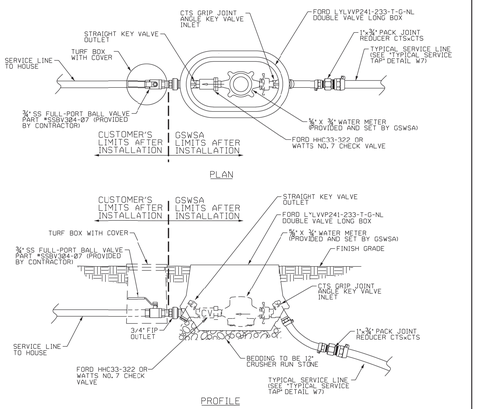
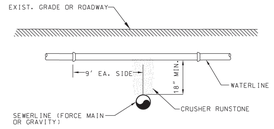


TYPICAL WATER METER DETAIL (¾" – 1")

W1

TYPICAL WATER METER DETAIL (¾" – 1") FOR FUTURE CUSTOMER CONNECTIONS (FOR GSWSA RURAL & CAPITAL PROJECTS ONLY)	
WATER ONLY UPDATED: 01/06/2023	W1
GRAND STRAND WATER & SEWER AUTHORITY	

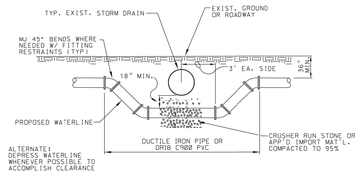
LATEST REVISION:
10/29/2014 DRT CORRECTED METER BOX SPECIFICATIONS
01/09/2020 DRT REVISED TITLE
01/07/2021 DRT CHANGED METER BOX SPECIFICATIONS
01/06/2023 DRT CHANGE CUSTOMER GATE VALVE TO BALL VALVE



TYPICAL SEWERLINE CROSSING

W9

TYPICAL SEWERLINE CROSSING	
WATER ONLY UPDATED: 2/16/98	W9
GRAND STRAND WATER & SEWER AUTHORITY	

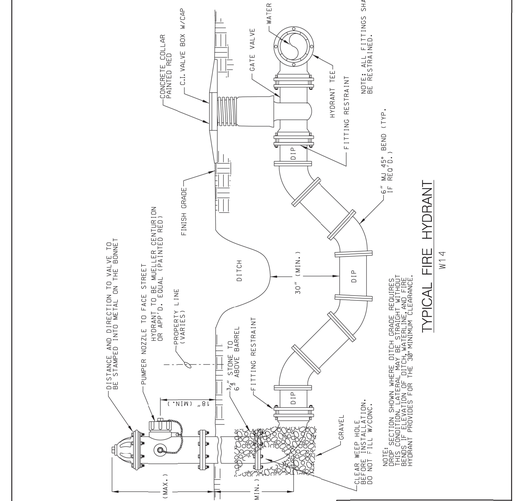


TYPICAL STORM DRAIN CROSSING

W8

LATEST REVISION:
8/22/22 DRT REVISED CLEARANCE AND DIP/PVC NOTE

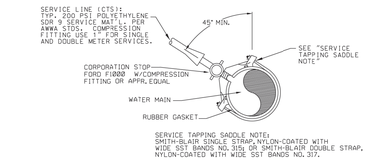
TYPICAL STORM DRAIN CROSSING	
WATER ONLY UPDATED: 08/22/2022	W8
GRAND STRAND WATER & SEWER AUTHORITY	



TYPICAL FIRE HYDRANT

W14

TYPICAL FIRE HYDRANT	
WATER ONLY UPDATED: 8/13/01	W14
GRAND STRAND WATER & SEWER AUTHORITY	



SERVICE TAPPING SADDLE NOTE:
SMITH-BLAIR SINGLE STRAP, NYLON-COATED WITH WIDE SST BANDS NO. 315; OR SMITH-BLAIR DOUBLE STRAP, NYLON-COATED WITH WIDE SST BANDS NO. 317.

TYPICAL SERVICE TAP

W7

LATEST REVISION:
8/28/06 DRT CHANGED "IPS" TO "CTS" SERVICE LINE

TYPICAL SERVICE TAP	
WATER ONLY UPDATED: 08/28/06	W7
GRAND STRAND WATER & SEWER AUTHORITY	

DOYLE ARCHITECTURE, LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 29037
RYAN E. HARVEY

ROWE PROFESSIONAL SERVICES COMPANY
SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
No. C03586

Additions & Renovations to:
GORETOWN FIRE STATION
Loris, South Carolina
For:
HORRY COUNTY GOVERNMENT

PROJECT NO: 22-136

DATE: July 31, 2023
Construction Documents

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REVISIONS:

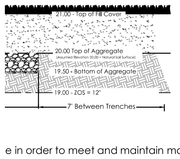
TITLE:
GSWSA DETAILS

SHEET:
C-12

ROWE PROFESSIONAL SERVICES COMPANY
6009 N. Kings Highway
Myrtle Beach, SC 29577
O: (843) 444-1020
F: (843) 448-3936
www.rowepsc.com

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PALMETTO UTILITY PROTECTION SERVICE

Trench Detail
iew



e in order to meet and maintain mandated setbacks. All

ate placement.

ently dry before attempting any construction or

entative prior to installation.

ed) of clean and easily workable soil.

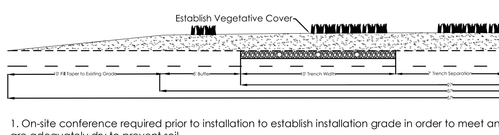
away from septic system Where natural surface drainage does not exist, a swale shall be constructed adjacent to the filled area to divert surface water away from the onsite wastewater system to a positive outfall. The installation of ditches, curtain drains, and rain gutters may be required to intercept and divert water away from the onsite wastewater system location. Fill pad should be seeded with grass seed or other ground cover applied immediately after installation to prevent erosion.

This individual Sewage Treatment Disposal System design meets the requirements of SC Regulation 61-56 Standard 610. It is not located in a wetland or within 125' of a Critical Area or Tidal Waters. The engineer is responsible for supervising the construction of the system and providing SCDHEC with a certified "as-built" plan of the installation.

Operation and Maintenance Requirements:

1. No Parking or heavy equipment will be allowed over the disposal field.
2. Septic tank to be inspected annually for solids and pumped when solids exceed 30% of the tank volume (minimum every 4 years).
3. Final landscaping and perpetual maintenance should not remove any fill in the septic area. Final yard landscaping should divert all surface water away from septic system area
4. Irrigation is NOT recommended in the septic system area.
5. Care, maintenance, proper use, protection of the septic system and any repairs that may be required are the sole responsibility of the property owner.

Fill Pad and Absorpt
Cross Sectio
NOT TO SC



1. On-site conference required prior to installation to establish installation grade in order to meet an
are adequately dry to prevent soil
pore blocking. Trench bottoms and sidewalls should be raked prior to aggregate placement.
2. Imported fill material must be clean and easily workable. Soil must be sufficiently dry before atter
Engineer or engineer representative prior to installation.
3. Trenches and aggregate should be covered with a minimum of 12" (Imported) of clean and easi
4. Fill pad must be landscaped and shaped to ensure surface water will drain away from septic syst
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Effluent Pump and Pump Chamber
Cross Section View
NOT TO SCALE

Pump Components & Requirements

Precast pump chamber (Approved for use by DHEC)

Pumps shall be listed by Underwriter's Laboratory or an equivalent third-party testing and listing agency and shall be specifically manufactured for use with domestic wastewater

ith mercury-switch float set for 50 -100 gallon

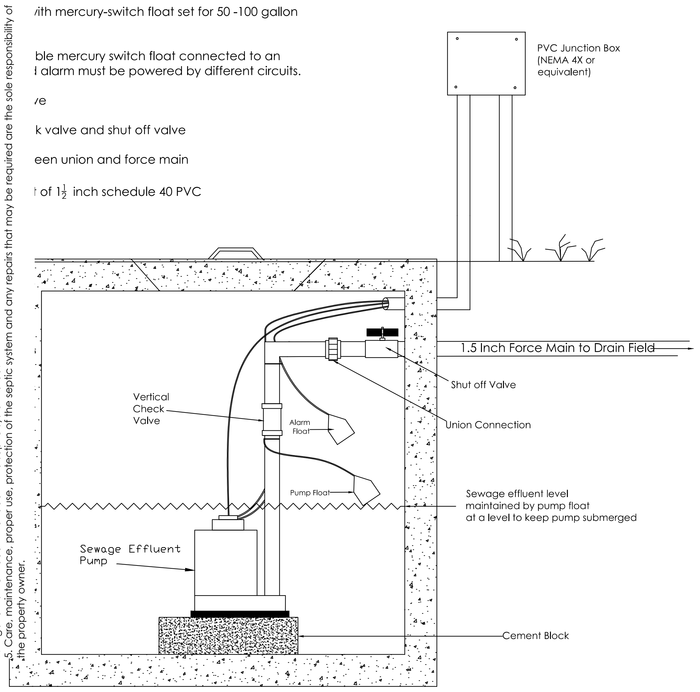
ble mercury switch float connected to an
l alarm must be powered by different circuits.

/e

k valve and shut off valve

een union and force main

t of 1½ inch schedule 40 PVC



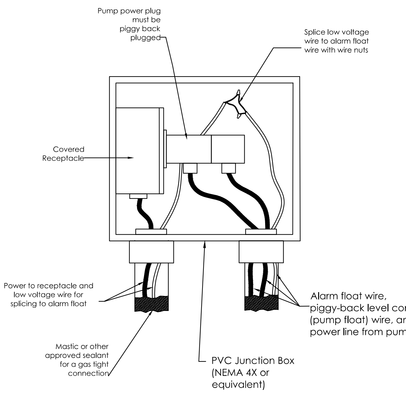
1. On-site conference required prior to installation to establish installation grade in order to meet and maintain mandated setbacks. All work should be done when site conditions are adequately dry to prevent soil
pore blocking. Trench bottoms and sidewalls should be raked prior to aggregate placement.
2. Imported fill material must be clean and easily workable. Soil must be sufficiently dry before attempting any construction or installation. Fill material must be approved by the Engineer or engineer representative prior to installation.
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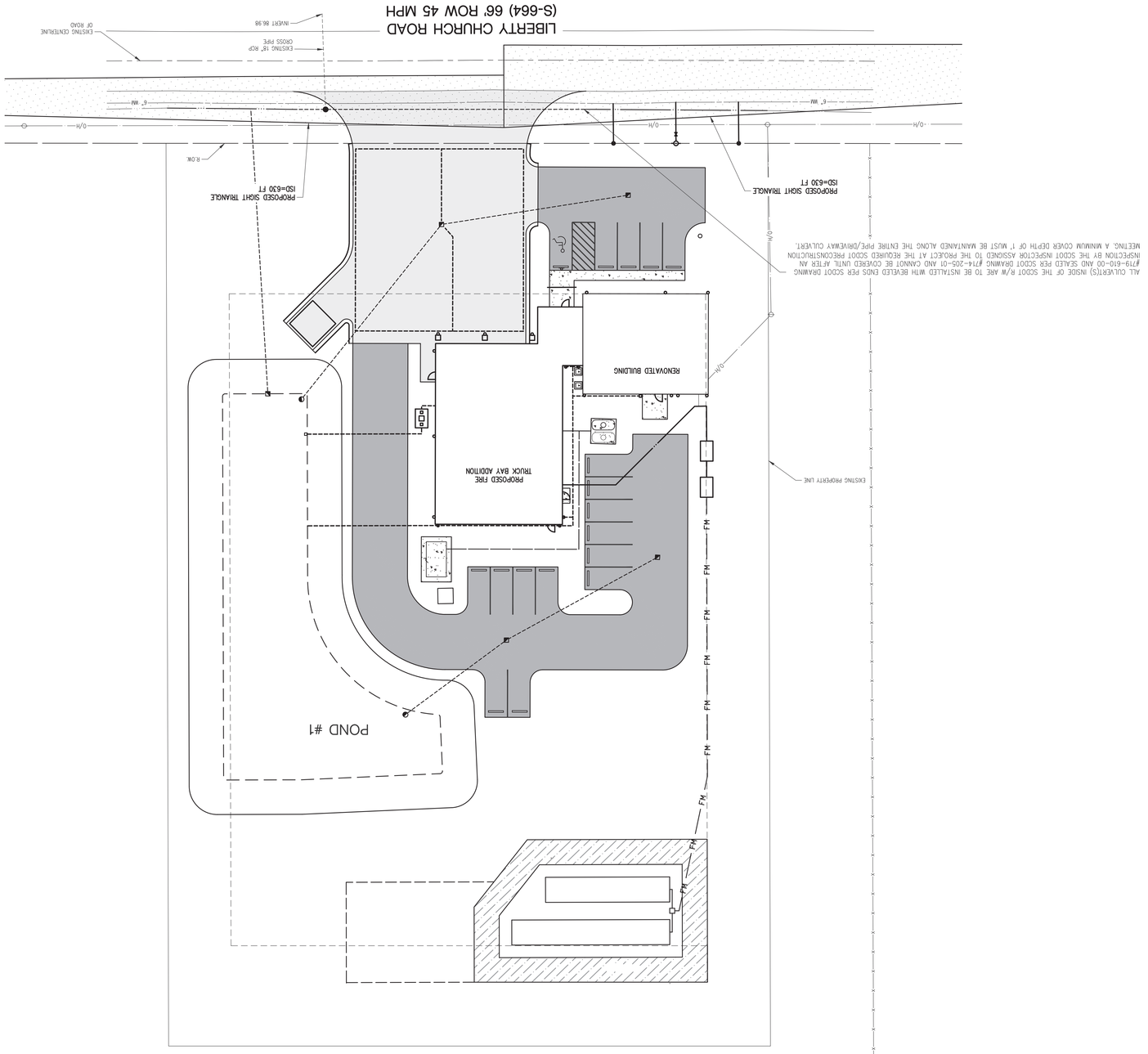
Electrical Wiring Detail

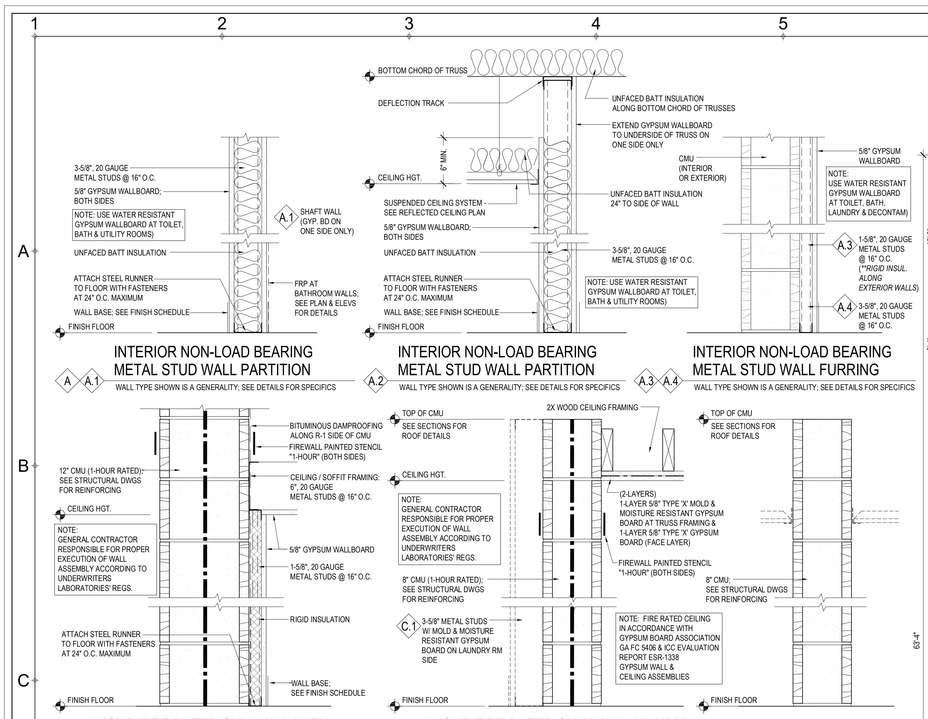


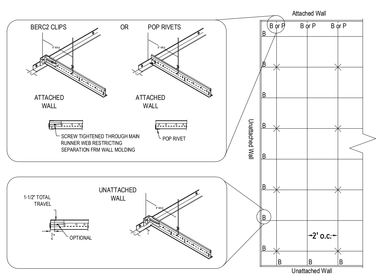
(1) Before or during final inspection, the property owner, installer or agent may be required to provide literature, including a pump curve, describing the specific pump installed. The inspector shall evaluate the system in accordance with this Standard, and shall confirm that all items, including the minimum pump capacity have been satisfied.

(2) Prior to final approval, the installer or electrician may be required to provide written documentation verifying that pump system electrical connections were made in accordance with all applicable codes. Testing of the pump system, demonstration of watertight integrity, or any other procedure deemed necessary to confirm the acceptability of the installation may be required.

(3) Pump and control circuits shall be provided with manual circuit disconnects within a watertight, corrosion-resistant, outside enclosure (NEMA 4X or equivalent) adjacent to the pump tank, securely mounted at least twelve (12) in. above finished grade, unless installed within a weather-tight building.


LIBERTY CHURCH ROAD
(S-664) 66' ROW 45 MPH
EXISTING CENTERLINE OF ROAD
EXISTING 18" RCP CROSS PIPE
INVERT 86.56
6' MA
O/H
R.O.W.
PROPOSED SIGHT TRIANGLE
ISO=630 FT
PROPOSED SIGHT TRIANGLE
ISO=630 FT
ALL CULVERT(S) INSIDE OF THE SCDOT R/W ARE TO BE INSTALLED WITH BEVELED ENDS PER SCDOT DRAWING #719-610-00 AND SEALED PER SCDOT DRAWING #14-205-01 AND CANNOT BE COVERED UNTIL AFTER AN INSPECTION BY THE SCDOT INSPECTOR ASSIGNED TO THE PROJECT AT THE REQUIRED SCDOT PRECONSTRUCTION MEETING. A MINIMUM COVER DEPTH OF 1' MUST BE MAINTAINED ALONG THE ENTIRE PIPE/DRIVEWAY CULVERT.
EXISTING PROPERTY LINE
RENOVATED BUILDING
PROPOSED FIRE TRUCK BAY ADDITION
POND #1
FM


3-5/8", 20 GAUGE METAL STUDS @ 16" O.C.
5/8" GYPSUM WALLBOARD; BOTH SIDES
NOTE: USE WATER RESISTANT GYPSUM WALLBOARD AT TOILET, BATH & UTILITY ROOMS)
A.1 SHAFT WALL (GYP. BD ON ONE SIDE ONLY)
UNFACED BATT INSULATION
ATTACH STEEL RUNNER TO FLOOR WITH FASTENERS AT 24" O.C. MAXIMUM
FRP AT BATHROOM WALLS; SEE PLAN & ELEVS FOR DETAILS
WALL BASE; SEE FINISH SCHEDULE
FINISH FLOOR
INTERIOR NON-LOAD BEARING METAL STUD WALL PARTITION
A A.1 WALL TYPE SHOWN IS A GENERALITY; SEE DETAILS FOR SPECIFICS
BOTTOM CHORD OF TRUSS
DEFLECTION TRACK
UNFACED BATT INSULATION ALONG BOTTOM CHORD OF TRUSSES
EXTEND GYPSUM WALLBOARD TO UNDERSIDE OF TRUSS ON ONE SIDE ONLY
CEILING HGT.
6" MIN.
SUSPENDED CEILING SYSTEM - SEE REFLECTED CEILING PLAN
UNFACED BATT INSULATION 24" TO SIDE OF WALL
5/8" GYPSUM WALLBOARD; BOTH SIDES
3-5/8", 20 GAUGE METAL STUDS @ 16" O.C.
UNFACED BATT INSULATION
ATTACH STEEL RUNNER TO FLOOR WITH FASTENERS AT 24" O.C. MAXIMUM
NOTE: USE WATER RESISTANT GYPSUM WALLBOARD AT TOILET, BATH & UTILITY ROOMS)
WALL BASE; SEE FINISH SCHEDULE
FINISH FLOOR
INTERIOR NON-LOAD BEARING METAL STUD WALL PARTITION
A.2 WALL TYPE SHOWN IS A GENERALITY; SEE DETAILS FOR SPECIFICS
CMU (INTERIOR OR EXTERIOR)
5/8" GYPSUM WALLBOARD
NOTE: USE WATER RESISTANT GYPSUM WALLBOARD AT TOILET, BATH, LAUNDRY & DECONTAM)
A.3 1-5/8", 20 GAUGE METAL STUDS @ 16" O.C. (**RIGID INSUL. ALONG EXTERIOR WALLS)
A.4 3-5/8", 20 GAUGE METAL STUDS @ 16" O.C.
INTERIOR NON-LOAD BEARING METAL STUD WALL FURRING
A.3 A.4 WALL TYPE SHOWN IS A GENERALITY; SEE DETAILS FOR SPECIFICS
BITUMINOUS DAMPROOFING ALONG R-1 SIDE OF CMU
FIREWALL PAINTED STENCIL "1-HOUR" (BOTH SIDES)
12" CMU (1-HOUR RATED); SEE STRUCTURAL DWGS FOR REINFORCING
CEILING / SOFFIT FRAMING: 6", 20 GAUGE METAL STUDS @ 16" O.C.
CEILING HGT.
NOTE: GENERAL CONTRACTOR RESPONSIBLE FOR PROPER EXECUTION OF WALL ASSEMBLY ACCORDING TO UNDERWRITERS LABORATORIES' REGS.
5/8" GYPSUM WALLBOARD
1-5/8", 20 GAUGE METAL STUDS @ 16" O.C.
RIGID INSULATION
ATTACH STEEL RUNNER TO FLOOR WITH FASTENERS AT 24" O.C. MAXIMUM
WALL BASE; SEE FINISH SCHEDULE
FINISH FLOOR
1-HOUR FIRE RATED CMU WALL WITH 1-5/8" METAL STUD FURRING - UL U906
B WALL TYPE SHOWN IS A GENERALITY; SEE DETAILS FOR SPECIFICS
TOP OF CMU
SEE SECTIONS FOR ROOF DETAILS
CEILING HGT.
NOTE: GENERAL CONTRACTOR RESPONSIBLE FOR PROPER EXECUTION OF WALL ASSEMBLY ACCORDING TO UNDERWRITERS LABORATORIES' REGS.
2X WOOD CEILING FRAMING
(2-LAYERS) 1-LAYER 5/8" TYPE 'X' MOLD & MOISTURE RESISTANT GYPSUM BOARD AT TRUSS FRAMING & 1-LAYER 5/8" TYPE 'X' GYPSUM BOARD (FACE LAYER)
FIREWALL PAINTED STENCIL "1-HOUR" (BOTH SIDES)
8" CMU (1-HOUR RATED); SEE STRUCTURAL DWGS FOR REINFORCING
C.1 3-5/8" METAL STUDS W/ MOLD & MOISTURE RESISTANT GYPSUM BOARD ON LAUNDRY RM SIDE
NOTE: FIRE RATED CEILING IN ACCORDANCE WITH GYPSUM BOARD ASSOCIATION GA FC 5406 & ICC EVALUATION REPORT ESR-1338 GYPSUM WALL & CEILING ASSEMBLIES
FINISH FLOOR
1-HOUR FIRE RATED CMU WALL -UL U906 WITH 1-HOUR RATED CEILING - GA FC 5406
C C.1 WALL TYPE SHOWN IS A GENERALITY; SEE DETAILS FOR SPECIFICS
TOP OF CMU
SEE SECTIONS FOR ROOF DETAILS
8" CMU; SEE STRUCTURAL DWGS FOR REINFORCING
FINISH FLOOR
INTERIOR CMU WALL
D WALL TYPE SHOWN IS A GENERALITY; SEE DETAILS FOR SPECIFICS
(N) CONCRETE SLAB; SEE CIVIL DWGS.
(N) HB
SPRINKLER 107
FDC
(N) CONC. SLAB; SEE CIVIL DWGS.
WASHER
DRYER
LAUNDRY 106
MOP SINK; SEE PLUMB DWGS.
MOP BRACKET ABOVE
FE
**NOTE: SEE CIVIL DWGS FOR GENERATOR LOCATION
EYE WASH
DECONTAM 105
5' DECOM. SINK
CUSTOM FABRICATED (SUBMIT SHOP DRAWINGS)
(N) MAIN & EMERGENCY POWER CABINETS; SEE ELEC DWGS.
(N) ATS; SEE ELEC DWGS.
(N) TEL. PANEL; SEE ELEC DWGS.
ELECTRICAL 104
(N) FIRE ALARM PANEL; SEE FA DWGS.
(N) ELEC PANELS; SEE ELEC DWGS.
APPARATUS BAY 101
SECURE STORAGE 103
WATER HEATER; SEE PLUMB DWGS.
EMS 102
(N) HVAC ON CONC PAD; SEE MECH DWGS
ENTRANCE VESTIBULE 100
HI-LO DRINKING FOUNTAINS W/ BOTTLE DISP
18" HIGH CABINET
STEEL COLUMN; SEE STRUC DWGS
(N) CONC. SLAB; SEE CIVIL DWGS.
(N) BOLLARD
(N) HB
SLOPE
DRAIN
SLOPE 1/4" PER 1'-0" (TYP.)
EQUAL
(N) CONCRETE SLAB; SEE CIVIL DWGS.
ADA TOILET & SHOWER 010
TOILET & SHOWER 009
HALL 008
TOILET & SHOWER 011
TOILET & SHOWER 012
HALL 005
LOCKERS 007
BUNK 006
KITCHEN 002
HALL 001
CLOSET 014
HALL 013
OFFICE 015
OFFICE 016
DINING 004
LOUNGE 003
48" WIRE SHELVING UNIT; FLOOR MOUNTED
(N) HVAC ON CONC PAD; SEE MECH DWGS
(E) ELEC
(E) AHU
(E) GAS
(N) HB AT EXISTING LOCATION
(E) OPENING
OPENING
H1 GROUND FLOOR PLAN
A-101 SCALE: 1/4" = 1'-0"

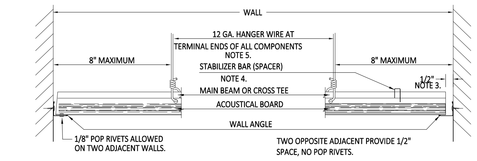


SEISMIC CEILING INSTALLATION REQUIREMENTS

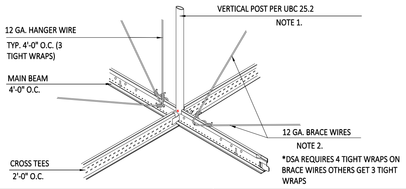
ACOUSTICAL CEILING SHALL BE INSTALLED TO COMPLY WITH ASTM E-580 FOR SITE CLASS D.

SEISMIC DESIGN CATEGORY D

1. CONTRACTOR TO COMPLY WITH SEISMIC REQUIREMENTS IN IBC 2021 AND ASCE 7-10
2. CONTRACTOR TO COMPLY WITH SPECIAL INSPECTIONS REQUIRED BY LOCAL JURISDICTION
3. 7/8" PERIMETER MOLDING WITH ACM? SEISMIC CLIP
4. GRID MUST BE ATTACHED TO TWO ADJACENT WALLS. OPPOSITE WALLS MUST HAVE J" CLEARANCE
5. ENDS OF MAIN BEAMS AND CROSS TEES MUST BE TIED TOGETHER TO PREVENT THEIR SPREADING
6. PERIMETER SUPPORT WIRES
7. HEAVY DUTY GRID SYSTEM
8. CEILING AREAS OVER 1000 SF MUST HAVE HORIZONTAL RESTRAINT (SPLAY WIRES OR RIGID BRACING) WITHIN 2' OF INTERSECTION AND SPLAYED 90° APART AT 45° ANGLES
9. COMPRESSION POSTS (STRUTS) 12'-0" O.C. IN BOTH DIRECTIONS, STARTING 6'-0" FROM WALL
10. CEILING AREAS OVER 2500 SF MUST HAVE SEISMIC SEPARATION JOINTS
11. CABLE TRAYS AND ELECTRICAL CONDUITS MUST BE INDEPENDENTLY BRACED
12. LIGHT FIXTURES TO HAVE TWO WIRES FROM HOUSING TO STRUCTURE (WIRES MAY BE SLACK)
13. CEILING TILES TO ALIGN WITH CENTER LINE OF COLUMNS
14. MECHANICAL UNITS TO BE PLACED IN LOCATIONS SHOWN IN PLANS. HEIGHTS TO BE COORDINATED WITH BUILDING SECTION.

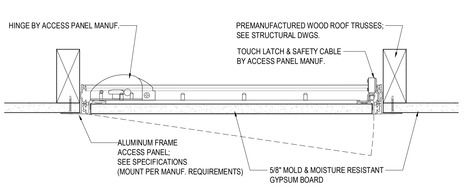


PERIMETER NOTES	
3. THE UNATTACHED PERIMETER SHALL HAVE A MINIMUM OF 1/2" CLEARANCE AT ENDS OF COMPONENTS. 4. CONTINUOUS SPACER BAR TO BE LOCKED TO COMPONENTS ON UNATTACHED WALL.	5. COMPONENT TERMINAL ENDS MUST BE SUPPORTED BY A 12 GA. HANGER WIRE ON ALL WALLS.

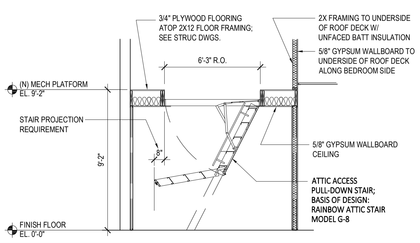


BRACING NOTES		
1. VERTICAL POSTS MAY NOT BE REQUIRED IN SOME CITIES AND NOT ENFORCED IN ALL SEISMIC ZONES. 2. BRACING WIRES TO BE ATTACHED A MAXIMUM OF 45° TO THE PLANE OF	THE CEILING AND PARALLEL TO THE COMPONENTS AT THE BRACING POINT. BRACE WIRES TO BE TAUT AND TIED BOTH ENDS WITH THREE TIGHT WRAPS.

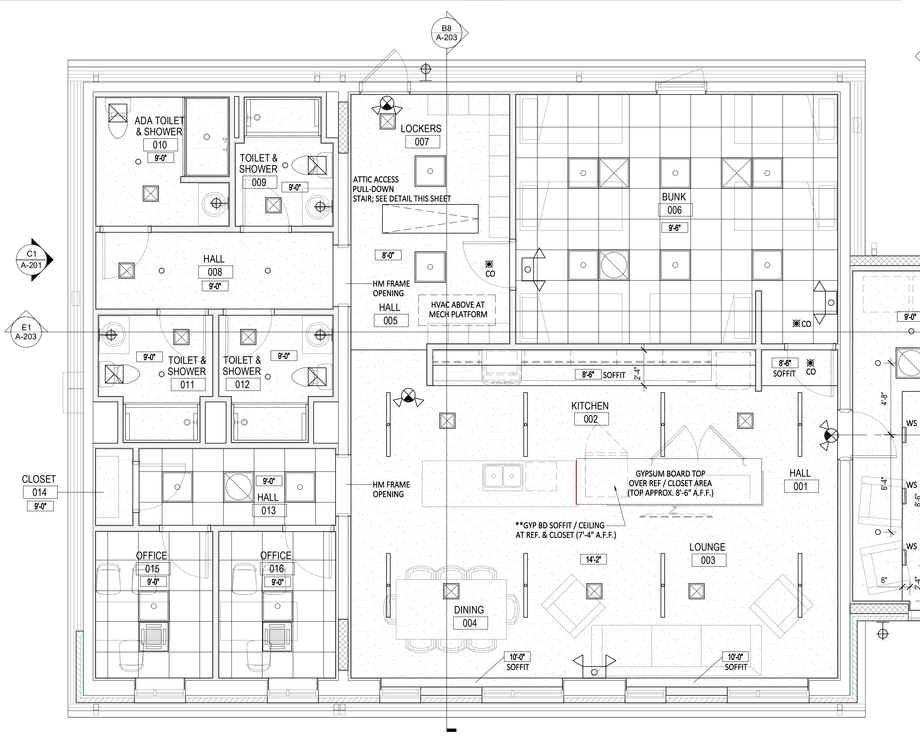
C1	SEISMIC SUSPENDED CEILING DETAILS
A-102	SCALE: N.T.S.

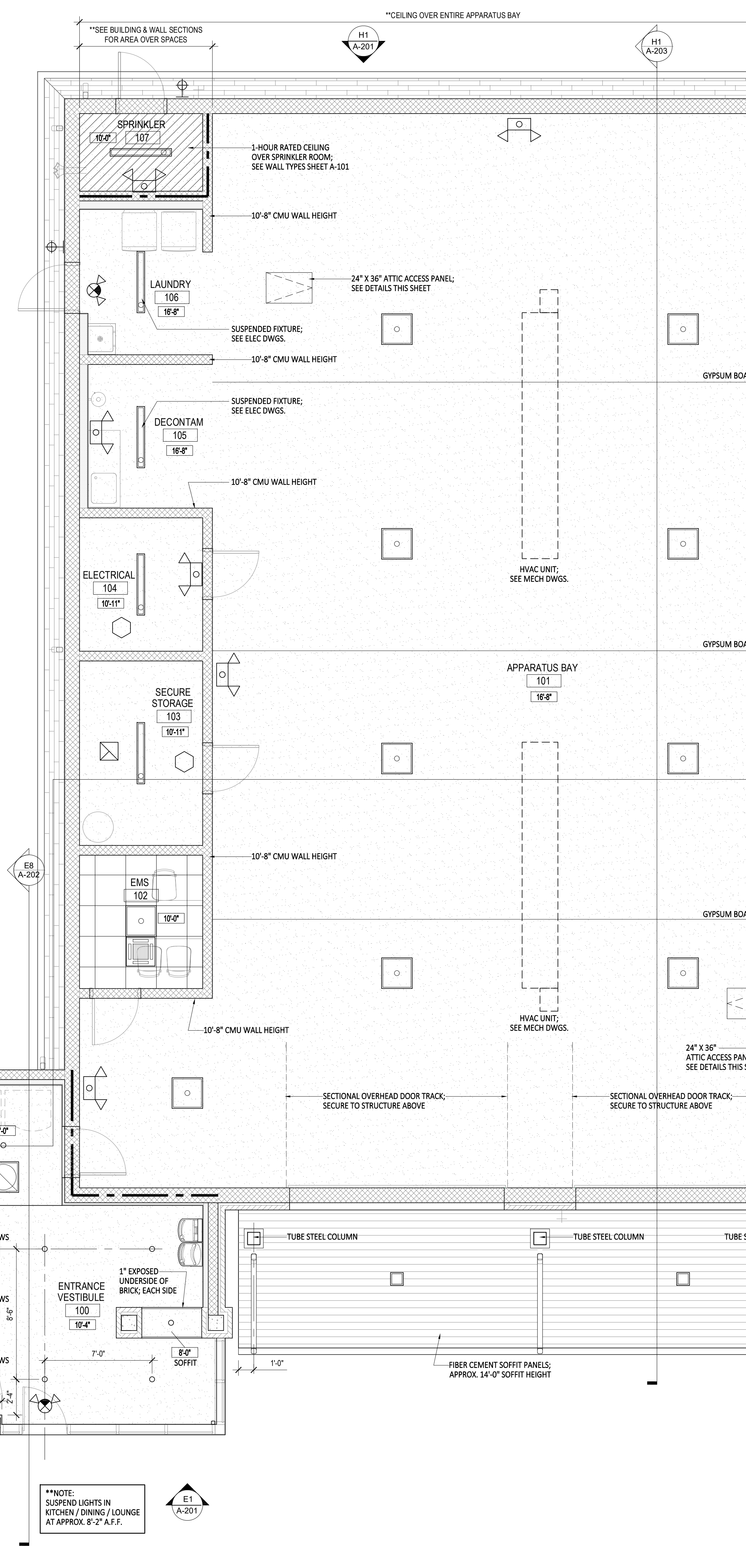


D1	APPARATUS BAY ACCESS PANEL
A-102	SCALE: N.T.S.

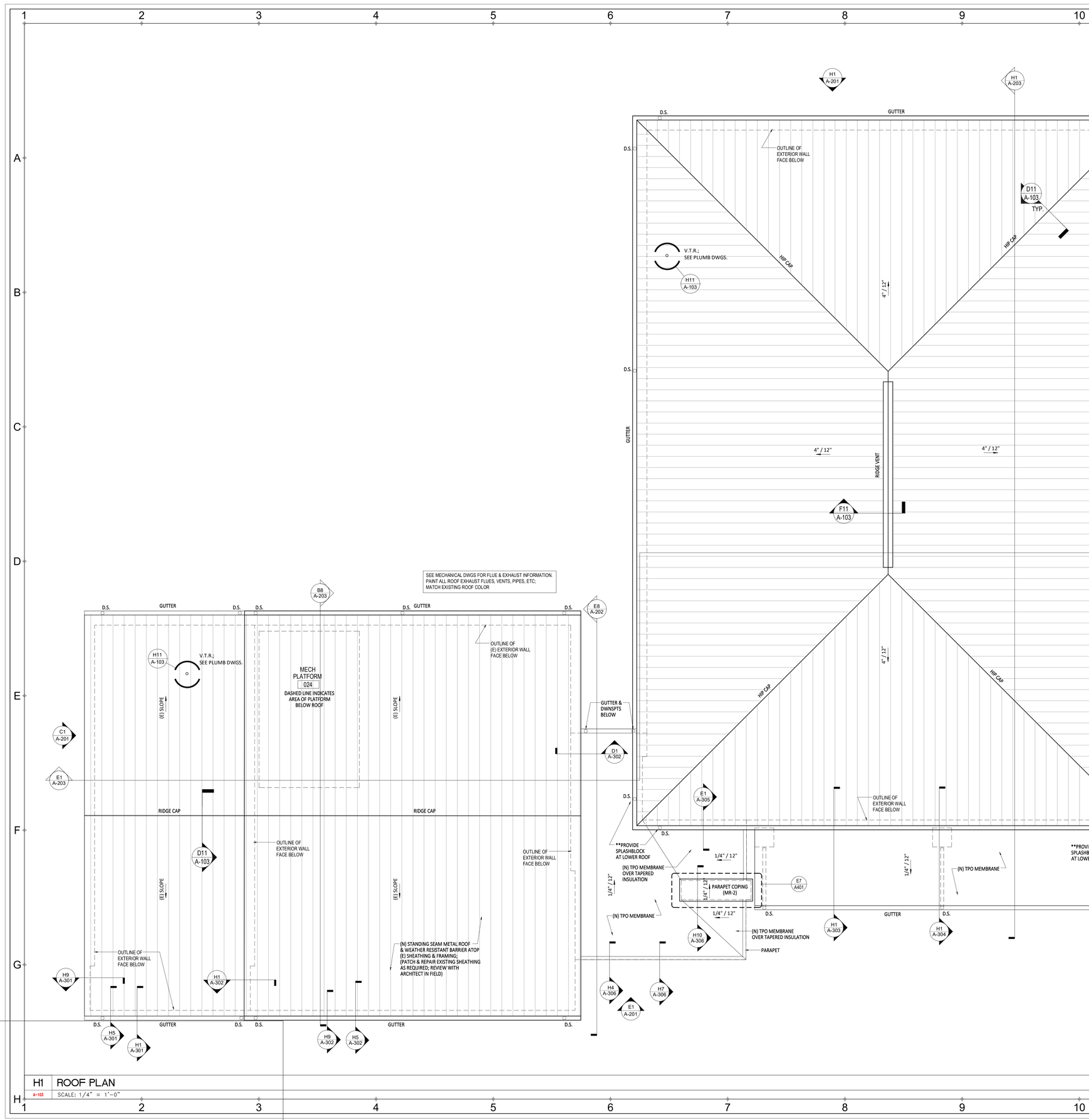


D4	PULL DOWN STAIR DETAIL
A-102	SCALE: 1/4" = 1'-0"





H1	REFLECTED CEILING PLAN
A-102	SCALE: 1/4" = 1'-0"



H1 ROOF PLAN

A-103 SCALE: 1/4" = 1'-0"

ROOM FINISH SCHEDULE

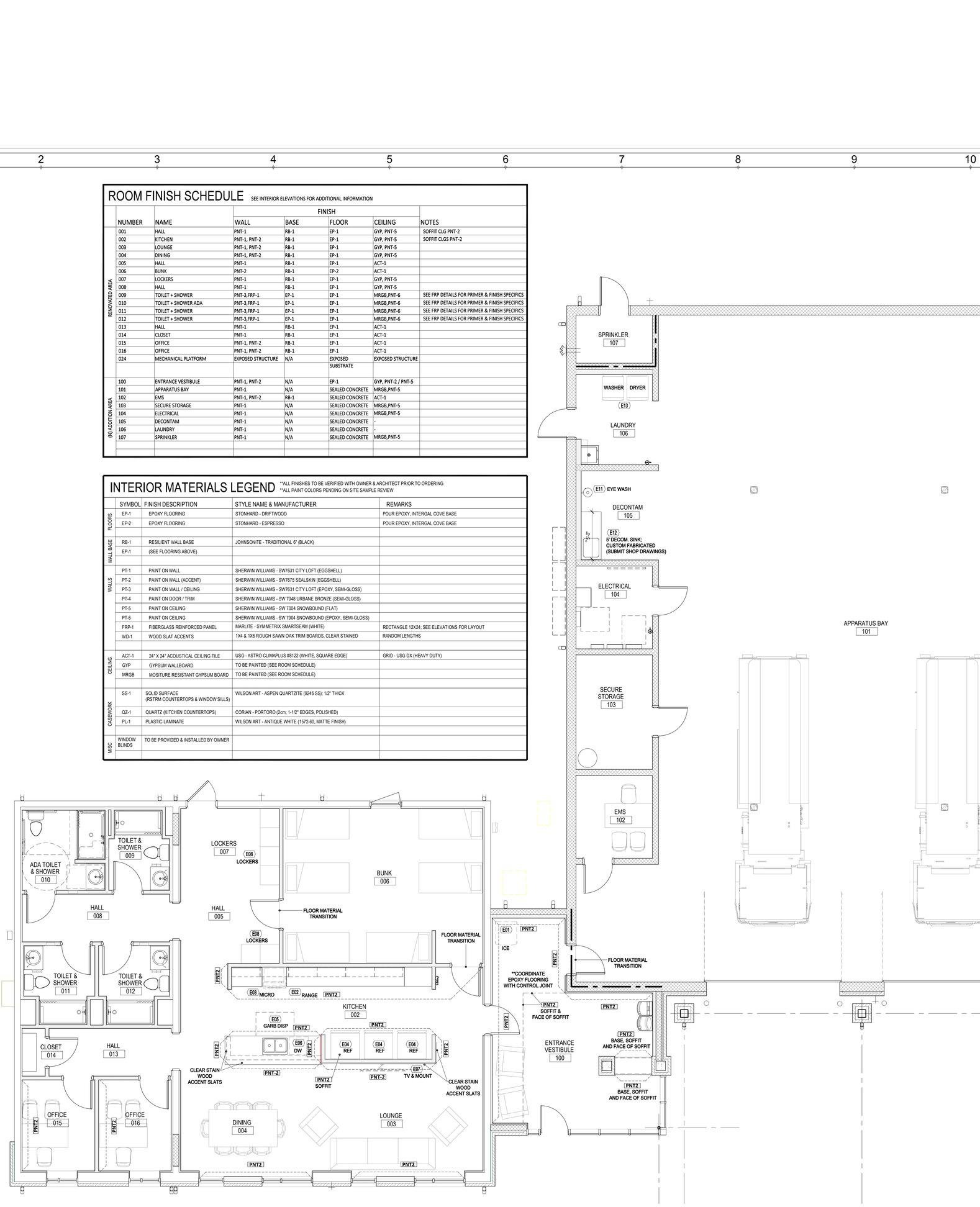
SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION

