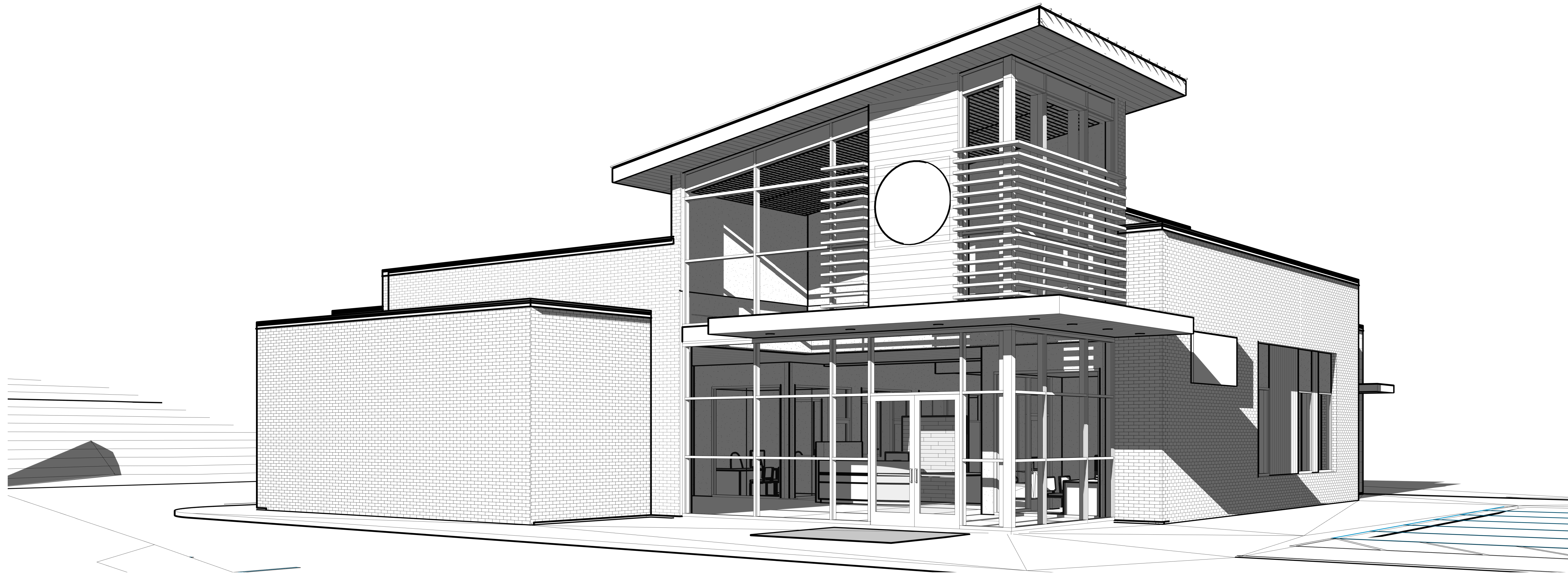


LATINO COMMUNITY CREDIT UNION

9521 CHAPEL HILL RD. MORRISVILLE, NC 27560

400 S. Tryon Street, Suite 1300
Charlotte, NC 28285
704-376-6423
labellapc.com



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LCCU - Morrisville Site Adapt
9521 Chapel Hill RD. Morrisville, NC 27560

INDEX TO DRAWINGS

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NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: BAW

REVIEWED BY: GGA

ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NAME:

ARCHITECTURAL COVER SHEET

DRAWING NUMBER:

G001

ARCHITECTURAL ABBREVIATIONS

A	Area Anchor Bolt Above Access Acoustical ACR: ACST: ACT: AD: ADH: ADJ: AFF: AGGR: ALT: ALUM: ANOD: AP: APPROX: ATC:	Area General Contractor Glass Block Acrylic Acoustic Acoustical Tile Access Door Adhesive Adjust, Adjustable, Adjacent Above Finished Floor Aggregate Alternate Aluminum Anodized Access Panel Approximate Acoustical Tile Ceiling	G	Gauge, Gage Galvanized General Contractor Glass GL BLK: GRND: GRTG: GVL: GYP: GYP BD:	Handicapped (better called "Accessible") Hardware Hardwood Height Hollow Metal Horizontal Hour Hardwood	H	HDCP: HDW: HDWD: HGT: HM: HORIZ: HR: HWD:	Handicapped (better called "Accessible") Hardware Hardwood Height Hollow Metal Horizontal Hour Hardwood	I	ID: IN: INCL: INFO: INSTL: INSUL: INT: INTERM:	Inside Diameter Inch Include Information Install Insulation Interior Intermediate	J	JAN: JC: JT:	Janitor Janitor's Closet Joint	L	LAB: LAV: LB: LBL: LINO: LNTL:	Laboratory, Labor Lavatory Pound (weight) Label Linoleum Lintel	M	MAINT: MAN: MAR: MARB: MAS: MAT: MATL: MAX: MECH: MEMB: MFD: MFG: MFR: MI: MIKE: MIN: MIR: MISC: MK: ML&P: MLD: MLDG: MM: MMB: MO: MOD: MONO: MOV: MP: MPS: MR: MRD: MT: MTD: MTL: MTR: MUL: MULL: MVP: MWP: MWK:	Maintenance Manual Marble Marble Masonry Material Material Maximum Mechanical Membrane Manufactured Manufacturer, Manufacturing Manufacturer, Manufacturer Malleable Iron, Miles Microphone Minimum Mirror Miscellaneous Mark Metal Lath & Plaster Molding Molding Millimeter Membrane Masonry Opening Module Monolithic Movable Diffuser Medium Pressure Steam Mop Receptor Metal Roof Deck Mount, Mounted Mounted Material, Metal Motor Mullion Mullion Mercury Vapor Maximum Working Pressure Milwork	N	N: NAP: NAT: NATL: NB: NC: NEC: NEUT: NF: NFWH: NL: NIC: NK: NMT: NO: NOM: NR: NRC: NTS:	North, Nitrogen Napkin Natural Natural "Nota Bene" Latin phrase for "Take Special Note" Normally Closed, Noise Criteria National Electrical Code Neutral Near Face Non-freeze Wall Hydrant Nickel Not In Contract Neck Non-Metallic Number, Normally Open Nominal Noise Reduction Noise Reduction Coefficient Not To Scale	O	OB: OBS: OC: OD: OF: OFF: OH: OHD: OPNG: OPP: OPP H: OSCI:	Obscure Obscure On Center Outside Diameter Outside Face Office Overhead Overhead Door Opening Opposite Opposite Hand Owner Supplied, Contractor Installed	P	P. LAM: PAR: PBD: PERIM: PERP: PL: PLBG: PLYWD: PLUMB: PR: PREFAB: PRES: PRESS: PRMLD: PRTN: PSF: PSI: PT: PTD: PTD/R: PTN:	Plastic Laminate Parallel Particle Board Perimeter Perpendicular Plate Plumbing Plywood Plumbing Pair Prefabricated Pressure Pressure Premolded Partition Pounds per square foot Pounds per square inch PAINT Painted, Paper Towel Dispenser Combination Paper Towel Dispenser/Receptacle Partition	Q	QUAL: QT: QTY:	Quality Quarry Tile, Quart Quantity	R	RB: RCP: RD: REBAR: REF: REFL: REFR: REIN: REQD: RESIL: RF: RGH: RHO OPNG: RHO: RT:	Rubber Base Reflected Ceiling Plan Roof Drain, Round, Receptacle Distribution Panel Reinforcing Bar Refer, Reference, Refrigerator Reflected, Refrigerate, Refrigerator Reinforcement, or Reinforce Required Resilient Roof Rough Rough Opening Rough Opening Rubber Tile	S	SALV: SCHED: SF: SHT: SPEC: SPECG: SQ: SS: STC: STD: STL: STOR: STRT: STRUC: STRUCT: SUR: SUSP:	Salvage Schedule Square Foot Shower Sheet Specification, Specifications Specifications Square Stainless Steel Sound Transmission Class Standard Steel Storage Straight Structural Structural Surface Suspended, Suspend	T	T&B: T&G: TB: TD: TERR: THK: THRU: TLT: TPD: TPH: TPTN: TYP: TZ:	Top and Bottom Tongue & Groove Towel Bar Trench Terrazzo Thick, Thickness Through Toilet Toilet paper Dispenser Toilet Paper Holder Toilet Partition Typical Terrazzo	U	UNFIN: UNO: UNP: UP: UR:	Unfinished Unless Noted Otherwise Unless Otherwise Noted Unpainted Urinal	V	VAT: VBC: VCT: VERT: VEST: VIF: VT: VTR: VWC:	Vinyl Asbestos Tile Vinyl Base (Covered) Vinyl Composition Tile Vertical Vestibule Verify in the Field Vinyl Tile Vent Through Roof Vinyl Wall Covering	W	W: W/O: WAINS: WC: WD:	With Without Wainscot Watercloset Wood
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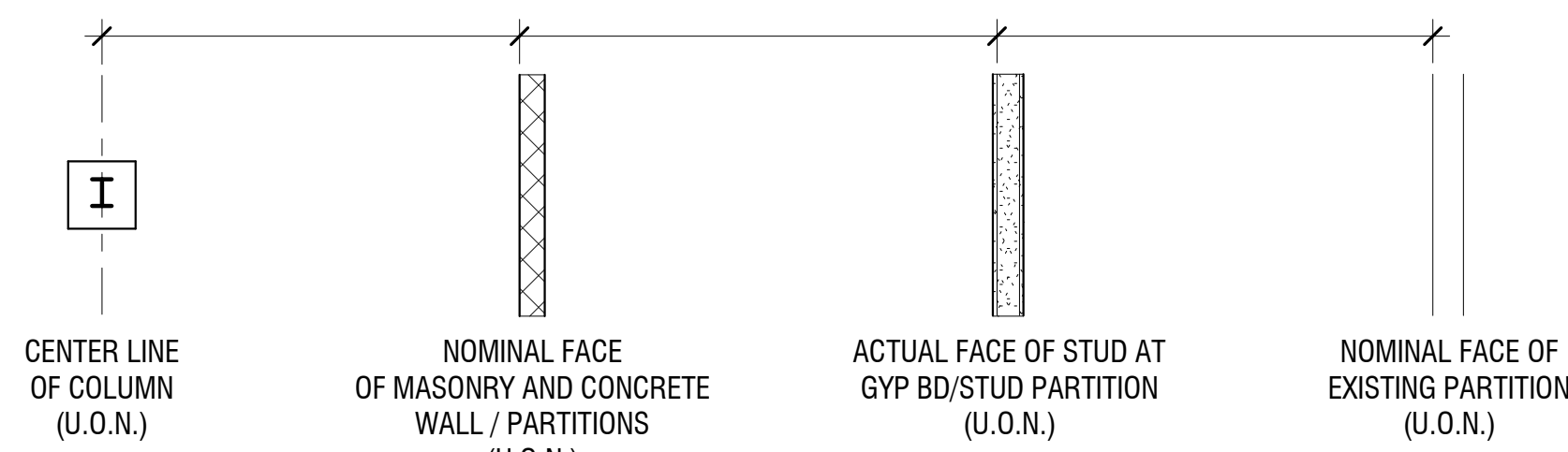
MATERIAL SYMBOLS

	CONCRETE MASONRY UNITS (CMU)		WOOD (FINISHED)		RIGID INSULATION
	CONCRETE		WOOD (ROUGH)		BATT. OR LOOSE INSULATION
	BRICK		WOOD (BLOCKING)		EARTH
	CEMENT, SAND, GROUT, PLASTER, OR GYPSUM WALL BOARD		PARTICLE BOARD		CARPET
	STEEL		PLYWOOD		STONE, GRAVEL, OR POROUS FILL

ARCHITECTURAL DRAWINGS SYMBOLS

	MATCH LINE		BUILDING SECTIONS
	ELEVATION LINE		WALL SECTIONS
	COLUMN LINE REFERENCES		DETAIL SECTIONS
	DOOR TAGS		EXTERIOR ELEVATIONS
	ROOM TAG		INTERIOR ELEVATIONS
	WINDOW TAG/LOUVER TAG		DETAIL CALL OUTS
	STOREFRONT/CURTAIN WALL TAG		REVISION SYMBOL AND CLOUD
	WALL TYPE		
	PLAN/ELEVATION KEYNOTE		
	FINISH KEYNOTE		

TYPICAL PLAN DIMENSIONING



LINE TYPES

	VISIBLE ITEMS
	CENTER LINE OR COLUMN GRID
	HIDDEN OR NOT IN CONTRACT
	BREAK LINE
	OVERHEAD

WALL / PARTITION DESIGNATIONS

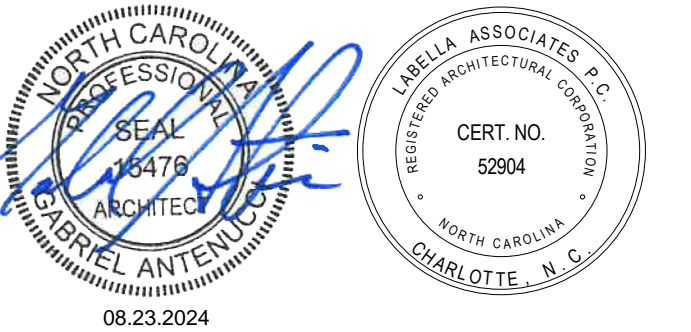
	BRICK FACE
	C.M.U. WALL / PARTITION - SEE PARTITION TYPES
	METAL STUD PARTITION - SEE PARTITION TYPES
	EXISTING WALL CONSTRUCTION

GENERAL ARCHITECTURAL NOTES

- CONSTRUCTION SHALL CONFORM TO THE "NORTH CAROLINA STATE UNIFORM FIRE PROTECTION AND BUILDING CODE", LATEST REVISION, THE NORTH CAROLINA STATE ENERGY CODE AND ANY OTHER CODES GOVERNED BY THE JURISDICTION IN WHICH THE PROJECT IS BEING CONSTRUCTED.
- ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD-VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF WORK. **CONTRACTOR SHALL NOT SCALE THE DRAWINGS.**
- CONTRACTORS ARE RESPONSIBLE FOR ALL MATERIALS, CONSTRUCTION METHODS AND CRAFTSMANSHIP.
- CONTRACTORS ARE TO VERIFY ALL EXISTING CONDITIONS, REQUIREMENTS, NOTES, CODES AND DIMENSIONS, PRIOR TO THE START OF CONSTRUCTION AND SHALL NOTIFY THE ARCHITECT, IN WRITING, IF CONDITIONS VARY FROM THOSE SHOWN ON THE DOCUMENTS.
- CONTRACTORS ARE RESPONSIBLE FOR COORDINATING WORK WITH OTHER TRADES WHEREVER THEY OVERLAP. THOROUGHLY COORDINATE WORK AND DETERMINE EXACT ROUTE AND LOCATION OF UTILITIES, MATERIALS AND EQUIPMENT BEFORE FABRICATION AND INSTALLATION. NOTIFY THE ARCHITECT/ENGINEER IN WRITING IF FIELD CONDITIONS VARY FROM THOSE SHOWN ON THE DOCUMENTS.
- PROVIDE ALL BLOCKING, FURRING AND SHIMMING FOR INSTALLATION AND COMPLETION OF WORK, INCLUDING BLOCKING FOR CASEWORK, EQUIPMENT, AND TOILET ACCESSORIES.
- ALL WORK SHALL BE PLUMB, LEVEL AND SQUARE. SCRIBE AND MAKE FIT ALL NEW TO NEW.
- PROVIDE CONCEALED BLOCKING IN ALL STUD PARTITIONS AND WALLS BEHIND SURFACE FOR SEMI-RECESSED, FULLY RECESSED OR SURFACE MOUNTED ACCESSORIES AND MILLWORK.
- CONTRACTOR SHALL FIELD VERIFY FINISHED DIMENSIONS AND CLEARANCES IN SPACES INDICATED TO RECEIVE BUILT-IN FURNISHINGS OR CASEWORK PRIOR TO FABRICATION.
- FINISHED DOOR OPENINGS SHALL BE NOMINAL 6" FROM FINISHED CORNER OF ROOM EXCEPT WHERE DIMENSIONED OTHERWISE.
- SEALANT SHALL BE PROVIDED AT THE INTERIOR AND EXTERIOR PERIMETER OF ALL WINDOWS, DOOR FRAMES, LOUVERS OR OTHER ITEMS INSERTED IN AN EXTERIOR WALL.
- SUSPENDED GRID CEILINGS SHALL BE ARRANGED SO THAT A GRID IS SPACED EQUALLY FROM EACH MOST REMOTE WALL, IN EACH DIRECTION, WITH NO TILES LESS THAN 6" UNLESS OTHERWISE INDICATED.
- WOOD USED FOR BLOCKING OR OTHER PURPOSES ON OR ABOVE THE ROOF DECK, WITHIN 2'-0" OF GRADE AND IN OTHER LOCATIONS OUTSIDE THE BUILDING ENVELOPE WHERE EXPOSED TO THE WEATHER SHALL BE PRESSURE TREATED LUMBER OR PLYWOOD.
- INSTALL ALL WORK AS INDICATED AND VERIFY EXACT LOCATION AND ELEVATIONS ON THE JOB.
- DO NOT SCALE DRAWINGS. REFER TO DIMENSIONS AND SPECIFIED MATERIALS. CONTACT THE ARCHITECT IF ADDITIONAL DIMENSIONS ARE REQUIRED.
- COORDINATE ALL DOOR HARDWARE, TRIM AND FINISHES TO MEET INTENT AND COMPLIANCE.
- VERIFY ALL DIMENSIONS BEFORE ORDERING MATERIAL OR DOING WORK. NO EXTRA COMPENSATION OR CHARGES WILL BE ACCEPTED DUE TO DIFFERENCES BETWEEN THE ACTUAL MEASUREMENTS AND MEASUREMENTS INDICATED ON THE DRAWINGS.
- ALL DETAILS ARE SUBJECT TO CHANGE DUE TO EXISTING FIELD CONDITIONS. CONTRACTOR MUST NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES.
- CONTRACTORS ARE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS ASSOCIATED WITH THE WORK OF THEIR CONTRACT.
- SECURITY, WEATHERPROOFING, DUST CONTROL AND SAFETY SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PERFORM CLEAN UP OF ALL REFUSE, RUBBISH, SCRAP MATERIALS AND DEBRIS CAUSED BY THE WORK ON A DAILY BASIS.
- G.C. TO ENSURE ALL TRADES RECEIVE A FULL SET OF DRAWINGS FOR PROPER COORDINATION BETWEEN ALL TRADES.
- ALL FURNITURE, EQUIPMENT, LOOSE SHELVING AND APPLIANCES TO BE FURNISHED AND INSTALLED BY OWNER. SHOWN FOR REFERENCE ONLY.



400 S. Tryon Street, Suite 1300
Charlotte, NC 28285
704-376-6423
labellapp.com



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LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER:	2230150
DRAWN BY:	BAW
REVIEWED BY:	GGA
ISSUED FOR:	BID SET
DATE:	08.23.2024
DRAWING NAME:	

NOTES, SYMBOLS & ABBREVIATIONS

DRAWING NUMBER:

G002

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: LCCU - Morrisville
Address: 9521 Chapel Hill RD, Morrisville, NC
Owner/Authorized Agent: Elna Claro Phone # 919.595.1733 E-Mail elna@latinoccu.org
Owned By: City/County Private State
Code Enforcement Jurisdiction: City_Raleigh CountyWake State North Carolina

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Labella Associates, P.C.	Gabe Altunucci	15476	704.987.7296	galtunucci@labellappc.com
Civil	Labella Associates, P.C.	James Henderson	16329	704.941.2167	jhenderson@labellappc.com
Electrical	Labella Associates, P.C.	Michael Grose	047719	704.941.2122	mgrose@labellappc.com
Fire Alarm	Labella Associates, P.C.	Michael Grose	047719	704.941.2122	mgrose@labellappc.com
Plumbing	Labella Associates, P.C.	Michael Grose	047719	704.941.2122	mgrose@labellappc.com
Mechanical	Labella Associates, P.C.	Michael Grose	047719	704.941.2122	mgrose@labellappc.com
Sprinkler-Standpipe	Labella Associates, P.C.	Michael Grose	047719	704.941.2122	mgrose@labellappc.com
Structural	Labella Associates, P.C.	Don Hill	040156	704.941.2130	dhill@labellappc.com
Retaining Walls >5' High	Labella Associates, P.C.	Don Hill	040156	704.941.2130	dhill@labellappc.com
Other					

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

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

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

CONSTRUCTED: (date) - CURRENT OCCUPANCY(S) (Ch. 3): -
RENOVATED: (date) - PROPOSED OCCUPANCY(S) (Ch. 3): Business

OCCUPANCY CATEGORY (Table 1604.5): Current: II Proposed: II

BASIC BUILDING DATA

Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B

Sprinklers: No Partial NFPA 13 NFPA 13R NFPA 13D

Standpipes: No Class I II III Wet Dry

Primary Fire District: No Yes Flood Hazard Area: No Yes

Special Inspections Required: No Yes

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ FT)	Renovation (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor	-	-	-	-
2nd Floor	-	-	-	-
Mezzanine	-	-	-	-
1st Floor	-	-	5,021	-
Basement	-	-	-	-
TOTAL	-	-	5,021	-

ALLOWABLE AREA

Primary Occupancy Classification(s):

Assembly A-1 A-2 A-3 A-4 A-5
Business B-1 B-2 B-3 B-4 B-5
Educational E-1 E-2 E-3 E-4 E-5
Factory F-1 Moderate F-2 Low
Hazardous H-1 Detonate H-2 Defflagrate H-3 Combust H-4 Health H-5 HPM
Institutional I-1 I-2 I-3 I-4
I-1 Condition 1 2
I-2 Condition 1 2
I-3 Condition 1 2 3 4 5
Mercantile M-1 M-2
Residential R-1 R-2 R-3 R-4
Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
Utility and Miscellaneous

Accessory Occupancy Classification(s): -
Incidental Uses (Table 509): -
This separation is not exempt as a Non-Separated Use (see exceptions).

Special Uses (Chapter 4 - List Code Sections): -
Special Provisions: (Chapter 5 - List Code Sections): -
Mixed Occupancy: NO Separation: - Exception: -
Select one
Actual Area of Occupancy A (3,428) + Actual Area of Occupancy B (5,338) < 1
- + - + = - < 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4 AREA	(C) AREA FOR FRONTAGE INCREASE 1.5	(D) ALLOWABLE AREA PER STORY OR UNLIMITED 2.3
1	Business	5,105	23,000	-	23,000
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

1 Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
b. Total Building Perimeter = (P)
c. Ratio (F/P) = (F/P)
d. W = Minimum width of public way = (W)

2 Unlimited area applicable under conditions of Section 507.
3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
4 The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
5 Frontage increase is based on the un-sprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	55'-0"	29'-1"	504.3
Building Height in Stories (Table 504.4)	3	1	504.4

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

FIRE PROTECTION REQUIREMENTS

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

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
North	Unprotected, Nonsprinklered	No Limit	-
South	Unprotected, Nonsprinklered	No Limit	-
East	Unprotected, Nonsprinklered	No Limit	-
West	Unprotected, Nonsprinklered	No Limit	-

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes No
Exit Signs: Yes No
Fire Alarm: Yes No
Smoke Detection Systems: Yes No Partial: Duct Detectors
Carbon Monoxide Detection: Yes No
Emergency Generator: Yes No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G101

Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (If not on the site plan) shown on sheet C2.0
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

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

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF ACCESSIBLE SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESS AISLE	132' ACCESS AISLE	5' ACCESS AISLE	
LOT 1	13	29	2	-	-	2
TOTAL	-	-	-	-	-	-

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

SPACE	EXIST'G	WATERCLOSETS			URINALS			WATERURINALS			SHOWERS / TUBS	DRINKING FOUNTAINS
		MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	REGULAR	ACCESSIBLE			
NEW	-	-	-	-	-	-	-	-	-	-	-	-
REQ'D	-	-	-	-	-	-	-	-	-	-	-	-

SPECIAL APPROVALS

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

ENERGY SUMMARY

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

Existing building envelope complies with code: Select one

Exempt Building: Select one Provide code or statutory reference:

Climate Zone: 4

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

THERMAL ENVELOPE (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)
Description of assembly: TPO roofing w/ protection board of R30 rigid of metal deck
U-Value of total assembly: -
R-Value of insulation: R30
Skylights in each assembly: -
U-Value of skylight: -
total square footage of skylights in each assembly: -

Exterior Walls (each assembly)
Description of assembly: Fiber cement siding (& Brick w/ air space), R7.5 rigid, air and moisture barrier, 5/8" glassmat faced ext. sheathing Mtl. stud with R15 batt insulation, 5/8" GWB
U-Value of total assembly: -
R-Value of insulation: R15 + 7.5ci
Openings (windows or doors with glazing)
U-Value of assembly: .45 max
Solar heat gain coefficient: .30
projection factor: -
Door R-Values: R1.3

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

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

Floors slab on grade
Description of assembly: 4" Reinforced concrete with 15 mil vapor barrier over 4" crushed gravel
U-Value of total assembly: -
R-Value of insulation: R15
Horizontal/vertical requirement: 2'-0" horizontal of R-15 rigid insulation
slab heated: -

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(PROVIDE ON SHEET 1 OR 2 OF THE STRUCTURAL SHEETS)**

DESIGN LOADS:

Importance Factors: Wind (IW) -
Snow (IS) -
Seismic (IE) -

Live Loads: Roof - psf
Mezzanine - psf
Floor - psf

Ground Snow Load: - psf

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

SEISMIC DESIGN CATEGORY: B C D

Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) I II III IV
Spectral Response Acceleration S1 S2 S3 S4 S5 S6 S7 S8 S9 S10
Site Classification (ASCE 7) A B C D E F
Data Source Field Test Presumptive Historical Data

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

Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

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

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

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: -
summer dry bulb: -

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

Building heating load: -

Building cooling load: -

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

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

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Select one

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

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



400 S. Tryon Street, Suite 1300
Charlotte, NC 28285
704-376-6423
labellappc.com



LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: BAW
REVIEWED BY: GGA
ISSUED FOR: BID SET
DATE: 08.23.2024
DRAWING NAME:

APPENDIX B

G003

LIFE SAFETY LEGEND

- ACCESSIBLE EMERGENCY EGRESS EXIT
- EXIT LIGHT
- REMOTE POINT
- DOOR EGRESS WIDTH
- FIRE EXTINGUISHER CABINET - FULLY RECESSED
- MAXIMUM DOOR OCCUPANT LOAD
- ACTUAL DOOR OCCUPANT LOAD
- DOOR UNLOCKED DURING BUSINESS HOURS
- PATH OF TRAVEL
- OCCUPANCY LOAD

NOTES:

1. MEANS OF EGRESS ILLUMINATION SHALL COMPLY WITH 1012 OF NCSCB.
2. MEANS OF EGRESS INCLUDING THE EXIT DISCHARGE SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING IS OCCUPIED.
3. MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1-FOOT CANDLE (11 LUX) AT THE WALKING SURFACE. SEE ELECTRICAL.
4. EMERGENCY POWER FOR EGRESS ILLUMINATION SHALL BE PROVIDED FOR A DURATION OF NOT LESS THAN 90 MINUTES.
5. SEE SHEETS G004, G005 AND A401 FOR ACCESSIBLE AND BARRIER FREE DETAILS AND MOUNTING HEIGHTS.
6. FIRE EXTINGUISHERS TO BE PROVIDED ACCORDING TO CODE REQUIREMENTS INCLUDING 2018 NCFC 906.
7. TACTILE SIGNAGE TO BE PROVIDED AS REQUIRED BY CODE, INCLUDING 2018 NCSCB SECTION 1013.4

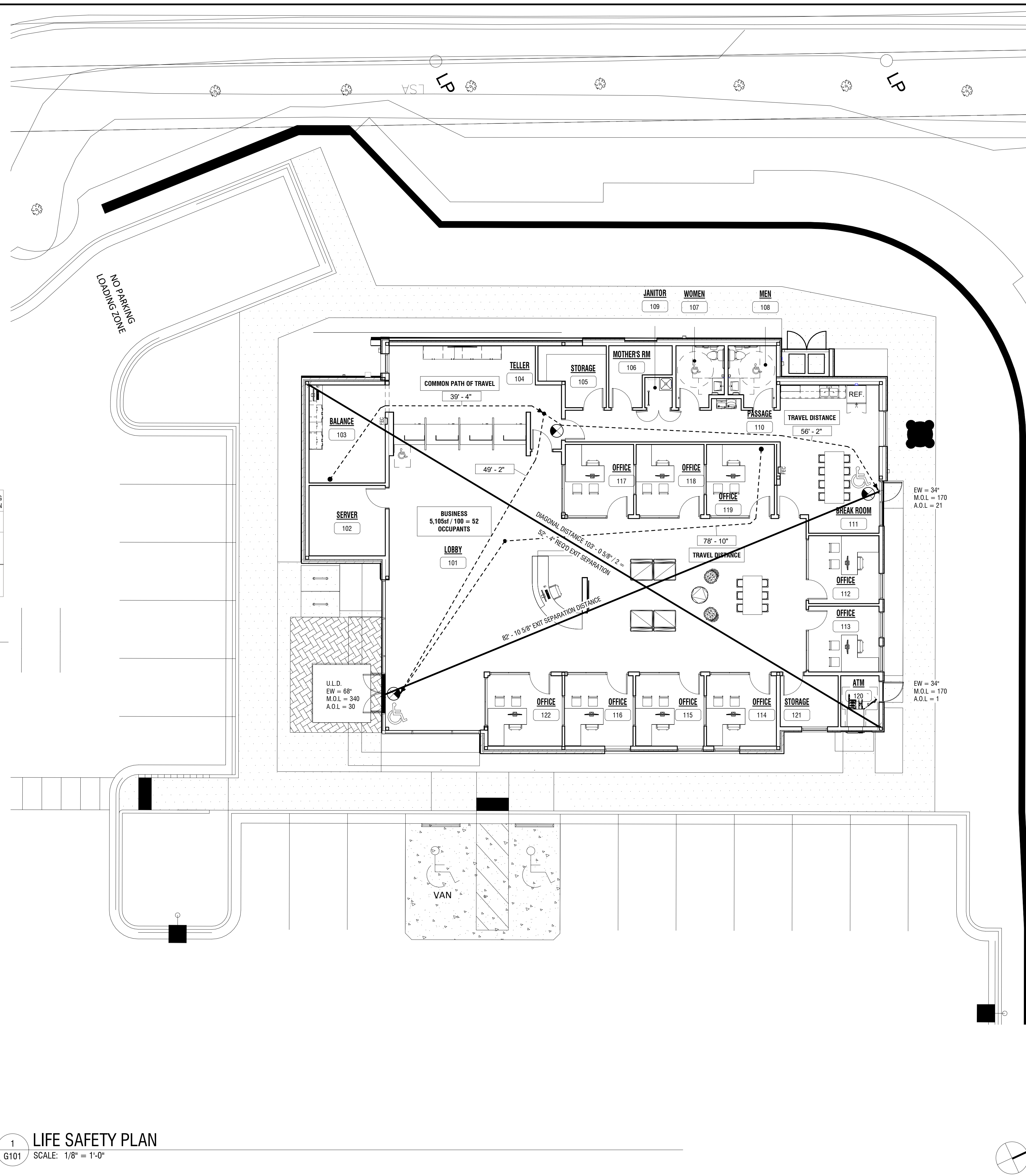
OCCUPANT LOAD	EGRESS COMPONENT FACTOR PER OCCUPANT	STAIRS		DOORS	
		REQUIRED	PROVIDED	REQUIRED	PROVIDED
FIRST FLOOR	52 OCCUPANTS	.3"	N/A	.2"	9.8" 102"

SECTION 1005 MEANS OF EGRESS SIZING : OCCUPANT LOAD x EGRESS COMPONENT FACTOR = REQUIRED EGRESS WIDTH

EGRESS CALCULATIONS

USE	OCCUPANTS		WATER CLOSETS			LAVATORIES			SERVICE SINK	DRINKING FOUNTAIN
	FEMALE	MALE	REQUIRED	MALE	RATIO	PROVIDED	MALE	RATIO		
BUSINESS (B)	26	26	1	1	M / F 1 per 25	1	1	M/F 1 per 40	1	1
TOTAL			2	1	≤	2	1	≤	1	1

PLUMBING CALCULATIONS



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9521 Chapel Hill RD. Morrisville, NC 27560

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Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		BAW
REVIEWED BY:		GGA
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

LIFE SAFETY PLAN

DRAWING NUMBER:

G101

GENERAL STRUCTURAL NOTES:

- BUILDING CODE: NORTH CAROLINA STATE BUILDING CODE, LATEST EDITION
- CONSTRUCTION LOADING: DURING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL LIMIT AND CONTROL CONSTRUCTION LOADING, INCLUDING BUT NOT LIMITED TO:
 - MATERIAL STOCKPILING AND EQUIPMENT TO PRECLUDE OVERSTRESSING, CONSTRUCTION LIVE LOAD IN EXCESS OF 20 PSF, OR DAMAGE TO ANY STRUCTURAL ELEMENT.
- COORDINATION WITH OTHER DISCIPLINES: THE CONTRACTOR SHALL COORDINATE ALL STRUCTURAL WORK WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS.
- EXISTING CONDITIONS: THE INFORMATION SHOWN ON THESE DOCUMENTS IS THE BEST REPRESENTATION OF EXISTING CONDITIONS AVAILABLE TO THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND BRING TO THE ENGINEER'S AND CONSTRUCTION MANAGER'S ATTENTION ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
- EXISTING STRUCTURES: ALL EXISTING STRUCTURES ADJACENT TO NEW WORK ARE TO BE ADEQUATELY PROTECTED AND/OR SUPPORTED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY NEW OR EXISTING CONSTRUCTION DAMAGED WHILE WORK IS IN PROGRESS.
- OPENINGS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SIZE AND LOCATION OF ALL OPENINGS IN NEW AND EXISTING CONSTRUCTION WITH THE DISCIPLINE REQUIRING THEM.

FOUNDATION NOTES:

- (NO GEOTECHNICAL INFORMATION WAS AVAILABLE AT THE TIME OF DESIGN. ASSUMED ALLOWABLE BEARING PRESSURE = 1,500 PSF.)
- TAKE ALL NECESSARY PRECAUTIONS WHEN EXCAVATING OR DRILLING ADJACENT TO EXISTING STRUCTURES TO AVOID DISTURBING EXISTING FOUNDATIONS. DO NOT EXCAVATE BELOW EXISTING FOUNDATIONS. CONTACT THE ENGINEER IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWINGS.
- ALL EXCAVATIONS SHALL FULLY CONFORM TO LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
- DO NOT BACKFILL AGAINST CONCRETE ELEMENTS UNTIL PLACED CONCRETE HAS REACHED 75% OF ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
- BACKFILL BOTH SIDES OF FOUNDATION WALLS IN EQUAL, ALTERNATE LIFTS IN ORDER TO AVOID IMPOSING UNBALANCED LATERAL PRESSURE ON THE WALLS.
- ALLOW TESTING AGENCY TO INSPECT AND APPROVE ALL COMPACTED SUBGRADE AND FILL LAYERS PRIOR TO FURTHER BACKFILL AND/OR PLACEMENT OF CONCRETE. TESTING AND INSPECTION RESULTS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
- THE SUITABILITY AND STABILITY OF EXISTING SOILS AND FILL, THE DEPTHS AND LATERAL LIMITS OF UNSUITABLE MATERIAL TO BE REMOVED, AND ADEQUACY OF FOUNDATION BEARING GRADERS SHALL BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER.
- BACKFILL AND FILL MATERIALS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY ACCORDING TO THE MODIFIED PROCTOR TEST (ASTM D-1557). ALL EXISTING BACKFILL SHALL BE RECOMPACTED AS SUCH.
- EXCAVATION AND BACKFILL OPERATIONS SHALL BE MAINTAINED IN A DRY CONDITION. SURFACE AND INFILTRATING WATER SHALL BE REMOVED BY SITE GRADING AND/OR BY PUMPING FROM PUMPS AS REQUIRED.

CONCRETE NOTES:

- PROVIDE THE FOLLOWING MINIMUM CONCRETE CLEAR COVER FOR REINFORCING STEEL, UNLESS OTHERWISE NOTED:
 - CONCRETE PLACED AGAINST EARTH: 3.0 IN.
 - FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
 - THROUGH #18 BARS: 2.0 IN.
 - #5 BARS AND SMALLER: 1.5 IN.
 - FORMED SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
 - #14 AND #18 BARS: 1.5 IN.
 - #11 BARS AND SMALLER: 1.0 IN.
- ALL CONCRETE WORK, CONSTRUCTION, AND REINFORCING DETAILS SHALL CONFORM TO THE "NORTH CAROLINA STATE BUILDING CODE, LATEST EDITION".
- ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318.
- ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
- ALL REINFORCING SHALL BE LAPPED OR EMBEDDED IN ACCORDANCE WITH ACI 318, UNLESS OTHERWISE NOTED.
- PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING AT CORNERS OR INTERSECTIONS.
- CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE.
- PRIOR TO PLACEMENT OF CONCRETE, A FIELD REPRESENTATIVE SHALL BE INFORMED A MINIMUM OF 24 HOURS IN ADVANCE OF PLACEMENT, TO ALLOW INSPECTION OF REINFORCING STEEL, AND PREPARATION FOR TAKING CONCRETE SAMPLES. INDEPENDENT TESTS ARE REQUIRED FOR ALL CONCRETE PLACEMENTS.
- INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT.
- FURNISH AND INSTALL WATERSTOPS AT ALL HORIZONTAL AND VERTICAL JOINTS IN FOOTINGS AND FOUNDATION WALLS ADJACENT TO EXISTING FOUNDATION WALLS AND FOOTINGS
- W.W.R. SHALL CONFORM TO ASTM A1064 AND SHALL BE FABRICATED INTO FLAT SHEETS.
- VAPOR BARRIER: POLYETHYLENE SHEET, ASTM D 4397, NOT LESS THAN 15-MIL, LOCATED BELOW INTERIOR SLABS-ON-GRADE.
- EPOXY ADHESIVE: HILTI HIT-HY 200 OR SIMPSON SET EPOXY.
- GROUT: NON-METALLIC/NON-SHRINK STRUCTURAL GROUT. FIVE STAR GROUT OR APPROVED EQUAL.
- SYNTHETIC MACRO-FIBER: FIBRILLATED POLYPROPYLENE MICRO-FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE, COMPLYING WITH ASTM C 1116/C 1116M, TYPE III.
- PROTECT CONCRETE FROM PREMATURE DRYING IMMEDIATELY AFTER PLACEMENT. CURING OF CONCRETE SLABS MUST START WITHIN 2 HOURS AFTER FINISHING OPERATIONS ARE COMPLETE. SLABS-ON-GRADE SHALL BE WET CURED FOR 7 DAYS. CURING COMPOUNDS ARE PROHIBITED.
- SLABS-ON-GRADE SHALL HAVE CONTROL JOINTS AS SHOWN ON PLANS. SAW CUT JOINTS SHALL BE MADE WITHIN 12 HOURS OF PLACING SLAB. AFTER CONCRETE IS CURED AND READY FOR PLACEMENT OF FLOOR FINISH, ALL SLABS INSIDE THE BUILDING SHALL HAVE CONTROL JOINTS FILLED WITH APPROVED JOINT FILLER.
- CONCRETE SHALL BE CONTROLLED, PROPORTIONED, MIXED AND PLACED IN THE PRESENCE OF A REPRESENTATIVE OF AN APPROVED TESTING AGENCY.
- CONDUIT OR PIPES SHALL BE PLACED UNDER SLABS-ON-GRADE.
- ALUMINUM CONDUITS OR PIPES SHALL NOT BE PLACED IN CONCRETE.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
 - WIDE FLANGE SHAPES:ASTM A992
 - PLATES, BARS AND ANGLES:ASTM A36
 - HOLLOW STRUCTURAL SECTIONS (HSS) - SQUARE OR RECTANGULAR:.....ASTM A500, GRADE B, Fy = 46 KSI
 - HOLLOW STRUCTURAL SECTIONS (HSS) - ROUND:ASTM A500, GRADE B, Fy = 42 KSI
- BOLTED CONNECTIONS SHALL CONFORM TO THE FOLLOWING:
 - HIGH-STRENGTH BOLTS (AS INDICATED ON PLANS):.....ASTM A325, ASTM A490
- ANCHOR RODS SHALL CONFORM TO THE FOLLOWING:
 - ANCHOR RODS (U.O.N.):.....ASTM F1554, GRADE 36, WELDABLE (S1)
- WELDING ELECTRODES SHALL CONFORM TO THE FOLLOWING:
 - AWS SPECIFICATIONS FOR ELECTRODES BASED ON WELDING PROCESS AND THE TYPE AND GRADE OF STEEL. E70XX ELECTRODES (MIN. J) FOR FILLET WELDS.
- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
- SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE BY WELDING INCLUDING BEAM STIFFENERS, COLUMN CAPS AND BASES, HOLES AND CONNECTIONS.
- FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES UNLESS OTHERWISE NOTED.
- PROVIDE MOMENT AND SHEAR CONNECTIONS AS SHOWN IN THE DRAWINGS. MISC. CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR LOADS SHOWN ON THE PLANS AND SHALL MEET THE CRITERIA SHOWN IN THE TYPICAL DETAILS.
- PROVIDE TEMPORARY BRACING FOR ALL ERECTED STEEL FRAMING UNTIL ALL CONNECTIONS HAVE BEEN FULLY TIGHTENED OR WELDED.
- CUTS, HOLES, COPES, ETC., REQUIRED FOR WORK OF THE OTHER TRADES SHALL BE SHOWN ON SHOP DRAWINGS AND MADE IN THE SHOP. FIELD CUTTING OR BURNING WILL NOT BE PERMITTED.
- ALL WELDING BOTH SHOP AND FIELD SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS. WELDING ELECTRODES SHALL CONFORM TO E70-XX. MINIMUM WELD SIZE SHALL BE 1/4 INCHES (FILLET) UNLESS OTHERWISE NOTED.
- BITUMINOUS COAT ALL STRUCTURAL STEEL LOCATED BELOW GRADE.
- SEE SPECIFICATIONS FOR ALL EXTERIOR MEMBERS, LINTELS, ASSEMBLIES OR COMPONENTS.
- FINISH:
 - PAINTED: SEE SPECIFICATION.
- AFTER ERECTION, ALL DAMAGED AREAS IN THE SHOP COAT AND AT ALL FIELD WELD LOCATIONS, SHALL BE TOUCHED UP WITH THE SAME PAINT USED FOR THE PRIMER AND SHOP COAT. PREPARE SURFACES IN ACCORDANCE WITH SSPC-SP3, FOR PAINTED FINISH, OR IN ACCORDANCE WITH ASTM A780 IF FINISH IS GALVANIZED.
- FABRICATE AND ERECT ALL AESS PER THE REQUIREMENTS SHOWN IN THE SPECIFICATION.

STEEL JOIST AND JOIST GIRDER NOTES:

- WELD JOIST BOTTOM CHORD CONNECTIONS AFTER ROOFING AND OTHER DEAD LOADS HAVE BEEN INSTALLED.
- LOCATE CONCENTRATED LOADS AT PANEL POINTS. PROVIDE ANGLE WEB MEMBERS TO CREATE INTERMEDIATE PANEL POINTS AS SHOWN IN THE DRAWINGS AND TYPICAL DETAILS.
- JOIST AND JOIST GIRDERS SHALL BE LOADED AT PANEL POINTS OR EXTRA WEB MEMBERS SHALL BE ADDED PER DETAILS SHOWN ON TYPICAL DETAILS SHEET FOR CONCENTRATED LOADS NOT APPLIED AT PANEL POINTS. WEB MEMBER SIZES SHALL BE AS INDICATED FOR JOISTS AND SHALL MATCH THE CHORD MEMBER SIZES FOR JOIST GIRDERS.
- MANUFACTURER SHALL DESIGN JOISTS AND JOIST GIRDERS FOR SPECIAL LOADS INDICATED.
- CONTRACTOR SHALL COORDINATE JOIST AND JOIST GIRDER SEAT DEPTHS PROVIDED BY MANUFACTURER WITH BEARING ELEVATIONS SHOWN. SEE TYPICAL BEARING DETAILS. TYPICAL BEARING DETAILS ARE PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE FINAL DESIGN AND LAYOUT OF JOIST AND JOIST GIRDER BEARING DETAILS WITH THE MANUFACTURER AND SHALL SUBMIT SHOP DRAWINGS FOR REVIEW.
- ALL JOIST GIRDER CONNECTIONS SHALL BE DESIGNED FOR THE LOADS SHOWN IN THE DRAWINGS.
- JOIST AND JOIST GIRDER WEB TYPES MAY VARY DEPENDING ON MANUFACTURER. JOIST DETAILS HAVE BEEN DEVELOPED BASED ON ASSUMED WEB TYPES. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW.

STEEL DECK NOTES:

- PROVIDE GALVANIZED STEEL DECK IN ACCORDANCE WITH ASTM A653. GALVANIZED WITH A MINIMUM YIELD STRENGTH OF 33 KSI.

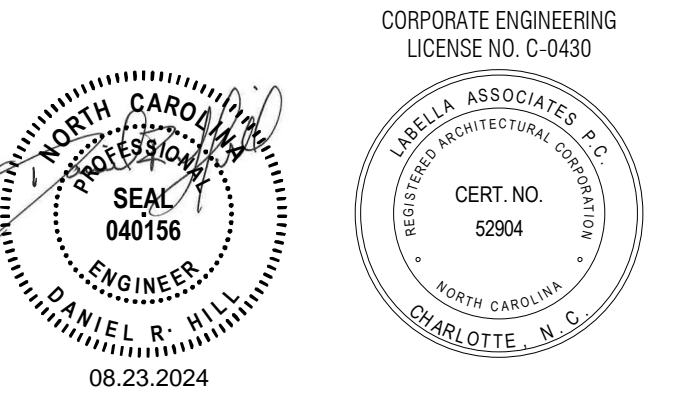
- PLACE STEEL DECK OVER A MINIMUM OF 3 SPANS IN THE DIRECTION INDICATED IN THE PLANS, UNLESS OTHERWISE NOTED.
- PROVIDE BENT METAL CLOSURE PLATES (POURSTOPS) AT ALL DISCONTINUOUS SLAB EDGES IN ACCORDANCE WITH TYPICAL SLAB EDGE DETAILS.
- WELD DECKING TO STRUCTURAL STEEL BY CERTIFIED WELDERS USING PREQUALIFIED PROCEDURES. THE ERECTOR SHALL ESTABLISH A WELDING PROCEDURE FOR THE PUDDLE WELDING OF STEEL DECKING TO THE STRUCTURAL STEEL FOR THE PARTICULAR GAGES USED. PRIOR TO THE START OF ERECTION OF THE STEEL DECK, QUALIFY EACH WELDER USING THIS PROCEDURE AS WITNESSED BY THE OWNER'S TESTING LABORATORY.
- POWER-ACTUATED MECHANICAL FASTENERS APPROVED BY THE ENGINEER OF RECORD MAY BE USED IN LIEU OF WELDING TO THE DECKING TO THE STRUCTURAL STEEL.
- DO NOT HANG LOADS EXCEEDING 50 LBS. FROM ANY METAL DECKING, HANG ALL DUCTWORK, PIPING, ETC. DIRECTLY FROM STRUCTURAL STEEL.
- MESH REINFORCING SHALL BE LOCATED 3/4" DOWN FROM THE TOP OF ALL SLABS. MESH SHALL BE SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE AND THE DECK MANUFACTURER UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.

COLD-FORMED METAL STUD FRAMING NOTES:

- ALL STRUCTURAL MEMBERS SHALL BE DESIGN DELEGATED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED METAL STRUCTURAL MEMBERS", LATEST EDITION. PROVIDE SUBMITTALS FOR ALL COLD-FORMED STEEL FRAMING.
- ALL 16 GAGE AND HEAVIER FRAMING STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A1003 WITH A MINIMUM YIELD STRENGTH OF 50 KSI, UNLESS OTHERWISE NOTED. MEETING THE TOLERANCES NOTED IN ASTM C955. ALL 18 GAGE AND LIGHTER FRAMING SHALL BE FORMED FROM CORROSION-RESISTANT STEEL CORRESPONDING TO THE REQUIREMENTS OF ASTM A1003 WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
- ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED MEETING ASTM A653, G-90.
- ALL VERTICAL STUDS SHALL BE BRACED AT 4 FEET ON CENTER VERTICALLY UTILIZING A HORIZONTAL STRAP AND BLOCKING OR COLD-ROLLED CHANNEL.
- PERSONNEL EXPERIENCED IN COLD-FORMED METAL FRAMING INSTALLATION SHALL INSTALL ALL METAL FRAMING.
- PROVIDE A DOUBLE STUD AT ALL CORNER CONDITIONS.
- WHERE PRESSURE TREATED LUMBER IS USED IN DIRECT CONTACT WITH GALVANIZED COLD FORMED FRAMING, USE FELT PAPER, CLOSED CELL FOAM, HEAVY PLASTIC, OR PAINT TO ISOLATE THE TWO MATERIALS FROM CORROSION. CONTRACTOR SHALL USE THE APPROPRIATE FASTENERS THAT DO NOT ACCELERATE CORROSION AS REQUIRED.
- AT VARIOUS LOCATIONS IN THE CONSTRUCTION DOCUMENTS, GAGE NO. ARE USED. THESE NUMBERS ARE FOR REFERENCE ONLY. MINIMUM ACCEPTABLE MATERIAL THICKNESS DELIVERED TO THE JOBSITE IS AS FOLLOWS:

.....REFERENCE ONLY	MINIMUM THICKNESS
.....(GAGE NO.)	(mils")
.....20	33
.....18	43
.....16	54
.....14	68
.....12	97

* 1 mil = 1/1000 inch



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LCCU - Morrisville Site Adapt

9521 Chapel Hill Rd. Morrisville, NC 27560

NO.	DATE:	DESCRIPTION:
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		JLW
REVIEWED BY:		DRH
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

GENERAL NOTES

DRAWING NUMBER:

S001

BASE PLATE SCHEDULE							
TYPE	BASE PLATE PROPERTIES			ANCHOR BOLT PROPERTIES			COMMENTS
	LENGTH	WIDTH	THICKNESS	NO. OF BOLTS	BOLT DIAMETER	MIN. EMBEDMENT	
BP1	1'-2"	1'-2"	1"	4	3/4"	9"	
BP2	1'-4"	1'-4"	1 1/4"	4	1"	1'-0"	

FOOTING SCHEDULE							
MARK	FOOTING DIMENSIONS			FOOTING REINFORCEMENT			COMMENTS
	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
				LONGITUDINAL REINF.	TRANSVERSE REINF.		
F4	4'-0"	4'-0"	1'-0"	(5) #5 BARS	(5) #5 BARS		
F5	5'-0"	5'-0"	1'-4"	(6) #5 BARS	(6) #5 BARS		
F6	6'-0"	6'-0"	1'-6"	(7) #6 BARS	(7) #6 BARS	(7) #6 BARS E.W.	
F7	7'-0"	7'-0"	1'-6"	(8) #6 BARS	(8) #6 BARS	(8) #6 BARS E.W.	

FOUNDATION WALL SCHEDULE					
MARK	TYPE	THICKNESS	WALL REINFORCEMENT		COMMENTS
			HORIZONTAL	VERTICAL	
C6	CONCRETE WALL	6"	#4 BARS @ 12" O.C.	#4 BARS @ 12" O.C.	REINFORCEMENT CENTERED ON WALL
C10	CONCRETE WALL	10"	#4 BARS @ 12" O.C. E.F.	#4 BARS @ 12" O.C. E.F.	
C12	CONCRETE WALL	1'-0"	#4 BARS @ 12" O.C. E.F.	#4 BARS @ 12" O.C. E.F.	

