

ABBREVIATIONS

AB. ABOVE	GA. GAGE, GAUGE	S. SOUTH
A.B. ANCHOR BOLT	GALV. GALVANIZED	SAC. SUSPENDED ACOUSTICAL CEILING
ADAAG. AMERICANS WITH DISABILITIES ACT ARCHITECTURAL GUIDELINES	GC. GENERAL CONTRACTOR	SAN. SANITARY
ADJ. ADJUST(ABLE)	GL. GLASS, GLAZING	SC. SOLID CORE
AFF. ABOVE FINISHED FLOOR	GYP. GYPSUM	SCHED. SCHEDULE(D)
ALUM. ALUMINUM		SF. SQUARE FEET
ALT. ALTERNATE	HC. HOLLOW CORE	SHT. SHEET
ASPH. ASPHALT	HDWR. HARDWARE	SIM. SIMILAR
	HM. HOLLOW METAL	SPEC. SPECIFICATION, SPECIFIED
BCJ. BOTTOM CHORD OF JOIST	HOR. HORIZONTAL	SQ. SQUARE
BD. BOARD	HT. HEIGHT	SST. STAINLESS STEEL
BLDG. BUILDING	HVAC. HEATING, VENTILATING & AIR CONDITIONING	STD. STANDARD
BM. BEAM		STL. STEEL
B.M. BENCH MARK		STR. STRUCTURE, STRUCTURAL
BRNG. BEARING		SUSP. SUSPENDED
BUR. BUILT UP ROOFING		
	INSUL. INSULATION	TEMP. TEMPORARY
	INT. INTERIOR	TH. THICK
	I.D. INSIDE DIAMETER	T.O.M. TOP OF MASONRY
	JST. JOIST	T.O.S. TOP OF STEEL
	JT. JOINT	TYP. TYPICAL
		UNF. UNFINISHED
CAB. CABINET	KIP. 1000 POUNDS	
CFM. CUBIC FEET PER MINUTE		VCT. VINYL COMPOSITION TILE
C.I. CAST IRON		VERT. VINYL WALL COVERING
C.I.P. CAST-IN-PLACE		VWC. VINYL WALL COVERING
CJ. CONTROL JOINT		
CL. CENTER LINE		W. WEST
CLG. CLEAR	LAV. LAVATORY	WC. WATER CLOSET
CMU. CONCRETE MASONRY UNIT		WD. WOOD
COL. COLUMN	MAX. MAXIMUM	W.P. WATER PROOF(ING)
CONC. CONCRETE	MECH. MECHANICAL	WWF. WELDED WIRE FABRIC
CONN. CONNECT, CONNECTOR, CONNECTION	MET. METAL(LIC)	
CONST. CONSTRUCT(ION)	MFR. MANUFACTURER	
CONT. CONTINUOUS	MIN. MINIMUM	
CONTR. CONTRACTOR	MISC. MISCELLANEOUS	
CT. CERAMIC TILE	M.O. MASONRY OPENING	
	M.R. MOISTURE RESISTANT	
	M.T. METAL THRESHOLD	
	MULL. MULLION	
DBL. DOUBLE		
DET. DETAIL		
DF. DRINKING FOUNTAIN		
DIA. DIAMETER		
DS. DOWNSPOUT		
DWG. DRAWING		
E. EAST		
EIFS. EXTERIOR INSULATION & FINISH SYSTEM		
EJ. EXPANSION JOINT		
ELEC. ELECTRICAL		
ELEV. ELEVATION		
EQ. EQUAL		
EWC. ELECTRIC WATER COOLER		
EXH. EXHAUST		
EXIST. EXISTING		
EXP. EXPANSION		
EXT. EXTERIOR		
FD. FLOOR DRAIN		
FE. FIRE EXTINGUISHER		
FEC. FIRE EXTINGUISHER CABINET		
F.F. FINISHED FLOOR		
F.F.E. FINISHED FLOOR ELEVATION		
FIN. FINISH(ED)		
FIXT. FIXTURE		
FL. FLOOR, FLUSH		
FTG. FOOTING		
FURN. FURNISH, FURNISHED, FURNISHING		
	N. NORTH	
	NAT. NATURAL	
	NIC. NOT IN CONTRACT	
	NO. NUMBER	
	O.C. ON CENTER	
	O.C.V. ON CENTER, VERTICAL	
	O.D. OUTSIDE DIAMETER	
	OPNG. OPENING	
	ORN. ORNAMENTAL	
	OSB. ORIENTED STRAND BOARD	
	PL. PROPERTY LINE	
	P.L. PLASTIC LAMINATE	
	PL. PLATE	
	PSI. POUNDS PER SQUARE INCH	
	P.T. PRESSURE TREATED	
	PTD. PAINTED	
	PWD. PLYWOOD	
	QT. QUARRY TILE	
	RAD, R. RADIUS	
	RAG. RETURN AIR GRILLE	
	RD. ROOF DRAIN	
	RE. REFER(ENCE)	
	REINF. REINFORCING	
	REV. REVISED, REVISION	

LEGEND

DETAIL NUMBER	⊗	DETAIL	xxx	ROOM NUMBER
SHEET WHERE	⊗		PLX	PLASTIC LAMINATE
DETAIL IS DRAWN	⊗		xx	WALL or PARTITION TYPE
	⊗	ELEVATION	◇	GLAZING TYPE
	⊗		xx	KEYNOTE
	⊗	BUILDING SECTION	xx	TOILET ACCESSORY
	⊗		xx	WINDOW/STOREFRONT
	⊗	WALL SECTION	xx	EQUIPMENT
	⊗		xx	REVISION
	⊗	COLUMN GRID	xx	VERTICAL DATUM
	⊗	BREAK/MATCH LINE	xx	
	⊗	PROPERTY LINE	xx	
DOOR NUMBER	⊗	DOORS	xx	
HARDWARE SET	⊗		xx	
		FINISHED WOOD		BATT INSULATION
		ROUGH WOOD, CONT.		RIGID INSULATION
		WOOD BLOCKING		LOOSE-FILL INSULATION
		FACE/Common BRICK		STEEL
		CMU		EXISTING CONTOUR
		C.I.P. CONCRETE		FINISHED CONTOUR

SEE INDIVIDUAL DRAWINGS FOR ADDITIONAL SYMBOL LEGENDS

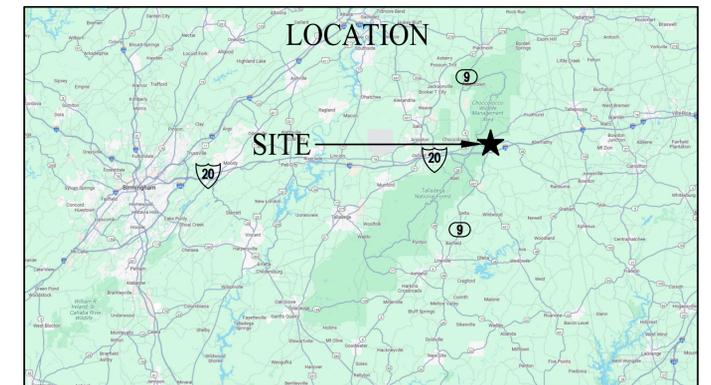
HEFLIN POLICE STATION

850 ROSS STREET HEFLIN, ALABAMA

PROJECT NUMBER 2102

APRIL 15, 2025

HEFLIN CITY COUNCIL
CLINTON "SHAG" AUSTIN
TRAVIS CROWE
RHONDA GREEN
RHONDA HEARD
SHANNON ROBERTS
ROBBY BROWN, MAYOR



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DATE: 4/15/2025
PROJECT # 2102

SET NO.



BARRY DAVIS, ARCHITECTS, PC

ONE RIVERCHASE RIDGE, SUITE 102
HOOVER ALABAMA 35244
205.444-1112 www.BarryDavisArchitects.com



MECHANICAL ENGINEER



ELECTRICAL ENGINEER

JRA

JACKSON, RENFRO & ASSOCIATES, INC.

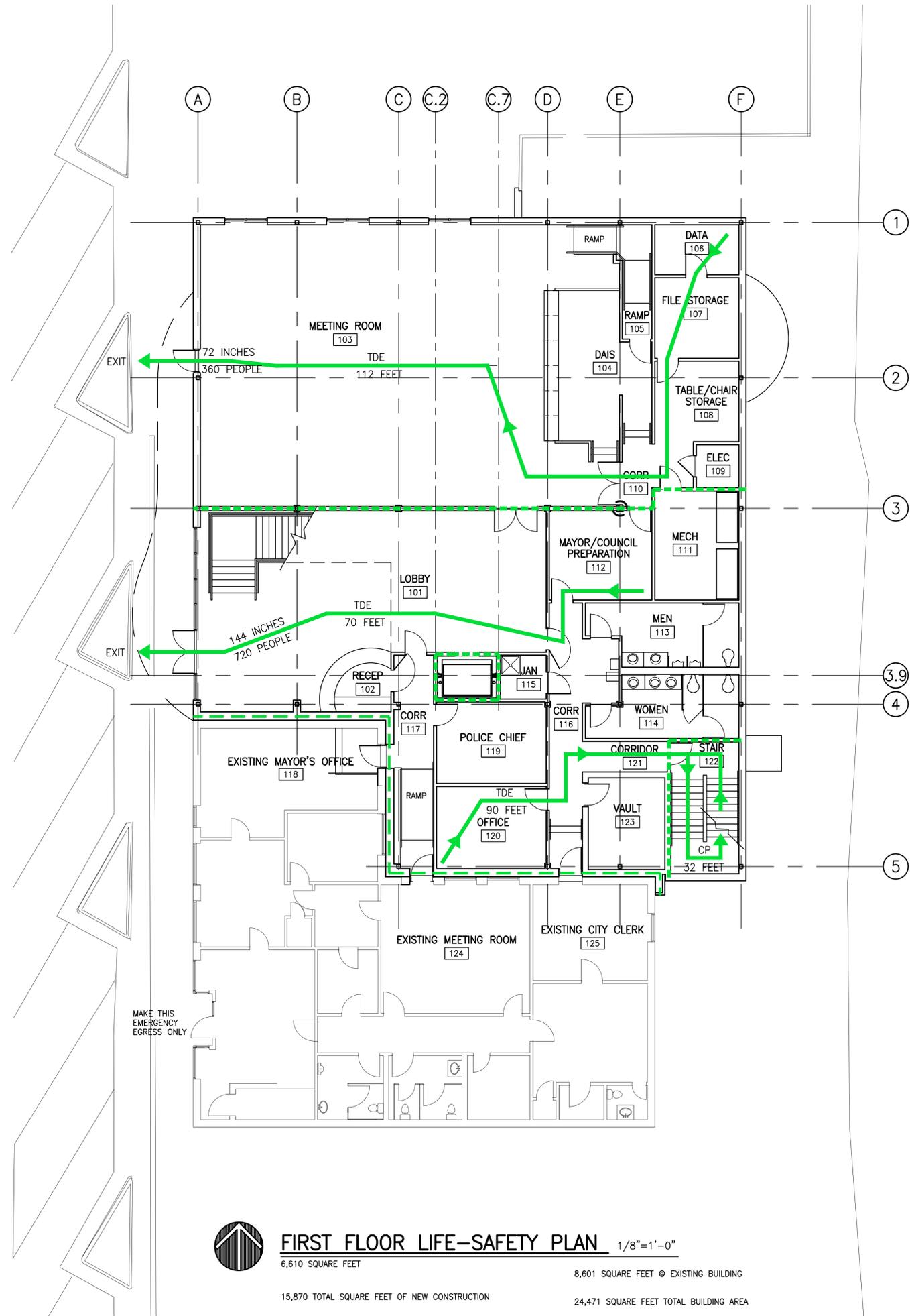
ELECTRICAL ENGINEERING & DESIGN

STRUCTURAL ENGINEER



**LIVE OAK
ENGINEERING**

2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115



LEGEND

- ← TDE TRAVEL DISTANCE TO EXIT DIST.
- ← CP COMMON PATH OF TRAVEL DIST.
- ← DE DEAD END DIST.
- ← CLEAR EXIT WIDTH EXIT EXIT CAPACITY
- 3-HOUR FIRE WALL
- 2-HOUR PARTITION

BELL STREET



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

6,610 SQUARE FEET 8,601 SQUARE FEET @ EXISTING BUILDING

15,870 TOTAL SQUARE FEET OF NEW CONSTRUCTION 24,471 SQUARE FEET TOTAL BUILDING AREA

BARRY DAVIS ARCHITECTS, P.C.

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HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

REVISIONS

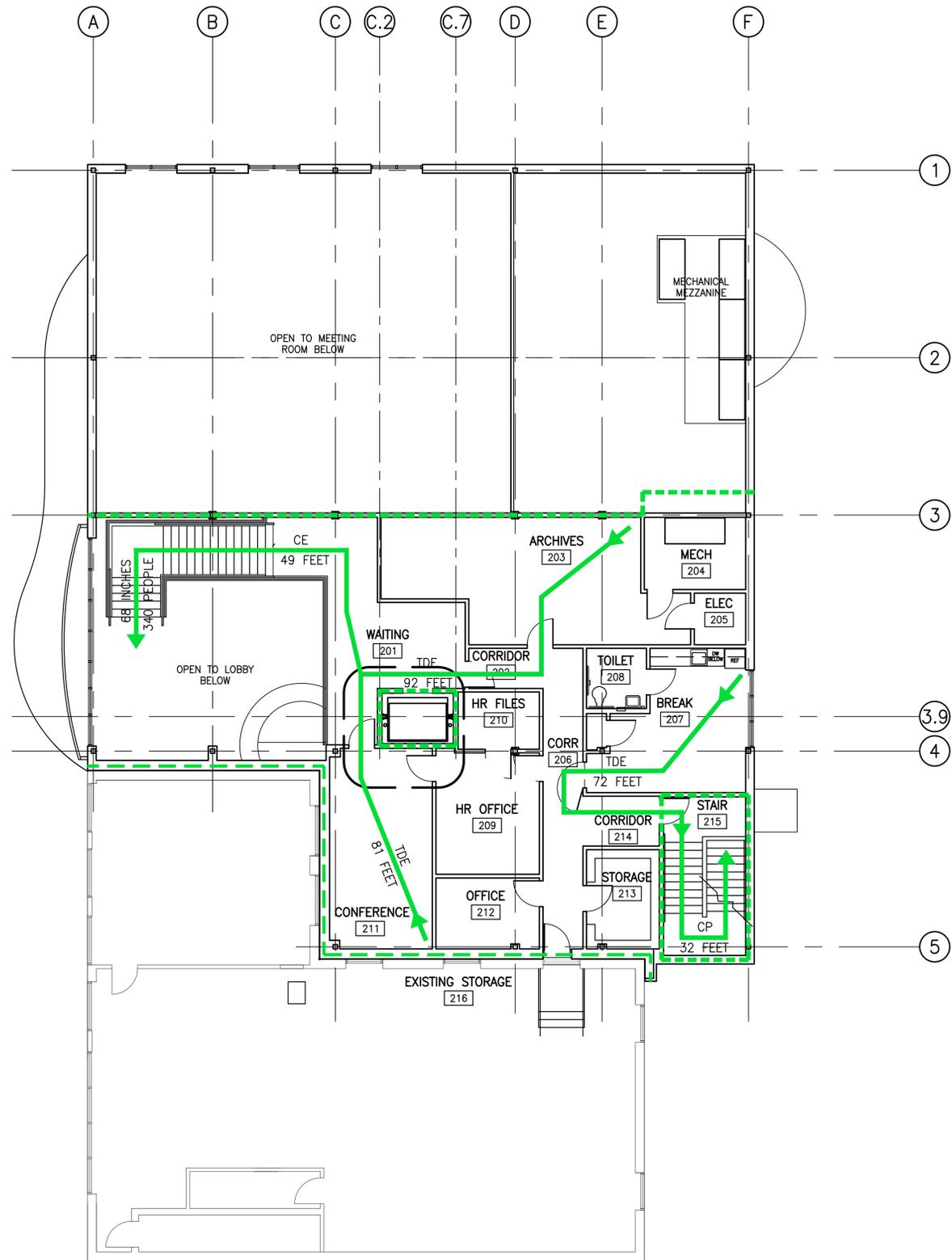
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FIRST FLOOR LIFE-SAFETY PLAN

LS1.2

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LEGEND

- TDE TRAVEL DISTANCE TO EXIT DIST.
- CP COMMON PATH OF TRAVEL DIST.
- DE DEAD END DIST.
- CLEAR EXIT WIDTH EXIT EXIT CAPACITY
- 3-HOUR FIRE WALL
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REVISIONS

DATE: 4/15/2025
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**SECOND FLOOR
 LIFE-SAFETY
 PLAN**

LS1.3

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SECOND FLOOR LIFE-SAFETY PLAN 1/8"=1'-0"
 2,650 SQUARE FEET

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GENERAL NOTES

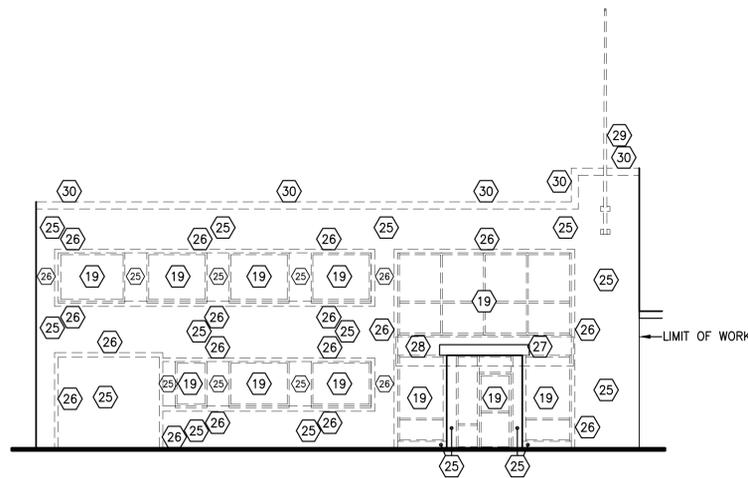
- THE ARCHITECT HAS MADE A DILIGENT EFFORT TO IDENTIFY, LOCATE, & MEASURE ALL PERTINENT ELEMENTS & TO PROPERLY INDICATE THEM ON THESE DRAWINGS; HOWEVER, THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO FIELD-VERIFY ALL CONDITIONS.
- SEE PLUMBING, HVAC, FIRE PROTECTION, & ELECTRICAL DOCUMENTS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- UNLESS OTHERWISE NOTED, DO NOT ALTER THE EXISTING BUILDING. PROTECT THE EXISTING BUILDING TO ENSURE IT RECEIVES NO DAMAGE DUE TO THE EXECUTION OF THIS WORK.
- TURN OVER TO THE OWNER ANY MATERIAL THAT THEY MAY WISH TO KEEP AS DETERMINED BY MAYOR BROWN. PLACE IN A LOCATION AS DIRECTED BY MAYOR BROWN.

LEGEND

- | | |
|---|---|
|  EXISTING WALL/PARTITION TO REMAIN |  EXISTING WALL/PARTITION TO BE REMOVED |
|  EXISTING DOOR TO REMAIN |  EXISTING DOOR TO BE REMOVED |

KEYNOTES

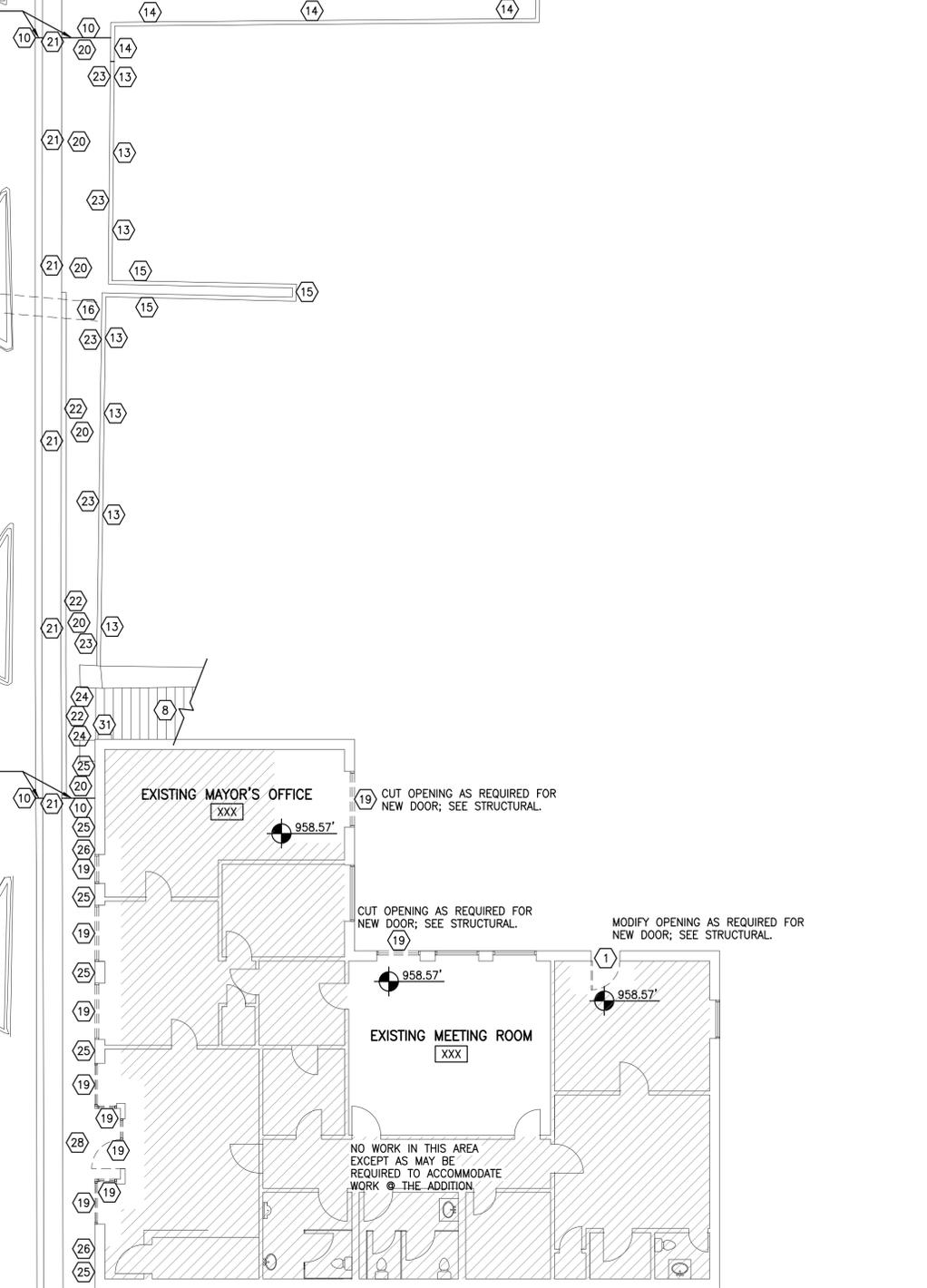
- 1 REMOVE EXISTING DOOR, FRAME, & HARDWARE.
- 2 REMOVE SECTION OF EXISTING WALL AS REQUIRED TO INSTALL NEW DOOR.
- 3 REMOVE EXISTING DOWNSPOUT.
- 4 REMOVE EXISTING CANOPY.
- 5 REMOVE EXISTING WOOD STAIR.
- 6 REMOVE EXISTING ELECTRICAL SERVICE.
- 7 REMOVE EXISTING HVAC UNIT & STORE FOR RE-INSTALLATION.
- 8 REMOVE EXISTING CONCRETE/MASONRY STAIR & RAILING (NIC).
- 9 REMOVE EXISTING FLUE.
- 10 SAW-CUT EXISTING PAVEMENT FOR A CLEAN, STRAIGHT JOINT (NIC).
- 11 REMOVE EXISTING CONCRETE PAVING (NIC).
- 12 REMOVE EXISTING ASPHALT PAVING (NIC).
- 13 REMOVE EXISTING RETAINING WALL (NIC).
- 14 EXISTING RETAINING WALL TO REMAIN.
- 15 REMOVE EXISTING CONCRETE STRUCTURE (NIC).
- 16 REMOVE EXISTING STORM SEWER (NIC).
- 17 REMOVE EXISTING FIBER OPTICS CABLE (NIC).
- 18 NOT USED.
- 19 REMOVE EXISTING ALUMINUM STOREFRONT SYSTEM.
- 20 REMOVE EXISTING CONCRETE SIDEWALK (NIC).
- 21 REMOVE EXISTING BRICK PAVERS & STORE FOR RE-INSTALLATION (NIC).
- 22 REMOVE EXISTING TRENCH DRAIN GRATE & STORE FOR RE-INSTALLATION (NIC).
- 23 REMOVE EXISTING WROUGHT IRON FENCE. USE CARE TO AVOID ANY UNNECESSARY DAMAGE. TURN OVER TO THE OWNER (NIC).
- 24 REMOVE EXISTING BRICK PEDISTAL (NIC).
- 25 REMOVE EXISTING BRICK VENEER & TURN MATERIAL OVER TO THE OWNER.
- 26 REMOVE EXISTING CAST STONE TRIM.
- 27 REMOVE EXISTING CAST STONE ACCENT PANEL. USE CARE TO AVOID ANY UNNECESSARY DAMAGE. STORE FOR RE-INSTALLATION.
- 28 REMOVE EXISTING FABRIC AWNING.
- 29 REMOVE EXISTING FLAGPOLE & TURN OVER TO THE OWNER.
- 30 REMOVE EXISTING ALUMINUM COPING.
- 31 REMOVE EXISTING ELECTRICAL CONTROL DEVICE & STORE FOR RE-INSTALLATION.



WEST ELEVATION DEMOLITION 1/8"=1'-0"

LOCATE ● NEAREST EXISTING JOINT

LOCATE ● NEAREST EXISTING JOINT



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

BELL STREET



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GENERAL NOTES

In case of conflict between the General Notes below and the Specifications, the more rigid requirement shall govern unless amended in writing by the Structural Engineer of Record.

DESIGN DATA

- Design Codes – (All latest editions unless noted otherwise.)
 - International Building Codes (IBC 2018)
 - American Society of Civil Engineers: Minimum Design Loads for Buildings and Other Structures (ASCE 7)
 - American Concrete Institute: Building Code Requirements for Structural Concrete (ACI-318)
 - American Institute of Steel Construction: Specifications for Structural Steel Buildings (AISC-360) and Seismic Provisions for Structural Steel Buildings (AISC-341)
 - American Welding Society (AWS)
 - Steel Deck Institute (SDI)
 - Steel Joist Institute (SJI): Code of Standard Practice for Steel Joists and Joist Girders
 - American Iron and Steel Institute Specifications for the Design of Cold Formed Steel Structural Members (AISI)
 - The Masonry Society: Building Code Requirements and Specifications for Masonry Structures (TMS 402/602)
- Design Loads (IBC & ASCE7)
 - Dead Load Design Data
 - Structure Self Weight 20 psf
 - Roof 20 psf
 - Floor 15 psf of wall area
 - Exterior CMU Wall 60 psf of wall area
 - Brick 40 psf of wall area
 - Live Load Design Data
 - Floor Distributed
 - Office 50 psf (Not reducible)
 - Stairs 100 psf (Not reducible)
 - Lobby 100 psf (Not reducible)
 - File Room 150 psf (Reducible per code)
 - Floor Concentrated
 - Office 2000 lbs
 - Partition Load 15 psf of wall area (Reducible per code)
 - Slab-On-Grade Theoretical volume x 150 pcf
 - Live Roof Load Design Data
 - Roof (Sloped) 20 psf
 - Roof (Flat) 20 psf
 - Wind Design Data
 - Risk Category IV
 - Velocity 119 mph
 - Wind Exposure Category C
 - Internal Pressure Coefficient, GCpi +/- 0.18
 - Snow Design Data
 - Importance Factor for Snow, Is 1.2
 - Ground Snow Load, Pg 5 psf
 - Exposure Coefficient Ce 0.9
 - Thermal Factor Ct 1
 - Roof Slope Factor, Cs 1
 - Flat Roof Snow Load Pf 3.5 psf (Use min 5 psf w/Rain on Snow Surcharge)
 - Seismic Criteria
 - Risk Category IV
 - Seismic Importance Factor, IE 1.5
 - Site Soil Class D
 - Mapped Spectral Response Coefficients
 - Ss = 0.223 / S1 = 0.089
 - Sds = 0.238 / Sd1 = 0.142
 - Seismic Design Category C
 - Basic Seismic Force Resisting System Steel Systems Not Specifically Detailed for Seismic Resistance, Excluding Cantilevered Column Systems
 - Design Base Shear 0.11W
 - Seismic Response Coefficient, Cs 0.11
 - Response Modifications Factor, R 6
 - Analysis Procedure Equivalent Lateral Force
 - Flood Design Data
 - Flood Design Class 4
 - Flood Zone X
 - Rain Design Data
 - 15-Minute Intensity 9.4 in/hr
 - 60-Minute Intensity 4.7 in/hr
 - Deflection and Drift Limitations
 - Roof/Floor Members L/360
 - Building Drift H/400
 - Max Wall Deflection L/600
 - Story Drift (Seismic) 0.025 hsx

GENERAL INFORMATION

- All columns shall be centered on grid lines unless noted otherwise.
- All column footings shall be centered on columns unless noted otherwise.
- All wall footings shall be centered on walls unless noted otherwise.
- Unless otherwise noted or detailed, concrete pads for mechanical equipment shall be 4" thick (minimum) and reinforced with #3 @ 12" O.C. each way centered.
- Substitution of expansion anchors for embedded anchors shall not be permitted without prior, written approval from the engineer of record.
- Weights of mechanical equipment shown on the structural plans are for units specified by the Mechanical Engineer. Contractor shall verify weight and any substitutions that result in increased weight shall be approved by the Structural Engineer.
- Backfill both sides of all foundation and retaining walls equally until low side is up to finish grade. Do not backfill any walls until concrete has reached its specified 28-day compressive strength.
- Permanent stability of the building and components is not provided until the erection is completed as shown on the contract drawings. Per AISC Latest Edition Code of Standard Practice, "Temporary supports, such as temporary guys, braces, framework, cribbing or other elements required for the erection operation will be determined, furnished and installed by the erector."
- The contractor shall insure that no construction load exceeds the design live loads indicated on the structural drawings and that these loads are not put on the structural members prior to the time that all framing members and their connections are in place.
- The contractor shall be responsible for verifying all existing conditions. The contractor shall be responsible for coordinating architectural, structural, mechanical, and electrical details and dimensions. Any discrepancies between such details and dimensions shall be reported to the EOR prior to proceeding with the work.
- The contractor shall be responsible for erection procedure and sequence to insure the integrity of the building and it's component parts during construction.

SUBMITTALS

- Review of shop drawings and other submittals by the Structural Engineer does not relieve the Contractor of the responsibility to review and check shop drawings before submitting to the Structural Engineer. The contractor remains solely responsible for errors and omissions associated with the preparation of shop drawings as they pertain to member sizes, details, and dimensions specified in the Contract Documents. All shop drawings must be stamped by the Contractor prior to submittal.
- Shop Drawings: The Contractor shall submit for Structural Engineer review shop drawings for the following items. Items marked (*) shall have shop drawings sealed by a Professional Engineer registered in the state in which the project is located. Items marked (#) shall be submitted for Structural Engineer's record only.
 - A. Structural Steel Joist
 - B. Steel Stairs (*)
 - C. Steel Deck
 - D. Concrete Mix Designs
 - E. Cold-Formed Metal Framing (*)
 - F. CMU Reinforcing Steel
 - G. Concrete Reinforcing Steel
- Design Calculations: The Contractor shall submit for Structural Engineer's record, design calculations sealed by a Professional Engineer registered in the state in which the project is located for the following items.
 - A. Structural Steel Connections
 - B. Steel Stairs
 - C. Steel Joist (see steel joist section of General Notes)
 - D. Cold-Formed Metal Framing

EXISTING CONSTRUCTION

- The Contractor is responsible for protecting and maintaining the structural integrity of the existing building at the interface connections during all stages of construction.
- Connections, Additions and Alterations as shown to existing building are based on Original Structural Drawings and on a Visual Observation of the project site.
- The Contractor shall field-verify all Dimensions, Elevations and Conditions shown prior to fabrication/construction. This information shall be incorporated into the shop drawings prior to submitting to Architect/Engineer for review.
- If existing conditions differ from the conditions shown in the drawings or assumed for designing, the engineer shall be notified of all discrepancies allowed to examine the as-built condition, and modify the design as required.
- If conditions are encountered during construction which require the removal of existing load-bearing construction not shown on the structural drawings, the Structural Engineer shall be notified, allowed to examine the as-built condition and provided the opportunity to modify the design as required, prior to removal.
- Except where new permanent loads or components have been added as shown in the structural drawings, the existing structure has not been analyzed by Live Oak Engineering.

FOUNDATIONS

- All soil preparation shall be in accordance with the recommendations given in the referenced Geotechnical Report.
 - Prepared By: Terracon
 - Report Title: Geotechnical Engineering Report
 - Report Date: January 14, 2025
 - Report Number: E1245218
- Design Soil Bearing Pressures
 - Footings on natural soils or compacted structural fill are designed for a minimum soil bearing pressure of 2,000 psf.
 - If the soil at the footing bearing elevations shown is of questionable bearing value, the Engineer or Architect shall be notified immediately.
- Strip area of all gravel, surface vegetation, topsoil, and any debris. Remove all existing structures, foundations, and below grade site features. After stripping and making required cuts, exposed subgrade shall be compacted. Over excavated and stabilize any soft or unstable areas discovered by proof rolling.
- All foundation bearing surfaces shall be reviewed by the Geotechnical Engineer prior to placing concrete to ensure their compliance with the bearing pressures and subgrade requirements noted. All foundation bearing elevations are estimated and may be adjusted in the field by the Geotechnical engineer as required.
- If the soil at the bearing elevations shown is of questionable bearing value, the Structural Engineer of Record or Architect shall be notified immediately.
- Where fill material is required over in-situ subgrade, scarify subgrade to a minimum depth of 9" and adjust moisture content to equal optimum moisture content. Compact scarified subgrade using the same requirements listed below for compacted structural fill.
- All fill material under structural shall comply with requirements stated in Geotechnical Report unless specifically noted otherwise. As a minimum, all fill material under structure shall be sandy clay or clayey sand exhibiting a liquid limit less than 35. Fill material shall be placed in loose lifts not to exceed 8" and compacted to a density of not less than 95% of Modified Proctor Maximum Dry Density (ASTM D-1557) at or slightly wet of optimum moisture content. In place moisture and density of each lift shall be determined by in-situ field tests prior to placing additional fill.
- After footing excavations are completed and before placing concrete, the excavated areas shall be inspected and approved by the Owner's selected independent testing laboratory.
- Provide a minimum or a 4" clean free draining granular sub-base fill below all interior slabs-on-grade unless noted or detailed otherwise. Sub-base shall meet gradation requirements of ASTM C-33 size No. 67 unless specifically noted otherwise.
- A 10-mil polyethylene film vapor barrier meeting the requirements in the specifications, shall be placed below all interior slabs on grade.

CAST-IN-PLACE CONCRETE

- Structural Concrete
 - Cast-In-Place Concrete ASTM A615, GR 60
 - Concrete Reinforcing – Bar (Typical) ASTM A706, GR 60
 - Concrete Reinforcing – Bar (Weldable) ASTM A185, (Plain)
 - Concrete Reinforcing – Welded Wire Fabric ASTM A497, (Deformed)
 - Cement ASTM C150
 - Aggregate ASTM C33, ASTM C330

Concrete Mix Criteria		f'c, PSI	WT, PCF	AGG.	IN AE, %	
Class	Use					
I.	FTG/FDN/PC	0 1 1 1	4000	145	1"	NA
II.	Interior Slab	0 1 1 1	4000	145	%	NA
III.	Exterior Slab	1 1 1 2	4000	145	%	5 ±1
IV.	Tilt-Up Panel	1 1 1 1	4000	145	%	NA
V.	All Other	0 1 1 1	4000	145	1"	NA

- A concrete mix design for every mix design noted in the Contract Documents shall be submitted for each class in accordance with the procedure outlined in ACI 301, Standard Specification For Structural Concrete. Documentation submitted in the mix design shall include: mix design recipe, cementitious material data sheets, aggregate gradation, cylinder break data, and admixture data sheets.
- On the use of admixtures and limits on the water/cementitious materials ratio for durability, reference the project manual/specifications, ACI 318, and IBC requirements for structural concrete.
- Arrangement and bending of reinforcing steel shall be in accordance with ACI Detailing Manual, latest edition.
- Reinforcing steel shall be new and all bars shall be deformed.
- Contractor shall provide reinforcing shop drawings which adequately depict the reinforcing bar sizes and placement. Written description of reinforcement without adequate sections, elevations and details is not acceptable.
- Unless noted otherwise, bar laps shall be Class B tension laps and shall be lapped with minimum lengths as shown in tables below, where splices are required in reinforcing. Shorter laps may be acceptable if specific locations of alternate laps are shown on the reinforcement placement drawings and calculations are submitted by a Registered Professional Engineer, licensed to practice in the state in which the project is located, justifying the alternate lap lengths.
- Provide suitable wire spacers, chairs, ties, ect. for supporting reinforcing steel in the proper position while placing concrete. Do not "wet stick" dowels.
- Minimum lap and embedment of Welded Wire Fabric (WWF) to be one cross wire spacing plus 2".
- Before placing concrete, clean reinforcement for foreign particles or coatings. Place, support, and secure reinforcement against displacement. For cast-in-place concrete, provide cover as shown below, unless noted otherwise on drawings, and as specified in ACI 318, building code requirements for structural concrete.

Application/condition	Required cover, Inches
Cast against and permanently exposed to earth	3"
Exposed to earth or weather:	
No.6 through No.19 bars	2"
No.5 bar, W31 or D31 wire, and smaller	1 1/2"
Not exposed to weather or in contact with ground:	
Slab, walls, joints:	
No. 14 and No. 18 bars	1 1/2"
No. 11 bar and smaller	3/4"
Beam, columns:	
Primary reinforcements, ties, stirrups, spirals	1 1/2"
Shells, folded plate members:	
No.6 bar and larger	3/4"
No.5 bar, W31 or D31 wire, and smaller	3/8"

- Locations and sizes of openings, sleeves, ect. required for other trades must be verified by these trades before placing concrete.
- All slots, sleeves, trenches, and other embedded items shall be set and secured against movement before the concrete is placed. See Architectural, Electrical, Mechanical, Plumbing, and Vendor drawings for sizes and locations. Coordinate locations, spacing, and sizes with the Structural Engineer of Record prior to pouring concrete.
- Conduits and pipes embedded in concrete slabs may be no larger than 1/3 of the slab thickness (based on the maximum outside diameter) and shall have a center-to-center spacing no less than three (3) conduit diameters. Regardless of diameter, the minimum clear spacing between conduits or reinforcing shall be one (1) inch.
- No more than four conduits may be placed adjacent to each other without prior approval in writing from the Structural Engineer of Record.
- No aluminum conduits, devices, or fixtures may be embedded into the concrete so that the aluminum is in direct contact with the concrete.
- For slabs-on-grade, provide saw-cut control joints see the foundation plan and typical details for control joint layout and details.
- Saw-cuts shall be made as soon as the concrete can support the saw without damaging the surface (eight (8) hours max from the start of the concrete pour).
- Reinforcing steel shown in sections and detail are a schematic indication that reinforcing exists. See schedules, section notes and General Notes for actual reinforcing required.
- Pedestal, Column and Wall Vertical Reinforcing: Dowel to foundation with hooked bars of same size and spacing as vertical reinforcing.
- Submit written reports of each proposed mix design for class of concrete with concrete cylinder test results at least 15 days prior to start of work.
- All concrete that will be exposed to the weather shall have air entrainment.
- All structural concrete exposed to view to be smooth formed finished with 1/2" chamfers at all exposed edges.

ACI lap splice length (inches)													
BAR SIZE	F'c = 3000 PSI				F'c = 3500 PSI				F'c = 4000 PSI				
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	
#3	28	42	22	32	26	39	21	30	24	36	19	28	
#4	37	56	29	43	35	52	27	40	32	48	25	37	
#5	47	70	36	54	44	65	34	51	40	60	31	47	
#6	56	84	43	64	52	78	40	60	48	72	37	56	
#7	81	122	63	19	76	114	59	88	70	106	54	81	
#8	93	139	72	107	87	130	67	100	80	121	62	93	
#9	105	157	81	121	89	147	76	113	91	136	70	105	
#10	118	177	91	136	110	165	85	127	102	153	79	118	
#11	131	196	101	151	122	183	94	141	113	170	87	131	

NOTES:

- Tabulated values are based on grade 60 bars and normal weight concrete.
- Cases 1 and 2, which depend on the type of structural element, concrete cover, and the center-to-center spacing of the bars, are defined as:
 - Beams or columns:
 - Case 1: Cover at least 1.0 db and C.C. spacing of at least 2.0 db.
 - Case 2: Cover less than 1.0 db and C.C. spacing less than 2.0 db.
 - All others:
 - Case 1: Cover at least 1.0 db and C.C. spacing of at least 3.0 db.
 - Case 2: Cover less than 1.0 db and C.C. spacing less than 3.0 db.
- Top bars are horizontal beam and slab bars with more than 12" of concrete below the bars.
- For lightweight aggregate concrete, multiply the tabulated values by 1.3.
- For epoxy-coated bars, multiply the tabulated values by one of the following factors:

Concrete cover and spacing	Top bars	Other bars
Cover < 3.0 DB or C.C. spacing < 7.0 DB	1.7/1.3 = 1.31	1.50
Cover > 3.0 DB or C.C. spacing > 7.0 DB	1.20	1.20
- Bar development length = lap spliced length/ 1.3.
- Wire mesh lap
 - Lap all wire mesh cross wires one cross wire spacing plus 2", typical.

MASONRY

- Structural Masonry
 - Design Compressive Strength (f'm = 2000 PSI)
 - Concrete Masonry Units ASTM C90
 - NORMAL WT or LIGHT WT Block Contractors Option
 - Reinforcing Steel (UNO)
 - Bar Reinforcing (Typical) ASTM A615, GR60
 - Bar Reinforcing (Weldable) ASTM A706, GR60
 - Joint Reinforcement ASTM A951
 - GROUT (f'c = 3000 PSI, Self Consolidating) ASTM C476 and ASTM C109
 - Mortar, Type S
- For product material specifications, reference the structural notes, material & component design criteria and the project specification.
- Submit documentation demonstrating compliance with the specified strength of masonry, f'm, in accordance with the (grim test method or the unit strength method) as outlined in the TMS 402/602-16, Building Code Requirements for Masonry Structures, and the applicable building code. Submit product and test data as specified for level 1 quality assurance. This shall include verification of f'm both prior to construction and during as well as verification of materials and proportions for concrete masonry units, mortar and grout construction for every 5000 square feet of masonry placed.
- Submit reinforcing shop drawings showing placement of all reinforcement and embedments and the reinforcing fabrication dimensions and details.
- Place concrete units such that the vertical cells to be grouted are aligned and provided unobstructed openings for grout placement. Face shells of bed joints shall be fully mortared. webs shall be fully mortared in all courses of piers, columns and pilasters, in the starting course on foundations, when necessary to confine grout or loose-fill insulation and when otherwise noted. Head joints are to be mortared a minimum distance from each face equal to the face shell thickness of the unit. Unless otherwise required, solidly fill collar joints less than 3/4" wide with mortar as the work progresses.
- Place reinforcement and embedments in accordance with the drawings. Maintain a clear distance between the reinforcing bars and any face of masonry unit or formed surface of not less than 1/2" unless noted otherwise. Where reinforcing bar are spliced, provide a minimum lap as shown in chart below or a mechanical splice that provides 125% of the bar capacity. Tolerances for placement of reinforcing bars shall be +/- 1/2 inch perpendicular to the face of the masonry unit and within 2-inches along the length of the wall unless note otherwise. Reinforcement shall be tied in place or otherwise supported to prevent displacement during grouting.
- Place grout within 1 1/2 hours from introducing water in the mixture and prior to initial set. Grout pour height shall conform to the requirements as outlined in TMS 402/602-16, Specification for Masonry Structures, for grout type and grout space dimensions. In no case shall grout lift exceed 4 feet in height. Consolidate pours by mechanical vibration and reconsolidate by mechanical vibration after initial water loss and settlement has occurred.
- Provide #9 ladder type joint reinforcement in every bed joint (8-inch on center) for stack bond and every other joint (16-inch on center) for running bond masonry placement. Place such that longitudinal wires overlap 6-inches and are embedded in mortar with a minimum cover of 5/8".
- As a minimum, control joints in masonry walls shall be provided within 4-feet of corners, at each change of wall height or thickness and at a maximum spacing of 25-feet unless noted otherwise on drawings.
- Structural masonry shall be reinforced a specified on the drawings. All cells containing reinforcing shall be fully grouted. Provide dowels from the foundation to match the vertical reinforcing.
- At beam bearing locations, reinforce each cell below the bearing plate with typical vertical reinforcing to the top of the footing unless noted otherwise.
- When the ambient temperature falls below 40F or the temperature of the masonry units is below 40F, comply with the provisions of TMS 602, Section 1.8C, Specification for Masonry Structures, for cold weather construction.
- When the ambient temperature exceeds 90F, comply with the provisions of TMS 602, Section 1.8D, Specification for Masonry Structures, for hot weather construction.
- Brick Ties: (for stud back up)
 - There shall be a minimum of one brick tie for every 2.67 sq. ft. of wall area. These shall be spaced at a maximum of 18-inches on center. Ties shall be of a minimum 9 GA. corrosion resistant wire and shall be of an adjustable type such as DUR-O-WALL adjustable D/A 213 or equal. Corrugated galvanized sheet ties are not acceptable. All ties must be attached through the sheathing to the studs per manufacturer's recommendations.
 - Brick Ties: (for masonry backup)
 - There shall be a minimum of one brick tie for every 2.67 sq. ft. of wall area. These shall be spaced at a maximum of 18-inches vertical. Ties shall be a minimum of 3/16" diameter corrosion resistant wire. Corrugated galvanized sheet ties are not acceptable.

CMU Lap Splice Lengths
Reinforcement Off-Centered
2 Bar Per Core

MINIMUM LAP SPLICE LENGTH (INCHES)					
BAR SIZE	8" CMU	10" CMU	12" CMU	16" CMU	
#3	19	19	19	19	
#4	34	34	34	34	
#5	45	45	45	45	
#6	54	54	54	54	
#7	63	63	63	63	
#8	N/P	72	72	72	
#9	N/P	N/P	82	82	

Note:
N/P= Not Permitted

LIGHT GAUGE METAL STUDS & MISCELLANEOUS FRAMING

- Light Gauge Framing:
 - Non-Structural: ASTM c653, SS Grade 33
 - Structural (non-load bearing): ASTM c653, SS Grade 33
 - Structural (load bearing): ASTM c653, SS Grade 50
- Minimum member thickness:
 - Non-load bearing interior walls: 25 gauge (18 mil)
 - Non-load bearing exterior walls: 20 gauge (18 mil)
 - Load bearing interior and exterior walls: 18 gauge (18 mil)
- All light gauge metal studs shall be galvanized.
- All load bearing walls shall have horizontal bridging spaced at intervals not exceeding 4'-0" maximum
- Install framing using wall bracing, connection details, and door/window headers and jamba as recommended by the light gauge stud manufacturer for load bearing and/or curtain wall studs.
- For any member or connection not specified on the structural drawings, shop drawings and calculations shall be submitted bearing the seal of a professional engineering licensed in the state where the project is located. This engineer must be employed full-time by a light gauge metal supplier or by an engineering firm specializing in light gauge work with a minimum of 3 years of experience or provide evidence previous work experience in light gauge metal design.
- Light gauge shop drawings shall consist of plans, elevations, and connection details at all load bearing, partition, and curtainwall studs, headers, joists, and bracing. The submittal from the light gauge contractor must contain the following items:
 - Connection of studs and track to supporting structures
 - Connection of stud to track
 - Number of jamb studs at each opening
 - Connection of built-up studs
 - Construction of headers, including fastener spacing
 - Connection of headers to jamba
 - Bridging description/connection of bridging to studs
 - Description of shear wall blocking
- Fabrication should not begin until the shop drawings and calculations have been reviewed and approved.
- Bottom track and standard top tracks shall match the wall stud gauge. Top deflection tracks, where required, shall be one gauge thickness heavier than the wall studs.
- All load bearing & exterior stud walls shall meet the following minimum requirements (not to be treated as final design):
 - Flange width 1 1/2"
 - Flange return 1/2"
- 1A1 locations where metal studs are shown notched around bottom flanges of beam, light gage stud supplier shall devise a strengthening detail to assure that the stud works with the notch.
- See plans and typical details for shear wall, floor, and roof sheathing size and attachment pattern.
- Refer to architectural drawings for all interior, non-load bearing stud wall construction.

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SIGNED: 4/15/2025

HEFLIN POLICE STATION
 850 ROSS STREET
 HEFLIN, ALABAMA

REVISIONS
 DATE: 4/15/2025
 PROJECT # 2102
 DRAWN BY CDM.ABS
 CHECKED BY REC

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SO.0
 GENERAL NOTES
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STRUCTURAL STEEL

- 1. Structural Steel
- Wide Flange
- Channels, Angles and Plates
- Non-Shrink Grout Under Plates (f'c=8000 PSI)
- Rect. Hollow Structural Sections HSS, (Fy = 50 KSI)
- Round. Hollow Structural Sections HSS, (Fy = 46 KSI)
- Pipe, (Fy = 35 KSI)
- Bolts and Fasteners (UNO)
- Structural/Anchor Rods
- Headed Shear Studs
ASTM A992 or ASTM A572
ASTM A36 or ASTM A572
ASTM C1107, GR A
ASTM A500, GR C
ASTM A500, GR C
ASTM A53, GR B
ASTM A325
ASTM F1554, Grade 55 (Weldable)
ASTM A108, AWS D1.1, Type B

STEEL JOISTS

- 1. Steel joists shall be K series, welded type of the depth and size shown on the drawings.
2. Roof joist shall be designed for a net uplift calculated using the appropriate ultimate wind pressures in the components and cladding tables and a dead load of 6 psf.
3. Contractor shall read the latest edition of the SJI "Standard Specifications" and shall adhere to the requirements of the sections entitled, "Erection Stability and Handling" for each joist and girder series used.
4. Joist bridging shall be provided in accordance with the requirements of the Occupational Safety and Health Administration (OSHA) and SJI. Bridging requirements shall include, but shall not be limited to, the following:
A. Bridging size shall be per SJI unless specifically noted on the drawings.
B. Bottom chord bridging shall be provided per SJI requirements for the net uplift forces indicated on the drawings. As a minimum, a single line of continuous bridging shall be provided near the first bottom chord panel point at each end of the joist.
C. All joists forty (40) feet and longer shall have a row of bolted diagonal bridging in place, in accordance with OSHA requirements, before slacking of hoisting lines.
5. Joists shall be welded to supporting steel in accordance with the SJI specifications.
6. Extend top and bottom chords where noted on the drawings.
7. Provide ceiling extensions in areas where ceilings occur.
8. Bottom chord extensions shall be supplied for all joists and girders located on column grids and on the first joist line on either side of the column grid unless noted otherwise.
9. For all special joists or joist girders that require specific orientation, provide tag at one end and define location of tagged end on erection drawings.
10. Steel joists shall comply with Underwriters Laboratories design or designs as noted in the plans and specifications, including maximum allowable stresses, minimum top and bottom chord sizes, bridging requirements, compatible finishes, etc.
11. Refer to MEP/HVAC drawings for locations and weights of roof or floor mounted mechanical equipment. Joist manufacturer shall design joists to support all such loads. Contractor shall coordinate MEP/HVAC unit size, weight, and location and verify conformance with structural framing plans.
12. RTU weights, sizes, and locations shown are estimates. It is the responsibility of the contractor to verify exact loadings, sizes, and locations with the MEP contractor. Joists shall be strengthened as required to accommodate mechanical units. Shop drawings shall indicate coordinated loadings and locations.
13. Bridging shall be horizontal for K series joists "X-ed" where indicated on the plan. Joist bridging shall be sized, spaced, and installed according to SJI specifications.

STEEL DECK

- 1. The Contractor shall follow all recommended practices in the SDI manual.
2. Deck shall be galvanized steel deck unless noted otherwise on the drawings.
3. Where steel deck is part of a rated assembly, supply all deck and components, which comply with requirements of Underwriters Laboratories (UL) for each type of assembly specified, reference plans and specifications. Where deck is to receive spray fireproofing, finishes shall be compatible with fireproofing material and comply with UL assembly requirements. Before the fireproofing material is applied, the deck surface to be treated shall be free of rust, scale, oil, or other contaminants or elements which will impair bond.
4. The deck shall be fastened to supporting steel as shown on the drawings.
5. Alternate fastening options using mechanical fasteners, power-actuated, or screws may be considered, if submitted by the Contractor. Alternate systems and documentation certifying that the proposed system provides at least the same uplift and diaphragm shear resistance as the system and pattern specified must be submitted to the Structural Engineer of Record prior to use.
6. Provide a 2" minimum bearing and a 4" lap at the splice point of all pieces of deck.
7. Where possible, all decking shall be 3-span continuous, minimum. Decking specified on this project assumes a 3-span condition unless noted otherwise. The Contractor shall provide heavier gauge deck, as required, for one or two span conditions to meet equivalent load capacity of the specified deck under a 3-span condition.
8. Steel roof deck shall not be used to support load from plumbing VAC ducts, light fixtures, architectural elements, or equipment of any kind unless specifically noted.
9. Hanging any loads directly from steel roof deck shall be avoided whenever possible. Nevertheless, normal suspended acoustical ceilings with a total weight per wire not exceeding 50 lbs may be hung from the steel roof deck in cases where hanging loads from the deck cannot be avoided. If possible, the attachment should be staggered to further distribute the load. If load is directly supported by the deck, tabs or other build-in devices should be provided for hanging referenced loads.
10. Supply 8" wide, minimum, plates matching deck gauge or heavier for all ridge, valley, and change in deck direction locations, which do not fall over a supporting member at least 4" wide.

POST-INSTALLED ANCHORS

- 1. Post installed anchors shall comply with ACI-318 Chapter 17.
2. Manufacturers include but not limited to Hilti and Simpson.
3. Care shall be taken in placing Post Installed Anchors to avoid conflicts with existing rebar.
4. Holes shall be drilled and cleaned in accordance with the Manufacturer's written instructions. Substitutions requests, for products other than those shown, shall be submitted by the Contractor along with the prepared documentation demonstrating equal substitution that the product is capable of achieving equivalent performance values (minimum) of the specified product using the appropriate design procedure and/or standard(s) as required by the building code.
5. The Contractor shall follow all Manufacturer's installation guidelines, specifications, and recommendations.
6. A representative of the Post-Installed Anchor Manufacturer shall be present for the first installation for each type of anchor used to demonstrate and instruct to the Contractor installation crew and personnel the proper method of installation. Should the Contractor change the installation crew or individuals installing the anchor, the Manufacturer's representative shall be notified by the Contractor to return and provide instruction to the new installers.
7. Concrete Anchors:
A. Mechanical Anchors for use in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI-308.2 and ICC-ES AC108.
B. Adhesive anchors for use in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308.
8. Masonry Anchors:
A. Anchorage to Solid-Grouted Concrete Masonry:
a. Mechanical and concrete screw anchors for use in solid-grouted concrete masonry shall have been tested and qualified for use in accordance with ICC-ES AC01 or AC106, respectively.
b. Adhesive anchors for use in solid-grouted concrete masonry shall have been tested and qualified for use in accordance with ICC-ES AC58 or AC60, respectively.
B. Anchorage to hollow concrete masonry/unreinforced clay brick masonry:
a. Screws for use in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106.
b. Adhesive anchors with screen tubes shall be tested and qualified in accordance with ICC-ES AC58 or AC60, as appropriate. The appropriate screen tube shall be used as recommended by the adhesive manufacturer.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes terms like AB (Anchor bolt(s)), ADDL (Additional), AFF (Above finish floor), ALT (Alternate), ARCH (Architect, Architectural), B/ (Back of), BLDG (Building(s)), BLK (Block(s)), BM (Beam(s)), BOF (Bottom of footing elevation), BOT (Bottom), BRDG (Bridging), BRNG (Bearing), BRK (Brick(s)), BTWN (Between), BUR (Built-up roof), CJ (Control joint, Contraction joint, Construction joint), CL (Centerline), CLG (Ceiling), CLR (Clear), CMU (Concrete masonry unit(s)), COL (Column(s)), CONC (Concrete), CONN (Connection(s)), CONST (Construction), CONT (Continue, Continuous), CTRD (Centered), DBA (Dowel bar anchor, Deformed bar anchor), DBL (Double), DIA (Diameter), DIAG (Diagonal), DIM (Dimension), DWG (Drawing), DWGS (Drawings), DWL (Dowel(s)), E/ (Edge of, End of), EA (Each), EB (Expansion bolt(s)), EBC (Extended bottom chord), EF (Each face), EIFS (Exterior insulated finish system), EJ (Expansion joint), EL (Elevation), ELEC (Electrical), ELEV (Elevator), ENG (Engineered), EQ (Equal), EXP (Expansion), EQMT (Equipment), EW (Each way), EWJ (Engineered wood I-joist), EXST (Existing), EXT (Exterior), F/ (Face of), FD (Floor drain), FDN (Foundation), FIN FLR (Finish floor elevation), FS (Far side), FT (Foot, Feet), FTG (Footing), GA (Gage, Gauge), GALV (Galvanized), GLB (Glue-laminated beam), GR BM (Grade beam), GR (Grade), GYP BD (Gypsum board), HD (Headed, Heavy duty), HDR (Header), HI (High), HK (Hook), HORIZ (Horizontal), HP (High point), HR (Handrail), HS (Headed stud), HSS (Hollow steel section), HVAC (Heating, ventilation, & air conditioning), ID (Inside diameter), IN (Inch, Inches), INSUL (Insulate, insulation), INT (Interior), INV (Invert), JBE (Joist bearing elevation), JST (Joist(s)), JT (Joint), K (Kips) (1,000 pounds), LF (Linear foot, Linear feet), LG (Light Gauge), LLH (Long leg horizontal), LLO (Long leg outstanding), LLV (Long leg vertical), LO (Low), LP (Low point), LT (Left, Light), LT WT (Lightweight), MAS (Masonry), MATL (Material), MAX (Maximum), MECH (Mechanical), MFR (Manufacturer), MIN (Minimum), MISC (Miscellaneous), MO (Masonry opening), MPH (Miles per hour), MTL (Metal), N (North), NIC (Not-in-contract), NOM (Nominal), NS (Near side), NSG (Non-shrink grout), NTS (Not-to-scale), NUM (Number), OC (On-center), OD (Outside diameter, Outside dimension), OH (Opposite hand, Overhead), OPNG (Opening(s)), OPP (Opposite), PAR (Parallel), PC (Precast, Precast concrete), PDF (Power driven fastener), PL (Plate, Property line), PLF (Pounds per linear foot), PLYWD (Plywood), PNL (Panel), PROJ (Project, Projection), PSF (Pounds per square foot), PSI (Pounds per square inch), PTD (Painted), PVMT (Pavement), QTY (Quantity), R (Radius), RAD (Radius), RD (Roof drain), REBAR (Reinforcing bar), REF (Reference), REINF (Reinforce, Reinforcing, Reinforcement), REQD (Required), REV (Revise, Revision), RH (Right hand), RO (Rough opening), S (South), SC (Slotted connection, Slip connection), SCH (Schedule), SECT (Section), SF (Square feet), SHT (Sheet), SHTG (Sheathing), SIM (Similar), SJ (Saw joint), SK (Shear key), SP (Space(s), Southern Pine), SPECS (Specifications), SQ (Square), SS (Stainless steel), SSL (Short slotted hole), STD (Standard), STF (Stiffener), STL (Steel), STR (Straight), STRUCT (Structural), SYM (Symmetrical), T&B (Top & bottom), T&G (Tongue & groove), THK (Thick, Thickness), THRD (Threaded), THRU (Through), TM (Top-of-masonry elevation), TOB (Top-of-beam elevation), TOC (Top-of-concrete elevation), TOF (Top-of-footing elevation), TOS (Top-of-steel elevation), TP (Top-of-parapet elevation), TW (Top-of wall elevation), TYP (Typical), UNO (Unless noted otherwise), VERT (Vertical), W/ (With), W/O (Without), WB (Wind bracing), WCJ (CMU wall control joint), WD (Wood), WP (Working point), WPR (Waterproofing), WS (Waterstop), WWF (Welded wire fabric)

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SIGNED: 4/15/2025

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Table with 2 columns: DATE and REVISIONS. Includes project details like PROJECT # 2102, DRAWN BY CDM.ABS, CHECKED BY REC.

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STRUCTURAL SPECIAL INSPECTIONS:

VERIFICATION AND INSPECTION	REFERENCED STANDARDS	IBC REFERENCE	SERVICES	EXTENT
1. IBC 2018 SECTION 1704.2.5 – INSPECTION OF FABRICATORS				
1. VERIFY FABRICATION/QUALITY CONTROL PROCEDURES.			IN-PLANT	ONCE
2. IBC 2018 SECTION 1705.2.1 – SPECIAL INSPECTION FOR STRUCTURAL STEEL				
1. INSPECTION TASKS PRIOR TO WELDING	AISC 360: TABLE N5.4-1			
A. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS		IN-FIELD	PERIODIC	
B. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE		IN-FIELD	CONTINUOUS	
C. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		IN-FIELD	CONTINUOUS	
D. MATERIAL IDENTIFICATION (TYPE/GRADE)		IN-FIELD	PERIODIC	
E. WELDER IDENTIFICATION SYSTEM		IN-FIELD	PERIODIC	
F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)				
a. JOINT PREPARATION		IN-FIELD	PERIODIC	
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)		IN-FIELD	PERIODIC	
c. CLEANLINESS (CONDITION OF STEEL SURFACES)		IN-FIELD	PERIODIC	
d. TACKING (TACK WELD QUALITY AND LOCATION)		IN-FIELD	PERIODIC	
e. BACKING TYPE AND FIT (IF APPLICABLE)		IN-FIELD	PERIODIC	
G. FIT-UP OF CJP WELDS TO HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)				
a. JOINT PREPARATION		IN-FIELD	PERIODIC	
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)		IN-FIELD	PERIODIC	
c. CLEANLINESS (CONDITION OF STEEL SURFACES)		IN-FIELD	PERIODIC	
d. TACKING (TACK WELD QUALITY AND LOCATION)		IN-FIELD	PERIODIC	
e. BACKING TYPE AND FIT (IF APPLICABLE)		IN-FIELD	PERIODIC	
H. CONFIGURATION AND FINISH OF ACCESS HOLES		IN-FIELD	PERIODIC	
I. FIT-UP OF FILLET WELDS				
a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	IN-FIELD	PERIODIC		
b. CLEANLINESS (CONDITION OF STEEL SURFACES)	IN-FIELD	PERIODIC		
c. TACKING (TACK WELD QUALITY AND LOCATION)	IN-FIELD	PERIODIC		
J. CHECK WELDING EQUIPMENT	IN-FIELD	PERIODIC		
2. INSPECTION TASKS DURING WELDING	AISC 360: TABLE 5.4-2			
A. USE OF QUALIFIED WELDERS		IN-FIELD	PERIODIC	
B. CONTROL AND HANDLING OF WELDING CONSUMABLES				
a. PACKAGING		IN-FIELD	PERIODIC	
b. EXPOSURE CONTROL		IN-FIELD	PERIODIC	
C. NO WELDING OVER CRACKED TACK WELDS		IN-FIELD	PERIODIC	
D. ENVIRONMENTAL CONDITIONS				
a. WIND SPEED WITHIN LIMITS		IN-FIELD	PERIODIC	
b. PRECIPITATION AND TEMPERATURE		IN-FIELD	PERIODIC	
E. WPS FOLLOWED				
a. SETTINGS ON WELDING EQUIPMENT		IN-FIELD	PERIODIC	
b. TRAVEL SPEED		IN-FIELD	PERIODIC	
c. SELECTED WELDING MATERIALS		IN-FIELD	PERIODIC	
d. SHIELDING GAS TYPE/FLOW RATE		IN-FIELD	PERIODIC	
e. PREHEAT APPLIED		IN-FIELD	PERIODIC	
f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)		IN-FIELD	PERIODIC	
g. PROPER POSITION (F, V, H, OH)		IN-FIELD	PERIODIC	
F. WELDING TECHNIQUES				
a. INTERPASS AND FINAL CLEANING		IN-FIELD	PERIODIC	
b. EACH PASS WITH PROFILE LIMITATIONS		IN-FIELD	PERIODIC	
c. EACH PASS MEETS QUALITY REQUIREMENTS	IN-FIELD	PERIODIC		
G. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	IN-FIELD	CONTINUOUS		
3. INSPECTION TASKS AFTER WELDING	AISC 360: TABLE N5.4-3			
A. WELDS CLEANED		IN-FIELD	PERIODIC	
B. SIZE, LENGTH, AND LOCATION OF WELDS		IN-FIELD	CONTINUOUS	
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA				
a. CRACK PROHIBITION		IN-FIELD	CONTINUOUS	
b. WELD/BASE-METAL FUSION		IN-FIELD	CONTINUOUS	
c. CRATER CROSS SECTION		IN-FIELD	CONTINUOUS	
d. WELD PROFILES		IN-FIELD	CONTINUOUS	
e. WELD SIZE		IN-FIELD	CONTINUOUS	
f. UNDERCUT		IN-FIELD	CONTINUOUS	
g. POROSITY		IN-FIELD	CONTINUOUS	
D. ARC STRIKES		IN-FIELD	CONTINUOUS	
E. K-AREA		IN-FIELD	CONTINUOUS	
F. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES		IN-FIELD	CONTINUOUS	
G. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)		IN-FIELD	CONTINUOUS	
H. REPAIR ACTIVITIES		IN-FIELD	CONTINUOUS	
I. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		IN-FIELD	CONTINUOUS	
J. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE E.O.R.		IN-FIELD	PERIODIC	

4. NONDESTRUCTIVE TESTING	AISC 360: N5.5				
A. ULTRASONIC TESTING ON CJP (RISK CAT II)	AISC 360: N5.5b		IN-FIELD	PERIODIC	
B. ULTRASONIC TESTING ON CJP (RISK CAT III OR IV)	AISC 360: N5.5b		IN-FIELD	CONTINUOUS	
C. RADIOGRAPHIC OR ULTRASONIC INSPECTION OF WELDED JOINTS SUBJECT TO FATIGUE	AISC 360: N5.5c, APP 3, TABLE A3.1		IN-FIELD	CONTINUOUS	
5. INSPECTION TASKS PRIOR TO BOLTING					
A. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	AISC 360: TABLE N5.6-1		IN-FIELD	CONTINUOUS	
B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		IN-FIELD	PERIODIC		
C. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		IN-FIELD	PERIODIC		
D. CORRECT BOLTING PROCEDURES SELECTED FOR JOINT DETAIL		IN-FIELD	PERIODIC		
E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		IN-FIELD	PERIODIC		
F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		IN-FIELD	PERIODIC		
G. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		IN-FIELD	PERIODIC		
6. INSPECTION TASKS DURING BOLTING		AISC 360: TABLE N5.6-2			
A. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED			IN-FIELD	PERIODIC	
B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION			IN-FIELD	PERIODIC	
C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	IN-FIELD		PERIODIC		
D. FASTENERS ARE PRE-TENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	IN-FIELD	PERIODIC			
7. INSPECTION TASKS AFTER BOLTING	AISC 360: TABLE N5.6-3				
A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		IN-FIELD	CONTINUOUS		
8. OTHER STEEL INSPECTIONS					
A. INSPECT FABRICATED STEEL OR STEEL FRAMES TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS	AISC 360: SECTION N5.8		IN-FIELD	PERIODIC	
B. INSPECT ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS		IN-FIELD	PERIODIC		
C. REDUCED BEAM SEGMENT SECTION (RBS) REQUIREMENTS (IF APPLICABLE)			IN-FIELD	PERIODIC	
a. CONTOUR AND FINISH	AISC 341: TABLE J8-1		IN-FIELD	CONTINUOUS	
b. DIMENSIONAL TOLERANCES		IN-FIELD	CONTINUOUS		
c. PROTECTED ZONE-NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR AS APPLICABLE		IN-FIELD	CONTINUOUS		
D. INSPECTION OF PILING – H PILES	AISC 341: TABLE J10-1				
a. PROTECTED ZONE-NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY THE RESPONSIBLE CONTRACTOR, AS APPLICABLE		IN-FIELD	CONTINUOUS		
9. STEEL ELEMENTS OF COMPOSITE CONSTRUCTION					
A. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT					
a. MATERIAL IDENTIFICATION OF REINFORCEMENT STEEL (TYPE/GRADE)	AISC 341: TABLE J9-1		IN-FIELD	PERIODIC	
b. DETERMINATION OF CARBON EQUIVALENT FOR REINFORCING STEEL OTHER THAN ASTM A706		IN-FIELD	PERIODIC		
c. PROPER REINFORCING STEEL SIZE, SPACING AND ORIENTATION		IN-FIELD	PERIODIC		
d. REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD		IN-FIELD	PERIODIC		
e. REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED		IN-FIELD	PERIODIC		
f. REQUIRED REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED		IN-FIELD	PERIODIC		
g. COMPOSITE MEMBER HAS REQUIRED SIZE		IN-FIELD	PERIODIC		
B. INSPECTION OF STEEL ELEMENTS OF COMPOSITE STRUCTURES DURING CONCRETE PLACEMENT	AISC 341: TABLE J9-2				
a. CONCRETE: MATERIAL IDENTIFICATION (MIX DESIGN, COMPRESSIVE STRENGTH, MAXIMUM LARGE AGGREGATE SIZE, MAXIMUM SLUMP)		IN-FIELD	PERIODIC		
b. LIMITS ON WATER ADDED AT THE TRUCK OR PUMP		IN-FIELD	PERIODIC		
c. PROPER PLACEMENT TECHNIQUES TO LIMIT SEGREGATION		IN-FIELD	PERIODIC		
C. INSPECTION OF STEEL ELEMENTS OF COMPOSITE STRUCTURES AFTER CONCRETE PLACEMENT	AISC 341: TABLE J9-3				
a. ACHIEVEMENT OF MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH AT SPECIFIED AGE		IN-FIELD	PERIODIC		
3. IBC 2018 1705.2.2 – REQUIRED VERIFICATION AND INSPECTION OF COLD FORMED STEEL DECK					
1. MATERIAL VERIFICATION OF COLD FORMED STEEL DECK					
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	SD1 QA/QC		SUBMITTAL	PERIODIC	
B. MANUFACTURER'S CERTIFIED TEST REPORTS		SUBMITTAL	PERIODIC		
4. IBC 2018 TABLE 1705.2.3 – REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB JOISTS AND JOIST GIRDERS					
1. INSTALLATION OF OPEN-WEB STEEL JOIST AND GIRDERS.					
A. END CONNECTIONS – WELDING OR BOLTED.	2207.1		SUBMITTAL	PERIODIC	
B. BRIDGING – HORIZONTAL OR DIAGONAL.					
a. STANDARD BRIDGING	2207.1		SUBMITTAL	PERIODIC	
b. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1					

5. IBC 2018 TABLE 1705.3 – REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION				
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4	IN-FIELD	PERIODIC
2. REINFORCING STEEL				
A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	ACI 318 SECTION 26.6.4		IN-FIELD	PERIODIC
B. INSPECT SINGLE-PASS FILLET WELD, MAXIMUM 5/16"	AWS D1.4		IN-FIELD	CONTINUOUS
C. INSPECT ALL OTHER WELDS.			IN-FIELD	CONTINUOUS
3. INSPECT ANCHOR CAST IN CONCRETE	ACI 318 17.8.2		IN-FIELD	PERIODIC
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS			IN-FIELD	PERIODIC
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	ACI 318: 17.8.2.4, 17.8.2		IN-FIELD	PERIODIC
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a			IN-FIELD	PERIODIC
5. VERIFYING USE OF REQUIRED DESIGN MIX	ACI 318: CH 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	IN-FIELD	PERIODIC
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10	IN-FIELD	CONTINUOUS
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	ACI 318: 26.5	1908.6, 1908.7, 1908.8	IN-FIELD	CONTINUOUS
8. VERIFY FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND APPLICATION TECHNIQUES	ACI 318: 26.5.3 – 26.5.5	1908.9	IN-FIELD	PERIODIC
9. INSPECTION OF PRESTRESSED CONCRETE				
A. APPLICATION OF PRESTRESSING FORCES	ACI 318: 26.10		IN-FIELD	CONTINUOUS
B. GROUTING OF BONDED PRESTRESSING TENDONS		IN-FIELD	CONTINUOUS	
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	ACI 318: 26.9		IN-FIELD	PERIODIC
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	ACI 318: 26.11.2		IN-FIELD	PERIODIC
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSION OF THE CONCRETE MEMBER BEING FORMED	ACI 318: 26.1.2(b)		IN-FIELD	PERIODIC
6. IBC 2018 1705.4 – REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION				
1. MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS IN THE REFERENCED CODES .	TMS 402/ TMS 602	1705.4		
7. IBC 2018 1705.5, 1705.10 & 1705.11 – REQUIRED VERIFICATION AND INSPECTION OF WOOD CONSTRUCTION				
1. INSPECTION OF THE FABRICATION PROCESS OF WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES		1704.2.5	IN-SHOP	PERIODIC
2. FOR HIGH LOAD DIAPHRAGMS, VERIFICATION OF GRADE AND THICKNESS OF STRUCTURAL PANEL SHEATHING			IN-FIELD	PERIODIC
3. FOR HIGH-LOAD DIAPHRAGMS, VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL OR STAPLE DIAMETER AND LENGTH, NUMBER OF FASTENER LINES, AND THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREES WITH APPROVED CONSTRUCTION DOCUMENTS			IN-FIELD	PERIODIC
8. IBC 2018 TABLE 1705.6 – REQUIRED VERIFICATION AND INSPECTION OF SOILS				
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY			IN-FIELD	PERIODIC
2. VERIFY EXCAVATION ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL			IN-FIELD	PERIODIC
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS			IN-FIELD	PERIODIC
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL			IN-FIELD	CONTINUOUS
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY			IN-FIELD	PERIODIC