	NUMBER	NAME	FINISH				NOTES
			WALL	BASE	FLOOR	CEILING	
RENOVATED AREA	001	HALL	PNT-1	RB-1	EP-1	GYP, PNT-5	SOFFIT CLG PNT-2
	002	KITCHEN	PNT-1, PNT-2	RB-1	EP-1	GYP, PNT-5	SOFFIT CLGS PNT-2
	003	LOUNGE	PNT-1, PNT-2	RB-1	EP-1	GYP, PNT-5	
	004	DINING	PNT-1, PNT-2	RB-1	EP-1	GYP, PNT-5	
	005	HALL	PNT-1	RB-1	EP-1	ACT-1	
	006	BUNK	PNT-2	RB-1	EP-2	ACT-1	
	007	LOCKERS	PNT-1	RB-1	EP-1	GYP, PNT-5	
	008	HALL	PNT-1	RB-1	EP-1	GYP, PNT-5	
	009	TOILET + SHOWER	PNT-3,FRP-1	EP-1	EP-1	MRGB,PNT-6	SEE FRP DETAILS FOR PRIMER & FINISH SPECIFICS
	010	TOILET + SHOWER ADA	PNT-3,FRP-1	EP-1	EP-1	MRGB,PNT-6	SEE FRP DETAILS FOR PRIMER & FINISH SPECIFICS
	011	TOILET + SHOWER	PNT-3,FRP-1	EP-1	EP-1	MRGB,PNT-6	SEE FRP DETAILS FOR PRIMER & FINISH SPECIFICS
	012	TOILET + SHOWER	PNT-3,FRP-1	EP-1	EP-1	MRGB,PNT-6	SEE FRP DETAILS FOR PRIMER & FINISH SPECIFICS
	013	HALL	PNT-1	RB-1	EP-1	ACT-1	
	014	CLOSET	PNT-1	RB-1	EP-1	ACT-1	
	015	OFFICE	PNT-1, PNT-2	RB-1	EP-1	ACT-1	
	016	OFFICE	PNT-1, PNT-2	RB-1	EP-1	ACT-1	
	024	MECHANICAL PLATFORM	EXPOSED STRUCTURE	N/A	EXPOSED SUBSTRATE	EXPOSED STRUCTURE	
(N) ADDITION AREA	100	ENTRANCE VESTIBULE	PNT-1, PNT-2	N/A	EP-1	GYP, PNT-2 / PNT-5	
	101	APPARATUS BAY	PNT-1	N/A	SEALED CONCRETE	MRGB,PNT-5	
	102	EMS	PNT-1, PNT-2	RB-1	SEALED CONCRETE	ACT-1	
	103	SECURE STORAGE	PNT-1	N/A	SEALED CONCRETE	MRGB,PNT-5	
	104	ELECTRICAL	PNT-1	N/A	SEALED CONCRETE	MRGB,PNT-5	
	105	DECONTAM	PNT-1	N/A	SEALED CONCRETE	-	
	106	LAUNDRY	PNT-1	N/A	SEALED CONCRETE	-	
	107	SPRINKLER	PNT-1	N/A	SEALED CONCRETE	MRGB,PNT-5	

INTERIOR MATERIALS LEGEND

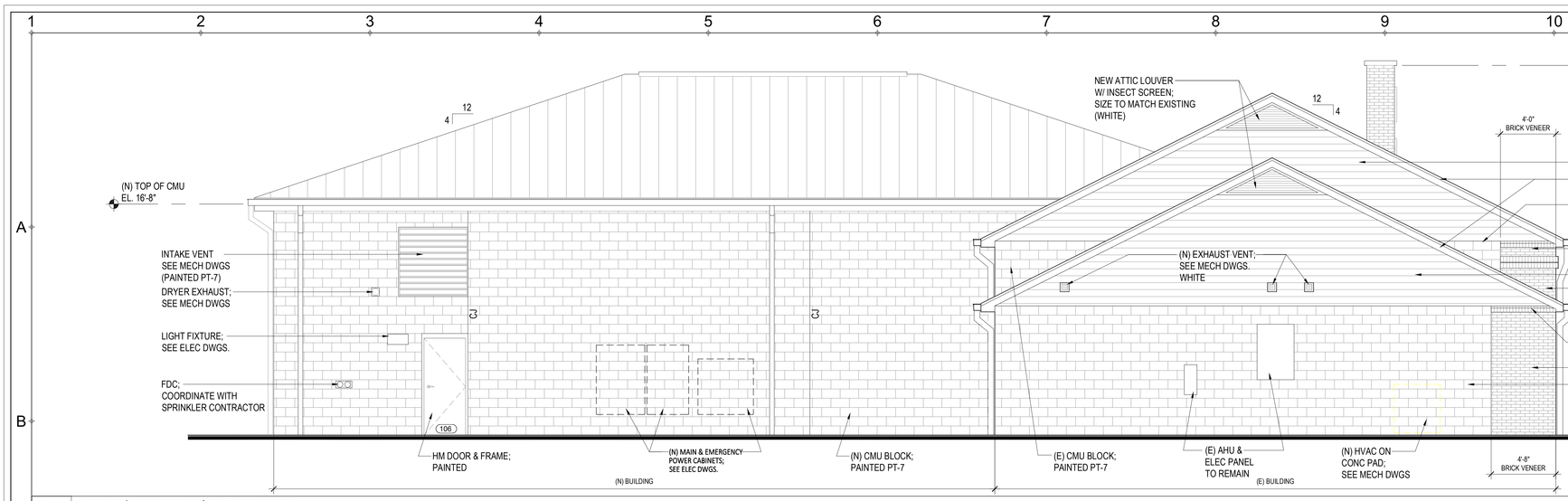
**ALL FINISHES TO BE VERIFIED WITH OWNER & ARCHITECT PRIOR TO ORDERING
**ALL PAINT COLORS PENDING ON SITE SAMPLE REVIEW

	SYMBOL	FINISH DESCRIPTION	STYLE NAME & MANUFACTURER	REMARKS
FLOORS	EP-1	EPOXY FLOORING	STONHARD - DRIFTWOOD	POUR EPOXY, INTERGAL COVE BASE
	EP-2	EPOXY FLOORING	STONHARD - ESPRESSO	POUR EPOXY, INTERGAL COVE BASE
WALL BASE	RB-1	RESILIENT WALL BASE	JOHNSONITE - TRADITIONAL 6" (BLACK)	
	EP-1	(SEE FLOORING ABOVE)		
WALLS	PT-1	PAINT ON WALL	SHERWIN WILLIAMS - SW7631 CITY LOFT (EGGSHELL)	
	PT-2	PAINT ON WALL (ACCENT)	SHERWIN WILLIAMS - SW7675 SEALSKIN (EGGSHELL)	
	PT-3	PAINT ON WALL / CEILING	SHERWIN WILLIAMS - SW7631 CITY LOFT (EPOXY, SEMI-GLOSS)	
	PT-4	PAINT ON DOOR / TRIM	SHERWIN WILLIAMS - SW 7048 URBANE BRONZE (SEMI-GLOSS)	
	PT-5	PAINT ON CEILING	SHERWIN WILLIAMS - SW 7004 SNOWBOUND (FLAT)	
	PT-6	PAINT ON CEILING	SHERWIN WILLIAMS - SW 7004 SNOWBOUND (EPOXY, SEMI-GLOSS)	
	FRP-1	FIBERGLASS REINFORCED PANEL	MARLITE - SYMMETRIX SMARTSEAM (WHITE)	RECTANGLE 12X24; SEE ELEVATIONS FOR LAYOUT
	WD-1	WOOD SLAT ACCENTS	1X4 & 1X6 ROUGH SAWN OAK TRIM BOARDS, CLEAR STAINED	RANDOM LENGTHS
CEILING	ACT-1	24" X 24" ACOUSTICAL CEILING TILE	USG - ASTRO CLIMAPLUS #8122 (WHITE, SQUARE EDGE)	GRID - USG DX (HEAVY DUTY)
	GYP	GYPSUM WALLBOARD	TO BE PAINTED (SEE ROOM SCHEDULE)	
	MRGB	MOISTURE RESISTANT GYPSUM BOARD	TO BE PAINTED (SEE ROOM SCHEDULE)	
CASEWORK	SS-1	SOLID SURFACE (RSTRM COUNTERTOPS & WINDOW SILLS)	WILSON ART - ASPEN QUARTZITE (9245 SS); 1/2" THICK	
	QZ-1	QUARTZ (KITCHEN COUNTERTOPS)	CORIAN - PORTORO (2cm; 1-1/2" EDGES, POLISHED)	
	PL-1	PLASTIC LAMINATE	WILSON ART - ANTIQUE WHITE (1572-60, MATTE FINISH)	
MISC	WINDOW BLINDS	TO BE PROVIDED & INSTALLED BY OWNER		



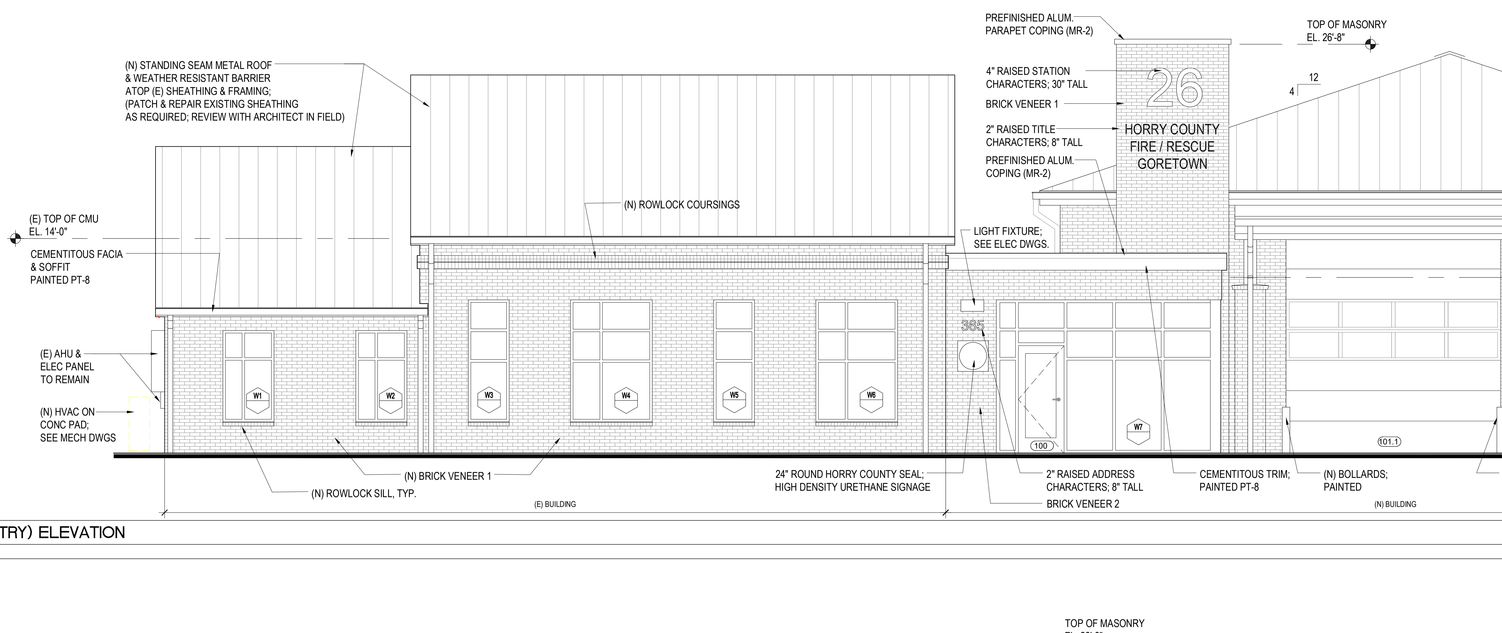
H1 FINISH, FURNITURE + EQUIPMENT PLAN

A-104 SCALE: 1/4" = 1'-0"



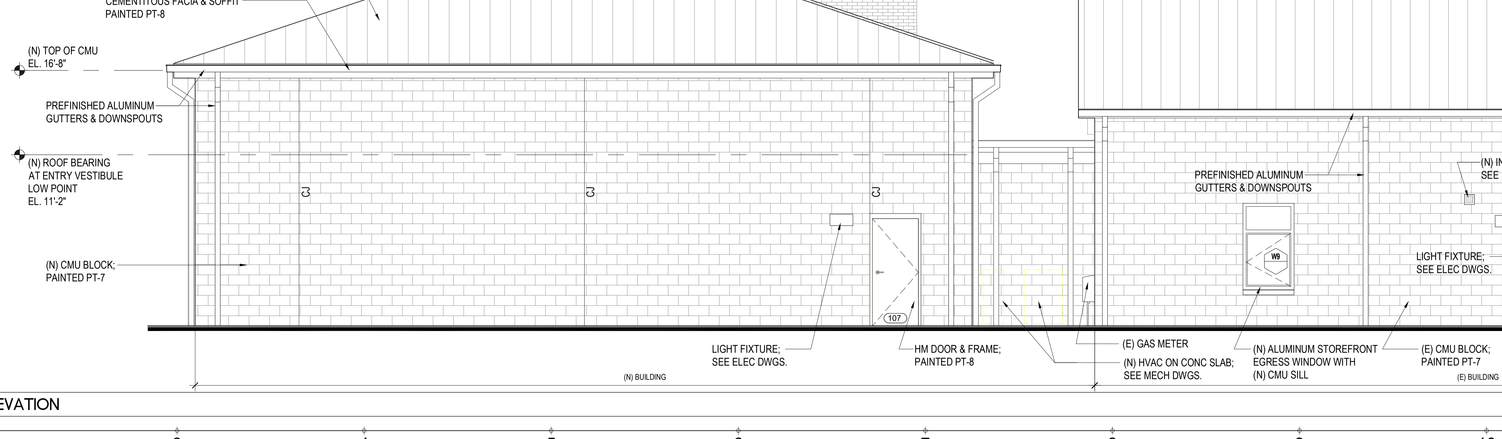
C1 WEST (LEFT SIDE) ELEVATION

A-201 SCALE: 1/4" = 1'-0"



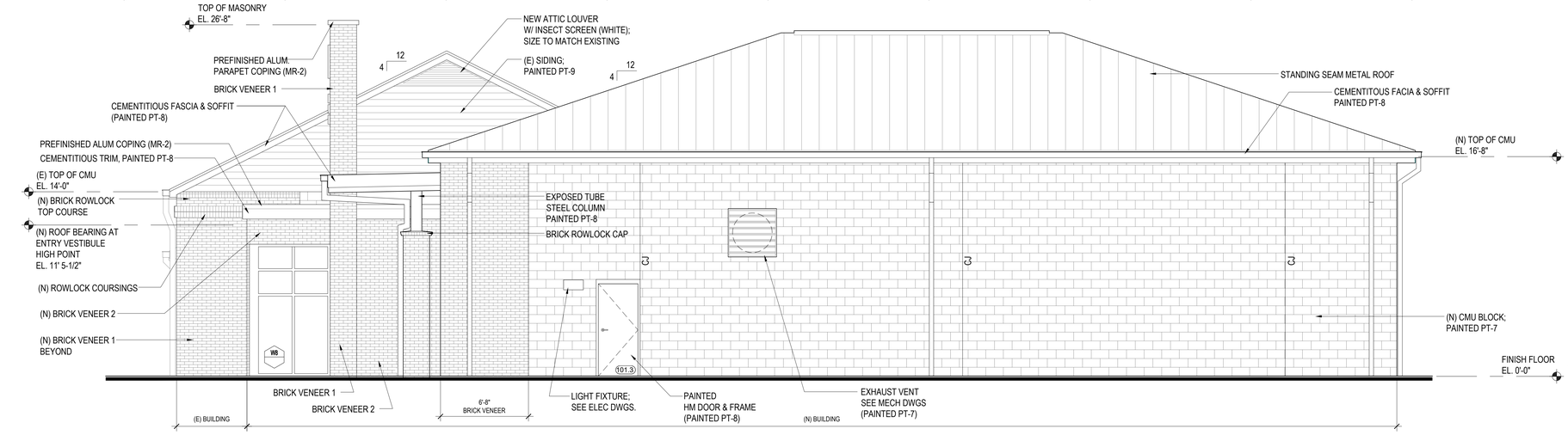
E1 SOUTH (FRONT ENTRY) ELEVATION

A-201 SCALE: 1/4" = 1'-0"



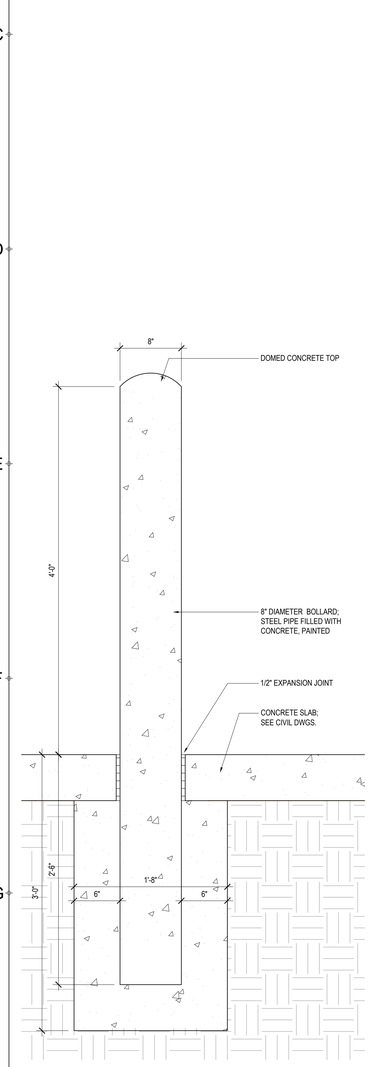
H1 NORTH (REAR) ELEVATION

A-201 SCALE: 1/4" = 1'-0"



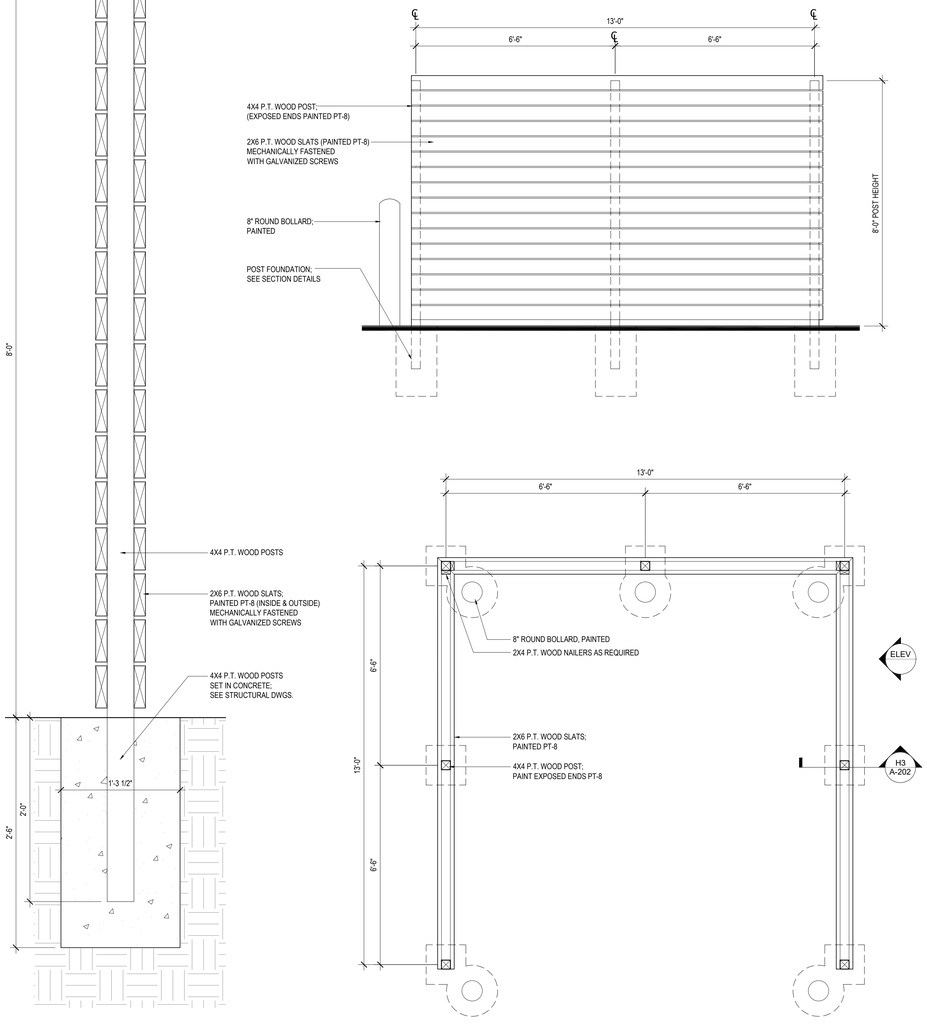
C1 EAST (RIGHT SIDE) ELEVATION

A-202 SCALE: 1/4" = 1'-0"



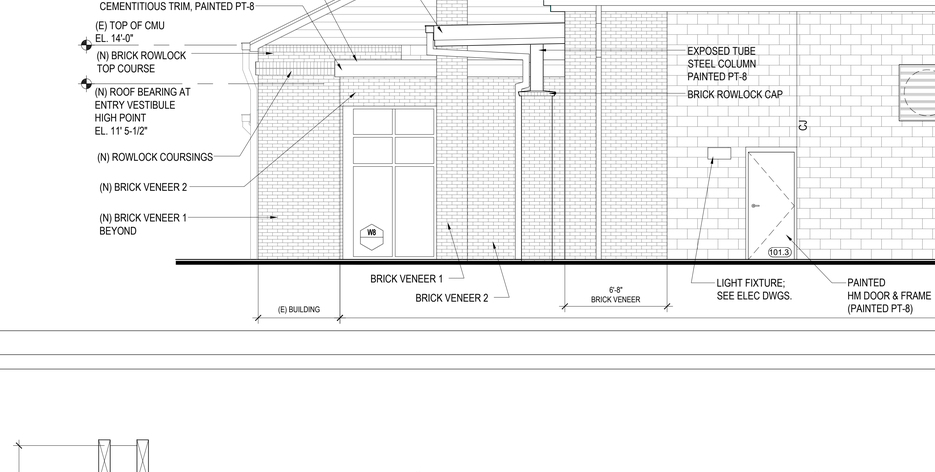
H1 BOLLARD DETAIL, TYP.

A-202 SCALE: 1-1/2" = 1'-0"



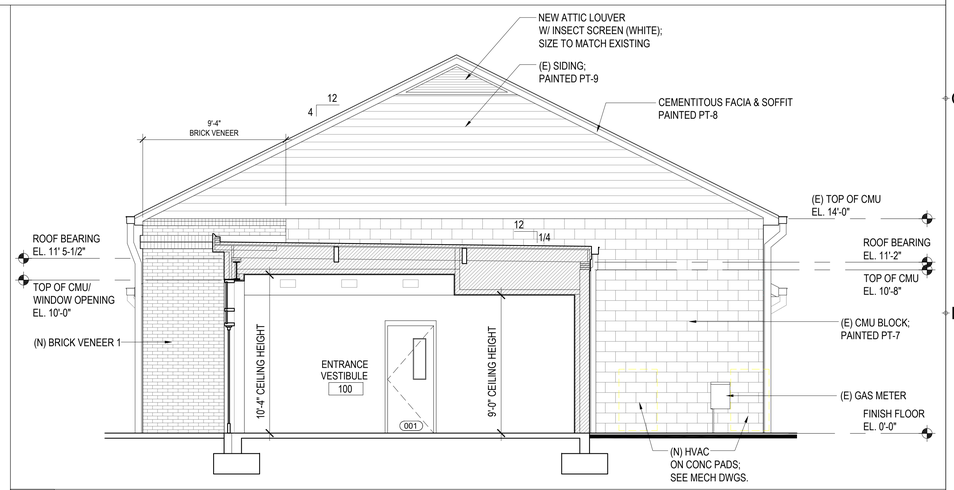
H3 DUMPSTER SECTION

A-202 SCALE: 1-1/2" = 1'-0"



H5 DUMPSTER PLAN + ELEVATION

A-202 SCALE: 1/2" = 1'-0"



E8 EAST ELEVATION THRU ENTRY CONNECTOR

A-202 SCALE: 1/4" = 1'-0"

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843.455.6879

STATE OF SOUTH CAROLINA — Doyle Architecture, LLC, Conway, SC, No. 10150 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — PAUL A. DOYLE, JR. — 17389 — REGISTERED ARCHITECT

Additions & Renovations to:
GORETOWN FIRE STATION
Loris, South Carolina
For:
HORRY COUNTY

PROJECT NO: 22-136

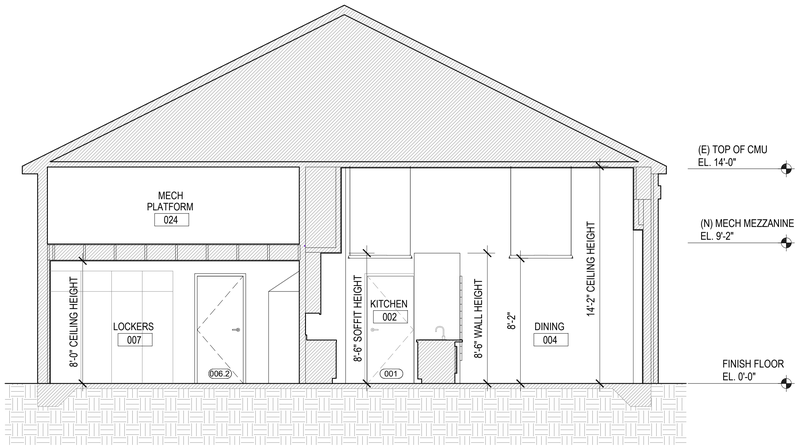
DATE: Dec 31, 2025
Construction Documents

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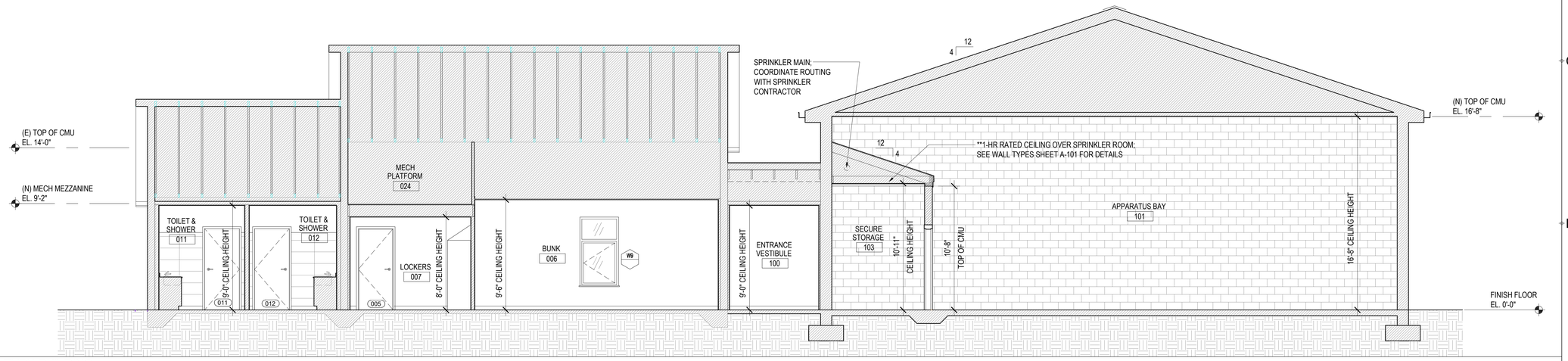
TITLE:
EXTERIOR BUILDING ELEVATIONS, DUMPSTER & BOLLARD DETAILS

SHEET:
A-202



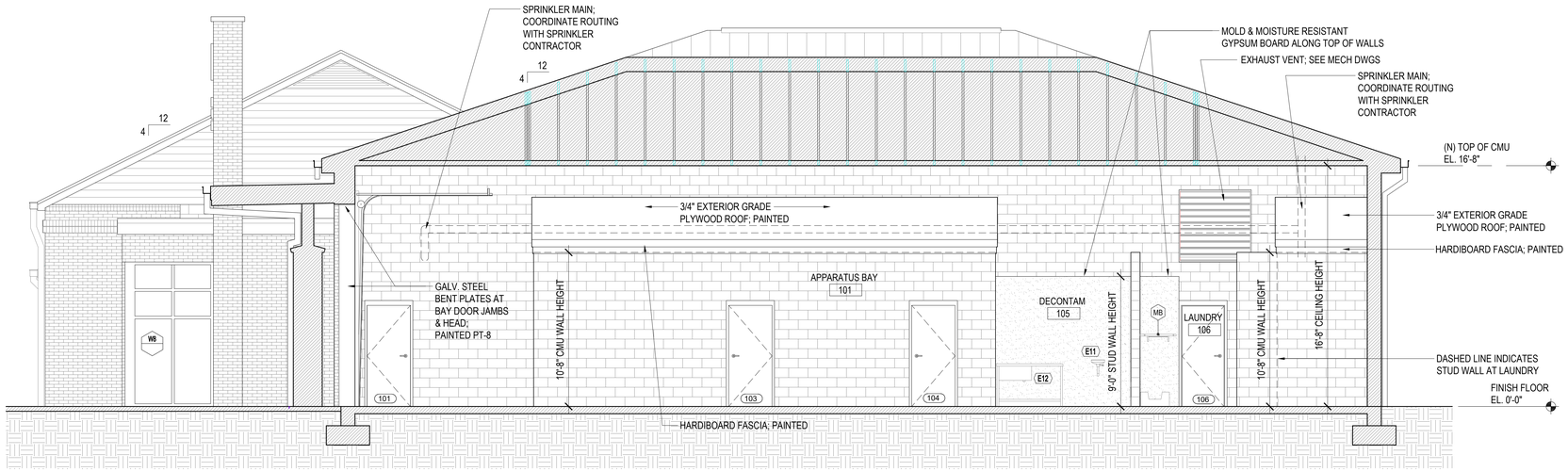
B8 SECTION THRU PLATFORM

A-203 SCALE: 1/4" = 1'-0"



E1 CROSS SECTION THRU BUILDING

A-203 SCALE: 1/4" = 1'-0"



H1 SECTION THRU APPARTUS BAY

203 SCALE: 1/4" = 1'-0"

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STATE OF SOUTH CAROLINA
Doyle Architecture, LLC
Conway, SC
No. 10150
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
PAUL D. DOYLE
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7389
REGISTERED ARCHITECT

Additions & Renovations to:
GORETOWN FIRE STATION
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HORRY COUNTY

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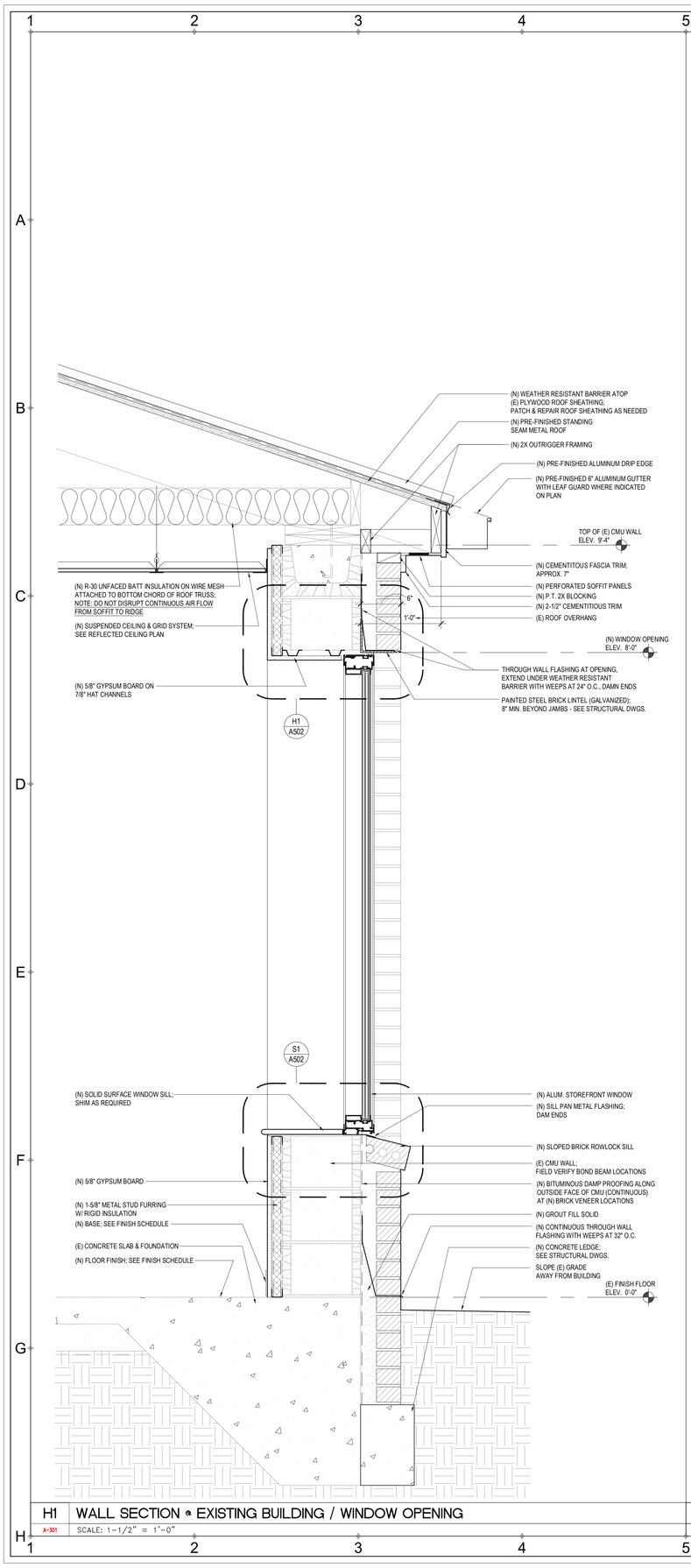
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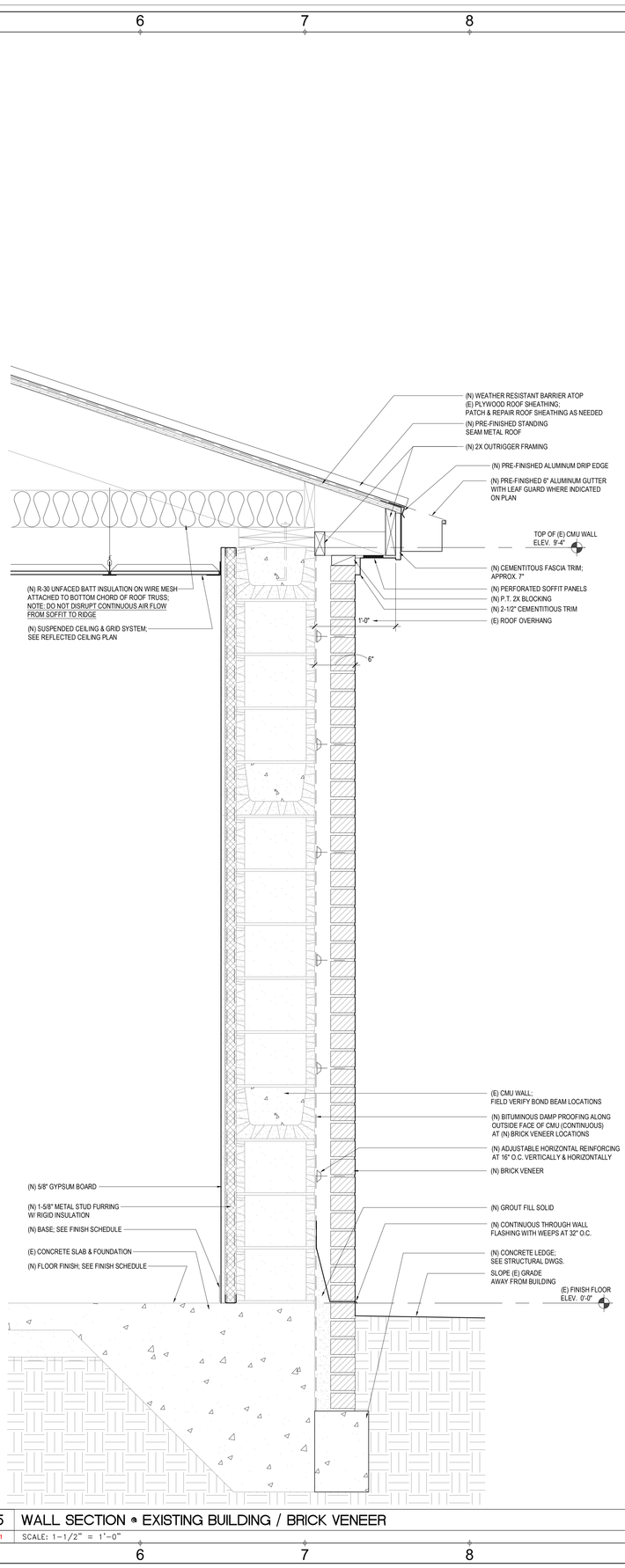
TITLE:
BUILDING
SECTIONS

SHEET:
A-203



H1 WALL SECTION @ EXISTING BUILDING / WINDOW OPENING

A-301 SCALE: 1-1/2" = 1'-0"



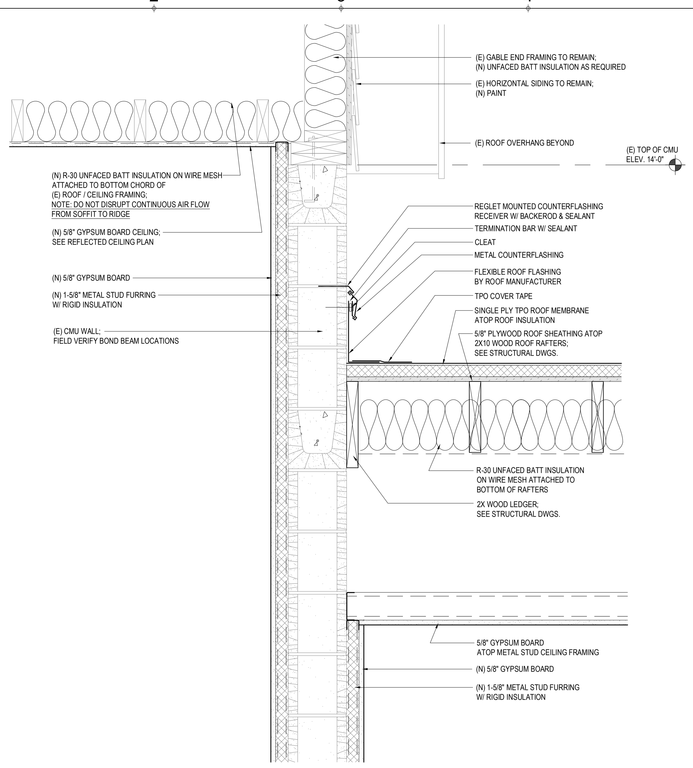
H5 WALL SECTION @ EXISTING BUILDING / BRICK VENEER

A-301 SCALE: 1-1/2" = 1'-0"



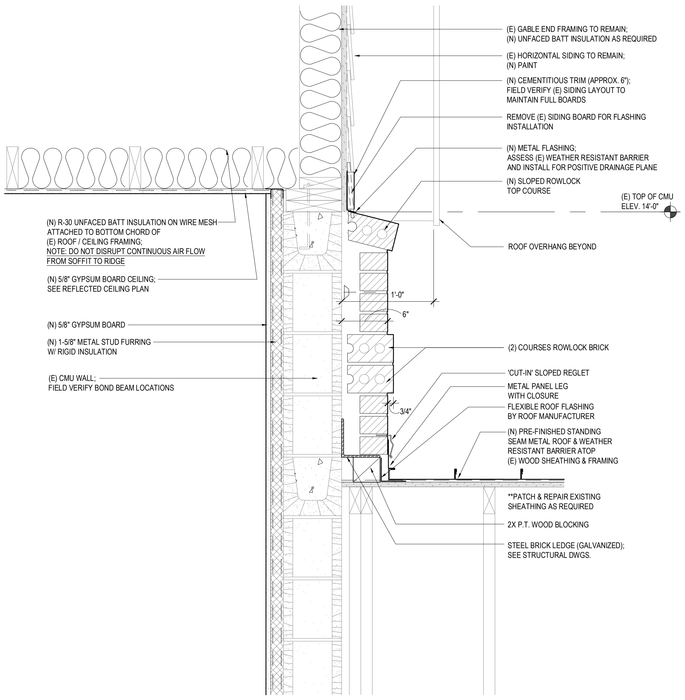
H9 WALL SECTION @ E

A-301 SCALE: 1-1/2" = 1'-0"



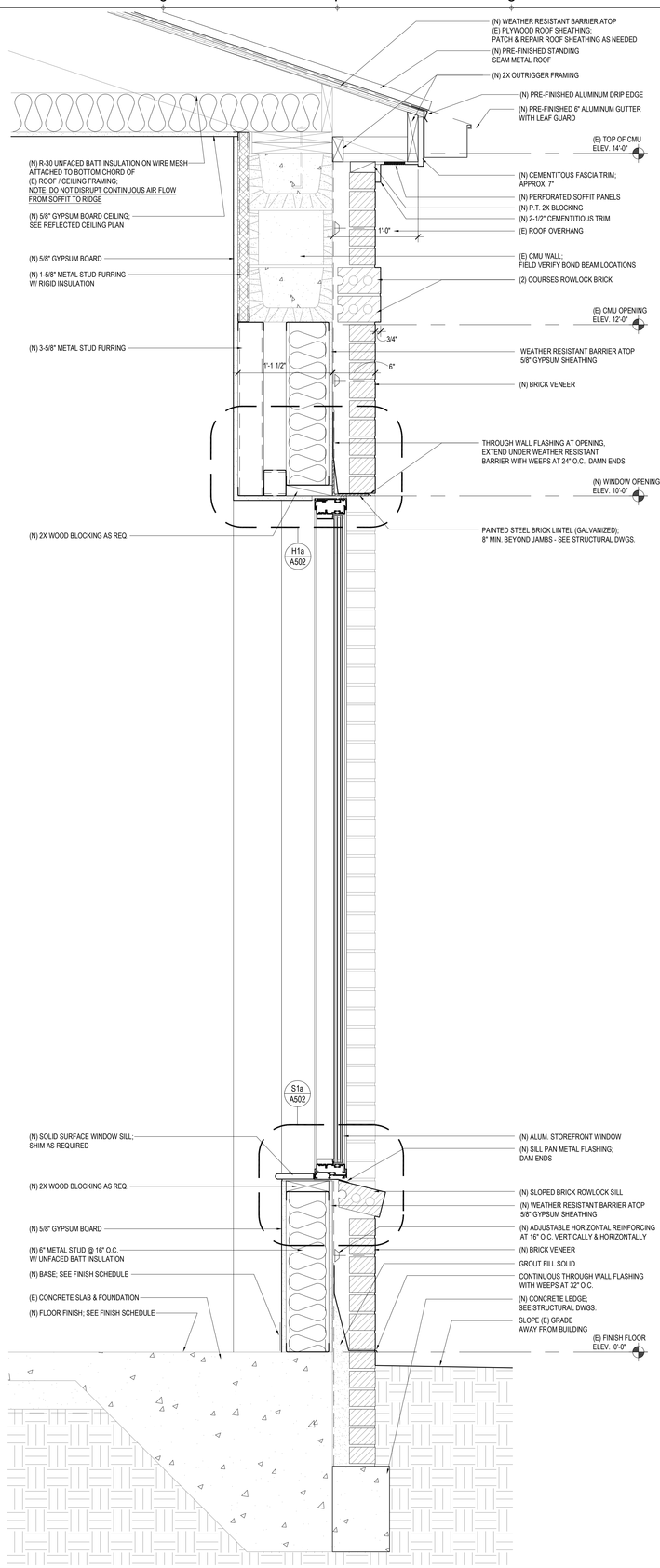
D1 WALL SECTION @ EXISTING BUILDING / CMU / TPO ROOF

A-302 SCALE: 1-1/2" = 1'-0"



H1 WALL SECTION @ EXISTING BUILDING / BRICK VENEER / METAL ROOF

A-302 SCALE: 1-1/2" = 1'-0"



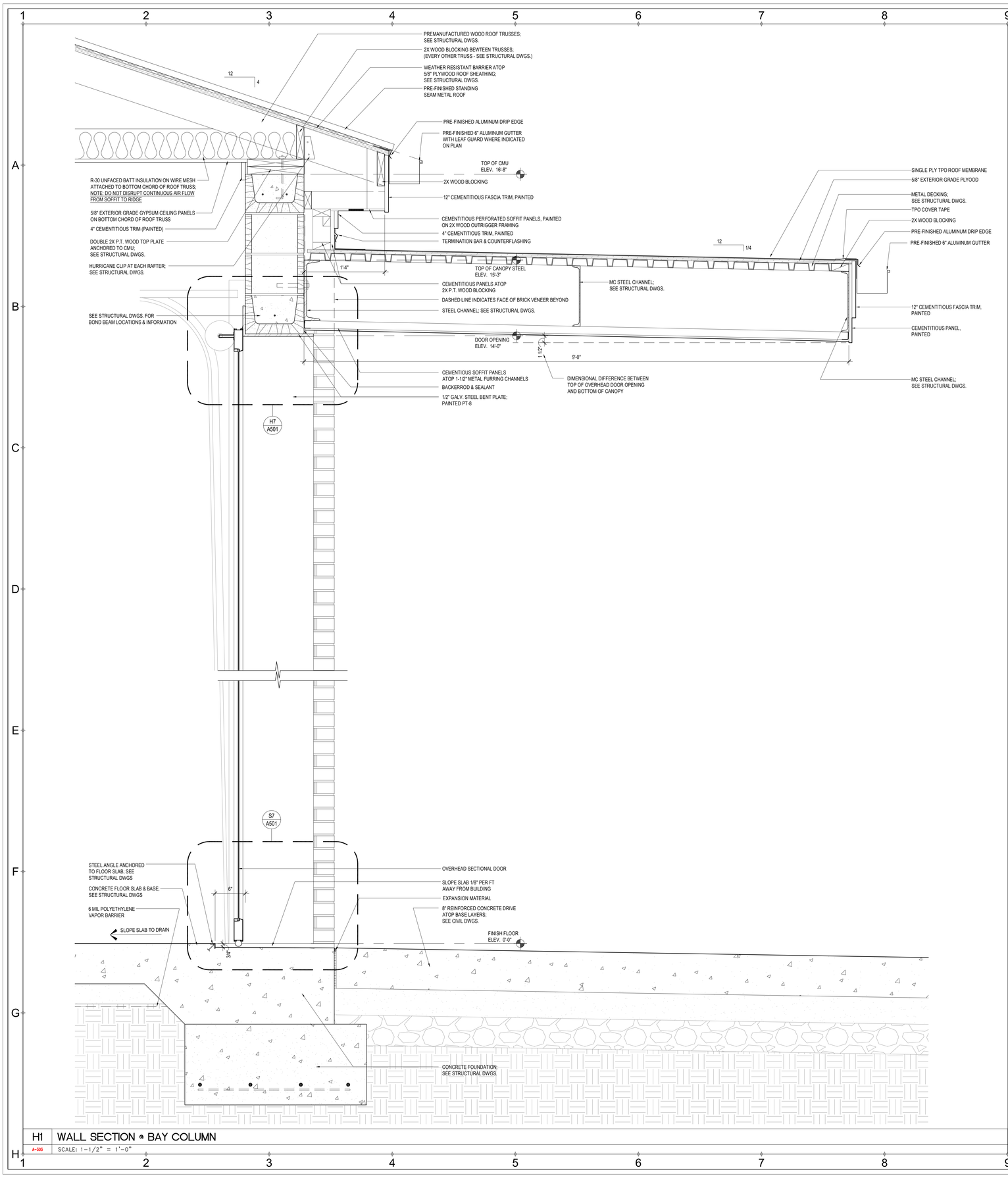
H5 WALL SECTION @ EXISTING BUILDING / BRICK VENEER WINDOW OPENING, TYP.