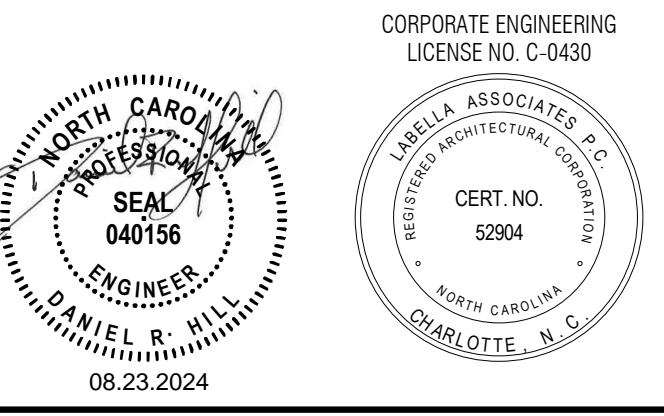
ROOF DECK SCHEDULE						
MARK	TYPE	MODEL	GAGE	WELDED FASTENER PATTERN		COMMENTS
				SUPPORT PATTERN	SIDELAP PATTERN	
RD-1	METAL ROOF DECK	VULCRAFT 1.5" TYPE B DECK	20	36/5 PATTERN	6" O.C.	

SLAB-ON-GRADE SCHEDULE					
MARK	TYPE	SLAB THICKNESS	SLAB REINFORCEMENT	COMMENTS	
S.O.G. 1	SLAB-ON-GRADE	4"	FIBER REINFORCED - SEE GENERAL NOTES		

WALL FOOTING SCHEDULE					
MARK	WIDTH	THICKNESS	FOOTING REINFORCEMENT		COMMENTS
			LONGITUDINAL	TRANSVERSE	
WF1	2'-0"	1'-0"	(3) #4 CONT.	#4 BARS @ 12" O.C.	
WF2	2'-6"	1'-0"	(3) #4 CONT.	#4 BARS @ 12" O.C.	

STRUCTURAL DESIGN TABLE - NCSBC 2018 (IN ACCORDANCE WITH APPLICABLE BUILDING CODE)			
BUILDING DATA:	LOCATION BUILDING OCCUPANCY RISK CATEGORY APPLICABLE BUILDING CODE	9521 Chapel Hill Rd. Morrisville, NC 27560 II NORTH CAROLINA STATE BUILDING CODE, LATEST EDITION	NCSBC 2018 TABLE 1604.5
DEAD LOAD:	ROOF	DL1	20 PSF
FLOOR LIVE LOAD:	LOBBY CORRIDORS (FIRST FLOOR) OFFICES MECHANICAL	LL1 LL2 LL3 LL4	100 PSF 100 PSF 50 PSF 150 PSF
ROOF LIVE LOAD:	ROOF	LLr	20 PSF
SNOW LOAD:	SNOW LOAD IMPORTANCE FACTOR GROUND SNOW LOAD SNOW EXPOSURE FACTOR THERMAL FACTOR FLAT ROOF SNOW DRIFTING SNOW	Is Pg Ce Ct Pf	1.0 15 PSF 1.0 1.0 12 PSF AS REQ. PER ASCE 7-10
WIND LOAD (MAIN WIND-FORCE RESISTING SYSTEM):	ANALYSIS PROCEDURE ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) NOMINAL DESIGN WIND SPEED (3-SECOND GUST) WIND DIRECTIONALITY FACTOR EXPOSURE CATEGORY TOPOGRAPHIC FACTOR GUST-EFFECT FACTOR ENCLOSURE CLASSIFICATION INTERNAL PRESSURE COEFFICIENT VELOCITY PRESSURE EXTERNAL PRESSURE COEFFICIENT MINIMUM WALL WIND PRESSURE MINIMUM ROOF WIND PRESSURE NOTES	Vult Vasd Kd C Kzt G Gcpi q Cp Pmin Pmin	DIRECTIONAL PROCEDURE 115 mph 90 mph 0.85 1.00 0.85 ENCLOSED +0.18/-0.18 19 PSF 0.8 16 PSF 8 PSF ASCE 7-10 CHAPTER 27 ASCE 7-10 SECTION 26.5 NCSBC SECTION 1609.3.1 ASCE 7-10 SECTION 26.6 ASCE 7-10 SECTION 26.7 ASCE 7-10 SECTION 26.8 ASCE 7-10 SECTION 26.9 ASCE 7-10 SECTION 26.10 ASCE 7-10 SECTION 26.11 ASCE 7-10 SECTION 27.3.2 ASCE 7-10 SECTION 27.4 ASCE 7-10 SECTION 27.4.7
WIND LOAD (COMPONENTS & CLADDING):	BASIC WIND SPEED (3-SECOND GUST) EXPOSURE CATEGORY TOPOGRAPHIC FACTOR ENCLOSURE CLASSIFICATION EFFECTIVE WIND AREA MINIMUM DESIGN WIND PRESSURE NOTES	V C Kzt Aeff Pmin	90 mph 1.00 ENCLOSED 10 SOFT +/- 16 PSF 1. EFFECTIVE AREA ABOVE USED AS BASIS FOR "WORST CASE" PRESSURE CALCULATIONS. THE EFFECTIVE AREA FOR EACH INDIVIDUAL COMPONENT SHALL BE CALCULATED AND PRESSURE VALUES ADJUSTED ACCORDINGLY. 2. INCREASED WIND PRESSURES AT EDGES, OVERHANGS, AND OTHER SURFACES ARE AS DEFINED IN ASCE 7-10 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
EARTHQUAKE LOAD:	SEISMIC - FORCE RESISTING SYSTEM SOIL SITE CLASSIFICATION SPECTRAL RESPONSE ACCELERATION AT 0.2 SEC SPECTRAL RESPONSE ACCELERATION AT 1.0 SEC SEISMIC IMPORTANCE FACTOR DESIGN SPECTRAL RESPONSE COEFFICIENT DESIGN SPECTRAL RESPONSE COEFFICIENT SEISMIC DESIGN CATEGORY ANALYSIS PROCEDURE SEISMIC RESPONSE COEFFICIENT RESPONSE MODIFICATION FACTOR SEISMIC BASE SHEAR	H D Ss S1 Ie SDS SD1 B EQUIV. LATERAL FORCE Cs R V	H. STEEL SYSTEMS NOT SPECIFICALLY DETAILED ASCE 7-10 TABLE 12.2-1 ASCE 7-10 SECTION 20.3 ASCE 7-10 FIGURE 22-1 ASCE 7-10 SECTION 11.4.1 ASCE 7-10 TABLE 11.5-2 ASCE 7-10 SECTION 11.4.4 ASCE 7-10 SECTION 11.4.4 ASCE 7-10 TABLE 11.6-(18.2) ASCE 7-10 SECTION 12.8 ASCE 7-10 SECTION 12.8.1 ASCE 7-10 TABLE 12.2-1 ASCE 7-10 SECTION 12.8.1

COLUMN SCHEDULE																	
T.O.S. HIGH ROOF																	T.O.S. HIGH ROOF
27' - 4"																	27' - 4"
T.O.S. SKYLIGHT																	T.O.S. SKYLIGHT
22' - 1 1/2"																	22' - 1 1/2"
T.O.S. MAIN ROOF																	T.O.S. MAIN ROOF
16' - 5 1/2"																	16' - 5 1/2"
T.O.S. LOW ROOF																	T.O.S. LOW ROOF
12' - 3 1/2"																	12' - 3 1/2"
FOUNDATION PLAN																	FOUNDATION PLAN
0"																	0"
Column Locations	A-3	A-4	A-5	B-2, B-3	B-2(4') - 2 47(64'), B-3(-5' 7.17(64')	B-6	C-4, C-5	D-2	E-1	F-4	G-5	G-6, H-5, H-6	H-1	H-2	H-4	J-2, J-5	J-4



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NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: JLW

REVIEWED BY: DRH

ISSUED FOR: BID SET

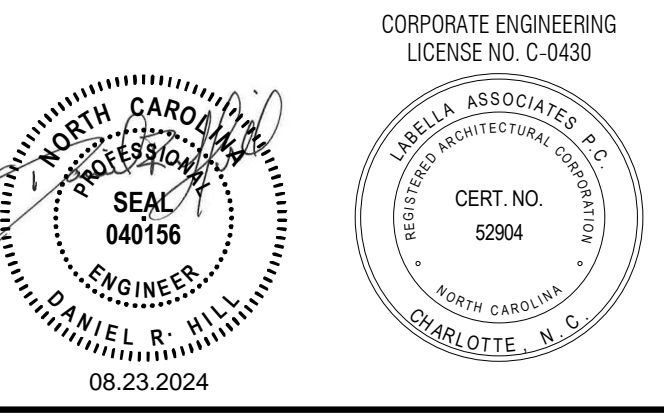
DATE: 08.23.2024

DRAWING NAME:

GENERAL SCHEDULES

DRAWING NUMBER:

S003



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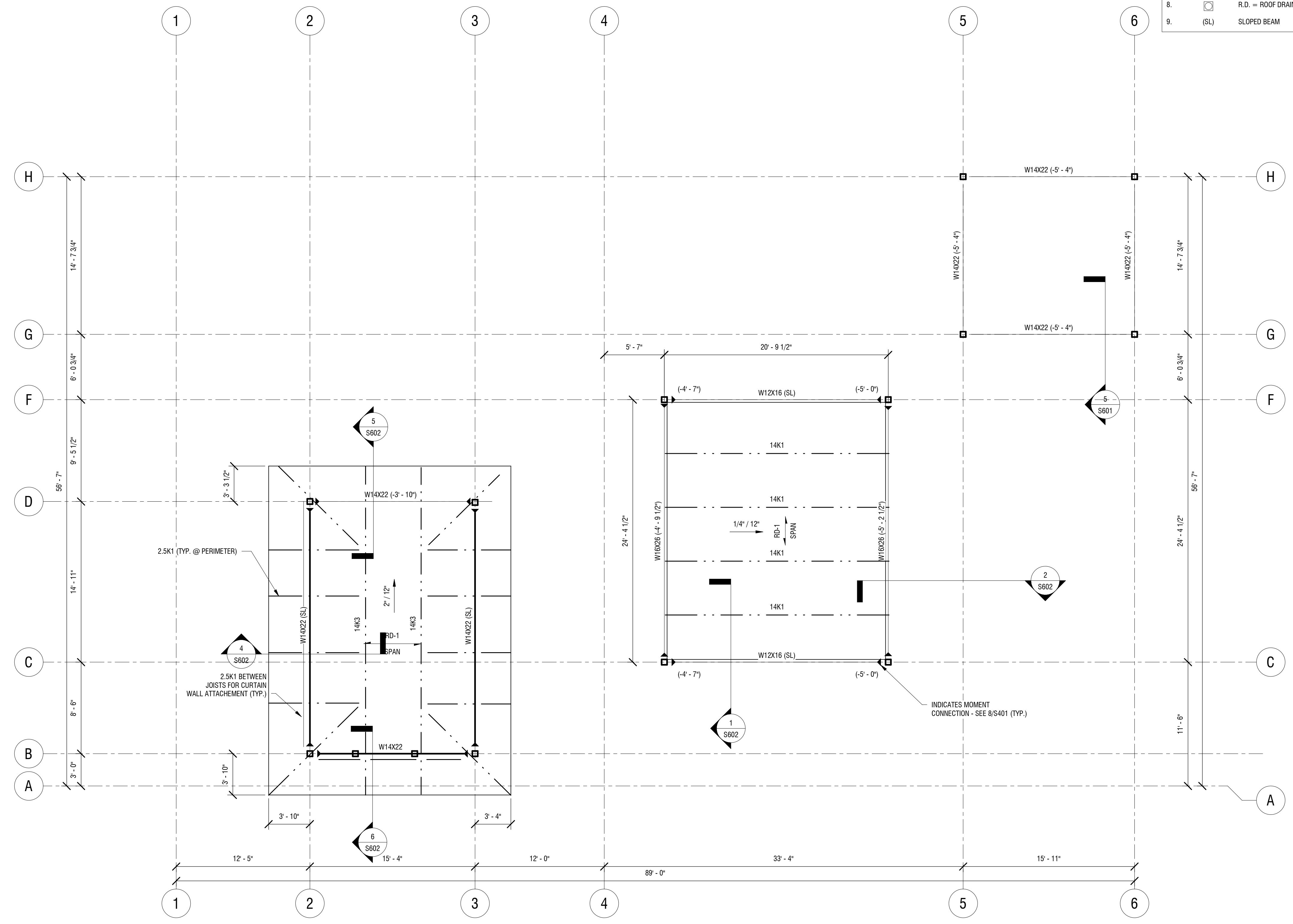
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		JLW
REVIEWED BY:		DRH
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

HIGH ROOF FRAMING PLAN

DRAWING NUMBER:

S201

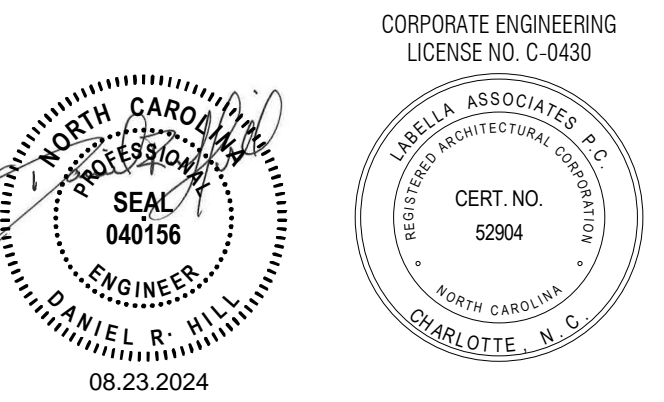
FRAMING LEGEND	
1.	DENOTES MOMENT CONNECTION
2.	DENOTES RIGID CONNECTION
3. (# - #)	BEAM AT ELEV. ABOVE OR BELOW PLAN ELEV. (SEE PLAN NOTES)
4. (BELOW)	BEAM LOCATED BELOW ANOTHER BEAM IN PLAN
5.	ROOF DECK; ARROWS INDICATE SPAN DIRECTION # = DECK MARK (SEE ROOF DECK SCHEDULE)
6.	WALL MARK; SEE WALL SCHEDULE
7.	F.D. = FLOOR DRAIN (SEE MECH. & ARCH.)
8.	R.D. = ROOF DRAIN (SEE MECH. & ARCH.)
9. (SL)	SLOPED BEAM



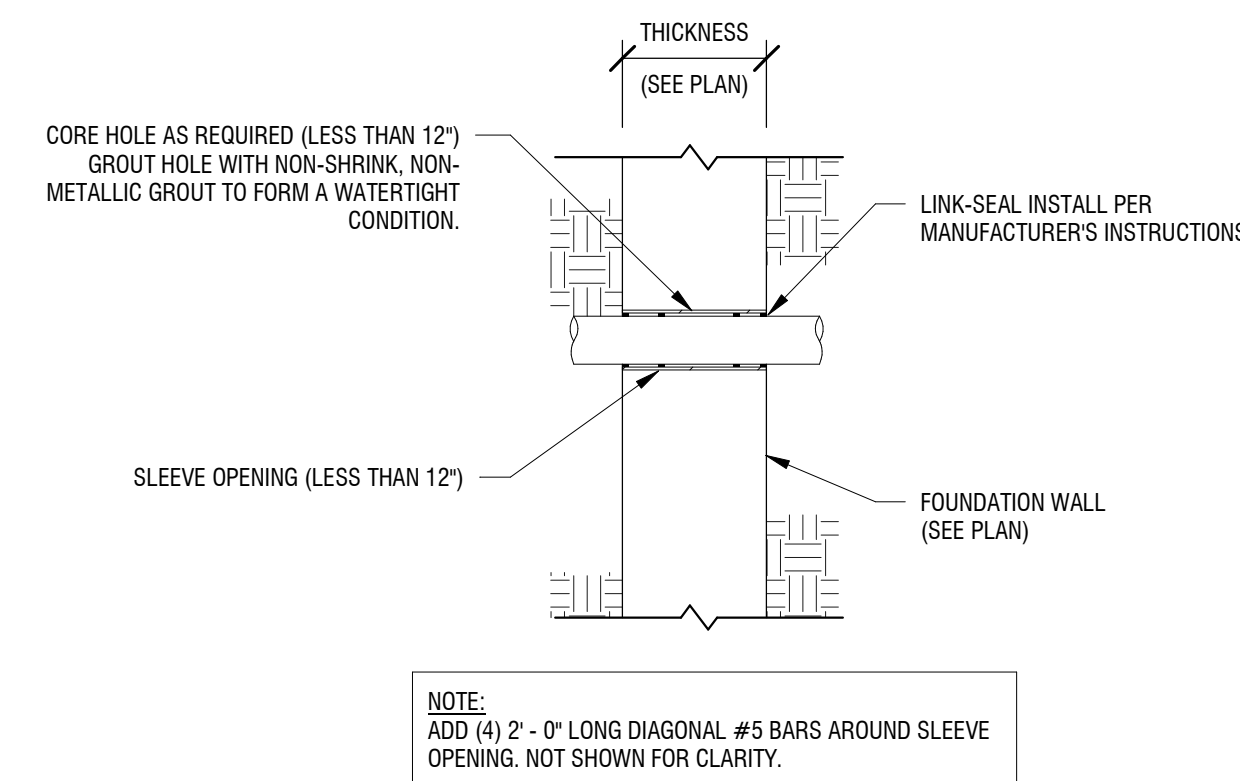
1 HIGH ROOF FRAMING PLAN
S201 3/16" = 1'-0"

- HIGH ROOF FRAMING PLAN NOTES:**
- TOP OF STEEL ELEVATIONS SHALL BE (+27'-4") ABOVE FIRST FLOOR DATUM ELEVATION (DATUM ELEV. 0'-0"). DEVIATIONS FROM THIS ELEVATION ARE NOTED ON PLAN.
 - BEAM REACTIONS SHOWN ON PLANS ARE FACTORED LOAD FORCES. THE MINIMUM BEAM SHEAR REACTION IS 10 KIPS, OR 25% MAXIMUM TOTAL UNIFORM LOAD FOR ALL STEEL MEMBERS, WHICHEVER IS GREATER. DESIGN FOR MARKED PLAN LOADS OR MINIMUM, WHICHEVER IS GREATER.
 - SEE MECHANICAL/ELECTRICAL DRAWINGS FOR THE BALANCE OF ALL EQUIPMENT, FLOOR PENETRATIONS, ETC. REQUIRED AT THIS LEVEL.
 - DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
 - SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
 - SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ARCHITECTURALLY EXPOSED STEEL (AESS).
 - ALL SLOPED BEAMS (NOTED W#X# (SL)) ARE TO SUPPORT ROOF DECK EDGES AND SLOPES AS SHOWN. ELEVATIONS AT SLOPED BEAMS ARE TO MATCH BOTTOM OF ROOF DECK ELEVATIONS.

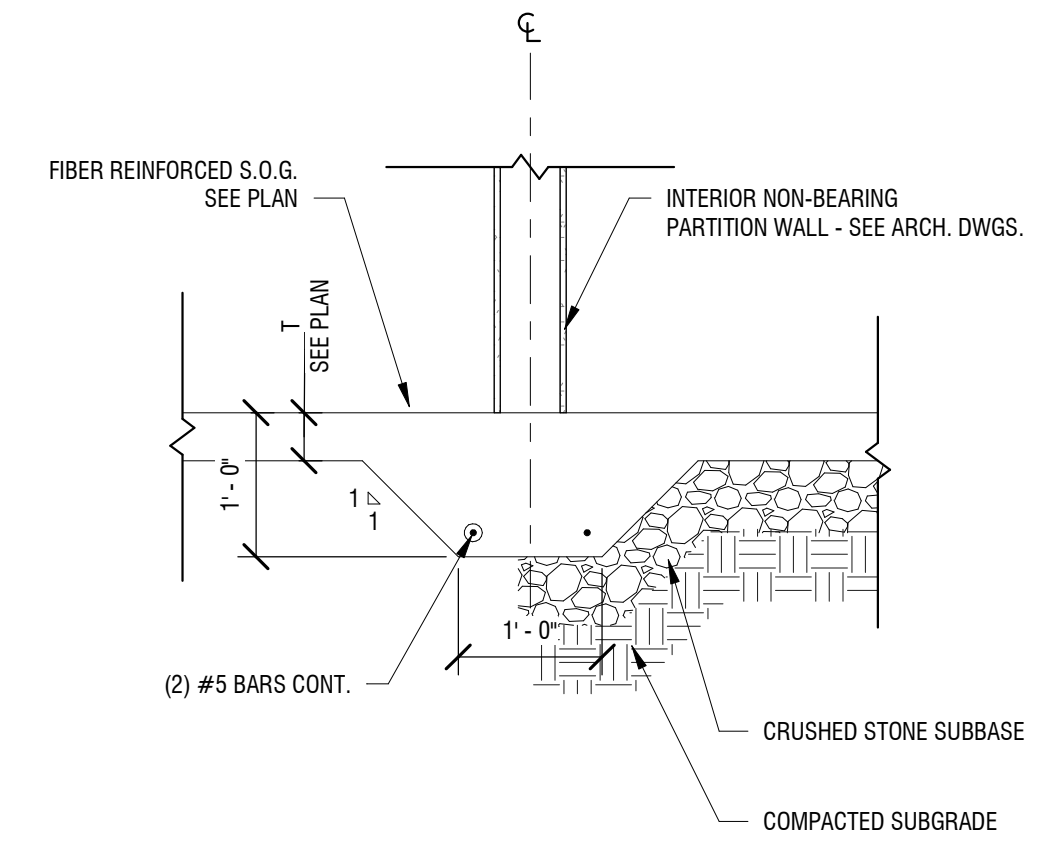
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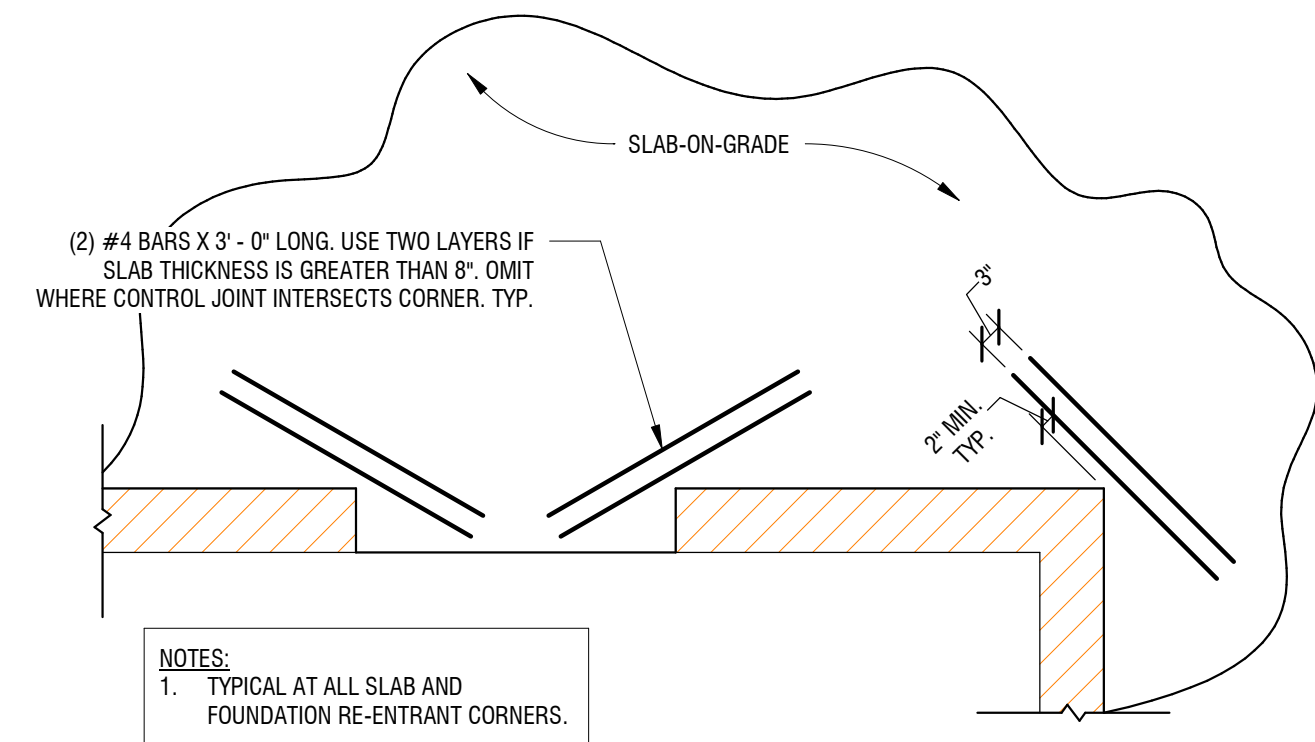
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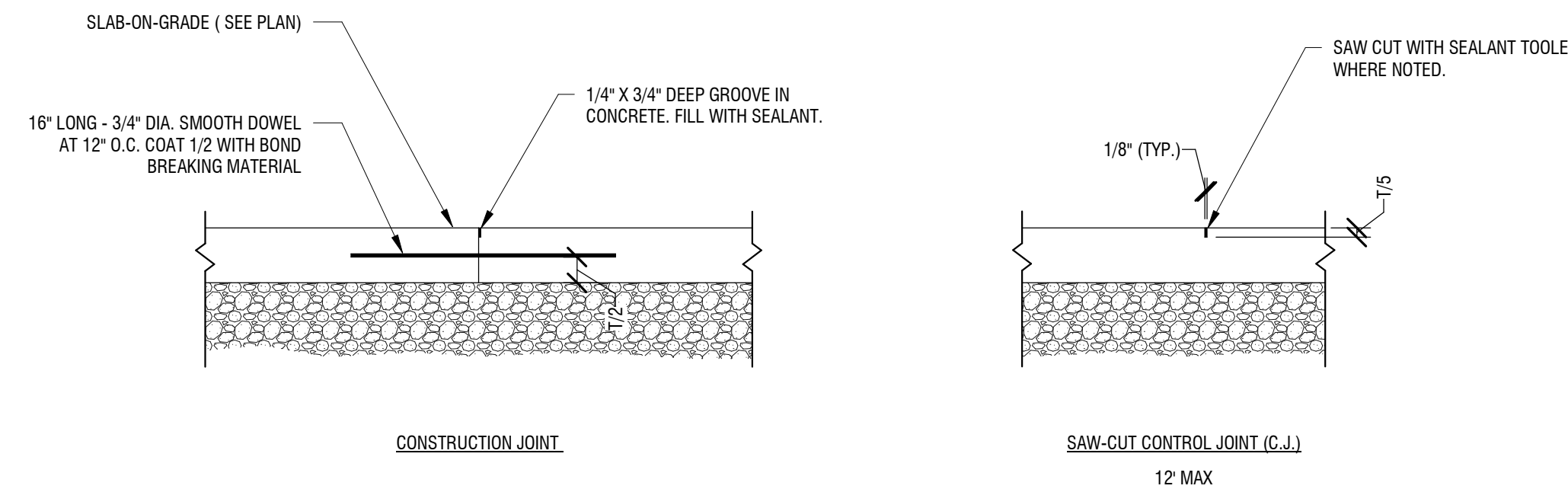
8 TYPICAL PIPE SLEEVE THRU FOUNDATION WALL
S301 3/4" = 1'-0"



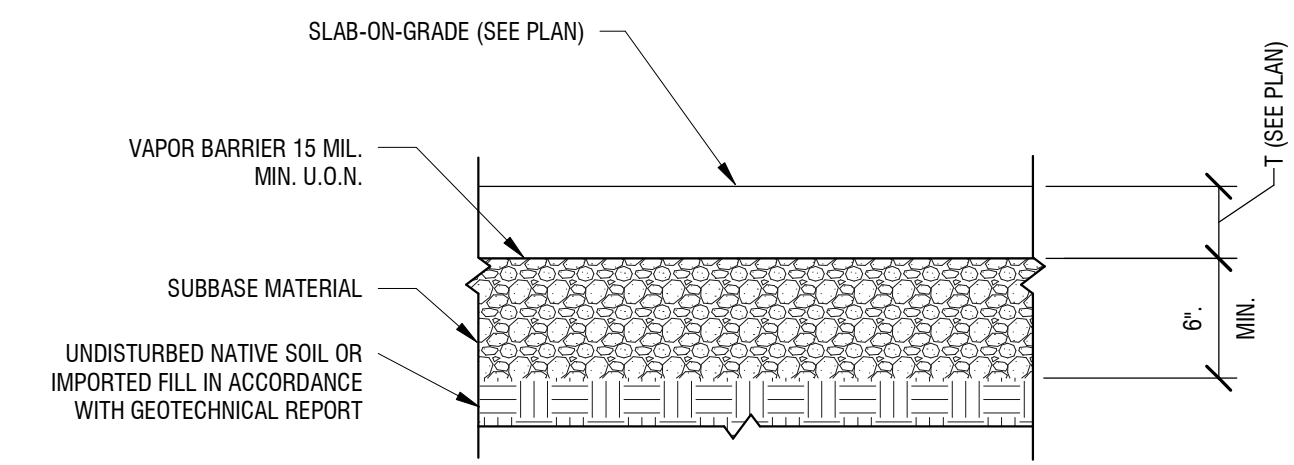
7 INTERIOR PARTITION WALL DETAIL
S301 3/4" = 1'-0"



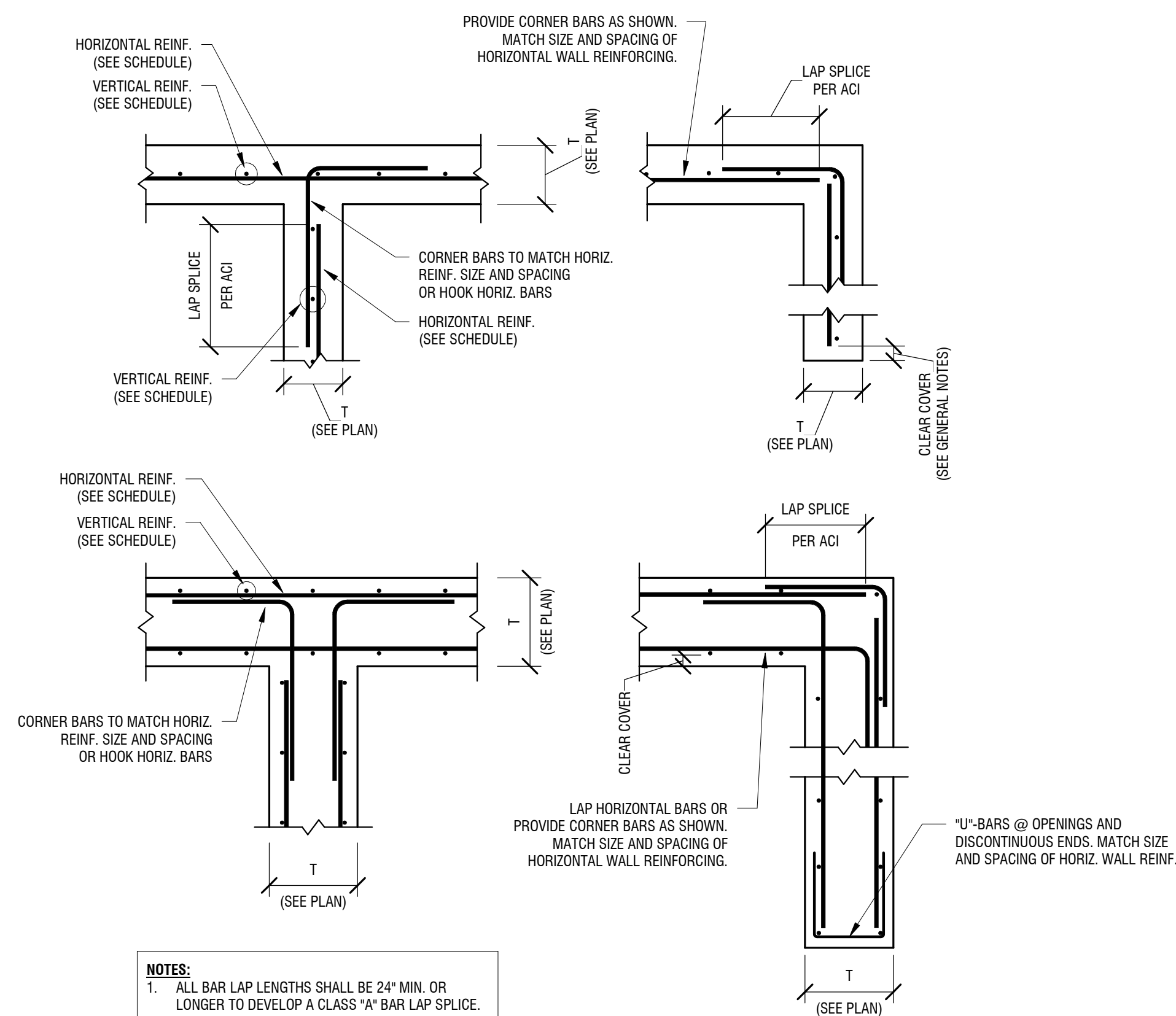
6 TYPICAL SLAB-ON-GRADE RE-ENTRANT CORNER
S301 1/2" = 1'-0"



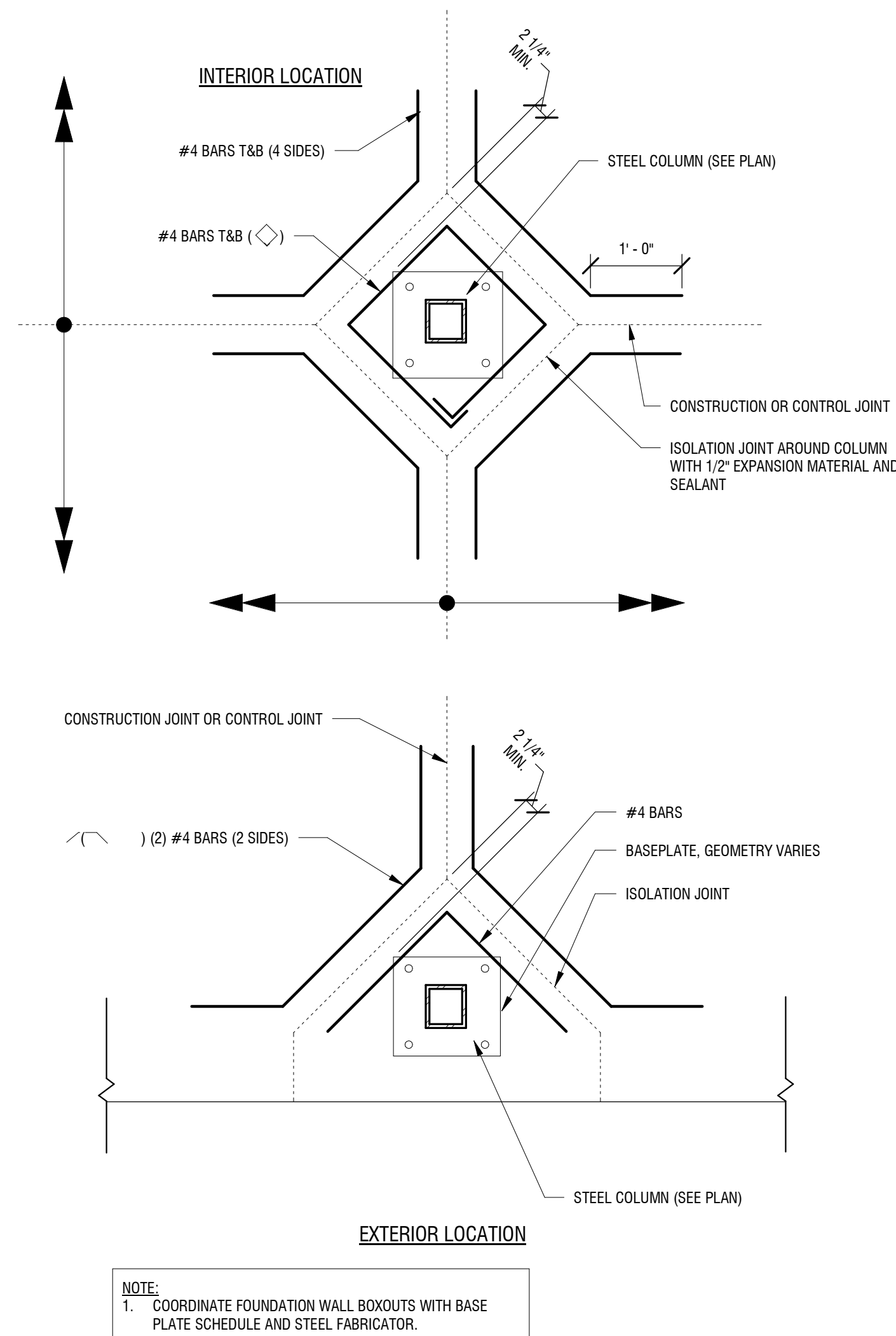
5 TYPICAL SLAB-ON-GRADE JOINT
S301 3/4" = 1'-0"



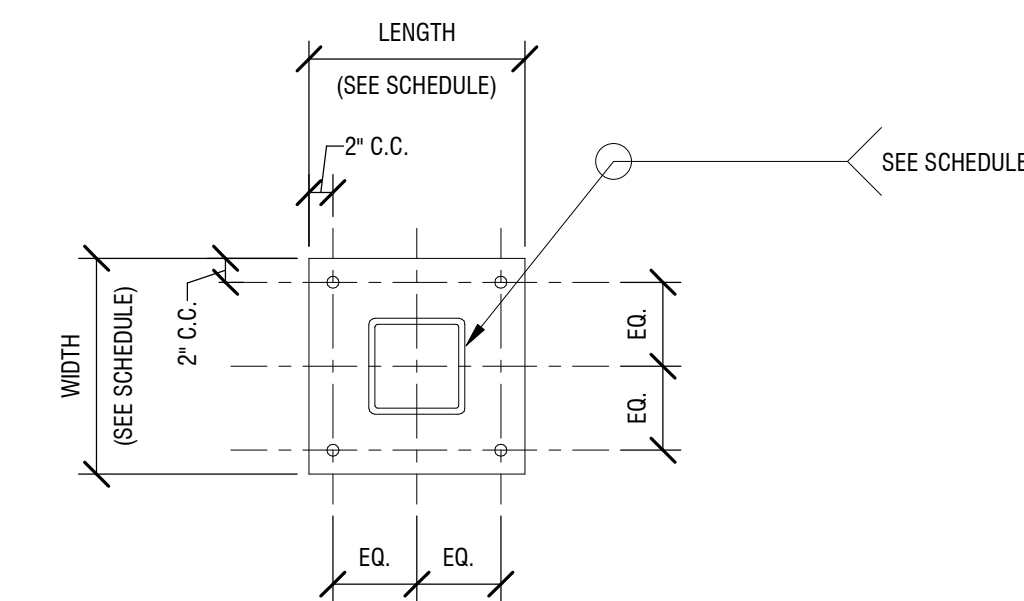
4 TYPICAL SLAB-ON-GRADE WITH VAPOR BARRIER
S301 3/4" = 1'-0"



3 TYPICAL CONCRETE WALL AT INTERSECTION
S301 3/4" = 1'-0"

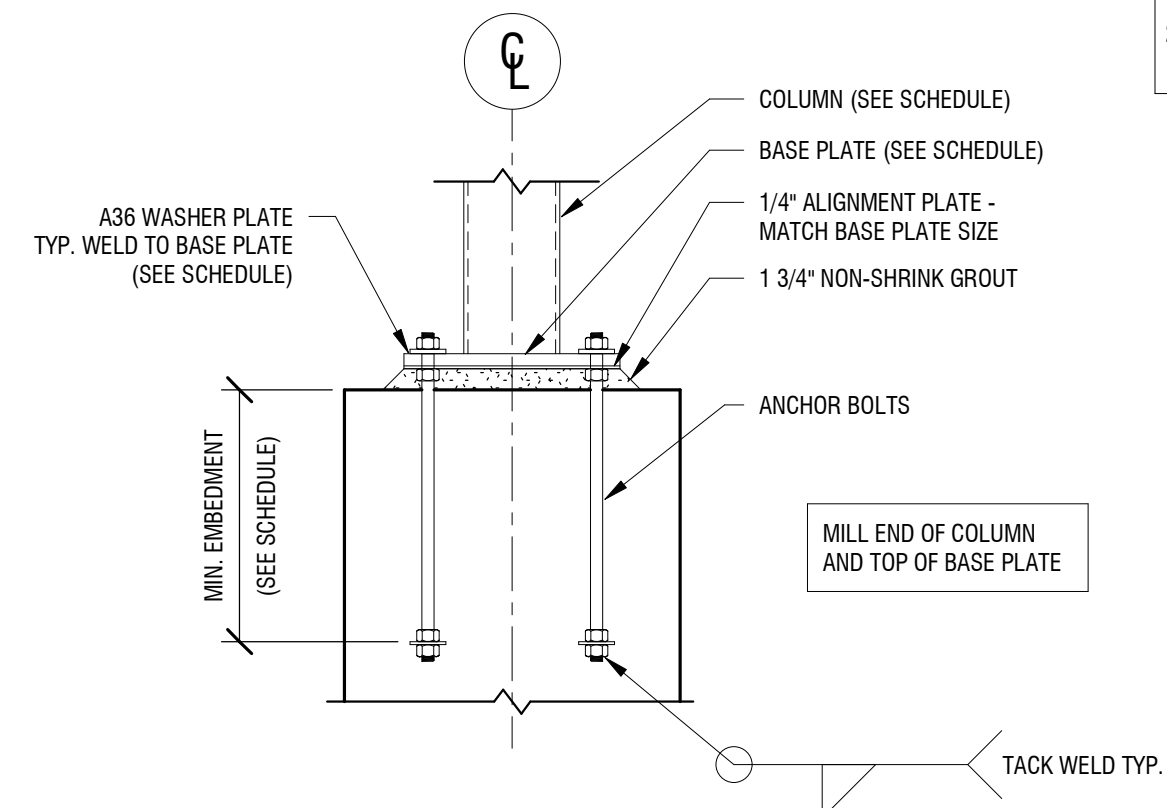


2 TYPICAL COLUMN ISOLATION JOINT
S301 3/4" = 1'-0"



RECOMMENDED SIZES FOR ANCHOR ROD HOLES IN BASE PLATES			
ANCHOR ROD DIAMETER (INCH.)	HOLE DIAMETER (INCH.)	MIN. WASHER DIMENSION (INCH.)	MIN WASHER THICKNESS (INCH.)
3/4	1 5/16	2	1/4
7/8	1 9/16	2 1/2	5/16
1	1 13/16	3	3/8

NOTES:
1. CIRCULAR OR SQUARE WASHERS MEETING THE SIZE SHOWN ARE ACCEPTABLE.
2. ADEQUATE CLEARANCE MUST BE PROVIDED FOR THE WASHER SIZE SELECTED.



1 TYPICAL BASE PLATE HSS-SECTION
S301 3/4" = 1'-0"

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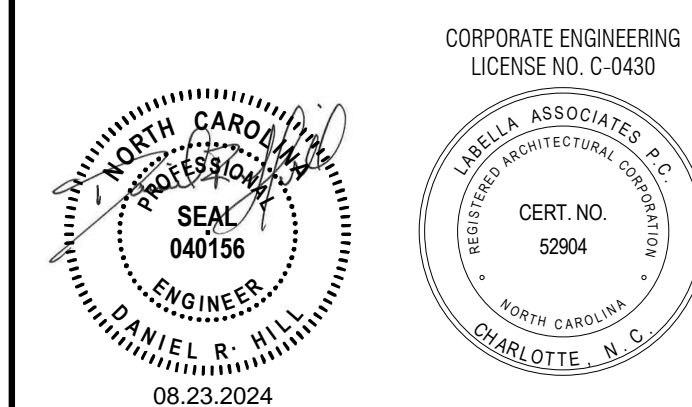
DATE: 08.23.2024

DRAWING NAME:

TYPICAL SLAB-ON-GRADE & FOUNDATION DETAILS

DRAWING NUMBER:

S301



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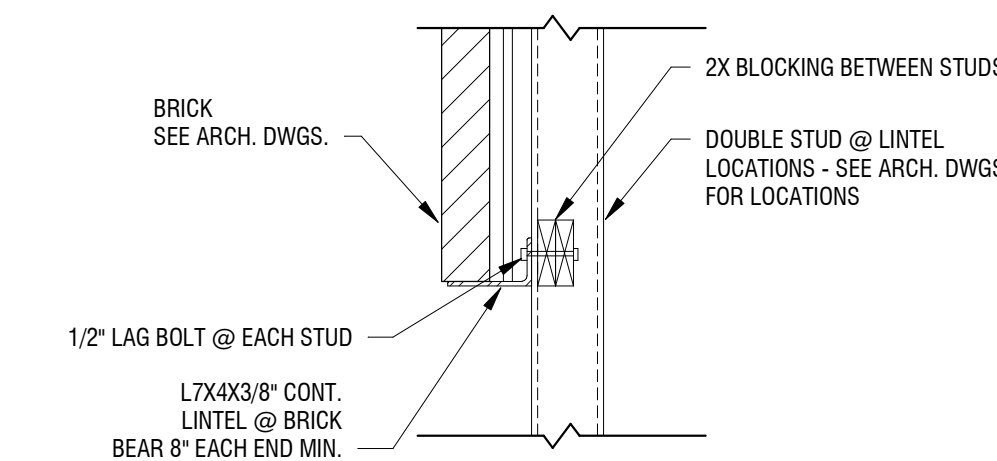
DATE: 08.23.2024

DRAWING NAME:

TYPICAL STEEL DETAILS

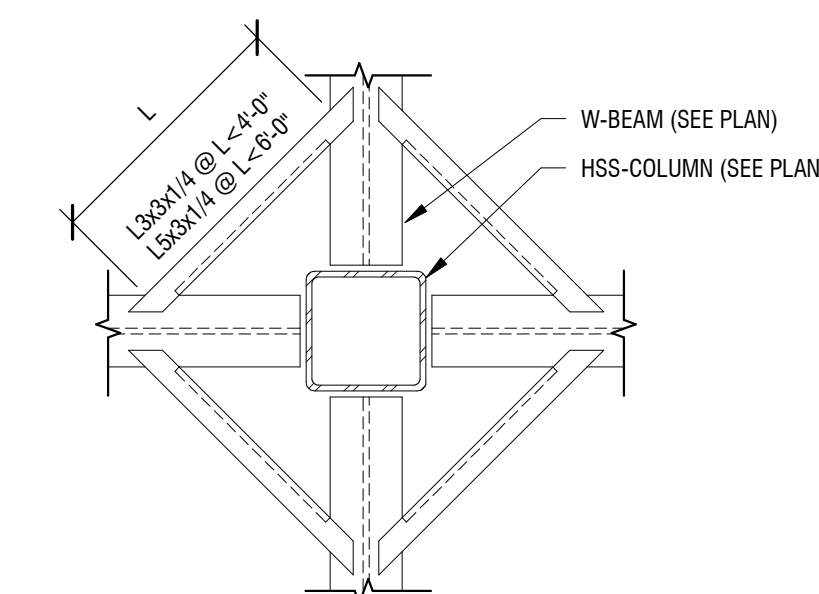
DRAWING NUMBER:

S401



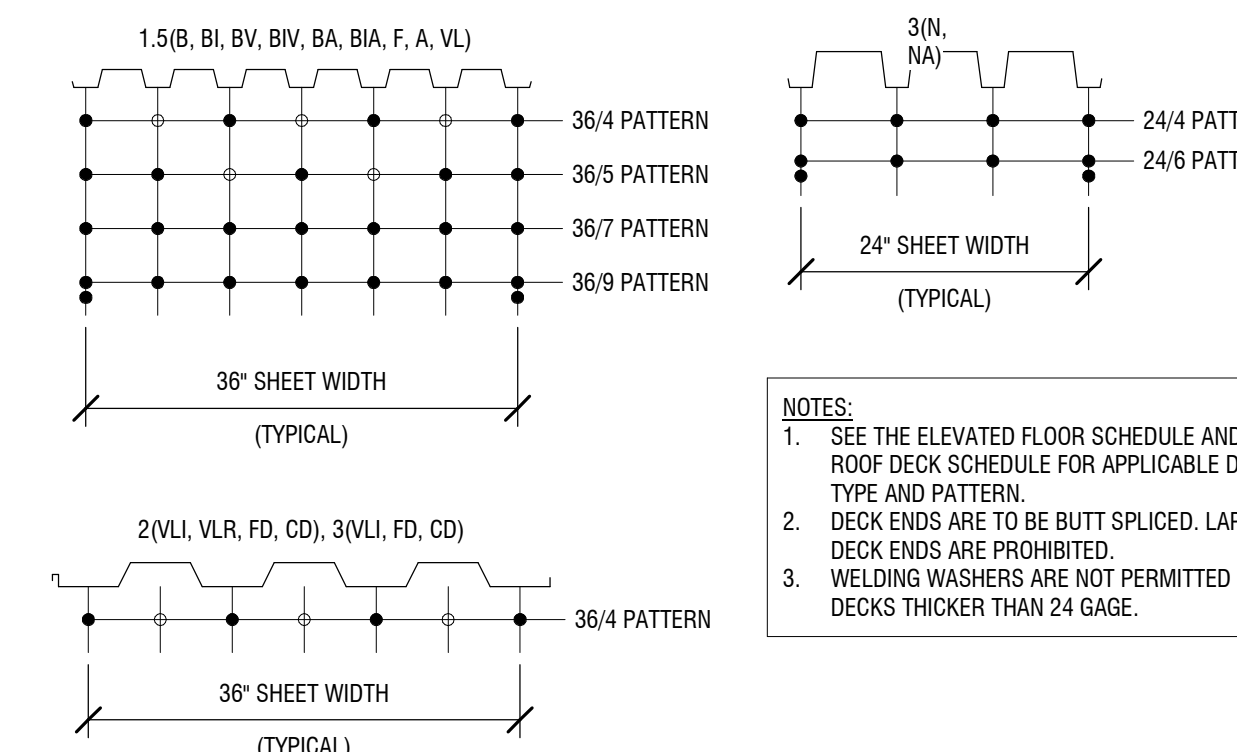
10 STEEL LINTEL DETAIL

S401 3/4" = 1'-0"



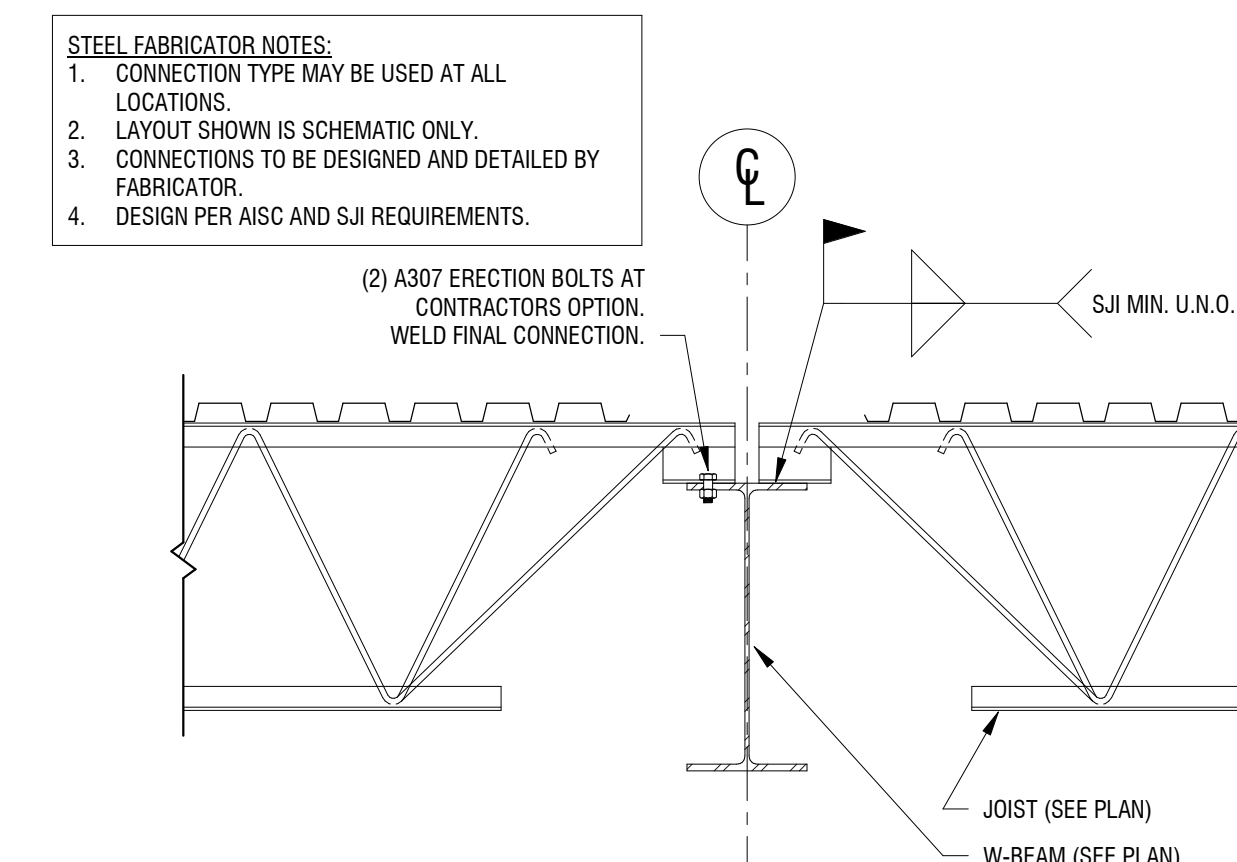
7 TYPICAL DECK SUPPORT AT HSS-COLUMNS

S401 3/4" = 1'-0"