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SIGNED: 4/15/2025

HEFLIN POLICE STATION
 850 ROSS STREET
 HEFLIN, ALABAMA

REVISIONS
 DATE: 4/15/2025
 PROJECT # 2102
 DRAWN BY CDM.ABS
 CHECKED BY REC



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SPECIAL INSPECTIONS
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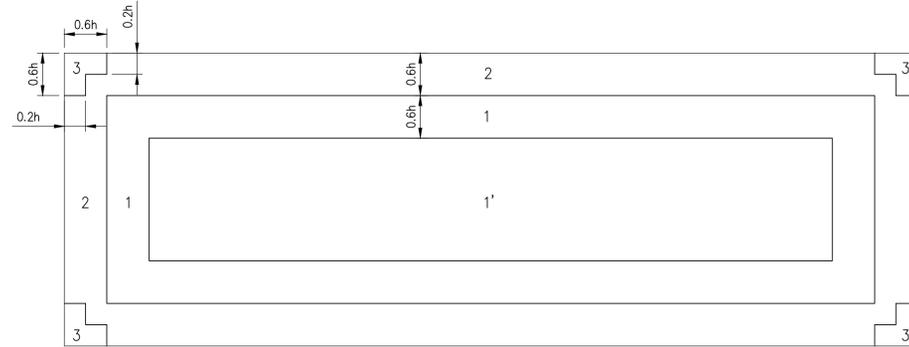
ULT. ROOF WIND PRESSURE (PSF)				
AREA	ZONE 1'	ZONE 1	ZONE 2	ZONE 3
TOP & BOTTOM SURFACES COMBINED				
10SF	-34.16	-59.47	-78.45	-78.45
20SF	-34.16	-55.55	-73.41	-73.41
50SF	-34.16	-50.36	-66.74	-66.74
100SF	-46.44	-46.44	-61.69	-61.69
200SF	-29.40	-42.51	-56.65	-56.65
500SF	-23.11	-37.33	-49.98	-49.98

a= 7.8ft 0.2h= 7.4ft 0.6h= 22.2ft

ULT. WALL WIND PRESSURE (PSF)				ULT. PARAPET WIND PRESSURE (PSF)								
WIND AREA	ZONE 4		ZONE 5		ZONE 4&2		ZONE 4&3		ZONE 5&2		ZONE 5&3	
	WIN	LEE	WIN	LEE	WIN	LEE	WIN	LEE	WIN	LEE	WIN	LEE
10SF	34.16	-37.01	34.16	-45.55	55.78	-55.78	94.44	-94.44	63.75	-63.75	94.44	-94.44
20SF	32.65	-35.50	32.65	-42.53	52.95	-52.95	88.32	-88.32	59.51	-59.51	88.32	-88.32
50SF	30.65	-33.50	30.65	-38.52	49.22	-49.22	80.23	-80.23	53.91	-53.91	80.23	-80.23
100SF	29.14	-31.98	29.14	-35.50	46.40	-46.40	74.11	-74.11	49.68	-49.68	74.11	-74.11
200SF	27.62	-30.47	27.62	-32.47	43.57	-43.57	68.00	-68.00	45.44	-45.44	68.00	-68.00
500SF	25.62	-28.47	25.62	-28.47	39.84	-39.84	59.91	-59.91	39.84	-39.84	59.91	-59.91

FOR WALLS: WIN IS WINDWARD FACE
LEE IS LEEWARD FACE
+ TOWARDS
- AWAY

FOR PARAPETS: WIN IS CASE A = p1+p2
LEE IS CASE B = p3+p4



ROOF ZONES



WALL ZONES

COMPONENTS AND CLADDING DIAGRAMS



LIVE OAK
ENGINEERING

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LOE JOB #246-3

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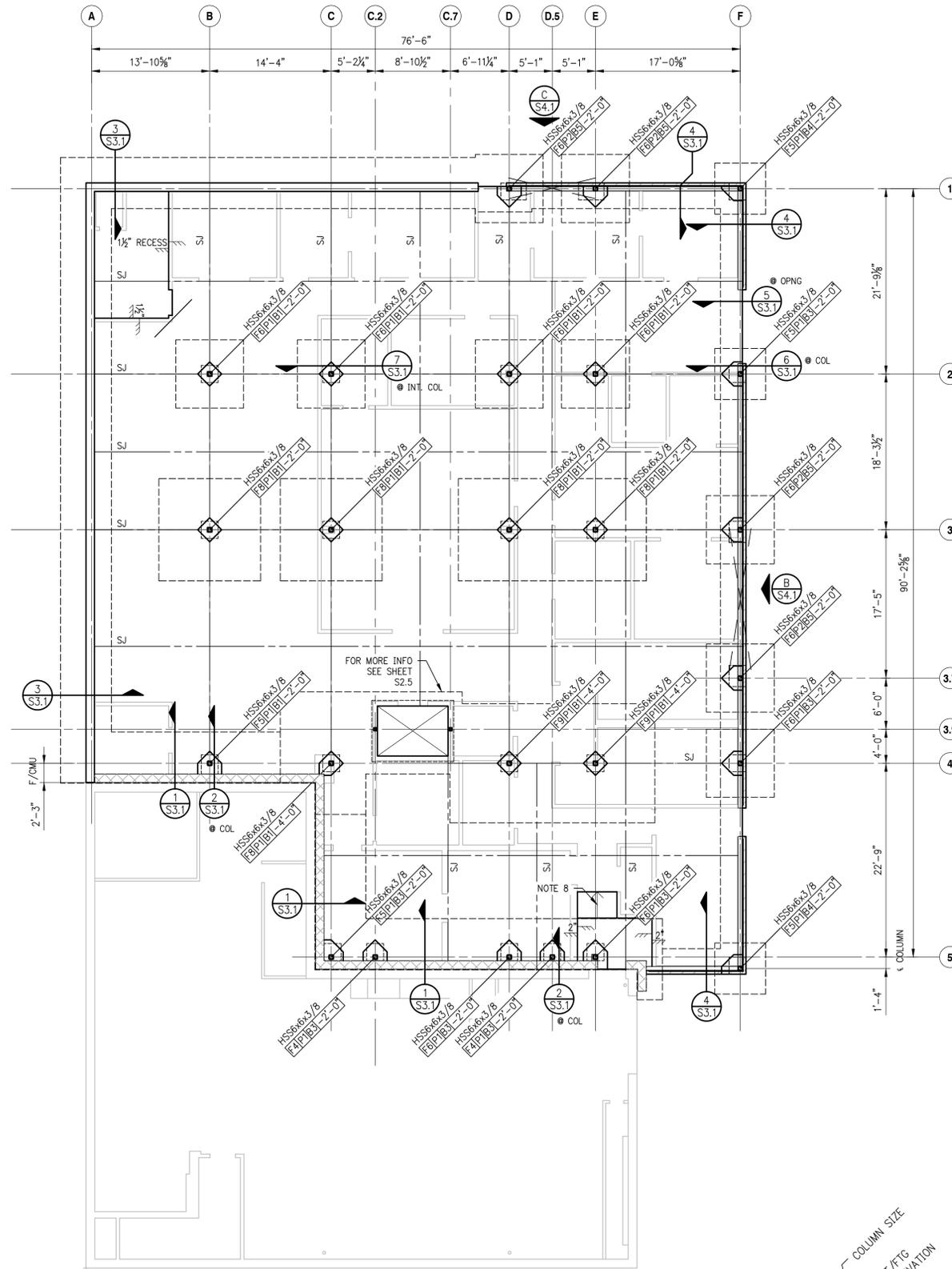
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HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

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COMPONENTS & CLADDING
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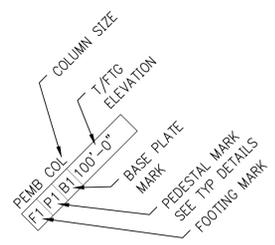


- FOUNDATION PLAN NOTES:**
- SLAB ON GRADE CONSTRUCTION: (FIN FLR= 0'-0")
 - 5" NORMAL WEIGHT CONCRETE REINFORCED w/6x6-W2.9xW2.9 IN OFFICE AREA. SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
 - TOP OF FOOTING ELEVATION, SEE PLAN.
 - ALL DIMENSIONS ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWING BEFORE CONSTRUCTION ARE TO BEGIN. SEE ARCHITECTURAL DRAWING FOR DIMENSIONS NOT SHOWN.
 - GENERAL CONTRACTOR TO COORDINATE WITH (MEP) MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS FOR ANY AND ALL LOCATIONS OF SLEEVED OPENINGS IN FOUNDATION WALLS.
 - DO NOT BEGIN DEMOLITION OR EXCAVATION WORK UNTIL EXISTING STRUCTURE HAS BEEN ADEQUATELY SHORED TO SUPPORT EVERY LEVEL. SHORING SHALL REMAIN IN PLACE UNTIL ALL NEW STRUCTURAL ELEMENTS SHOWN HAVE BEEN INSTALLED. REFER TO "EXISTING CONSTRUCTION" NOTES ON SO.0 FOR ADDITIONAL REQUIREMENTS.
 - CONTRACTOR TO VERIFY EXISTING FOOTING SIZE, THICKNESS, AND DEPTH PRIOR TO CONSTRUCTION OF NEW FOOTING AND STEM WALL. CONTACT STRUCTURAL ENGINEER OF RECORD WITH ANY MODIFICATIONS REQUIRED BASED ON THE EXISTING FOUNDATIONS.
 - FEATHERED CONCRETE RAMP. 1:12 SLOPE

- MASONRY WALL NOTES (TYPICAL UNLESS NOTED OTHERWISE):**
- STRUCTURAL CONCRETE MASONRY WALLS TO BE NOMINALLY 12" THICK AND REINFORCED FROM FOOTING TO TOP OF WALL UNO. GROUT REINFORCED CELLS SOLID. REINFORCE AND GROUT SOLID AT CORNERS, OPENINGS, CHAMPS, AND END OF WALLS. SEE S2.2 & S2.3.
 - FOUNDATION DOWEL SPACING TO MATCH VERTICAL REINFORCEMENT.
 - MASONRY CONTROL JOINTS SHALL OCCUR, SEE DETAIL 4/S2.2.
 - REINFORCEMENT TO BE DISCONTINUOUS ACROSS CONTROL JOINTS.
 - FOR 12" WALLS (2)#5 @ 24" O.C. FILL CELLS SOLID WITH GROUT.
 - FOR 12" WALL CORNER (2)#5 EACH CELL, THREE CELLS.
 - FOR 12" WALL CONTROL JOINTS (2)#5 EACH CELL, TWO CELLS EACH SIDE OF JOINT.
 - FOR 12" WALL JAMB (2)#5 EACH CELL, TWO CELLS EACH SIDE OF JAMB.
 - PROVIDE BOND BEAMS AT 4'-0" VERTICALLY AT ALL MASONRY WALLS.
 - PROVIDE VERTICAL HOOK INTO TOP BOND BEAM FOR ALL VERTICAL BARS.
 - GROUT SOLID ALL MASONRY BELOW GRADE.

FOR MORE INFO SEE SHEET S2.5

NOTE 8



PAD FOOTING SCHEDULE		
MARK	FOOTING SIZE	REINFORCEMENT
F4	4'-0"x4'-0"x1'-6"	(6)#6 EW T&B
F5	5'-0"x5'-0"x1'-6"	(7)#6 EW T&B
F6	6'-0"x6'-0"x1'-6"	(8)#6 EW T&B
F8	8'-0"x8'-0"x1'-6"	(10)#6 EW T&B
F9	9'-0"x9'-0"x1'-6"	(11)#6 EW T&B

FOUNDATION PLAN (BASEMENT)
 1/8"=1'-0"

COLUMN LABEL LEGEND



SIGNED: 4/15/2025

HEFLIN POLICE STATION
 850 ROSS STREET
 HEFLIN, ALABAMA

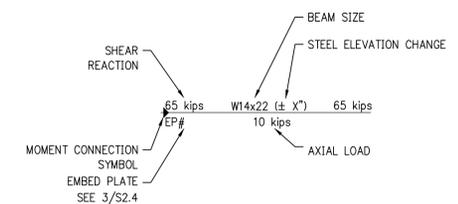
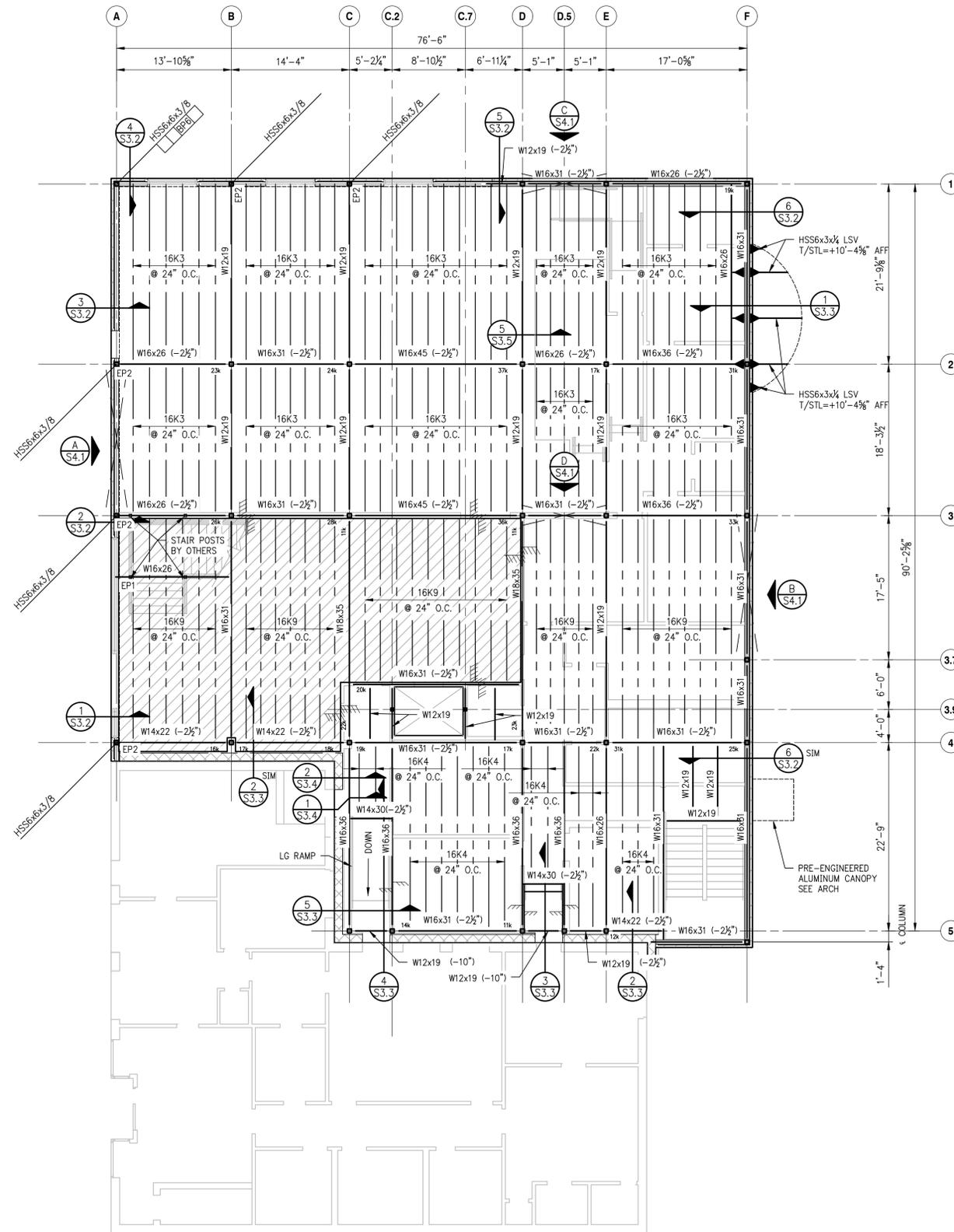
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FOUNDATION PLAN
S1.1
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NOTES:
 1. REACTIONS SHOWN ON PLAN ARE MAXIMUM REACTIONS FACTORED AS NOTED IN THE GENERAL NOTES. MINIMUM DESIGN REACTIONS 12 kips.
 2. SEE GENERAL NOTES FOR CONNECTION DESIGN REQUIREMENTS.
 3. SPACE HEADED STUDS ALONG BEAM EQUALLY AS NOTED IN THE GENERAL NOTES AND TYPICAL DETAILS.

MASONRY WALL NOTES (TYPICAL UNLESS NOTED OTHERWISE):
 1. STRUCTURAL CONCRETE MASONRY WALLS TO BE NOMINALLY 12" THICK AND REINFORCED FROM FOOTING TO TOP OF WALL UNO. GROUT REINFORCED CELLS SOLID. REINFORCE AND GROUT SOLID AT CORNERS, OPENINGS, CHAMPS, AND END OF WALLS. SEE S2.2 & S2.3.
 2. FOUNDATION DOWEL SPACING TO MATCH VERTICAL REINFORCEMENT.
 3. MASONRY CONTROL JOINTS SHALL OCCUR, SEE DETAIL 4/S2.2.
 4. REINFORCEMENT TO BE DISCONTINUOUS ACROSS CONTROL JOINTS.
 5. FOR 12" WALLS (2)#5 @ 24" O.C. FILL CELLS SOLID WITH GROUT.
 6. FOR 12" WALL CORNER (2)#5 EACH CELL, THREE CELLS.
 7. FOR 12" WALL CONTROL JOINTS (2)#5 EACH CELL, TWO CELLS EACH SIDE OF JOINT.
 8. FOR 12" WALL JAMB (2)#5 EACH CELL, TWO CELLS EACH SIDE OF JAMB.
 9. PROVIDE BOND BEAMS AT 4'-0" VERTICALLY AT ALL MASONRY WALLS.
 10. PROVIDE VERTICAL HOOK INTO TOP BOND BEAM FOR ALL VERTICAL BARS.
 11. GROUT SOLID ALL MASONRY BELOW GRADE.

FLOOR FRAMING PLAN NOTES:
 TOP OF STEEL = 11'-4 3/8" AFF
 1. DECK CONSTRUCTION: 5" TOTAL NORMAL WEIGHT CONCRETE, 1 1/2" DEEP, 18GA, WIDE RIB (TYPE "C" GALVANIZE DECK ON STEEL JOISTS AND BEAMS. SEE PLANS, TYPICAL DETAILS AND GENERAL NOTES FOR ADDITIONAL INFORMATION.
 2. BRIDGING FOR STEEL JOISTS NOT SHOWN ON PLAN. PROVIDE BRIDGING AS SHOWN IN STEEL JOIST SHOP DRAWINGS OR AS REQUIRED BY SJI.
 3. COORDINATE LOCATIONS AND WEIGHTS OF MECHANICAL EQUIPMENT AND OPENINGS IN ROOF DECK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. SEE TYPICAL DETAILS FOR ADDITIONAL FRAMING REQUIREMENTS.
 4. [Hatched Area] - 4" TOTAL SLAB w/1" THICK FLOORING PER ARCH.

A 1st FLOOR FRAMING PLAN
 S1.2 1/8"=1'-0"

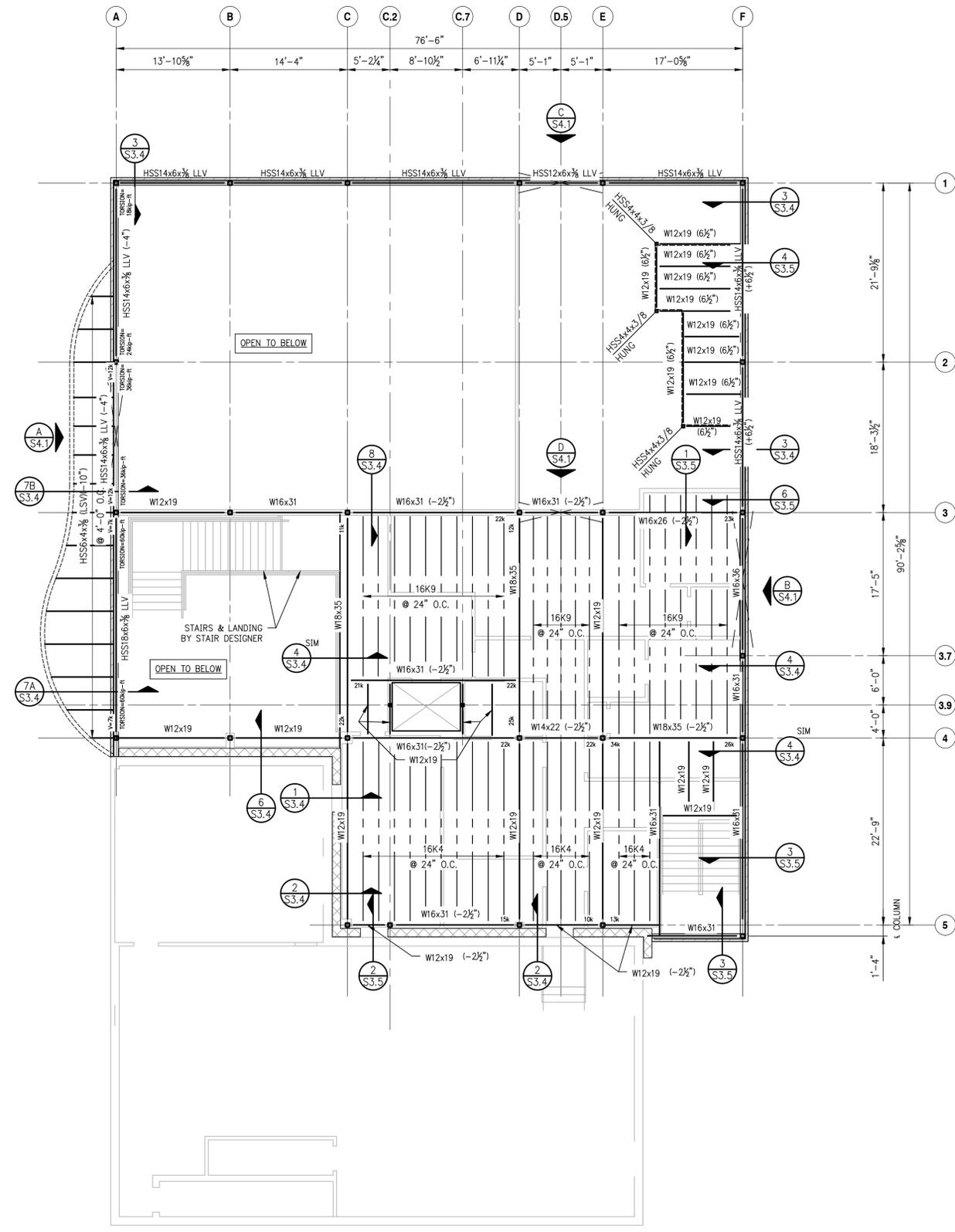


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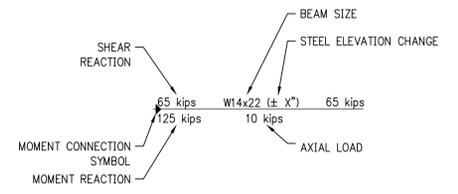
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 BIRMINGHAM, AL 35233
 205.637.3115
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1st FLOOR FRAMING PLAN
S1.2
 13 of 97



A
S1.3
2nd FLOOR FRAMING PLAN
1/8"=1'-0"



NOTES:
 1. REACTIONS SHOWN ON PLAN ARE MAXIMUM REACTIONS FACTORED AS NOTED IN THE GENERAL NOTES. MINIMUM DESIGN REACTIONS 12 kips.
 2. SEE GENERAL NOTES FOR CONNECTION DESIGN REQUIREMENTS.
 3. SPACE HEADED STUDS ALONG BEAM EQUALLY AS NOTED IN THE GENERAL NOTES AND TYPICAL DETAILS.

MASONRY WALL NOTES (TYPICAL UNLESS NOTED OTHERWISE):
 1. STRUCTURAL CONCRETE MASONRY WALLS TO BE NOMINALLY 12" THICK AND REINFORCED FROM FOOTING TO TOP OF WALL UNO. GROUT REINFORCED CELLS SOLID. REINFORCE AND GROUT SOLID AT CORNERS, OPENINGS, CHAMPS, AND END OF WALLS. SEE S2.2 & S2.3.
 2. FOUNDATION DOWEL SPACING TO MATCH VERTICAL REINFORCEMENT.
 3. MASONRY CONTROL JOINTS SHALL OCCUR, SEE DETAIL 4/S2.2.
 4. REINFORCEMENT TO BE DISCONTINUOUS ACROSS CONTROL JOINTS.
 5. FOR 12" WALLS (2)#5 @ 24" O.C. FILL CELLS SOLID WITH GROUT.
 6. FOR 12" WALL CORNER (2)#5 EACH CELL, THREE CELLS.
 7. FOR 12" WALL CONTROL JOINTS (2)#5 EACH CELL, TWO CELLS EACH SIDE OF JOINT.
 8. FOR 12" WALL JAMB (2)#5 EACH CELL, TWO CELLS EACH SIDE OF JAMB.
 9. PROVIDE BOND BEAMS AT 4'-0" VERTICALLY AT ALL MASONRY WALLS.
 10. PROVIDE VERTICAL HOOK INTO TOP BOND BEAM FOR ALL VERTICAL BARS.
 11. GROUT SOLID ALL MASONRY BELOW GRADE.

FLOOR FRAMING PLAN NOTES:
 TOP OF STEEL= 2'-3 1/4" AFF
 1. DECK CONSTRUCTION: 5" TOTAL NORMAL WEIGHT CONCRETE, 1 1/2" DEEP, 18GA, WIDE RIB (TYPE "C") GALVANIZE DECK ON STEEL JOISTS AND BEAMS. SEE PLANS, TYPICAL DETAILS AND GENERAL NOTES FOR ADDITIONAL INFORMATION.
 2. BRIDGING FOR STEEL JOISTS NOT SHOWN ON PLAN. PROVIDE BRIDGING AS SHOWN IN STEEL JOIST SHOP DRAWINGS OR AS REQUIRED BY SJI.
 3. COORDINATE LOCATIONS AND WEIGHTS OF MECHANICAL EQUIPMENT AND OPENINGS IN ROOF DECK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. SEE TYPICAL DETAILS FOR ADDITIONAL FRAMING REQUIREMENTS.

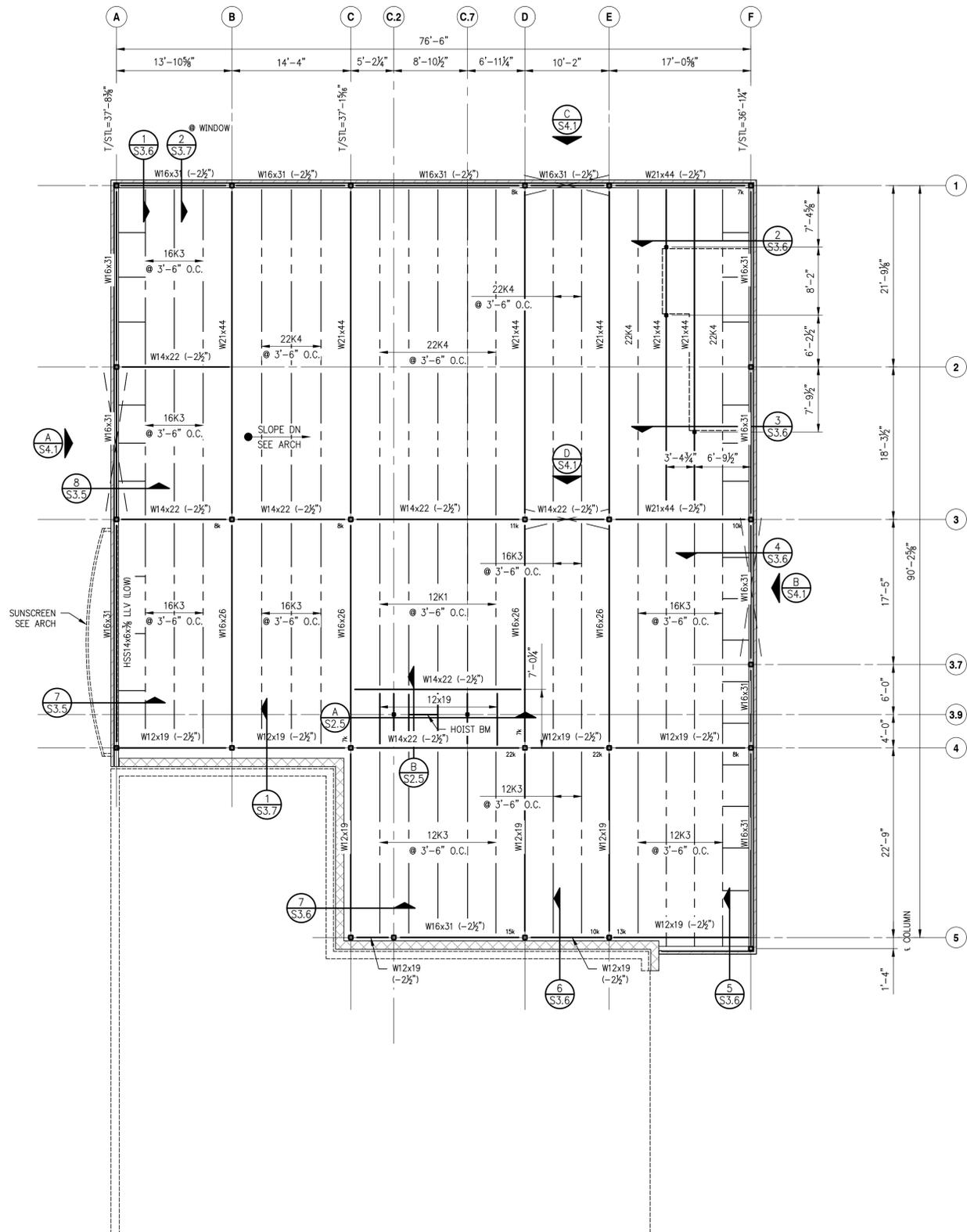


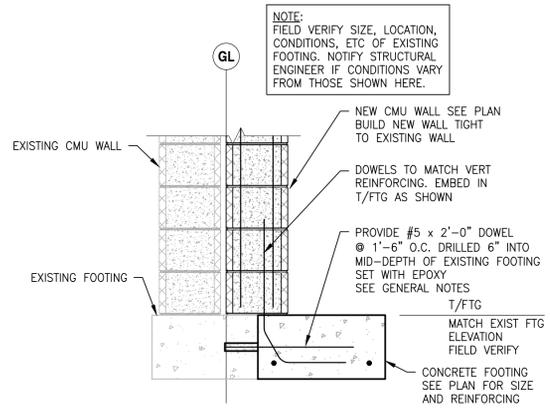
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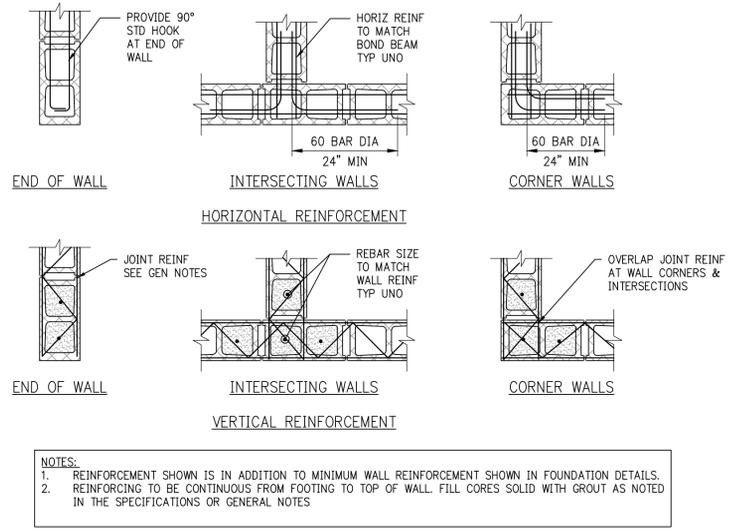
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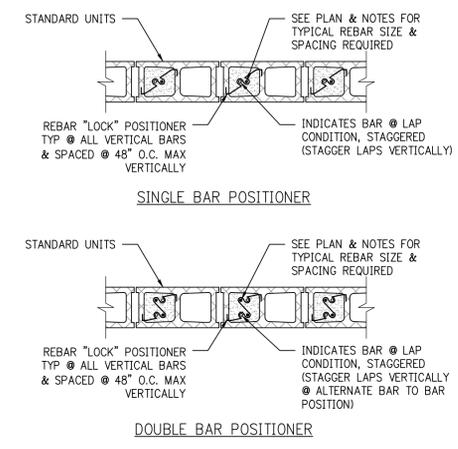




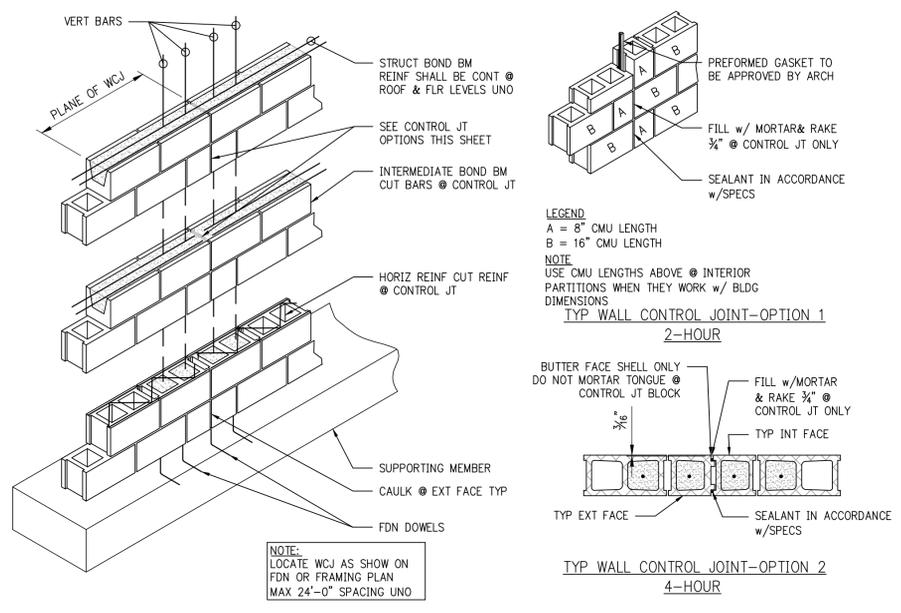
1 SECTION-NEW FOOTING TO PARALLEL EXISTING FOOTING
S2.2 N.T.S.



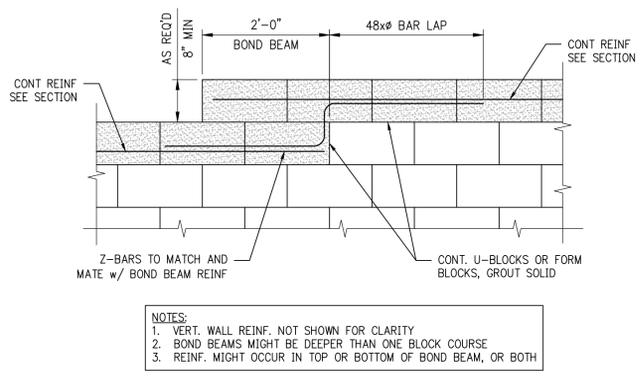
2 TYP MASONRY WALL INTERSECTIONS
S2.2 N.T.S.



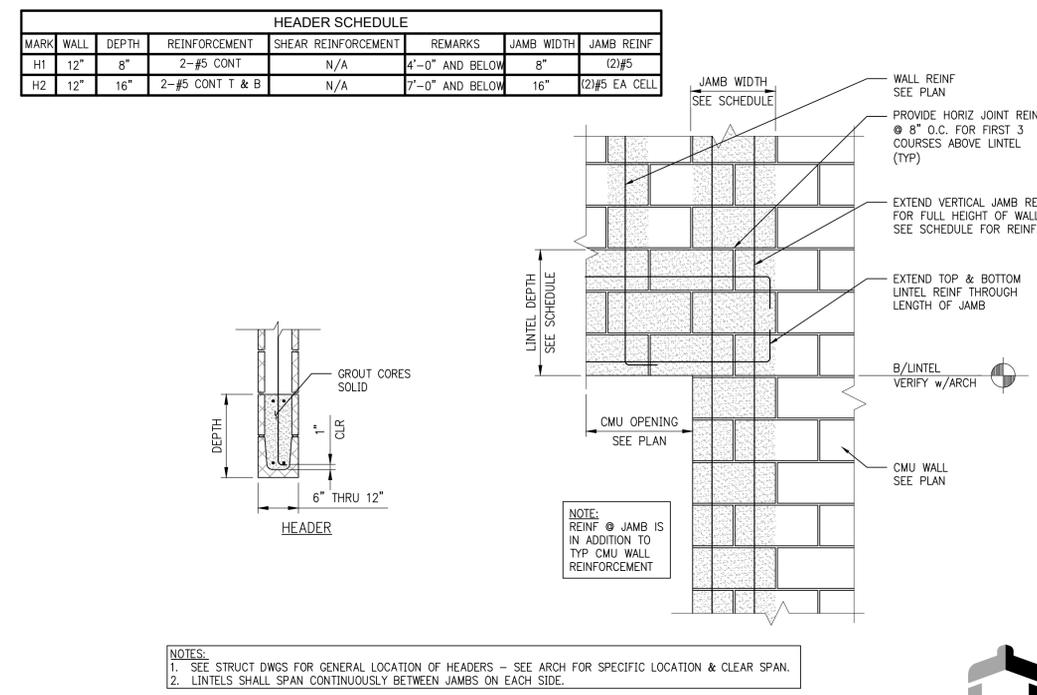
3 TYP MASONRY WALL REINFORCEMENT POSITIONERS
S2.2 N.T.S.



4 TYP MASONRY WALL CONTROL JOINT (WCJ)
S2.2 N.T.S.



5 TYP BOND BEAM STEP DETAIL
S2.2 N.T.S.



6 MASONRY LINTEL & JAMB REINFORCEMENT SCHEDULE
S2.2 N.T.S.

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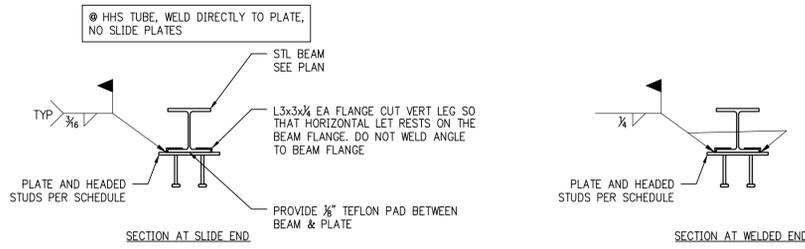


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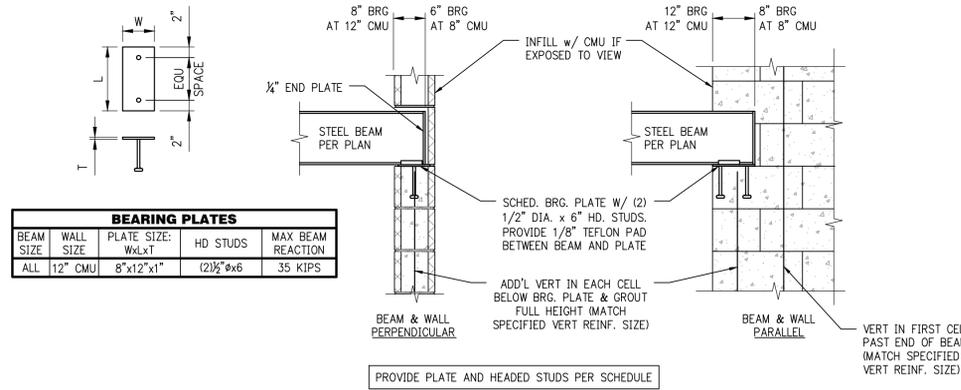
HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

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DATE: 4/15/2025
PROJECT # 2102
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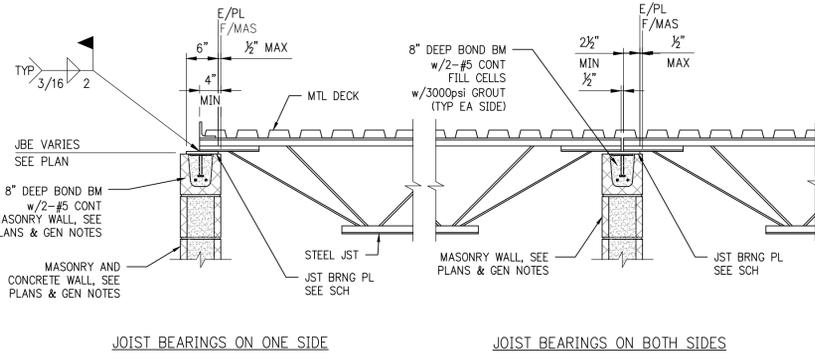
TYPICAL DETAILS
S2.2
17 of 97



NOTE:
BEAMS BEARING BOTH ENDS ON MASONRY WALLS SHALL HAVE A "SLIDE END" AND "WELDED END" PER DETAILS. WHERE ONLY ONE END OF THE BEAM IS BEARING ON CMU, OMIT THE "SLIDE END" AND ONLY USE THE "WELDED END".



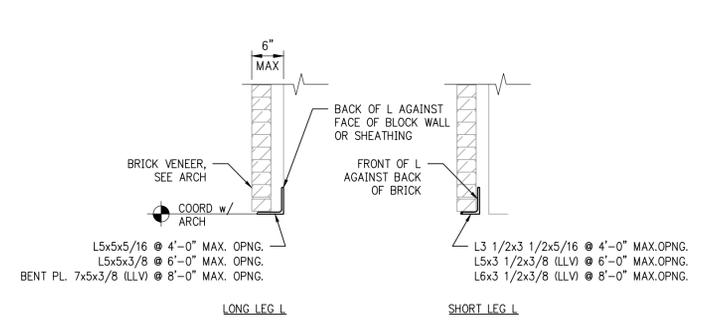
1 STEEL BEAM BEARING ON MASONRY WALL DETAIL
S2.3 N.T.S.



BEARING PLATE SCHEDULE *		
	JST ONE SIDE	JST 2 SIDES
12" CMU	1/2"x6"x0'-8"	3/8"x11"x1'-6"

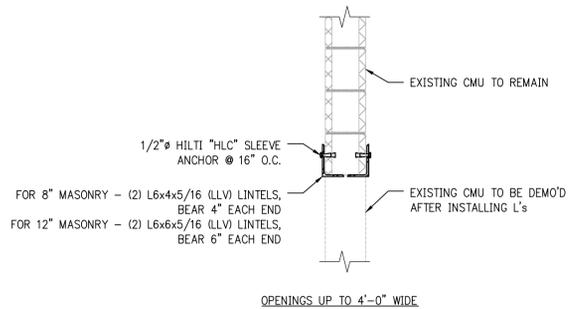
*ALL BRNG PL TO HAVE 2-1/2" #4 HD STUDS

2 STEEL JOISTS BEARING ON MASONRY AND CONCRETE
S2.3 N.T.S.



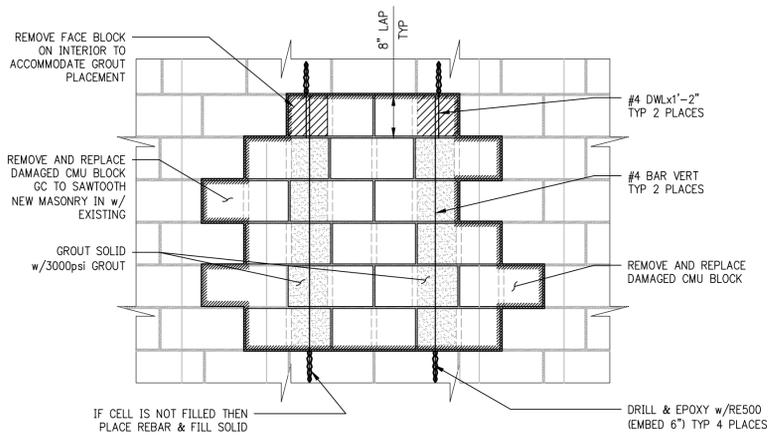
- NOTES:
- BEAR LINTELS 6" MIN. EACH SIDE OF OPENING
 - AT ARCHED OPENINGS, ROLL LINTEL TO RADIUS REQ'D. (CUT, BEND & WELD HORIZ. AT BEARING)
 - PROVIDE LIGHT-GAUGE METAL CLOSURE AT LOOSE LINTELS WHERE REQUIRED TO CLOSE GAP BEHIND LINTEL.
 - COORDINATE BRICK LIP REQUIREMENTS WITH ARCHITECTURAL DRAWINGS WHERE REQUIRED TO MAINTAIN SPECIFIED JOINT THICKNESS

3 TYPICAL LOOSE LINTEL DETAILS
S2.3 N.T.S.

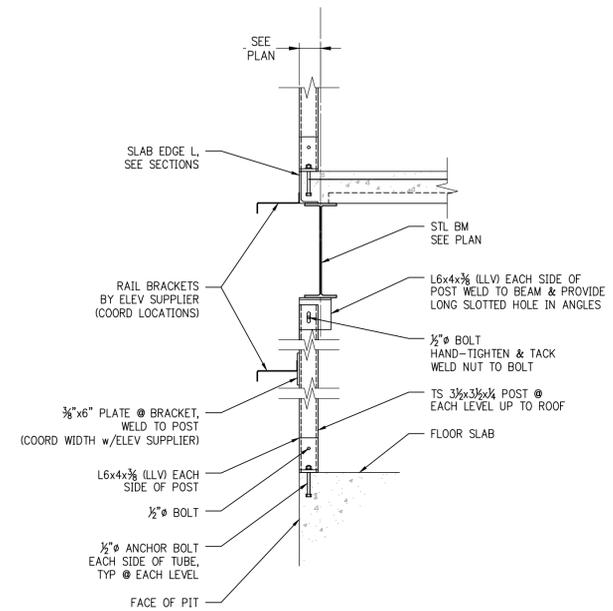


- NOTES:
- SHORE WALL & SUPPORTED FRAMING ABOVE UNTIL LINTEL INSTALLATION IS COMPLETE.
 - SAW-CUT VERTICALLY (8" DEEP +/-) ALONG THE PROPOSED JAMB LOCATIONS. DO NOT OVER CUT
 - SAW-CUT (4" DEEP +/-) HORIZONTALLY ALONG THE MORTAR JOINT ABOVE THE PROPOSED OPENING HEAD (ON ONE FACE OF WALL ONLY). OVER-CUT 6" PAST JAMBS ON EACH SIDE.
 - INSTALL STEEL ANGLE AND HILTI ANCHORS ON CUT FACE OF WALL.
 - REPEAT STEPS 3 & 4 ON THE OTHER FACE OF WALL.
 - SAW-CUT HORIZONTALLY (8" DEEP +/-) BELOW THE PROPOSED OPENING ON BOTH FACES OF WALL. DO NOT OVER CUT
 - CAREFULLY REMOVE THE CMU FROM WITHIN NEW OPENING & TRIM-OUT WITH WOOD OR METAL BLOCKING IF REQUIRED.

4 NEW OPENING IN EXISTING MASONRY WALL
S2.3 N.T.S.



5 MASONRY INFILL OR EXISTING WALL
S2.3 N.T.S.



6 ELEVATOR RAIL LATERAL SUPPORT DETAIL
S2.3 NONE

- NOTES:
- THIS ADDITIONAL SUPPORT FOR RAILS MAY NOT BE REQUIRED. COORDINATE WITH ELEVATOR SUPPLIER PRIOR TO BID FOR ALL RAIL AND BRACKET SUPPORT REQUIREMENTS.
 - POSTS HAVE NOT BEEN SHOWN ON PLANS. COORDINATE ACTUAL QUANTITY & LOCATIONS WITH ELEVATOR SUPPLIER.
 - POSTS ARE NOT INTENDED TO SUPPORT THE FLOOR OR ROOF STRUCTURE AND SHALL BE INSTALLED ONLY AFTER ALL ELEVATED CONCRETE SLABS ARE POURED.
 - COORDINATE WITH ELEVATOR SUPPLIER FOR ADDL MISC STEEL REQUIRED.
 - WALL STUDS OMITTED FOR CLARITY. LOCATE POSTS IN STUD SPACE.

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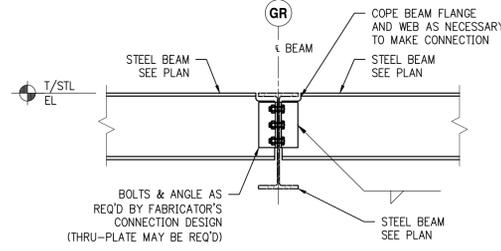
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HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

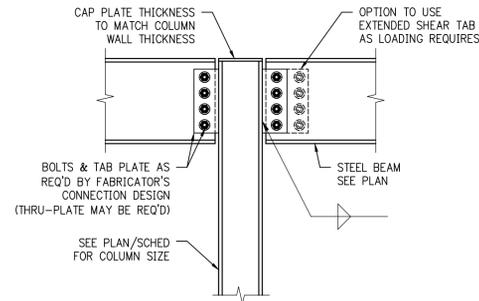
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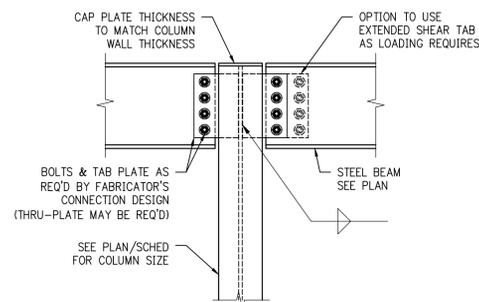
TYPICAL DETAILS
S2.3
18 OF 97



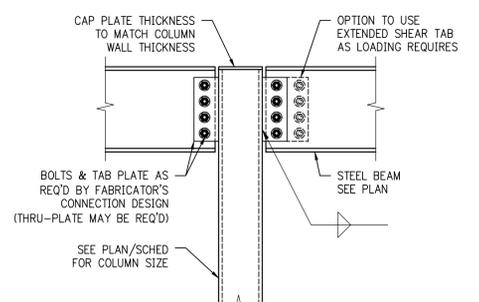
1 TYP BEAM TO SHEAR
S2.4 N.T.S. CONN DETAIL



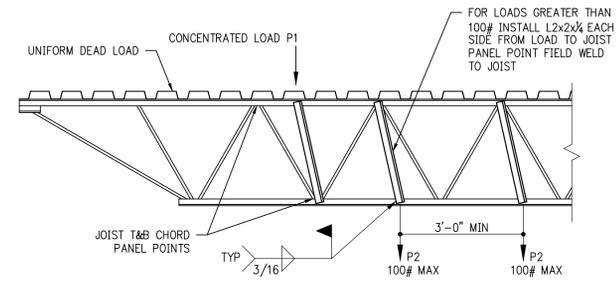
4 TYP SHEAR CONNECTION
S2.4 N.T.S. TO COLUMN DETAIL



5 TYP JOIST REINFORCING POINT
S2.4 N.T.S. LOADING DETAIL



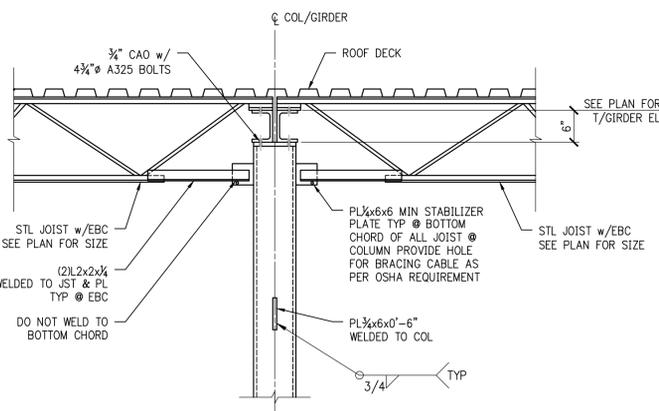
6 TYP JOIST TO HSS COLUMN
S2.4 N.T.S. CONNECTION DETAIL



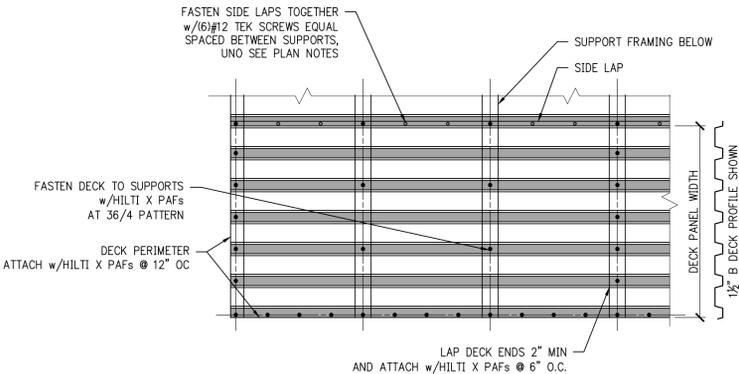
2 TYP HSS BEAM TO HSS COL CONN DETAIL
S2.4 N.T.S.

NOTES FOR CONCENTRATED HANGING LOADS:

- ALL HANGER LOADS SHOULD BE APPLIED ALONG THE CENTERLINE OF THE JOIST CHORD (i.e. NO ECCENTRICITY).
- HANGER LOADS APPLIED AT ANY NON-PANEL POINT ALONG THE JOIST CHORD SHALL NOT EXCEED 100 POUNDS AND SHALL BE SPACED A MINIMUM OF 36" APART. LOADS GREATER THAN 100 POUNDS MUST BE APPLIED AT PANEL POINT, OR ADDITIONAL BRACING MUST BE ATTACHED FROM LOAD TO TOP CHORD PANEL POINT AS SHOWN.
- THE SUM TOTAL OF ALL HANGING LOADS APPLIED TO ANY ONE JOIST SHALL NOT EXCEED 1000 POUNDS AND NO SINGLE LOAD SHALL EXCEED 2/3 OF THIS AMOUNT.
- PIPING, DUCTWORK, LIGHTS, CONDUIT RUNS, ETC. MAY BE HUNG FROM TWO OR MORE JOISTS TO MEET THESE REQUIREMENTS.
- CALCULATION OF ACTUAL HANGER LOADS MUST INCLUDE THE WEIGHT OF ALL MECHANICAL, ELECTRICAL OR ANY OTHER TRADE'S EQUIPMENT, PIPING, DUCTWORK, INSULATION, CONDUIT, LIGHTS, ETC. INCLUDING WEIGHT OF HANGING SYSTEM USED. CONSIDER ALL PIPING TO BE FILLED WITH WATER AND ALL CONDUIT RUNS TO WEIGH TWICE THEIR UNFILLED WEIGHT.

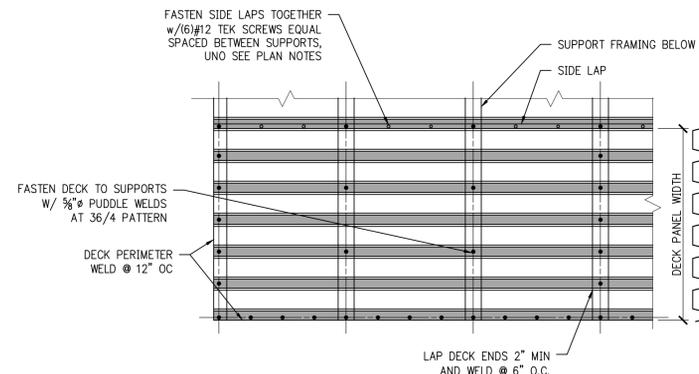


7 1 1/2" FLOOR DECK
S2.4 N.T.S. ATTACHMENT DETAIL



NOTES:

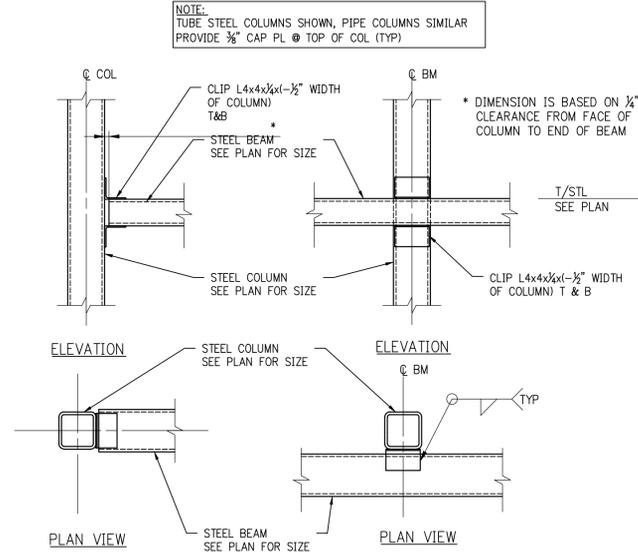
- G.C. COORDINATE PROPER PAF WITH CONNECTING MATERIAL PER PRODUCT SPECIFICATION
- DECK LENGTH TO BE A MINIMUM OF 3 SPANS BETWEEN SUPPORTS.



NOTES:

- ALL WELDS ARE 3/8\"/>

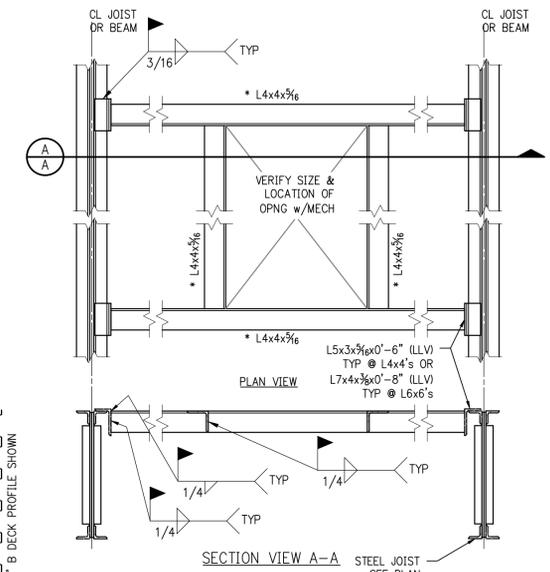
8 1 1/2" ROOF DECK WELDING
S2.4 N.T.S. ATTACHMENT DETAIL



NOTES:

- SEE PLAN FOR TOP OF BEAM ELEVATION.
- TOP OF EMBED PLATE SHALL NOT EXTEND ABOVE THE TOP EDGE OF CONCRETE WALL, BEAM OR COLUMN. WHEN OTHERWISE POSSIBLE, PLATE SHALL BE LOCATED VERTICALLY TO ALIGN MID-HT. OF PLATE WITH MID-HT. OF BEAM AS CLOSELY AS STRUCTURE GEOMETRY PERMITS.
- FABRICATOR SHALL DESIGN ALL BEAM CONNECTIONS TO EMBED PLATES TO INCLUDE MAXIMUM REACTION ECCENTRICITY

3 TYPICAL STEEL BEAMS TO CONCRETE
S2.4 N.T.S. CONNECTIONS DETAIL



NOTES:

- USE L6x6x3/8 @ 8'-0" TO 10'-0" OC JOIST OR BEAM SPACING LOCATIONS.
- USE L6x6x3/8 @ OPENING SPANS GREATER THAN 8'-0" LOCATIONS.
- FOR OPENINGS 8'-0" OR GREATER, CONSULT WITH STRUCTURAL ENGINEER.
- ROOF DECK TO BE ATTACHED PER PLAN NOTES TO ALL OPENING COMPONENT MEMBERS
- SHOWN HERE (ROOF DECK NOT SHOWN IN THESE VIEWS).
- COMPOSITE DECK TO BE ATTACHED PER PLAN NOTES TO ALL OPENING COMPONENT MEMBERS SHOWN HERE (COMPOSITE DECK NOT SHOWN IN THESE VIEWS).
- PROVIDE DECK CLOSURE PERIMETER OF OPENINGS IN COMPOSITE SLAB.

9 TYP DECK OPENING DETAIL
S2.4 N.T.S.

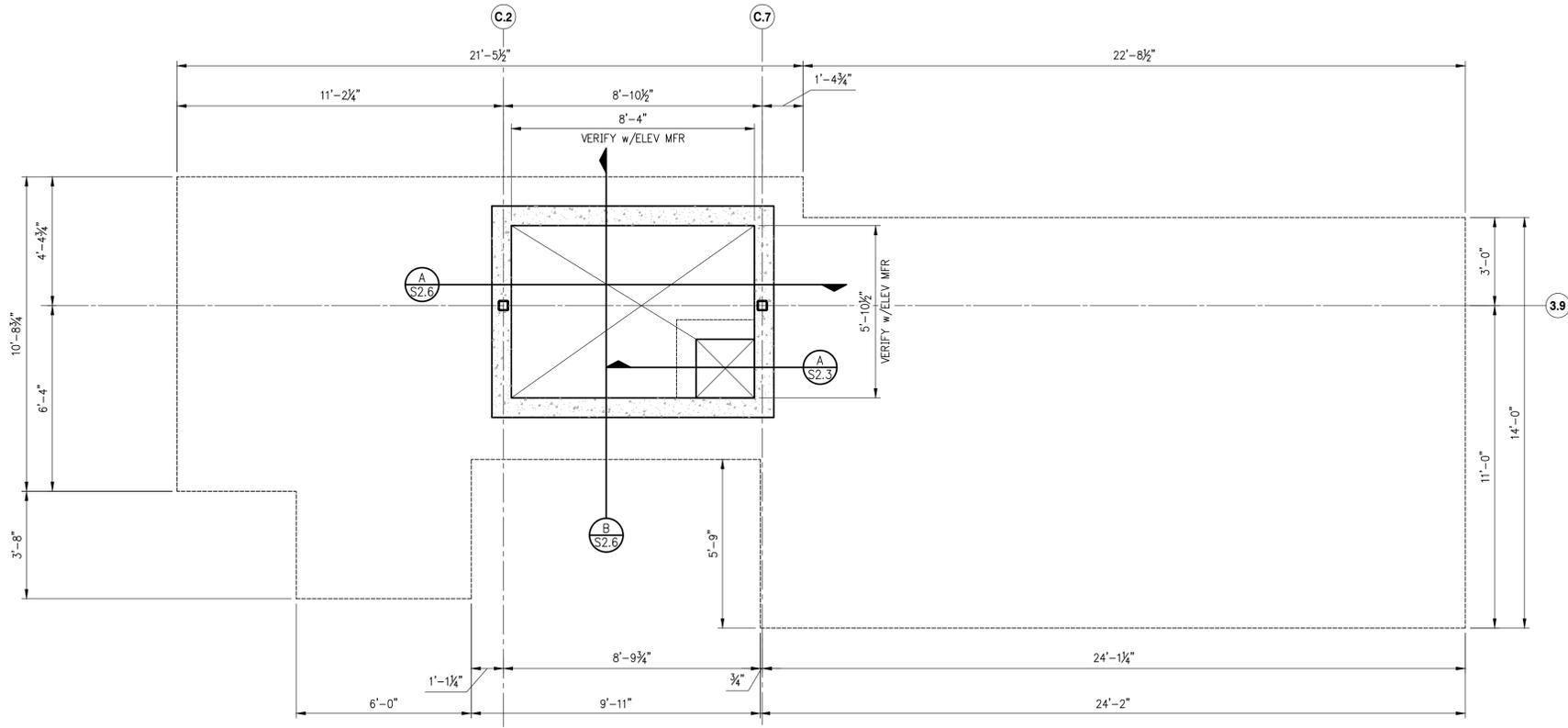


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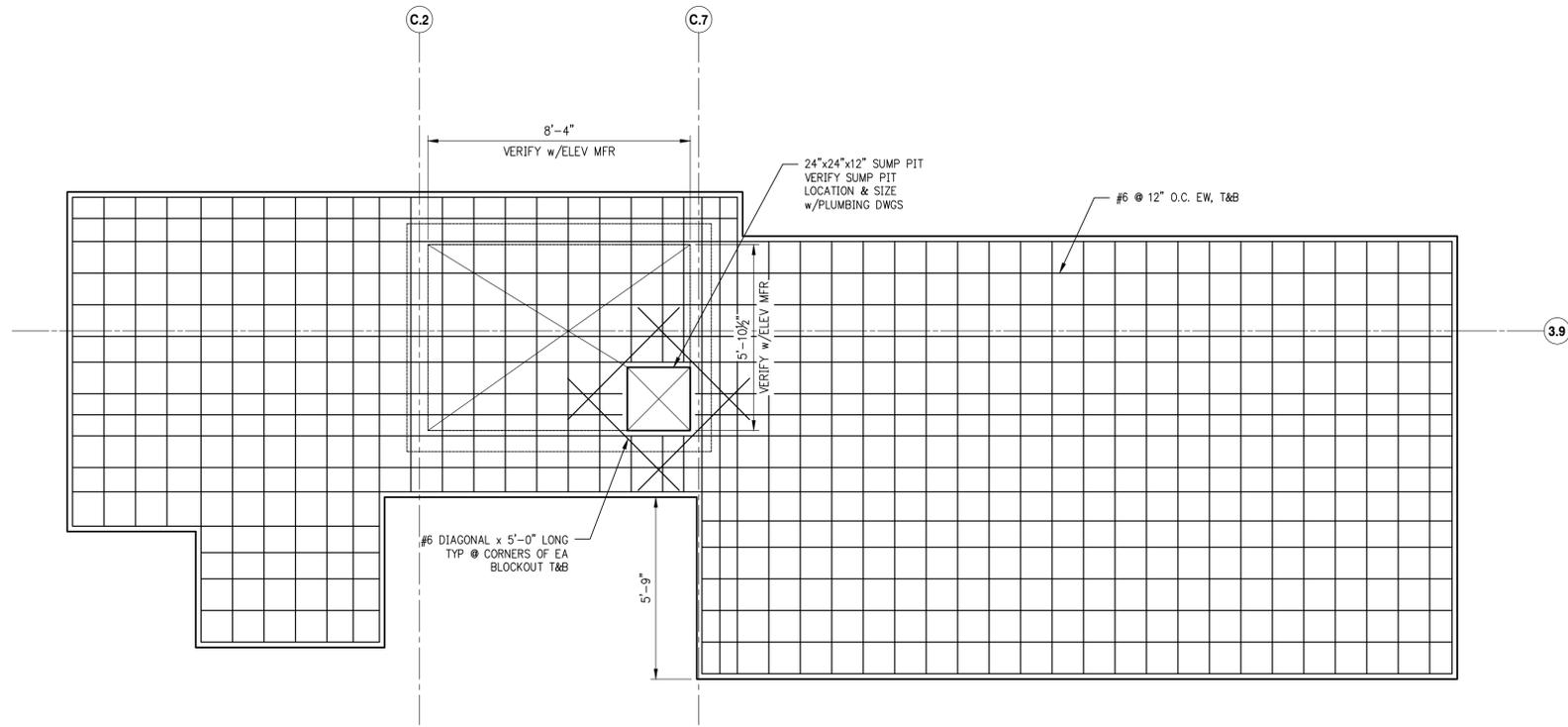
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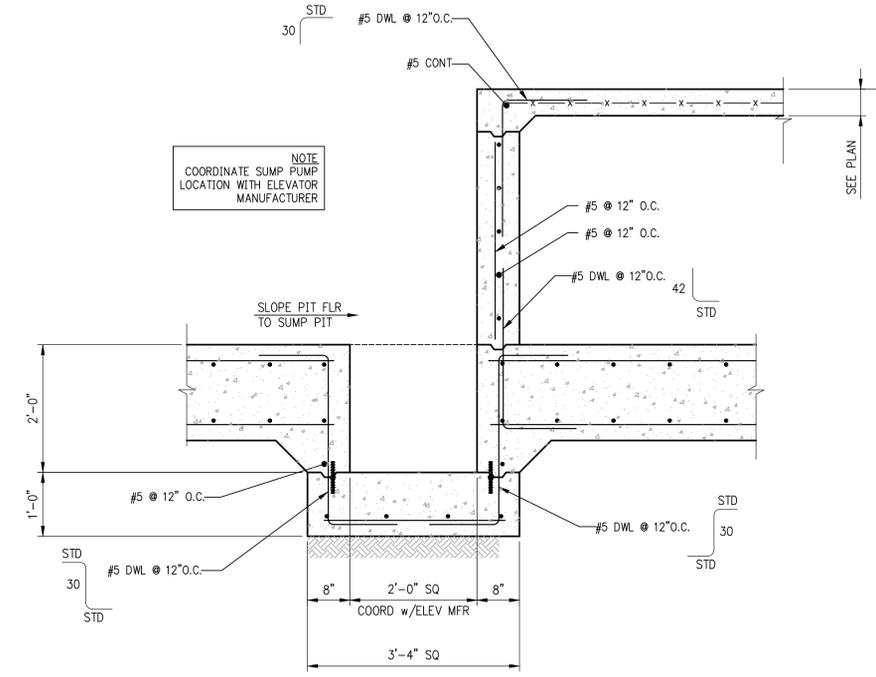
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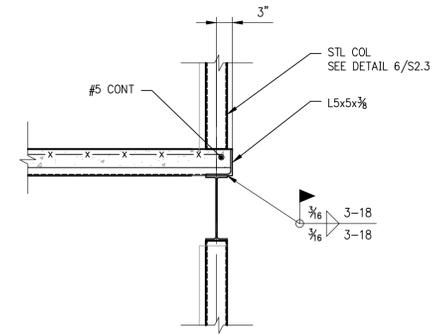
1 ELEVATOR PIT PLAN
S2.5 NTS



2 ELEVATOR SLAB DETAIL
S2.5 NTS



A ELEVATOR SUMP PIT DETAIL
S2.5 3/4" = 1'-0"



B DETAIL - TYP SLAB EDGE
S2.5 3/4" = 1'-0"



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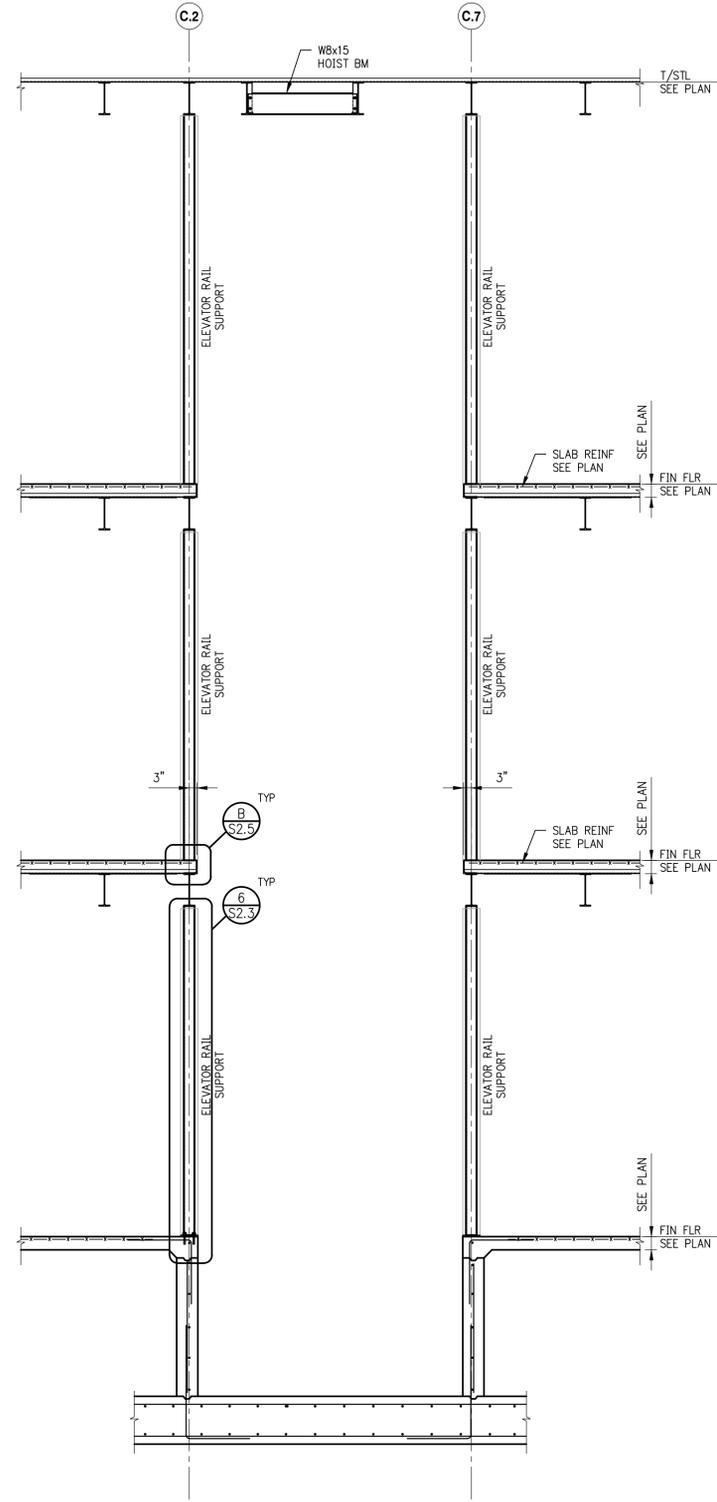