A-302 SCALE: 1-1/2" = 1'-0"



H9 WALL SECTION @ E

A-302 SCALE: 1-1/2" = 1'-0"

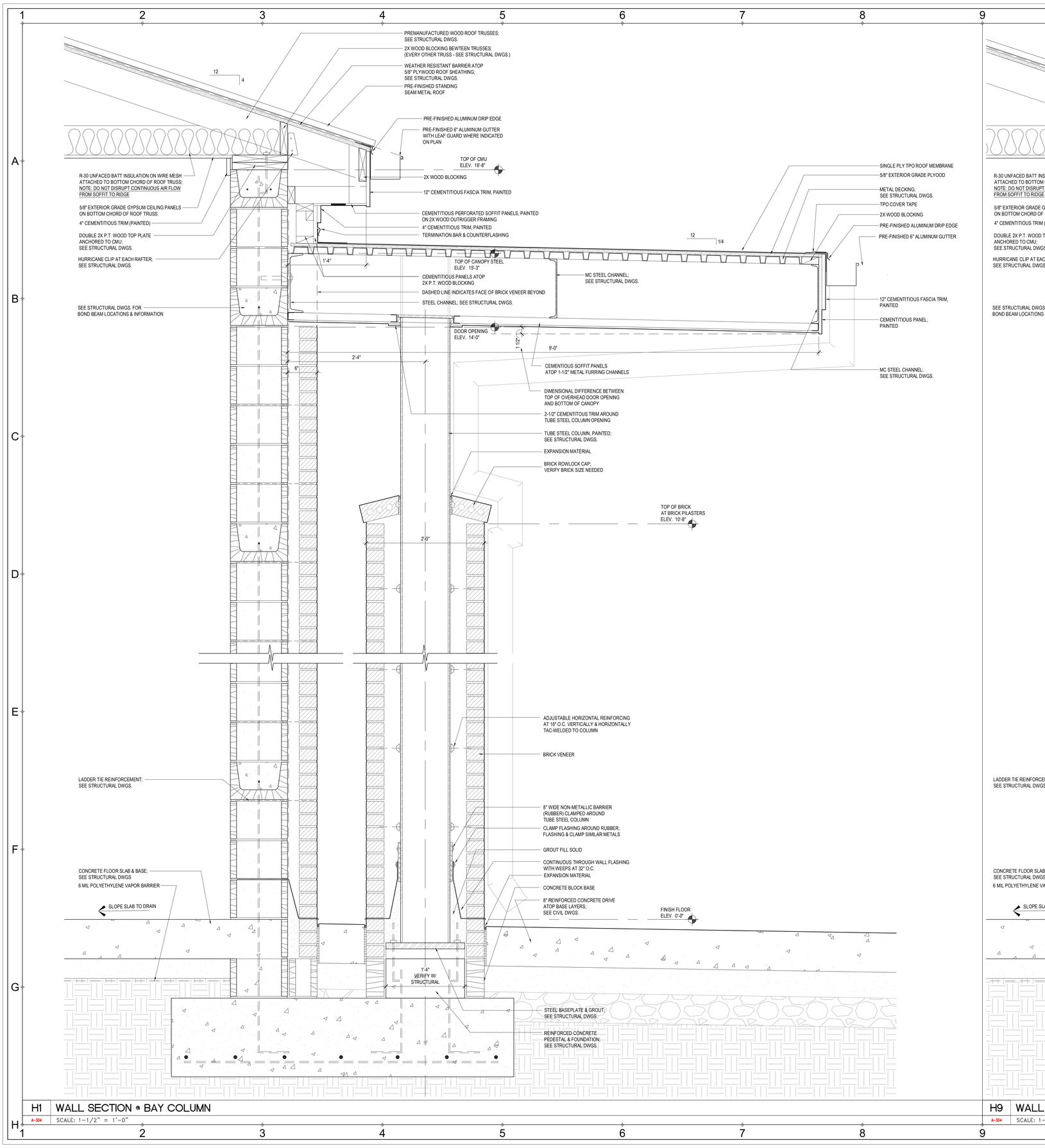


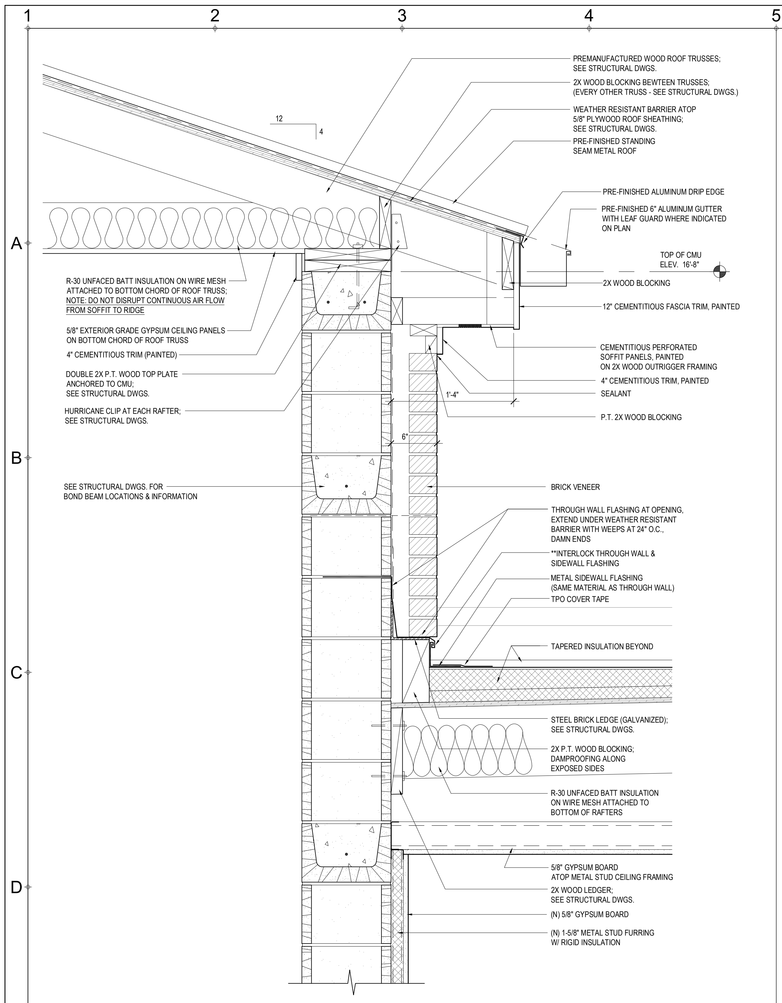
H1 WALL SECTION @ BAY COLUMN

A-303 SCALE: 1-1/2" = 1'-0"

H9 WALL SECTION @ C

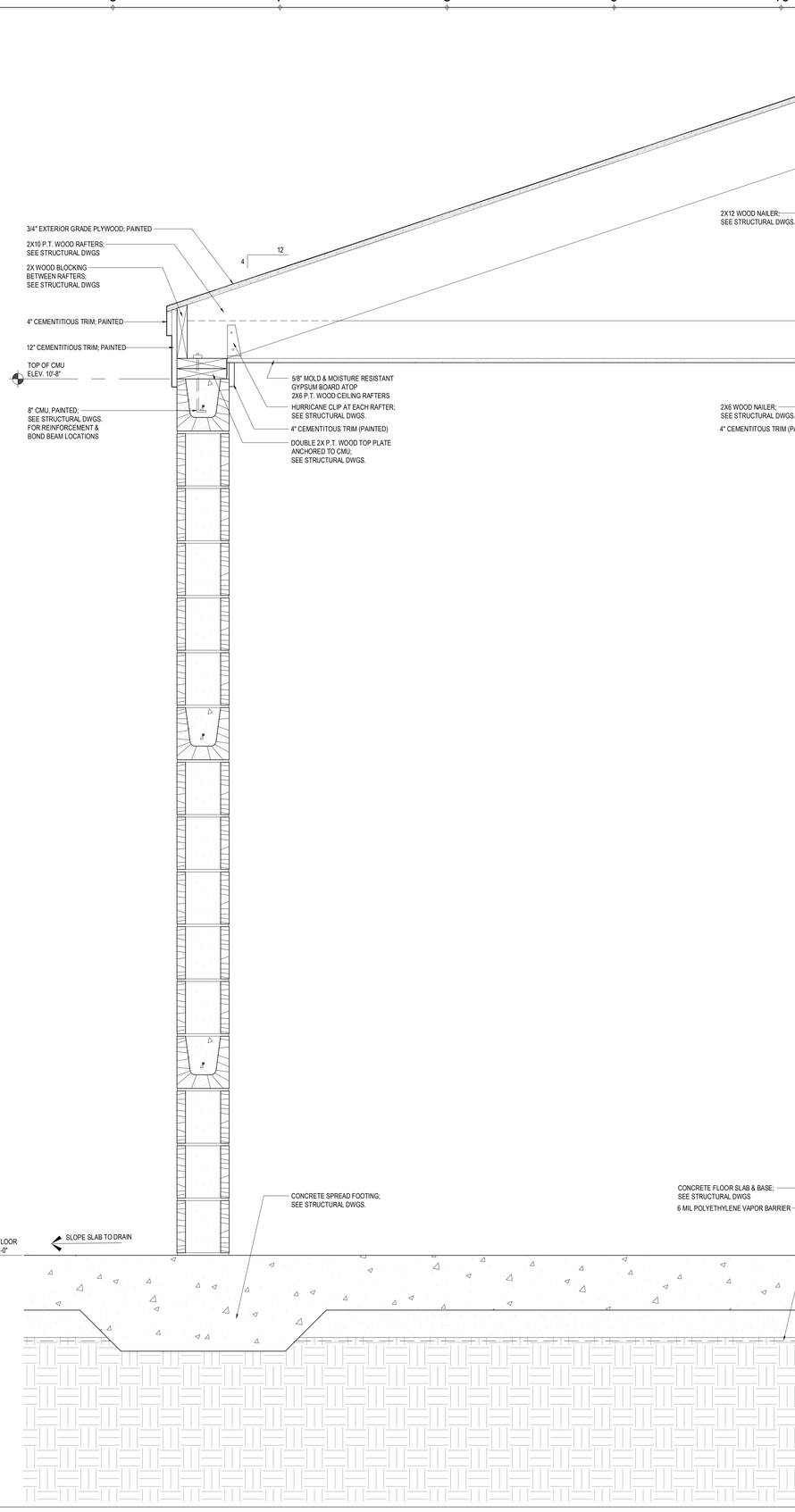
A-303 SCALE: 1-1/2" = 1'-0"


PREMANUFACTURED WOOD ROOF TRUSSES; SEE STRUCTURAL DWGS.
2X WOOD BLOCKING BEWTEEN TRUSSES; (EVERY OTHER TRUSS - SEE STRUCTURAL DWGS.)
WEATHER RESISTANT BARRIER ATOP 5/8" PLYWOOD ROOF SHEATHING; SEE STRUCTURAL DWGS.
PRE-FINISHED STANDING SEAM METAL ROOF
PRE-FINISHED ALUMINUM DRIP EDGE
PRE-FINISHED 6" ALUMINUM GUTTER WITH LEAF GUARD WHERE INDICATED ON PLAN
TOP OF CMU ELEV. 16'-8"
2X WOOD BLOCKING
12" CEMENTITIOUS FASCIA TRIM, PAINTED
CEMENTITIOUS PERFORATED SOFFIT PANELS, PAINTED ON 2X WOOD OUTRIGGER FRAMING
4" CEMENTITIOUS TRIM, PAINTED
TERMINATION BAR & COUNTERFLASHING
R-30 UNFACED BATT INSULATION ON WIRE MESH ATTACHED TO BOTTOM CHORD OF ROOF TRUSS; NOTE: DO NOT DISRUPT CONTINUOUS AIR FLOW FROM SOFFIT TO RIDGE
5/8" EXTERIOR GRADE GYPSUM CEILING PANELS ON BOTTOM CHORD OF ROOF TRUSS
4" CEMENTITIOUS TRIM (PAINTED)
DOUBLE 2X P.T. WOOD TOP PLATE ANCHORED TO CMU; SEE STRUCTURAL DWGS.
HURRICANE CLIP AT EACH RAFTER; SEE STRUCTURAL DWGS.
SEE STRUCTURAL DWGS. FOR BOND BEAM LOCATIONS & INFORMATION
SINGLE PLY TPO ROOF MEMBRANE
5/8" EXTERIOR GRADE PLYOOD
METAL DECKING; SEE STRUCTURAL DWGS.
TPO COVER TAPE
2X WOOD BLOCKING
PRE-FINISHED ALUMINUM DRIP EDGE
PRE-FINISHED 6" ALUMINUM GUTTER
TOP OF CANOPY STEEL ELEV. 15'-3"
CEMENTITIOUS PANELS ATOP 2X P.T. WOOD BLOCKING
DASHED LINE INDICATES FACE OF BRICK VENEER BEYOND
STEEL CHANNEL; SEE STRUCTURAL DWGS.
MC STEEL CHANNEL; SEE STRUCTURAL DWGS.
12" CEMENTITIOUS FASCIA TRIM, PAINTED
CEMENTITIOUS PANEL, PAINTED
DOOR OPENING ELEV. 14'-0"
9'-0"
2'-4"
6"
CEMENTIOUS SOFFIT PANELS ATOP 1-1/2" METAL FURRING CHANNELS
MC STEEL CHANNEL; SEE STRUCTURAL DWGS.
DIMENSIONAL DIFFERENCE BETWEEN TOP OF OVERHEAD DOOR OPENING AND BOTTOM OF CANOPY
2-1/2" CEMENTITOUS TRIM AROUND TUBE STEEL COLUMN OPENING
TUBE STEEL COLUMN, PAINTED; SEE STRUCTURAL DWGS.
EXPANSION MATERIAL
BRICK ROWLOCK CAP; VERIFY BRICK SIZE NEEDED
TOP OF BRICK AT BRICK PILASTERS ELEV. 10'-8"
2'-0"
ADJUSTABLE HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY & HORIZONTALLY TAC-WELDED TO COLUMN
BRICK VENEER
LADDER TIE REINFORCEMENT; SEE STRUCTURAL DWGS.
8" WIDE NON-METALLIC BARRIER (RUBBER) CLAMPED AROUND TUBE STEEL COLUMN
CLAMP FLASHING AROUND RUBBER; FLASHING & CLAMP SIMILAR METALS
GROUT FILL SOLID
CONTINUOUS THROUGH WALL FLASHING WITH WEEPS AT 32" O.C.
EXPANSION MATERIAL
CONCRETE BLOCK BASE
8" REINFORCED CONCRETE DRIVE ATOP BASE LAYERS; SEE CIVIL DWGS.
FINISH FLOOR ELEV. 0'-0"
CONCRETE FLOOR SLAB & BASE; SEE STRUCTURAL DWGS
6 MIL POLYETHYLENE VAPOR BARRIER
SLOPE SLAB TO DRAIN
1'-4" VERIFY W/ STRUCTURAL
STEEL BASEPLATE & GROUT; SEE STRUCTURAL DWGS.
REINFORCED CONCRETE PEDESTAL & FOUNDATION; SEE STRUCTURAL DWGS.
H1 WALL SECTION @ BAY COLUMN
A-304 SCALE: 1-1/2" = 1'-0"
H9 WALL SECTION @ C
A-304 SCALE: 1-1/2" = 1'-0"



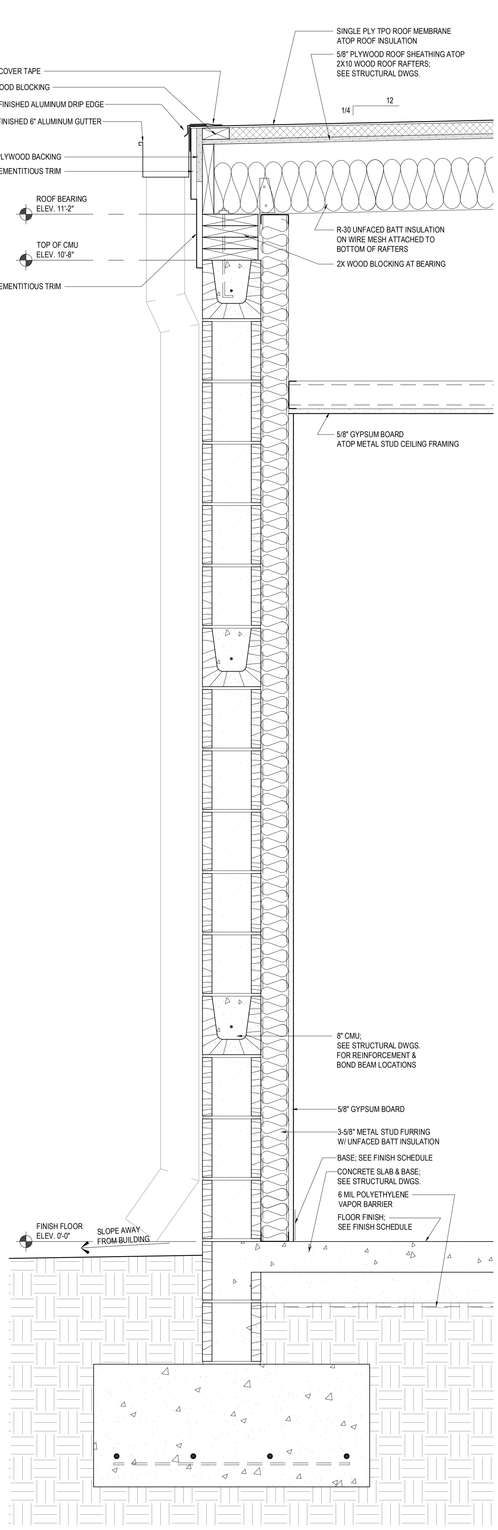
E1 WALL SECTION @ APPARATUS BAY OVER ENTRY VESTIBULE

A-305 SCALE: 1-1/2" = 1'-0"



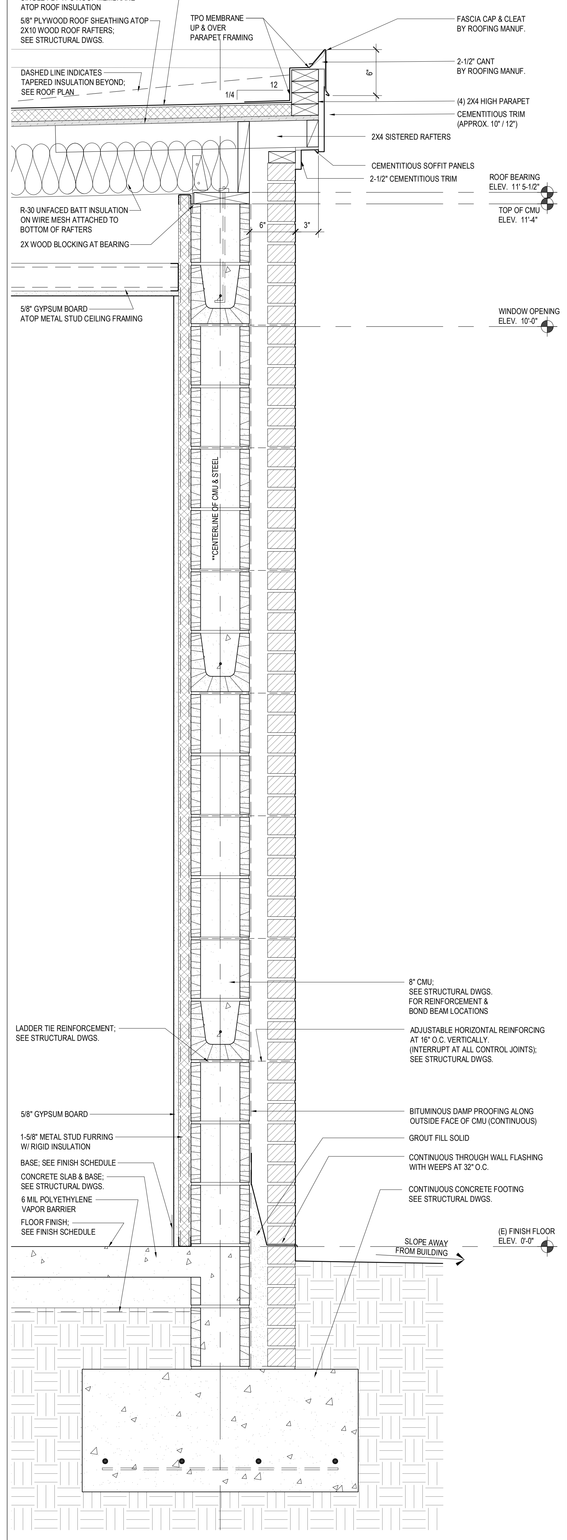
H5 WALL SECTION @ INTERIOR APPARATUS BAY

A-305 SCALE: 1-1/2" = 1'-0"



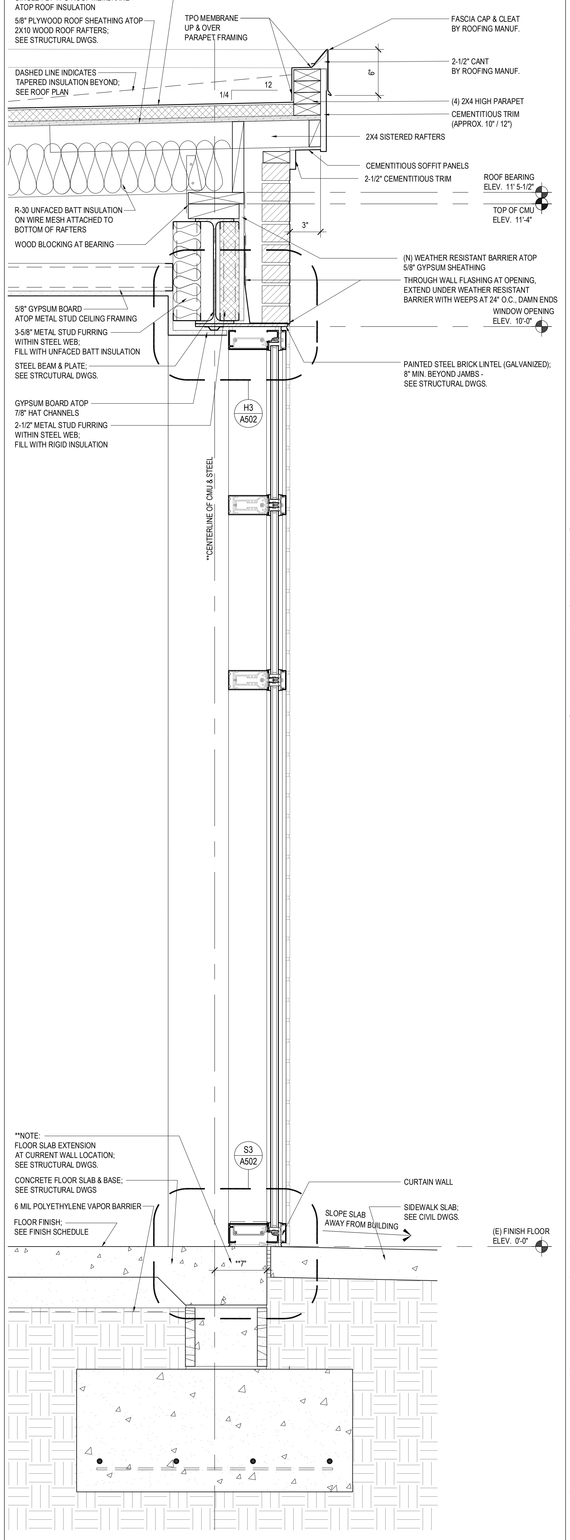
H1 WALL SECTION @ VESTIBULE REAR WALL

A306 SCALE: 1-1/2" = 1'-0"



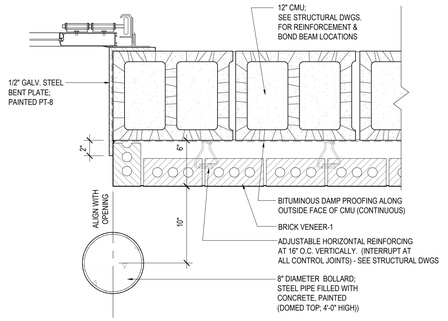
H4 WALL SECTION @ ENTRY CMU / BRICK VENEER

A306 SCALE: 1-1/2" = 1'-0"



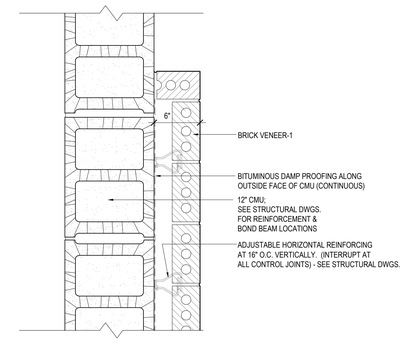
H7 WALL SECTION @ ENTRY CURTAIN WALL

A306 SCALE: 1-1/2" = 1'-0"



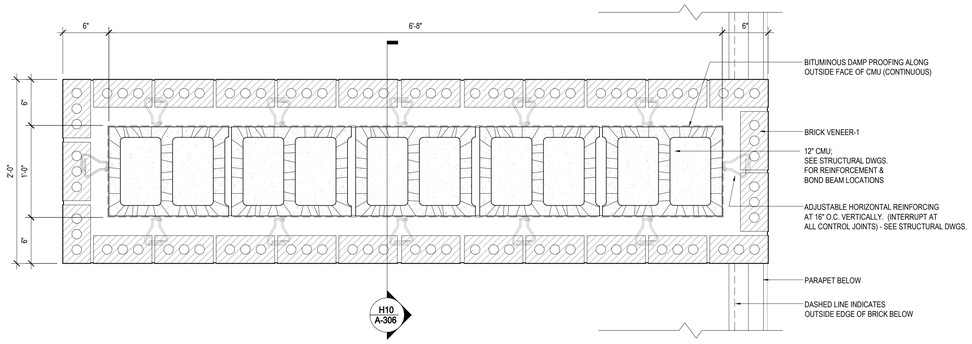
C7 PLAN DETAIL @ APPARATUS BAY DOOR JAMB

A-401 SCALE: 1-1/2" = 1'-0"



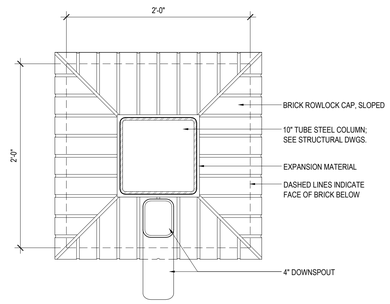
C10 PLAN DETAIL @ BRICK VENEER END / CMU

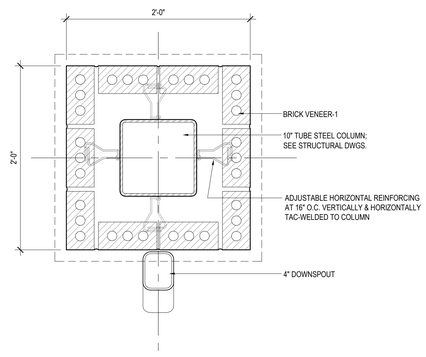
A-401 SCALE: 1-1/2" = 1'-0"



E7 PLAN DETAIL @ BRICK COLUMN ABOVE VESTIBULE

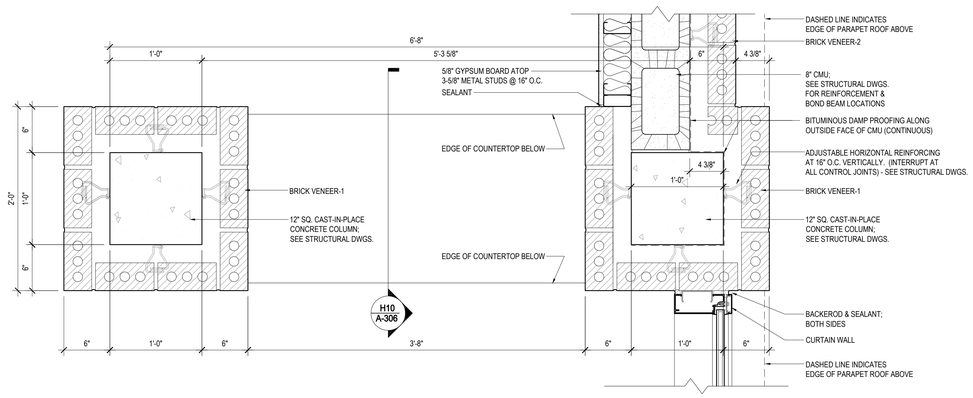
A-401 SCALE: 1-1/2" = 1'-0"





H4 PLAN DETAIL @ BRICK COLUMN OUTSIDE APPARTUS BAY

A-401 SCALE: 1-1/2" = 1'-0"



H7 PLAN DETAIL @ BRICK COLUMN IN VESTIBULE

A-401 SCALE: 1-1/2" = 1'-0"

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315 MAIN STREET, SUITE 2B
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STATE OF SOUTH CAROLINA
Doyle Architecture, LLC
Conway, SC
No. 10150
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
PAUL A. DOYLE
NUMBER
7389
REGISTERED ARCHITECT

Additions & Renovations to:
GORETOWN FIRE STATION
Loris, South Carolina
For:
HORRY COUNTY

PROJECT NO: 22-136

DATE: Dec 31, 2025
Construction Documents

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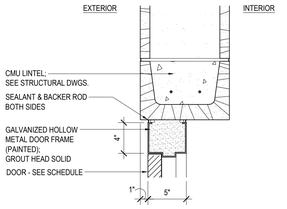
REVISIONS:

TITLE:

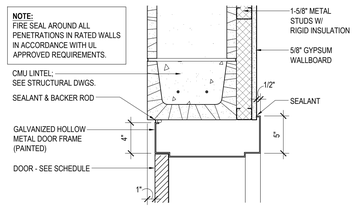
EXTERIOR
PLAN DETAILS

SHEET:

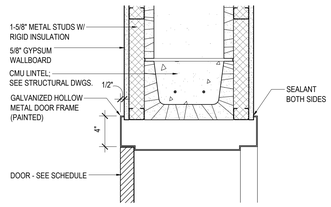
A-401



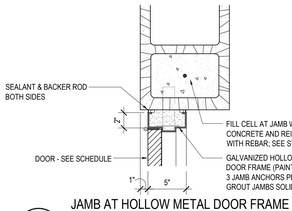
H1 HEAD AT HOLLOW METAL DOOR FRAME AT INTERIOR / EXTERIOR CMU WALL
SCALE: 1-1/2"=1'-0"



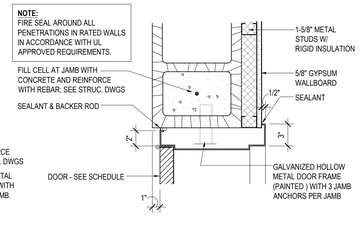
H2 HEAD AT HOLLOW METAL DOOR FRAME AT INTERIOR CMU / GYPSUM BOARD WALL
SCALE: 1-1/2"=1'-0"



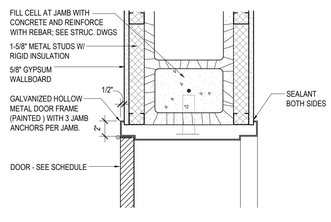
H3 HEAD AT HOLLOW METAL DOOR FRAME AT INTERIOR CMU / GYPSUM BOARD WALL
SCALE: 1-1/2"=1'-0"



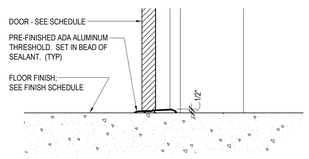
J1 JAMB AT HOLLOW METAL DOOR FRAME AT INTERIOR / EXTERIOR CMU WALL
SCALE: 1-1/2"=1'-0"



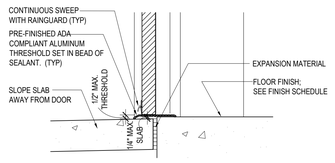
J2 JAMB AT HOLLOW METAL DOOR FRAME AT INTERIOR CMU / GYPSUM BOARD WALL
SCALE: 1-1/2"=1'-0"



J3 JAMB AT HOLLOW METAL DOOR FRAME AT INTERIOR CMU / GYPSUM BOARD WALL
SCALE: 1-1/2"=1'-0"



S1 SILL AT HOLLOW METAL DOOR FRAME AT INTERIOR CMU WALL
SCALE: 1-1/2"=1'-0"

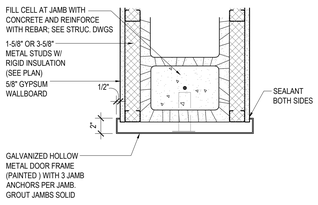


S2 SILL AT HOLLOW METAL DOOR FRAME AT EXTERIOR CMU WALL
SCALE: 1-1/2"=1'-0"

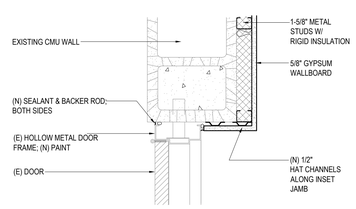
H4 HEAD AT HOLLOW METAL FRAME (NO DOOR) AT INTERIOR CMU / GYPSUM BOARD WALL
SCALE: 1-1/2"=1'-0"

H6 HEAD AT (E) HOLLOW METAL DOOR FRAME AT EXTERIOR CMU / GYPSUM BOARD WALL
SCALE: 1-1/2"=1'-0"

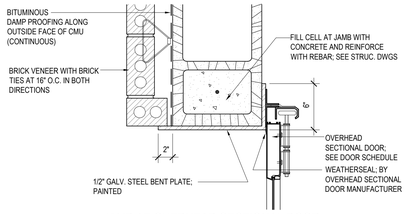
H7 HEAD AT OVERHEAD SECTIONAL DOOR ASSEMBLY AT EXTERIOR CMU WALL
SCALE: 1-1/2"=1'-0"



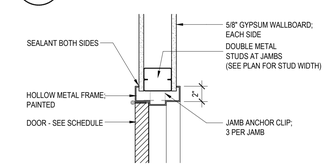
J4 JAMB AT HOLLOW METAL FRAME (NO DOOR) AT INTERIOR CMU / GYPSUM BOARD WALL
SCALE: 1-1/2"=1'-0"



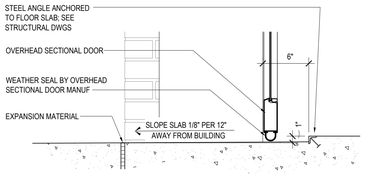
J6 JAMB AT (E) HOLLOW METAL DOOR FRAME AT EXTERIOR CMU / GYPSUM BOARD WALL
SCALE: 1-1/2"=1'-0"



J7 JAMB AT OVERHEAD SECTIONAL DOOR ASSEMBLY AT EXTERIOR CMU WALL
SCALE: 1-1/2"=1'-0"



H5 J5 HEAD / JAMB AT HOLLOW METAL DOOR FRAME AT INTERIOR WALL
SCALE: 1-1/2"=1'-0"

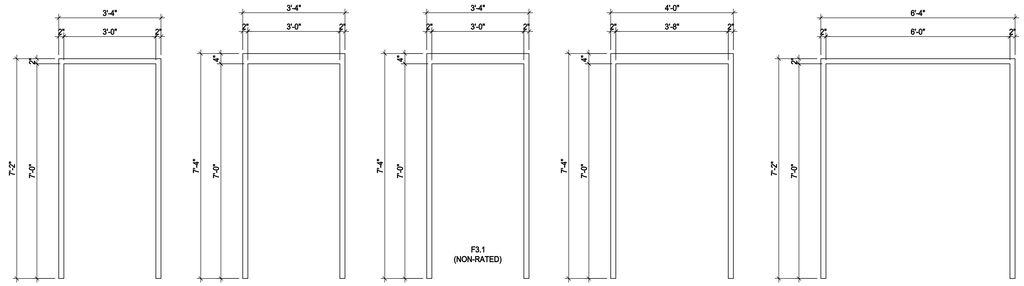


S7 SILL AT OVERHEAD SECTIONAL DOOR ASSEMBLY AT EXTERIOR CMU WALL
SCALE: 1-1/2"=1'-0"

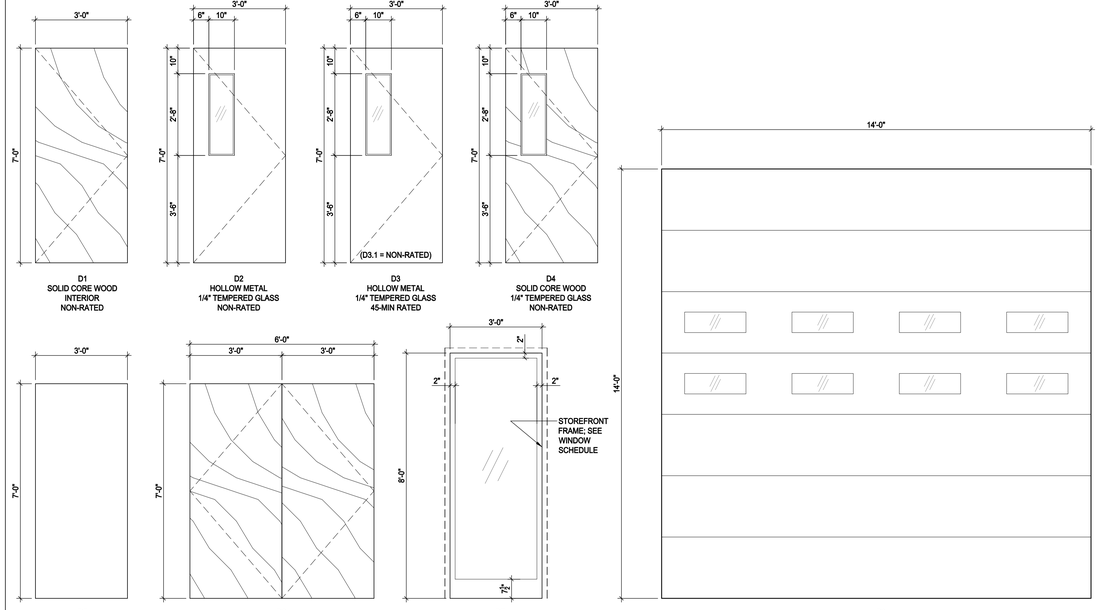
H1 DOOR DETAILS
A-501 SCALE: 1-1/2" = 1'-0"

DOOR SCHEDULE **SEE SPECIFICATIONS FOR DOOR HARDWARE SCHEDULE

DOOR NO.	DOOR TYPE	MATERIAL	RATING	DOOR			FRAME MATERIAL	FRAME TYPE	DETAILS			HDWRE SET	REMARKS
				WIDTH	HEIGHT	THICK.			HEAD	JAMB	SILL		
001	D4	SCWD		3'-0"	7'-0"	1-3/4"	HM	F3.1	H3	H3	S1	1	
002.1	D6	SCWD		6'-0"	7'-0"	1-3/4"	HM	F5	H5	J5	-	2	
005	-	-		-	-	-	-	-	H6	J6	-	3	EXISTING HM DOOR & FRAME TO REMAIN; NEW PAINT
006.1	D1	SCWD		3'-0"	7'-0"	1-3/4"	HM	F1	H5	J5	-	4	
006.2	D1	SCWD		3'-0"	7'-0"	1-3/4"	HM	F1	H5	J5	-	5	
008	-	-		-	-	-	HM	F4	H4	J4	-	-	HM FRAMED OPENING (NO DOOR); GROUT FRAME SOLID
009	D1	SCWD		3'-0"	7'-0"	1-3/4"	HM	F1	H5	J5	-	7	
010	D1	SCWD		3'-0"	7'-0"	1-3/4"	HM	F1	H5	J5	-	7	
011	D1	SCWD		3'-0"	7'-0"	1-3/4"	HM	F1	H5	J5	-	7	
012	D1	SCWD		3'-0"	7'-0"	1-3/4"	HM	F1	H5	J5	-	7	
013	-	-		-	-	-	HM	F4	H4	J4	-	-	HM FRAMED OPENING (NO DOOR); GROUT FRAME SOLID
014	D1	SCWD		3'-0"	7'-0"	1-3/4"	HM	F1	H5	J5	-	8	
015	D4	SCWD		3'-0"	7'-0"	1-3/4"	HM	F1	H5	J5	-	9	
016	D4	SCWD		3'-0"	7'-0"	1-3/4"	HM	F1	H5	J5	-	9	
100	D7	ALUM STFRNT		3'-0"	7'-0"	2"	ALUM.	**	**	**	**	10	**SEE WINDOW TYPES FOR ALUM STOREFRONT
101	D3	HM	45-MIN	3'-0"	7'-0"	2"	HM	F2	H2	J2	S1	11	
101.1	D9	STEEL		14'-0"	14'-0"	2"	-	-	H7	J7	S7	-	SECTIONAL DOOR
101.2	D9	STEEL		14'-0"	14'-0"	2"	-	-	H7	J7	S7	-	SECTIONAL DOOR
101.3	D5	HM		3'-0"	7'-0"	2"	HM	F3	H1	J1	S2	12	
102	D2	HM		3'-0"	7'-0"	2"	HM	F3	H1	J1	S1	8	
103	D5	HM		3'-0"	7'-0"	2"	HM	F3	H1	J1	S1	13	
104	D5	HM		3'-0"	7'-0"	2"	HM	F3	H1	J1	S1	13	
106	D5	HM		3'-0"	7'-0"	2"	HM	F3	H1	J1	S2	12	
107	D5	HM		3'-0"	7'-0"	2"	HM	F3	H1	J1	S2	12	



D7 FRAME TYPES *EXTERIOR DOORS SHOWN FROM THE EXTERIOR SIDE FACE
A-501 SCALE: 1/2" = 1'-0"



H7 DOOR TYPES *EXTERIOR DOORS SHOWN FROM THE EXTERIOR SIDE FACE
A-501 SCALE: 1/2" = 1'-0"

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Doyle Architecture, LLC Conway, SC No. 10150 REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA PAUL D. DOYLE, JR. 7389 REGISTERED ARCHITECT

Additions & Renovations to:
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For:
HORRY COUNTY

PROJECT NO: 22-136

DATE: Dec 31, 2025
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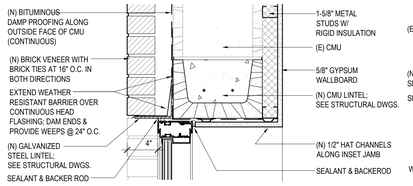
REVISIONS:

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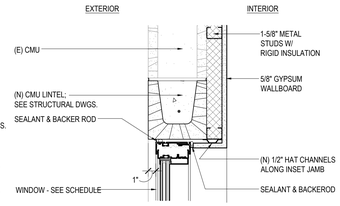
DOOR SCHEDULE, TYPES & DETAILS

