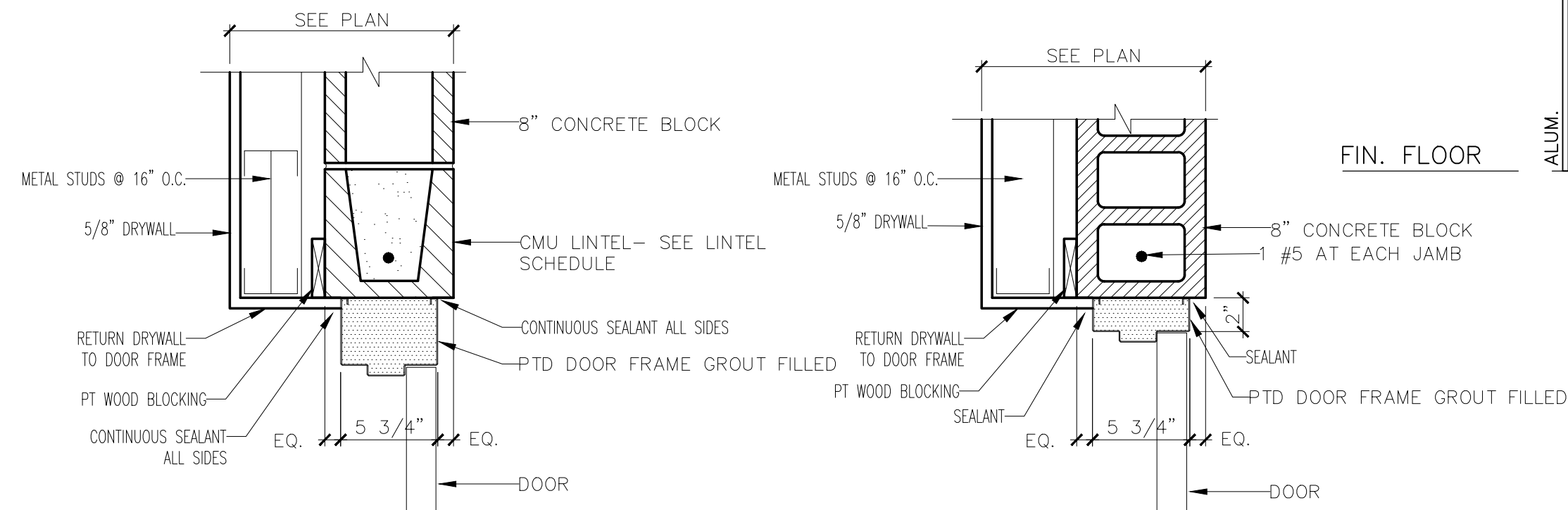
SHEET NO.
A-2
OF



HEAD 3

JAMB 3

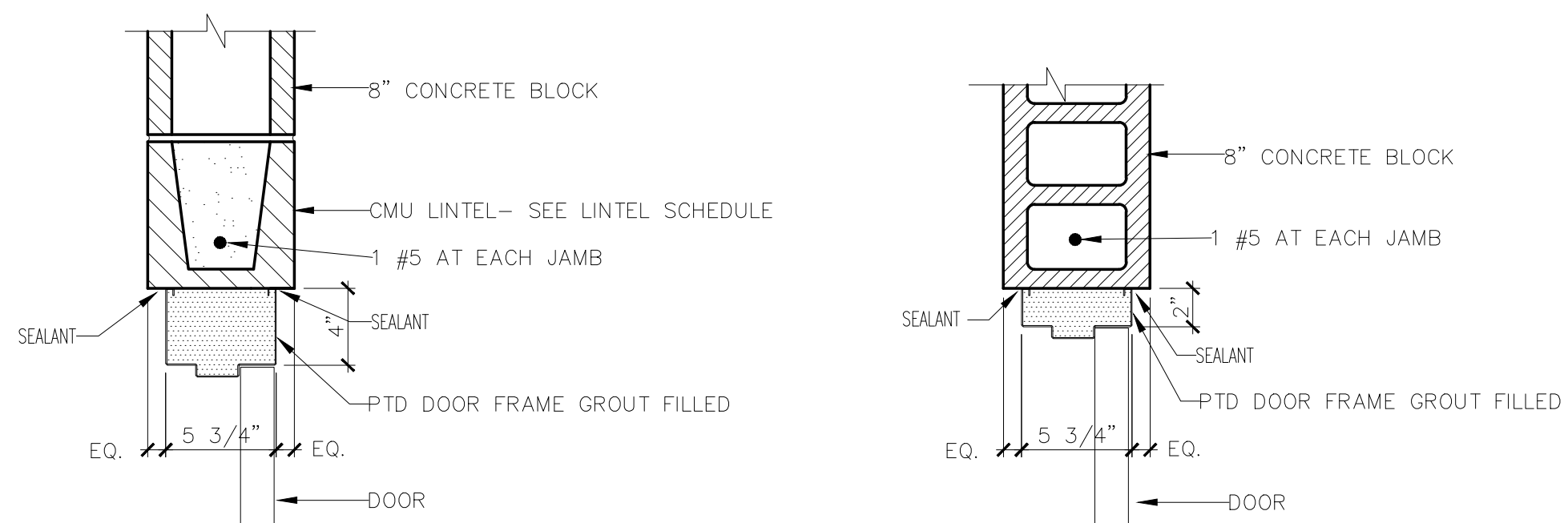
6 HEAD AND JAMB (DW)
A-3.1 SCALE: 1 1/2"=1'-0"



HEAD 2

JAMB 2

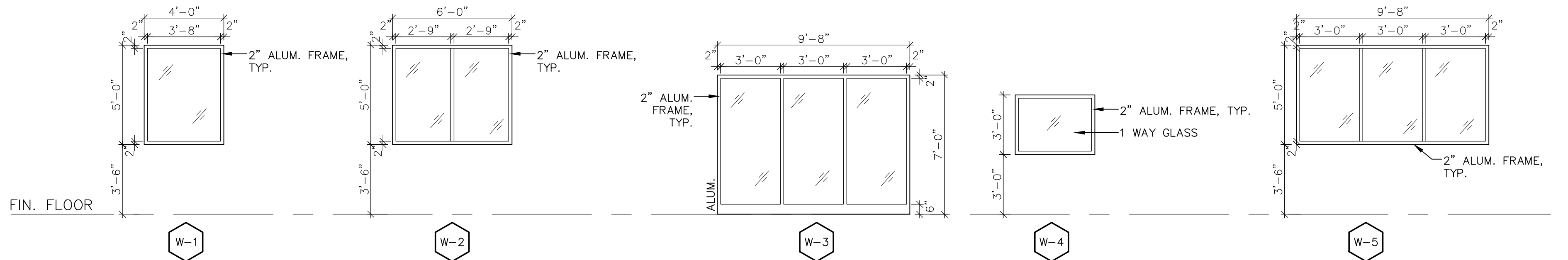
5 HEAD AND JAMB (CMU & DW)
A-3.1 SCALE: 1 1/2"=1'-0"



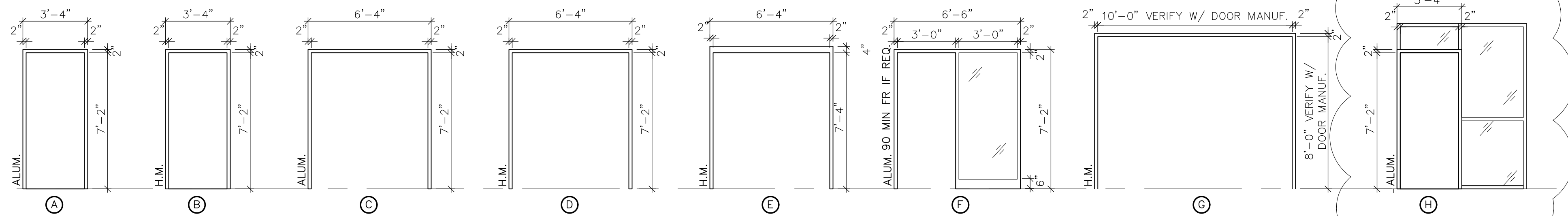
HEAD 1

JAMB 1

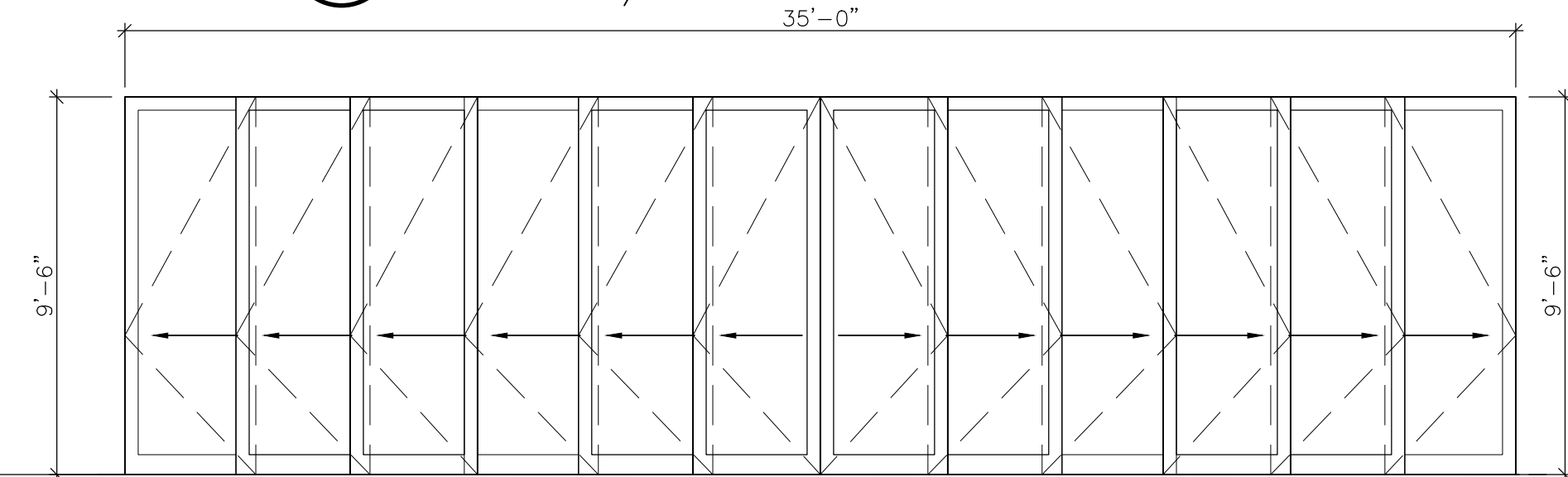
4 HEAD AND JAMB (CMU)
A-3.1 SCALE: 1 1/2"=1'-0"



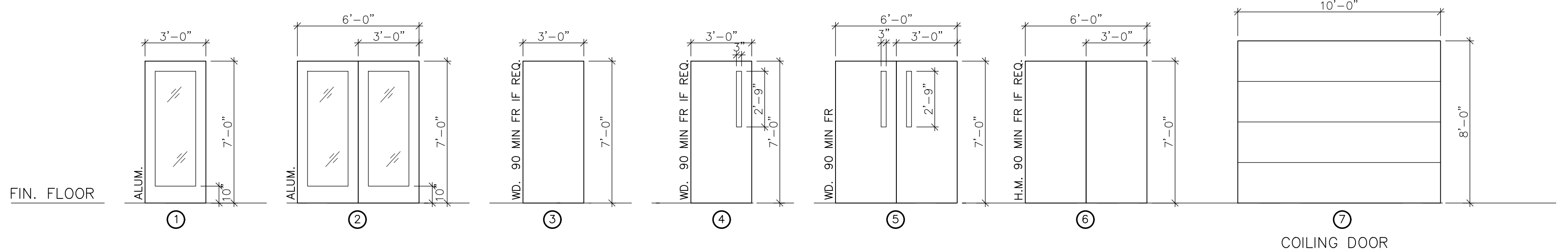
3 WINDOW ELEVATIONS
A-3.1 SCALE: 1/4"=1'-0"



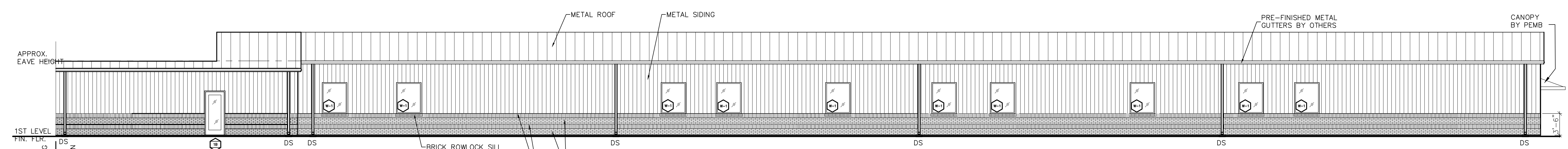
2 DOOR FRAME ELEVATIONS
A-3.1 SCALE: 1/4"=1'-0"



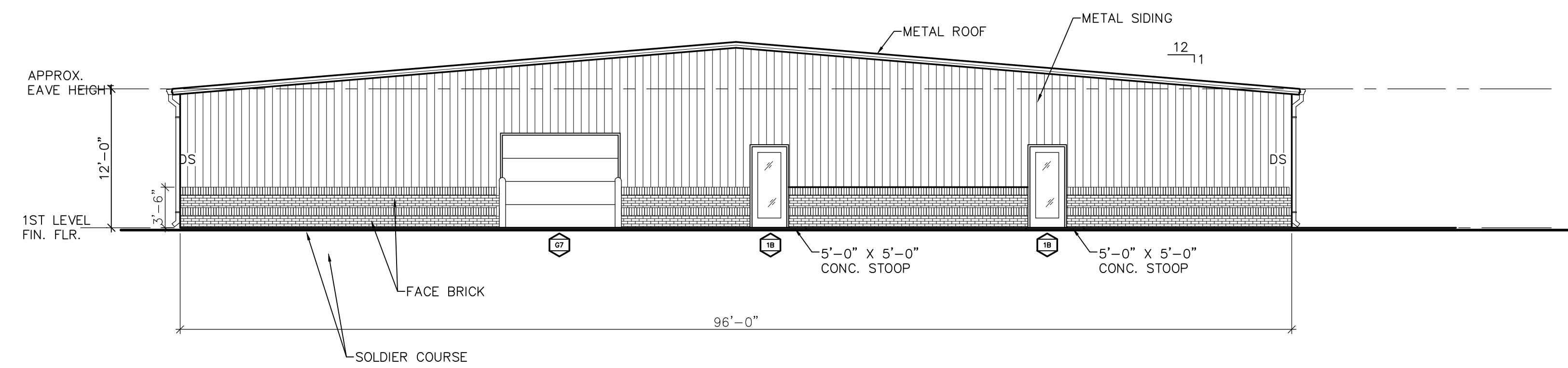
RAYDOOR 2 SLIDING POCKET WALL (6) PANEL
8 PREMIUM LAMINATE DOOR FRAME 2\"/>



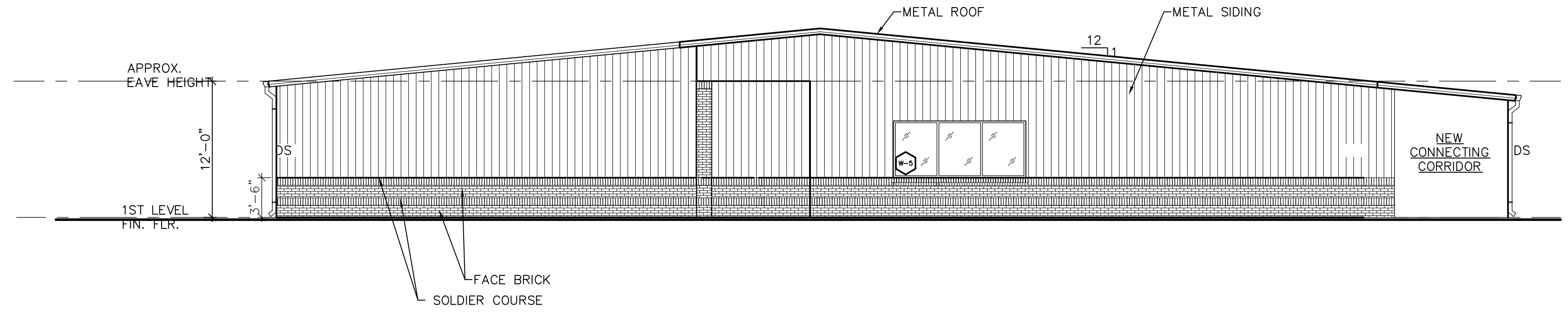
1 DOOR ELEVATIONS
A-3.1 SCALE: 1/4"=1'-0"



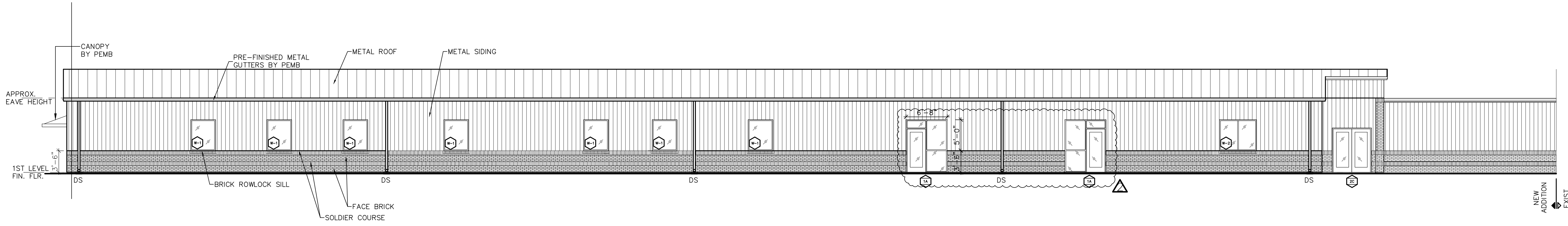
4 WEST ELEVATION
A-4 SCALE: 1/8"=1'-0"



3 SOUTH ELEVATION
A-4 SCALE: 1/8"=1'-0"



2 NORTH ELEVATION
A-4 SCALE: 1/8"=1'-0"



1 EAST ELEVATION
A-4 SCALE: 1/8"=1'-0"

WINDOW GLAZING- REFER TO A-3/A-3.1
DOOR TYPE AND FRAME- REFER TO A-3/A-3.1

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ARCHITECTURAL CERT. NO. 5792
COLUMBUS COUNTY, NC

ARCHITECTURAL CERT. NO. 6419
COLUMBUS COUNTY, NC

EXTERIOR ELEVATIONS

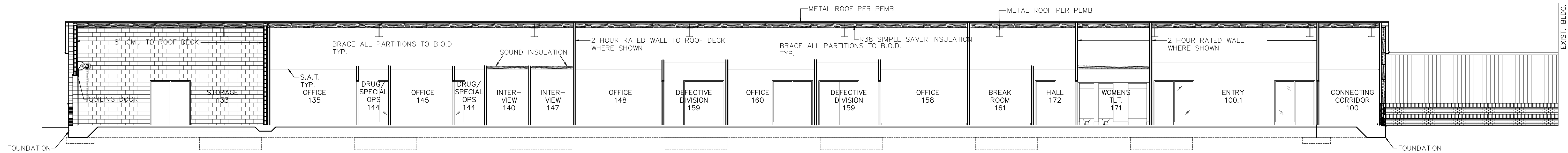
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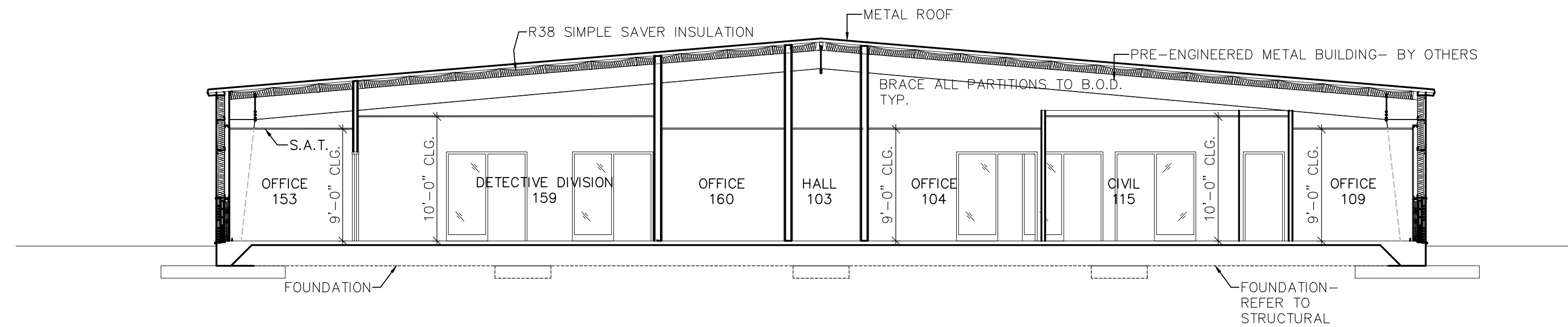
REVISIONS

NO.	DATE	DESCRIPTION
02	03/17/2025	

SHEET NO.
A-4
OF

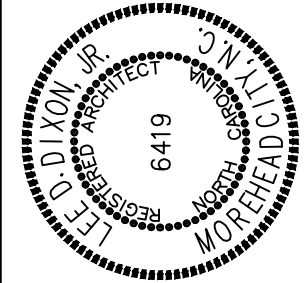
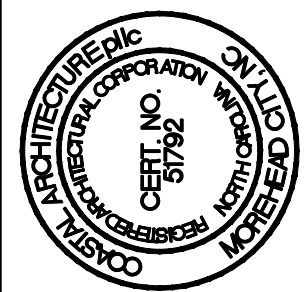


SECTION
A-5 SCALE: 1/8"=1'-0"



SECTION
A-5 SCALE: 1/8"=1'-0"

COLUMBUS COUNTY
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WALL SECTIONS

23029

ISSUED: 12.12.2024

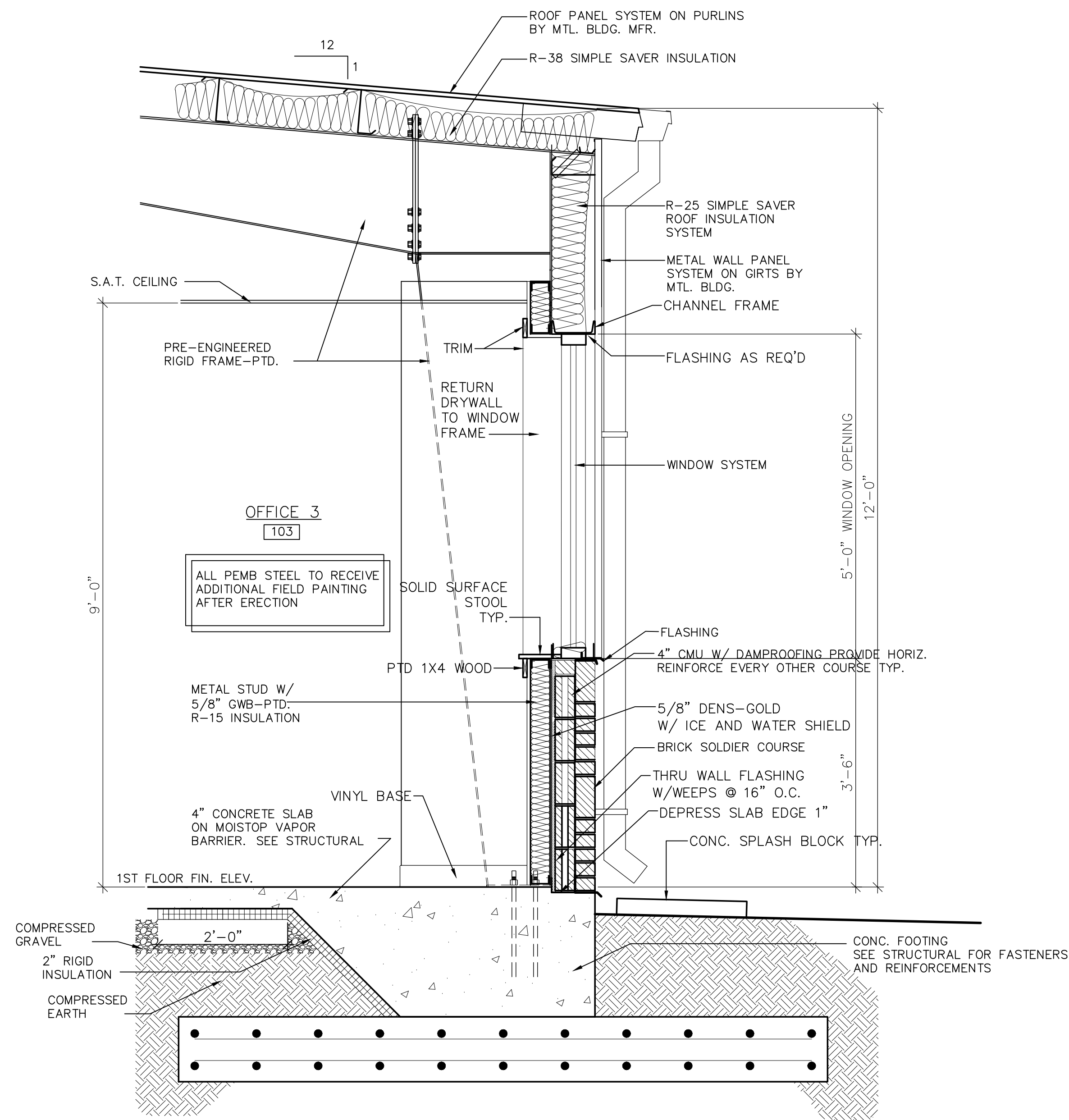
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CKD BY: LDD

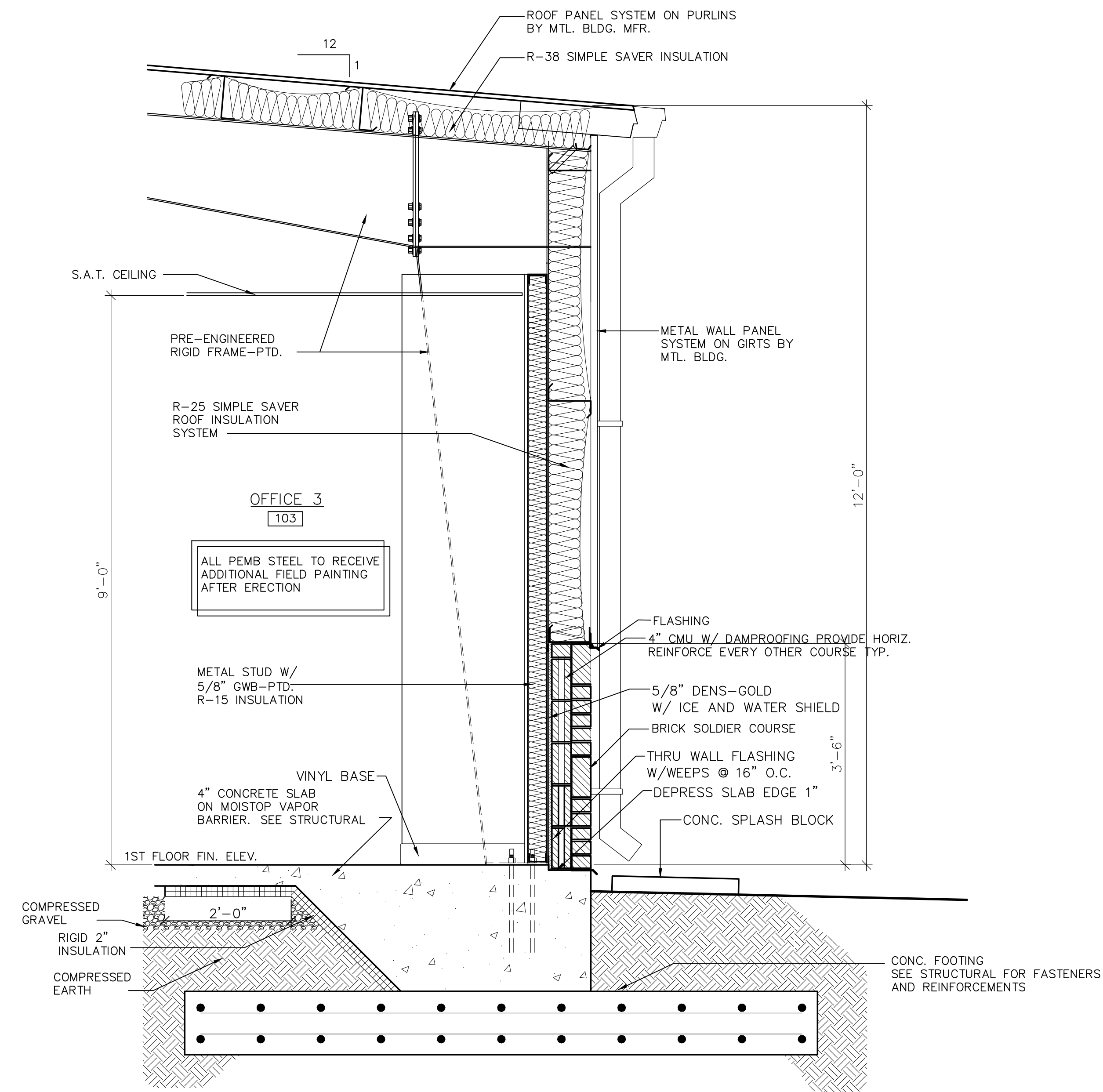
REVISIONS

SHEET NO.

A-5.1
OF

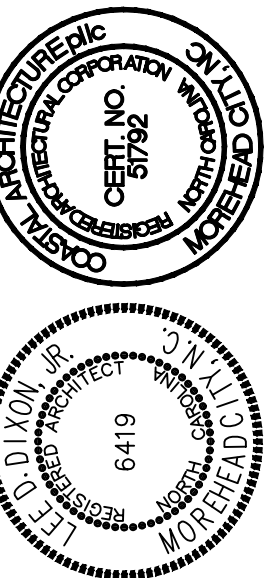


2 WALL SECTION
A-5.1 SCALE: 3/4"=1'-0"



1 WALL SECTION
A-5.1 SCALE: 3/4"=1'-0"

COLUMBUS COUNTY
SHERIFF'S OFFICE
WHITEVILLE, NORTH CAROLINA



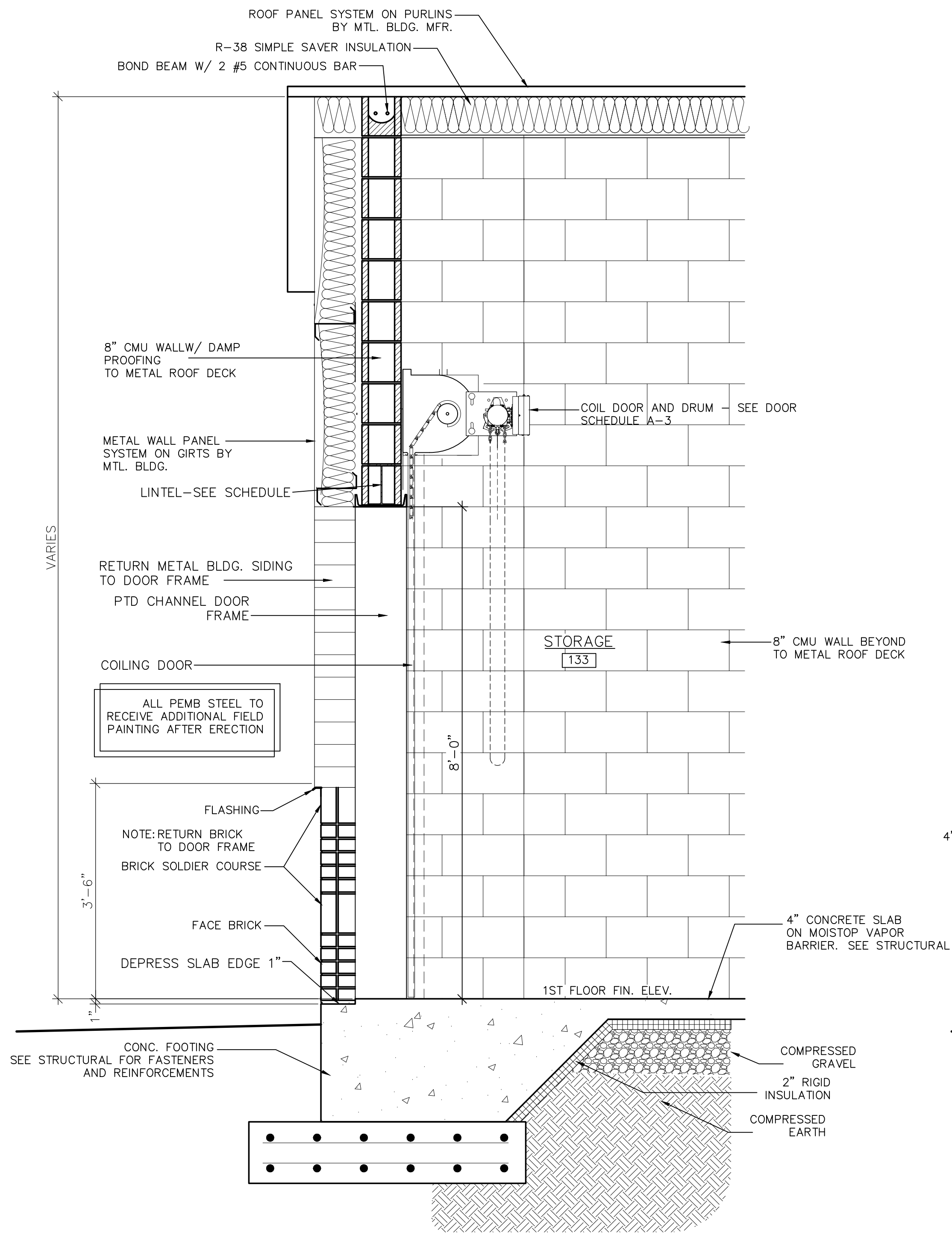
WALL SECTIONS

23029

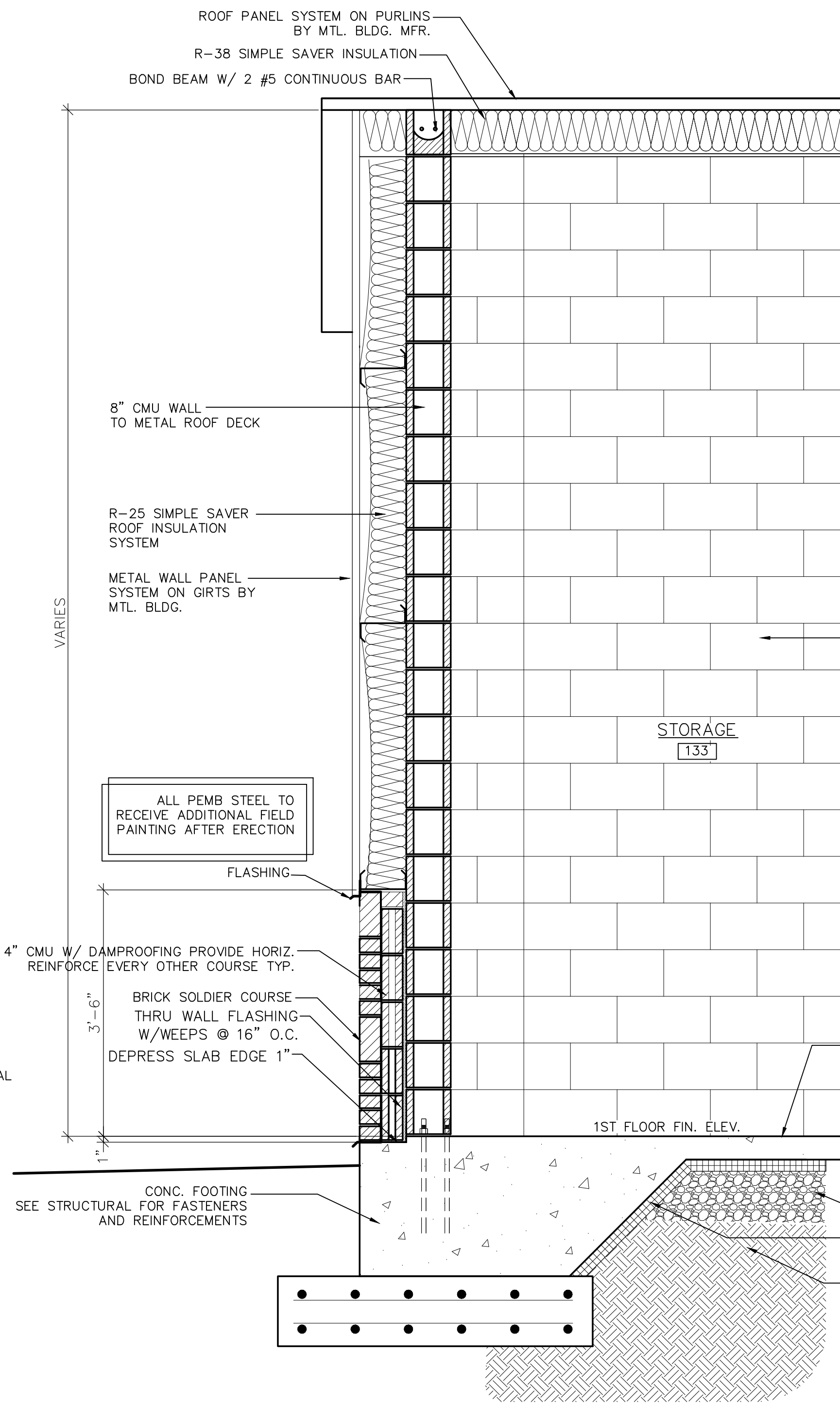
ISSUED: 12.12.2024
DWG BY: BLS
CKD BY: LDD