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HEFLIN, ALABAMA

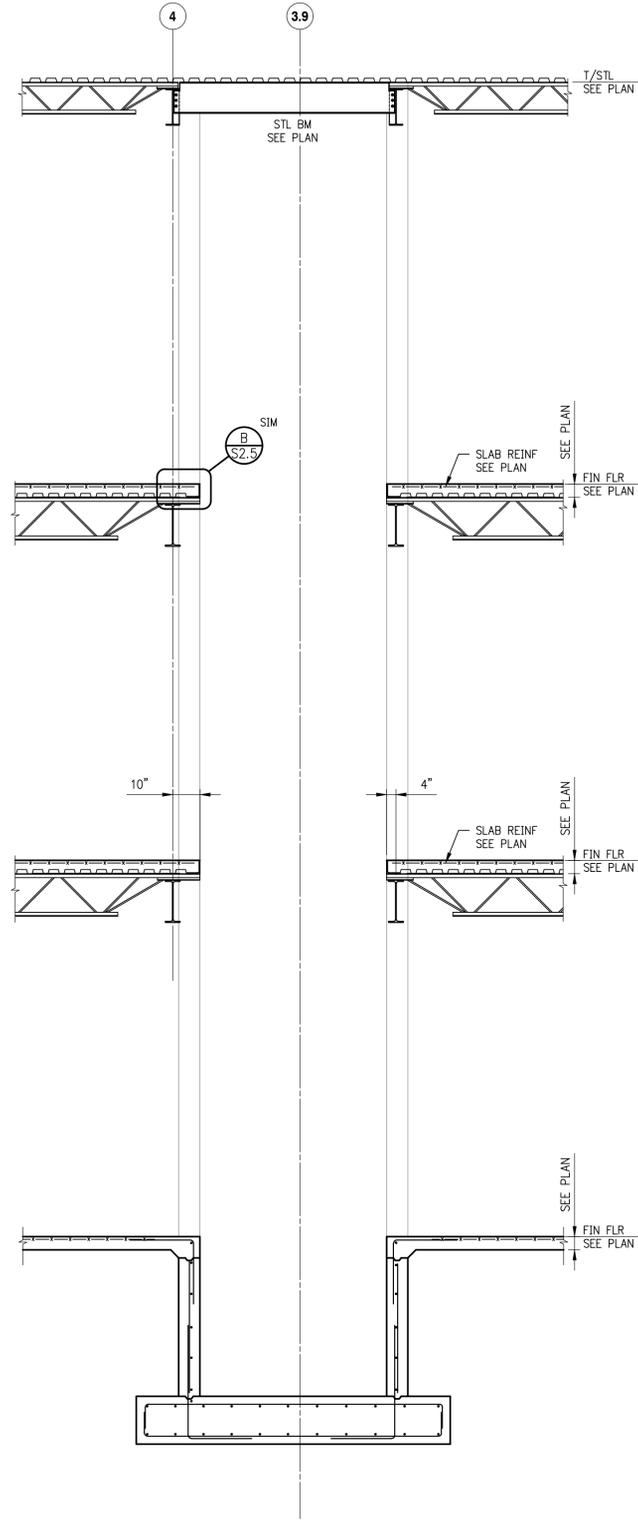
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ELEVATOR DETAILS
S2.5
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A ELEVATOR SECTION
S2.6 NTS



B ELEVATOR SECTION
S2.6 NTS



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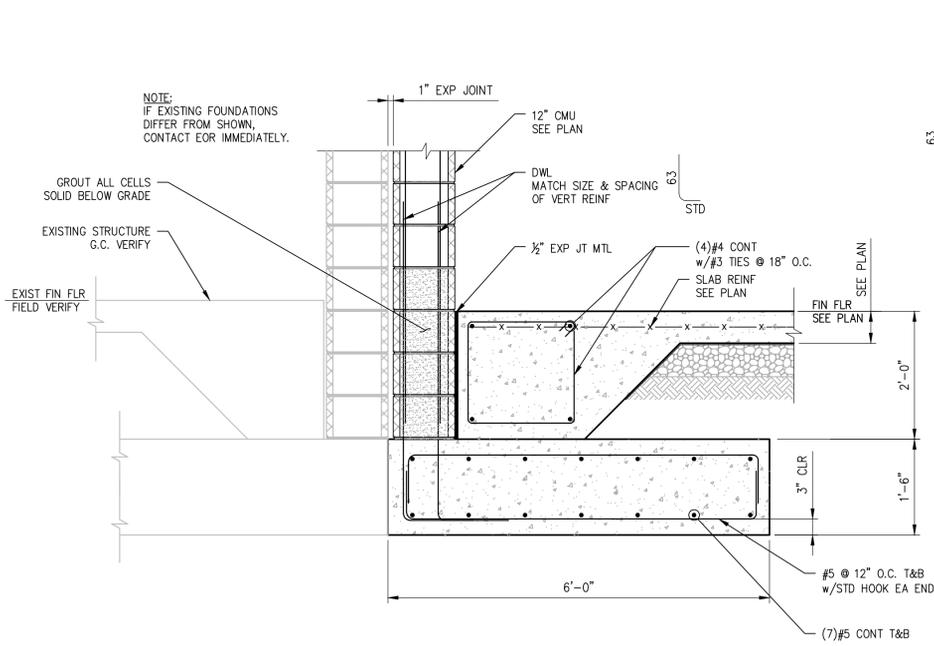
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S2.6
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HEFLIN POLICE STATION
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HEFLIN, ALABAMA

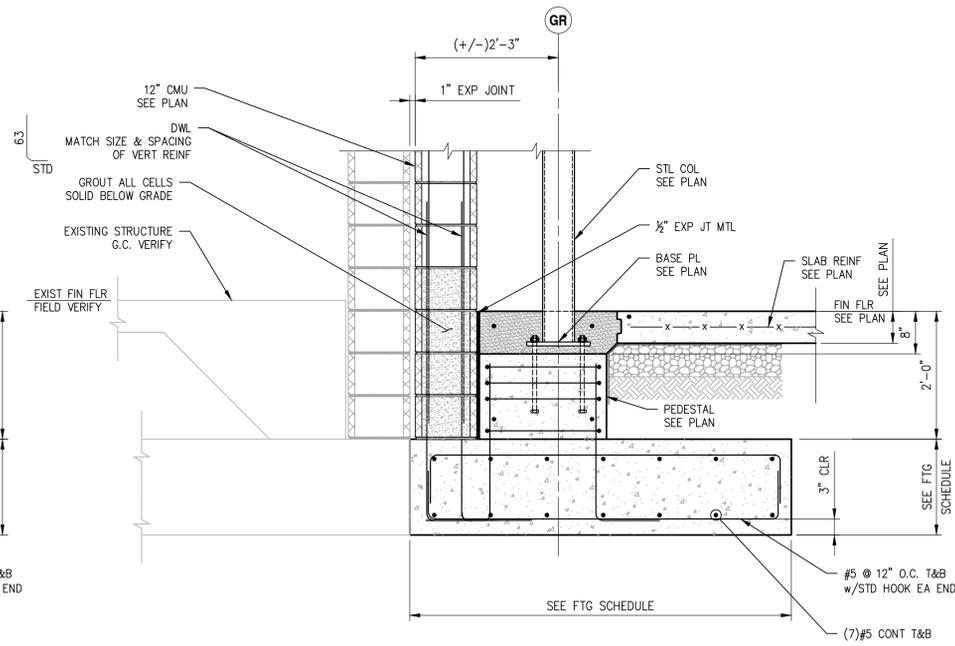
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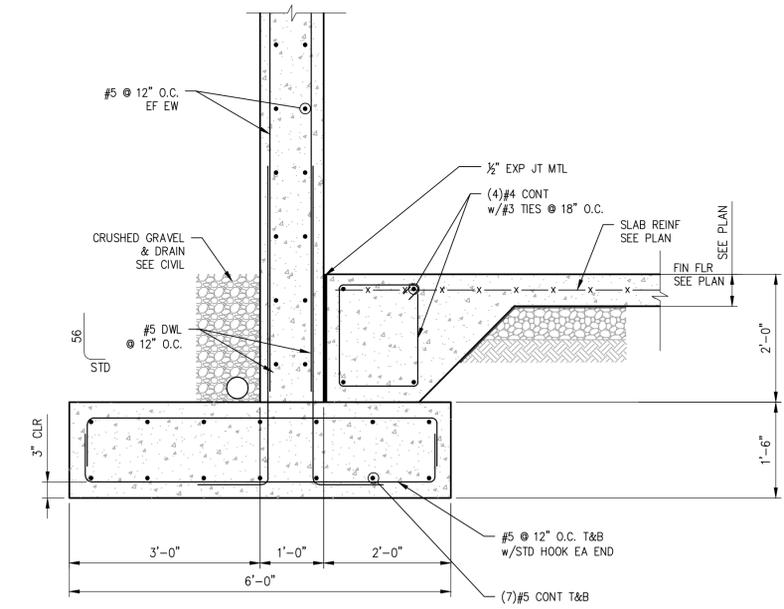
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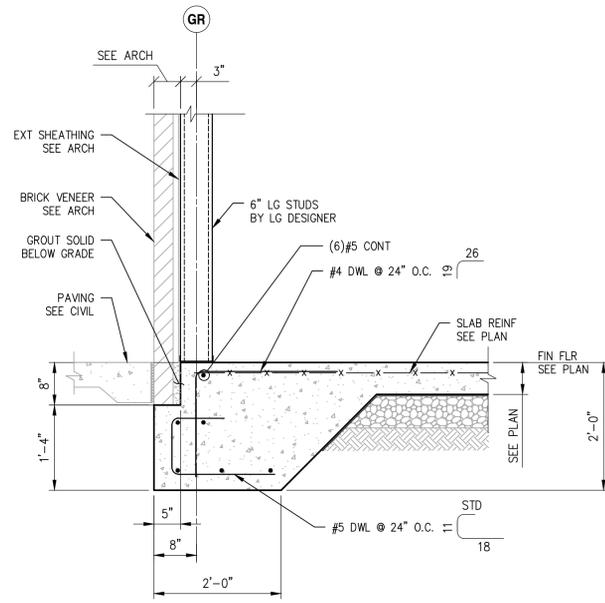
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S3.1 3/4" = 1'-0"



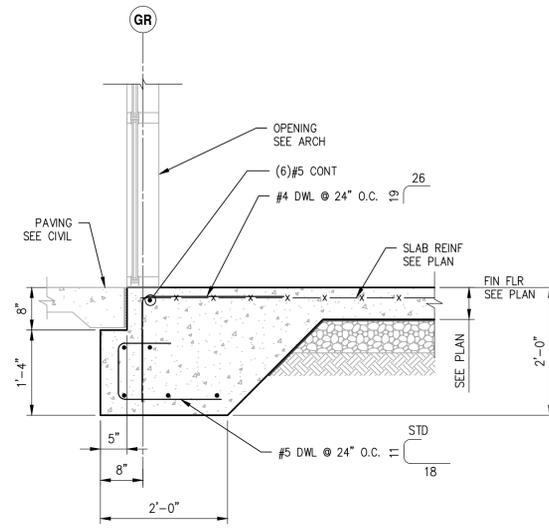
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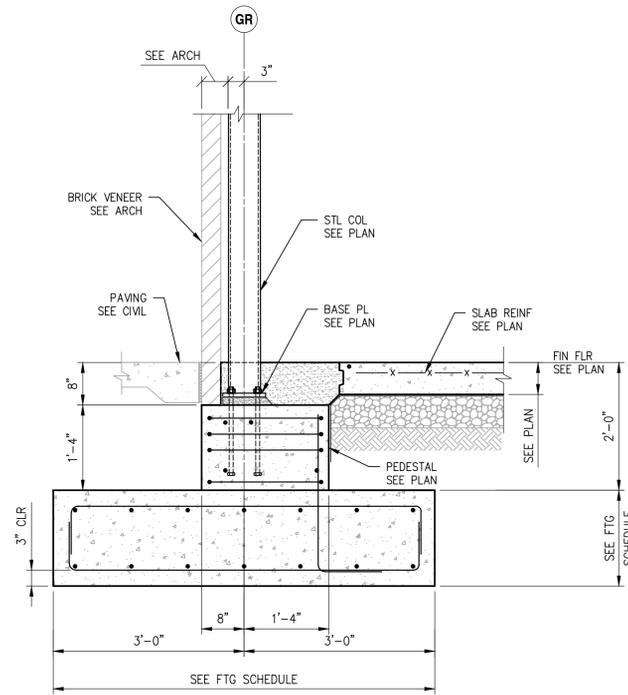
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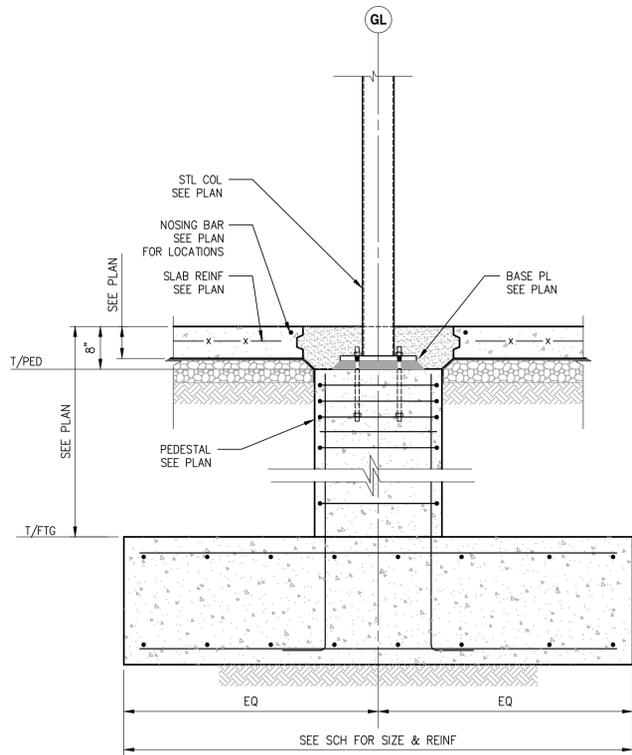
4 SECTION
S3.1 3/4" = 1'-0"



5 SECTION
S3.1 3/4" = 1'-0"



6 SECTION
S3.1 3/4" = 1'-0"



7 SECTION
S3.1 3/4" = 1'-0"



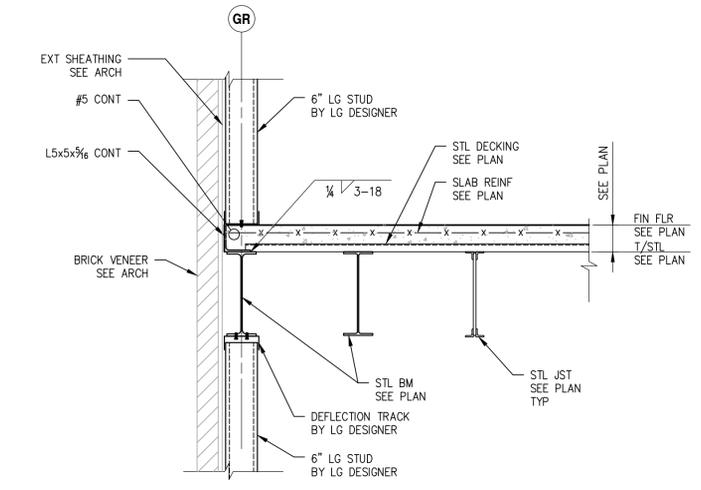
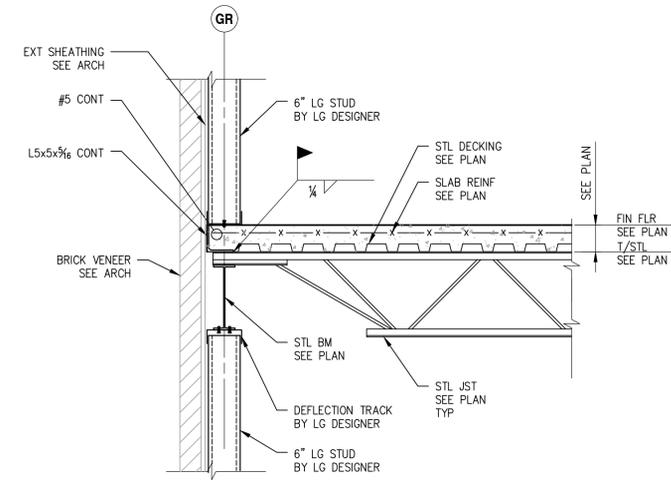
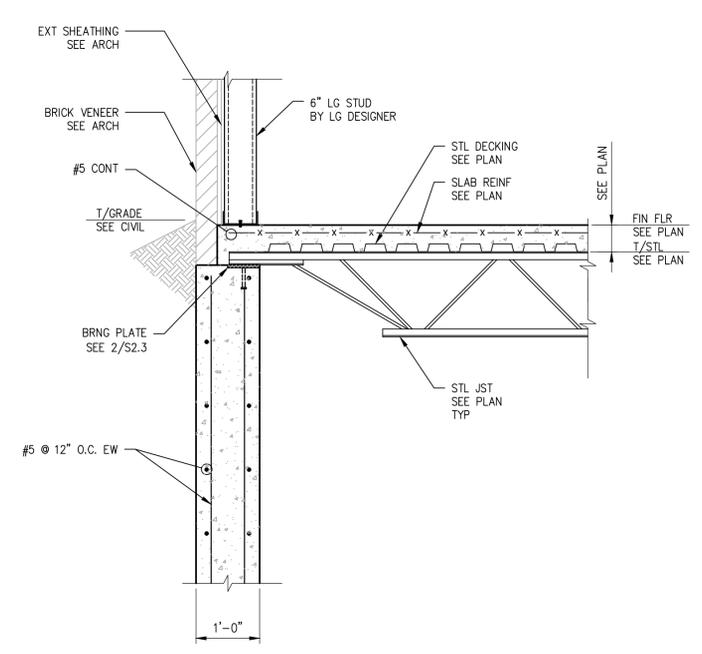
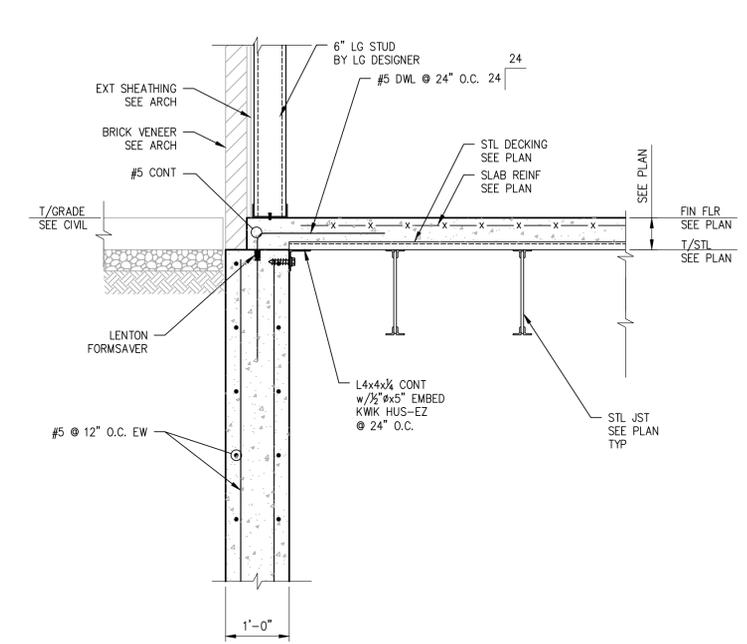
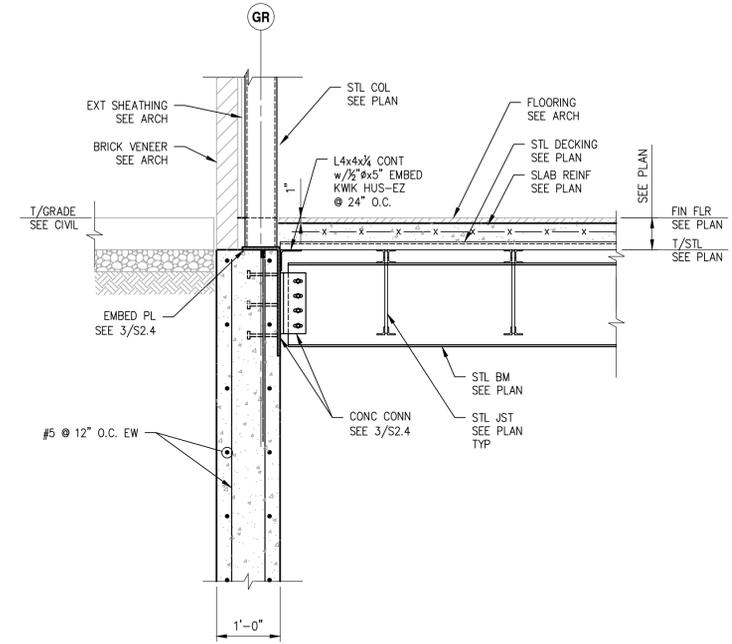
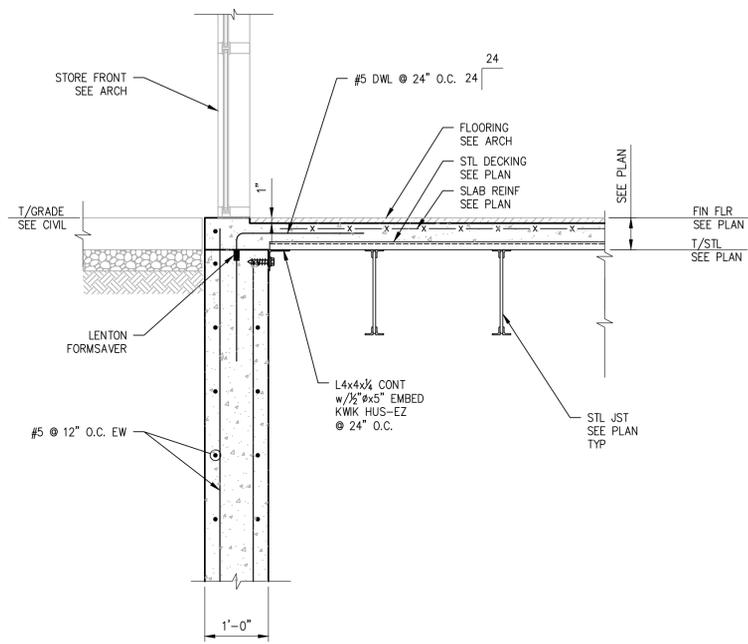
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HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

REVISIONS
DATE: 4/15/2025
PROJECT # 2102
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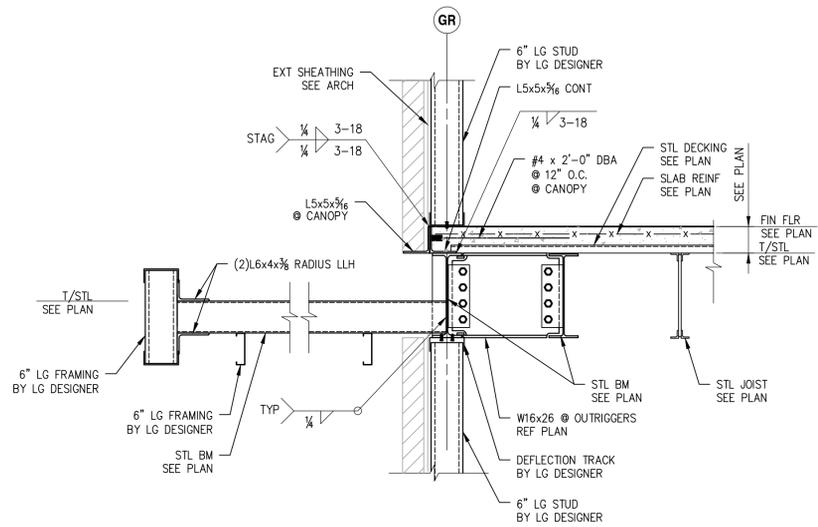
HEFLIN POLICE STATION
 850 ROSS STREET
 HEFLIN, ALABAMA

REVISIONS
 DATE: 4/15/2025
 PROJECT # 2102
 DRAWN BY CDM.ABS
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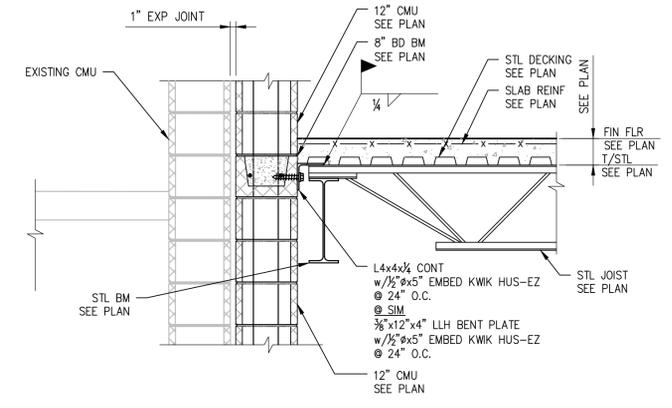
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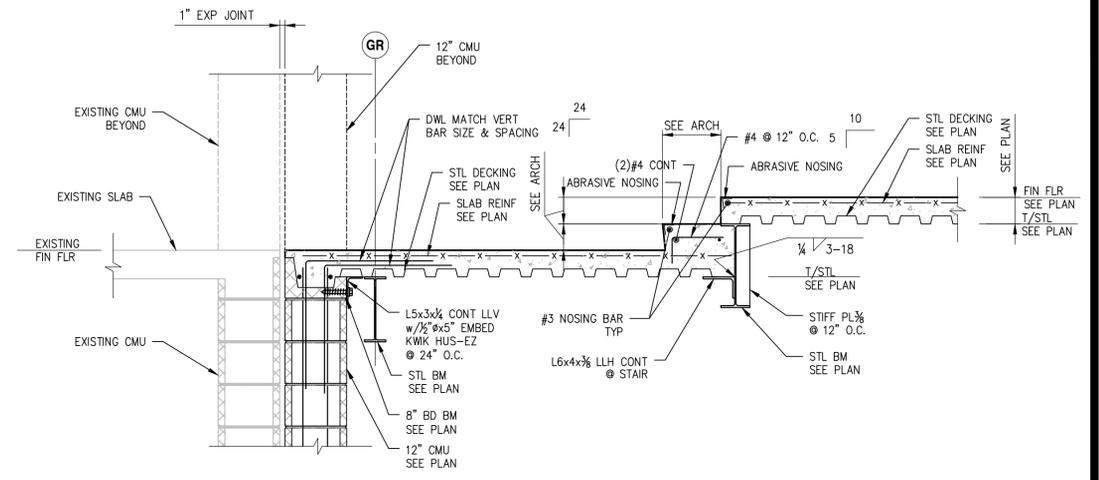
FOUNDATION SECTIONS
 S3.2
 23 of 97



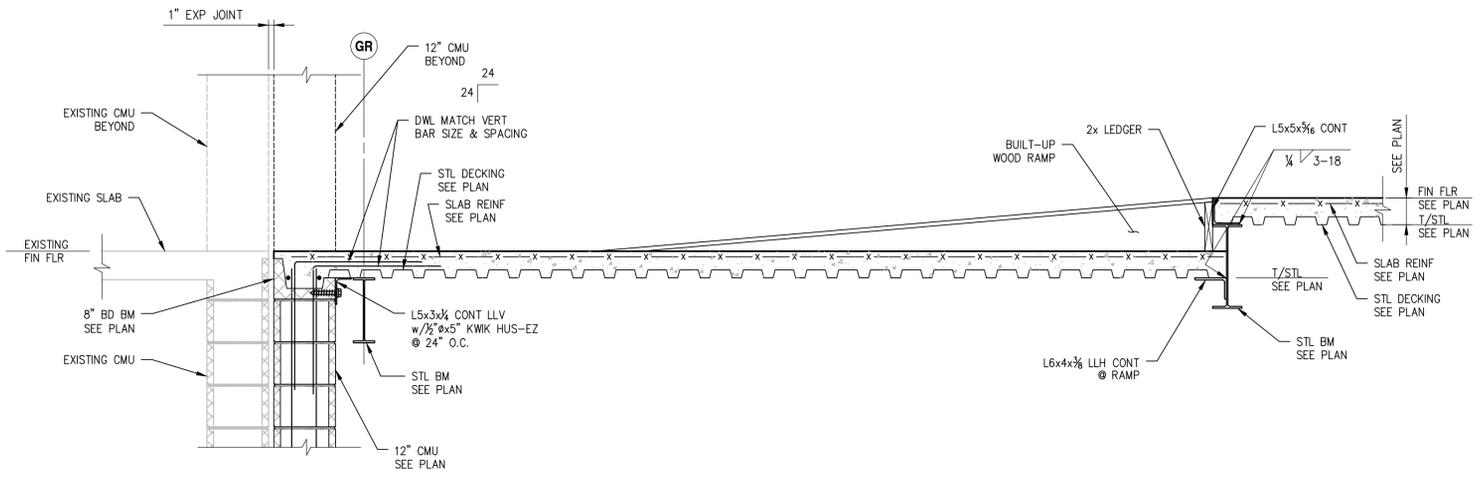
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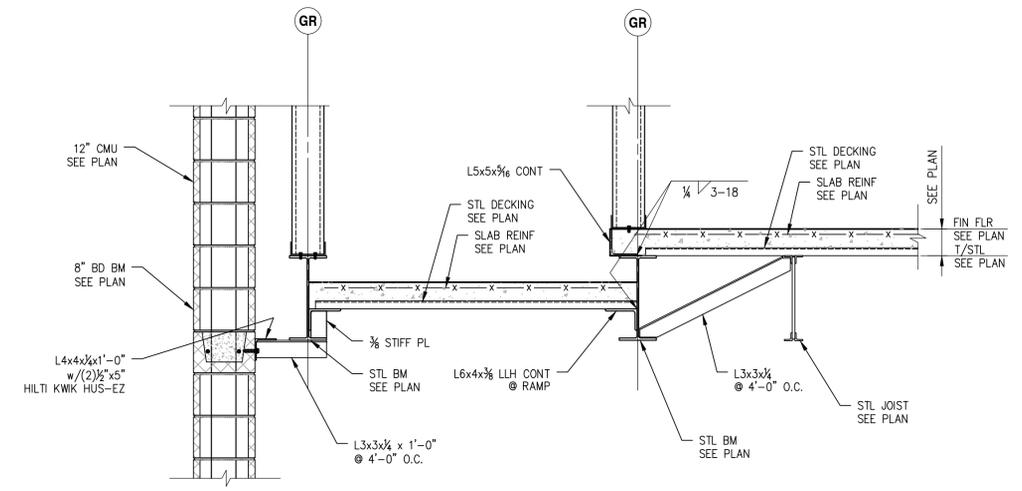
2 SECTION
S3.3 3/4" = 1'-0"



3 SECTION
S3.3 3/4" = 1'-0"



4 SECTION
S3.3 3/4" = 1'-0"



5 SECTION
S3.3 3/4" = 1'-0"

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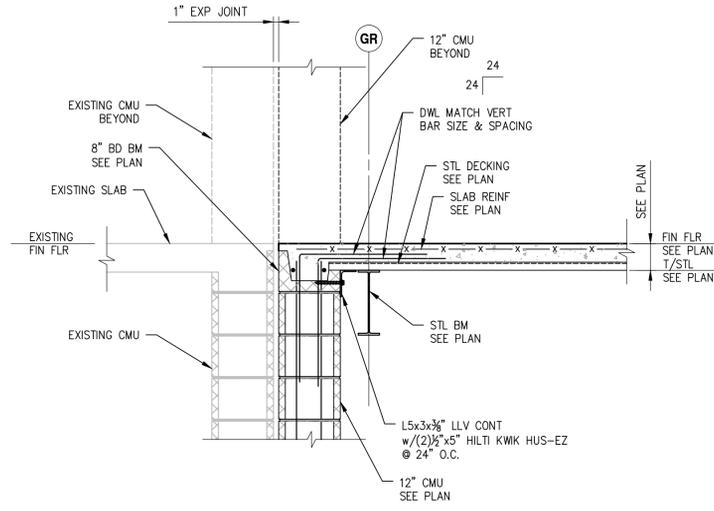
HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

REVISIONS
DATE: 4/15/2025
PROJECT # 2102
DRAWN BY CDM.ABS
CHECKED BY REC

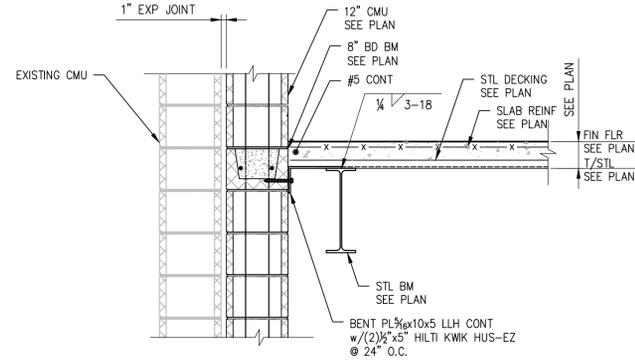
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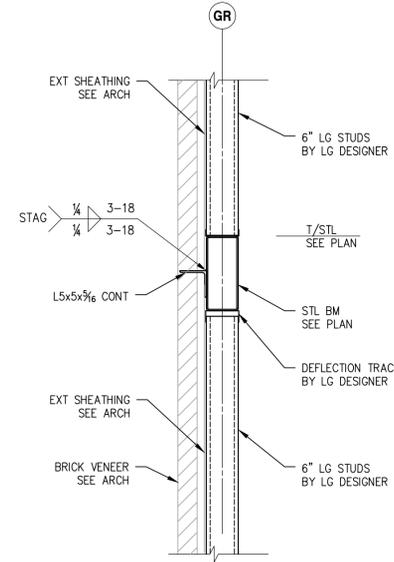
FRAMING SECTIONS
S3.3
24 of 97



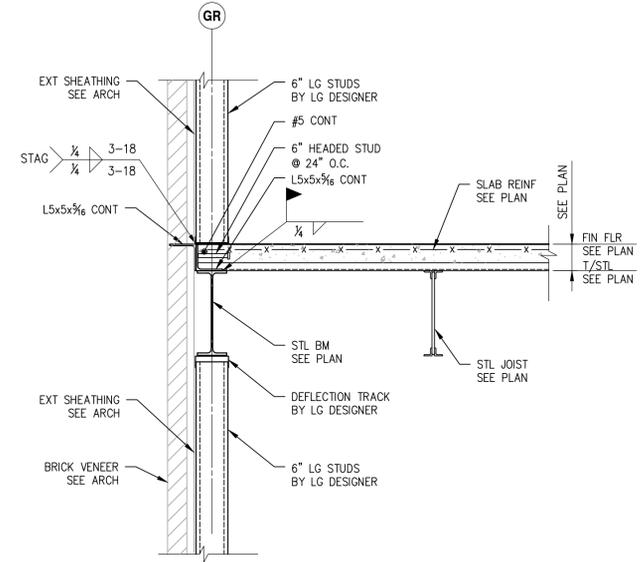
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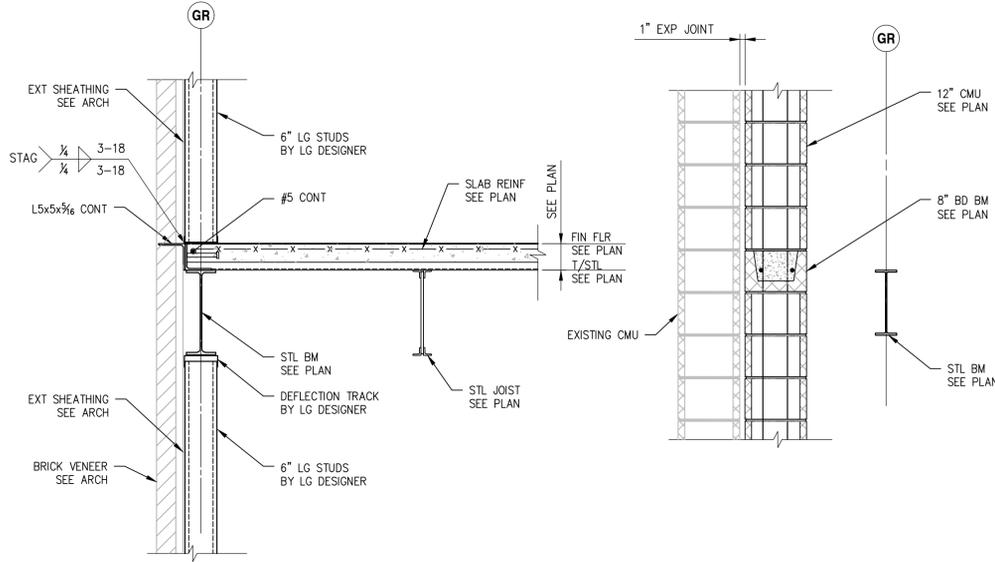
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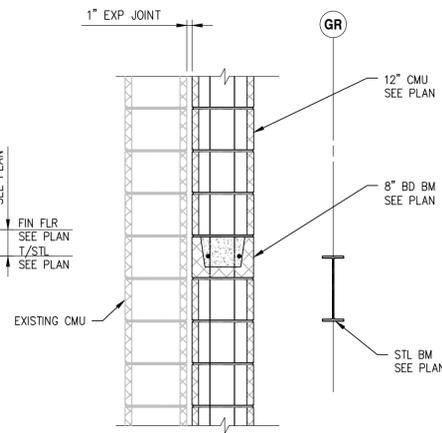
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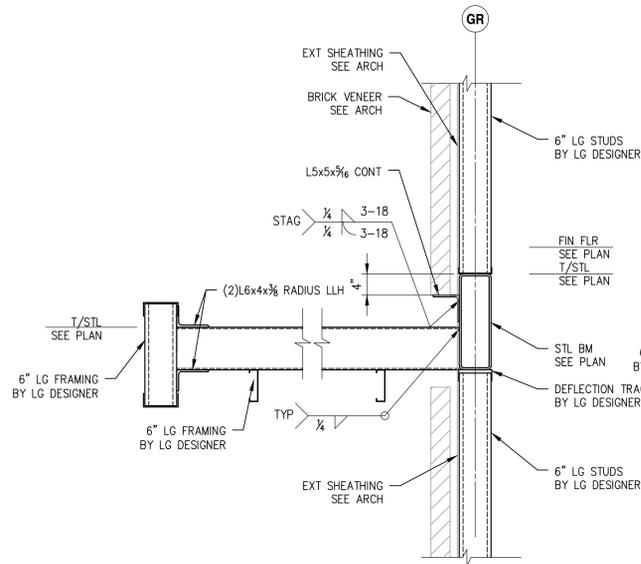
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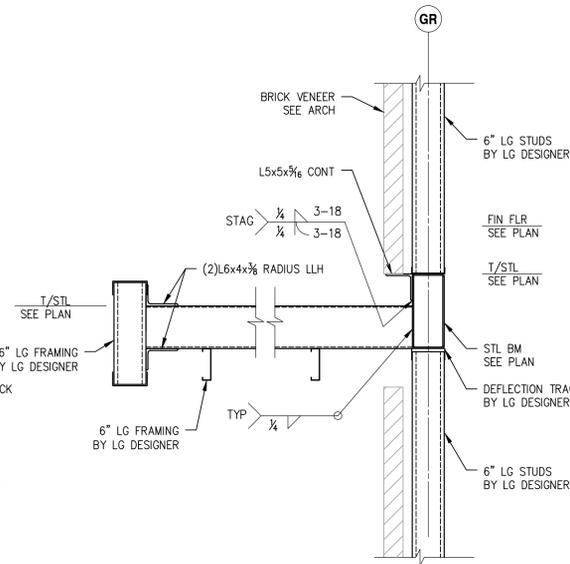
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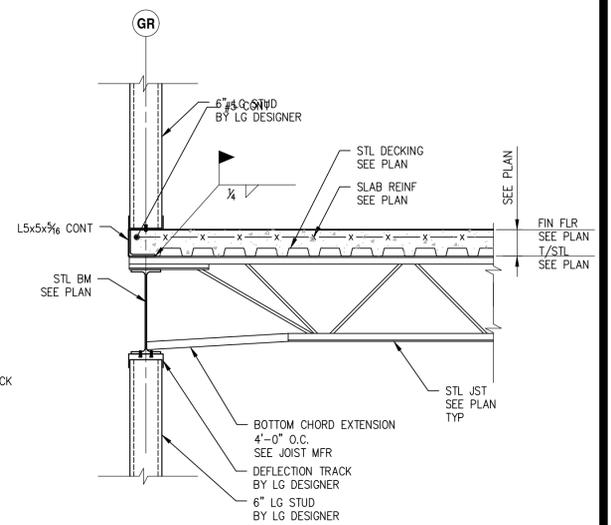
6 SECTION
S3.4 3/4" = 1'-0"



7A SECTION
S3.4 3/4" = 1'-0"



7B SECTION
S3.4 3/4" = 1'-0"



8 SECTION
S3.4 3/4" = 1'-0"



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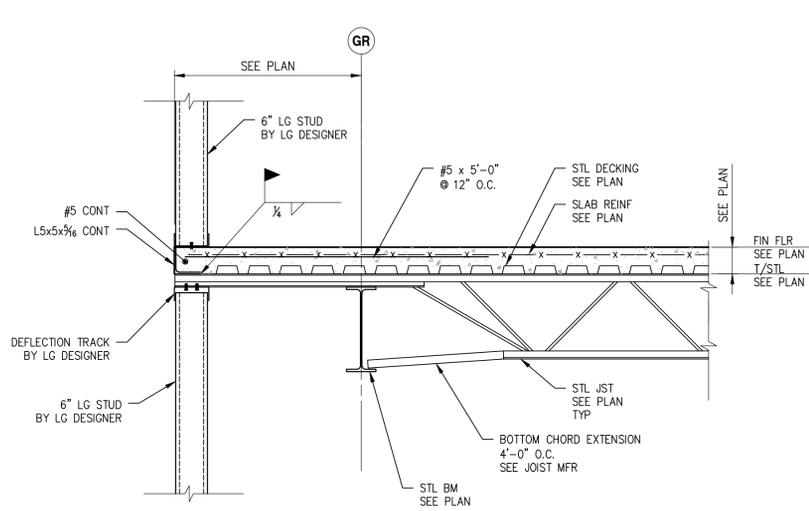
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HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

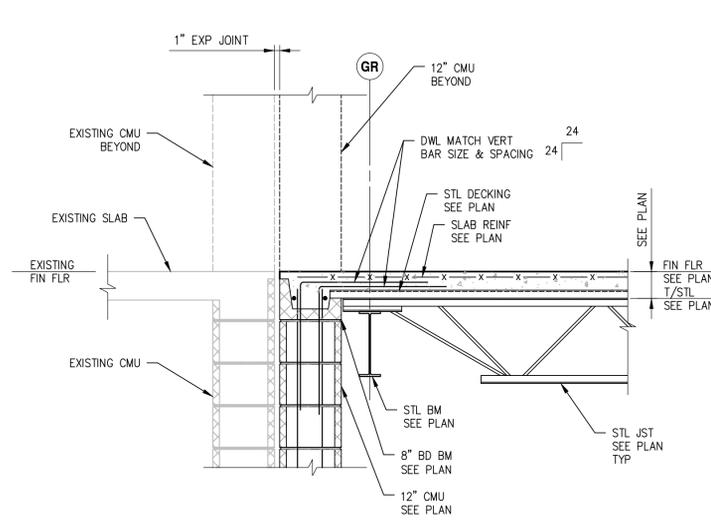
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PROJECT # 2102
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FRAMING SECTIONS

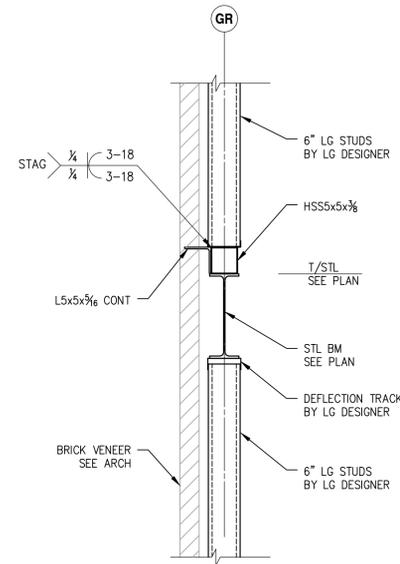
S3.4
25 of 97



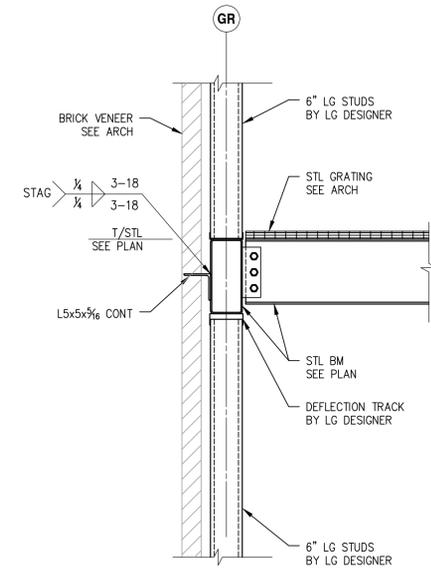
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S3.5 3/4" = 1'-0"



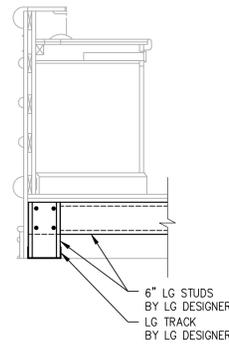
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S3.5 3/4" = 1'-0"



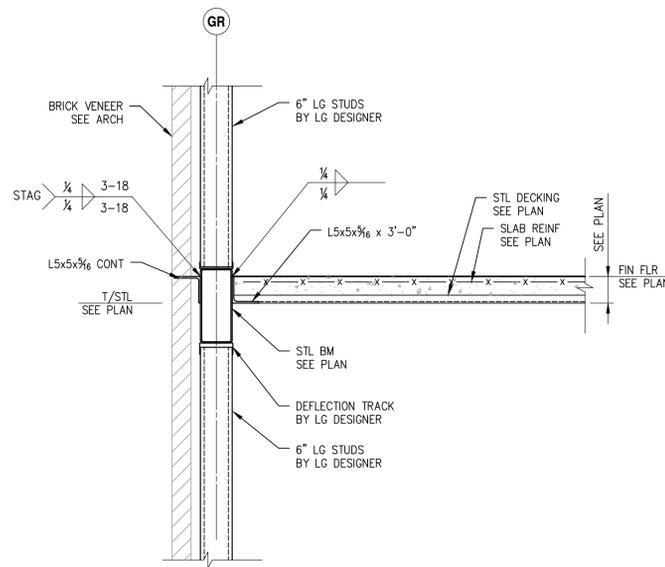
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S3.5 3/4" = 1'-0"



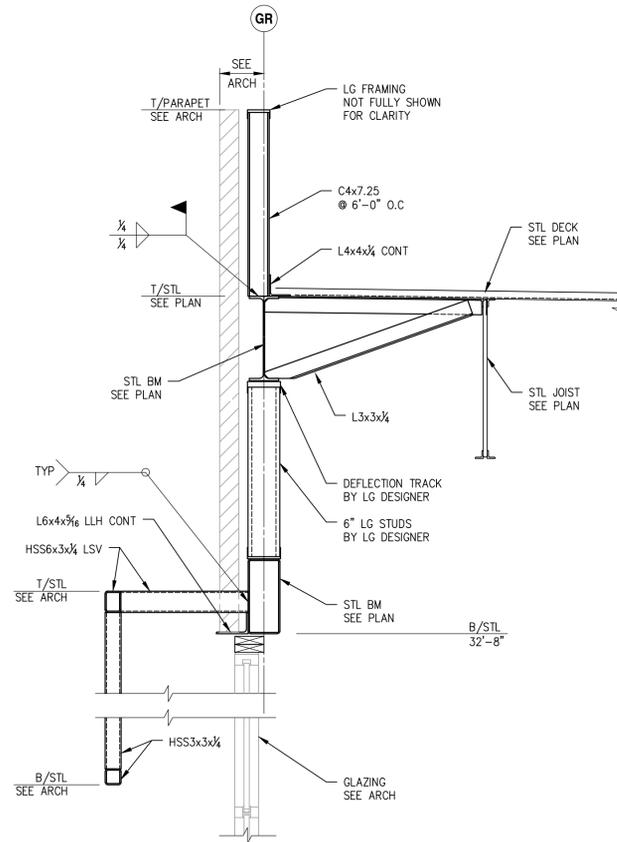
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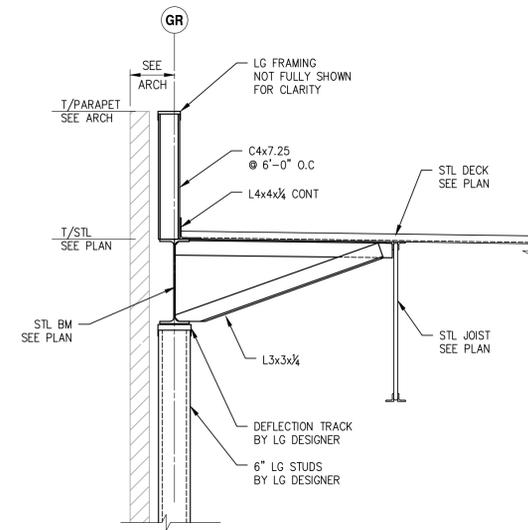
5 SECTION
S3.5 3/4" = 1'-0"



6 SECTION
S3.5 3/4" = 1'-0"



7 SECTION
S3.5 3/4" = 1'-0"



8 SECTION
S3.5 3/4" = 1'-0"



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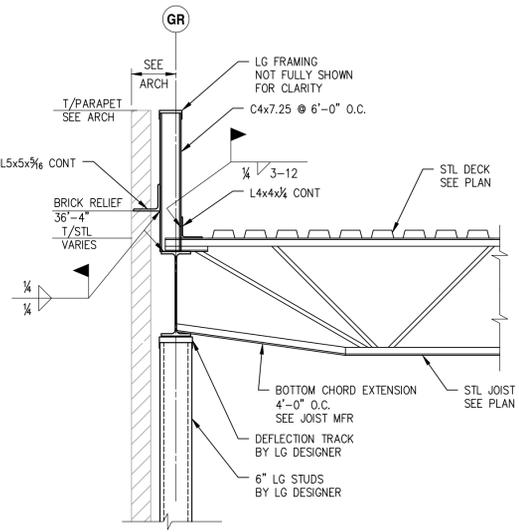


REGISTERED PROFESSIONAL ENGINEER
No. 25989
SIGNED: 4/15/2025

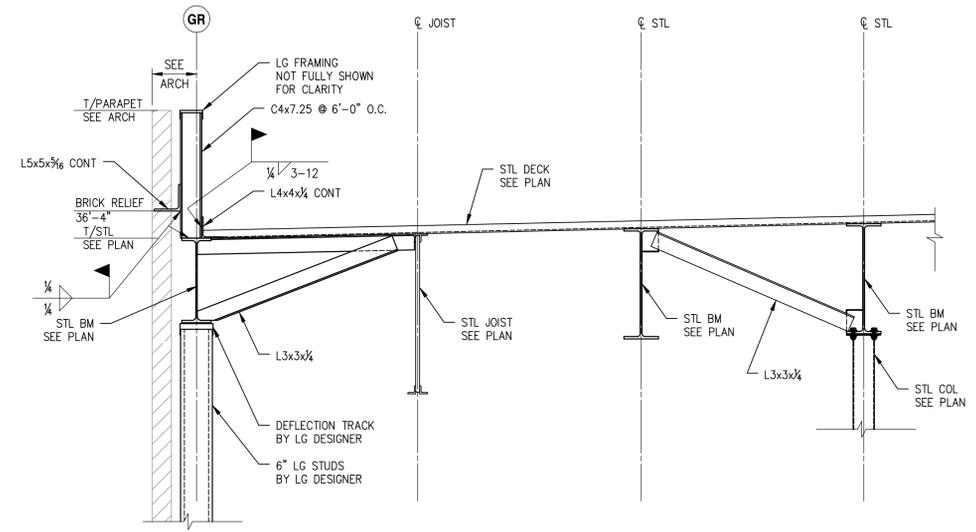
HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

REVISIONS
DATE: 4/15/2025
PROJECT # 2102
DRAWN BY CDM.ABS
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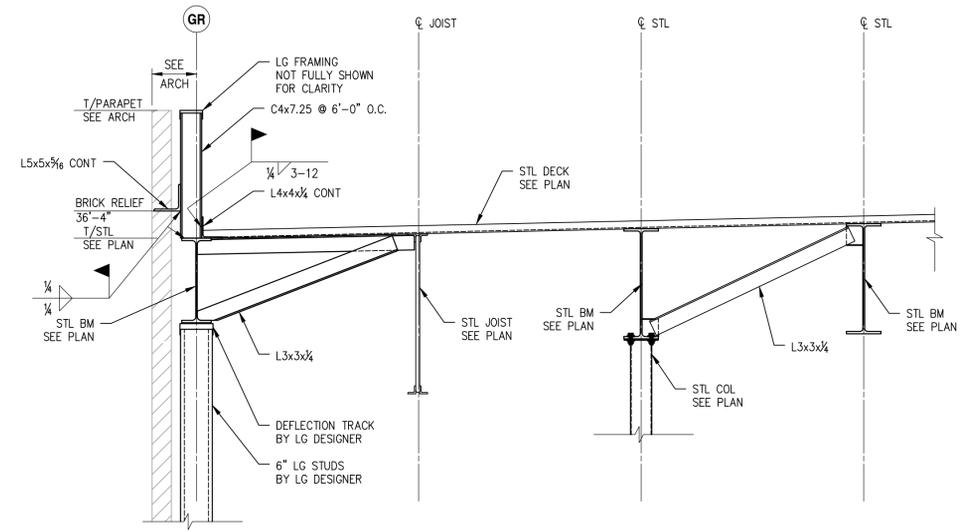
FRAMING SECTIONS
S3.5
26 OF 97



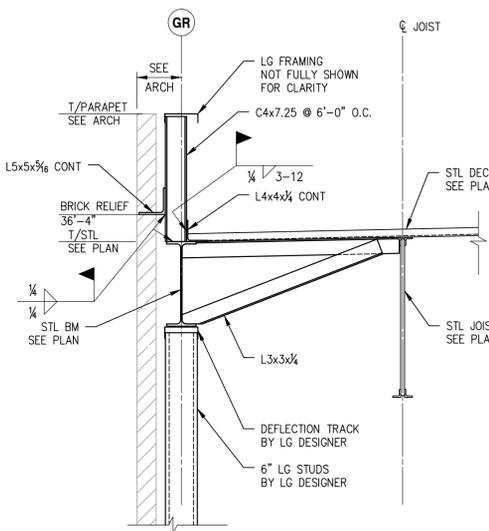
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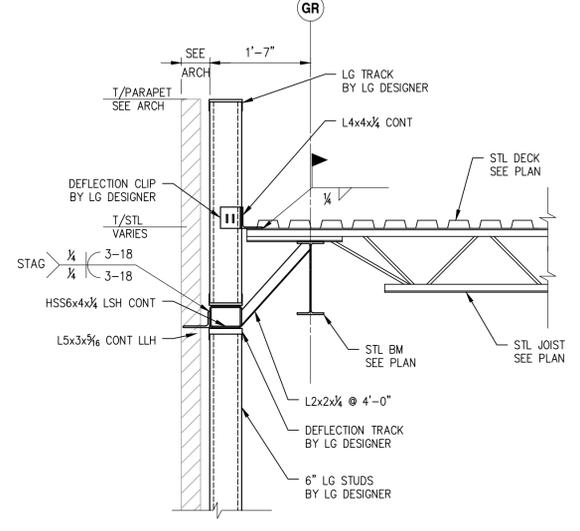
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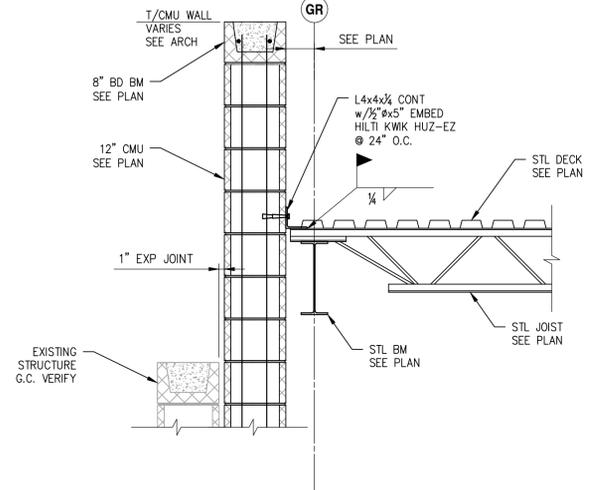
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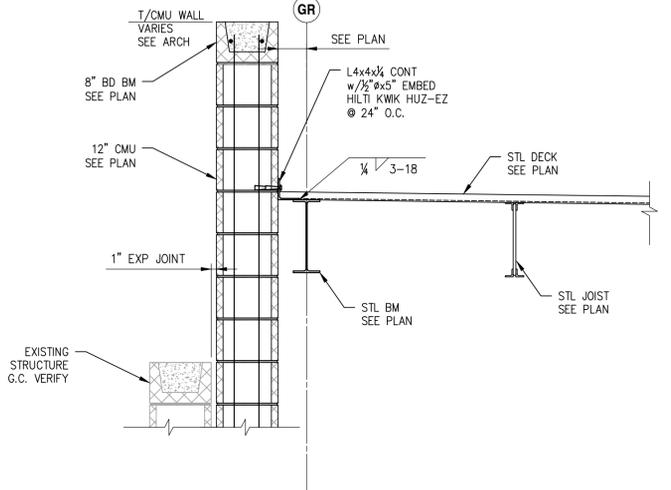
4 SECTION
S3.6 3/4" = 1'-0"



5 SECTION
S3.6 3/4" = 1'-0"



6 SECTION
S3.6 3/4" = 1'-0"



7 SECTION
S3.6 3/4" = 1'-0"



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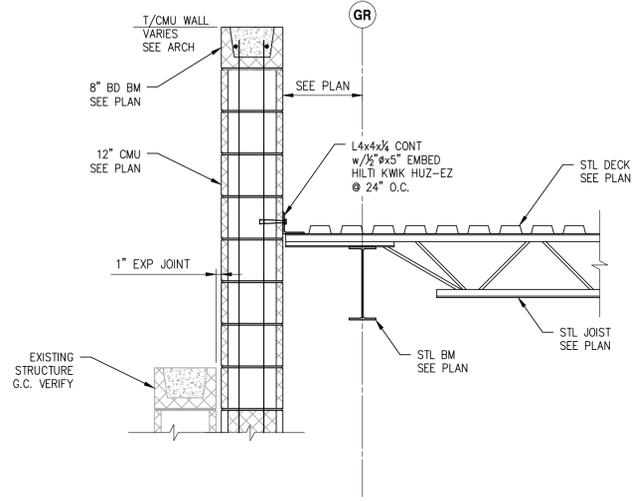


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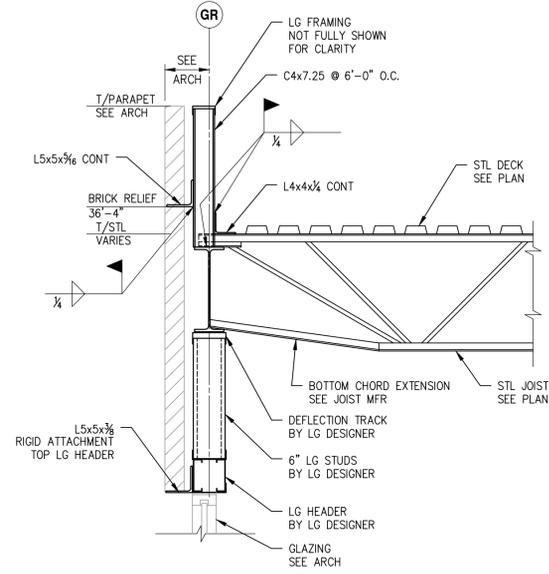
HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

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DATE: 4/15/2025
PROJECT # 2102
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FRAMING SECTIONS
S3.6
27 of 97



1 SECTION
S3.7 3/4" = 1'-0"



2 SECTION
S3.7 3/4" = 1'-0"



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S3.7



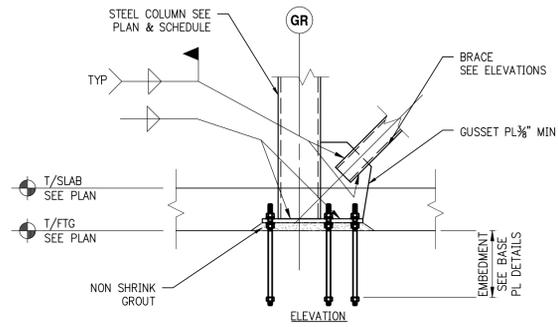
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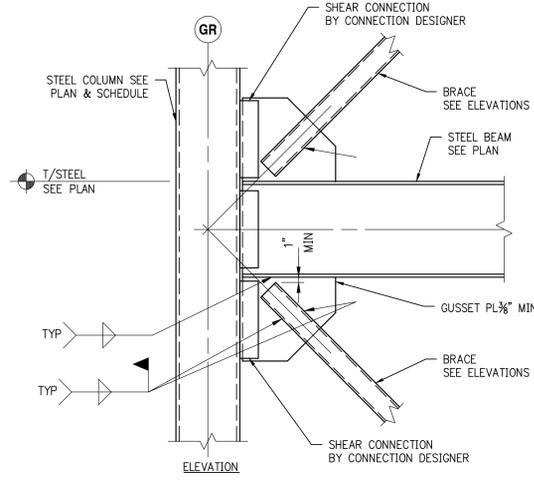
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850 ROSS STREET
HEFLIN, ALABAMA

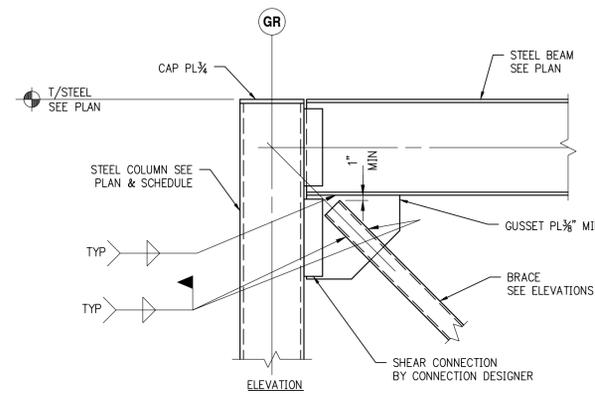
REVISIONS



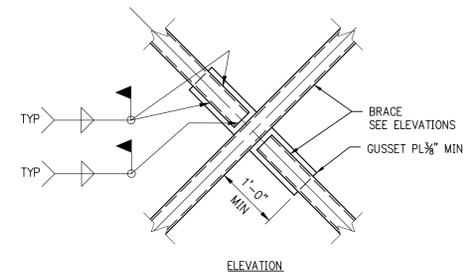
1 VERTICAL BRACE BASE PL DETAIL
S4.1 N.T.S.



2 VERTICAL BRACE CONNECTION DETAIL
S4.1 N.T.S.



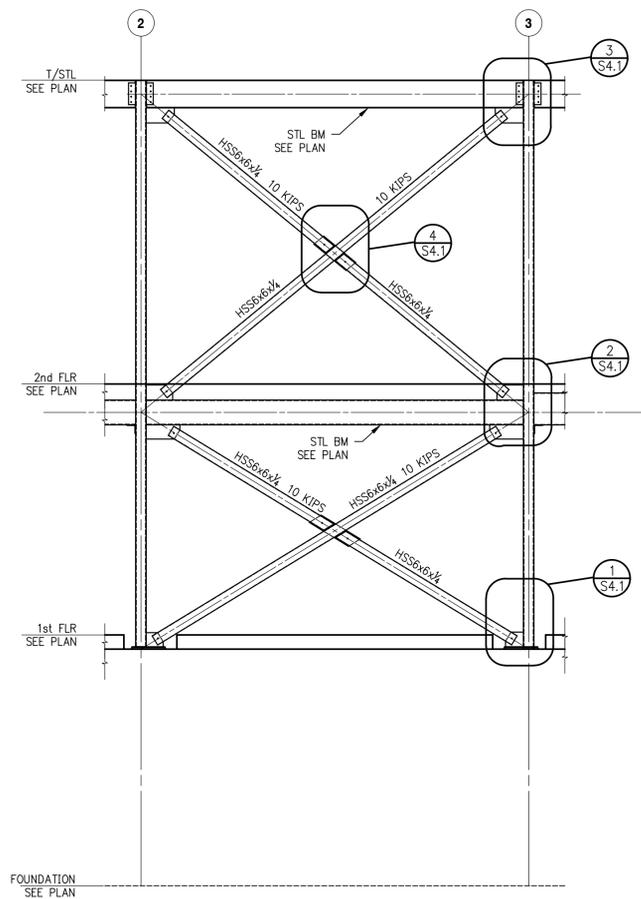
3 VERTICAL BRACE DETAIL
S4.1 N.T.S.



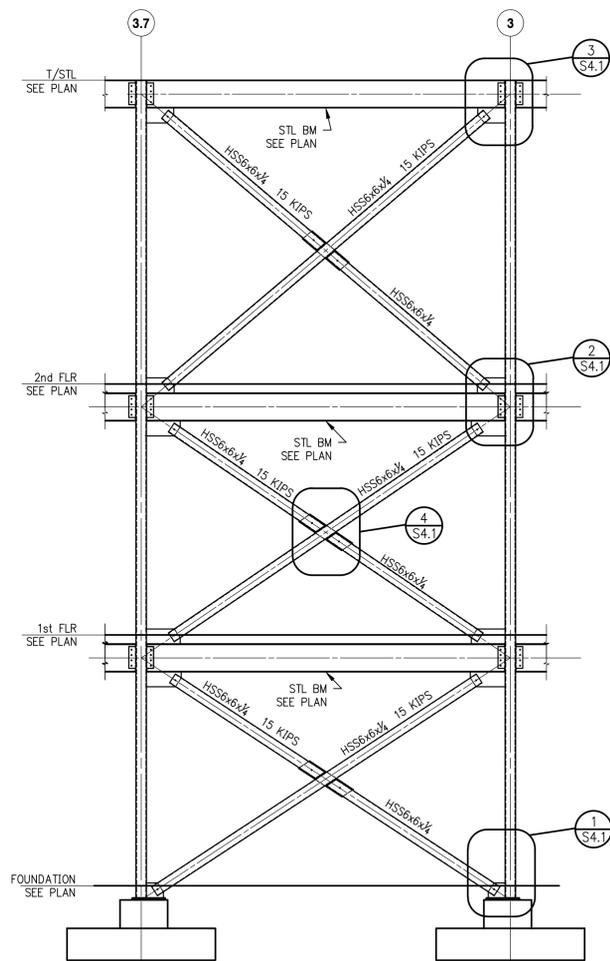
4 VERTICAL BRACE CONNECTION DETAIL
S4.1 N.T.S.

- BRACING NOTES:**
- MEMBER DESIGN FORCES SHOWN () ARE SERVICE LEVEL (UNFACTORED) PER THE INTERNATIONAL BUILDING CODE ALLOWABLE STRESS DESIGN LOAD COMBINATIONS
+ DENOTES TENSION
- DENOTES COMPRESSION
 - ALL FIELD CONNECTIONS SHALL BE WELDED. FIELD BOLTING w/ 3/4" A-325 BOLTS SHALL BE ALLOWED FOR ERECTION PURPOSES ONLY.
 - ALL SHOP CONNECTIONS SHALL BE WELDED.
 - BRACING CONNECTIONS SHALL BE DESIGNED FOR THE FULL DESIGN AXIAL FORCE AS SHOWN
 - LAY OUT MEMBERS SO THAT NEUTRAL AXIS OR GAGE LINES OF MEMBERS INTERSECT AT PANEL POINTS AND WORKING POINTS.
 - AT EXPOSED BRACING LOCATIONS AND AS INDICATED IN THE BRACED BAY DETAILS, ALL STEEL AND CONNECTIONS SHALL BE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS).

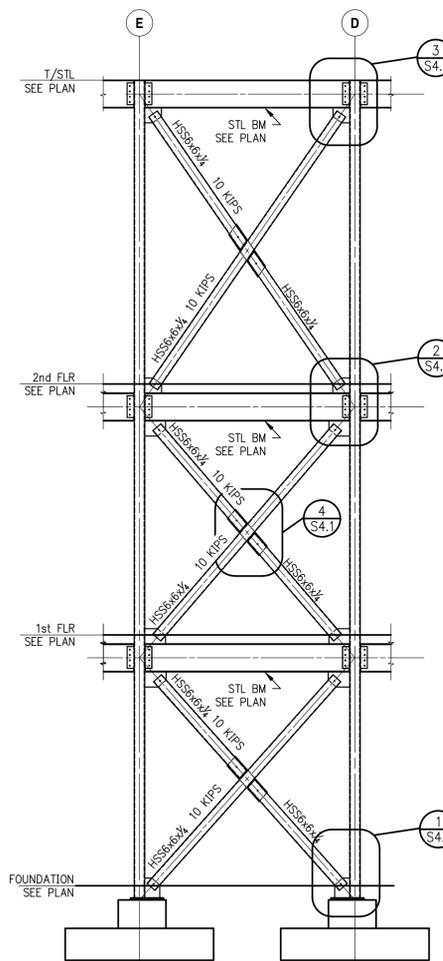
5 STANDARD VERTICAL BRACING NOTES
S4.1 N.T.S.



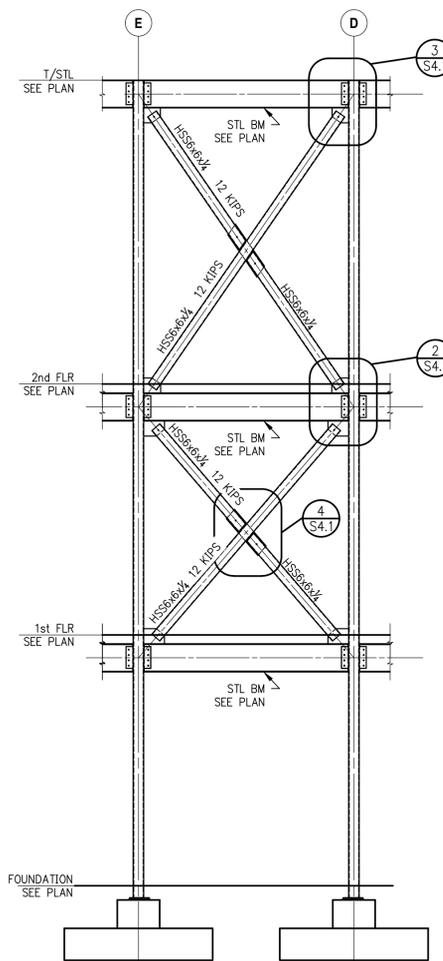
A X-BRACE ELEVATION
S4.1 N.T.S.



B X-BRACE ELEVATION
S4.1 N.T.S.



C X-BRACE ELEVATION
S4.1 N.T.S.



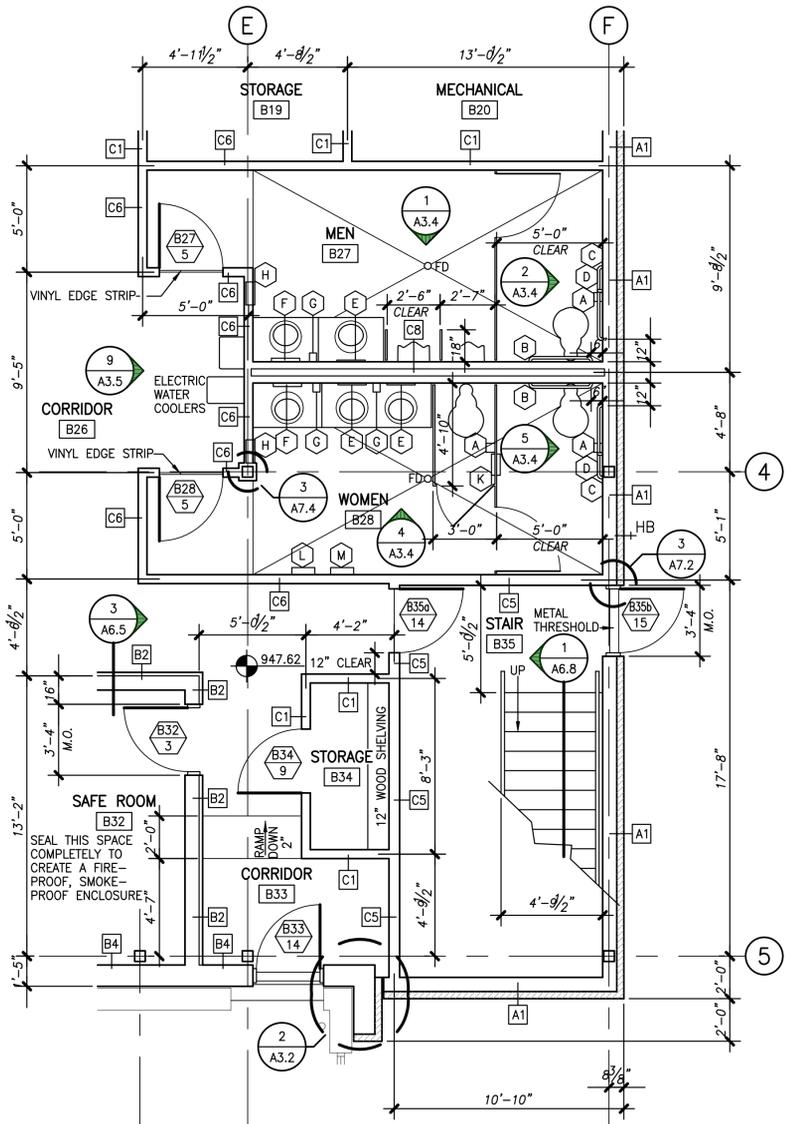
D X-BRACE ELEVATION
S4.1 N.T.S.