SHEET:

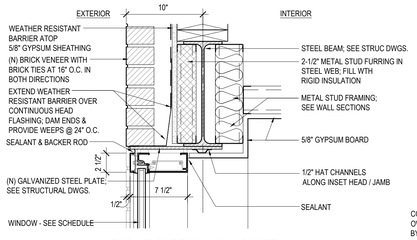
A-501



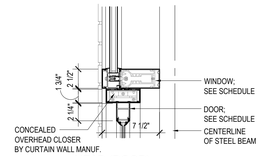
H1 HEAD AT ALUMINUM WINDOW AT EXTERIOR CMU & BRICK WALL
SCALE: 1-1/2"=1'-0"



H2 HEAD AT ALUMINUM WINDOW AT (E) EXTERIOR CMU WALL
SCALE: 1-1/2"=1'-0"

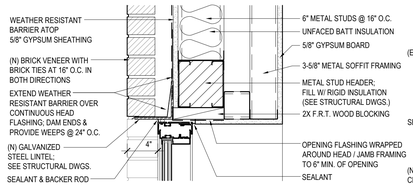


H3 HEAD AT CURTAIN WALL SYSTEM AT EXTERIOR METAL STUD & BRICK
SCALE: 1-1/2"=1'-0"

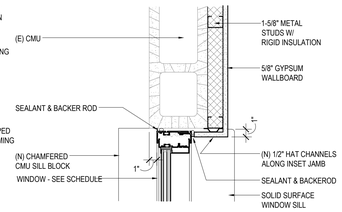


H3a HEAD (DOOR) AT CURTAIN WALL SYSTEM
SCALE: 1-1/2"=1'-0"

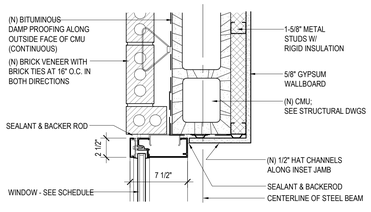
WINDOW NO.	WINDOW TYPE	MATERIAL	WINDOW			DETAILS			REMARKS
			WIDTH	HEIGHT	THICK.	HEAD	JAMB	SILL	
W1	A	ALUM STRFRT	3'-4"	6'-0"	4-1/2"	H1	J1	S1	
W2	A	ALUM STRFRT	3'-4"	6'-0"	4-1/2"	H1	J1	S1	
W3	B	ALUM STRFRT	2'-8"	8'-0"	4-1/2"	H1a	J1 / J1a	S1a	
W4	C	ALUM STRFRT	5'-4"	8'-0"	4-1/2"	H1a	J1 / J1a	S1a	
W5	B	ALUM STRFRT	2'-8"	8'-0"	4-1/2"	H1a	J1 / J1a	S1a	
W6	C	ALUM STRFRT	5'-4"	8'-0"	4-1/2"	H1a	J1 / J1a	S1a	
W7	D	CURTAIN WALL (DOOR)	14' 7-1/2"	10'-0"	7-1/2"	H3 (H3a)	J3 / J4 (J3a)	S3 (S3a)	
W8	E	CURTAIN WALL	6' 3-1/4"	10'-0"	7-1/2"	H3	* / J4	S3	*SEE PLAN DETAILS FOR ADDITIONAL JAMB INFO
W9	A.1	ALUM STRFRT	3'-4"	5'-8"	4-1/2"	H2	J2	S2	OPERABLE WINDOW



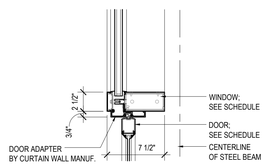
H1a HEAD AT ALUMINUM WINDOW AT EXTERIOR METAL STUD & BRICK INFILL
SCALE: 1-1/2"=1'-0"



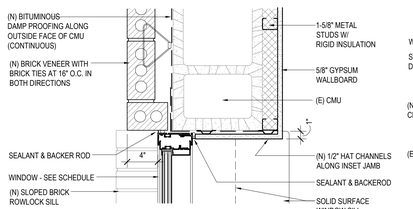
J2 JAMB AT ALUMINUM WINDOW AT (E) EXTERIOR CMU WALL
SCALE: 1-1/2"=1'-0"



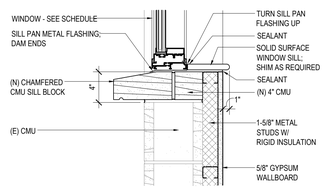
J3 JAMB AT CURTAIN WALL SYSTEM AT EXTERIOR METAL STUD & BRICK
SCALE: 1-1/2"=1'-0"



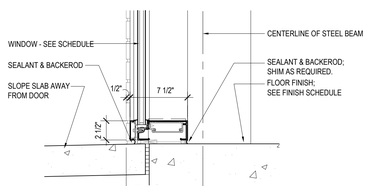
J3a JAMB (DOOR) AT CURTAIN WALL SYSTEM
SCALE: 1-1/2"=1'-0"



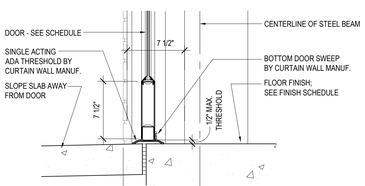
J1 JAMB AT ALUMINUM WINDOW AT EXTERIOR CMU & BRICK WALL
SCALE: 1-1/2"=1'-0"



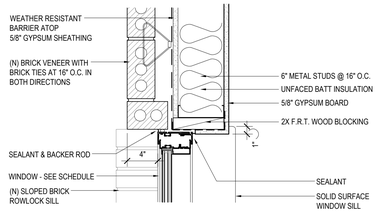
S2 SILL AT ALUMINUM WINDOW AT (E) EXTERIOR CMU WALL
SCALE: 1-1/2"=1'-0"



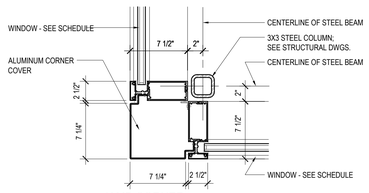
S3 SILL AT CURTAIN WALL SYSTEM AT EXTERIOR METAL STUD & BRICK
SCALE: 1-1/2"=1'-0"



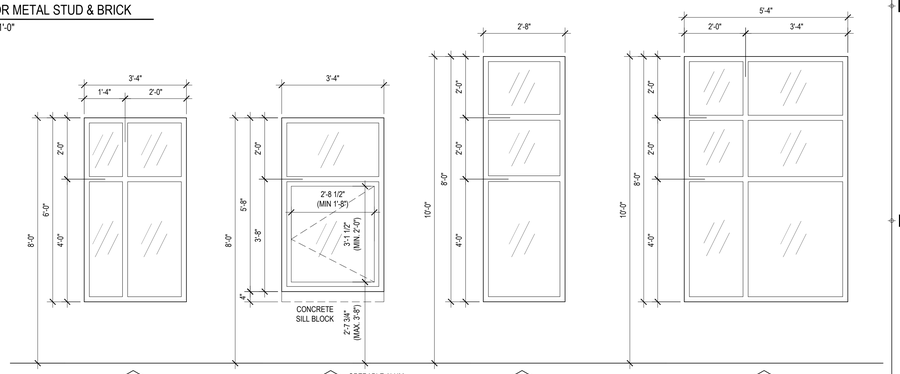
S3a SILL (DOOR) AT CURTAIN WALL SYSTEM AT EXTERIOR METAL STUD & BRICK
SCALE: 1-1/2"=1'-0"

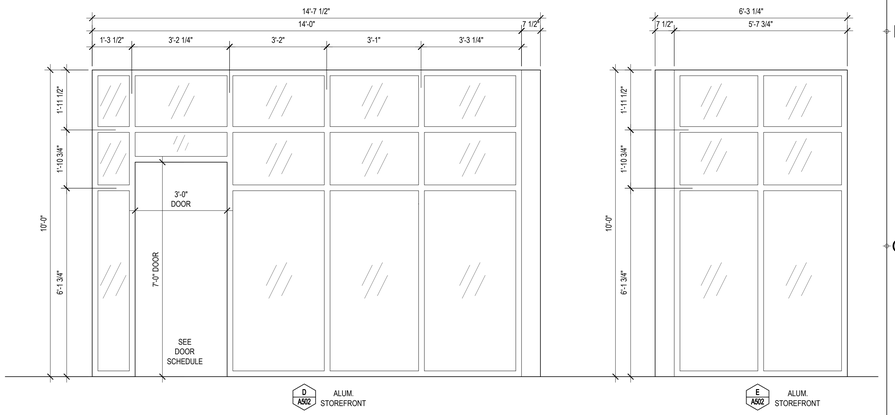


J1a JAMB AT ALUMINUM WINDOW AT EXTERIOR METAL STUD & BRICK INFILL
SCALE: 1-1/2"=1'-0"



J4 JAMB CORNER AT CURTAIN WALL SYSTEM
SCALE: 1-1/2"=1'-0"





S1 SILL AT ALUMINUM WINDOW AT EXTERIOR CMU & BRICK WALL
SCALE: 1-1/2"=1'-0"

S1a SILL AT ALUMINUM WINDOW AT EXTERIOR METAL STUD & BRICK INFILL
SCALE: 1-1/2"=1'-0"

H1 WINDOW DETAILS — A-502 — SCALE: 1-1/2" = 1'-0"

H8 WINDOW TYPES *EXTERIOR WINDOWS SHOWN FROM THE EXTERIOR SIDE FACE — A-502 — SCALE: 1/2" = 1'-0"

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STATE OF SOUTH CAROLINA — Doyle Architecture, LLC Conway, SC No. 10150 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — PAUL D. DOYLE — 17389 — REGISTERED ARCHITECT

Additions & Renovations to:
GORETOWN FIRE STATION
Loris, South Carolina
For:
HORRY COUNTY

PROJECT NO: 22-136

DATE: Dec 31, 2025
Construction Documents

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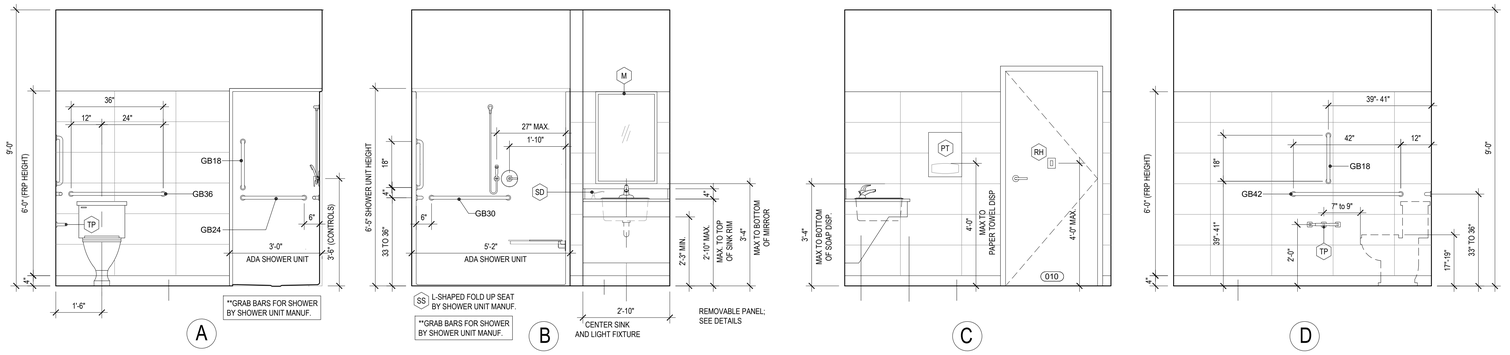
REVISIONS:

TITLE:

WINDOW SCHEDULE, TYPES & DETAILS

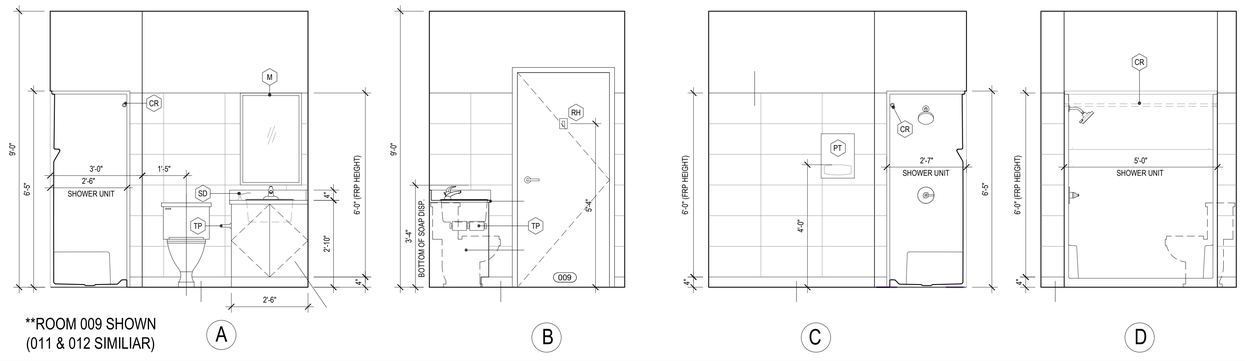
SHEET:

A-502



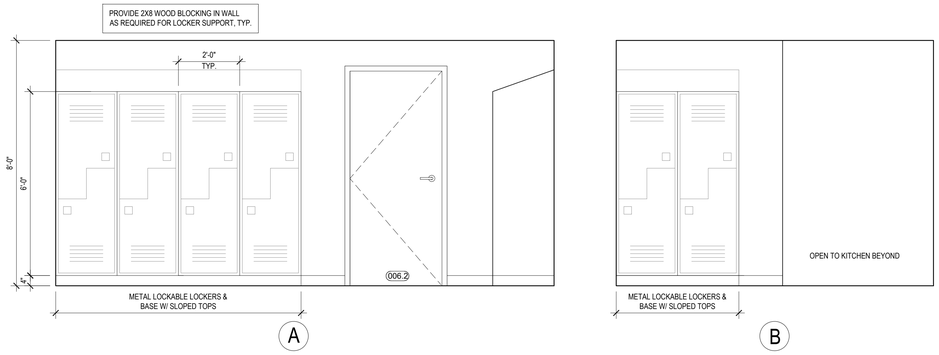
B1 010 - ADA TOILET + SHOWER INTERIOR ELEVATIONS

A-701 SCALE: 1/2" = 1'-0"



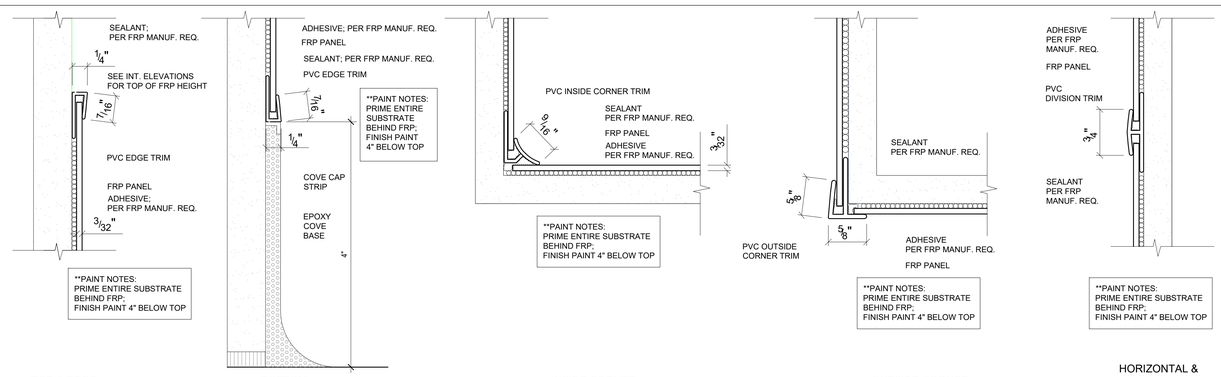
D1 TYP. TOILET + SHOWER INTERIOR ELEVATIONS (NON-ADA)

A-701 SCALE: 1/2" = 1'-0"



F1 LOCKER INTERIOR ELEVATIONS

A-701 SCALE: 1/2" = 1'-0"

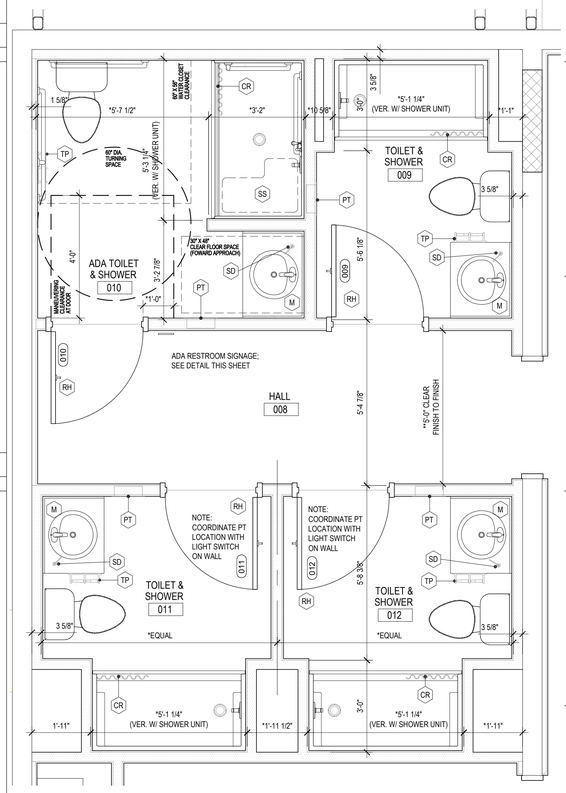


H1 FRP DETAILS

A-701 SCALE: N.T.S.

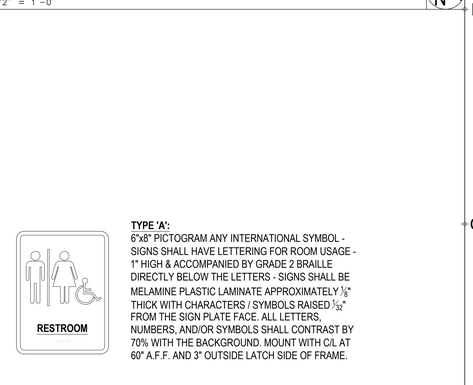
BASIS OF DESIGN: BRADLEY - SEE SPECIFICATIONS FOR FURTHER INFORMATION					
MARK	DESCRIPTION	# REQ'D	NOTES	MODEL #	
PT	PAPER TOWEL DISPENSER	4			OFCI
SD	SOAP DISPENSER	4			OFCI
M	MIRROR	4	24" WIDE X 36" HEIGHT; BOTTOM EDGE AT 40" A.F.F.	BRADLEY #780-2436-2	
RH	ROBE HOOK	4	RMS. 009, 011, 012 - MOUNT AT 60" A.F.F. RMS. 010 - MOUNT AT 48" A.F.F.	BRADLEY #9114	
TP	TOILET PAPER HOLDER	4			OFCI
CR	SHOWER ROD / CURTAIN	4	WITH HOOKS (#9536); MOUNT AT 72" A.F.F.	BRADLEY #9538 / #9533	
GB	GRAB BARS	-	**	BRADLEY 812 SERIES	**SEE INT. ELEVS FOR LENGTHS
SS	SHOWER SEAT	1	ADA COMPLIANT FOLD-UP SEAT MOUNT AT 17-19" A.F.F.	**	**PROVIDE WITH ACRYLIC SHOWER UNIT
MB	SHELF / MOP HOLDER	1	2 HOOKS / 3 HOLDERS	BRADLEY #9983	MOUNTED ON WALL IN LAUNDRY 106 ABOVE FLOOR SINK

NOTES:
1. CONTRACTOR TO PROVIDE WOOD BLOCKING IN WALLS FOR INSTALLATION OF TOILET ACCESSORIES.
2. ADA ACCESSIBLE SHOWER ARM ASSEMBLY - SEE PLUMBING SWGS.
3. INSTALL ADA ACCESSIBLE ACCESSORIES IN ACCORDANCE WITH ICC/ANSI 117.1
4. WASTE RECEPTACLES BY OWNER



F10 ENLARGED TOILET ROOM PLANS

A-701 SCALE: 1/2" = 1'-0"



TYPE 'A':
6"x8" PICTOGRAM ANY INTERNATIONAL SYMBOL - SIGNS SHALL HAVE LETTERING FOR ROOM USAGE - 1" HIGH & ACCOMPANIED BY GRADE 2 BRAILLE DIRECTLY BELOW THE LETTERS - SIGNS SHALL BE MELAMINE PLASTIC LAMINATE APPROXIMATELY 1/8" THICK WITH CHARACTERS / SYMBOLS RAISED 1/32" FROM THE SIGN PLATE FACE. ALL LETTERS, NUMBERS, AND/OR SYMBOLS SHALL CONTRAST BY 70% WITH THE BACKGROUND. MOUNT WITH C/L AT 60" A.F.F. AND 3" OUTSIDE LATCH SIDE OF FRAME.

H10 TYP. ADA RESTROOM SIGNAGE

A-701 SCALE: N.T.S.

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Doyle Architecture, LLC Conway, SC No. 10150 REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA PAUL D. DOYLE, JR. 17389 REGISTERED ARCHITECT

Additions & Renovations to:
GORETOWN FIRE STATION
Loris, South Carolina
For:
HORRY COUNTY

PROJECT NO: 22-136

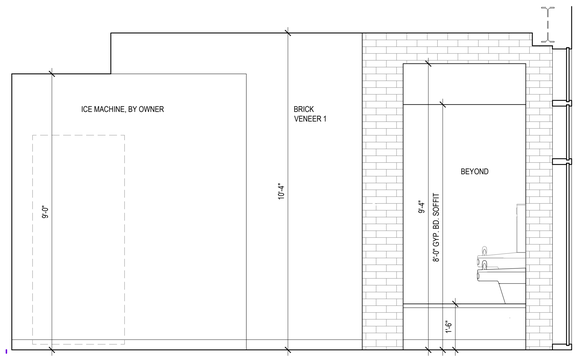
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Construction Documents

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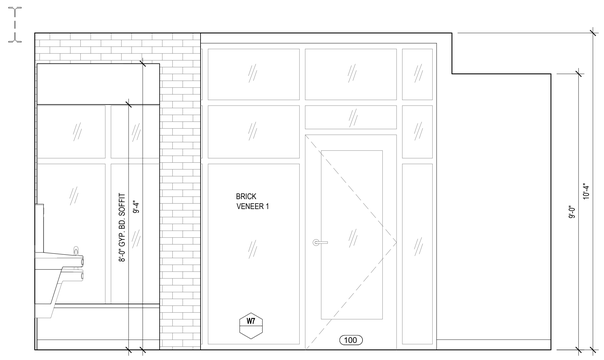
REVISIONS:

TITLE:
ENLARGED TOILET ROOM PLANS & ELEVATIONS

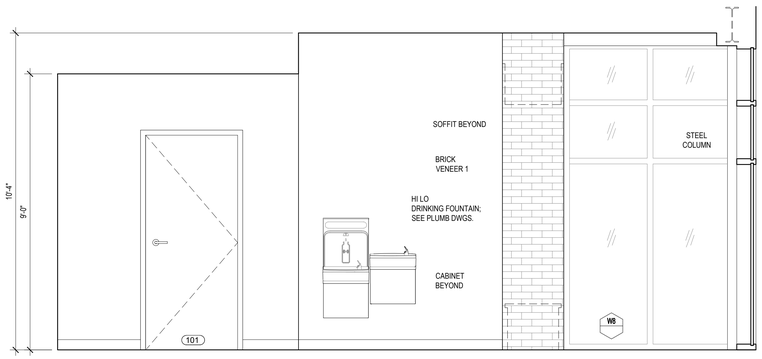
SHEET:
A-701



A



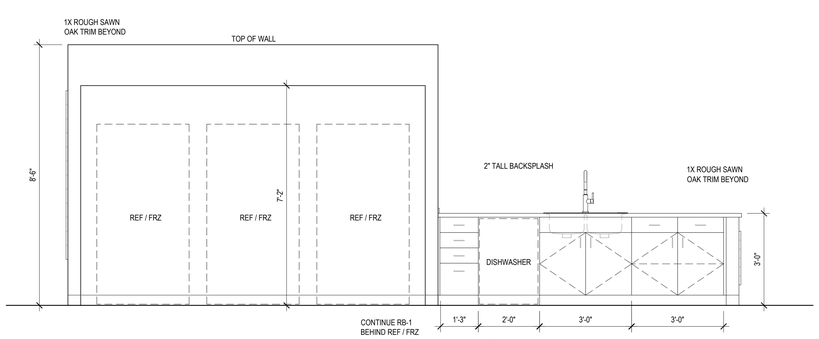
B



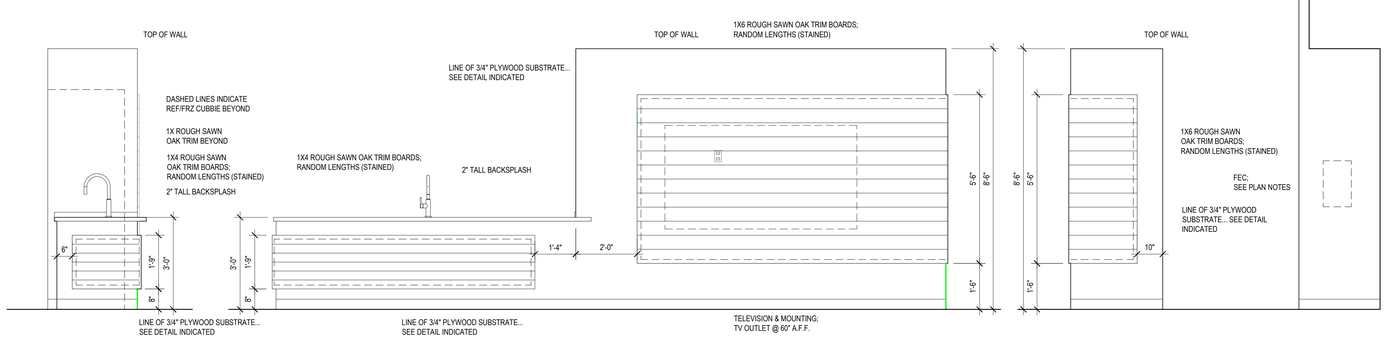
C

C1 ENTRANCE VESTIBULE INTERIOR ELEVATIONS

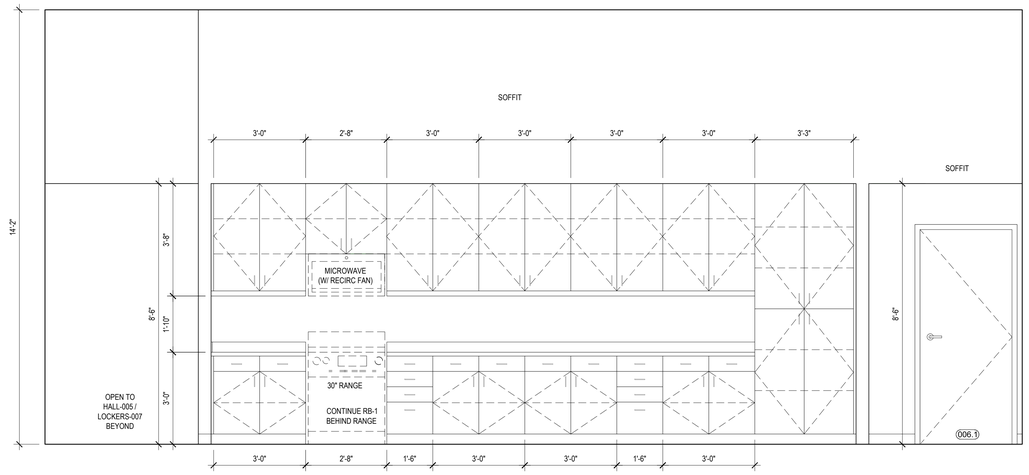
A-702 SCALE: 1/2" = 1'-0"



B



C D E



A

H1 KITCHEN INTERIOR ELEVATIONS

A-702 SCALE: 1/2" = 1'-0"

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Doyle Architecture, LLC Conway, SC No. 10150 REGISTERED ARCHITECTS — STATE OF SOUTH CAROLINA

PAUL D. DOYLE, JR. — STATE OF SOUTH CAROLINA — 17389 — REGISTERED ARCHITECT

Additions & Renovations to:
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Loris, South Carolina
For:
HORRY COUNTY

PROJECT NO: 22-136

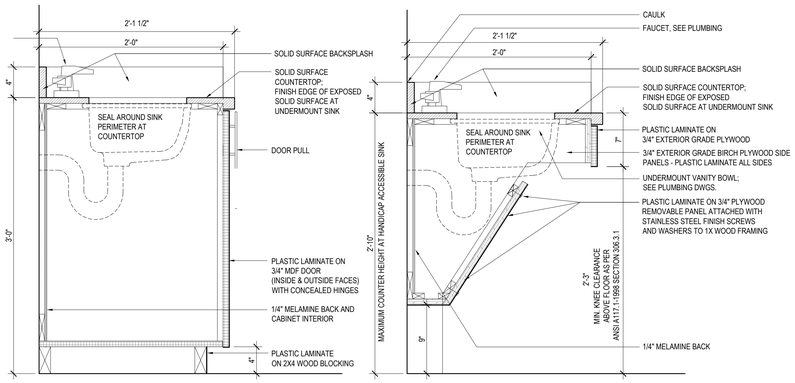
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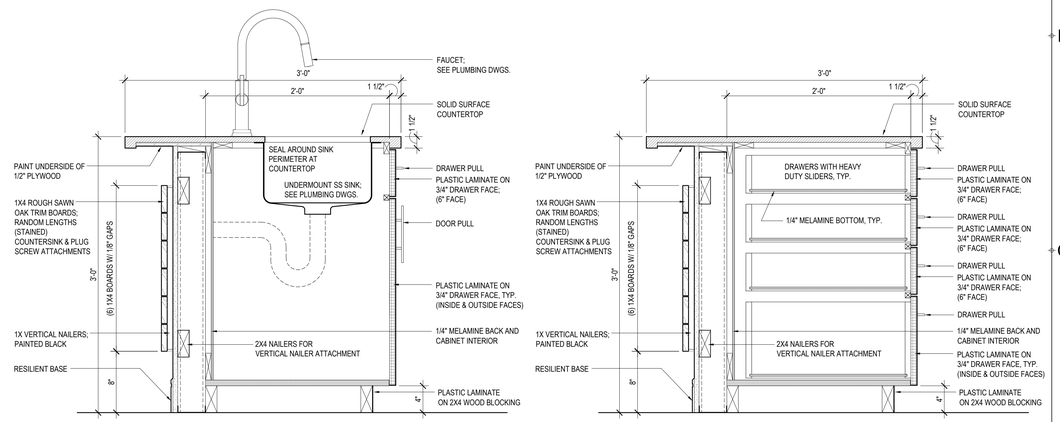
REVISIONS:

TITLE:
KITCHEN & VESTIBULE ELEVATIONS

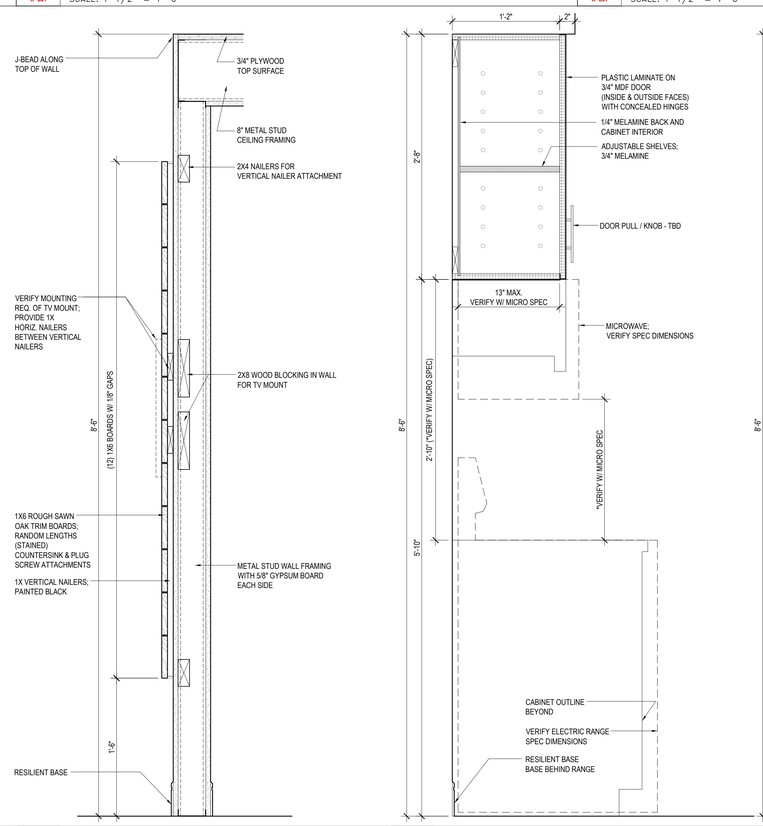
SHEET:
A-702



D3	CABINET @ RESTROOM, TYP.	D5	CABINET @ ADA RESTROOM
A-801	SCALE: 1-1/2" = 1'-0"	A-801	SCALE: 1-1/2" = 1'-0"



D8	CABINET @ KITCHEN PENINSULA SINK	D11	CABINET @ KITCHEN PENINSULA DWRS
A-801	SCALE: 1-1/2" = 1'-0"	A-801	SCALE: 1-1/2" = 1'-0"



H5	CABINET @ LIVING RM TV MOUNT	H7	CABINET @ KITCHEN RANGE/MICRO	H9	CABINET @ KITCHEN, TYP.	H11	BASE CABINET @ KITCHEN DRAWERS
A-801	SCALE: 1-1/2" = 1'-0"	A-801	SCALE: 1-1/2" = 1'-0"	A-801	SCALE: 1-1/2" = 1'-0"	A-801	SCALE: 1-1/2" = 1'-0"

F11	UPPER CABINET @ KITCHEN ICE MACHINE
A-801	SCALE: 1-1/2" = 1'-0"

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STATE OF SOUTH CAROLINA — PAUL D. DOYLE, JR. — 7389 — REGISTERED ARCHITECT

Additions & Renovations to:
GORETOWN FIRE STATION
Loris, South Carolina
For:
HORRY COUNTY

PROJECT NO: 22-136

DATE: Dec 31, 2025
Construction Documents

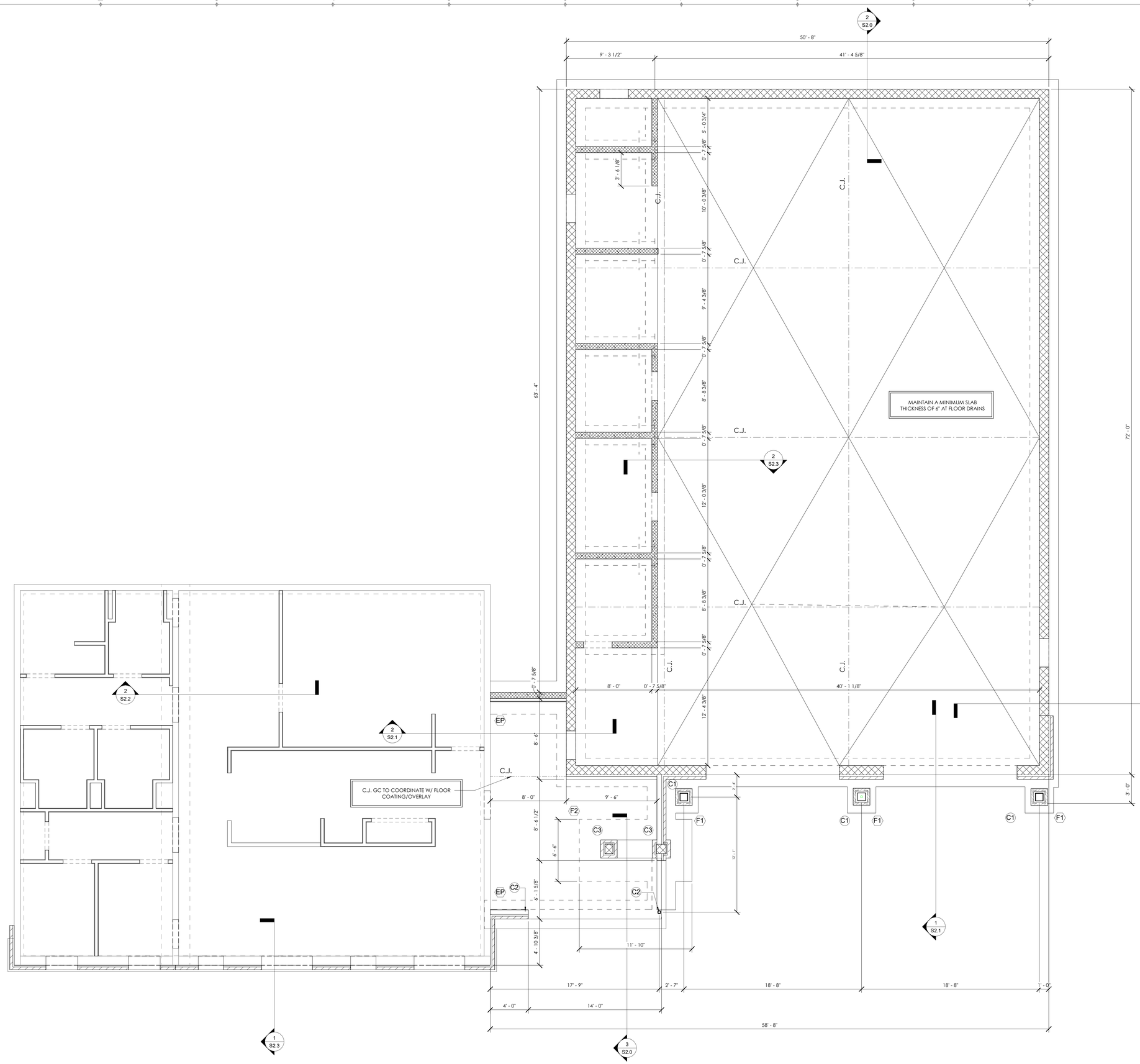
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REVISIONS:

TITLE:
ENLARGED CABINET DETAILS

SHEET:
A-801

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ORIGINAL PAGE SIZE



LEGEND

- INDICATES A 3'-0"W X 1'-4"D SPREAD FOOTING REINF. W/ (4)-#5 BARS CONTINUOUS.
- INDICATES A 2'-0"W X 1'-0"D INTERIOR THICKENED SLAB REINF. W/ (2)-#5 BARS (BOTTOM) CONTINUOUS U.N.O.
- INDICATES A NEW 8" CMU BLOCK WALL REINF. W/ #5 VERTICAL BARS @ 32"O.C.
- INDICATES A NEW 12" CMU BLOCK WALL REINF. W/ #5 BARS @ 24" O.C.
- SJ — INDICATES LOCATION OF CONCRETE SLAB CONTROL JOINT. REF. SHEET S3.0 DETAILS.
- CJ — INDICATES LOCATION OF CONCRETE SLAB SAW JOINT. REF. SHEET S3.0 DETAILS.
- F1 — INDICATES 3'-0 x 3'-0" x 1'-4" ISOLATED FOOTING REINF. W/ #5 BARS AT 10" O.C. E/W BOTTOM.
- F2 — INDICATES 11'-10 x 6'-6" x 1'-4" ISOLATED FOOTING REINF. W/ #5 BARS AT 10" O.C. E/W BOTTOM.
- C1 — INDICATES A HSS10x10x3/8" TUBE STEEL POST BEARING ON A 16" x 16"x 2'-0"D CONCRETE PEDESTAL
- C2 — INDICATES A HSS3-1/2x3-1/2x3/8" TUBE STEEL POST SEE SECTION FOR BASE PLATE SPECIFICATIONS
- C3 — INDICATES A 12"x12" CONCRETE PILASTER REINF. W/(8)-#4 VERTICAL BARS WITH #3 TIES AT 8" O.C. WITHIN 48" OF THE BASE OF THE COLUMN AND THEN INCREASES TO 12" VERTICAL TIE SPACING
- EP — INDICATES LOCATION OF FOUNDATION COLD JOINT/ INTERFACE. PLACE MIN. 48"L (3)-#5 EPOXY DOWELS EMBEDDED MIN. 16" INTO MAIN FOOTING. ROUGHEN INTERFACE, CLEAN, APPLY BONDING AGENT AND ENCAPSULATE LAPPED DOWELS INTO NEW CONCRETE.

6" THICK CONCRETE REINF. W/ 6x6-W1.4xW1.4(WELDED WIRE FABRIC
PLACE (2)- #5 BAR(S) AT ALL CORNER, END WALLS AND EA. SIDE OF OPENINGS CELLS AND GROUT CELLS SOLID
PROVIDE LADDER TIE REINFORCING @ 16" O.C. - VERTICAL

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NOT FOR CONSTRUCTION

Addition & Renovations to:
GORETOWN FIRE STATION
Loris, SC 29569
for:
HORRY COUNTY GOVERNMENT

PROJECT NO: 23-277

DATE: Date: 12/31/25

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REVISIONS:

TITLE:
FOUNDATION PLAN

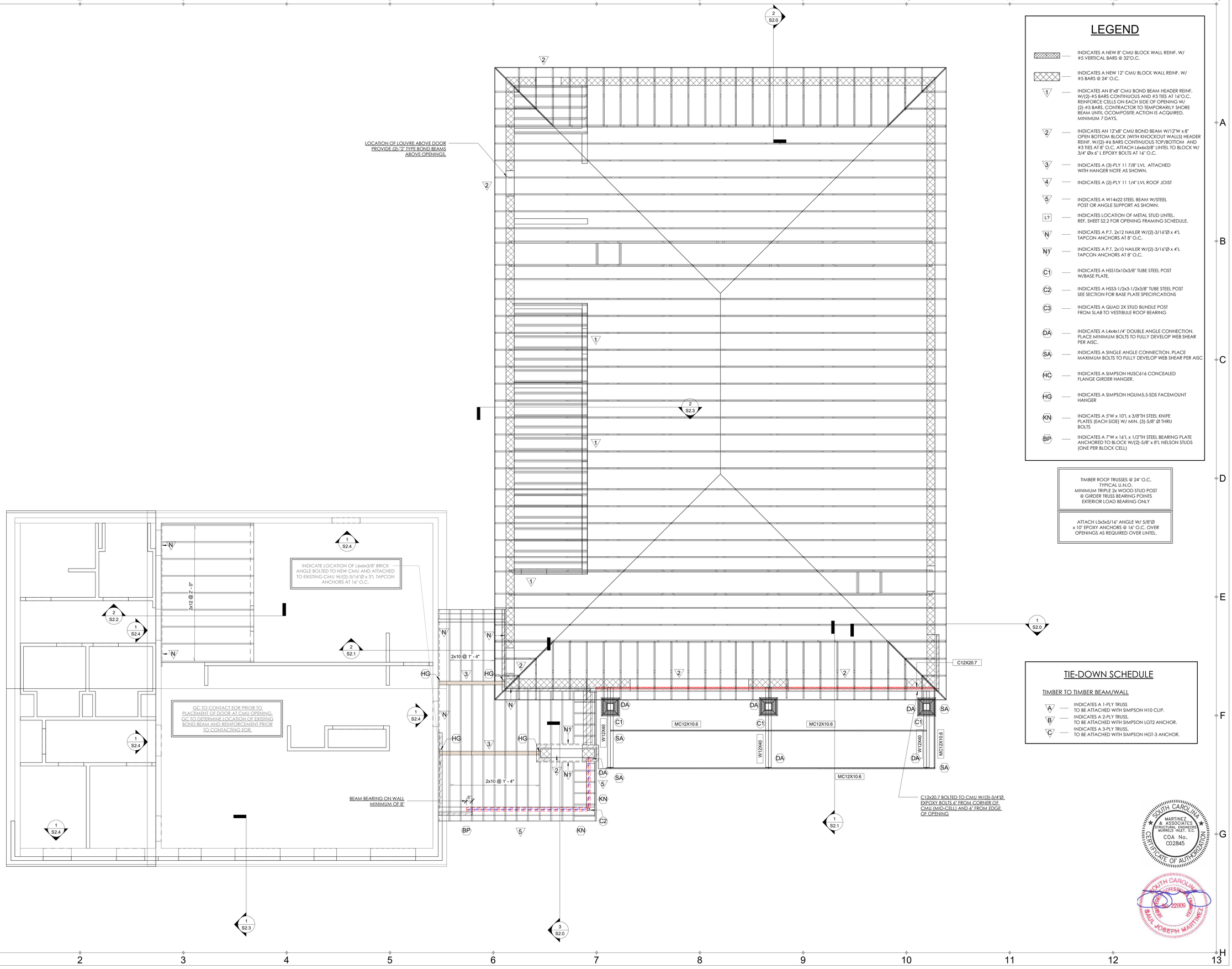
SHEET:
S1.0

SOUTH CAROLINA
MARTINEZ & ASSOCIATES
STRUCTURAL ENGINEERS
MURRELLS INLET, S.C.
COA No. C02845
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 22809
REGISTERED
JOSEPH MARTINEZ

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LEGEND

- INDICATES A NEW 8" CMU BLOCK WALL REINF. W/ #5 VERTICAL BARS @ 32"O.C.
- INDICATES A NEW 12" CMU BLOCK WALL REINF. W/ #5 BARS @ 24" O.C.
- 1 — INDICATES AN 8"x8" CMU BOND BEAM HEADER REINF. W/(2)-#5 BARS CONTINUOUS AND #3 TIES AT 16"O.C. REINFORCE CELLS ON EACH SIDE OF OPENING W/ (2)-#5 BARS. CONTRACTOR TO TEMPORARILY SHORE BEAM UNTIL OCOMPOSITE ACTION IS ACQUIRED. MINIMUM 7 DAYS.
- 2 — INDICATES AN 12"x8" CMU BOND BEAM W/12"W x 8" OPEN BOTTOM BLOCK (WITH KNOCKOUT WALLS) HEADER REINF. W/(2)-#6 BARS CONTINUOUS TOP/BOTTOM AND #3 TIES AT 8" O.C. ATTACH L6x6x3/8" LINTEL TO BLOCK W/ 3/4" Ø x 6" L EPOXY BOLTS AT 16" O.C.
- 3 — INDICATES A (3)-PLY 11 7/8" LVL ATTACHED WITH HANGER NOTE AS SHOWN.
- 4 — INDICATES A (2)-PLY 11 1/4" LVL ROOF JOIST
- 5 — INDICATES A W14x22 STEEL BEAM W/STEEL POST OR ANGLE SUPPORT AS SHOWN.
- L? — INDICATES LOCATION OF METAL STUD LINTEL. REF. SHEET S2.2 FOR OPENING FRAMING SCHEDULE.
- N — INDICATES A P.T. 2x12 NAILER W/(2)-3/16"Ø x 4"L TAPCON ANCHORS AT 8" O.C.
- N1 — INDICATES A P.T. 2x10 NAILER W/(2)-3/16"Ø x 4"L TAPCON ANCHORS AT 8" O.C.
- C1 — INDICATES A HSS10x10x3/8" TUBE STEEL POST W/BASE PLATE.
- C2 — INDICATES A HSS3-1/2x3-1/2x3/8" TUBE STEEL POST SEE SECTION FOR BASE PLATE SPECIFICATIONS
- C3 — INDICATES A QUAD 2X STUD BUNDLE POST FROM SLAB TO VESTIBULE ROOF BEARING
- DA — INDICATES A L4x4x1/4" DOUBLE ANGLE CONNECTION. PLACE MINIMUM BOLTS TO FULLY DEVELOP WEB SHEAR PER AISC.
- SA — INDICATES A SINGLE ANGLE CONNECTION. PLACE MAXIMUM BOLTS TO FULLY DEVELOP WEB SHEAR PER AISC
- HC — INDICATES A SIMPSON HUSC616 CONCEALED FLANGE GIRDER HANGER.
- HG — INDICATES A SIMPSON HGUM5.5-SDS FACEMOUNT HANGER
- KN — INDICATES A 5"W x 10"L x 3/8"TH STEEL KNIFE PLATES (EACH SIDE) W/ MIN. (3)-5/8" Ø THRU BOLTS
- BP — INDICATES A 7"W x 16"L x 1/2"TH STEEL BEARING PLATE ANCHORED TO BLOCK W/(2)-5/8" x 8"L NELSON STUDS (ONE PER BLOCK CELL)

TIMBER ROOF TRUSSES @ 24" O.C.
TYPICAL U.N.O.
MINIMUM TRIPLE 2x WOOD STUD POST @ GIRDER TRUSS BEARING POINTS EXTERIOR LOAD BEARING ONLY

ATTACH L5x5x5/16" ANGLE W/ 5/8"Ø x 10" EPOXY ANCHORS @ 16" O.C. OVER OPENINGS AS REQUIRED OVER LINTEL.