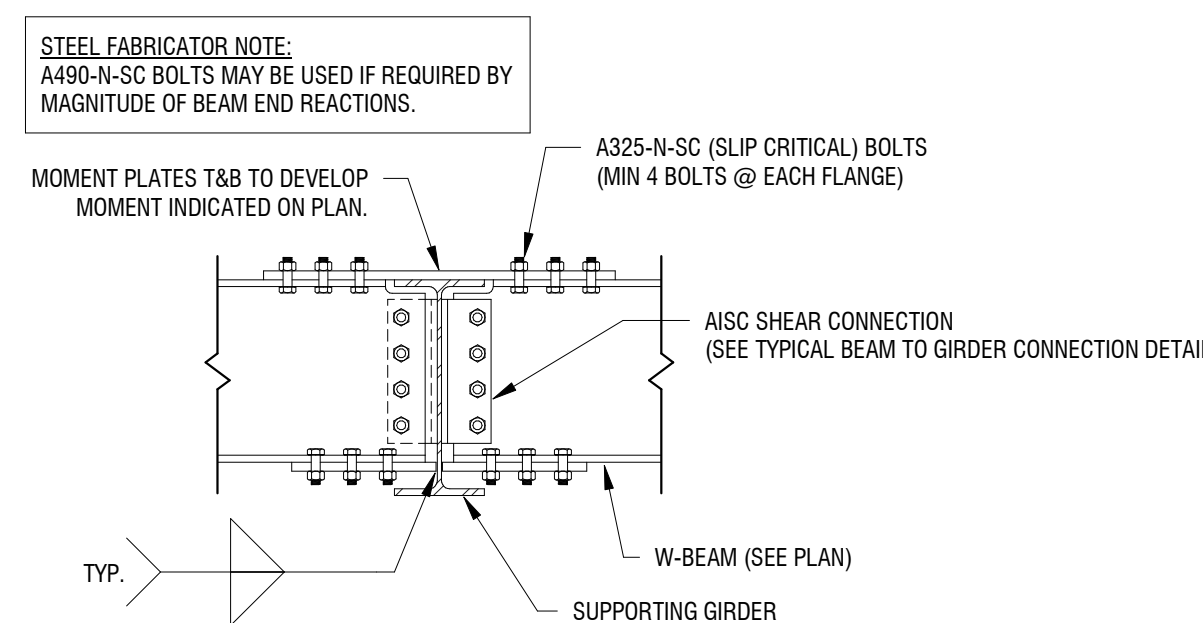
4 TYPICAL METAL DECK FASTENING LAYOUT

S401 3/4" = 1'-0"



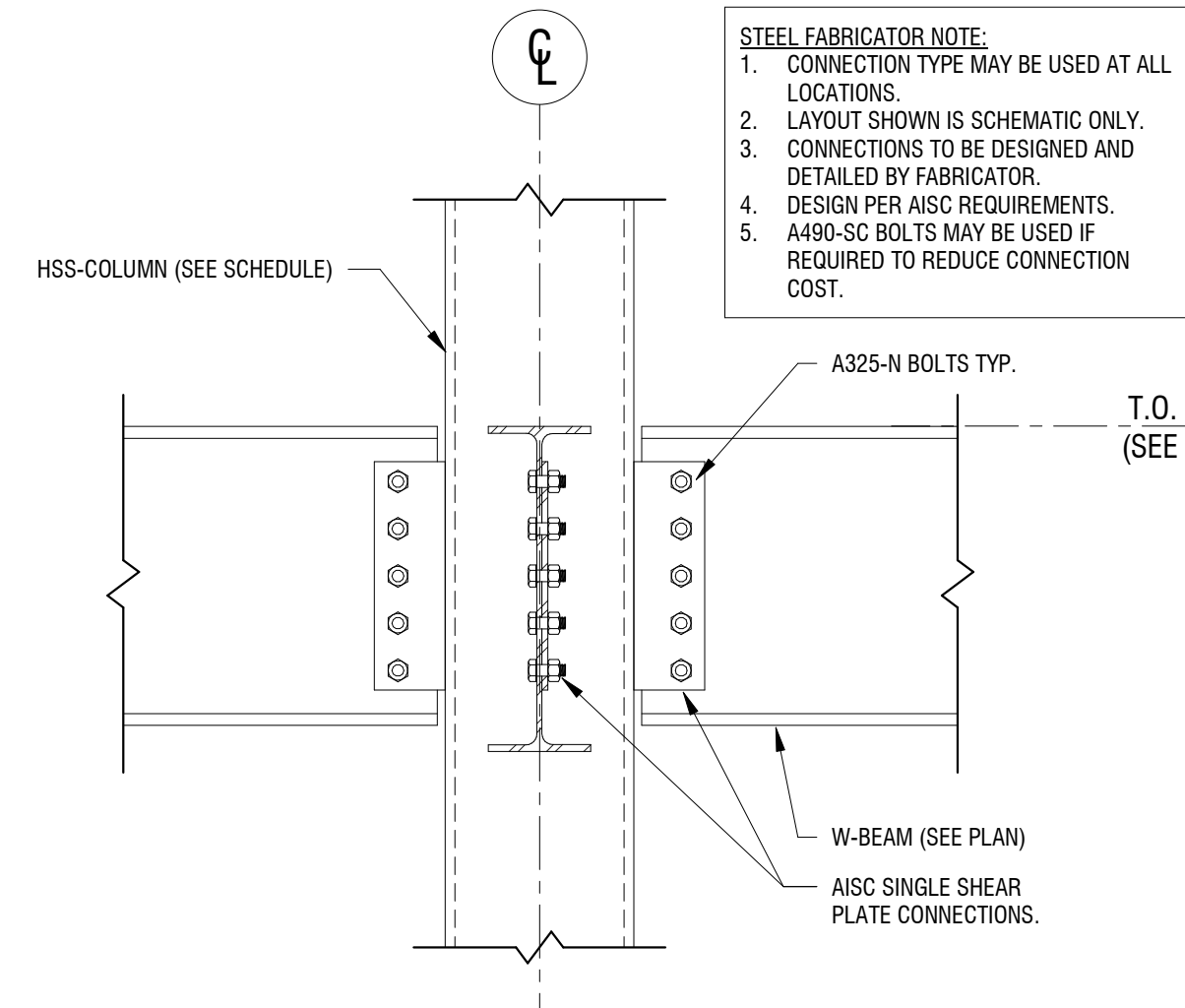
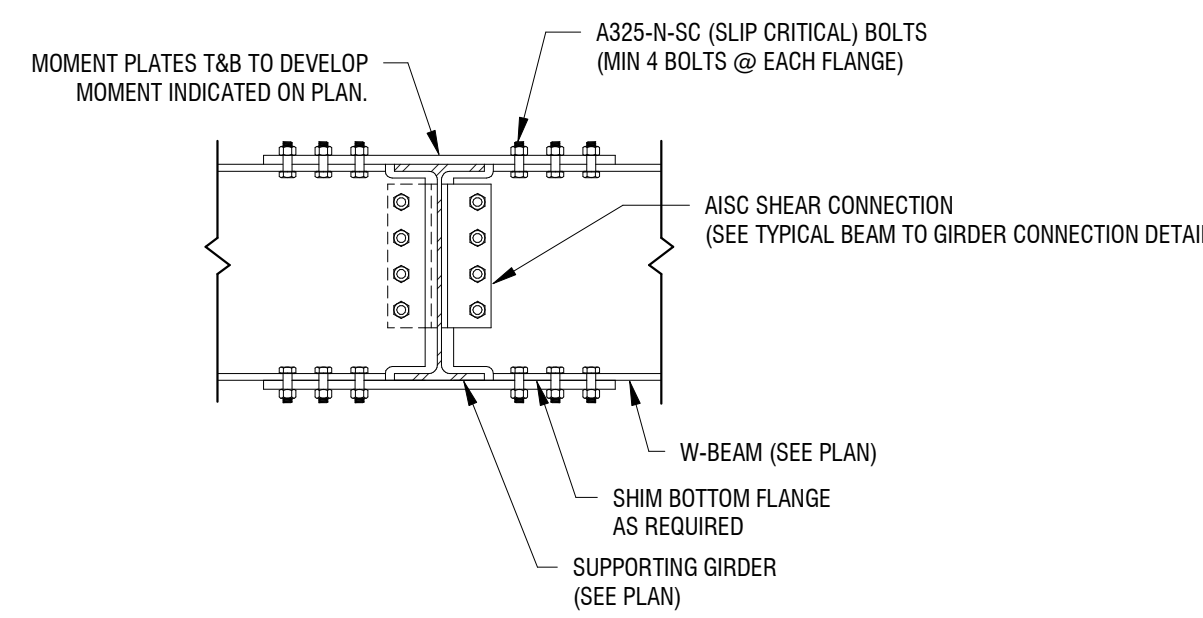
1 TYPICAL JOIST ON GIRDER

S401 3/4" = 1'-0"



6 TYPICAL FIELD BOLTED MOMENT CONNECTION

S401 3/4" = 1'-0"

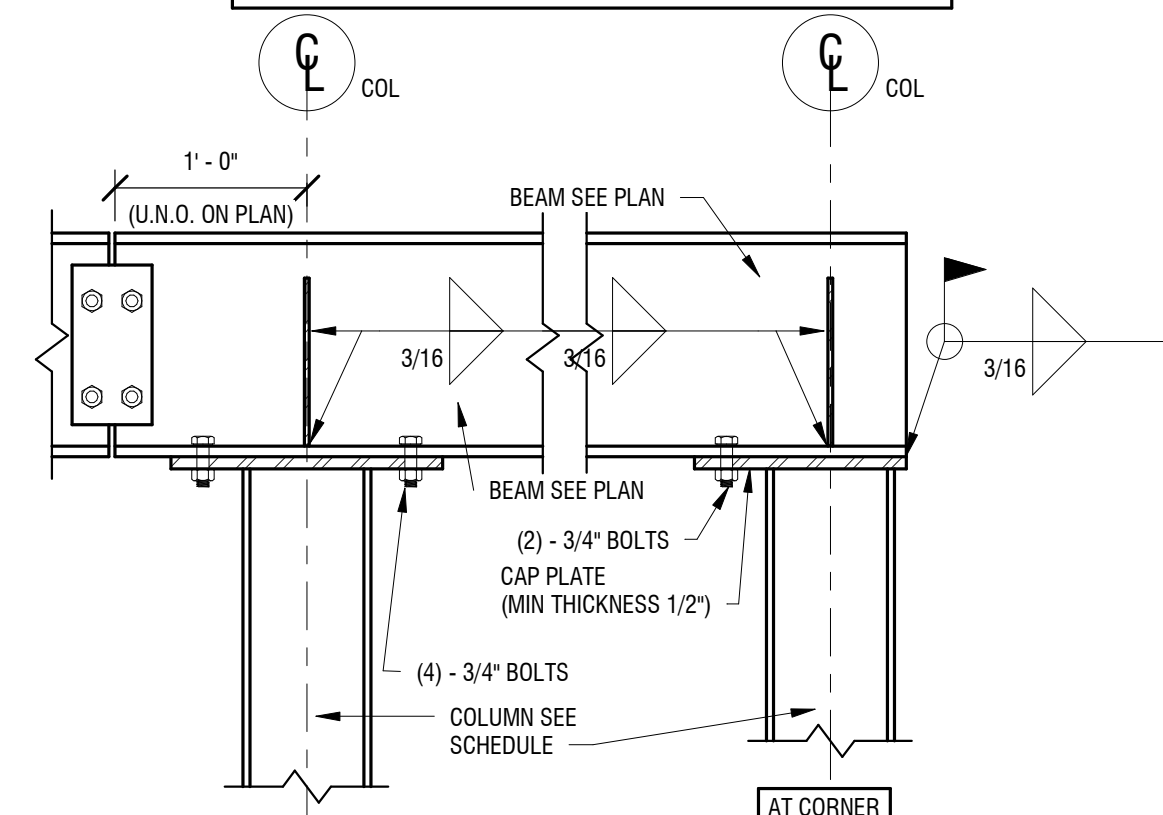


5 TYPICAL W-BEAM TO HSS-COLUMN SHEAR CONNECTION

S401 1" = 1'-0"

SIZE	NO. OF BOLTS
W8	2
W10	2
W12	3
W14	3
W16	4
W18	4
W21	5
W24	5
W27	6
W30	6

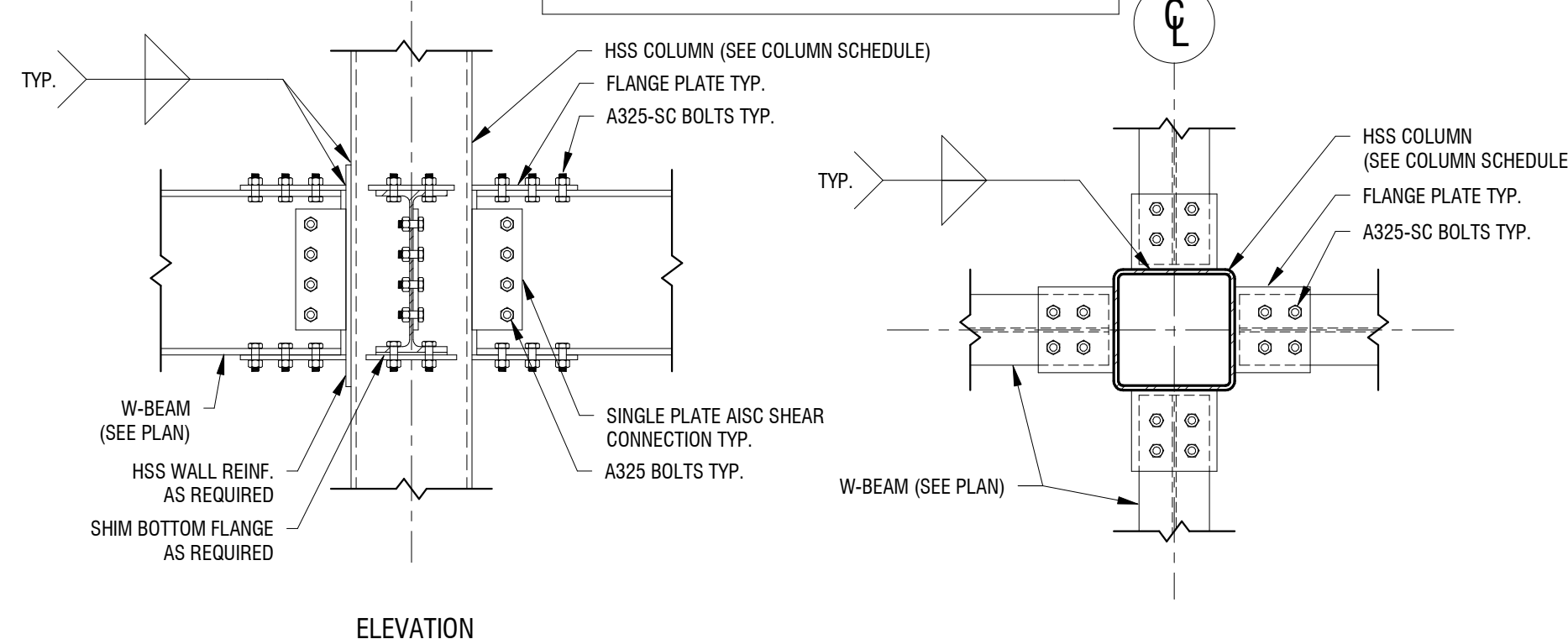
PLATE 5/16" STIFFENER 3/4" HEIGHT OF BEAM BOTH SIDES. WHERE BEAM FRAMES INTO ONE SIDE ONLY A STIFFENER IS REQUIRED ON THE OPPOSITE SIDE.



9 TYPICAL BEAM OVER COLUMN DETAIL

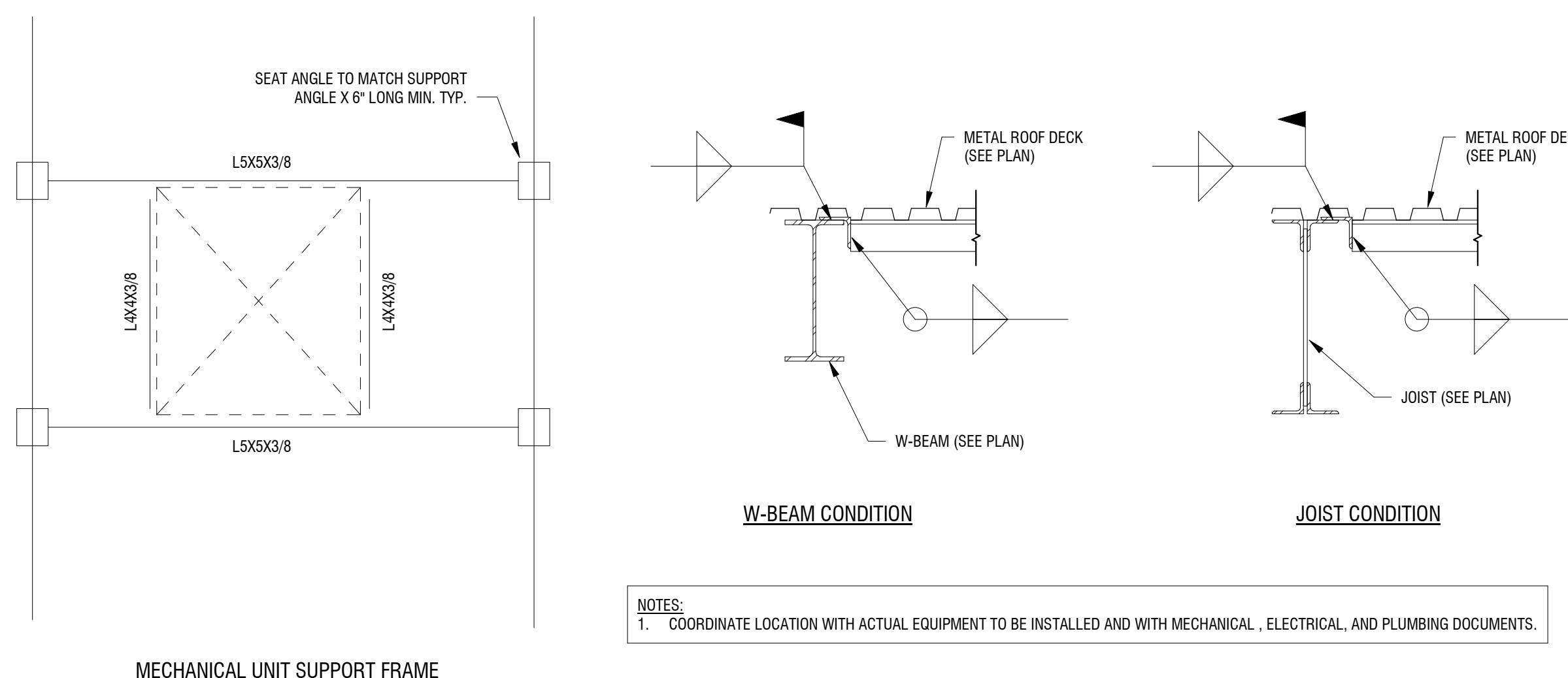
S401 1" = 1'-0"

STEEL FABRICATOR NOTES:
1. CONNECTION TYPE MAY BE USED AT ALL LOCATIONS.
2. LAYOUT SHOWN IS SCHEMATIC ONLY. CONNECTIONS TO BE DESIGNED AND DETAILED BY FABRICATOR.
3. CONNECTIONS TO BE DESIGNED AND DETAILED BY FABRICATOR.
4. DESIGN PER AISC REQUIREMENTS FOR FR MOMENT CONNECTIONS TO HSS COLUMNS.
5. A490-SC BOLTS MAY BE USED IF REQUIRED TO REDUCE CONNECTION COST.
6. FABRICATOR TO PROVIDE HSS WALL REINFORCEMENT PLATES AS REQUIRED PER AISC 360.



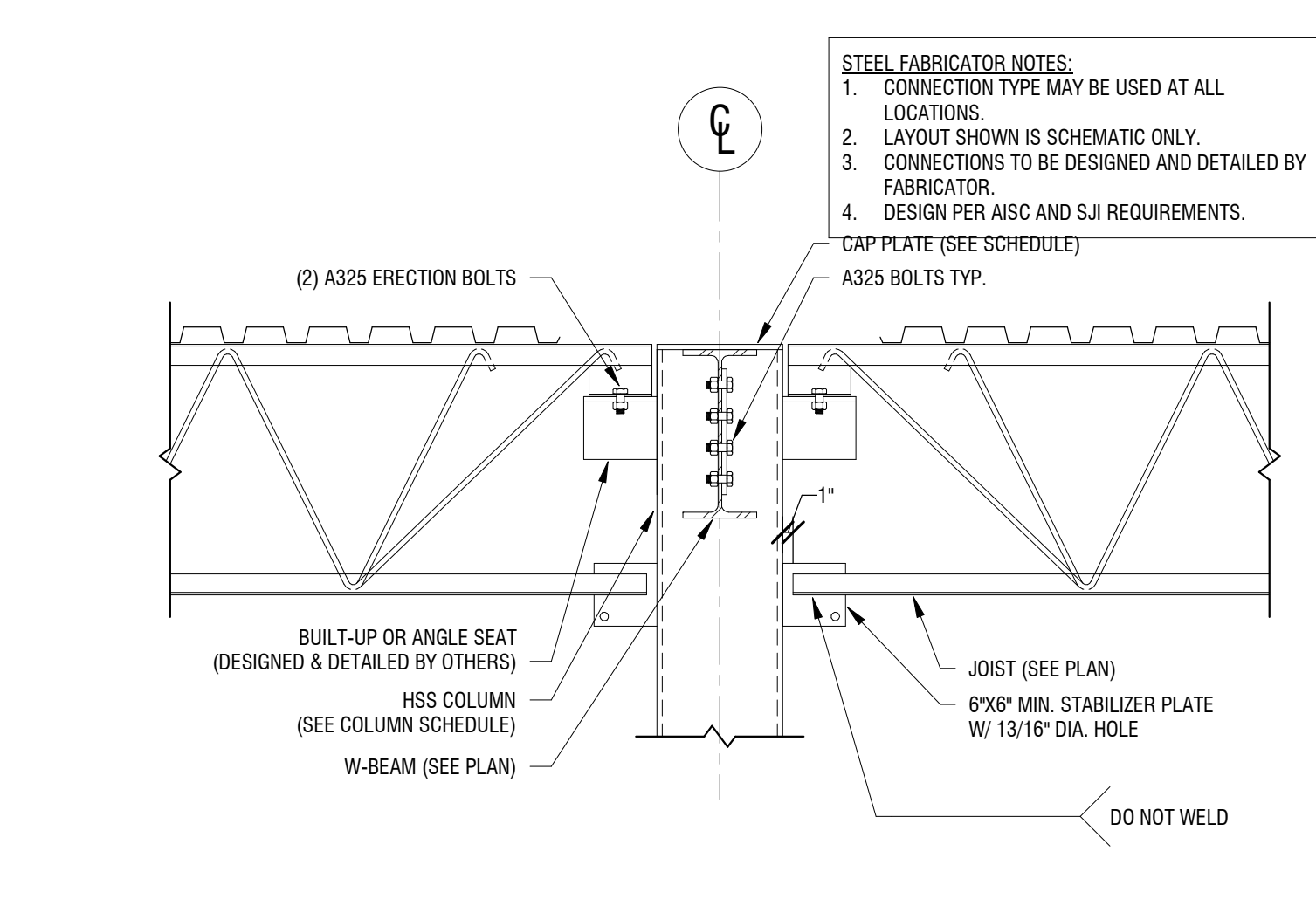
8 TYPICAL FACE WELDED PLATE CONNECTION

S401 3/4" = 1'-0"



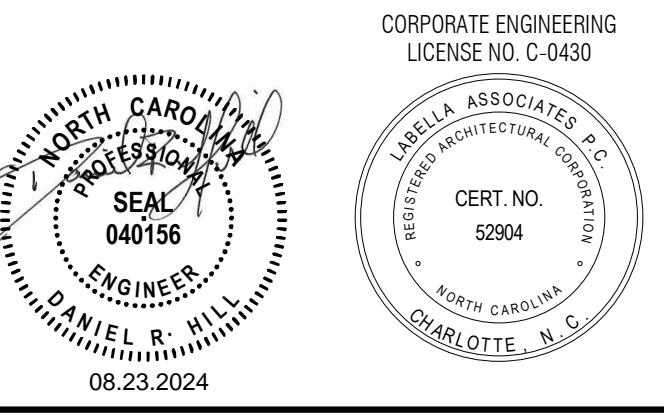
3 TYPICAL MECHANICAL UNIT SUPPORT

S401 3/4" = 1'-0"



2 TYPICAL JOIST TO COLUMN CONNECTION

S401 3/4" = 1'-0"



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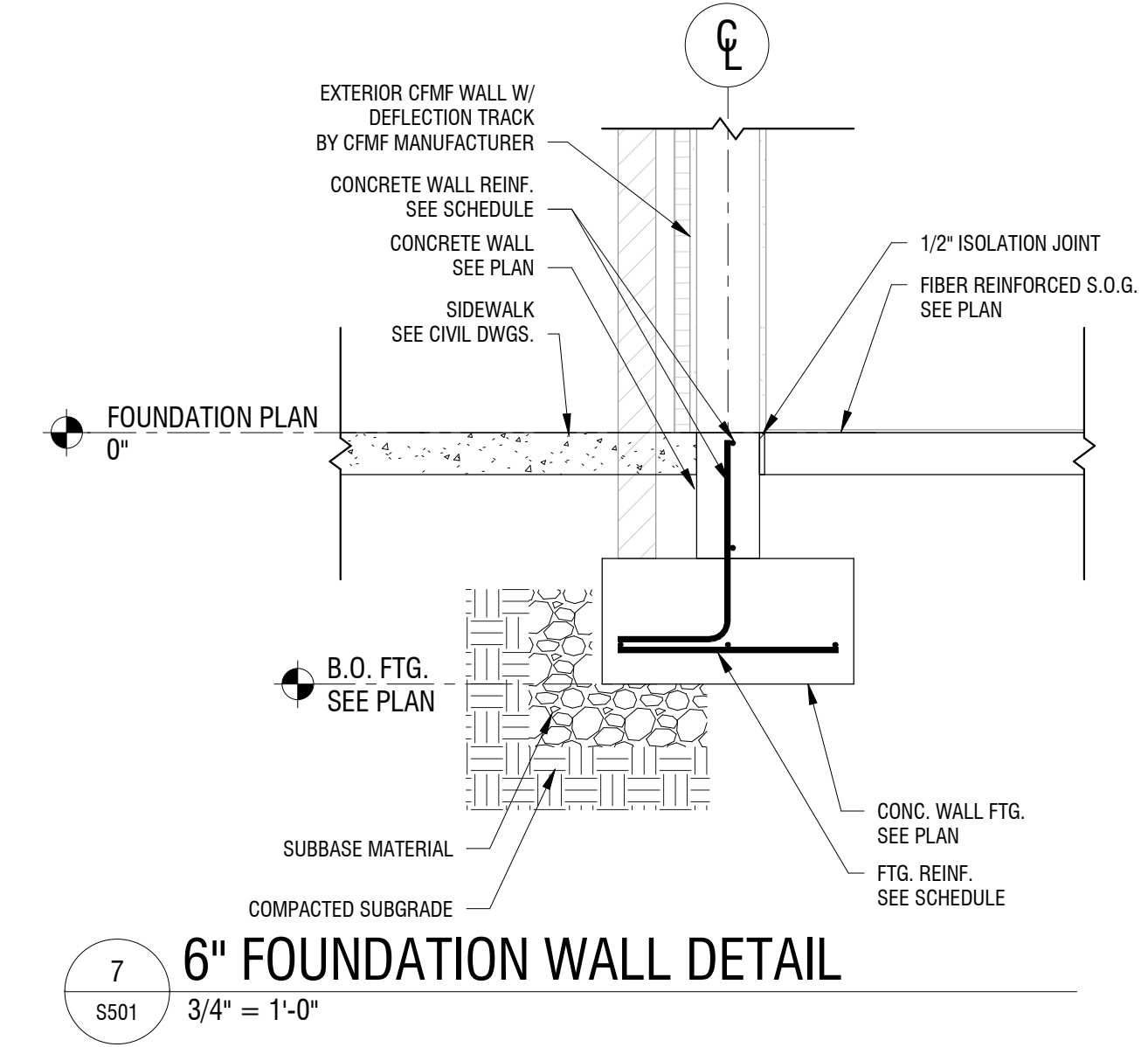
LCCU - Morrisville Site Adapt
9521 Chapel Hill Rd. Morrisville, NC 27560

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Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		JLW
REVIEWED BY:		DRH
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

FOUNDATION DETAILS

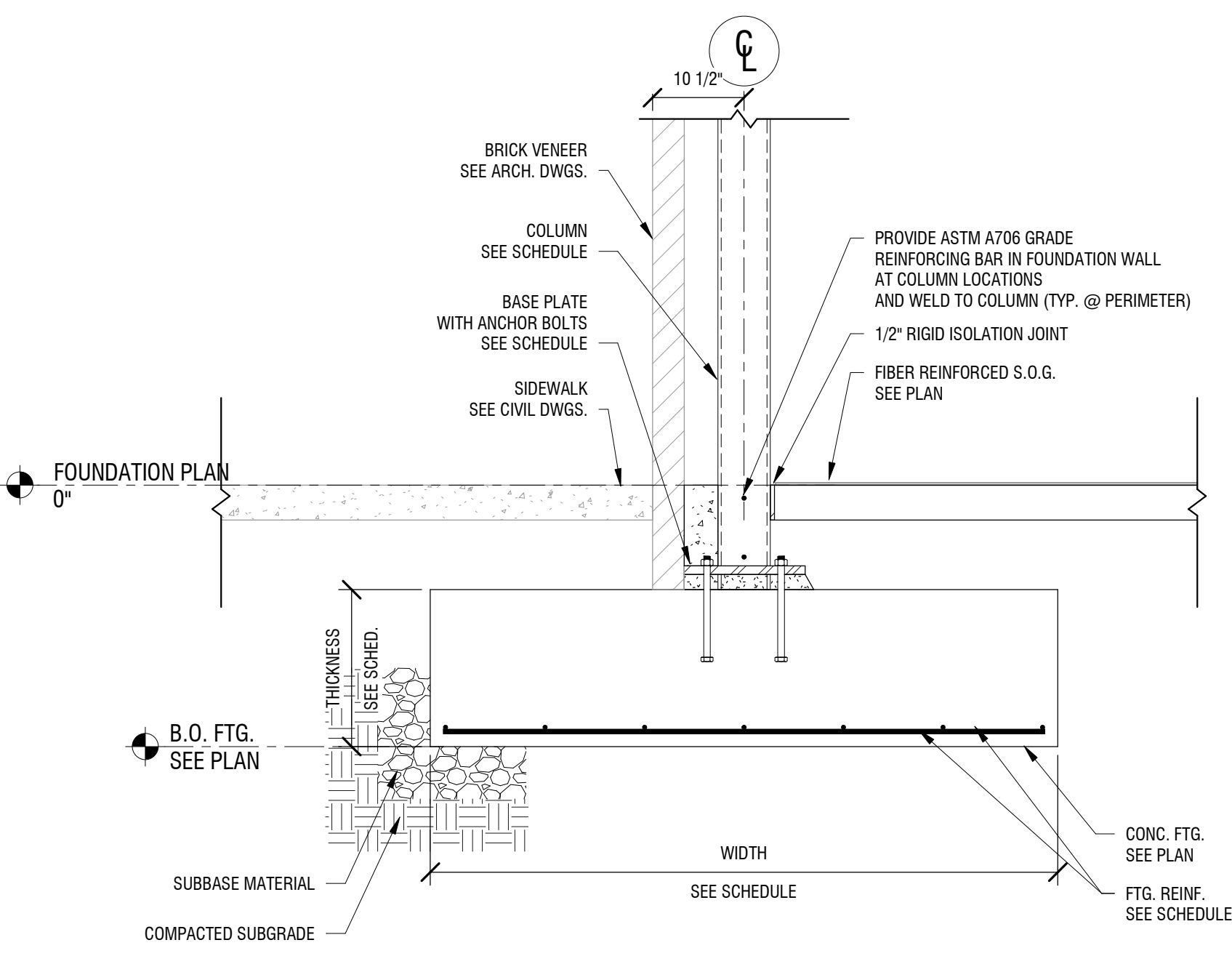
DRAWING NUMBER:

S501



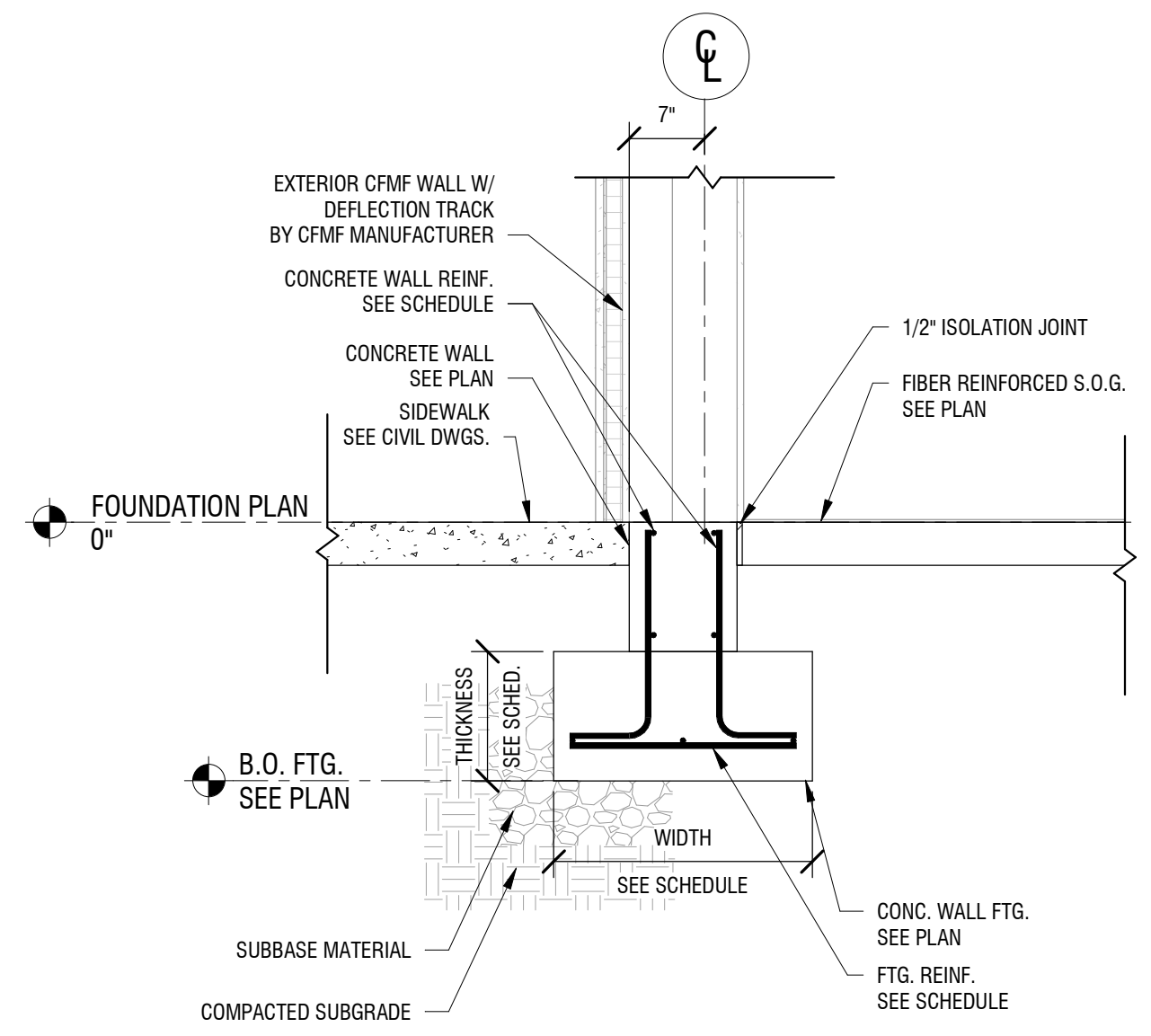
6" FOUNDATION WALL DETAIL

3/4" = 1'-0"



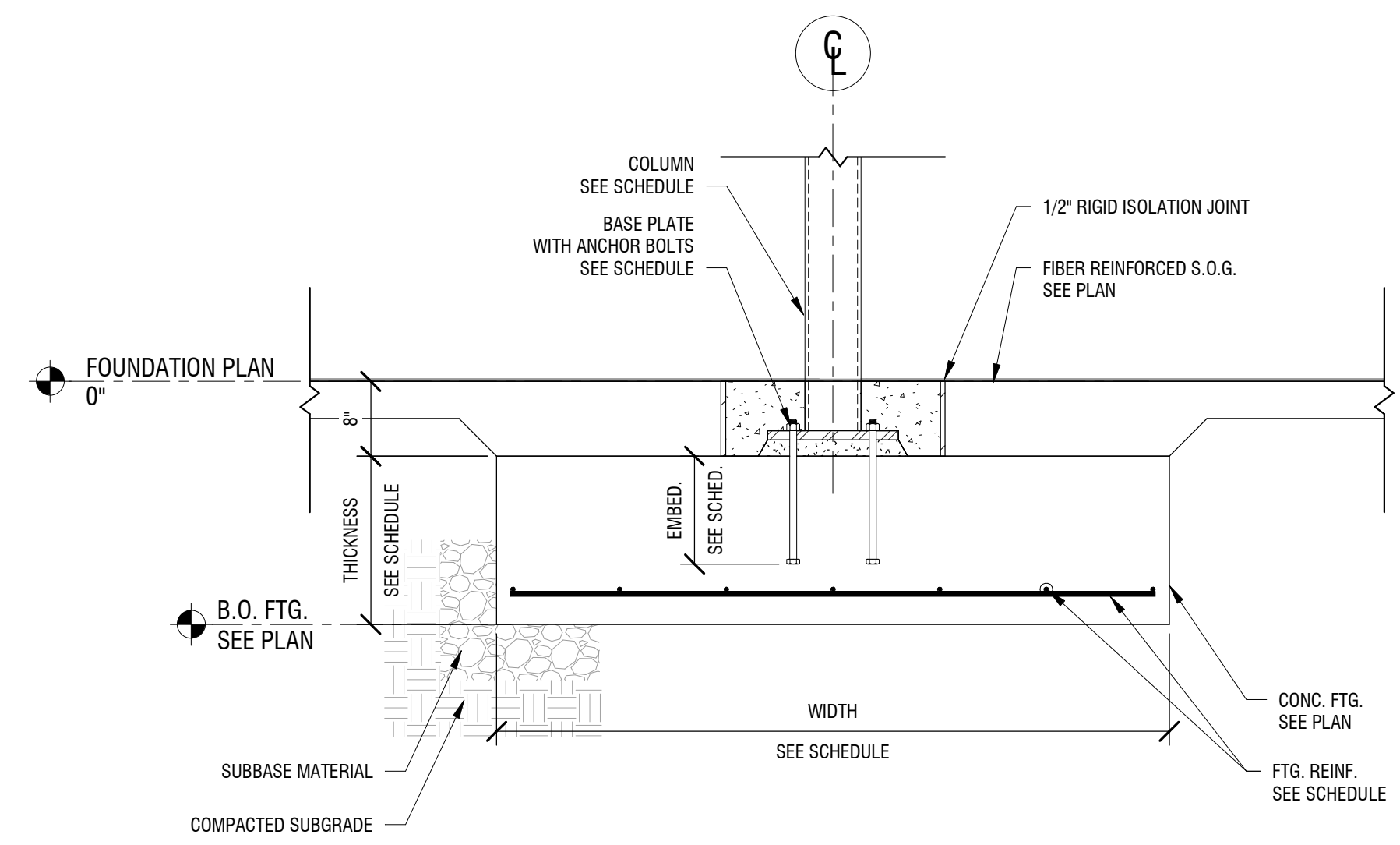
STEEL COLUMN AT BRICK SHELF FOUNDATION DETAIL

3/4" = 1'-0"



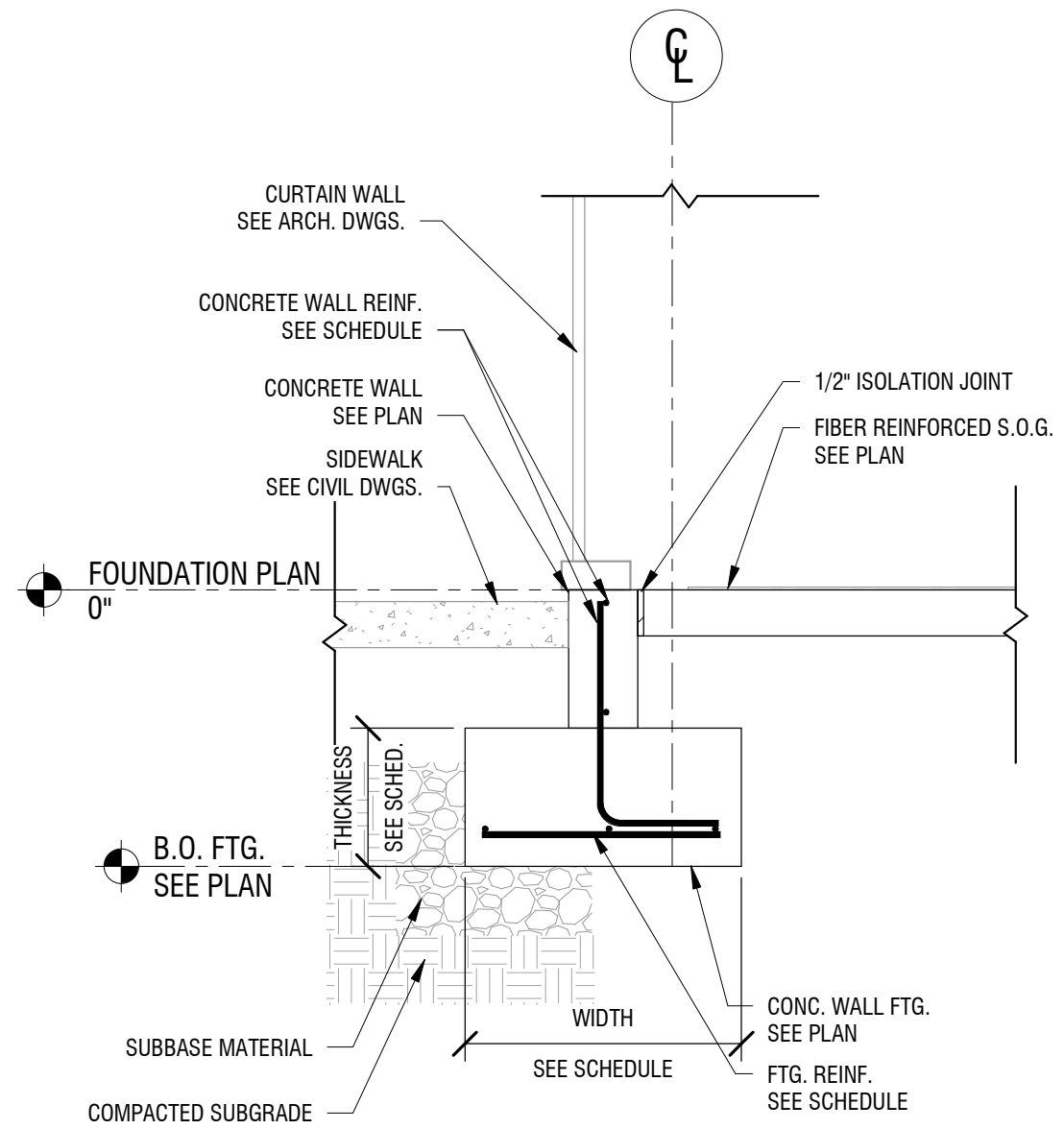
FOUNDATION WALL DETAIL

3/4" = 1'-0"



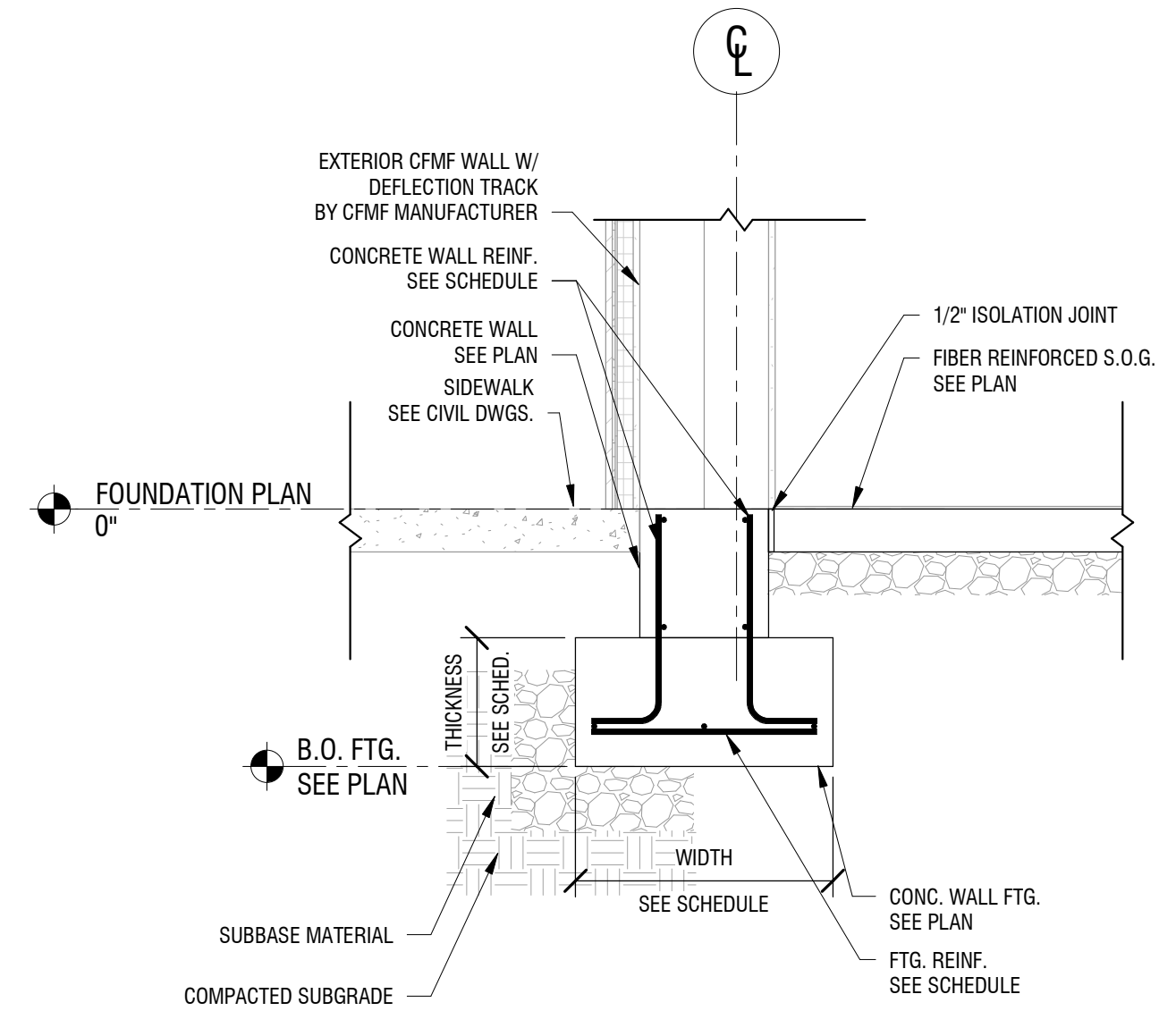
INTERIOR STEEL COLUMN FOUNDATION DETAIL

3/4" = 1'-0"



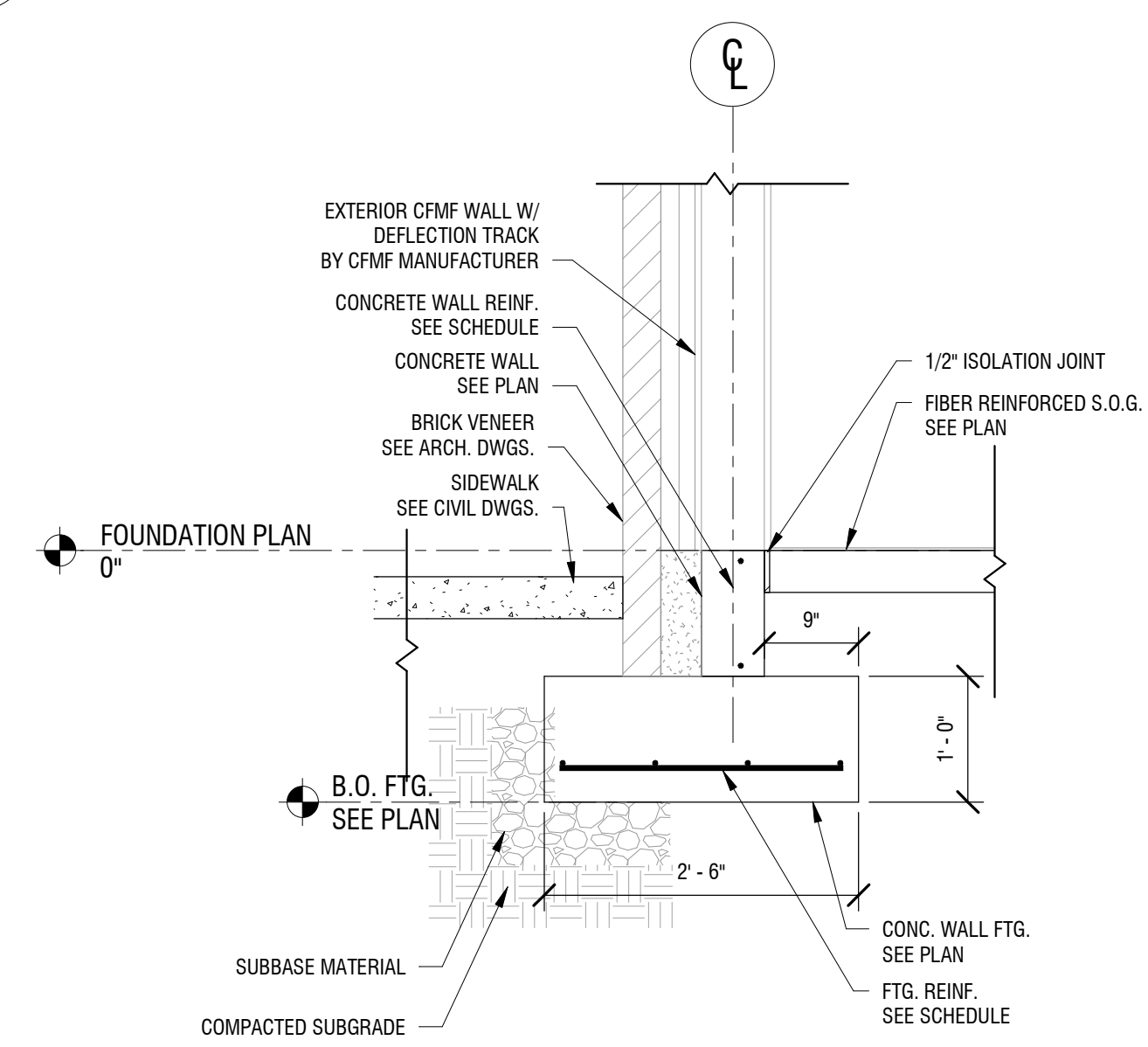
THRESHOLD DETAIL

3/4" = 1'-0"