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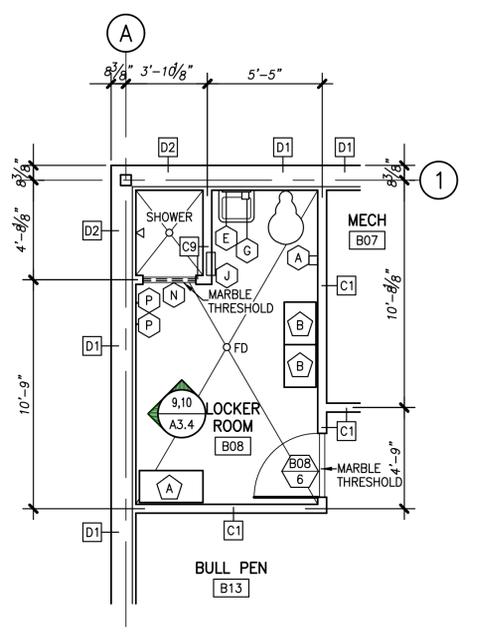
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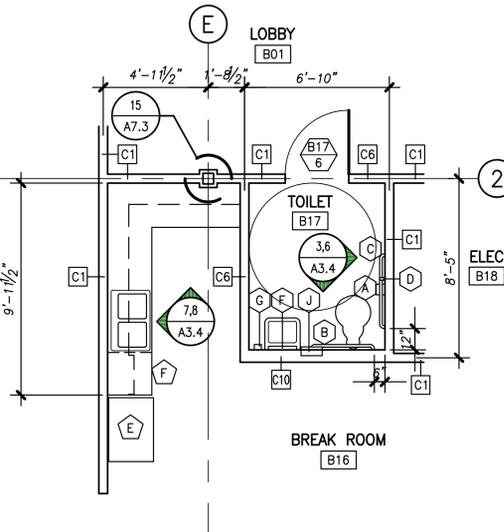
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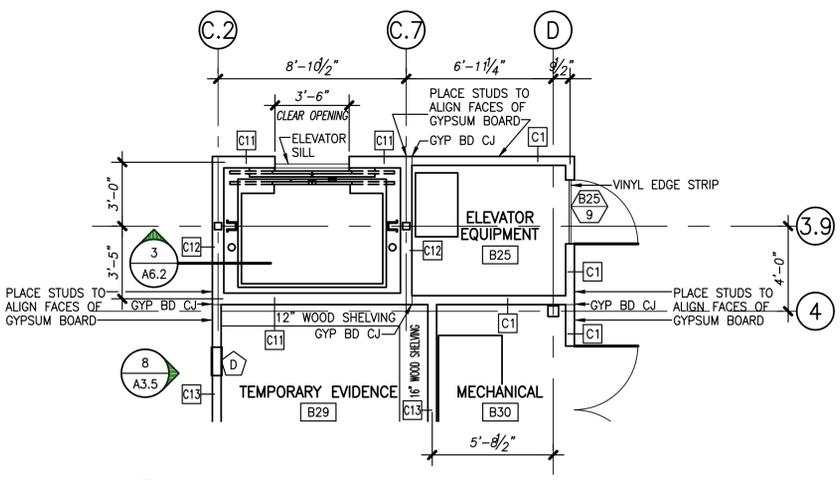
1 RESTROOMS & STAIR
BASEMENT 1/4"=1'-0"



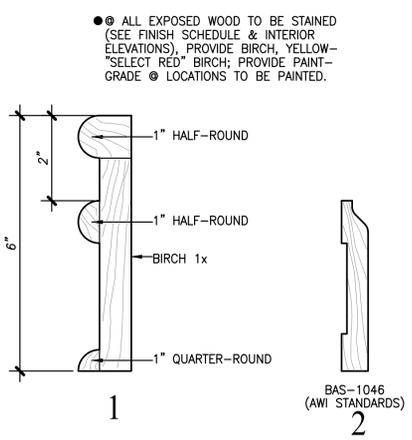
2 LOCKER ROOM
1/4"=1'-0"



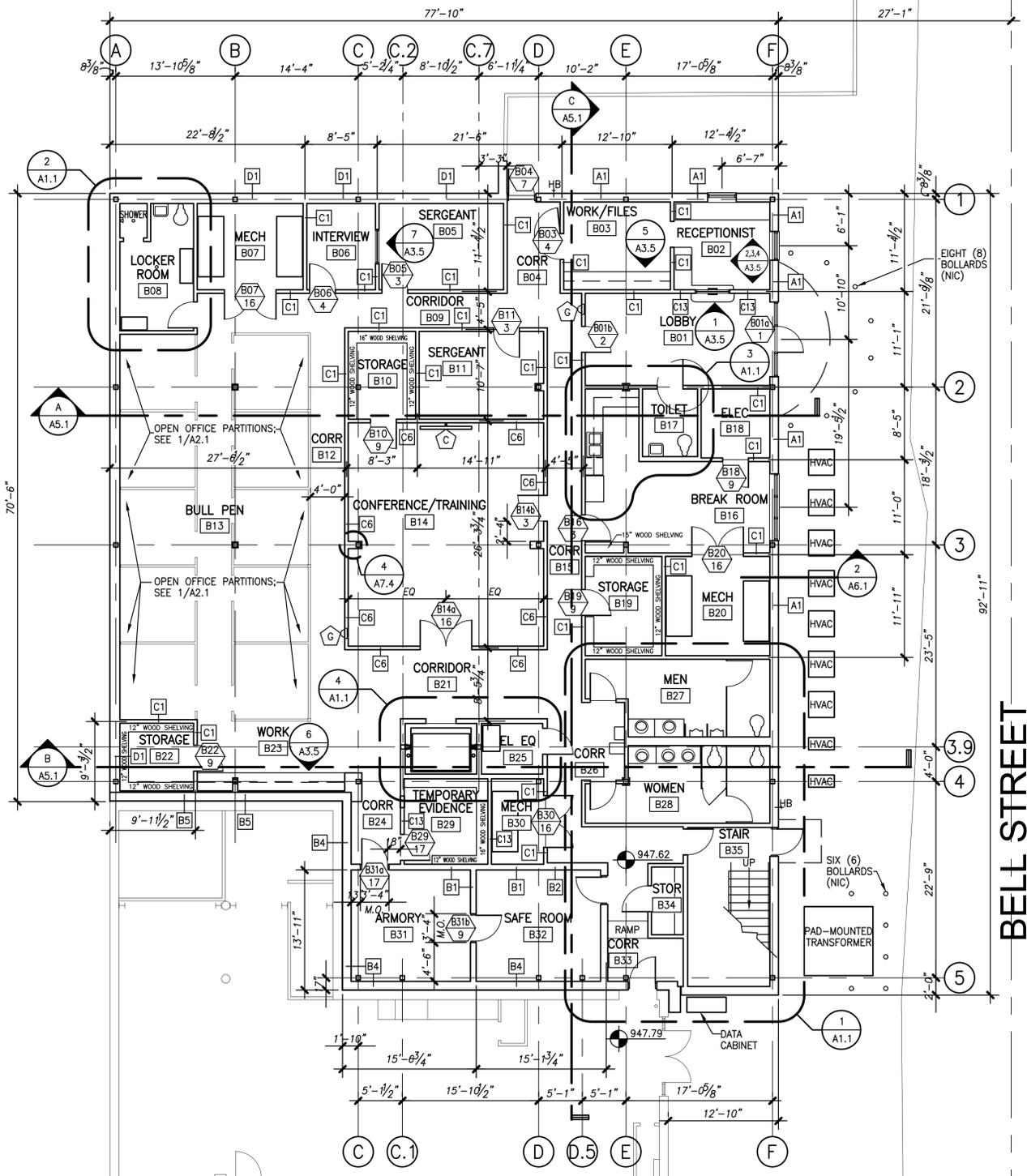
3 TOILET & BREAK ROOM
1/4"=1'-0"



4 ELEVATOR
BASEMENT 1/4"=1'-0"



5 WOOD BASE MOLDS
HALF SIZE



BASEMENT FLOOR PLAN 1/8"=1'-0"
6,610 SQUARE FEET

BELL STREET



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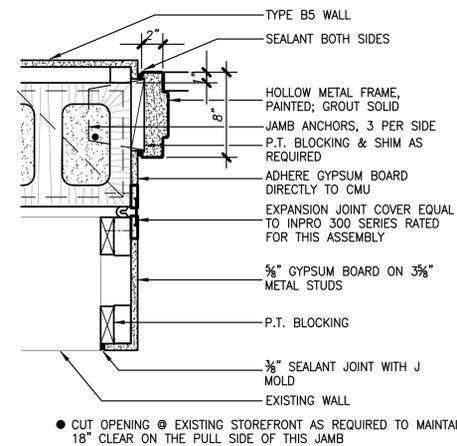
WALL/PARTITION SCHEDULE

XXI	DETAIL & SPACING	DESCRIPTION	REMARKS
EX		EXISTING, TO REMAIN	SEE FINISH SCHEDULE FOR ANY MODIFICATIONS THAT MAY BE REQUIRED
A1		SEE 2/A6.1 GALVANIZED MASONRY TIES @ 16" O.C., HORIZONTAL & VERTICAL	
A2		SEE 2/A6.1 GALVANIZED MASONRY TIES @ 16" O.C., HORIZONTAL & VERTICAL WOOD PANELING TO 6'-0" A.F.F.; SEE 9/A3.9	
A3		SEE 2/A6.1 GALVANIZED MASONRY TIES @ 16" O.C., HORIZONTAL & VERTICAL MARBLE PANELS TO 4'-0" A.F.F.	
B1		TO DECK ABOVE.	
B2		CMU TO DECK ABOVE. GYPSUM BOARD TO 4" ABOVE CEILING. SEE 3/A6.5.	
B3		CMU TO DECK ABOVE. GYPSUM BOARD TO 4" ABOVE CEILING.	
B4		3-HOUR FIRE WALL TO 30" ABOVE ROOF. SEE 2/A6.2.	
B5		3-HOUR FIRE WALL TO 30" ABOVE ROOF. SEE 2/A6.2.	
B6		3-HOUR FIRE WALL TO 30" ABOVE ROOF. SEE 2/A6.2. MARBLE PANELS TO 4'-0" A.F.F.	
C1		TO 4" ABOVE HIGHEST ADJACENT CEILING. PROVIDE BRACING TO STRUCTURE ABOVE @ 4'-0" O.C. MAX.; SEE 3/A6.4	
C2		ONE-HOUR PARTITION, TO DECK ABOVE; SEAL TO MAINTAIN INTEGRITY OF SEPARATION	
C3		TO 4" ABOVE HIGHEST ADJACENT CEILING. PROVIDE BRACING TO STRUCTURE ABOVE @ 4'-0" O.C. MAX.	
C4		ONE-HOUR PARTITION, TO DECK ABOVE; SEAL TO MAINTAIN INTEGRITY OF SEPARATION	
C5		TWO-HOUR PARTITION, TO DECK ABOVE; SEAL TO MAINTAIN INTEGRITY OF SEPARATION	

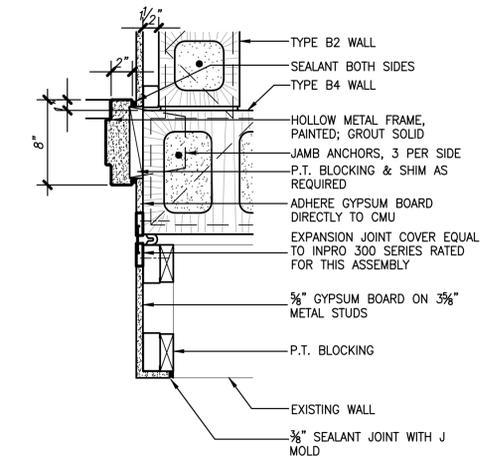
XXI	DETAIL & SPACING	DESCRIPTION	REMARKS
C6		TO DECK ABOVE	
C7		ONE-HOUR PARTITION, TO DECK ABOVE; SEAL TO MAINTAIN INTEGRITY OF SEPARATION	
C8		TO DECK ABOVE	
C9		TO 4" ABOVE SUSPENDED ACOUSTICAL CEILING; MORTAR BOARD & SOLID SURFACE PANELS TO GYPSUM BOARD CEILING	
C10		TO 4" ABOVE HIGHEST ADJACENT CEILING. PROVIDE BRACING TO STRUCTURE ABOVE @ 4'-0" O.C. MAX.	
C11		SHAFT PARTITION	
C12		SHAFT PARTITION	
C13		TO DECK ABOVE. SEE 5/A6.4.	
C14		TWO-HOUR PARTITION, TO DECK ABOVE; SEAL TO MAINTAIN INTEGRITY OF SEPARATION	
C15		TO 4" ABOVE HIGHEST ADJACENT CEILING. PROVIDE BRACING TO STRUCTURE ABOVE @ 4'-0" O.C. MAX.; SEE 3/A6.4 MARBLE PANELS TO 4'-0" A.F.F.	
C16		TWO-HOUR PARTITION, TO DECK ABOVE; SEAL TO MAINTAIN INTEGRITY OF SEPARATION MARBLE PANELS TO 4'-0" A.F.F.	
C17		SHAFT PARTITION	
C18		STEEL PLATE TO 7'-0" A.F.F.; GYPSUM BOARD TO 4" ABOVE HIGHEST ADJACENT CEILING; PROVIDE BRACING TO STRUCTURE ABOVE @ 4'-0" O.C.; SEE 4/A6.5.	
C19		TWO-HOUR PARTITION, TO DECK ABOVE; SEAL TO MAINTAIN INTEGRITY OF SEPARATION WOOD PANELING TO 6'-0" A.F.F.; SEE 9/A3.9	
D1		GYPSUM BOARD TO 4" ABOVE CEILING	

XXI	DETAIL & SPACING	DESCRIPTION	REMARKS
D2		MORTAR BOARD & SOLID SURFACE PANELS TO GYPSUM BOARD CEILING	

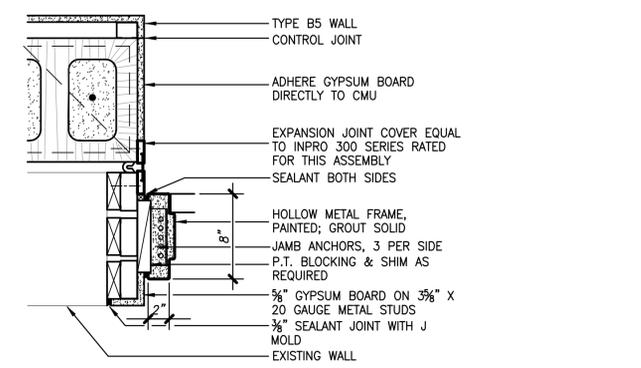
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL REQUIREMENTS IN WALLS/PARTITIONS. STRUCTURAL DRAWINGS SUPERCEDE THESE FOR DETAILS OF STRUCTURAL ELEMENTS.
- UNLESS OTHERWISE NOTED, ALL METAL STUDS SHALL BE 25 GAGE, MINIMUM.
- PROVIDE MOISTURE RESISTANT GYPSUM BOARD WITHIN 24" OF ALL PLUMBING FIXTURES, VALVES, ETC.
- WHEREVER DIFFERENT PARTITION TYPES ABUT, SHIFT STUDS TO ALLOW FINISHED FACES OF GYPSUM BOARD TO ALIGN.
- PROVIDE 20 GAUGE METAL STUDS WHERE CABINETS AND/OR SHELVING ARE MOUNTED TO THE WALL.



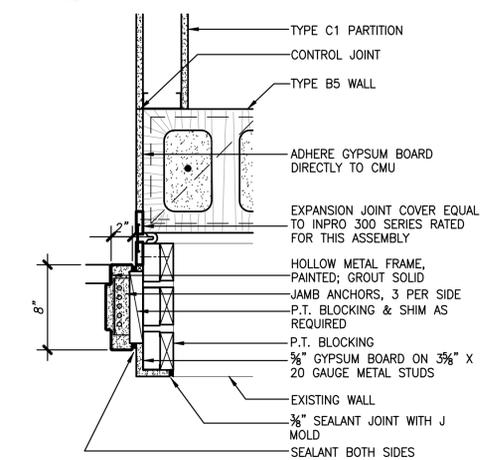
1 DOOR JAMB
3-HOUR FIRE WALL 1 1/2"=1'-0"



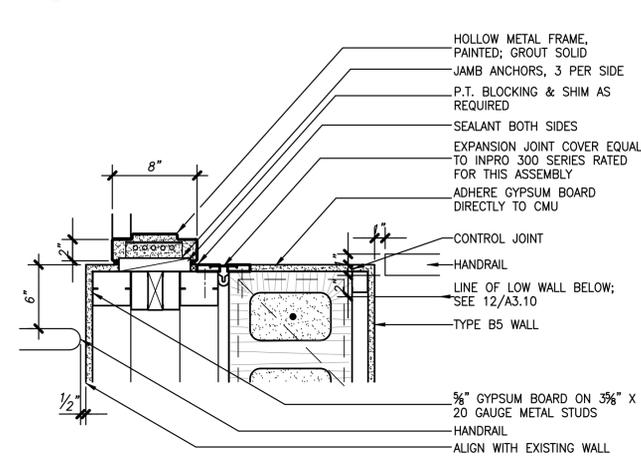
2 DOOR JAMB
3-HOUR FIRE WALL 1 1/2"=1'-0"



3 DOOR JAMB
3-HOUR FIRE WALL 1 1/2"=1'-0"



4 DOOR JAMB
3-HOUR FIRE WALL 1 1/2"=1'-0"



5 DOOR JAMB
3-HOUR FIRE WALL 1 1/2"=1'-0"

BARRY DAVIS ARCHITECTS, P.C.
ONE RIVERCHASE RIDGE, SUITE 102
BIRMINGHAM, ALABAMA 35244
205.444-1112 www.BarryDavisArchitects.com

HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

REVISIONS

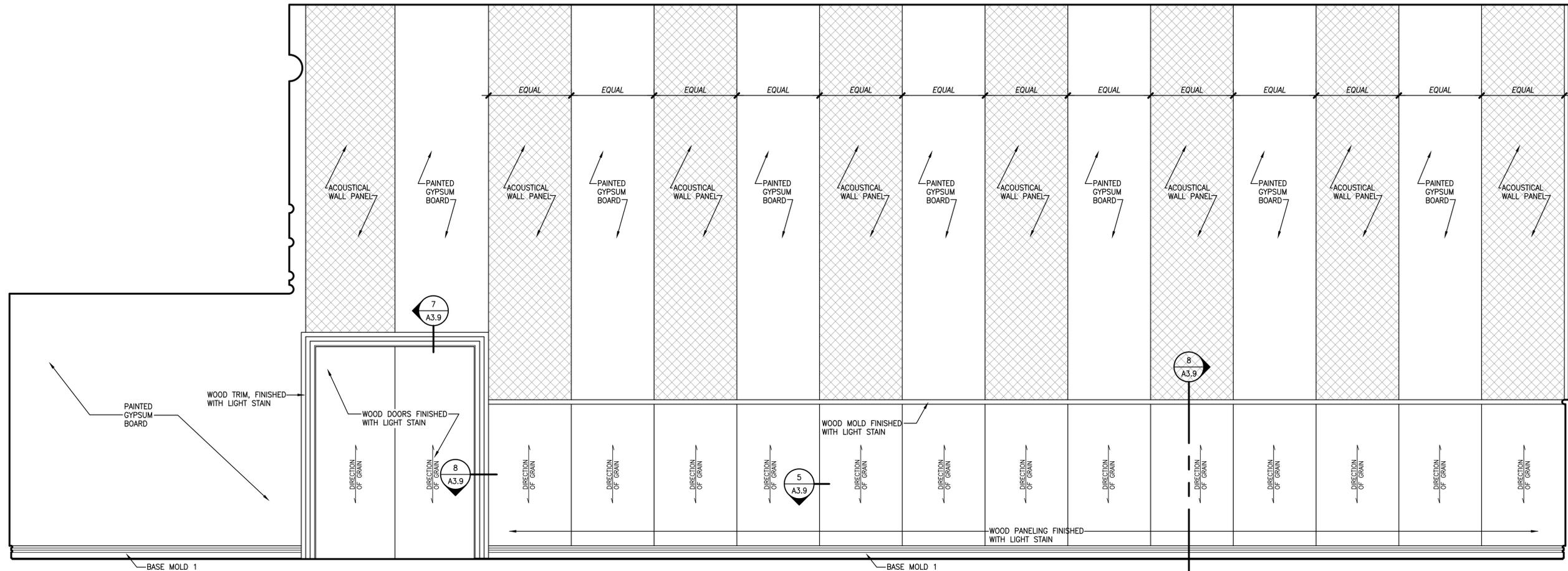
DATE: 4/15/2025
PROJECT # 2102
DRAWN BY DAVIS
CHECKED BY DAVIS

A3.3

PARTITION SCHEDULE

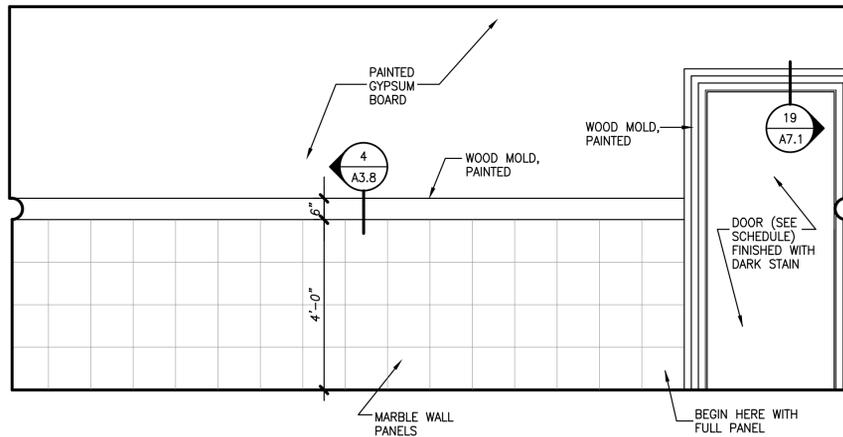
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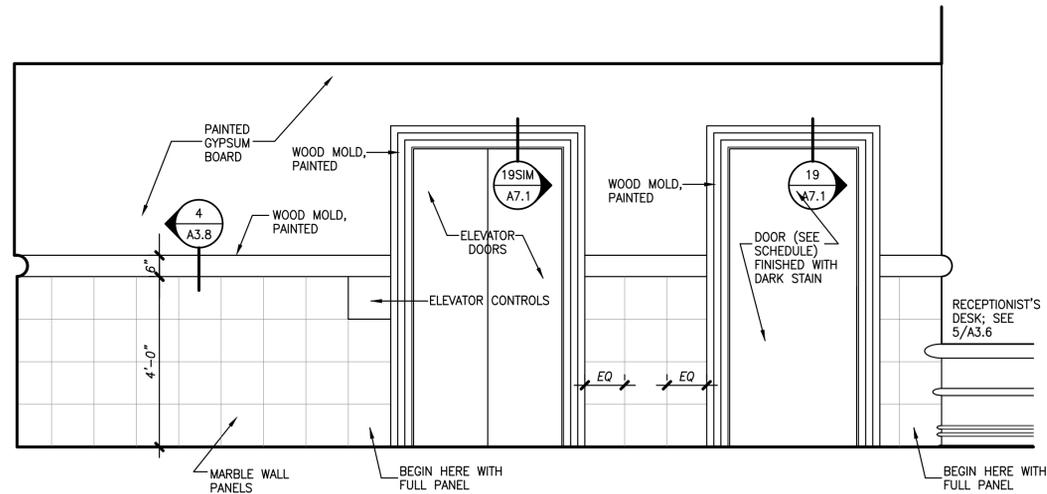


- PROVIDE A SKIM COAT OF GYPSUM VENEER PLASTER OVER ALL EXPOSED GYPSUM BOARD IN THIS SPACE.
- THE ARCHITECT WILL SELECT TWO (2) STAIN COLORS — ONE DARK AND ONE LIGHT — FROM THE PAINT MANUFACTURER'S FULL LINE OF STANDARD COLORS TO BE USED AS INDICATED ON THE MILLWORK.

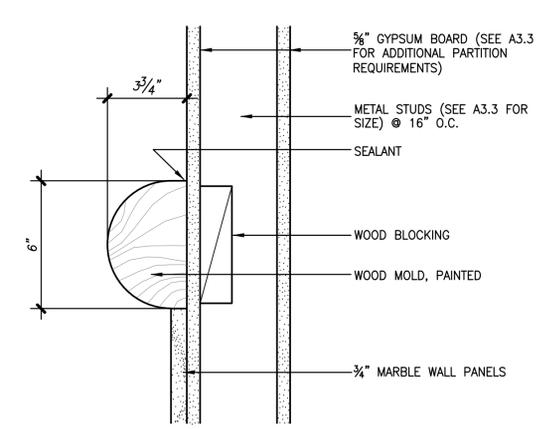
1 CITY COUNCIL MEETING ROOM, SOUTH
1/2"=1'-0"



2 LOBBY 101 EAST
1/2"=1'-0"

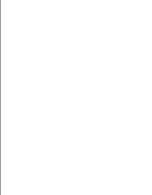


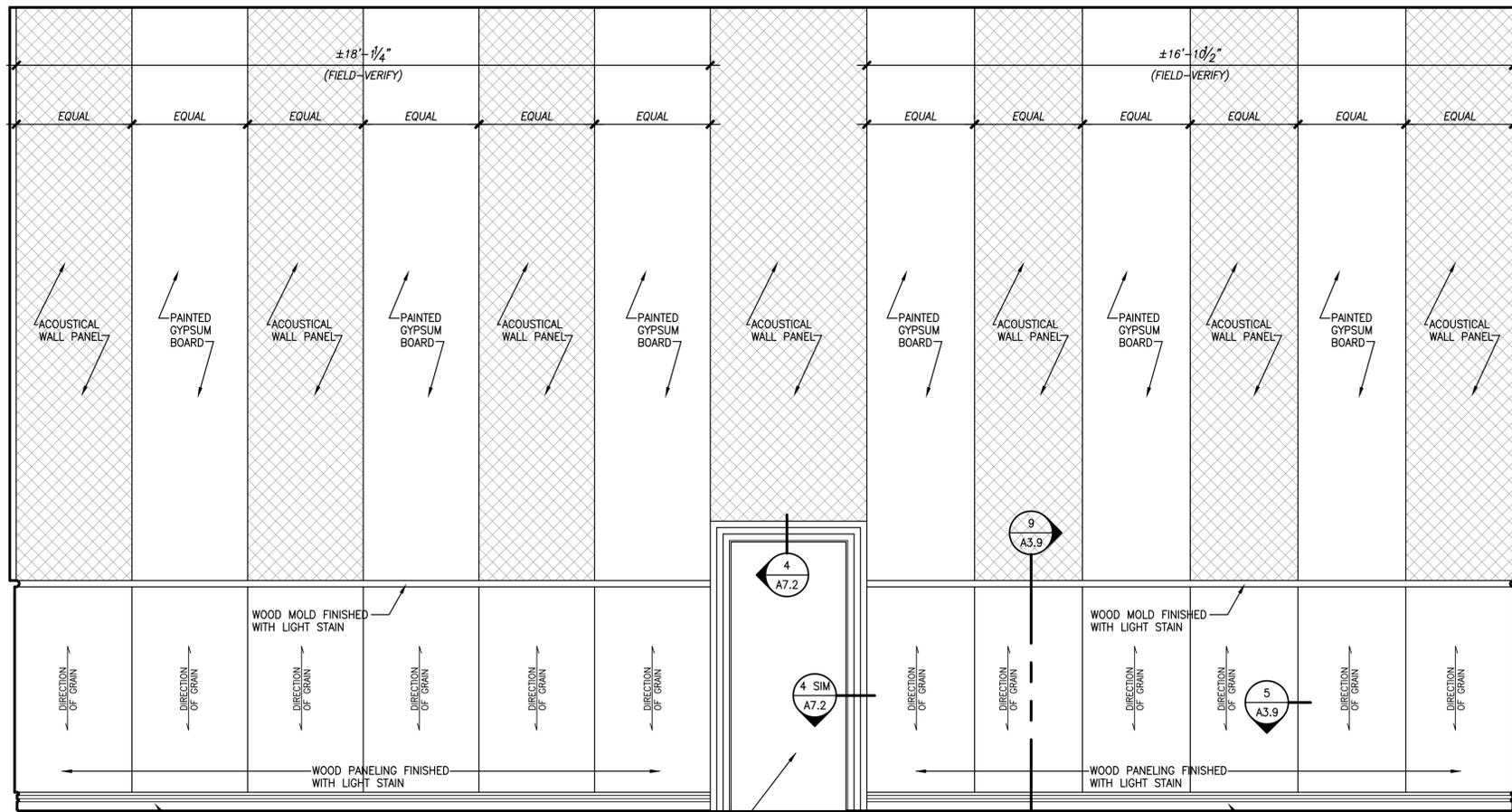
3 LOBBY 101 SOUTH
1/2"=1'-0"



4 WOOD MOLD @ MARBLE
3"=1'-0"

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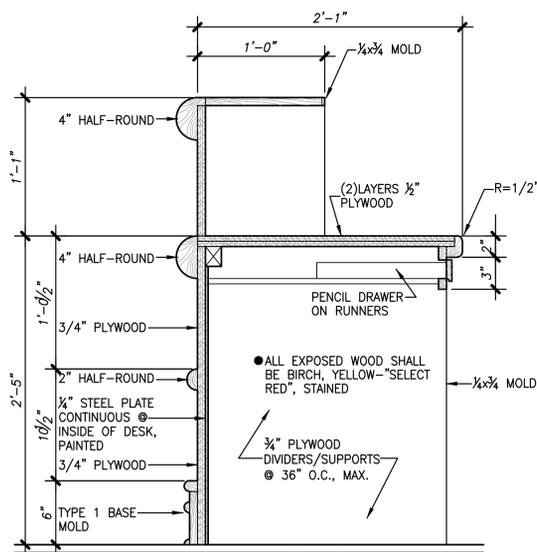




1 CITY COUNCIL MEETING ROOM, WEST

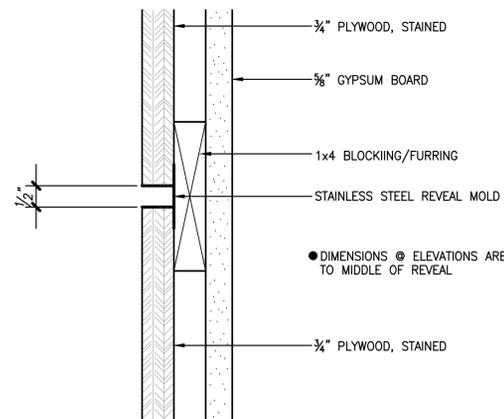
1/2"=1'-0"

- PROVIDE A SKIM COAT OF GYPSUM VENEER PLASTER OVER ALL EXPOSED GYPSUM BOARD IN THIS SPACE.
- THE ARCHITECT WILL SELECT TWO (2) STAIN COLORS — ONE DARK AND ONE LIGHT — FROM THE PAINT MANUFACTURER'S FULL LINE OF STANDARD COLORS TO BE USED AS INDICATED ON THE MILLWORK.



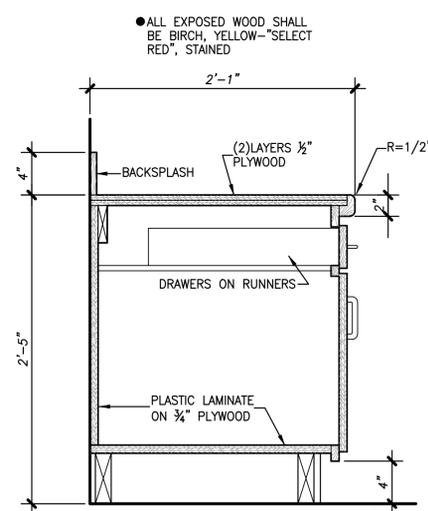
4 RECEPTIONIST'S DESK

1 1/2"=1'-0"



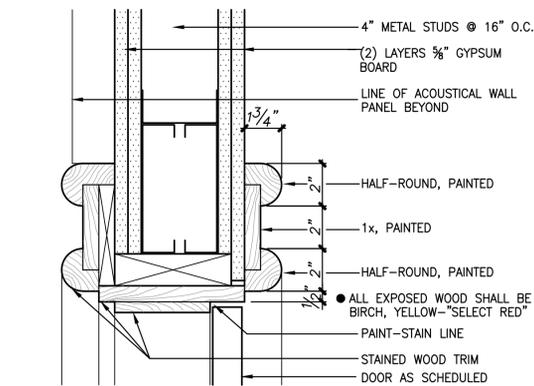
5 REVEAL @ WALL PANELING

HALF SIZE



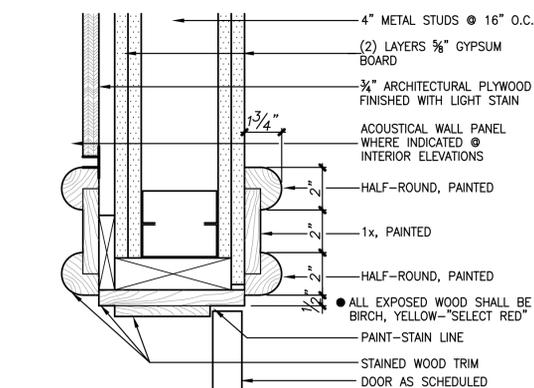
6 RECEPTIONIST'S DESK

1 1/2"=1'-0"



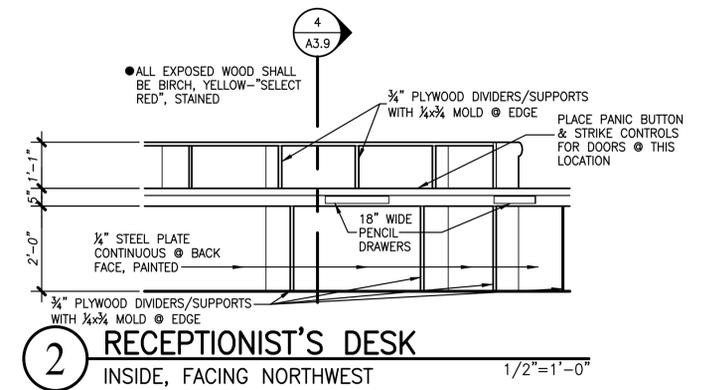
7 DOOR HEAD

3"=1'-0"



8 DOOR JAMB

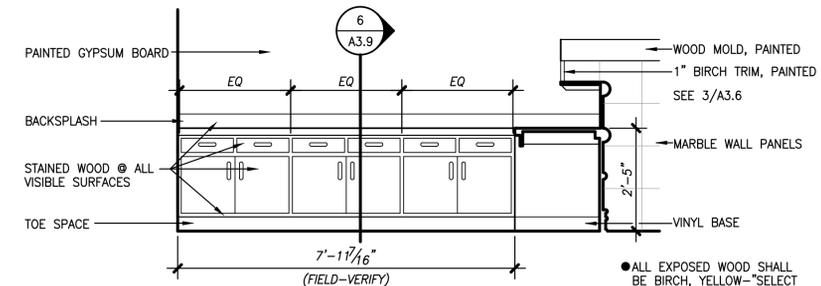
3"=1'-0"



2 RECEPTIONIST'S DESK

INSIDE, FACING NORTHWEST

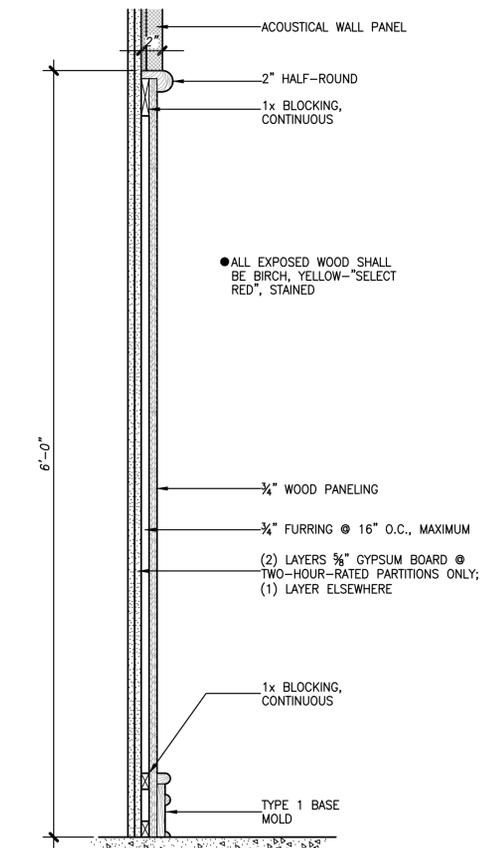
1/2"=1'-0"



3 RECEPTIONIST'S DESK

INSIDE, FACING SOUTH

1/2"=1'-0"

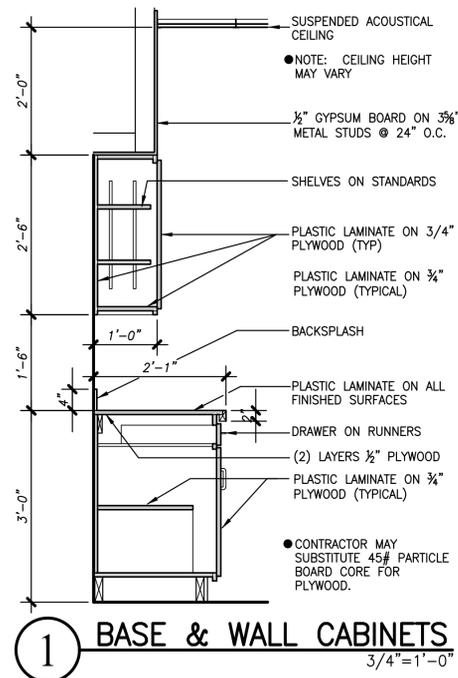


9 MEETING ROOM WAINSCOT

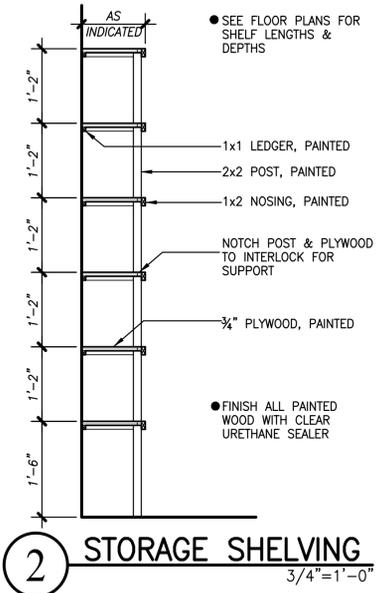
1 1/2"=1'-0"

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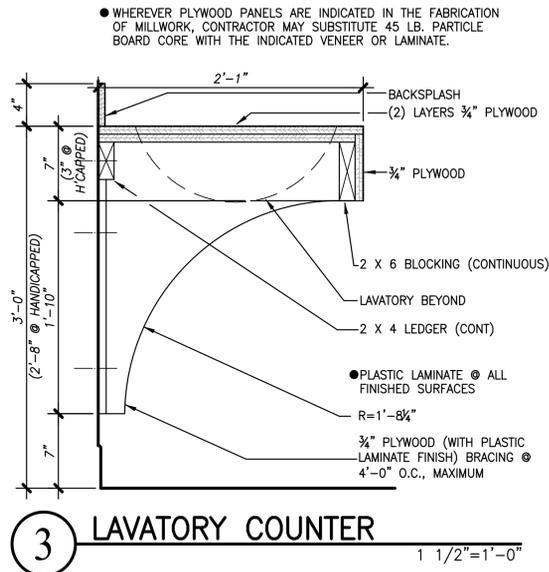




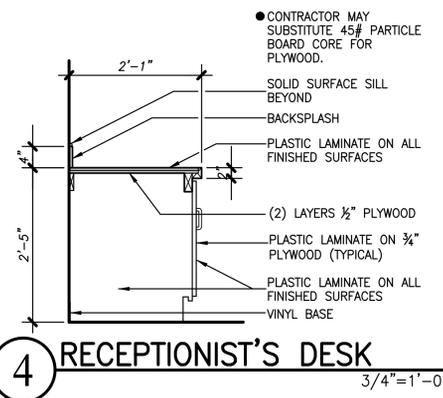
1 BASE & WALL CABINETS
3/4"=1'-0"



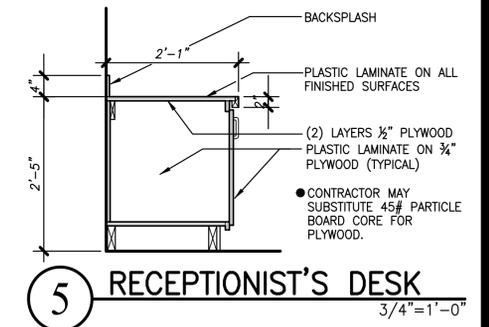
2 STORAGE SHELVING
3/4"=1'-0"



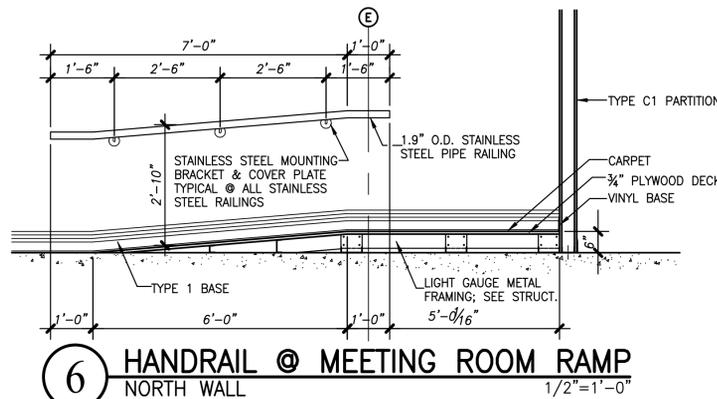
3 LAVATORY COUNTER
1 1/2"=1'-0"



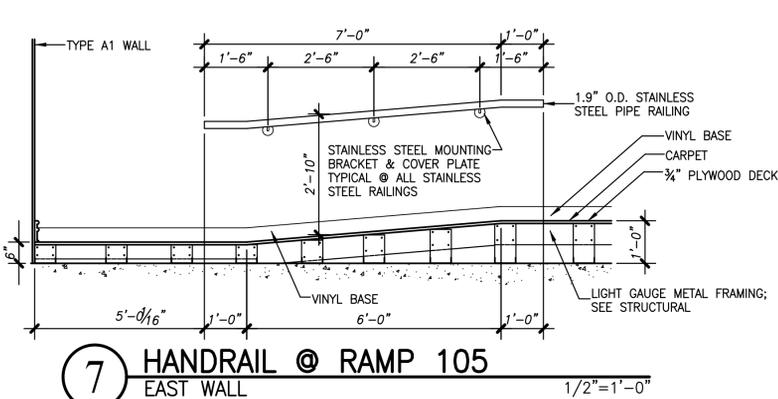
4 RECEPTIONIST'S DESK
3/4"=1'-0"



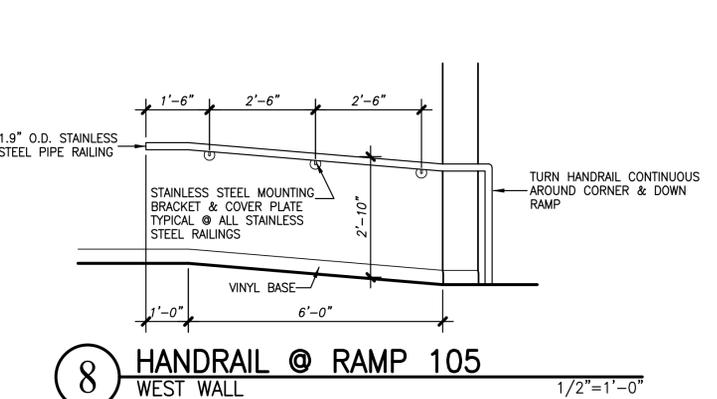
5 RECEPTIONIST'S DESK
3/4"=1'-0"



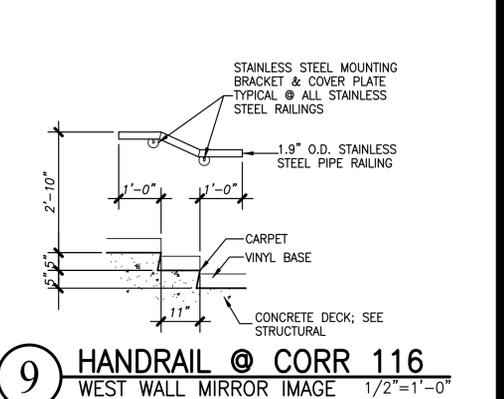
6 HANDRAIL @ MEETING ROOM RAMP NORTH WALL
1/2"=1'-0"



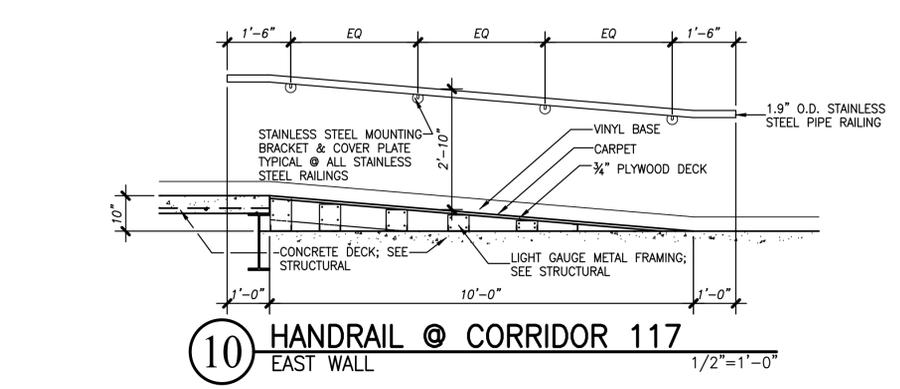
7 HANDRAIL @ RAMP 105 EAST WALL
1/2"=1'-0"



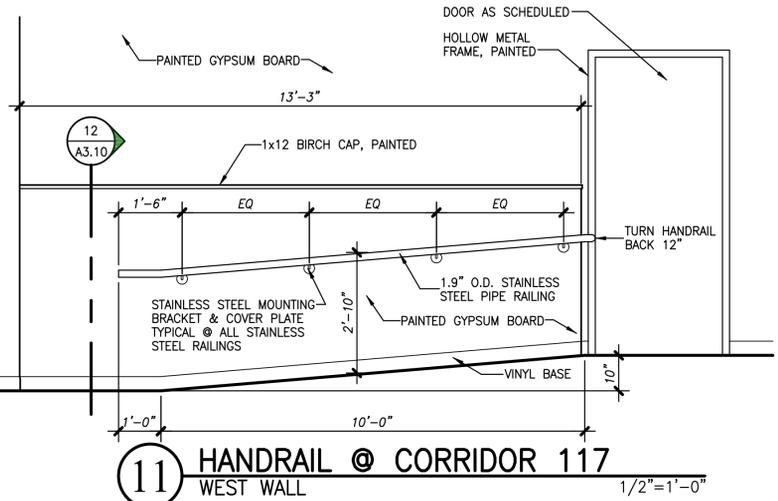
8 HANDRAIL @ RAMP 105 WEST WALL
1/2"=1'-0"



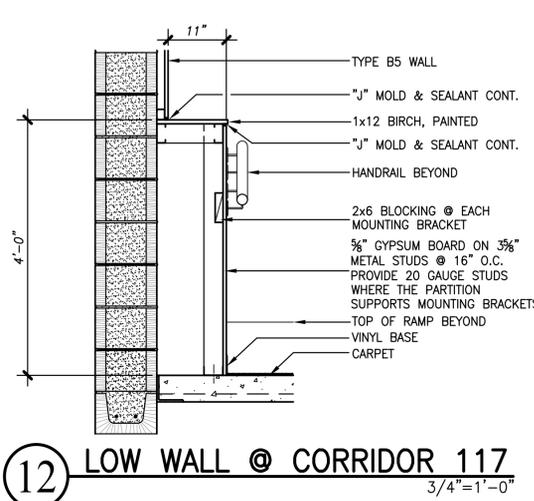
9 HANDRAIL @ CORR 116 WEST WALL MIRROR IMAGE
1/2"=1'-0"



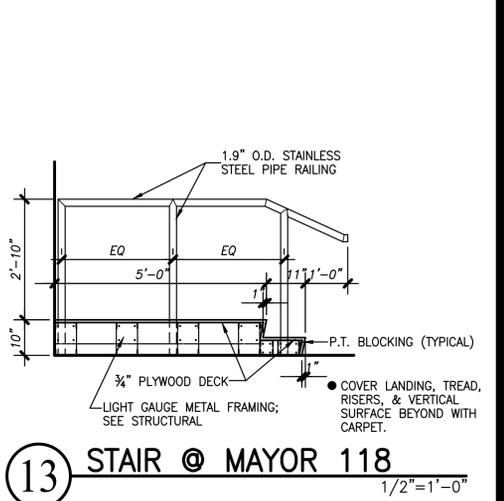
10 HANDRAIL @ CORRIDOR 117 EAST WALL
1/2"=1'-0"



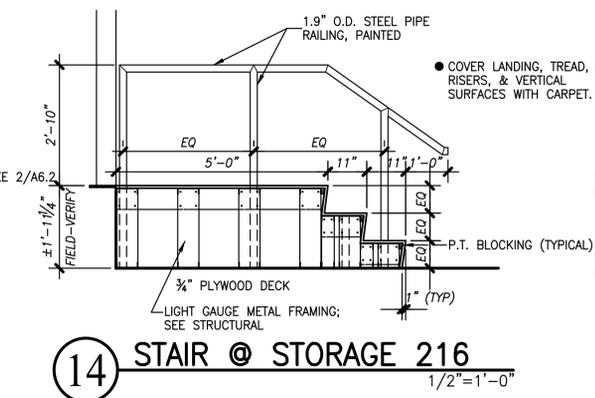
11 HANDRAIL @ CORRIDOR 117 WEST WALL
1/2"=1'-0"



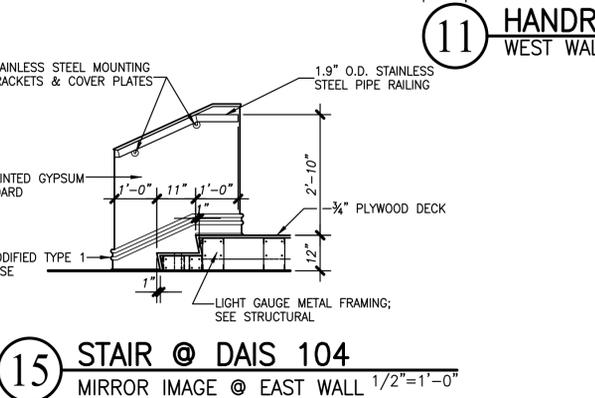
12 LOW WALL @ CORRIDOR 117
3/4"=1'-0"



13 STAIR @ MAYOR 118
1/2"=1'-0"

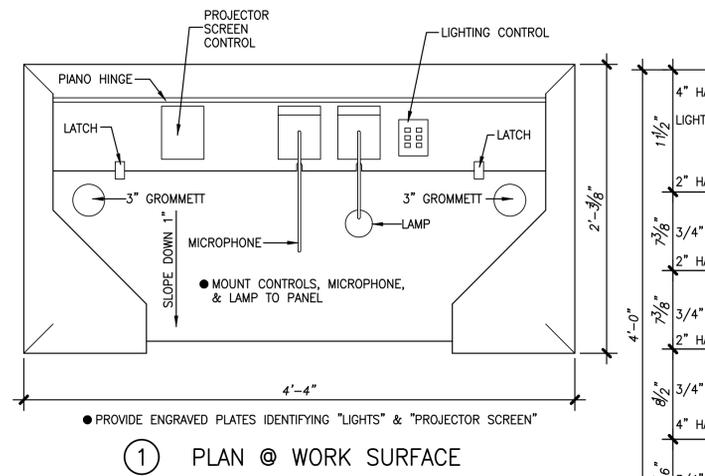


14 STAIR @ STORAGE 216
1/2"=1'-0"

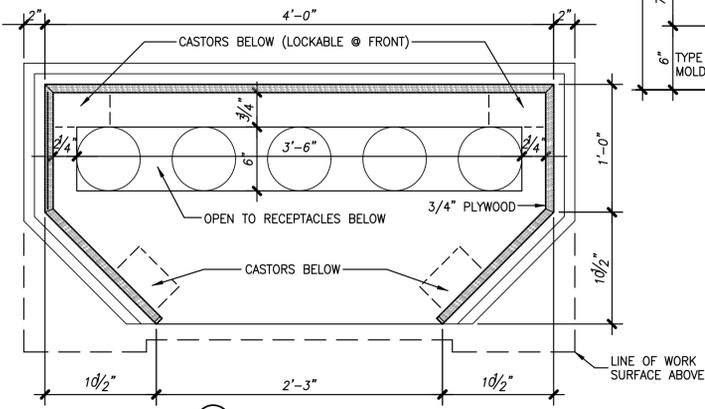


15 STAIR @ DAIS 104 MIRROR IMAGE @ EAST WALL
1/2"=1'-0"

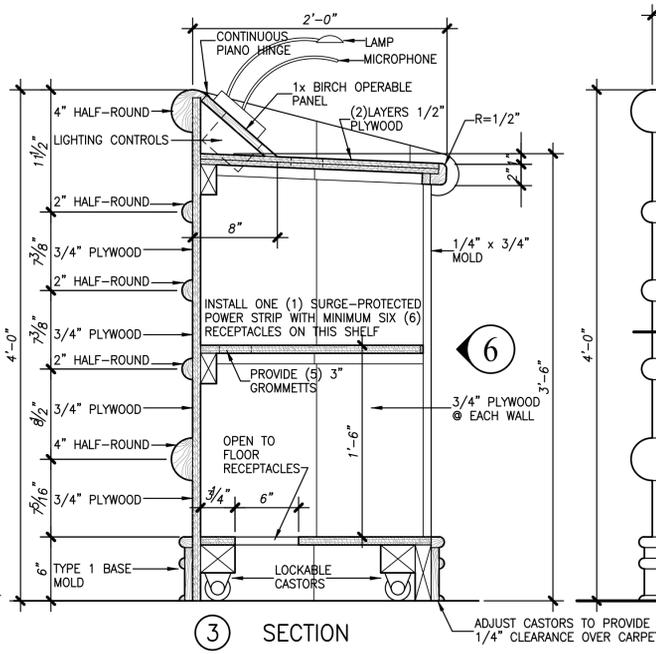
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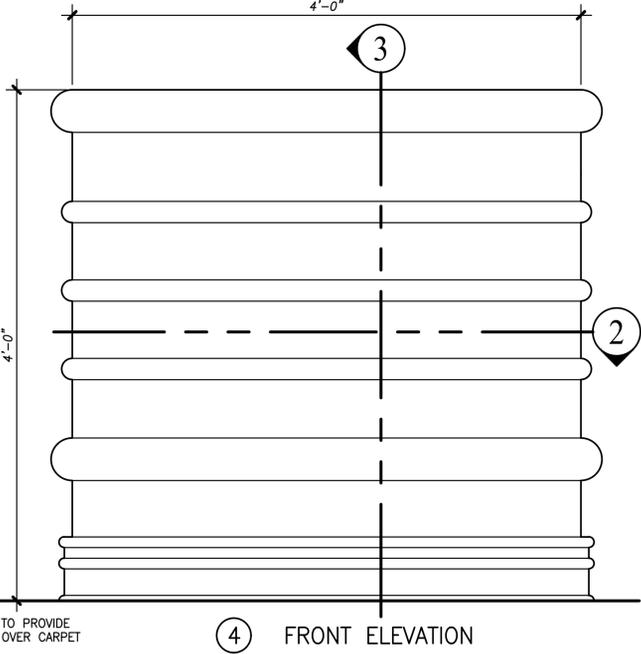
① PLAN @ WORK SURFACE



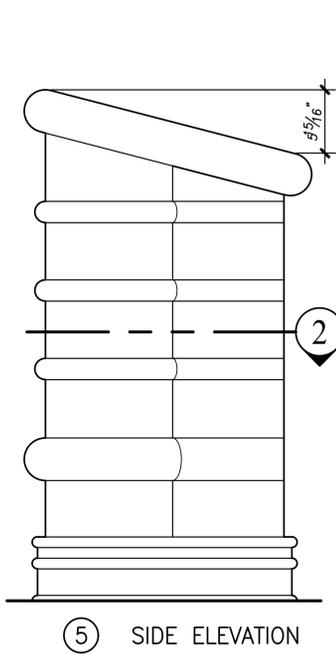
② PLAN-SECTION



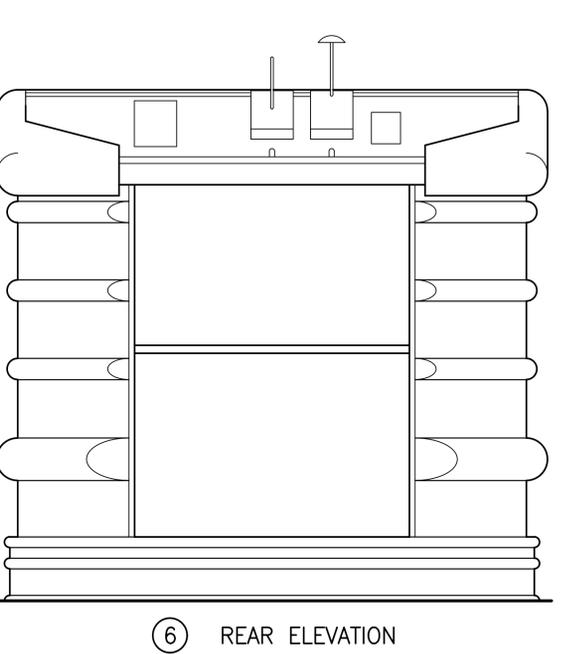
③ SECTION



④ FRONT ELEVATION



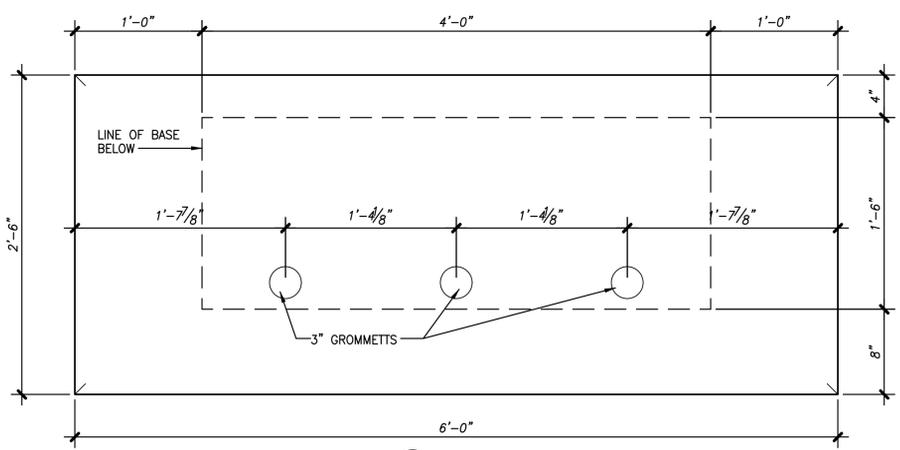
⑤ SIDE ELEVATION



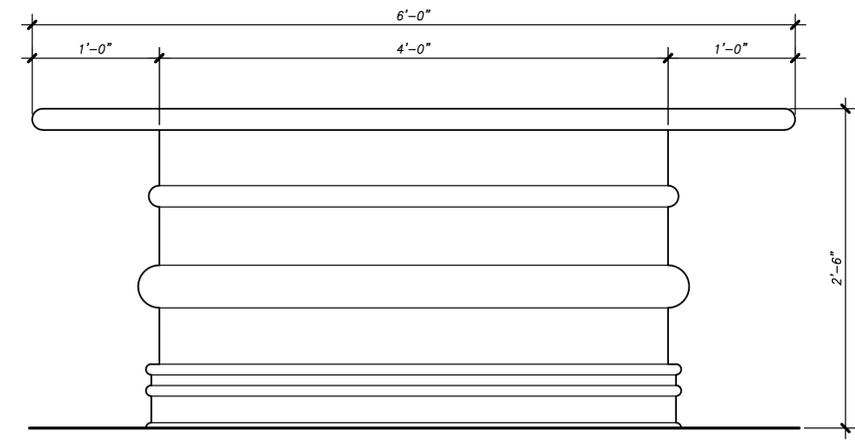
⑥ REAR ELEVATION

A PODIUM
1 1/2" = 1'-0"

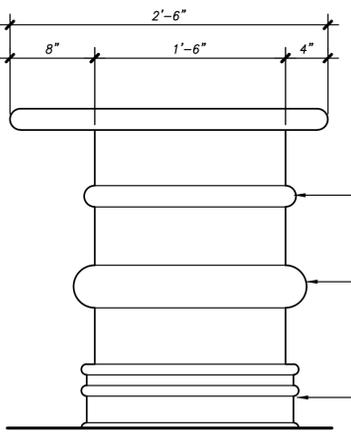
● ALL EXPOSED (VISIBLE) WOOD SHALL BE BIRCH, YELLOW-"SELECT RED", FINISHED WITH DARK STAIN



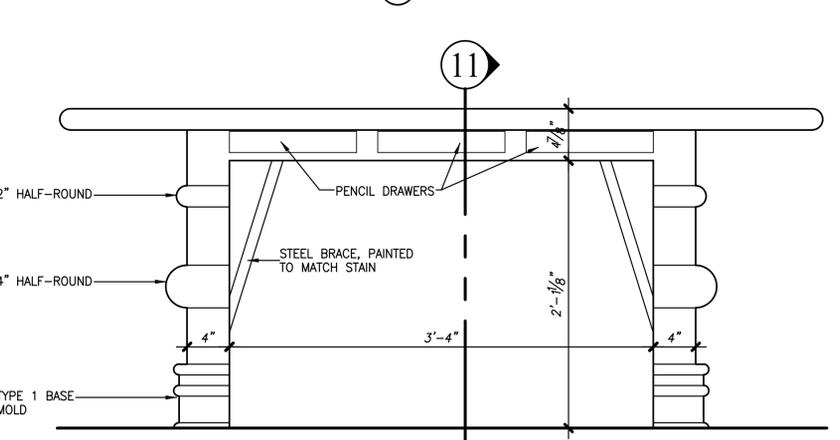
⑦ PLAN



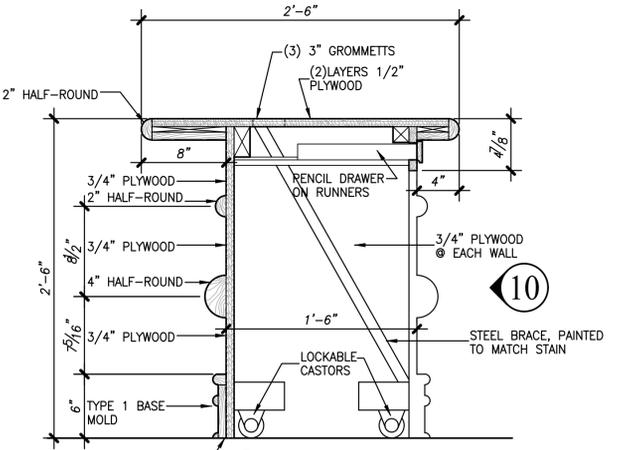
⑧ FRONT ELEVATION



⑨ SIDE ELEVATION



⑩ REAR ELEVATION



⑪ SECTION

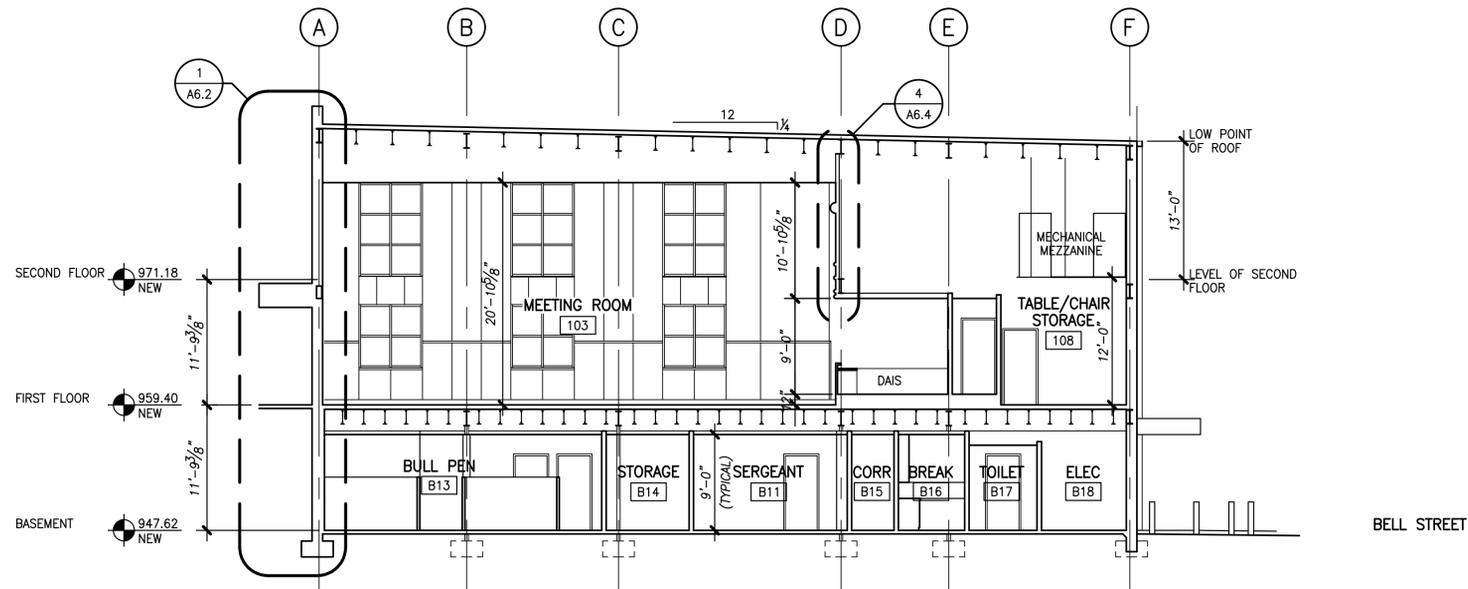
ADJUST CASTORS TO PROVIDE 1/4" CLEARANCE OVER CARPET

B TABLE
1 1/2" = 1'-0"

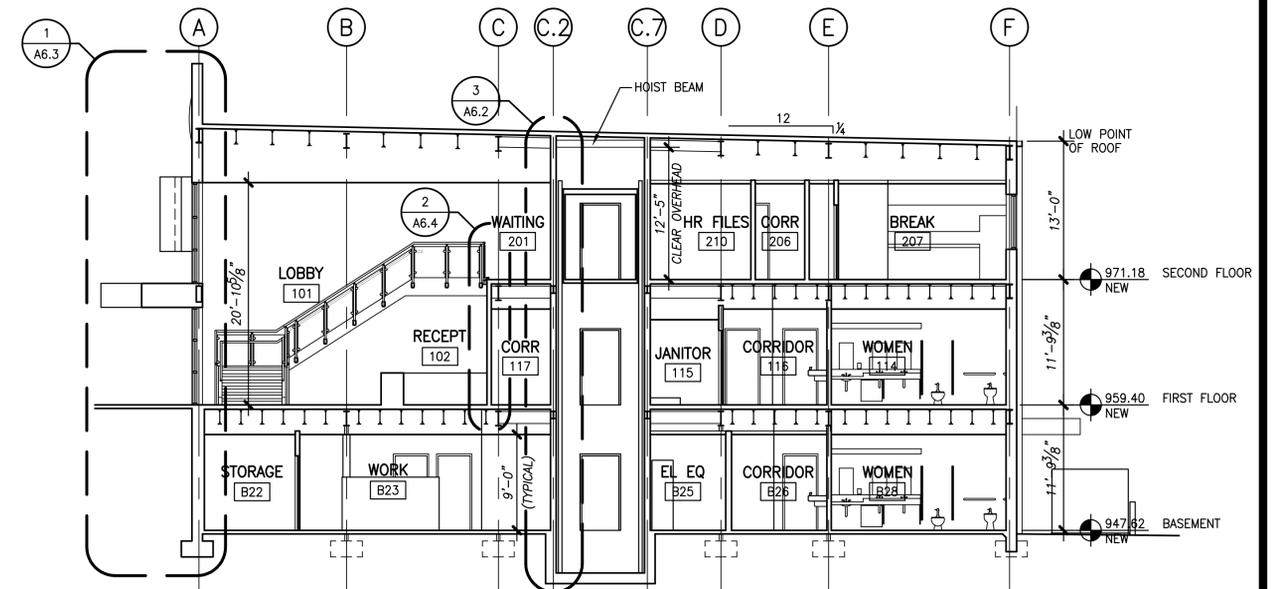
● ALL EXPOSED (VISIBLE) WOOD SHALL BE BIRCH, YELLOW-"SELECT RED", FINISHED WITH DARK STAIN

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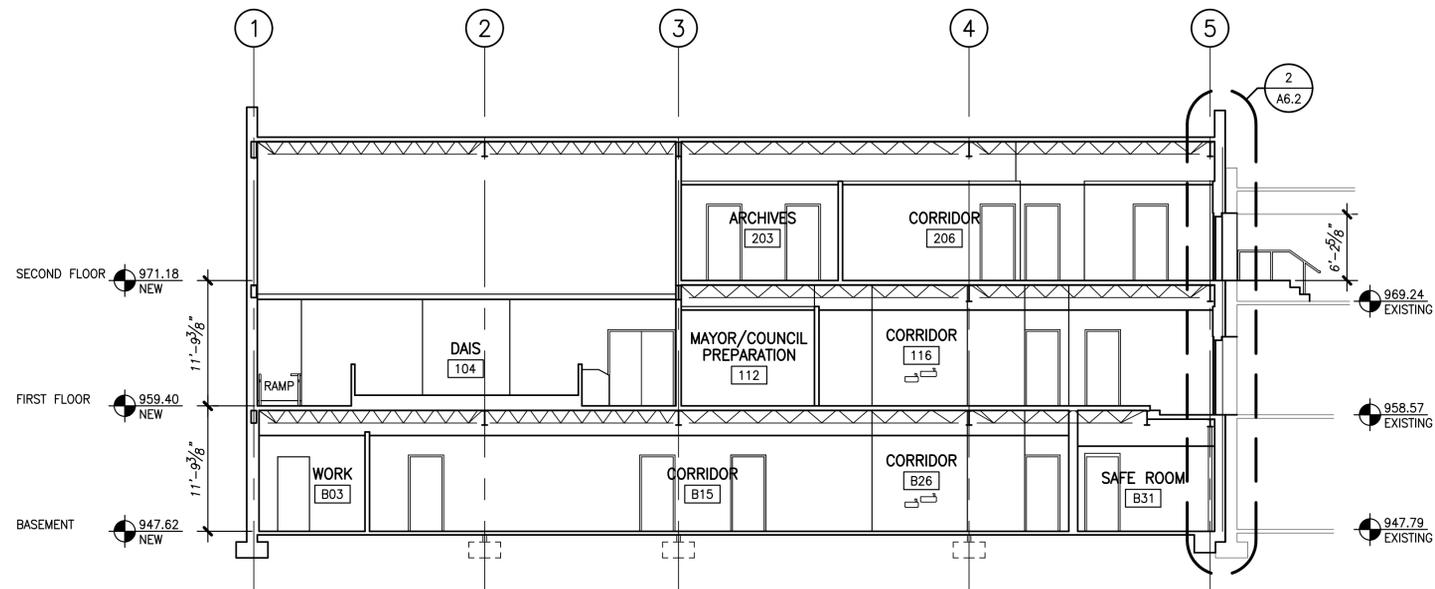




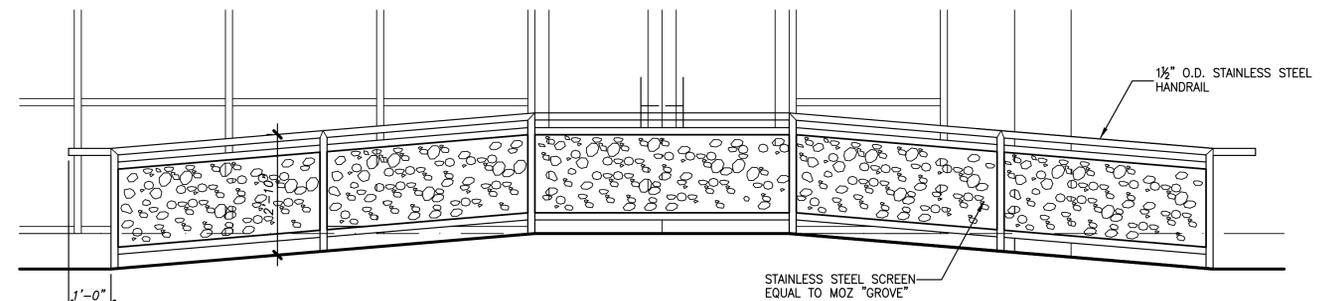
A BUILDING SECTION
EAST-WEST @ MEETING ROOM 1/8"=1'-0"



B BUILDING SECTION
EAST-WEST @ LOBBY 1/8"=1'-0"



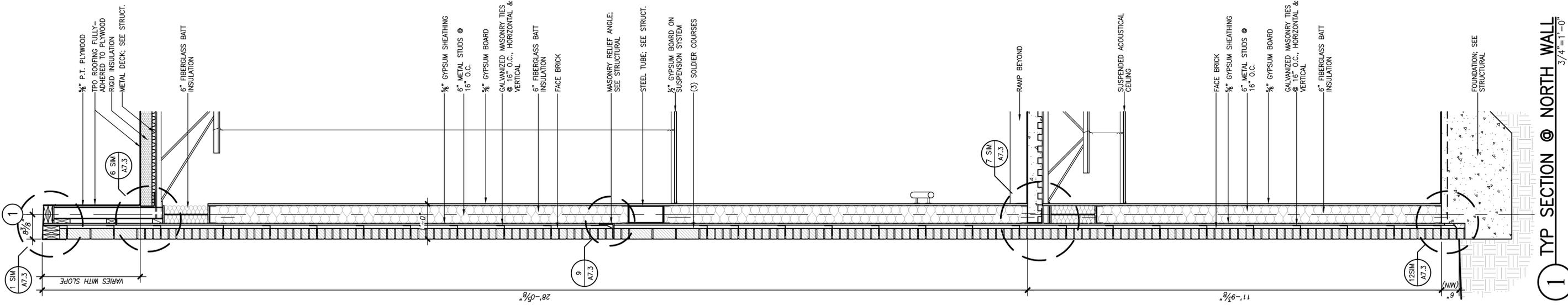
C BUILDING SECTION
NORTH-SOUTH @ DAIS 1/8"=1'-0"