REVISIONS

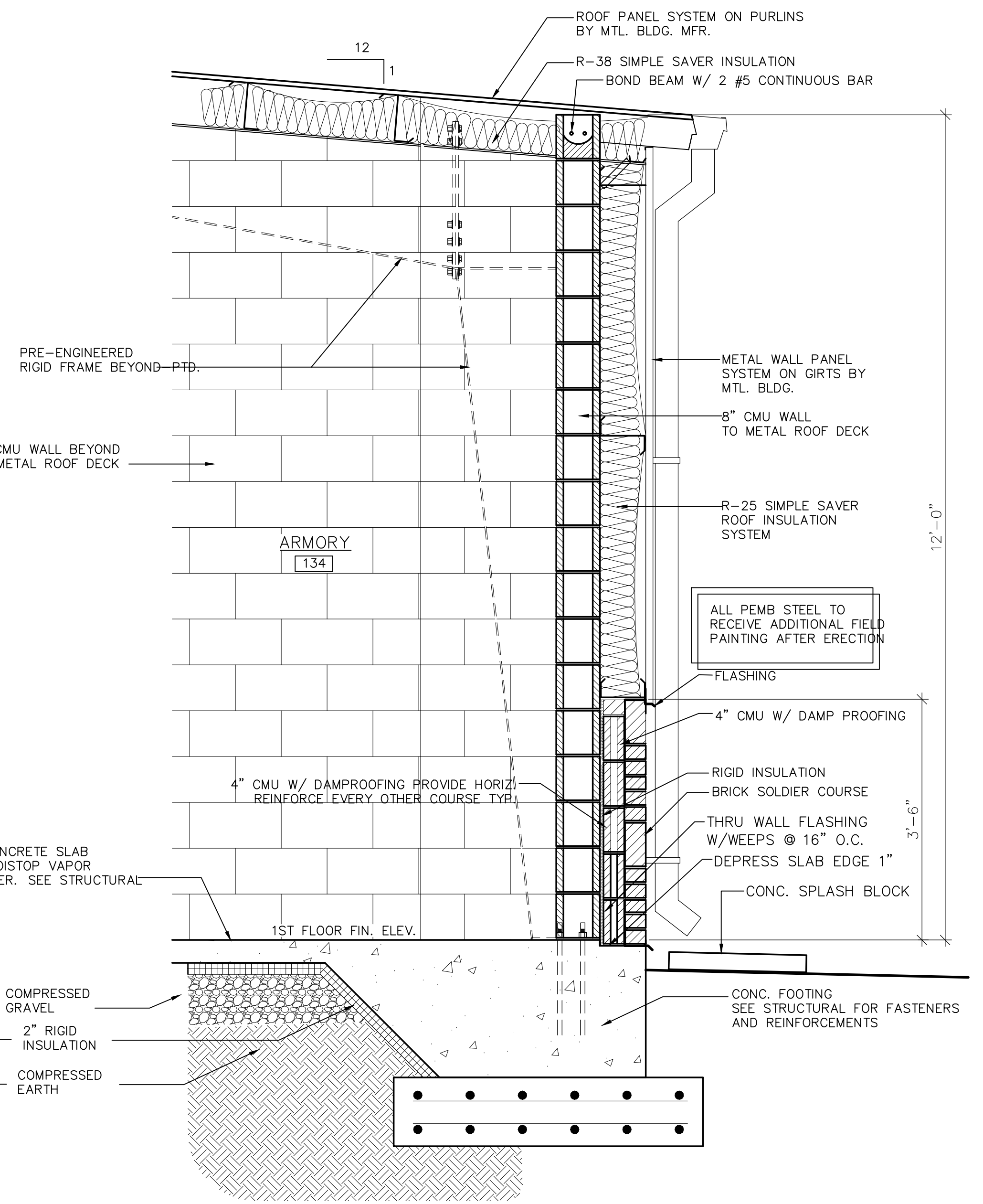
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A-5.2
OF



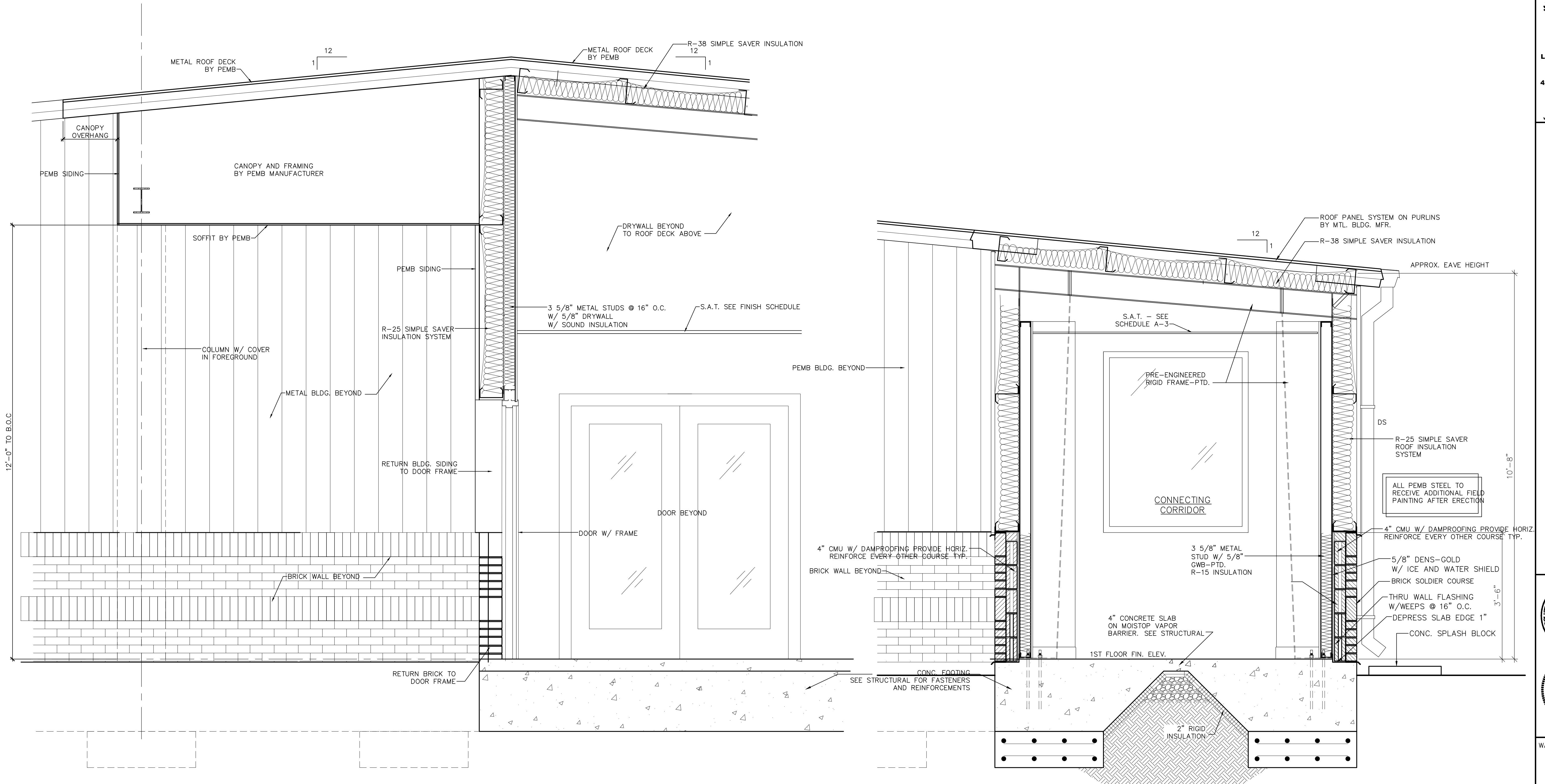
1 WALL SECTION
A-5.2 SCALE: 3/4"=1'-0"



2 WALL SECTION
A-5.2 SCALE: 3/4"=1'-0"



3 WALL SECTION
A-5.2 SCALE: 3/4"=1'-0"



2 WALL SECTION
A-5.3 SCALE: 3/4"=1'-0"

1 WALL SECTION
A-5.3 SCALE: 3/4"=1'-0"



- Architectural Design
- Planning
- Interiors



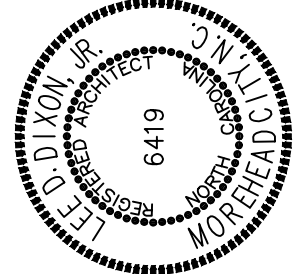
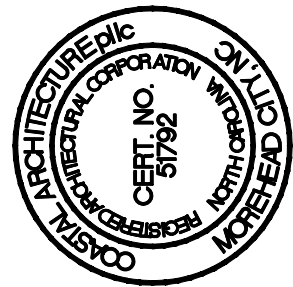
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WALL SECTIONS

23029

ISSUED: 12.12.2024

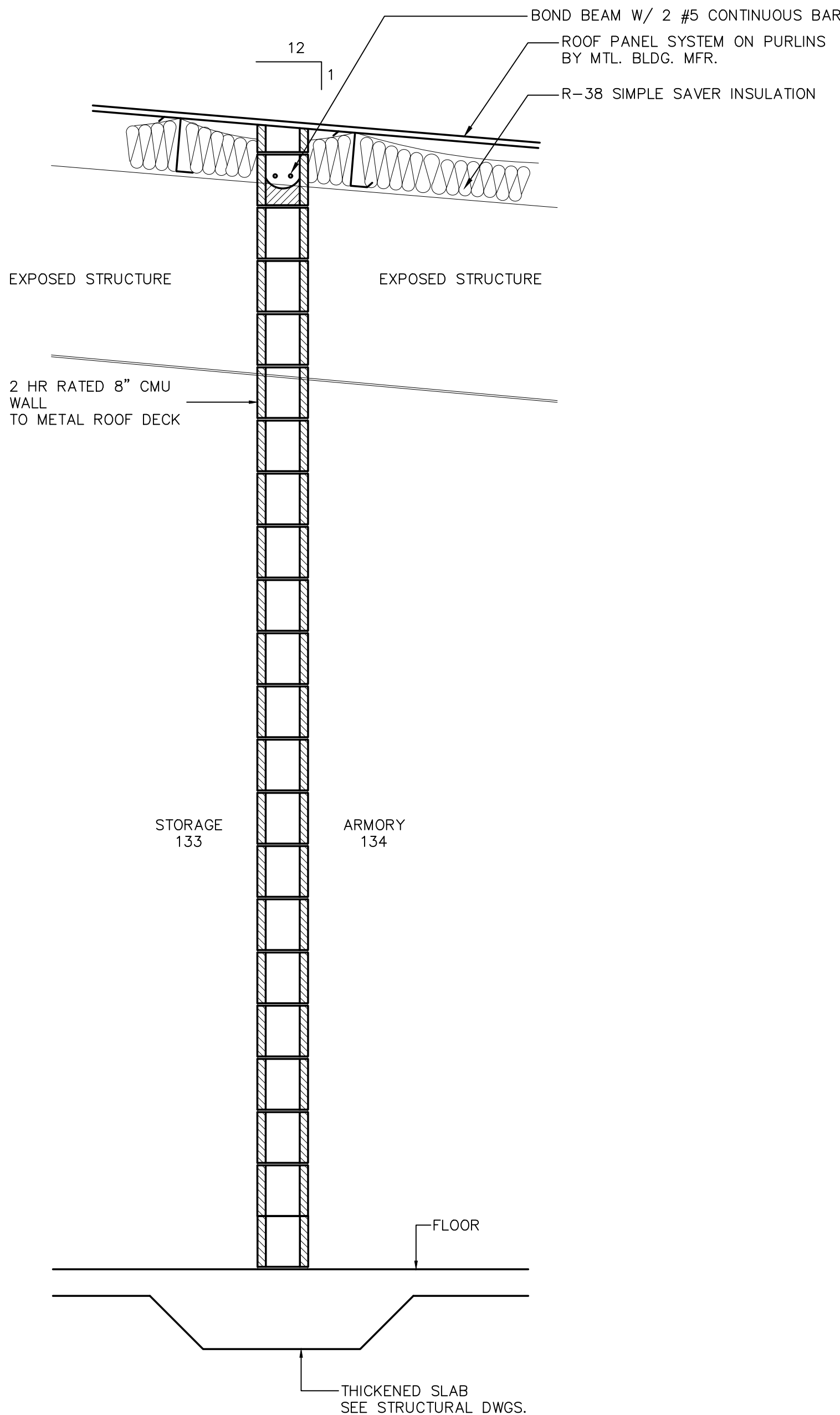
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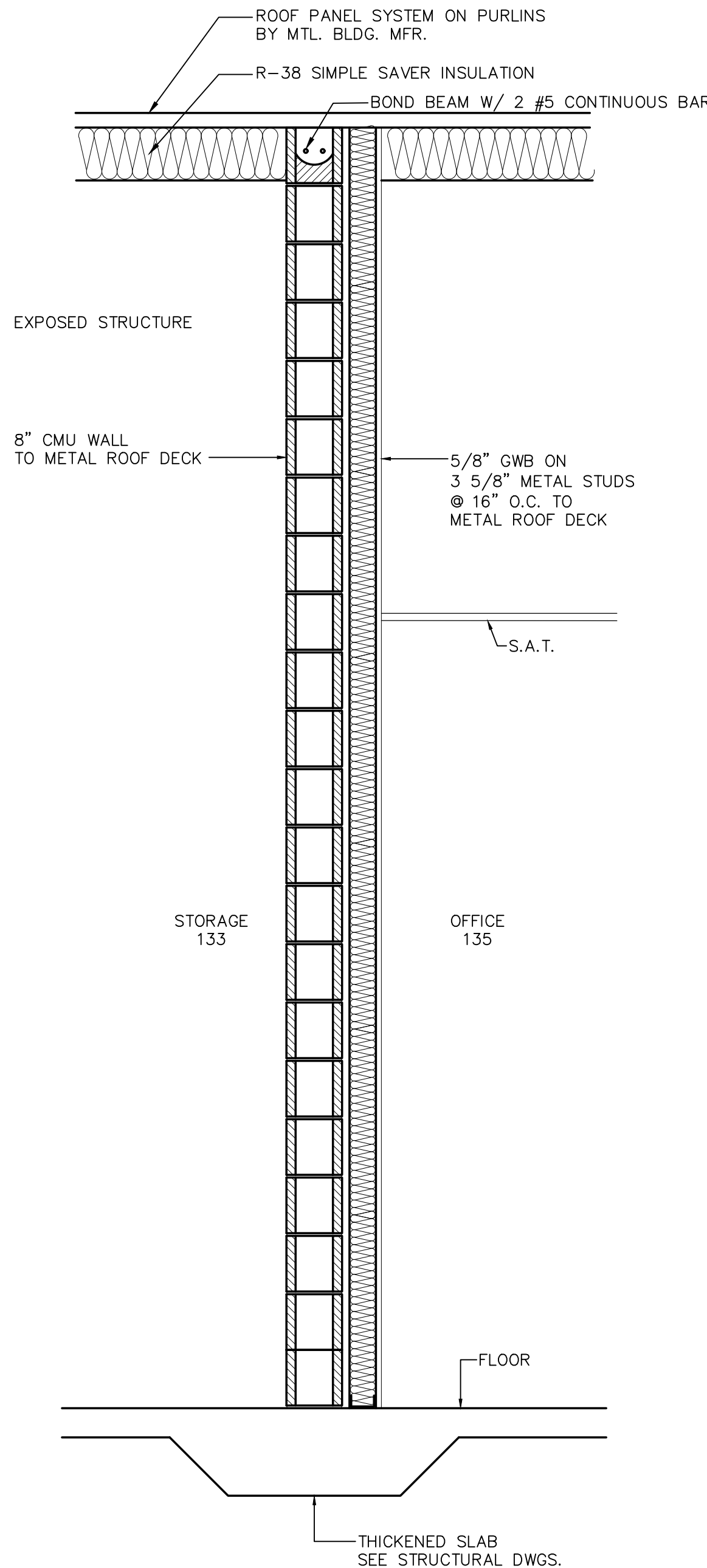
REVISIONS

SHEET NO.

A-5.4
OF



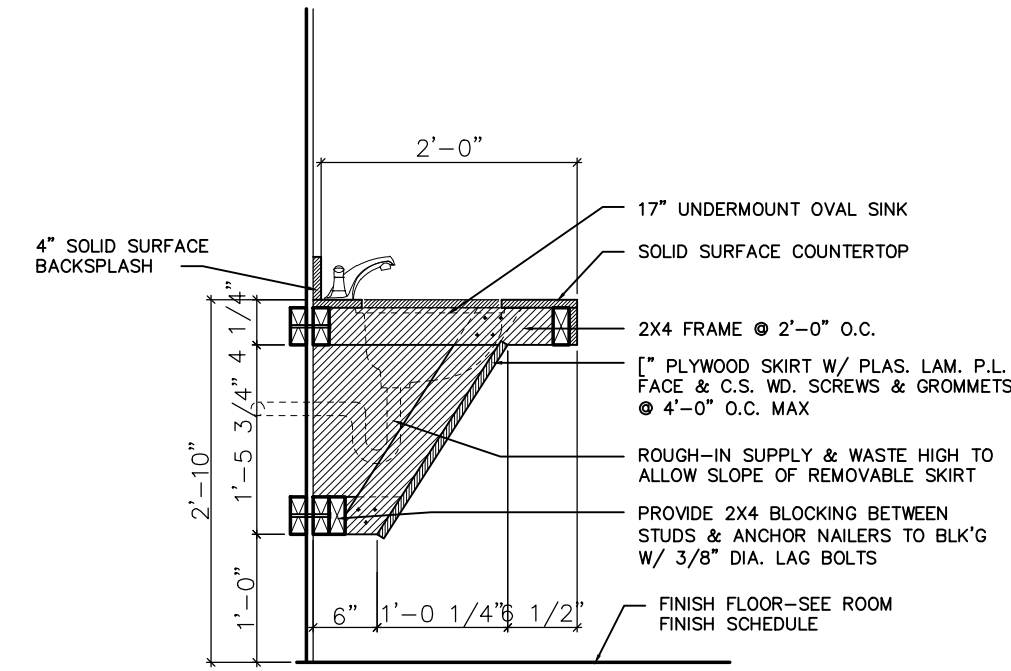
2 WALL SECTION
A-5.4 SCALE: 3/4"=1'-0"



1 WALL SECTION
A-5.4 SCALE: 3/4"=1'-0"

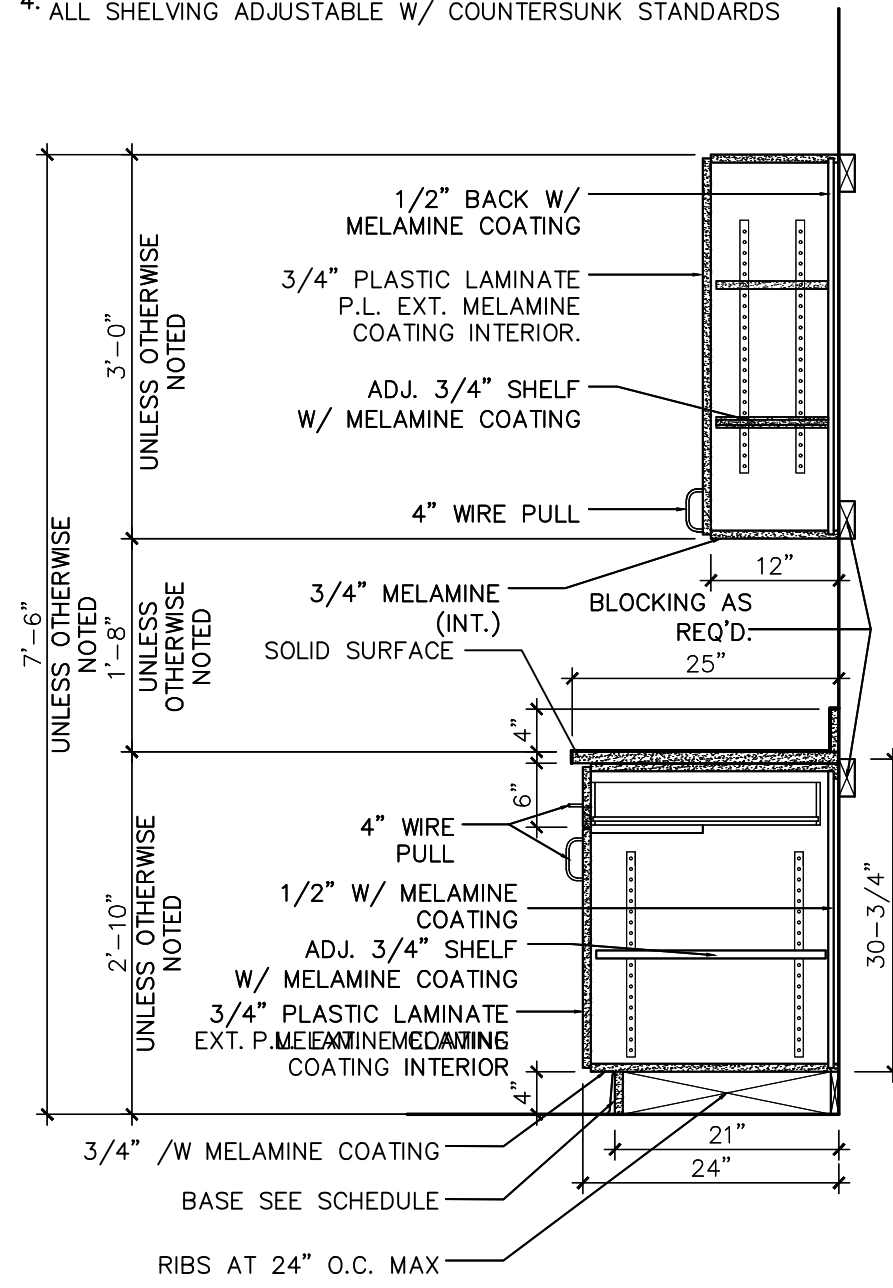
TOILET ACCESSORIES SCHEDULE			
MARK	ITEM	MT.HT.	REMARKS
TA-1	FRAMELESS MIRROR 5'-6"W X 3'-6"H	3'-4"	HT. TO BOTTOM OF MIRROR
TA-2	FRAMELESS MIRROR 5'-0"W X 3'-6"H	3'-4"	HT. TO BOTTOM OF MIRROR
TA-3	TOILET TISSUE DISPENSER	3'-4"	HT. TO TOP OF DISPENSER
TA-4	PAPER TOWEL DISPENSER B-9262	4'-0" MAX	HT. TO BOTTOM OF DISPENSER
TA-5	HANDICAP SOAP DISPENSER B-2013	4'-0" MAX	HT. TO BOTTOM OF DISPENSER
TA-6	GRAB BAR 42" B-6806X42	3'-0" MAX	HT. TO CENTER
TA-7	GRAB BAR 24" B-6806X24	3'-0" MAX	HT. TO CENTER
TA-8	GRAB BAR 18" (VERTICAL) B-6806X18	3'-3" MAX	HT. TO BOTTOM OF CENTER OF BAR @ 40" FROM REAR WALL
TA-9	SURFACE MOUNTED SEAT COVER DISPENSER	2'-6"	HT. TO TOP OF DISPENSER
TA-10	SANITARY BIN	2'-6"	
TA-11	COAT HOOK	4'-0" MAX	HT. TO TOP OF DISPENSER
TA-12	FOLDING SHOWER SEAT B-5181	17"-19"	HT. FROM FLOOR TO TOP OF SEAT
TA-13	GRAB BAR B-6806X48	3'-0" MAX	HT. FROM FLOOR TO TOP OF GRIPPING SURFACE
TA-14	GRAB BAR 24" B-6806X24	3'-0" MAX	HT. TO CENTER
TA-15	SHOWER CURTAIN ROD B-207 X 60	72" - 74"	HT. FROM FLOOR TO < OF ROD
TA-16	PREFAB FIBERGLASS SHOWER INSERT 36"		SEE PLUMBING DRAWING
TA-17	FRAMELESS MIRROR 3'-6"W X 3'-6"H	3'-4"	HT. TO BOTTOM OF MIRROR
TA-18	CHILD CHANGING TABLE		

- NOTES:
- MODEL NUMBERS ARE BOBRICK, UON, BRADLEY, FRANKLIN & ASI ARE APPROVED EQUALS. SUBMIT CUT SHEETS FOR APPROVAL.
 - SUBMIT SHOP DRAWINGS FOR ALL TOILET PARTITION CONFIGURATIONS.
 - ALL HANDRAILS SHALL BE BLOCKED TO SUPPORT A 250 LB. LOAD MINIMUM.
 - PROVIDE BLOCKING AS REQUIRED FOR ALL ACCESSORIES.

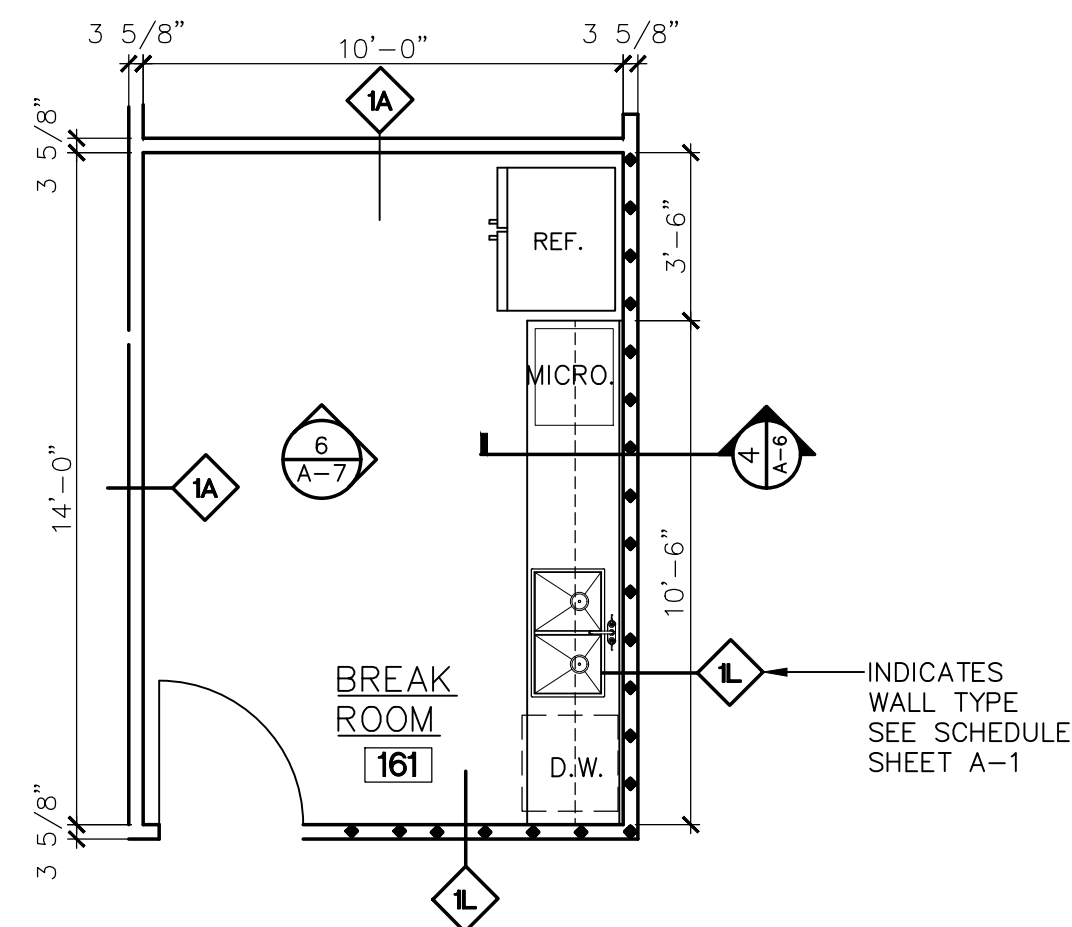


5 VANITY DETAIL
A-6 SCALE: 1"=1'-0"

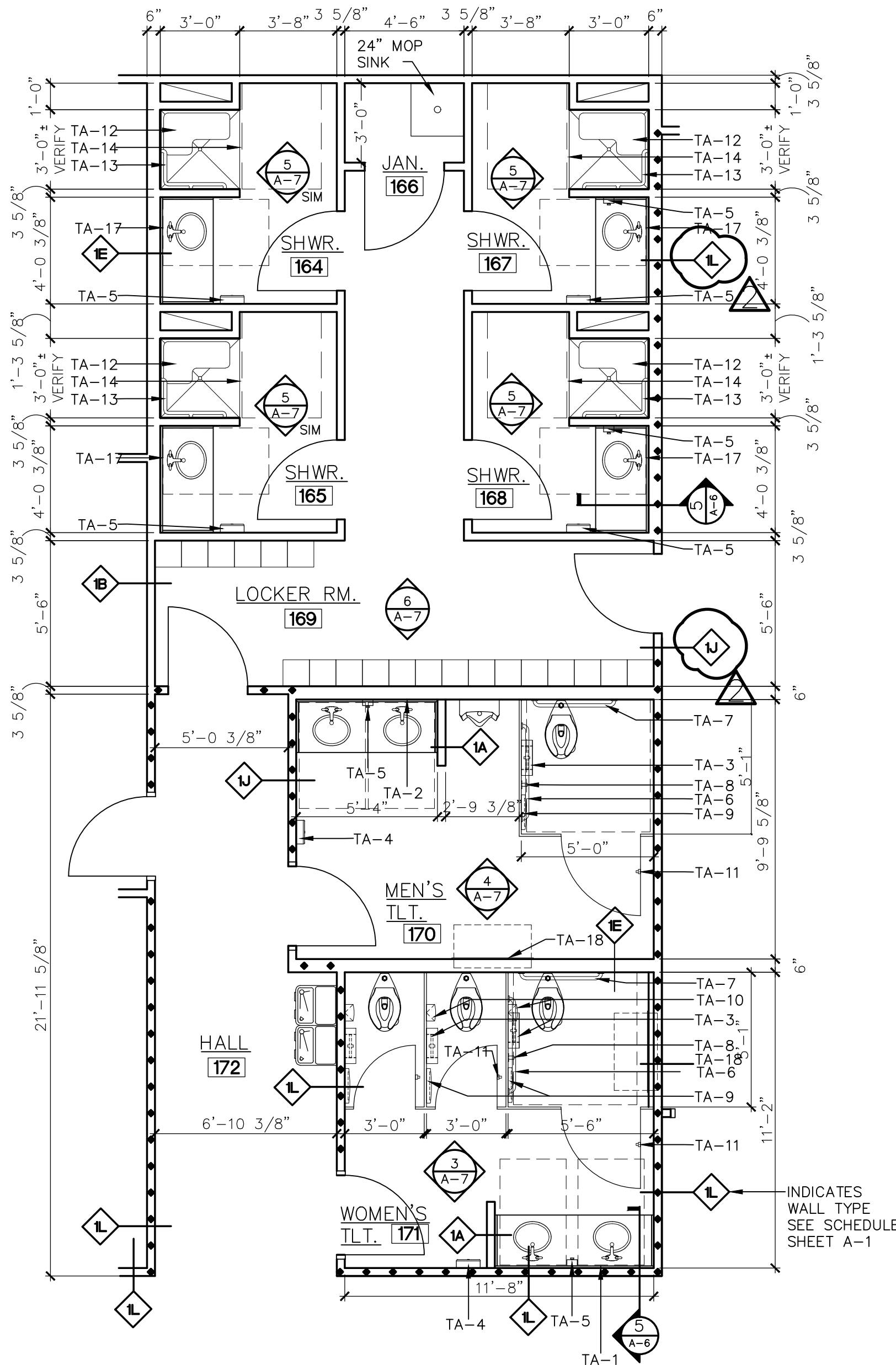
- GENERAL NOTES:
1. PLASTIC LAMINATE P.L. EXTERIOR/WHITE MELAMINE COATING INTERIOR
 2. CONCEALED HINGES THROUGHOUT
 3. 4" SATIN CHROME PULL WIRES
 4. ALL SHELVING ADJUSTABLE W/ COUNTERSUNK STANDARDS



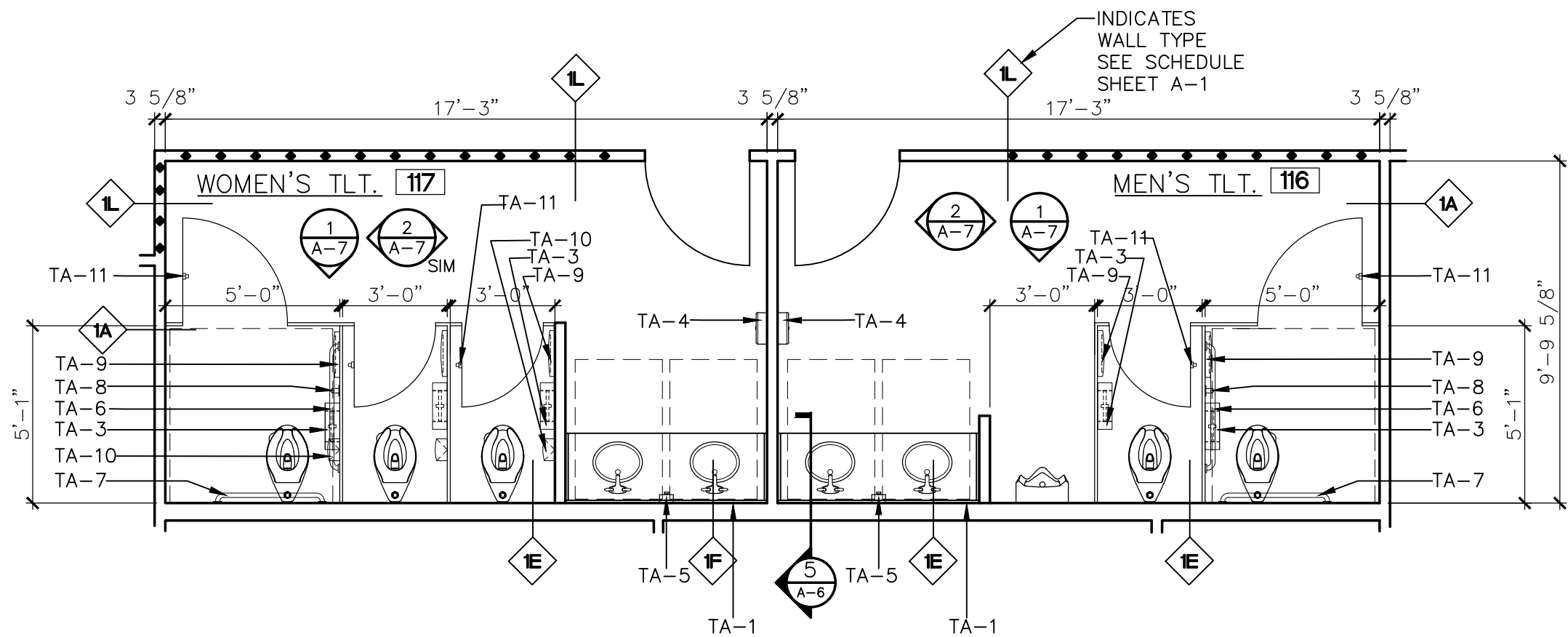
4 KITCHEN CABINET SECTION
A-6 SCALE: 3/4"=1'-0"