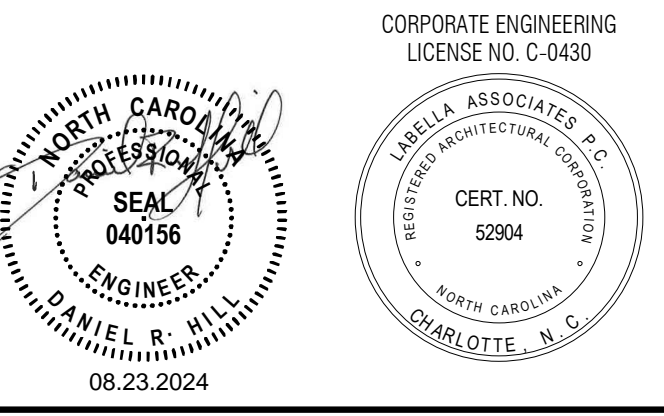
FOUNDATION WALL DETAIL

3/4" = 1'-0"



FOUNDATION WALL BRICK SHELF DETAIL

3/4" = 1'-0"



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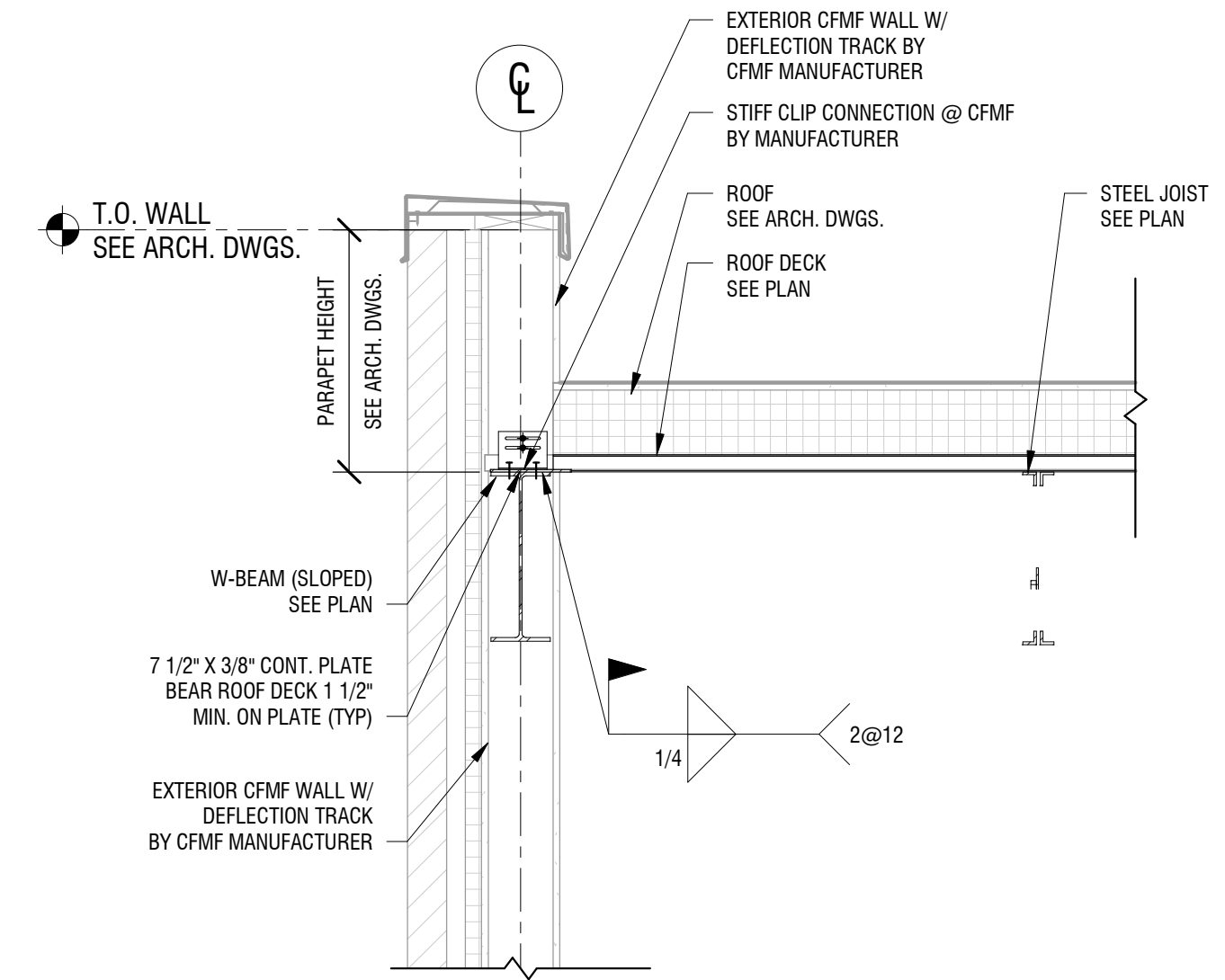
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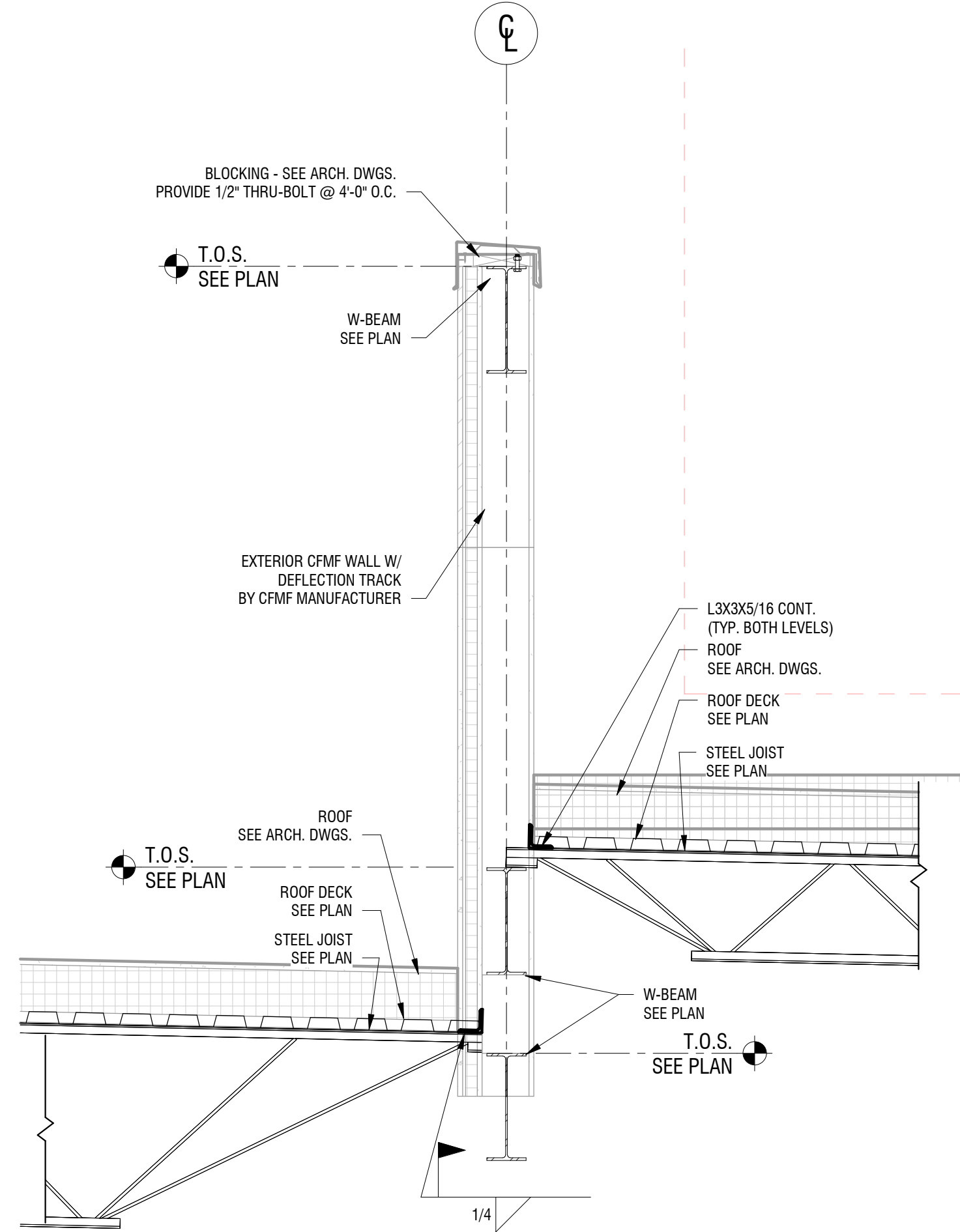
FRAMING DETAILS

DRAWING NUMBER:

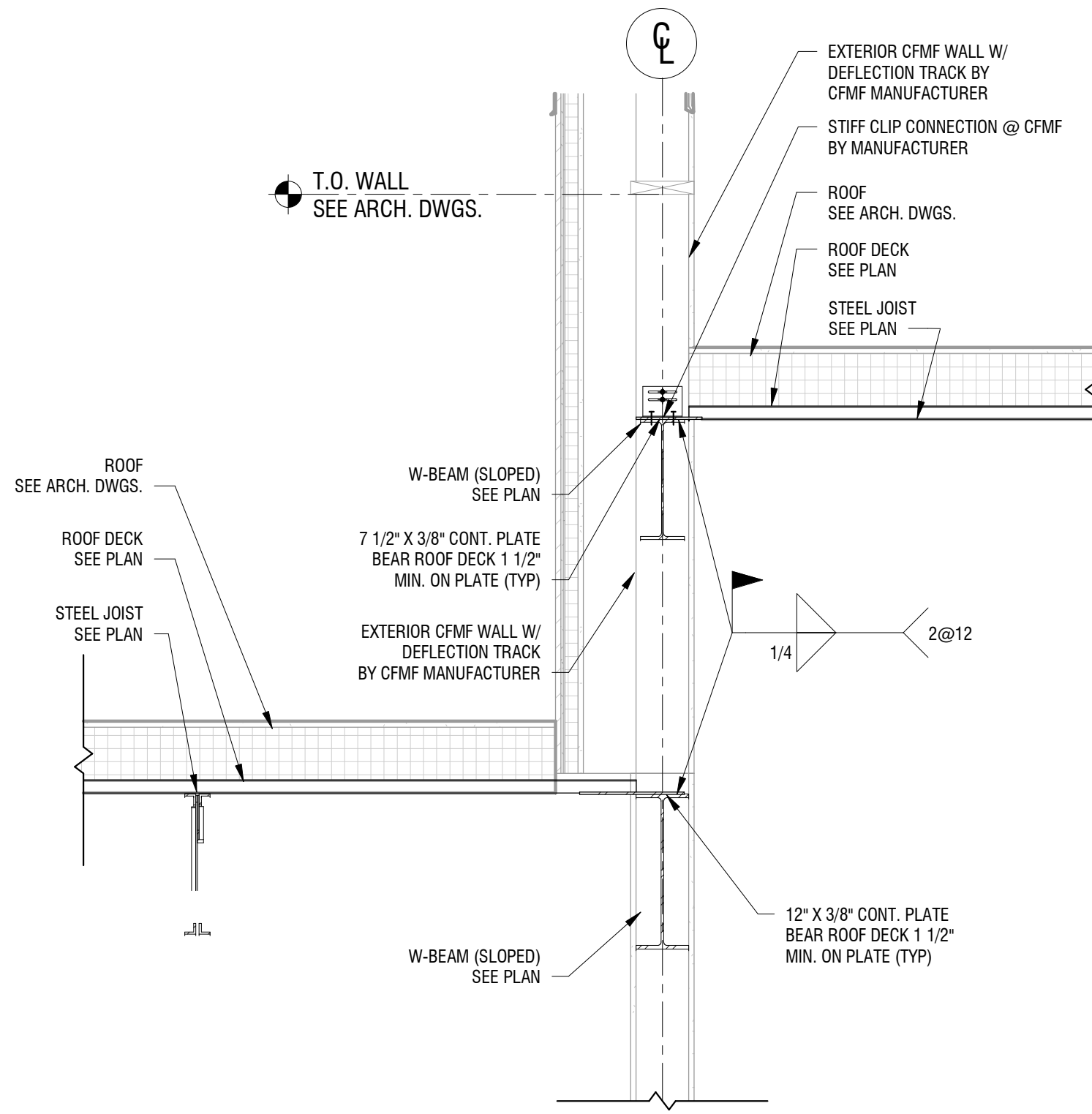
S601



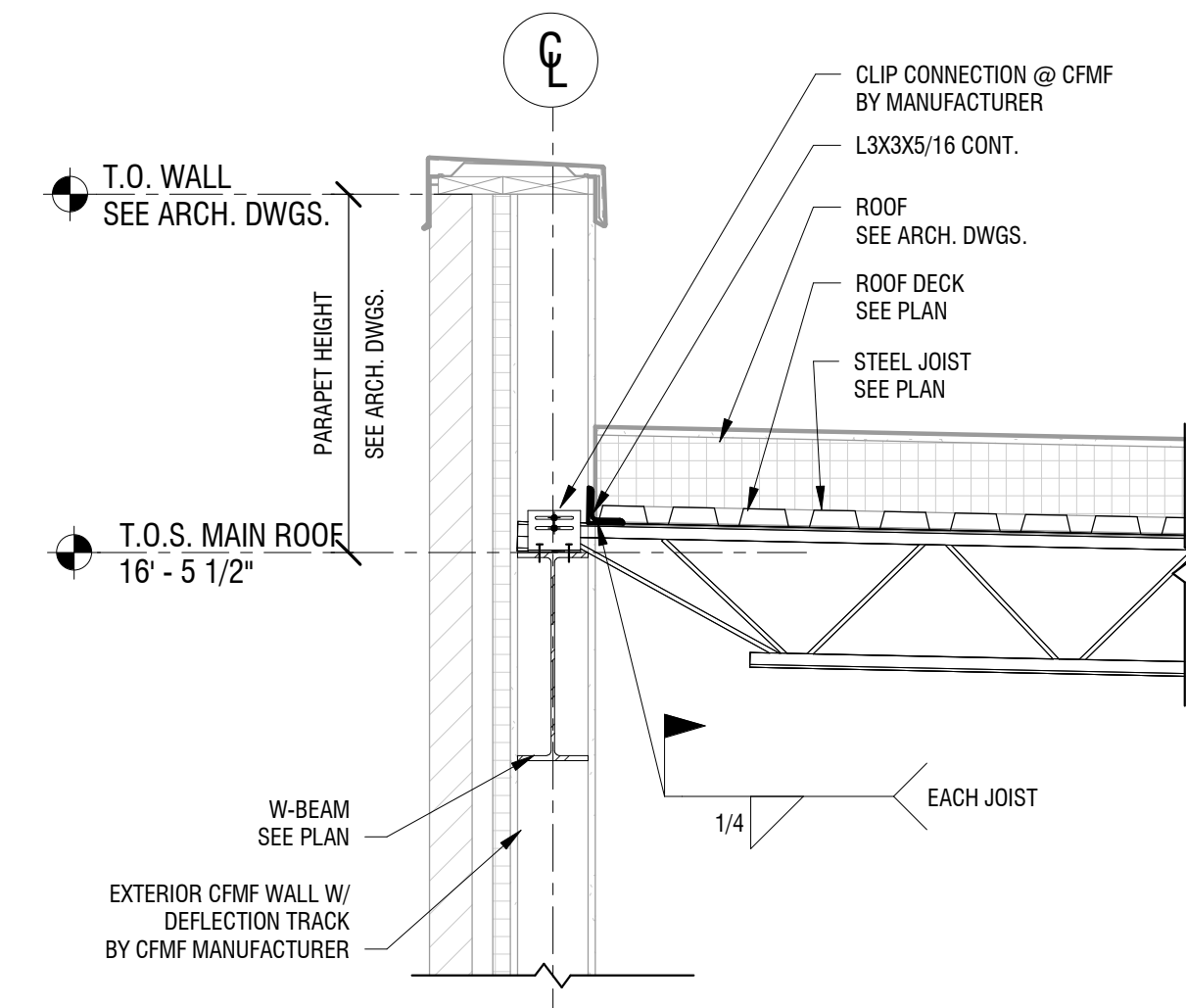
4 LOW ROOF EDGE DETAIL
3/4" = 1'-0"



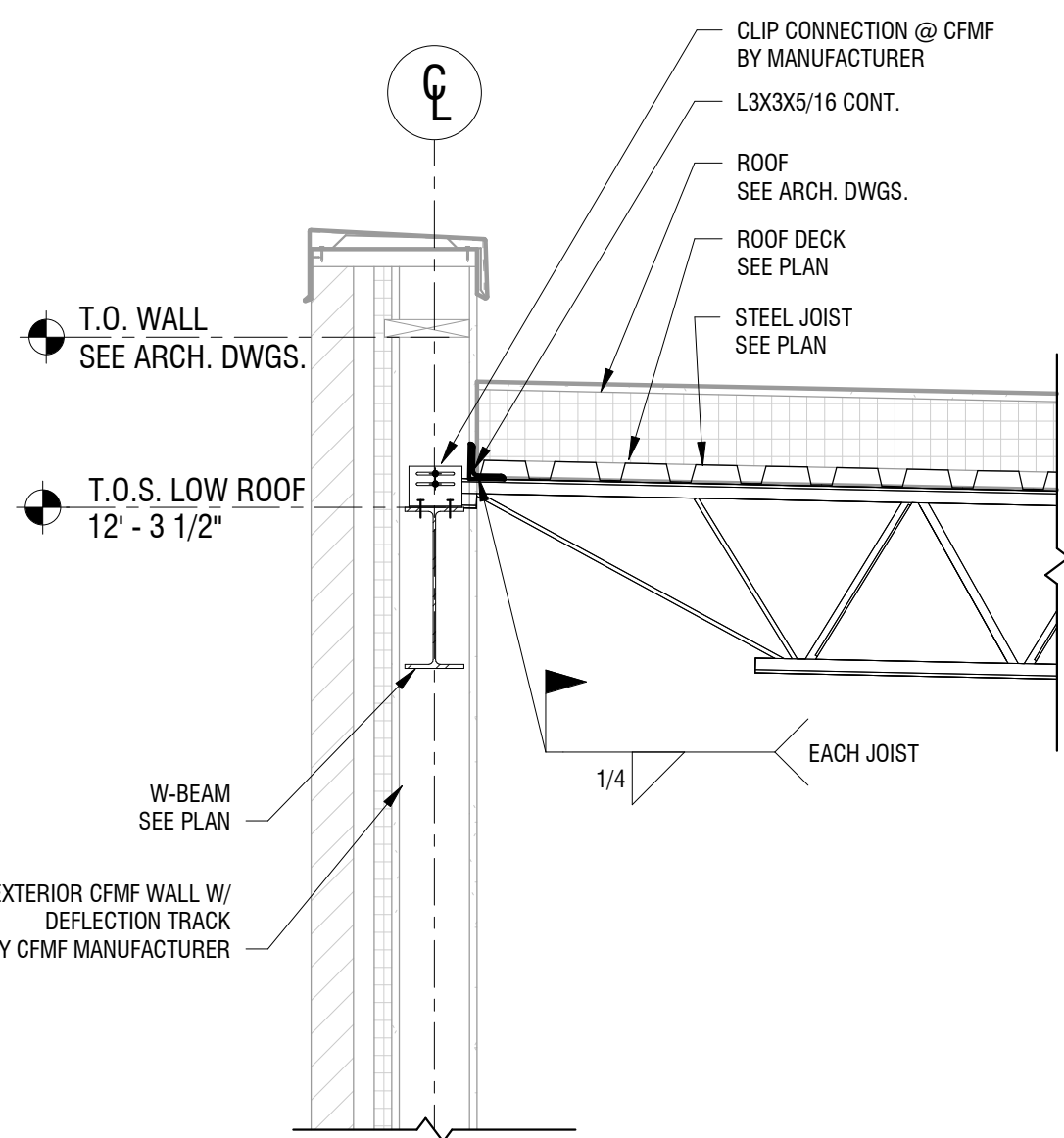
5 HIGH ROOF PARAPET DETAIL
3/4" = 1'-0"



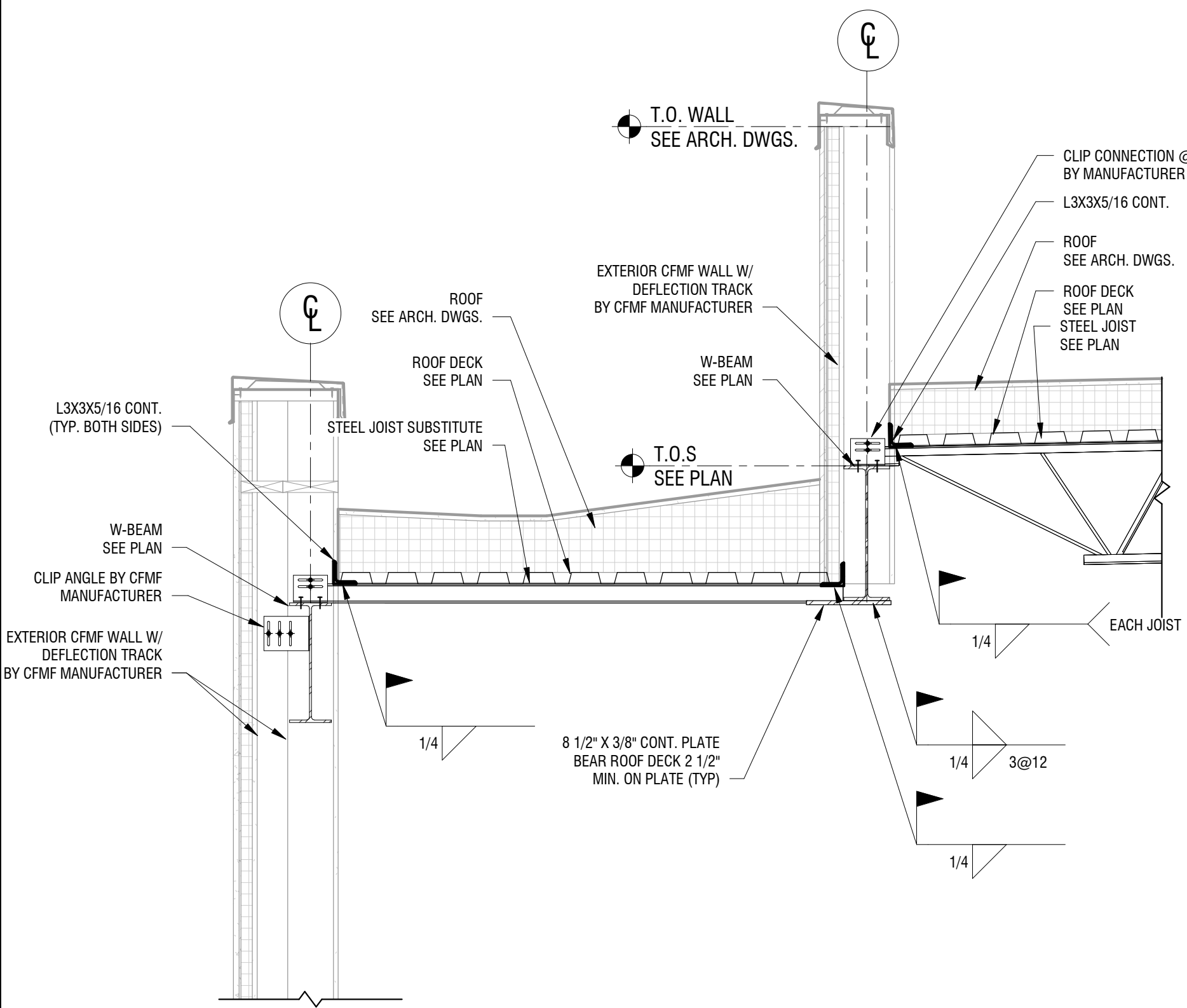
6 HIGH ROOF TO LOW ROOF EDGE DETAIL
3/4" = 1'-0"



1 MAIN ROOF FRAMING DETAIL
3/4" = 1'-0"

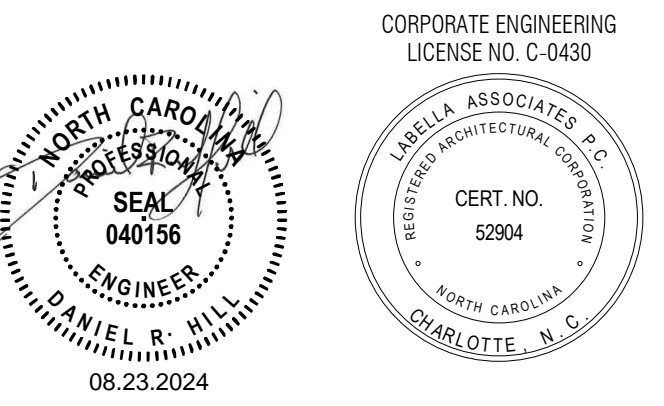


2 LOW ROOF FRAMING DETAIL
3/4" = 1'-0"



3 LOW ROOF FRAMING DETAIL.
3/4" = 1'-0"

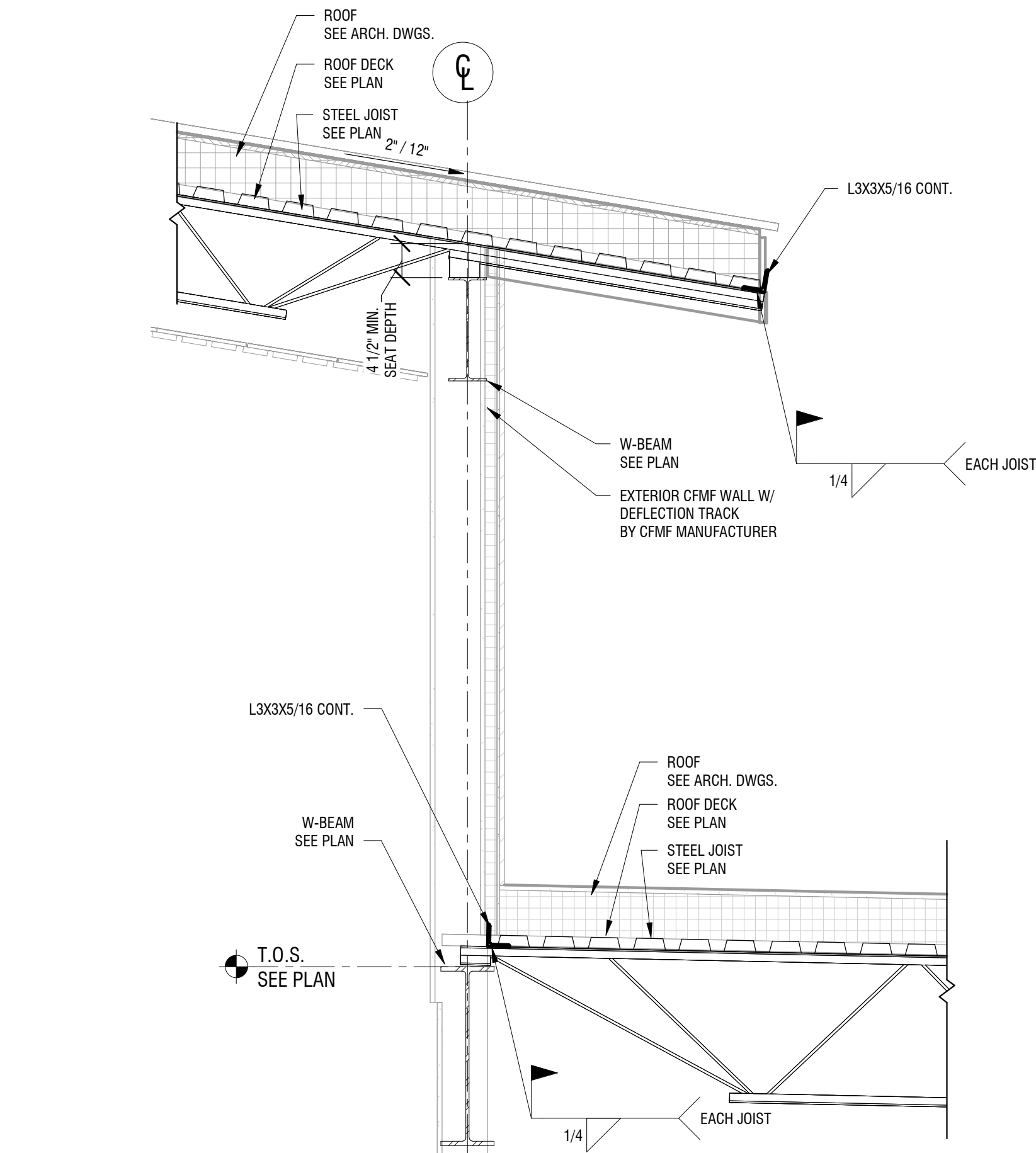
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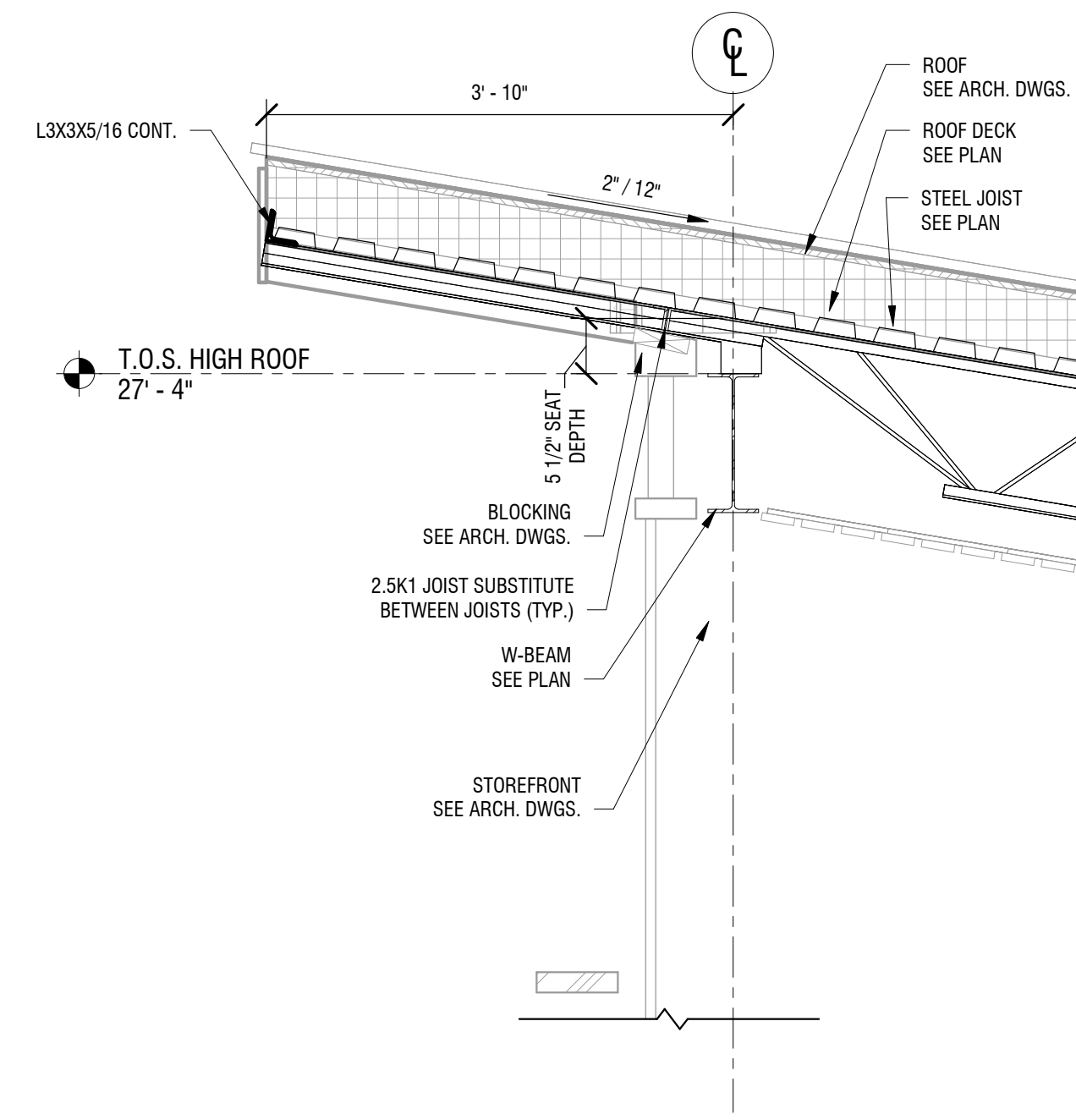
CORPORATE ENGINEERING
LICENSE NO. C-0430



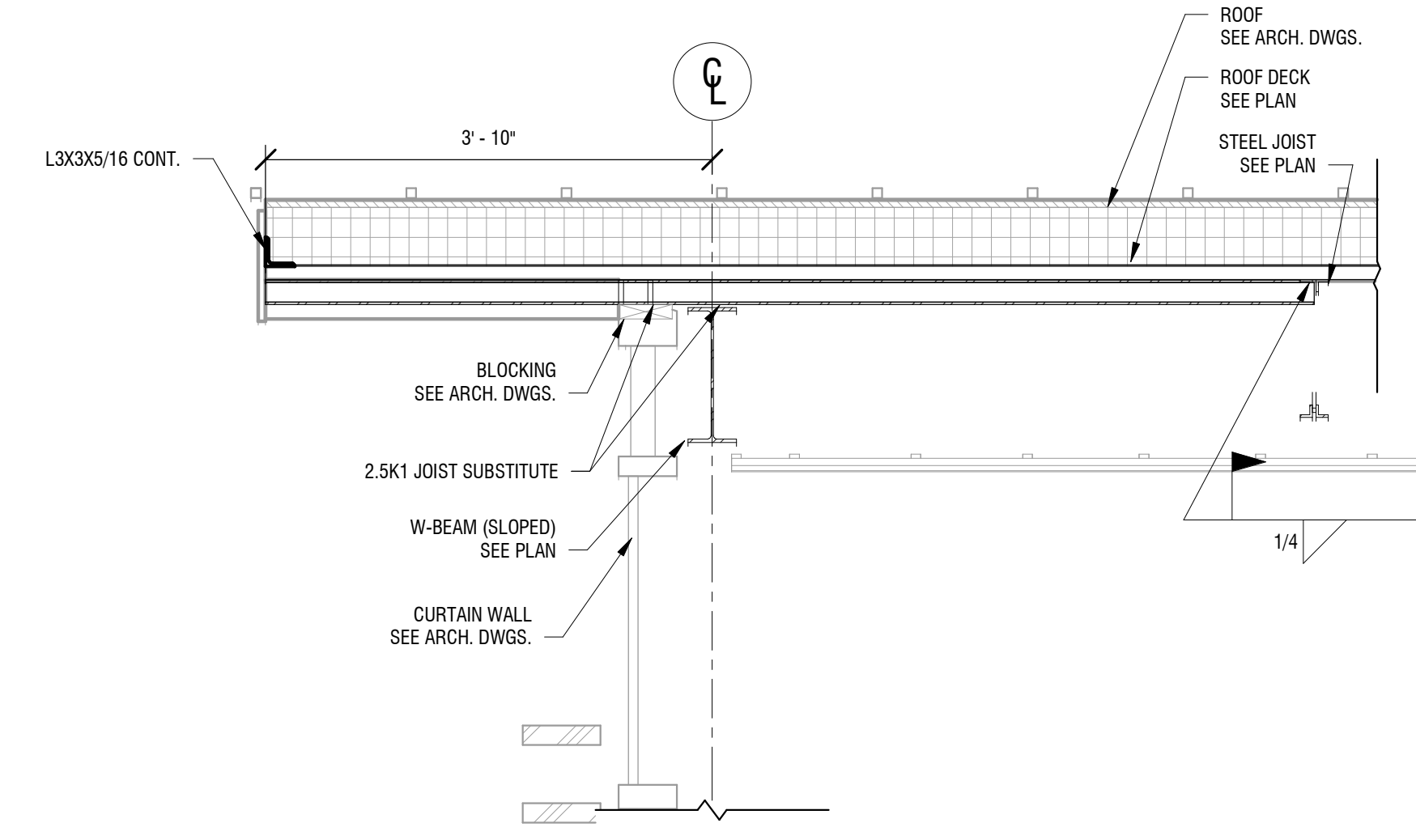
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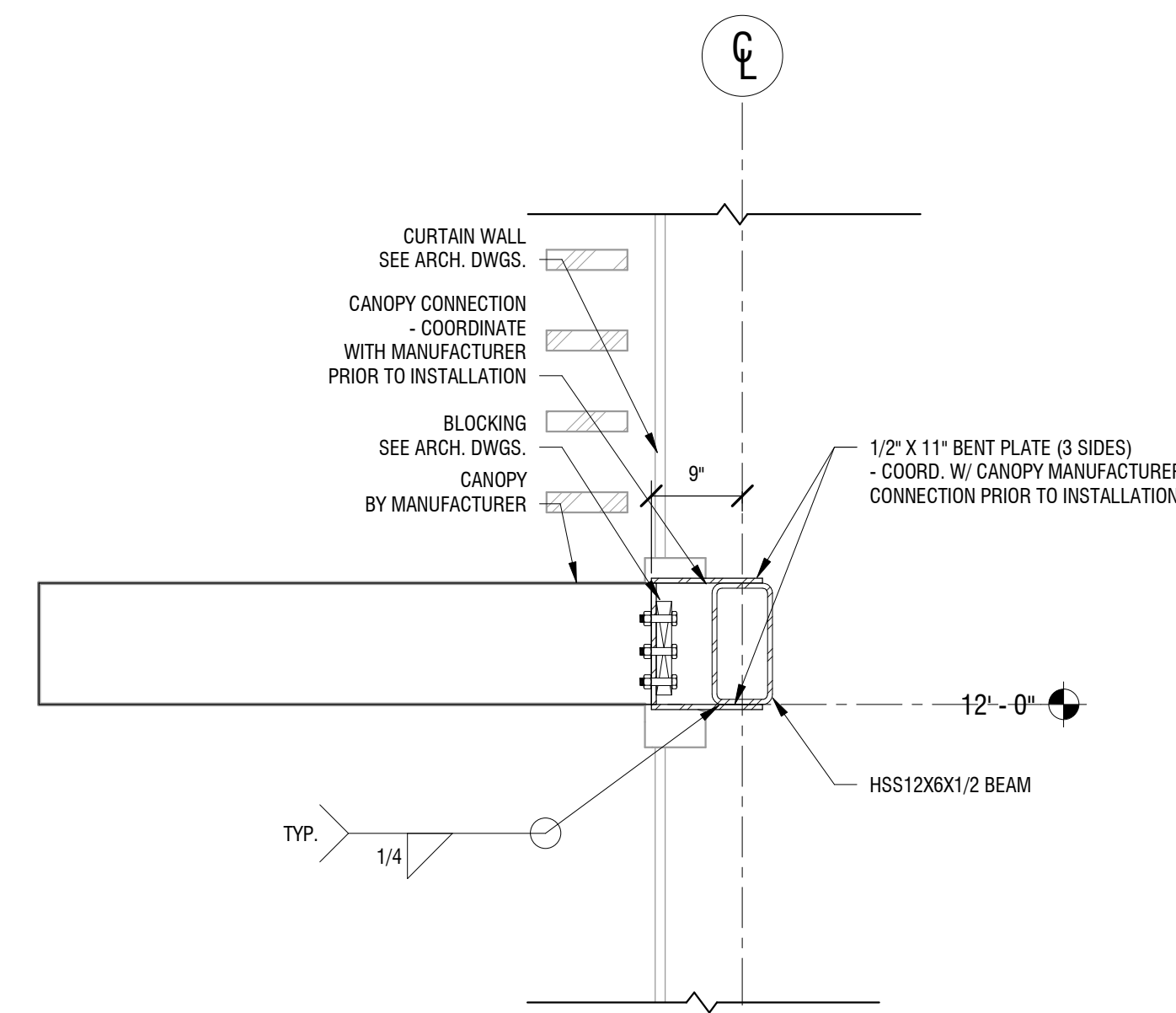
5 HIGH ROOF FRAMING DETAIL
S602 3/4" = 1'-0"



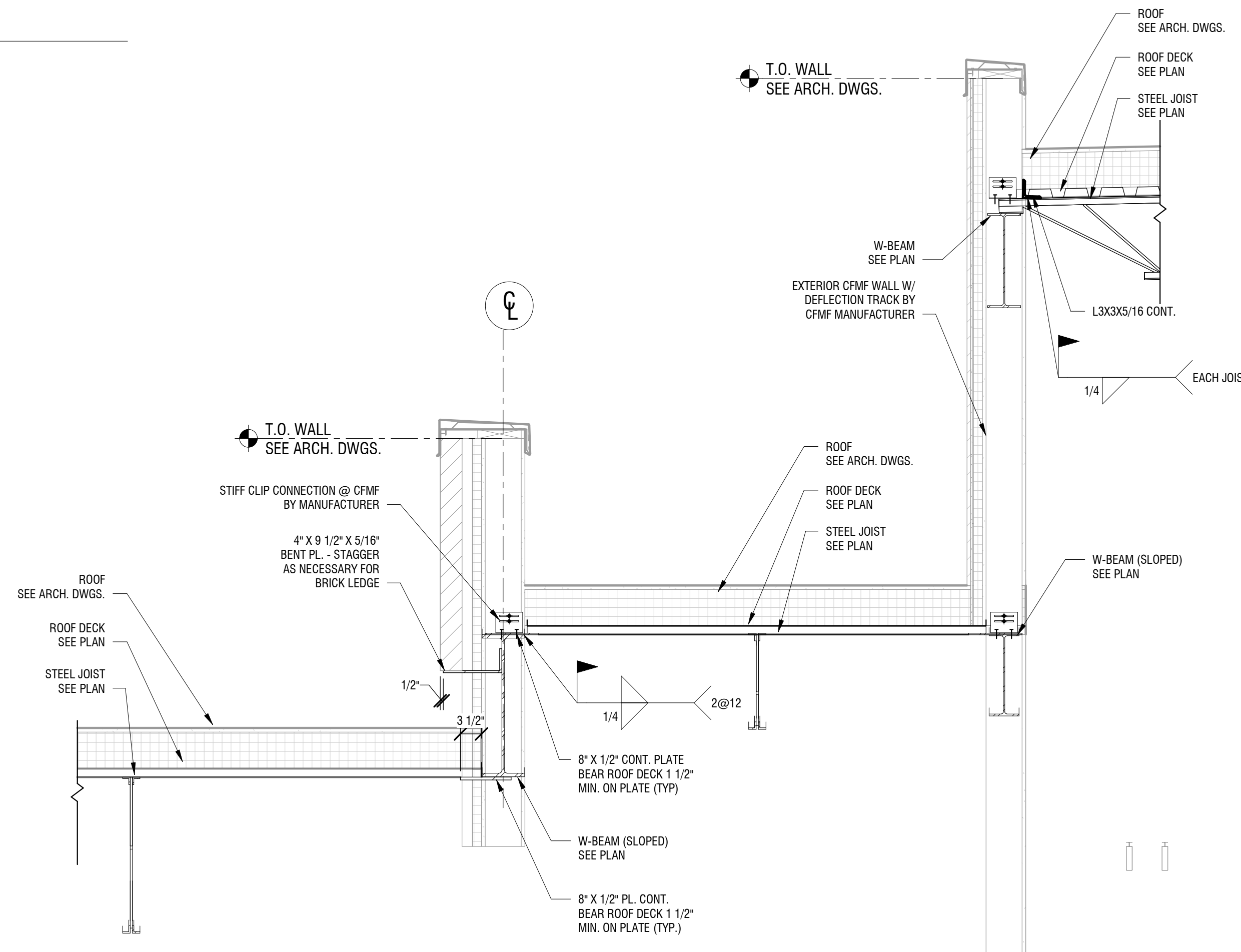
6 HIGH ROOF STOREFRONT FRAMING DETAIL
S602 3/4" = 1'-0"



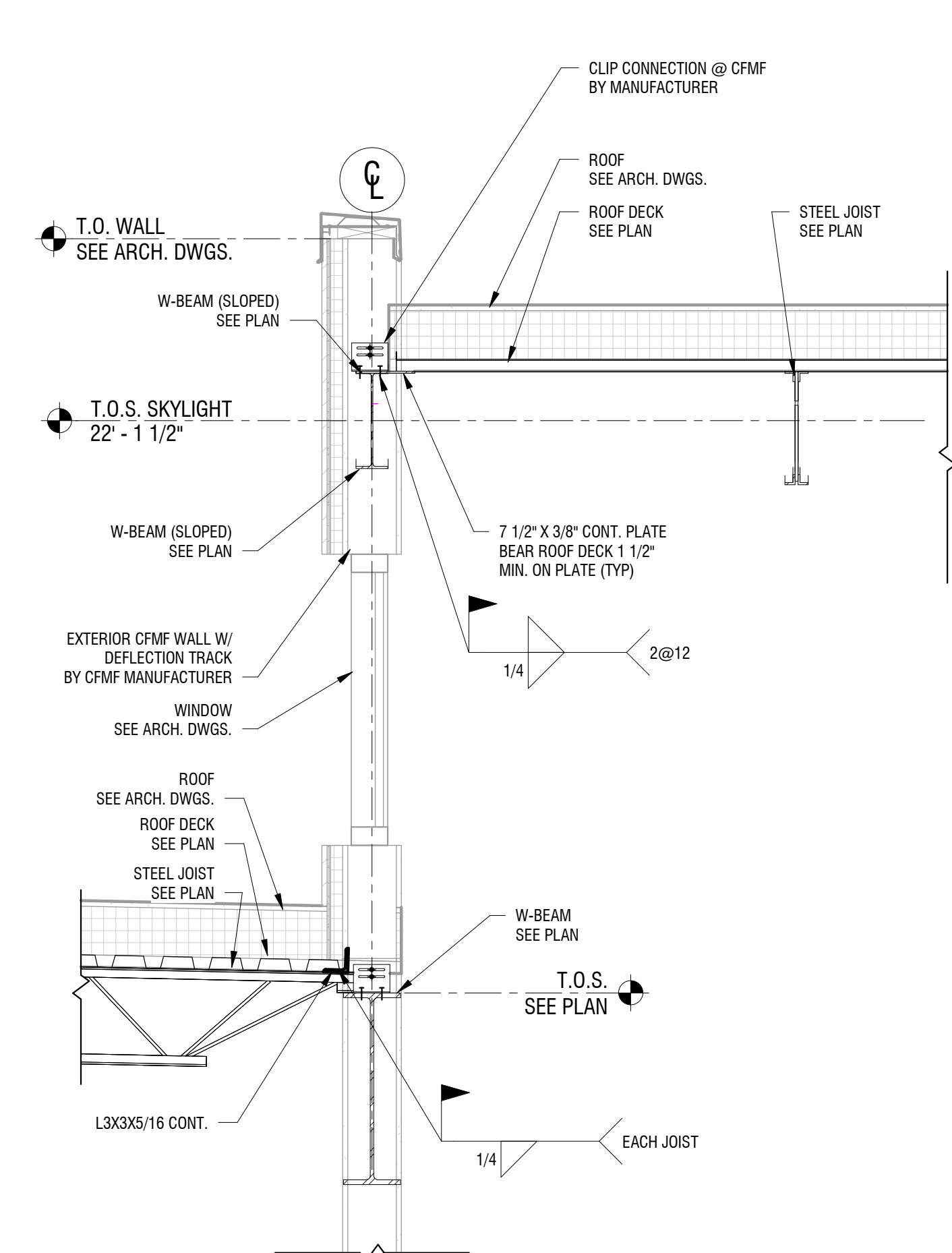
4 HIGH ROOF EDGE DETAIL
S602 3/4" = 1'-0"



3 STOREFRONT CANOPY DETAIL
S602 3/4" = 1'-0"



2 SKYLIGHT ROOF EDGE DETAIL
S602 3/4" = 1'-0"



1 SKYLIGHT FRAMING DETAIL
S602 3/4" = 1'-0"

LCCU - Morrisville Site Adapt
9521 Chapel Hill Rd. Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: JLW

REVIEWED BY: DRH

ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NAME:

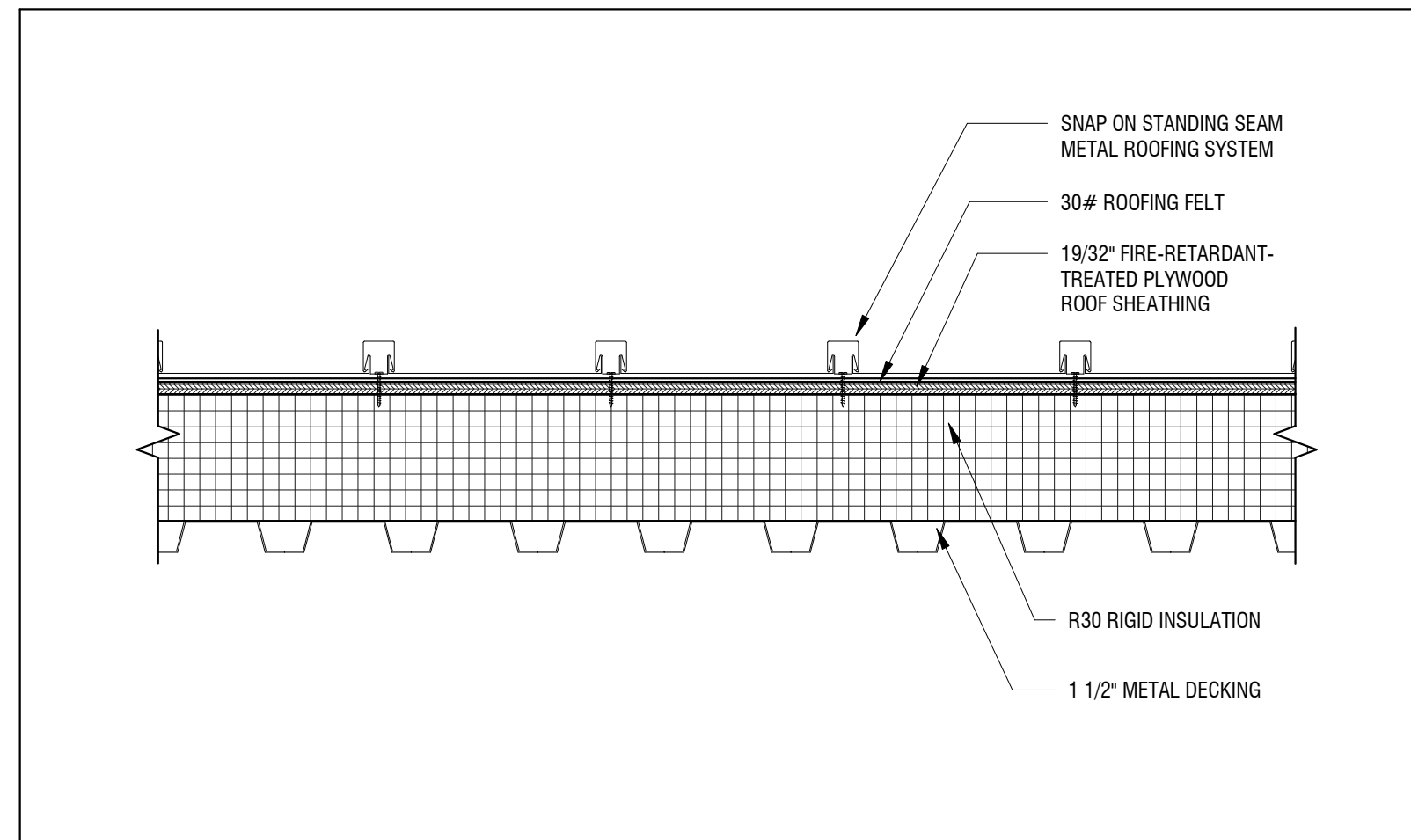
FRAMING DETAILS

DRAWING NUMBER:

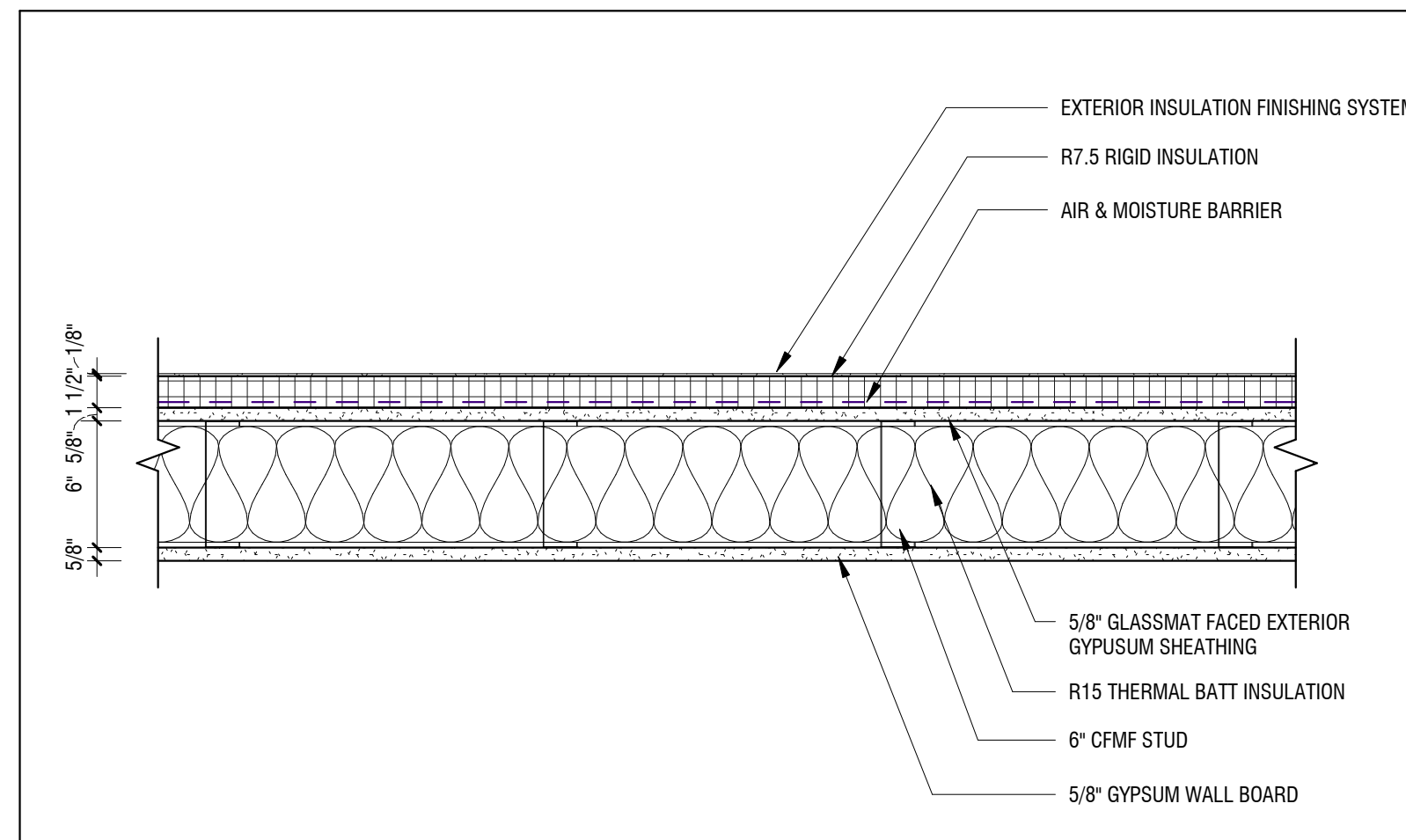
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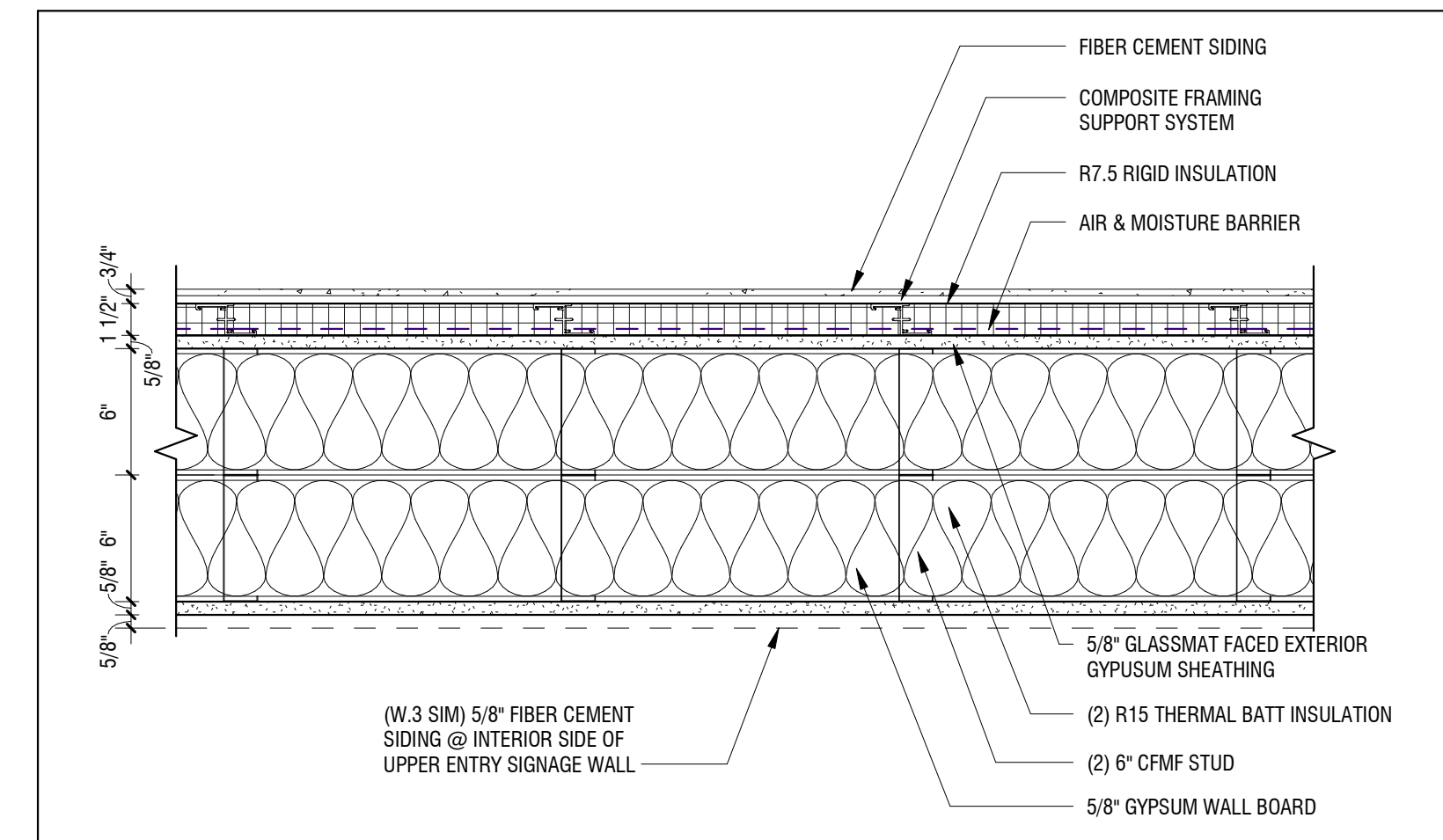
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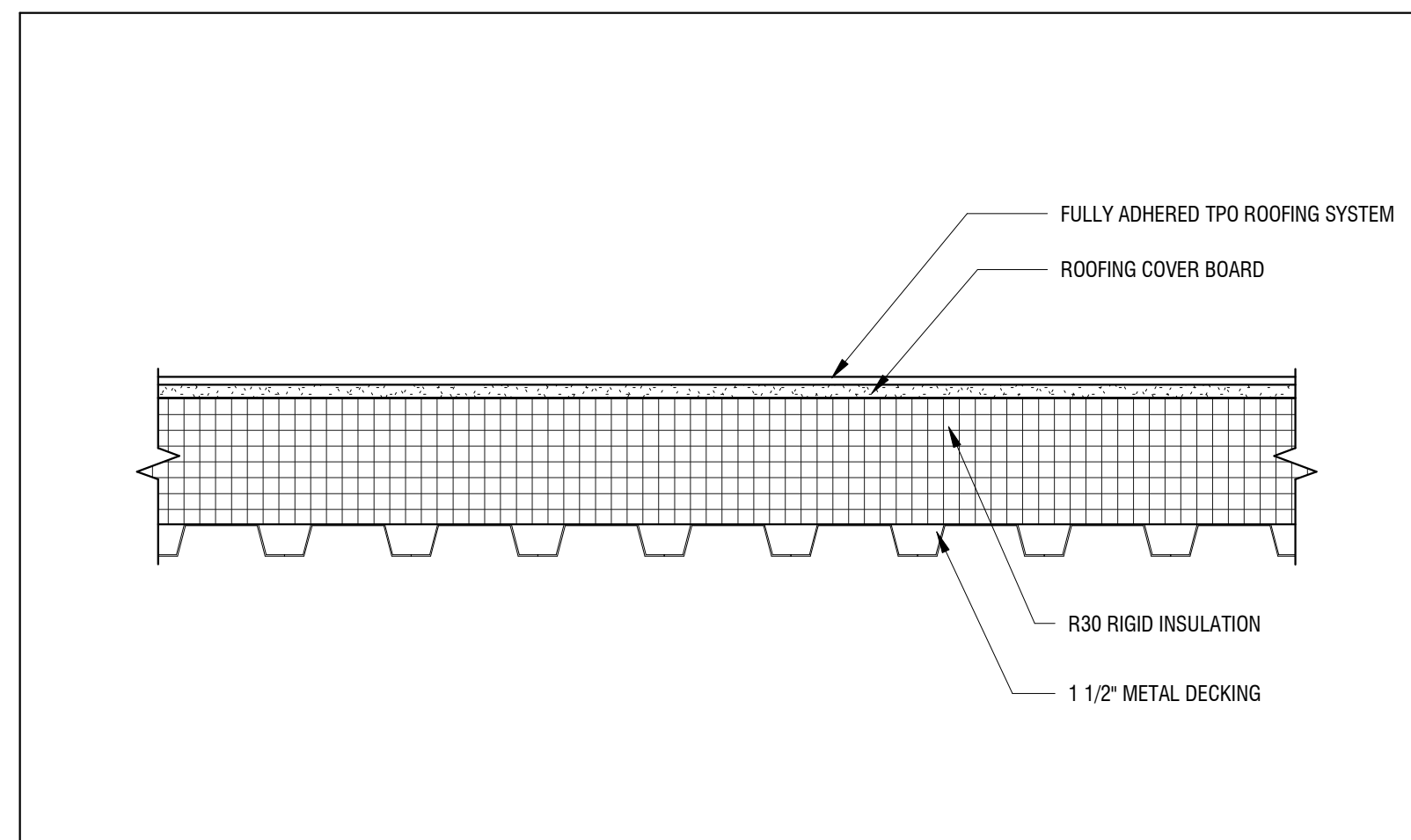
R2 **STANDING SEAM ROOF O/ METAL DECK**
1 1/2" = 1'-0"



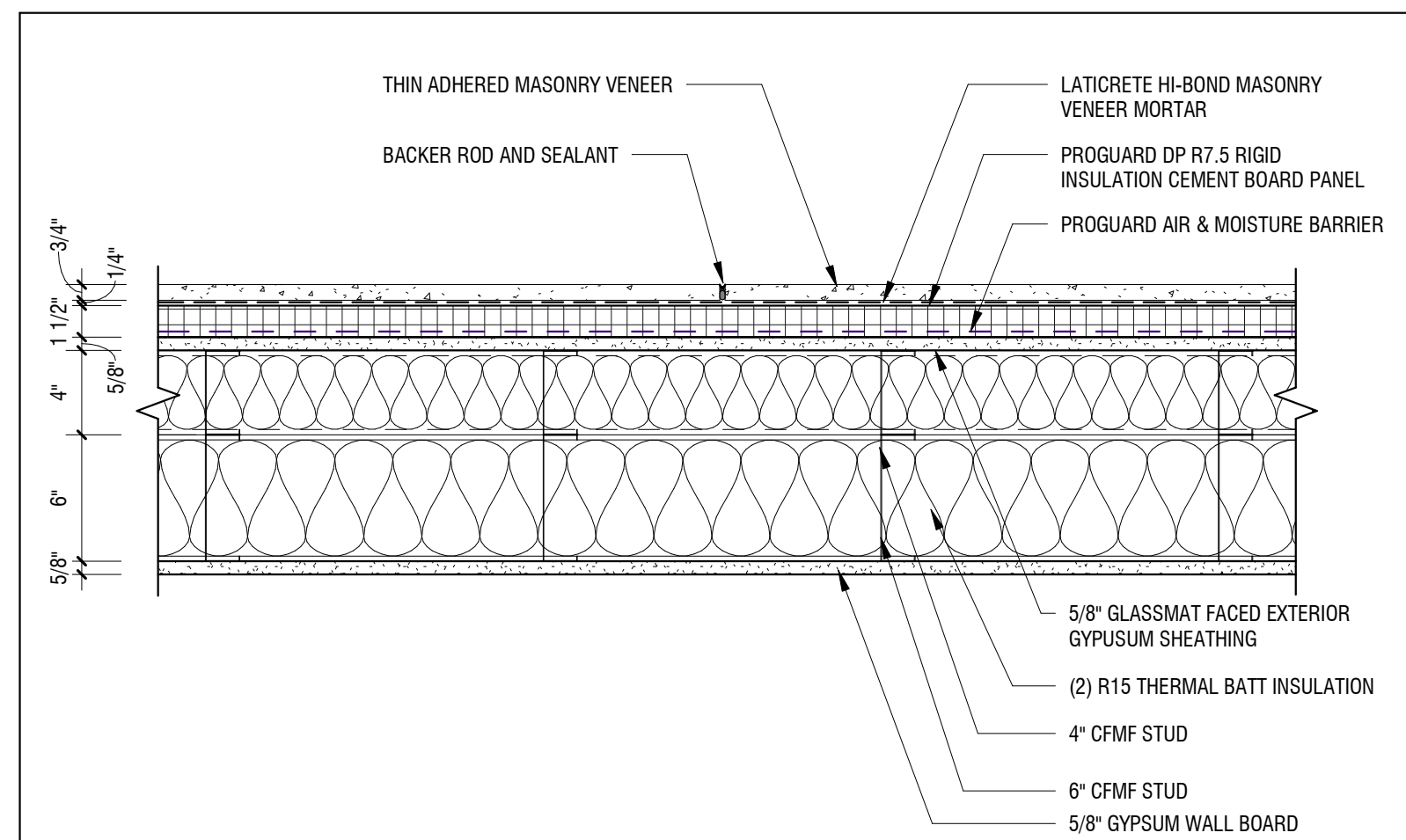
W6 **EXT. WALL - EIFS**
1 1/2" = 1'-0"



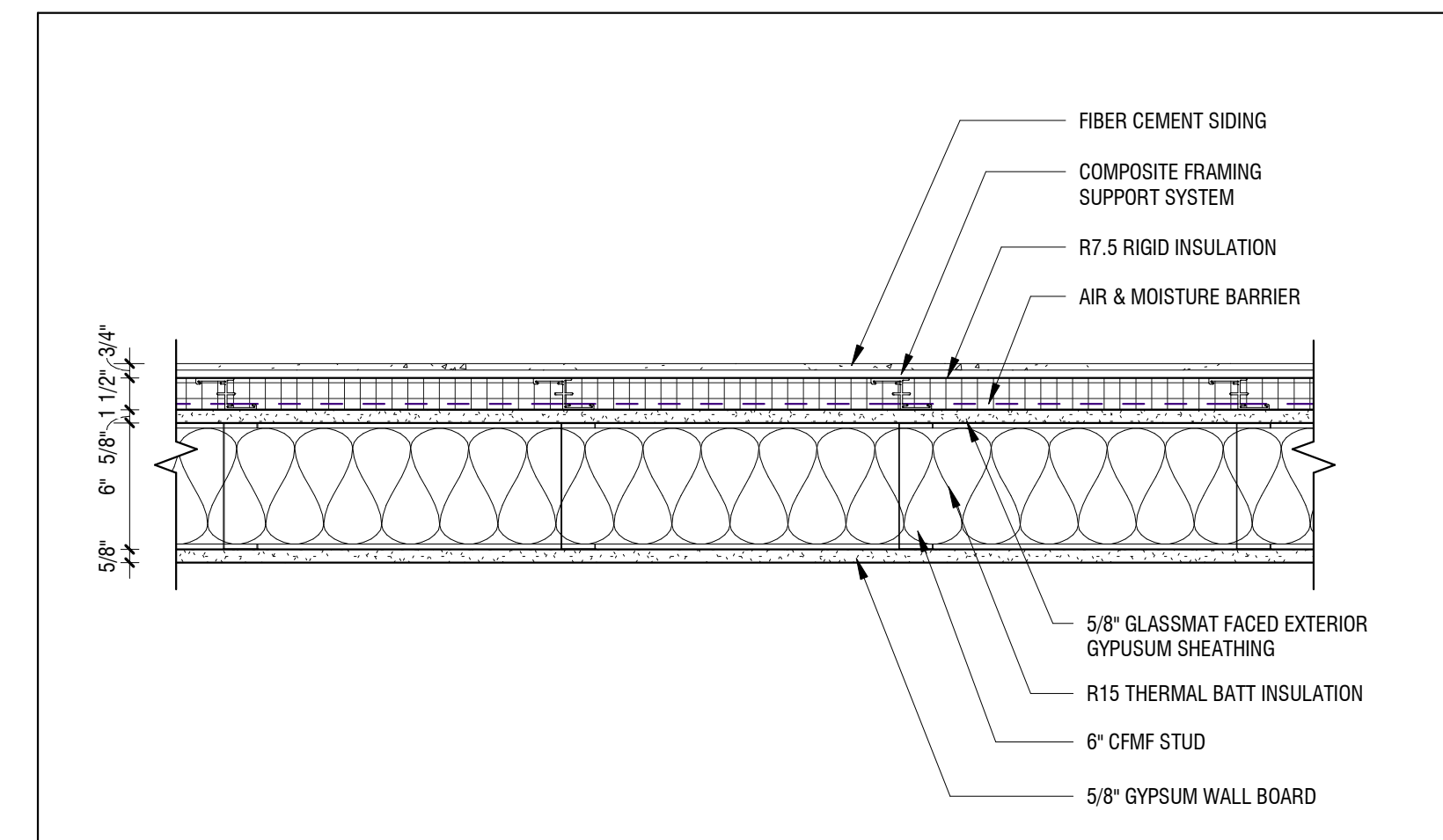
W3 **EXT. WALL - FIBER CEMENT CEDAR**
1 1/2" = 1'-0"



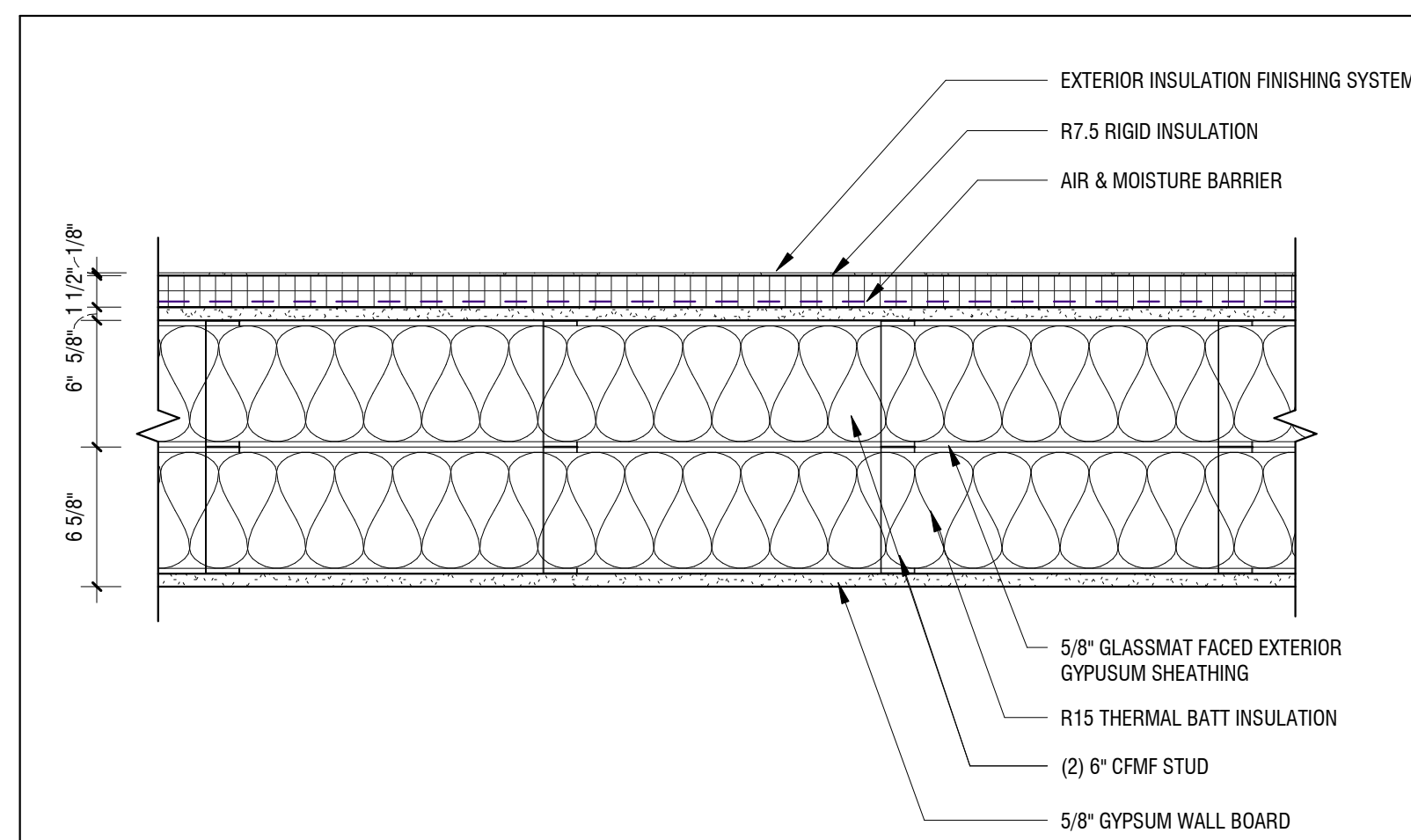
R1 **TPO ROOF W/ RIGID O/ METAL DECK**
1 1/2" = 1'-0"



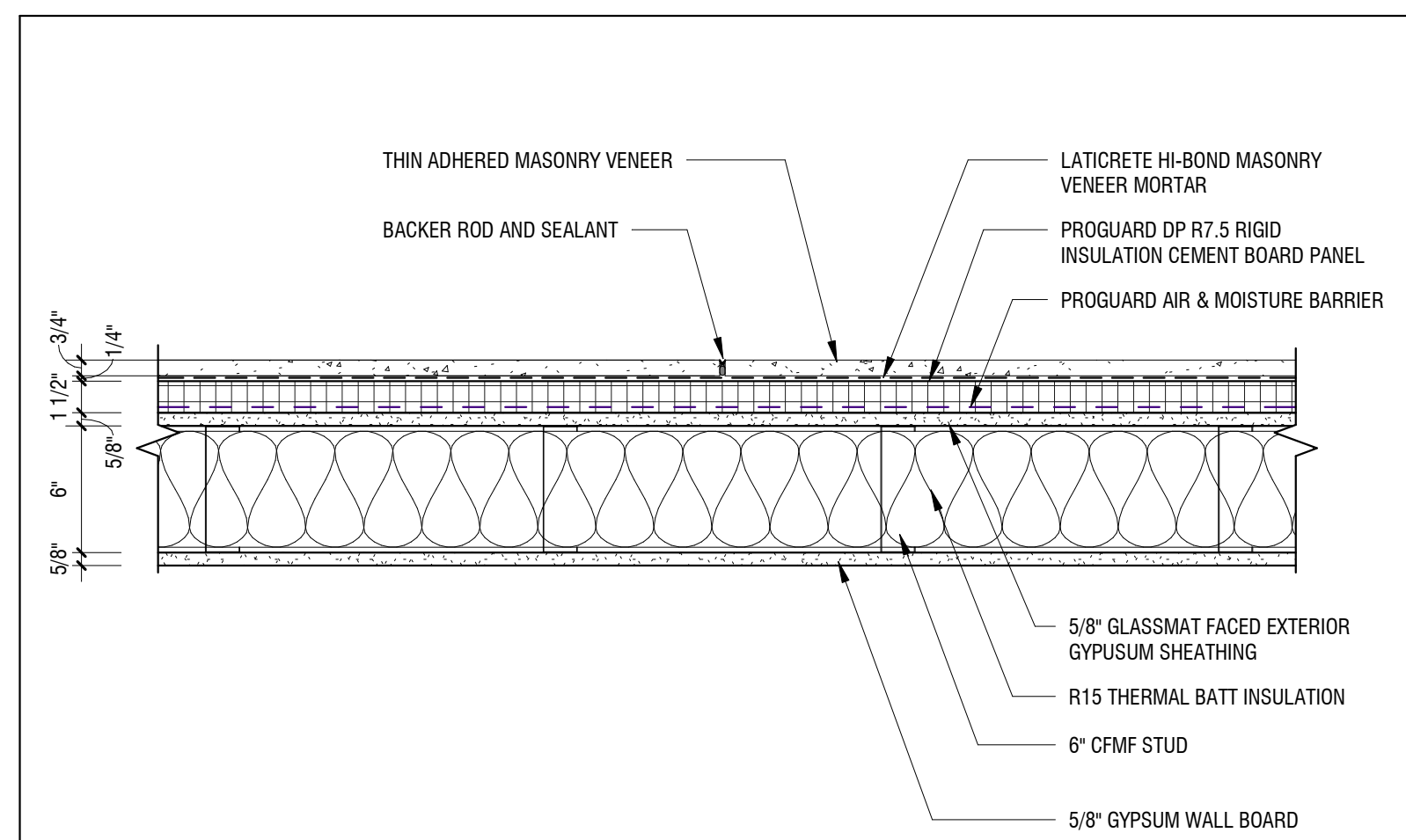
W5 **EXT. WALL - FIBER CEMENT EMPIRE BLOCK**
1 1/2" = 1'-0"



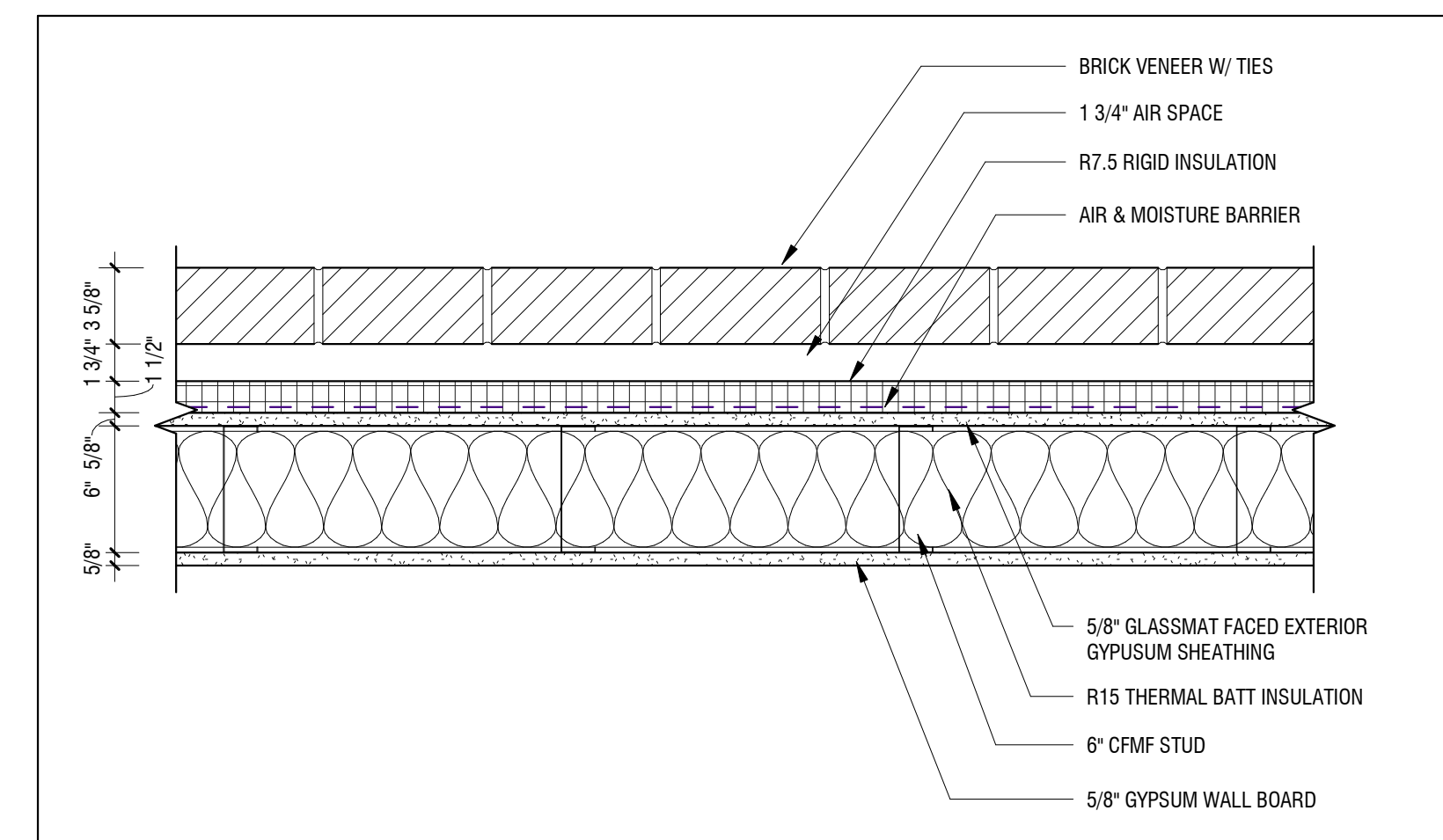
W2 **EXT. WALL - FIBER CEMENT CEDAR**
1 1/2" = 1'-0"



W7 **EXT. WALL - EIFS**
1 1/2" = 1'-0"



W4 **EXT. WALL - FIBER CEMENT EMPIRE BLOCK**
1 1/2" = 1'-0"



W1 **EXT. WALL - BRICK VENEER**
1 1/2" = 1'-0"

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9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: BAW

REVIEWED BY: GGA

ISSUED FOR: BID SET

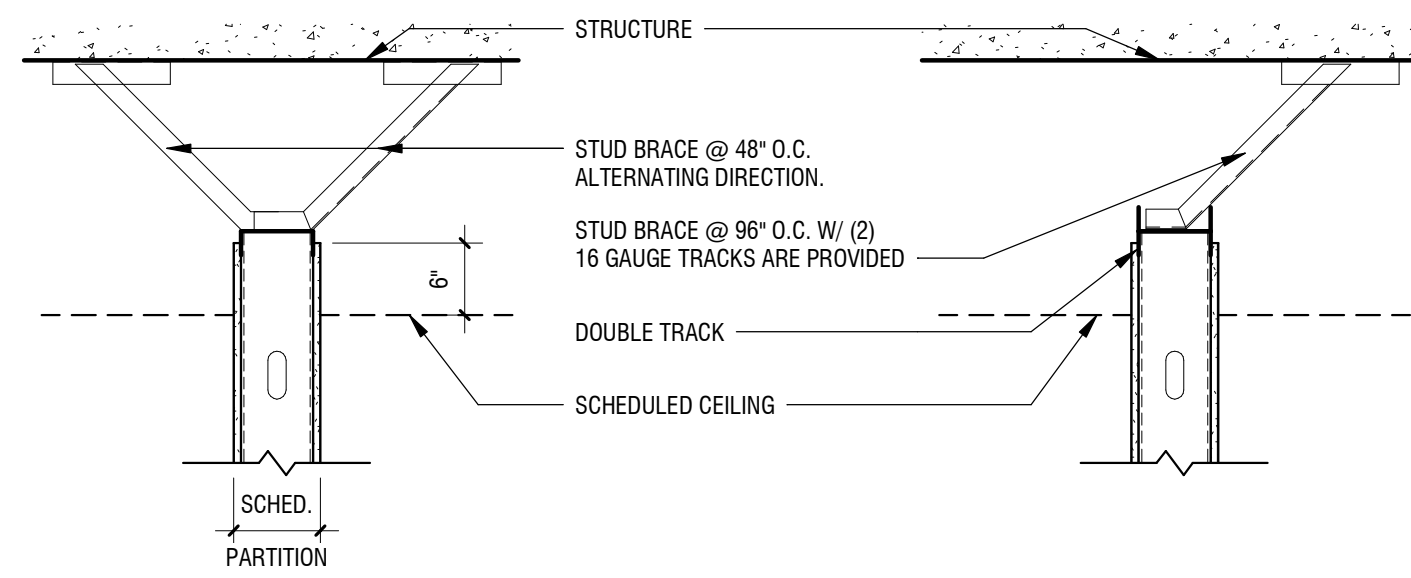
DATE: 08.23.2024

DRAWING NAME:

ASSEMBLY TYPES

DRAWING NUMBER:

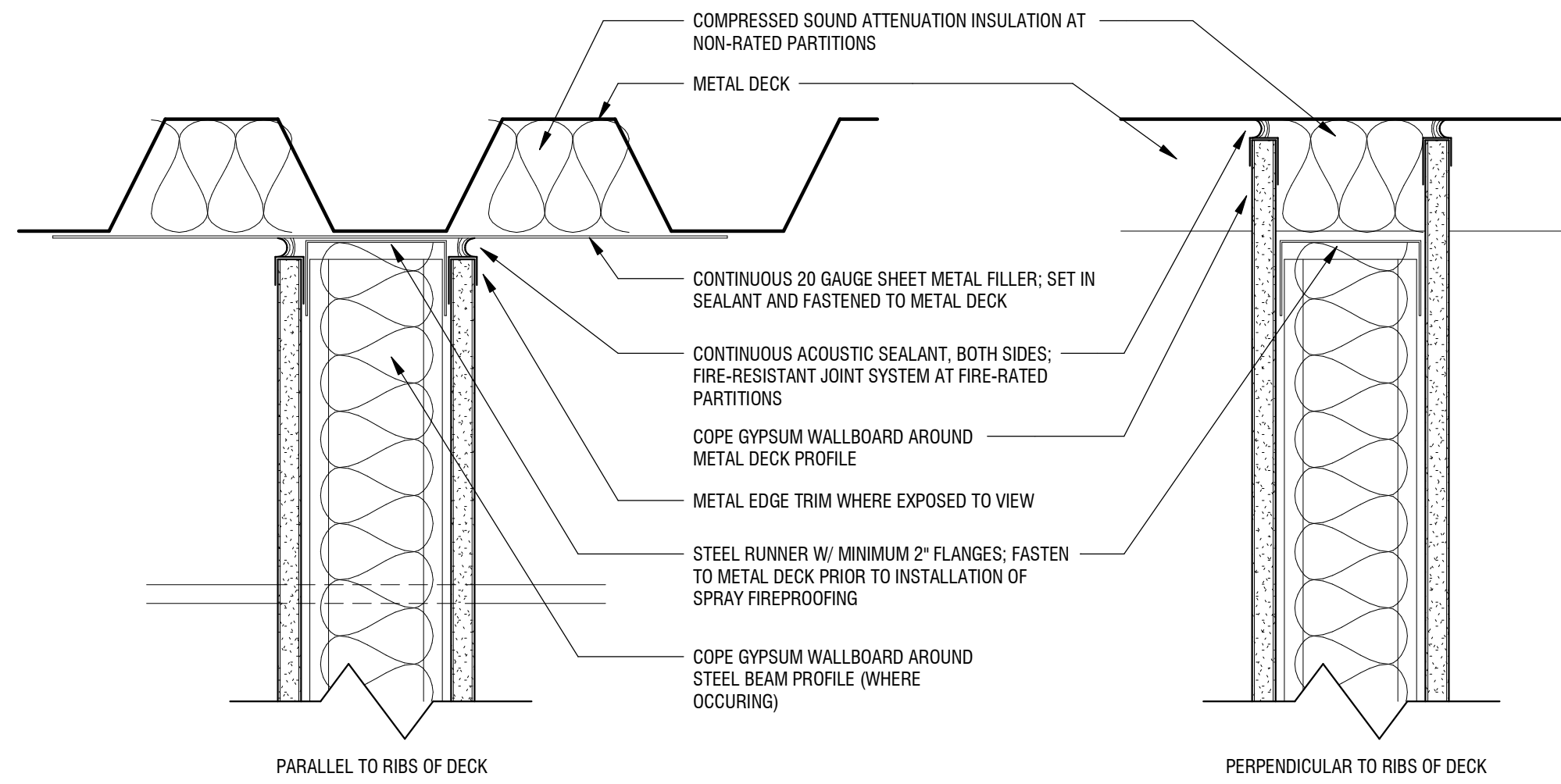
A001



1. METAL STUD BRACE, AT A MINIMUM, EQUAL TO FRAMING OF BRACED PARTITION
2. COORDINATE BRACE LOCATIONS W/ WORK OF ALL OTHER TRADES

3 PARTITION DETAILS - BRACED PARTITION

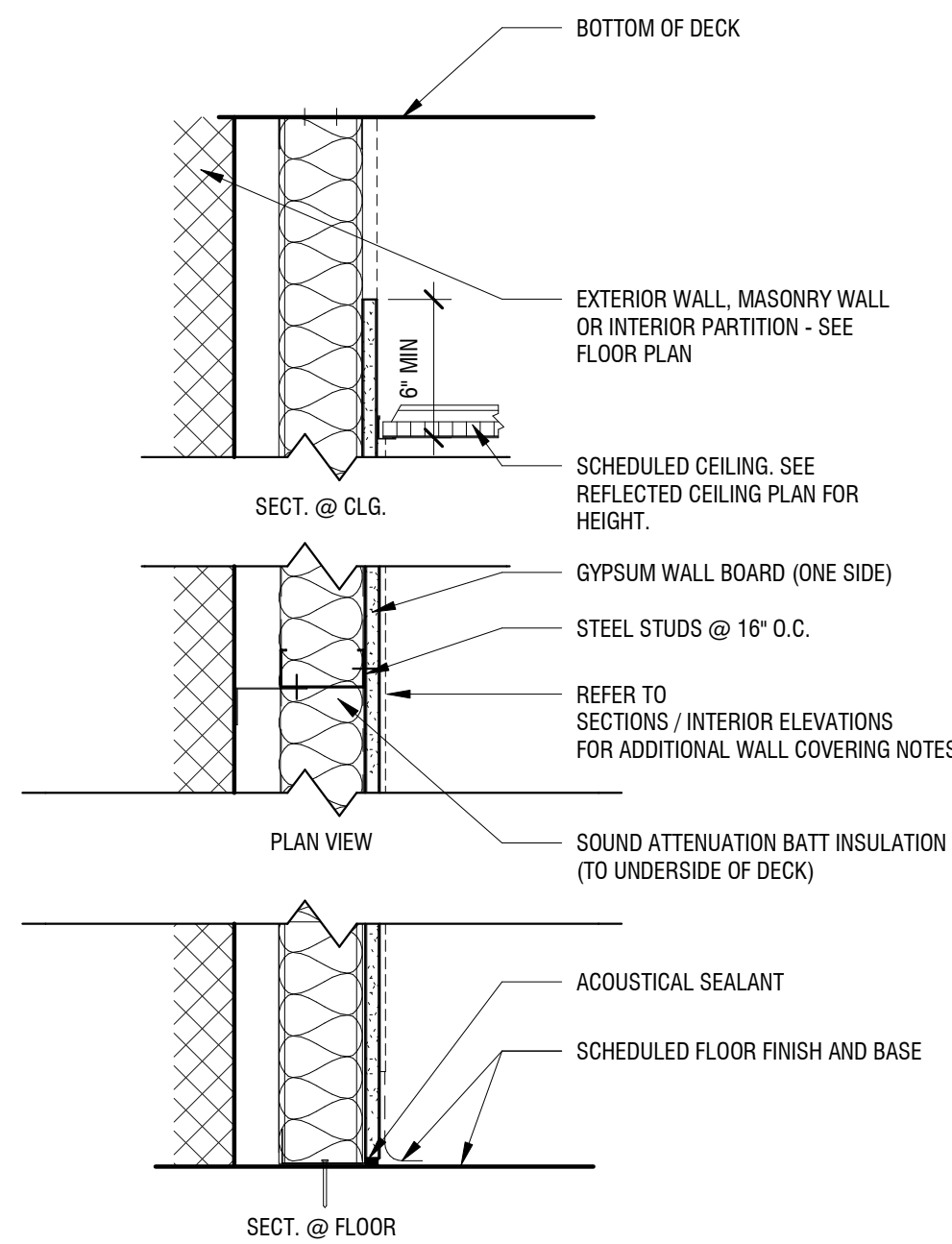
A002 SCALE: 3/4" = 1'-0"



NOTE: FASTEN STEEL RUNNER TO METAL DECK; FRICTION FIT METAL STUDS TO RUNNER AND FASTEN GYPSUM WALLBOARD TO STUDS (DO NOT FASTEN TO RUNNER); MAINTAIN 3/4" - 1" GAP BETWEEN METAL DECK AND METAL STUD / GYPSUM WALLBOARD TO ACCOMMODATE DEFLECTION OF STRUCTURE WHERE REQUIRED

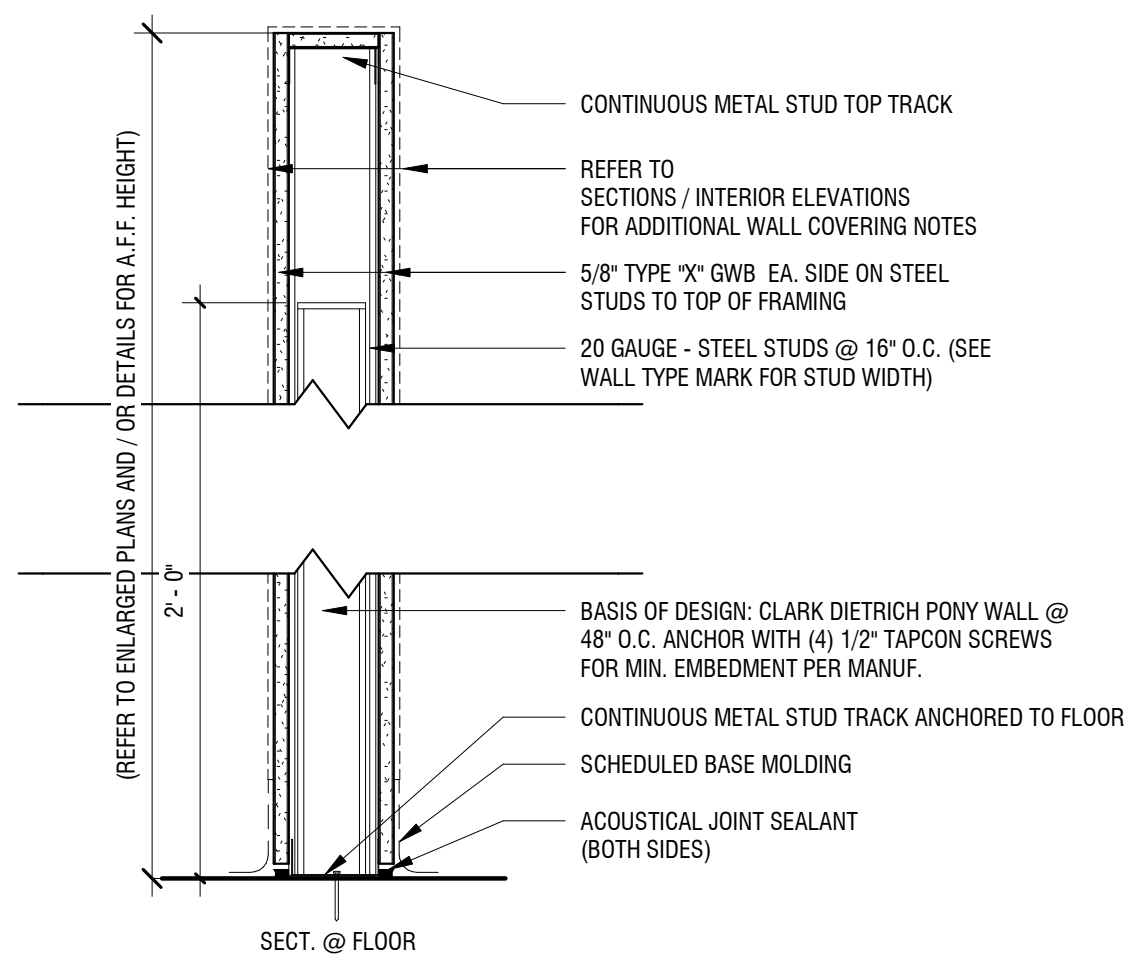
2 PARTITION DETAILS - METAL STUD

A002 SCALE: 3" = 1'-0"



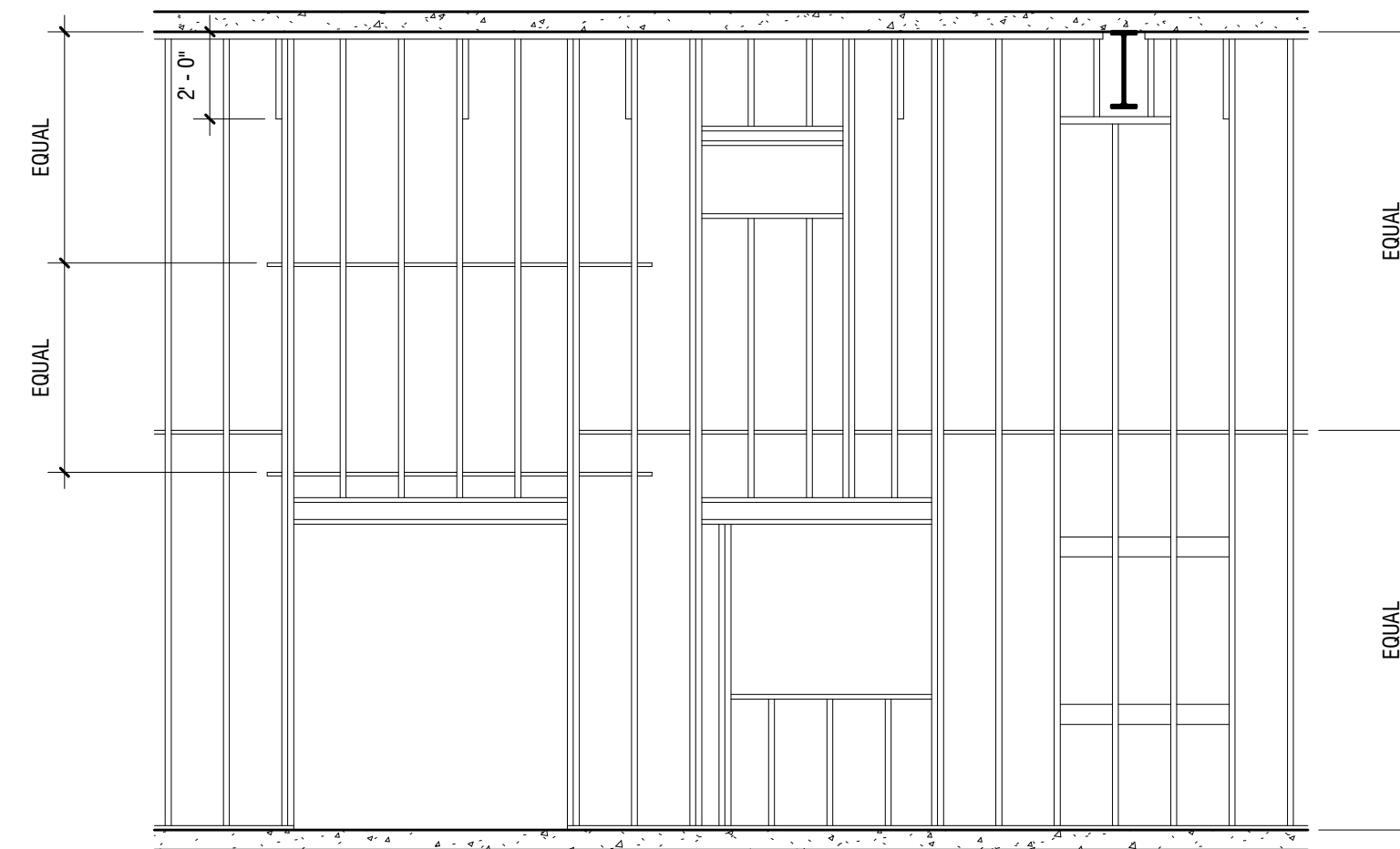
WALL TYPE F

MARK	STUD SIZE	GAUGE	PARTITION WIDTH	FIRE TEST DESIGN NO.	FIRE RATING	STC
F3.0	3 5/8"	18 GA	4 1/4"	--	NON-RATED	--
F6.0	6"	18 GA	6 5/8"	--	NON-RATED	--
F8.0	8"	18 GA	8 5/8"	--	NON-RATED	--



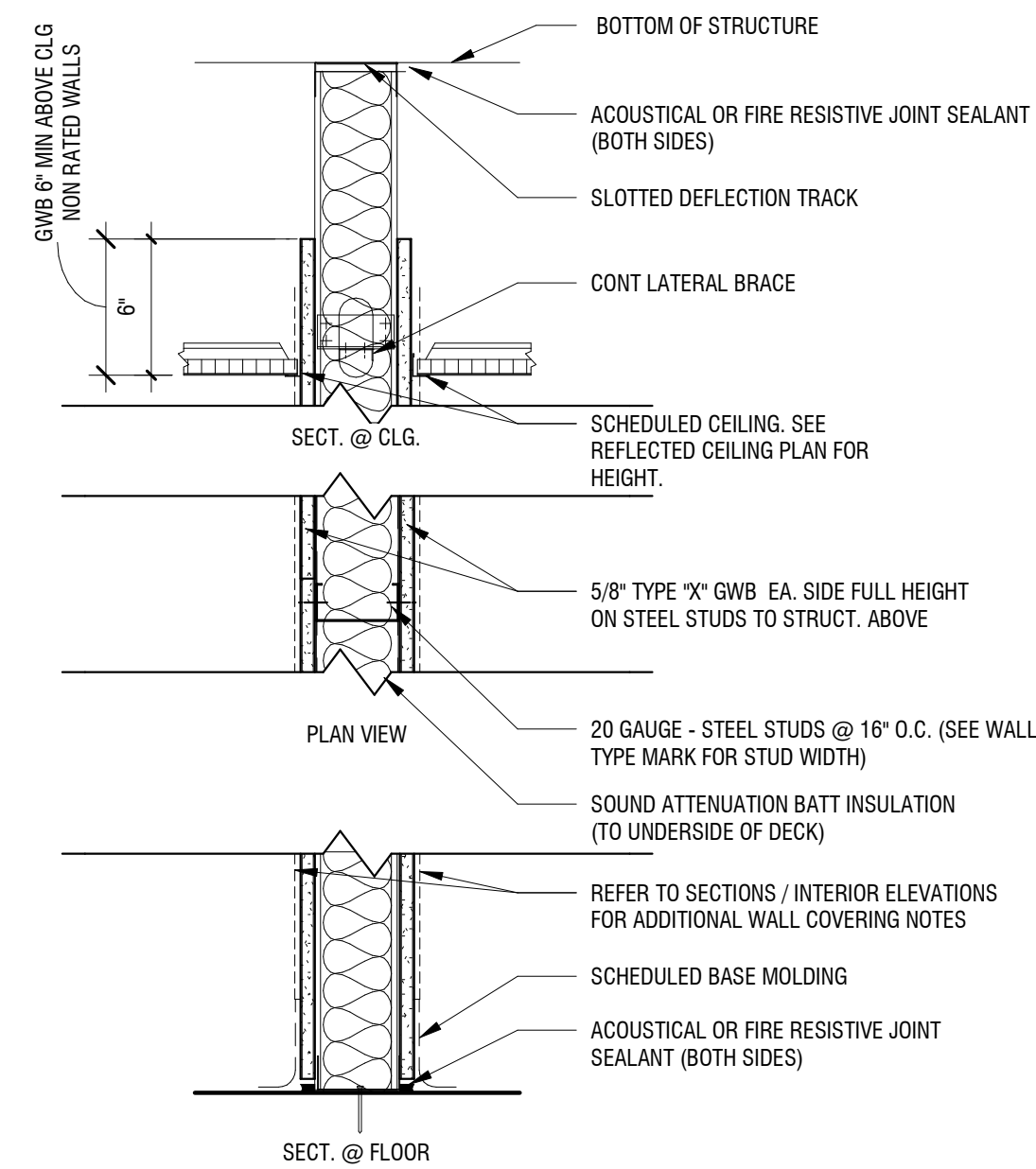
WALL TYPE S (METAL STUD) HALF WALL

MARK	STUD SIZE	GAUGE	PARTITION WIDTH	FIRE TEST DESIGN NO.	FIRE RATING	STC	GYPSUM LAYERS EACH SIDE
S8.0h	8"	20 GA	9 1/4"	--	NON-RATED	--	1x 5/8" + 1x 5/8"



1 PARTITION DETAILS - TYPICAL INTERIOR METAL STUD FRAMING

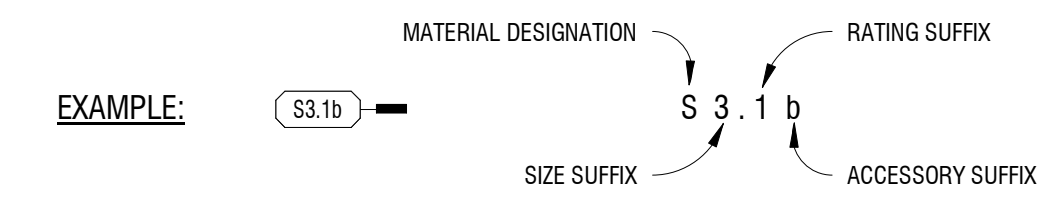
A002 SCALE: 1/4" = 1'-0"



WALL TYPE S (METAL STUD)

MARK	STUD SIZE	GAUGE	PARTITION WIDTH	FIRE TEST DESIGN NO.	FIRE RATING	STC	GYPSUM LAYERS EACH SIDE
S2.0	2 1/2" (x2)	20 GA	7 3/4"	--	NON-RATED	--	1x 5/8" + 1x 5/8"
S3.0	3 5/8"	20 GA	4 7/8"	--	NON-RATED	--	1x 5/8" + 1x 5/8"
S6.0	6"	20 GA	7 1/4"	--	NON-RATED	--	1x 5/8" + 1x 5/8"

PARTITION TYPE LEGEND:



MATERIAL DESIGNATION

- S METAL STUDS @ 16" O.C., REFER TO TYPES FOR GA./MIL THICKNESS
- F METAL STUDS @ 12" O.C./ FURRING CHANNELS / HAT CHANNELS/ Z-FURRING CHANNELS x REFER TO TYPES FOR GA./MIL THICKNESS

SIZE SUFFIX

- 2 2 1/2" METAL STUDS
- 3 3 5/8" METAL STUDS
- 6 6" METAL STUDS
- 8 8" METAL STUDS

RATING SUFFIX

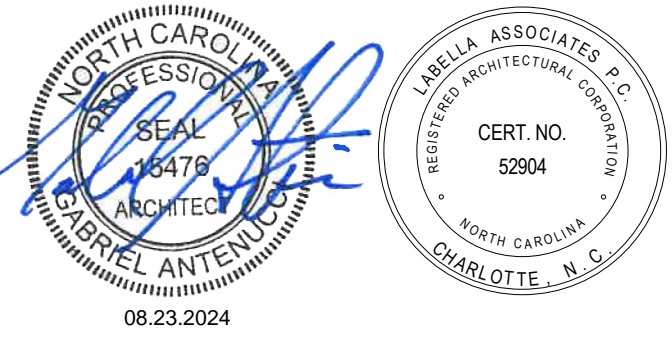
- 0 NON-RATED CMU OR METAL STUD PARTITION

ACCESSORIES SUFFIX

- h HALF WALL COORDINATE WITH INTERIOR DRAWINGS.