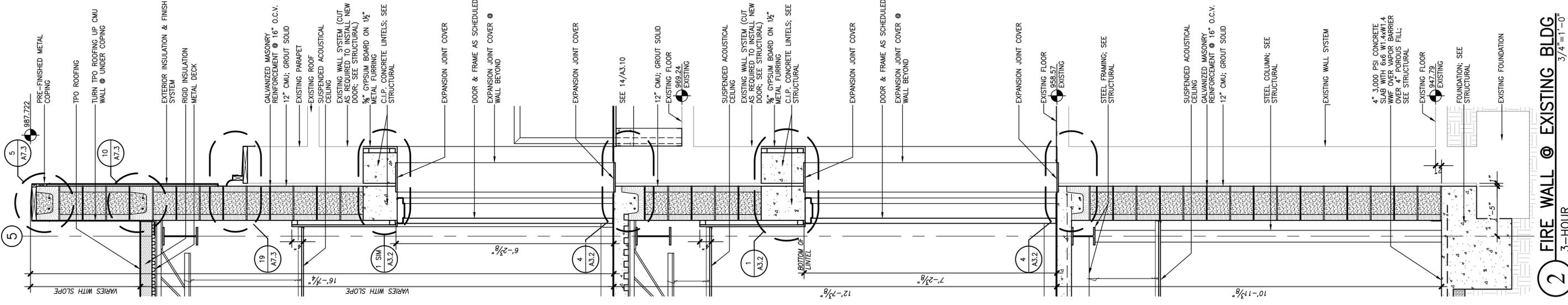
1 HANDRAIL @ ENTRANCE
NIC - FOR REFERENCE ONLY 1/2"=1'-0"



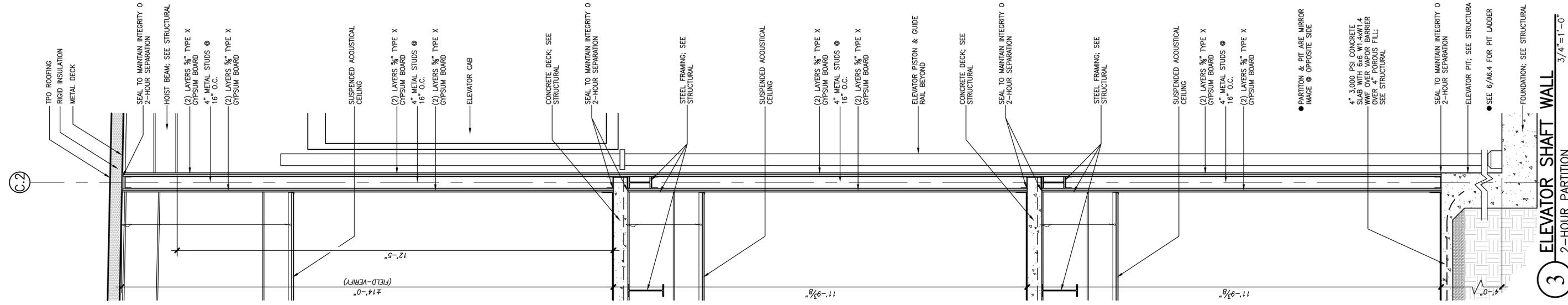
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1 TYP SECTION @ NORTH WALL
3/4"=1'-0"



2 FIRE WALL @ EXISTING BLDG
3/4"=1'-0"



3 ELEVATOR SHAFT WALL
3/4"=1'-0"

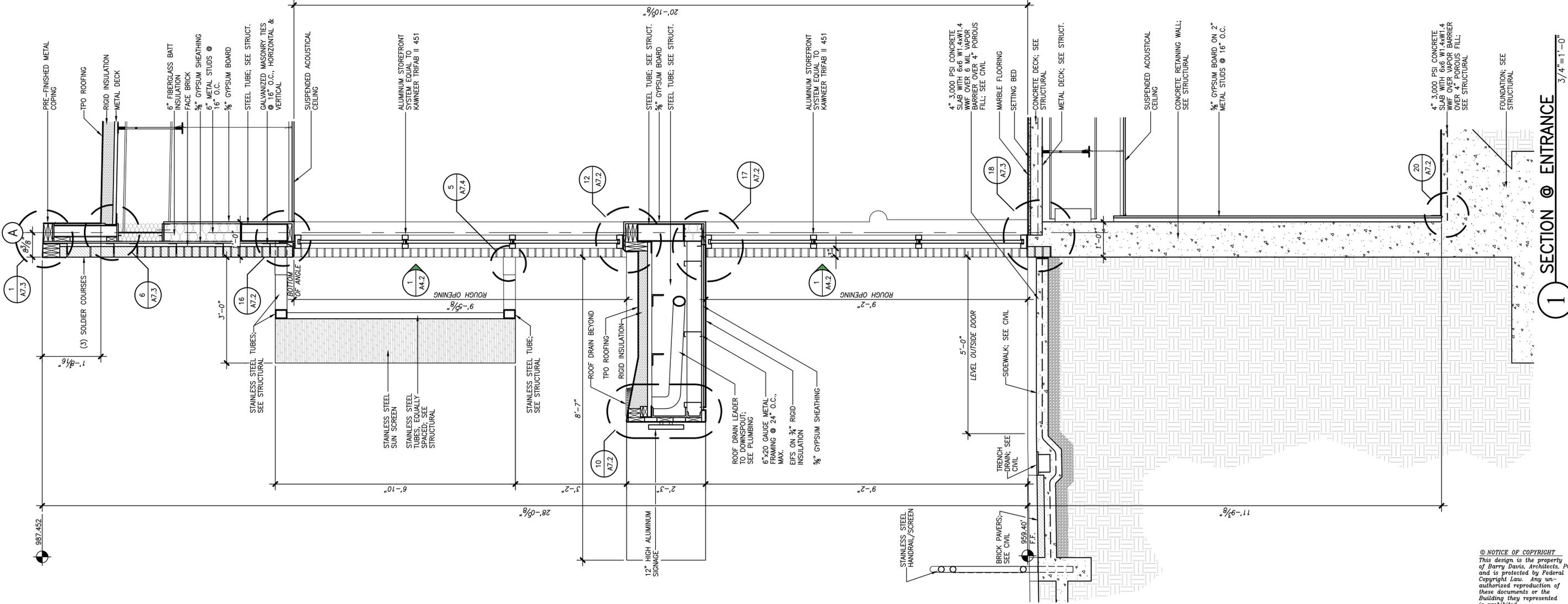
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A6.2
WALL SECTIONS
DATE: 4/15/2025
PROJECT # 2102
DRAWN BY DAVIS
CHECKED BY DAVIS
97

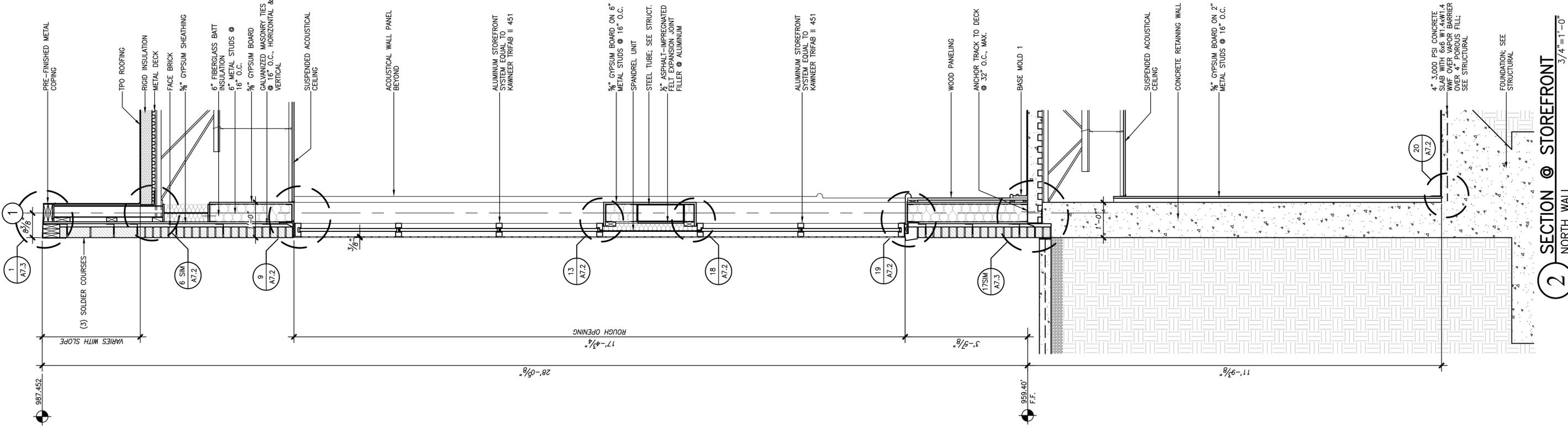
HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA



BARRY DAVIS ARCHITECTS, P.C.
ONE RIVERCHASE RIDGE, SUITE 102
BIRMINGHAM, ALABAMA 35244
205.444-1112 www.BarryDavisArchitects.com

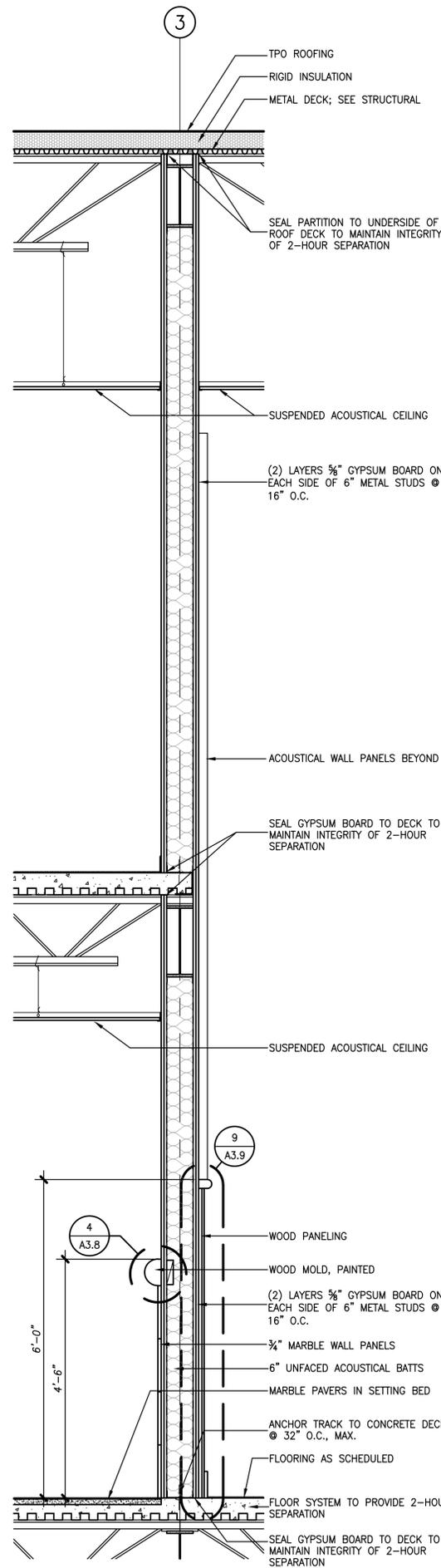


SECTION @ ENTRANCE
3/4"=1'-0"

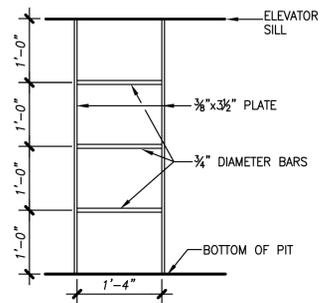


SECTION @ STOREFRONT
3/4"=1'-0"

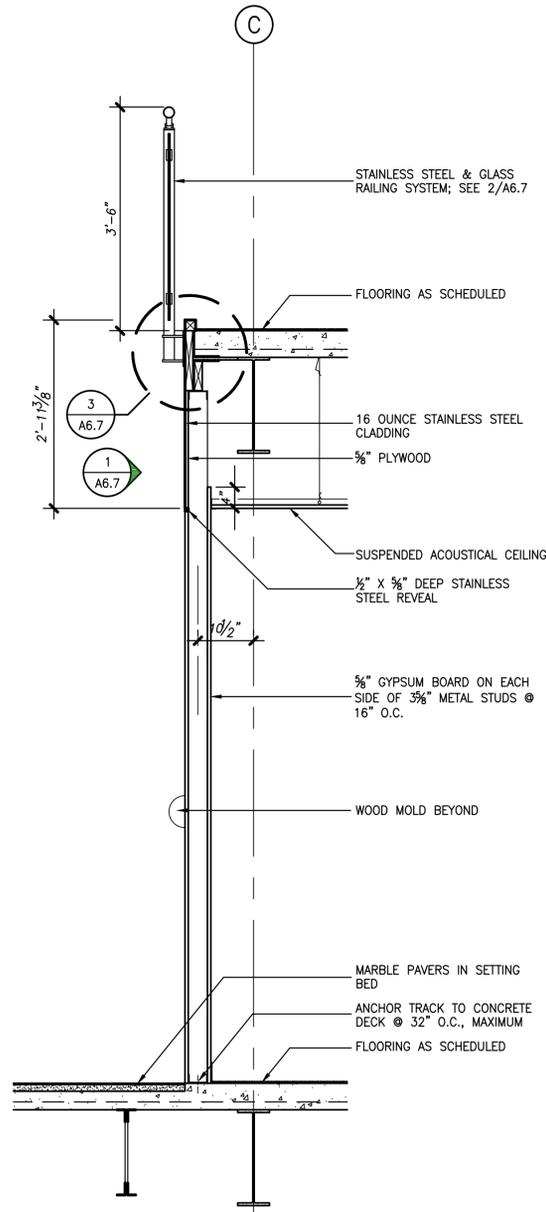
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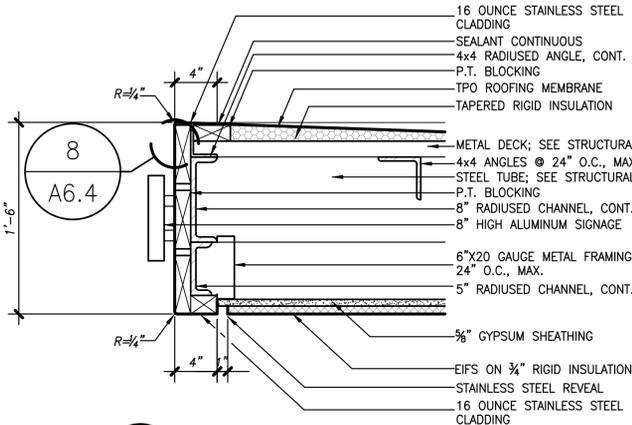
1 PARTITION @ MEETING 103
2-HOUR SEPARATION 3/4"=1'-0"



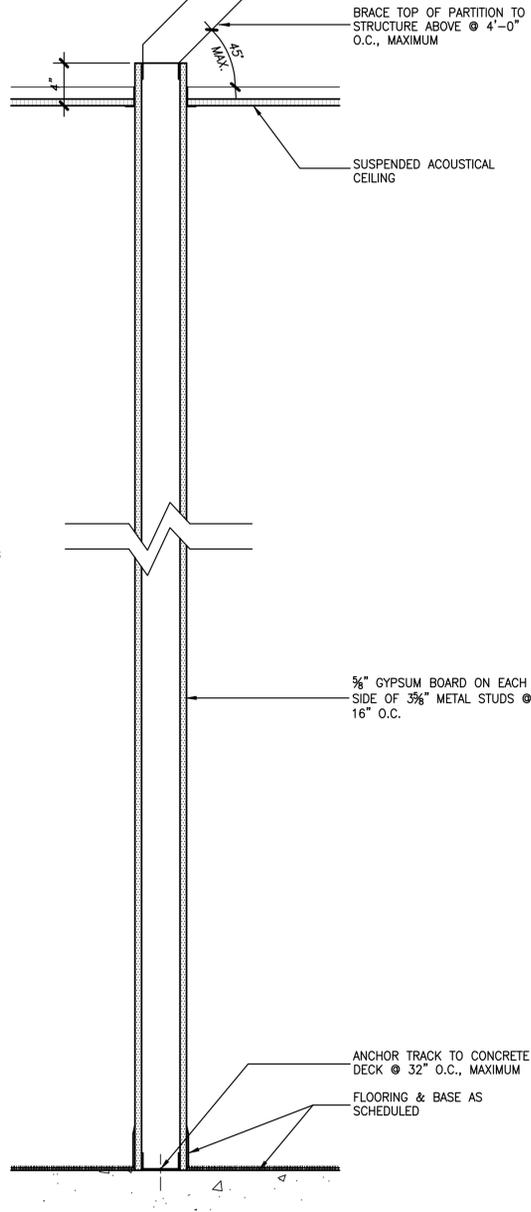
6 PIT LADDER
3/4"=1'-0"



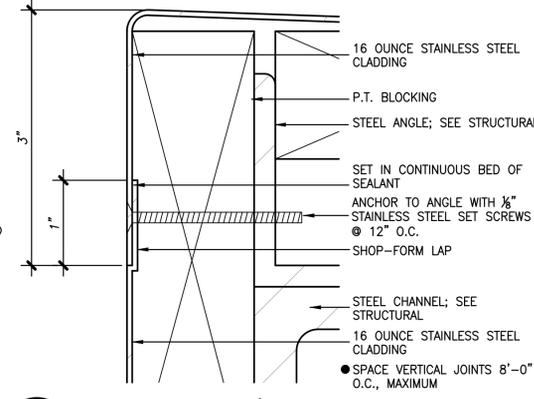
2 PARTITION @ RECEPTION
WITH GUARDRAIL ABOVE 3/4"=1'-0"



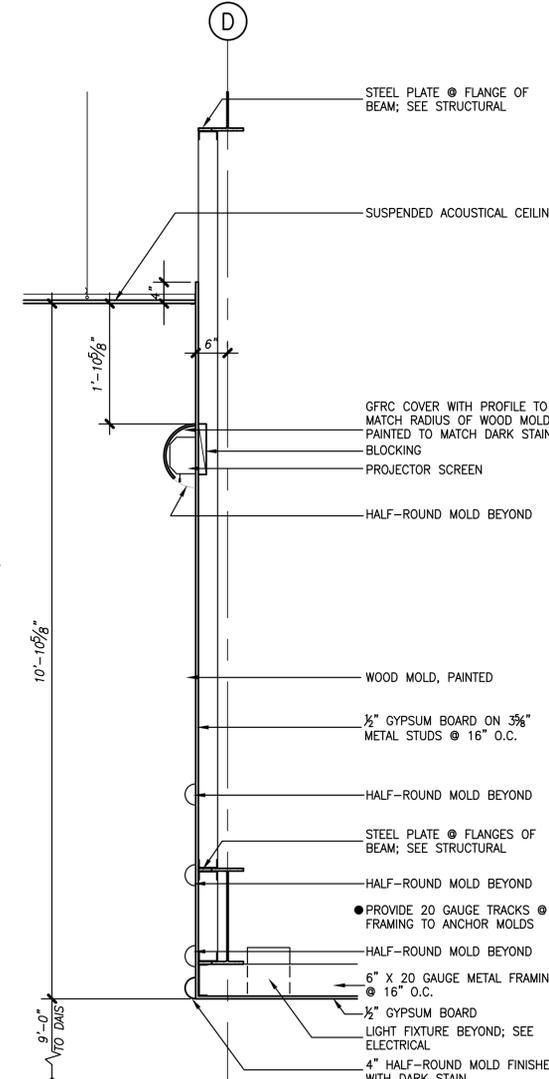
7 AWNING FASCIA
POLICE DEPARTMENT ENTRANCE 1 1/2"=1'-0"



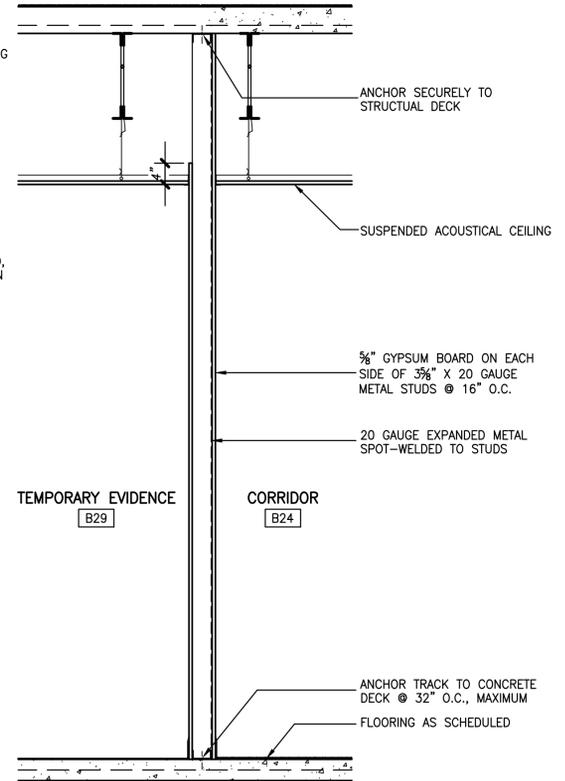
3 TYPICAL PARTITION
TYPE C1 1 1/2"=1'-0"



8 JOINT @ S/S CLADDING
SIMILAR @ VERTICAL JOINTS FULL SCALE

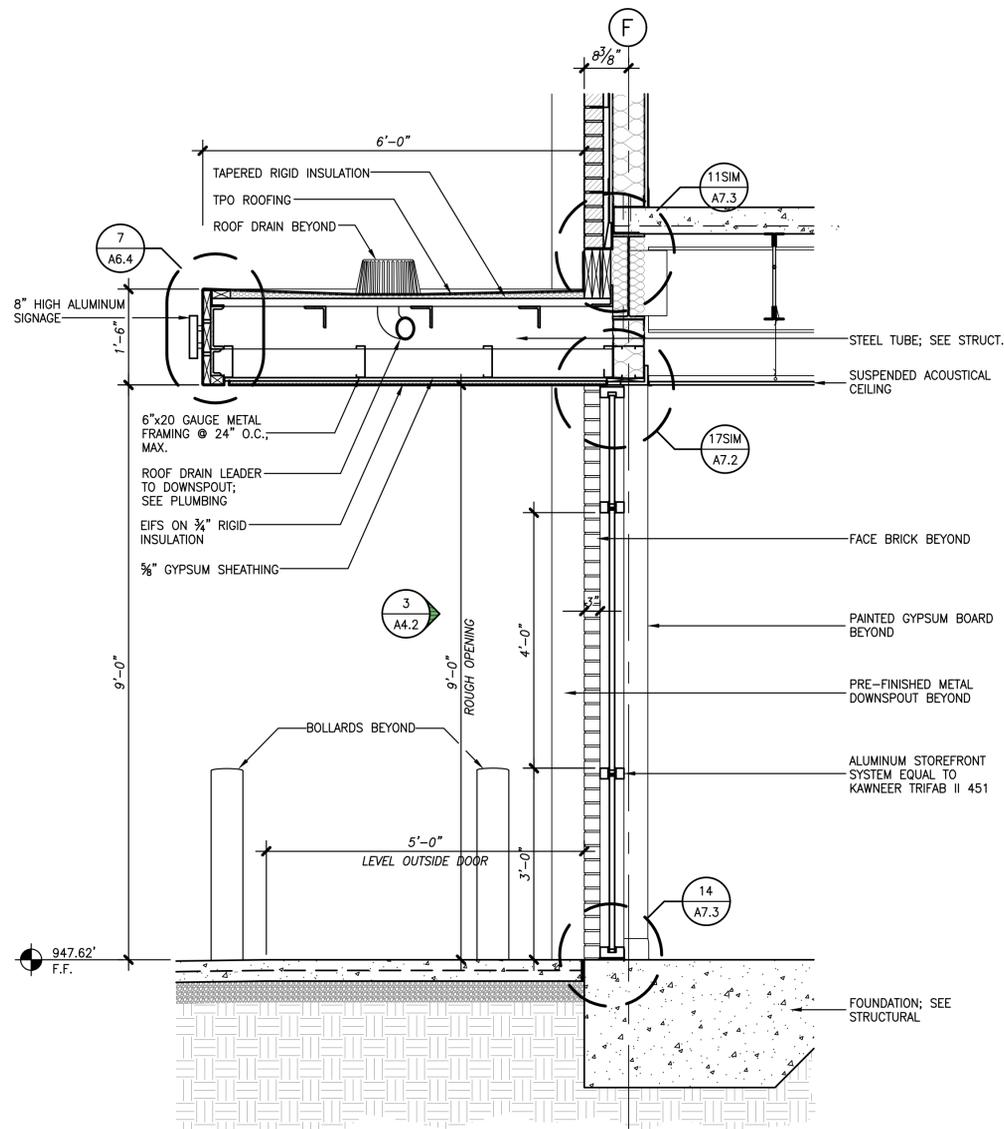


4 BULKHEAD ABOVE DAIS
3/4"=1'-0"

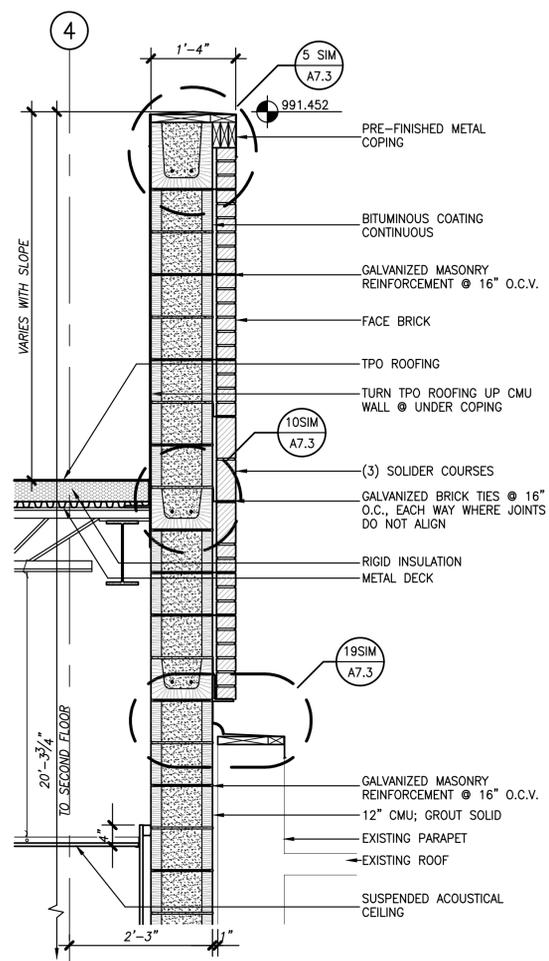


5 SECURITY PARTITION
SIMILAR @ MECHANICAL B30 3/4"=1'-0"

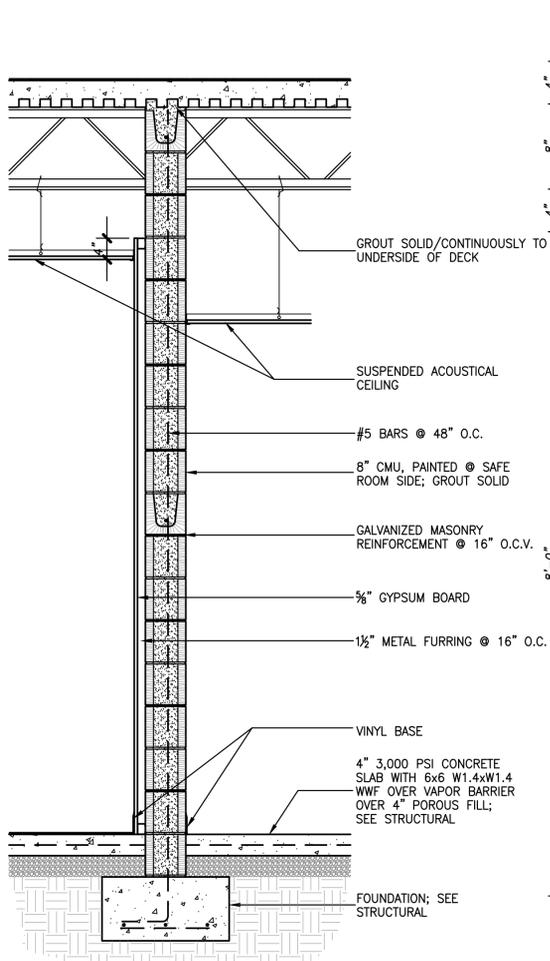
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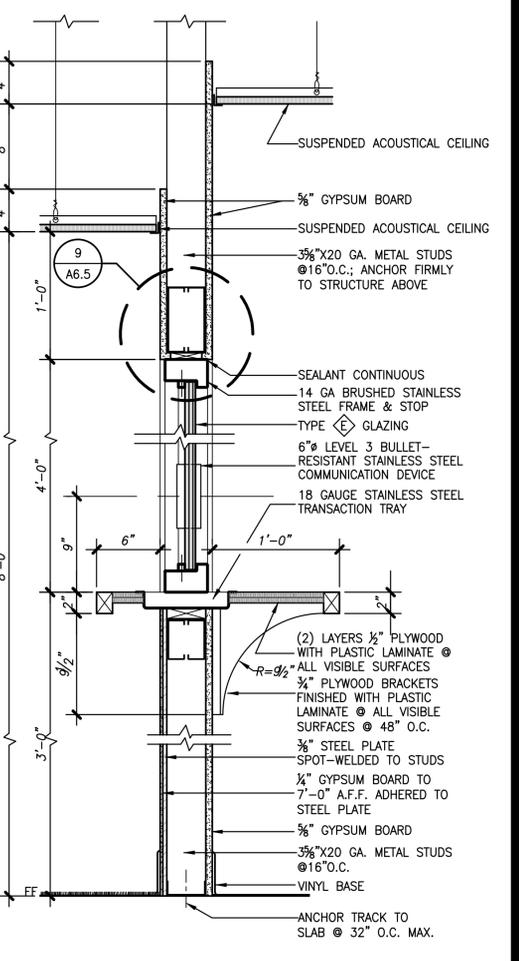
1 POLICE DEPARTMENT AWNING
3/4"=1'-0"



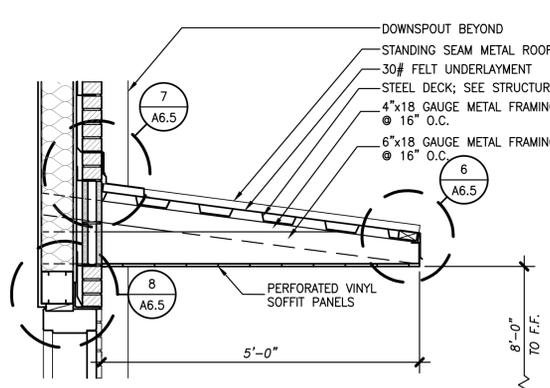
2 FIRE WALL @ EXISTING BLDG
3-HOUR WITH BRICK VENEER 3/4"=1'-0"



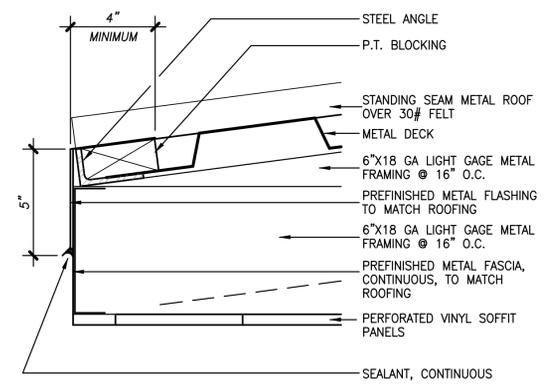
3 SAFE ROOM WALL
SIMILAR @ VAULT 123 3/4"=1'-0"



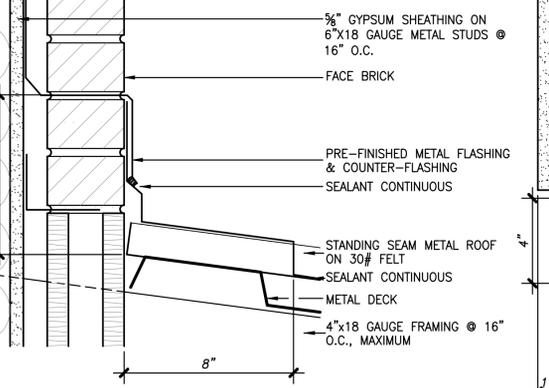
4 TRANSACTION WINDOW
POLICE DEPT LOBBY B01 1 1/2"=1'-0"



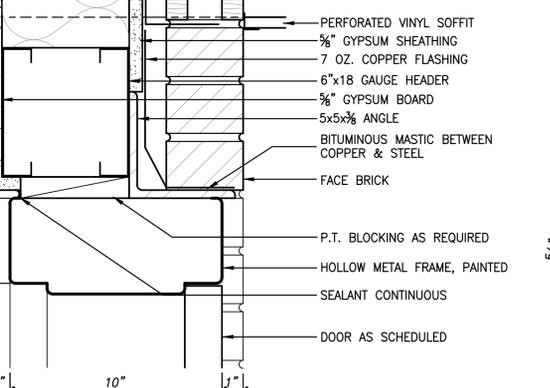
5 REAR AWNING
3/4"=1'-0"



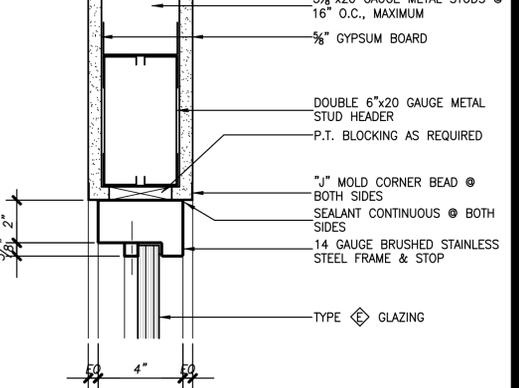
6 AWNING FASCIA
MIRROR IMAGE 3"=1'-0"



7 FLASHING @ REAR AWNING
3"=1'-0"



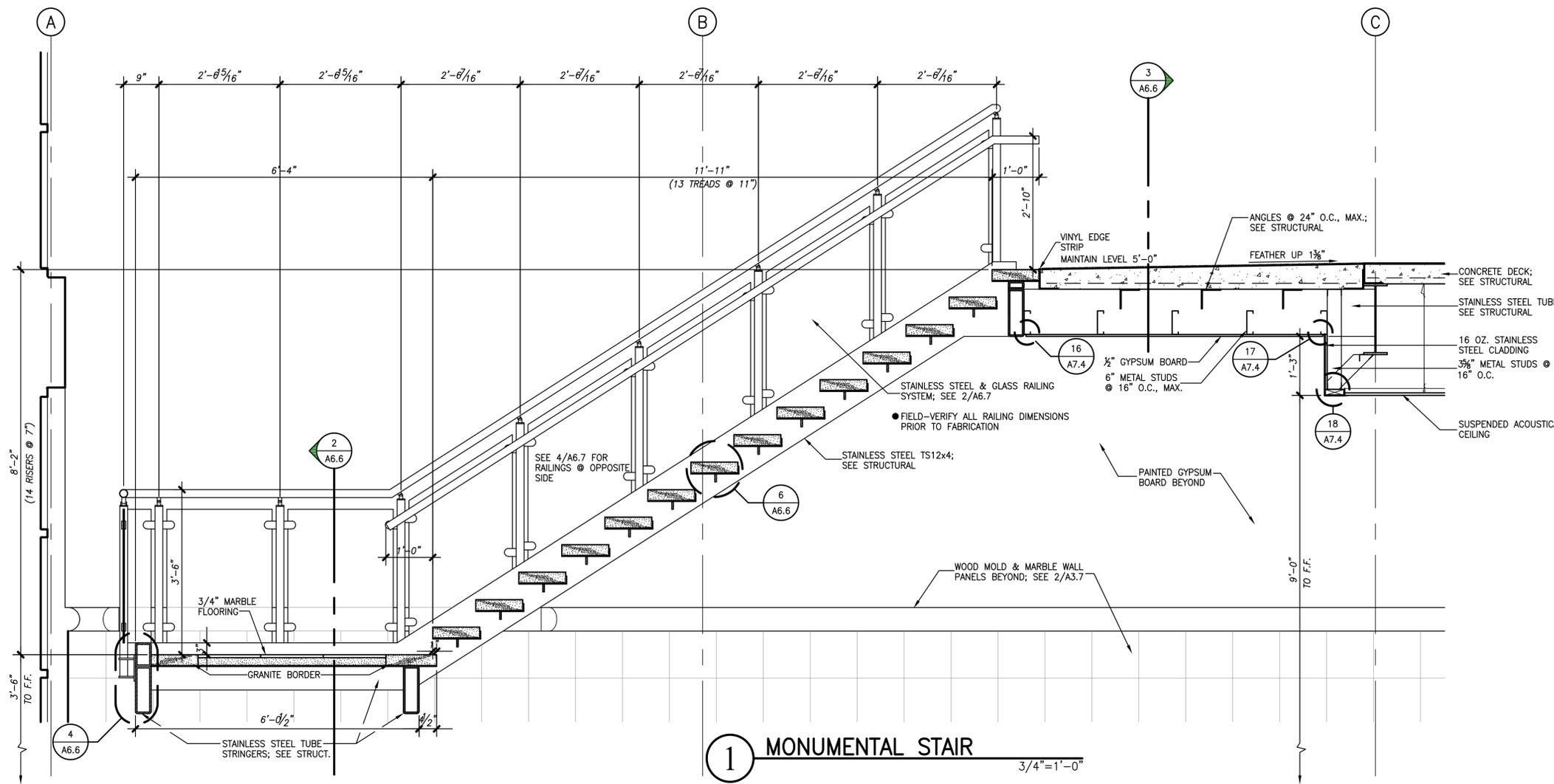
8 DOOR HEAD
@ REAR AWNING 3"=1'-0"



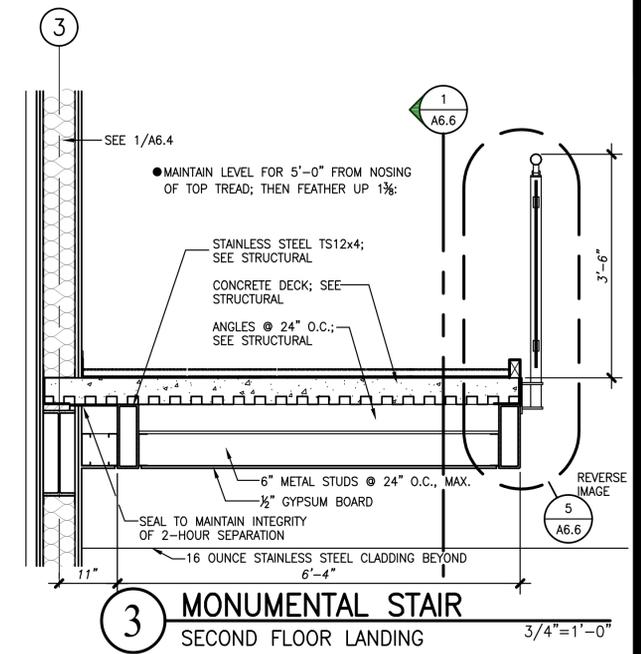
9 WINDOW HEAD
RECEPTIONIST B02 3"=1'-0"



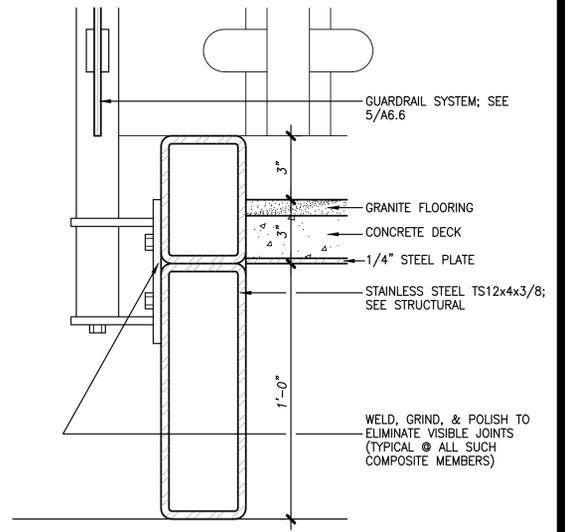
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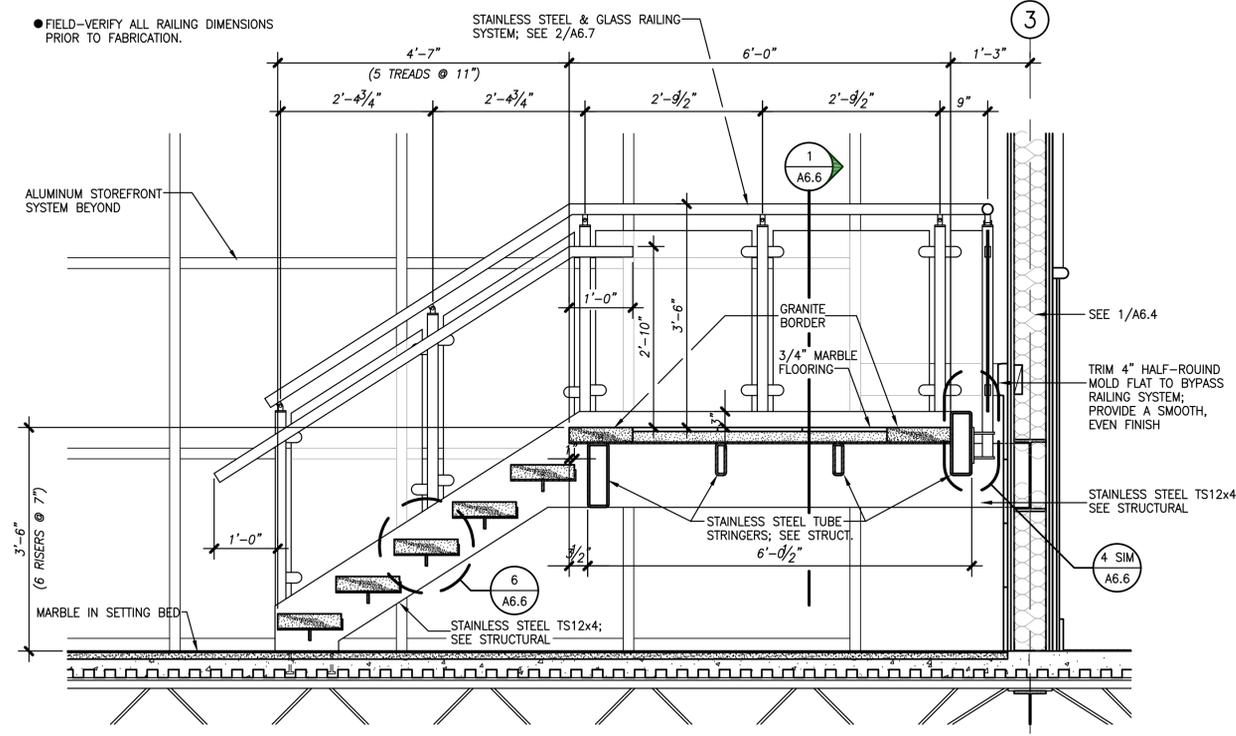
1 MONUMENTAL STAIR
3/4"=1'-0"



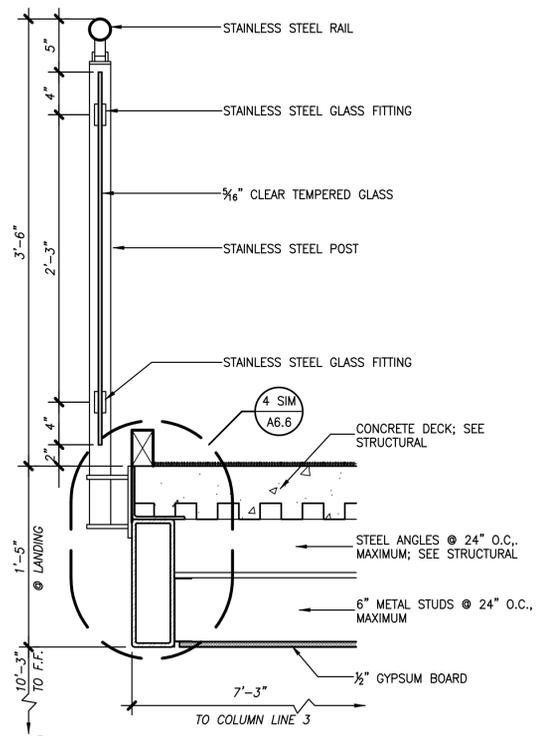
3 MONUMENTAL STAIR
SECOND FLOOR LANDING
3/4"=1'-0"



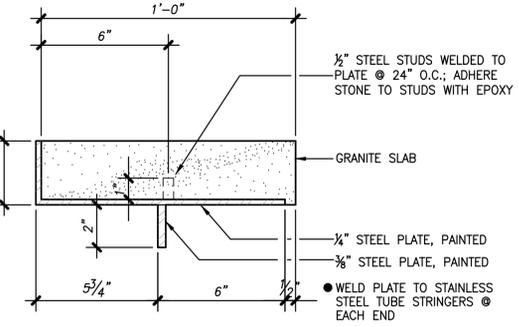
4 EDGE OF LANDING
3"=1'-0"



2 MONUMENTAL STAIR
3/4"=1'-0"

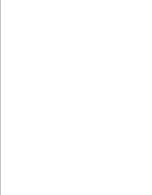


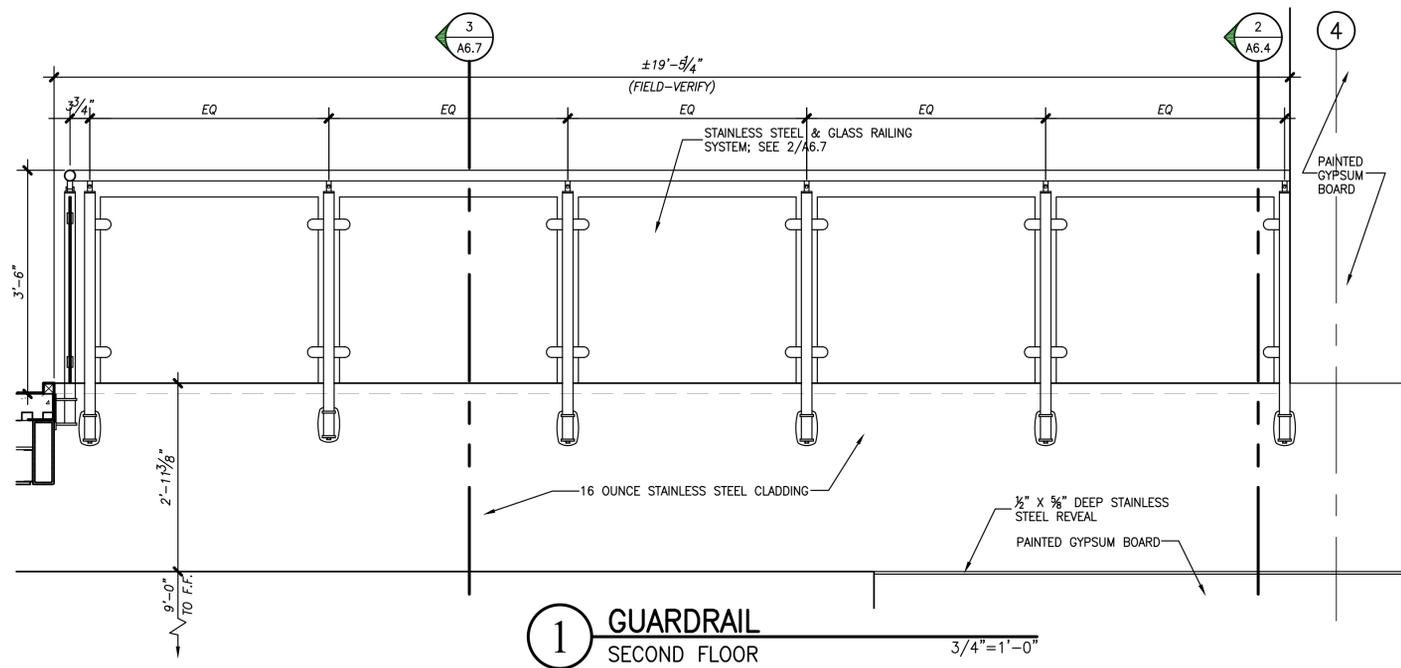
5 GUARDRAIL @ LANDING
1 1/2"=1'-0"



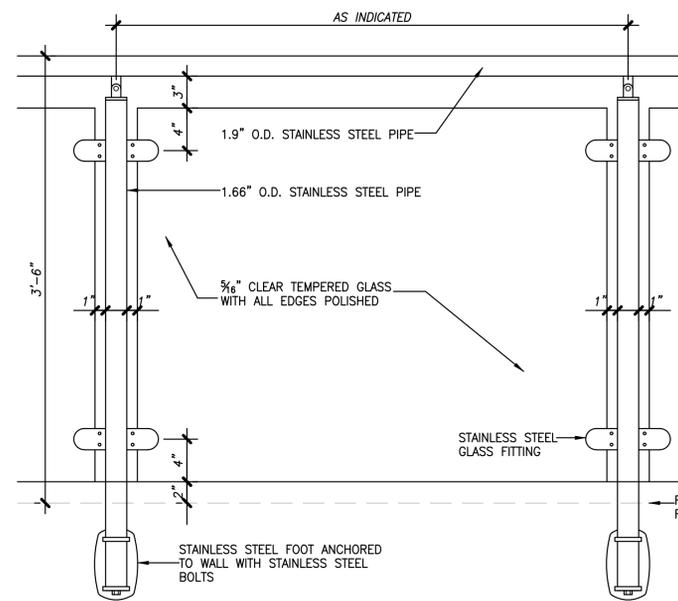
6 MONUMENTAL STAIR TREAD
3"=1'-0"

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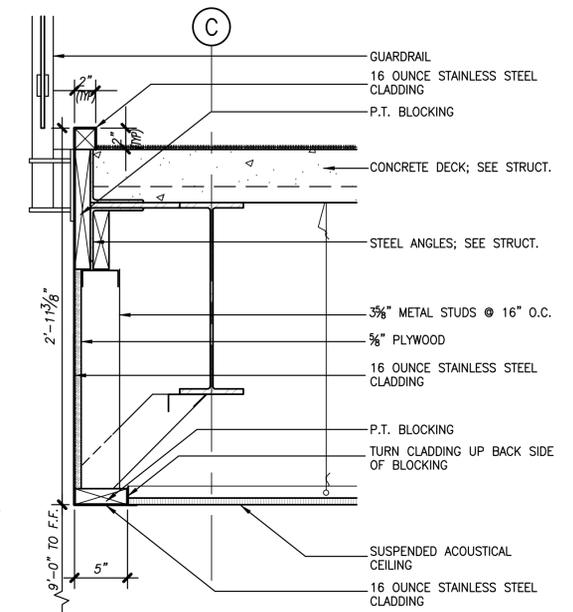




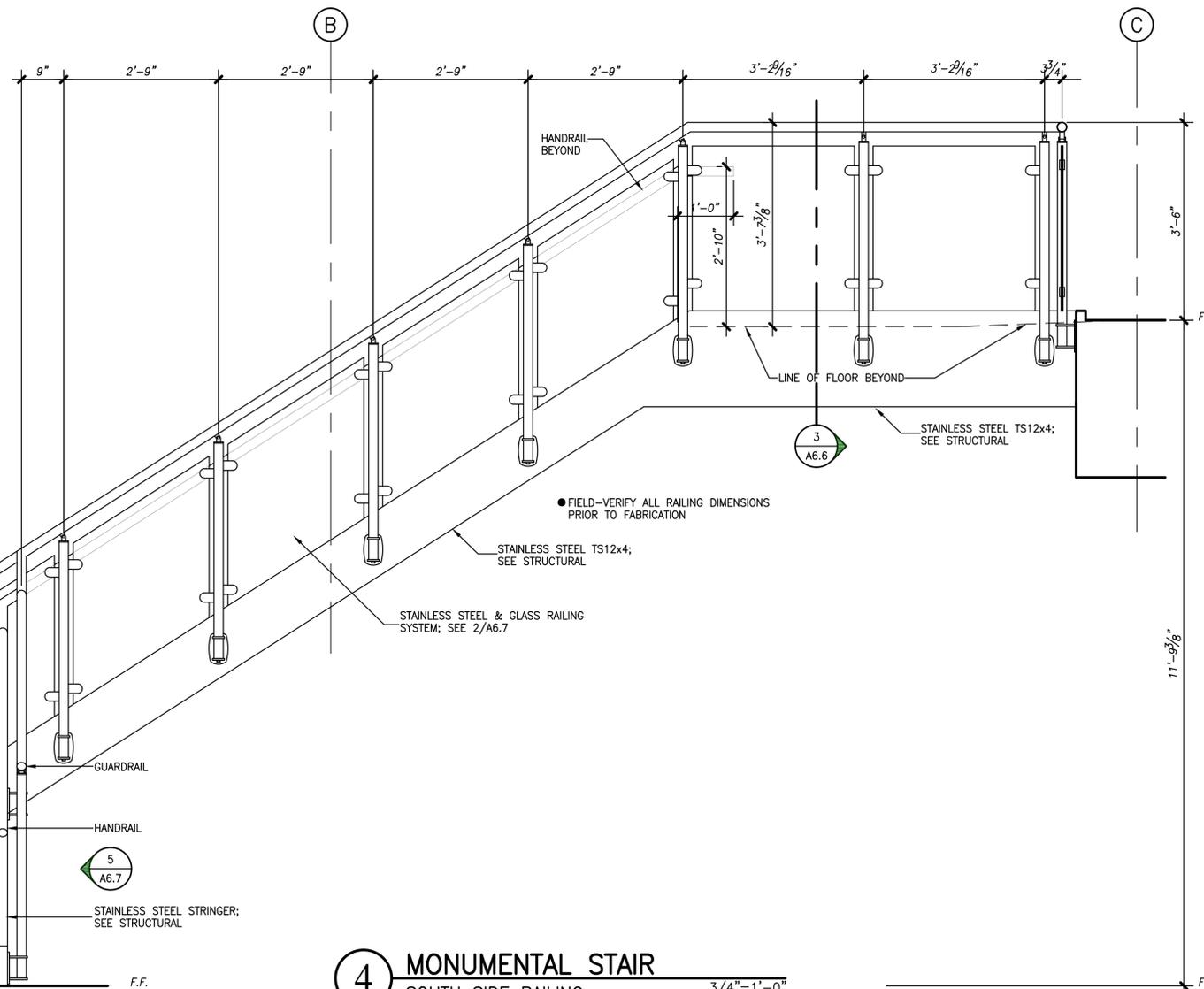
1 GUARDRAIL
SECOND FLOOR
3/4"=1'-0"



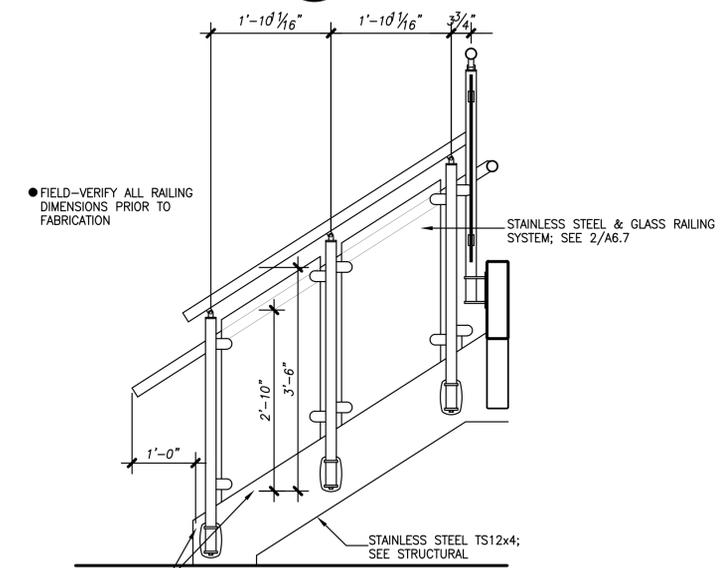
2 TYPICAL GUARDRAIL SEGMENT
1 1/2"=1'-0"



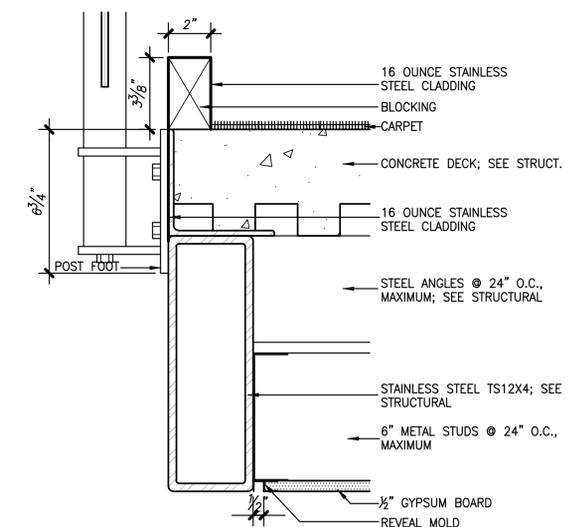
3 STAINLESS STEEL CLADDING
FASCIA @ BALCONY
1 1/2"=1'-0"



4 MONUMENTAL STAIR
SOUTH SIDE RAILING
3/4"=1'-0"

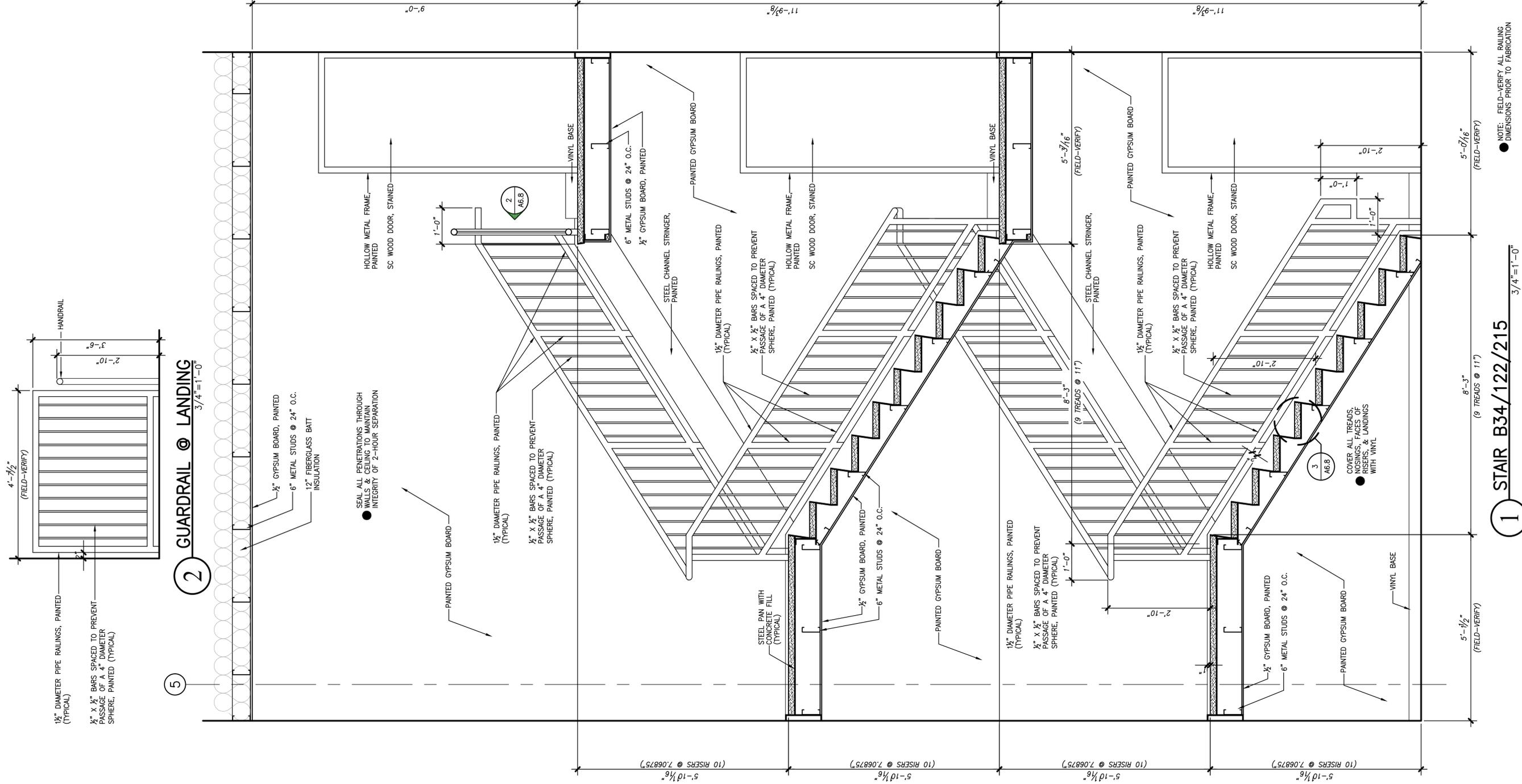


5 MONUMENTAL STAIR
EAST SIDE RAILING
3/4"=1'-0"



6 GUARDRAIL CONNECTION
3"=1'-0"

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① STAIR B34/122/215 3/4"=1'-0"

● NOTE: FIELD-VERIFY ALL RAILING DIMENSIONS PRIOR TO FABRICATION

DATE: 4/15/2025
 PROJECT # 2102
 DRAWN BY DAVIS
 CHECKED BY DAVIS

STAIR

A6.8

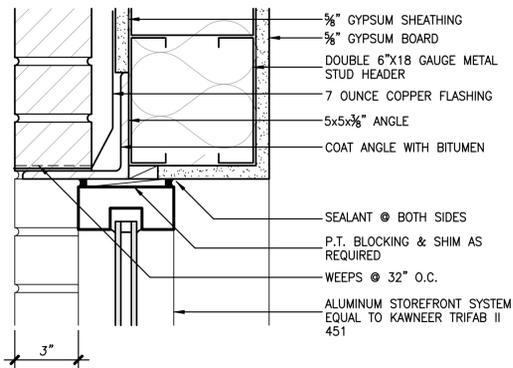
HEFLIN POLICE STATION

850 ROSS STREET
 HEFLIN, ALABAMA

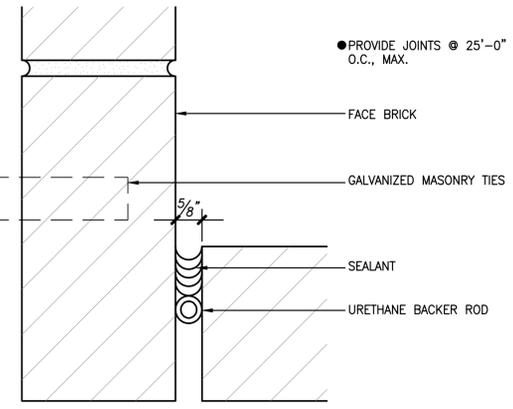


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 205.444-1112 www.BarryDavisArchitects.com

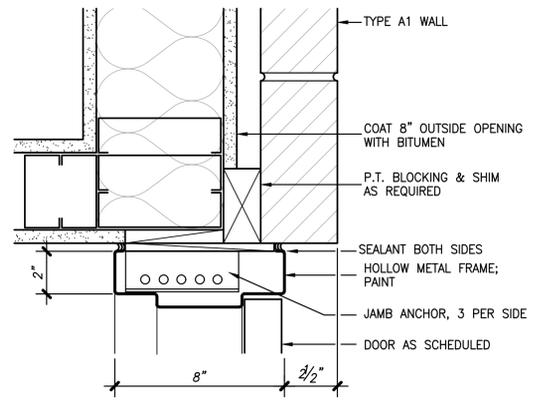
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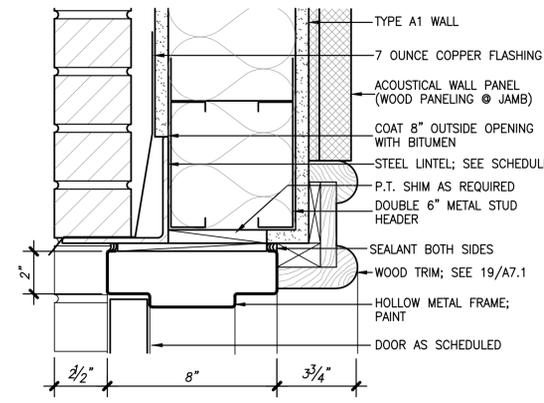
1 STOREFRONT HEAD
TYPICAL @ BREAK ROOMS 3"=1'-0"



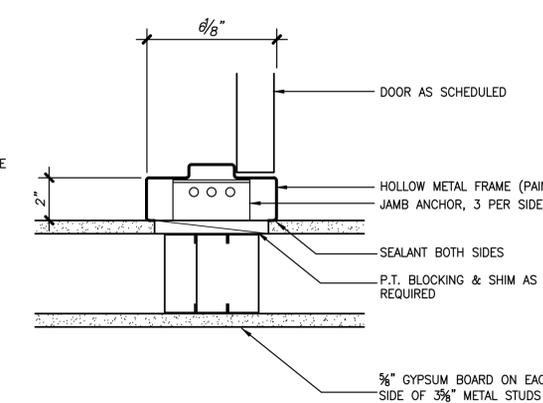
2 BRICK CONTROL JOINT
HALF SIZE



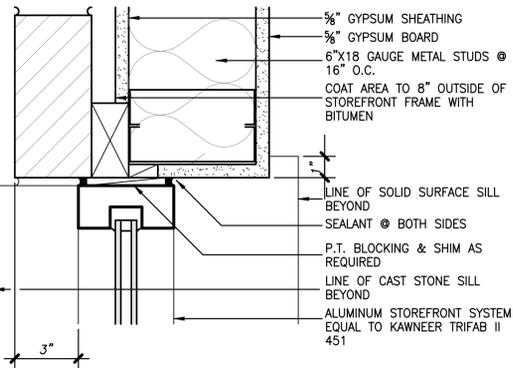
3 DOOR JAMB 3"=1'-0"



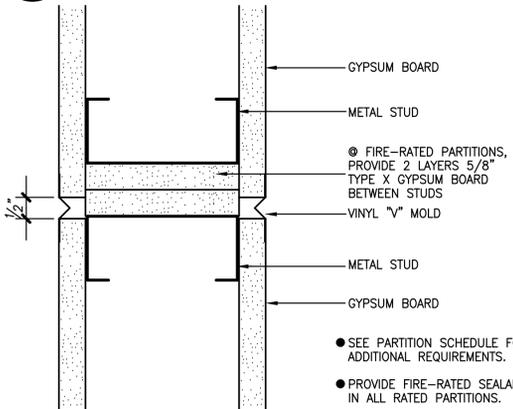
4 DOOR HEAD (JAMB SIMILAR) 3"=1'-0"



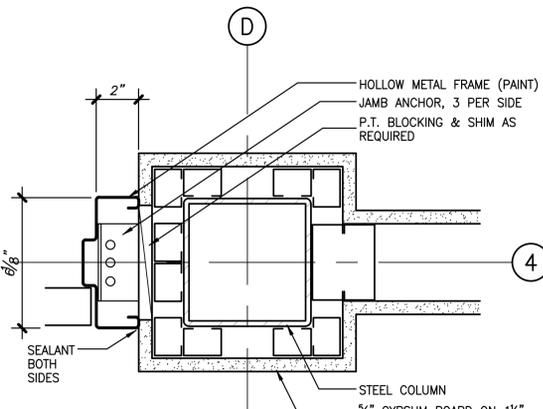
5 DOOR JAMB 3"=1'-0"



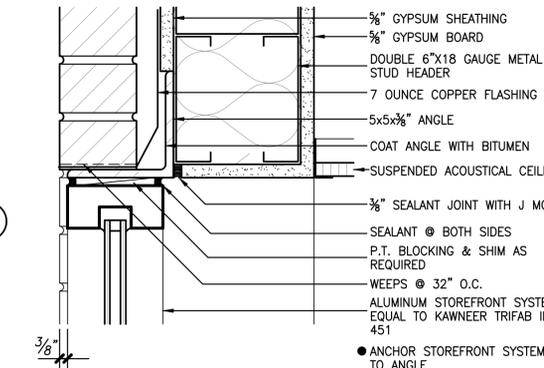
6 STOREFRONT JAMB
TYPICAL @ BREAK ROOMS 3"=1'-0"



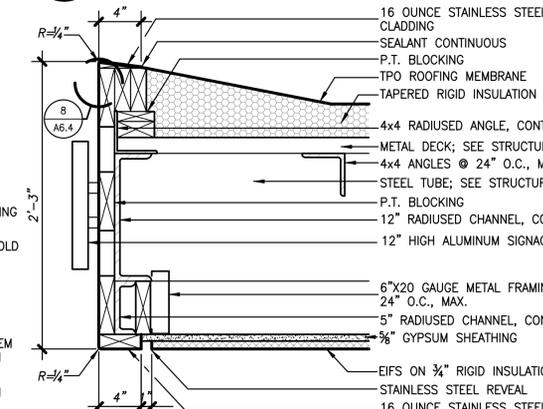
7 GYP. BD. CONTROL JOINT
HALF SIZE



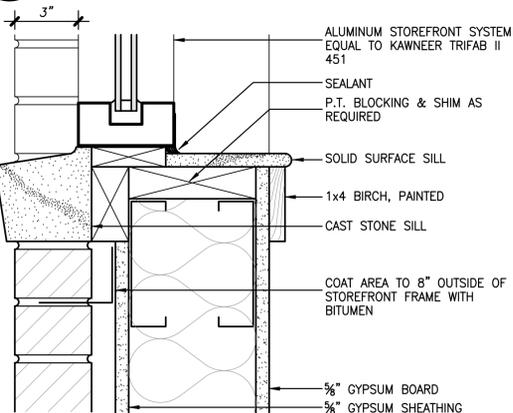
8 DOOR JAMB 3"=1'-0"



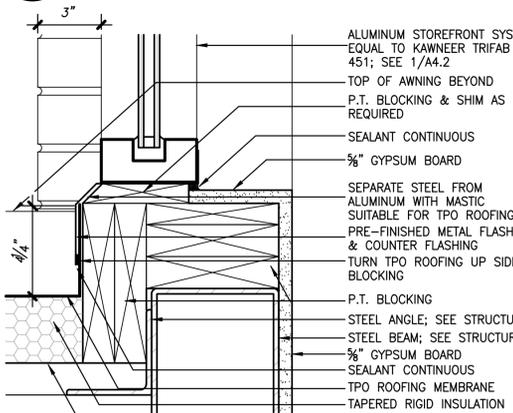
9 STOREFRONT HEAD
@ MEETING ROOM 3"=1'-0"



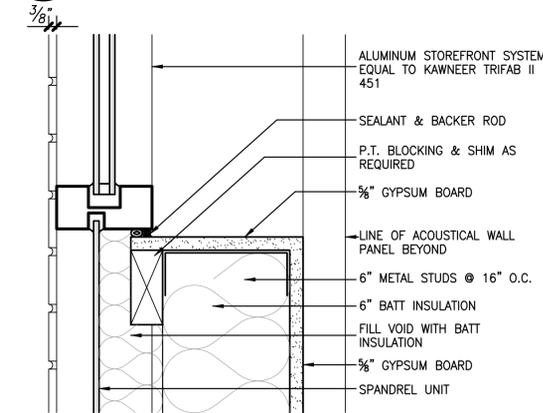
10 AWNING FASCIA
MAIN ENTRANCE 1 1/2"=1'-0"



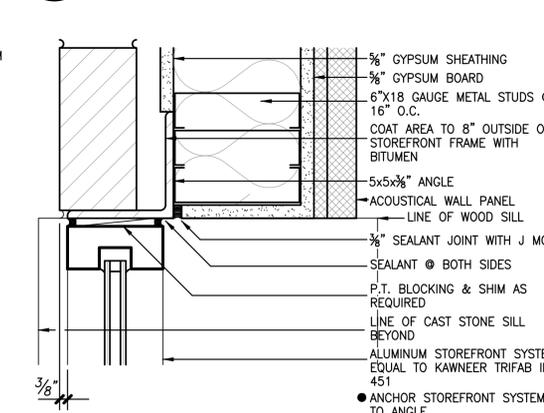
11 STOREFRONT SILL
TYPICAL @ BREAK ROOMS 3"=1'-0"



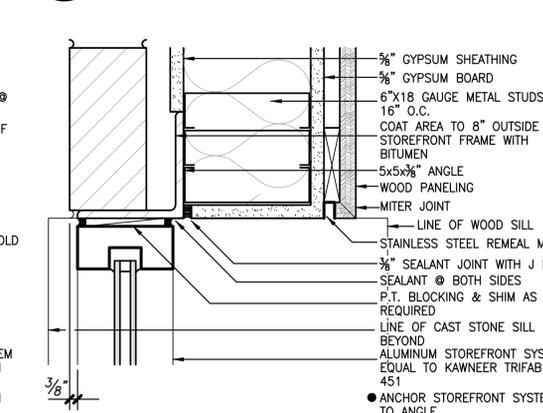
12 STOREFRONT SILL
@ AWNING ROOF 3"=1'-0"



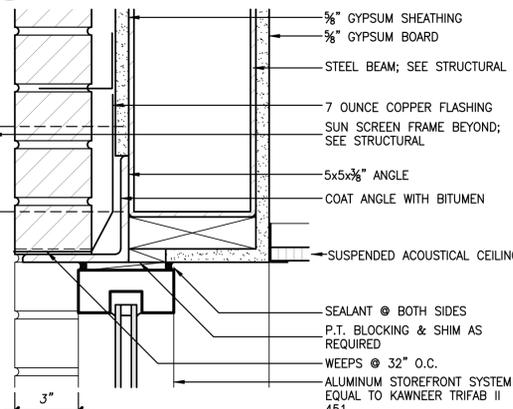
13 STOREFRONT MULLION
@ SPANDREL UNIT 3"=1'-0"