TIE-DOWN SCHEDULE

TIMBER TO TIMBER BEAM/WALL

- A — INDICATES A 1-PLY TRUSS. TO BE ATTACHED WITH SIMPSON H10 CLIP.
- B — INDICATES A 2-PLY TRUSS. TO BE ATTACHED WITH SIMPSON LGT2 ANCHOR.
- C — INDICATES A 3-PLY TRUSS. TO BE ATTACHED WITH SIMPSON HGT-3 ANCHOR.

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SAUL JOSEPH MARTINEZ

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CONWAY, SC 29526
843.455.6879

Addition & Renovations to:
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Loris, SC 29569
for:
HORRY COUNTY GOVERNMENT

PROJECT NO: 23-277

DATE: Date: 12/31/25

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REVISIONS:

TITLE: FRAMING PLAN

SHEET: **S1.1**

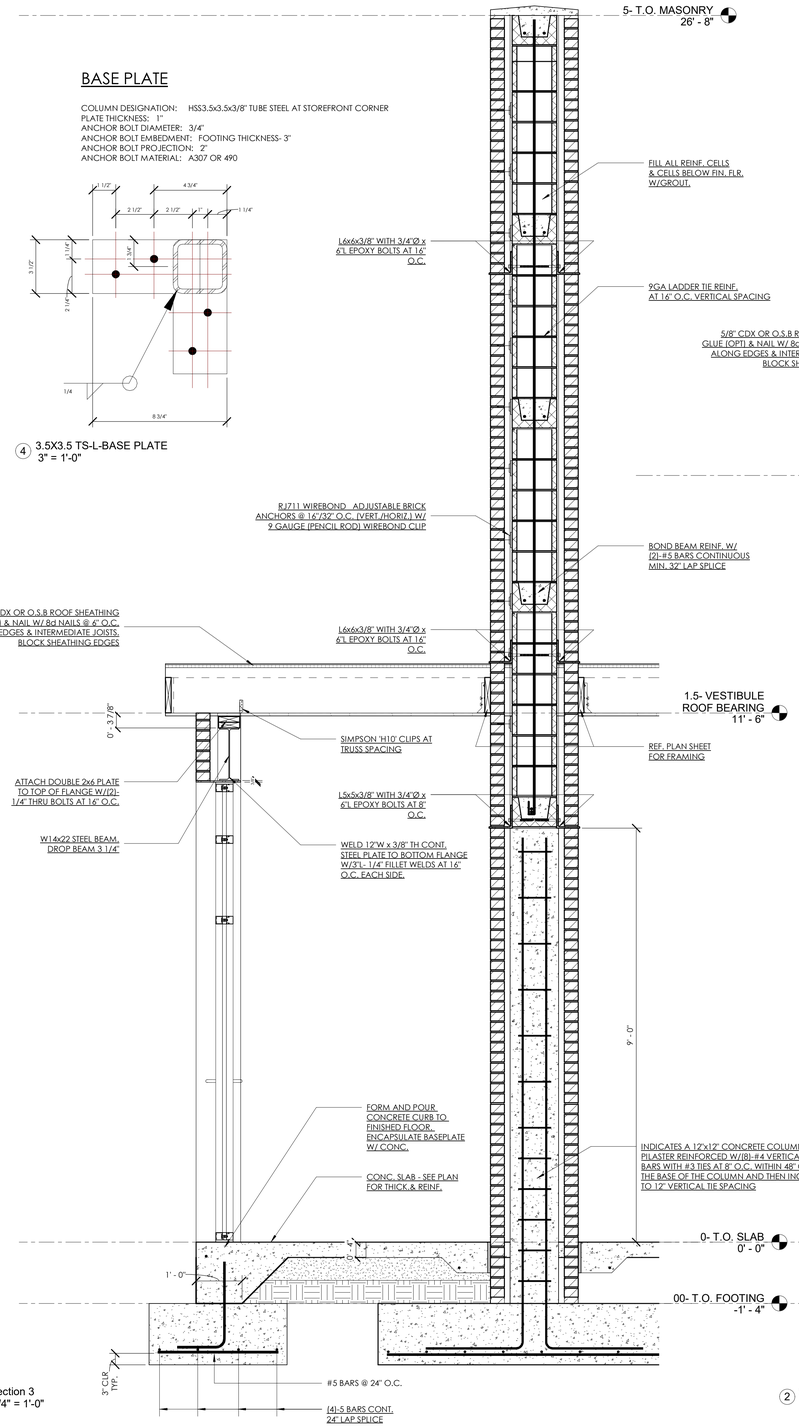
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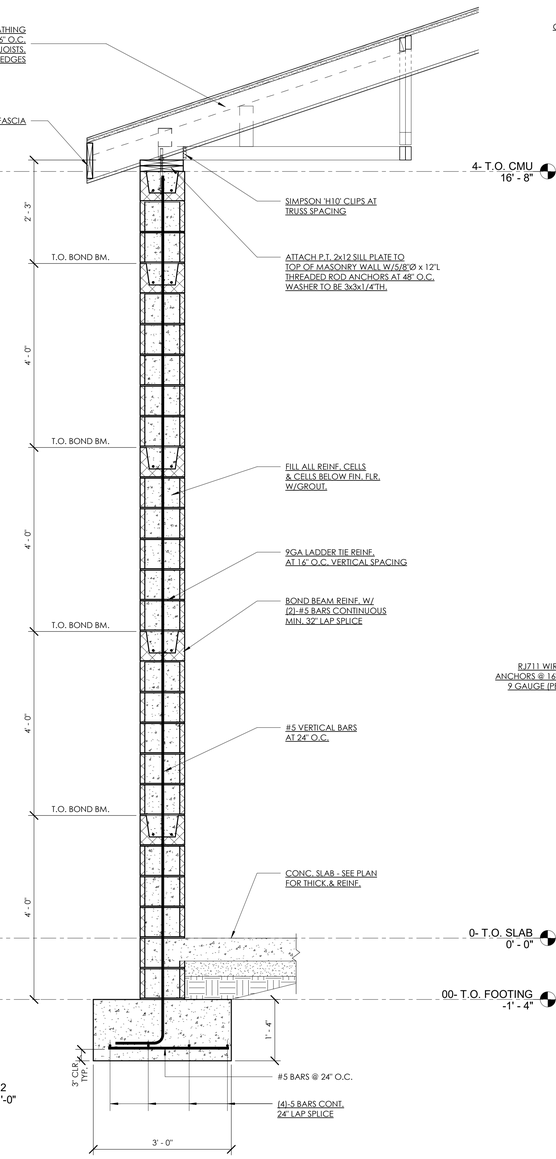
BASE PLATE

COLUMN DESIGNATION: HSS3.5x3.5x3/8" TUBE STEEL AT STOREFRONT CORNER
PLATE THICKNESS: 1"
ANCHOR BOLT DIAMETER: 3/4"
ANCHOR BOLT EMBEDMENT: FOOTING THICKNESS- 3"
ANCHOR BOLT PROJECTION: 2"
ANCHOR BOLT MATERIAL: A307 OR 490

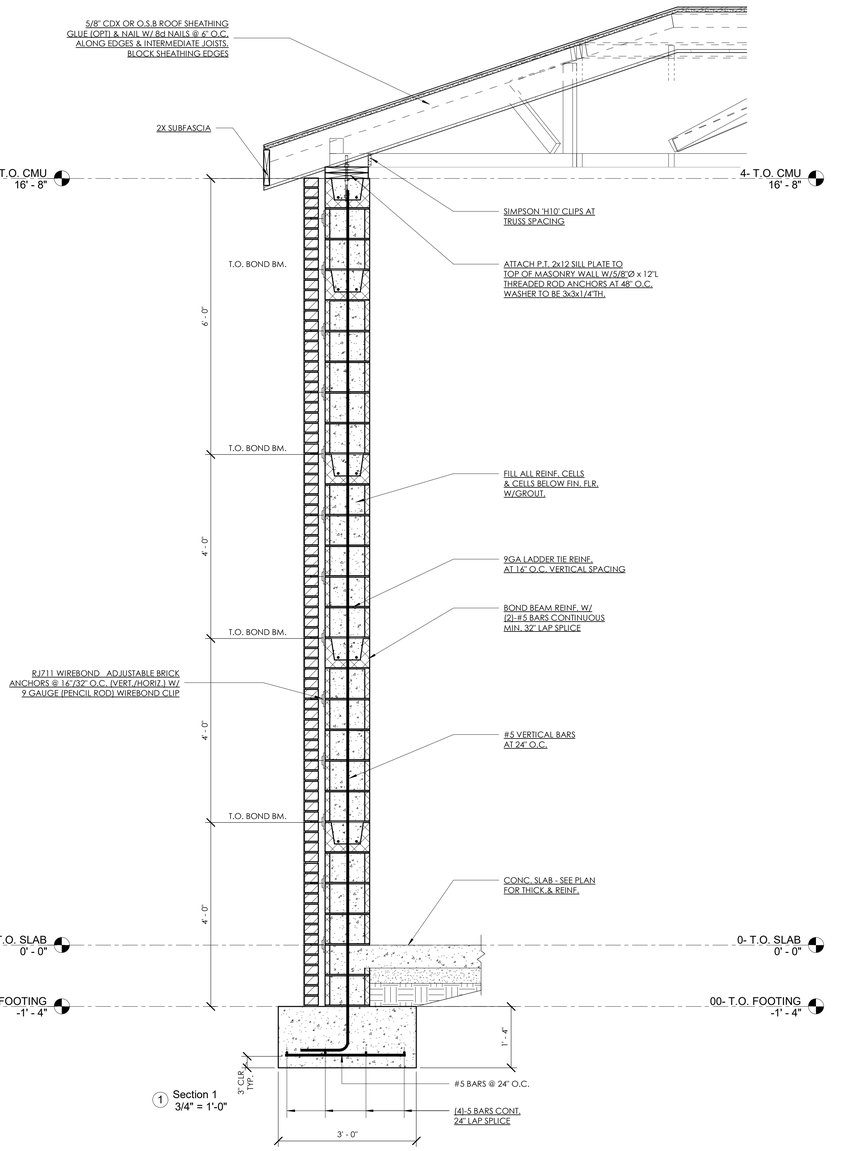
④ 3.5X3.5 TS-L-BASE PLATE
3" = 1'-0"



③ Section 3
3/4" = 1'-0"



② Section 2
3/4" = 1'-0"



① Section 1
3/4" = 1'-0"

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SOUTH CAROLINA
MARTINEZ & ASSOCIATES STRUCTURAL ENGINEERS MURRELLS INLET, S.C.
COA No. C02845
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 22809 SAUL JOSEPH MARTINEZ

DOYLE ARCHITECTURE LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

Addition & Renovations to:
GORETOWN FIRE STATION
Loris, SC 29569
for:
HORRY COUNTY GOVERNMENT

PROJECT NO: 23-277

DATE: Date: 12/31/25

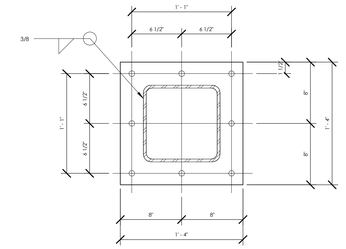
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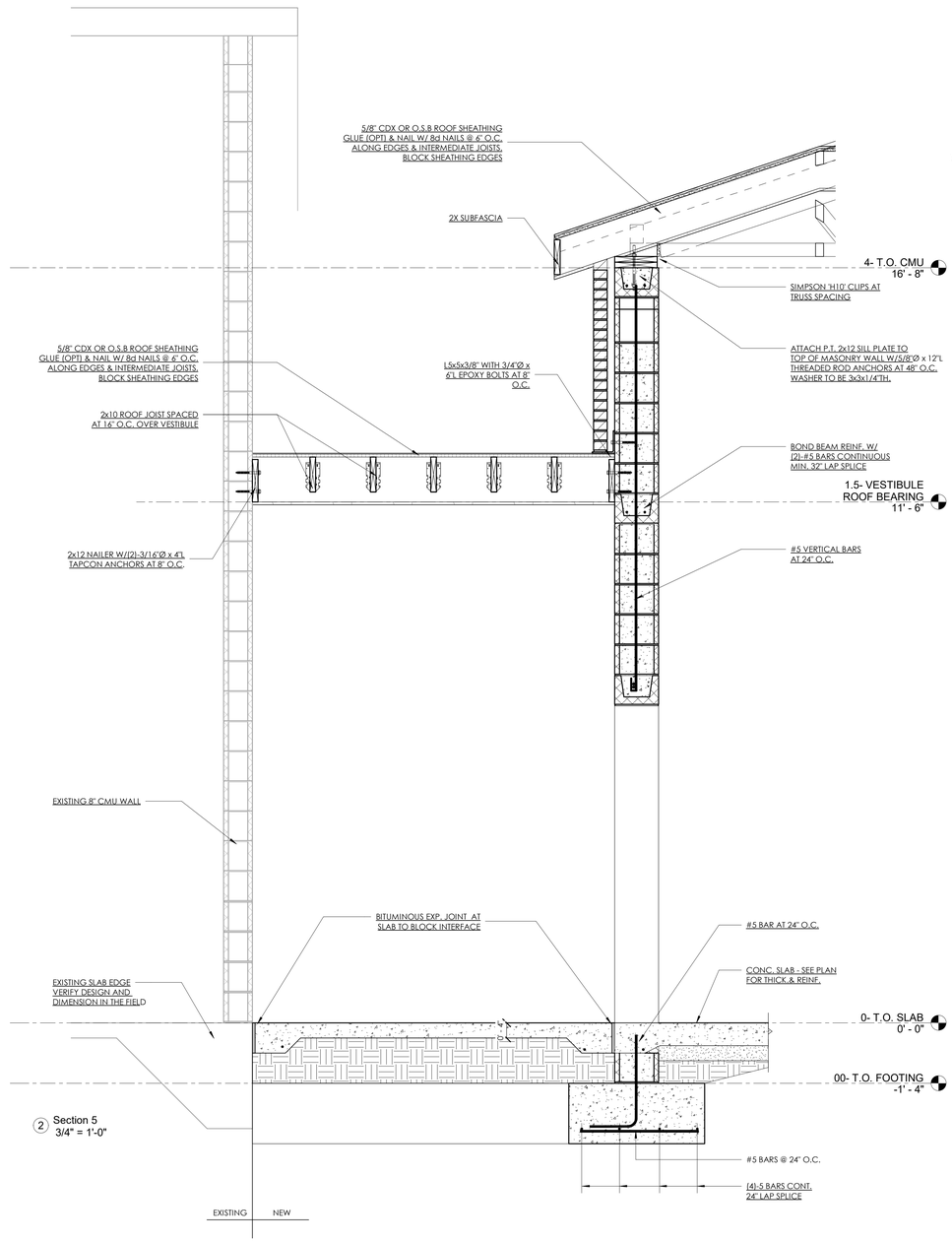
SHEET:
S2.0

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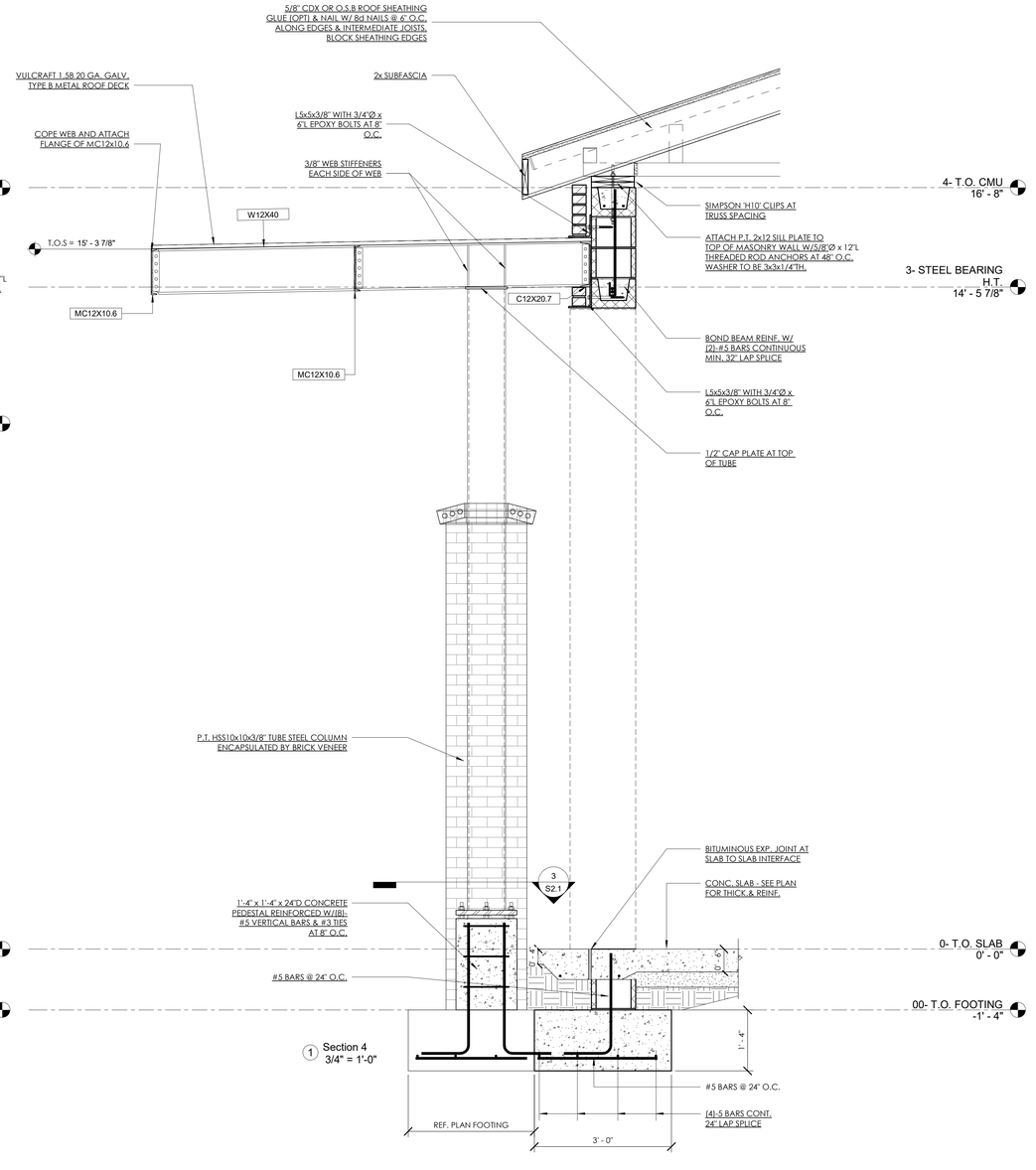


BASE PLATE

COLUMN DESIGNATION: HSS10x10x3/8"
PLATE THICKNESS: 1 1/4"
ANCHOR BOLT DIAMETER: 1"(LEVELING NUTS BELOW)
ANCHOR BOLT EMBEDMENT: FOOTING THICKNESS- 3"
ANCHOR BOLT PROJECTION: 3"
ANCHOR BOLT MATERIAL: A307 OR 490
2" GROUT REQUIRED BELOW BASE PLATE



2 Section 5
3/4" = 1'-0"



1 Section 4
3/4" = 1'-0"

SOUTH CAROLINA
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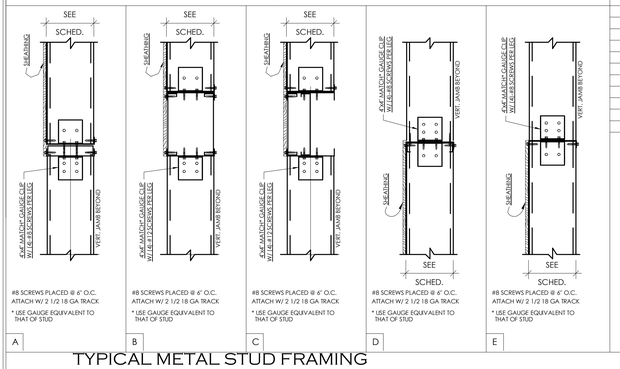
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BUILDING DOOR/WINDOW OPENINGS SCHEDULE

MARK	JAMB DESCRIPTION	OPENING HEIGHT	SEE TABLE	HEADER DESCRIPTION	OPENING WIDTH	SEE TABLE	SILL DESCRIPTION	OPENING WIDTH	SEE TABLE
L1	(2) 6"-KING(s) / (1)-6"-JACK(s) 16 GA	12'-0"+-	DIAGRAM G	(2) 10" - 16 GAUGE METAL STUD W/ TRACKS	REF. ARCH	DIAGRAM B	(1) 6" - 16 GAUGE METAL STUD W/ TRACKS	REF. ARCH	DIAGRAM E
L2	(3) 6"-KING(s) / (2)-6"-JACK(s) 16 GA	5'-6"+-	DIAGRAM G	(2) 12" - 16 GAUGE METAL STUD W/ TRACKS	**REF. ARCH**	DIAGRAM B	(1) 6" - 16 GAUGE METAL STUD W/ TRACKS	REF. ARCH	DIAGRAM D
L3	(4) 6"-KING(s) / (3)-6"-JACK(s) 16 GA	2'-6"+-	DIAGRAM G	(3) 12"- 14 GAUGE METAL STUD W/ TRACKS	REF. ARCH	DIAGRAM C	(1) 6" - 16 GAUGE METAL STUD W/ TRACKS	REF. ARCH	DIAGRAM D
L4	(2) 6" -KING(s) / (1)-6"-JACK(s) 16 GA	7'-0"+-	DIAGRAM H	(2) 8" - 16 GAUGE METAL STUD W/ TRACKS	REF. ARCH	DIAGRAM D	N/A	REF. ARCH	N/A
L5	(3) 6"-KING(s) / (2)-6"-JACK(s) 16 GA	8'-0"+-	DIAGRAM H	(2) 12" - 14 GAUGE METAL STUD W/ TRACKS	REF. ARCH	DIAGRAM B	N/A	REF. ARCH	DIAGRAM D

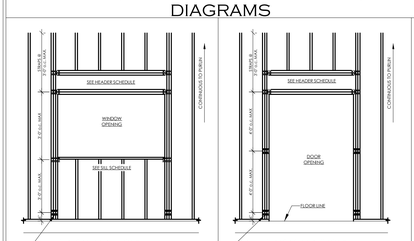
HEADER/SILL DIAGRAMS



SSMA TECHNICAL INFORMATION

6" - 18 GAUGE METAL STUD	600S 137-43
8" - 18 GAUGE METAL STUD	800S 137-43
8" - 16 GAUGE METAL STUD	800S 162-54
8" - 14 GAUGE METAL STUD	800S 162-68
6" - 18 GAUGE METAL TRACK	600 T 137-43
8" - 18 GAUGE METAL TRACK	800 T 137-43
8" - 16 GAUGE METAL TRACK	800 T 162-54
8" - 14 GAUGE METAL TRACK	800 T 162-68

TYPICAL METAL STUD FRAMING DIAGRAMS



G. WINDOW FRAMING

H. DOOR FRAMING

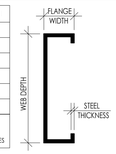
LIGHT STEEL FRAMING MATERIAL SIZING CHART

MEMBER SIZE	DESIGNATION
1 5/8"	162
2 1/2"	250
3 1/2"	350
3 5/8"	362
4"	400
5 1/2"	550
6"	600
7 1/4"	725
8"	800
9 1/4"	925
10"	1000
11 1/2"	1150
12"	1200

MEMBER DEPTH:
(EXAMPLE: 6" = 600 x 1/100 INCHES)
ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCH, FOR ALL "T" SECTIONS, MEMBER DEPTH IS INSIDE TO INSIDE DIMENSION.

FLANGE WIDTH	DESIGNATION
1 1/4"	125
1 3/8"	137
1 1/2"	150
1 5/8"	162
2"	200
2 1/2"	250

FLANGE WIDTH:
(EX: 1 5/8" = 1.625 = 162 x 1/100 INCHES)
ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES



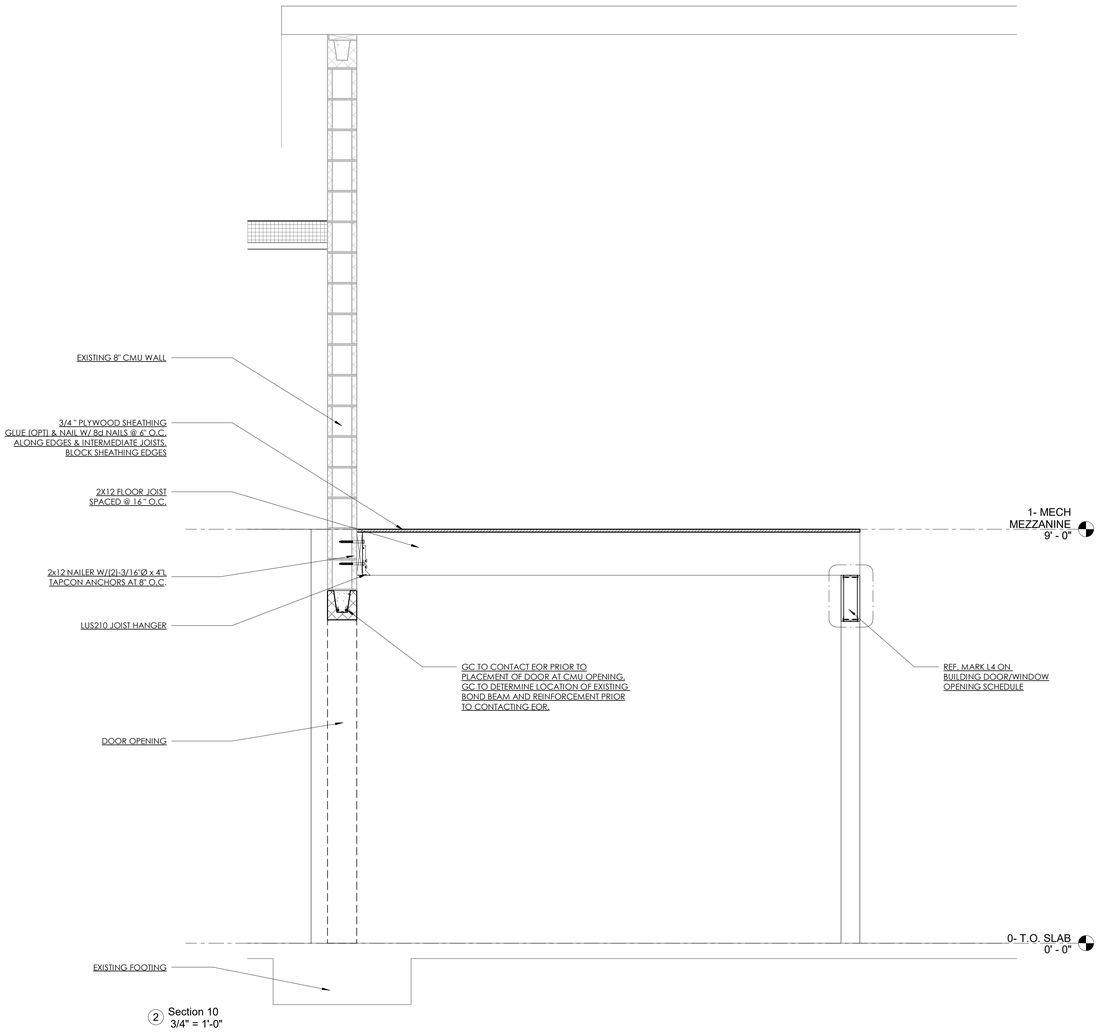
STEEL THICKNESS REFERENCE CHART

GAGE NO.	MIL THICKNESS	DESIGN (IN.)	MINIMUM (IN.)
25	18	0.0188	0.0179
22	27	0.0283	0.0269
20	33	0.0346	0.0329
18	43	0.0451	0.0428
16	54	0.0566	0.0538
14	68	0.0713	0.0677
12	97	0.1017	0.0966

600S162-54

STYLE:
(EXAMPLE: STUD OR JOIST SECTION = S)
THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:
S = STUD OR JOIST SECTIONS
T = TRACK SECTIONS
U = CHANNEL SECTIONS
F = FURRING CHANNEL SECTIONS

MATERIAL THICKNESS:
(EXAMPLE: 0.054" = 54 MILS; 1 MIL = 1/100 IN.)
MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.



2 Section 10
3/4" = 1'-0"

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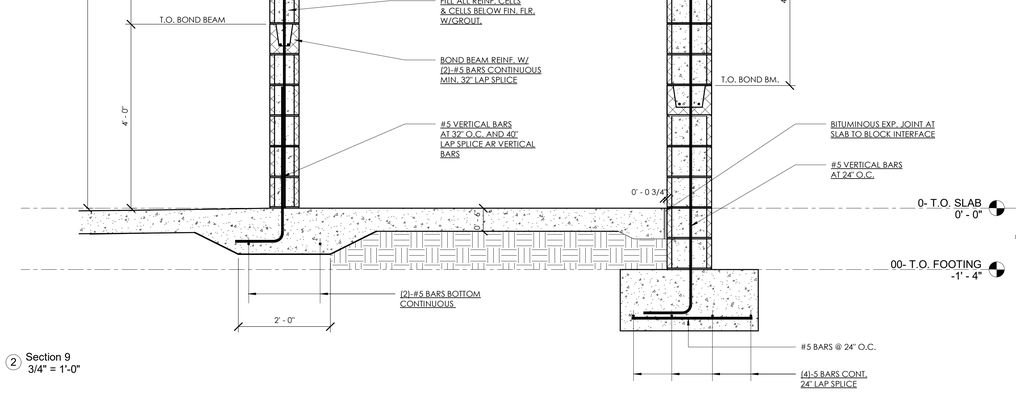
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REVISIONS:

TITLE:
WALL SECTIONS

SHEET:
S2.2

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2 Section 9
3/4" = 1'-0"



1 Section 8
3/4" = 1'-0"

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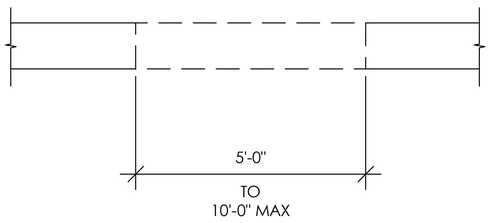
TITLE:
WALL SECTIONS

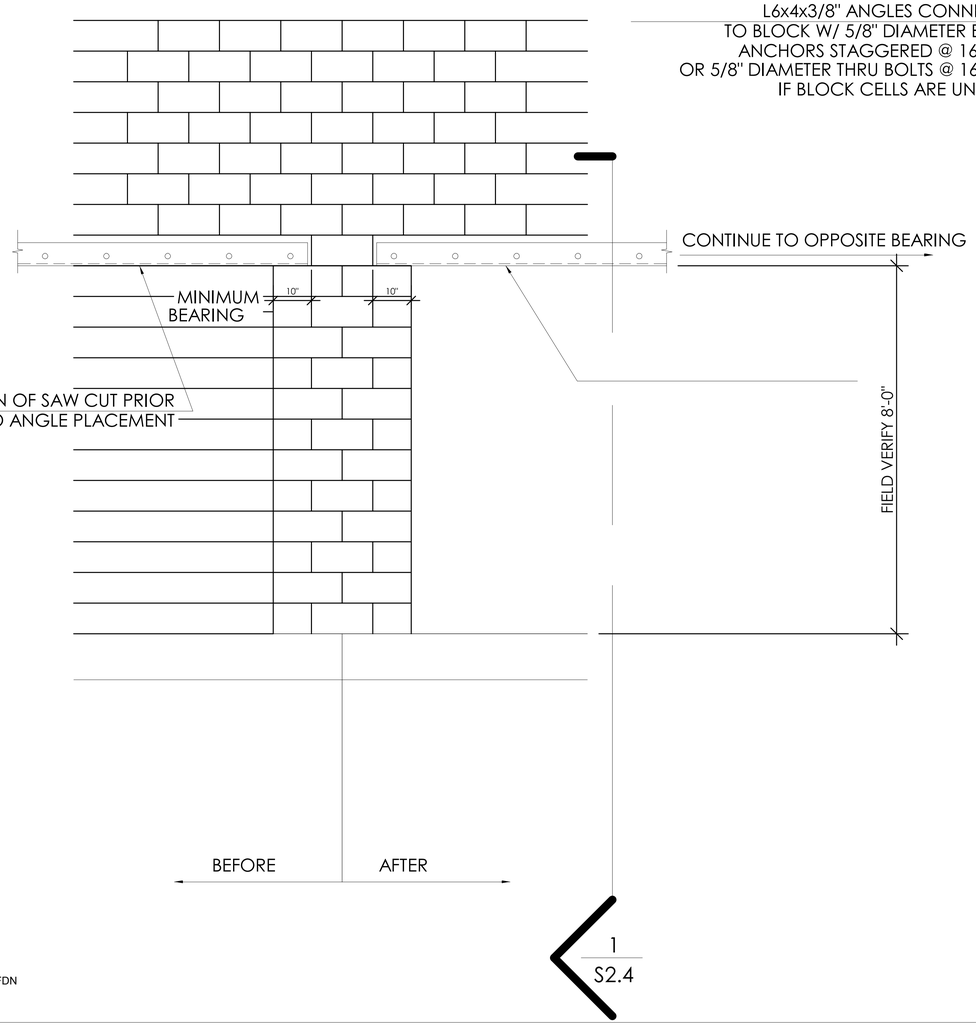
SHEET:
S2.3

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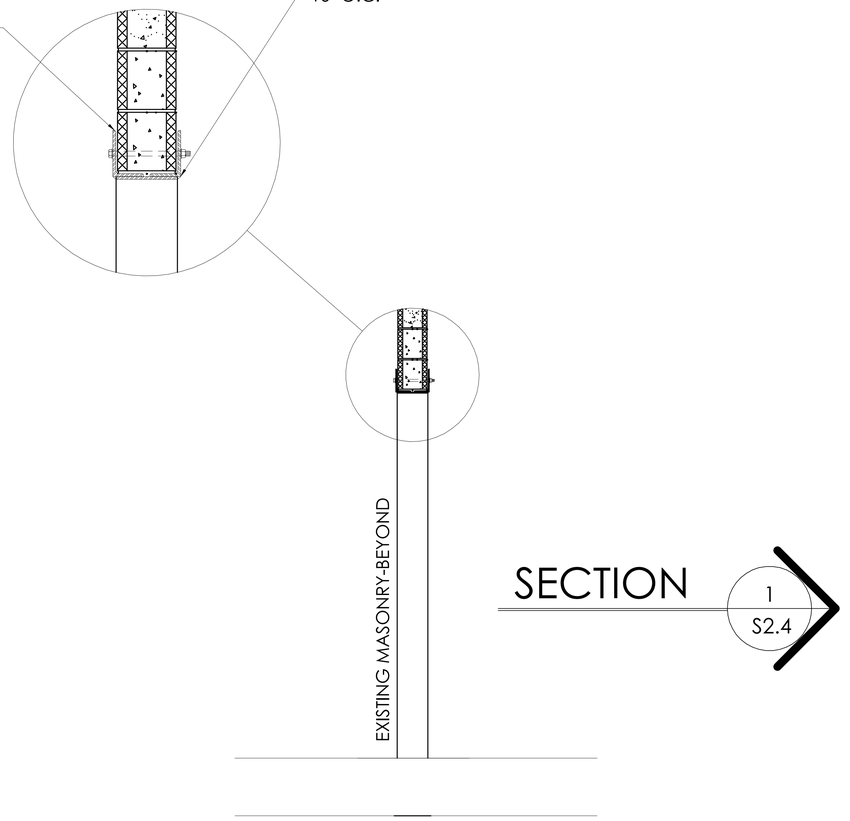
LINTEL PLACEMENT PROCEDURE:

1. PLACE $\frac{3}{4}$" WIDE (6" DEEP) HORIZONTAL SAW CUT ACROSS TOP OF ONE SIDE OF MASONRY OPENING. EXTEND APPROXIMATELY 10" PAST EDGE OF FUTURE OPENING FOR ANGLE IRON BEARING.
2. PLACE L6x4x 3/8" ANGLE IRON WITHIN OPENING ASSURING FULL PENETRATION OF HORIZONTAL LEG OF ANGLE SECTION.
3. REPEAT STEPS 1. AND 2. ON OPPOSITE SIDE OF WALL.
4. PLACE $\frac{5}{8}$" DIAMETER x 3 1/2"L EPOXY ANCHORS INTO PRE-DRILLED HOLES AT 16" O.C. (STAGGER HOLES OTHER THAN END HOLES FOR OPPOSITE ANGLE). IF BLOCK CELLS ARE UNFILLED USE $\frac{5}{8}$" DIAMETER THRU BOLTS AT 16" O.C. BOLT HOLES MUST BE MIRRORED AT BOTH ANGLES.
5. WELD CONTINUOUS $\frac{3}{8}$" THICK STEEL PLATE AS DESCRIBED. FIELD MEASURE TO DETERMINE REQUIRED PLATE WIDTH.
6. PLACE VERTICAL SAW-CUTS ON EITHER SIDE OF FUTURE OPENING AND GRADUALLY REMOVE BLOCK MASONRY.





1 L6x6x3/8 ANGLES WO FDN
3/4" = 1'-0"



SECTION 1 / S2.4

1 / S2.4

DOYLE ARCHITECTURE LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

NOT FOR CONSTRUCTION

Addition & Renovations to:
GORETOWN FIRE STATION
Loris, SC 29569
for:
HORRY COUNTY GOVERNMENT

PROJECT NO: 23-277

DATE: Date: 01/21/26

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COA No. C02845
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED
PROFESSIONAL
ENGINEER
No. 22809
SAUL JOSEPH MARTINEZ

TITLE:
EXISTING WALL PENETRATION

SHEET:
S2.4

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CONSTRUCTION NOTES

1. ALL THE NOTES, DRAWINGS, AND DETAILS SHALL BE PROPERLY INTERPRETED BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS RESPONSIBLE FOR WORK OUTLINED BY THESE DRAWINGS. THE STRUCTURAL ENGINEER OF RECORD FOR THESE DOCUMENTS WILL PROVIDE THE NECESSARY INFORMATION FOR THE PROPER INTERPRETATION OF STRUCTURAL DATA.

2. THE CONTRACTOR SHALL FIELD VERIFY ALL DRAWING DIMENSIONS AND NOIFY THE LEAD ARCHITECT AND/OR STRUCTURAL ENGINEER OF ANY NOTED DISCREPANCIES BETWEEN DRAWINGS.

3. UNLESS SPECIFIC DETAILS ARE PROVIDED BY THE STRUCTURAL ENGINEER, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROPER CONFIGURATION AND ERECTION OF TEMPORARY SHORING AND BRACING. THE CONTRACTOR SHOULD TAKE CONSIDERABLE CARE IN MAINTAINING THE INTEGRITY OR STABILITY OF THE STRUCTURE THROUGHOUT THE DURATION OF THE CONSTRUCTION.

4. THE CONTRACTOR MUST MAINTAIN AND DISTRIBUTE SHOP DRAWINGS TO THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO SUBMIT SHOP DRAWINGS AY RESULT IN THE REMOVAL AND REPLACEMENT OR NON-APPROVED BUILDING ELEMENTS AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHOULD ALLOW 10 WORKING DAYS FOR THE APPROVAL OF SHOP DRAWINGS.

5. THE ORIGINATORS OF SHOP DRAWINGS MAY NOT REPRODUCE DESIGN DRAWINGS FOR THE PURPOSE OF SHOP DRAWING APPROVAL UNLESS GRANTED PERMISSION TO DO SO BY THE STRUCTUAL ENGINEER OF RECORD.

6. ALL HANDRAILS, STAIRS, OR BUILDING ELEMENT DESIGNED BY INTERESTS OTHER THAN THE STRUCTURAL ENGINEER OF RECORD, MUST BE SEALED BY THE RESPONSIBLE ENGINEER AND SUBMITTED TO THE CONTRACTOR FOR RECORDING PURPOSES.

7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ALL BUILDING ELEMENTS ARE NOT SUBJECT TO LOADS GREATER THAN THOSE ALLOWED BY THE DESIGN LOAD TABLE.

8. THE CONTRACTOR MUST OBTAIN WRITTEN PERMISSION BY THE STRUCTURAL ENGINEER BEFORE DEVIATING FROM INSTRUCTIONS PROVIDED BY THE DESIGN DOCUMENTS.

9. DETAILS PROVIDED IN THESE DOCUMENTS MAY BE TYPICAL TO MULTIPLE LOCATIONS THROUGHOUT THE BUILDING AND SHOULD BE REPEATED AS APPLICABLE.

10. THE ENGINEER RESERVES THE AUTHORITY TO MODIFY THE BUILDING STRUCTURAL ELEMENTS AS NEEDED WHEN LOADING CONDITIONS ARE ALTERED FOLLOWING THE DESIGN PROCESS.