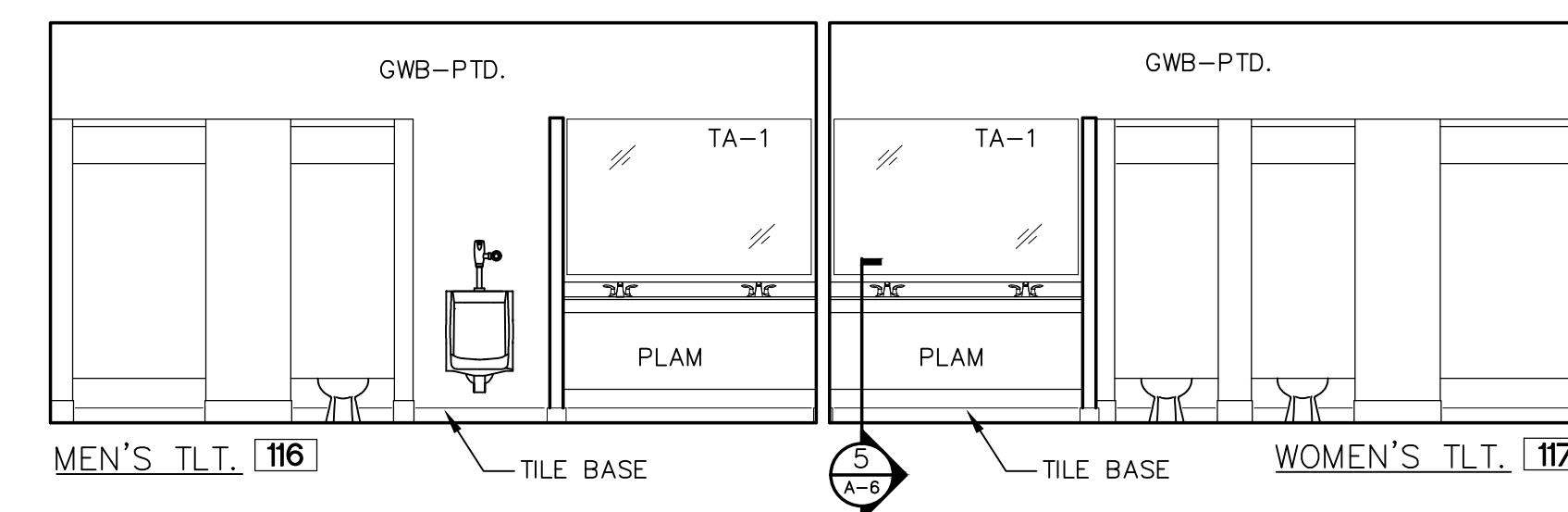
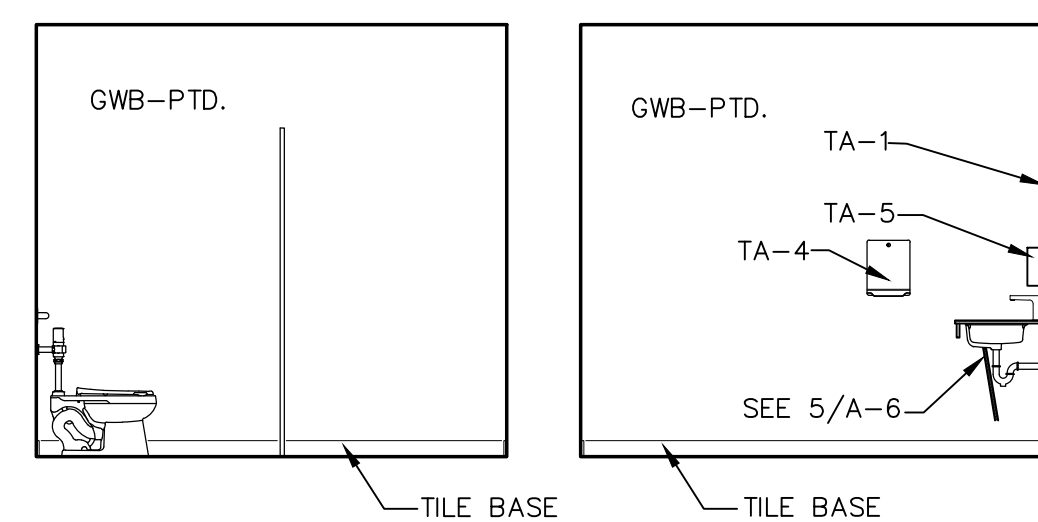
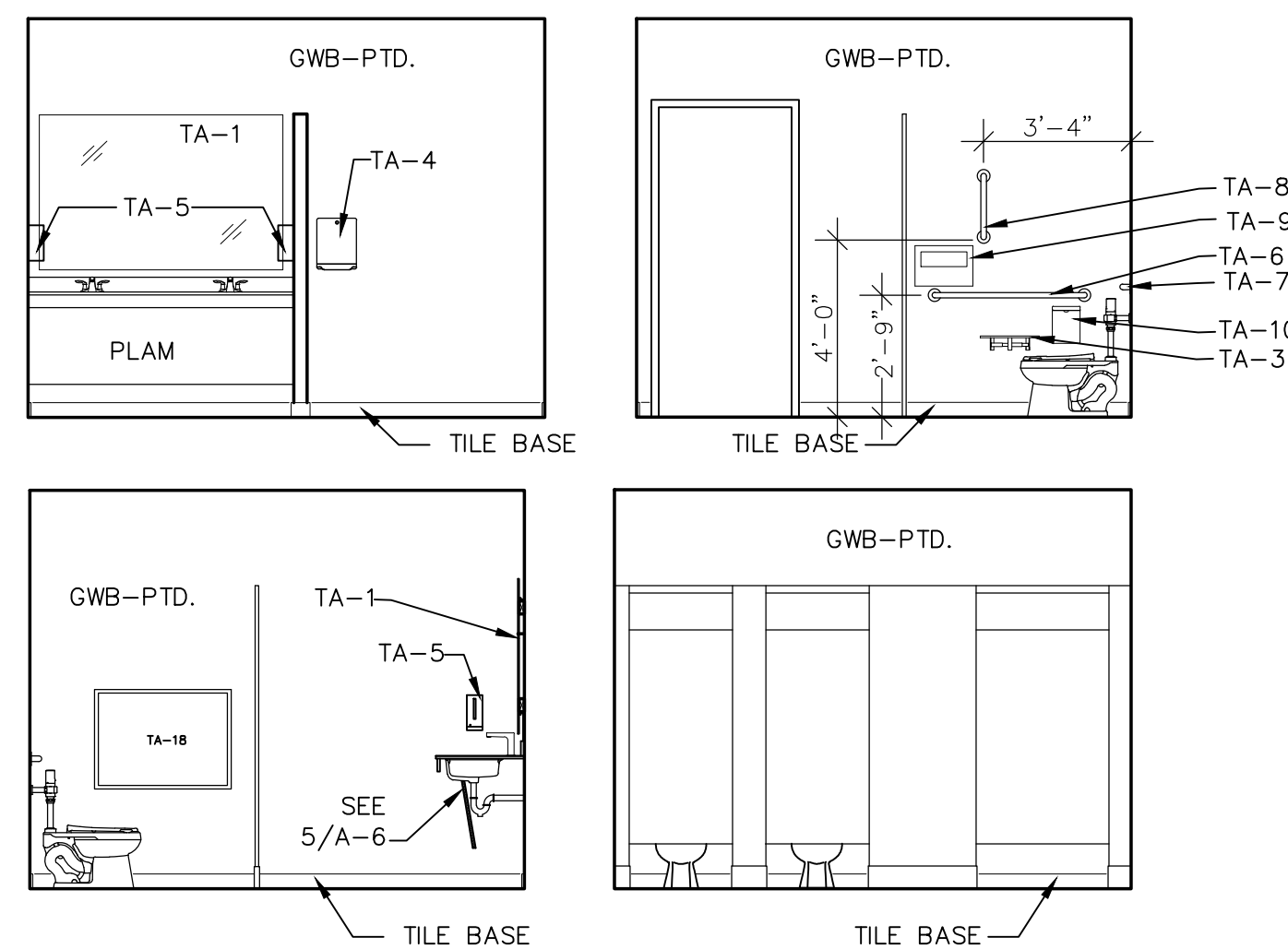
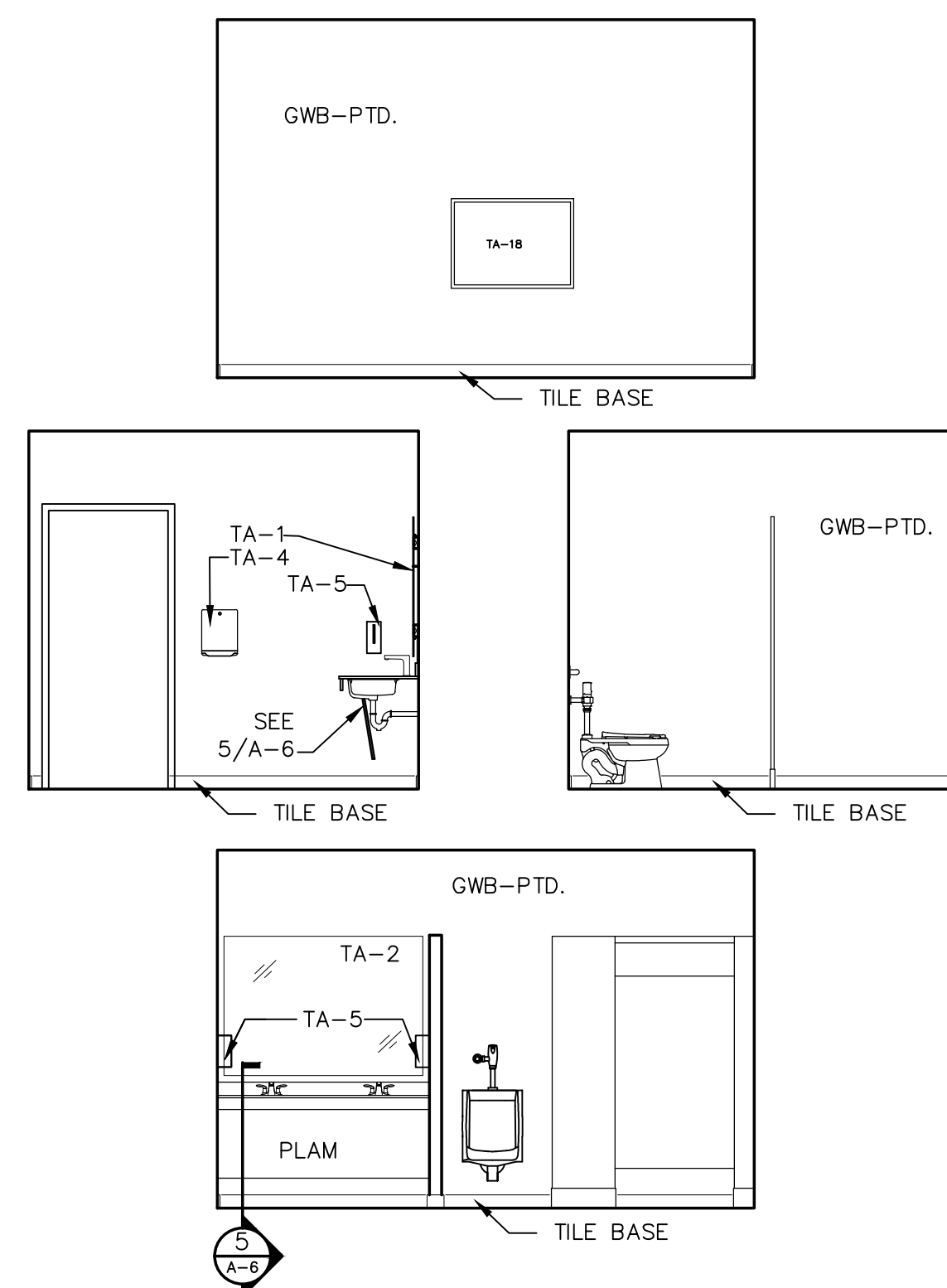
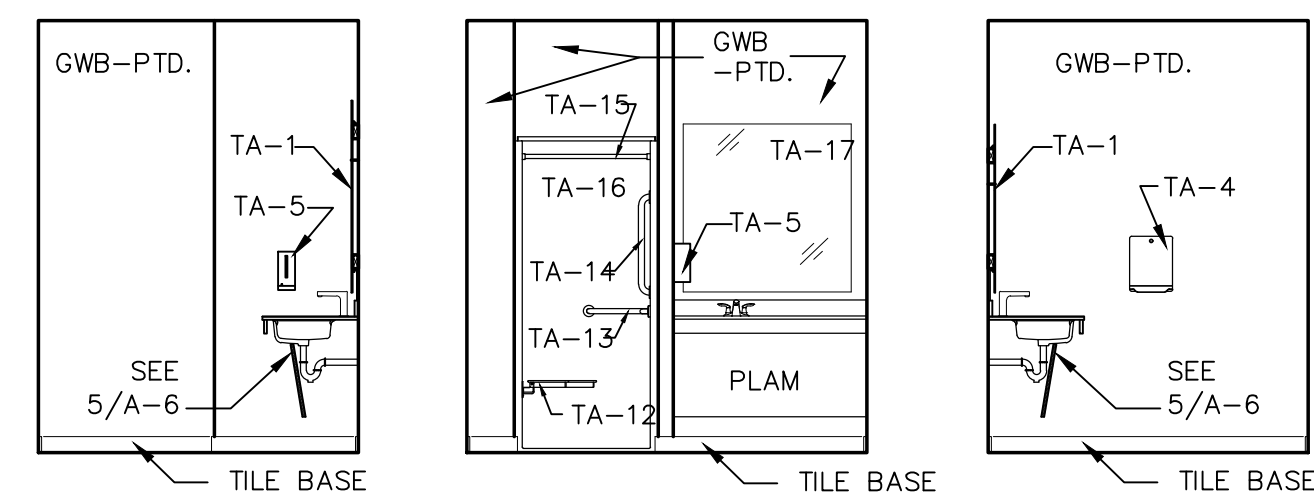
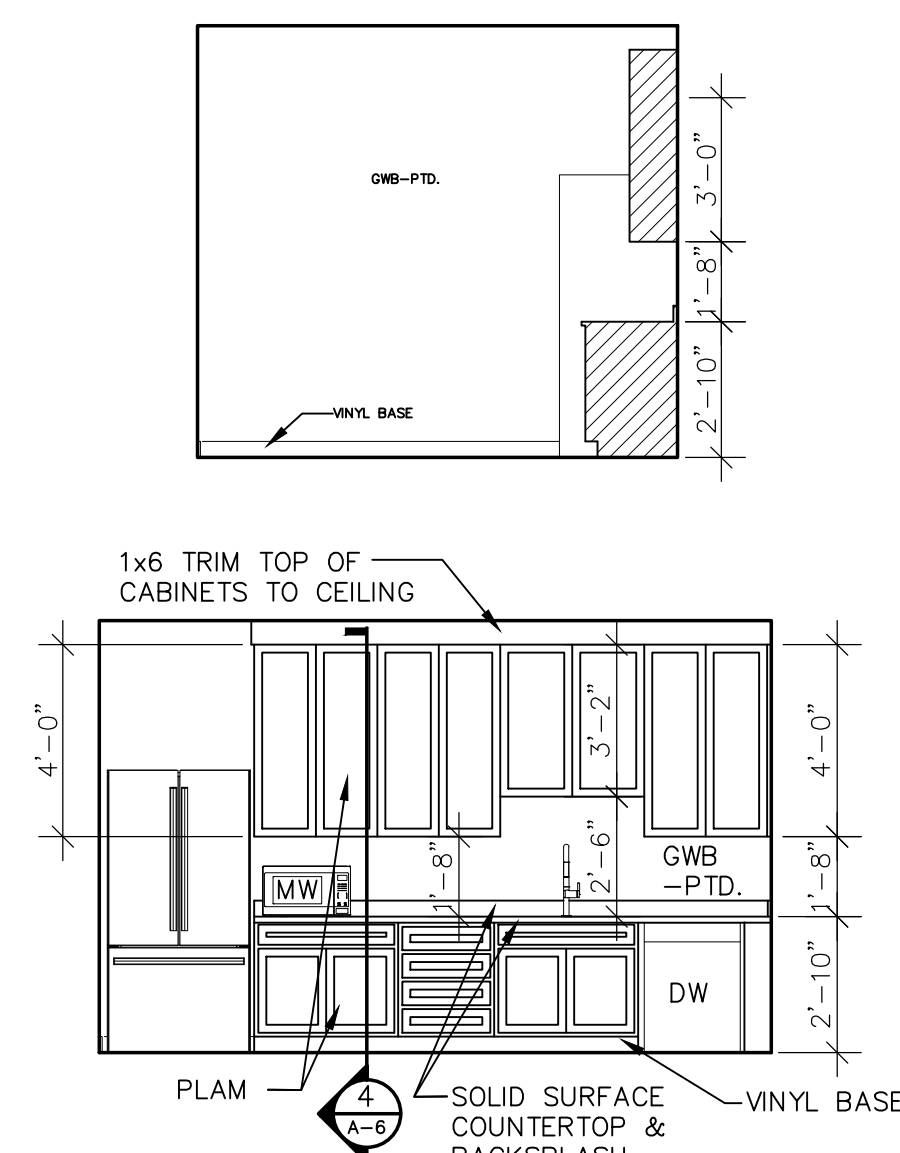
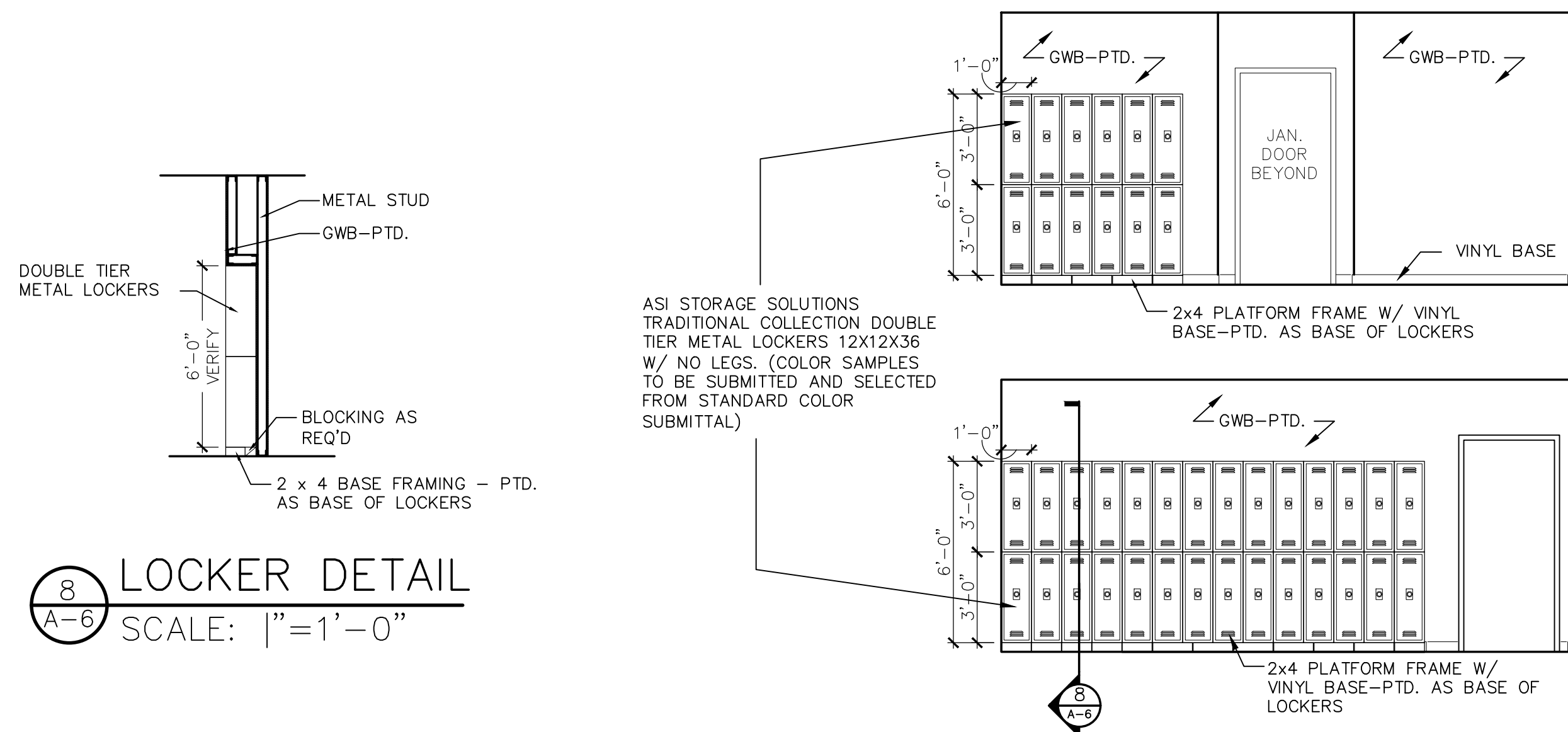
3 BREAK ROOM 161
A-6 ENLARGED PLAN
SCALE: 1/4"=1'-0"

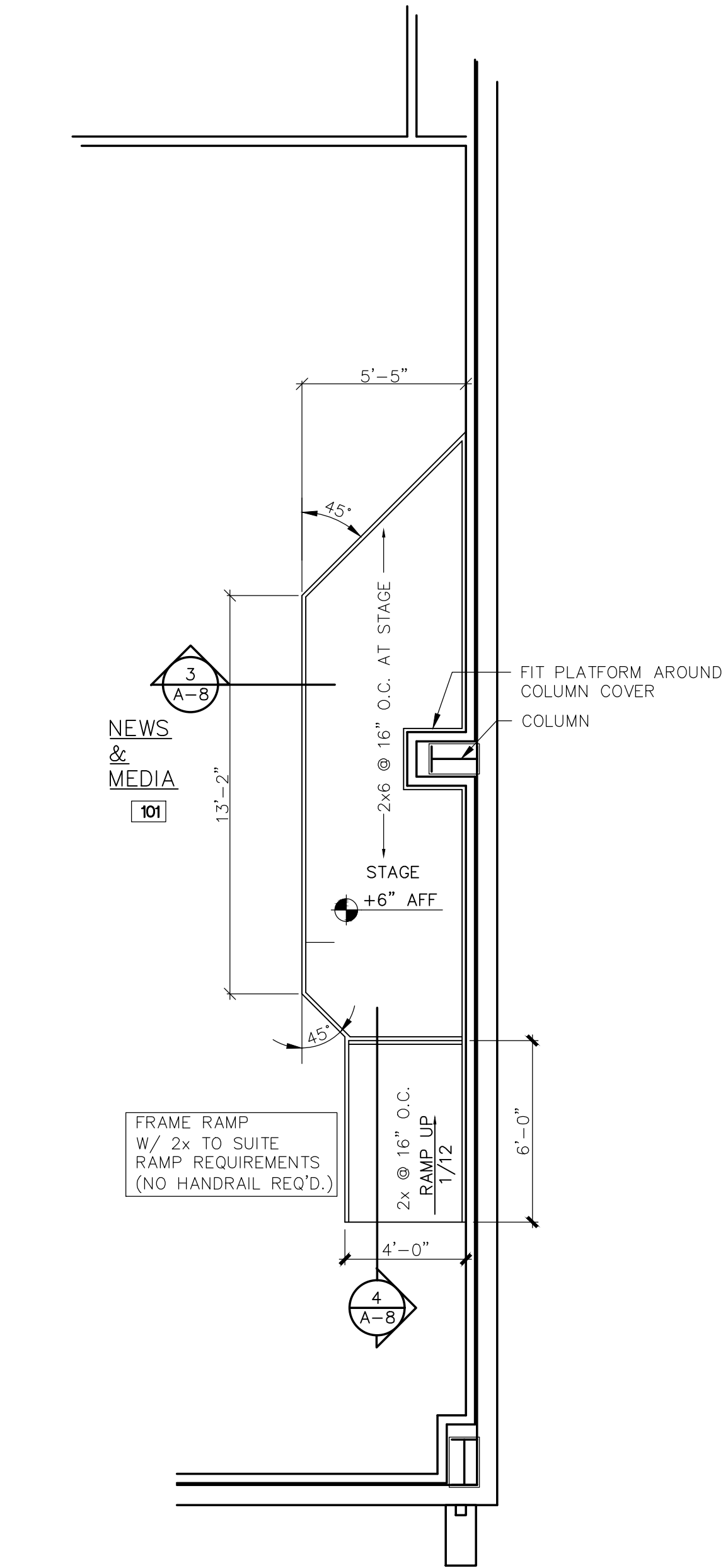


2 ENLARGED PLAN
A-6 SCALE: 1/4"=1'-0"

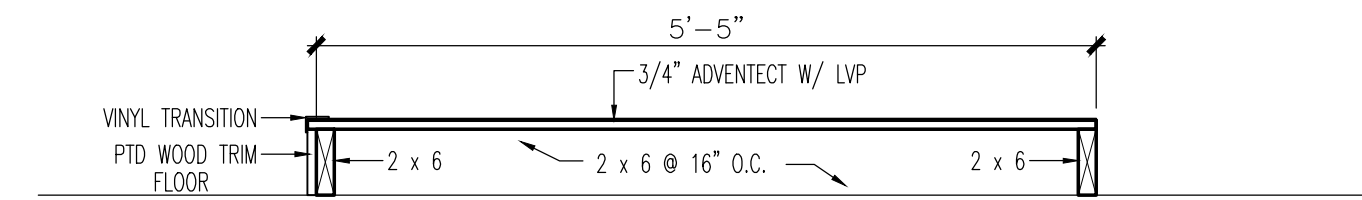


1 MEN'S TOILET 116 &
A-6 WOMEN'S TOILET 117
ENLARGED PLAN
SCALE: 1/4"=1'-0"

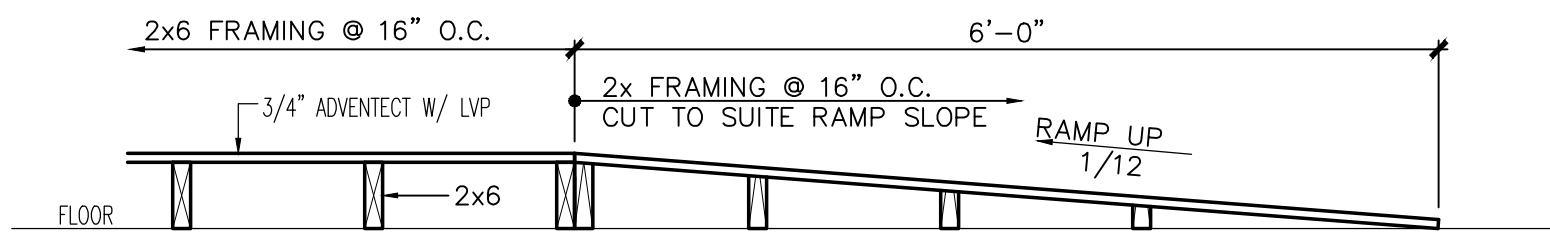




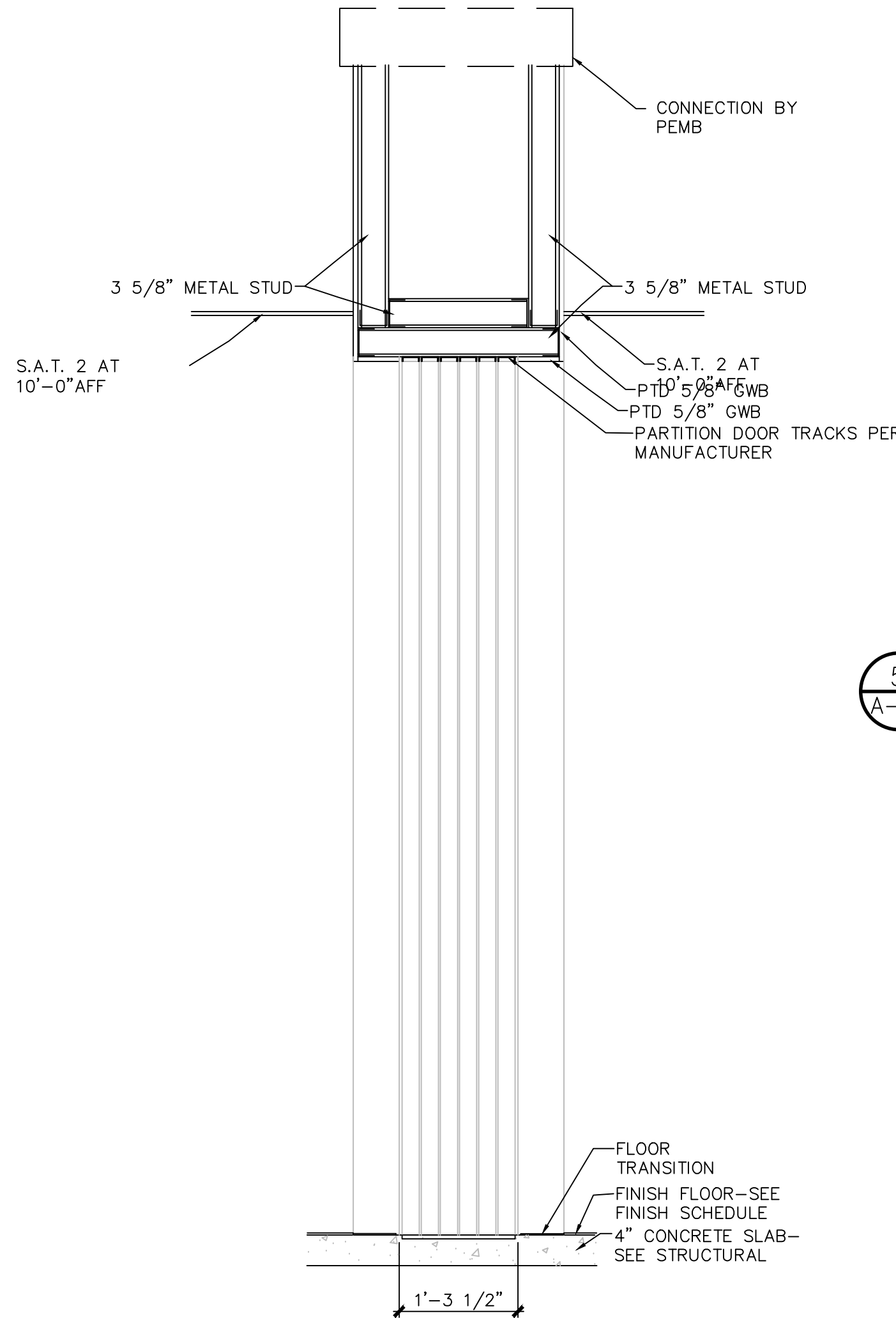
1 PLATFORM FRAMING PLAN
A-8 SCALE: 1/4"=1'-0"



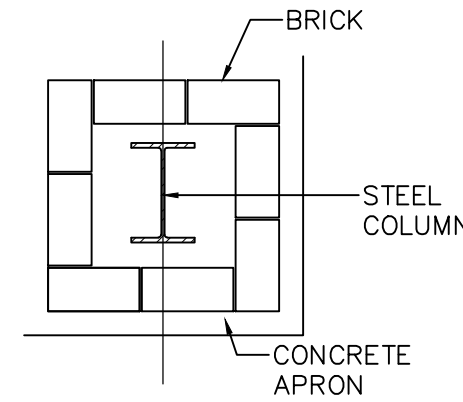
3 PLATFORM SECTION
A-8 SCALE: 3/4"=1'-0"



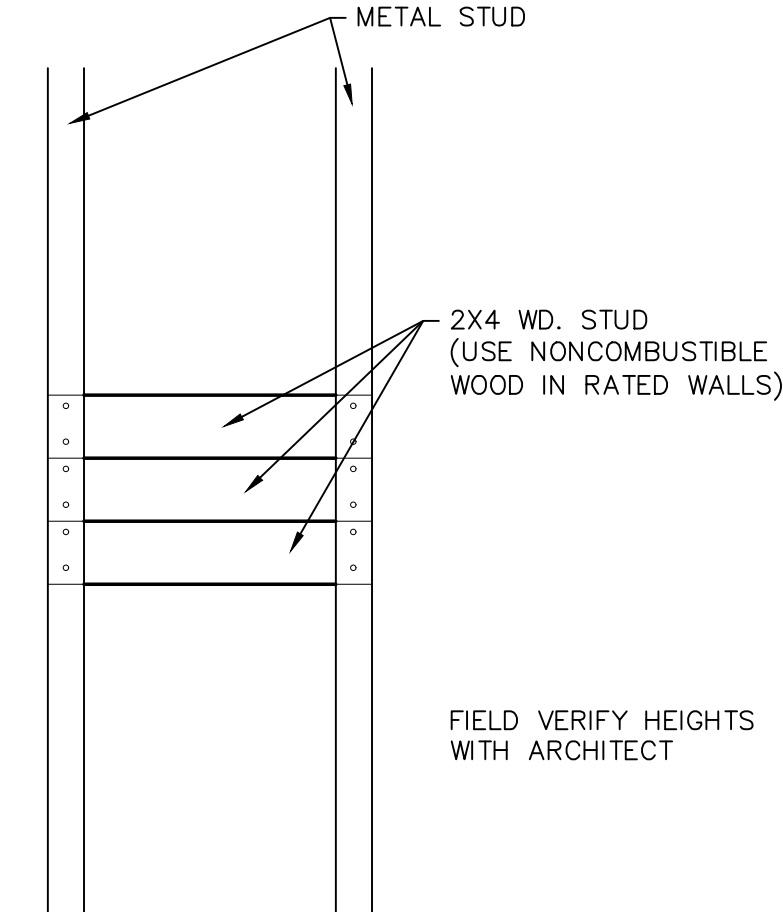
4 PLATFORM SECTION
A-8 SCALE: 3/4"=1'-0"



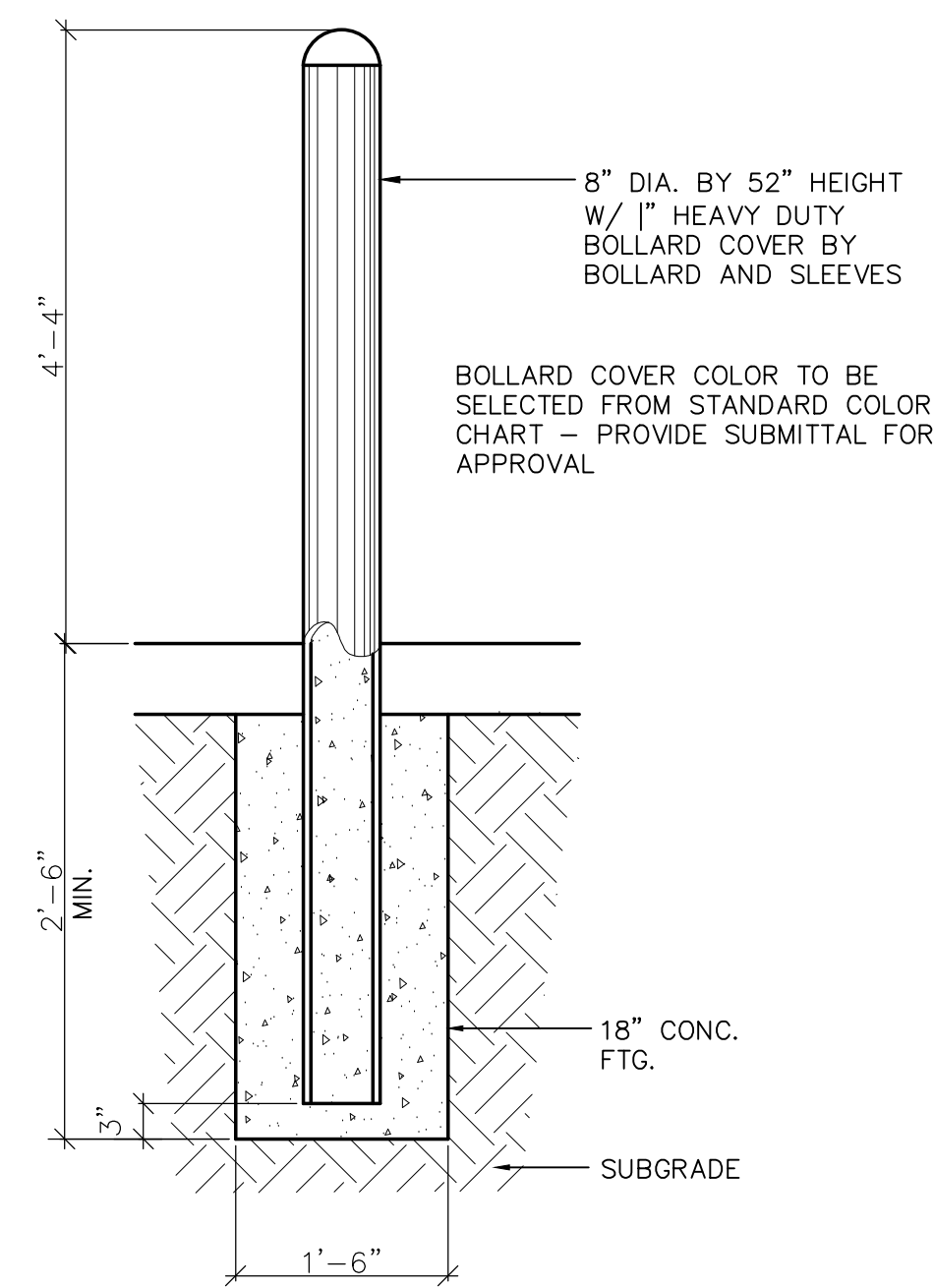
6 SOFFIT SECTION AT PARTITION
A-8 SCALE: 3/4"=1'-0"



2 PORCH COLUMN
A-8 SCALE: 3/4"=1'-0"



5 TV BLOCKING DETAIL
A-5.2 SCALE: 1"=1'-0"



1 TYPICAL BOLLARD DETAIL
A-9.1 SCALE: 3/4"=1'-0"

GENERAL NOTES:

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING (AND ACCOMPANYING FOOTINGS), GUYS OR TIEDOWNS.