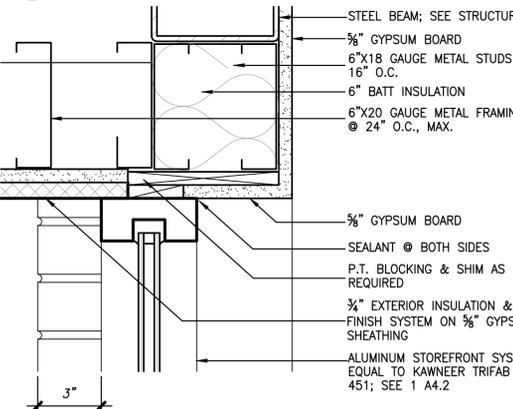
14 STOREFRONT JAMB
@ ACOUSTICAL PANEL 3"=1'-0"



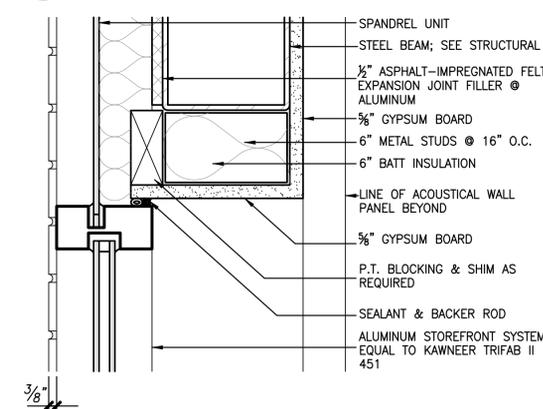
15 STOREFRONT JAMB
MEETING ROOM @ WOOD PANELING 3"=1'-0"



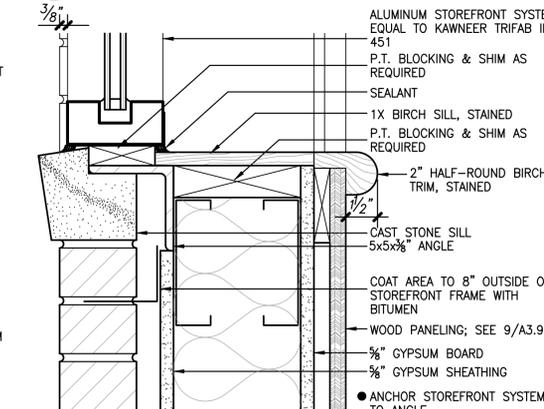
16 STOREFRONT HEAD (JAMB SIM)
@ LOBBY 3"=1'-0"



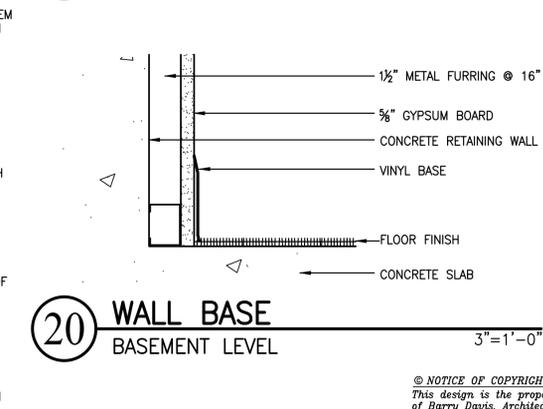
17 STOREFRONT HEAD
@ AWNING SOFFIT 3"=1'-0"



18 STOREFRONT MULLION
@ SPANDREL UNIT 3"=1'-0"



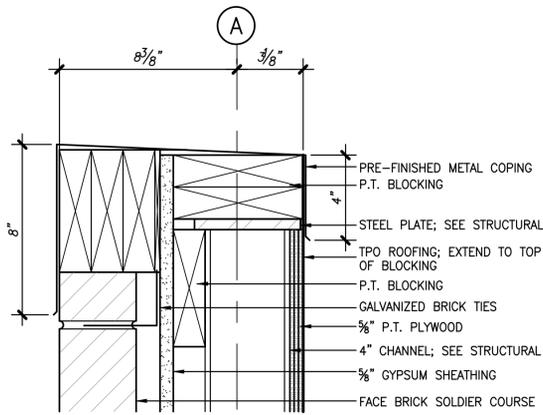
19 STOREFRONT SILL
@ MEETING ROOM 3"=1'-0"



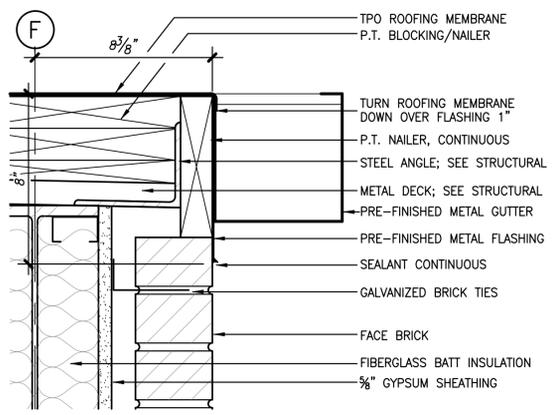
20 WALL BASE
BASEMENT LEVEL 3"=1'-0"

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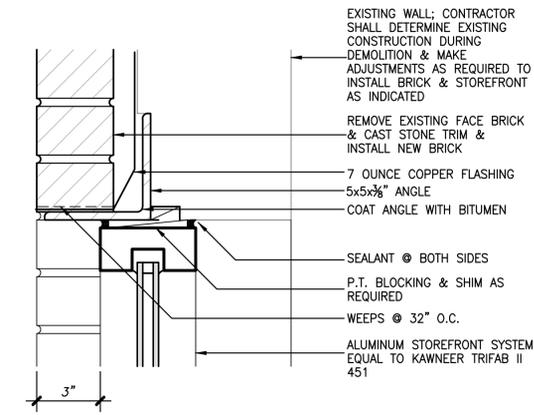




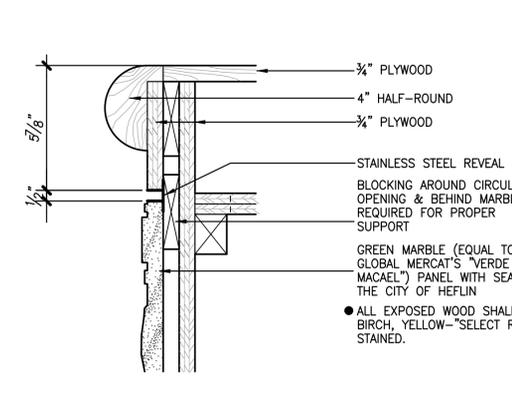
1 PARAPET COPING
WEST WALL 3"=1'-0"



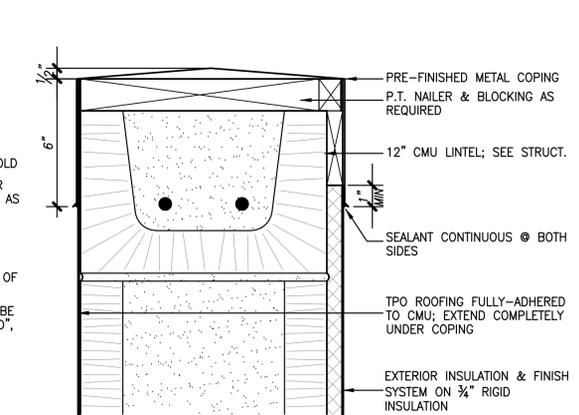
2 LOW POINT OF ROOF
EAST WALL 3"=1'-0"



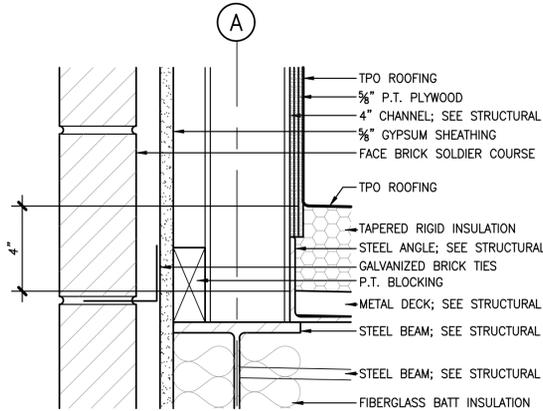
3 STOREFRONT HEAD
TYPICAL @ EXISTING BUILDING 3"=1'-0"



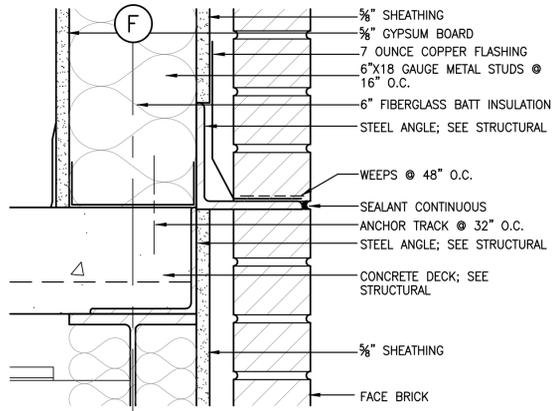
4 SEAL @ DAIS 3"=1'-0"



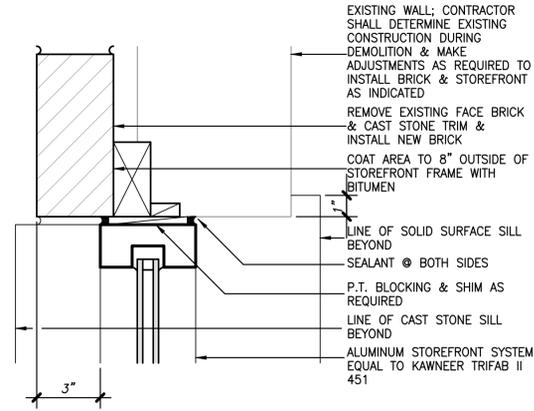
5 FIRE WALL COPING 3"=1'-0"



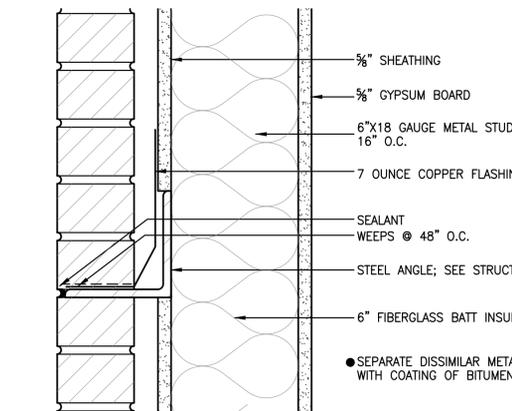
6 PARAPET BASE
WEST WALL 3"=1'-0"



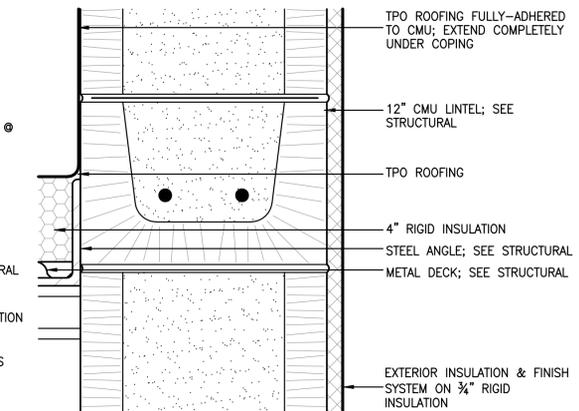
7 FLOOR @ EXTERIOR WALL
EAST WALL 3"=1'-0"



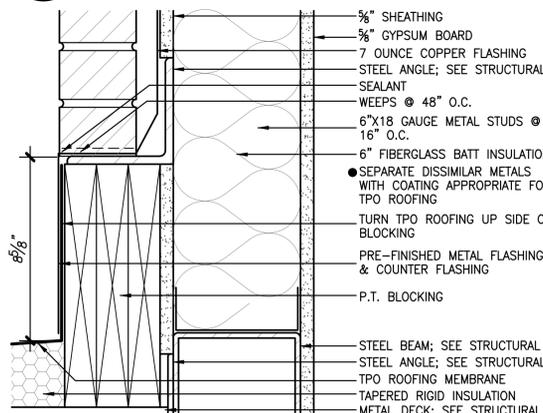
8 STOREFRONT JAMB
TYPICAL @ EXISTING BUILDING 3"=1'-0"



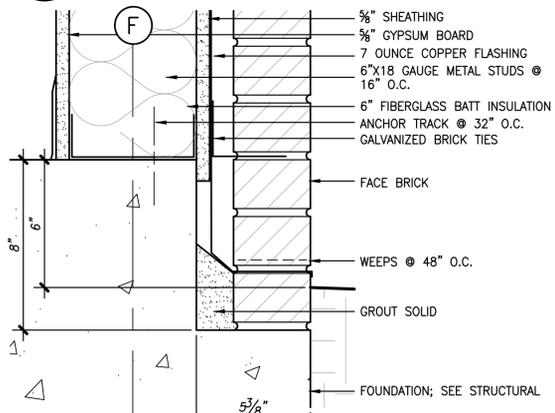
9 MASONRY RELIEF ANGLE 3"=1'-0"



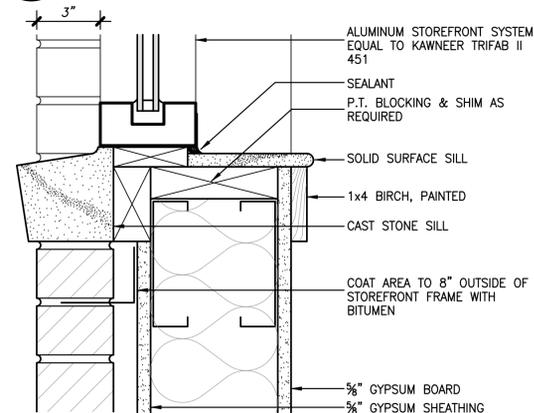
10 ROOF RAKE @ FIRE WALL 3"=1'-0"



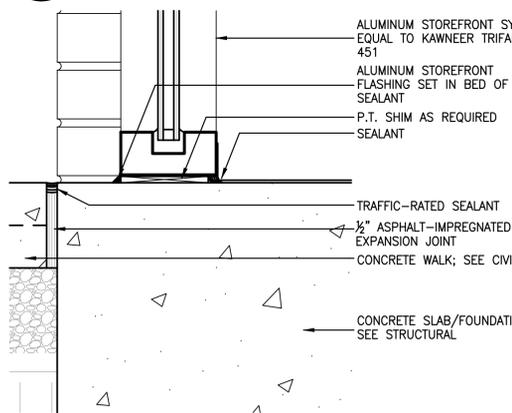
11 AWNING ROOF @ WALL 3"=1'-0"



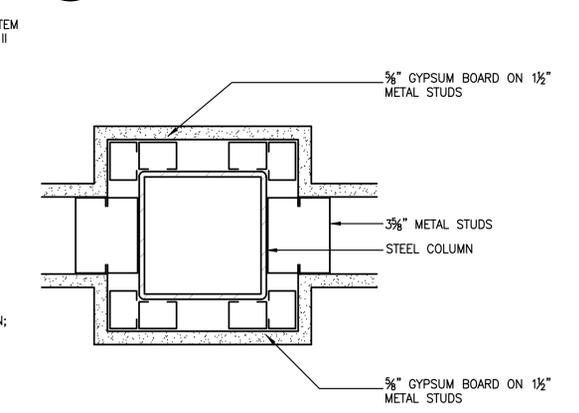
12 WALL BASE
EAST WALL 3"=1'-0"



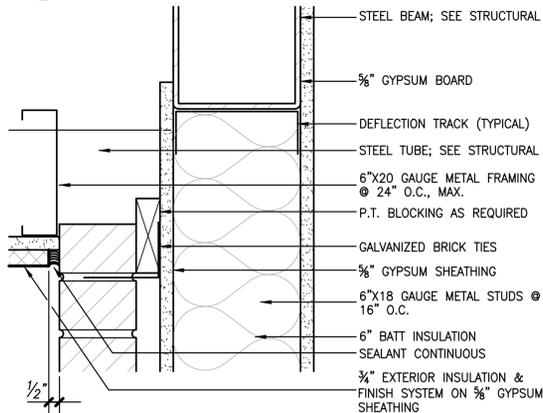
13 STOREFRONT SILL
TYPICAL @ EXISTING BUILDING 3"=1'-0"



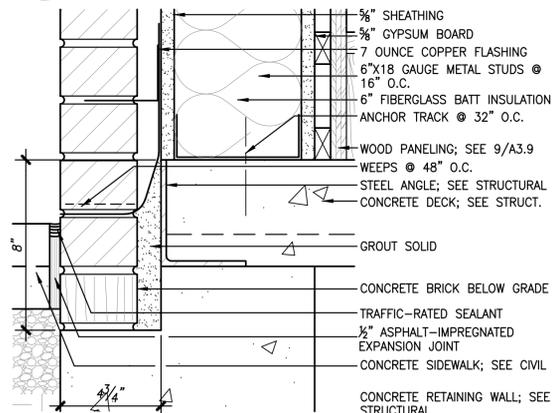
14 STOREFRONT SILL
@ POLICE STATION LOBBY 3"=1'-0"



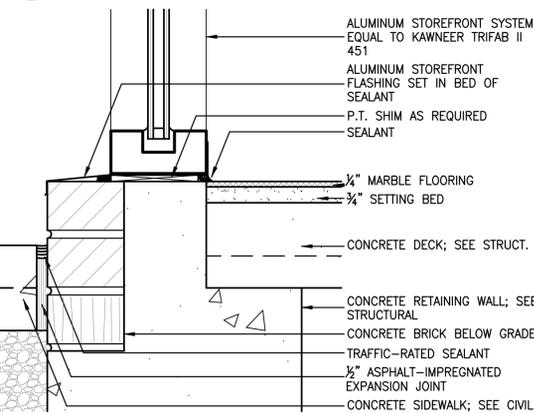
15 COLUMN COVER 3"=1'-0"



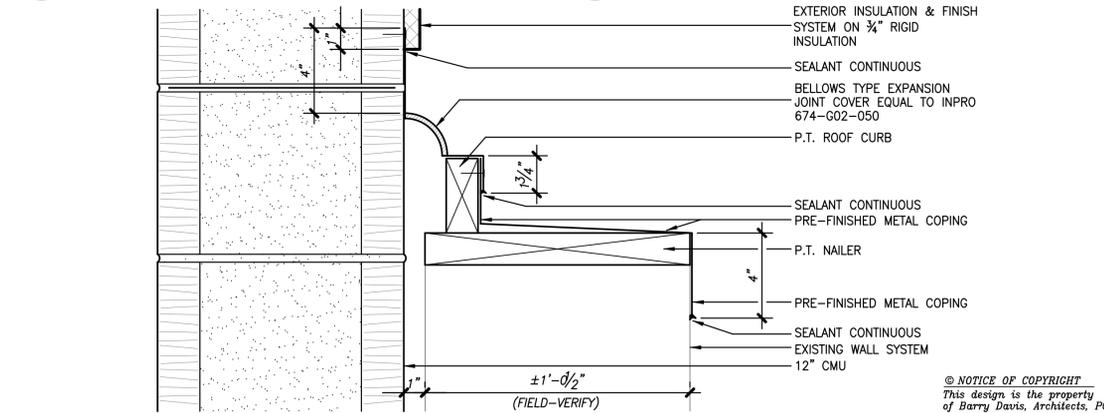
16 AWNING SOFFIT @ WALL 3"=1'-0"



17 WALL BASE
WEST WALL 3"=1'-0"



18 STOREFRONT SILL
@ LOBBY 3"=1'-0"



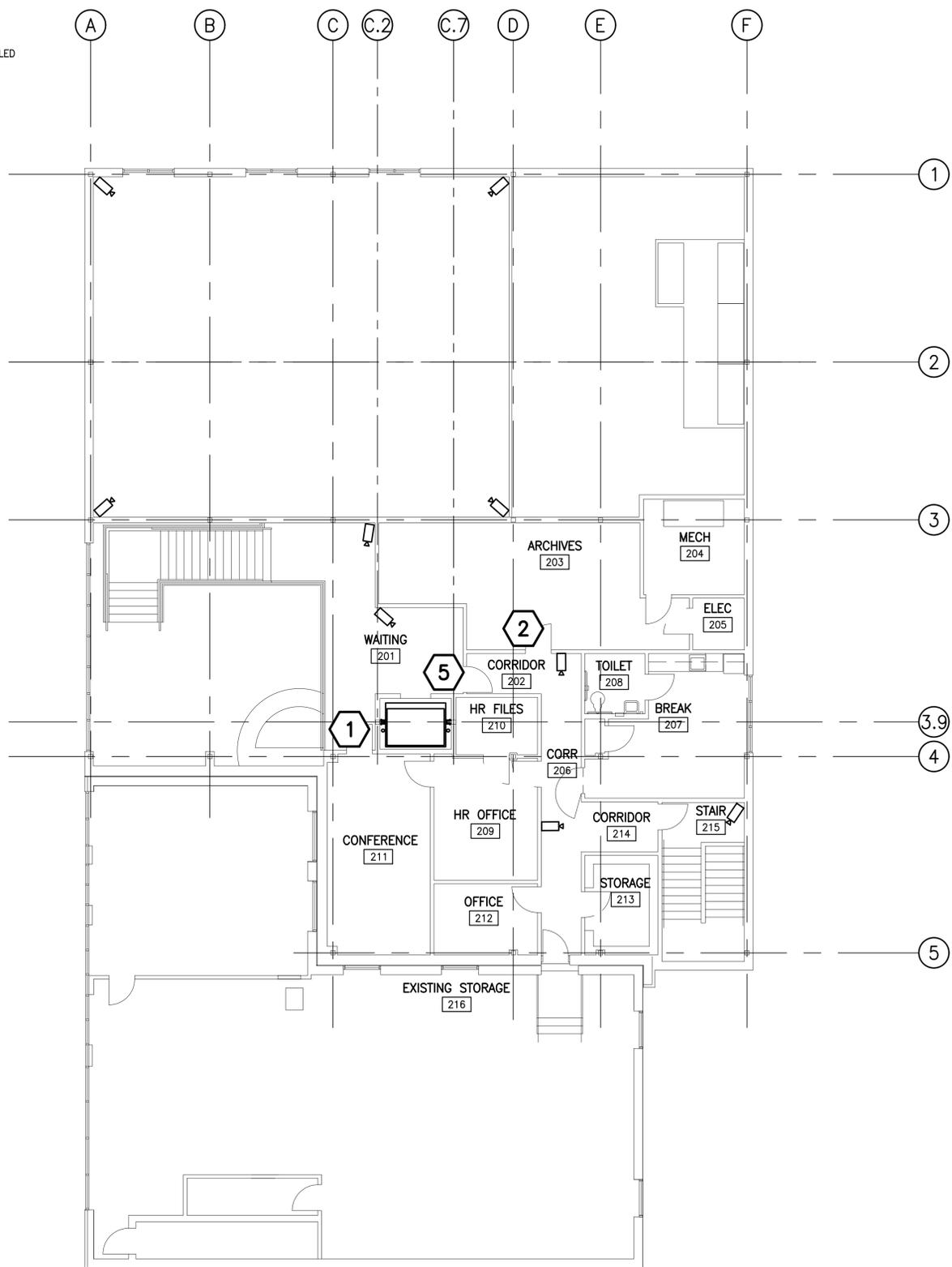
19 ROOF EXPANSION JOINT
3-HOUR FIRE WALL @ EXISTING 3"=1'-0"

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SYMBOL LEGEND

-  CCTV SECURITY CAMERA
-  DOOR WITH ELECTRIC STRIKE CONTROLLED @ RECEPTIONIST 102
-  DOOR WITH KEYPAD-CONTROLLED ENTRY
-  DOOR WITH ELECTRIC STRIKE CONTROLLED @ RECEPTIONIST 102 OR ACTIVATION OF THE FIRE ALARM SYSTEM



SECOND SECURITY PLAN

1/8"=1'-0"

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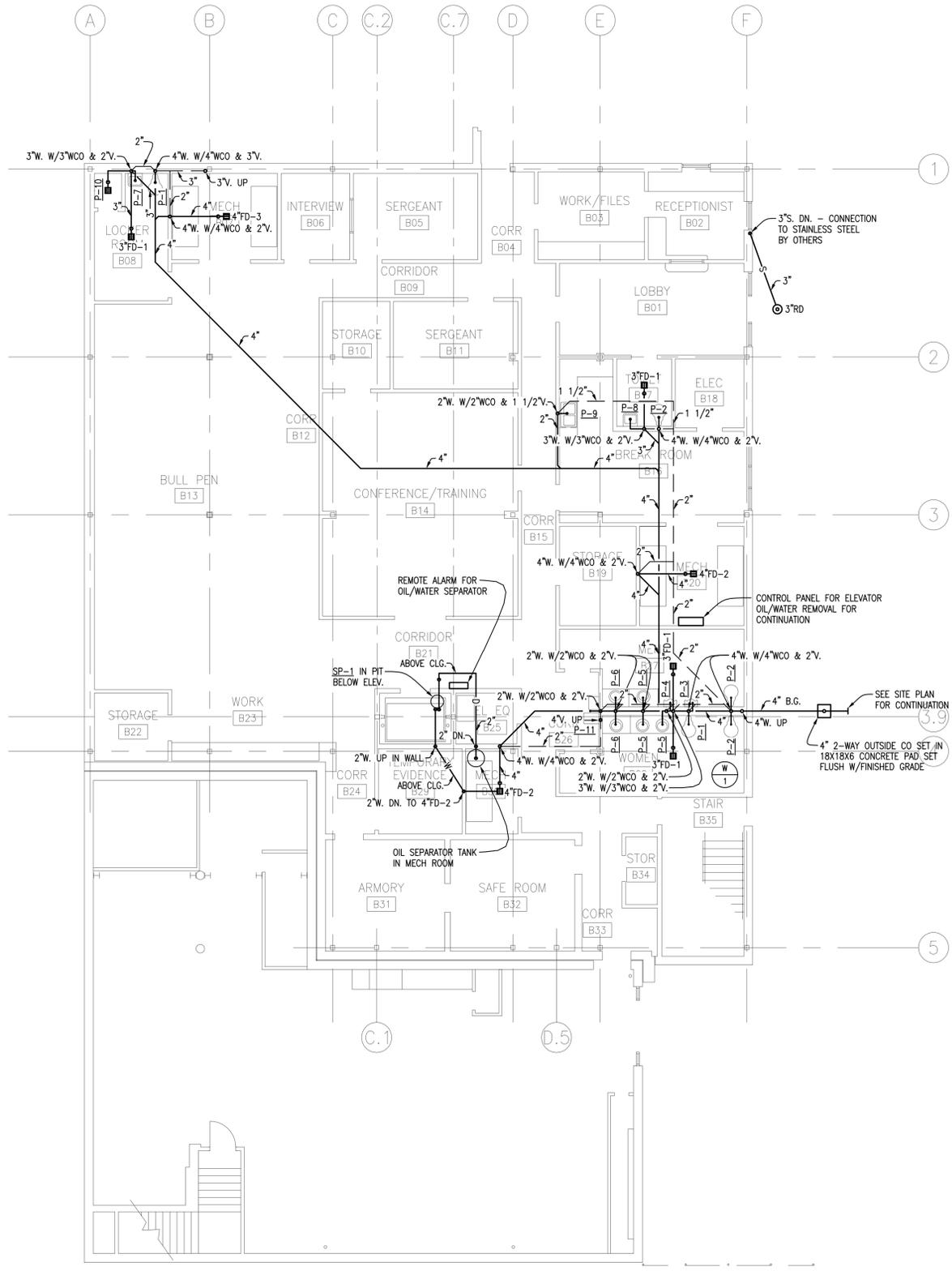
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HEFLIN POLICE STATION
 850 ROSS STREET
 HEFLIN, ALABAMA

REVISIONS
 DATE: 4/15/2025
 PROJECT # 2102
 DRAWN BY DAVIS
 CHECKED BY DAVIS

2nd FLOOR
SECURITY PLAN
A9.3
 66 of 97



PLUMBING BASEMENT FLOOR PLAN WASTE & VENT 1/8"=1'-0"

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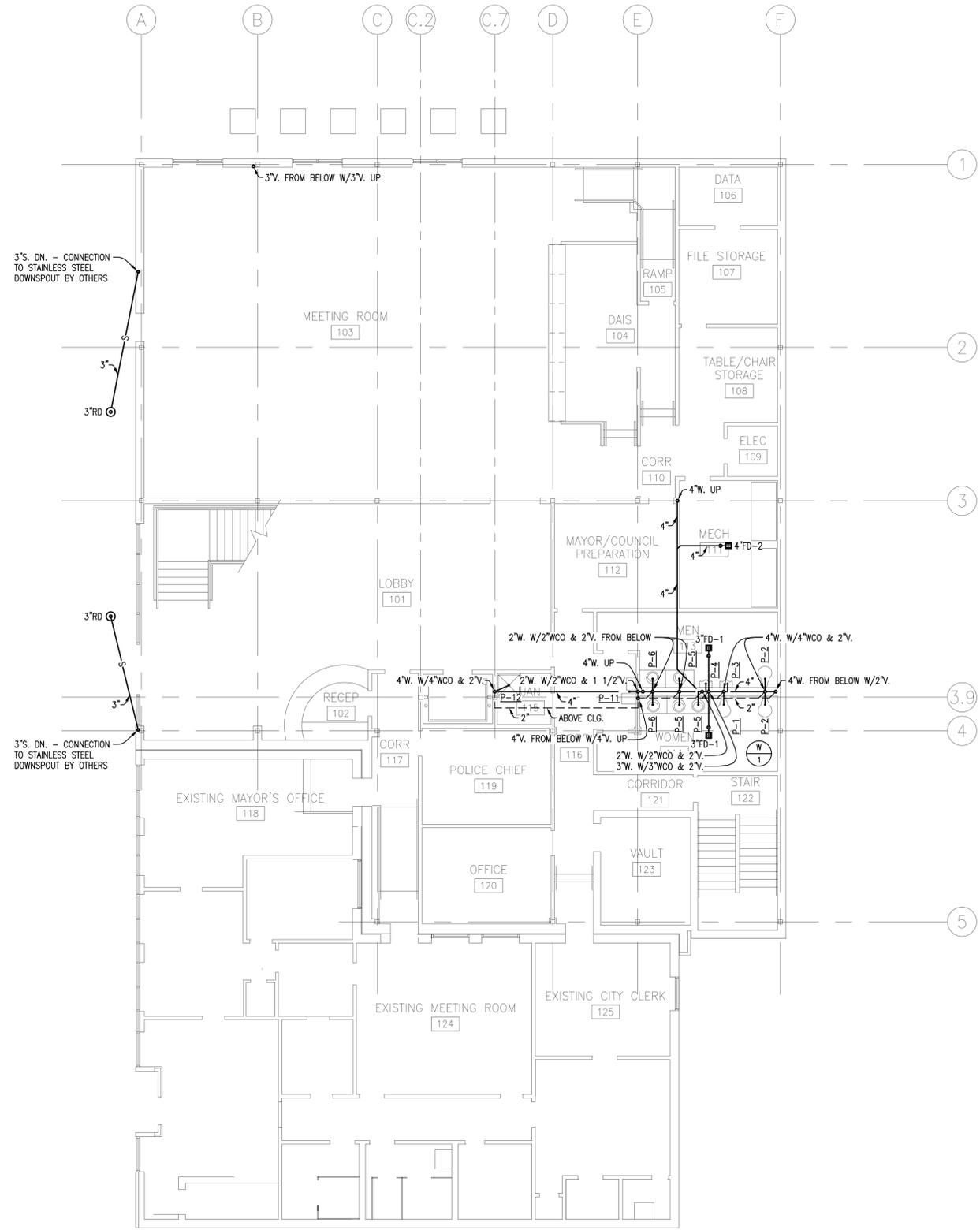
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P1.1

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PLUMBING FIRST FLOOR PLAN WASTE & VENT

1/8"=1'-0"

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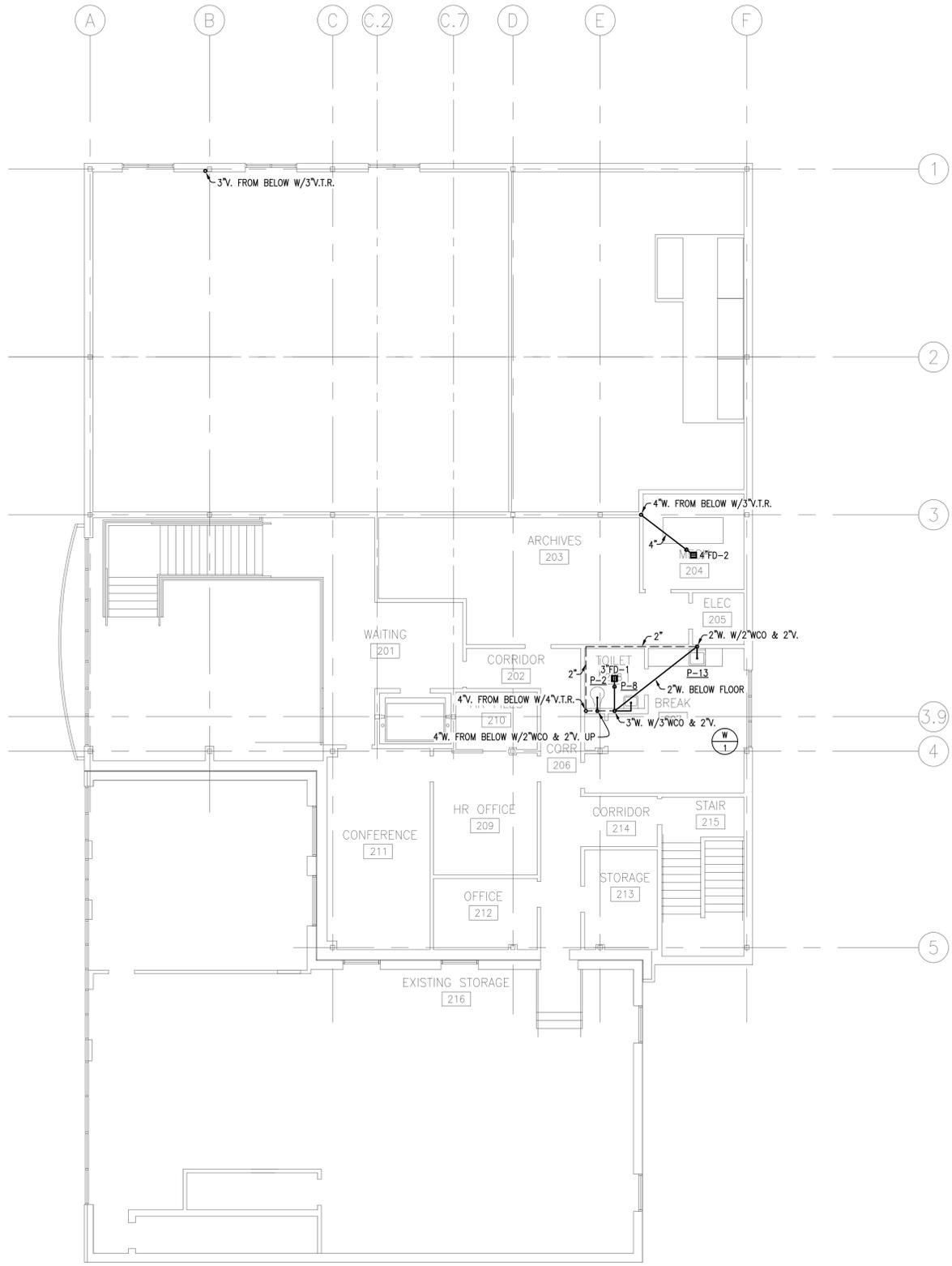
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**1st FLOOR
PLBG PLAN**
P1.2
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PLUMBING SECOND FLOOR PLAN WASTE & VENT

1/8"=1'-0"

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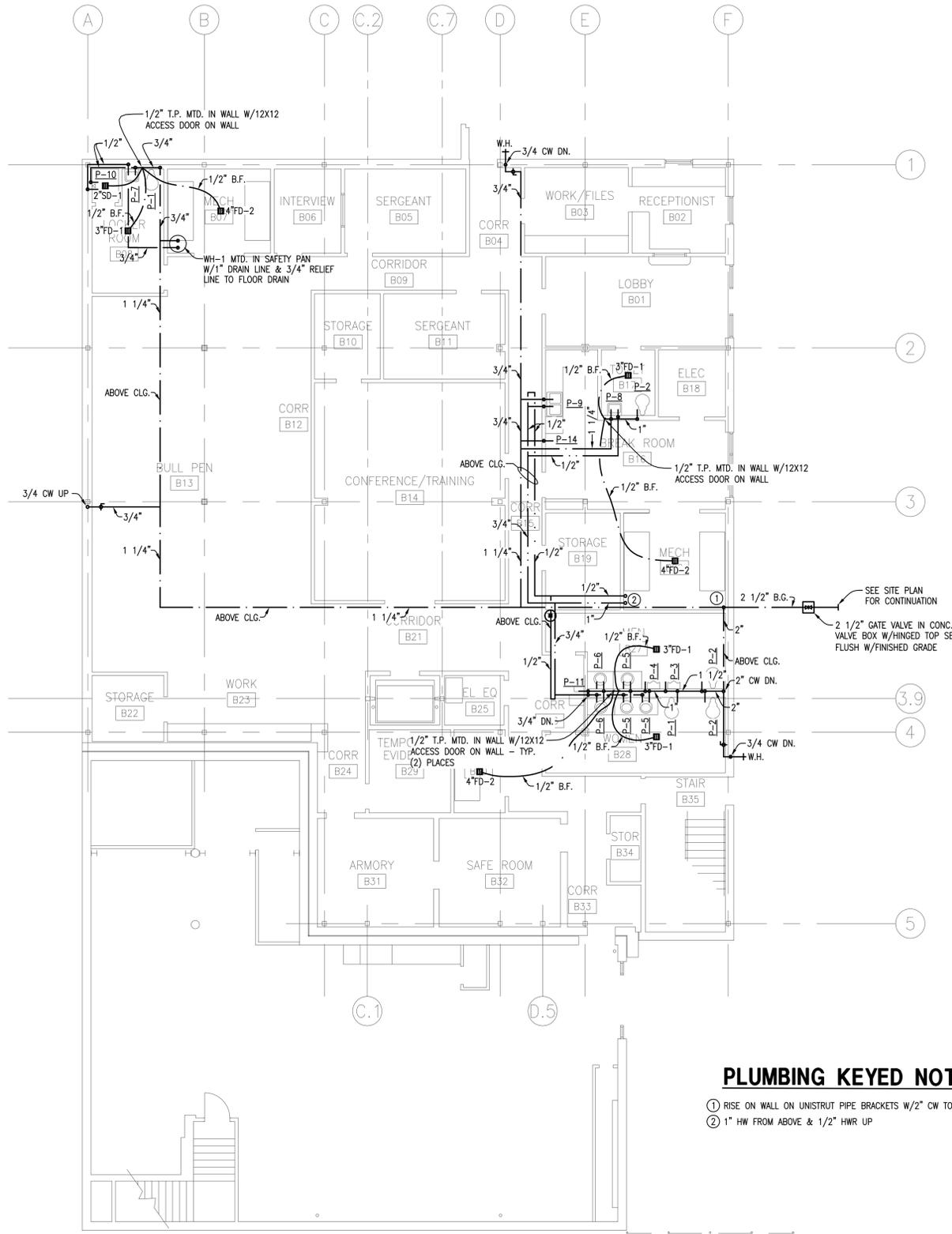
HEFLIN POLICE STATION
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2nd FLOOR
PLBG PLAN

P1.3



PLUMBING KEYED NOTES:

- ① RISE ON WALL ON UNISTRUT PIPE BRACKETS W/2" CW TO 1ST FLOOR.
- ② 1" HW FROM ABOVE & 1/2" HWR UP



PLUMBING BASEMENT FLOOR PLAN WATER 1/8"=1'-0"

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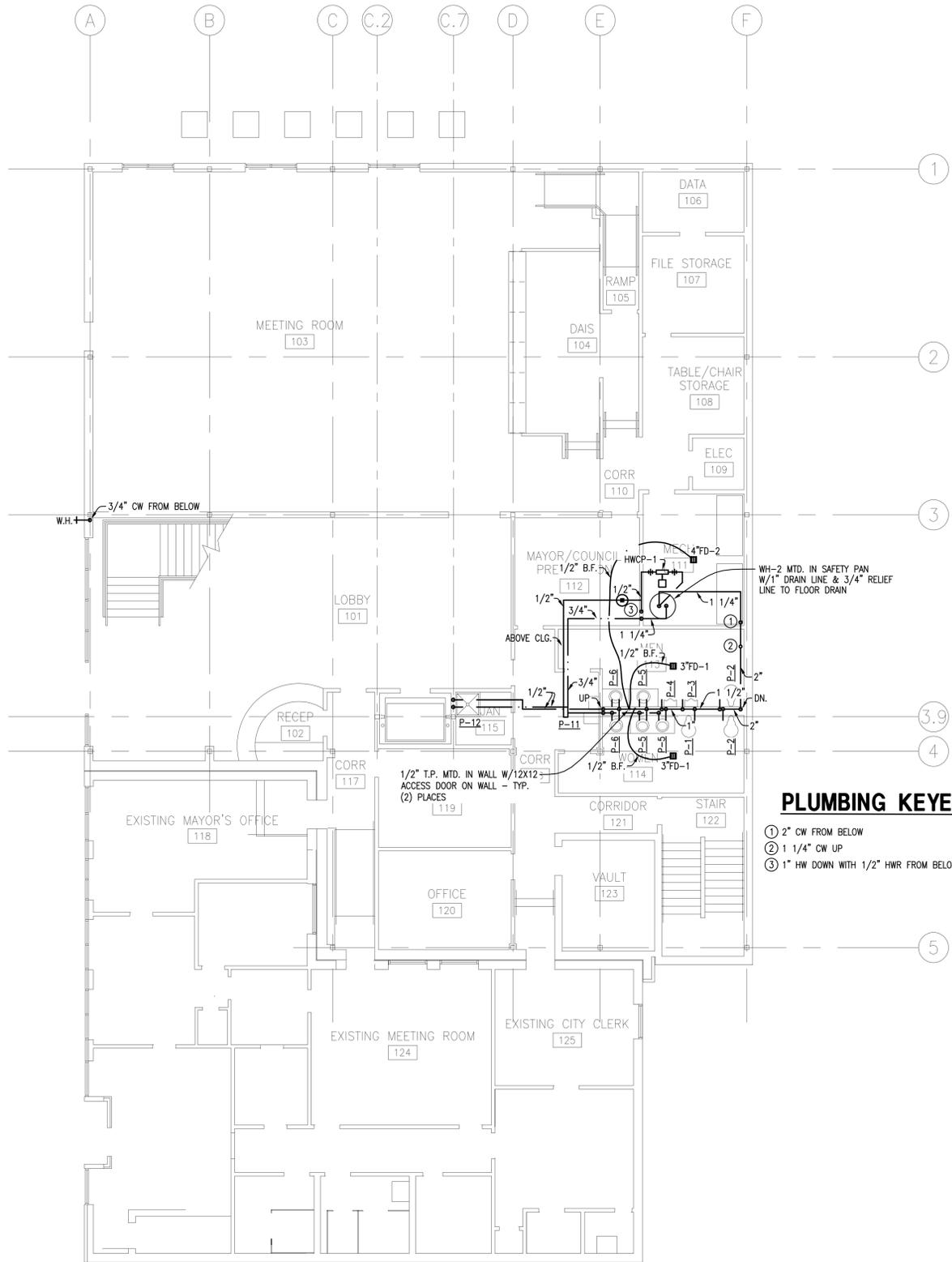
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HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

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DATE: 4/15/2025
PROJECT # 2102
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BASEMENT PLBG PLAN
P2.1
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PLUMBING KEYED NOTES:

- ① 2" CW FROM BELOW
- ② 1 1/4" CW UP
- ③ 1" HW DOWN WITH 1/2" HWR FROM BELOW



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

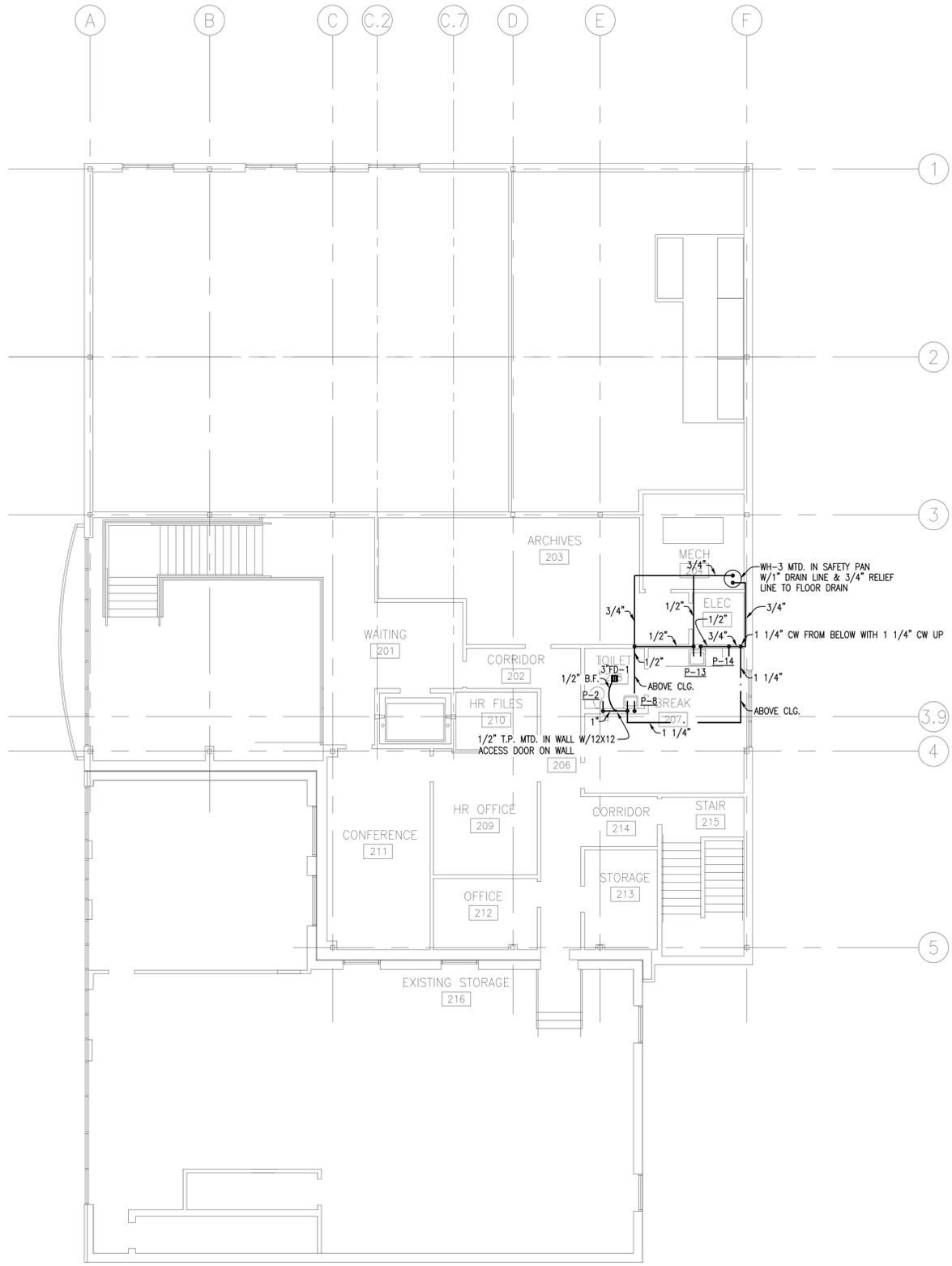
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P2.2
 1st FLOOR
 PLBG PLAN
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PLUMBING SECOND FLOOR PLAN WATER 1/8"=1'-0"

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HEFLIN POLICE STATION
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2nd FLOOR PLBG PLAN

P2.3

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PLUMBING LEGEND

	WASTE PIPING	W.	WASTE
	STORM PIPING	V.	VENT
	VENT PIPING	HW	HOT WATER
	COLD WATER PIPING	CW	COLD WATER
	HOT WATER PIPING	HWR	HOT WATER RETURN
	HOT WATER RETURN PIPING	B.G.	BELOW FLOOR
	WALL HYDRANT	V.T.R.	VENT THRU ROOF
	FLOOR DRAIN	T.P.	TRAP PRIMER
	ROOF DRAIN	CLG.	CEILING
	BALANCING VALVE	WCO	WALL CLEANOUT
	BELOW FLOOR	CO	CLEANOUT
	BELOW GRADE		

MINIMUM PIPING INSULATION THICKNESS FOR SERVICE WATER HEATING SYSTEMS

SERVICE HOT WATER TEMPERATURE RANGE	INSULATION THERMAL CONDUCTIVITY		NOMINAL PIPE SIZE (INCHES)				
	CONDUCTIVITY (Btu x in/h x ft ² x °F)	MEAN RATING TEMPERATURE (°F)	LESS THAN 1	1 TO < 1 1/2	1 1/2 TO < 4	4 TO 8	> 8
105°F TO 140°F	0.22 TO 0.28	100	1.0	1.0	1.5	1.5	1.5
> 140°F TO 200°F	0.25 TO 0.29	125	1.0	1.0	2.5	2.0	2.0
> 200°F	0.27 TO 0.30	150	1.5	1.5	2.5	3.0	3.0

SUMP PUMP SCHEDULE

MARK	LOCATION	TYPE	CAPACITY GPM	HEAD FEET	HP	POWER V-PH-CYC	BASIS OF DESIGN LIBERTY PUMPS
SP-1	ELEVATOR	SIMPLEX	50	15	3/4	120-1-60	ELV290-VST

CIRCULATION PUMP SCHEDULE

MARK	DESCRIPTION
HWCP-1	VERTICAL-TYPE PUMP WITH LEAKPROOF, RUSTPROOF TANK, STAINLESS STEEL MOTOR SHAFT, SNAP-ACTION SWITCH, POWER CORD, THERMAL OVERLOAD PROTECTION, CHECK VALVE, AND SAFETY SWITCH. U.L. LISTED. PERFORMANCE: 1.4 GPM AT 9' HEAD. MAX. CUTOFF 13' HEAD. ELECTRICAL: 115 VAC, 60 Hz. EQUAL TO TACO 006e3.

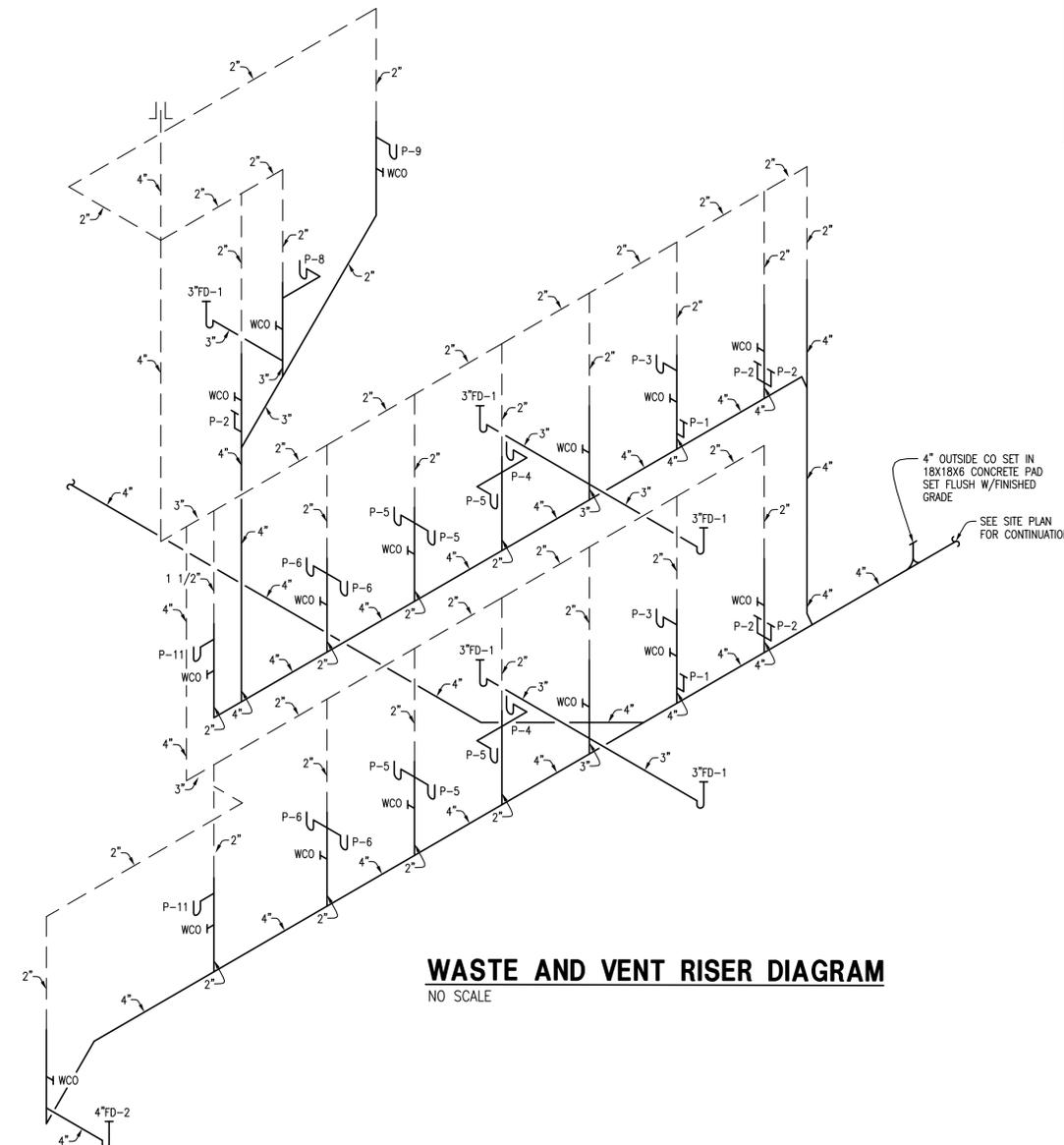
PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE	CW	HW	REMARKS
P-1	WATER CLOSET	4"	1"	----	
P-2	WATER CLOSET	4"	1"	----	HC
P-3	URINAL - WALL HUNG	2"	3/4"	----	
P-4	URINAL - WALL HUNG	2"	3/4"	----	HC
P-5	LAVATORY - COUNTERTOP	1 1/4"	1/2"	1/2"	
P-6	LAVATORY - COUNTERTOP	1 1/4"	1/2"	1/2"	HC
P-7	LAVATORY - WALL HUNG	1 1/4"	1/2"	1/2"	
P-8	LAVATORY - WALL HUNG	1 1/4"	1/2"	1/2"	HC
P-9	SINK - DOUBLE COMPARTMENT	1 1/2"	1/2"	1/2"	
P-10	SHOWER	2"	1/2"	1/2"	
P-11	ELECTRIC WATER COOLER	1 1/4"	1/2"	----	BI-LEVEL
P-12	MOP SINK	3"	1/2"	1/2"	
P-13	SINK - SINGLE COMPARTMENT	1 1/2"	1/2"	1/2"	
P-14	REFRIGERATOR BOX		1/2"		

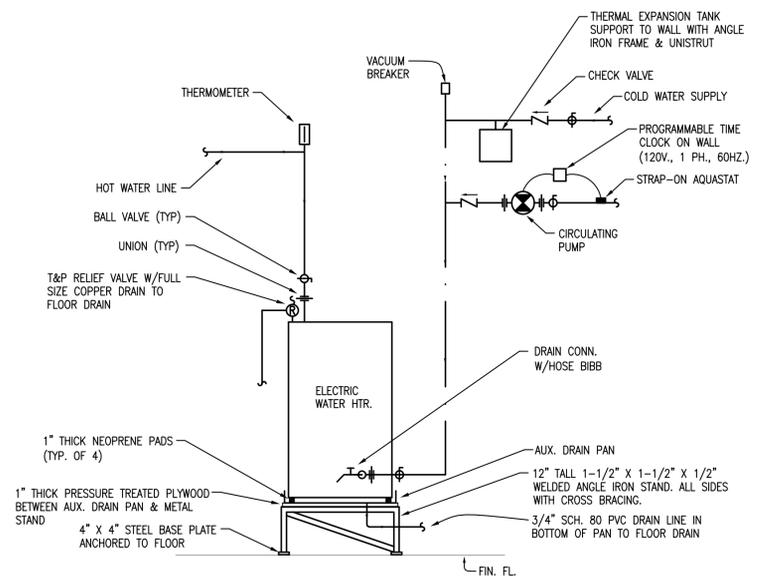
ELECTRIC WATER HEATER SCHEDULE

MARK	STORAGE TANK	ELEMENTS	POWER V-PH-CYC	RECOVERY 100°F ΔT	BASIS OF DESIGN
EWH-1	40 GAL.	4.5 KW	208-1-60	18 GPH	A.O.SMITH DEN-40
EWH-2	50 GAL.	4.5 KW	208-1-60	18 GPH	A.O.SMITH DEN-52
EWH-3	30 GAL.	4.5 KW	208-1-60	18 GPH	A.O.SMITH DEN-30

* NON-SIMULTANEOUS OPERATION



WASTE AND VENT RISER DIAGRAM
NO SCALE



ELECTRIC WATER HEATER DETAIL
NOT TO SCALE

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HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

REVISIONS

DATE: 4/15/2025

PROJECT # 2102

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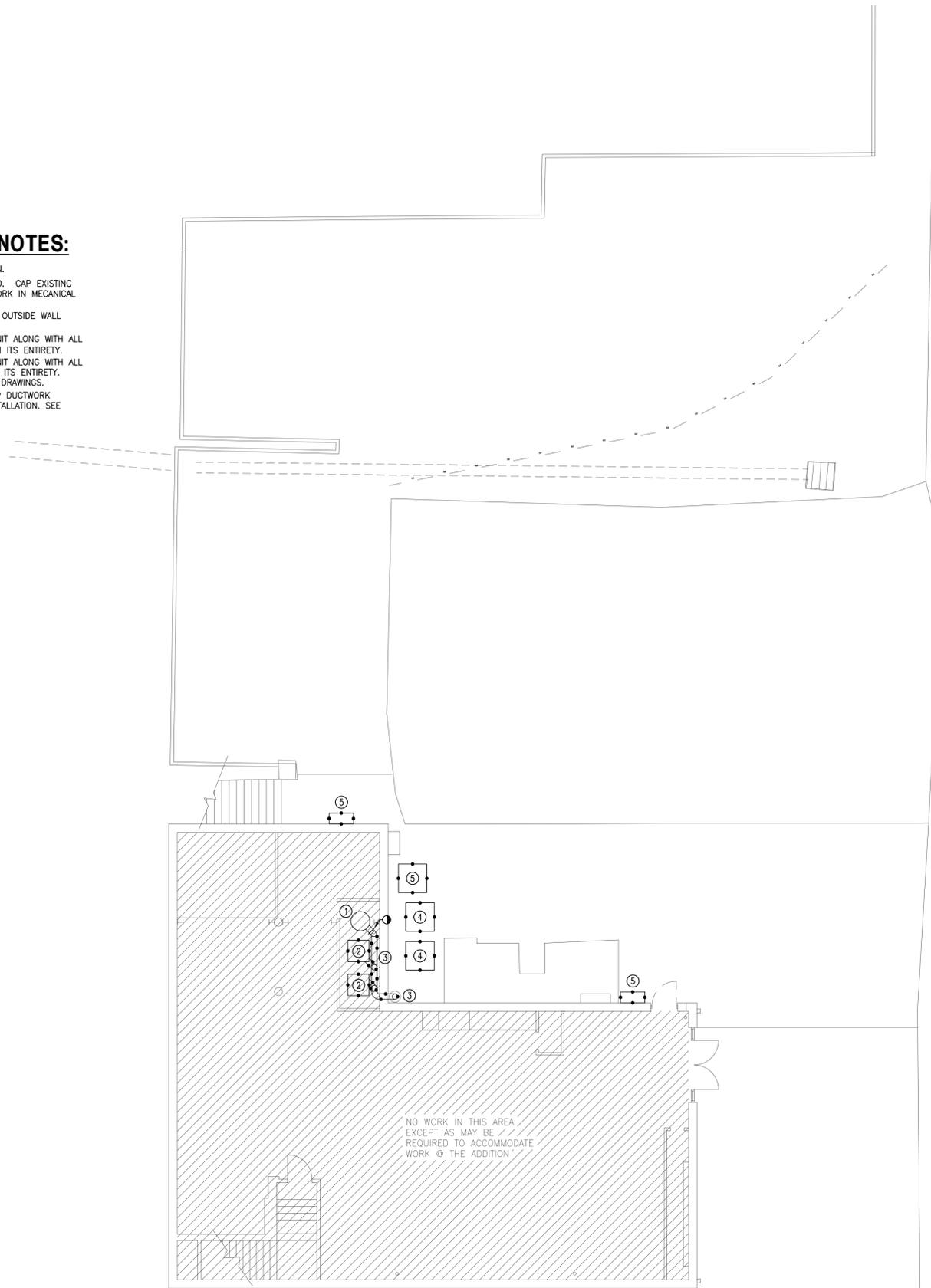
PLBG RISER SCHEDULES

P3.1

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HVAC DEMOLITION NOTES:

- ① EXISTING GAS-FIRED WATER HEATER TO REMAIN.
- ② EXISTING GAS-FIRED FURNACE TO BE REMOVED. CAP EXISTING GAS PIPING AND SUPPLY AND RETURN DUCTWORK IN MECHANICAL ROOM AS REQUIRED.
- ③ REMOVE EXISTING FLUE VENTING ATTACHED TO OUTSIDE WALL IN ITS ENTIRETY.
- ④ REMOVE EXISTING AIR COOLED CONDENSING UNIT ALONG WITH ALL REFRIGERANT PIPING, CONTROL WIRING, ETC. IN ITS ENTIRETY.
- ⑤ REMOVE EXISTING AIR COOLED CONDENSING UNIT ALONG WITH ALL REFRIGERANT PIPING CONTROL WIRING, ETC. IN ITS ENTIRETY. STORE FOR REINSTALLATION. SEE NEW WORK DRAWINGS.
- ⑥ REMOVE EXISTING AIR HANDLING UNIT AND CAP DUCTWORK TEMPORARILY. STORE AIR HANDLER FOR REINSTALLATION. SEE NEW WORK DRAWINGS.



BELL STREET



HVAC BASEMENT FLOOR PLAN DEMOLITION 1/8"=1'-0"

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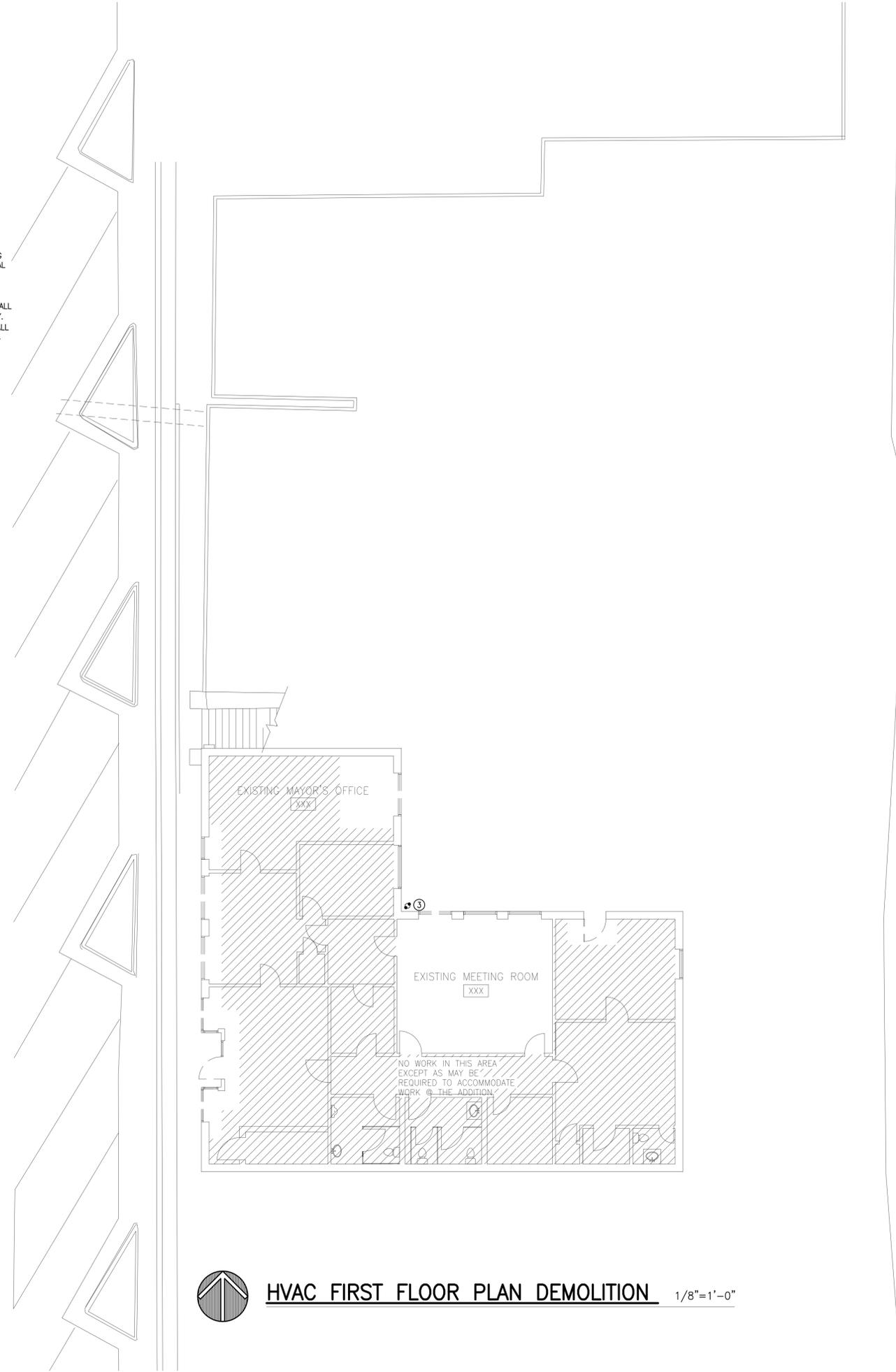
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BASEMENT HVAC DEMO

HVAC DEMOLITION NOTES:

- ① EXISTING GAS-FIRED WATER HEATER TO REMAIN.
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- ⑤ MODIFY EXISTING AIR COOLED CONDENSING UNIT ALONG WITH ALL REFRIGERANT PIPING CONTROL WIRING, ETC. IN THEIR ENTIRETY. STORE FOR REINSTALLATION. SEE NEW WORK DRAWINGS.
- ⑥ REMOVE EXISTING AIR HANDLING UNIT AND CAP DUCTWORK TEMPORARILY. STORE AIR HANDLER FOR REINSTALLATION. SEE NEW WORK DRAWINGS.



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

BELL STREET

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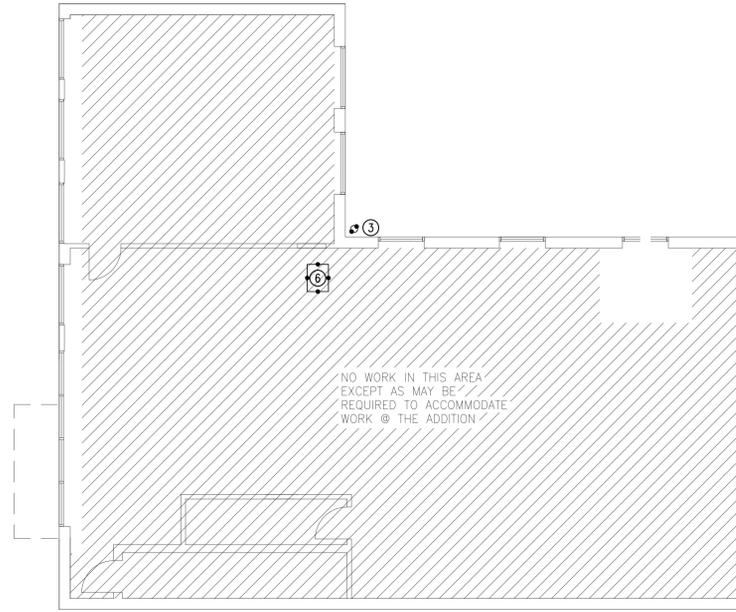
M1.2

1ST FLOOR
 HVAC DEMO

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HVAC DEMOLITION NOTES:

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- ⑥ REMOVE EXISTING AIR HANDLING UNIT AND CAP DUCTWORK TEMPORARILY. STORE AIR HANDLER FOR REINSTALLATION. SEE NEW WORK DRAWINGS.



HVAC SECOND FLOOR PLAN DEMOLITION

1/8"=1'-0"

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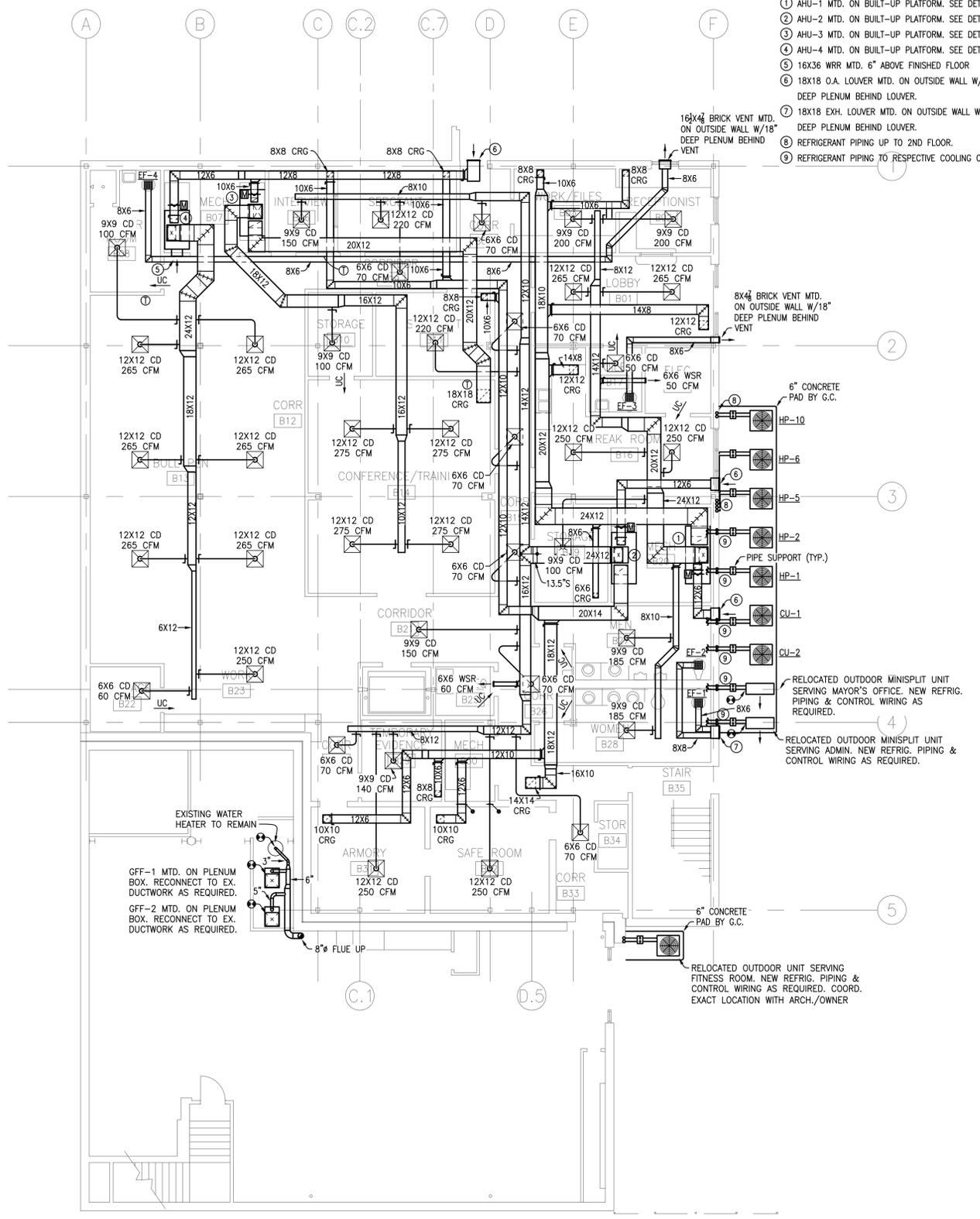
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M1.3
 2nd FLOOR
 HVAC DEMO
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HVAC KEYED NOTES:

- ① AHU-1 MTD. ON BUILT-UP PLATFORM. SEE DETAIL.
- ② AHU-2 MTD. ON BUILT-UP PLATFORM. SEE DETAIL.
- ③ AHU-3 MTD. ON BUILT-UP PLATFORM. SEE DETAIL.
- ④ AHU-4 MTD. ON BUILT-UP PLATFORM. SEE DETAIL.
- ⑤ 16X36 WRR MTD. 6" ABOVE FINISHED FLOOR
- ⑥ 18X18 O.A. LOUVER MTD. ON OUTSIDE WALL W/18" DEEP PLENUM BEHIND LOUVER.
- ⑦ 18X18 EXH. LOUVER MTD. ON OUTSIDE WALL W/18" DEEP PLENUM BEHIND LOUVER.
- ⑧ REFRIGERANT PIPING UP TO 2ND FLOOR.
- ⑨ REFRIGERANT PIPING TO RESPECTIVE COOLING COIL.