11. ALL EXISTING PROJECT CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR INCLUDING DIMENSIONS AND CONDITIONS. DESIGN DRAWING SPECIFICATIONS FOUND TO BE IN CONFLICT WITH EXISTING CONDITION MUST BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER.

12. QUESTIONS RELATING TO THE INCLUDED STRUCTURAL DRAWINGS MAY BE DIRECTED TO:

MARTINEZ & ASSOCIATES STRUCTURAL ENGINEERS, P.A.
1101 JOHNSON AVENUE STE 200
MYRTLE BEACH, SOUTH CAROLINA 29577
(843) 839-1620 OFFICE
WWW.STRUCTURALSTRENGTH.ORG

13. ENGINEERING DRAWINGS ARE PROTECTED BY UNITED STATES GOVERNMENT COPYRIGHT LEGISLATION AND MAY NOT BE REPRODUCED WITHOUT THE WRITTEN PERMISSION OF MARTINEZ & ASSOCIATES STRUCTURAL ENGINEERS, PROFESSIONAL ASSOCIATION.

CONCRETE:

1. ALL CONCRETE AND REINFORCING STEEL MUST BE INSTALLED PER THE CURRENT ADOPTED ISSURE OF THE AMERICAN CONCRETE INSTITUTE BUILDING CODE AND COMMENTARY 318.

2. THE CONTRACTOR IS RESPONSIBLE FOR ALL REINFORCING BARS TO BE SECURED DURING THE PLACEMENT OF CONCRETE. REBAR CHAIRS ARE RECOMMENDED FOR BOTH REINFORCING BARS AND WIRE WELDED MESH REINFORCEMENT IN ORDER TO MAINTAIN THE REQUIRED CLEAR DISTANCE AS REQUIRED BY ACI-318.

3. UNDER NO CIRCUMSTANCES MAY WATER BE ADDED TO THE CONCRETE MEX DURING PLACEMENT WITHOUT THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER OF RECORD.

4. UNDER NO CIRCUMSTANCES MAY CALCIUM CHLORIDE BE ADDED TO THE CONCRETE MIX.

5. SPECIAL PERCAUTIONS MUST BE TAKEN PER ACI-318 WEN PLACING CONCRETE DURING HOT (ABOVE 90 DEGREES FAHRENHEIT) OR COLD (BELOW 45 DEGREES FAHRENHEIT) TEMPERATURES. THE CONTRACTOR SHOULD CONSULT THE STRUCTURAL ENGINEER WHEN PLACING CONCRETE IN THESE CONDITIONS.

6. REINFORCING STEEL SHOULD CONFORM TO ASTM A615, GRADE 60.

7. A MINIMUM LAP OF 1'-4" SHOULD BE ACHIEVED WHEN PLACING WELDED WIRE FABRIC.

8. 28 DAY MINIMUM CONCRETE COMPRESSIVE STRENGTHS MUST BE AS FOLLOWS:

FOOTINGS 4000 PSI

9. A MINIMUM OF TWO #5 HORIZONTAL BAR MUST BE WITHIN 0'-6" OF THE TOP AND BOTTOM OF THE WALL PLATE.

WOOD:

1. ALL WOOD FRAMING MEMBERS SHALL BE SPRUCE-PINE-FUR GRADE NO. 2 AS A MINIMUM.

2. ALL LUMBER SHALL BE CONTINUOUS. TOP PLATE SPLICING MAY BE DONE OVER VERTICAL STUDS AND SPACED A MINIMUM OF 48" APART. BEAM SPLICING MAY ONLY BE DONE WITH THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

3. ALL EXTERIOR WALLS MUST BE SHEATHED WITH A MINIMUM OF 7/16" O.S.B. SHEATHING NAILED WITH 8d NAILS @ 4" O.C. ALONG SHEATHING EDGES AND 6" O.C. ALONG INTERMEDIATE FRAMING MEMBERS. BLOCKING MUST BE PROVIDED ALONG SHEATHING EDGES AND MAY BE TURNED 90 DEGREES IN ORDER TO FACILITATE AN AMPLE NAILING SURFACE FOR BOTH SHEATH EDGES. BUILDINGS WITH COASTAL EXPOSURE (WITHIN 1 MILE OF THE COAST) MUST BE CONNECTED WITH GALVANIZED NAILS.

4. ALL PLYWOOD OR O.S.B. ROOF SHEATHING MUST BE A MINIMUM OF 5/8" AND BE GLUED TO RAFTERS/TRUSSES AND ATTACHED WITH 8d NAILS AT 6" O.C. ALONG SHEATHING EDGES AND 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS.

5. IN NO CASE SHALL NAILS BE USED IN TENSION. A MINIMUM OF #8 WOOD SCREWS MUST BE USED INSTEAD.

6. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATION OF PRESSURE TREATED WOOD FRAMING MEMBERS.

7. CONNECTORS DIRECTLY IN CONTACT WITH PRESSURE TREATED LUMBER MUST BE COATED WITH AN EQUIVALENT 1.85 OZ./SQ. FT. ZINC COATING. SIMPSON ZMAX(TM) CONNECTORS MUST BE USED IN LIEU OF STANDARD CONNECTORS.

8. NAILS IN CONTACT WITH PRESSURE TREATED LUMBER MUST BE HOT-DIPPED GALVANIZED.

9. FIRST LEVEL SHEARWALLS WITHIN A TWO LEVEL STRUCTURE MUST POSSESS A SINGLE STUD AT TEH END OF EACH SHEATHING PIECE FOR FULL ATTACHENT PER NAILING PATTERN.

10. 1/2" PLYWOOD SHEATHING MAY BE USED IN LEIU OF 7/16" O.S.B. SHEATHING.

PRE-MANUFACTURED WOOD TRUSSES:

1. THE ANCHOR POINTS OF ALL ROOF TRUSSES MUST BE ANCHORED WITH SIMPSON META24 ANCHORS OR EQUIVALENT. SIMPSON MGT GIRDER HOLD-DOWNS MAY BE USED AT DOUBLE OR TRIPLE PLY TRUSS GIRDERS.

2. PER-MANUFACTURED WOOD TRUSS MANUFACTURER TO PROVIDE DETAILS FOR ALL TEMPORARY AND PERMANENT BRACING. THESE DETAILS WILL PROVIDE PERMANENT STABILITY OF THE WOOD TRUSS SYSTEM.

3. WOOD TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.

4. WOOD TRUSS DESIGNS, SHOP DRAWINGS, AND ERECTIONS DETAILS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER.

5. CONTRACTOR MAY USE THE STANDARD SET FORTH BY THE "TRUSS PLATE INSTITUTE" GUIDELINES OBTAINED FROM THE TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DRIVE, SUITE 200, MADISON, WISCONSIN 53719 PH (608) 833-5900.

6. TRUSS MANUFACTURER TO COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

7.ROOF TRUSSES TO BE DESIGNED FOR

-150 MPS ULTIMATE/ 116 NOMINAL
-TOP CHORD DL = 15 PSF
LL = 20 PSF

-BOTTOM CHORD DL = 15 PSF
LL = 20 PSF (NON-STORAGE)
LL = 30 PSF (ATTIC AREAS)

8. CONTRACTOR TO PLACE TRIPLE WOOD STUDS BENEATH BEARING POINTS OF WOOD TRUSS GIRDERS.

9. CONTRACTOR TO SUBMIT TRUSS SHOP DRAWINGS FOR REVIEW BY ARCHITECT AND ENGINEER PRIOR TO MANUFACTURING.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SPECIFICATIONS ARE AS FOLLOWS:

A. ANCHOR BOLTS	ASTM A325 OR AS SPECIFIED PER DRAWINGS
B. PLATES	ASTM A36
C. STEEL PIPE	ASTM A53, TYPE E OR S, GRADE B, FY= 35 KSI
D. STRUCTURAL TUBING	ASTM A500, GRADE B, FY= 46 KSI
E. WIDE FLANGE SHAPES	ASTM A572, GRADE 50
F. OTHER ROLLED SHAPES	ASTM A36

2. WELDS ALL AROUND UNLESS OTHERWISE SPECIFIED ON THE DESIGN DRAWINGS. CERTIFIED WELDER TO REFER TO TABLE J2.4 OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR THE MINIMUM SIZE OF FILLET WELDS FOR A PARTICULAR MATERIAL THICKNESS.

3. ALL EXPOSED STELL MUST BE GROUND SMOOTH AND PAINTED OR GALVANIZED PER THE MANUFACTURER.

4. BOLTED BEAM CONNECTIONS SHALL USE 3/4" DIAMETER A-325 SLIP-CRITICAL BOLTS (U.N.O) CAPABLE OF DEVELOPING THE UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE MEMBER PER A.I.S.C. SECTION 2 ALLOWABLE LOADS ON BEAMS.

MASONRY:

1. CONCRETE MASONRY UNITS OF TYPE M OR S MORTAR (MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI) SHALL BE USED FOR BOTH AND EXTERIOR AND INTERIOR APPLICATIONS.

2. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE MASONRY UNIT CELLS SHOULD BE FILLED WITH MINIMUM 3000 PSI GROUT OR CONCRETE MIX.

3. THE CONNECTION OF INTERSECTING WALLS SHALL CONFORM TO ONE OF THE FOLLOWING REQUIREMENTS:

a) FIFTY PERCENT OF THE MASONRY UNITS AT THE INTERFACE SHALL INTERLOCK.
b) WALLS SHALL BE REGULARY TOOTHED WITH 8in. MAXIMUM OFFSETS AND ANCHORED BY STELL CONNECTORS METTING THE FOLLOWING REQUIREMENTS:
   1) MINIMUM SIZE: 1/4in. x 1 1/2in. x 28in. INCLUDING 2 in. LONG 90° BEND AT EACH END TO FORM A "U" OR "Z" SHAPE.
   2) MAXIMUM SPACING 4ft.
c) INTERSECTING BOND BEAM SHALL BE PROVIDED IN INTERSECTING WALLS AT A MAXIMUM SPACING OF 4 ft, ON CENTERS. BOND BEAMS SHALL BE REINFORCED AND THE AREA OF REINFORCEMENT SHALL NOT BE LESS THAN 0.1 in. 2 PER ft. OF WALL. REINFORCEMENT SHALL BE DEVELOPED ON EACH SIDE OF THE INTERSECTION.

4. LONGITUDINAL AND CROSS WIRES OF JOINT REINFORCEMENT SHALL HAVE A MINIMUM WIRE SIZE OF W1.1 AND A MAXIMUM WIRE SIZE OF ONE-HALF THE JOINT THICKNESS.

5. THE CLEAR DISTANCE BETWEEN PARALLEL BARS SHALL NOT BE LESS THAN THE NOMINAL DIAMETER OF THE BARS, NOR LESS THAN 1 in.

6. IN COLUMNS AND PILASTERS, THE CLEAR DISTANCE BETWEEN VERTICAL BARS SHALL NOT BE LESS THAN ONE AND ONE-HALF TIMES THE NOMINAL BAR DIAMETER, NOR LESS THAN 1 1/2in.

7. GROUPS OF PARALLEL REINFORCING BARS BUNDLED IN CONTACT TO ACT AS A UNIT SHALL BE LIMITED TO TWO IN ANY ONE BUNDLE. INDIVIDUAL BARS IN A BUNDLE CUT OFF WITHIN THE SPAN OF A MEMBER SHALL TERMINATE AT POINTS AT LEAST 40 BAR DIAMETERS APART.

8. REINFORCEMENT EMBEDDED IN GROUT SHALL HAVE A THICKNESS OF GROUT BETWEEN THE REINFORCEMENT AND MASONRY UNITS NOT LESS THAN 1/4in. FOR FINE GROUT OR 1/2in. FOR COARSE GROUT.

9. LONGITUDINAL WIRES OF JOINT REINFORCEMENT SHALL BE FULLY EMBEDDED IN MORTAR OR GROUT WITH A MINIMUM COVER OF 5/8in. WHEN EXPOSED TO EARTH OR WEATHER AND 1/2in. WHEN NOT EXPOSED TO EARTH OR WEATHER. JOINT REINFORCEMENT IN MASONRY EXPOSED TO EARTH OR WEATHER SHALL BE CORROSION RESISTANT OR PROTECTED FROM CORROSION BY COATING.

10. STANDARD HOOKS SHALL BE FORMED BY ONE OF THE FOLLOWING METHODS

a) A 180° TURN PLUS EXTENSION OF AT LEAST 4 BAR DIAMETERS BUT NOT LESS THAN 2 1/2in. AT FREE END OF BAR.
b) A 90° TURN PLUS EXTENSION OF AT LEAST 12 BAR DIAMETERS AT FREE END OF BAR.
c) FOR STIRRUP AND TIE ANCHORAGE ONLY, EITHER A 90° OR A 135° TURN PLUS AN EXTENSION OF AT LEAST 6 BAR DIAMETERS AT TEH FREE END OF THE BAR

11. THE DIAMETER OF BEND MEASURED ON THE INSIDE OF REINFORCING BARS, OTHER THAN FOR STIRRUPS AND TIES SHALL NOT BE LESS THAN:

a) FOR BAR SIZES No. 3 THROUGH No. 7, GRADE 40 - 5 BAR DIAMETERS.
b) FOR BAR SIZES No. 3 THROUGH No. 8, GRADE 50 OR 60 - 6 BAR DIAMETERS.
c) FOR BAR SIZES No. 9, No. 10, AND No. 11 GRADE 50 OR 60 - 8 BAR DIAMETERS.

12. MASONRY PARTITION WALLS, MASONRY SCREEN WALLS AND OTHER MASONRY ELEMENTS THAT ARE NOT DESIGNED TO RESIST VERTICAL OR LATERAL LOADS, OTHER THAN THOSE INDUCED BY THEIR OWN MASS, SHALL BE ISOLATED FROM THE STRUCTURE SO THAT VERTICAL AND LATERAL FORCES ARE NOT IMPARTED TO THESE ELEMENTS. ISOLATION JOINTS AND CONNECTORS BETWEEN THESE ELEMENTS AND THE STRUCTURE SHALL BE DESIGNED TO ACCOMMODATE THE DESIGN STORY DRIFT.

13. HORIZONTAL REINFORCEMENT- HORIZONTAL JOINT REINFORCEMENT SHALL CONSIST OF LEAST TWO LONGITUDINAL W1.7 WIRES SPACED NOT MORE THAN 16in. FOR WALLS GREATER THAN 4in. IN WIDTH AND AT LEAST ONE LONGITUDINAL W1.7 WIRE SPACED NOT MORE THAN 48in. WHERE TWO LONGITUDINAL WIRES OF JOINT REINFORCEMENT ARE USED, THE SPACE BETWEEN THESE WIRES SHALL BE THE WIDEST THAT THE MORTAR JOINT WILL ACCOMMODATE. HORIZONTAL REINFORCEMENT SHALL BE PROVIDED WITHIN 16in. OF THE ENDS MASONRY WALLS.

14. VERTICAL REINFORCEMENT- VERTICAL REINFORCEMENT SHALL CONSIST OF AT LEAST ONE No. 4 BAR SPACED NOT MORE THAN 48in. VERICAL REINFORCEMENT SHALL BE LOCATED WITHIN 16in. OF THE ENDS OF MASONRY WALLS.

15. MINIMUM REINFORCEMENT REQUIREMENTS FOR MASONRY SHEAR WALLS:

a) VERTICAL REINFORCEMENT OF AT LEAST 0.2in2 IN CROSS-SECTIONAL AREA SHALL BE PROVIDED AT CORNERS, WITHIN 16in. OF EACH SIDE OF OPENINGS, WITHIN 8in. OF EACH SIDE OF MOVEMENT JOINTS, WITHIN 8in. OF THE ENDS OF WALLS, AND AT A MAXIMUM SPACING OF 10 ft.
b) HORIZONTAL JOINT REINFORCEMENT SHALL CONSIST OF AT LEAST TWO WIRES OF W1.7 SPACED NOT MORE THAN 16in.; OR BOND BEAM REINFORCEMENT SHALL BE PROVIDED OF AT LEAST 0.2 in2 IN CROSS-SECTIONAL AREA SPACED NOT MORE THAN 10ft. HORIZONTAL REINFORCEMENT SHALL ALSO BE PROVIDED AT THE BOTTOM AND TOP OF WALL OPENEINGS AND SHALL EXTEND NOT LESS THAN 24in. NOR LESS THAN 40 BAR DIAMETERS PAST THE OPENING; CONTINUOUSLY AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS; AND WITHIN 16in OF THE TOP OF WALLS.

16. MINIMUM REINFORCEMENT REQUIREMENTS FOR MASONRY WALLS- MASONRY WALLS OTHER THAN THOSE COVERED IN NUMBER 13 ABOVE SHALL BE REINFORCED IN BOTH THE VERTICAL AND HORIZONTAL DIERCTION. THE SUM OF THE CROSS-SECTIONAL AREA OF HORIZONTAL AND VERTICAL REINFORCEMENT SHALL BE AT LEAST 0.002 TIMES THE GROSS CROSS-SECTIONALAREA OF THE WALL, AND THE MINIMUM CROSS-SECTIONAL AREA IN USING SPECIFIED DIMENSIONS, REINFORCEMENT SHALL BE UNIFORMLY DISTRIBUTED. THE MAXIMUM SPACING OF REINFORCEMENT SHALL BE 48in. EXCEPT FOR STACK BOND MASONRY. WYTHES OF STACK BOND MASONRY SHALL BE CONSTRUCTED OF FULLY GROUTED HOLLOW OPEN-END UNITS, FULLY GROUTED HOLLOW UNITS LAID WITH FULLHEAD JOINTS OR SOLID UNITS. MAXIMUM SPACING OF REINFORCEMENT FOR WALLS WITH STACK BOND MASONRY SHALL BE 24in

17. SHEAR WALL REINFORCEMENT REQUIREMENTS- THE MAXIMUM SPACING OF VERTICAL AND HORIZONTAL REINFORCEMENT SHALL BE THE SMALLEST OF: ONE-THIRD THE LENGTH OF THE SHEAR WALL, ONE-THIRD THE HEIGHT OF THE SHEAR WALL, OR 48in. THE NIMIMUM CROSS-SECTIONAL AREA OF VERTICAL REINFORCEMENT SHALL BE ONE-THIRD OF THE REQUIRED SHEAR REINFORCEMENT.

18. MINIMUM REINFORCEMENT FOR MASONRY COLUMNS - LATERAL TIES IN MASONRY COLUMNS SHALL BE SPACED NOT MORE THAN 8in. ON CENTER AND SHALL BE AT LEAST 3/8in. IN DIAMETER. LATERAL TIES SHALL BE EMBEDDED IN GROUT.

19. MATERIAL REQUIREMENTS - NEITHER TYPE N MORTAR NOR MASONRY CEMENT SHALL BE USED AS PART OF THE LATERAL FORCE-RESISTING SYSTEM.

20. LATERAL TIE ANCHORAGE - STANDARD HOOK FOR LATERAL TIE ANCHORAGE SHALL BE EITHER A 135° STANDARD HOOK OR A 180° STANDARD HOOK.

COLD-FORMED STEEL AND LIGHT-FRAMED SHEAR WALLS

1. STUDS SHALL BE A MINIMUM 1 5/8" BY 3 5/8" WITH A 3/8" RETURN LIP. MINIMUM, STUDS SHALL BE DOUBLE (BACK TO BACK) AT SHEAR WALLS ENDS.

2. TRACK SHALL BE MINIMUM 1 1/4" BY 3 1/2" AND SHALL BE EQUAL IN GAUGE THICKNESS TO THAT OF THE METAL STUD(S) WITHIN THAT TRACK.

3. BOTH STUDS AND TRACK SHALL HAVE A MINIMUM UNCOATED BASED METAL THICKNESS OF 33 MILS AND SHALL BE OF THE FOLLOWING GRADE OF STRUCTURAL QUALITY STEEL: ASTM A653 SS GRADE 33, ASTM A792 SS GRADE 33, OR ASTM A875 SS GRADE 33.

4. FASTENERS ALONG THE EDGES IN SHEAR PANELS SHALL BE PLACED NOT LESS THAN 3/8" IN FROM PANEL EDGES.

5. WHEN HORIZONTAL STRAP BLOCKING IS USED TO PROVIDE EDGE BLOCKING, IT SHALL BE A MINIMUM 3" WIDE AND OF THE SAME MATERIAL AND EQUAL OR GREATER THICKNESS AS THE TRACK AND STUDS.

6. SCREWS SHALL BE ATTACHED TO INTERMEDIATE SUPPORTS AT 12" ON CENTER UNLESS OTHERWISE NOTED.

7. GYPSUM BOARD ATTACHED TO DESIGNATED SHEAR OR LOAD BEARING WALL SHALL BE FULLY BLOCKED WITH SCREW SPACING AT 6" O.C. AT BOARD EDGES AND 6" O.C. WITHIN BOARD FIELD.

8. WOOD STRUCTURAL PANELS SHALL BE ATTACHED TO STEEL FRAMING WITH FLAT-HEAD SELF-DRILLING TAPPING SCREWS WITH A MINIMUM HEAD DIAMETER OF 0.292 INCH.

9. STRUCTURAL PANELS ARE PERMITTED TO BE APPLIED EITHER PARALLE OR PERPENDICULAR TO FRAMING.

10. SCREWS USED TO ATTACH GYPSUM BOARD SHALL BE MINIMUM NO.6 IN ACCORDANCE WITH ASTM C954.

11. ATTACH TRACK TO CONCRETE BASE WITH A MINIMUM OF (2) 0.177 POWDER ACTUATED FASTENERS AT 16" ON CENTER.

12. ATTACH STUDS TO TRACK LEGS WITH A MINIMUM OF (2) #8 TAP SCREWS.

GEOTECHNICAL:

1. THE CONCRETE FOUNDATION HAS BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 P.S.F.

2. SOIL PROPERTIES AND THE VERIFICATION, THEREOF, IS THE RESPONSIBILITY OF THE OWNER AND OR GEOTECHNICAL ENGINEER OF RECORD.

LOAD TABLE

STRUCTURAL DESIGN BASED ON AND DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE

LIVE LOADS:

1. FLOOR LOADS:
   A. Rooms - 40 p.s.f.
   B. Offices - 50 p.s.f.
   C. Decks - 60 p.s.f.
   D. Balconies - 100 p.s.f.
   E. Other loads per IBC 2012 - 40 p.s.f.
2. ROOF LOADS:
   A. Basic roof live load= 15 p.s.f.
3. PARTITIONS:
   A. Partition load - 12 p.s.f.

DEAD LOADS:

1. USE ACTUAL DEAD LOADS OF MATERIALS

SNOW LOADS:

FLAT-ROO SNOW LOAD - Pf =10 p.s.f.
SNOW EXPOSURE FACTOR - Ce = 1.0
SNOW LOAD IMPORTANCE FACTOR - Is = 1.0
THERMAL FACTOR - Ct = 1.0

NOTE:
IT SHALL BE UNLAWFUL TO PLACE OR CAUSE OR PERMIT TO BE PLACED, ON ANY FLOOR OR ROOF OF A BUILDING, STRUCTURE OR PORTION THEREOF, A LOAD GREATER THAN IS PERMITTED BY THESE REQUIREMENTS.(PER IBC CHAPTER 16/ASCE 7-10)

WIND LOADS:

BUILDING CLASSIFICATION: ENCLOSED
WINDOWS PROTECTION: IMPACT GLAZING FOR LARGE MISSILE TEST ASTM E 1996 (BELOW 30 FEET)
SMALL MISSILE TEST ASTM E 1996 (ABOVE 30 FEET)

DESIGN WIND SPEED (mph)=150 ULTIMATE/ 116 NOMINAL
WIND IMPORTANCE FACTOR - Iw = 1.0
BUILDING RISK CATEGORY = IV
WIND EXPOSURE = D
INTERNAL PRESSURE COEFICIENT = +/- 0.18
REQUIRED WINDOW/DOOR DESIGN PRESSURE RATING = 55 PSF

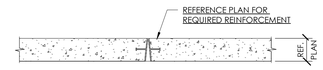
SEISMIC LOADS:

SEISMIC USE GROUP - I
SPECTRAL RESPONSE COEFFICIENTS -
Sds = 0.48 Sd1 = 0.25

SITE CLASS - F
SEISMIC DESIGN CATEGORY - D
BASIC SEISMIC-FORCE RESISTING SYSTEM-

BEARING WALL SYSTEM

DESIGN BASE SHEAR - LESS THAN 22 KIPS
ANALYSIS PROCEDURE - EQUIVALENT FORCE METHOD



TYPICAL KEY-WAY CONTROL JOINT DETAIL



TYPICAL SAW JOINT DETAIL

SOUTH CAROLINA
MARTINEZ & ASSOCIATES
STRUCTURAL ENGINEERS
MURRELLS INLET, S.C.
COA No. C02845
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED
No. 22809
PROFESSIONAL ENGINEER
SAUL JOSEPH MARTINEZ

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Addition & Renovations to:
GORETOWN FIRE STATION
Loris, SC 29569
for:
HORRY COUNTY GOVERNMENT

PROJECT NO: 23-277

DATE: Date: 12/31/25

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REVISIONS:

TITLE:
GENERAL NOTES

SHEET:
S3.0

PLUMBING FIXTURE SCHEDULE

P-#	FIXTURES	SPECIFICATIONS	PIPING REQUIRED		
			WASTE	CW	HW
P-1	WATER CLOSET/ADA FLOOR MOUNTED TANK TYPE – 1.6 GPF	AMERICAN STANDARD "CHAMPION 4 RIGHT HEIGHT" MODEL 2002.014 VITREOUS CHINA TOILET WITH ELONGATED BOWL AND TANK WITH SIDE TRIP LEVER, 16 ½" RIM HEIGHT, 1.6 GPF, 12" ROUGH–IN, BOLT CAPS, COMPLIES WITH ANSI A112.19.2 & A117.1 SEAT : BEMIS/CHURCH DURAGUARD 2100 NSSC ANTI–MICROBIAL HEAVY DUTY WHITE ELONGATED OPEN FRONT SEAT WITH COVER. VALVE: McGUIRE NO. 2166 ⅜"X12" FLEX CLOSET SUPPLY WITH STOP.	3"	1/2"	--
P-2	LAVATORY – CABINET MTD. SINGLE HANDLE FAUCET ADA	AMERICAN STANDARD "AQUALYN" 0476.028 CABINET MTD. WHITE VITREOUS CHINA 20"x17" SELF RIMMING LAVATORY. FAUCET: AMERICAN STANDARD "MONTERREY" MODEL 6114 SINGLE HANDLE FAUCET. TRAP AND SUPPLIES: McGUIRE NO. 155WC OFFSET WHEELCHAIR LAVATORY GRID STRAINER WITH 1 ¼"OUTLET. McGUIRE NO. 8902 17 GA 1 ¼"x1 ½" P–TRAP & NIPPLE. McGUIRE NO 2165 ½" IPS X ⅜" FLEX ANGLE SUPPLY WITH STOP.	1–1/2"	1/2"	1/2"
P-3	SHOWER STALL HANDICAP/ADA	AQUATICBATH SHOWER UNIT MODEL 1603BFSTD FULLY EQUIPPED WITH RH SEAT LOCATION, SOAP DISH, HAND HELD SHOWER ASSEMBLY WITH 30" SLIDE BAR & 60" HOSE, PRESSURE BALANCING MIXING VALVE, AND BRASS SHOWER DRAIN.	3"	1/2"	1/2"
P-3A	SHOWER STALL HANDICAP/ADA	AQUATICBATH ICON SHOWER UNIT SH6030. PROVIDE SYMMONS PRESSURE BALANCE VALVE ORIGINS MODEL 9605–PLR WITH VOLUME CONTROL FEATURES CERAMIC DISC VALVE CARTRIDGE WITH AN ADJUSTABLE HOT LIMIT SAFETY STOP. LOW LEAD FORGED BRASS BODY. ALL METAL LEVER HANDLE AND WALL ESCUTHEON. SCREW DRIVER STOPS, WITH WALL SUPPLY, IN–LINE VACUUM BREAKER, SHOWER HEAD, ALL POLISHED CHROME FINISH. TEMPERATURE COLOR INDEX ON ESCUTHEON.	3"	1/2"	1/2"
P-4	ICE/COFFEE MAKER CONNECTION	PROVIDE RECESSED WALL BOX WITH SHUT–OFF VALVE, ROUTE ⅜" SOFT "K" COPPER TO MACHINE CONNECTION.	--	1/2"	--
P-5	DOUBLE BOWL SINK	ELKAY LUSTRON MODEL LR3322PD DOUBLE BOWL TOP MOUNT SINK. 33"X22", 304 STAINLESS STEEL, 18 GAUGE, 3 ½" FAUCET LEDGE WITH 4 HOLES @ 4" CENTERS. TRAP AND SUPPLIES: McGUIRE NO 151 CHROME PLATED FORGED BRASS STRAINER WITH 1–½" TAILPIECE, McGUIRE NO. 8912 1 ½" P–TRAP AND NIPPLE. McGUIRE NO. 2165 ANGLE SUPPLIES WITH STOPS. FAUCET: SYMMONS 'VELLA' MODEL S2620 KITCHEN FAUCET. CHROME PLATED BRASS CONSTRUCTION, SINGLE HANDLE, COMPLIES WITH LATEST ADA REQUIREMENTS. PROVIDE DISHWASHER AND ICEMAKER ATTACHMENT POINTS.	1–1/2"	1/2"	1/2"
P-6	SERVICE SINK	FIAT FL–1 SINGLE COMPARTMENT FLOOR MOUNTED SERVICE SINK. 20"X17", THERMOPLASTIC, PROVIDE WITH DRAIN AND FAUCET ASSEMBLY A–1. TRAP AND SUPPLIES: TAILPIECE, McGUIRE NO. 8912 1 ½" P–TRAP AND NIPPLE. McGUIRE NO. 2165 ANGLE SUPPLIES WITH STOPS. PROVIDE HOSEBIBB BELOW SINK	1–1/2"	1/2"	1/2"
P-7	ELECTRIC WATER COOLER BOTTLE FILLING STATION HANDICAP/ADA DUAL HEIGHT	ELKAY MODEL NO. EZSTL8WSLK EZH20 BARRIER–FREE DUAL–HEIGHT UNIT WITH FRONT AND SIDE PUSH BARS, BOTTLE FILLING STATION. SIMULATED RECESSED MODEL WITH LEAD FREE WATERWAYS, 8 GPH OF 50°F WATER AT 90AMF. HEAVY GAUGE UNIT WITH STAINLESS STEEL FINISH TRAP AND SUPPLIES: McGUIRE NO. 8872 1 ¼" P–TRAP AND NIPPLE, McGUIRE NO. 165 ANGLE SUPPLY WITH STOP.	1–1/4"	1/2"	--
P-8	WASHING MACHINE CONNECTION	GUY GREY MODEL NO. T–200 WASHING MACHINE SUPPLY & DRAIN, 20 GAUGE STEEL PAINTED WITH WHITE SYNTHETIC ENAMEL. 9 ¼"X 14". 2" DRAIN OUTLET, ½" COMBINATION MPT BRASS SWEAT CONNECTIONS, ANGLE GATE VALVES. PANEL SHALL HAVE KNOCKOUTS IN TOP, BOTTOM, AND SIDES.	2"	1/2"	1/2"
P-9	EYE WASH	BRADLEY MODEL S19–220T WALL MOUNT EYE/FACE WASH	1 1/2"	1/2"	--
P-10	DECON STATION	STAINLESS STEEL SINK/TABLE BY OTHERS FAUCET T&S MODEL B–0113–BY, PROVIDE LEVER OPERATED DRAIN, McGUIRE NO. 165 ANGLE SUPPLY WITH STOP	1 1/2"	1/2"	–
FD	FLOOR DRAIN	FLUSH MOUNTED FLOOR DRAIN WITH STRAINER. COORDINATE WITH ARCHITECTURAL PLANS AND EQUIPMENT INSTALLER FOR EXACT POSITION. PROVIDE TRAP PRIMERS OR SEAL GUARD.	3"	--	--
FD–B	FLOOR DRAIN TRUCK BAY	JOSAM MODEL 38040–11–6––81 TRAFFIC DUTY FLOOR DRAIN WITH CLEANOUT/BUCKET, BACKWATER VALVE AND DEEP SEAL TRAP. COORDINATE WITH ARCHITECTURAL PLANS AND EQUIPMENT INSTALLER FOR EXACT POSITION. PROVIDE TRAP PRIMERS OR SEAL GUARD.	3"	--	--
FS	FLOOR SINK	12 X 12 FLOOR SINK WITH PERFORATED COVER AS NEEDED BY EQUIPMENT. COORDINATE WITH ARCHITECTURAL PLANS AND EQUIPMENT INSTALLER FOR EXACT POSITION. PROVIDE TRAP PRIMERS OR SEAL GUARD	3"	--	--

GENERAL PLUMBING SPECIFICATIONS

GENERAL: THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL PLUMBING. SUBMIT THREE (3) COPIES OF PLUMBING INSPECTION CERTIFICATES TO OWNER. PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY GOVERNING AUTHORITIES FOR WORK DONE UNDER THIS CONTRACT. PROVIDE AND INSTALL ALL SUPPORTS, BRACKETS, MATERIALS AND LABOR AS REQUIRED FOR A COMPLETE AND ACCEPTABLE PLUMBING SYSTEM. PLUMBING CONTRACTOR SHALL CLEAN ALL PLUMBING FIXTURES AFTER ALL CONSTRUCTION IS COMPLETE.

SOIL, WASTE AND VENT PIPING: WASTE PIPING AND VENT PIPING SHALL BE P.V.C. – D.W.C. SCHEDULE 40 PIPE. HOWEVER, COEXTRUDED PVC "FOAM CORE", ASTM F891, WILL NOT BE ALLOWED.

ALL PENETRATIONS THROUGH NON–COMBUSTIBLE CONSTRUCTION SHALL BE PACKED WITH NON–COMBUSTIBLE FIRE STOPPING MATERIAL.

GRADE WASTE AND VENT PIPING 1/4 INCH PER FOOT WHERE POSSIBLE BUT NOT LESS THAN 1/8 INCH PER FOOT, UNLESS SPECIFICALLY DIRECTED. MAINTAIN INVERTS WHERE INDICATED.

WATER PIPING: ALL WATER PIPING SHALL BE COPPER, SEE SPECIFICATIONS.

WATER HEATER. ALL FITTINGS SHALL BE SWEAT TYPE WROUGHT COPPER WITH WALL THICKNESS EQUAL TO PIPE WALL THICKNESS. ALL JOINTS SHALL BE MADE WITH 95–5 SOLDER OR SILVABRITE 100. NO SOLDER W/LEAD SHALL BE PERMITTED.

ALL ROUGHING–IN PIPING SHALL BE RUN CONCEALED. ALL EXPOSED WATER LINES, STOPS, TRAP AND WASTE PIPE AT THE FIXTURES SHALL BE CHROME PLATED BRASS, WHICH FOR THE MOST PART WILL BE FURNISHED WITH THE FIXTURES. CHROME PLATED ESCUTCHEON RINGS SHALL BE USED AT EACH POINT OF ENTRANCE OF CHROME PIPING INTO WALLS, FLOORS, OR CEILINGS. EXPOSED WORK SHALL BE UNIFORM IN HEIGHT AND LOCATION FOR EACH TYPE FIXTURE.

WATER PIPING UNDER GROUND OUTSIDE OF BUILDING SHALL BE AT LEAST 24 INCHES BELOW THE FINISHED GRADE SURFACE.

THERMAL INSULATION: ALL HOT AND COLD WATER PIPING INSIDE BUILDING AND IN CRAWL SPACE, ALL HOT WATER PIPING BELOW GRADE, AND COLD WATER PIPING BELOW GRADE WITHIN 3'–0" OF OUTSIDE SHALL BE INSULATED WITH 1" THICK "ARMAFLEX" OR IMCOA WITH SEALED JOINTS OR PREMOLDED FIBERGLASS WITH VAPOR BARRIER JACKET. IN LIEU OF INSULATING WATER PIPING IN HEATED WALLS PIPING MAY BE ENCASED IN BATT INSULATION WITHIN THE WALL OR FLOOR/CEILING.

WATER HEATERS: WATER HEATERS SHALL BE UL LISTED AND COMPLETE WITH ALL STANDARD FEATURES, FIVE (5) YEAR TANK WARRANTY, GLASS–LINED TANK, FOAM INSULATION ON THE TANK, ANODE ROD, AUTOMATIC TEMPERATURE CONTROL, AND AUTOMATIC HIGH–LIMIT SAFETY CUTOFF.

EACH WATER HEATER SHALL BE PROVIDED WITH AN ASME APPROVED PRESSURE AND TEMPERATURE RELIEF VALVE. UNITS NOT INSTALLED WITH VACUUM BREAKER ON COLD WATER SUPPLY LINE SHALL BE PROVIDED WITH AGA CERTIFIED VACUUM RELIEF VALVE PER ANSI Z21.22. A GATE VALVE SHALL BE INSTALLED ON SAME FLOOR AS UNIT AND NO FURTHER THAN 3 FEET ON THE COLD WATER SUPPLY.

EACH WATER HEATER AND ITS INSTALLATION SHALL COMPLY WITH THE LATEST ISSUE AND ALL ADDENDA THERETO OF THE STATE BOILER INSPECTION LAWS AND REGULATIONS. ALL WIRING AND CONTROLS ASSOCIATED WITH THE HEATERS SHALL BE U.L. APPROVED AND IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

EACH HEATER TANK SHALL BE FITTED WITH APPROVED "DIP" TUBE AND LABELED TO SHOW APPROVAL FOR INSTALLATION.

DISCHARGE RELIEF VALVE FROM EACH WATER HEATER SHALL BE PIPED FULL SIZE TO WITHIN SIX (6) INCHES OF THE FLOOR OVER A FLOOR DRAIN, DRIP PAN OR OTHER SAFE LOCATION. DISCHARGE PIPE SHALL BE SUPPORTED AND ANCHORED SO THAT IT WILL NOT PUT UNDUE STRAIN ON THE RELIEF VALVE BODY OR MOUNTING COUPLING.

SUBMITTAL: THE CONTRACTOR SHALL WITHIN (15) DAYS OF RECEIPT OF PROPERLY SIGNED CONTRACT SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL (5) COPIES OF A LIST OF SUPPLIES AND MANUFACTURER'S MATERIAL AND EQUIPMENT TO BE USED ON THIS PROJECT.

SUBSTITUTION OF MATERIALS AND/OR EQUIPMENT FOR THAT SPECIFIED WILL NOT BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO RECEIPT OF BIDS.

GUARANTEE: THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER STATING THE DAY THE GUARANTEE BEGINS AND ENDS.

WATER HEATER SHALL HAVE MINIMUM EF OF 0.917 AND ALLOW A SET POINT OF 90° TO 110° TO COMPLY WITH EFFICIENCY AND CONTROLS PROVISIONS OF IEC 504. PROVIDE HEAT TRAPS IF NOT INTERNALLY PROVIDED. IF EXTERNAL HEAT TRAPS ARE INSTALLED INSULATE PIPING PER IEC 504.5

NOTE: PLANS SHOULD NOT BE SCALED FOR DIMENSIONS. COORDINATE ALL ROUGH IN DIMENSIONS WITH EQUIPMENT TO BE INSTALLED AND DIMENSIONED DRAWINGS INCLUDING KITCHEN EQUIPMENT PLANS IF AVAILIBLE. CONTACT ENGINEER BEFORE CONSTRUCTION WITH ANY CONFLICTS.

PLUMBING GENERAL NOTES:

1. PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR COMPLETE AND PROPERLY FUNCTIONING PLUMBING SYSTEMS. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE.

2. WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF:
   A. INTERNATIONAL PLUMBING CODE
   B. ASPE
   C. UL
   D. ANSI
   E. ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES

3. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS, UNLESS DIMENSIONED.

4. ALL MATERIALS, EQUIPMENT AND DEVICES SHALL, AS A MINIMUM, MEET THE REQUIREMENTS OF UL WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE USED.

5. ALL ITEMS SHALL BE NEW, UNLESS NOTED OTHERWISE.

6. ALL MATERIALS AND EQUIPMENT SHALL BE CURRENT PRODUCTS BY MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS.

7. COORDINATE LOCATION OF PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.

8. INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN PRINTED INSTRUCTIONS AND RECOMMENDATIONS.

9. COORDINATE WITH AND OBTAIN PERMITS AND INSPECTIONS FROM AUTHORITY HAVING JURISDICTION AND INCLUDE ALL FEES IN BID.

10. PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTION AND ACCEPTANCE FROM AUTHORITY HAVING JURISDICTION.

11. ALL EQUIPMENT AND PIPE ABOVE CEILING SHALL BE SUPPORTED FROM BUILDING STRUCTURE ABOVE, UNO.

12. WHERE PIPES PENETRATE FIRE RATED BARRIERS (WALLS, FLOORS AND CEILINGS) SEAL OPENING AROUND PIPES AND DUCTWORK WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE BARRIER. PER INTERNATIONAL BUILDING CODE VOLUME 1, PENETRATIONS OF NONRATED WALLS, PARTITIONS AND FLOORS OF NONCOMBUSTIBLE CONSTRUCTION SHALL BE FIRE–STOPPED WITH NONCOMBUSTIBLE MATERIAL.

13. PROVIDE EXPANSION–DEFLECTION JOINTS WHERE PIPE CROSSES BUILDING EXPANSION OR SEISMIC JOINTS.

14. PRIOR TO BIDDING, THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL VISIT THE JOBSITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND SHALL INCLUDE IN HIS BID ALL LABOR, MATERIAL AND OPERATIONS REQUIRED FOR A COMPLETE JOB. (NOTIFY OWNER AND ENGINEER OF ANY DISCREPANCIES PRIOR TO BID.)

15. CLEANOUTS, LINE SIZE, UNO.

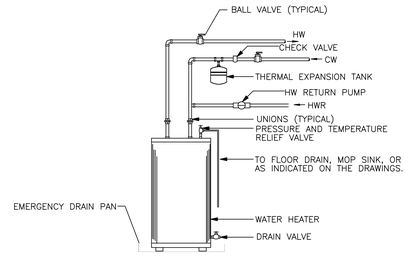
16. FLOOR DRAINS, LINE SIZE, UNO.

17. FLOOR DRAINS WITH SUBSCRIPT CO TO HAVE INTEGRAL CLEANOUT AND SHALL BE SIMILAR TO REGULAR FLOOR DRAIN SPECIFIED, UNO.

18. FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH TRAP PRIMERS OR ALTERNATE METHODS AS APPROVED BY AUTHORITY HAVING JURISDICTION.

PLUMBING LEGEND

- P-# FIXTURE NUMBER, SEE SCHEDULE
- WATER BALANCE/SHUTOFF VALVE
- HOT WATER TEMPERING VALVE
- FLOOR SINK
- VTR VENT THRU ROOF
- AAV AIR ADMITTANCE VALVE
- NEW COLD WATER PIPE
- NEW HOT WATER PIPE
- NEW WASTE PIPE
- NEW VENT PIPE
- GAS NEW GAS PIPE



WATER HEATER (GWH): STATE M/N SUF100 250NE, 100 GALLON SEALED COMBUSTION 250MBTU/H GAS WATER HEATER. VERIFY SITE GAS TYPE AVAILABILITY BEFORE ORDERING AND AGAIN BEFORE INSTALLATION. 120 VOLT, SINGLE PHASE, PROVIDE AND INSTALL 3" PVC/CPVC INSTAKE AND EXHAUST PIPING TO OUTSIDE PER MANUFACTURER'S RECOMMENDATIONS. 5 YEAR WARRANTY. FURNISH WITH A.S.M.E. APPROVED RELIEF VALVE, WATERGUARD EXPANSION TANK M/N ETC–2X, AND DRAIN PAN. CONNECTION SIZES: C=1 1/2", H=1 1/2". INCLUDE A RECIRCULATION PUMP.