DESIGN CODES:

2018 NORTH CAROLINA STATE BUILDING CODE.

ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY.

DESIGN LOADS:

THE FOUNDATION SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED WITH THE FOLLOWING SUPERIMPOSED LOADINGS:

COLUMN REACTIONS PROVIDED BY PEMB MANUFACTURER (PRELIMINARY PENDING)

WIND:
BASIC WIND SPEED (3 SEC GUST) 148 mph
EXPOSURE CATEGORY C
RISK CATEGORY IV

COMPONENT & CLADDING:
ALL BUILDING COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR WIND LOADS DETERMINED PER THE NORTH CAROLINA STATE BUILDING CODE FOR THE BASIC DESIGN WIND VELOCITY, IMPORTANCE FACTOR AND EXPOSURE LISTED ABOVE.

FOUNDATIONS:

FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 psf. ON EXISTING SOILS. BEFORE CONSTRUCTION COMMENCES, SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION, A CERTIFIED TESTING LABORATORY, WHOSE REPORT SHALL INCLUDE ANALYSIS AND RECOMMENDATIONS FOR SITE PREPARATION IN ORDER TO BEAR THE FOUNDATION LOADS. ABOVE REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE FOUNDATION CONSTRUCTION BEGINS.

CONCRETE MATERIAL SPECIFICATIONS:

CONCRETE COMPRESSIVE STRENGTH: 4000 psi (28 DAY STRENGTH)
CEMENT: TYPE III
AIR ENTRAINMENT: 5% - 7% IF EXPOSED TO WEATHER OR EARTH
REINFORCING STEEL: ASTM A615, GRADE 60
WELDED WIRE FABRIC: ASTM A185
ANCHOR BOLTS: GRADE A36
CLASS B SPLICE LENGTH: GREATER OF 48 BAR DIAMETERS OR 24 INCHES

SPECIAL INSPECTION AND TESTING:

- SPECIAL INSPECTION AND MINIMUM TESTING SHALL BE PERFORMED IN ACCORDANCE WITH 2018 NCSCB, TABLES 1704.4 (CONCRETE)
- INSPECTION & TESTING SHALL BE PROVIDED BY AN INDEPENDENT TESTING AGENCY HIRED AT THE OWNER'S EXPENSE. AGENCY INSPECTION PERSONNEL SHALL MEET THE INSPECTOR QUALIFICATIONS FOR EACH MATERIAL ITEM AS INDICATED IN THE SPECIFICATIONS. ALL RE-TESTING DUE TO FAILURE OF ORIGINAL TEST SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
- ANY MATERIAL OR PLACEMENT DEVIATIONS FROM MINIMUMS SHOWN ON THE DRAWINGS OR IN SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

KEYED NOTES & LEGEND

- WALL & COLUMN FOOTING EXTENTS
- TURNED DOWN SLAB BASE
- EDGE OF SLAB
- STRUCTURE BY OTHERS

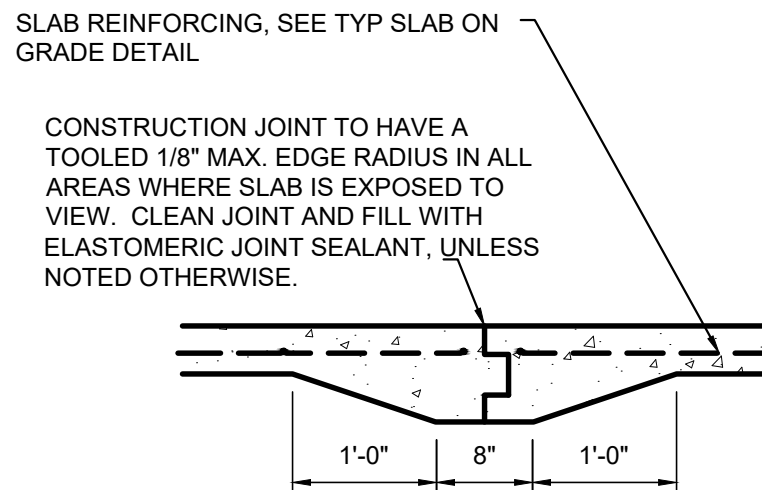
FOOTING MARK F40 | W12x14 | 1'-4" | BP1 | COLUMN SIZE | BASEPLATE MARK

TOP OF FOOTING ELEV. BELOW FINISHED FLOOR

SPREAD FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F30	3'-0"x3'-0"x12"	(4)-#4 E.W. TOP & BOT
F45	4'-6"x4'-6"x12"	(6)-#4 E.W. TOP & BOT
F100	10'-0"x10'-0"x12"	(11)-#4 E.W. TOP & BOT

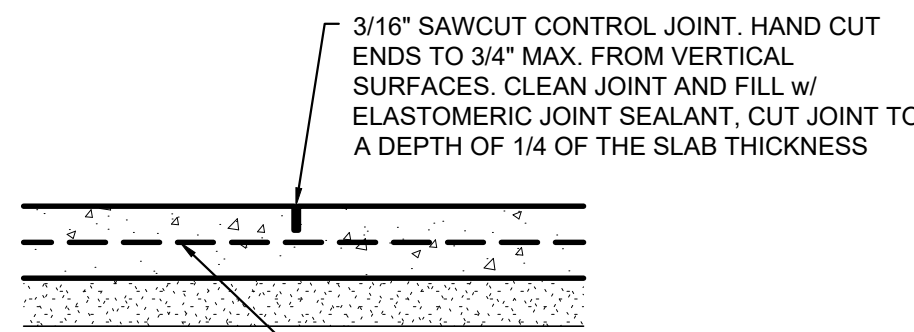
NOTE:
FINAL FOOTING AND ANCHOR BOLT DESIGN TO BE CONFIRMED UPON RECEIPT OF REACTIONS FROM PEMB MANUFACTURER

CONSTRUCTION JOINT TO HAVE A TOOLED 1/8" MAX. EDGE RADIUS IN ALL AREAS WHERE SLAB IS EXPOSED TO VIEW. CLEAN JOINT AND FILL WITH ELASTOMERIC JOINT SEALANT, UNLESS NOTED OTHERWISE.



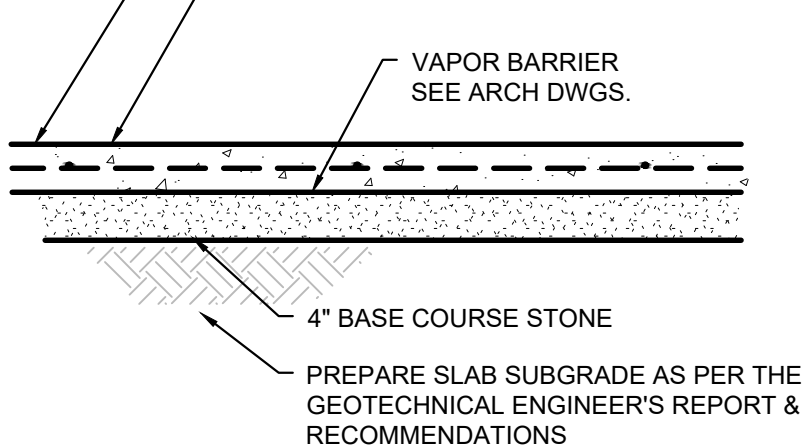
2 4" SLAB ON GRADE CONST. JOINT
SCALE: 3/4" = 1'-0"

- NOTES:
- CONTRACTORS OPTION - USE REMOVABLE CONTROL JOINT MATERIAL SUCH AS "ZIP STRIP", "STRESSLOCK", OR APPROVED EQUAL.
 - SLAB ON GRADE CONTROL JOINTS SHALL BE TOOLED OR SAWCUT. THE JOINT PATTERN SHALL BE APPROXIMATELY SQUARE AND LIMITED TO AN AREA NOT TO EXCEED 225 S.F. JOINTS SHALL BE CUT WITHIN 12 HOURS OF POURING SLAB. SEE PLAN FOR PROPOSED JOINT LAYOUT. FINAL JOINT LAYOUT TO BE DETERMINED BY THE GENERAL CONTRACTOR.



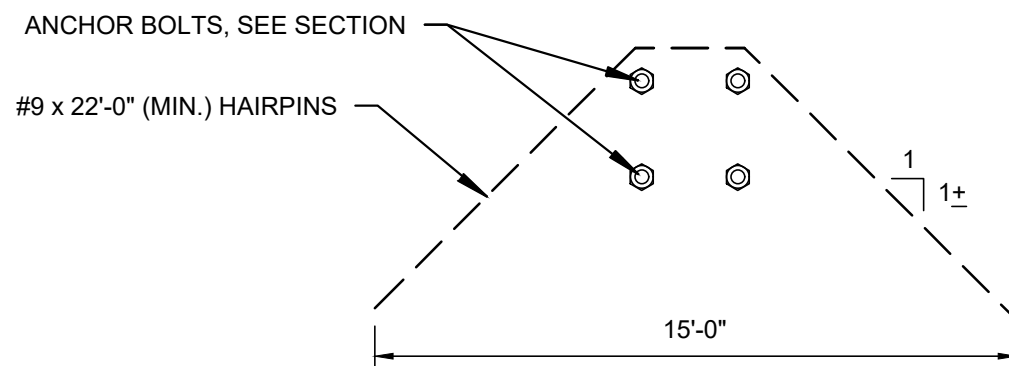
3 4" SLAB ON GRADE CONTROL JOINT
SCALE: 3/4" = 1'-0"

4" CONC SLAB, SEE PLAN
6"x6" - W2xW2 WELDED WIRE MESH PLUS 1-1/2 lbs. PER CUBIC YARD FIBRILLATED, COLLATED POLYPROPYLENE FIBERS. WELDED WIRE MESH MUST BE PREFABRICATED SHEETS, NO ROLLED MESH ALLOWED. PROVIDE A MINIMUM OF ONE CHAIR PER 25 SQUARE FEET OF MESH SUPPORTED.



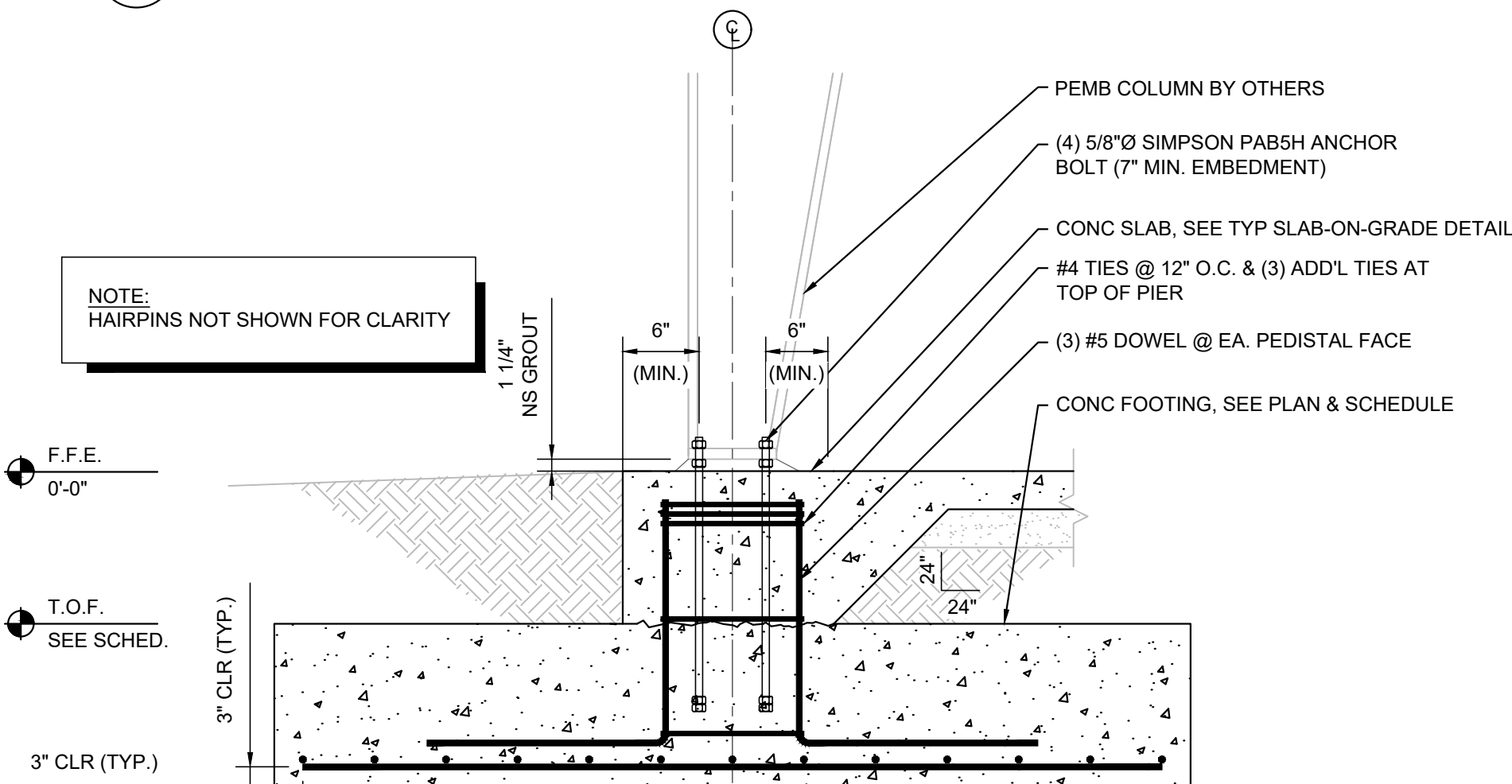
- NOTES:
- SEE ARCHITECTURAL DRAWINGS FOR SLOPES, DROPS, AND DRAIN LOCATIONS IN FLOOR SLABS.

4 4" SLAB ON GRADE DETAIL
SCALE: 3/4" = 1'-0"

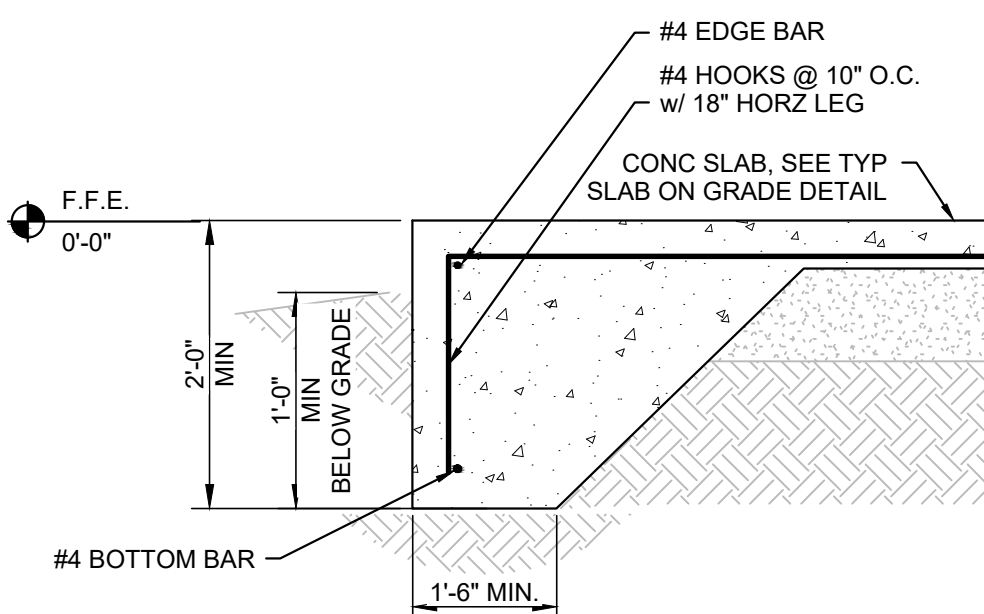


HAIRPIN CONDITION

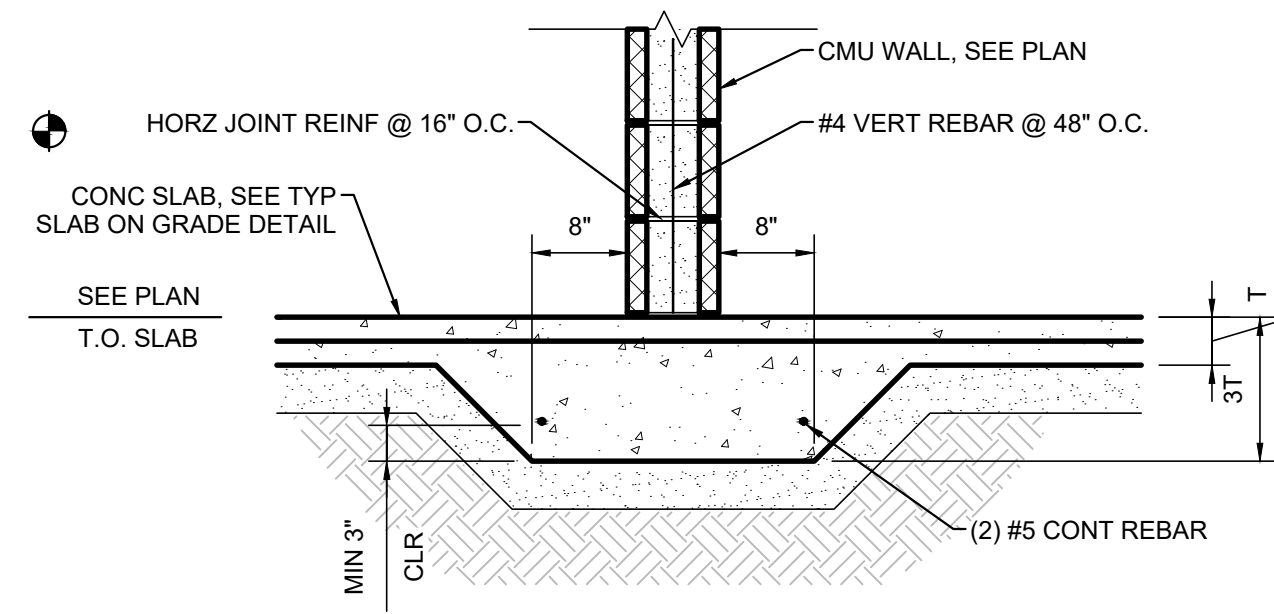
7 TYP. HAIRPIN DETAILS
SCALE: 1" = 1'-0"



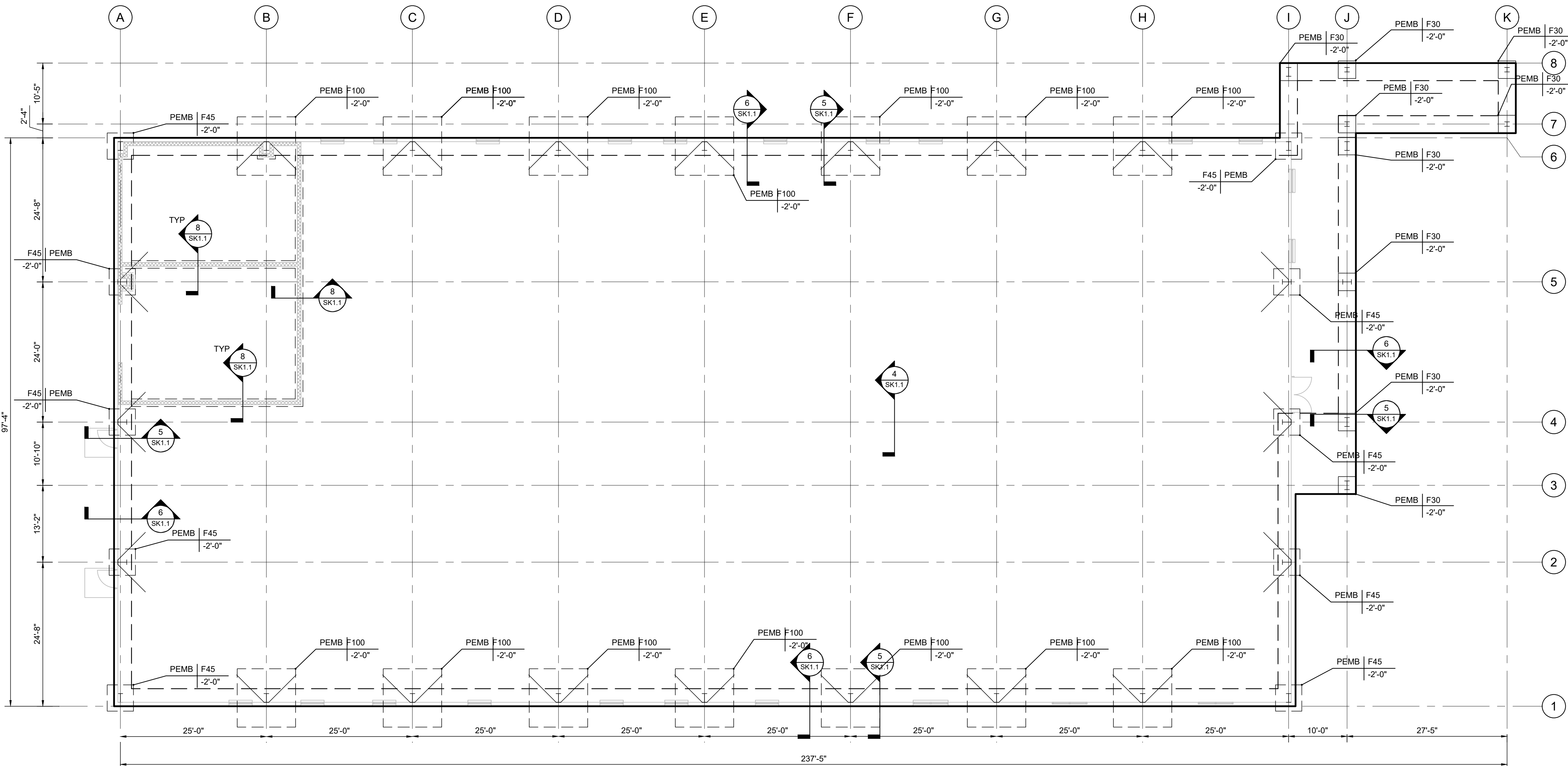
5 SECTION - TYPICAL COLUMN
SCALE: 3/4" = 1'-0"



6 PERIMETER FOUNDATION
SCALE: 3/4" = 1'-0"



8 THICKENED SLAB AT INT. CMU PARTITION WALL
SCALE: 3/4" = 1'-0"



1 PEMB FOOTINGS
ARCH REF: 1/A-1
Scale: 3/32" = 1'-0"



COLUMBUS COUNTY SHERIFF'S DEPT
PEMB FOUNDATION DESIGN

WHITESVILLE, NC

GENERAL NOTES
FOUNDATION PLAN
CONSTRUCTION DETAILS

DESIGNED BY: AJJ/JTF		
DRAWN BY: AJJ/JTF		
APPROVED BY: HMM		
PROJECT #: 24-308		
DATE: 03/24/2025		
No.	Revision	Date
1	FOOTING ADD	01/16/2025

Sheet

SK1.1

FOR PERMIT

STATEMENT OF SPECIAL INSPECTIONS					
PROJECT INFORMATION		DESIGN PROFESSIONAL INFORMATION		CONSTRUCTION AND SITE	
PROJECT NAME	COLUMBUS COUNTY SHERIFF OFFICE	ARCHITECT/ENGINEER/CONSULTANT	HEATH HENDRICK, PE	INSPECTION CATEGORIES	CONCRETE
PROJECT DESCRIPTION	COMMERCIAL	FIRM	FDR ENGINEERS, PLLC	SEISMIC DESIGN CATEGORY	D
LOCATION	WHITESVILLE, NC	ADDRESS	121 KITTY HAWK DR, MORRISVILLE, NC 27560	WIND SPEED	148 MPH
OWNER	N/A	PHONE	(919) 957-5100	EXPOSURE CATEGORY	C

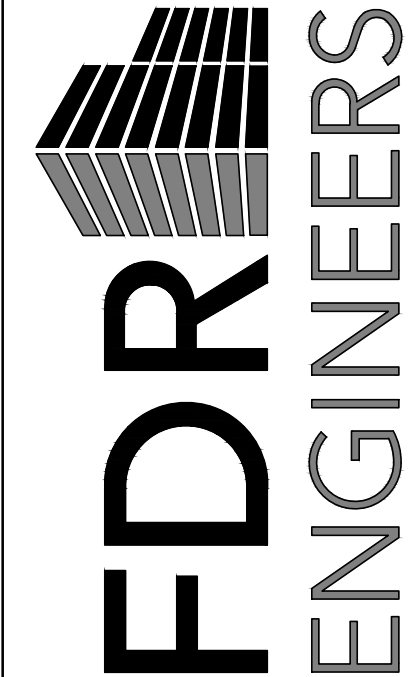
SPECIAL INSPECTION AND TESTING:

1. SPECIAL INSPECTION AND MINIMUM TESTING SHALL BE PERFORMED IN ACCORDANCE WITH 2018 NCSBC, TABLES 1704.3 (STEEL), 1705.3 (CONCRETE), AND 1705.2.3 (OPEN-WEB STEEL JOISTS AND JOIST GIRDERS).

2. INSPECTION & TESTING SHALL BE PROVIDED BY AN INDEPENDENT TESTING AGENCY HIRED AT THE OWNER'S EXPENSE. AGENCY INSPECTION PERSONEL SHALL MEET THE INSPECTOR QUALIFICATIONS FOR EACH MATERIAL ITEM AS INDICATED IN THE SPECIFICATIONS. ALL RE-TESTING DUE TO FAILURE OF ORIGINAL TEST SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.

3. ANY MATERIAL OR PLACEMENT DEVIATIONS FROM MINIMUMS SHOWN ON THE DRAWINGS OR IN SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION				
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	-	X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	-	X	AWS D1.4 ACI 318: 26.6.4	-
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		X		
c. INSPECT ALL OTHER WELDS	X			
3. INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 17.8.2.4	-
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a		X	ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF CONCRETE	X	-	ASTM C172 ASTM C31 ASTM 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR:				
a. APPLICATION OF PRESTRESSING FORCES; AND	X	-	ACI 318: 26.10	-
b. GROUTING OF BONDED PRESTRESSING TENDONS	X	-		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318: CH. 26.8	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	X	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	ACI 318: 26.11.1.2(b)	-



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jfe@fdr-eng.com



Project Name

COLUMBUS COUNTY SHERIFF'S DEPT
PEMB FOUNDATION DESIGN
WHITESVILLE, NC

Sheet Title

SPECIAL INSPECTIONS

DESIGNED BY:

AJI/JTF

DRAWN BY:

AJI/JTF

APPROVED BY:

HMH

PROJECT #:

24-308

DATE:

03/24/2025

No.	Revision	Date
1	FOOTING ADD	01/16/2025

Sheet

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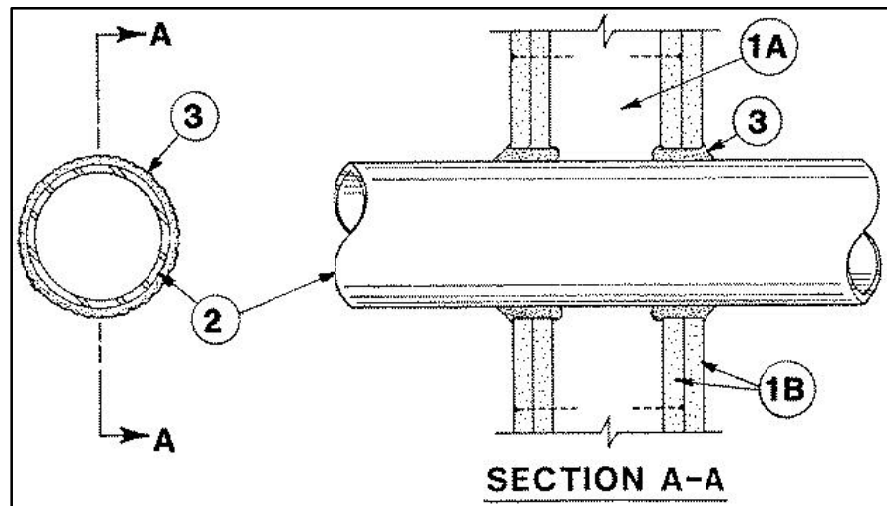
DOI
FOR PERMIT

F Ratings -- 1, 2, 3 and 4 Hr (See Items 2 and 3)

T Ratings -- 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient - less than 1 CFM/sq ft

L Rating At 400 F - less than 1 CFM/sq ft



1. Wall Assembly -- The 1,2,3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs -- Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

B. Gypsum Board* -- Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in.

2. Through-Penetrant-- One metallic pipe, conduit or tubing installed either concentrically or eccentrically with the firestop system. The annular space between pipe, conduit, or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe -- Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe -- Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit -- Nom 6 in. diam (or smaller) steel conduit or nom 4 in diam (or smaller) steel electrical metallic tubing.

D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe -- Nom 6 in. diam (or smaller) Regular (or heavier) copper tubing.

F. through Penetrating Product* -- Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

1. Nom 2 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

TITLEFLEX CORP

A BUNDY CO

3. Nom 1 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC

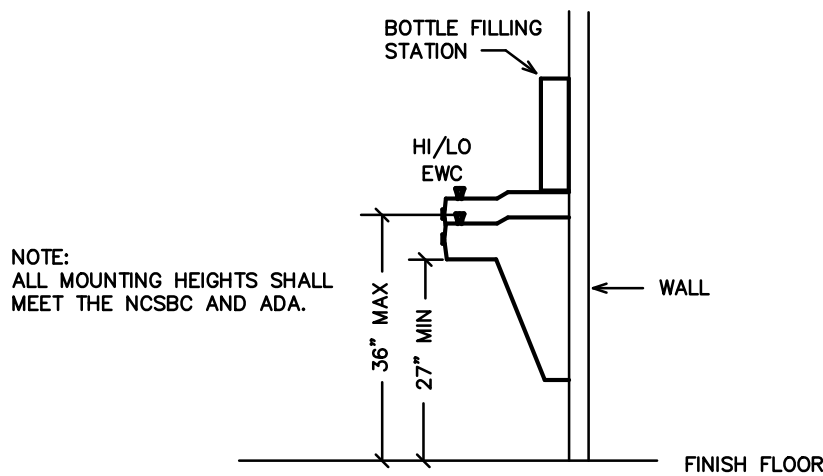
3. Fill, Void or Cavity Material* -- Caulk -- Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. thickness for caulk for 1,2,3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. dia bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In	F RATING Hr	T RATING Hr
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

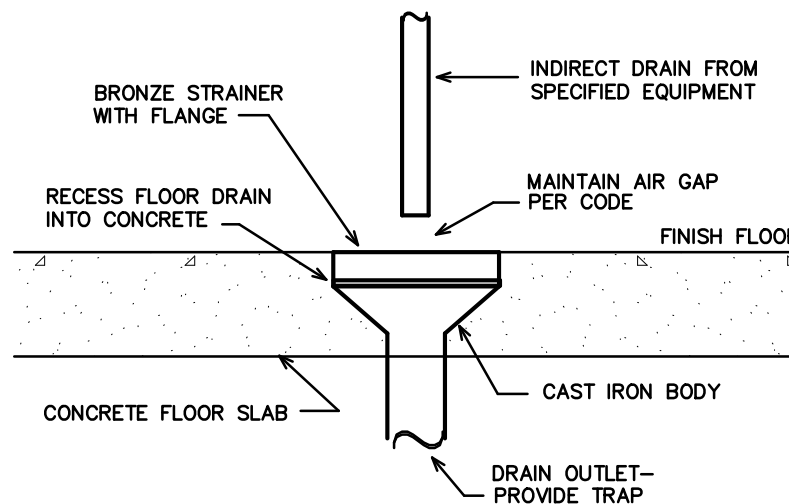
+When copper pipe is used, T Rating is 0 h.

3M COMPANY-- CP 25WB+.

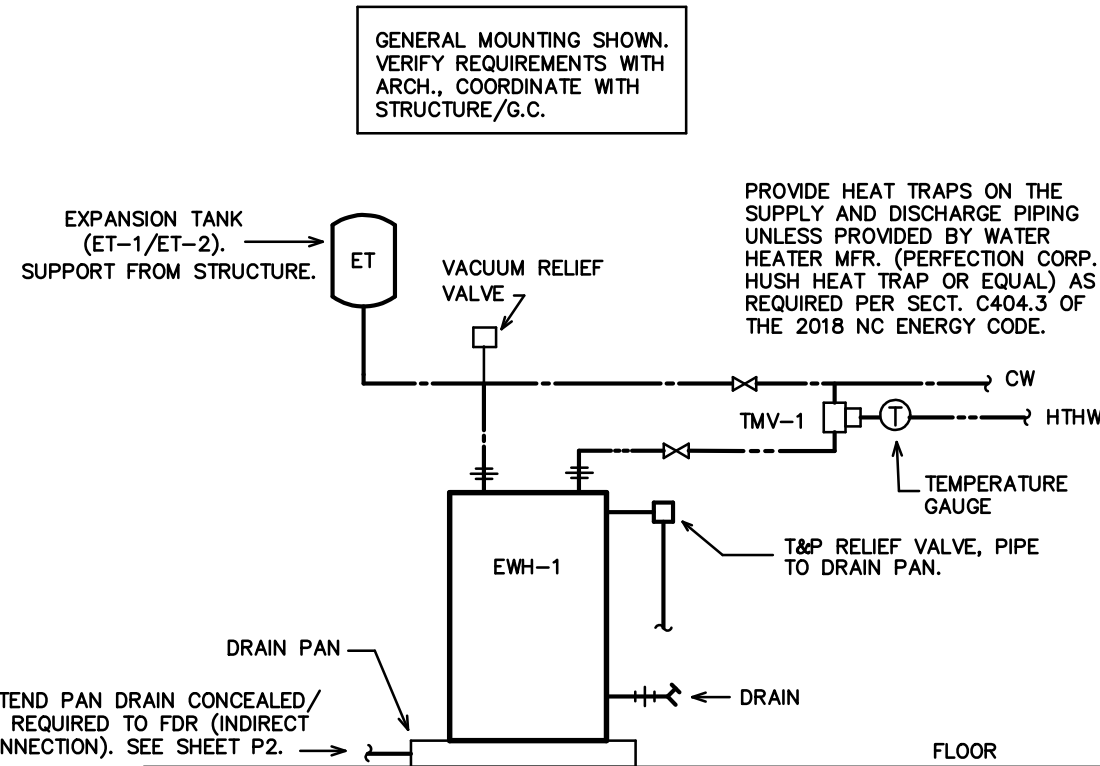
*Bearing the UL Classification Mark



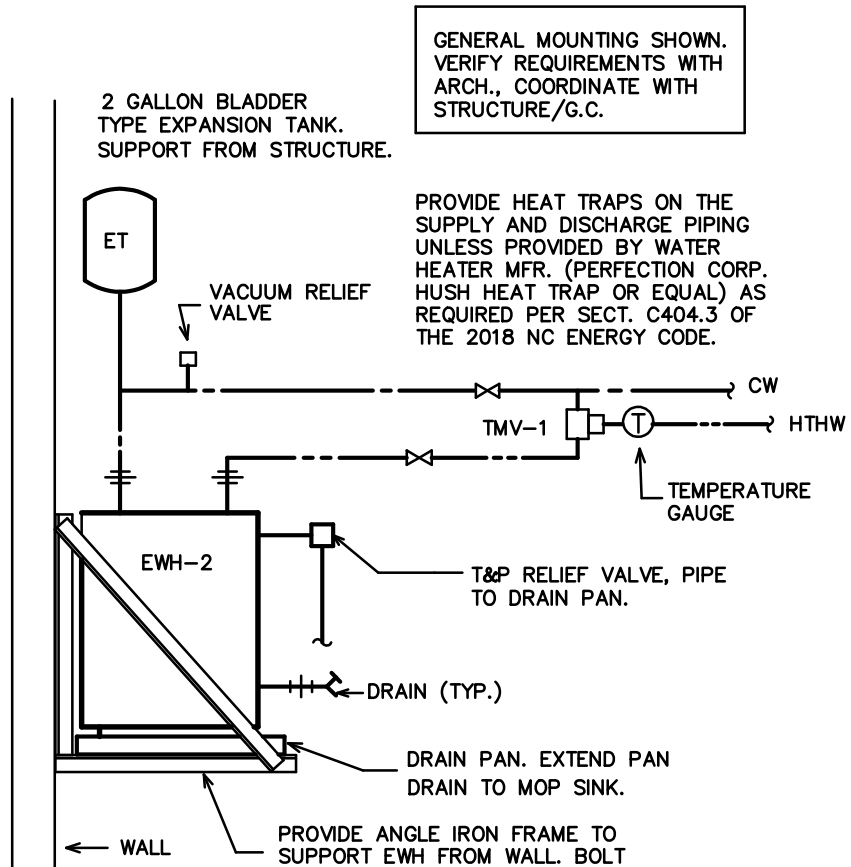
1 EWC DETAIL SCALE: NTS



2 FDR DETAIL SCALE: NTS



4 EWH-1 DETAIL SCALE: NTS



NOTE: WATER HEATERS, PIPING, AND PIPING APPURTENANCES PROVIDED BY P.C. WATER HEATER SUPPORTS BY P.C.