GENERAL PARTITION NOTES:

1. ALL PARTITIONS EXTEND FROM CONCRETE FLOOR TO DECK ABOVE UNLESS OTHERWISE NOTED.
2. FILL FLUTES IN DECK ABOVE PARTITION WITH FIRE SAFING INSULATION AND FIRE STOP ENTIRE PERIMETER AT RATED PARTITIONS, AND EXTERIOR WALLS WITH A UL LISTED JOINT SYSTEM FIRESTOP ASSEMBLY.
3. PROVIDE DEFLECTION TRACKS AT METAL STUD PARTITIONS THAT TERMINATE AT THE UNDERSIDE OF STRUCTURE/DECK ABOVE.
4. ALL NON-BEARING PARTITIONS SHALL BE CONSTRUCTED TO LIMIT DEFLECTION TO L/360 OF THE SPAN WITH UNIFORM 5 PSF HORIZONTAL LOADING.
5. ALL PENETRATIONS IN FIRE RATED PARTITIONS TO BE FIRE STOPPED AND SEALED.
6. ALL PARTITIONS SHALL BE SEALED TO PREVENT PASSAGE OF SMOKE.
7. CONTRACTOR TO REFER TO CODE/LIFE SAFETY DRAWINGS FOR RATED PARTITION LOCATIONS.
8. PROVIDE GLASS-MAT GYPSUM BOARD AT ALL WET LOCATIONS AND AREAS TO RECEIVE WALL TILE, REFER TO SPECIFICATION IN PROJECT MANUAL.
9. PROVIDE DOUBLE FRAMING AT ALL DOOR, WINDOW AND CASED OPENING JAMBS. PROVIDE BOX HEADERS AT ALL HEAD CONDITIONS.
10. FOR ALL PARTITIONS, GC TO COORDINATE AND PROVIDE BLOCKING FOR ALL TRADES (U.N.O.) NOT LIMITED TO WALL MOUNTED ARCHITECTURAL WOODWORK, FINISH CARPENTRY, TOILET PARTITIONS AND ACCESSORIES, EQUIPMENT, HANDRAILS, HARDWARE AND SIMILAR ITEMS. ALL BLOCKING TO BE FIRE TREATED.



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9521 Chapel Hill RD. Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		BAW
REVIEWED BY:		GGA
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

PARTITION TYPES

DRAWING NUMBER:

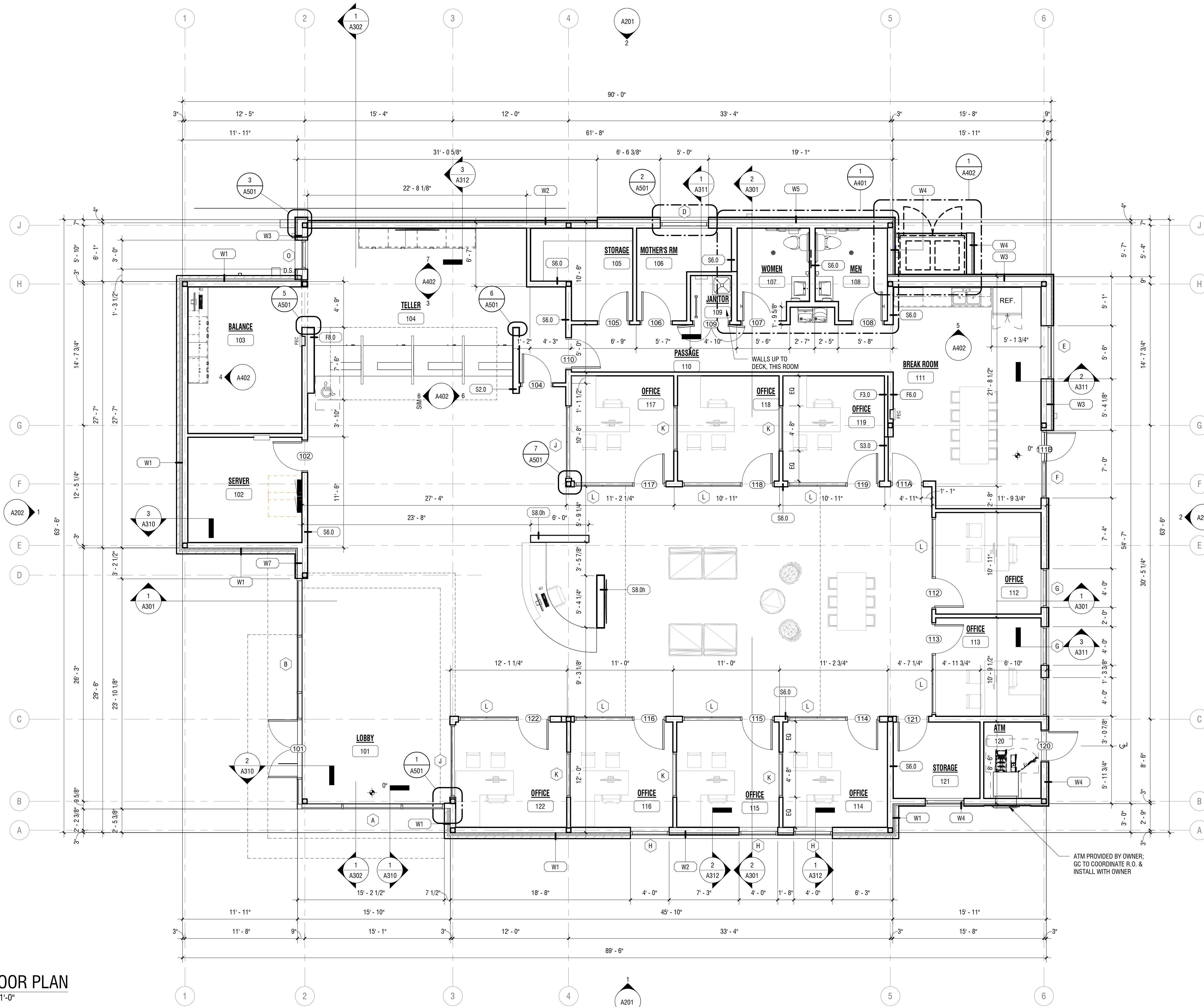
A002

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF STUD, U.N.O.
2. REFER TO A401 FOR EXTERIOR WALL TYPES
3. ALL INTERIOR WALLS TO BE 3-5/8" METAL STUD, WALL TYPE S3.0, U.N.O. SEE A402 FOR PARTITION TYPES
4. ALL DIMENSIONS ARE TO EDGE OF OPENING, U.N.O.
5. INSTALL DOOR FRAMES 6" OFF CORNER OF WALL - TYP.
6. SEE A401 & A402 FOR ENLARGED PLANS INTERIOR ELEVATIONS

FLOOR PLAN LEGEND

- METAL STUD WALL WITH 5/8" GYPSUM WALL BOARD EA. SIDE
- ELECTRICAL PANEL - SEE ELECTRICAL
- FIRE EXTINGUISHER - REFER TO CODE PLANS
- FLOOR DRAIN - SEE PLUMBING
- MOP SINK - SEE PLUMBING



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9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: BAW

REVIEWED BY: GGA

ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NUMBER:

FIRST FLOOR PLAN

DRAWING NUMBER:

GENERAL ROOF NOTES

1. REFER TO SHEET A001 FOR ROOF ASSEMBLY TYPES
2. COORDINATE ROOF TOP EQUIPMENT LAYOUT WITH MECHANICAL AND STRUCTURAL DRAWINGS.
3. ALL MANUFACTURERS LISTED TO SERVE AS A DESIGN BASIS, G.C. TO PROVIDE EQUAL PRODUCT AT A COST SAVINGS WHERE APPLICABLE.
4. VERIFY ALL FINISHES WITH ARCHITECT AND OWNER PRIOR TO ORDERING.
5. G.C. TO PROVIDE MIN. 10'-0" CLEARANCE FROM ANY EXHAUST OR VENT TO FRESH AIR INTAKE.
6. COORDINATE ROOF SLOPES WITH STRUCTURAL DRAWINGS.
7. G.C. TO INSTALL ALL SERVICEABLE ROOF TOP EQUIPMENT MIN. 10'-0" FROM EDGE
8. G.C. TO PROVIDE RUBBER WALKWAYS LEADING FROM ROOF ACCESS TO RTUS
9. 1504.5 EDGE SECUREMENT FOR LOW-SLOPE ROOFS. LOW-SLOPE BUILT-UP, MODIFIED BITUMEN AND SINGLE-PLY ROOF SYSTEM METAL EDGE SECUREMENT, EXCEPT GUTTERS, SHALL BE DESIGNED & INSTALLED FOR WIND LOADS IN ACCORDANCE W/ CH. 16 & BE TESTED FOR RESISTANCE IN ACCORDANCE W/ TEST METHODS RE-1, RE-2 & RE-3 OF ANSI/SPRI ES-1 EXCEPT THOSE WINDSPEEDS THAT MUST BE REVIEWED & SHALL BE DETERMINED FROM FIGURE 1609A, 1609B OR 1609C AS APPLICABLE



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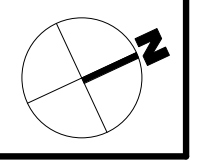
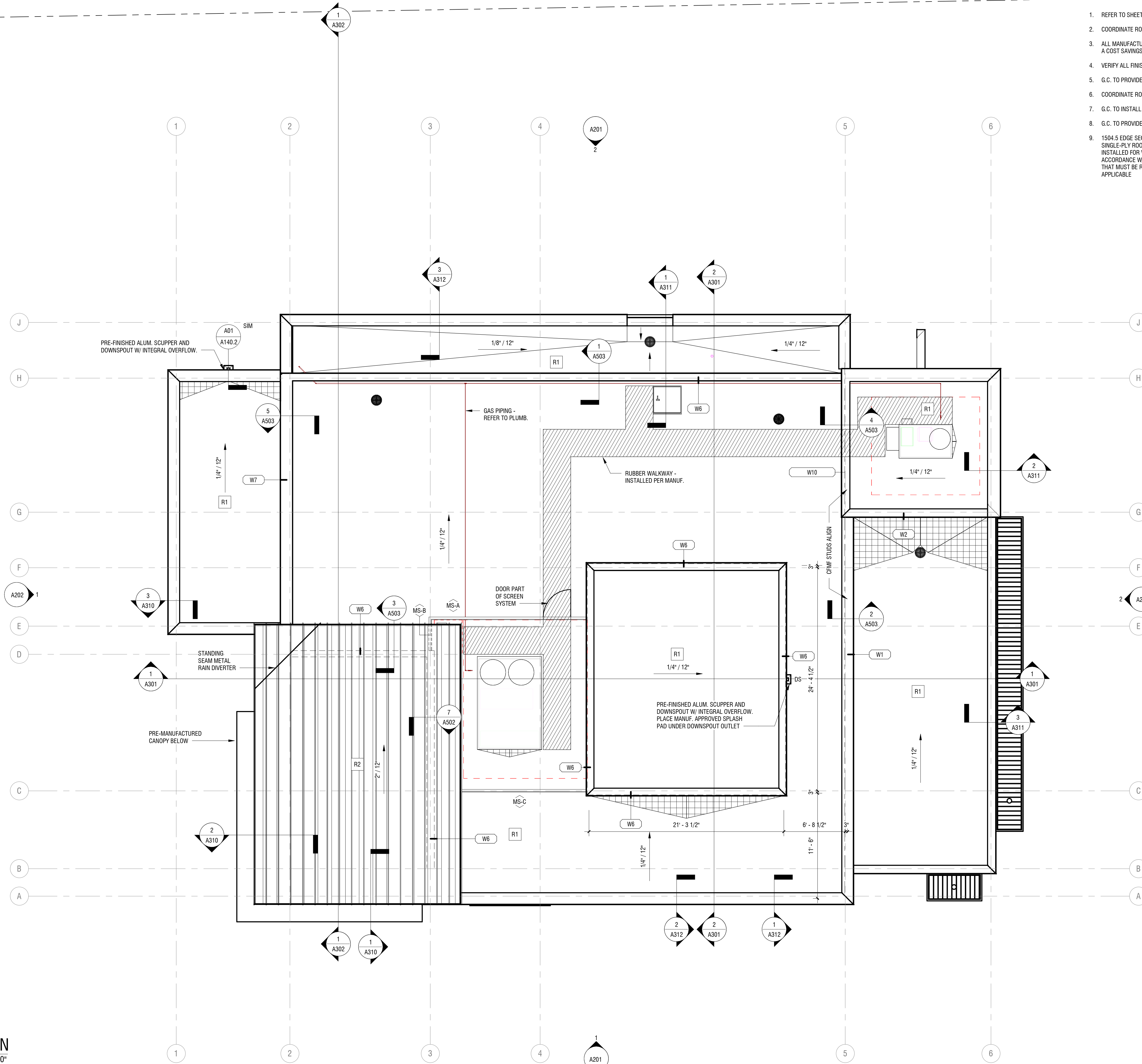
LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		BAW
REVIEWED BY:		GGA
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

ROOF PLAN

DRAWING NUMBER:

A102





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NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		BAW
REVIEWED BY:		GGA
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

FIRST FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER:

A111

LIGHTING LEGEND

NOTE: REFER TO ELECTRICAL DRAWINGS FOR TYPE

- RECESSED CEILING FIXTURE
- PENDENT FIXTURE
- WALL MOUNTED VANITY FIXTURE
- RECESSED CAN FIXTURE
- WALL MOUNTED FIXTURE

GENERAL CEILING NOTES

- REFER TO INTERIORS, PLUMBING, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION DRAWINGS FOR ANY ADDITIONAL CEILING AND WALL MOUNTED ITEMS NOT SHOWN.
- PROVIDE AND CENTER IN ROOM WHERE ACOUSTICAL CEILING PANEL IS SHOWN.
- GWB CEILING PAINT COLORS ARE INDICATED ON INTERIOR DRAWINGS.

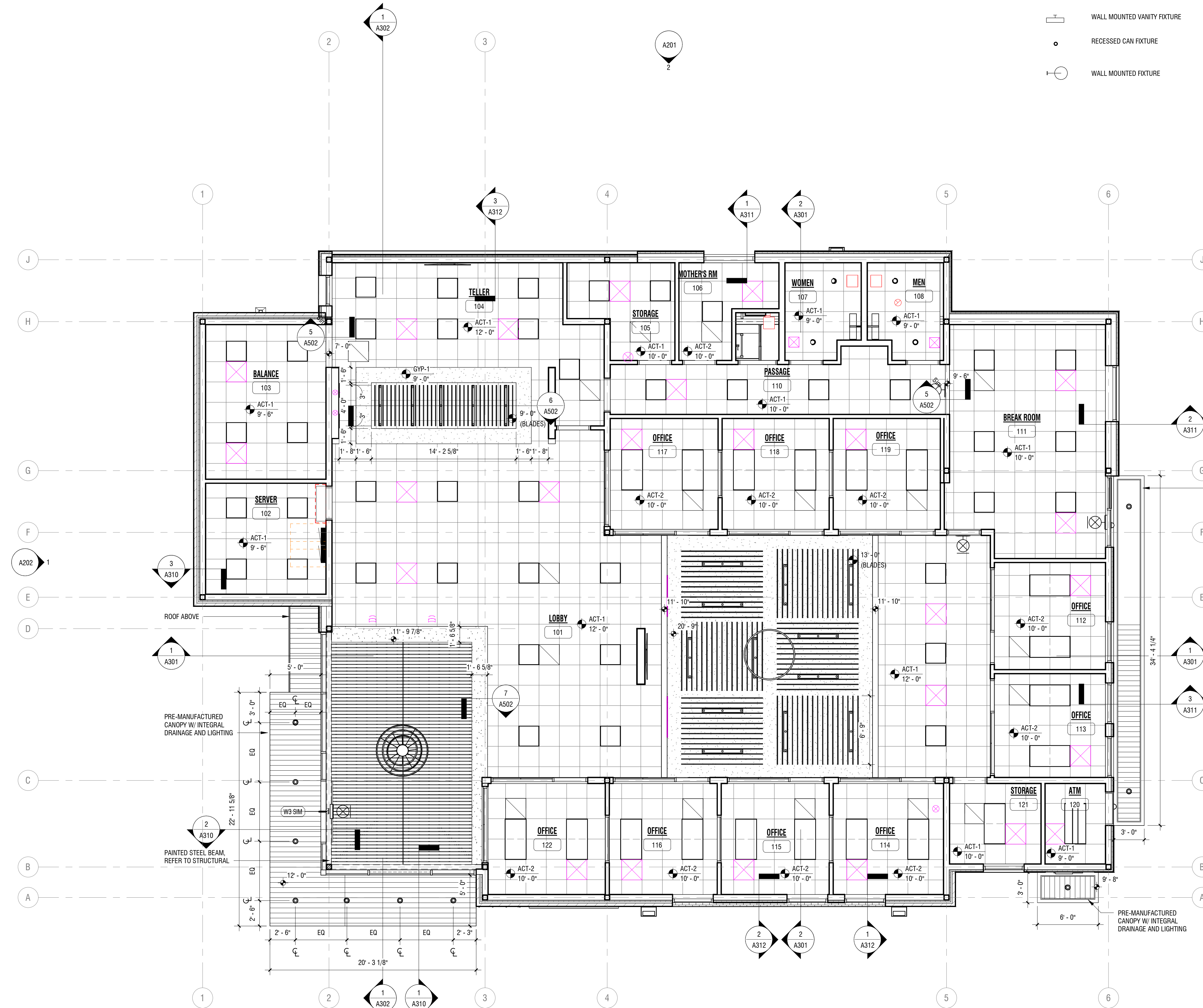
CEILING TYPE INDICATIONS

- 2 x 2 ACOUSTICAL CEILING TILE (ACT-1)
- 2 x 2 ACOUSTICAL CEILING TILE - HIGH NRC (ACT-2)
- 2 x 2 SCRUBBABLE ACOUSTICAL CEILING TILE (ACT-3 @ WET LOCATIONS)
- 5/8" GYPSUM BOARD - PAINTED (GYP-1)
- METAL / WOOD - LINEAR VENEERED CEILING (WD-1)
BASIS OF DESIGN: LONGBOARD PRODUCTS ENDURA 6" V GROOVE (TYPICAL AND PERFORATED) REFER TO DETAILS
- METAL BAFFLE - BASIS OF DESIGN:
LONGBOARD PRODUCTS 6" DAUNTLESS

HVAC / ELECTRICAL LEGEND

- SMOKE DETECTOR - CEILING MOUNTED (REFER TO FIRE PROTECTION)
- HEAT DETECTOR - CEILING MOUNTED (REFER TO FIRE PROTECTION)
- HVAC SUPPLY (REFER TO MECHANICAL)
- HVAC RETURN (REFER TO MECHANICAL)
- HVAC UNIT (REFER TO MECHANICAL)
- SINGLE FACE EXIT SIGN (REFER TO ELECTRICAL)
- CEILING FINISH TAG. REFER TO INTERIOR DWGS FOR COLOR AND FINISH LEGEND
- LINEAR DIFFUSER - SEE MECHANICAL DRAWINGS

PRE-MANUFACTURED CANOPY W/ INTEGRAL DRAINAGE AND LIGHTING



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1 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

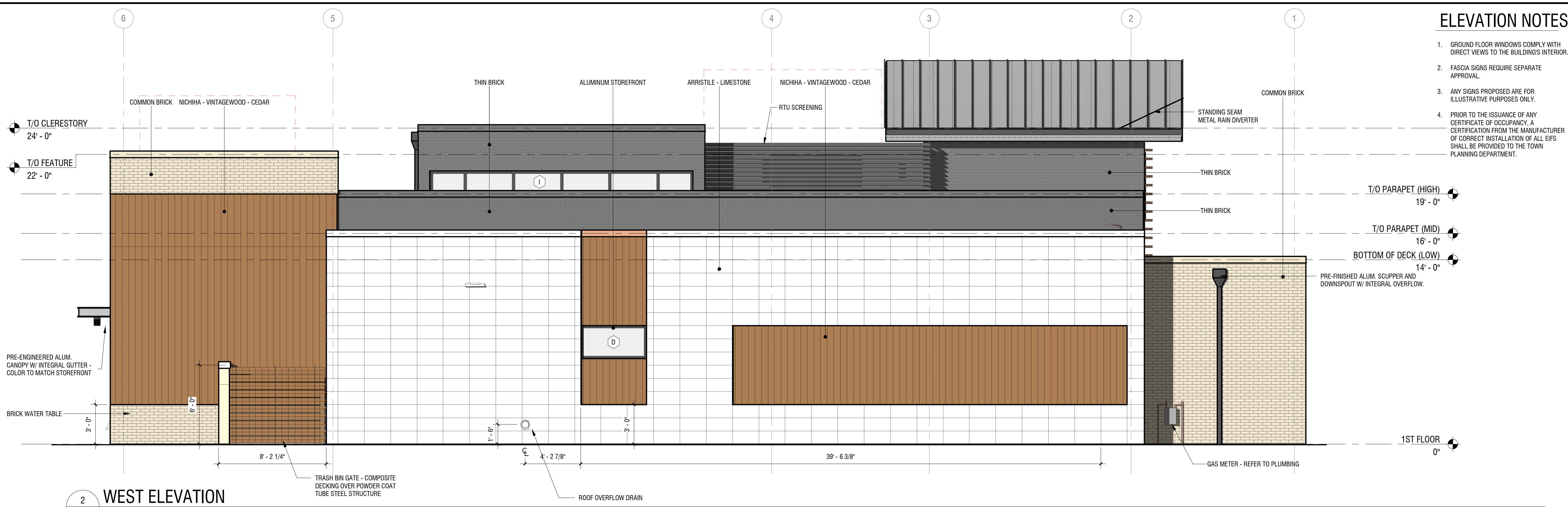


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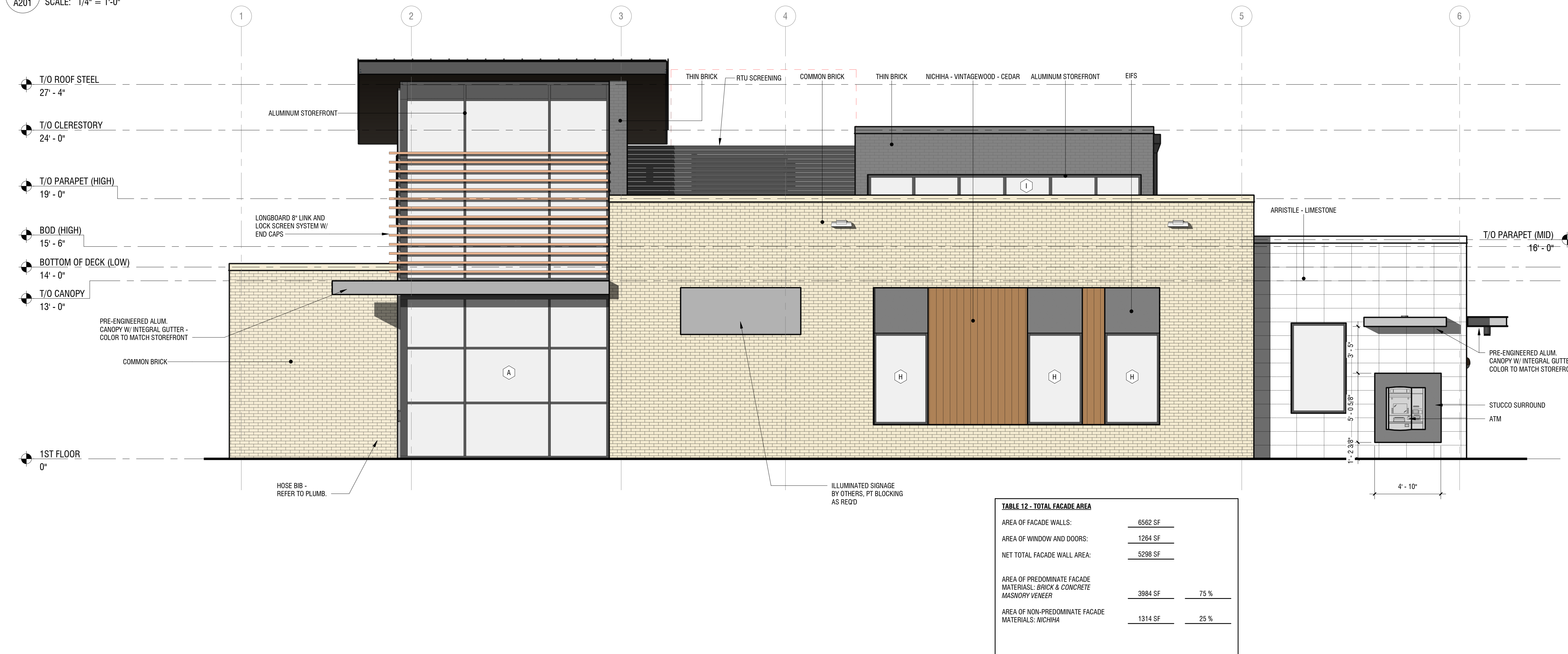


ELEVATION NOTES

- GROUND FLOOR WINDOWS COMPLY WITH DIRECT VIEWS TO THE BUILDINGS INTERIOR.
- FASCIA SIGNS REQUIRE SEPARATE APPROVAL.
- ANY SIGNS PROPOSED ARE FOR ILLUSTRATIVE PURPOSES ONLY.
- PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, A CERTIFICATION FROM THE MANUFACTURER OF CORRECT INSTALLATION OF ALL EIFS SHALL BE PROVIDED TO THE TOWN PLANNING DEPARTMENT.



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



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

TABLE 12 - TOTAL FACADE AREA		
AREA OF FACADE WALLS:	6562 SF	
AREA OF WINDOW AND DOORS:	1264 SF	
NET TOTAL FACADE WALL AREA:	5298 SF	
AREA OF PREDOMINATE FACADE MATERIALS: BRICK & CONCRETE MASONRY VENEER	3984 SF	75 %
AREA OF NON-PREDOMINATE FACADE MATERIALS: NICHIA	1314 SF	25 %

TABLE 12 - TOTAL FACADE WALL AREA

LCU - Morrisville Site Adapt
9521 Chapel Hill RD. Morrisville, NC 27560

C	NO.	DATE:	DESCRIPTION:
C	06.26.2024	06.26.2024	Cycle 4 - Site Review
Revisions			
PROJECT NUMBER:		2230150	
DRAWN BY:		BAW	
REVIEWED BY:		GGA	
ISSUED FOR:		BID SET	
DATE:		08.23.2024	
DRAWING NUMBER:			

EXTERIOR ELEVATIONS

A201

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C	06.26.2024	Cycle 4 - Site Review
B	02.15.2024	Cycle 2 - Site Review
NO.	DATE:	DESCRIPTION:

PROJECT NUMBER: 2230150

DRAWN BY: BAW

REVIEWED BY: GGA

ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NAME:

EXTERIOR ELEVATIONS

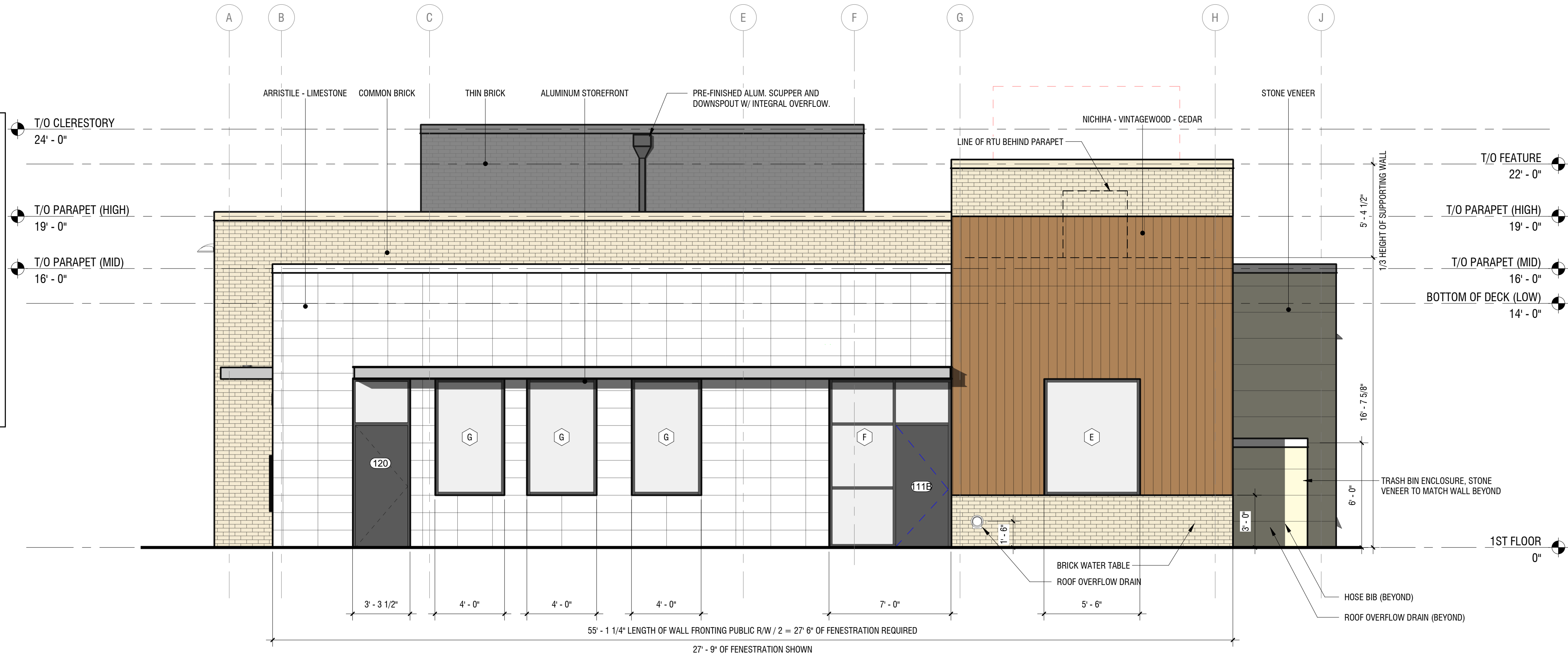
DRAWING NUMBER:

A202

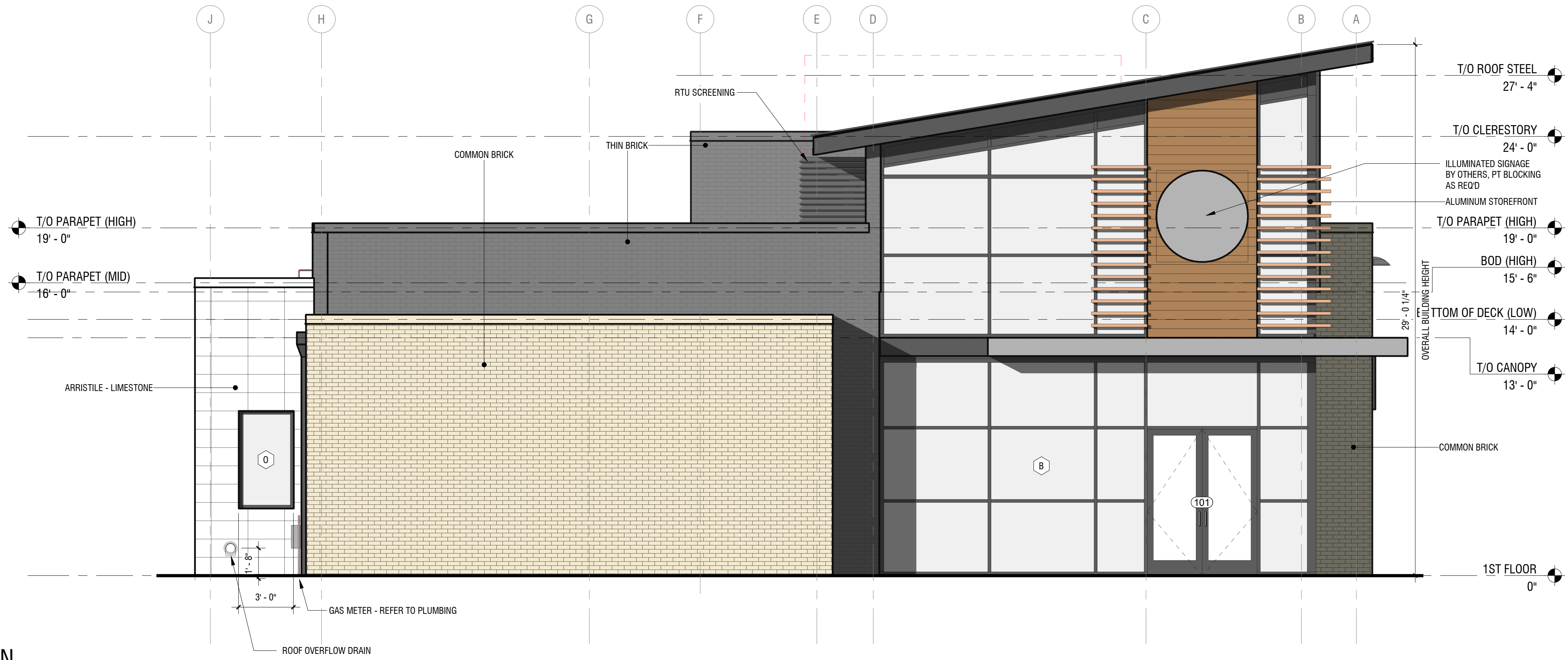
ELEVATION NOTES

- GROUND FLOOR WINDOWS COMPLY WITH DIRECT VIEWS TO THE BUILDINGS INTERIOR.
- FASCIA SIGNS REQUIRE SEPARATE APPROVAL.
- ANY SIGNS PROPOSED ARE FOR ILLUSTRATIVE PURPOSES ONLY.
- PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, A CERTIFICATION FROM THE MANUFACTURER OF CORRECT INSTALLATION OF ALL EIFS SHALL BE PROVIDED TO THE TOWN PLANNING DEPARTMENT.

TABLE 16	TOTAL HORIZONTAL LENGTH OF THE WALL:	55' - 1" LF	
	HORIZONTAL LENGTH OF THE (CANOPY):	34' - 0" LF	
	HORIZONTAL LENGTH OF THE (ELEVATED WALL WITH MATERIAL CHANGE):	16' - 2" LF	
	TOTAL HORIZONTAL LENGTH OF ALL FEATURES:	40' - 6" LF	74 % OF WALL
TABLE 17	TOTAL HORIZONTAL LENGTH OF WALL:	55' - 1" LF	
	TOTAL HORIZONTAL LENGTH OF WINDOWS AND GLASS ON THE GROUND FLOOR(S):	27' - 9" LF	50 % OF WALL
	TOTAL HORIZONTAL LENGTH OF WINDOWS AND GLASS ON THE UPPER FLOOR(S):	N/A	N/A
TABLE 19 - ELEVATION FACING PUBLIC R/W	TOTAL VERTICAL HEIGHT OF GROUND FLOOR WALL:	16' - 0" LF	
	TOTAL VERTICAL HEIGHT OF WINDOWS:	9' - 8" LF	61 % OF WALL



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



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



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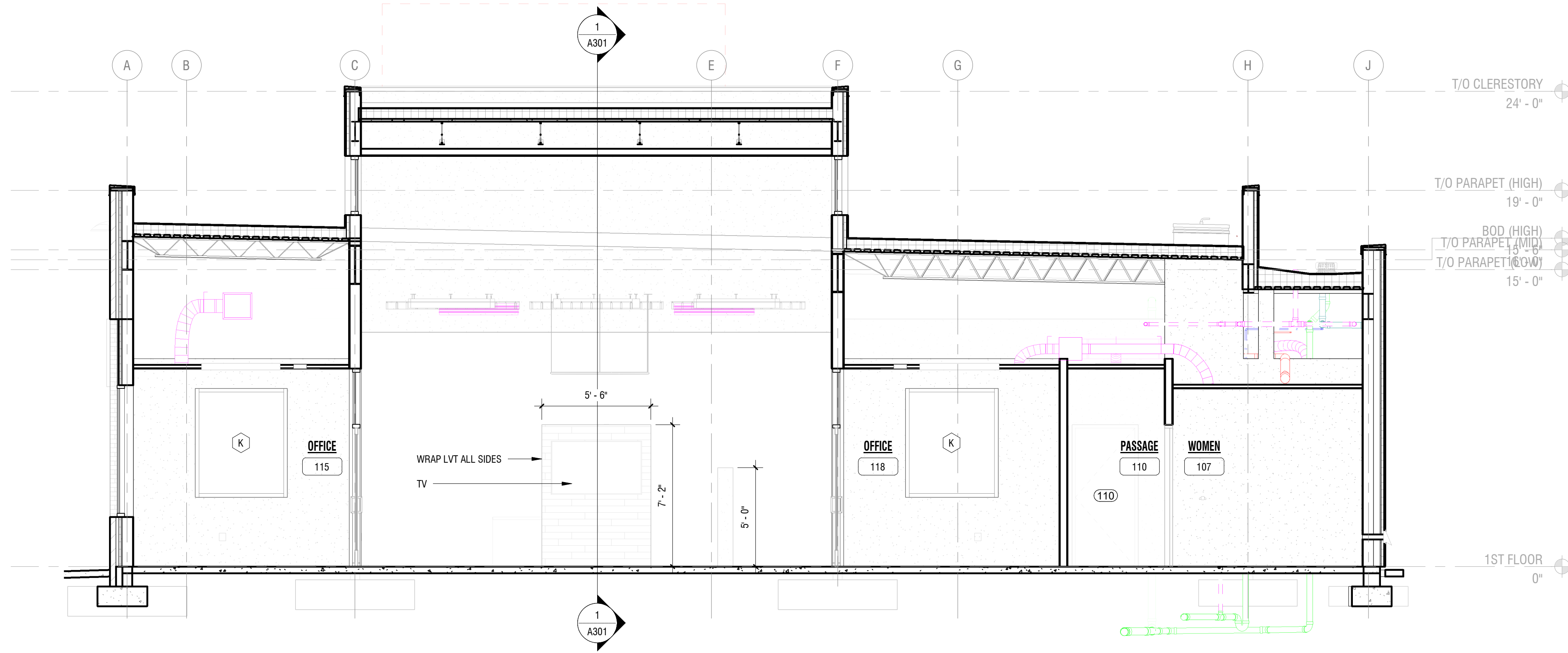
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DRAWING NAME:

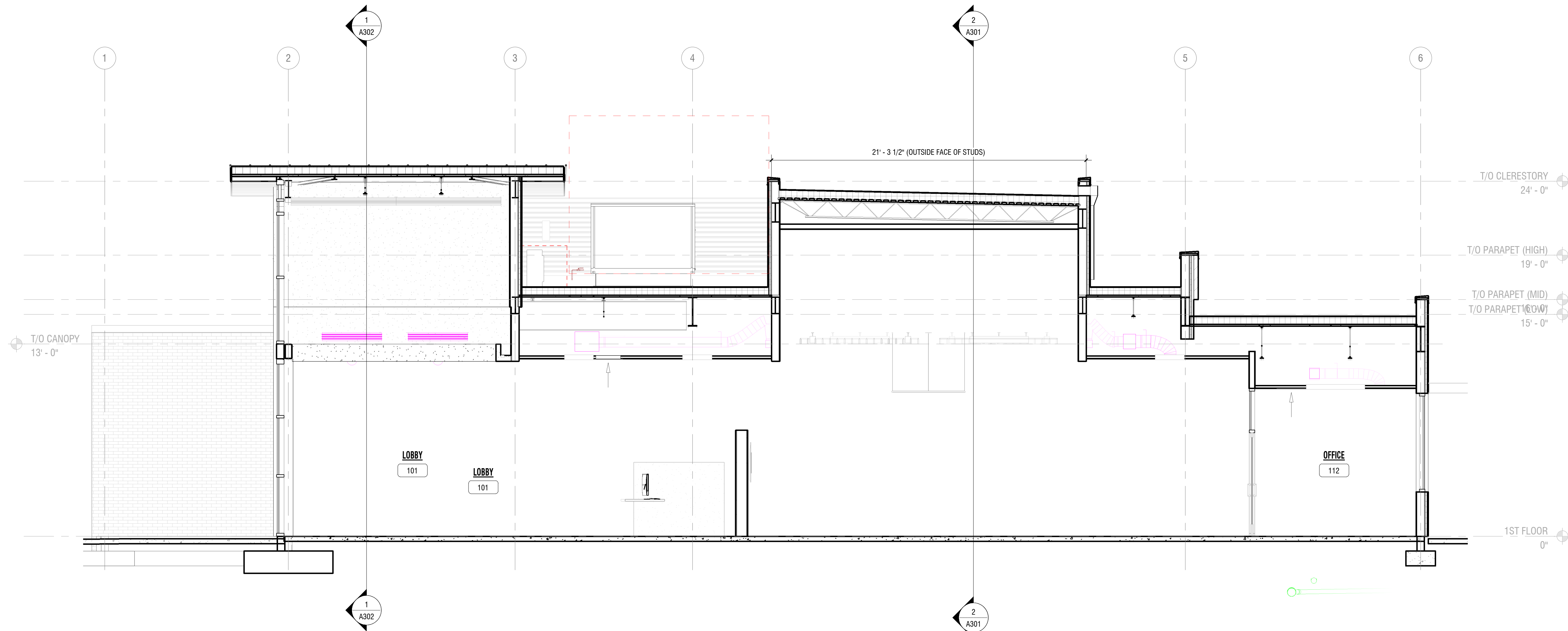
BUILDING SECTIONS

DRAWING NUMBER:

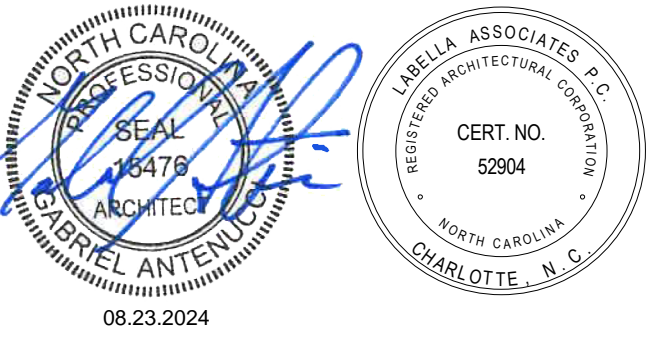
A301



2 TRANSVERSE BUILDING SECTION
SCALE: 1/4" = 1'-0"



1 LONGITUDINAL BUILDING SECTION
SCALE: 1/4" = 1'-0"



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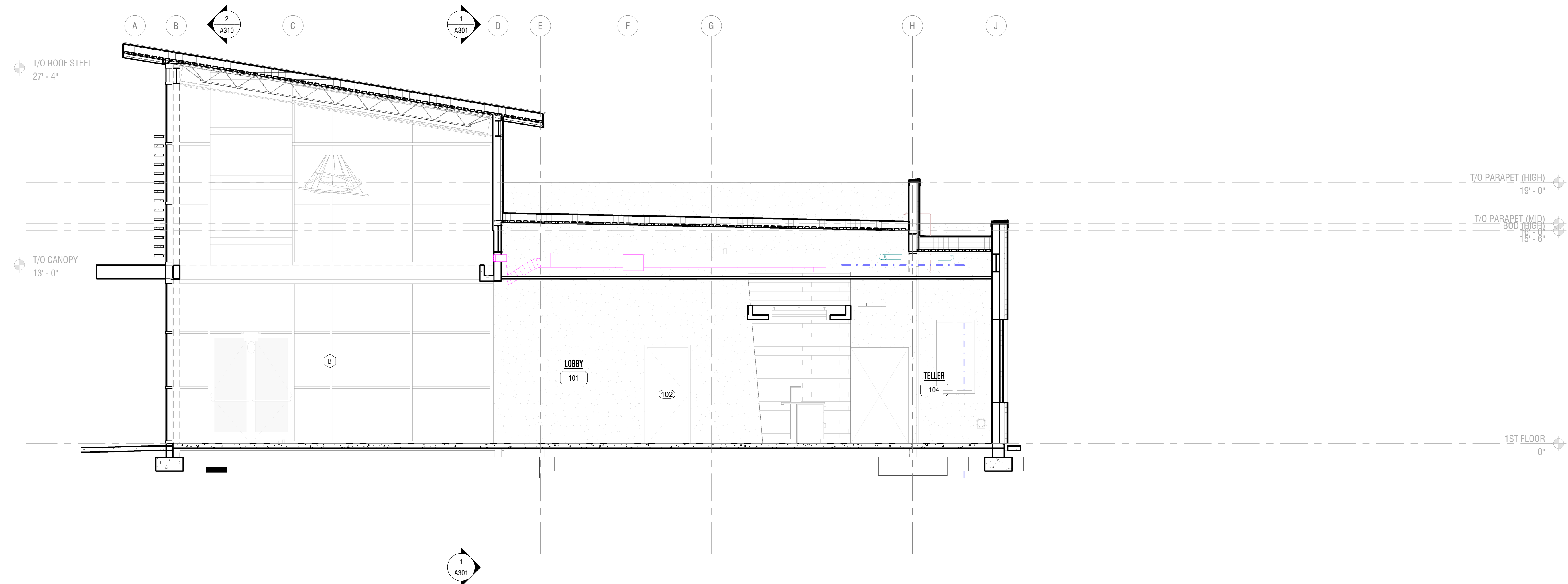
LCCU - Morrisville Site Adapt
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NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		BAW
REVIEWED BY:		GGA
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

BUILDING SECTIONS

DRAWING NUMBER:

A302



1 LONGITUDINAL BUILDING SECTION
A302 SCALE: 1/4" = 1'-0"

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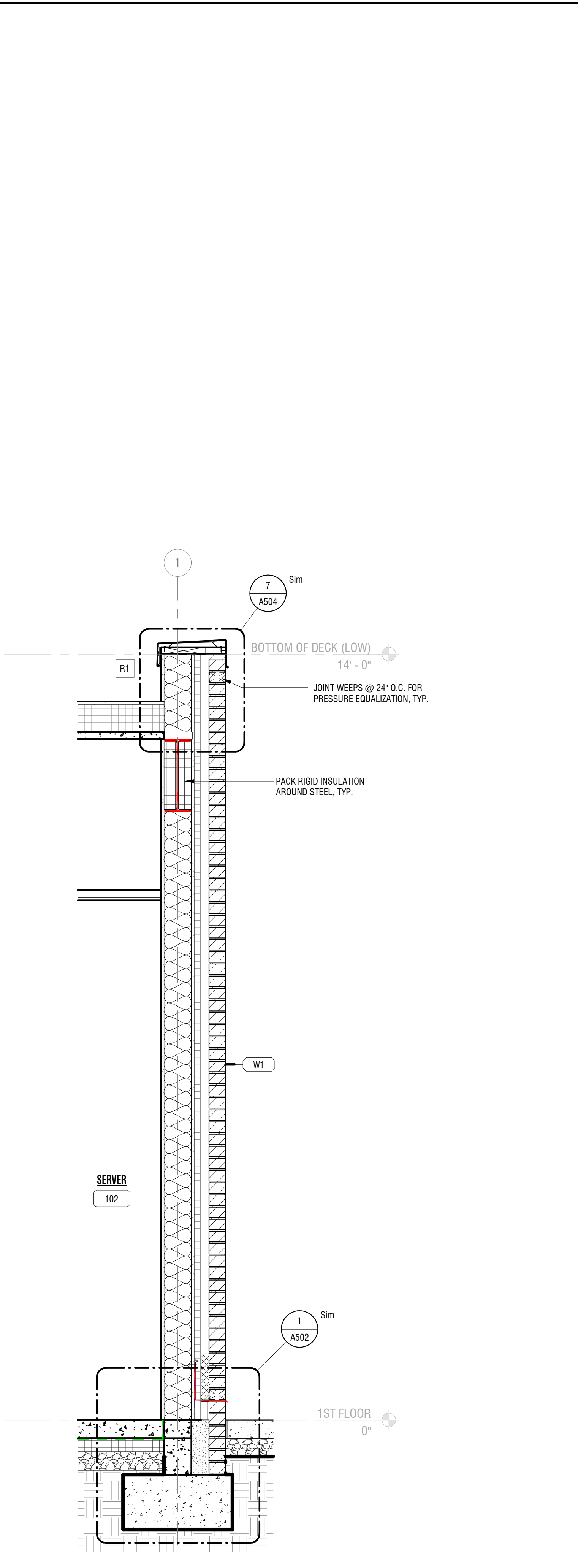
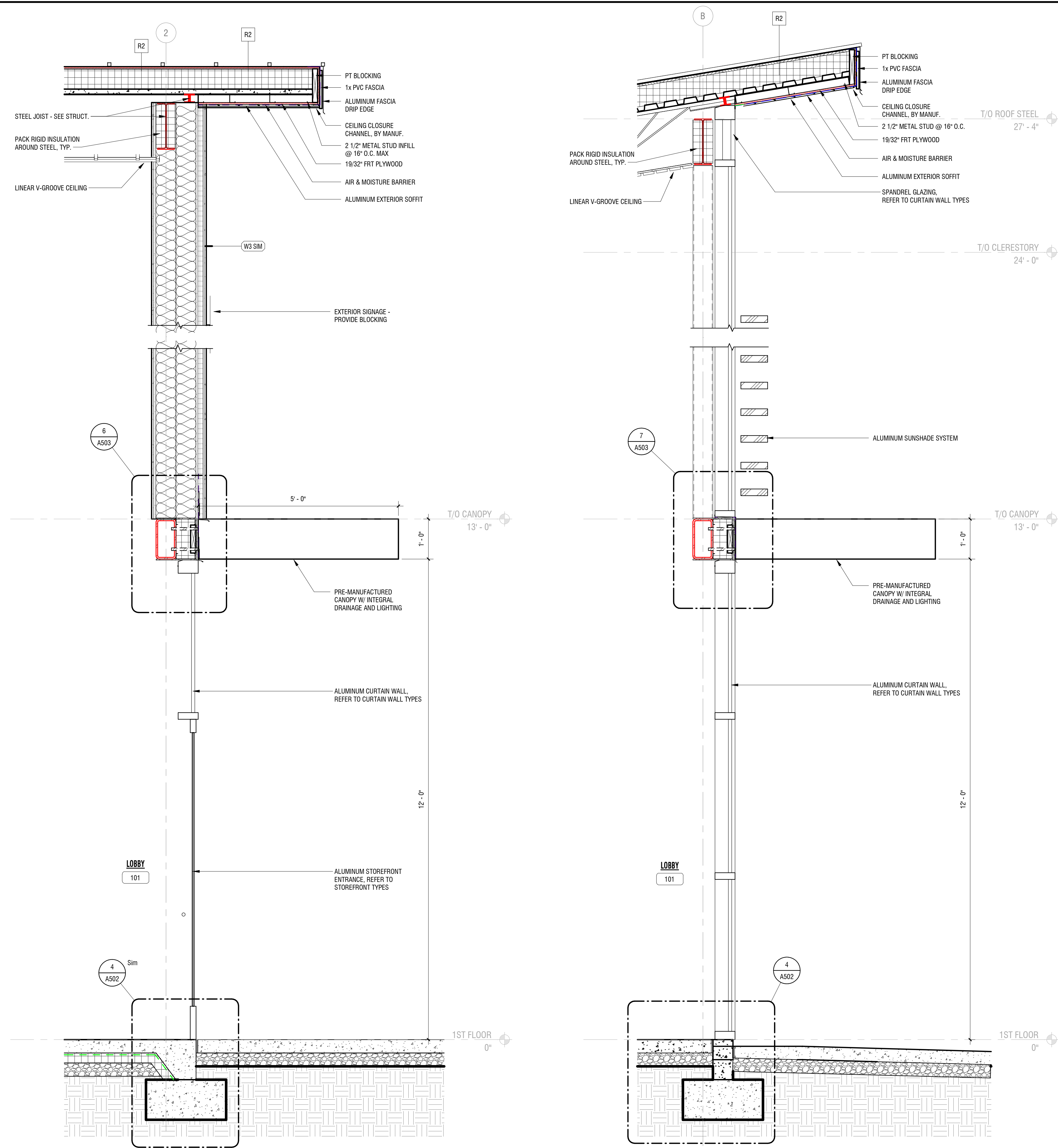
LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		BAW
REVIEWED BY:		GGA
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

WALL SECTIONS

DRAWING NUMBER:

A310



3 WALL SECTION @ SERVER RM
SCALE: 3/4" = 1'-0"

2 WALL SECTION @ VESTIBULE
SCALE: 3/4" = 1'-0"

1 WALL SECTION @ LOBBY
SCALE: 3/4" = 1'-0"

8/22/2024 2:38:31 PM



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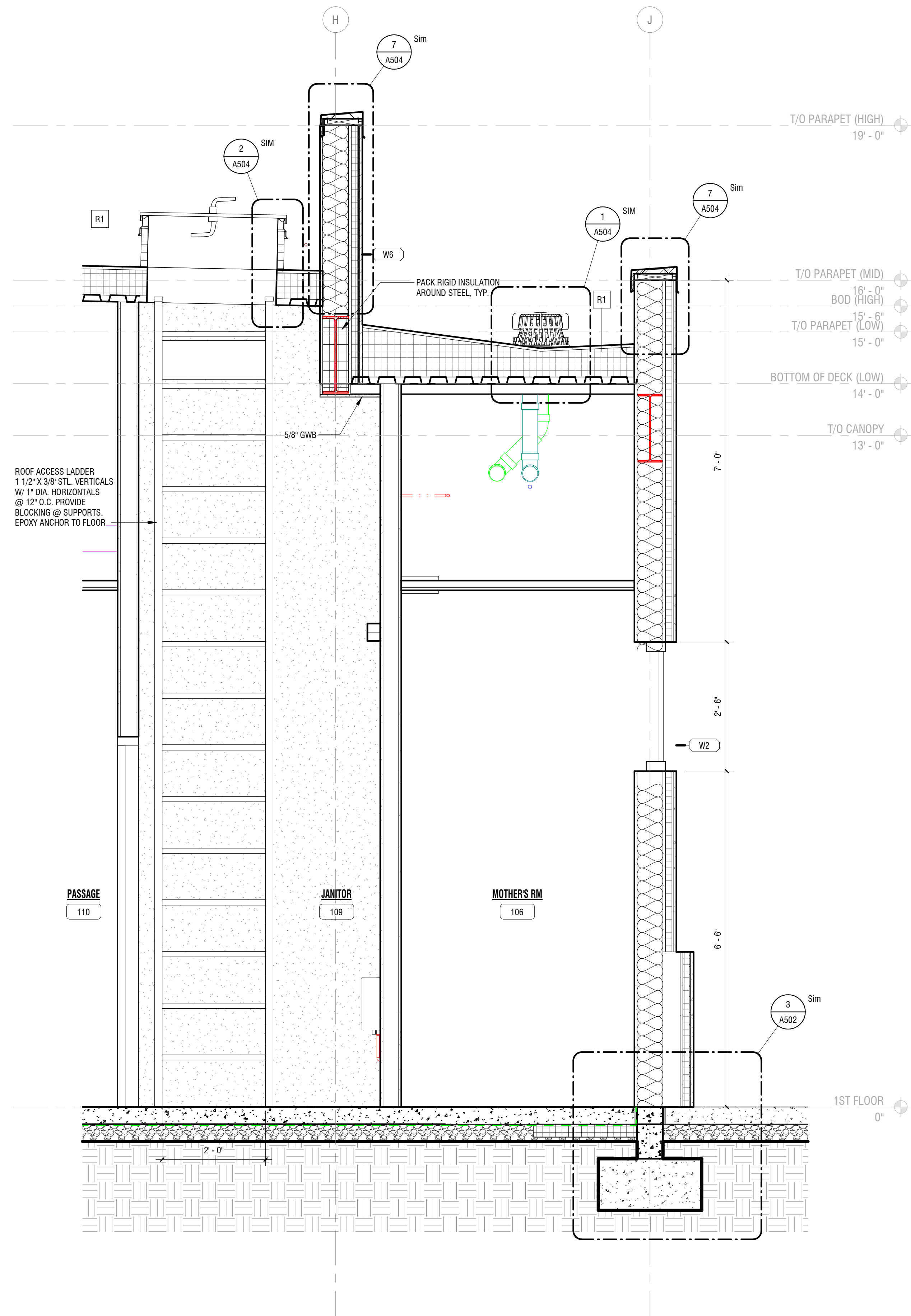
LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:	2230150	
DRAWN BY:	BAW	
REVIEWED BY:	GGA	
ISSUED FOR:	BID SET	
DATE:	08.23.2024	
DRAWING NAME:		

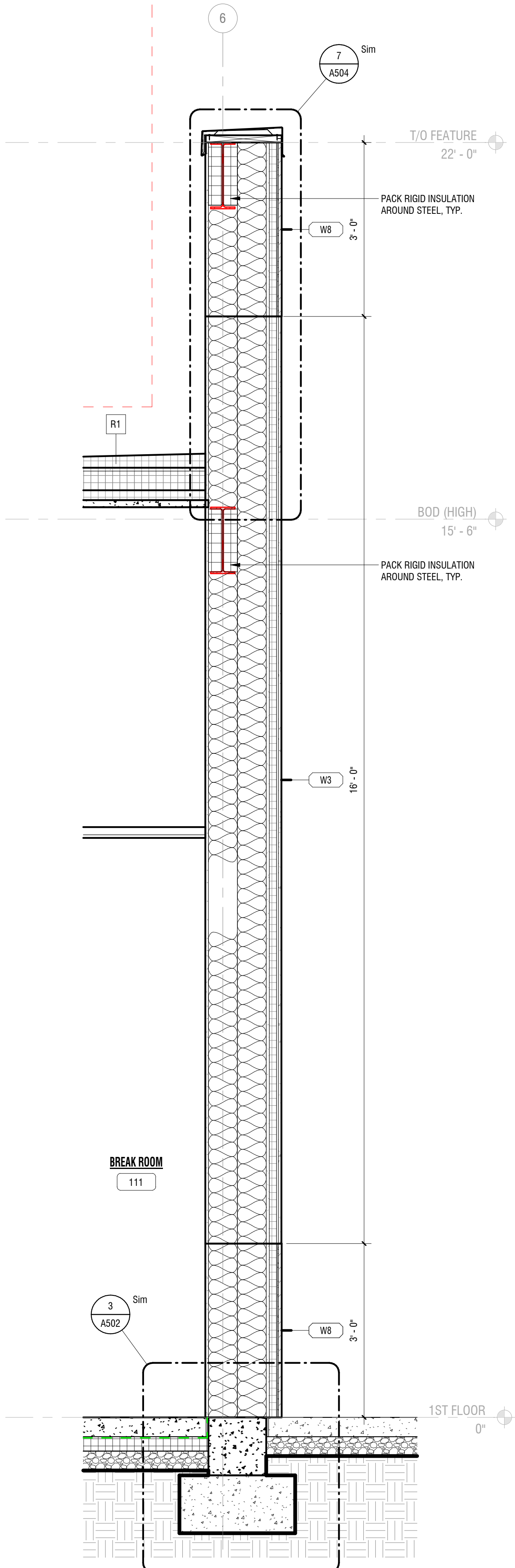
WALL SECTIONS

DRAWING NUMBER:

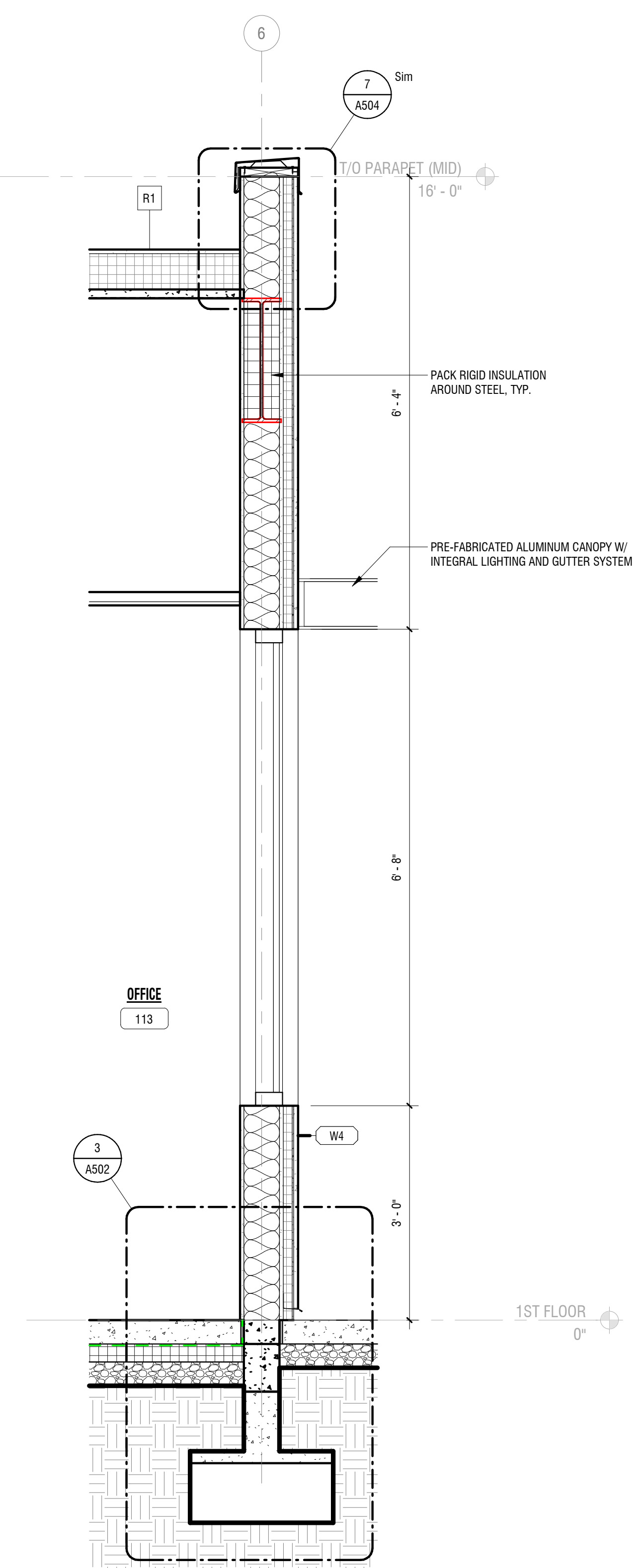
A311



1 WALL SECTION @ MOTHER'S RM
SCALE: 3/4" = 1'-0"



2 WALL SECTION @ BREAK RM
SCALE: 3/4" = 1'-0"



3 WALL SECTION @ PRINT RM
SCALE: 3/4" = 1'-0"

8/22/2024 2:36:32 PM



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NO.	DATE	DESCRIPTION
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PROJECT NUMBER: 2230150

DRAWN BY: BAW

REVIEWED BY: GGA

ISSUED FOR: BID SET

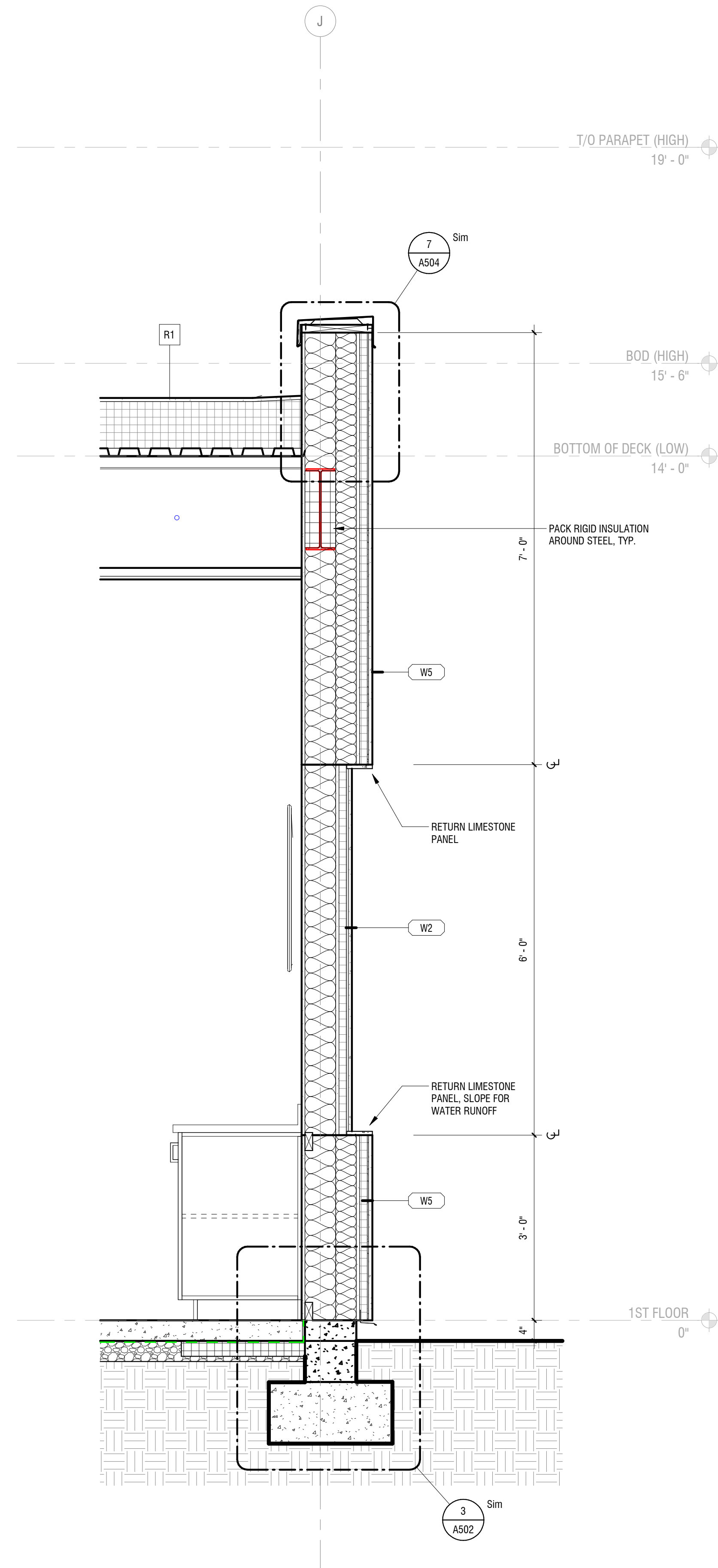
DATE: 08.23.2024

DRAWING NAME:

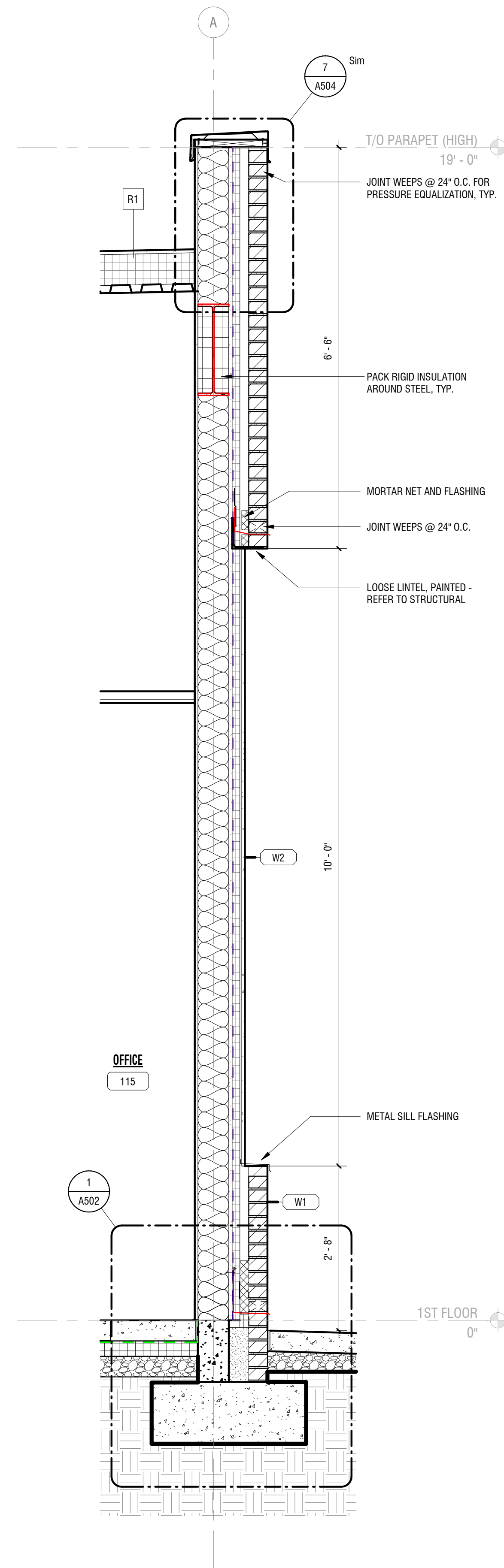
WALL SECTIONS

DRAWING NUMBER:

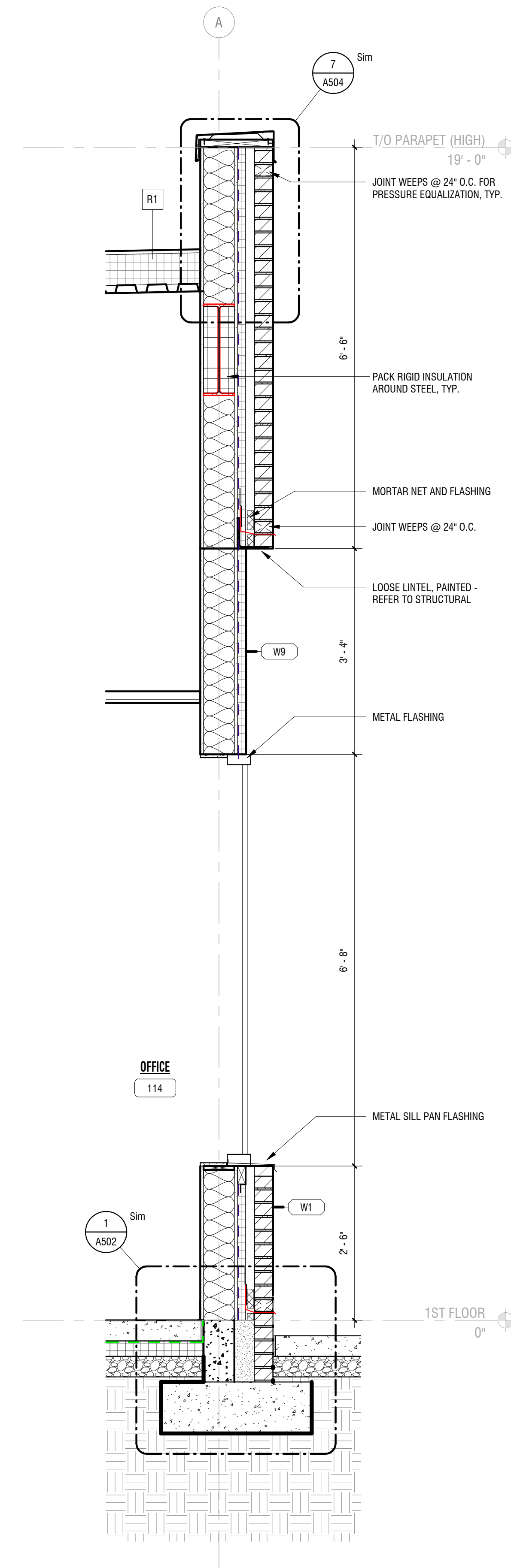
A312



3 WALL SECTION @ TELLER
A312 SCALE: 3/4" = 1'-0"



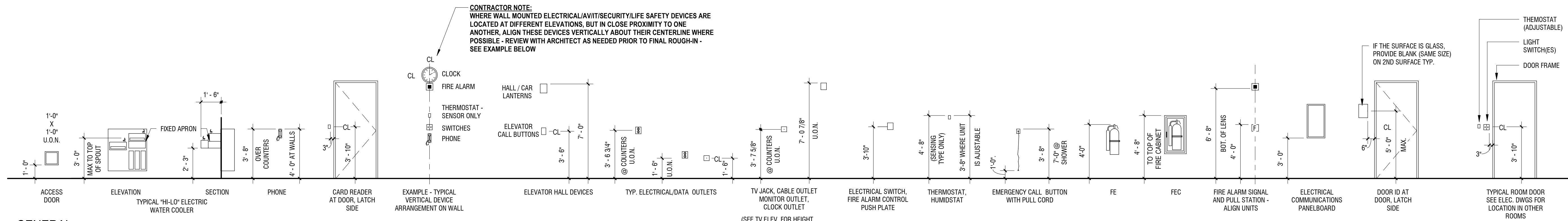
2 WALL SECTION @ OFFICE 115
A312 SCALE: 3/4" = 1'-0"



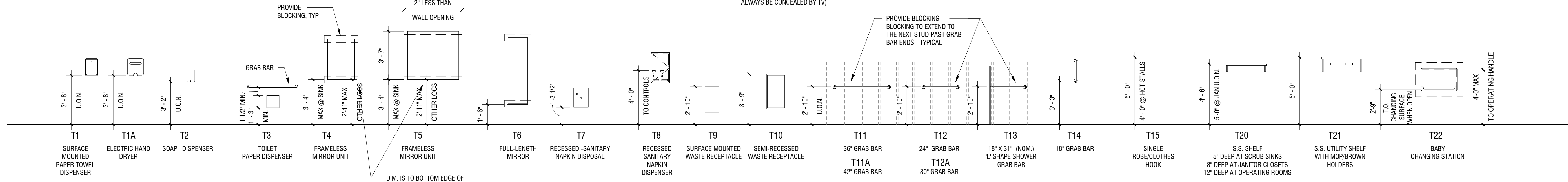
1 WALL SECTION @ OFFICE 114
A312 SCALE: 3/4" = 1'-0"



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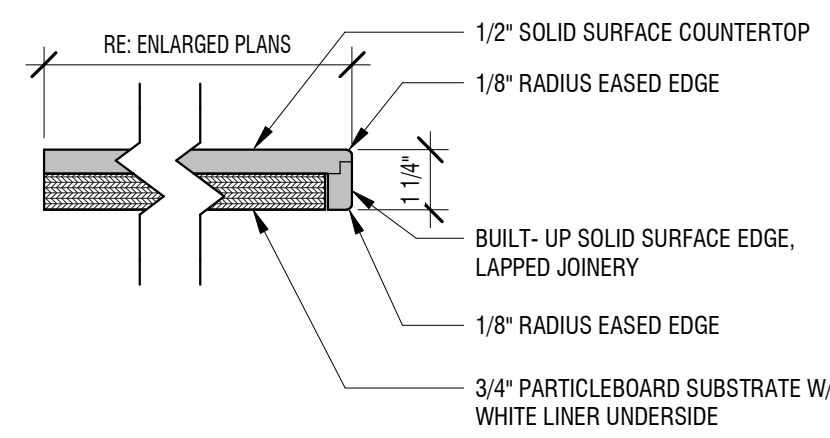
GENERAL



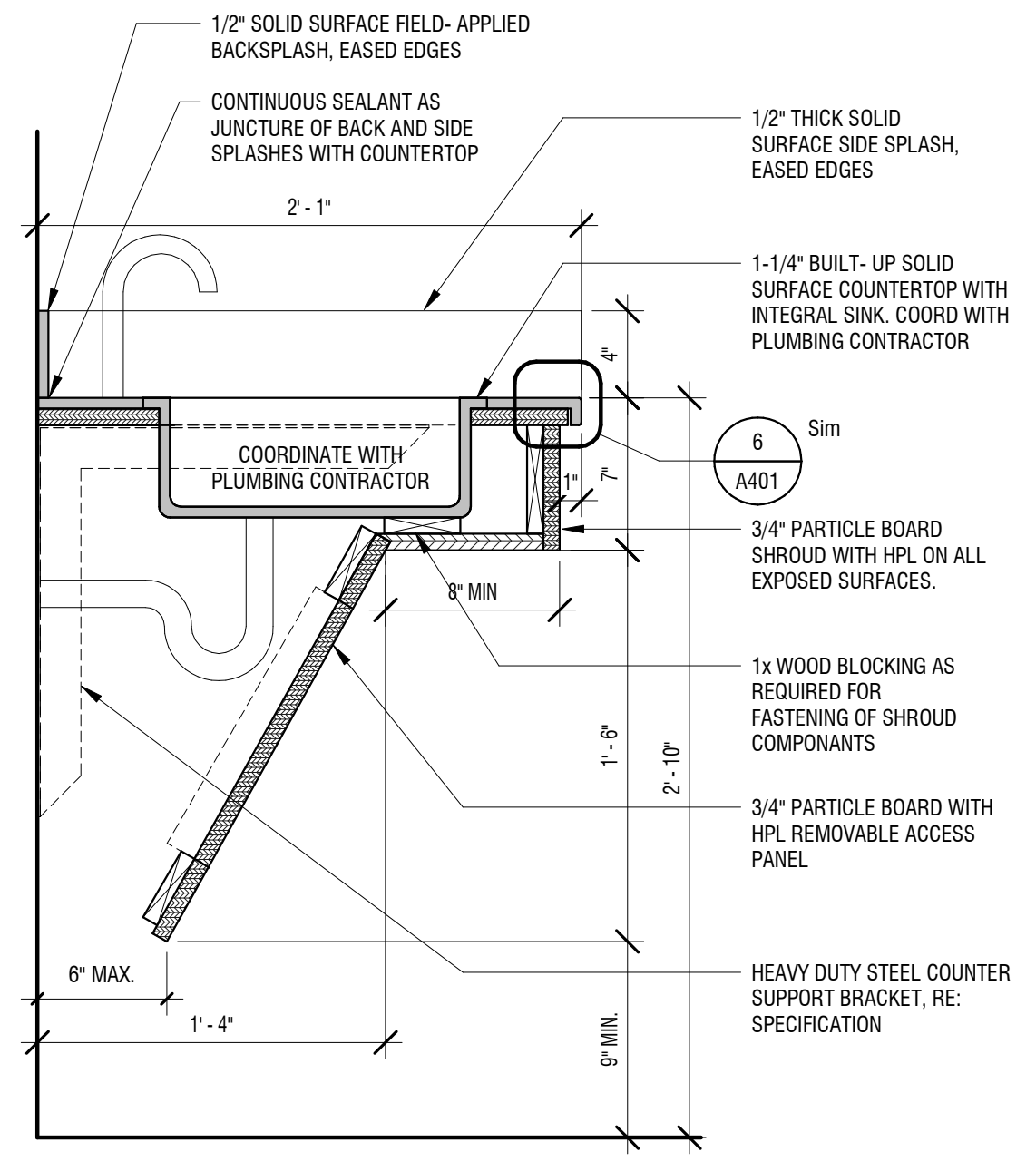
TOILET ACCESSORIES

NOTE:
ALL DIMENSIONS INDICATED ARE TO FACE OF FINISH MATERIAL (i.e. CERAMIC TILE)

7 TYPICAL MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"



6 TYPICAL SSR COUNTERTOP EDGE DETAIL
SCALE: 3" = 1'-0"



5 TYPICAL SINK COUNTERTOP/CASEWORK DETAIL
SCALE: 1 1/2" = 1'-0"

4 INTERIOR ELEVATION @ DOOR
SCALE: 1/4" = 1'-0"

3 INTERIOR ELEVATION @ GRAB BAR
SCALE: 1/4" = 1'-0"

2 INTERIOR ELEVATION @ WATER CLOSET
SCALE: 1/4" = 1'-0"

1 ENLARGED PLAN @ RESTROOMS
SCALE: 3/8" = 1'-0"

ACCESSORY SCHEDULE			
Type Mark	Count	Description	Model
T1	2	SURFACE MOUNTED PAPER TOWEL DISPENSER	B-262 BOBRICK OR EQUAL
T2	2	TOUCHLESS SURFACE-MOUNT SOAP DISPENSE	B-2013 BOBRICK OR EQUAL
T3	2	TOILET TISSUE DISPENSER QUAD	B-2740 BOBRICK OR EQUAL
T4	2	FRAMELESS MIRROR	B-165 2436 BOBRICK OR EQUAL
T7	2	SANITARY NAPKIN DISPOSAL	B-5270 BOBRICK OR EQUAL
T11	2	36" GRAB BAR (Ø 1 1/2")	B-6806 x 36 BOBRICK OR EQUAL
T11A	2	42" GRAB BAR (Ø 1 1/2")	B-6806 x 42 BOBRICK OR EQUAL
T14	2	18" GRAB BAR (Ø 1 1/2")	B-6806 x 18 BOBRICK OR EQUAL
T15	3	ROBE HOOK	B-672 BOBRICK OR EQUAL

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DATE:	08.23.2024	
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ENLARGED TOILET PLANS, ELEVATIONS AND TYPICAL MOUNTING HEIGHTS

DRAWING NUMBER:

A401

ALL MILLWORK BY OWNER INCLUDING BREAKROOM AND BATHROOM



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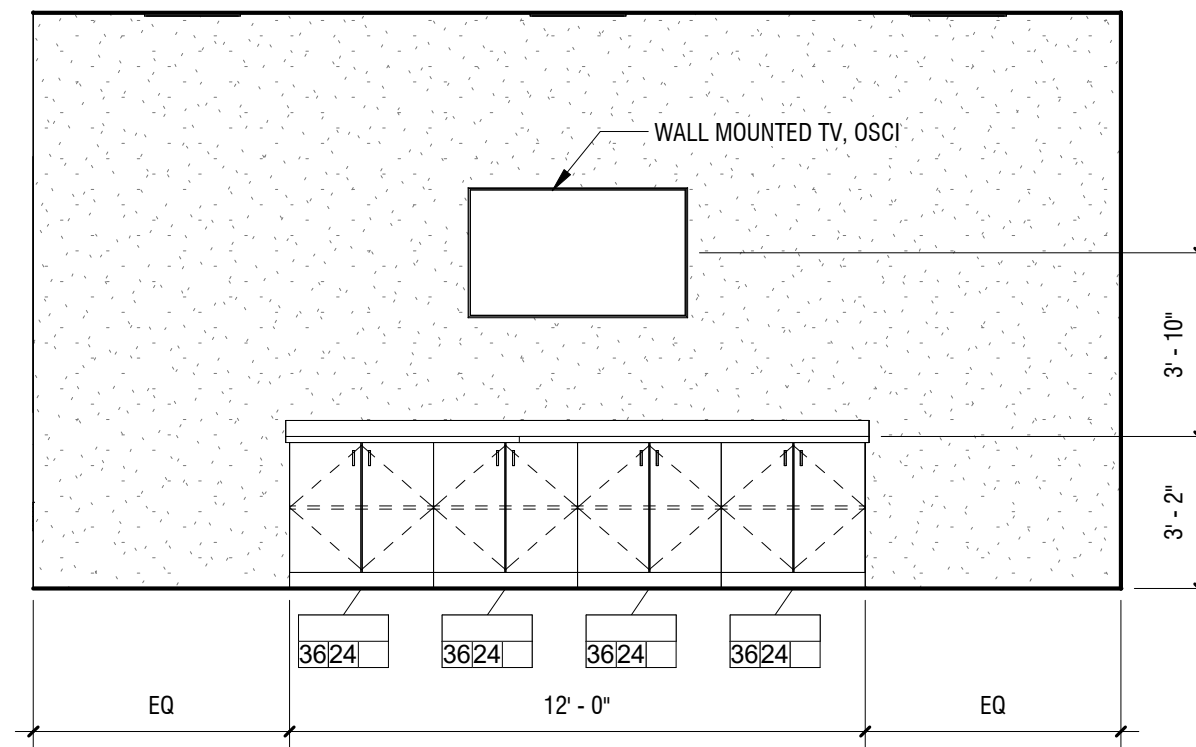
DATE: 08.23.2024

DRAWING NAME:

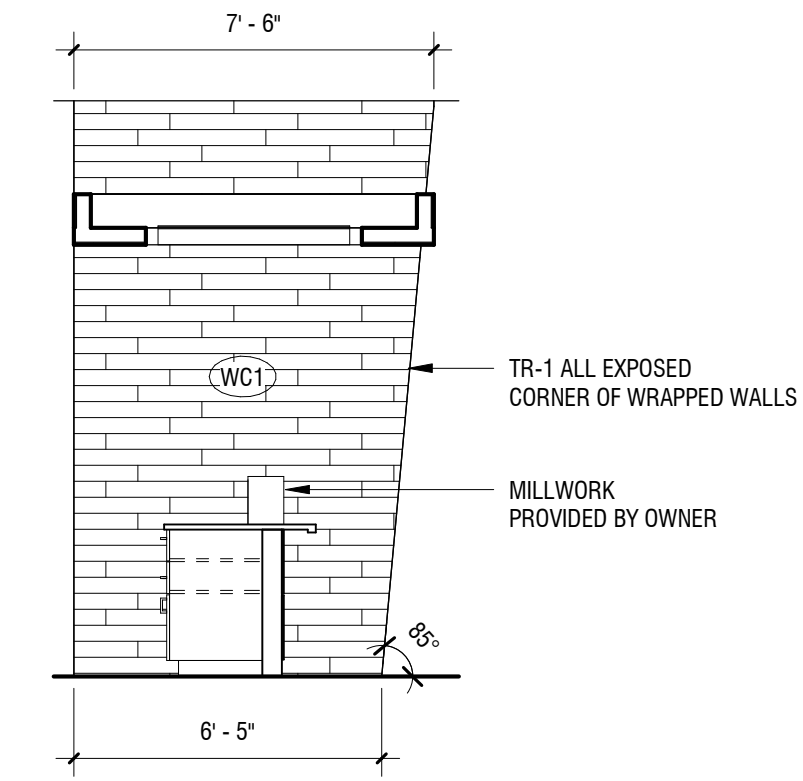
**ENLARGED PLANS AND
INTERIOR ELEVATIONS**

DRAWING NUMBER:

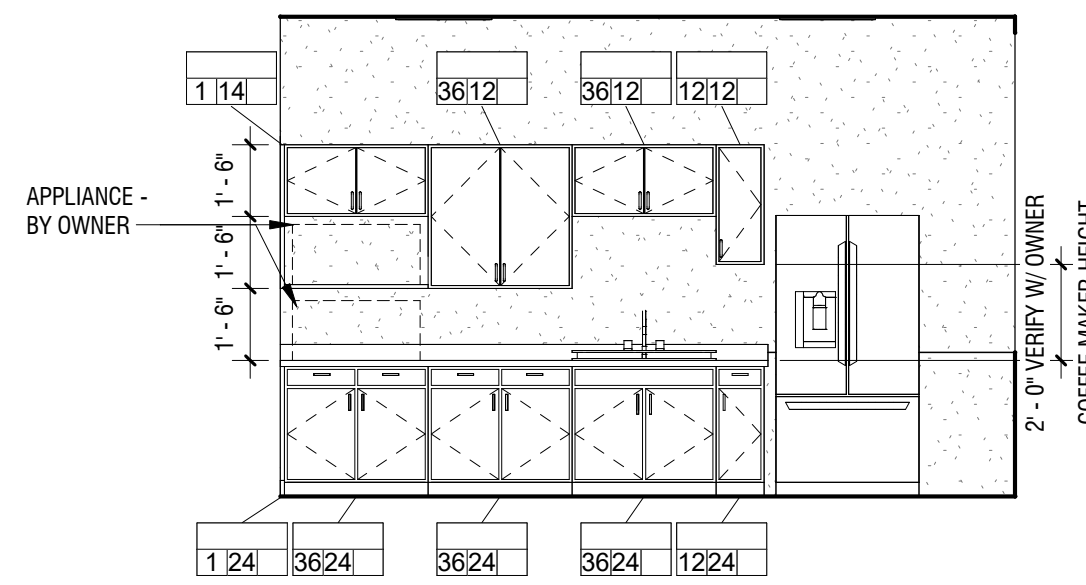
A402



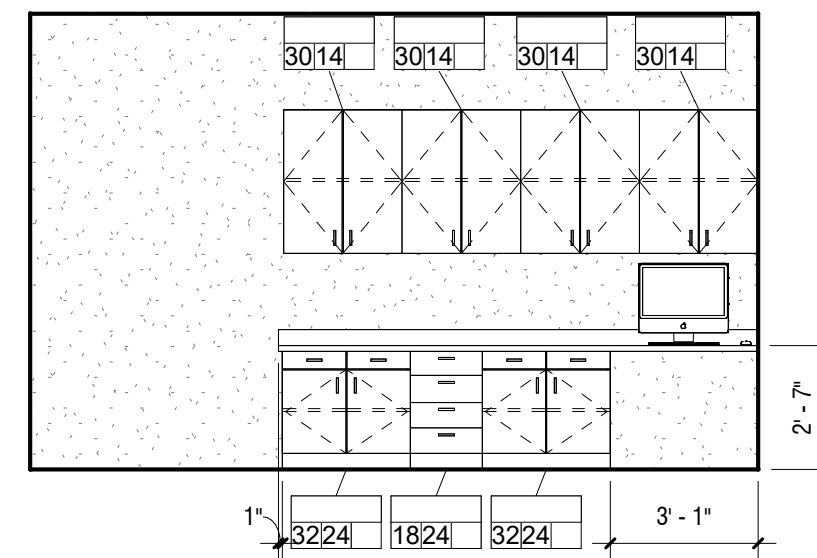
7 INTERIOR ELEVATION @ TELLER
SCALE: 1/4" = 1'-0"



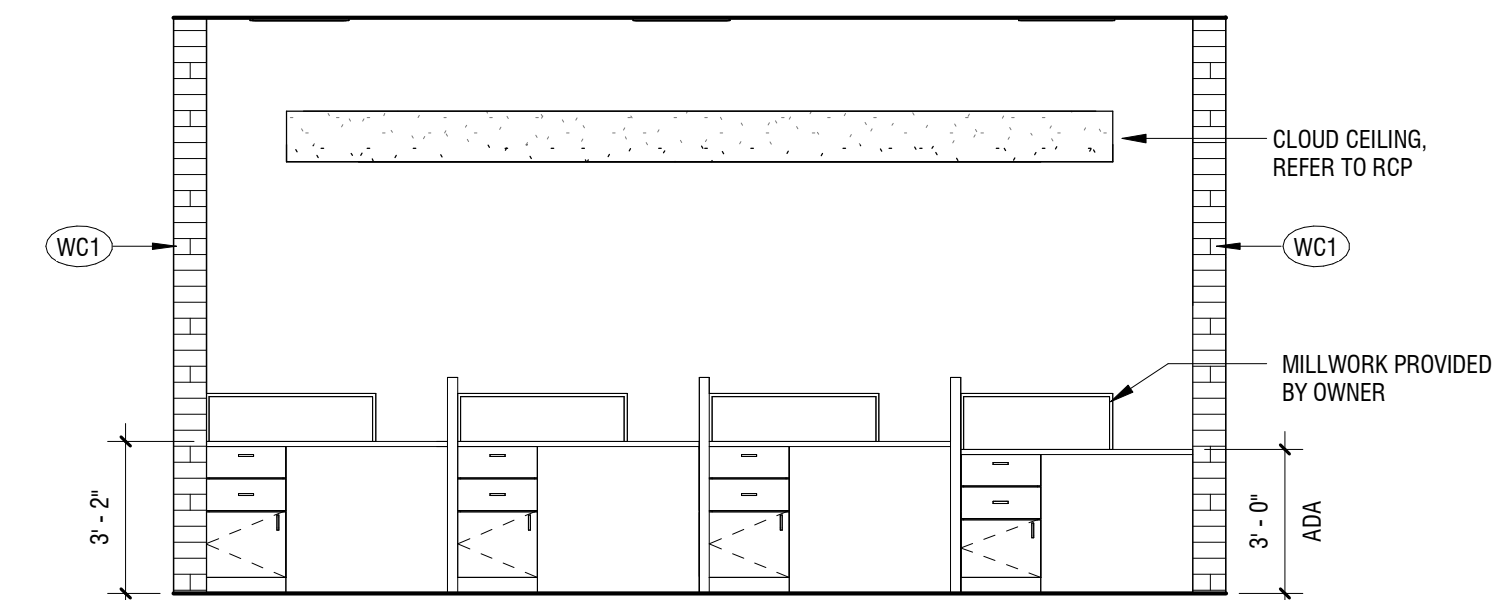
6 INTERIOR ELEVATION @ WRAPPED TELLER WALL
SCALE: 1/4" = 1'-0"



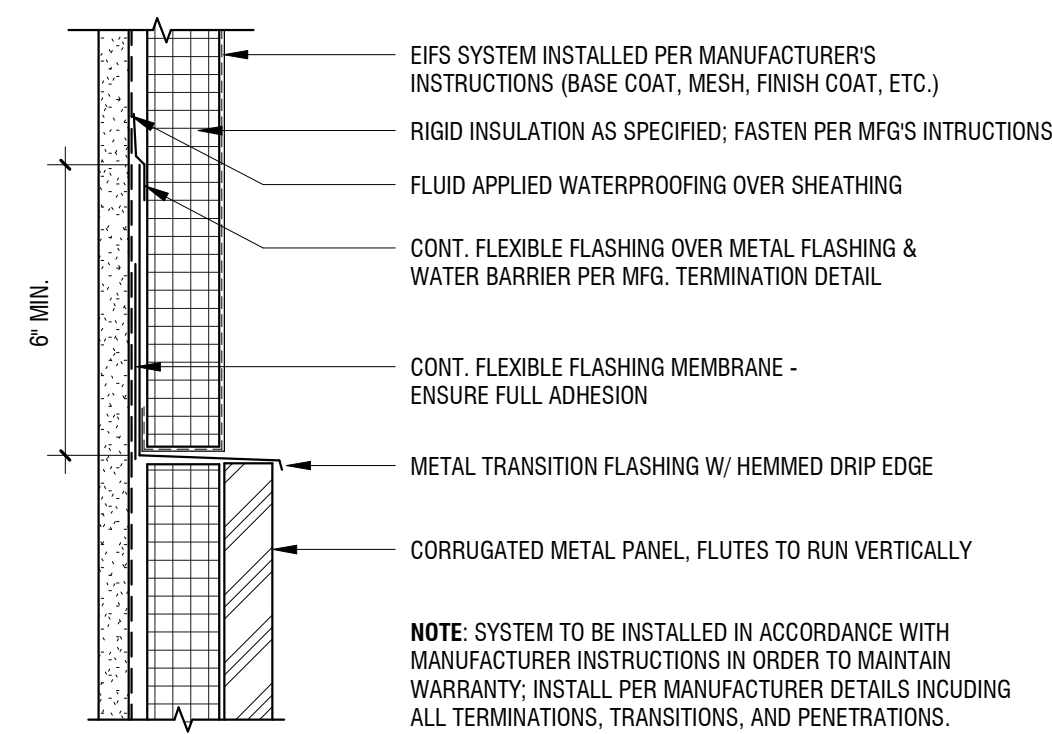
5 INTERIOR ELEVATION @ BREAKROOM
SCALE: 1/4" = 1'-0"



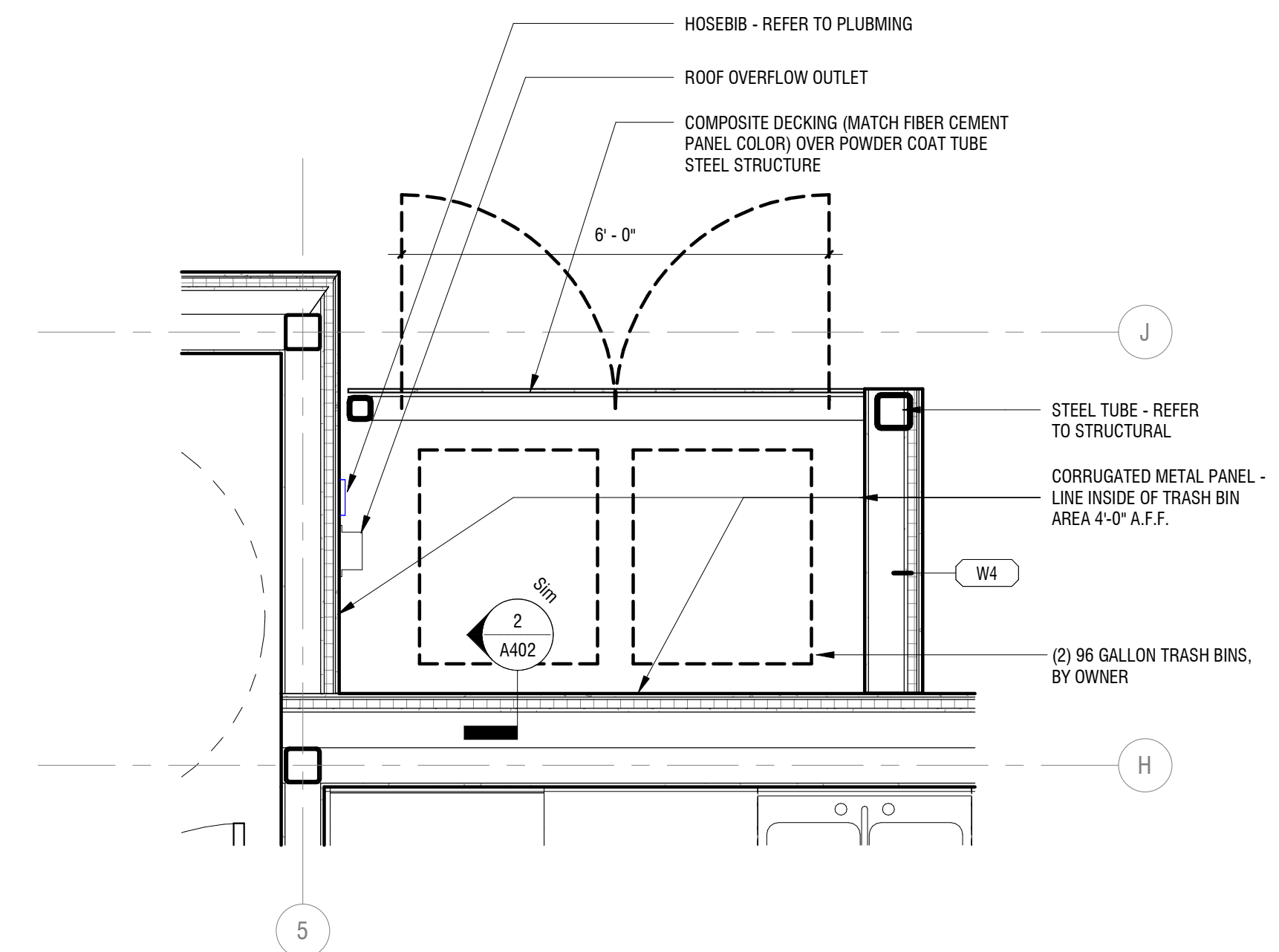
4 INTERIOR ELEVATION @ BALANCE ROOM
SCALE: 1/4" = 1'-0"