GF-1 MTD. ON PLENUM BOX. RECONNECT TO EX. DUCTWORK AS REQUIRED.
 GF-2 MTD. ON PLENUM BOX. RECONNECT TO EX. DUCTWORK AS REQUIRED.

RELOCATED OUTDOOR MINISPLIT UNIT SERVING MAYOR'S OFFICE. NEW REFRIG. PIPING & CONTROL WIRING AS REQUIRED.
 RELOCATED OUTDOOR MINISPLIT UNIT SERVING ADMIN. NEW REFRIG. PIPING & CONTROL WIRING AS REQUIRED.

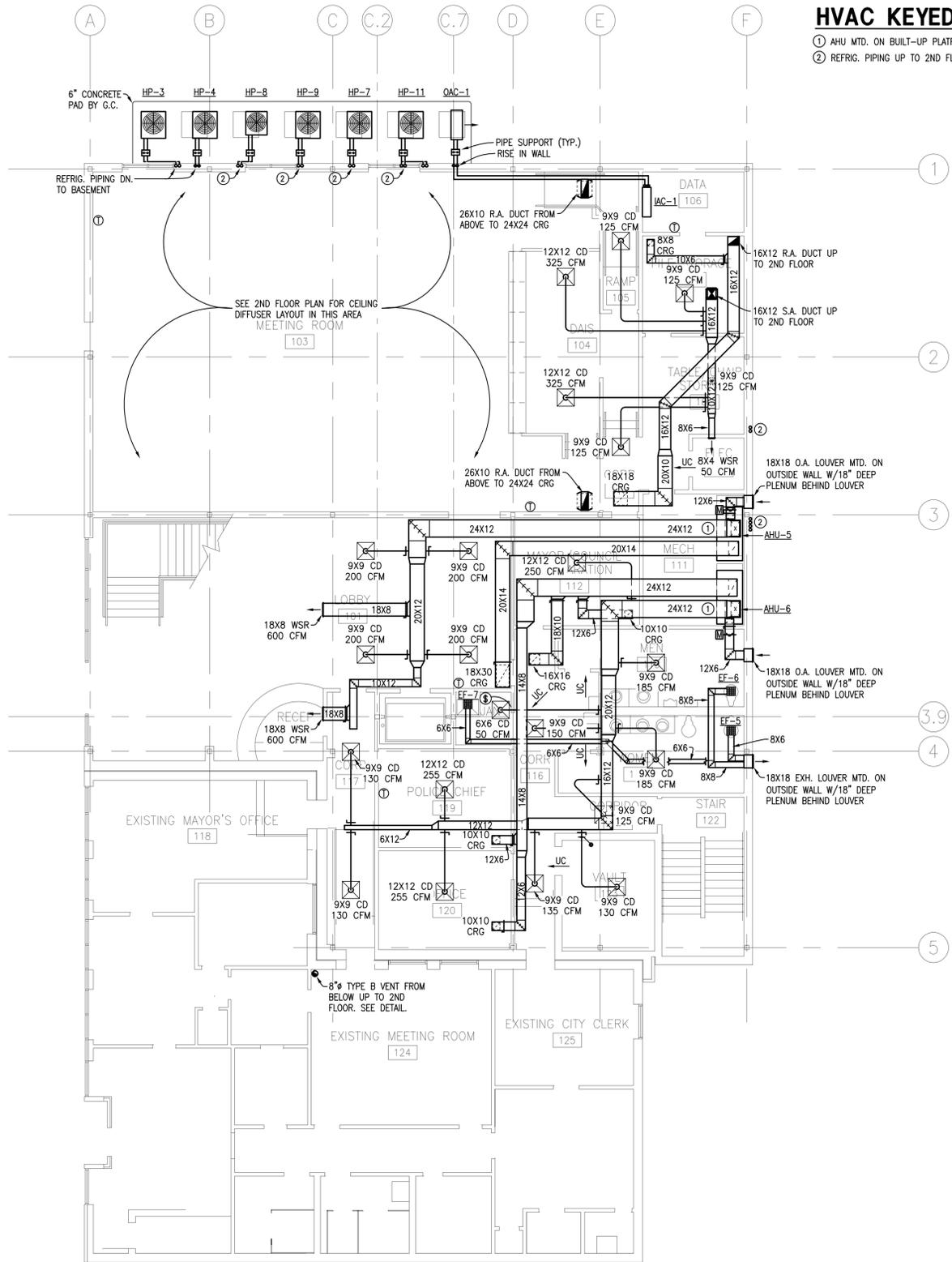
GENERAL NOTE:

- 1) SEE ARCHITECTURAL ELEVATIONS FOR LOCATIONS OF ALL LOUVERS MOUNTED ON OUTSIDE WALL



HVAC BASEMENT FLOOR PLAN 1/8"=1'-0"

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HVAC KEYED NOTES:

- ① AHU MTD. ON BUILT-UP PLATFORM. SEE DETAIL.
- ② REFRIG. PIPING UP TO 2ND FLOOR.

GENERAL NOTE:

- 1) SEE ARCHITECTURAL ELEVATIONS FOR LOCATIONS OF ALL LOUVERS MOUNTED ON OUTSIDE WALL



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

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HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

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DRAWN BY HPH
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1st FLOOR
HVAC PLAN

M2.2
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RECTANGULAR CONNECTION		* ROUND CONNECTION	
MAXIMUM CFM	NECK SIZE	MAXIMUM CFM	NECK SIZE
125	6x6	95	6"
185	6x9	140	7"
280	9x9	210	8"
375	9x12	280	9"
500	12x12	375	10"
625	12x15	465	12"
780	15x15	520	12"
935	15x18	635	14"
1085	18x18	710	14"
1265	18x21	895	16"

NOTES:
1. ALL CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS INDICATED OTHERWISE
2. PROVIDE INCREASER OR REDUCER MIN. 5 FT. UPSTREAM OF DIFFUSER WHERE RUNOUT SIZE DOES NOT MATCH NECK SIZE.
* BASIS OF DESIGN

MARK	COOLING CAP. (MBH)			HEATING CAP. (MBH)			ELECTRICAL					ACCESSORIES	BASIS OF DESIGN (TRANE)
	TOTAL	SENSIBLE	AMB. (°F)	TOTAL	AMB. (°F)	MINIMUM SEER	MCA	MOP	V	PH	HZ		
HP-1	60.0	45.0	95	58	47	14	21	35	208	3	60	[1][2][3][4][5]	4TWA4060
HP-2	60.0	45.0	95	58	47	14	21	35	208	3	60	[1][2][3][4][5]	4TWA4060
HP-3	36.0	27.0	95	34	47	14	13	20	208	3	60	[1][2][3][4][5]	4TWA4036
HP-4	60.0	45.0	95	58	47	14	21	35	208	3	60	[1][2][3][4][5]	4TWA4060
HP-5	60.0	45.0	95	58	47	14	21	35	208	3	60	[1][2][3][4][5]	4TWA4060
HP-6	60.0	45.0	95	58	47	14	21	35	208	3	60	[1][2][3][4][5]	4TWA4060
HP-7	36.0	27.0	95	34	47	14	13	20	208	3	60	[1][2][3][4][5]	4TWA4036
HP-8	48.0	36.0	95	46	47	14	18	30	208	3	60	[1][2][3][4][5]	4TWA4048
HP-9	48.0	36.0	95	46	47	14	18	30	208	3	60	[1][2][3][4][5]	4TWA4048
HP-10	60.0	45.0	95	58	47	14	21	35	208	3	60	[1][2][3][4][5]	4TWA4060
HP-11	36.0	27.0	95	34	47	14	13	20	208	3	60	[1][2][3][4][5]	4TWA4036

NOTES:
1. CAPACITY TO BALANCE RESPECTIVE AC UNIT
2. MINIMUM SEER AT ARI CONDITIONS
3. PROVIDE REFRIGERANT SPECIALTIES AS NECESSARY

ACCESSORIES:
[1] LOW AMBIENT KIT
[2] ANTI-SHORT CYCLE TIMER
[3] EVAPORATOR DEFROST CONTROL
[4] CONDENSER COIL GUARD
[5] RUBBER ISOLATORS
[6] RAWAL APR VALVE

MARK	SUPPLY FAN			OSA CFM	COOLING CAPACITY			SUPP. ELEC. HEAT		ELECTRICAL					ACCESSORIES	BASIS OF DESIGN (TRANE)	
	CFM	E.S.P. (N. W.C.)	HP		TOTAL (MBH)	SENSIBLE (MBH)	ENT. AIR (°Fdb) (°Fwb)	KW	NUMBER STAGES	MCA	MOP	V	PH	HZ			
AHU-1	2000	0.75	1	300	60	45	80	67	10.8	1	46	50	208	3	60	[1][2][3][4][5]	GAM580C60
AHU-2	2000	0.75	1	300	60	45	80	67	10.8	1	46	50	208	3	60	[1][2][3][4][5]	GAM580C60
AHU-3	1200	0.70	1/2	180	36	27	80	67	7.2	1	30	30	208	3	60	[1][2][3][4][5]	GAM580B36
AHU-4	2000	0.75	1	300	60	45	80	67	10.8	1	46	50	208	3	60	[1][2][3][4][5]	GAM580C60
AHU-5	2000	0.75	1	300	60	45	80	67	10.8	1	46	50	208	3	60	[1][2][3][4][5]	GAM580C60
AHU-6	2000	0.75	1	300	60	45	80	67	10.8	1	46	50	208	3	60	[1][2][3][4][5]	GAM580C60
AHU-7	1200	0.70	1/2	180	36	27	80	67	7.2	1	30	30	208	3	60	[1][2][3][4][5]	GAM580B36
AHU-8	1600	0.75	3/4	240	48	36	80	67	10.8	1	44	45	208	3	60	[1][2][3][4][5]	GAM580C48
AHU-9	1600	0.75	3/4	240	48	36	80	67	10.8	1	44	45	208	3	60	[1][2][3][4][5]	GAM580C48
AHU-10	2000	0.75	1	300	60	45	80	67	10.8	1	46	50	208	3	60	[1][2][3][4][5]	GAM580C60
AHU-11	1200	0.70	1/2	180	36	27	80	67	7.2	1	30	30	208	3	60	[1][2][3][4][5]	GAM580B36

NOTES:
1. E.S.P. DOES NOT INCLUDE INTERNAL LOSSES (ELEC. HEATER, COOLING COIL, FILTER, ETC.)
2. CAPACITIES ARE MINIMUM GROSS CAPACITIES
3. PROVIDE SUCTION LINE ACCUMULATORS WHERE REFRIGERANT LINES EXCEED 85 FEET, OR WHERE RECOMMENDED BY FACTORY
4. PROVIDE FILTER RACK EQUAL TO EZ FILTER BASE TO ALLOW FOR EASY FILTER ACCESS

ACCESSORIES:
[1] DIRECT DRIVE
[2] ONE INCH MERV 8 THROWAWAY FILTER
[3] SINGLE POINT ELEC. CONNECTION
[4] NEOPRENE PAD ISOLATORS
[5] 2" DEEP AUX. DRAIN PAN

MARK	SUPPLY FAN			OSA CFM	COOLING CAPACITY				HEATING CAPACITY		ELECTRICAL					FLUE # (N)	ACCESSORIES	BASIS OF DESIGN (TRANE)
	CFM	E.S.P. (N. W.C.)	HP		TOTAL (MBH)	SENSIBLE (MBH)	ENT. AIR (°Fdb) (°Fwb)	INPUT (MBH)	OUTPUT (MBH)	MCA	MOP	V	PH	HZ				
GFF-1	1400	0.70	3/4	180	42	31	80	67	80	64	13.1	15	120	1	60	5	[1][2][3][4]	SBX1B080

NOTES:
1. E.S.P. DOES NOT INCLUDE INTERNAL LOSSES (COOLING COIL, FILTER, ETC.)
2. CAPACITIES ARE MINIMUM GROSS CAPACITIES
3. PROVIDE FILTER RACK EQUAL TO EZ FILTER BASE TO ALLOW FRONT ACCESS TO PLATFORM MOUNTED UNIT

ACCESSORIES:
[1] DIRECT DRIVE
[2] ONE INCH THICK THROWAWAY FILTER
[3] NEOPRENE PAD ISOLATORS
[4] CASED D/X COOLING COIL

MARK	TYPE	CFM	E.S.P. (N. W.C.)	RPM	MAX SONES	ELECTRICAL				CONTROL INTERLOCK	ACCESSORIES	BASIS OF DESIGN (GREENHECK)
						W	V	PH	HZ			
EF-1	[A]	150	1/4	710	2	26	120	1	60	LIGHTS	[1][2][3][4][5][6]	SP-A200
EF-2	[A]	225	1/4	926	2	83	120	1	60	LIGHTS	[1][2][3][4][5][6]	SP-A250
EF-3	[A]	75	1/4	877	2	14	120	1	60	LIGHTS	[1][2][3][4][5][6]	SP-A90
EF-4	[A]	125	1/4	658	2	20	120	1	60	LIGHTS	[1][2][3][4][5][6]	SP-A200
EF-5	[A]	150	1/4	710	2	26	120	1	60	LIGHTS	[1][2][3][4][5][6]	SP-A200
EF-6	[A]	225	1/4	926	2	83	120	1	60	LIGHTS	[1][2][3][4][5][6]	SP-A250
EF-7	[A]	100	1/4	1055	2	18	120	1	60	WALL SWITCH	[1][2][3][4][5][6]	SP-A125
EF-8	[A]	75	1/4	877	2	14	120	1	60	LIGHTS	[1][2][3][4][5][6]	SP-A90

FAN TYPES:
[A] CEILING MOUNTED EXHAUST FAN, DIRECT DRIVE

FAN ACCESSORIES AND NOTES:
[1] SOLID STATE SPEED CONTROLLER
[2] PREWIRED DISCONNECT SWITCH
[3] BACKDRAFT DAMPER
[4] RUBBER-IN-SHEAR ISOLATORS
[5] CEILING EXHAUST GRILLE
[6] WALL EXHAUST CAP

MARK	COOLING CAP. (MBH)			MINIMUM SEER	ELECTRICAL					ACCESSORIES	BASIS OF DESIGN (TRANE)
	TOTAL	SENSIBLE	AMB. (°F)		MCA	MFS	V	PH	HZ		
CU-1	42	31	95	14	15	25	208	3	60	[1][2][3]	4TTA4042
CU-2	42	31	95	14	15	25	208	3	60	[1][2][3]	4TTA4042

NOTES:
1. CAPACITY TO BALANCE RESPECTIVE AC UNIT
2. MINIMUM SEER/EER AT ARI CONDITIONS
3. PROVIDE REFRIGERANT SPECIALTIES AS NECESSARY

ACCESSORIES:
[1] CONDENSER COIL GUARD
[2] HEAD PRESSURE CONTROL TO 40°F AMBIENT
[3] ANTI-SHORT CYCLE RELAY

INDOOR UNIT MARK	OUTDOOR UNIT MARK	TYPE	CFM	COOLING CAPACITY			ELECTRICAL					BASIS OF DESIGN INDOOR UNIT (MITSUBISHI)	BASIS OF DESIGN OUTDOOR UNIT (MITSUBISHI)	
				TOTAL (MBH)	SENSIBLE (MBH)	ENT. AIR (°F db) (°F wb)	MCA	MOP	V	PH	HZ			
IAC-1	OAC-1	[A]	380	12	9	80	67	13	15	208	1	60	PKA-A12	PUY-A12

TYPE:
[A] WALL HUNG TYPE

ACCESSORIES:
[1] MICROPROCESSOR BASED CONTROLS WITH HARD-WIRED REMOTE CONTROLLER
[2] CONDENSATE PUMP
[3] LOW AMBIENT OPERATION DOWN TO 0°F

NOTES:
1. CAPACITIES ARE MINIMUM GROSS CAPACITIES
2. CAPACITY TO BALANCE INDOOR COOLING AT 95°F AMBIENT
3. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT
4. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

LEGEND

	RECTANGULAR DUCT W/ SIZE (WIDTH X DEPTH)		CEILING DIFFUSER
	EXISTING TO BE REMOVED		CEILING RETURN GRILLE
	EXISTING TO REMAIN		CEILING TRANSFER GRILLE
	ROUND DUCT WITH SIZE		WALL RETURN REGISTER
	SPLITTER DAMPER WITH SPLIT SIZE		WALL SUPPLY REGISTER
	TURNING VANES		UNDERCUT DOOR 3/4"
	MTD.		MOUNTED
	R.A.		RETURN AIR
	S.A.		SUPPLY AIR
	O.A.		OUTSIDE AIR
	EXH.		EXHAUST
	DN.		DOWN
	FIRE/SMOKE DAMPER		GENERAL CONTRACTOR
	MANUAL VOLUME DAMPER (MVD)		TYPICAL
	MOTORIZED DAMPER		CEILING
	CEILING MOUNTED EXHAUST FAN		EXISTING
	THERMOSTAT		TERMINATION POINT OF DEMOLITION
			CONNECT TO EXISTING VERIFY EXACT LOCATION

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HEFLIN, ALABAMA

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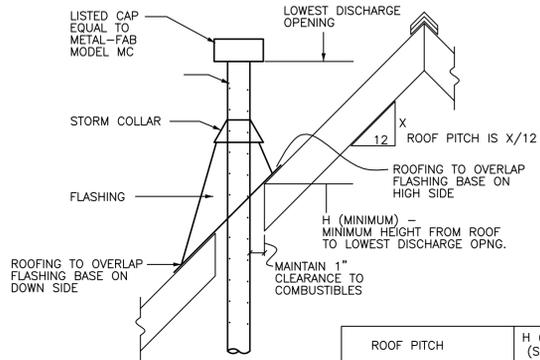
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HVAC SCHEDULES

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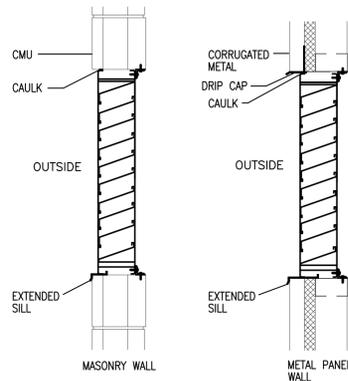


ROOF PITCH	H (MINIMUM) FT. (SEE NOTE 3)
FLAT TO 6/12	1.0
6/12 TO 7/12	1.25
OVER 7/12 TO 8/12	1.5
OVER 8/12 TO 9/12	2.0
OVER 9/12 TO 10/12	2.5
OVER 10/12 TO 11/12	3.25
OVER 11/12 TO 12/12	4.0
OVER 12/12 TO 14/12	5.0
OVER 14/12 TO 16/12	6.0
OVER 16/12 TO 18/12	7.0
OVER 18/12 TO 20/12	7.5
OVER 20/12 TO 21/12	8.0

- NOTES:**
- GAS VENT TERMINATION LOCATIONS FOR LISTED CAPS 12 INCHES OR LESS IN SIZE AT LEAST 8 FT. FROM A VERTICAL WALL.
 - VENT CAP MUST BE LISTED OR APPROVED BY A NATIONALLY RECOGNIZED TESTING AGENCY AND SHALL BE INSTALLED ACCORDING TO THE LISTING OR APPROVAL REQUIREMENTS.
 - MINIMUM MOUNTING HEIGHT "H" TO BE AS REQUIRED PER CAP LISTING OR LOCAL BUILDING AUTHORITY, WHICHEVER IS GREATER.

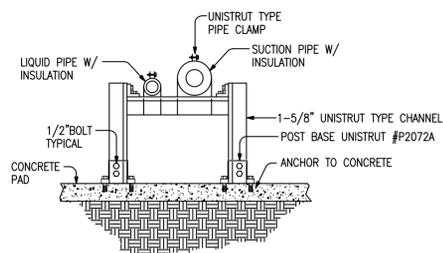
GAS VENT DETAIL

NOT TO SCALE



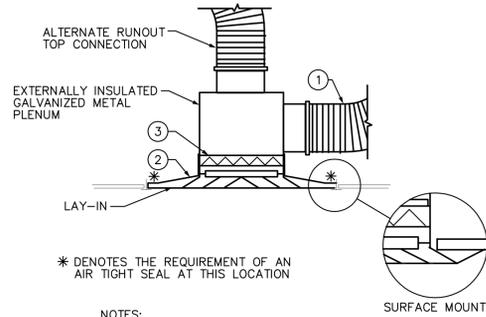
FIXED BLADE LOUVER DETAIL

NO SCALE



PIPE SUPPORT DETAIL

NO SCALE

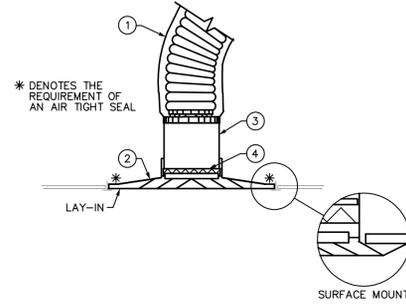


* DENOTES THE REQUIREMENT OF AN AIR TIGHT SEAL AT THIS LOCATION

- NOTES:**
- PRE-INSULATED FLEX DUCT AS REQUIRED. INSTALLED PERMANENTLY SEALED AND SUPPORTED TO PREVENT KINKING AND SHARP TURNS. MAXIMUM LENGTH 5'-0", 1 - 90° TURN ALLOWED. LAY-IN OR SURFACE MOUNT CEILING DIFFUSER WITH SQUARE NECK. SEE ARCHITECT'S REFLECTED CEILING PLAN FOR CEILING TYPE.
 - WHERE SCHEDULED, PROVIDE OBD WITH OPERATING LEVER ACCESSIBLE FROM FACE OF DIFFUSER.

CEILING DIFFUSER DETAIL

SCALE: NONE
FOR RUNOUTS 9"Ø AND LARGER RECTANGULAR OR SQUARE NECK
SCALE: NONE

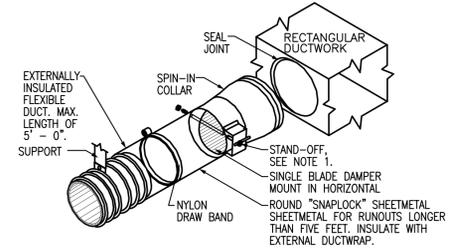


* DENOTES THE REQUIREMENT OF AN AIR TIGHT SEAL

- NOTES:**
- PRE-INSULATED FLEX DUCT AS REQUIRED. INSTALLED PERMANENTLY SEALED AND SUPPORTED TO PREVENT KINKING AND SHARP TURNS. MAXIMUM LENGTH 5'-0", 1 - 45° TURN ALLOWED. LAY-IN CEILING DIFFUSER WITH ROUND NECK. SEE ARCHITECT'S REFLECTED CEILING PLAN FOR CEILING TYPE.
 - HARD ROUND DUCT CONNECTED TO DIFFUSER - INSULATED WITH EXTERNAL DUCTWRAP.
 - WHERE SCHEDULED, PROVIDE OBD W/SCREWDRIER ADJUSTABLE ACCESSIBLE FROM FACE OF DIFFUSER.

CEILING DIFFUSER DETAIL

SCALE: NONE
FOR 8"Ø RUNOUTS AND SMALLER RECTANGULAR OR SQUARE NECK
SCALE: NONE

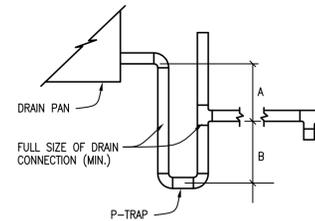


NOTES:

- PROVIDE STAND-OFF AND EXTENSION ROD TO ACCOMMODATE INSULATION.
- INSULATE SPIN-IN WITH EXTERNAL DUCT WRAP. SLIT INSULATION AT DAMPER RODS. SEAL JOINTS VAPOR TIGHT WITH MASTIC.
- SEAL ALL JOINTS TO PREVENT LEAKAGE.

ROUND BRANCH DUCT CONNECTOR DETAIL

NOT TO SCALE

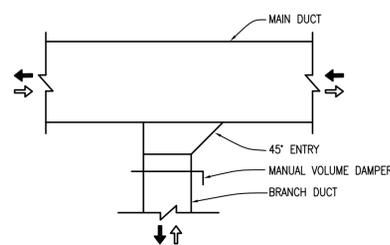


UNIT TYPE	A	B
DRAW-THRU	2" PLUS "X"	"X" PLUS "1"
BLOW-THRU	1" MINIMUM	2X PLUS 1"

WHERE "X" = AHU STATIC PRESSURE

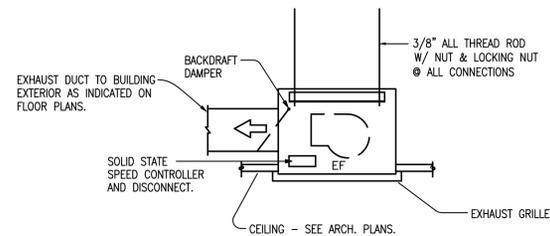
AIR HANDLING UNIT CONDENSATE DRAIN DETAIL

NOT TO SCALE



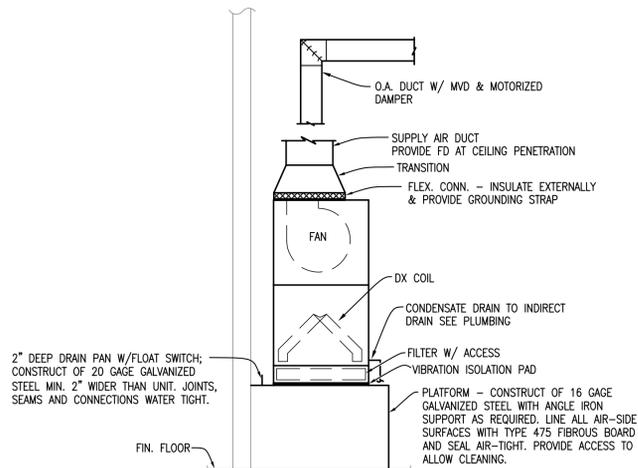
BRANCH CONNECTION DETAIL

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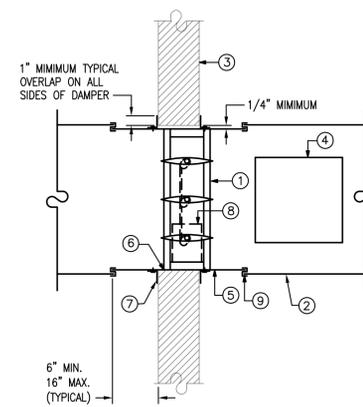
CEILING EXHAUST FAN DETAIL

NOT TO SCALE



VERTICAL AIR HANDLING UNIT INSTALLATION

NOT TO SCALE



KEYNOTES:

- DAMPER
- DUCT
- SMOKE BARRIER
- ACCESS DOOR - SIZE AS REQUIRED TO FACILITATE INSTALLATION, FIRE CAULKING AND INSPECTION
- SLEEVE
- CAULKING MATERIAL EITHER SIDE OF DAMPER FRAME
- PFMA OR CONVENTIONAL MOUNTING ANGLES
- OPERATOR/ACTUATOR
- S-JOINT/DUCTMATE, SLEEVE TO DUCT

COMBINATION FIRE/SMOKE FIRE DETAIL

NOT TO SCALE



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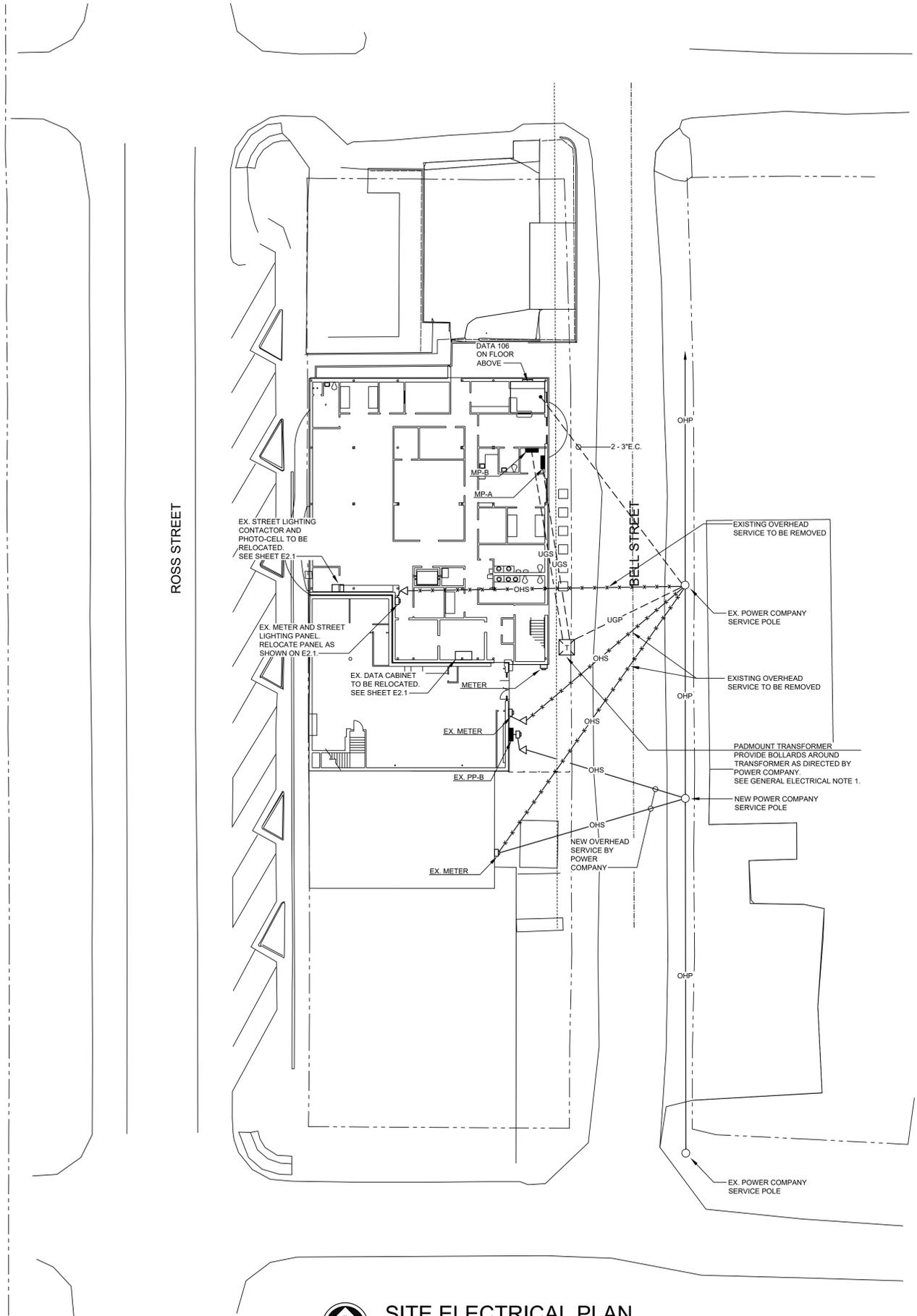
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HVAC DETAILS

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ROSS STREET

BELL STREET



SITE ELECTRICAL PLAN
SCALE :1" = 20'-0"

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ALABAMA
No. 24463
PROFESSIONAL
ENGINEER
ROBERT C. RENFRO
4.15.25

HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

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SITE ELECTRICAL PLAN

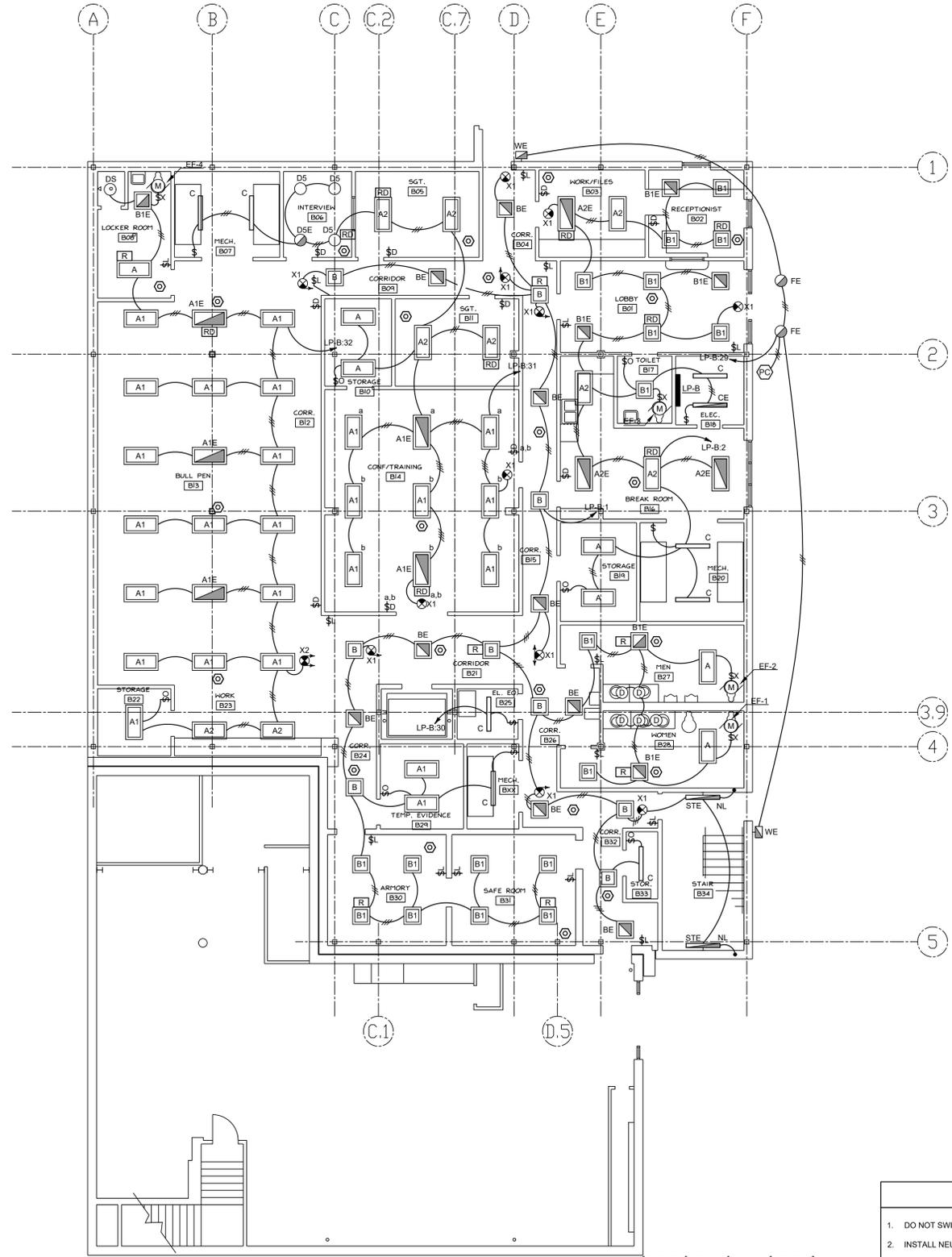
E0.1
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1. DO NOT SWITCH EXIT SIGNS, NIGHT LIGHTS, NOR BATTERY CHARGE CIRCUIT IN EMERGENCY FIXTURES.
 2. INSTALL NEUTRAL CONDUCTOR TO ALL LINE-VOLTAGE SWITCHES.
 3. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR SWINGS. ALL SWITCHES SHALL BE LOCATED ON THE LATCH SIDE OF THE DOOR.


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



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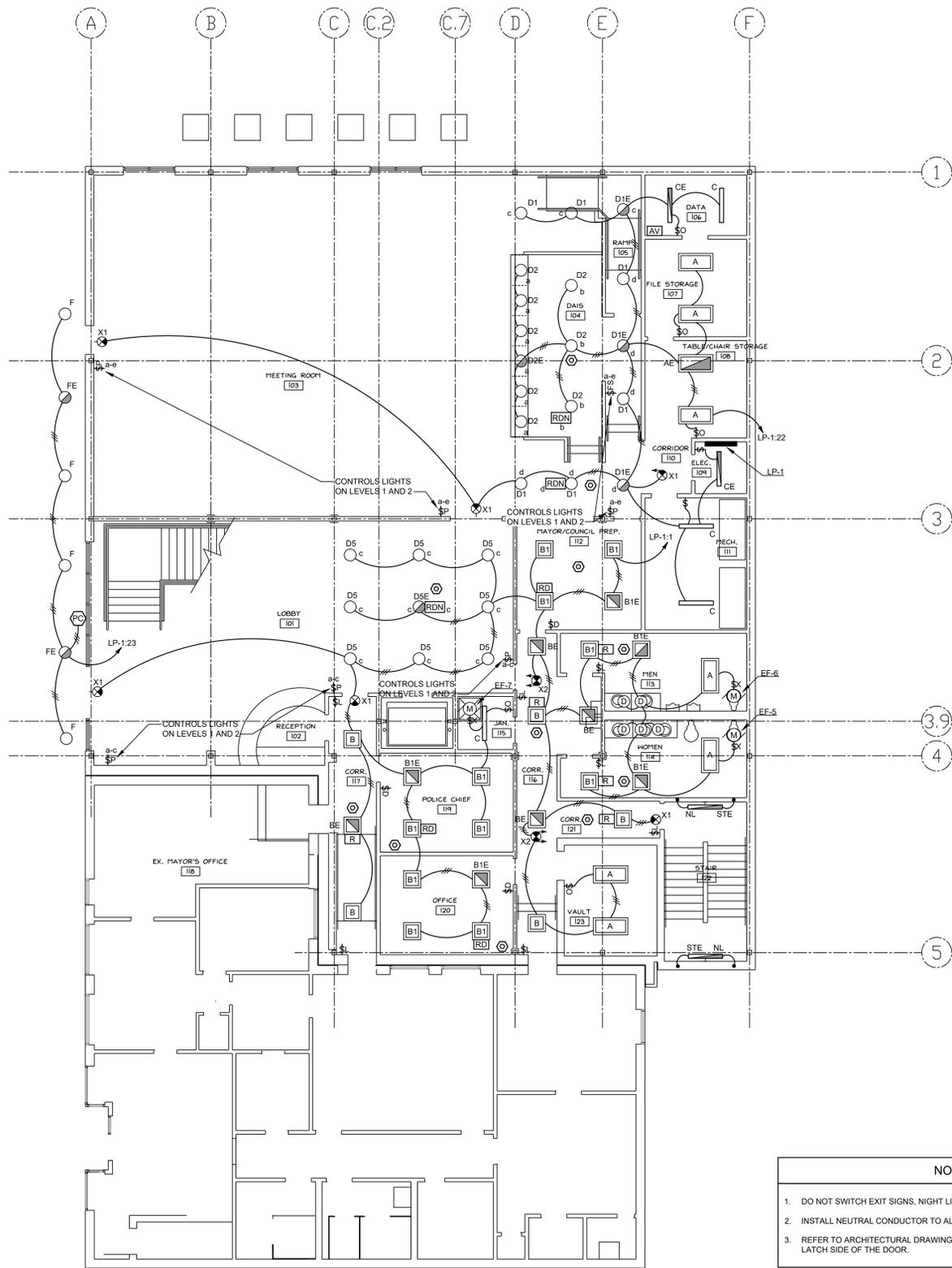
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 PROFESSIONAL ENGINEER
 ROBERT C. RENFRO
 No. 24463
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HEFFLIN POLICE STATION
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BASEMENT LIGHTING PLAN

E1.1
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 2. INSTALL NEUTRAL CONDUCTOR TO ALL LINE-VOLTAGE SWITCHES.
 3. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR SWINGS. ALL SWITCHES SHALL BE LOCATED ON THE LATCH SIDE OF THE DOOR.

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



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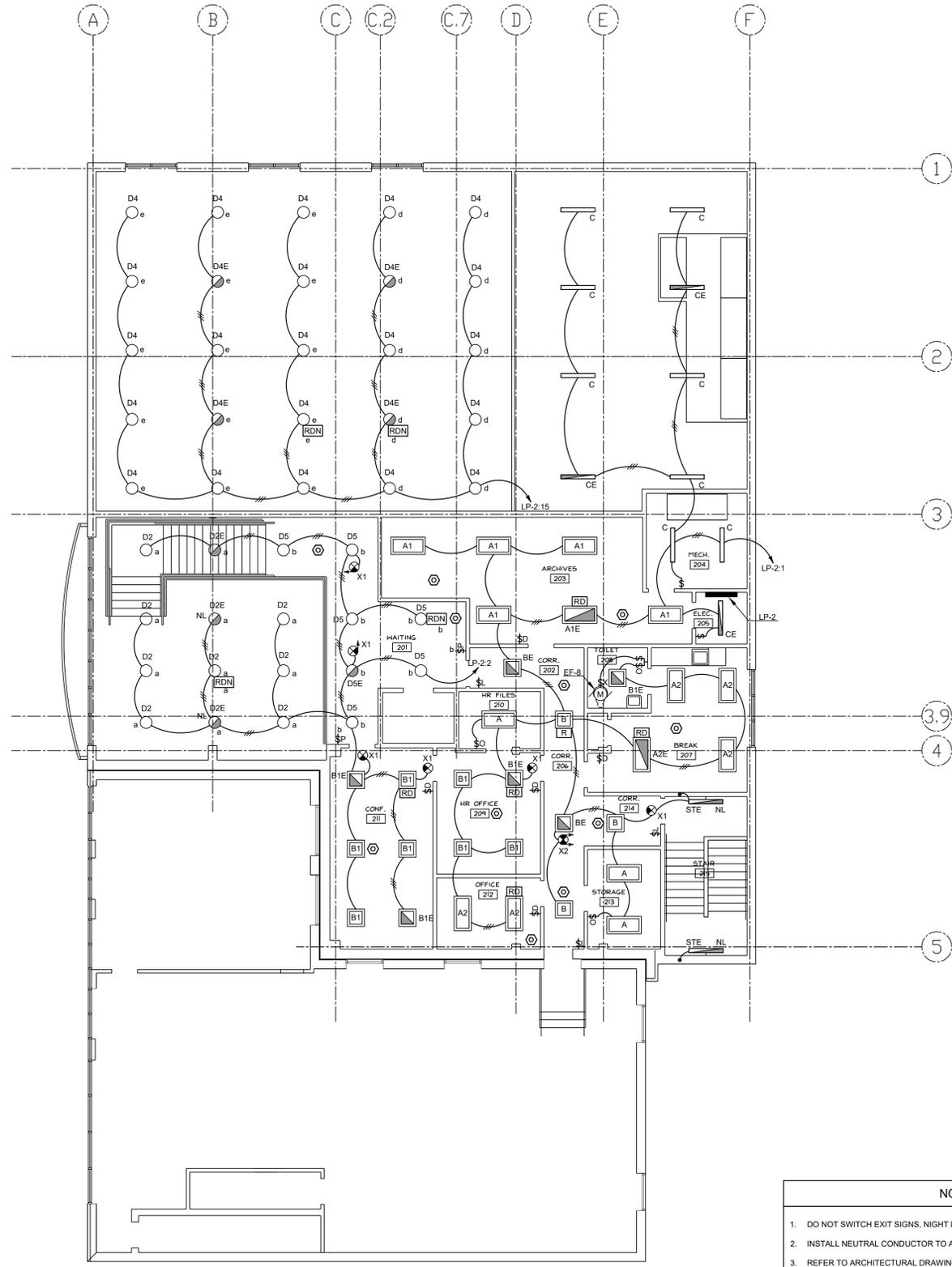
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**LEVEL 1
LIGHTING PLAN**

E1.2
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- NOTES THIS SHEET ONLY**
1. DO NOT SWITCH EXIT SIGNS, NIGHT LIGHTS, NOR BATTERY CHARGE CIRCUIT IN EMERGENCY FIXTURES.
 2. INSTALL NEUTRAL CONDUCTOR TO ALL LINE-VOLTAGE SWITCHES.
 3. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR SWINGS. ALL SWITCHES SHALL BE LOCATED ON THE LATCH SIDE OF THE DOOR.

**LEVEL 2
LIGHTING PLAN**
 SCALE: 1/8" = 1'-0"

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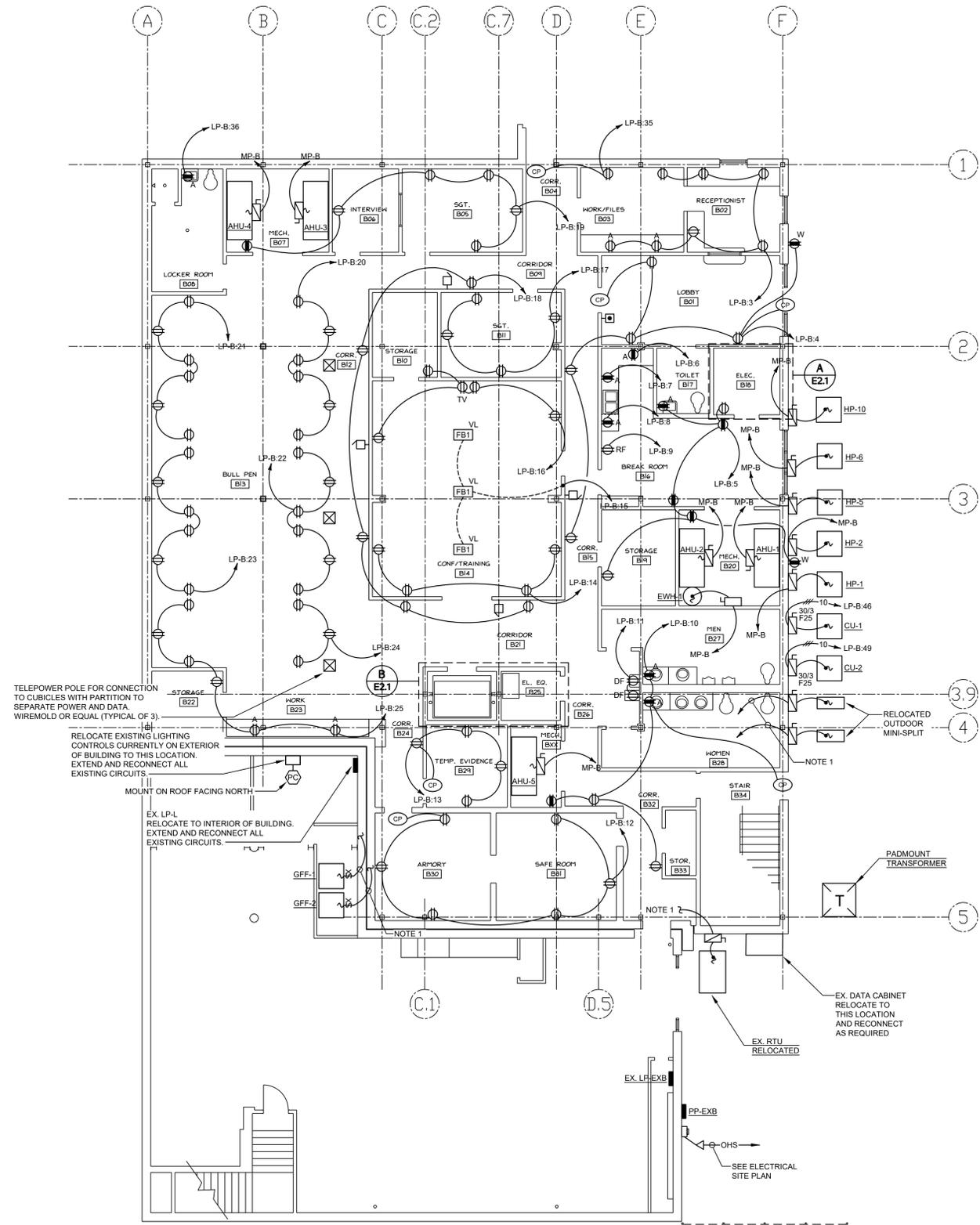
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**LEVEL 2
LIGHTING PLAN**

E1.3

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TELEPOWER POLE FOR CONNECTION TO CUBICLES WITH PARTITION TO SEPARATE POWER AND DATA. WIREMOLD OR EQUAL (TYPICAL OF 3).

RELOCATE EXISTING LIGHTING CONTROLS CURRENTLY ON EXTERIOR OF BUILDING TO THIS LOCATION. EXTEND AND RECONNECT ALL EXISTING CIRCUITS.

MOUNT ON ROOF FACING NORTH

EX LP-1 RELOCATE TO INTERIOR OF BUILDING. EXTEND AND RECONNECT ALL EXISTING CIRCUITS.

NOTE 1

NOTE 2

EX DATA CABINET RELOCATE TO THIS LOCATION AND RECONNECT AS REQUIRED

EX RTU RELOCATED

PP-EXB

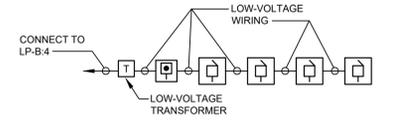
OHS

SEE ELECTRICAL SITE PLAN

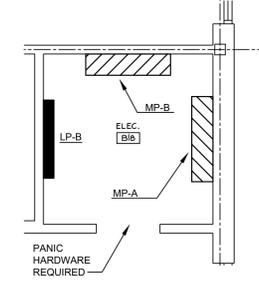
BASEMENT POWER PLAN
SCALE: 1/8" = 1'-0"

NOTES THIS SHEET ONLY

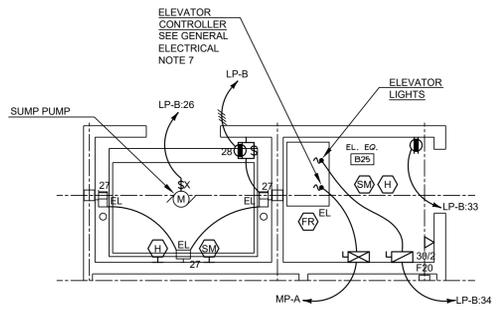
1. CONNECT TO EXISTING CIRCUIT SERVING UNIT.



DOORBELL CONNECTION DIAGRAM
SCALE: NONE

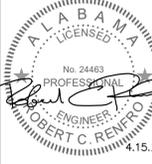


ELECTRICAL ROOM B18 - POWER PLAN
SCALE: 1/4" = 1'-0"



ELEVATOR AND ELEVATOR EQUIPMENT ROOM B25 - POWER & AUXILIARY PLAN
SCALE: 1/4" = 1'-0"

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HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

REVISIONS

DATE: 4/15/2025
PROJECT # 2102
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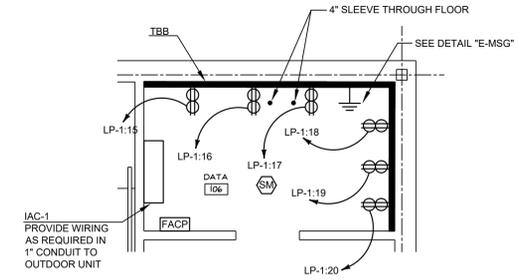
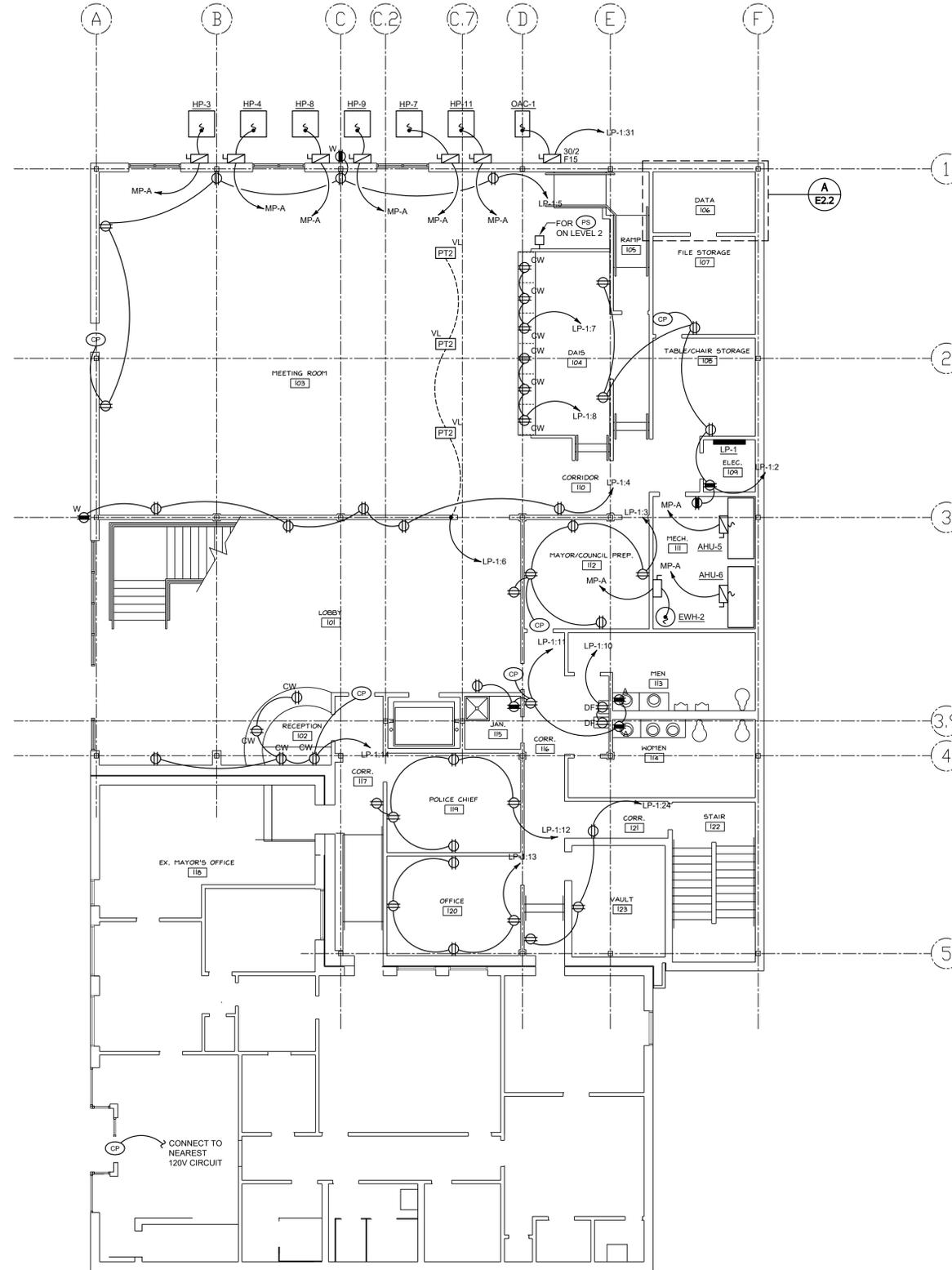
BASEMENT POWER PLAN

E2.1
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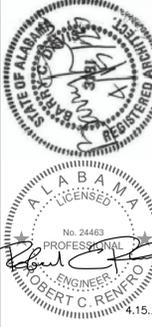
JACKSON, RENFRO & ASSOCIATES, INC.
ELECTRICAL ENGINEERS & DESIGNERS
31 INVERNESS CENTER PKWY • SUITE 300 • BIRMINGHAM, AL • 35242
ROBERT RENFRO, PE
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ELECTRICAL ENGINEERING DESIGN

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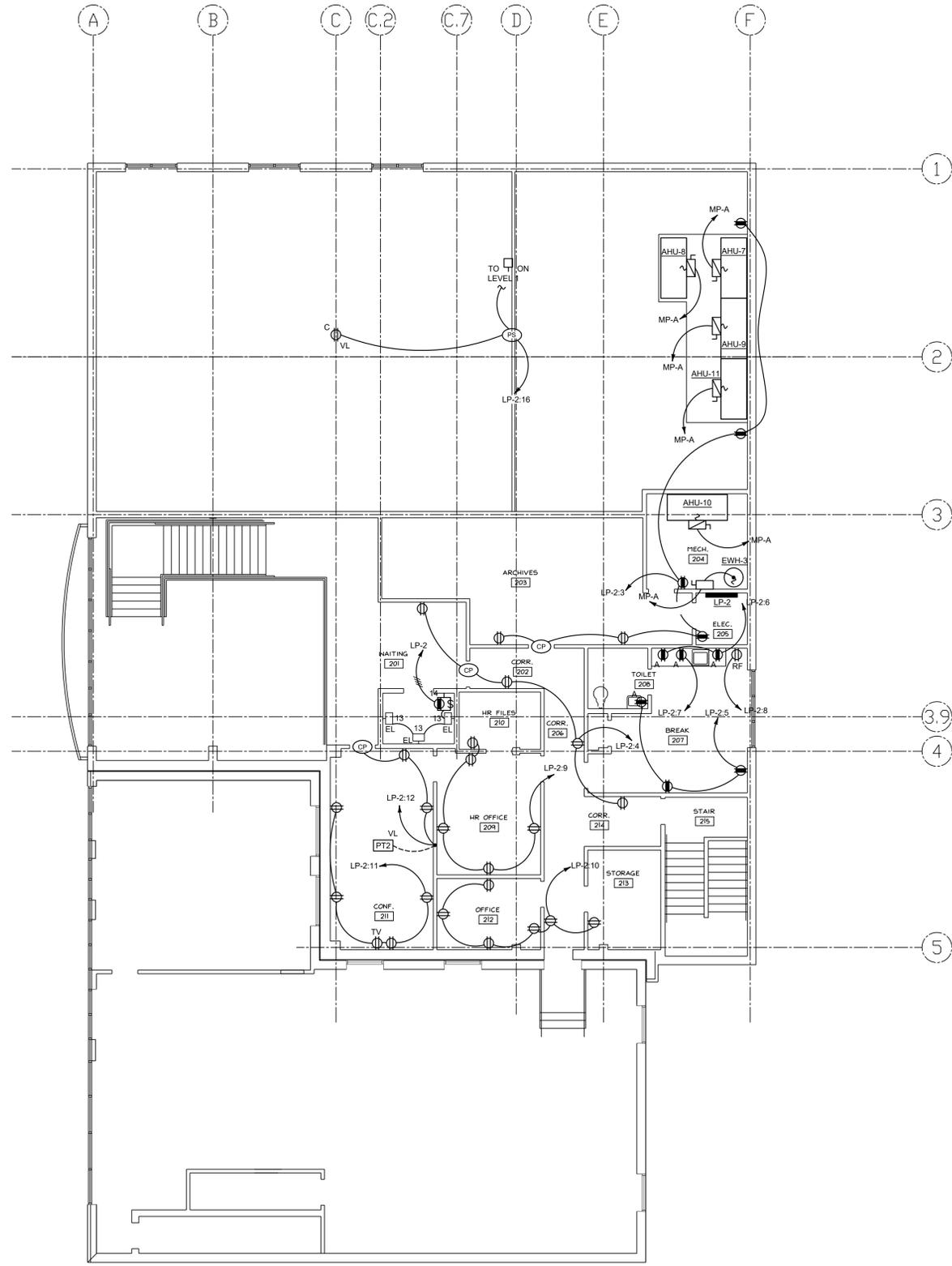
A E2.2
DATA ROOM 106 -
POWER & AUXILIARY PLAN
 SCALE :1/4" = 1'-0"

LEVEL 1
POWER PLAN
 SCALE :1/8" = 1'-0"



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LEVEL 1
POWER PLAN



**LEVEL 2
POWER PLAN**
SCALE: 1/8" = 1'-0"



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LEVEL 2
POWER PLAN

E2.3

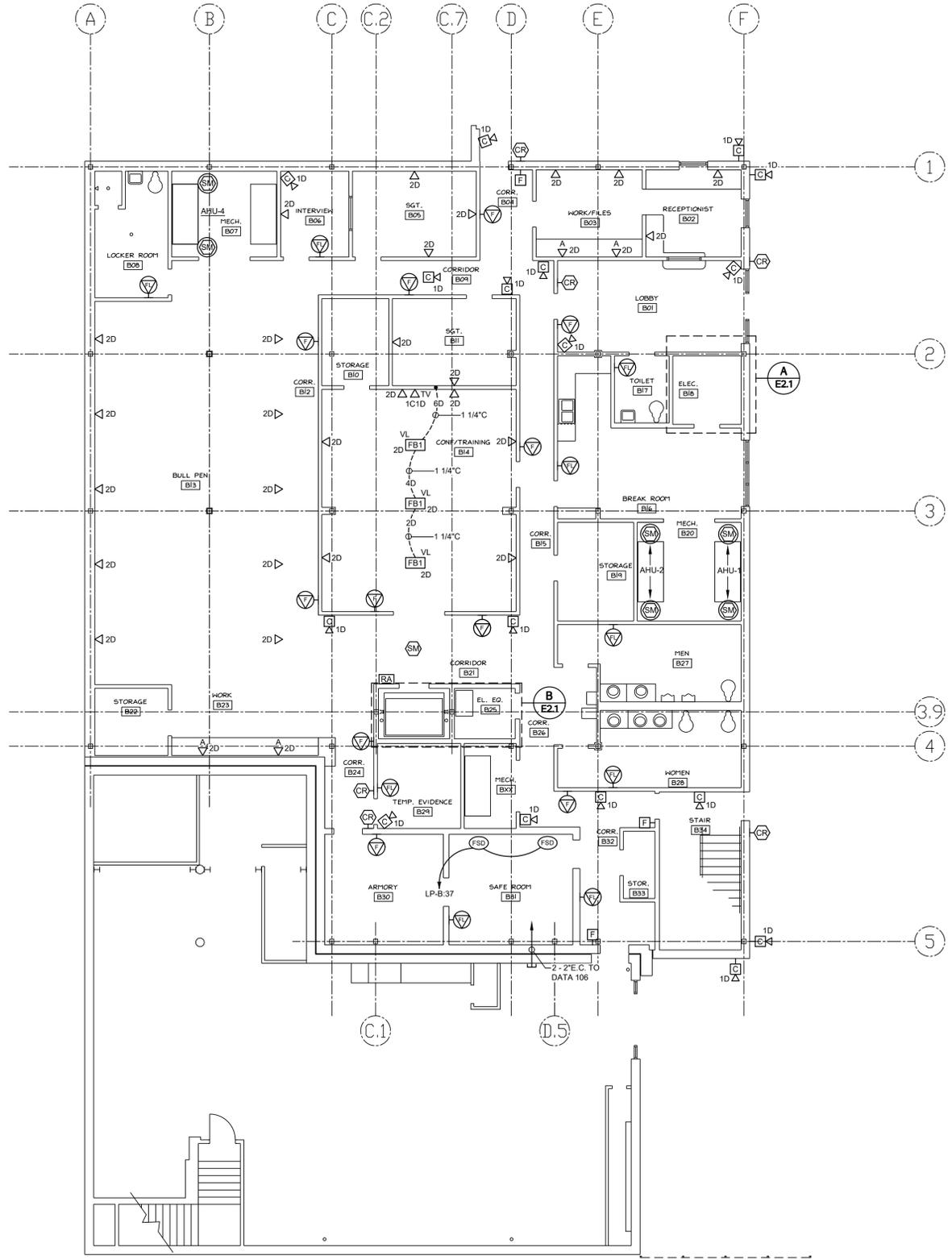
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HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

REVISIONS

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**BASEMENT
AUXILIARY PLAN**
SCALE: 1/8" = 1'-0"



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LICENSED
PROFESSIONAL
ENGINEER
ROBERT C. RENFRO
4.15.25

HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA

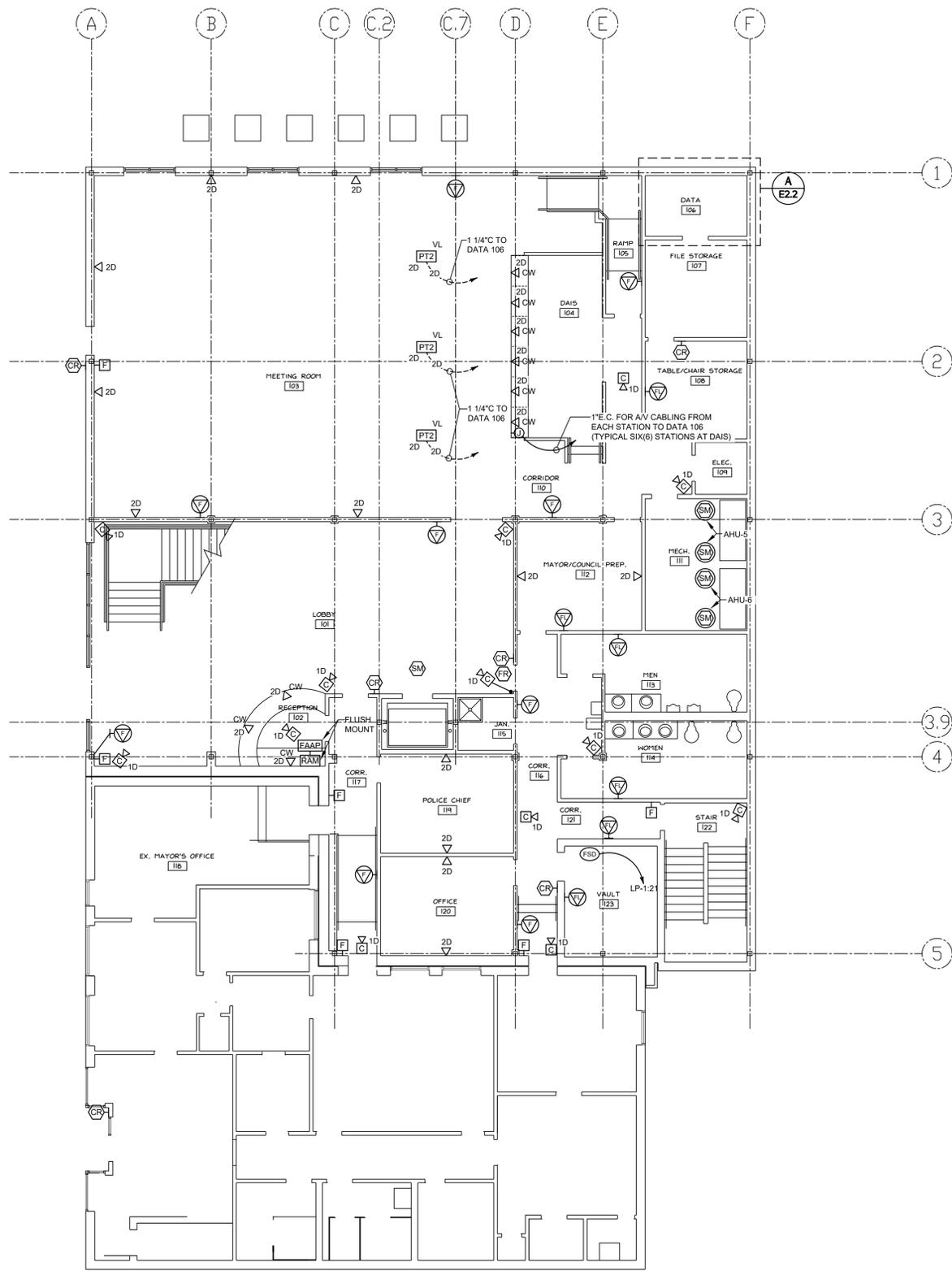
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**BASEMENT
AUXILIARY PLAN**

E3.1
89 of 97

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**LEVEL 1
AUXILIARY PLAN**
SCALE: 1/8" = 1'-0"



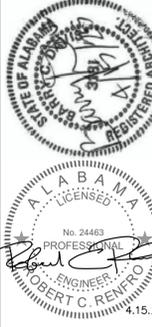
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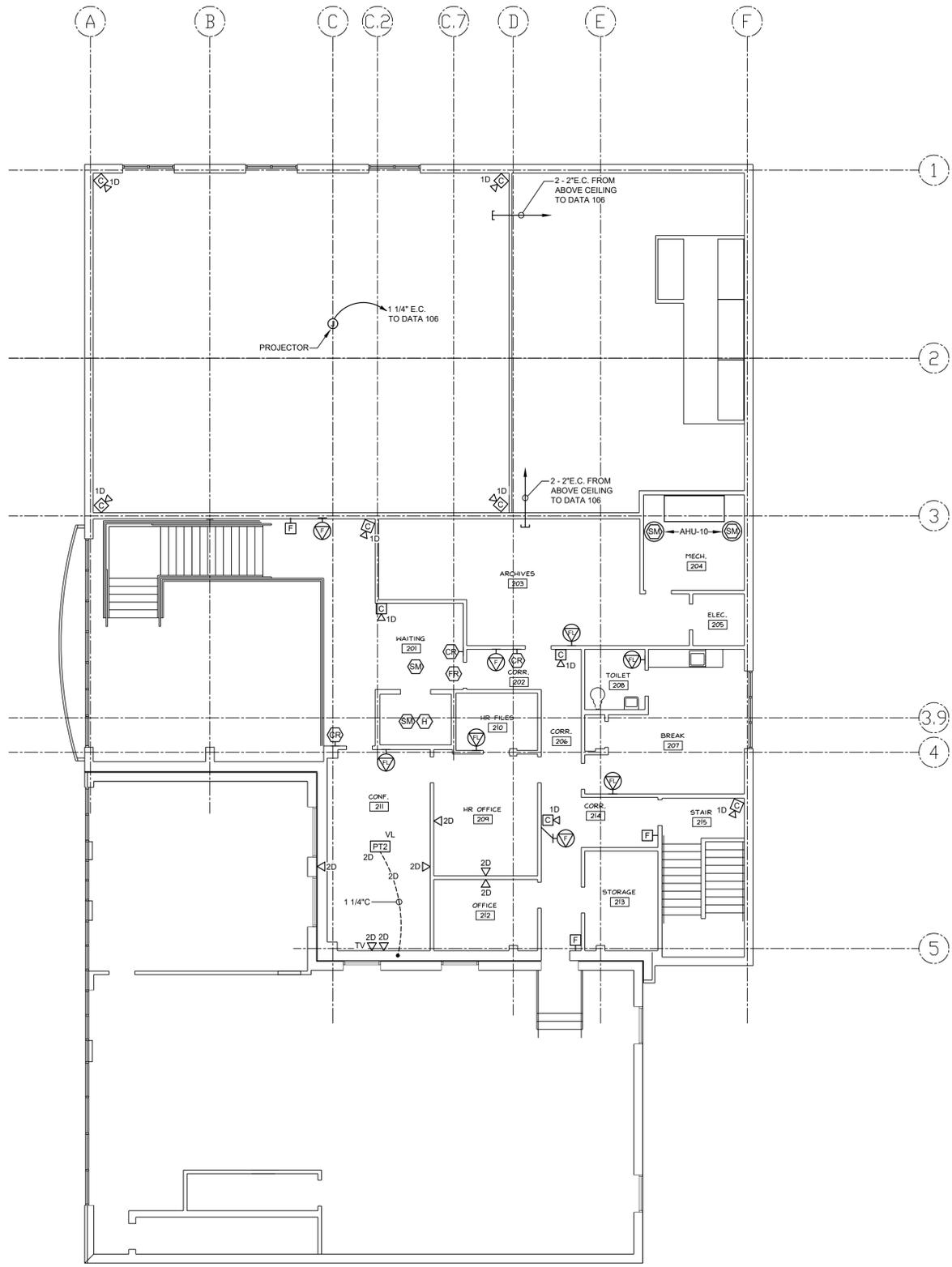
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HEFLIN POLICE STATION
850 ROSS STREET
HEFLIN, ALABAMA



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E3.2



**LEVEL 2
AUXILIARY PLAN**
SCALE: 1/8" = 1'-0"



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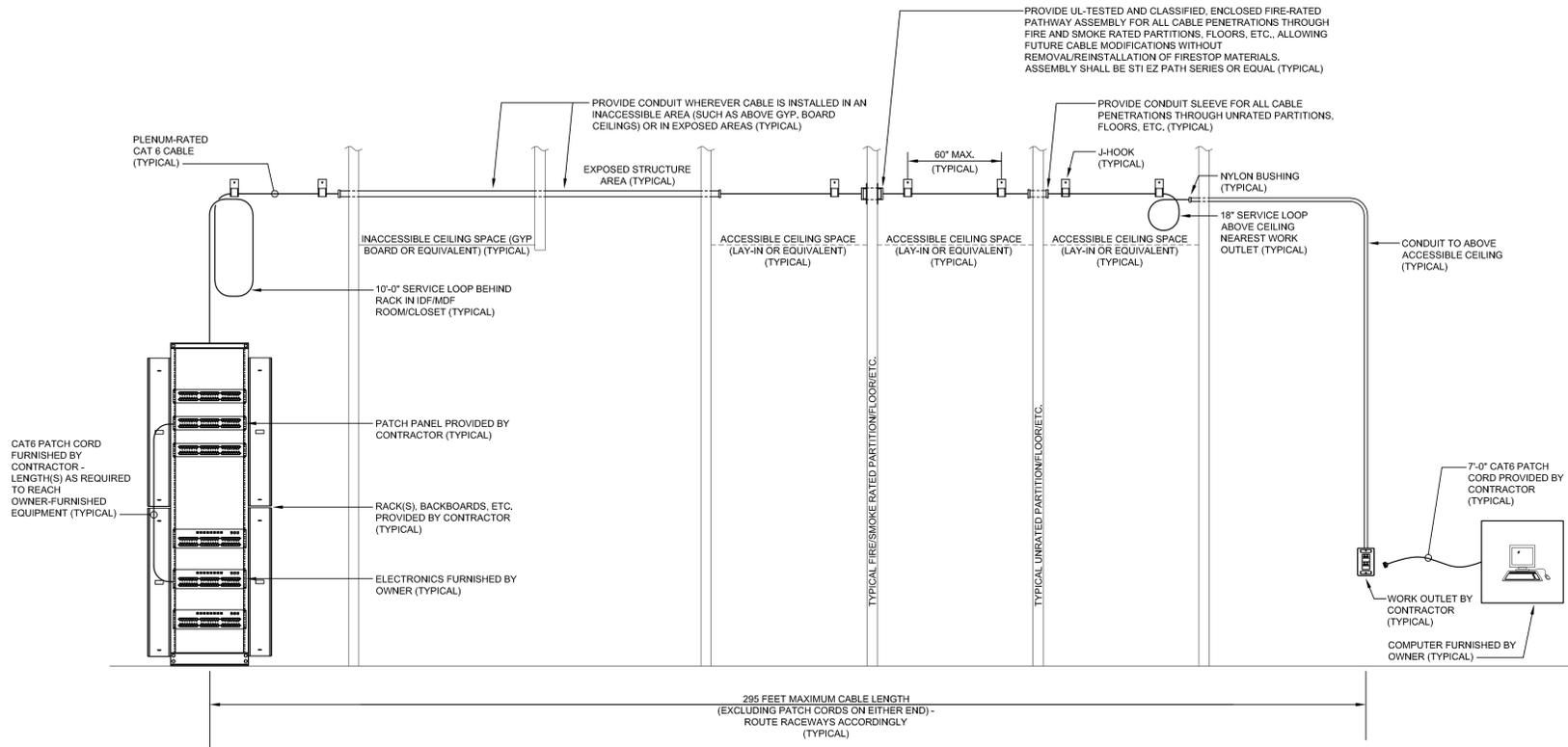
DATE: 4/15/2025
PROJECT # 2102
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LEVEL 2
AUXILIARY PLAN

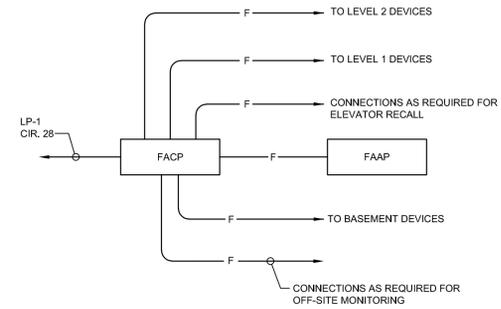
E3.3
1 of 97

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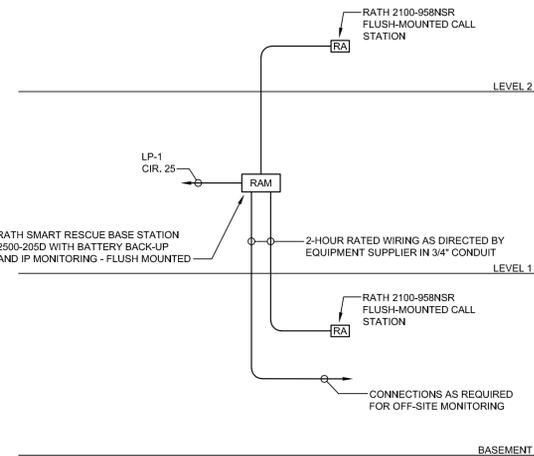


**DETAIL "E-SCH" -
STRUCTURED CABLING HORIZONTAL
TYPICAL WIRING DIAGRAM**
SCALE : NONE

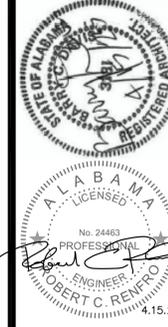


**FIRE ALARM SYSTEM
RISER DIAGRAM**
SCALE : NONE

- FIRE ALARM SYSTEM NOTES**
- COORDINATE WITH OWNER IN REGARD TO ACQUISITION OF DEDICATED PHONE LINES FROM UTILITY OR REQUIREMENTS FOR OTHER OFF-SITE MONITORING COMMUNICATION TECHNOLOGY. EXACT/ADDITIONAL COMMUNICATION TECHNOLOGY SHALL BE AS REQUIRED BY APPLICABLE CODE AND A.H.I. OFF-SITE MONITORING SERVICE SHALL BE IN OPERATION PRIOR TO ACCEPTANCE TEST.
 - FIRE ALARM EQUIPMENT SUPPLIER SHALL PROVIDE A COMPLETE SET OF FIRE ALARM EQUIPMENT SHOP DRAWINGS TO LOCAL FIRE MARSHALL FOR HIS APPROVAL.
 - ALL FIRE ALARM WIRING SHALL BE RUN IN CONDUIT, NO EXCEPTIONS.
 - PROVIDE SURGE PROTECTION DEVICES ON EACH END OF ALL COPPER FIRE ALARM CIRCUITS WITH ANY PORTION LOCATED OUTSIDE OF BUILDINGS.
 - INSTALL DUCT MOUNTED SMOKE DETECTOR(S) AND CONTROL RELAY AT EACH MECHANICAL UNIT AND AT FIRE/SMOKE DAMPERS WHERE REQUIRED FOR UNIT SHUTDOWN. COORDINATE ALL WORK REQUIRED WITH MECHANICAL CONTRACTOR SHALL REVIEW MECHANICAL PLANS TO CONFIRM UNIT LOCATIONS AND THAT QUANTITY OF REQUIRED DUCT DETECTORS AND CONTROL RELAYS MATCH THOSE SHOWN ON ELECTRICAL PLANS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST INVOLVED WITH OBTAINING A SEPARATE PERMIT AS REQUIRED BY LOCAL AUTHORITIES FOR INSTALLATION OF THE FIRE ALARM SYSTEM.