5 EWH-2 DETAIL SCALE: NTS

GENERAL NOTES -- PLUMBING

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE PLUMBING CONTRACTOR (PC) SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC).
- THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION AND ALL DISCREPANCIES OR INTERFERENCES BROUGHT TO THE ENGINEERS ATTENTION.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. THE PC SHALL PROVIDE ALL MISC. ITEMS NEEDED FOR A COMPLETE SYSTEM REGARDLESS IF NOTED ON THE DRAWINGS OR NOT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FLOORPLAN LAYOUTS. DO NOT USE ENGINEERING DRAWINGS FOR ROUGH-INS.
- THE GC SHALL PROVIDE ALL WALL, FLOOR AND ROOF OPENINGS OF THE SIZE AND LOCATION REQUIRED BY THE PC AND SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHES. THE PC SHALL PROPERLY SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEON PLATES AT ALL FINISHED LOCATIONS.
- ALL NEW WATER PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE, ADEQUATELY SUPPORTED AND PROTECTED AND PROPERLY PITCHED TO ALLOW TOTAL DRAINAGE.
- ALL WATER PIPING SHALL BE HYDROSTATICALLY TESTED FOR A MINIMUM OF 15 MINUTES AT A MINIMUM OF 100 PSIG BEFORE COVERING AND ALL LEAKS CORRECTED. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
- PROVIDE MIN. 18" SHOCK ABSORBERS WITH STOPS ON ALL HOT AND COLD WATER FIXTURE RUNS AS REQUIRED BY CODE.
- VENT LINES SHALL SLOPE UP TO ALL STACKS AND TERMINATE A MIN. OF 12" ABOVE ROOF LINE.
- PROVIDE CUT SHEETS ON ALL PLUMBING FIXTURES FOR ARCHITECT AND OWNER APPROVAL PRIOR TO ORDERING ANY FIXTURES.
- VERIFY/PROVIDE HOT WATER STORAGE (EWH-1/EWH-2) TEMPERATURE OF 140 DEG. (F). PROVIDE/VERIFY HIGH TEMPERATURE HOT WATER (HTHW) AT 120 DEGREES (MAX.) F, PROVIDE/VERIFY LOW TEMPERATURE HOT WATER (LTHW) AT 110 DEGREES (MAX.) F, VERIFY LTHW FROM ALL LAVATORY FAUCETS, ANY OTHER REQUIRED FIXTURES (VERIFY), PROVIDE/VERIFY ASSE 1070 THERMOSTATIC MIXING VALVE WHERE REQUIRED, ASSE 1017 WHERE REQUIRED, AND ASSE 1016 THERMOSTATIC/PRESSURE BALANCING VALVES WHERE REQUIRED (SHOWERS, WITH MAX. SETTING OF 120 DEG. F), AND PER CODE WHETHER OR NOT SHOWN OR NOTED ON PLANS.
- PROVIDE CLEANOUTS AS REQUIRED BY CODE. NOT MORE THAN 100 FEET FOR 4" DRAIN.
- PROPERLY SEAL ALL PIPING PENETRATIONS PER APPLICABLE PENETRATION SYSTEM DETAIL (THIS SHEET) THROUGH FIRE BARRIER WALLS/FLOORS/CEILINGS-- ALL MAY NOT BE SHOWN. VERIFY RATINGS/BARRIERS W/ARCH. PROVIDE CAST IRON FOR ALL DWV PIPING THROUGH FIRE BARRIERS.

SYMBOL LEGEND -- PLUMBING

SYMBOL	DESCRIPTION (U.O.N.)
WASTE PIPING (W)	
VENT PIPING (V)	
COLD WATER PIPING (CW)	
HOT WATER PIPING (HW)	
NATURAL GAS PIPING (G)	
SHUT-OFF VALVE	
DIELECTRIC UNION	
CLEANOUT FINISH FLOOR	
WALL/HORIZONTAL CLEANOUT	
CLEANOUT FINISH GRADE--PROVIDE FLUSH CONCRETE COLLAR AND BRONZE COVER	
VENT THRU ROOF (VTR)	
THERMOSTATIC MIXING VALVE (TMV)	
ABOVE FINISHED FLOOR	
UNLESS OTHERWISE NOTED	
2 HOUR FIRE BARRIER	

LOAD SUMMARY -- PLUMBING

WASTE DEMAND (FU)	WATER DEMAND (FU)	WATER DEMAND (GPM)
79.0	134.5	75.9

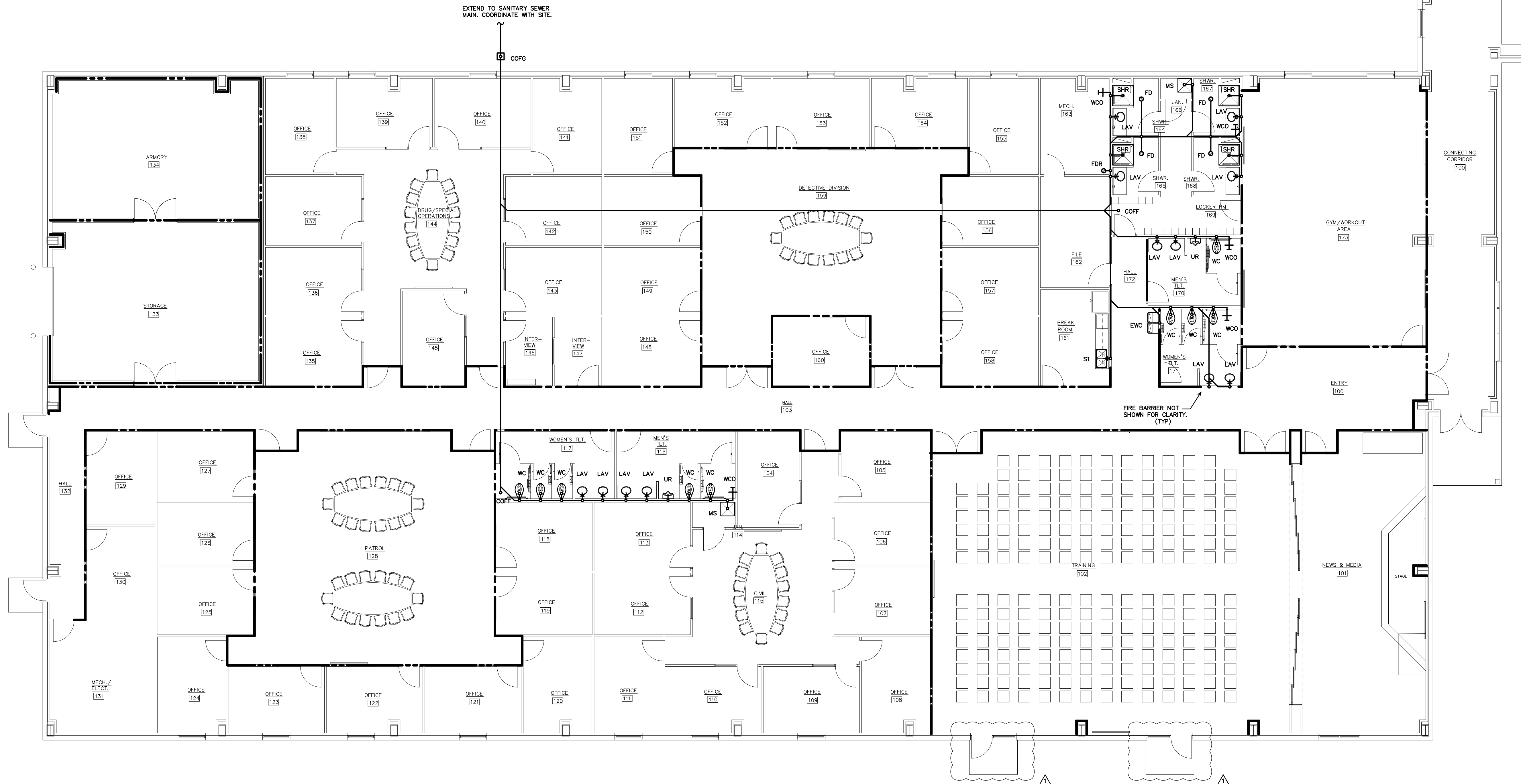
FIXTURE SCHEDULE -- PLUMBING *

EWC *	HIGH/LOW ELECTRIC WATER COOLER WITH BOTTLE FILLER ELKAY DUAL LEVEL ELECTRIC WATER COOLER WITH FILTERED BOTTLE FILLER LZSTBLWS, ADA COMPLIANT, PIPE TO SINGLE DRAIN AND SUPPLY LINE. VERIFY INSTALLATION CLEARANCE REQUIREMENTS PRIOR TO ORDERING. VERIFY OPTIONS-- HI/LO SIDE, FINISH, ETC., WITH OWNER AND ARCHITECT.	MS *	MOP SINK BASIN WITH FAUCET BASIN-- MUSTEE MODEL 63M, 24" X 24" X 10" MOLDED MOP RECEPTOR, 3" DRAIN SIZE. INTEGRAL DRAIN REQUIRES MINIMUM 6" DIAMETER X 2 1/4" DEEP RECESS IN SUBFLOOR. LEVEL AS NEEDED, USE WEDGE-LOCK SEAL PER MANUFACTURER'S SPECIFICATIONS. USE WATER TO CHECK FOR PROPER DRAINAGE UPON ATTACHING DRAIN PIPE AND PRIOR TO FINISHING WALLS. VERIFY SIZE PRIOR TO ORDERING. FAUCET-- MUSTEE MODEL 63.600A FAUCET WITH VACUUM BREAKER. PROVIDE 5' HOSE W/HANGER BRACKET AND MOP HANGER.
ET-1 *	EXPANSION TANK #1 AMTROL MODEL ST-12, 4.4 GALLON, STEEL CONSTRUCTION, NON-ASME RATED.	SI *	BREAK ROOM SINK ELKAY LR2918 DOUBLE BASIN STAINLESS STEEL SINK (MODEL LRAD2918 IF ADA COMPLIANCE REQUIRED), 18 GA. SELF-RIMMING, FURNISHED WITH THREE FAUCET HOLES AND CENTER DRAIN. PROVIDE ELKAY COMMERCIAL FAUCET MODEL LK810AT08L2 WITH TWO LEVER HANDLES, CHROME PLATED BRASS P-TRAP AND SHUT-OFF VALVES. COORDINATE EXACT UNIT WITH TENANT AND GENERAL CONTRACTOR. COORDINATE SIZE WITH CABINETRY PRIOR TO ORDERING.
ET-2 *	EXPANSION TANK #2 AMTROL MODEL ST-5, 2.0 GALLON, STEEL CONSTRUCTION, NON-ASME RATED.	SHR *	ACCESSIBLE STALL, SHOWER HEAD/FAUCET/ADA ACCESSORIES AQUATIC BATHWARE 1363BPS PRE-FABRICATED FIBERGLASS SHOWER STALL. PROVIDE SYMONS TEMPTROL 96-500-830-L-V-K-ADAMS SHOWER AND HAND SHOWER SYSTEM. PROVIDE ALL OTHER COMPONENTS IF REQUIRED FOR ADA COMPLIANCE, GRAB BAR, SEAT, CURTAIN OR DOOR, ETC. COORDINATE HANDING W/OWNER, ROUTE PLUMBING AS REQUIRED.
EWH-1 *	ELECTRIC WATER HEATER #1 A.O. SMITH MODEL DRE-80-9, 80 GALLON, 9,000 WATT, 208V, 3 PH. 46 GPH RECOVERY AT 80 DEGREE (F) RISE. 1-1/4" INLET AND OUTLET. PROVIDE DRAIN PAN, EXPANSION TANK AND PRESSURE RELIEF VALVE. VERIFY INSTALLATION CLEARANCES PRIOR TO ORDERING.	TMV-1 *	THERMOSTATIC MIXING VALVE #1 (ASSE 1017) WATTS SERIES LFMMV MIXING VALVE WITH CHECK VALVES. INSTALL IN MAINTENANCE ACCESSIBLE LOCATION AS REQUIRED. SET HW OUTFLOW TO SPECIFIED TEMPERATURE: FOR HTHW-- 120 DEG. F (MAX.), FOR LTHW-- 110 DEG. F (MAX.).
EWH-2 *	ELECTRIC WATER HEATER #2 A.O. SMITH MODEL EWS-20, 19 GALLON, 2500 WATTS, 120V, 3/4" INLET AND OUTLET. PROVIDE DRAIN PAN, EXPANSION TANK AND PRESSURE RELIEF VALVE. VERIFY INSTALLATION CLEARANCES PRIOR TO ORDERING.	TMV-2 *	THERMOSTATIC MIXING VALVE #2 (ASSE 1070) WATTS LFVSC-B 'LEAD FREE' GUARDIAN. INSTALL IN MAINTENANCE ACCESSIBLE ONLY LOCATION BELOW LAV/SINK OR AS REQUIRED. SET HW OUTFLOW TO SPECIFIED TEMPERATURE: FOR LTHW-- 110 DEG. F (MAX.).
FD *	FLOOR DRAIN ZURN MODEL Z415 WITH HEEL-PROOF TYPE B STRAINER, CAST IRON W/NICKEL BRONZE TOP, 5" STRAINER WITH 3" CONNECTION. PROVIDE TRAP PRIMER CONNECTION IF REQUIRED.	UR *	URINAL KOHLER MODEL K-5016-ET, 3/4" TOP SPUD, ADA COMPLIANT WITH PROPER INSTALLATION, 0.5 GPF, 2" OUTLET DRAIN, ANSI COMPLIANT. PROVIDE SLOAN MODEL 188-0.5 FLUSHOMETER, 0.5 GPF, 3/4" IPS SUPPLY.
FPHB *	FREEZE PROOF RECESSED HOSE BIBB ENCASED IN FLUSH-TO-WALL BOX ZURN Z-1320-C, 3/4" NON FREEZE WALL HYDRANT W/INTEGRAL BACKFLOW PREVENTER, ENCASED WITH KEY LOCK. VERIFY WALL THICKNESS. PROVIDE WALL BOX AS REQUIRED-- COORDINATE W/BLDG. OWNER, TENANT, ARCH., G.C. VERIFY MOUNTING LOCATION.	VB *	ICE MAKER VALVE BOX OATEY VALVE BOX WITH 3/8" BRONZE SHUT-OFF VALVE. FLUSH TO WALL.
LAV *	LAVATORY (COUNTERTOP) KOHLER PENNINGTON SELF RIMMING COUNTERTOP LAVATORY, K-2196, WHITE COLOR, ADA COMPLIANT, PROVIDE SLOAN OPTIMA #EBF-187 BATTERY OPERATED SENSOR FAUCET. PROVIDE DRAIN WITH GRID STRAINER, P-TRAP AND SHUT-OFF VALVES.	WC *	WATER CLOSET (FLOOR MOUNT FLUSH VALVE) KOHLER HIGHCLIFF WATER CLOSET, K-96057, ADA COMPLIANT, 1.6 GPF. PROVIDE WITH K-4731-C SEAT, WAX SEAL, CLOSET BOLT KIT. FOR UNITS NOT REQUIRING ADA COMPLIANCE (COORDINATE W/ARCHITECT), USE KOHLER WELLCOMME K-96053 IF REQUIRED. PROVIDE SLOAN ROYAL 111-1.6 TOP SPUD FLUSHOMETER.

* OR APPROVED EQUAL. SUBMIT ALL ITEMS FOR APPROVAL BY OWNER AND ARCHITECT PRIOR TO ORDERING.
ALL OTHER PLUMBING FIXTURES SHOWN ARE PROVIDED BY THE OWNER AND INSTALLED BY THE PLUMBING CONTRACTOR. SEE PLANS FOR NUMBER AND LOCATION. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT SERVED.

ENGINEER

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1 DWV PLAN
P-2 SCALE: 1/8" = 1'-0"

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Coastal
Architecture
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Architectural
Design
Planning
Interiors

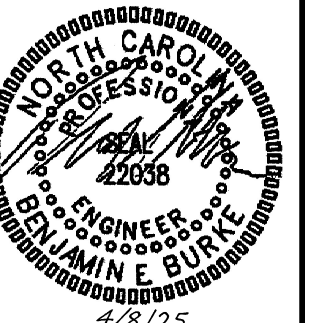


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COLUMBUS COUNTY
SHERIFF'S DEPARTMENT
WHITEVILLE, NORTH CAROLINA

DOI



DIV
PLAN

23029

ISSUED: 12/17/2024

DWG BY: DS

CKD BY: BEB

REVISIONS

4/8/25 FIRE COMMENTS

SHEET NO.

P-2

NOTE:
VERIFY ROUTING OF WATER LINES
W/ARCH. ALL LINES, VALVES, TMV'S,
ETC., SHOWN FOR CLARITY-- VERIFY
LOCATIONS OF ALL COMPONENTS.
COORDINATE WITH ALL TRADES. ALL
COMPONENTS MAY NOT BE SHOWN.
(TYP)

VERIFY QUANTITY/MOUNTING
LOCATION OF FPBH WITH
ARCHITECT, BLDG. OWNER.
(TYP)

KEY NOTE FOR SHEET P-3

1 PROVIDE TMV-2 AT LAVATORY FOR CW
AND 110 DEG. F (MAX) LTHW TO FAUCET.
LOCATE TMV (NOT SHOWN) IN PROPER
MAINTENANCE ACCESSIBLE AREA BELOW
FIXTURE, OR AS REQUIRED.

CW BELOW GRADE
TO RPZ. METER.
COORDINATE W/SITE.

FIRE BARRIER NOT
SHOWN FOR CLARITY.
(TYP)

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

ENGINEER

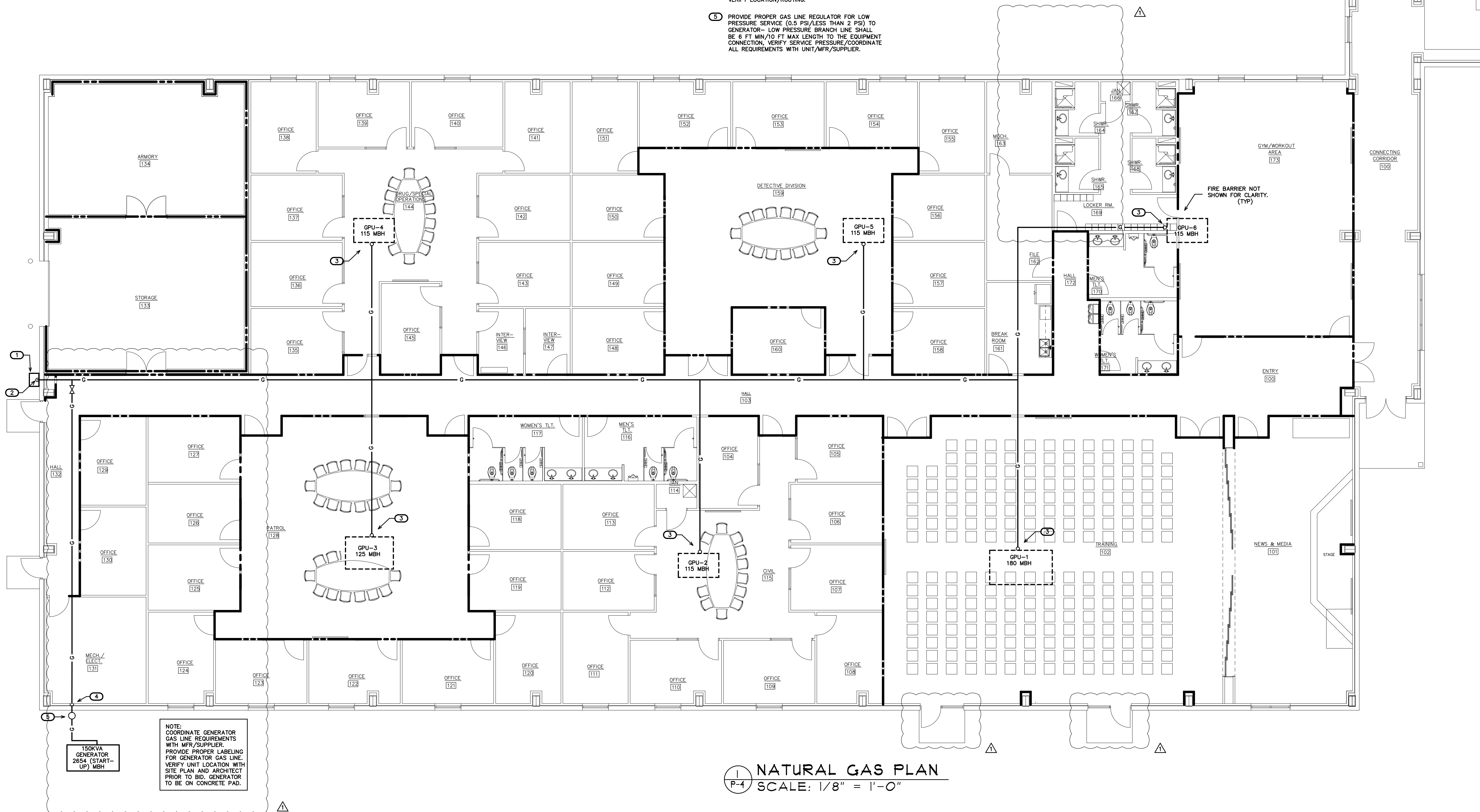
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Corp. License # C-2652

NOTE:
NATURAL GAS PRESSURE TO BE AT 2 PSI.
PROVIDE PROPER LABELING ON ALL GAS
PIPING. PROVIDE PROPER REGULATORS AT
ALL EQUIPMENT CONNECTIONS. PAINT ANY
INTERIOR OR EXTERIOR EXPOSED GAS LINES
PER CODE AND THE BUILDING STANDARD.

NOTE:
VERIFY ALL GAS EQUIPMENT LOAD TOTALS.
VERIFY GAS METER LOCATION PRIOR TO
BID. VERIFY LINE SIZES, TOTAL DEVELOPED
LINE LENGTHS. NOTIFY THE ENGINEER OF
ANY DISCREPANCIES FOR REQUIRED REVIEW
AND/OR RESIZING OF GAS LINES.

KEY NOTES FOR SHEET P-4

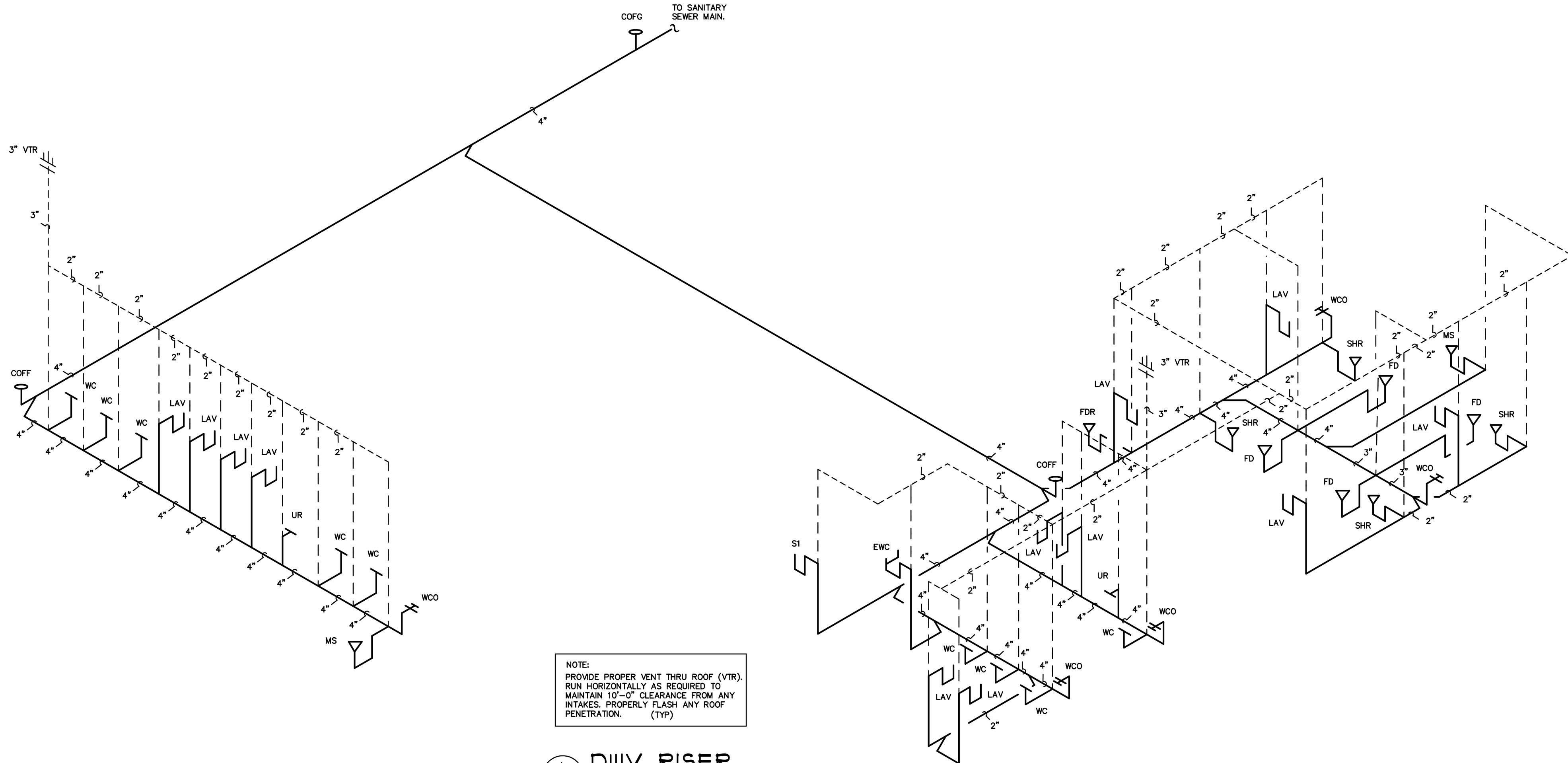
- 1 PROVIDE 2 PSI NATURAL GAS SERVICE/METER.
VERIFY LOCATION, COORDINATE WITH LOCAL GAS
COMPANY, BUILDING OWNER.
- 2 RISE TO RUN GAS LINE ABOVE CEILING. VERIFY
LOCATION/ROUTING. COORDINATE W/ALL TRADES.
- 3 RISE THRU ROOF, PROPERLY SEAL PENETRATION.
CONNECT TO NEW HVAC GAS PACKAGE UNIT (GPU)
ROOF. COORDINATE LOCATION WITH EQUIPMENT,
MECHANICAL PLANS. PROVIDE REGULATOR.
- 4 DROP TO RUN ABOVE EXT. GRADE TO GENERATOR.
VERIFY LOCATION/ROUTING.
- 5 PROVIDE PROPER GAS LINE REGULATOR FOR LOW
PRESSURE SERVICE (0.5 PSI/LESS THAN 2 PSI) TO
GENERATOR- LOW PRESSURE BRANCH LINE SHALL
BE 6 FT MIN/10 FT MAX LENGTH TO THE EQUIPMENT
CONNECTION, VERIFY SERVICE PRESSURE/COORDINATE
ALL REQUIREMENTS WITH UNIT/MFR/SUPPLIER.



1 NATURAL GAS PLAN
P-4 SCALE: 1/8" = 1'-0"

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NOTE:
PROVIDE PROPER VENT THRU ROOF (VTR).
RUN HORIZONTALLY AS REQUIRED TO
MAINTAIN 10'-0" CLEARANCE FROM ANY
INTAKES. PROPERLY FLASH ANY ROOF
PENETRATION. (TYP)

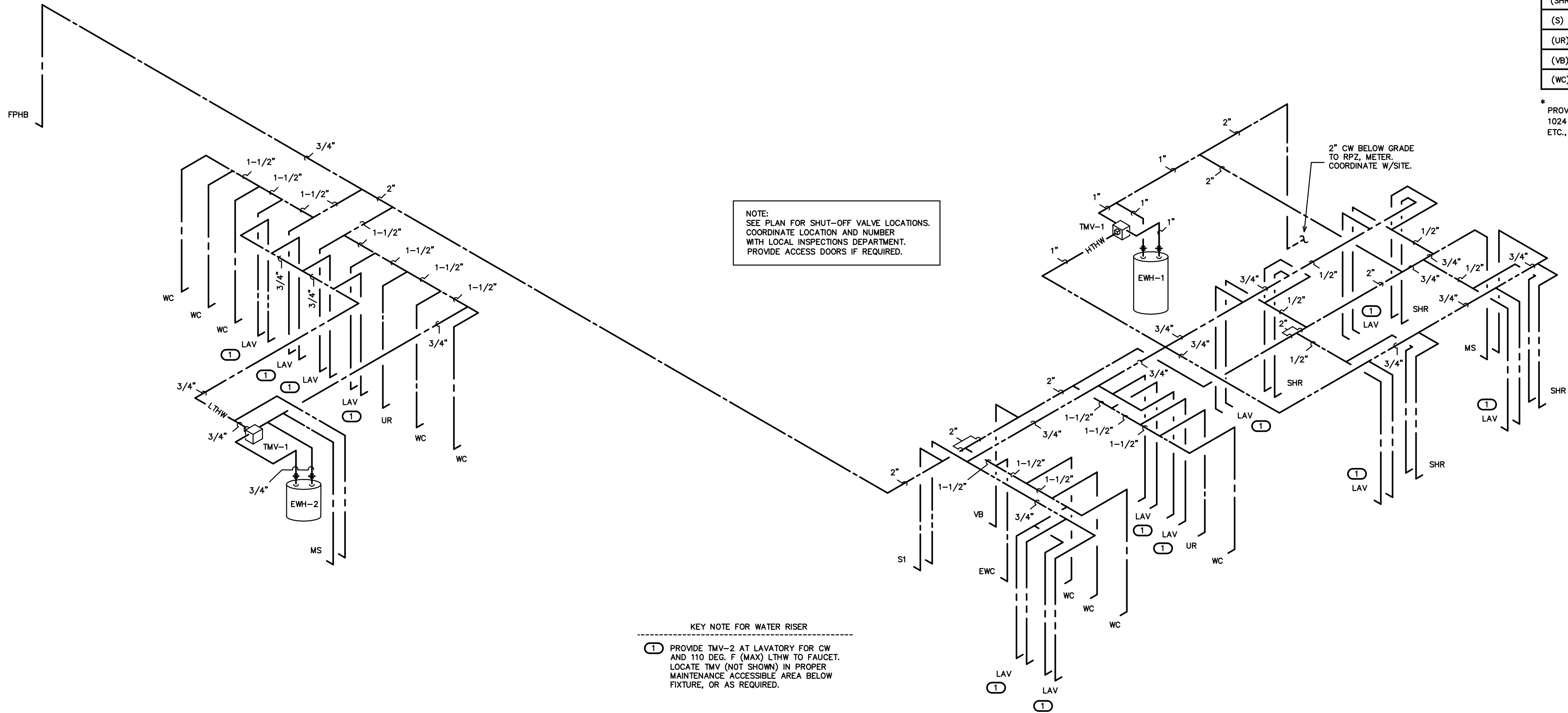
1 DWV RISER
SCALE: NTS

DWV/WATER RISER NOTES:
REPRESENTATIVE SIZES ARE GIVEN FOR EACH TYPE OF FIXTURE.
SEE PIPE SIZING SCHEDULE.
MINIMUM 2" DRAIN LINE SIZE UNDER SLAB.
MAINTAIN PIPE SIZES SHOWN UNTIL LARGER SIZE IS REACHED.
PIPE SIZES ARE MINIMUMS FOR INDIVIDUAL FIXTURES U.O.N.

(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

PIPE SIZING SCHEDULE				
FIXTURE TYPE	DRAIN	VENT	CW	HW
(EWC) ELECTRIC WATER COOLER	1-1/4"	1-1/4"	1/2"	-
(FD) FLOOR DRAIN	3"	1-1/2"	-	-
(FDR) FLOOR DRAIN- RECESSED	2"	1-1/4"	-	-
(FPHB) FREEZE PROOF HOSE BIBB	-	-	1/2"	-
(LAV) LAVATORY	1-1/2"	1-1/4"	1/2"	1/2"
(MS) MOP SINK	3"	1 1/2"	1/2"	1/2"
(SHR) SHOWER	2"	1-1/4"	1/2"	1/2"
(S) SINK	1-1/2"	1-1/4"	1/2"	1/2"
(UR) URINAL	2"	1-1/4"	3/4"	-
(VB) VALVE BOX	-	-	1/2"	-
(WC) FLUSH VALVE WATER CLOSET	3"	1 1/2"	1"	-

* PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3, EX: ASSE 1024 (WATTS SERIES 7 OR EQUAL) ASSE 1022 (WATTS SERIES SD-3 EQUAL) ETC., WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.



NOTE:
SEE PLAN FOR SHUT-OFF VALVE LOCATIONS.
COORDINATE LOCATION AND NUMBER
WITH LOCAL INSPECTIONS DEPARTMENT.
PROVIDE ACCESS DOORS IF REQUIRED.

KEY NOTE FOR WATER RISER
1 PROVIDE TMV-2 AT LAVATORY FOR CW AND 110 DEG. F. (MAX) LTHW TO FAUCET. LOCATE TMV (NOT SHOWN) IN PROPER MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, OR AS REQUIRED.