A GAS WATER HEATER
SCALE: NONE

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SOUTH CAROLINA TOPSAIL ENGINEERING, PC NO. C03673 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 20344 2/25/26 STEVEN H. EVERHART

Additions & Renovations to:
GORETOWN FIRE STATION
Loris, South Carolina
For:
HORRY COUNTY GOVERNMENT

PROJECT NO: 22-136

DATE: December 31, 2025
Construction Documents

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TITLE:
PLUMBING SCHEDULES, NOTES & DETAILS

SHEET:
P100

16000

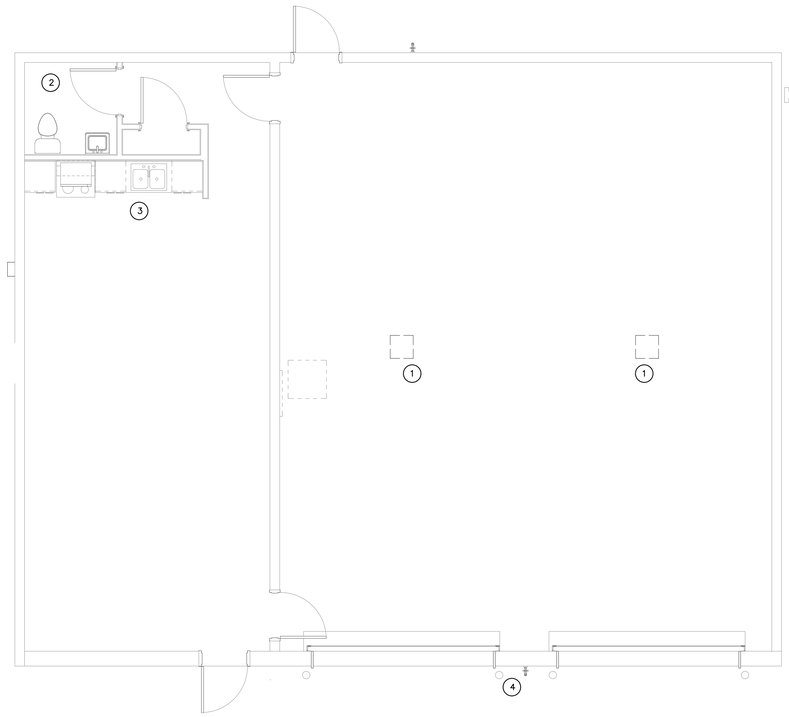
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GENERAL NOTES:

1. EXISTING CATCH BASIN TO BE REMOVED. CAP PIPING BELOW NEW SURFACES
2. EXISTING TOILET ROOM FIXTURES TO BE REMOVED. CAP ALL SERVICES BELOW NEW SURFACES.
3. EXISTING SINK TO BE REMOVED. CAP ALL SERVICES BELOW NEW SURFACES
4. EXISTING HOSE BIBB IN THIS LOCATION. REMOVE AND MODIFY AS NEEDED FOR NEW BRICK VENEER.

NOTE:

NEW WORK SHOWN AS ALL NEW PIPING. REUSE OF EXISTING, WHERE APPROPRIATE IS ACCEPTABLE. CAP ALL PIPING NOT REUSED APPROPRIATELY TO ABANDON IN PLACE OR REMOVE.



DEMO FLOOR PLAN – PLUMBING
SCALE: 1/4"=1'-0"

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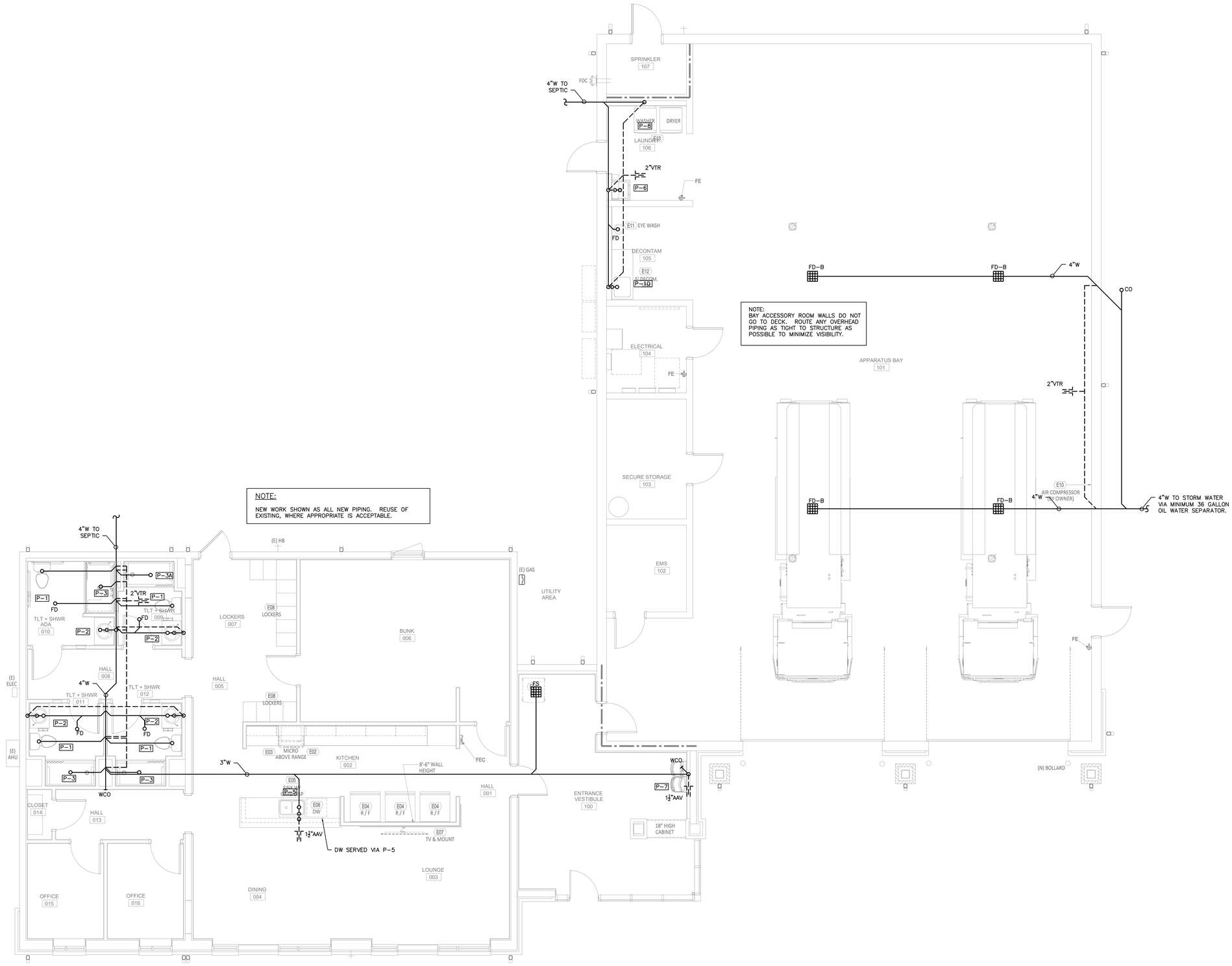
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NEW FLOOR PLAN – PLUMBING – WASTE

SCALE: 1/4"=1'-0"

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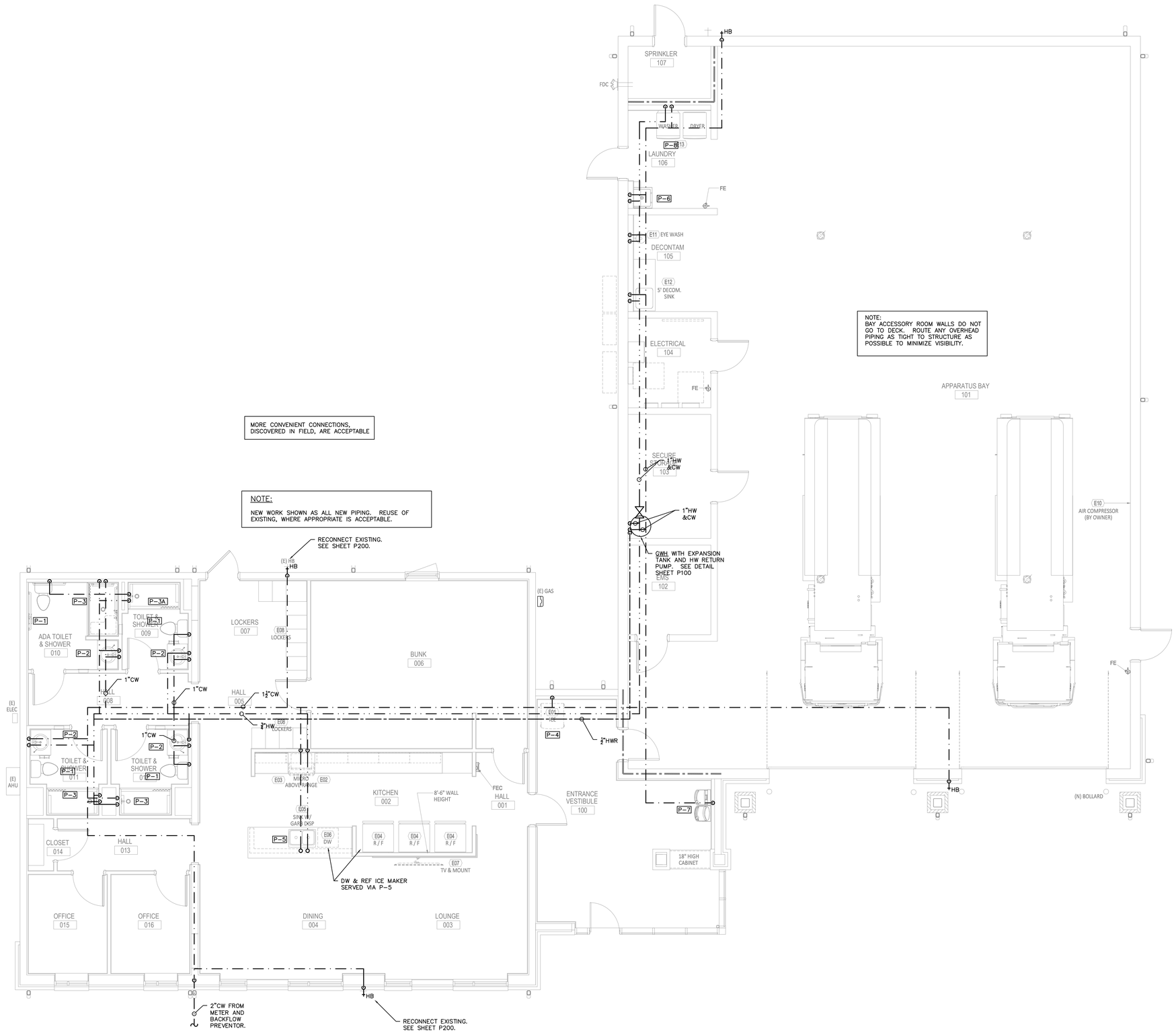
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REVISIONS:

TITLE:
NEW FLOOR PLAN PLUMBING - WASTE

SHEET:
P201



NEW FLOOR PLAN – PLUMBING – WATER

SCALE: 1/4"=1'-0"

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NEW FLOOR PLAN PLUMBING - WATER

SHEET:
P202

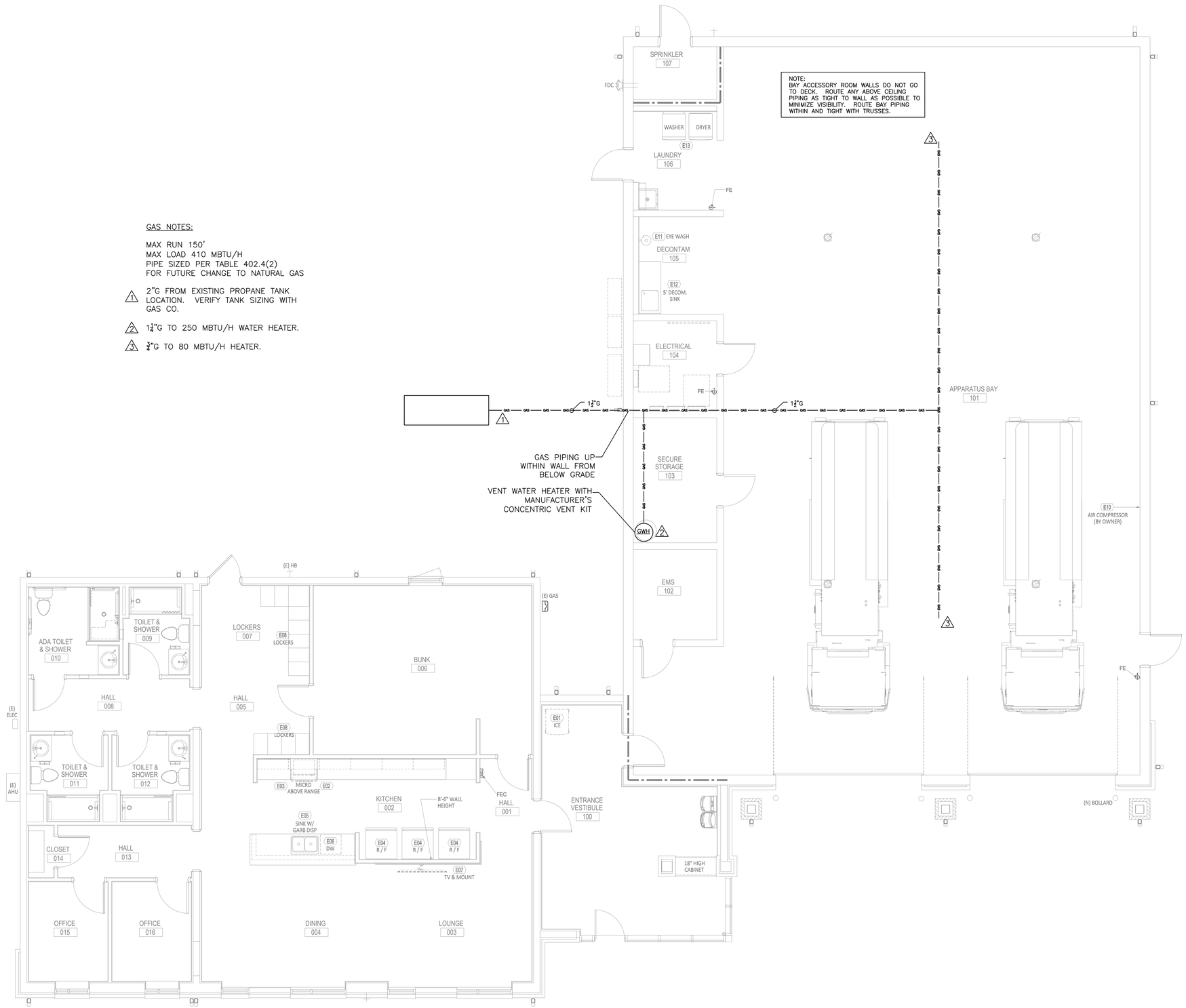
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GAS NOTES:

MAX RUN 150'
MAX LOAD 410 MBTU/H
PIPE SIZED PER TABLE 402.4(2)
FOR FUTURE CHANGE TO NATURAL GAS

1. 2"G FROM EXISTING PROPANE TANK LOCATION. VERIFY TANK SIZING WITH GAS CO.
2. 1¼"G TO 250 MBTU/H WATER HEATER.
3. ¾"G TO 80 MBTU/H HEATER.



NEW FLOOR PLAN – PLUMBING – GAS
SCALE: 1/4"=1'-0"

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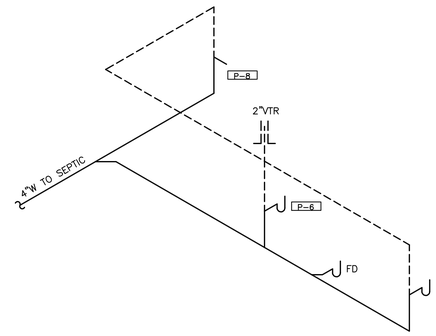
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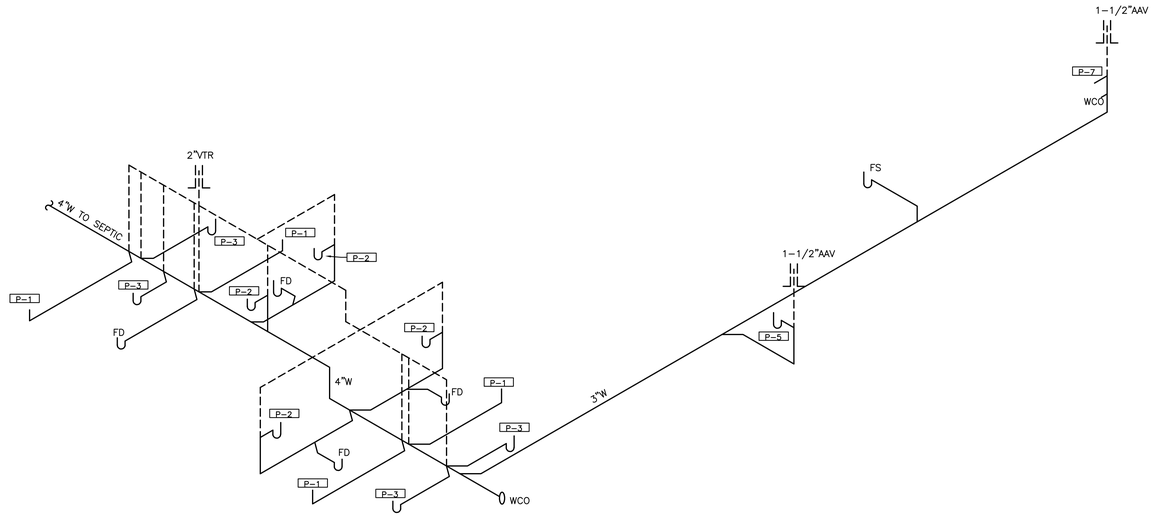
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TITLE:
NEW FLOOR PLAN PLUMBING - GAS

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P203

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PLUMBING – WASTE RISER

SCALE: NTS

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TITLE:
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P204

AIR DISTRIBUTION DEVICE SCHEDULE

TAG	SERVICE	NECK SIZE	OVERALL SIZE	MODEL NUMBER	DESCRIPTION & ACCESSORIES
A	SUPPLY	8"ø	12 X 6	610H	1, 2, 4, 5, 6
B	SUPPLY	8"ø	24 X 24	ASCD	1, 2, 3, 7, 8
C	SUPPLY	8"ø	12 X 12	ASCD	1, 2, 4, 7, 8
D	RETURN	14"ø	24 X 24	80	1, 2, 3, 5
F	RETURN	14"ø	20 X 20	620	1, 2, 4, 5

(1) MODEL BASED ON PRICE AIR DISTRIBUTION; METALAIRE OR APPROVED EQUAL ACCEPTABLE.
(2) ALUMINUM CONSTRUCTION, STANDARD WHITE FINISH.
(3) T-BAR LAY-IN PANEL
(4) SURFACE MOUNT BORDER.
(5) CFM SHOWN IN GRILLE TAG IS MAXIMUM POSSIBLE WITH EXHAUST AND OUTSIDE AIR AT 0.
(6) DOUBLE DEFLECTION GRILLE.
(7) SQUARE FACE. ROUND NECK DIFFUSER
(8) BUTTERFLY STYLE VOLUME CONTROL DAMPER.

NOTE: FLEXIBLE DUCTWORK SHALL MATCH DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.

HEATER SCHEDULE

UNIT NO.	TYPE	CFM	MANUFACTURER & MODEL	HEAT CAP.	POWER SUPPLY	DESCRIPTION & ACCESSORIES
H-1	GAS INFRA-RED	N/A	SPACE RAY LTU-80-L7 30' U TUBE PACKAGE	80 MBTU/H	120-1-60	3
H-2	ELECTRIC WALL	175	MARKEL E3312TSRPW	1 KW	120-1-60	1, 2, 4

(1) MARKEL MANUFACTURING CO.; OR EQUAL.
(2) HORIZONTAL AIR DELIVERY, NICKEL CHROMIUM RESISTANCE COIL
(3) 2 STAGE GAS TUBE INFRARED HEATER. MOUNT REFLECTOR AT 30° ANGLE IN TOWARDS BUILDING WHEN AGAINST WALL. COMMON SIDEWALL VENT PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE INTERLOCK TO DISABLE WHEN BAY DOORS ARE OPEN. VERIFY SITE GAS TYPE AVAILABILITY BEFORE ORDERING AND AGAIN BEFORE INSTALLATION.
(4) BUILT IN CONTACTORS AND CONTROL TRANSFORMER.

SPLIT SYSTEM HEAT PUMP SCHEDULE

UNIT NUMBER		AHU-1	AHU-2A, 2B	AHU-3
AREA SERVED				
MANUFACTURER		TRANE	MITSUBISHI	MITSUBISHI
MODEL NUMBER		TEM6A0C48	SLZ-KF09NA	SLZ-KF09NA
UNIT WEIGHT (LBS)		163	31	31
FAN	TOTAL AIR CFM	1600	335	335
	OUTSIDE AIR CFM	160	–	–
	FAN H.P.	3/4	–	–
	EXT. S.P. (IN. H2O)	0.9	–	–
	POWER SUPPLY	208/230/60/1	208/230/60/1	208/230/60/1
COOLING CAPACITY	TOTAL CAPACITY COOLING (BTUH)	49,700	9,200	9,200
	SENSIBLE CAPACITY COOLING (BTUH)	36,700	6,600	6,600
	ENTERING AIR TEMP.	80/67	80/67	80/67
HEATING CAPACITY	ENTERING AIR TEMP.	70 °F	70 °F	70 °F
	HIGH TEMPERATURE (BTUH) 47°F DB °	47,800	12,400	12,400
	LOW TEMPERATURE (BTUH) 17°F DB °	31,000	7,600	7,600
	AUXILARY COIL CAPACITY	7.21/9.6 KW @ 208/240	N/A	N/A
	POWER SUPPLY	208/230/60/1	208/230/60/1	208/230/60/1
	MINIMUM AMPACITY	52/59	1	1
	MAX. OVERCURRENT PROTECTION	60/60	VIA OUTDOOR UNIT	VIA OUTDOOR UNIT
AIR COOLED HEAT PUMP	UNIT NUMBER	HP-1	HP-2	HP-3
	MODEL NUMBER	4TWR7049	MXZ-2C20NA3	SUZ-KA09NA2
	UNIT WEIGHT	294	126	81
	ENTERING AIR TEMP.	95'F	95'F	95'F
	FAN TYPE	PROPELLER	PROPELLER	PROPELLER
	FAN H.P.	1/5	–	–
	COMPRESSOR	2 STAGE SCROLL	ECM SCROLL	ECM SCROLL
	POWER SUPPLY	208/230/60/1	208/230/60/1	208/230/60/1
	MINIMUM AMPACITY	28	17	9
	MAX. OVERCURRENT PROTECTION	45	20	15
ACCESSORIES		(1), (2), (3)	(1), (2), (3)	(1), (2), (3)

(1) PROVIDE WALL MOUNTED, PROGRAMMABLE ELECTRONIC THERMOSTAT WITH AUTO CHANGEOVER.
(2) MECHANICAL CONTRACTOR SHALL INSTALL DUCT DETECTOR IN RETURN AIR DUCT FOR AIR HANDLER SHUTDOWN. DETECTOR PROVIDED AND CONNECTED TO BUILDING FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
(3) PROVIDE STRIP HEAT SHUTOFF PER 503.2.4.1.1

GENERAL MECHANICAL SPECIFICATIONS

ALL WORK SHALL COMPLY WITH THE REQUIRMENTS OF THE 2021 INTERNATIONAL MECHANICAL CODE.

SHEET METAL WORK: THIS CONTRACTOR SHALL FURNISH ALL DUCTWORK AND ASSOCIATED SHEET METAL WORK AS CALLED FOR ON THE DRAWINGS AND REQUIRED FOR A COMPLETE DUCTED AIR DISTRIBUTION SYSTEM.

DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH BEST PRACTICES OF SHEET METAL WORK AND SMACNA STANDARDS.

ALL DUCTWORK SHALL BE GALVANIZED SHEET IRON THROUGHOUT EXCEPT WHERE OTHERWISE SHOWN AND FABRICATED IN ACCORDANCE WITH THE FOLLOWING TABLE (ALL DUCT SIZES ON CONTRACT DRAWINGS ARE SHEET METAL FABRICATION SIZES):

MAXIMUM DIMENSION OF DUCT	GAUGE U.S. STD.	TRANSVERSE JOINT	BRACING
UP TO 12"	26	DRIVE SLIPS 7'-10" CENTERS	NONE
13" TO 30"	24	DRIVE SLIPS 7'-10" CENTERS	1"X1"X1/8" ANGLES 4 FEET FROM JOINT

DUCTS 25 INCHES OR SMALLER IN MAXIMUM DIMENSION SHALL BE SUPPORTED WITH 1 INCH FLAT BAND HANGERS; DUCTS 25 INCHES AND LARGER SHALL BE SUPPORTED BY 3/4 INCH X 1-1/2 INCH ANGLE IRON AND ROUND ROD. SUPPORTS SHALL BE NOT MORE THAN 8 FEET ON CENTERS, PROPERLY FASTENED AND PLACED TO BUILDING STRUCTURES AND SHALL EXTEND AND BE RIVETED TO THE BOTTOM OF DUCTS.

UNLESS OTHERWISE SPECIFIED, FURNISH AND INSTALL ALL NECESSARY LINTELS, PROPERLY SIZED, SHEET METAL SLEEVES AND ESCUTCHEON COLLARS WHERE DUCTWORK RISES THROUGH FLOORS OR PASSES THROUGH WALLS OR CEILINGS.

FURNISH AND INSTALL FLEXIBLE COLLARS IN THE DUCTWORK CONNECTIONS TO AIR HANDLING FANS TO PREVENT NOISE TRANSMISSION BETWEEN SECTIONS.

ALL CHANGES IN DUCT DIRECTION SHALL BE LONG RADIUS ELBOWS OR SHALL BE FITTED WITH TURNING VANES. IT IS ACCEPTABLE TO CHANGE RECTANGULAR DUCTWORK TO THE EQUIVALENT SIZE IN ROUND PROVIDED THE CONTRACTOR COORDINATES ALL CLEARANCE ISSUES.

DUCT INSULATION:
ALL CONCEALED DUCTWORK SHALL BE INSULATED ON THE OUTSIDE WITH TWO INCH (2") THICK, 3/4 POUND DENSITY FIBERGLASS BLANKET INSULATION HAVING AN ALUMINUM FOIL-SCRIM VAPOR BARRIER JACKET.

EDGES OF INSULATION SHALL BE CUT STRAIGHT AND TRUE AND SHALL BE TIGHTLY BUTTED. THE VAPOR BARRIER JACKET SHALL OVERLAP THE BLANKET JOINT A MINIMUM OF THREE INCHES (3"). THE JACKET LAP SHALL BE FASTENED WITH MOISTURE RESISTANT ADHESIVE AND ALSO OUTWARD CLINCHING STAPLES SPACED TEN INCHES (10") C/C. THE VAPOR BARRIER EDGE AND STAPLES SHALL THEN BE COVERED WITH A THREE INCH (3") WIDE TAPE OF THE SAME MATERIAL AS THE JACKET AND SHALL BE FASTENED WITH MOISTURE RESISTANT ADHESIVE.

ALL CUTS, TEARS AND PENETRATIONS IN THE VAPOR BARRIER JACKET SHALL BE SEALED WITH JOINT TAPE. ALL EDGES OF INSULATING BLANKET SHALL BE SEALED FROM THE JACKET TO DUCT SURFACE WITH TAPE.

INSULATING BLANKET ON THE BOTTOM OF SURFACES IN EXCESS OF 24 INCHES WIDE SHALL BE SECURED AGAINST THE DUCT WITH ADHESIVE OVER THE ENTIRE AREA, MECHANICAL CLIPS ON 24 INCH CENTER OR BY WIRE TIES AROUND THE DUCT SPACED 24 INCHES C/C.

CONTRACTOR MAY USE FLEXIBLE DUCTWORK (MAXIMUM LENGTHS 15'-0") FOR FINAL CONNECTIONS TO DIFFUSERS/GRILLES. FLEXIBLE DUCTWORK SHALL BE CERTAFLEX 25 AS MANUFACTURED BY THE CERTAINTEED CORPORATION.

REGISTERS AND GRILLES: ALL REGISTERS AND GRILLES SHALL BE OF SIZE, STYLE AND CAPACITY CALLED FOR ON PLANS AND IN THE GRILLE SCHEDULE. PROVIDE RUBBER OR EXPANDED FOAM GASKETS COMPLETELY AROUND ALL REGISTER AND GRILLE FRAMES TO PREVENT AIR LEAKAGE BETWEEN GRILLE FRAME AND DUCT OR BETWEEN GRILLE FRAME AND SURROUNDING FINISHED SURFACE. ACCEPTABLE MGFS: PRICE, CARNES, METALAIR, KRUGER. REGISTERS AND GRILLES SHALL BE BALANCED TO CFM SHOWN AND RECORD MADE OF ACTUAL FLOW AND BALANCE METHOD.

OPERATING INSTRUCTIONS, CERTIFICATES AND WARRANTIES: THE ORIGINAL OF ALL INSPECTION CERTIFICATES SHALL BE DELIVERED TO THE OWNER AND ONE (1) COPY EACH TO THE ENGINEER PRIOR TO REQUEST FOR FINAL PAYMENT.

THREE (3) COPIES OF OPERATING AND MAINTENANCE INSTRUCTIONS AND MANUFACTURER'S WARRANTIES FOR ALL EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE PROVIDED TO THE OWNER PRIOR TO SUBMITTING REQUEST FOR FINAL PAYMENT.

PRIOR TO FINAL PAYMENT TO THE CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE TO TRAIN THE AUTHORIZED PERSONNEL ON HOW TO SERVICE, START-UP AND SHUT-DOWN THE VARIOUS SECTIONS OF THE SYSTEM. UPON COMPLETION OF THIS PHASE OF THE CONTRACT, THE CONTRACTOR SHALL SECURE A LETTER OF ACCEPTANCE FROM THE OWNER THAT HE IS SATISFIED WITH THE CONDITIONS STIPULATED HEREIN. UPON ACCEPTANCE OF THIS LETTER AND AT THE DISCRETION OF THE ENGINEER, THE FINAL PAYMENT WILL BE MADE.

THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE OF ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SYSTEM ACCEPTANCE.

THE WORK UNDER THIS CONTRACT WILL BE ACCEPTED ONLY AS AN ENTIRE SYSTEM UPON SATISFACTORY COMPLETION OF THE REQUIRED TESTS. NO PARTIAL ACCEPTANCE OF ANY PART OR PORTION OF APPARATUS WILL BE MADE.

INSTALL AND CONNECT ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DO ALL WORK IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE AS JUDGED BY THE ENGINEER.

ALL EQUIPMENT AND PIPING SHALL BE SO INSTALLED THAT NO OBJECTIONABLE NOISES FROM EQUIPMENT, PIPING OR AIR DISTRIBUTION ARE AUDIBLE IN THE FINISHED AREAS.

GUARANTEE: THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR ONE (1) YEAR FOLLOWING FINAL INSPECTION AND ACCEPTANCE OF THE BUILDING BY THE ENGINEER AND OWNER. THIS APPLIES TO ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT, REGARDLESS OF SOURCE.

THE ONE (1) YEAR GUARANTEE PERIOD WILL START ON THE DAY OF FINAL INSPECTION AND ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A LETTER WITH TWO (2) COPIES STATING THE BEGINNING AND ENDING DATES OF THE GUARANTEE BASED ON THE AFOREMENTIONED STARTING DATES.

EXTENDED GUARANTEE: PROVIDE AN ADDITIONAL FOUR (4) YEAR GUARANTEE ON ALL COMPRESSORS BEYOND THE ABOVE MENTIONED ONE (1) YEAR GUARANTEE PERIOD.

EXHAUST FAN SCHEDULE

TAG	CFM	RPM	S.P. IN. W.G.	WATTS/HP	SONES	ELECTRIC	MANUFACTURER MODEL NUMBER	DESCRIPTION & ACCESSORIES
EF-1	75	700	0.25	50 WATTS	3.0	120-1-60	GREENHECK SP-B90	1, 2, 3
EF-2	150	1050	.5	129 WATTS	4.5	120-1-60	GREENHECK SP-B150	1, 2, 3, 5
EF-3	12,000	518	0.25	1 HP	16.1	230-1-60	GREENHECK SBE2L36-10	4

(1) CABINET CEILING FAN, DIRECT DRIVE, CENTRIFUGAL, SPRING LOADED ALUMINUM BACKDRAFT DAMPER.
(2) ALUMINUM, WHITE ENAMEL CEILING GRILLE.
(3) ALUMINUM HOODED WALL CAP WITH BUILT-IN BIRDSCREEN AND DAMPER.
(4) SIDEWALL PROPELLER EXHAUST FAN WITH MANUFACTURER'S WALL BOX INCLUDING BACKDRAFT DAMPER AND ALL REQUIRED GUARDS
(5) TO BE THERMOSTATICALLY CONTROLLED.

MECHANICAL LEGEND

- NEW DUCTWORK
- NEW SUPPLY GRILLE/DIFFUSER
- NEW RETURN GRILLE/DIFFUSER
- TS — THERMOSTAT
- CFM TAG
- EF-# — EXHAUST FAN
- CONDENSATE/REFIRGERANT PIPE
- AIRFLOW DIRECTION
- CONNECT NEW TO EXISTING
- FD — FIRE DAMPER

DOYLE ARCHITECTURE, LLC
315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

SOUTH CAROLINA — TOPSAIL ENGINEERING, PC — NO. C03673 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — SEAL 20344 — 2/25/26 — STEVEN H. EVERHART, P.E.

Additions & Renovations to:
GORETOWN FIRE STATION
Loris, South Carolina
For:
HORRY COUNTY GOVERNMENT

PROJECT NO: 22-136

DATE: December 31, 2025
Construction Documents

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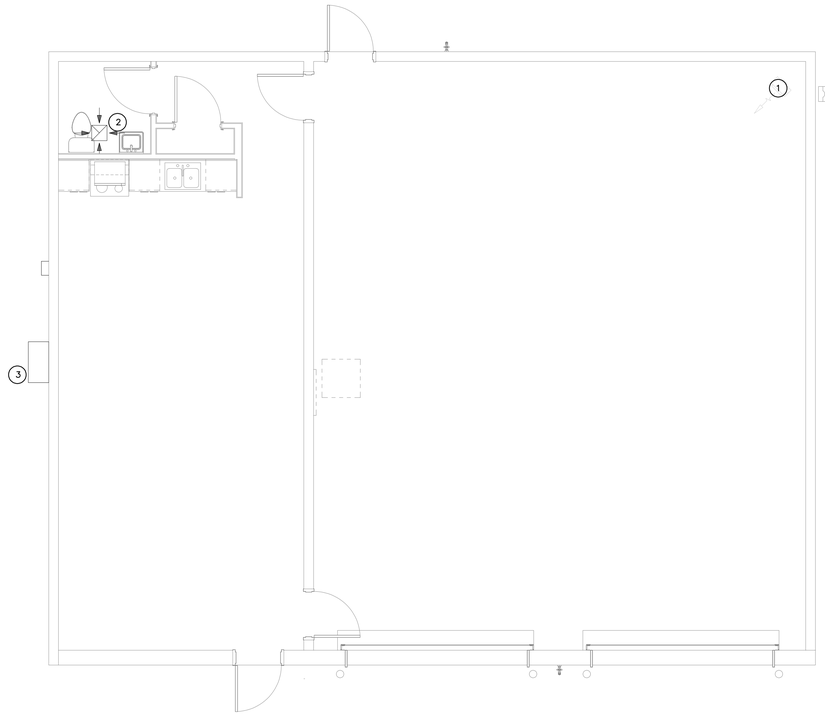
TITLE:
MECHANICAL SCHEDULES, NOTES & DETAILS

16000
TOPSAIL ENGINEERING, PC
P.O. BOX 367
HAMPSTEAD, NC 28443
TEL.(910) 270-3747
office@topsailengineering.com

SHEET:
M100

GENERAL NOTES:

1. REMOVE EXISTING GAS UNIT HEATER IN THIS LOCATION AND ALL ASSOCIATED ITEMS
2. REMOVED EXISTING EXHAUST FAN IN THIS LOCATION AND ALL ASSOCIATED ITEMS
3. REMOVE EXISTING WALL MOUNT PACKAGED UNIT IN THIS LOCATION AND ALL ASSOCIATED ITEMS



DEMO FLOOR PLAN – MECHANICAL
SCALE: 1/4"=1'-0"

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315 MAIN STREET, SUITE 2B
CONWAY, SC 29526
843.455.6879

SOUTH CAROLINA
TOPSAIL ENGINEERING, PC
NO. C03673
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED
PROFESSIONAL
ENGINEER
SEAL
20344
2/25/26
STEVEN H. EVERHART, JR.

Additions & Renovations to:
GORETOWN FIRE STATION
Loris, South Carolina
For:
HORRY COUNTY GOVERNMENT

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REVISIONS:

TITLE:
DEMO FLOOR PLAN MECHANICAL

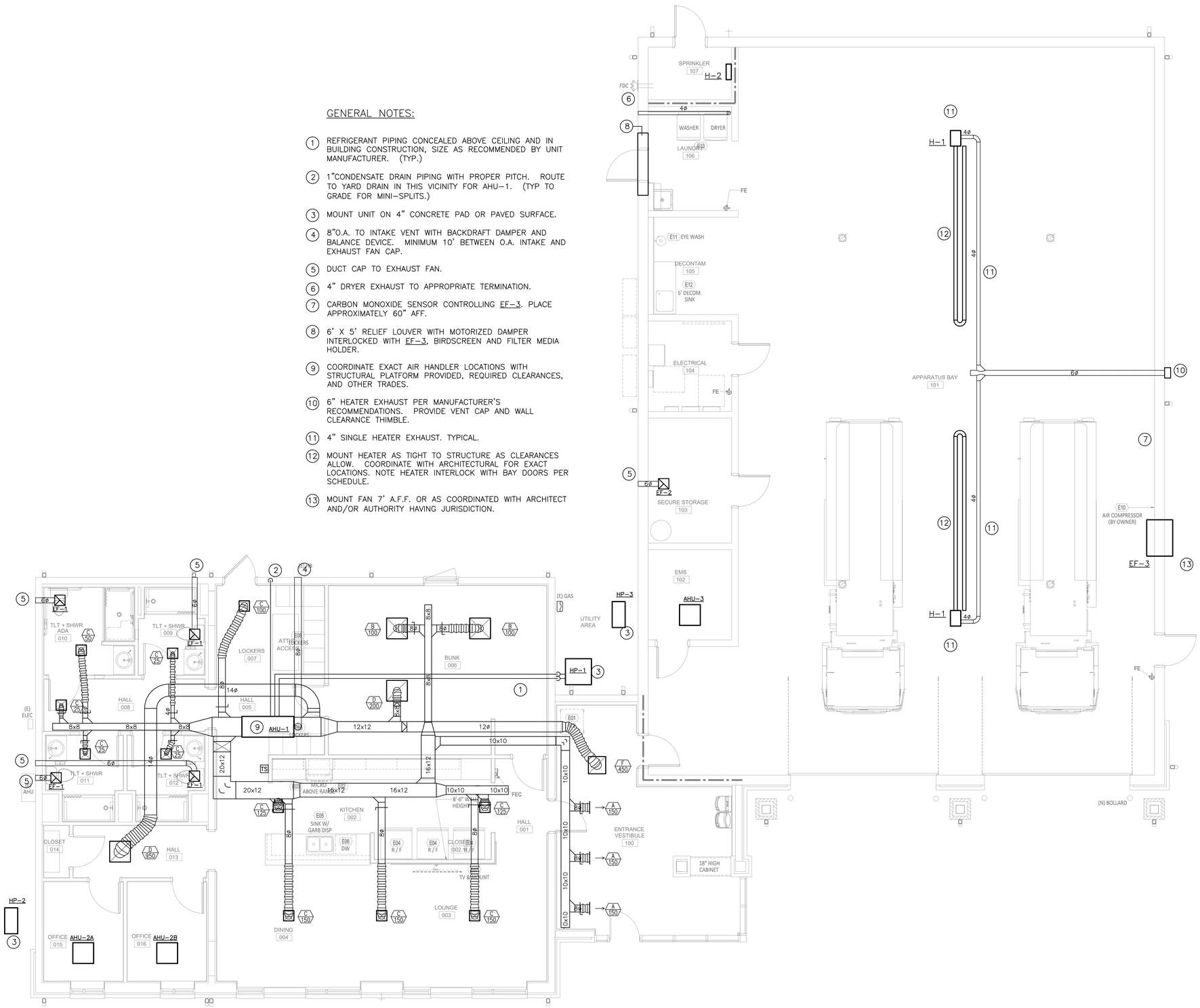
SHEET:
M200

16000

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P.O. BOX 367
HAMPSTEAD, NC 28443
TEL.(910) 270-3747
office@topsailengineering.com

GENERAL NOTES:

1. REFRIGERANT PIPING CONCEALED ABOVE CEILING AND IN BUILDING CONSTRUCTION, SIZE AS RECOMMENDED BY UNIT MANUFACTURER. (TYP.)
2. 1"CONDENSATE DRAIN PIPING WITH PROPER PITCH. ROUTE TO YARD DRAIN IN THIS VICINITY FOR AHU–1. (TYP TO GRADE FOR MINI–SPLITS.)
3. MOUNT UNIT ON 4" CONCRETE PAD OR PAVED SURFACE.
4. 8"O.A. TO INTAKE VENT WITH BACKDRAFT DAMPER AND BALANCE DEVICE. MINIMUM 10' BETWEEN O.A. INTAKE AND EXHAUST FAN CAP.
5. DUCT CAP TO EXHAUST FAN.
6. 4" DRYER EXHAUST TO APPROPRIATE TERMINATION.
7. CARBON MONOXIDE SENSOR CONTROLLING EF–3. PLACE APPROXIMATELY 60" AFF.
8. 6' X 5' RELIEF LOUVER WITH MOTORIZED DAMPER INTERLOCKED WITH EF–3, BIRDSCREEN AND FILTER MEDIA HOLDER.
9. COORDINATE EXACT AIR HANDLER LOCATIONS WITH STRUCTURAL PLATFORM PROVIDED, REQUIRED CLEARANCES, AND OTHER TRADES.
10. 6" HEATER EXHAUST PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE VENT CAP AND WALL CLEARANCE THIMBLE.
11. 4" SINGLE HEATER EXHAUST. TYPICAL.
12. MOUNT HEATER AS TIGHT TO STRUCTURE AS CLEARANCES ALLOW. COORDINATE WITH ARCHITECTURAL FOR EXACT LOCATIONS. NOTE HEATER INTERLOCK WITH BAY DOORS PER SCHEDULE.
13. MOUNT FAN 7' A.F.F. OR AS COORDINATED WITH ARCHITECT AND/OR AUTHORITY HAVING JURISDICTION.