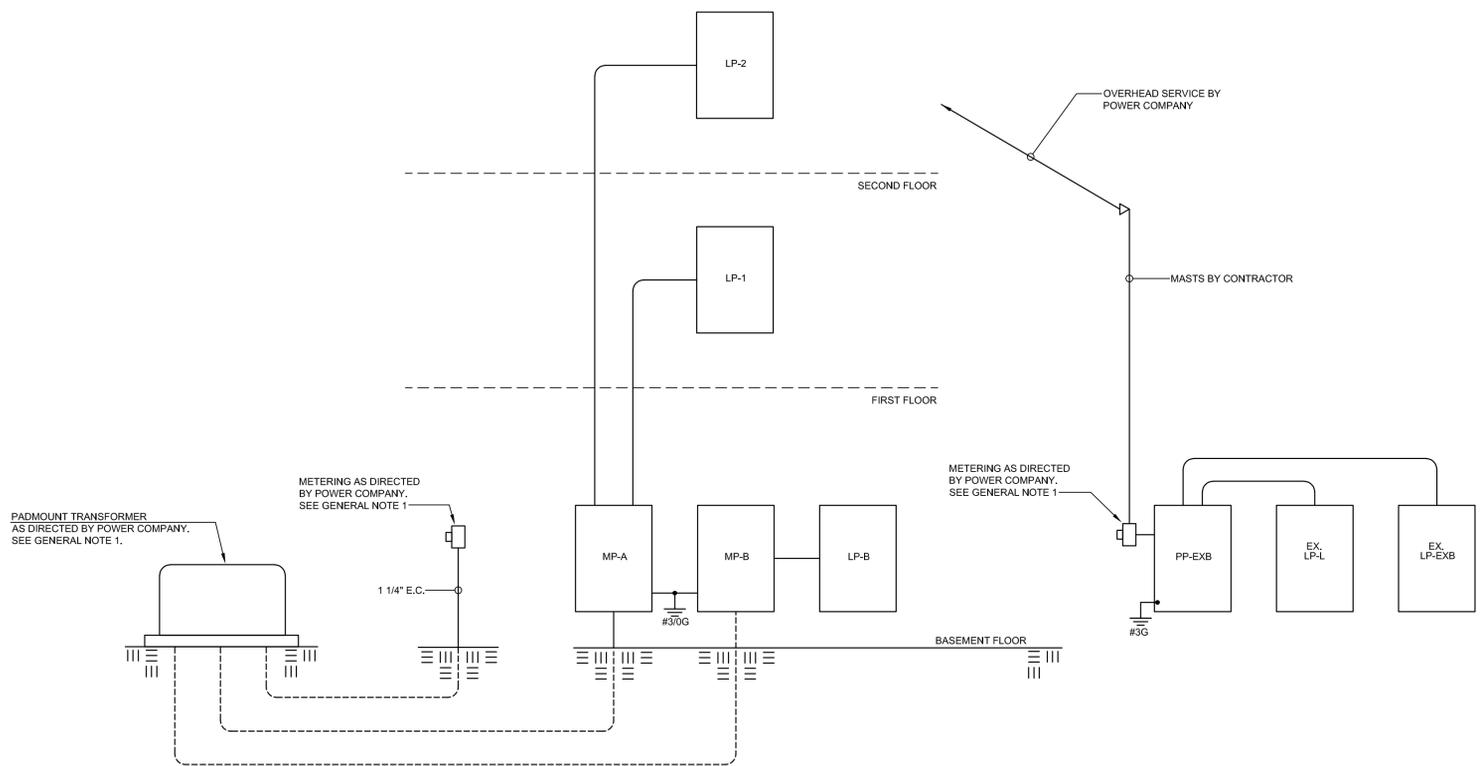
**RESCUE ASSISTANCE SYSTEM
RISER DIAGRAM**
SCALE : NONE



LIGHTING FIXTURE SCHEDULE									
MARK	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMPS			MOUNTING HEIGHT	MOUNTING TYPE	REMARKS
				WATTS	LUMENS	TYPE			
A	LITHONIA WILLIAMS COOPER	2BTL4-30L-ADP-LP835	120/277	23	3,000	LED 3500K	CEILING	RECESSED LAY-IN	
AE	LITHONIA WILLIAMS COOPER	2BTL4-30L-ADP-LP835-EM	120/277	23	3,000	LED 3500K	CEILING	RECESSED LAY-IN	EM
A1	LITHONIA WILLIAMS COOPER	2BLT-40L-ADP-LP835	120/277	31	4,000	LED 3500K	CEILING	RECESSED LAY-IN	
A1E	LITHONIA WILLIAMS COOPER	2BLT-40L-ADP-LP835-EM	120/277	31	4,000	LED 3500K	CEILING	RECESSED LAY-IN	EM
A2	LITHONIA WILLIAMS COOPER	2BLT-48L-ADP-LP835	120/277	39	4,800	LED 3500K	CEILING	RECESSED LAY-IN	
A2E	LITHONIA WILLIAMS COOPER	2BLT-48L-ADP-LP835-EM	120/277	39	4,800	LED 3500K	CEILING	RECESSED LAY-IN	EM
B	LITHONIA WILLIAMS COOPER	2BLT2-20L-ADP-LP835	120/277	16	2,000	LED 3500K	CEILING	RECESSED LAY-IN	
BE	LITHONIA WILLIAMS COOPER	2BLT2-20L-ADP-LP835-EM	120/277	16	2,000	LED 3500K	CEILING	RECESSED LAY-IN	EM
B1	LITHONIA WILLIAMS COOPER	2BLT2-33L-ADP-LP835	120/277	27	3,300	LED 3500K	CEILING	RECESSED LAY-IN	
B1E	LITHONIA WILLIAMS COOPER	2BLT2-33L-ADP-LP835-EM	120/277	27	3,300	LED 3500K	CEILING	RECESSED LAY-IN	EM
C	LITHONIA WILLIAMS COOPER	WL4-40L-LP835	120/277	40	4,000	LED 3500K	CEILING	OUTLET BOX	
CE	LITHONIA WILLIAMS COOPER	WL4-40L-LP835-EM	120/277	40	4,000	LED 3500K	CEILING	OUTLET BOX	EM
D	GOTHAM PORTFOLIO CALCULITE	EVO4-35/07-AR-LSS-MD-GZ1	120/277	8	750	LED 3500K	CEILING	RECESSED	
DE	GOTHAM PORTFOLIO CALCULITE	EVO4-35/07-AR-LSS-MD-GZ1-EM	120/277	8	750	LED 3500K	CEILING	RECESSED	EM
D1	GOTHAM PORTFOLIO CALCULITE	EVO4-35/10-AR-LSS-MD-GZ1	120/277	9	1,000	LED 3500K	CEILING	RECESSED	
D1E	GOTHAM PORTFOLIO CALCULITE	EVO4-35/10-AR-LSS-MD-GZ1-EM	120/277	9	1,000	LED 3500K	CEILING	RECESSED	EM
D2	GOTHAM PORTFOLIO CALCULITE	EVO4-35/20-AR-LSS-MD-GZ1	120/277	14	1,500	LED 3500K	CEILING	RECESSED	
D2E	GOTHAM PORTFOLIO CALCULITE	EVO4-35/20-AR-LSS-MD-GZ1-EM	120/277	14	1,500	LED 3500K	CEILING	RECESSED	EM
D4	GOTHAM PORTFOLIO CALCULITE	EVO4-35/35-AR-LSS-MD-GZ1	120/277	38	3,500	LED 3500K	CEILING	RECESSED	
D4E	GOTHAM PORTFOLIO CALCULITE	EVO4-35/35-AR-LSS-MD-GZ1-EM	120/277	38	3,500	LED 3500K	CEILING	RECESSED	EM
D5	GOTHAM PORTFOLIO CALCULITE	EVO4-35/15-AR-LSS-MD-GZ1	120/277	14	1,500	LED 3500K	CEILING	RECESSED	
D5E	GOTHAM PORTFOLIO CALCULITE	EVO4-35/15-AR-LSS-MD-GZ1-EM	120/277	14	1,500	LED 3500K	CEILING	RECESSED	EM
F	GOTHAM PORTFOLIO CALCULITE	EVO4-40/10-AR-LSS-MD-GZ1	120/277	9	1,000	LED 4000K	CEILING	RECESSED	
FE	GOTHAM PORTFOLIO CALCULITE	EVO4-40/10-AR-LSS-MD-GZ1-EM	120/277	9	1,000	LED 4000K	CEILING	RECESSED	EM
DS	GOTHAM PORTFOLIO CALCULITE	EVO4-11/15-DFR-SOL	120/277	14	1,500	LED 3500K	CEILING	RECESSED	
EL	LITHONIA WILLIAMS COOPER	CSVT-148-3000-40K VAPOR-TIGHT FIXTURE	120	27	3,000	LED 4000K	ELEVATOR PIT	OUTLET BOX	
STE	LITHONIA WILLIAMS COOPER	WL4-40L-LP835-EM	120/277	40	4,000	LED 3500K		SURFACE	EM
WE	LITHONIA WILLIAMS COOPER	WST LED-P1-E7WC	120/277	12	1,500	LED 4000K	AS DIRECTED BY ARCHITECT	OUTLET BOX	EM, FSA
X1	LITHONIA WILLIAMS COOPER	EDG-1-RMR-EL	120/277	FURNISHED BY MANUFACTURER			CEILING OR ABOVE DOOR	OUTLET BOX	EMX
X2	LITHONIA WILLIAMS COOPER	EDG-2-RMR-EL	120/277	FURNISHED BY MANUFACTURER			CEILING OR ABOVE DOOR	OUTLET BOX	EMX

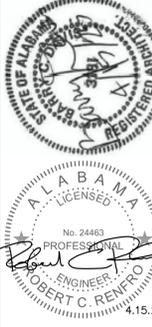
LIGHTING FIXTURE SCHEDULE GENERAL NOTES:
1. CONTRACTOR SHALL COORDINATE ALL FIXTURE MOUNTING PROVISIONS WITH THE ASSOCIATED CEILING TYPE(S) PRIOR TO ORDERING FIXTURES.
2. ALL FIXTURES AND BALLASTS/DRIVERS SHALL BE RATED FOR OPERATION IN AMBIENT TEMPERATURES UP TO 55 DEGREES CELSIUS.

LIGHTING FIXTURE SCHEDULE KEYED NOTES:
EM EMERGENCY FIXTURE. PROVIDE EMERGENCY BATTERY PACK RATED FOR AT LEAST 500 LUMENS.
EMX EMERGENCY FIXTURE. PROVIDE EMERGENCY BATTERY PACK RATED FOR AT LEAST 90 MINUTES OF OPERATION.
FSA PROVIDE FINISH AS SELECTED BY ARCHITECT.



SINGLE LINE DIAGRAM
SCALE: NONE

NOTES THIS SHEET ONLY
1. REFER TO PANEL SCHEDULES FOR FEEDER SIZES.



REVISIONS
DATE: 4/15/2025
PROJECT # 2102
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LIGHTING FIXTURE SCHEDULE & SINGLE LINE

PANELBOARD SCHEDULE - MP-A										
PANEL TYPE: SQUARE 'D' I-LINE SERIES						AIC RATING: 65KAIC (MINIMUM)				
VOLTAGE: 120/208V-3P-4W						MOUNTING: SURFACE				
AMPS & TYPE: 800/3 MAIN BKR						LOCATION: SEE PLANS				
FED FROM: UTILITY						FEEDER: 3 SETS OF 4-300MCM - 3" C				
CIR. NO.	DESCRIPTION	VOLTS	P	HP	KW OR KVA	AMPS	BKR SIZE	LOCAL SAFETY SW RATING	WIRE AND COND. SIZE	REMARKS
1	LP-1	120/208	3		16.0		100/3	-	4#3 & 1#6G - 1 1/2" C	
2	LP-2	120/208	3		17.2		100/3	-	4#3 & 1#6G - 1 1/2" C	
3	ELEVATOR	208	3	40			250/3	400/3 - F200	3#3/0 & 1#3/0G - 2 1/2" C	NOTE 3
4	AHU-6	208	3	1	10.8		50/3	60/3 - F50	3#8 & 1#10G - 1" C	
5	AHU-7	208	3	1/2	7.2		30/3	30/3 - F30	3#8 & 1#10G - 1" C	
6	AHU-8	208	3	3/4	10.8		45/3	60/3 - F45	3#8 & 1#10G - 1" C	
7	AHU-9	208	3	3/4	10.8		45/3	60/3 - F45	3#8 & 1#10G - 1" C	
8	AHU-10	208	3	1	10.8		50/3	60/3 - F50	3#8 & 1#10G - 1" C	
9	AHU-11	208	3	1/2	7.2		30/3	30/3 - F30	3#8 & 1#10G - 1" C	
10	EW-2	208	1		4.5		30/2	30/2	2#10 & 1#10G - 3/4" C	
11	EW-3	208	1		4.5		30/2	30/2	2#10 & 1#10G - 3/4" C	
12	HP-3	208	3			11.1	20/3	30/3 - F20	3#12 & 1#12G - 3/4" C	
13	HP-4	208	3			17.9	35/3	60/3 - F35	3#10 & 1#10G - 3/4" C	
14	HP-7	208	3			11.1	20/3	30/3 - F20	3#12 & 1#12G - 3/4" C	
15	HP-8	208	3			15.3	30/3	30/3 - F30	3#12 & 1#12G - 3/4" C	
16	HP-9	208	3			15.3	30/3	30/3 - F30	3#12 & 1#12G - 3/4" C	
17	SPACE		3				-/3			
18	SPACE		3				-/3			
19	SPACE		3				-/3			
20	SPACE		3				-/3			
TOTAL CONNECTED LOAD:						177.1 KVA	NOTES:			
TOTAL DEMAND LOAD:						491.8 AMPS	1. PROVIDE INTEGRAL 240KA (PER PHASE) SURGE PROTECTION DEVICE.			
TOTAL COMPUTED LOAD:						169.1 KVA	2. PANEL SHALL BE SERVICE-ENTRANCE RATED.			
						469.8 AMPS	3. ELEVATOR BREAKER SHALL BE SHUNT-TRIP WITH AUXILIARY CONTACTS.			
						186.8 KVA				
						518.8 AMPS				

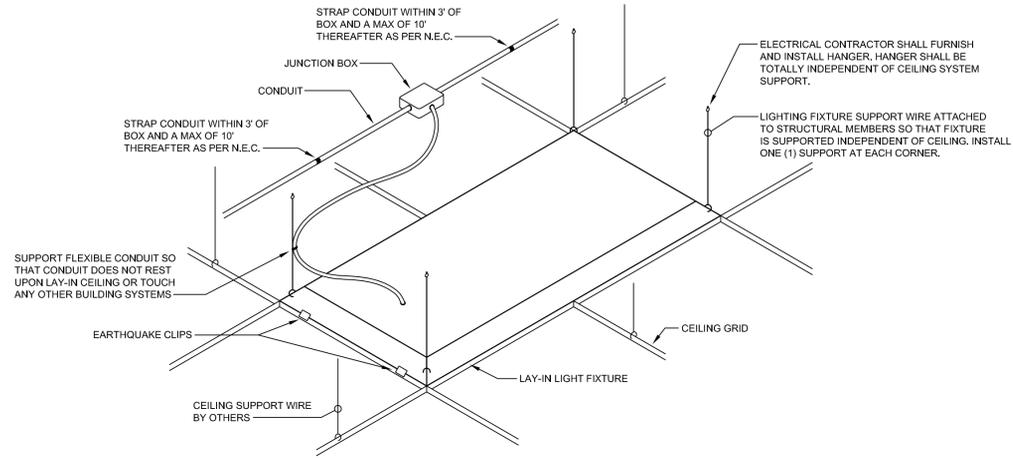
PANELBOARD SCHEDULE - MP-B										
PANEL TYPE: SQUARE 'D' I-LINE SERIES						AIC RATING: 65KAIC (MINIMUM)				
VOLTAGE: 120/208V-3P-4W						MOUNTING: SURFACE				
AMPS & TYPE: 800/3 MAIN BKR						LOCATION: SEE PLANS				
FED FROM: UTILITY						FEEDER: 3 SETS OF 4-300MCM - 3" C				
CIR. NO.	DESCRIPTION	VOLTS	P	HP	KW OR KVA	AMPS	BKR SIZE	LOCAL SAFETY SW RATING	WIRE AND COND. SIZE	REMARKS
1	LP-B	120/208	3		29.1		225/3	-	4#4/0 & 1#4G - 2 1/2" C	
2	AHU-1	208	3	1	10.8		50/3	60/3 - F50	3#8 & 1#10G - 1" C	
3	AHU-2	208	3	1	10.8		50/3	60/3 - F50	3#8 & 1#10G - 1" C	
4	AHU-3	208	3	1/2	7.2		30/3	30/3 - F30	3#10 & 1#10G - 3/4" C	
5	AHU-4	208	3	1	10.8		50/3	60/3 - F50	3#8 & 1#10G - 1" C	
6	AHU-5	208	3	1	10.8		50/3	60/3 - F50	3#8 & 1#10G - 1" C	
7	CU-1	208	3			12.3	25/3	30/3 - F25		
8	CU-2	208	3			12.3	25/3	30/3 - F25	3#12 & 1#12G - 3/4" C	
9	EW-1	208	1		4.5		30/2	30/2	2#10 & 1#10G - 3/4" C	
10	HP-1	208	3			17.9	35/3	60/3 - F35	3#10 & 1#10G - 3/4" C	
11	HP-2	208	3			17.9	35/3	60/3 - F35	3#10 & 1#10G - 3/4" C	
12	HP-5	208	3			17.9	35/3	60/3 - F35	3#10 & 1#10G - 3/4" C	
13	HP-6	208	3			17.9	35/3	60/3 - F35	3#10 & 1#10G - 3/4" C	
14	HP-10	208	3			17.9	35/3	60/3 - F35	3#10 & 1#10G - 3/4" C	
15	HP-11	208	3			11.1	20/3	30/3 - F20	3#12 & 1#12G - 3/4" C	
14	SPACE		3				-/3			
17	SPACE		3				-/3			
18	SPACE		3				-/3			
TOTAL CONNECTED LOAD:						144.6 KVA	NOTES:			
TOTAL DEMAND LOAD:						401.6 AMPS	1. PROVIDE INTEGRAL 240KA (PER PHASE) SURGE PROTECTION DEVICE.			
TOTAL COMPUTED LOAD:						135.4 KVA	2. PANEL SHALL BE SERVICE-ENTRANCE RATED.			
						376.0 AMPS				
						145.0 KVA				
						402.9 AMPS				

PANELBOARD SCHEDULE - PP-EXB										
PANEL TYPE: SQUARE 'D' I-LINE SERIES						AIC RATING: 22KAIC (MINIMUM)				
VOLTAGE: 120/240V-1P-3W						MOUNTING: SURFACE				
AMPS & TYPE: 400/2 MAIN BKR						LOCATION: SEE PLANS				
FED FROM: UTILITY						FEEDER: 2 SETS OF 3#3/0 - 2" C				
CIR. NO.	DESCRIPTION	VOLTS	P	HP	KW OR KVA	AMPS	BKR SIZE	LOCAL SAFETY SW RATING	WIRE AND COND. SIZE	REMARKS
1	EX LP-L	120/240	1			140.0	200/2	-	3#3/0 & 1#6G - 2" C	
2	EX LP-EXB	120/240	1			140.0	200/2	-	3#3/0 & 1#6G - 2" C	
3	SPACE		2				-/2			
4	SPACE		2				-/2			
5	SPACE		2				-/2			
6	SPACE		2				-/2			
7	SPACE		2				-/2			
8	SPACE		2				-/2			
TOTAL CONNECTED LOAD:						64.4 KVA	NOTES:			
TOTAL DEMAND LOAD:						280.0 AMPS	1. PROVIDE INTEGRAL 160KA (PER PHASE) SURGE PROTECTION DEVICE.			
TOTAL COMPUTED LOAD:						64.4 KVA	2. ENCLOSURE SHALL BE NEMA 3R.			
						280.0 AMPS	3. PANEL SHALL BE SERVICE ENTRANCE RATED.			
						64.4 KVA				
						280.0 AMPS				

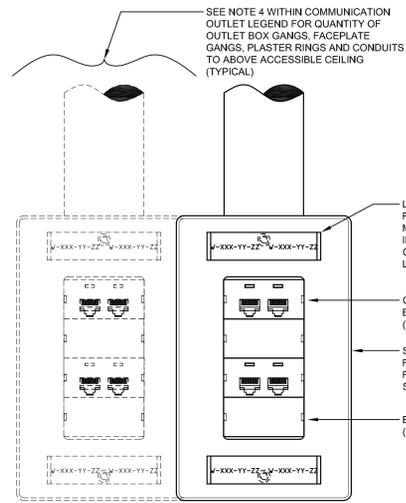
PANELBOARD SCHEDULE - LP-1											
PANEL TYPE: SQUARE 'D' TYPE NQ						AIC RATING: 25KAIC (MINIMUM)					
VOLTAGE: 120/208V-3P-4W						MOUNTING: SURFACE					
AMPS & TYPE: 100 AMP - MLO						LOCATION: SEE PLANS					
FED FROM: MP-A						FEEDER: SEE PANELBOARD SCHEDULE - MP-A					
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.	
1	-	20/1	LIGHTING	1,200	A	500	LIGHTING	20/1	-	22	
2	-	20/1	RECEPTACLES	1,200	B	200	EXTERIOR LIGHTING	20/1	-	23	
3	-	20/1	RECEPTACLES	1,000	C	600	RECEPTACLES	20/1	-	24	
4	-	20/1	RECEPTACLES	1,000	A	500	RAM	20/1	LO	25	
5	-	20/1	RECEPTACLES	1,200	B		SPARE	20/1	-	26	
6	-	20/1	FLOOR BOXES	1,200	C		SPARE	20/1	-	27	
7	-	20/1	RECEPTACLES	600	A	500	FACP	20/1	LO	28	
8	-	20/1	RECEPTACLES	600	B		SPARE	20/1	-	29	
9	-	20/1	SPARE		C		SPARE	20/1	-	30	
10	GFCI	20/1	DRINKING FOUNTAINS	1,500	A			20/1	-	31	
11	-	20/1	RECEPTACLES	800	B			20/1	-	32	
12	-	20/1	RECEPTACLES	1,000	C			20/1	-	33	
13	-	20/1	RECEPTACLES	800	A			20/1	-	34	
14	-	20/1	RECEPTACLES	1,200	B			20/1	-	35	
15	-	20/1	TBB	400	C			20/1	-	36	
16	-	20/1	TBB	400	A			20/1	-	37	
17	-	20/1	TBB	400	B			20/1	-	38	
18	-	20/1	TBB	400	C			20/1	-	39	
19	-	20/1	TBB	400	A			20/1	-	40	
20	-	20/1	TBB	400	B			20/1	-	41	
21	-	20/1	FIRE/SMOKE DAMPERS	100	C			20/1	-	42	
NOTES:						PH. A:	PH. B:	PH. C:	TOTAL CONNECTED LOAD:		
1. PROVIDE INTEGRAL 160KA (PER PHASE) SURGE PROTECTION DEVICE.						7,400	6,000	4,700	18.1 KVA		
2. INDICATED BREAKER(S) SHALL BE GFI-TYPE (5mA TRIP).						TOTAL DEMAND LOAD:					
3. "LO" INDICATES LOCK-ON HARDWARE ON BKR.						50.3 AMPS					
						TOTAL COMPUTED LOAD:					
						43.2 AMPS					
						16.0 KVA					
						44.5 AMPS					

PANELBOARD SCHEDULE - LP-B (SECT. 1)											
PANEL TYPE: SQUARE 'D' TYPE NQ						AIC RATING: 42KAIC (MINIMUM)					
VOLTAGE: 120/208V-3P-4W						MOUNTING: SURFACE					
AMPS & TYPE: 225 AMP - MLO						LOCATION: SEE PLANS					
FED FROM: MP-B						FEEDER: SEE PANELBOARD SCHEDULE - MP-B					
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.	
1	-	20/1	LIGHTING	1,450	A	1,000	RECEPTACLES	20/1	-	16	
2	-	20/1	LIGHTING	1,450	B	800	RECEPTACLES	20/1	-	17	
3	-	20/1	RECEPTACLES	1,400	C	1,000	RECEPTACLES	20/1	-	18	
4	-	20/1	RECEPTACLES	1,000	A	1,400	RECEPTACLES	20/1	-	19	
5	-	20/1	RECEPTACLES	1,200	B	1,200	RECEPTACLES	20/1	-	20	
6	-	20/1	KITCHEN OUTLET	1,500	C	1,200	RECEPTACLES	20/1	-	21	
7	-	20/1	KITCHEN OUTLET	1,500	A	1,200	RECEPTACLES	20/1	-	22	
8	-	20/1	KITCHEN OUTLET	1,500	B	1,200	RECEPTACLES	20/1	-	23	
9	GFCI	20/1	REFRIGERATOR	1,200	C	600	RECEPTACLES	20/1	-	24	
10	-	20/1	RECEPTACLES	1,000	A	1,200	RECEPTACLES	20/1	-	25	
11	GFCI	20/1	DRINKING FOUNTAINS	1,500	B	1,500	SUMP PUMP	20/1	GFCI	26	
12	-	20/1	RECEPTACLES	1,200	C	500	ELEVATOR PIT LIGHTS	20/1	-	27	
13	-	20/1	RECEPTACLES	1,000	A	400	ELEVATOR PIT RECEPTACLE	20/1	-	28	
14	-	20/1	RECEPTACLES	800	B	200	EXTERIOR LIGHTING	20/1	-	29	
15	-	20/1	FLOOR BOXES	1,200	C	100	ELEVATOR ROOMLIGHT	20/1	-	30	
LP-B (SECT. 2)											
31	-	20/1	LIGHTING	800	A			20/1	-	46	
32	-	20/1	LIGHTING	1,000	B			20/1	-	47	
33	-	20/1	ELEVATOR RECEPTACLE	200	C			20/1	-	48	
34	-	20/1	ELEVATOR LIGHTS	1,200	A			20/1	-	49	
35	-	20/1	COPIER	1,000	B			20/1	-	50	
36	-	20/1	RECEPTACLE	200	C			20/1	-	51	
37	-	20/1	FIRE/SMOKE DAMPERS	100	A			20/1	-	52	
38	-	20/1	SPARE		B			20/1	-	53	
39	-	20/1	SPARE		C			20/1	-	54	
40	-	20/1	SPARE		A			20/1	-	55	
41	-	20/1	SPARE		B			20/1	-	56	
42	-	20/1	SPARE		C			20/1	-	57	
43	-	20/1	SPARE		A			20/1	-	58	
44	-	20/1	SPARE		B			20/1	-	59	
45	-	20/1	-		C			20/1	-	60	
NOTES:						PH. A:	PH. B:	PH. C:	TOTAL CONNECTED LOAD:		
1. PROVIDE INTEGRAL 160KA (PER PHASE) SURGE PROTECTION DEVICE.						13,250	13,350	10,300	36.9 KVA		
2. INDICATED BREAKER(S) SHALL BE GFI-TYPE (5mA TRIP).						TOTAL DEMAND LOAD:					
						27.7 KVA					
						TOTAL COMPUTED LOAD:					
						29.1 KVA					
						80.8 AMPS					

PANELBOARD SCHEDULE - LP-2										
PANEL TYPE: SQUARE 'D' TYPE NQ						AIC RATING: 25KAIC (MINIMUM)				
VOLTAGE: 120/208V-3P-4W						MOUNTING: SURFACE				
AMPS & TYPE: 100 AMP - MLO						LOCATION: SEE PLANS				
FED FROM: MP-A						FEEDER: SEE PANELBOARD SCHEDULE - MP-A				
CKT. NO.	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT. NO.
1	-	20/1	LIGHTING	1,450	A		SPARE	20/1	-	22
2	-	20/1	LIGHTING	1,550	B			20/1	-	23
3	-	20/1	RECEPTACLES	1,200	C			20/1	-	24
4	-	20/1	RECEPTACLES	1,200	A			20/1	-	25
5	-	20/1	RECEPTACLES	600	B			20/1	-	26
6	-	20/1	KITCHEN RECEPTACLE	1,500	C					



DETAIL "E-FS"
LAY-IN FIXTURE SUPPORT
SCALE : NONE



COMMUNICATION OUTLET ELEVATION

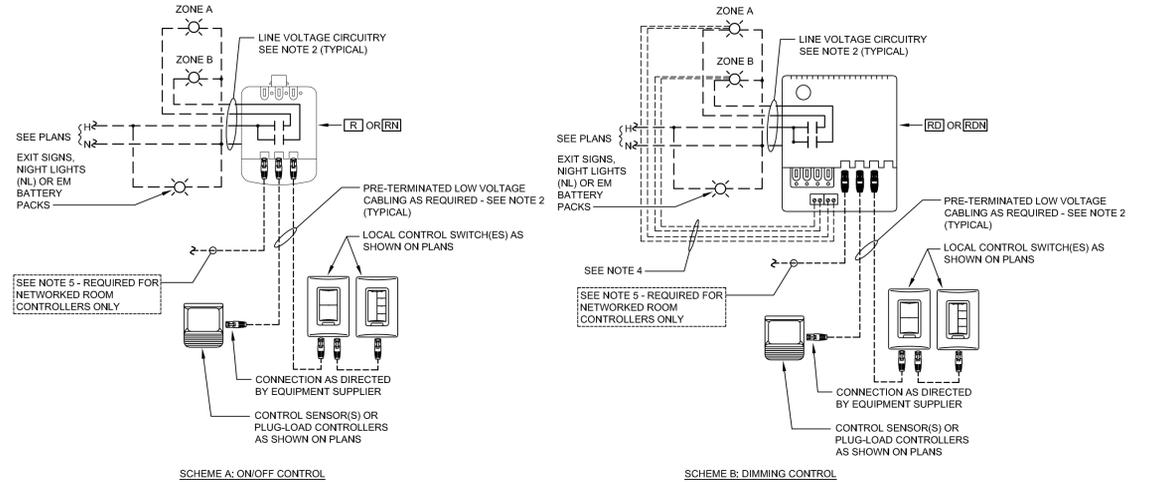
DETAIL "E-CO"
COMMUNICATION OUTLET
SCALE : NONE



COMMUNICATION JACK/CABLE LABELING SCHEME

COMMUNICATION OUTLET LEGEND				
JACK ID(S) SHOWN ON PLANS	JACK TYPE(S)	ASSOCIATED HOMERUN CABLING FROM JACK (SEE NOTE 3 BELOW)	HOMERUN CABLING TO (UNLESS SHOWN OTHERWISE ON PLANS)	REMARKS
*C	*F" CONNECTOR TELEVISION JACK(S)	RG-6/U COAXIAL CABLE(S)	NEAREST CATV SYSTEM DIRECTIONAL COUPLER OR FRONT-END EQUIPMENT AS DIR. BY SUPPLIER	
*D	RJ45 DATA JACK(S)	CAT6 DATA CABLE(S).	NEAREST DATA PATCH PANEL	
*H	IF CABLE LENGTH < 35': PASSIVE HDMI JACK(S) IF CABLE LENGTH > 35': ACTIVE HDMI JACK(S) - RAPID RUN OPTICAL TRANSMITTER PLATE OR EQUAL	SEE *HD BELOW FOR CABLE REQUIREMENTS.	ASSOCIATED LOW VOLTAGE *H" OUTLET AT DISPLAY LOCATION (TV/PROJECTOR/ETC.)	SEE NOTE 8 BELOW
*HD	IF CABLE LENGTH < 35': PASSIVE HDMI JACK(S) IF CABLE LENGTH > 35': ACTIVE HDMI JACK(S) - RAPID RUN OPTICAL RECEIVER OR EQUAL - PROVIDE CONCEALED L.V. POWER FROM ADJACENT 120V RECEPTACLE	4K HDMI CABLE RAPID RUN OPTICAL PLENUM RUNNER OR EQUAL	ASSOCIATED LOW VOLTAGE *H" OUTLET AT SOURCE LOCATION (WALL/FLOOR/TABLE)	SEE NOTES 8 & 9 BELOW
*V	RJ45 VOICE JACK(S)	CAT6 VOICE CABLE(S).	NEAREST TELEPHONE PATCH PANEL/BACKBOARD	
1VW	ONE (1) RJ45 VOICE JACK - FOR WALL MOUNT PHONE	ONE (1) CAT6 VOICE CABLE.	NEAREST TELEPHONE PATCH PANEL/BACKBOARD	SEE NOTE 6 BELOW

- NOTES:
- THE ASTERISK "*" WITHIN THE JACK ID SECTION ABOVE REPRESENT THE QUANTITIES OF EACH JACK/CABLE TYPE. FOR EXAMPLE, "3D" REPRESENTS THREE (3) DATA JACKS/CABLES.
 - THE JACK IDENTIFIERS SHOWN ABOVE MAY BE COMBINED TOGETHER ON PLANS. FOR EXAMPLE, THE IDENTIFIER "1V2D1C" REPRESENTS ONE (1) VOICE JACK/CABLE, TWO (2) DATA JACKS/CABLES AND ONE (1) COAXIAL TV JACK/CABLE. OUTLETS MAY CONSIST OF ANY COMBINATION OF THE ABOVE JACK TYPES.
 - ALL LOW VOLTAGE CABLING SHALL BE PLENUM-RATED.
 - THE QUANTITY OF OUTLET BOX GANGS AND CONDUITS FOR EACH COMMUNICATION OUTLET ASSEMBLY SHALL BE AS FOLLOWS:
1-2 JACKS: 1-GANG OUTLET BOX WITH 1-GANG FACEPLATE AND ONE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
3-4 JACKS: 2-GANG OUTLET BOX WITH 1-GANG PLASTER RING, 1-GANG FACEPLATE AND ONE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
5-8 JACKS: 2-GANG OUTLET BOX WITH 2-GANG FACEPLATE AND TWO 1" CONDUITS TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
9-12 JACKS: 3-GANG OUTLET BOX WITH 3-GANG FACEPLATE AND THREE 1" CONDUITS TO ABOVE ACCESSIBLE CEILING SPACE (AND IN OTHER INACCESSIBLE OR EXPOSED AREAS).
 - PROVIDE A NYLON BUSHING ON EACH END OF EACH CONDUIT (SPECIFIED WITHIN NOTE 4 ABOVE) TO PROTECT CABLES.
 - TYPE "1VW" OUTLETS SHALL BE FURNISHED WITH STAINLESS STEEL WALL-MOUNT TELEPHONE PLATES WITH MOUNTING STUDS AND RECESSED JACKS AND SHALL BE MOUNTED AT 48" A.F.F. UNLESS NOTED OTHERWISE.
 - COMMUNICATION OUTLET SHALL BE LOCATED A MAXIMUM OF 8 INCHES FROM THE ADJACENT POWER OUTLET.
 - ALL AV CABLING TYPES SHALL BE CONFIRMED WITH OWNER PRIOR TO ORDERING MATERIALS.
 - COORDINATE LOCATION OF ALL OUTLETS AT PROJECTOR WITHIN PROJECTOR BASE WHERE POSSIBLE.

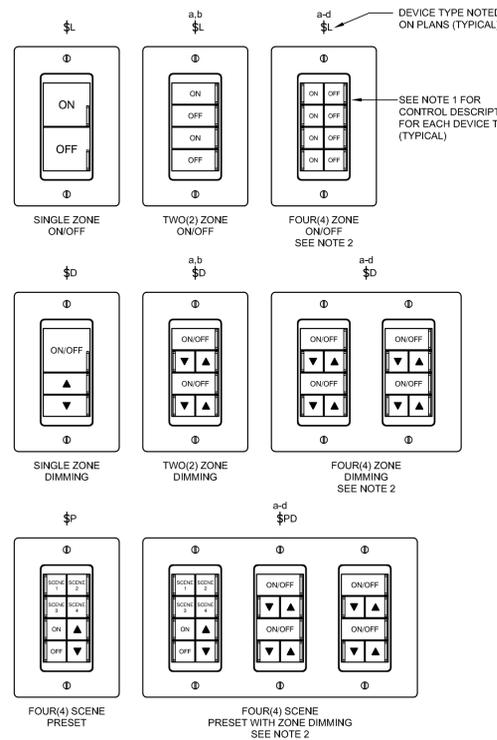


SCHEME A: ON/OFF CONTROL

SCHEME B: DIMMING CONTROL

DETAIL "E-RC"
TYPICAL ROOM DIGITAL LIGHTING CONTROL WIRING DIAGRAM(S)
SCALE : NONE

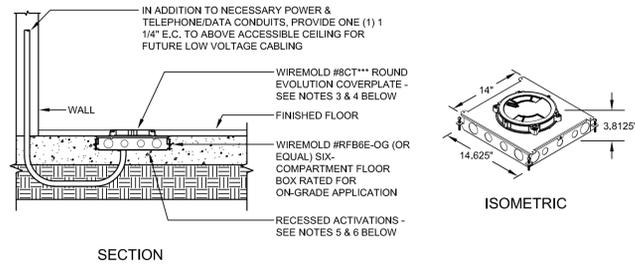
- DIAGRAM NOTES
- DEVICES SHOWN ON THIS DIAGRAM ARE TYPICAL ONLY. EXACT SWITCHING, COMPONENTS, CONNECTIONS, DIMMING TYPE, ETC. WILL VARY. REFER TO PLANS FOR EXACT DEVICES REQUIRED IN EACH SPACE.
 - ALL CIRCUITRY/CABLING SHALL BE CONCEALED. LOW VOLTAGE CABLING MAY BE INSTALLED WITHOUT CONDUIT WHERE ABOVE ACCESSIBLE CEILINGS (IF SUPPORTED EVERY 60" MAXIMUM WITH J-HOOKS). ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT (UNLESS SPECIFICALLY NOTED OTHERWISE) PER SPECIFICATION REQUIREMENTS. FURNISH NUMBER OF ROOM CONTROLLERS/POWER PACKS AS REQUIRED TO ACCOMPLISH INTENT SHOWN ON PLAN.
 - THIS DIAGRAM SHOWS GENERAL WIRING REQUIREMENTS ONLY. CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE CONNECTIONS, LINE VOLTAGE CONNECTIONS, EQUIPMENT, ETC. AS RECOMMENDED BY THE LIGHTING CONTROL SYSTEM PROVIDER AS REQUIRED FOR A FULLY-FUNCTIONAL DIGITAL LIGHTING CONTROL SYSTEM.
 - CONTRACTOR SHALL FURNISH AND INSTALL ALL LOW VOLTAGE CONTROL CABLING OR ADDITIONAL CONDUCTOR(S) FROM 0-10V DIMMING ROOM CONTROLLER(S) TO ALL 0-10V DIMMED LIGHT FIXTURES AS REQUIRED FOR FULL DIMMING CONTROL OF ALL OVERHEAD LIGHTING THROUGHOUT ASSOCIATED SPACE. EXACT CONTROL CABLING WILL VARY DEPENDING ON FIXTURE DIMMING TYPE. MULTI-CONDUCTOR, PLENUM RATED CABLE SHALL BE USED FOR ALL LOW VOLTAGE CABLING.
 - FOR NETWORKED ROOM CONTROLLERS, CONTRACTOR SHALL FURNISH NETWORK CABLING TO ASSOCIATED MASTER LIGHTING CONTROL SYSTEM AS REQUIRED FOR TIME SWEEP-STYLE AUTOMATIC LIGHTING SHUTOFF - PROVIDE ALL ADDITIONAL COMPONENTS SUCH AS NETWORK BRIDGE(S)/GATEWAY(S) AS REQUIRED.
 - WHERE EXHAUST FANS SERVE RESTROOMS AND ARE ON A DIFFERENT CIRCUIT THAN RESTROOM LIGHTING, FURNISH POWER PACK AND ASSOCIATED LOW-VOLTAGE CABLING AS REQUIRED TO CONTROL FAN WITH LIGHTS.



DETAIL "E-LCS"
TYPICAL DIGITAL LIGHTING CONTROL STATION LAYOUT
SCALE : NONE

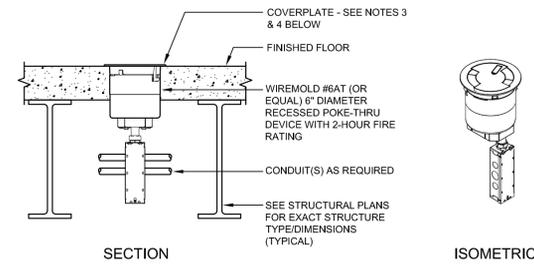
- DIAGRAM NOTES
- ON/OFF CONTROLS SHALL INCLUDE ON/OFF CONTROL FOR EACH ZONE. DIMMING CONTROLS SHALL INCLUDE ON/OFF AND RAISE/LOWER CONTROLS FOR EACH ZONE. PRESET STATIONS SHALL INCLUDE FOUR(4) SELECTABLE SCENES, MASTER ON/OFF AND MASTER RAISE/LOWER CONTROLS.
 - WHERE MORE THAN FOUR(4) ZONES ARE REQUIRED ON PLANS, FURNISH ADDITIONAL CONTROL STATIONS AS REQUIRED FOR INDEPENDENT CONTROL OF EACH ZONE. ADDITIONAL CONTROL STATIONS SHALL BE GANGED TOGETHER UNDER A SINGLE COVERPLATE. CONTRACTOR SHALL INSTALL OUTLET BOX LARGE ENOUGH TO ACCOMMODATE REQUIRED NUMBER OF CONTROL STATIONS.
 - UNLESS SELECTED OTHERWISE BY THE ARCHITECT DURING THE SUBMITTAL PROCESS, ALL COVERPLATES SHALL MATCH OTHER DEVICE PLATES (TYPICALLY STAINLESS STEEL), AND ALL DEVICES SHALL MATCH OTHER DEVICES (TYPICALLY GRAY). REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
 - REFER TO DETAIL "E-RC" FOR CABLING AND CONNECTION REQUIREMENTS FOR EACH CONTROL STATION.
 - ALL BUTTONS SHALL BE PERMANENTLY ENGRAVED AS SHOWN ON THIS DETAIL. GENERIC BUTTONS WITHOUT DESIGNATIONS NOTED ABOVE ARE NOT ALLOWED. SUBMIT LAYOUT FOR EACH PROPOSED CONTROL STATION FOR REVIEW DURING SUBMITTAL PROCESS. SUBMITTALS WITHOUT THIS INFORMATION WILL BE REJECTED WITHOUT REVIEW.





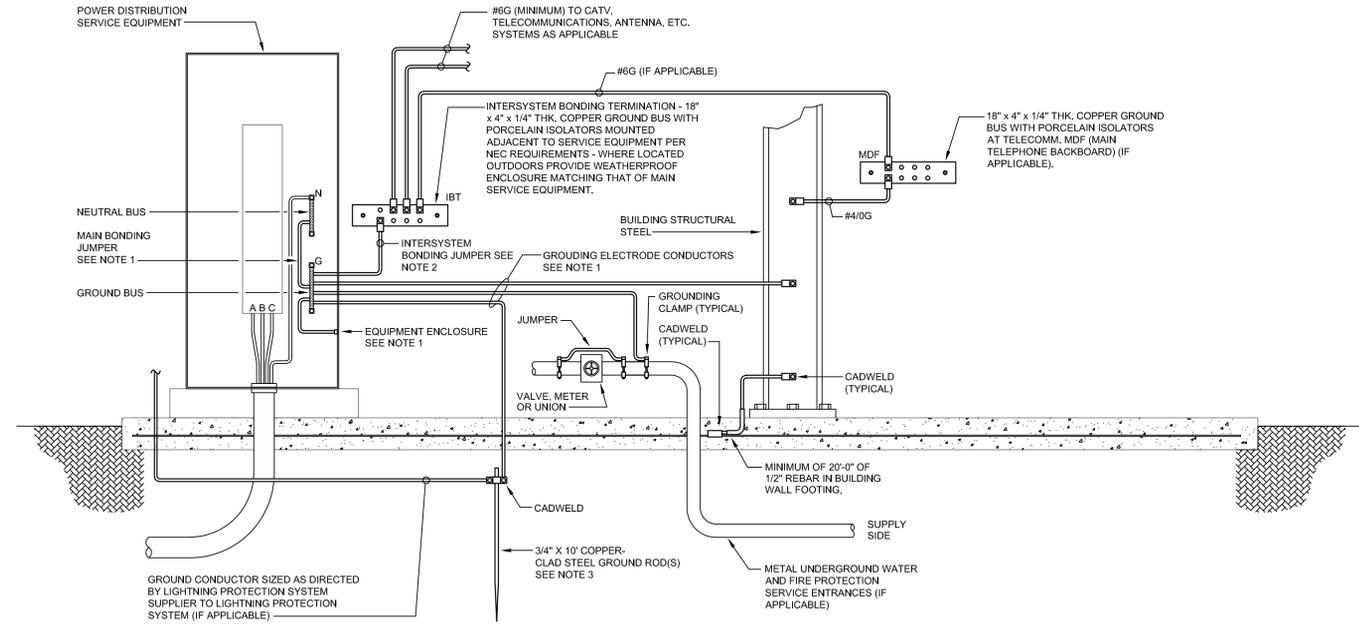
DETAIL "E-FB1"
MULTI-SERVICE FLOOR BOX
(MEDIUM SIZE)
 SCALE : NONE

- DETAIL NOTES**
1. THE EXACT LOCATIONS AND ORIENTATIONS OF ALL FLOOR BOXES SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECT PRIOR TO ROUGH-IN.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PENETRATIONS THROUGH SLABS AND OPENINGS/CONDUITS WITHIN SLABS WITH THE INSTALLER OF THE SLABS PRIOR TO ROUGH-IN.
 3. ALL COVERPLATE MATERIALS/FINISHES SHALL BE AS SELECTED BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE CARPET/TILE CUTOUT INSERTS IN COVERPLATE LID (TO MATCH ADJACENT CARPET/TILE) WHERE LID HAS AN INSERT AREA.
 4. ALL COVER FLANGE OPTIONS SHALL GENERALLY BE AS FOLLOWS, BUT SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW/APPROVAL PRIOR TO ORDERING FLOOR BOXES:
 - a. CARPET AND VCT FLOORING: FLANGED TRIM.
 - b. EXPOSED CONCRETE, WOOD, TILE OR SIMILAR FLOORING (WITH GROUTING): FLANGELESS TRIM.
 5. EACH FLOOR BOX SHALL BE PROVIDED WITH TWO (2) 20A-125V-1P, GROUNDING NEMA 5-20R DUPLEX POWER RECEPTACLES CONNECTED TO THE CIRCUITS INDICATED ON THE PLANS, UNLESS NOTED OTHERWISE.
 6. EACH FLOOR BOX SHALL BE PROVIDED WITH COMMUNICATION JACKS AND ASSOCIATED LOW VOLTAGE CABLING AS INDICATED BY "1V2D" OR SIMILAR NOTATIONS ON PLANS. CONTRACTOR SHALL REFER TO THE COMMUNICATION OUTLET LEGEND AT DETAIL "E-CO" FOR A DESCRIPTION OF ALL ASSOCIATED JACK & CABLE TYPES.



DETAIL "E-PT2"
MULTI-SERVICE POKE-THRU
(MEDIUM SIZE)
 SCALE : NONE

- DETAIL NOTES**
1. THE EXACT LOCATIONS OF ALL POKE-THRUS SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECT PRIOR TO ROUGH-IN.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PENETRATIONS THROUGH SLABS AND OPENINGS/CONDUITS WITHIN SLABS WITH THE INSTALLER OF THE SLABS PRIOR TO ROUGH-IN.
 3. ALL COVERPLATE MATERIALS/FINISHES SHALL BE AS SELECTED BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE CARPET/TILE CUTOUT INSERTS IN COVERPLATE LID (TO MATCH ADJACENT CARPET/TILE) WHERE LID HAS AN INSERT AREA.
 4. ALL COVER FLANGE OPTIONS SHALL GENERALLY BE AS FOLLOWS, BUT SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW/APPROVAL PRIOR TO ORDERING POKE-THRUS:
 - a. CARPET AND VCT FLOORING: FLANGED TRIM.
 - b. TILE OR SIMILAR FLOORING (WITH GROUTING): FLANGELESS TRIM.
 5. EACH POKE-THRU SHALL BE PROVIDED WITH TWO (2) 20A-125V-1P, GROUNDING NEMA 5-20R DUPLEX POWER RECEPTACLES CONNECTED TO THE CIRCUITS INDICATED ON THE PLANS, UNLESS NOTED OTHERWISE.
 6. EACH POKE-THRU SHALL BE PROVIDED WITH COMMUNICATION JACKS AND ASSOCIATED LOW VOLTAGE CABLING AS INDICATED BY "1V2D" OR SIMILAR NOTATIONS ON PLANS. CONTRACTOR SHALL REFER TO THE COMMUNICATION OUTLET LEGEND AT DETAIL "E-CO" FOR A DESCRIPTION OF ALL ASSOCIATED JACK & CABLE TYPES.



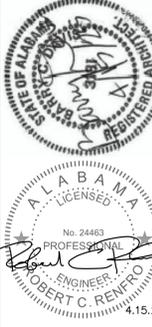
DETAIL "E-MSG"
MAIN SERVICE GROUNDING
 SCALE : NONE

- DETAIL NOTES**
1. ALL GROUNDING ELECTRODE CONDUCTORS AND MAIN BONDING JUMPERS SHALL BE INSULATED COPPER, SIZED IN ACCORDANCE WITH NEC TABLE 250.66 UNLESS NOTED OTHERWISE.
 2. THE INTERSYSTEM BONDING JUMPER SHALL BE INSULATED COPPER, SIZED TO MATCH THE GROUNDING ELECTRODE CONDUCTOR OR #6AWG, WHICHEVER IS GREATER.
 3. ADDITIONAL GROUND RODS SHALL BE INSTALLED A MINIMUM OF SIX (6) FEET APART AND CONNECTED BY GROUNDING ELECTRODE CONDUCTORS UNTIL THE GROUND RESISTANCE DOES NOT EXCEED FIVE (5) OHMS.
 4. ALL GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT (TYPE PER SPECIFICATION REQUIREMENTS) UNLESS SPECIFICALLY NOTED OTHERWISE. METAL CONDUITS SHALL BE GROUNDED PER NEC REQUIREMENTS.
 5. REFER TO "GROUNDING" SPECIFICATIONS SECTION FOR ADDITIONAL GROUNDING REQUIREMENTS.

NAME:	RP-A
RATING:	120/208V-3Ø-4W
FED FROM:	PP-A CIR. 4 (IN MAIN ELEC. ROOM)

DETAIL "E-EDL" ELECTRICAL
DISTRIBUTION EQUIPMENT LABEL
 SCALE : NONE

- DETAIL NOTES**
1. PANEL NAMES & RATINGS LISTED ABOVE ARE FOR EXAMPLE PURPOSES ONLY. NAMES & RATINGS SHALL BE ADJUSTED TO MATCH ASSOCIATED EQUIPMENT.
 2. THE INTENT OF THIS DETAIL IS TO DEMONSTRATE GENERAL ELECTRICAL IDENTIFICATION REQUIREMENTS FOR ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT. REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS REGARDING LOCATIONS, CONTENT, MATERIALS, ETC..



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HEFLIN POLICE STATION
 850 ROSS STREET
 HEFLIN, ALABAMA

REVISIONS
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 PROJECT # 2102
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E4.6
 GENERAL ELECTRICAL NOTES & LEGEND

GENERAL ELECTRICAL NOTES

- CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR POWER AND TELEPHONE SERVICES WITH UTILITY COMPANY PRIOR TO SUBMITTING BID. IF THEIR REQUIREMENTS ARE AT A VARIANCE WITH THOSE SHOWN ON PLANS THE CONTRACTOR SHALL INFORM ARCHITECT IMMEDIATELY. ALL COSTS INCURRED WITH THE UTILITY COMPANY FOR SERVICE SHALL BE INCLUDED IN BID PRICE. IF SUCH COSTS ARE NOT AVAILABLE AT BID TIME CONTRACTOR SHALL INCLUDE WITH BID A LETTER FROM A RESPONSIBLE PARTY WITH THE UTILITY COMPANY STATING SUCH, AND COSTS WILL THEN BE EXCLUDED FROM THE BID PRICE.
- THIS CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR NECESSARY TO EXTEND CIRCUITS AND MAKE RECONNECTIONS TO ANY ACTIVE ELECTRICAL DEVICES ON WHICH THE BRANCH CIRCUIT IS INTERRUPTED BY THIS ALTERATION. CARE SHALL BE TAKEN TO INSURE THAT EXISTING PANEL AND FEEDER RATINGS ARE NOT EXCEEDED.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH NEC.
- CONTRACTOR SHALL VISIT THE SITE OF THE WORK PRIOR TO SUBMITTING BID TO EXAMINE CAREFULLY LOCAL CONDITIONS AND DIFFICULTIES TO BE ENCOUNTERED. ANY DISCREPANCY BETWEEN PLANS AND EXISTING CONDITIONS SHALL IMMEDIATELY BE CALLED TO THE ATTENTION OF THE ARCHITECT.
- THIS CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT FROM MANUFACTURER'S RECOMMENDATIONS PRIOR TO ROUGHING IN CONDUIT OR ORDERING CIRCUIT PROTECTION DEVICES. CONTRACTOR SHALL ADJUST CONDUIT SIZE, WIRE SIZE AND CIRCUIT PROTECTION SIZE ACCORDINGLY. IF REQUIREMENTS ARE LARGER THAN CALLED FOR ON ELECTRICAL PLANS NOTIFY ARCHITECT IMMEDIATELY.
- THESE PLANS GENERALLY INDICATE A DEDICATED HOMERUN FOR EACH CIRCUIT. CONTRACTOR MAY COMBINE CONTIGUOUS 20A-10 CIRCUITS WITHIN COMMON HOMERUN CONDUITS (WHERE MC CABLING IS NOT USED) BUT SHALL NOT ROUTE MORE THAN THREE (3) CIRCUITS TOGETHER AND NO MORE THAN SIX (6) CURRENT CARRYING CONDUCTORS IN THE SAME CONDUIT. CONDUCTORS SHALL BE COLOR CODED PER N.E.C. STANDARDS. PROVIDE DEDICATED NEUTRAL FOR EACH SINGLE PHASE CIRCUIT.
- THIS CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR NECESSARY TO ACCOMPLISH THE FOLLOWING IN REGARD TO THE ELEVATOR SYSTEM:
 - VERIFY ALL POWER REQUIREMENTS WITH ELEVATOR SHOP DRAWINGS PRIOR TO ORDERING OR INSTALLING ANY MATERIAL RELATED TO THE ELEVATOR. NOTIFY ARCHITECT IMMEDIATELY IF REQUIREMENTS ARE DIFFERENT THAN INDICATED ON PLANS.
 - INSTALL NECESSARY AUXILIARY CONTROL RELAYS IN ELEVATOR DISCONNECT SWITCHES AS REQUIRED.
 - INSTALL SMOKE DETECTORS AT EACH ELEVATOR LOBBY, ELEVATOR MACHINE ROOM, TOP OF ELEVATOR SHAFT AND BOTTOM OF ELEVATOR SHAFT. INSTALL NECESSARY CONTROL RELAYS FOR ELEVATOR RECALL FUNCTIONS.
 - IF ELEVATOR SHAFT OR MACHINE ROOM IS SPRINKLED, INSTALL HEAT DETECTOR ADJACENT TO EACH SPRINKLER HEAD IN ELEVATOR SHAFT AND MACHINE ROOM. INSTALL SHUNT-TRIP BREAKER FOR FEEDER TO ELEVATOR CONTROLLER AND CONNECT HEAT DETECTORS TO TRIP SHUNT-TRIP BREAKERS PRIOR TO ACTIVATION OF SPRINKLER HEADS. MONITOR SHUNT-TRIP CONTROL CIRCUIT FOR OPERATING VOLTAGE.
 - IF ELEVATOR IS CONNECTED TO STANDBY POWER SOURCE, PROVIDE CONNECTIONS TO ASSOCIATED AUTOMATIC TRANSFER SWITCH AS DIRECTED BY SUPPLIER TO INCLUDE BUT NOT LIMITED TO PRE-TRANSFER SIGNAL AND EMERGENCY POWER OPERATION SIGNAL.

GENERAL ELECTRICAL LEGEND

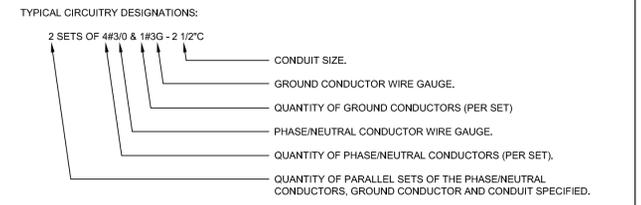
NORMAL	EMERGENCY	RA	RESCUE ASSISTANCE SYSTEM - CALL STATION - SEE RESCUE ASSISTANCE RISER DIAGRAM.
		RAM	RESCUE ASSISTANCE SYSTEM - MASTER STATION - FLUSH MOUNTED UNLESS NOTED OTHERWISE - SEE RESCUE ASSISTANCE RISER DIAGRAM.
		FACP	FIRE ALARM - CONTROL PANEL.
		FAFP	FIRE ALARM - ANNUNCIATOR PANEL - FLUSH MOUNTED UNLESS INDICATED OTHERWISE - VERIFY EXACT LOCATION WITH LOCAL FIRE MARSHAL PRIOR TO ROUGH-IN.
		SM	FIRE ALARM - SMOKE DETECTOR.
		H	FIRE ALARM - HEAT DETECTOR.
		EL	FIRE ALARM - ADDRESSABLE CONTROL RELAY(S) - FOR ELEVATOR CAR RETURN - QUANTITY OF RELAYS AS REQUIRED BY ELEVATOR SUPPLIER - PROVIDE INTERLOCK WIRING TO ELEVATOR CONTROLLER AS REQUIRED IN 34"C.
		FR	FIRE ALARM - ADDRESSABLE MODULE FOR ACCESS CONTROL INTERFACE
		F	FIRE ALARM - FULL STATION.
		V OR V	FIRE ALARM - COMBINATION HORN AND VISUAL INDICATOR - CEILING OR WALL MOUNTED AS INDICATED.
		V OR V	FIRE ALARM - VISUAL INDICATOR ONLY - CEILING OR WALL MOUNTED AS INDICATED.
		SM	FIRE ALARM - SMOKE DETECTOR - DUCT MOUNTED - LOCATE AS DIRECTED BY MECHANICAL - FURNISH CONTROL RELAY COMPATIBLE WITH FIRE ALARM SYSTEM FOR FAN SHUT DOWN - FURNISH TEST/ALARM INDICATOR STATION(S) LOCATED IN ACCESSIBLE, INCONSPICUOUS LOCATION AS APPROVED BY AUTHORITY HAVING JURISDICTION.
		FD	FIRE ALARM - FIRE/SMOKE DAMPER (BY MECHANICAL) WITH DUCT-MOUNTED SMOKE DETECTOR (BY FIRE ALARM SUPPLIER) LOCATED AS DIRECTED BY MECHANICAL - FURNISH RELAY COMPATIBLE WITH FIRE ALARM SYSTEM AS DIRECTED BY MECHANICAL FOR CONTROL OF DAMPER - PROVIDE 120V POWER AS REQUIRED.
			BRANCH/FEEDER CIRCUIT - CONCEALED IN WALLS OR CEILING.
			BRANCH/FEEDER CIRCUIT - EXPOSED ON WALLS OR CEILING.
			BRANCH/FEEDER CIRCUIT - CONCEALED IN FLOOR SLAB OR DIRT FILL.
			BRANCH/FEEDER CIRCUIT - HOMERUN - CAN BE USED WITH OTHER BRANCH/FEEDER TYPES.
			BRANCH/FEEDER CIRCUIT MODIFIERS: --- : 2#12 & #12G UNLESS NOTED OTHERWISE. --- : 3#12 & #12G, ETC. UNLESS NOTED OTHERWISE (TICK MARKS INDICATE CONDUCTOR QUANTITY NOT INCLUDING GROUND WIRE). --- 10 --- : 2#10 & #10G UNLESS NOTED OTHERWISE (NUMBER INDICATES WIRE AWG).
			SIZE CONDUIT PER N.E.C. UNLESS INDICATED OTHERWISE.
			OVERHEAD PRIMARY POWER SERVICE CABLING (WITH TELECOMMUNICATIONS CABLING WHERE APPLICABLE).
			OVERHEAD SECONDARY POWER SERVICE CABLING (WITH TELECOMMUNICATIONS CABLING WHERE APPLICABLE).
			UNDERGROUND PRIMARY POWER SERVICE - PROVIDE CONDUITS (QUANTITIES, SIZES, TYPES & INSTALLATION) AS DIRECTED BY UTILITY COMPANY) TO POINT AS DIRECTED BY UTILITY CO. - WHERE SO REQUIRED BY UTILITY CO., PROVIDE PULLBOXES (QUANTITIES, LOCATION, TYPES & INSTALLATION) AS PER UTILITY CO. REQUIREMENTS - COORDINATE LOCATION(S) & EXACT REQUIREMENTS WITH UTILITY CO. PRIOR TO BID AND INCLUDE ALL COSTS IN BID.
			UNDERGROUND SECONDARY POWER SERVICE - SEE ASSOCIATED SINGLE LINE DIAGRAM - VERIFY EXACT SERVICE TRANSFORMER LOCATION(S) WITH UTILITY CO. PRIOR TO BID AND INCLUDE ALL COSTS IN BID.
			BRANCH CIRCUIT - RISER DOWN OR GENERAL CONDUIT STUB-OUT.
			FLEXIBLE CONNECTION TO EQUIPMENT.
		OUTLET INSTALLATION DESIGNATIONS (APPLY TO ALL OUTLETS, DEVICES & EQUIPMENT):	
		A	ABOVE COUNTER - OUTLET SHALL BE MOUNTED 6 INCHES ABOVE DESK/COUNTERTOP, OR 4 INCHES ABOVE COUNTERTOP BACKSPLASH AS REQUIRED BY CONDITION, OR 48" A.F.F. OR AS NOTED.
		C	OUTLET MOUNTED FLUSH WITHIN CEILING - VERIFY EXACT LOCATIONS PRIOR TO ROUGH-IN.
		CPR	OUTLET MOUNTED TO INDUSTRIAL CORD REEL - HUBBELL HBL45123R20 INDUSTRIAL CORD REEL (AT STRUCTURE ABOVE) WITH 12/3 SJOE PENDANT CABLE (45" MINIMUM) TO OUTLET BOX (AT END OF CABLE) WITH RECEPTACLE TYPE (GFCI, ETC.) AS INDICATED ON PLANS.
		CW	INSTALL OUTLET WITHIN CASEWORK AND ROUTE CIRCUITRY (IN CONDUIT) WITHIN CASEWORK AS DIRECTED BY CASEWORK PROVIDER.
		E	EMERGENCY CIRCUIT - PROVIDE RED DEVICE - MAINTAIN SEPARATION BETWEEN NORMAL AND EMERGENCY CIRCUITRY (WITH SEPARATE CONDUITS AND METAL BARRIERS AS REQUIRED) PER NEC ARTICLE 700.10(B).
		GFR	CONNECT ASSOCIATED OUTLET DOWNSTREAM OF REMOTE, RECESSED FACELESS GFI DEVICE - DEVICE AND FACEPLATE FINISH SHALL MATCH ASSOCIATED OUTLET - LOCATE GFI DEVICE AS INCONSPICUOUSLY AS POSSIBLE IN READILY ACCESSIBLE LOCATION ADJACENT TO ASSOCIATED EQUIPMENT.
		VL	VERIFY EXACT OUTLET LOCATION WITH OWNER PRIOR TO ROUGH-IN.
		W	WEATHER PROOF - OUTLET SHALL BE INSTALLED WITH WEATHERPROOF, EXTRA-DUTY, IN-USE, CAST COVER.
		WG	WIREGUARD - EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH FACTORY FURNISHED WIREGUARD.
		CP	CARD READER POWER SUPPLY - 120V - 10.
		CR	CARD READER - 3/4"E.C. TO ABOVE ACCESSIBLE CEILING.
			DOOR BELL SYSTEM - PUSH BUTTON - LOW VOLTAGE - SEE DOOR BELL SYSTEM CONNECTION DIAGRAM - EDWARDS OR EQUAL - FINISH AS SELECTED BY ARCHITECT.
			DOOR BELL SYSTEM - BUZZER - 24VAC - MOUNT AT 8'-0" A.F.F. - VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN - SEE DOOR BELL SYSTEM CONNECTION DIAGRAM - EDWARDS #340-4GS.
		T	LOW VOLTAGE TRANSFORMER - 120V-10 PRIMARY - 24VAC SECONDARY - MOUNT IN NEMA 1 ENCLOSURE ABOVE CEILING - WITH PRIMARY & SECONDARY FUSING AS REQUIRED - VA RATING AS REQUIRED - SEE DOOR BELL SYSTEM CONNECTION DIAGRAM.

- GENERAL ELECTRICAL LEGEND**
- OUTLET INSTALLATION DESIGNATIONS (APPLY TO ALL OUTLETS, DEVICES & EQUIPMENT):
- COP COPYING MACHINE OUTLET.
 - DF DRINKING FOUNTAIN OUTLET - EXACT MOUNTING HEIGHT AS DIRECTED BY EQUIPMENT SUPPLIER.
 - DR DRYER OUTLET - MOUNT AT 36" A.F.F. UNLESS DIRECTED OTHERWISE BY EQUIPMENT SUPPLIER.
 - DW BELOW COUNTER DISHWASHER OUTLET - VERIFY EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT SUPPLIER.
 - GD GARBAGE DISPOSAL OUTLET - VERIFY EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT SUPPLIER - PROVIDE TOGGLE-TYPE CONTROL SWITCH (IN CAST BOX) IN ACCESSIBLE LOCATION IN BASE CABINET BELOW SINK UNLESS SHOWN OTHERWISE.
 - HD VENTILATION HOOD OUTLET.
 - MW MICROWAVE (OR COMBINATION MICROWAVE/VENTILATION HOOD) OUTLET - VERIFY EXACT LOCATION WITH ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN.
 - RF REFRIGERATOR/FREEZER OUTLET - MOUNT AT 36" A.F.F. UNLESS DIRECTED OTHERWISE BY EQUIPMENT SUPPLIER.
 - TV TELEVISION OUTLET - MOUNTING HEIGHT AS DIRECTED BY ARCHITECT.
 - V VENDING MACHINE OUTLET - MOUNT AT 36" A.F.F. UNLESS DIRECTED OTHERWISE BY EQUIPMENT SUPPLIER.
 - WM WASHING MACHINE OUTLET - MOUNT AT 36" A.F.F. UNLESS DIRECTED OTHERWISE BY EQUIPMENT SUPPLIER.

DETAIL DESIGNATOR - "A" INDICATED DETAIL MARK - "E-1" INDICATED SHEET NUMBER WHERE DETAIL IS LOCATED (TYPICAL).

- GENERAL ABBREVIATIONS:**
- EX EXISTING TO REMAIN.
 - XR EXISTING TO BE REMOVED - REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND WIRING CONNECTIONS TO OTHER ELECTRICAL ITEMS UNLESS SHOWN OTHERWISE.
 - XRL EXISTING TO BE RELOCATED - REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND WIRING AT EXISTING LOCATION. RELOCATE ITEM TO NEW LOCATION SHOWN ON ELECTRICAL PLANS. EXTEND AND RECONNECT EXISTING CONDUIT, WIRING, ETC. TO NEW LOCATION AS REQUIRED UNLESS SHOWN OTHERWISE.
 - XRP EXISTING TO BE REPLACED - EXTEND AND RECONNECT EXISTING CONDUIT AND WIRING TO REPLACED ITEM.

- ELECTRICAL ABBREVIATIONS:**
- | | | | |
|------|---|-------|---|
| A | AMPERES. | NSV | NEW, SPARE OR VACATED. |
| AIC | AMPERES INTERRUPTING CAPACITY. | OC | ON CENTER. |
| AFF | ABOVE FINISHED FLOOR. | P | POLES. |
| AL | ALUMINUM. | PF | POWER FACTOR. |
| ATS | AUTOMATIC TRANSFER SWITCH. | Ø | Ø PHASE. |
| AWG | AMERICAN WIRE GAUGE. | PVC | POLYVINYL CHLORIDE. |
| C | CONDUIT. | SLD | SINGLE LINE DIAGRAM. |
| CU | COPPER. | SS | STAINLESS STEEL. |
| EC | EMPTY CONDUIT, OR ELECTRICAL CONTRACTOR | UL | UNDERWRITERS LABORATORY. |
| FPN | FUSE PER NAMEPLATE. | UNO | UNLESS NOTED OTHERWISE. |
| G | GROUND CONDUCTOR. | V | VOLTS. |
| KVA | KILOVOLT-AMPERES. | W | WIRES. |
| KW | KILOWATT. | GFCI | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. |
| LV | LOW VOLTAGE. | OFCOI | CONTRACTOR FURNISHED, OWNER INSTALLED. |
| MCM | THOUSAND CIRCULAR MILS. | OFOI | OWNER FURNISHED, CONTRACTOR INSTALLED. |
| MV | MEDIUM VOLTAGE. | N | NEUTRAL. |
| N | NEUTRAL. | NEMA | NATIONAL ELECTRICAL CODE. |
| NEC | NATIONAL ELECTRICAL CODE. | NEMA | NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION. |
| NEMA | NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION. | NIC | NOT IN CONTRACT. |
| NIC | NOT IN CONTRACT. | OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED. |



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