2 WATER RISER
SCALE: NTS

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2018 NCSBC, FUEL GAS CODE- TABLE 402.4(5)
NOTE:
GAS PIPE SIZES BASED UPON AN INITIAL PRESSURE OF 2 PSI AND A
PRESSURE DROP OF 1 PSI AT 250 FEET IN DEVELOPED LENGTH.
PIPE SIZES SHOWN ARE MINIMUM NOMINAL INSIDE DIAMETER.
TOTAL CONNECTED LOAD (OVERALL) = 3,418,500 BTUH

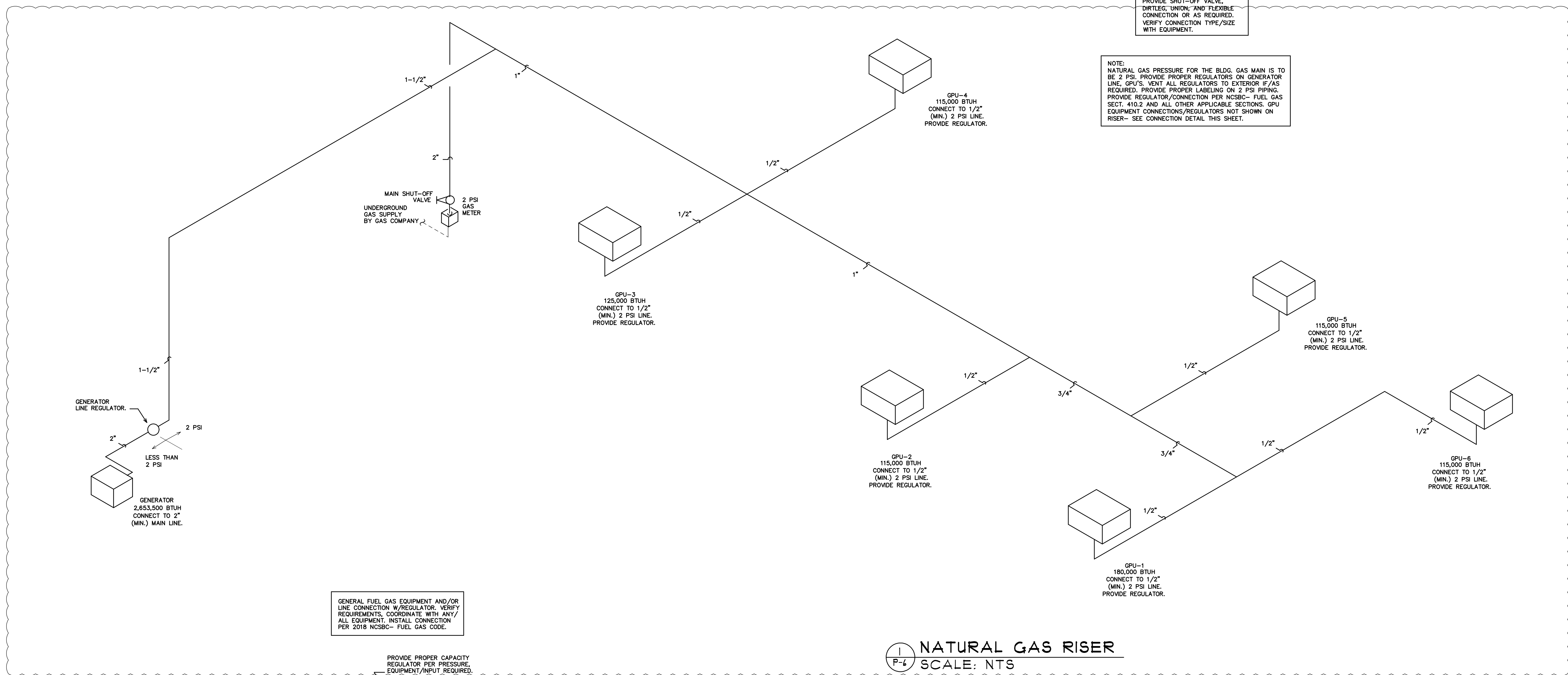
2018 NCSBC, FUEL GAS CODE- TABLE 402.4(2)
GENERATOR LOW PRESSURE LINE NOTE:
GAS PIPE SIZES BASED UPON AN INITIAL PRESSURE OF LESS THAN 2 PSI
AND A PRESSURE DROP OF 1/2" WC AT 10 FEET IN DEVELOPED LENGTH.
PIPE SIZES SHOWN ARE MINIMUM NOMINAL INSIDE DIAMETER.
TOTAL CONNECTED LOAD (GENERATOR ONLY) = 2,653,500 BTUH

NOTE:
GAS PIPING SHALL BE BLACK STEEL, SCHEDULE 40 WITH
SCREWED (LESS THAN 2-1/2" DIA. PIPING) OR WELDED
(GREATER THAN OR EQUAL TO 2-1/2" DIA. PIPING) FITTINGS.
TEST, LABEL AND INSTALL ALL PIPING PER THE NCSBC.

GPU CONNECTION NOTE:
PROVIDE PROPER REGULATOR AT EACH
PIECE OF EQUIPMENT. PROVIDE SHUT-OFF
VALVE, DIRTLEG, UNION, AND FLEXIBLE
CONNECTION OR AS REQUIRED TO EACH
PIECE OF EQUIPMENT. VERIFY CONNECTION
TYPE/SIZE WITH EACH PIECE OF EQUIPMENT.

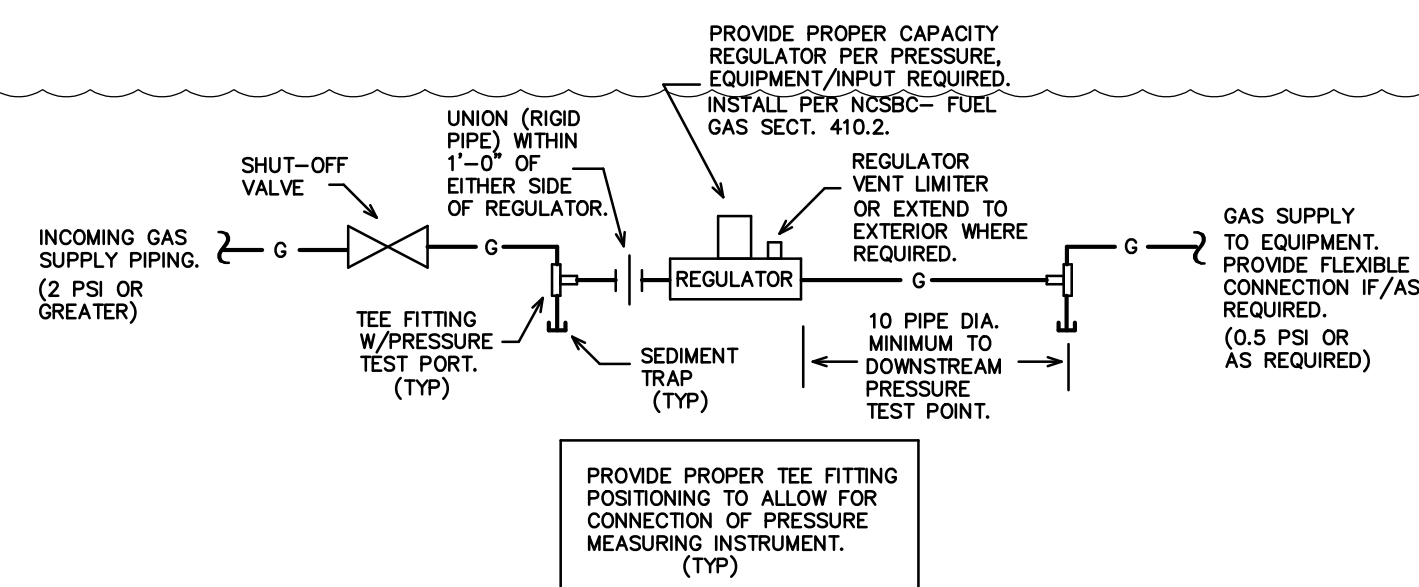
GENERATOR CONNECTION NOTE:
PROVIDE SHUT-OFF VALVE,
DIRTLEG, UNION, AND FLEXIBLE
CONNECTION OR AS REQUIRED.
VERIFY CONNECTION TYPE/SIZE
WITH EQUIPMENT.

NOTE:
NATURAL GAS PRESSURE FOR THE BLDG. GAS MAIN IS TO
BE 2 PSI. PROVIDE PROPER REGULATORS ON GENERATOR
LINE, GPU'S. VENT ALL REGULATORS TO EXTERIOR IF/AS
REQUIRED. PROVIDE PROPER LABELING ON 2 PSI PIPING.
PROVIDE REGULATOR/CONNECTION PER NCSBC- FUEL GAS
SECT. 410.2 AND ALL OTHER APPLICABLE SECTIONS. GPU
EQUIPMENT CONNECTIONS/REGULATORS NOT SHOWN ON
RISER- SEE CONNECTION DETAIL THIS SHEET.



GENERAL FUEL GAS EQUIPMENT AND/OR
LINE CONNECTION W/REGULATOR. VERIFY
REQUIREMENTS. COORDINATE WITH ANY
ALL EQUIPMENT. INSTALL CONNECTION
PER 2018 NCSBC- FUEL GAS CODE.

NATURAL GAS RISER
SCALE: NTS



REDUCED LINE PRESSURE CONNECTION DETAIL
SCALE: NTS

NOTE:
NATURAL GAS PRESSURE TO BE AT 2 PSI.
PROVIDE PROPER LABELING ON ALL GAS
PIPING. PROVIDE PROPER REGULATORS AT
ALL EQUIPMENT CONNECTIONS. PAINT ANY
INTERIOR OR EXTERIOR EXPOSED GAS LINES
PER CODE AND THE BUILDING STANDARD.

KEY NOTES FOR SHEET P-7

- 1 PROVIDE 2 PSI NATURAL GAS SERVICE/METER.
VERIFY LOCATION. COORDINATE WITH LOCAL GAS
COMPANY, BUILDING OWNER.
- 2 DROP TO RUN ABOVE EXT. GRADE TO GENERATOR.
VERIFY LOCATION/ROUTING.
- 3 PROVIDE PROPER GAS LINE REGULATOR FOR LOW
PRESSURE SERVICE (0.5 PSI/LESS THAN 2 PSI) TO
GENERATOR- LOW PRESSURE BRANCH LINE SHALL
BE 6 FT MIN/10 FT MAX LENGTH TO THE EQUIPMENT
CONNECTION. VERIFY SERVICE PRESSURE/COORDINATE
ALL REQUIREMENTS WITH UNIT/MFR/SUPPLIER.

NOTE:
VERIFY ALL GAS EQUIPMENT LOAD TOTALS.
VERIFY GAS METER LOCATION PRIOR TO
BID. VERIFY LINE SIZES. TOTAL DEVELOPED
LINE LENGTHS. NOTIFY THE ENGINEER OF
ANY DISCREPANCIES FOR REQUIRED REVIEW
AND/OR RESIZING OF GAS LINES.

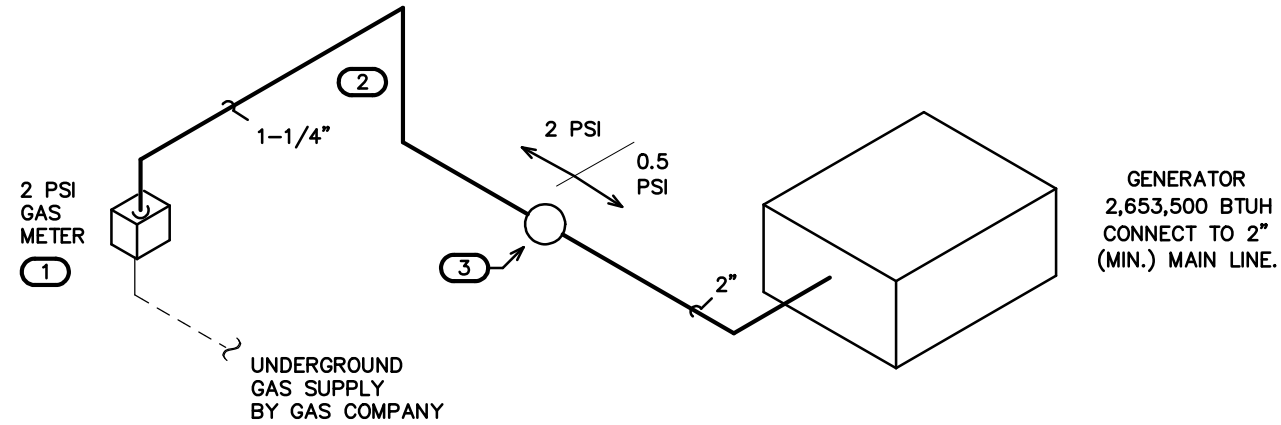
2018 NCSBC, FUEL GAS CODE- TABLE 402.4(5)
NOTE:
GAS PIPE SIZES BASED UPON AN INITIAL PRESSURE OF 2 PSI AND A
PRESSURE DROP OF 1 PSI AT 100 FEET IN DEVELOPED LENGTH.
PIPE SIZES SHOWN ARE MINIMUM NOMINAL INSIDE DIAMETER.
TOTAL CONNECTED LOAD (OVERALL) = 2,653,500 BTUH

2018 NCSBC, FUEL GAS CODE- TABLE 402.4(2)
GENERATOR LOW PRESSURE LINE NOTE:
GAS PIPE SIZES BASED UPON AN INITIAL PRESSURE OF LESS THAN 2 PSI
AND A PRESSURE DROP OF 1/2" WC AT 10 FEET IN DEVELOPED LENGTH.
PIPE SIZES SHOWN ARE MINIMUM NOMINAL INSIDE DIAMETER.
TOTAL CONNECTED LOAD (GENERATOR ONLY) = 2,653,500 BTUH

NOTE:
GAS PIPING SHALL BE BLACK STEEL, SCHEDULE 40 WITH
SCREWED (LESS THAN 2-1/2" DIA. PIPING) OR WELDED
(GREATER THAN OR EQUAL TO 2-1/2" DIA. PIPING) FITTINGS.
TEST, LABEL AND INSTALL ALL PIPING PER THE NCSBC.

NOTE:
NATURAL GAS PRESSURE FOR THE BLDG. GAS MAIN IS TO
BE 2 PSI. PROVIDE PROPER REGULATORS ON GENERATOR
LINE. GPU'S VENT ALL REGULATORS TO EXTERIOR IF/AS
REQUIRED. PROVIDE PROPER LABELING ON 2 PSI PIPING.
PROVIDE REGULATOR/CONNECTION PER NCSBC- FUEL GAS
SECT. 410.2 AND ALL OTHER APPLICABLE SECTIONS. GPU
EQUIPMENT CONNECTIONS/REGULATORS NOT SHOWN ON
RISER- SEE CONNECTION DETAIL THIS SHEET.

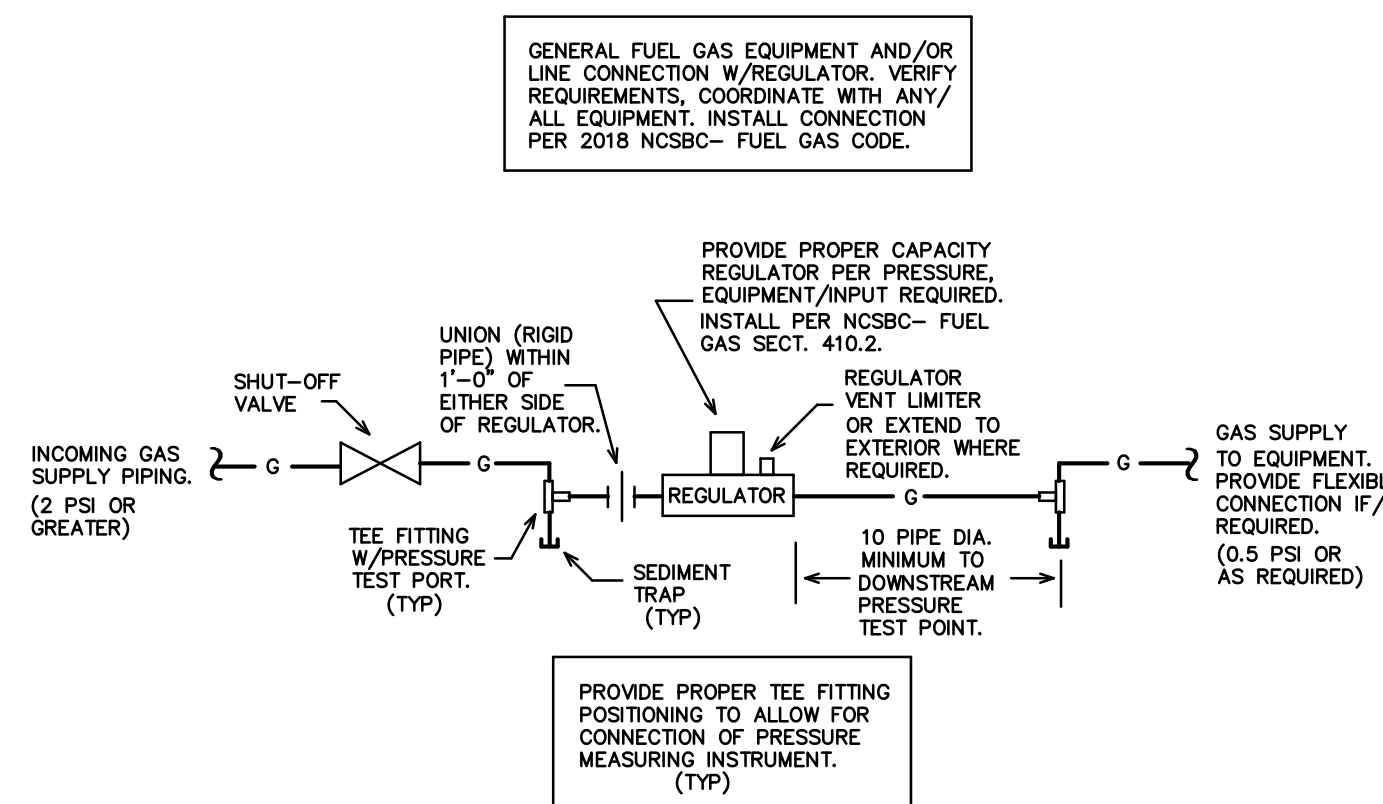
2 EXISTING BLDG.- NATURAL GAS PLAN
SCALE: NOT TO SCALE



NOTE:
COORDINATE NEW 2 PSI
SERVICE WITH GAS COMPANY.
FIELD VERIFY LOCATION
PRIOR TO BID.

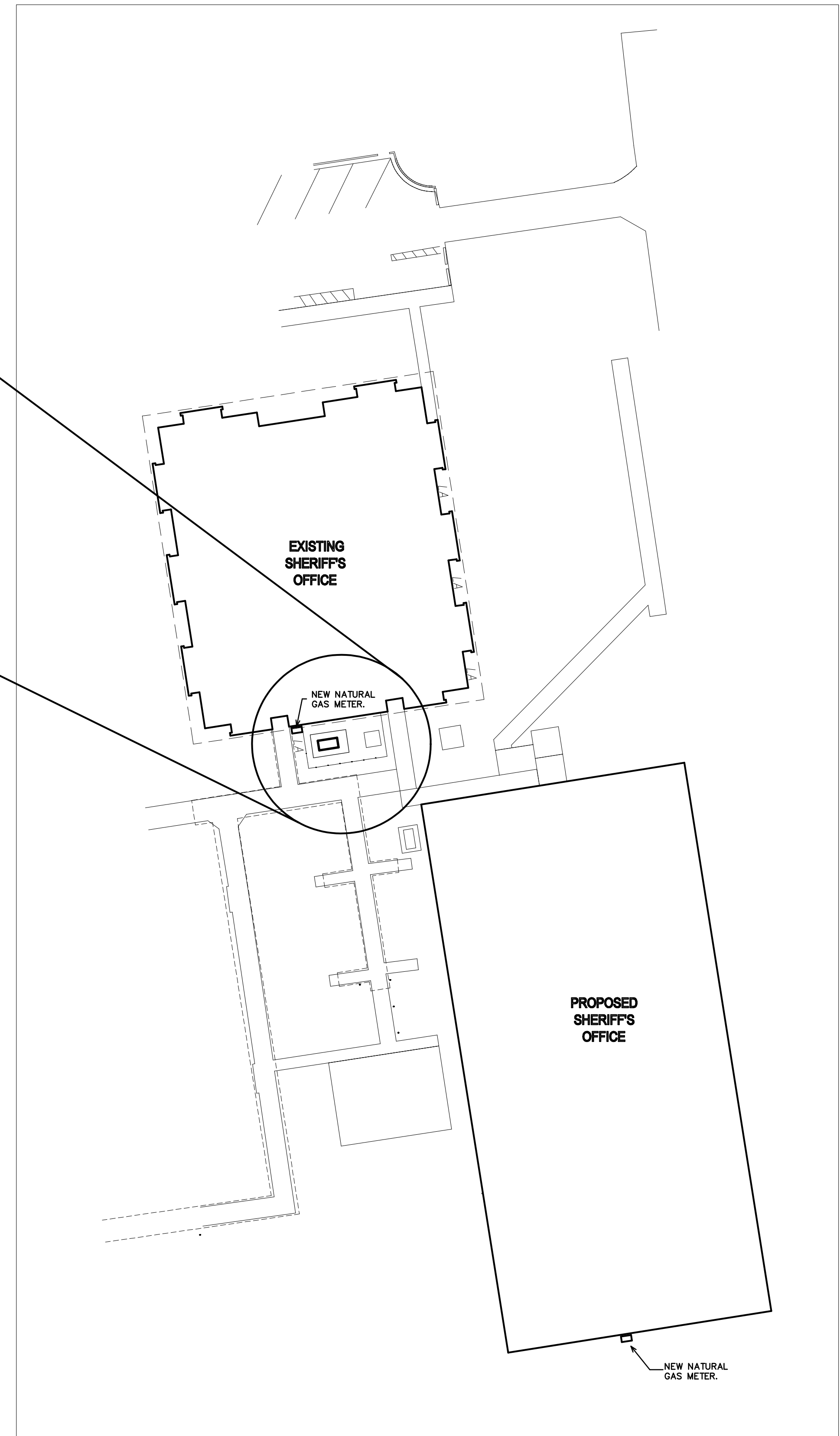
GENERATOR CONNECTION NOTE:
PROVIDE SHUT-OFF VALVE,
DIRTLES UNION, AND FLEXIBLE
CONNECTION OR AS REQUIRED.
VERIFY CONNECTION TYPE/SIZE
WITH EQUIPMENT.

3 EXISTING BLDG.- NATURAL GAS RISER
SCALE: NOT TO SCALE



4 REDUCED LINE PRESSURE CONNECTION DETAIL
SCALE: NOT TO SCALE

1 KEYPLAN - EXISTING BLDG.
SCALE: NOT TO SCALE



GAS PACK SCHEDULE	
GAS PACK UNIT #1 (GPU-1)	* CARRIER MODEL #48HCED14A1A15-0F0A0 GAS HEAT ELECTRIC COOLING SINGLE PACKAGE UNIT; 12.2 EER; 146,000 BTUH NET COOLING; 5000 CFM; 208 VOLT, 3 PHASE; COMP (2) @ 19.6 RLA EA; OPM (3) @ 1.5 FLA; IFM 8.4 FLA; 57 MCA, 70A MOPP; 12.5 TONS. PROVIDE PROGRAMMABLE THERMOSTAT/HUMIDISTAT. ENTHALPY BASED ECONOMIZER WITH BAROMETRIC RELIEF DAMPER, "HUMIDIMIZER" HOT GAS REHEAT, ACCESS PANELS, FACTORY ROOF CURB, FILTER RACK, AND COIL HAIL GUARDS. 180,000 BTUH INPUT NATURAL GAS. PROVIDE MOTORIZED DAMPER TO CLOSE OUTSIDE AIR INTAKE WHEN UNIT IS NOT IN USE PER 2018 NC ENERGY CONSERVATION CODE.
GAS PACK UNIT #2 (GPU-2)	* CARRIER MODEL #48HCER05A2A5-0A0A0 GAS HEAT ELECTRIC COOLING SINGLE PACKAGE UNIT; 12.4 EER; 48,500 BTUH NET COOLING; 1400 CFM; 208 VOLT, 3 PHASE; COMP @ 19.6 RLA EA; OPM 2 @ 1.5 FLA; IFM 5.2 FLA; 24 MCA, 30A MOPP; 4 TONS. PROVIDE PROGRAMMABLE THERMOSTAT/HUMIDISTAT, "HUMIDIMIZER" HOT GAS REHEAT, ACCESS PANELS, MEDIUM STATIC DRIVE, FILTER RACK, AND COIL GUARDS. 115,000 BTUH INPUT NATURAL GAS. PROVIDE WITH MOTORIZED DAMPER TO CLOSE OUTSIDE AIR INTAKE WHEN UNIT IS NOT IN USE PER 2018 NC ENERGY CODE.
GAS PACK UNIT #3 (GPU-3)	* CARRIER MODEL #48HCED07A2A5-0A0A0 GAS HEAT ELECTRIC COOLING SINGLE PACKAGE UNIT; 12 EER; 73,000 BTUH NET COOLING; 2400 CFM; 208 VOLT, 3 PHASE; COMP @ 19.6 RLA EA; OPM 2 @ 1.5 FLA EA; IFM 5.2 FLA; 33 MCA, 50A MOPP; 6 TONS. PROVIDE PROGRAMMABLE THERMOSTAT/HUMIDISTAT. ENTHALPY BASED ECONOMIZER WITH BAROMETRIC RELIEF DAMPER, "HUMIDIMIZER" HOT GAS REHEAT, ACCESS PANELS, FILTER RACK, AND COIL GUARDS. 125,000 BTUH INPUT NATURAL GAS. PROVIDE MOTORIZED DAMPER TO CLOSE OUTSIDE AIR INTAKE WHEN UNIT IS NOT IN USE PER 2018 NC ENERGY CODE.
GAS PACK UNIT #4 (GPU-4)	* CARRIER MODEL #48HCEA06A2A5-0A0A0 GAS HEAT ELECTRIC COOLING SINGLE PACKAGE UNIT; 12.5 EER; 57,500 BTUH NET COOLING; 2000 CFM; 208 VOLT, 3 PHASE; COMP 15.9 RLA; OPM 1.0 FLA; IFM 6.9 FLA; 29 MCA, 40A MOPP; 5 TONS. PROVIDE PROGRAMMABLE THERMOSTAT/HUMIDISTAT, "HUMIDIMIZER" HOT GAS REHEAT, ACCESS PANELS, MEDIUM STATIC DRIVE, FILTER RACK, AND COIL GUARDS. 115,000 BTUH INPUT NATURAL GAS. PROVIDE WITH MOTORIZED DAMPER TO CLOSE OUTSIDE AIR INTAKE WHEN UNIT IS NOT IN USE PER 2018 NC ENERGY CODE.
GAS PACK UNIT #5 (GPU-5)	* CARRIER MODEL #48HCEA06A2A5-0A0A0 GAS HEAT ELECTRIC COOLING SINGLE PACKAGE UNIT; 12.5 EER; 57,500 BTUH NET COOLING; 2000 CFM; 208 VOLT, 3 PHASE; COMP 15.9 RLA; OPM 1.0 FLA; IFM 6.9 FLA; 29 MCA, 40A MOPP; 5 TONS. PROVIDE PROGRAMMABLE THERMOSTAT/HUMIDISTAT, "HUMIDIMIZER" HOT GAS REHEAT, ACCESS PANELS, MEDIUM STATIC DRIVE, FILTER RACK, AND COIL GUARDS. 115,000 BTUH INPUT NATURAL GAS. PROVIDE WITH MOTORIZED DAMPER TO CLOSE OUTSIDE AIR INTAKE WHEN UNIT IS NOT IN USE PER 2018 NC ENERGY CODE.
GAS PACK UNIT #6 (GPU-6)	* CARRIER MODEL #48HCEA04A2A5-0A0A0 GAS HEAT ELECTRIC COOLING SINGLE PACKAGE UNIT; 12.4 EER; 36,000 BTUH NET COOLING; 1200 CFM; 208 VOLT, 3 PHASE; COMP 10.4 RLA; OPM 1.0 FLA; IFM 5.2 FLA; 20 MCA, 25A MOPP; 3 TONS. PROVIDE PROGRAMMABLE THERMOSTAT/HUMIDISTAT, "HUMIDIMIZER" HOT GAS REHEAT, ACCESS PANELS, MEDIUM STATIC DRIVE, FILTER RACK, AND COIL GUARDS. 115,000 BTUH INPUT NATURAL GAS. PROVIDE WITH MOTORIZED DAMPER TO CLOSE OUTSIDE AIR INTAKE WHEN UNIT IS NOT IN USE PER 2018 NC ENERGY CODE.

Columbia City Sheriff's Department MI DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE	
DHP-1 OUTDOOR HEAT PUMP UNIT	* MITSUBISHI MODEL #MXZ-2C20NA4, 1.66 TON OUTDOOR HEAT PUMP UNIT, 20 SEER. 208 VOLT, 1 PHASE, CONDENSING UNIT 17.2A MCA, 20A MOP. FAN COIL UNIT IS POWERED VIA FIELD PROVIDED WIRING FROM OUTDOOR UNIT. SERVES (2) INDOOR FAN-COIL UNITS (DFC-1.1, DFC-1.2).
DFC-1.1 DIRECT EXPANSION FAN COIL UNIT	* MITSUBISHI MODEL #MSZ-FS09NAFAN COIL UNIT. NET COOLING CAPACITY = 9,000 BTUH, 145 CFM LO TO 400 CFM HI. 0.75 TON NOMINAL. PROVIDE WIRED PROGRAMMABLE THERMOSTAT, AND CONDENSATE PUMP. FAN MOTOR 0.76, FLA 208 VOLT. SINGLE PH.
DFC-1.2 DIRECT EXPANSION FAN COIL UNIT	* MITSUBISHI MODEL #MSZ-FS09NAFAN COIL UNIT. NET COOLING CAPACITY = 9,000 BTUH, 145 CFM LO TO 400 CFM HI. 0.75 TON NOMINAL. PROVIDE WIRED PROGRAMMABLE THERMOSTAT, AND CONDENSATE PUMP. FAN MOTOR 0.76, FLA 208 VOLT. SINGLE PH.

Columbus City, Sheriff's Department MI EXHAUST FAN SCHEDULE	
EXHAUST FAN #1 (EF-1)	* CARNES MODEL# VCD0250C EXHAUST FAN, 250 CFM @ 1/4" SP, 830 RPM, 2.2 AMPS, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 8" RIGID DUCT TO EXTERIOR, FLASHING AND ROOF CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES.
EXHAUST FAN #2 (EF-2)	* CARNES MODEL# VCD0250C EXHAUST FAN, 250 CFM @ 1/4" SP, 830 RPM, 2.2 AMPS, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 8" RIGID DUCT TO EXTERIOR, FLASHING AND ROOF CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES.
EXHAUST FAN #3 (EF-3)	* CARNES MODEL# VCD0250C EXHAUST FAN, 250 CFM @ 1/4" SP, 830 RPM, 2.2 AMPS, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 8" RIGID DUCT TO EXTERIOR, FLASHING AND ROOF CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES.
EXHAUST FAN #4 (EF-4)	* CARNES MODEL# VCD0202C EXHAUST FAN, 196 CFM @ 1/4" SP, 740 RPM, 1.8 AMPS, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, GRAVITY BACKDRAFT DAMPER, AND FACTORY PREFAB ROOF CURB. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES.
EXHAUST FAN #5 (EF-5)	* CARNES MODEL# VEDK-06-J2 ROOF MOUNTED EXHAUST FAN, 200 CFM @ 0.375" SP, 1200 RPM, 1/8 HP, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, GRAVITY BACKDRAFT DAMPER, AND FACTORY PREFAB ROOF CURB. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES. PROVIDE FACTORY SPEED CONTROLLER FOR BALANCING FAN.

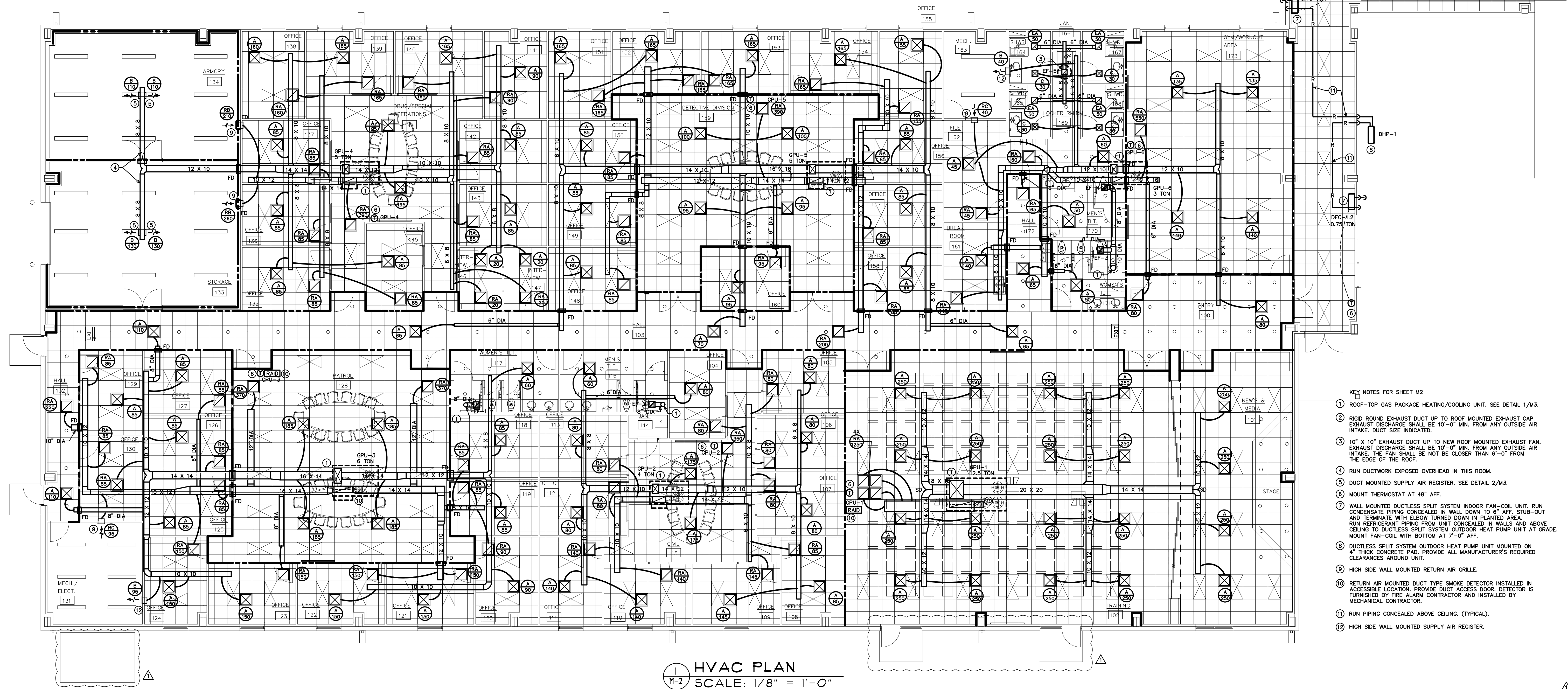
IVF-1

FLEXIBLE DUCTWORK SIZES		
MAXIMUM CFM'S		
SIZES	SUPPLY	RETURN
6"	100	100
8"	175	175
10"	250	250
12"	400	350
14"	550	500
16"	NA	900

(CHANGE OUT EXISTING FLEX DUCTS AND COLLARS AS REQUIRED TO GET NEW CFM'S SHOWN)

FLEXIBLE DUCTWORK NOTES

- 1) INSTALL FLEXIBLE DUCTWORK RUNS AS STRAIGHT AS POSSIBLE.
- 2) DO NOT ALLOW FLEXIBLE DUCT TO SAG BETWEEN SUPPORTS.
- 3) DO NOT STRETCH A SHORT SECTION TO FIT A SLIGHTLY LONGER SECTION. THIS DISTORTS THE DUCT SHAPE AND IMPEDES AIR FLOW.
- 4) DO NOT CRUSH DUCTWORK TO FIT IN A SPACE SMALLER THAN ITS ORIGINAL OUTSIDE DIAMETER. MAXIMUM ALLOWABLE DEFORMATION IS 15% OF ORIGINAL VOLUME.
- 5) USE RIGID 90 DEGREE ELBOWS AT ANY LOCATION WHERE THE DUCTWORK BECOMES DISTORTED.
- 6) EXTREME CARE SHALL BE TAKEN TO ELIMINATE ANY REDUCTION IN FLOW WITHIN THE FLEXIBLE DUCTS. THE MECH. CONTRACTOR WILL BE REQUIRED TO REPLACE THE FLEXIBLE DUCT WITH RIGID IF PROPER FLOW IS NOT OBTAINED.
- 7) SIZE ALL FLEXIBLE DUCT SO AS NOT TO EXCEED MAXIMUM CFM'S GIVEN IN TABLE.