NEW FLOOR PLAN – MECHANICAL

SCALE: 1/4"=1'–0"

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315 MAIN STREET, SUITE 2B
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843.455.6879

SOUTH CAROLINA — TOPSAIL ENGINEERING, PC — NO. C03673 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — SEAL 20344 2/25/26 — STEVEN H. EVERHART, PE

Additions & Renovations to:
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Loris, South Carolina
For:
HORRY COUNTY GOVERNMENT

PROJECT NO: 22-136

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REVISIONS:

TITLE:
NEW FLOOR PLAN MECHANICAL

SHEET:
M201

16000

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P1

MOUNTING SURFACE
FED FROM ATS
NOTE

VOLTS 240/120V 2P 3W
BUS AMPS 200
NEUTRAL 100%

AIC 10,000
MAIN BRKR 200
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B
1	15/2	HP3	0.9		2	20/1	EWC *	0.6	
3	|			0.9	4	20/1	RECS ENTRY VEST		0.72
5	15/1	GAS HTR- BAYS	0.36		6	20/1	VENDING * (FUTURE)	1.2	
7	15/1	GAS HTR- BAYS		0.36	8	20/1	ICE MAKER *		1.2
9	15/1	GAS WTR HTR	0.2		10	15/1	UNIT HEATER RISER RM	1	
11	20/1	OD1		1.18	12	20/1	SITE LIGHTING		0.82
13	20/1	OD2	1.18		14	45/2	HP1	2.7	
15	20/1	QUAD TEL BD		0.36	16	|			2.7
17	20/1	QUAD TEL BD	0.36		18	20/1	BLDG MOUNTED EXT LTG	0.194	
19	20/1	RECS EMS OFFICE		1.08	20	20/1	SPARE		0
21	20/1	SPARE *	0		22	20/1	SPARE	0	
23	20/1	SPARE *		0	24	20/1	RECS,ELEC,STO,EXT,RECIRC P		0.84
25	20/1	SPARE	0		26	20/1	GEN BATT CHARGER	1	
27	20/1	SPARE		0	28	20/1	REC AT GEN		0.18
29	20/1	SPARE	0		30	20/1	LTG TRUCK BAYS	1.05	
31	20/1	SPARE		0	32	20/1	LTG RMS 102-107		0.265
33	20/1	FIRE ALARM PANEL **	0.5		34	20/1	TRUCK BAY LIGHTS	0.84	
35	20/1	SPARE		0	36	20/1	SPARE		0
37	-/1	SPACE	0		38	-/1	SPACE	0	
39	-/1	SPACE		0	40	-/1	SPACE		0
							TOTAL CONNECTED KVA BY PHASE	12.1	10.6

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	3.17	3.96	(125%)	KITCHEN EQUIPMENT	2.4	2.4	(100%)
LARGEST MOTOR	5.4	1.35	(25%)	NONCONTINUOUS	1.7	1.7	(100%)
MOTORS	2.65	2.65	(100%)	HEATING	8.92	8.92	(100%)
RECEPTACLES	3.84	3.84	(50%>10)	COOLING	7.2	0	(0%)
				TOTAL LOAD		24.8	
				BALANCED LOAD		103 A	

* GFCI BREAKER ** PROVIDE HANDLE LOCK

P2

MOUNTING SURFACE
FED FROM ATS
NOTE

VOLTS 240/120V 2P 3W
BUS AMPS 200
NEUTRAL 100%

AIC 10,000
MAIN BRKR 200
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B
1	15/2	EF3	0.96		2	20/1	CORD REEL-BAYS *	0.72	
3	|			0.96	4	20/1	CORD REEL-BAYS *		0.72
5	20/1	LOUVER	0.1		6	20/1	CORD REEL-BAYS *	0.72	
7	15/1	EF2		0.2	8	20/1	CORD REEL-BAYS *		0.72
9	20/1	REC RISER RM	0.18		10	20/1	CORD REEL-BAYS *	0.72	
11	20/1	SPARE		0	12	20/1	AMBULANCE EQUIP		2.4
13	30/2	DRYER *	2.75		14	20/1	WASHER	1.2	
15	|			2.75	16	20/1	RECS TRUCK BAYS		0.72
17	60/2	AIR COMPRESSOR	3.36		18	20/1	RECS TRUCK BAYS	0.54	
19	|			3.36	20	20/1	RECS TRUCK BAYS		0.72
21	20/1	SPARE	0		22	20/1	RECS TRUCK BAYS	0.72	
23	20/1	SPARE		0	24	20/1	SPARE *		0
25	20/1	SPARE	0		26	20/1	SPARE *	0	
27	20/1	SPARE		0	28	20/1	SPARE		0
29	20/1	SPARE	0		30	20/1	SPARE	0	
31	20/1	SPARE		0	32	20/1	SPARE		0
33	20/1	SPARE	0		34	20/1	SPARE	0	
35	20/1	SPARE		0	36	20/1	SPARE		0
37	-/1	SPACE	0		38	-/1	SPACE	0	
39	-/1	SPACE		0	40	-/1	SPACE		0
							TOTAL CONNECTED KVA BY PHASE	12	12.6

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LARGEST MOTOR	6.72	1.68	(25%)	RECEPTACLES	6.48	6.48	(50%>10)
MOTORS	8.94	8.94	(100%)	NONCONTINUOUS	9.1	9.1	(100%)
				TOTAL LOAD		26.2	
				BALANCED LOAD		109 A	

* GFCI BREAKER

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

Building Area ● Space by Space ____

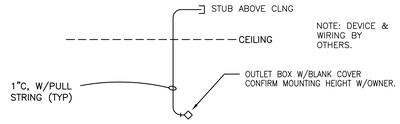
Lighting schedule
lamp type required in fixture See Fixture Schedule
number of lamps in fixture See Fixture Schedule
ballast type used in the fixture See Fixture Schedule
number of ballasts in fixture See Fixture Schedule
total wattage per fixture See Fixture Schedule

total interior wattage specified vs allowed 3388/5585
total exterior wattage specified vs allowed 924/1883

Equipment schedules with motors (not used for mechanical systems)
motor horsepower N/A
number of phases N/A
minimum efficiency N/A
motor type N/A
#of poles N/A

DESIGNER STATEMENT:
To the best of my knowledge and belief, the design of this building complies with the requirements of Chapter 5 of the 2009 International Energy Conservation Code.

SIGNED:
NAME: Gregory McDowell
TITLE: Professional Engineer



ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	CONDUIT
	CONDUIT UNDERFFLOOR OR UNDERGROUND
	ARROW INDICATES HOMERUN, TICKMARKS: NEUTRAL,PHASE,GND.
	POWER PANEL
	DATA/COMM OUTLET
J	JUNCTION BOX
	DISCONNECT SWITCH; FUSED; NONFUSED
	STARTER
	PUSH BUTTON CONTROL
S_m	MOTOR TOGGLE SWITCH
	MOTOR
	EXISTING OR BY OTHERS
	LIGHT FIXTURE
AFF	ABOVE FINISHED FLOOR
	DUPLEX RECEPT , ABOVE COUNTER
WP, GFI	WEATHERPROOF , GROUND FAULT
	QUAD-PLEX RECEPTACLE
	SPECIAL PURPOSE OUTLET AS NOTED
	DUPLEX RECEPT AT TV HEIGHT
	CATV OUTLET AT 5'-0" AFF
B	DOOR BELL BUTTON, NOTE 2
D	DOOR BELL CHIME, NOTE 2
CR	CARD READER. NOTE 3.
PA	PUBLIC ADDRESS INTERCOM SYSTEM
SP	SPEAKER OUTLET, FLUSH CEILING MOUNTED WITH BAFFLE, BLACK BOX AND MOUNTING ACCESSORIES.
V	VOLUME CONTROL OUTLET, FLUSH MOUNTED
	DOOR CONTACT
J CR	JUNCTION BOX AT STRUCTURE FOR OWNER'S CORD REEL.

1. SEE LIGHTING PLAN FOR ADDITIONAL SYMBOLS
2. PROVIDE LV XFMRS AS REQUIRED. CONNECT TO NEAREST REC CKT. PROVIDE LV WIRING AS REQUIRED. SUBMIT FOR OWNER APPROVAL.
3. PROVIDE BOX AT 48" AFF AND CONDUIT STUB FOR ACCESS CONTROL BY OWNER.

P3

MOUNTING FLUSH
FED FROM CBP3
NOTE

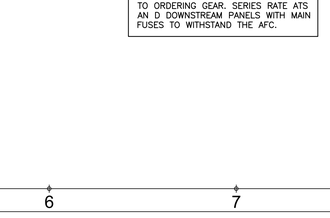
VOLTS 240/120V 2P 3W
BUS AMPS 200
NEUTRAL 100%

AIC 10,000
MAIN MLO
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B
1	60/2	AHU1	5.9		2	20/1	LTG ENT,KITCH,DINING	0.565	
3	|			5.9	4	20/1	LTG BUNK,LOCKR,TLT,OFF		0.8
5	20/2	HP2	1.65		6	40/2	RANGE *	4	
7	|			1.65	8	|		4
9	20/1	DISHWASHER	1.2		10	20/1	REFRIGERATOR	1.2	
11	20/1	RECS TLTS,OUTSIDE		0.54	12	20/1	REFRIGERATOR		1.2
13	20/1	RECS TLTS,HALL	0.54		14	20/1	MICROWAVE	1.5	
15	20/1	RECS OFF 014,OUTSIDE		1.08	16	20/1	KITCHEN CKT		1.5
17	20/1	RECS OFF 015,HALL	1.08		18	20/1	KITCHEN CKT	1.5	
19	20/1	RECS DINING		0.36	20	20/1	KITCHEN ISLAND CKT		1.5
21	20/1	RECS LOUNGE	0.9		22	20/1	USB RECS BUNKS	1.08	
23	20/1	RECS BUNK RM,LOCKERS		0.9	24	20/1	USB RECS BUNKS		1.08
25	20/1	SPARE	0		26	20/1	SPARE	0	
27	20/1	REFRIGERATOR		1.2	28	20/1	SPARE		0
29	20/1	SPARE	0		30	20/1	SPARE	0	
31	20/1	SPARE		0	32	20/1	SPARE		0
33	20/1	SPARE	0		34	20/1	SPARE	0	
35	20/1	SPARE		0	36	20/1	SPARE		0
37	-/1	SPACE	0		38	-/1	SPACE	0	
39	-/1	SPACE		0	40	-/1	SPACE		0
							TOTAL CONNECTED KVA BY PHASE	21.1	21.7
							TOTAL CONNECTED AMPS BY PHASE	176	181

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.37	1.71	(125%)	KITCHEN EQUIPMENT	18.8	12.2	(65%)
LARGEST MOTOR	3.3	0.825	(25%)	HEATING	15.1	15.1	(100%)
RECEPTACLES	7.56	7.56	(50%>10)	COOLING	5.5	0	(0%)
				TOTAL LOAD		37.4	
				BALANCED LOAD		156 A	

* GFCI BREAKER



TYPICAL DATA/COMM OUTLET
NTS

TYPICAL VIDEO OUTLET
NTS

TELEPHONE SERVICE DETAIL
NTS

POWER RISER
NTS

NOTE: EC SHALL LABEL THE AVAILABLE FAULT CURRENT (AFC) AT POINT OF DELIVERY PER NEC 110.24A. OBTAIN FROM SERVING UTILITY PRIOR TO ORDERING GEAR. SERIES RATE ATS AN D DOWNSTREAM PANELS WITH MAIN FUSES TO WITHSTAND THE AFC.

DOYLE ARCHITECTURE, LLC
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843.455.6879

SOUTH CAROLINA — TOPSAIL ENGINEERING, PC — NO. C03673 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — SEAL 15694 — 2/25/26 — GREGORY L. MCDOWELL

Additions & Renovations to:
GORETOWN FIRE STATION
Loris, South Carolina
For:
HORRY COUNTY GOVERNMENT

PROJECT NO: 22-136

DATE: December 31, 2025
Construction Documents

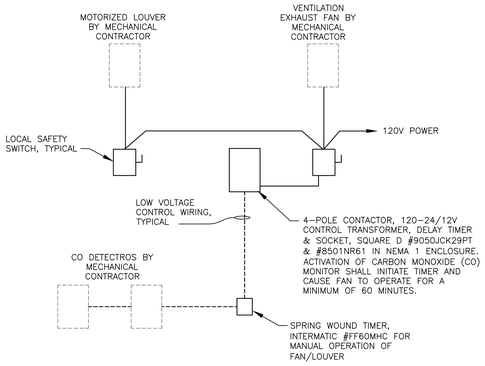
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REVISIONS:

TITLE:
ELECTRICAL SCHEDULES, NOTES & DETAILS

SHEET:
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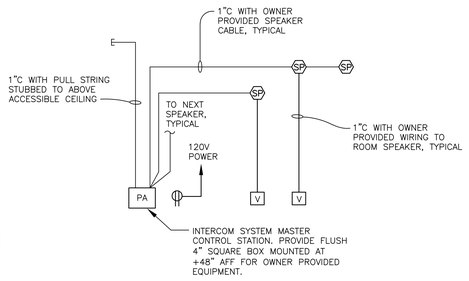


NOTES:

1. COORDINATE EQUIPMENT LOCATIONS AND INSTALLATION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO EQUIPMENT ORDER.
2. LOW VOLTAGE WIRING SHALL BE #18 AWG IN 1/2" CONDUIT
3. ALTERNATE APPROVIDE MANUFACTURERS ARE SUBJECT TO COMPLIANCE WITH REQUIREMENTS AND SHALL BE SUBMITTED FOR REVIEW.

CO DETECTOR WIRING DETAIL

NTS



NOTES:

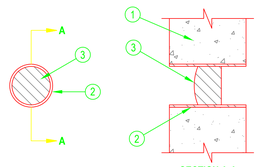
1. VERIFY MASTER CONTROL STATION LOCATION WITH OWNER PRIOR TO ROUGH-IN.

INTERCOM SYSTEM DETAIL

NTS

System No. W-J-0010

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — 0 and 1-3/4 Hr (See Item 2)	FT Ratings — 0 and 1-3/4 Hr (See Item 2)
	FH Rating — 2 Hr
	FTH Ratings — 0 and 1-3/4 Hr (See Item 2)



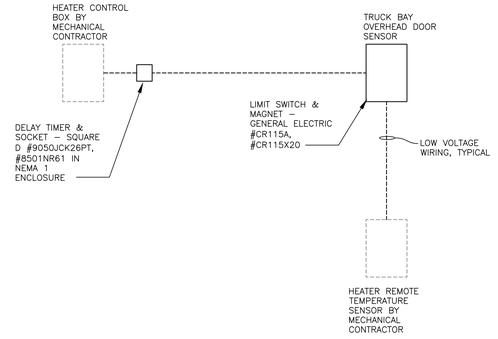
SECTION A-A

1. Wall Assembly — Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*, Diam of opening is nom 1-1/2, 2, 3 or 4 in. (38, 51, 76 or 102 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve — (Optional) Nom 1-1/2, 2, 3 or 4 in. (38, 51, 76 or 102 mm) diam Schedule 5 (or heavier) steel pipe sleeve cast or grouted into wall assembly. Sleeve to be flush with wall surfaces or may extend up to 12 in. (305 mm) beyond either or both wall surfaces. Where sleeve extends more than 6 in. (152 mm) beyond the surface of the wall it shall be rigidly supported. When wall is constructed of concrete blocks, steel sleeve is required.
   The T, FT and FTH Ratings of the firestop system are 0 Hr when sleeve extends beyond one or both wall surfaces. The T, FT and FTH Ratings are 1-3/4 Hr when the sleeve is flush with both wall surfaces or when sleeve is not provided.
3. Fill, Void or Cavity Materials* - Plug — Nom 2, 2.5 or 4 in. (51, 63 or 102 mm) plug sized for the steel sleeve/wall opening per Table below friction-fitted within the sleeve/wall opening and centered within thickness of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 658T Firestop Plug 2.5 or 4 in. or CFS-PL Firestop Plug 2 or 4 in.

Sleeve/Opening Diam	Nom Plug Size, in. (mm)	
in. (mm)	CP 658T	CFS-PL
1-1/2 (38)	2.5 (63) **	2 (51) **
2 (51)	2.5 (63) **	2 (51)
3 (76)	4 (102) **	4 (102) **
4 (102)	4 (102)	4 (102)

** Cut wedge from plug to fit sleeve/opening size. See Hilti Installation Instructions for specific size of wedge cuts required.

*Bearing the UL Classification Mark



NOTES:

1. TRUCK BAY OVERHEAD DOOR SENSOR SHALL BE LOCATED NEAR END OF DOOR TRAVEL. TWO MINUTES AFTER RELAY HAS BEEN ACTIVATED, BAY UNIT HEATERS SHALL SHUT DOWN. PROVIDE SUBMITTAL FOR REVIEW PRIOR TO INSTALLATION.
2. COORDINATE DEVICE LOCATIONS AND INSTALLATION REQUIREMENTS WITH MECHANICAL CONTRACTOR AND OVERHEAD DOOR AND UNIT HEATER SUPPLIERS PRIOR TO EQUIPMENT ORDER.
3. LOW VOLTAGE CONTROL WIRING SHALL BE #18 AWG IN 1/2" CONDUIT.
4. ALTERNATE APPROVED MANUFACTURERS ARE SUBJECT TO COMPLIANCE WITH REQUIREMENTS AND SHALL BE SUBMITTED FOR REVIEW.

OVERHEAD DOOR/HEATER WIRING DETAIL

NTS

EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT TAG	EQUIPMENT DESCRIPTION	SYMBOL	VOLTS	AMPS	KVA	CIRCUIT	WIRE CALLOUT	MCA	MOCP	DISCONNECT	DISCONNECT DESCRIPTION
ACOMP	AIR COMPRESSOR		240V 2P 2W	28	6.72	P2-17,19	3/4"C,2#4,#10G	50	50	FUSED	240/60/2 FUSE 50A VERIFY
AHU1	AHU1		240V 2P 2W	49.17	11.8	P3-1,3	3/4"C,2#4,#10G	59	60	FUSED	240/60/2
EF2	EF2		120V 1P 2W	1.67	0.2	P2-7	1/2"C,1#12,#12N,#12G	15	15	TOGGLE SWITCH	120V, 15A TOGGLE DISC SW
EF3	EF3		240V 2P 2W	8	1.92	P2-1,3	1/2"C,2#12,#12G	10	15	COMBINATION MOTOR STARTER	COMBINATION STARTER FOR 230/1, 1 HP
GWH	GAS WTR HTR		120V 1P 2W	1.67	0.2	P1-9	1/2"C,1#12,#12N,#12G	15	15	JUNCTION BOX	
H1A	GAS HTR- BAYS		120V 1P 2W	3	0.36	P1-5	1/2"C,1#12,#12N,#12G	15	15	TOGGLE SWITCH	120V, 15A TOGGLE DISC SW
H1B	GAS HTR- BAYS		120V 1P 2W	3	0.36	P1-7	1/2"C,1#12,#12N,#12G	15	15	TOGGLE SWITCH	120V, 15A TOGGLE DISC SW
H2	UNIT HEATER RISER RM		120V 1P 2W	8.33	1	P1-10	1/2"C,1#12,#12N,#12G	15	15	TOGGLE SWITCH	120V, 15A TOGGLE DISC SW
HP1	HP1		240V 2P 2W	22.5	5.4	P1-14,16	3/4"C,2#6,#10G	28	45	FUSED	240/60/2/3R
HP2	HP2		240V 2P 2W	13.75	3.3	P3-5,7	1/2"C,2#12,#12G	17	20	FUSED	240/30/2/3R
HP3	HP3		240V 2P 2W	7.5	1.8	P1-1,3	1/2"C,2#12,#12G	9	15	FUSED	240/30/2/3R
OD1	OD1		120V 1P 2W	9.8	1.18	P1-11	1/2"C,1#12,#12N,#12G	20	20	TOGGLE SWITCH	120V, 20A TOGGLE DISC SW
OD2	OD2		120V 1P 2W	9.8	1.18	P1-13	1/2"C,1#12,#12N,#12G	20	20	TOGGLE SWITCH	120V, 20A TOGGLE DISC SW

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SOUTH CAROLINA — TOPSAIL ENGINEERING, PC — NO. C03673 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — SEAL 15694 — 2/25/26 — GREGORY L. MCDONELL

Additions & Renovations to:
GORETOWN FIRE STATION
Loris, South Carolina
For:
HORRY COUNTY GOVERNMENT

PROJECT NO: 22-136

DATE: December 31, 2025
Construction Documents

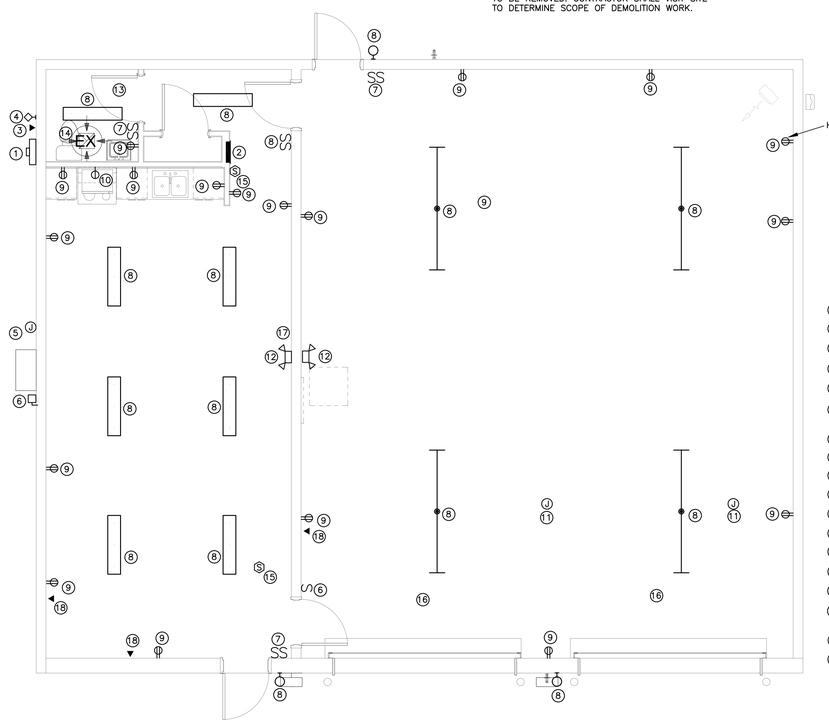
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REVISIONS:

TITLE:
ELECTRICAL SCHEDULES, NOTES & DETAILS

SHEET:
E101

NOTE: ELECTRICAL SHOWN ON THIS PLAN IS BASED ON ENGINEERING FIELD NOTES. THIS PLAN SHOWS ALL MAJOR COMPONENTS AND VISIBLE OUTLETS. DESIGN INTENT IS FOR ALL ELECTRICAL TO BE REMOVED. CONTRACTOR SHALL VISIT SITE TO DETERMINE SCOPE OF DEMOLITION WORK.



REFERENCE NOTES:

1. REMOVE METER BASE, CONDUIT RISER AND WEATHERHEAD.
2. REMOVE PANEL AND SERVICE BACK TO METER BASE
3. REMOVE TELEPHONE SERVICE (RELOCATE. COORD W/TEL CO)
4. REMOVE CATV SERVICE (RELOCATE, COORD W/CATV CO)
5. REMOVE BOX, CONDUIT & CONTROLS FOR PACKAGED HVAC UNIT
6. REMOVE SAFETY SWITCH AND ELECTRICAL CONNECTION TO PACKAGED HVAC UNIT
7. REMOVE LIGHT SWITCH(ES)
8. REMOVE LIGHT FIXTURE
9. REMOVE RECEPTACLE
10. REMOVE RANGE RECEPTACLE
11. REMOVE CORD DROP TO RECEPTACLE FROM CEILING
12. REMOVE EMERGENCY LIGHT
13. REMOVE 20A WTR HTR CKT
14. REMOVE CONNECTION TO EXHAUST FAN
15. REMOVE SMOKE DETECTOR
16. REMOVE ELECTRICAL FROM OH DOOR MOTORS. REMOVE ASSOCIATED CONTROLS
17. RELOCATE ANTENNA ON ROOF. COORD W/OWNER
18. REMOVE DATA/COMM OUTLET

DEMO FLOOR PLAN – ELECTRICAL

SCALE: 1/4"=1'-0"

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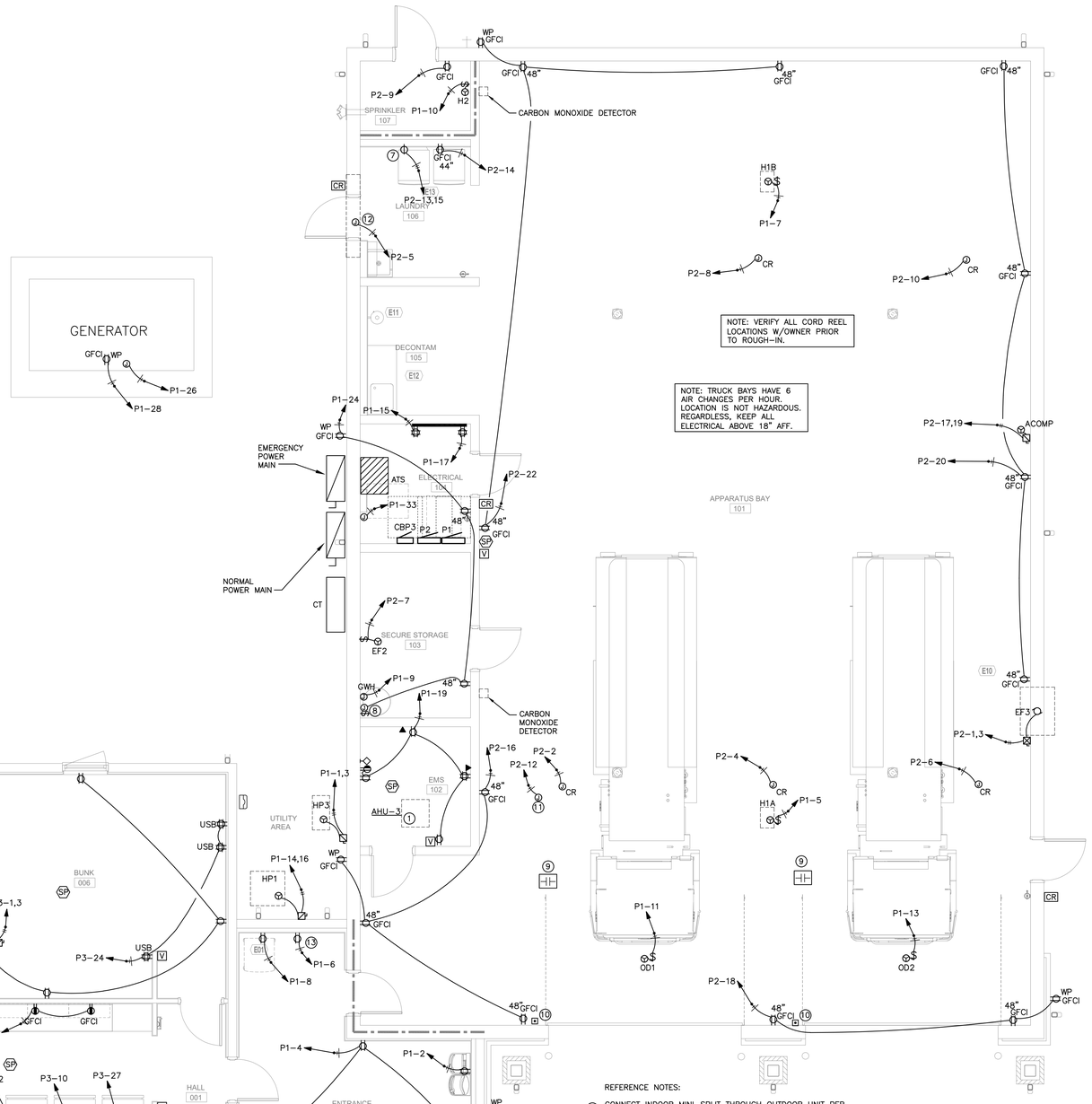
REVISIONS:

TITLE:
DEMO FLOOR PLAN ELECTRICAL

SHEET:
E200

16000

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NEW FLOOR PLAN – POWER

SCALE: 1/4"=1'-0"

REFERENCE NOTES:

1. CONNECT INDOOR MINI-SPLIT THROUGH OUTDOOR UNIT PER MANUFACTURER'S INSTRUCTIONS
2. BELOW SINK FOR DW
3. IN UPPER CABINET FOR MICROWAVE
4. 4" BELOW COUNTER TOP. MOUNT BOX HORIZONTALLY
5. 50A RANGE REC. HOMERUN 3 #6, #10 GND
6. MASTER INTERCOM CONTROL STATION. SEE INTERCOM SYSTEM DETAIL ON DRAWING E101.
7. 30A DRYER RECEPTACLE. HOMERUN 3 #10, #10 GND
8. PROVIDE 120V, 15A TOGGLE DISC SW & CONNECT RE-CIRC PUMP
9. OH DOOR SENSOR. SEE OVERHEAD DOOR/HEATER WIRING DETAIL ON DRAWING E101.
10. DOOR OPERATOR CONTROL STATION AT 48" AFF. COORD W/DOOR OPERATOR SUPPLIER AND WIRE CONTROLS IN CONDUIT COMPLETE.
11. J-BOX AT STRUCTURE FOR AMBULANCE EQUIPMENT. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. HOMERUN 2#10, #10 GND
12. PROVIDE MOTOR RATED SWITCH AND CONNECT 120V LOUVER. INTERLOCK LOUVER WITH EF3 THROUGH EF3 COMBINATION STARTER. RUN INTERLOCKING CONTROLS IN CONDUIT.
13. FUTURE.

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REVISIONS:

TITLE:
NEW FLOOR PLAN ELECTRICAL POWER

SHEET:
E201

GENERAL LUMINAIRE SCHEDULE

CALLOUT	LAMP	DESCRIPTION	MOUNTING	MODEL	TOTAL VA	VOLTS	NOTE 1
A	LED 29,820 LUMENS	HIGH BAY LED	SURFACE	ALS LHBA-210-SC-FL-WH-UD	210	120	SET TO 29,820 LUMENS
B	LED. 5650 LUMENS	4' STRIP	SURFACE	C-LITE C-STRIPBLIN4S56LSCCTULWH	45	120	
C	LED. 5000 LUMENS	2X2 BASKET TROFFER	LAY-IN	CREE C-TRB-B22-S50L-SCCT-UL-WH	40	120	SELECTABLE LUMENS 3750/4550/5000 SELECTABLE COLOR TEMP 35/40/50K
CS	LED. 5000 LUMENS	2X2 BASKET TROFFER W/SURFACE KIT	SURFACE	CREE C-TRB-B22-S50L-SCCT-UL-WH-SMK22	40	120	SELECTABLE LUMENS 3750/4550/5000 SELECTABLE COLOR TEMP 35/40/50K
D	LED 2000 L	6" ROUND DOWNLIGHT	RECESSED	ATLANTIC COM6-SYL20-35K-U-6CM10-SS	20	120	
E	LED INCLUDED	EMERGENCY	WALL	ISOLITE BUG3	0	120	90 MINUTE BATTERY
EW	INCLUDED	EMERGENCY - WET LABEL	WALL	ISOLITE RL2LEDWP	0	MULTIPLE	90 MINUTE BATTERY NEMA 4X
EX	LED	EXIT/EM COMBO	WALL/CEILING	ISOLITE RLC-R-LED-U-WH	0	120	90 MINUTE BATTERY
F	LED 415 LUMENS	19" TASK LIGHT	UNDERCABINET	DAY-BRITE LINCS100EL19935UNVWHG	5	120	
G	LED 3000 L	6" ROUND DOWNLIGHT	RECESSED	ATLANTIC COM6-SYL30-35K-U-6CM10-SS	30	120	
H	LED	LINEAR DIRECT/INDIRECT	SUSPENDED AT 8'-2" AFF	ALPHALITE ILA-4-DB	40	120	
L	LED.2210 LUMENS	VANITY 2' LINEAR	WALL ABOVE MIRROR	GLOBOLUX LWLV-217-MVD-835	17	120	
M	LED 2000 L	6" ROUND WALL WASH	RECESSED	ATLANTIC LED6WW-SYL20-35K-U-6LED80-SS	20	120	
OA	LED	EXTERIOR SCONCE	WALL	WDGE2 LED 4000K	18	120	90 MINUTE BATTERY
OB	LED	LED CANOPY	CEILING	LITHONIA CNY LED 4000K	52	120	WET LOCATION
X	LED	SINGLE FACE EXIT	WALL/CEILING	ISOLITE RL-EM-R-WH-UN	0	120	90 MINUTE BATTERY. ARROWS AS SHOWN

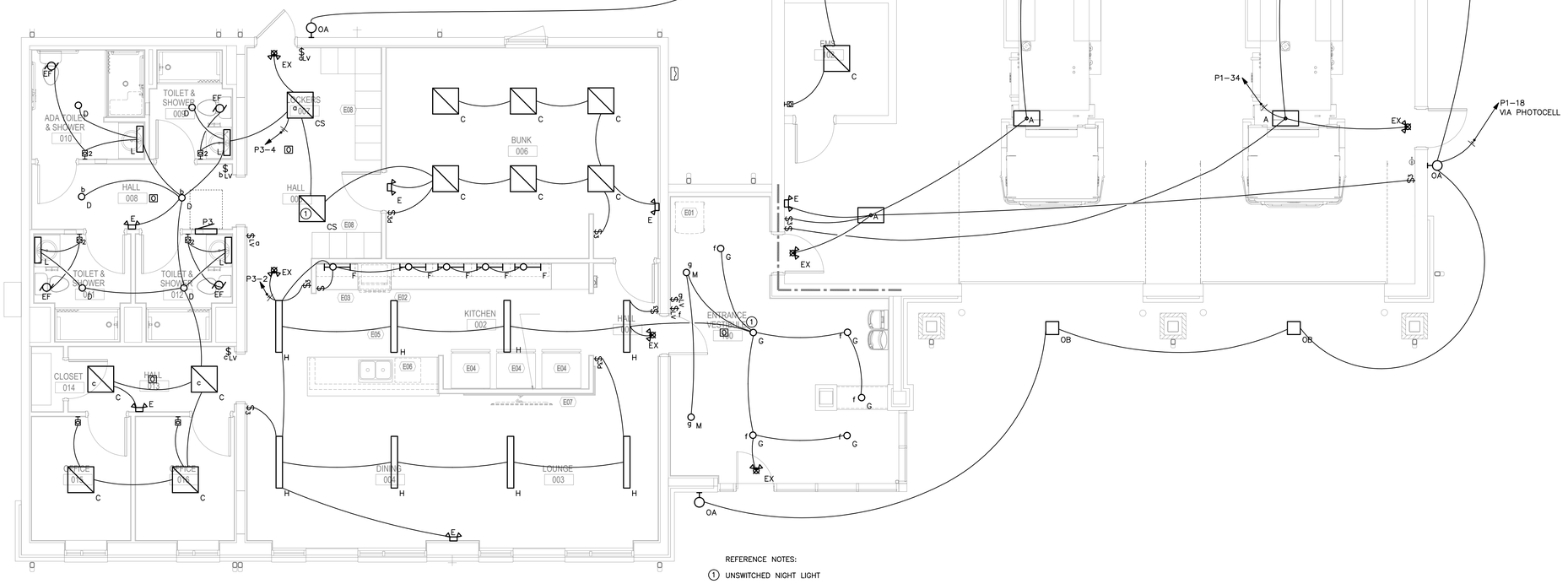
SWITCH SCHEDULE

SYMBOL	NOTE 1
$4	4-WAY SWITCH
$	Single Pole Switch
$LV	SENSORWORX SWX-801-XX LOW-VOLT MOMENTARY ON/OFF SWITCH
2	SENSORWORX SWX-122 2-POLE WALL SWITCH OCCUPANCY SENSOR
	SENSORWORX SWX-222-1 CEILING MOUNT OCCUPANCY SENSOR
	SENSORWORX SWX-121 WALL SWITCH OCCUPANCY SENSOR
$3	3-WAY SWITCH
$3d	3-Way Dimmer

NOTE: DIMMERS SHALL BE SLIDE TYPE WITH PRE-SET, COMPATIBLE WITH FIXTURES/LAMPS TO BE CONTROLLED. SIZE FOR MINIMUM 125% OF LOAD CONTROLLED. PROVIDE 0-10V DIMMING CONTROL WIRING WHERE REQUIRED.

LTG CONTROLS NOTES:

1. CONTROLS SHALL AS A MINUMUM MEET THE REQUIREMENTS OF THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE. WHERE THE PLANS EXCEED THOSE REQUIREMENTS PROVIDE AS SHOWN ON PLANS.
2. PROVIDE POWER PACKS, OCCUPANCY SENSORS, LV SWITCHES AND CAT 5 CONTROL WIRING AS REQUIRED FOR A COMPLETE, OPERATING CONTROL SYSTEM. LOWER CASE LETTERS CORRESPOND WITH FIXTURES TO BE CONTROLLED.
3. WALL BOX DIMMERS SHALL BE MANUAL, ON MANUAL OFF, VACANCY OFF.
4. ALL DIMMING SHALL BE 0-10V, COMPATIBLE WITH FIXTURES TO BE DIMMED. PROVIDE LOW VOLTAGE 0-10V DIMMING CONTROL WIRING.
5. EQUALS BY WATTSTOPPER OR LEGRAND WILL BE ACCEPTABLE. SUBMIT FOR APPROVAL.



REFERENCE NOTES:

1. UNSWITCHED NIGHT LIGHT
2. SUSPEND LIGHT FIXTURE AT 10'-0" AFF

NEW FLOOR PLAN - LIGHTING
SCALE: 1/4"=1'-0"

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PROJECT NO: 22-136

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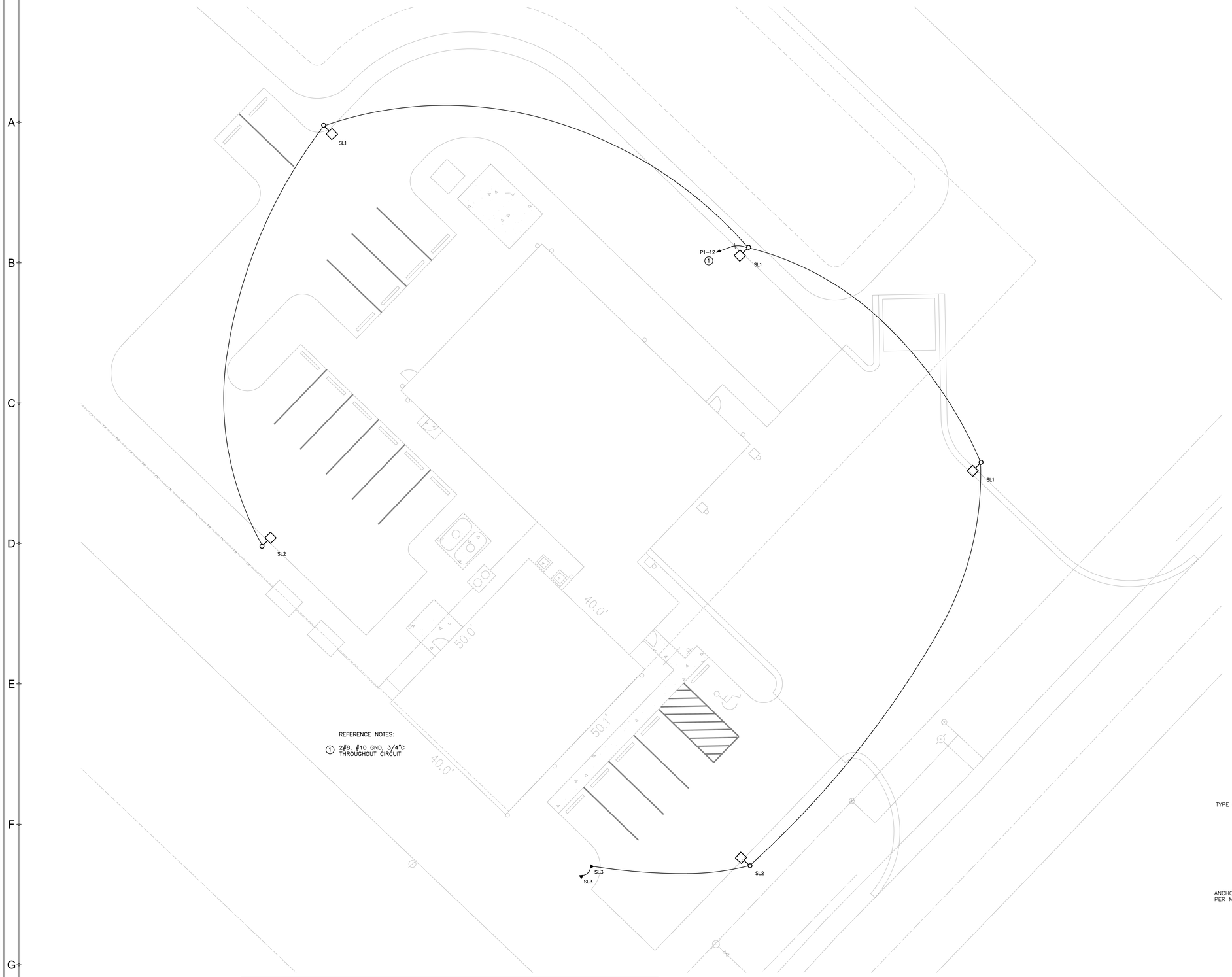
REVISIONS:

TITLE:
NEW FLOOR PLAN ELECTRICAL LIGHTING

SHEET:
E202

16000

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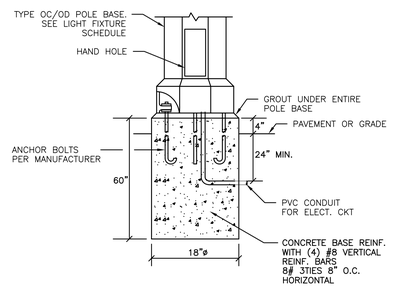
REFERENCE NOTES:

① 2#8, #10 GND, 3/4"C THROUGHOUT CIRCUIT

SITE PLAN – ELECTRICAL
SCALE: 1"=10'-0"

SITE LUMINAIRE SCHEDULE

CALLOUT	DESCRIPTION	MOUNTING	MODEL	TOTAL VA	FIXTURE WATTS	VOLTS	NOTE 1
SL1	POLE LIGHT	20' POLE PROVIDE LPI SERIES LPI-4C-20-1	NOCTURA SERIES NTA-A-NM-T3-TYPE III-19L-40K-UL-120-277V-BZ	130	130	120V 1P 2W	
SL2	AREA LIGHT	20' POLE PROVIDE LPI SERIES LPI-4C-20-1	NOCTURA SERIES NTA-A-NM-T4-TYPE IV-19L-40K-UL-120-277V-BZ	130	130	120V 1P 2W	
SL3	NARROW FLOOD	KNUCLE PROVIDE CONC. BASE & PIPE	C-LITE C-FLBRDN5L40KDB	40	40	120V 1P 2W	AIM AT FLAG



POLE BASE DETAIL
SCALE: NONE

16000

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NO. C03673
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL
SEAL
15694
2/25/26
GREGORY L. McDONELL

Additions & Renovations to:
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For:
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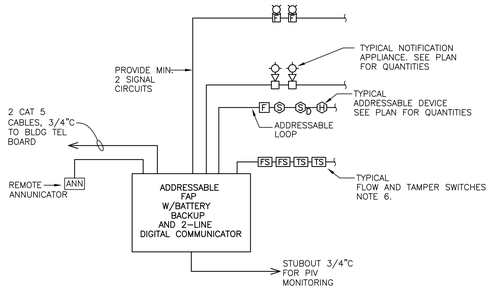
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REVISIONS:

TITLE:
SITE PLAN
ELECTRICAL

SHEET:
E300



FIRE ALARM RISER

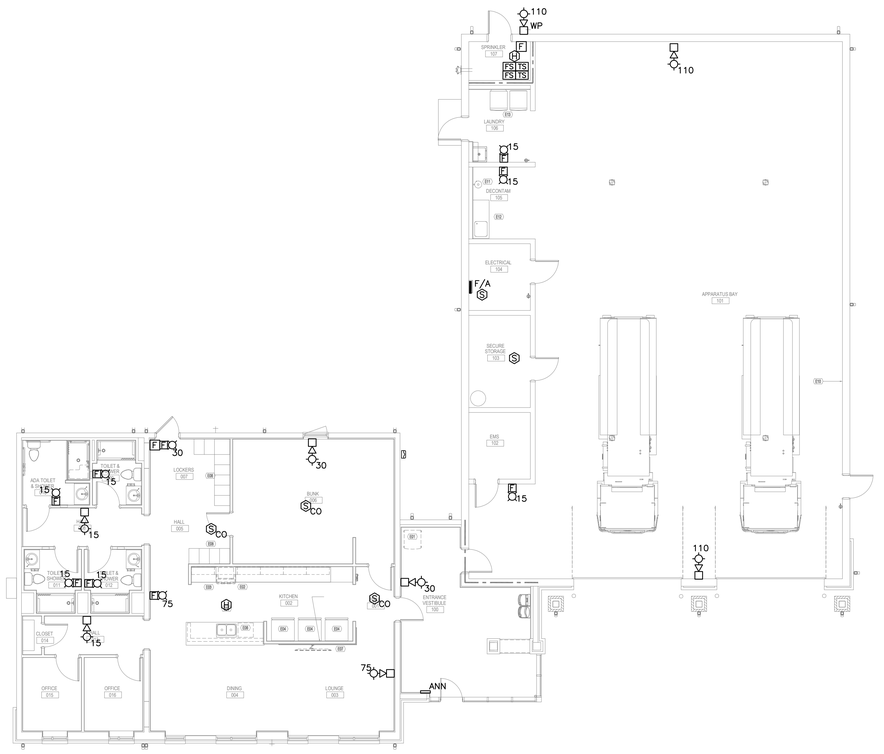
NTS

NOTES:

1. ALL FIRE ALARM WORK SHALL COMPLY W/ NFPA 72 AND ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
2. CABLES SHALL BE AS RECOMENDED BY SYSTEM MANUFACTURER,
3. SYNCHRONIZE STROBES.
4. PROVIDE GLOBAL SHUTDOWN OF AIR HANDLERS ON ALARM.
5. TEST AND CERTIFY SYSTEM. PROVIDE O&M MANUALS.
6. MONITOR ALL FLOW SWITCHES, TAMPER SWITCHES AND VALVES AS REQUIRED. COORDINATE WITH FIRE PROTECTION SYSTEM INSTALLER. MONITORING OF ALL SUCH DEVICES SHALL BE INCLUDED IN THIIS CONTRACT.
7. CONTRACTOR SHALL OBTAIN A SEPARATE PERMIT FOR FIRE ALARM WORK. SUBMIT ALL REQUIRED DOCUMENTATION TO THE AHJ FOR APPROVAL.

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
F	PULL STATION
	F.A. HORN/STROBE, CANDELA INDICATED
	F.A. STROBE, CANDELA INDICATED
S	SMOKE DETECTOR
S CO	SMOKE/CO DETECTOR
S D	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR
F/A	FIRE ALARM PANEL
ANN	REMOTE ANNUNCIATOR
FS	FLOW SWITCH
TS	TAMPER SWITCH



FLOOR PLAN – FIRE ALARM

SCALE: 1/8"=1'-0"

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REVISIONS:

TITLE:
NEW FLOOR PLAN
FIRE ALARM

SHEET:
FA100

16000

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