- KEY NOTES FOR SHEET M2
- 1) ROOF-TOP GAS PACKAGE HEATING/COOLING UNIT. SEE DETAIL 1/M3.
 - 2) RIGID ROUND EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST CAP. EXHAUST DISCHARGE SHALL BE 10'-0" MIN. FROM ANY OUTSIDE AIR INTAKE. DUCT SIZE INDICATED.
 - 3) 10" X 10" EXHAUST DUCT UP TO NEW ROOF MOUNTED EXHAUST FAN. EXHAUST DISCHARGE SHALL BE 10'-0" MIN. FROM ANY OUTSIDE AIR INTAKE. THE FAN SHALL BE NOT BE CLOSER THAN 6'-0" FROM THE EDGE OF THE ROOF.
 - 4) RUN DUCTWORK EXPOSED OVERHEAD IN THIS ROOM.
 - 5) DUCT MOUNTED SUPPLY AIR REGISTER. SEE DETAIL 2/M3.
 - 6) MOUNT THERMOSTAT AT 48" AFF.
 - 7) WALL MOUNTED DUCTLESS SPLIT SYSTEM INDOOR FAN-COIL UNIT. RUN CONDENSATE PIPING CONCEALED IN WALL DOWN TO 6" AFF. STUB-OUT AND TERMINATE WITH ELBOW TURNED DOWN IN PLANTED AREA. RUN REFRIGERANT PIPING FROM UNIT CONCEALED IN WALLS AND ABOVE CEILING TO DUCTLESS SPLIT SYSTEM OUTDOOR HEAT PUMP UNIT AT GRADE. MOUNT FAN-COIL WITH BOTTOM AT 7'-0" AFF.
 - 8) DUCTLESS SPLIT SYSTEM OUTDOOR HEAT PUMP UNIT MOUNTED ON 4" THICK CONCRETE PAD. PROVIDE ALL MANUFACTURER'S REQUIRED CLEARANCES AROUND UNIT.
 - 9) HIGH SIDE WALL MOUNTED RETURN AIR GRILLE.
 - 10) RETURN AIR MOUNTED DUCT TYPE SMOKE DETECTOR INSTALLED IN ACCESSIBLE LOCATION. PROVIDE DUCT ACCESS DOOR. DETECTOR IS FURNISHED BY FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
 - 11) RUN PIPING CONCEALED ABOVE CEILING. (TYPICAL).
 - 12) HIGH SIDE WALL MOUNTED SUPPLY AIR REGISTER.

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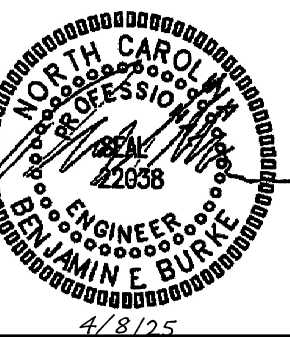


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SHERIFF'S DEPARTMENT
WHITEVILLE, NORTH CAROLINA

DOI

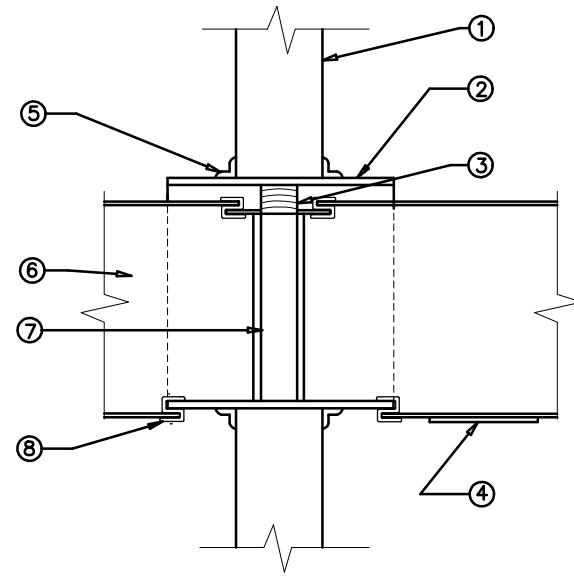


HVAC
PLAN

23029

ISSUED: 12/17/2024
DWG BY: WBE
CKD BY: BEB
REVISIONS
4/08/25 FIRE COMMENTS

SHEET NO.
M-2

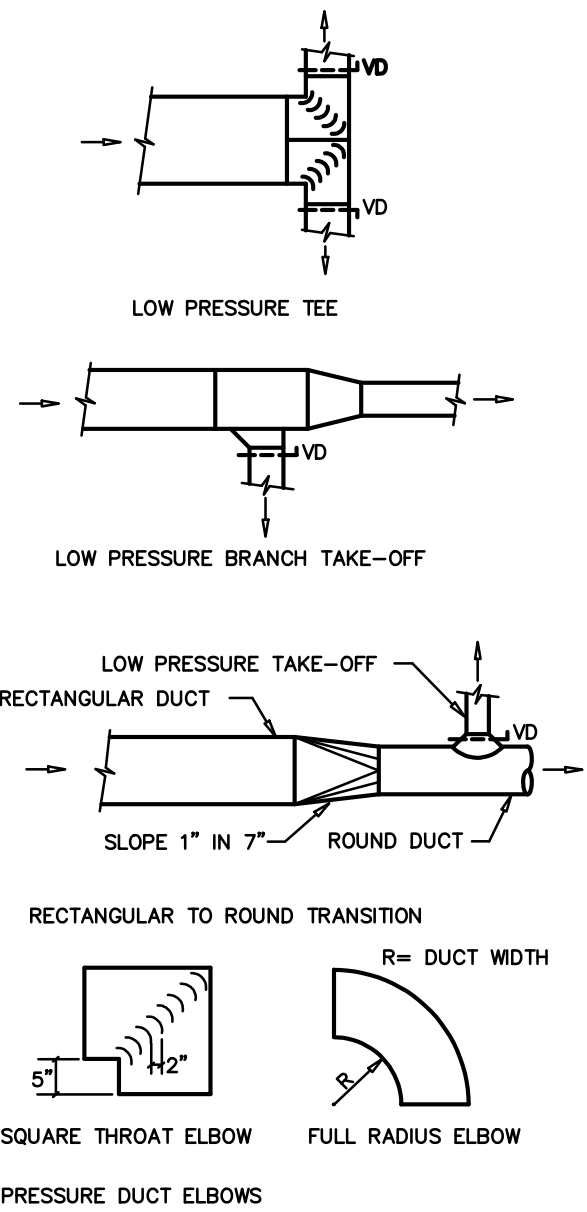


- KEY NOTES FOR 3/M-3
- 2-HOUR RATED GYPSUM BOARD WALL.
 - 14 GALVANIZED STEEL SLEEVE, FASTEN TO FIRE DAMPER FRAME.
 - CURTAIN
 - ACCESS DOOR, TYPICAL AT ALL FIRE DAMPERS.
 - 1-1/2" X 1-1/2" X 1/8" STEEL ANGLE, FASTEN TO SLEEVE.
 - DUCTWORK SIZE VARIES.
 - DYNAMIC FIRE DAMPER.
 - PROVIDE BREAK-AWAY JOINTS AT DUCT CONNECTIONS TO FIRE DAMPER AND SLEEVE.

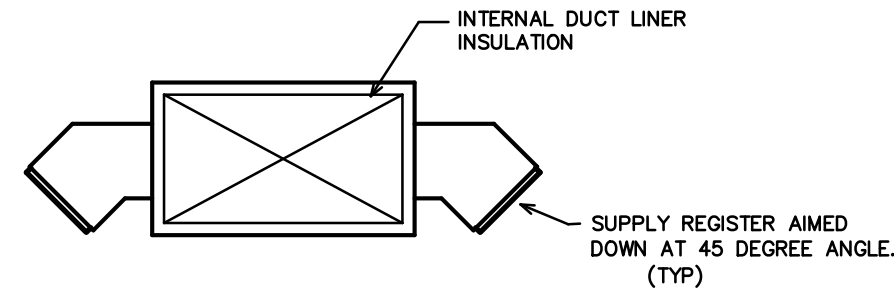
RATED GYPSUM WALL PENETRATION

NOTE: THIS DETAIL IS FOR GENERAL DESIGN INTENT ONLY. INSTALL FIRE DAMPER PER MANUFACTURERS INSTRUCTIONS.

3
M-3 FIRE DAMPER DETAIL
SCALE: NOT TO SCALE

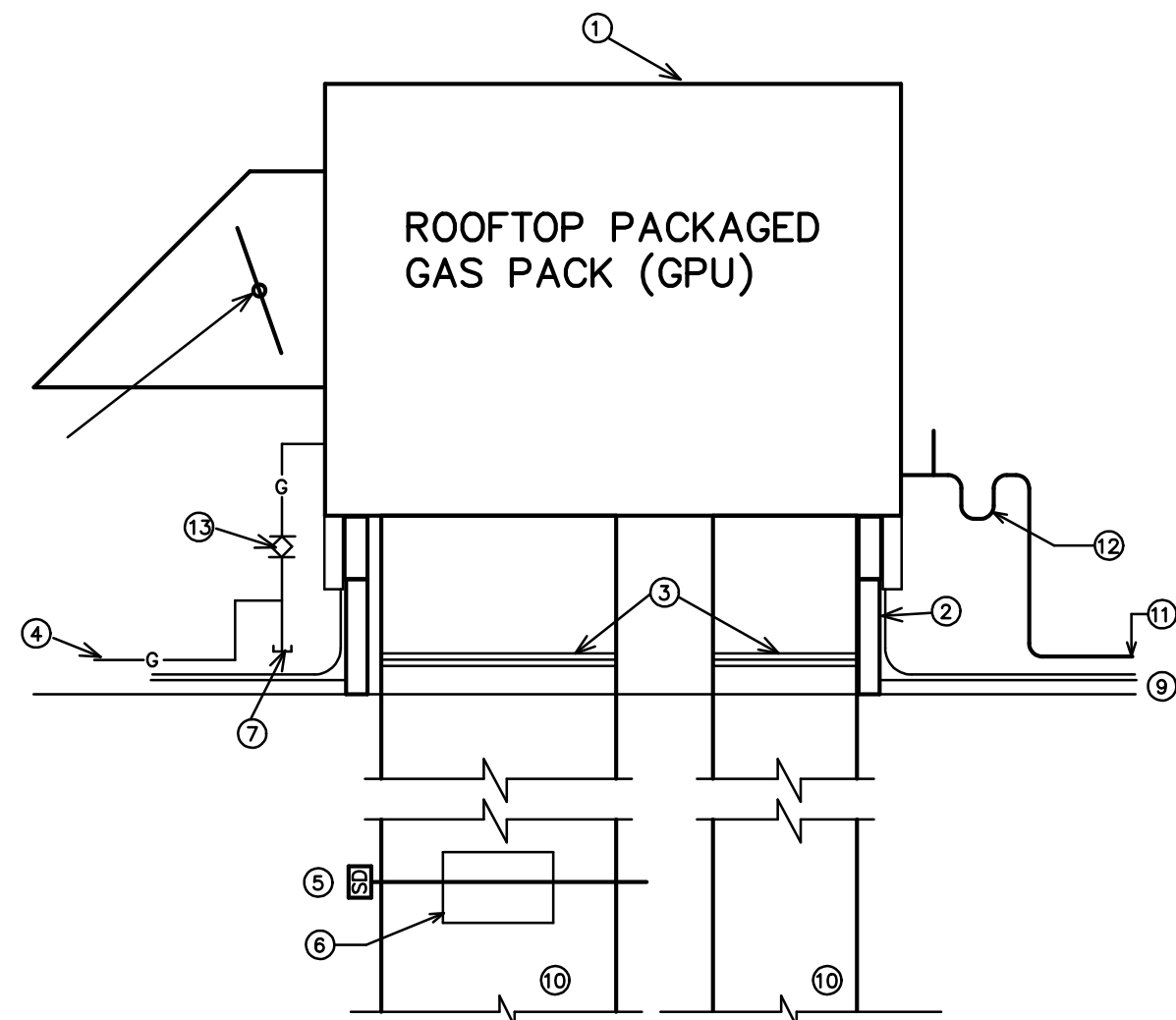


4
M-3 DUCT CONSTRUCTION DETAILS
SCALE: NOT TO SCALE



NOTE:
ALL EXPOSED DUCT SHALL HAVE DUCT LINER INSULATION.

2
M-3 DUCT MOUNTED SUPPLY REGISTER DETAIL
SCALE: NOT TO SCALE



- KEY NOTES FOR 1/M-3
- ROOFTOP NATURAL GAS PACKAGED UNIT PROVIDED MECHANICAL CONTRACTOR.
 - ROOF CURB PROVIDED BY HVAC CONTRACTOR. ALL ROOF WORK SHALL BE DONE LICENSED ROOFING CONTRACTOR HIRED BY THE HVAC CONTRACTOR.
 - FLEXIBLE CONNECTIONS
 - GAS LINE TO UNIT PROVIDED BY PLUMBING CONTRACTOR. FINAL CONNECTION AND START UP BY MECH. CONTRACTOR.
 - INSTALL DUCT SMOKE DETECTOR IN ACCESSIBLE LOCATION. THE DETECTOR SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. SEE SPECIFICATIONS. PROVIDE IN ROOF-TOP UNITS GPU-1 & GPU-3 ONLY.
 - PROVIDE ACCESS DOOR. COORDINATE LOCATION WITH DUCT DETECTOR.
 - 6" DIRT LEG.
 - ECONOMIZER HOOD. SET UNIT CONTROLS TO PROVIDE MINIMUM REQUIRED OUTSIDE AIR WHEN ECONOMIZER IS NOT BEING USED. ECONOMIZER DAMPER SHALL CLOSE WHEN UNIT FAN IS NOT RUNNING.
 - ROOF SYSTEM. COORDINATE TYPE WITH GENERAL CONTRACTOR.
 - DUCT WORK. DROP DOWN INTO SPACE AND CONNECT TO BRANCH DUCT. TRANSITION FROM UNIT CONNECTION SIZES TO DUCT SIZES NOTED ON DRAWING.
 - CONDENSATE DRAIN. RUN TO ROOF DRAIN.
 - PROVIDE CONDENSATE DRAIN TRAP. SIZE PER MANUFACTURERS RECOMMENDATIONS.
 - GAS SHUT-OFF VALVE, UNION AND FLEXIBLE HOSE.

1
M-3 TYPICAL GAS PACKAGE ROOF-TOP UNIT DETAIL
SCALE: NOT TO SCALE

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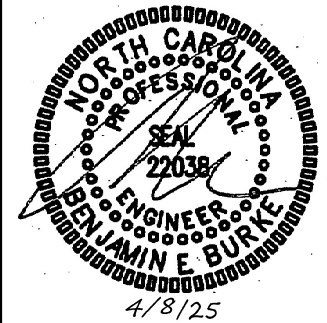


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HVAC
SPECIFICATIONS
& DETAILS

23029

ISSUED: 12/17/2024

DWG BY: WBE

CKD BY: BEB

REVISIONS

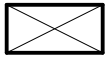
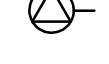
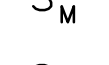
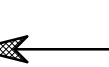
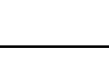
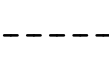
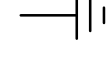
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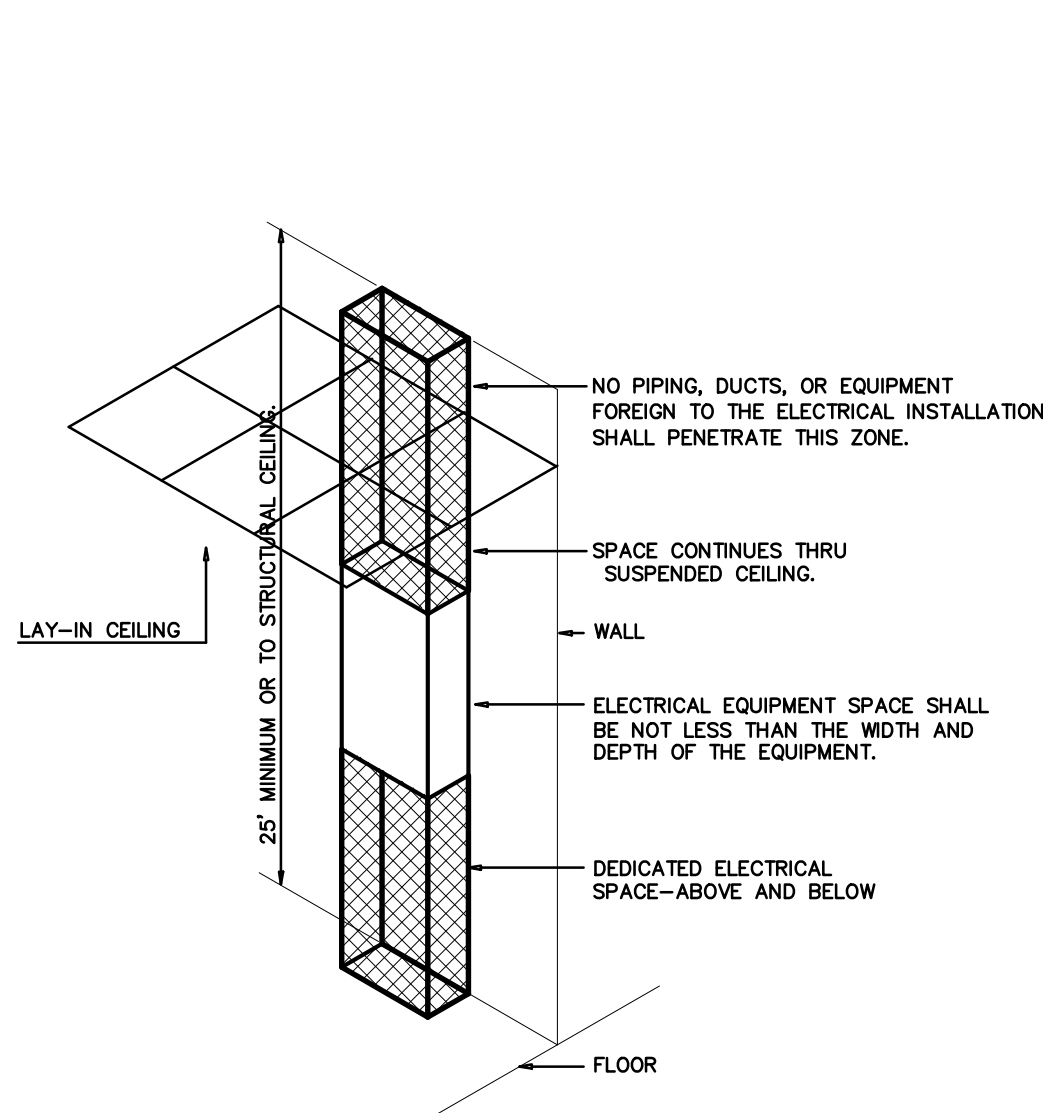
M-3

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.
- ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTORS AND CONDUIT PER NEC.)
- ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F.
- ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.
- CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
- ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.
- THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.
- ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.
- PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURERS RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.
- THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE OUTLETS.

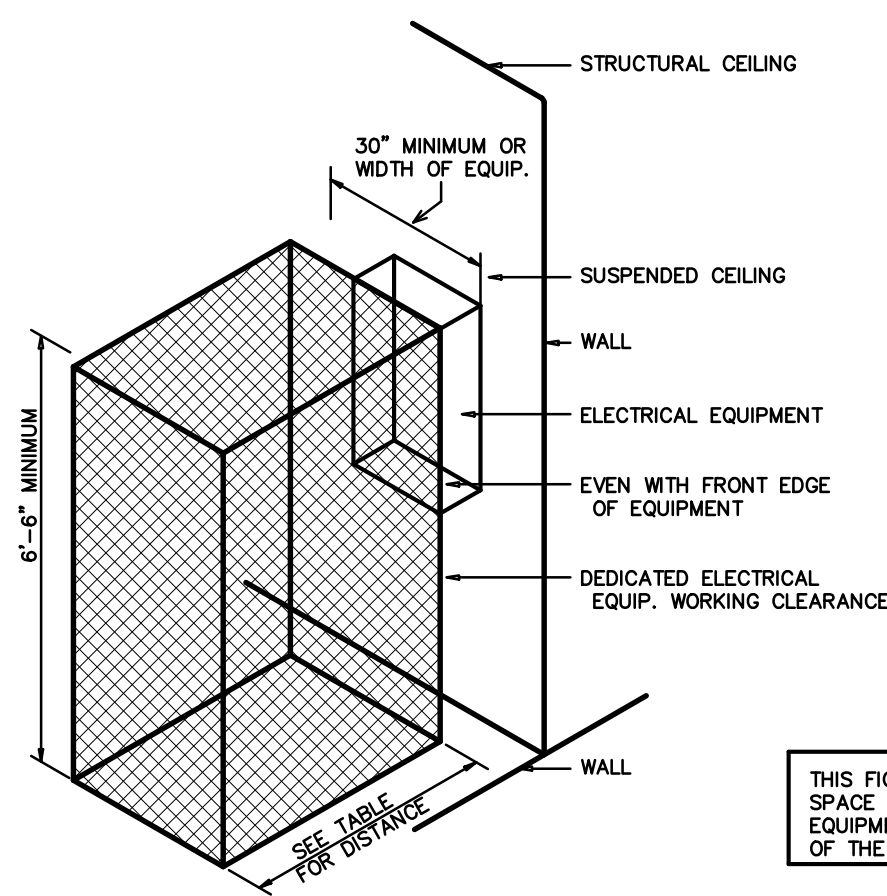
ELECTRICAL LEGEND

-  X LIGHT FIXTURE: LETTER DENOTES FIXTURE TYPE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE).
NL = NIGHT LIGHT (NOT SWITCHED/ALWAYS ON)
-  U DUPLEX RECEPTACLE - 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE; "WP" INDICATES WEATHER PROOF, "GFI" INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED, "U" INDICATES RECEPTACLE WITH (2) USB PORTS.
-  QUADRAPLEX RECEPTACLE - 120V
-  FLOOR OR CEILING OUTLET (AS NOTED) - 120V
-  SPECIAL PURPOSE RECEPTACLE - REFER TO POWER PLAN AND PANEL SCHEDULE
-  S LIGHT SWITCH
-  S_M SWITCH WITH INTEGRAL PIR/US MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.
-  S_D DIMMABLE LIGHT SWITCH
-  M MOTOR RATED SWITCH
-  J JUNCTION BOX
-  TELE/DATA OUTLET - PROVIDE JUNCTION BOX WITH CONDUIT BACK TO MTP. PROVIDE (1) TELEPHONE JACK AND (1) CAT 5 DATA JACK
-  SINGLE-POLE HOMERUN TO PANELBOARD
-  TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD
-  EXIT EXIT LIGHT
-  E EMERGENCY EGRESS FIXTURE
-  PC PHOTOCELL (LED COMPLIANT)
-  BRANCH CIRCUIT WIRING
-  SWITCH LEG
-  GROUND CONNECTION
-  PANEL A DISTRIBUTION PANELBOARD
-  DISCONNECTING MEANS AS REQUIRED BY CODE



ELECTRICAL EQUIPMENT DEDICATED SPACE
PER ARTICLE 110.26.F.1 OF N.E.C.

1 DEDICATED SPACE
SCALE: NTS



ELECTRICAL EQUIPMENT WORKING CLEARANCE
PER ARTICLE 110-26 OF N.E.C.

WORKING CLEARANCES			
VOLTAGE TO GROUND NOMINAL	MIN. CLEAR DISTANCE IN FEET		
0-150	CONDITION: 1	2	3
	3	3	3
151-600	3	3-1/2	4

2 ELECTRICAL CLEARANCES
SCALE: NTS

WHERE THE CONDITIONS ARE AS FOLLOWS:

- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
- EXPOSED LIVE PARTS ON ONE SIDE AND GROUND PARTS ON THE OTHER SIDE.
- EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

APPENDIX B 2018 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 ☒ Energy Cost Budget ☐
- ASHRAE 90.1: Prescriptive ☐ Energy Cost Budget ☐

Lighting Schedule

Lamp type required in fixture
number of lamps in fixture
ballast type used in fixture
number of ballasts in fixture
total wattage in fixture
total interior wattage specified vs. allowed
total exterior wattage specified vs. allowed

See Light Fixture Schedule

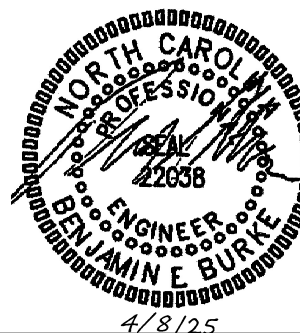
13552VA / 16136VA
580VA / 750VA

Additional Prescriptive Compliance

- ☒ 506.2.1 More Efficient Mechanical Equipment
☒ 506.2.2 Reduced Lighting Power Density
☒ 506.2.3 Energy Recovery Ventilation Systems
☒ 506.2.4 Higher Efficiency Service Water Heater
☒ 506.2.5 On-Site Supply of Renewable Energy
☒ 506.2.6 automatic Daylighting Control System

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ELECTRICAL SPECS

23029

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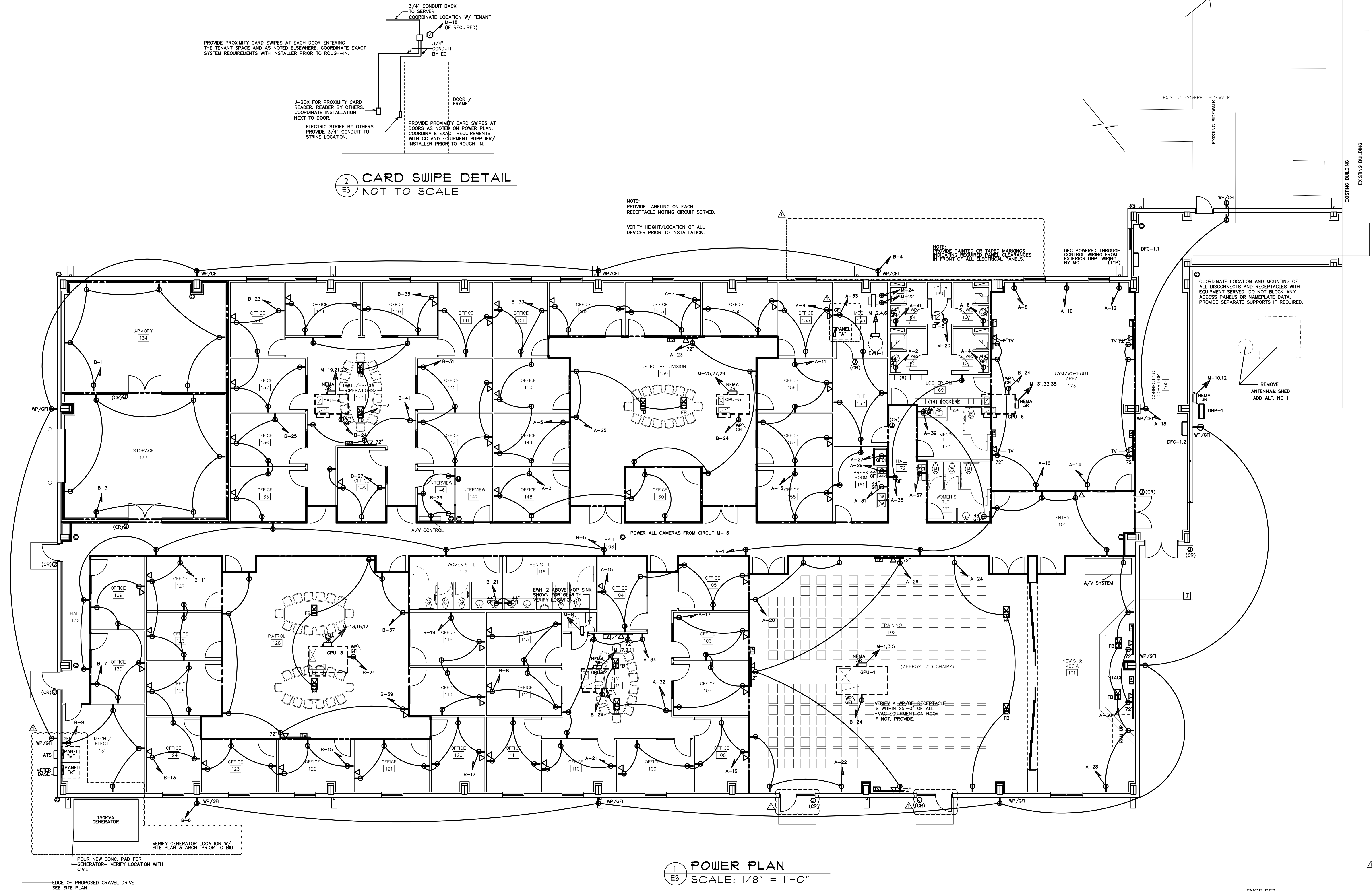
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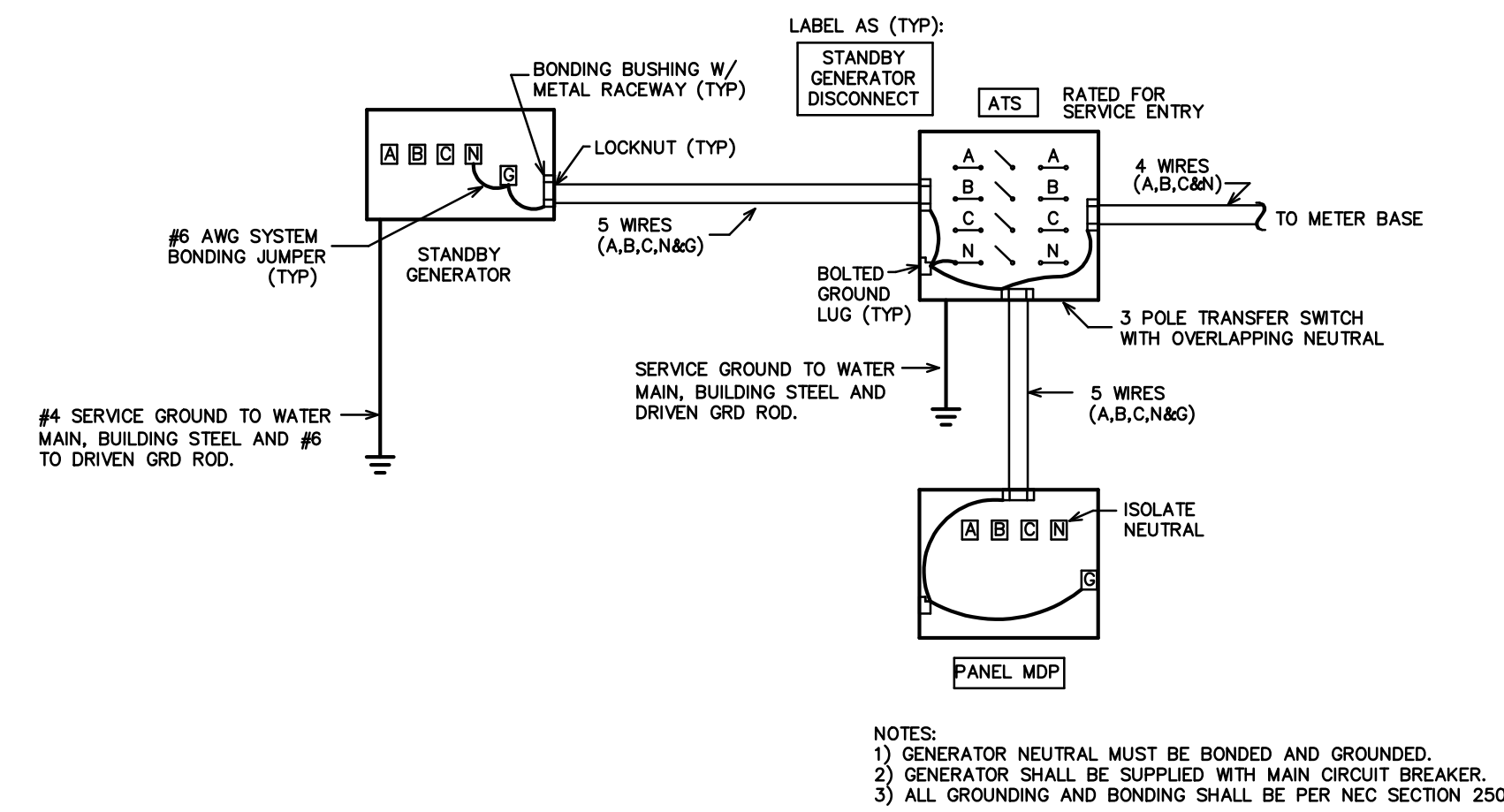
E1



Columbus City Sheriff's Department E4		MAKE: EATON		RATING: 208/120V 3 PHASE 4 WIRE		M.L.O. MAIN CIRCUIT BREAKER	
NEW PANEL- 'M'		TYPE: PBL3g		MOUNTING: FLUSH		EQUIPMENT GROUND BUS ☒ YES ☐ NO	
		OR APPROVED EQUAL		MINIMUM AIC: VERIFY		SERVICE ENTRY RATED ☐ YES ☒ NO	
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE A B C	LOAD SERVICE
GPU-1	70A	6252	3		2	3000	35A EWH-1
		6252	5		6	3000	
GPU-2	30A	2436	7		8	2500	30A EWH-2
		2436	9		10	1789	
GPU-3	50A	3336	11		12	1789	20A LTS - MEDIA
		3336	13		14	156	20A CAMERAS
GPU-4	40A	2904	15		16	1000	20A CARD READERS
		2904	17		18	1000	20A EF-5
GPU-5	40A	2904	19		20	500	20A REC - SERVER
		2904	21		22	360	20A REC - SERVER
GPU-6	25A	1992	23		24	360	20A SPARE
		1992	25		26	---	20A SPARE
PANEL 'A'	200A	10263	27		28	---	20A SPARE
		12568	29		30	---	20A SPARE
			31		32	---	20A SPARE
			33		34	---	20A SPARE
			35		36	---	20A SPARE
			37		38	11650	PANEL 'B'
			39		40	9969	
			41		42	11200	
NOTES		SUB-TOTALS 'B'		400A BUS		SUB-TOTALS 'A'	
(S) SWITCH RATED BREAKER		30984		31164		31524	
		400A LUGS		30984		31164	
		400A FEED		44384		45995	
		VERIFY SIZE		370A		384A	
NEC ALLOWABLE DEMAND FACTORS		DIVERSIFIED LOAD SUMMARY		TOTAL CONNECTED LOAD		AMPS/PHASE	
① DEMAND FACTORS PER NEC 220		LOAD TYPE		DEMAND FACTOR		TOTAL DIVERSIFIED LOAD	
② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD		GENERAL LIGHTING		125%		1350	
③ NEC TABLE 220.56		TRACK LIGHTING		125%		---	
④ NEC 220.51		GENERAL USE		100%		14040	
⑤ NEC 220.43A, 200 VA/LINEAR FT		RECEPTACLES		125%		15300	
⑥ NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED		MOTORS AND EQUIPMENT		100%		18020	
		WATER HEATERS		125%		8820	
		KITCHEN EQUIPMENT		100%		58544	
		FIX. ELEC. SPACE HEAT.		100%		13313	
		SHOW WINDOW LIGHTS		125%		2800	
		SIGN		125%		---	
		MISC		100%		888	
		TOTAL		PHASE (TOTAL VA)		43503	
				TOTAL AMPS		363A	
				362A		353A	
				VOLT AMPS		129075	
				VOLTS X 1.732 =		359A	
				TOTAL AMPS		---	

Columbus City Sheriff's Department E4		MAKE: EATON		RATING: 208/120V 3 PHASE 4 WIRE		M.L.O. MAIN CIRCUIT BREAKER	
NEW PANEL- 'A'		TYPE: PBL3g		MOUNTING: FLUSH		EQUIPMENT GROUND BUS ☒ YES ☐ NO	
		OR APPROVED EQUAL		MINIMUM AIC: VERIFY		SERVICE ENTRY RATED ☐ YES ☒ NO	
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE A B C	LOAD SERVICE
REC HALLWAY	20A	1080	1		2	180	20A REC 165
REC 148,160	20A	1080	3		4	180	20A REC 168
REC 149,150	20A	1080	5		6	180	20A REC 167
REC 152,153	20A	1080	7		8	180	20A REC GYM
REC 154,155	20A	1080	9		10	180	20A REC GYM
REC 156,157	20A	1080	11		12	180	20A REC GYM
REC 158,161	20A	900	13		14	720	20A REC GYM
REC 104,105	20A	1080	15		16	720	20A REC GYM
REC 106,107	20A	1080	17		18	540	20A REC CORRIDOR
REC 108,109	20A	1080	19		20	540	20A REC TRAIN
REC 110,111	20A	1080	21		22	540	20A REC TRAIN
REC 113,112	20A	720	23		24	720	20A REC TRAIN
REC DETECT.	20A	720	25		26	540	20A REC TRAIN
FRIDGE	20A	1800	27		28	1080	20A REC STAGE
MICROWAVE	20A	1800	29		30	360	20A REC STAGE
REC COUNTERTOP	20A	180	31		32	540	20A REC CIVIL
REC 163,162	20A	900	33		34	900	20A REC CIVIL
REC HALLWAY	20A	360	35		36	1520	20A LTS - DETECTIVE
WATER FOUNTAIN	20A	1080	37		38	1635	20A LTS - RR & LOCKERS
REC RR	20A	360	39		40	1588	20A LTS - TRAINING
REC 164	20A	180	41		42	1080	20A LTS - GYM & CORRIDOR
NOTES		SUB-TOTALS 'B'		200A BUS		SUB-TOTALS 'A'	
(G) GFI BREAKER		5928		4335		5188	
(EM) CIRCUIT CONTAINING EMERGENCY LIGHTING. LABEL AS "EM" CIRCUIT		200A LUGS		5928		7380	
		200A FEED		10263		12568	
		VERIFY SIZE		86A		105A	
NEC ALLOWABLE DEMAND FACTORS		DIVERSIFIED LOAD SUMMARY		TOTAL CONNECTED LOAD		AMPS/PHASE	
① DEMAND FACTORS PER NEC 220		LOAD TYPE		DEMAND FACTOR		TOTAL DIVERSIFIED LOAD	
② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD		GENERAL LIGHTING		125%		2044	
③ NEC TABLE 220.56		TRACK LIGHTING		125%		1985	
④ NEC 220.51		GENERAL USE		100%		3250	
⑤ NEC 220.43A, 200 VA/LINEAR FT		RECEPTACLES		125%		3333	
⑥ NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED		MOTORS AND EQUIPMENT		100%		3333	
		WATER HEATERS		125%		9969	
		KITCHEN EQUIPMENT		100%		2204	
		FIX. ELEC. SPACE HEAT.		100%		2824	
		SHOW WINDOW LIGHTS		125%		1574	
		SIGN		125%		---	
		MISC		100%		888	
		TOTAL		PHASE (TOTAL VA)		8469	
				TOTAL AMPS		71A	
				84A		83A	
				VOLT AMPS		10042	
				VOLTS X 1.732 =		80A	
				TOTAL AMPS		---	

Columbus City Sheriff's Department E4		MAKE: EATON		RATING: 208/120V 3 PHASE 4 WIRE				M.L.O. MAIN CIRCUIT BREAKER			
NEW PANEL- 'B'		TYPE: PBL1g		MOUNTING: FLUSH				EQUIPMENT GROUND BUS ☒ YES ☐ NO			
		OR APPROVED EQUAL		MINIMUM AIC: VERIFY				SERVICE ENTRY RATED ☐ YES ☒ NO			
LOAD SERVICE		CKT BRKR	WATTS PER PHASE A B C	CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE A B C	CKT BRKR	LOAD SERVICE		
REC 134	20A	1080		1		2	720	20A	REC DRUG/ SPEC		
REC 133	20A		1080	3		4		900	20A REC OUTDOORS		
REC HALLWAY	20A			1080	5	6		900	20A REC OUTDOORS		
REC 129,130	20A	1080		7		8	1080	20A	REC 113,112		
REC MECH/ELEC.	20A		720	9		10		1383	20A LTS - HALL, ARMORY, OFFICES		
REC 127,126	20A			1080	11	12			20A LTS - PATROL & OFFICES		
REC 125,124	20A	1080			13	14	1152	20A	LTS - OFFICE & RR		
REC 123,122	20A		1080		15	16		1160	20A LTS - CIVIL		
REC 121,120	20A			1080	17	18		1200	20A LTS - DRUG/SPEC OPS		
REC 118,119	20A	1080			19	20	1318	20A	LTS - MAIN HALL		
REC RR	20A		360		21	22		586	20A LTS - EXTERIOR		
REC 138,137	20A			1080	23	24		1080	20A REC - ROOF		
REC 136,135	20A	1080			25	26	----	20A	SPARE		
REC 145	20A		720		27	28	----	20A	SPARE		
REC INTERVIEW	20A			720	29	30	----	20A	SPARE		
REC 142,143	20A	1080			31	32	----	20A	SPARE		
REC 141,151	20A		1080		33	34	----	20A	SPARE		
REC 139,140	20A			1080	35	36	----	20A	SPARE		
REC PATROL	20A	900			37	38	----	20A	SPARE		
REC PATROL	20A		900		39	40	----	20A	SPARE		
REC DRUG/ SPEC	20A			540	41	42	----	20A	SPARE		
NOTES		SUB-TOTALS 'B'		7380 5940 6660		200A BUS		4270 4029 4540		SUB-TOTALS 'A'	
CIRCUIT CONTAINING EMERGENCY LIGHTING. LABEL AS "EM" CIRCUIT						200A LUGS		7380 5940 6660		TOTAL CONNECTED LOAD	
						200A FEED		11650 9969 11200			
						VERIFY SIZE		98A 84A 94A			
NEC ALLOWABLE DEMAND FACTORS		DIVERSIFIED LOAD SUMMARY									
① DEMAND FACTORS PER NEC 220		LOAD TYPE		DEMAND FACTOR						TOTAL DIVERSIFIED LOAD	
② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD		GENERAL LIGHTING		125%		3098		3912		10200	
③ NEC TABLE 220.56		TRACK LIGHTING		125%		3098		3912		10200	
④ NEC 220.51		GENERAL USE		100%		3333		3333		9999	
⑤ NEC 220.43, 200 VA/LINEAR FT		RECEPTACLES		125%		2924		1754		7332	
⑥ NON-CONCURRENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED		MOTORS AND EQUIPMENT		LARGEST 100%		100%		100%		100%	
		WATER HEATERS		100%		100%		100%		100%	
		KITCHEN EQUIPMENT		100%		100%		100%		100%	
		FIX. ELEC. SPACE HEAT.		100%		100%		100%		100%	
		SHOW WINDOW LIGHTS		125%		125%		125%		125%	
		SIGN		100%		100%		100%		100%	
		MISC		100%		100%		100%		100%	
		TOTAL (VA)		9345		8999		8187		27531	
		TOTAL AMPS		78A		75A		77A		TOTAL AMPS	
										VOLT AMPS 77A x 120V = 77A	

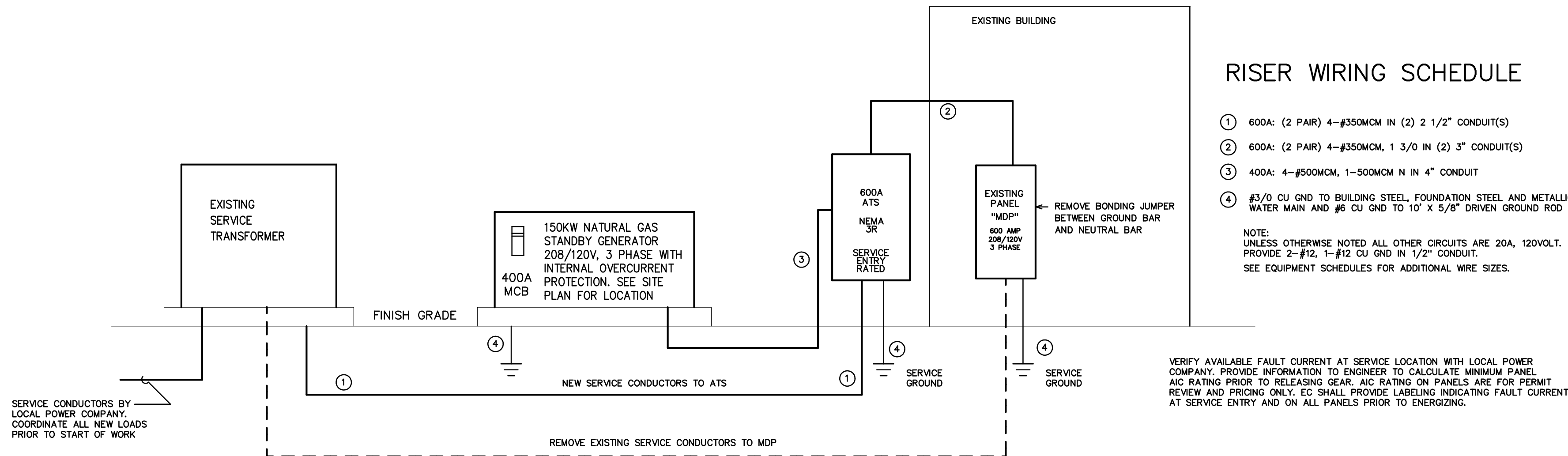
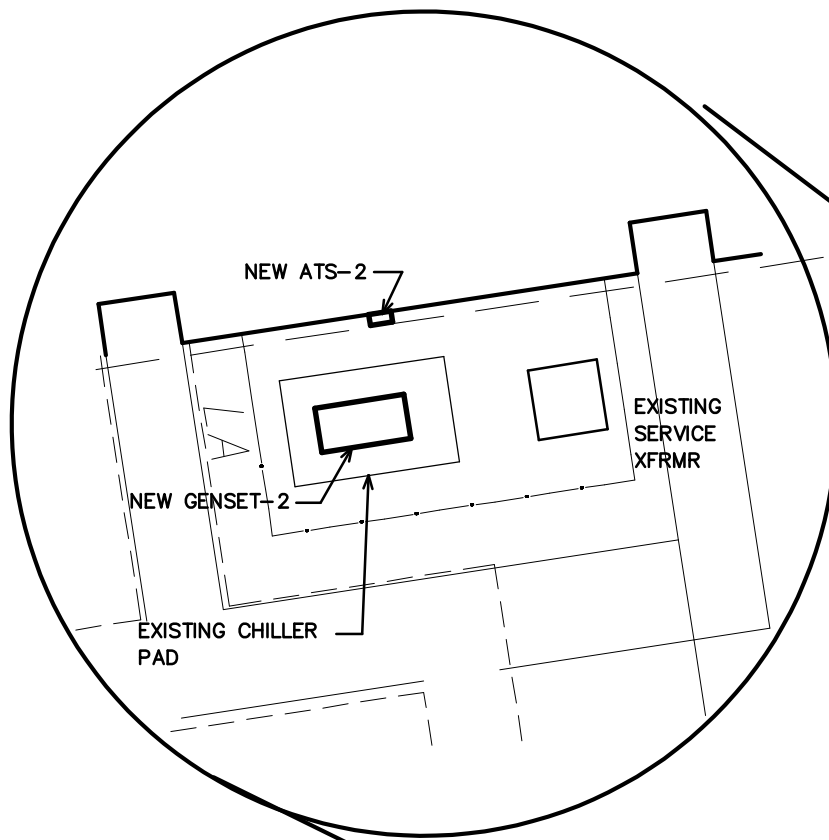


NOTE: PROVIDE PHENOLIC PLASTIC PLAQUES AT GENERATOR AND AT 400A PANEL M. THE PLAQUES SHOULD READ "ATS SWITCHES NEUTRAL. THE NEUTRAL IS GROUND AND BONDED AT GENERATOR."

3 PHASE GENERATOR GROUNDING

2
E-4

SCALE: NTS



RISER WIRING SCHEDULE

- 600A: (2 PAIR) 4-#350MCM IN (2) 2 1/2" CONDUIT(S)
- 600A: (2 PAIR) 4-#350MCM, 1 3/0 IN (2) 3" CONDUIT(S)
- 400A: 4-#500MCM, 1-500MCM N IN 4" CONDUIT
- #3/0 CU GND TO BUILDING STEEL, FOUNDATION STEEL AND METALLIC WATER MAIN AND #6 CU GND TO 10' X 5/8" DRIVEN GROUND ROD

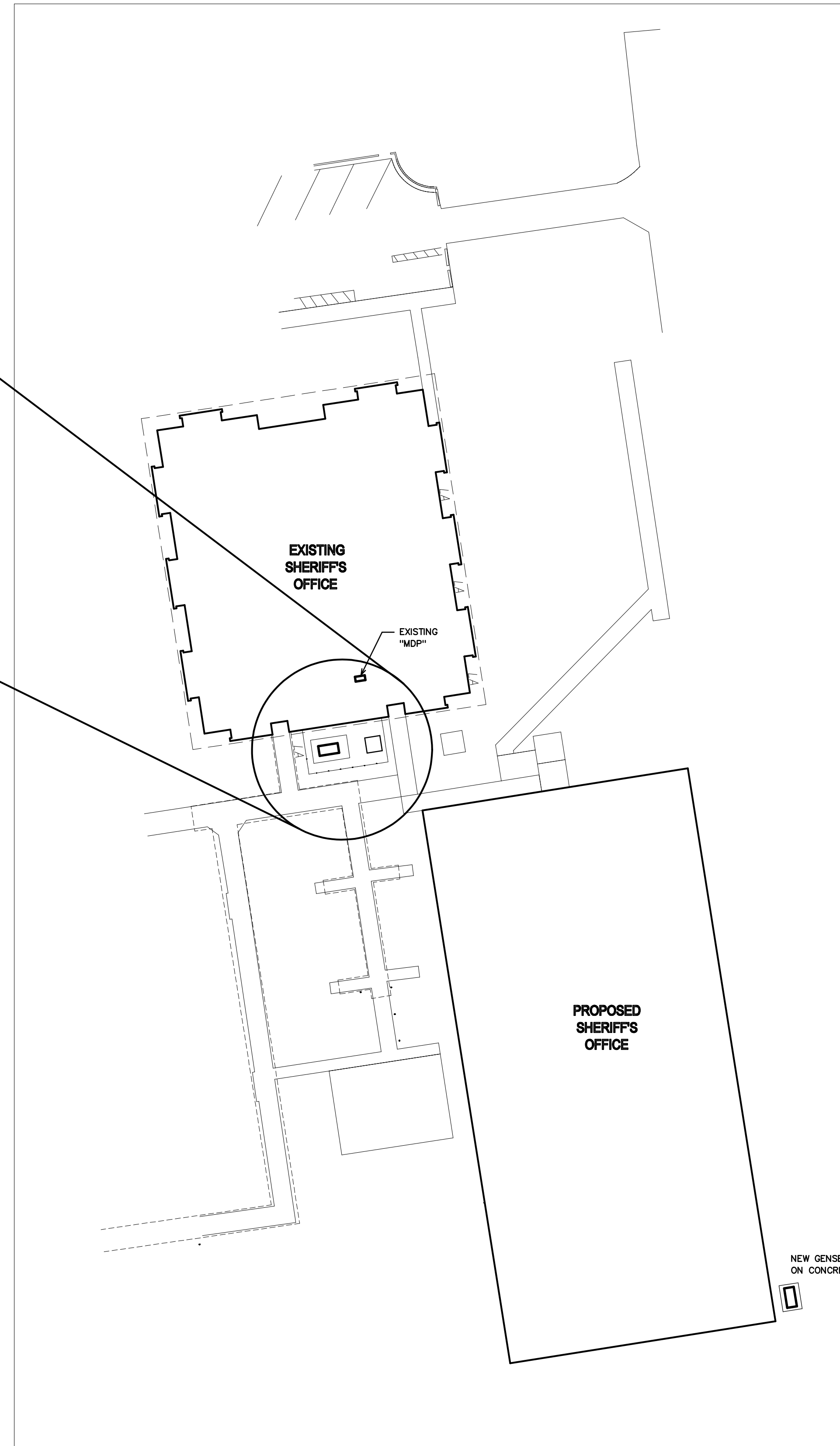
NOTE: UNLESS OTHERWISE NOTED ALL OTHER CIRCUITS ARE 20A, 120VOLT. PROVIDE 2-#12, 1-#12 CU GND IN 1/2" CONDUIT. SEE EQUIPMENT SCHEDULES FOR ADDITIONAL WIRE SIZES.

VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING PRIOR TO RELEASING GEAR. AIC RATING ON PANELS ARE FOR PERMIT REVIEW AND PRICING ONLY. EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO ENERGIZING.

ELECTRICAL SERVICE RISER

1
E-4

SCALE: NTS



NEW GENSET-1
ON CONCRETE PAD

Adopted by Sheriff's Department 10-1

(ATS) AUTOMATIC TRANSFER SWITCH-2 SCHEDULE

ATS-2 * ASCO MODEL# J07AUSB30600C50N, AUTOMATIC TRANSFER SWITCH, SERVICE ENTRY RATED WITH DISCONNECTING MEANS. "STAND-BY" * 600 AMP, 208/120 VOLT, 3 PHASE WITH NEMA 3R ENCLOSURE. PROVIDE GFI PROTECTION.

* OR APPROVED EQUAL

STANDBY GENERATOR-2 SCHEDULE

150 KW NATURAL GAS FUELED STANDBY GENERATOR-2 (EXISTING SHERIFFS DEPARTMENT BUILDING)

PROVIDE A "CAT" MODEL DG150 STANDBY GENERATOR WITH (1) SERVICE ENTRY RATED AUTOMATIC TRANSFER SWITCH. THE GENERATOR SHALL BE CAPABLE OF RUNNING ON NATURAL GAS FUEL WITH A 72 HOUR MIN RUN CAPACITY. PROVIDE ALL ACCESSORIES AS REQUIRED FOR A COMPLETE OPERATING SYSTEM. THE ENGINE SHALL BE A 9.1L V8, 4 CYCLE AND TURBOCHARGED WITH AN ENCLOSED MUFFLER. THE DELIVERY VOLTAGE SHALL BE 208/120 VOLT, 3 PHASE. PROVIDE 10A DUAL RATE BATTERY CHARGER, AUTOMATIC VOLTAGE REGULATOR, AUTOMATIC LOW OIL PRESSURE AND HIGH TEMPERATURE SHUTDOWN. THE AUTOMATIC TRANSFER SWITCH SHALL TRANSFER FROM THE UTILITY AUTOMATICALLY WITH-IN 30 SECONDS. PROVIDE A SERVICE RATED DISCONNECTING MEANS WITH OVERCURRENT PROTECTION AT THE GENERATOR LOCATION OR WITH-IN SIGHT. PROPERLY GROUND THE GENERATOR AND SERVICE EQUIPMENT PER THE NEC. PROVIDE INITIAL START UP AND OWNER TRAINING. PROVIDE AN ADJUSTABLE 7-DAY/24-HOUR EXERCISE TIMER. PROVIDE A DIGITAL CONTROL PANEL, UNIT VIBRATION ISOLATION, AND A LEVEL 1 ACOUSTIC WEATHER PROTECTIVE ENCLOSURE. PROVIDE A LOAD TEST, START-UP AND OWNER TRAINING BY THE GENERATOR MANUFACTURER'S FACTORY TRAINED REPRESENTATIVE.

* OR APPROVED EQUAL

ENGINEER

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Architecture
PLLC

Architectural
Design
Planning
Interiors



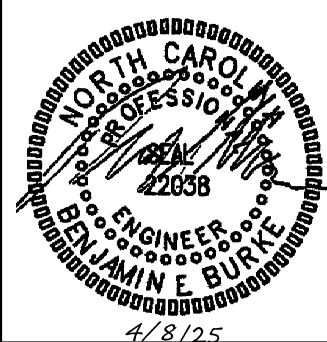
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COLUMBUS COUNTY
SHERIFF'S OFFICE
WHITEVILLE, NORTH CAROLINA

DOI



EXISTING BLD GENSET

23029

ISSUED: 12/17/2024

DWG BY:

CKD BY:

REVISIONS

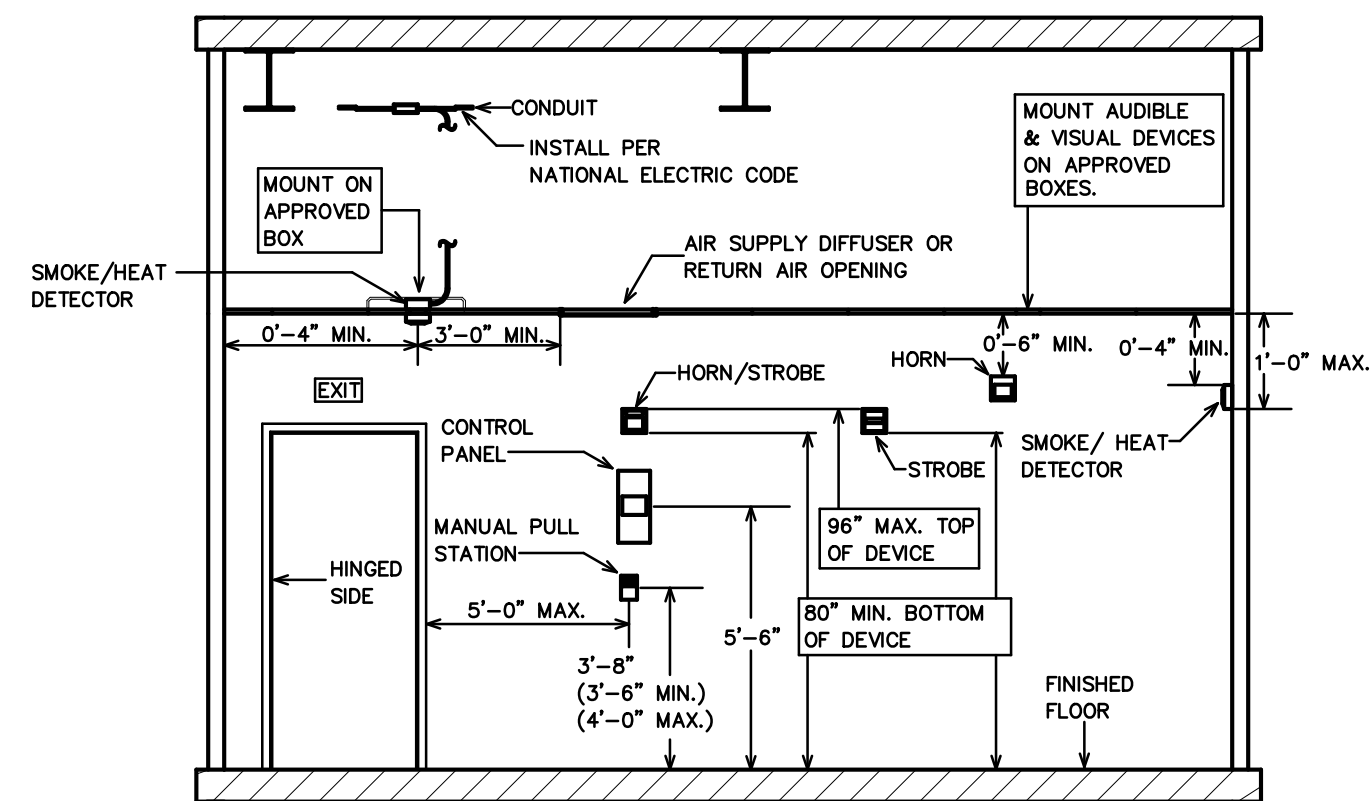
SHEET NO.

E4-1

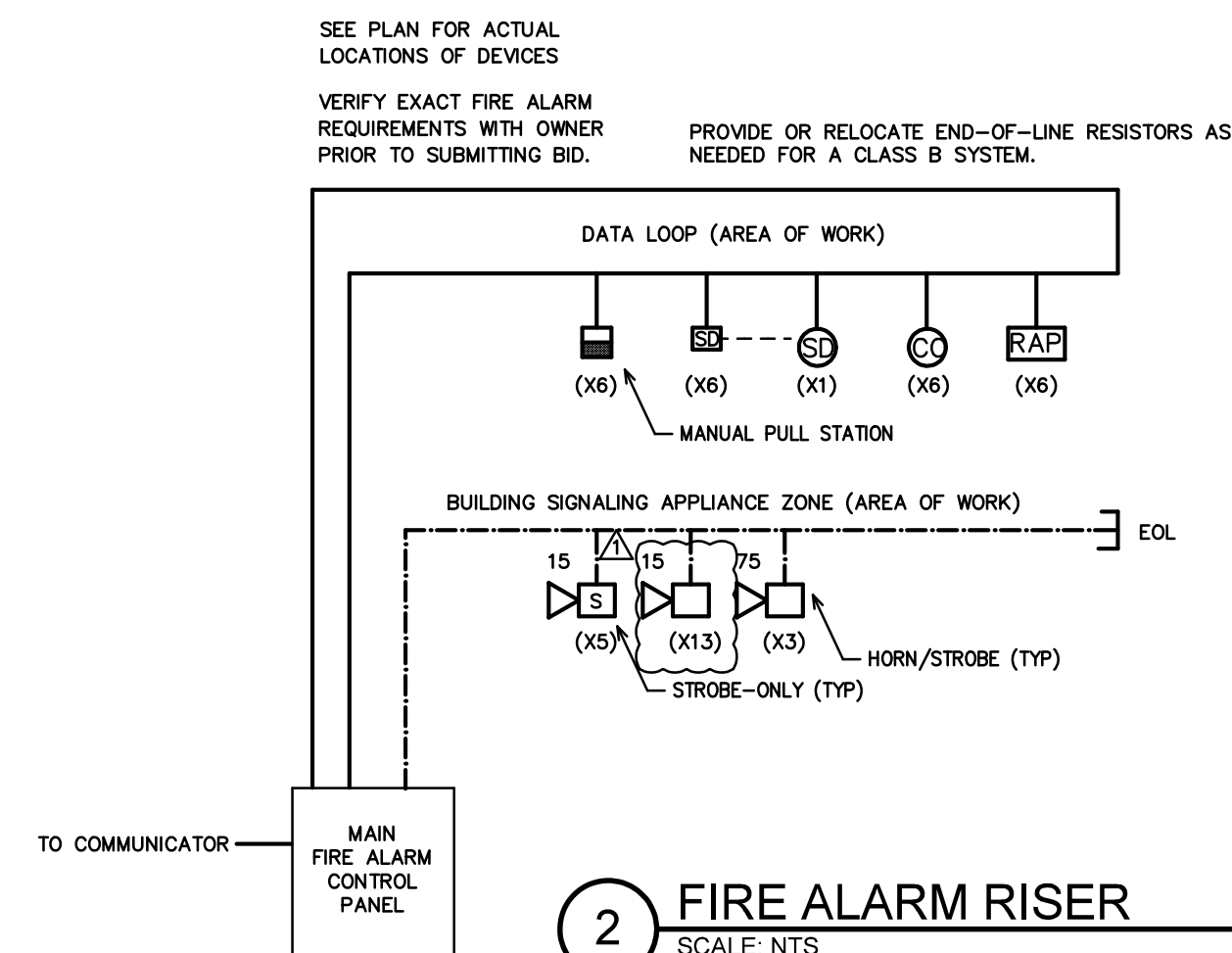
FIRE ALARM LEGEND

- ✓
Sxx HORN/STROBE SIGNALING DEVICE
(xx) CANDELLA RATING; (S) INDICATES STROBE-ONLY
- PULL STATION
- SMOKE DETECTOR
- HEAT DETECTOR
- DUCT SMOKE DETECTOR
- FACP FIRE ALARM CONTROL PANEL
- HNSD HOOD FIRE SUPPRESSION SYSTEM
- ELECTRIC BELL (EXTERIOR)
- FLOW/TAMPER SWITCH

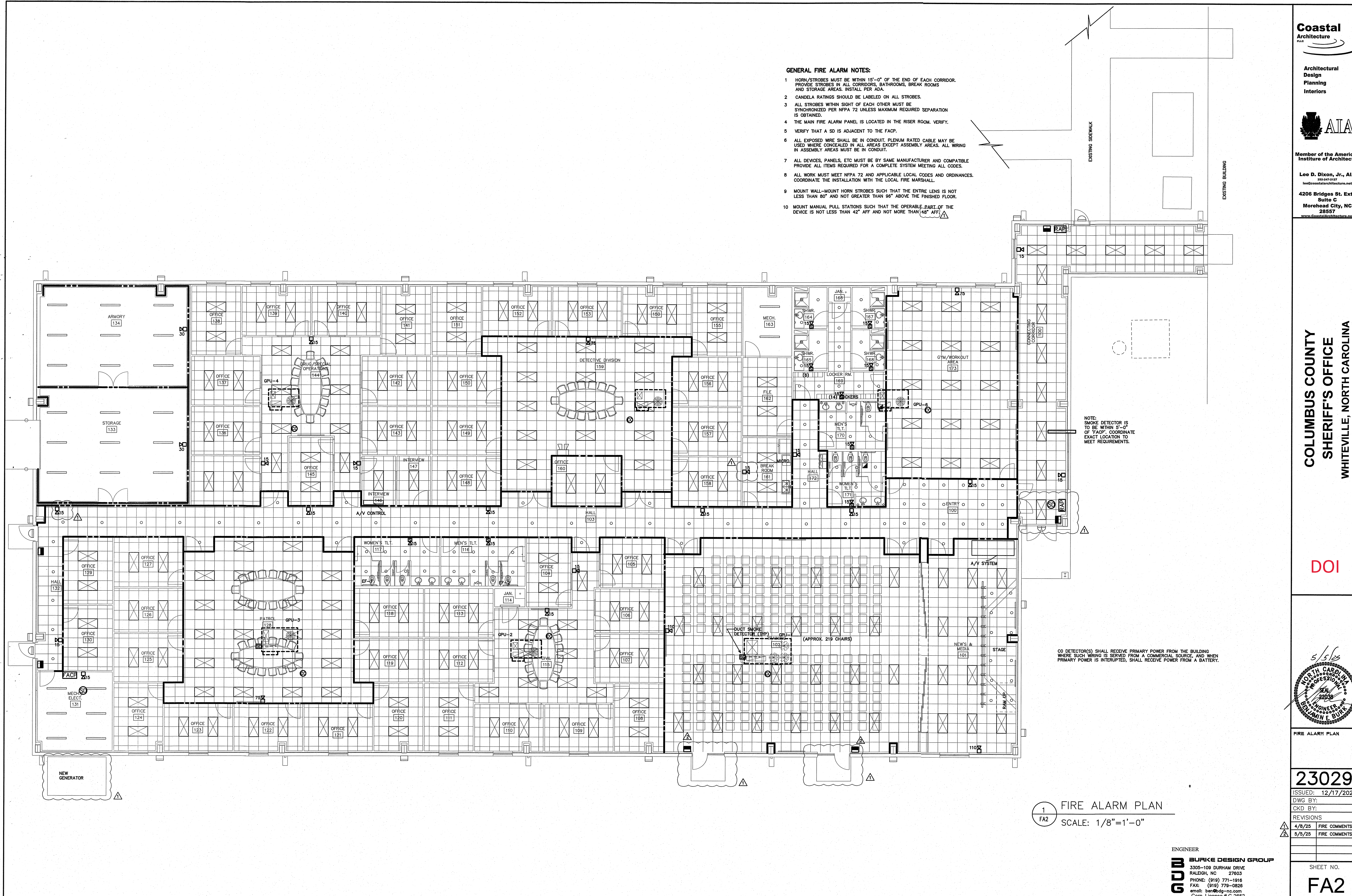
SYSTEM INPUTS		SYSTEM OUTPUTS																									
		FACP ANNUNCIATION								NOTIFICATION								REQUIRED FIRE SAFETY CONTROL									
1	FIRE ALARM SYSTEM AC POWER FAILURE																										
2	FIRE ALARM SYSTEM LOW BATTERY																										
3	OPEN CIRCUIT																										
4	GROUND FAULT																										
5	NOTIFICATION APPLIANCE CIRCUIT SHORT																										
6	BUILDING MANUAL PULL STATIONS																										
7	CORRIDOR SMOKE DETECTORS																										
8	AREA SMOKE DETECTORS																										
9	HVAC AIR DUCT SMOKE DETECTORS																										
10	AREA HEAT DETECTORS																										
11	HOOD OR ROOM FIRE SUPPRESSION SYSTEM ALARM																										
12	SPRINKLER TAMPER SWITCH																										
13	SPRINKLER WATER FLOW IN BUILDING																										
14	SPRINKLER WATER FLOW IN ELEV EQUIP RM OR SHAFT																										
15	ELEV EQUIP RM AREA SMOKE DETECTOR																										
16	ELEV SHAFT AND ELEV EQUIP RM HEAT DETECTORS																										
17	ELEV LOBBY SMOKE DETECTORS – UPPER FLOORS																										
18	ELEV LOBBY SMOKE DETECTOR – RECALL FLOOR																										
19	ELEV CONTROLLER POWER SHUNT TRIP STATUS																										
20	FIRE PUMP POWER FAILURE/PHASE REVERSAL																										
21	FIRE PUMP RUNNING																										
22	FIRE PUMP SYSTEM NOT IN AUTOMATIC																										
23	LEGALLY REQUIRED GENERATOR SYSTEM LOW FUEL																										
24	LEGALLY REQUIRED GENERATOR NOT IN AUTOMATIC																										
25	AREA OF REFUGE TWO-WAY COMMUNICATIONS STATUS																										
26																											
27																											



1 DEVICE MOUNTING DETAIL
SCALE: NTS



2 FIRE ALARM RISER
SCALE: NTS



- GENERAL FIRE ALARM NOTES:**
- 1 HORN/STROBES MUST BE WITHIN 15'-0" OF THE END OF EACH CORRIDOR. PROVIDE STROBES IN ALL CORRIDORS, BATHROOMS, BREAK ROOMS AND STORAGE AREAS. INSTALL PER ADA.
 - 2 CANDELA RATINGS SHOULD BE LABELED ON ALL STROBES.
 - 3 ALL STROBES WITHIN SIGHT OF EACH OTHER MUST BE SYNCHRONIZED PER NFPA 72 UNLESS MAXIMUM REQUIRED SEPARATION IS OBTAINED.
 - 4 THE MAIN FIRE ALARM PANEL IS LOCATED IN THE RISER ROOM. VERIFY.
 - 5 VERIFY THAT A SD IS ADJACENT TO THE FAC.
 - 6 ALL EXPOSED WIRE SHALL BE IN CONDUIT. PLENUM RATED CABLE MAY BE USED WHERE CONCEALED IN ALL AREAS EXCEPT ASSEMBLY AREAS. ALL WIRING IN ASSEMBLY AREAS MUST BE IN CONDUIT.
 - 7 ALL DEVICES, PANELS, ETC MUST BE BY SAME MANUFACTURER AND COMPATIBLE. PROVIDE ALL ITEMS REQUIRED FOR A COMPLETE SYSTEM MEETING ALL CODES.
 - 8 ALL WORK MUST MEET NFPA 72 AND APPLICABLE LOCAL CODES AND ORDINANCES. COORDINATE THE INSTALLATION WITH THE LOCAL FIRE MARSHALL.
 - 9 MOUNT WALL-MOUNT HORN STROBES SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR.
 - 10 MOUNT MANUAL PULL STATIONS SUCH THAT THE OPERABLE PART OF THE DEVICE IS NOT LESS THAN 42" AFF AND NOT MORE THAN 48" AFF.

NOTE: SMOKE DETECTOR IS TO BE WITHIN 5'-0" OF 7'60". COORDINATE EXACT LOCATION TO MEET REQUIREMENTS.

CO DETECTOR(S) SHALL RECEIVE PRIMARY POWER FROM THE BUILDING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE, AND WHEN PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY.

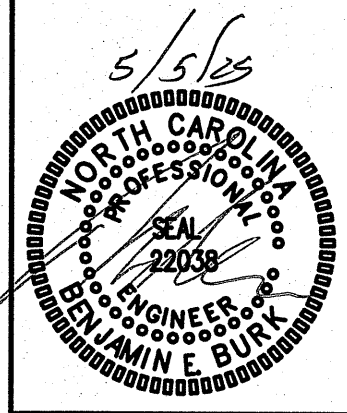
1 FIRE ALARM PLAN
FA2 SCALE: 1/8"=1'-0"

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**COLUMBUS COUNTY
SHERIFF'S OFFICE
WHITEVILLE, NORTH CAROLINA**

DOI



FIRE ALARM PLAN	
23029	
ISSUED: 12/17/2024	
DWG BY:	
CKD BY:	
REVISIONS	
4/8/25	FIRE COMMENTS
5/5/25	FIRE COMMENTS
SHEET NO.	
FA2	