3 INTERIOR ELEVATION @ TELLER LINE
SCALE: 1/4" = 1'-0"



2 EIFS TERMINATION DETAIL
SCALE: 3" = 1'-0"



1 ENLARGED PLAN @ DUMPSTER ENCLOSURE
SCALE: 1/2" = 1'-0"



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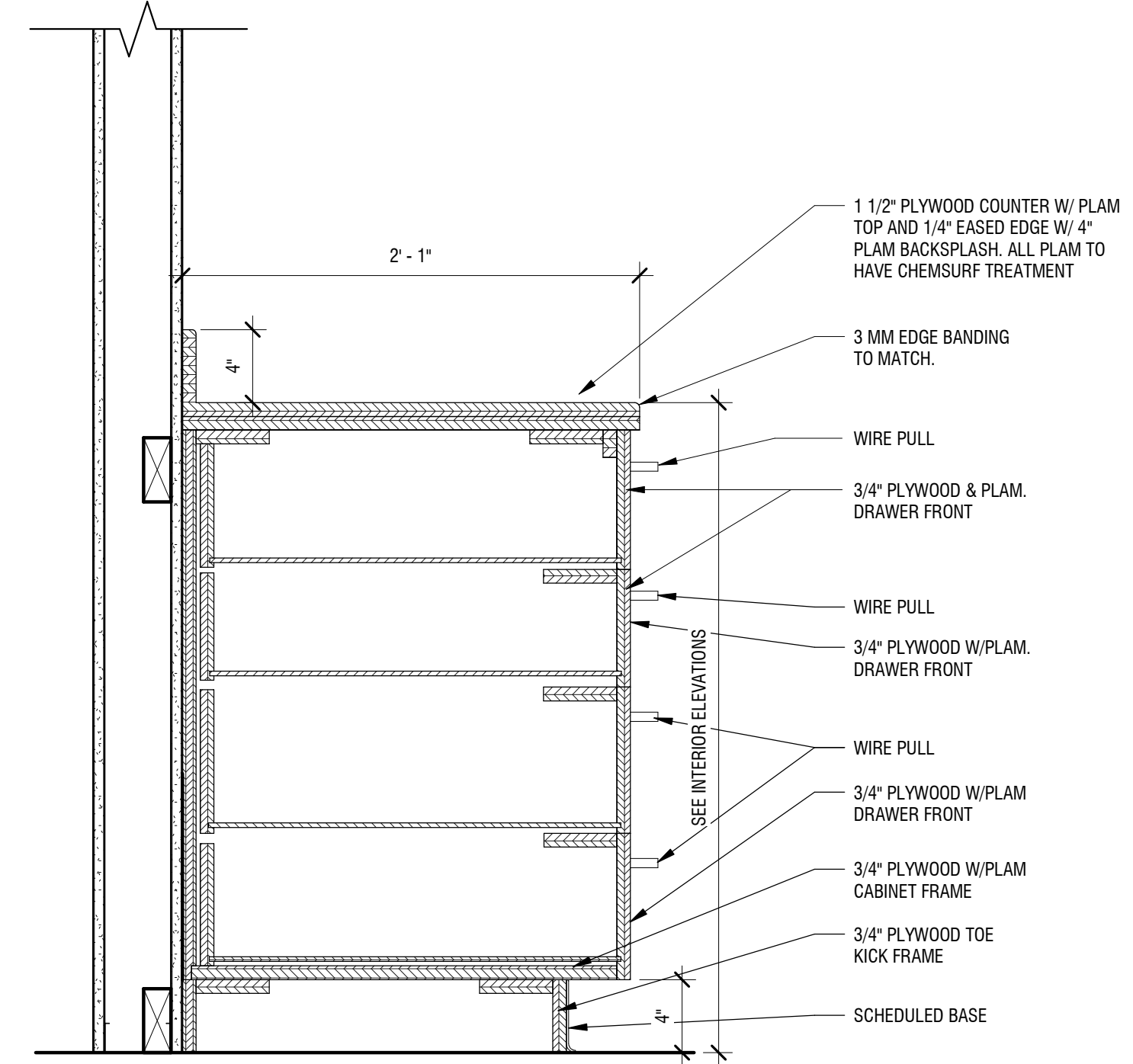
DATE: 08.23.2024

DRAWING NAME:

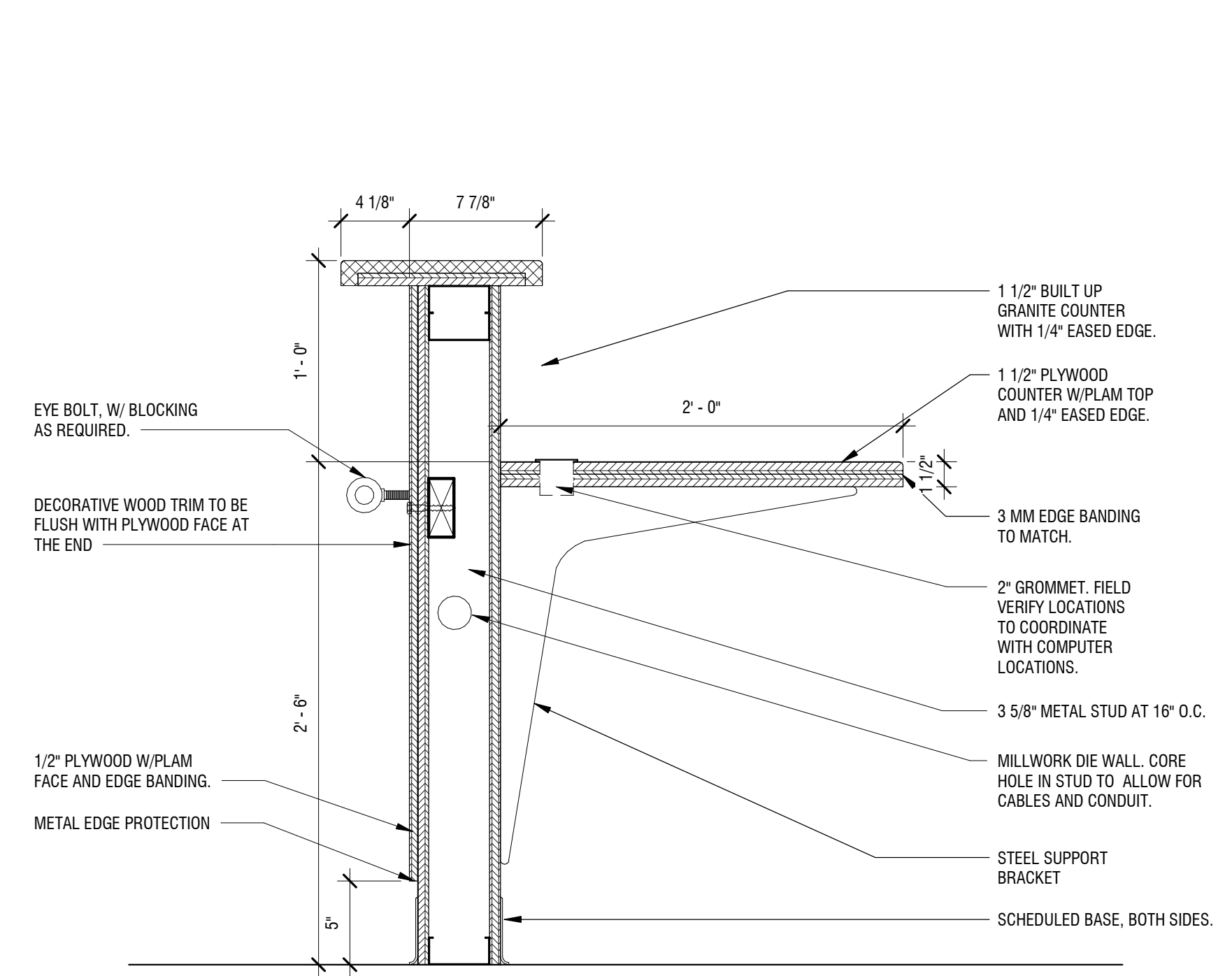
MILLWORK DETAILS

DRAWING NUMBER:

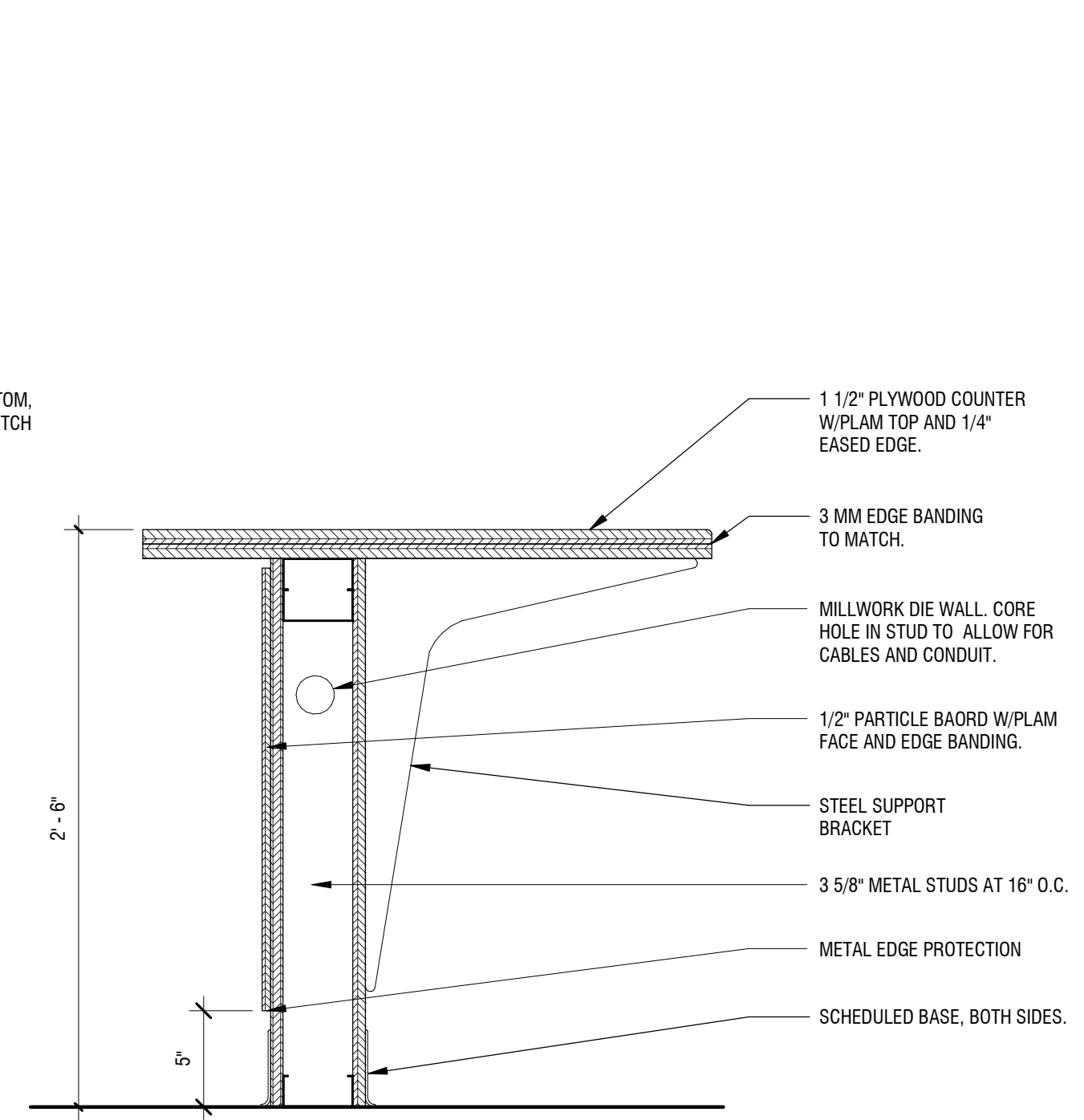
A410



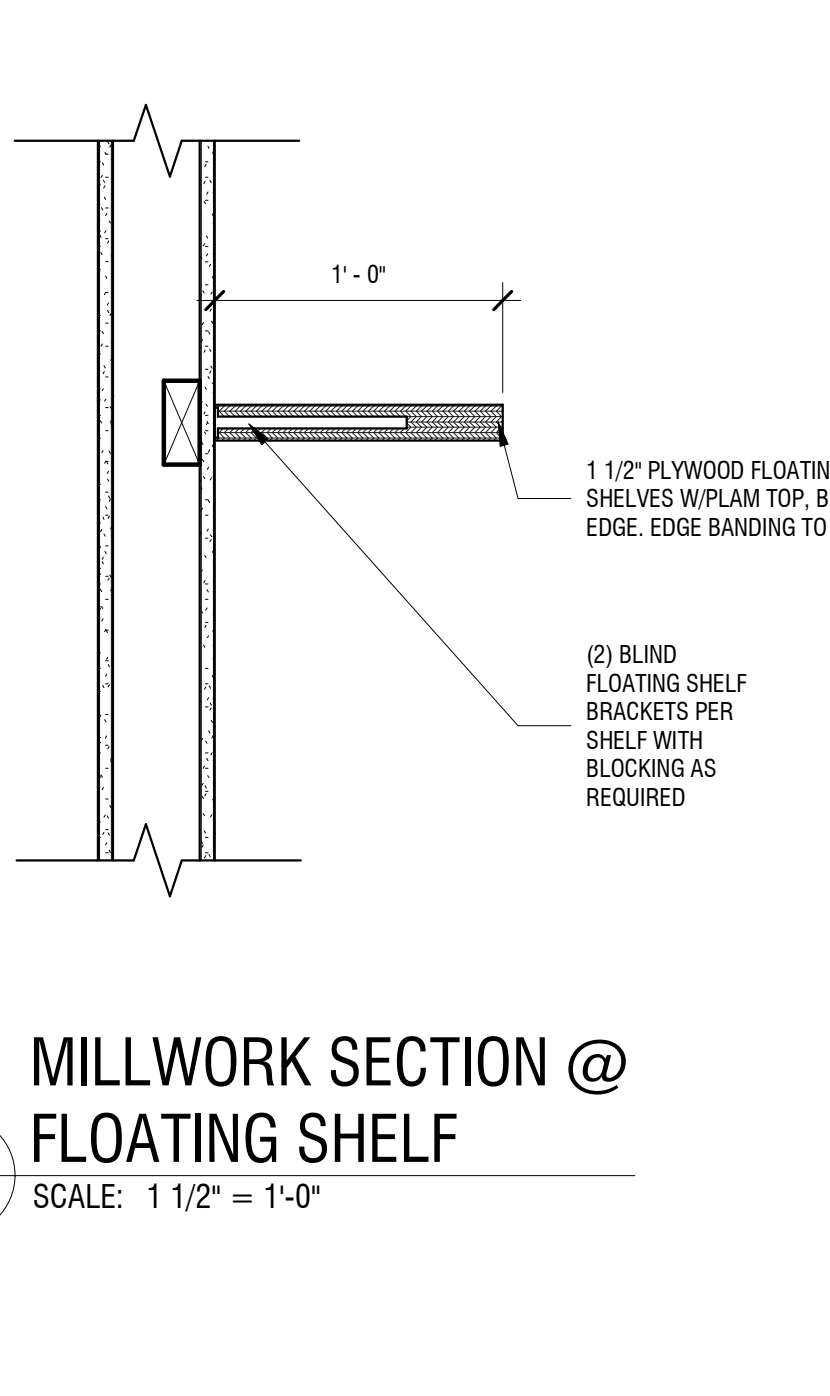
MILLWORK SECTION @ LOWER 4-DRAWER CABINET
SCALE: 1 1/2" = 1'-0"



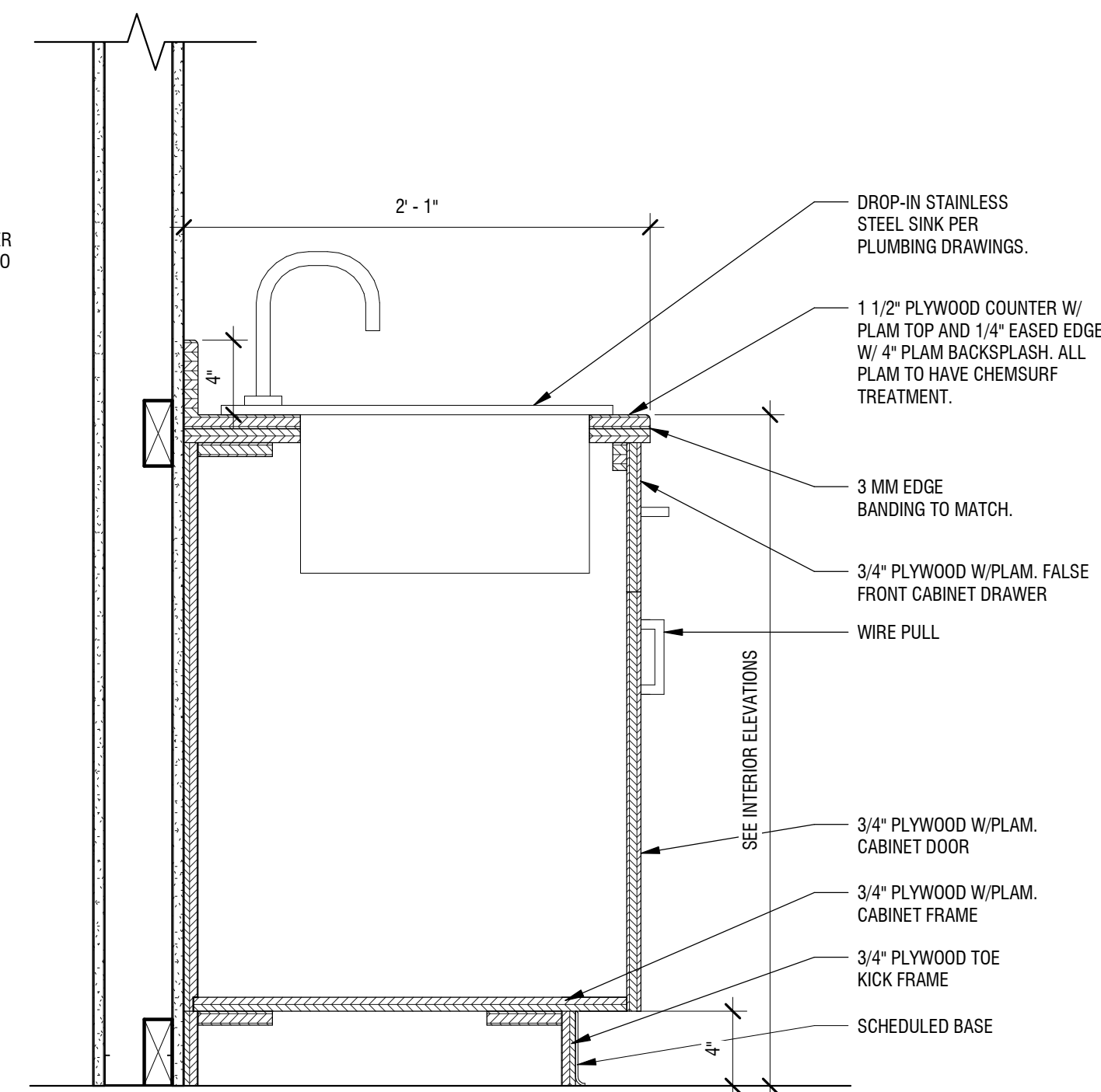
MILLWORK SECTION @ RECEPTION COUNTER
SCALE: 1 1/2" = 1'-0"



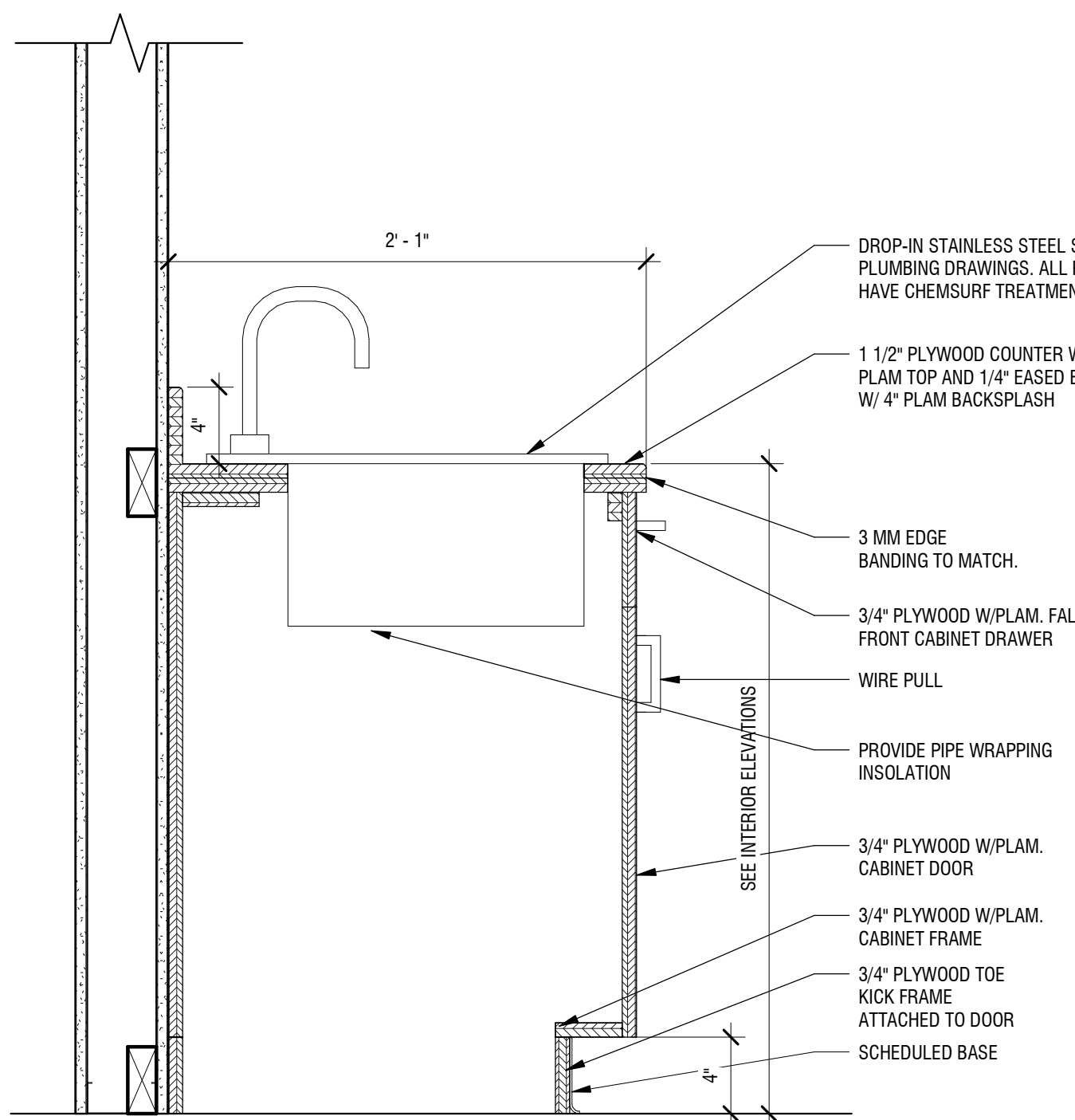
MILLWORK SECTION @ ADA RECEPTION COUNTER
SCALE: 1 1/2" = 1'-0"



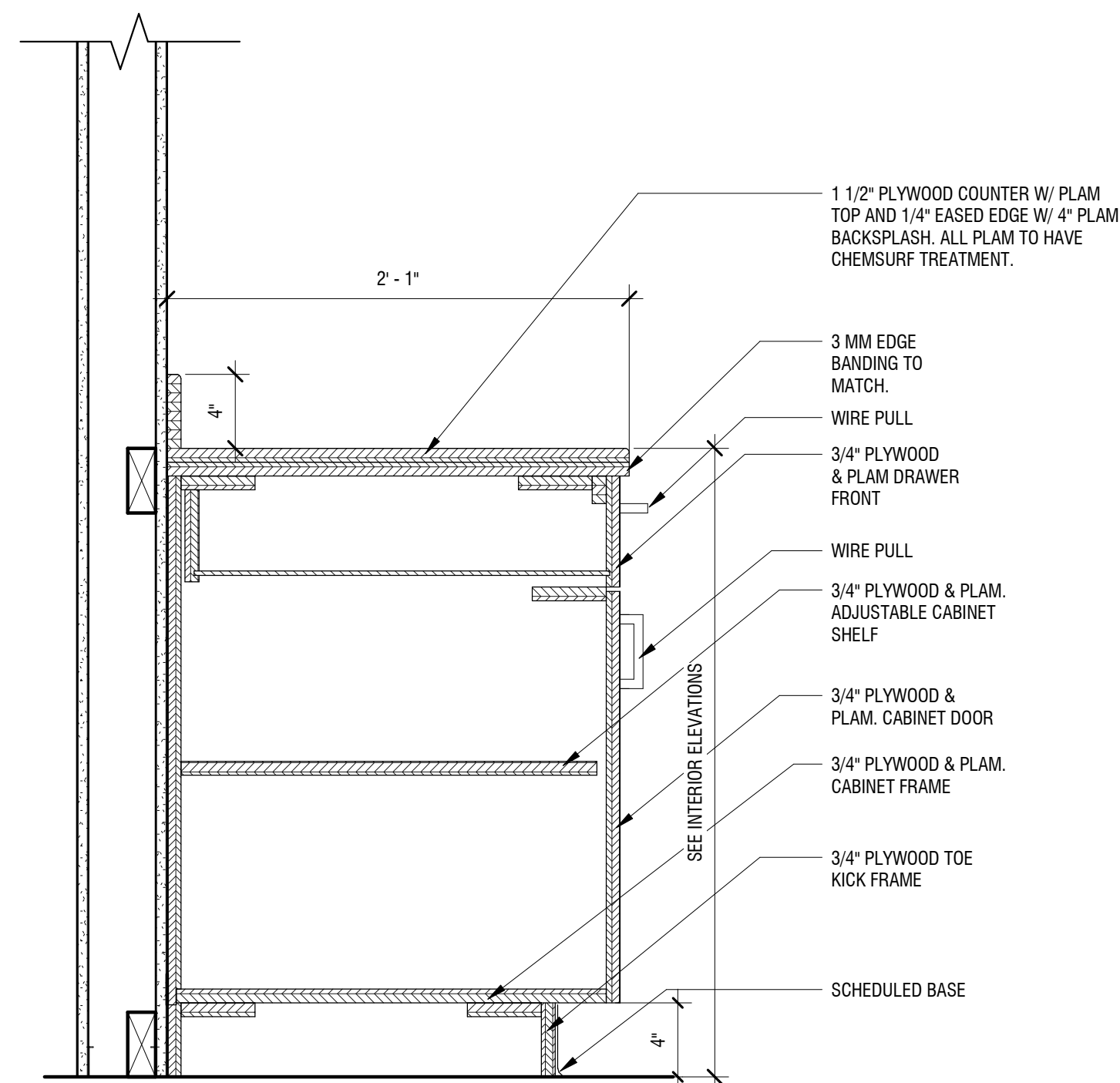
MILLWORK SECTION @ FLOATING SHELF
SCALE: 1 1/2" = 1'-0"



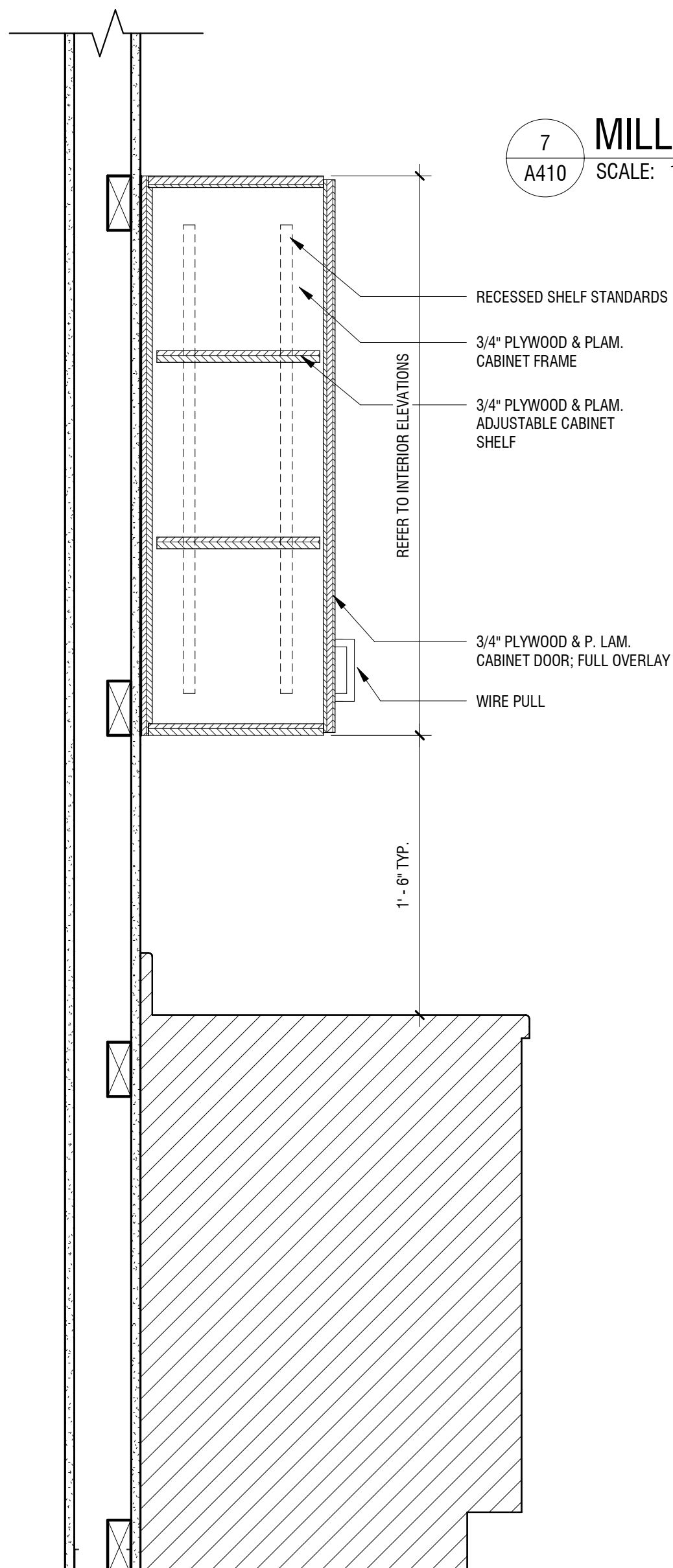
MILLWORK SECTION @ SINK CABINET
SCALE: 1 1/2" = 1'-0"



MILLWORK SECTION @ ADA SINK
SCALE: 1 1/2" = 1'-0"



MILLWORK SECTION @ LOWER CABINET
SCALE: 1 1/2" = 1'-0"

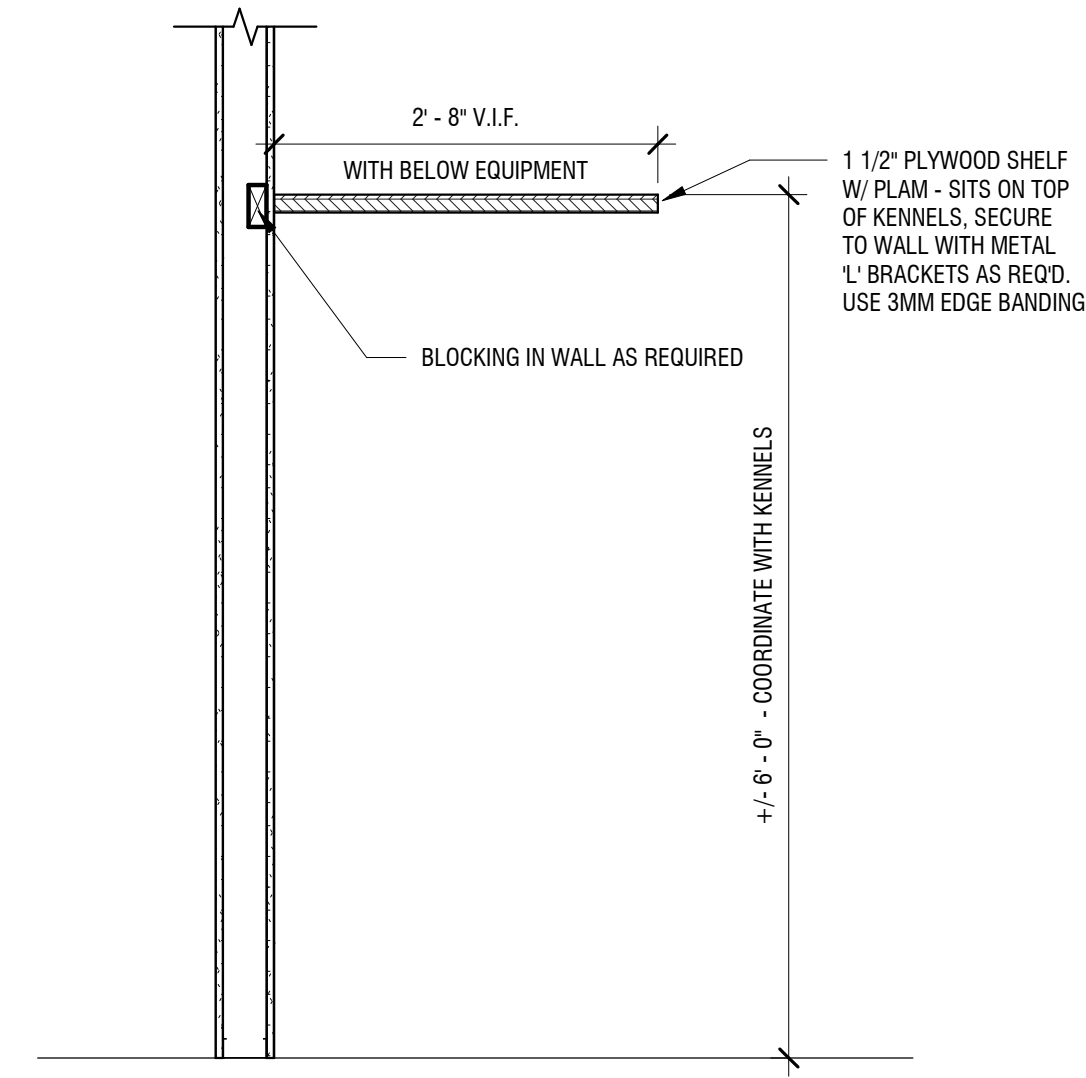


MILLWORK SECTION @ UPPER CABINET
SCALE: 1 1/2" = 1'-0"

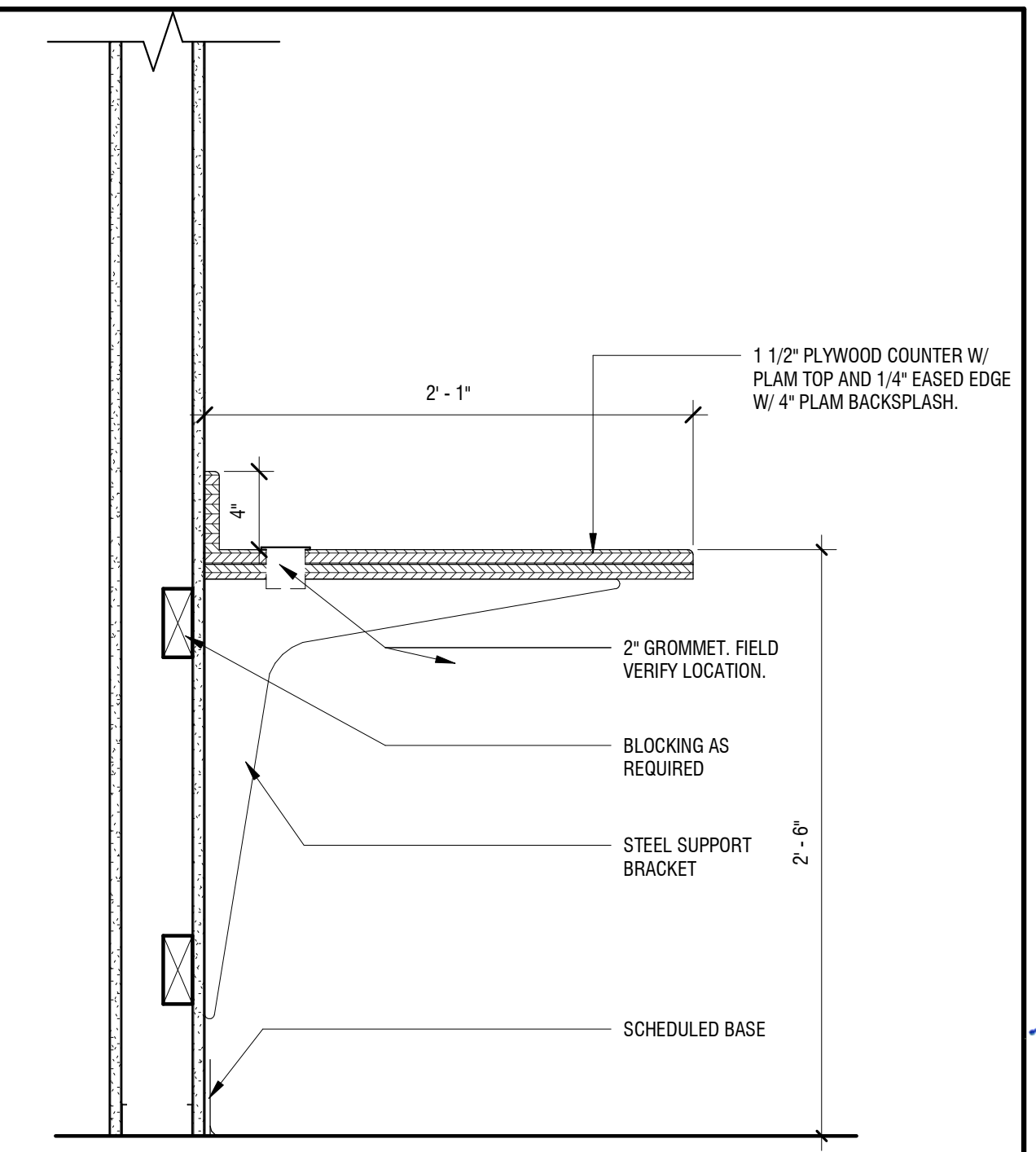
8/22/2024 2:36:41 PM



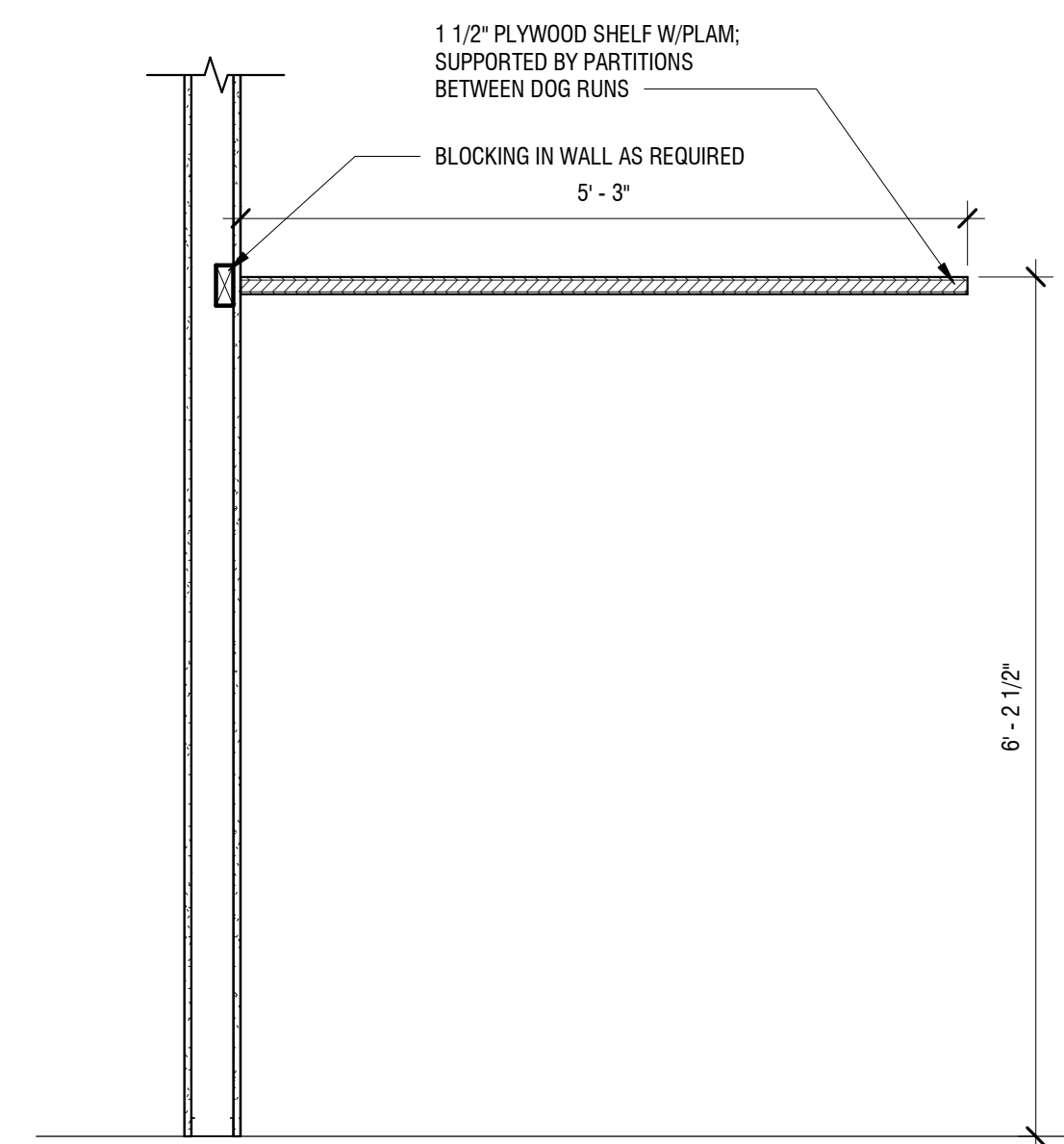
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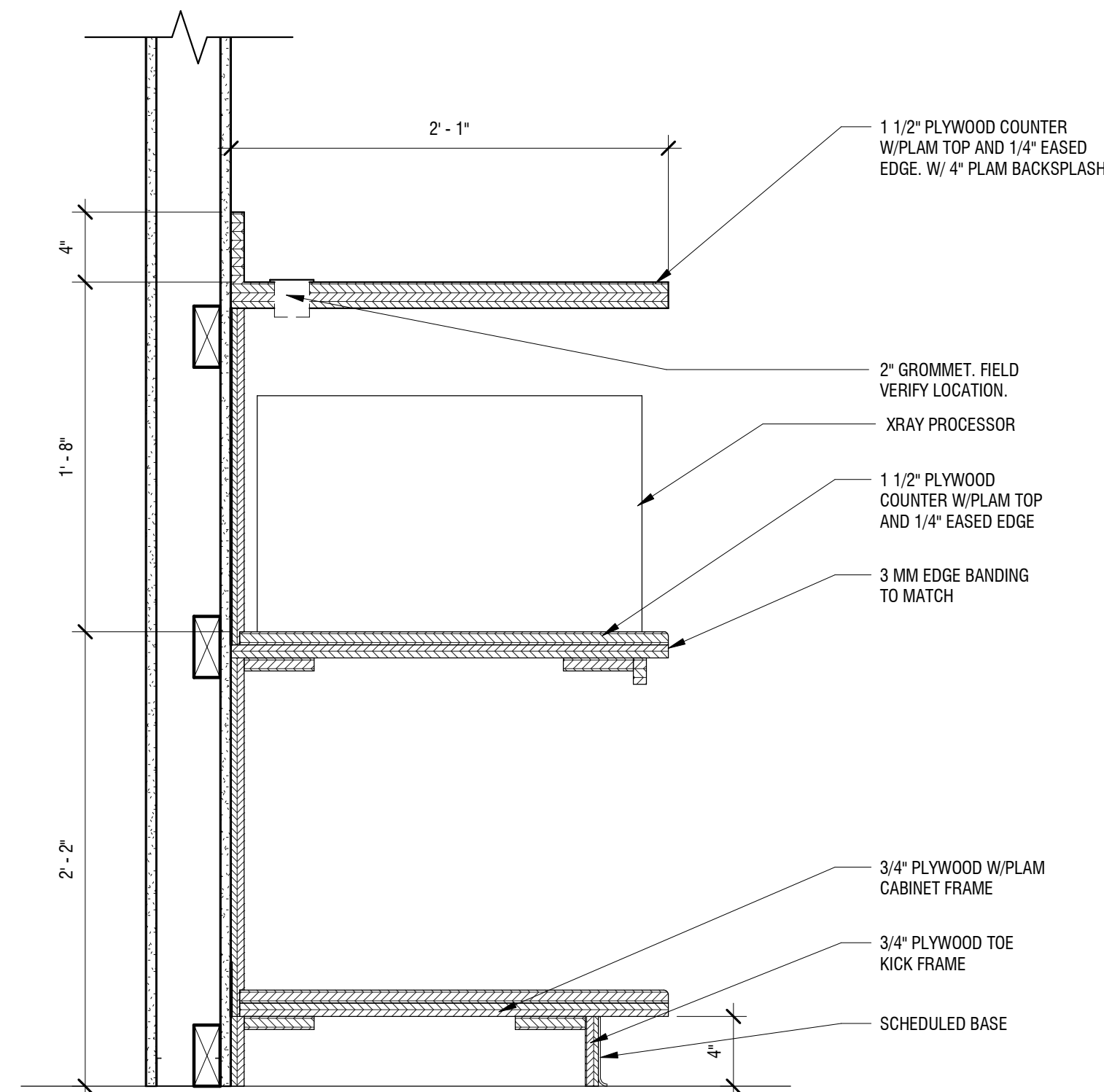
4 MILLWORK SECTION @ DOG RECOVERY
A411 SCALE: 3/4" = 1'-0"



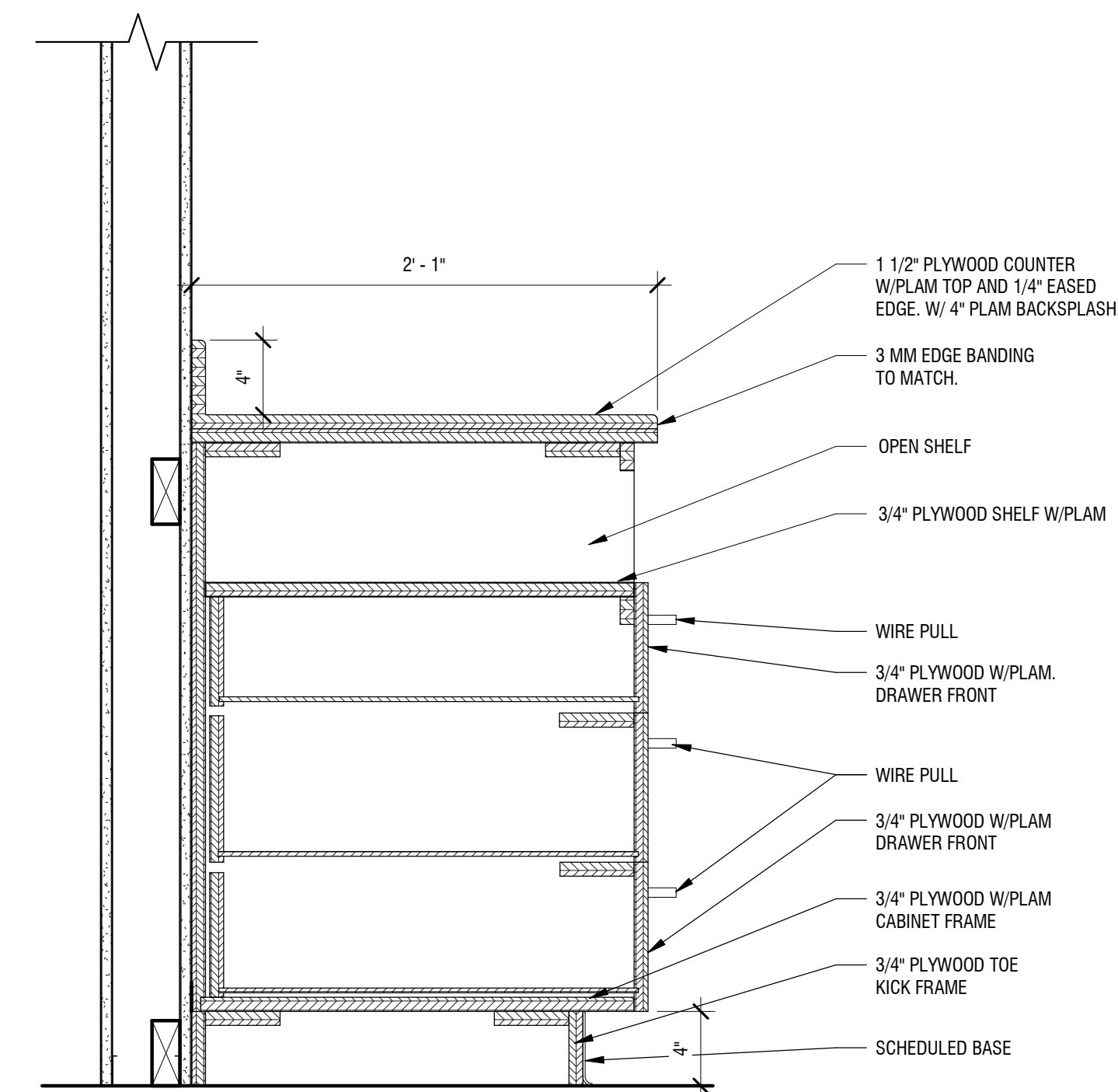
5 MILLWORK SECTION @ WORK SURFACE
A411 SCALE: 1 1/2" = 1'-0"



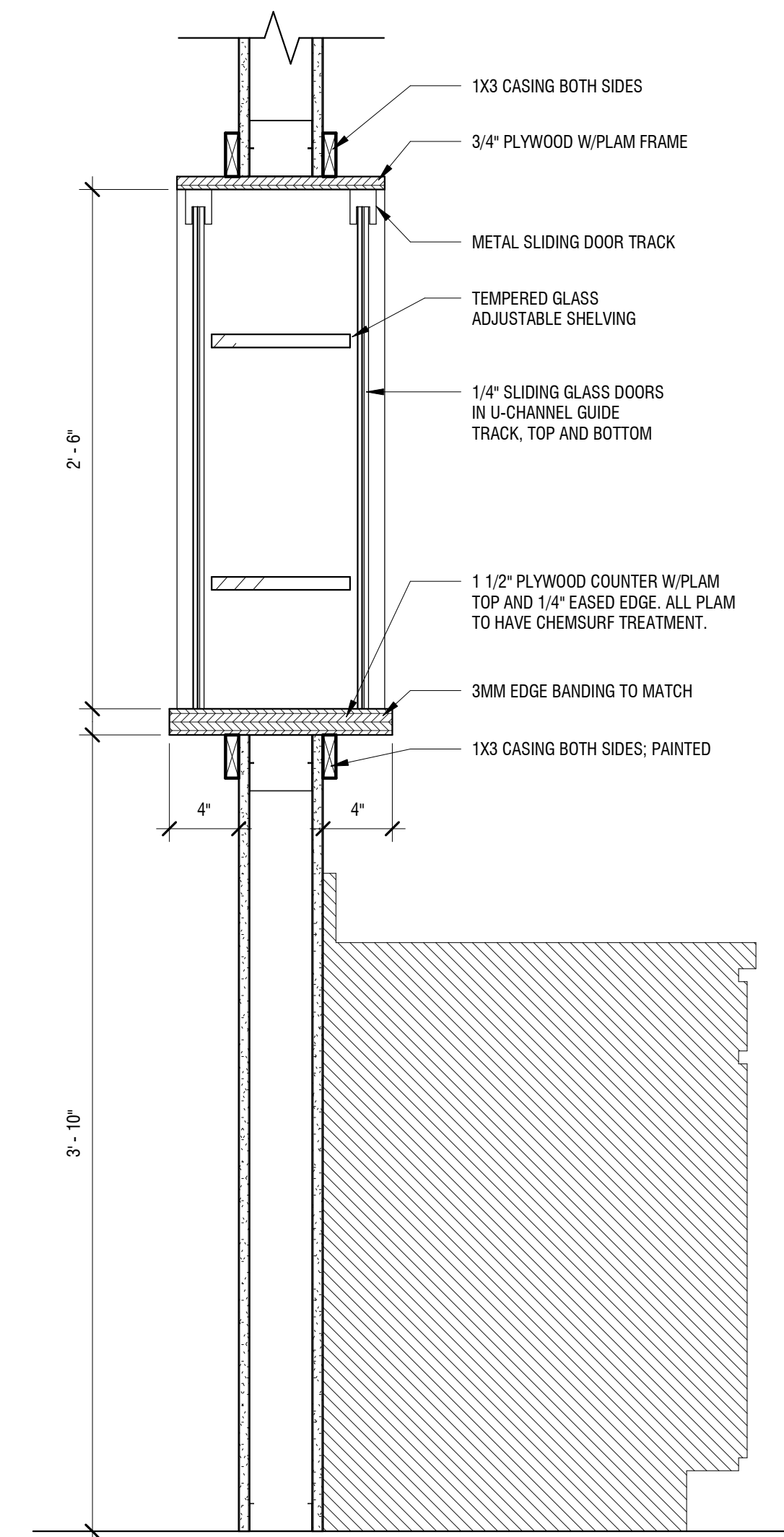
8 MILLWORK SECTION @ DOG RUNS
A411 SCALE: 3/4" = 1'-0"



3 MILLWORK SECTION @ RADIOLOGY
A411 SCALE: 1 1/2" = 1'-0"



2 MILLWORK SECTION @ EXAM ROOM CABINET
A411 SCALE: 1 1/2" = 1'-0"



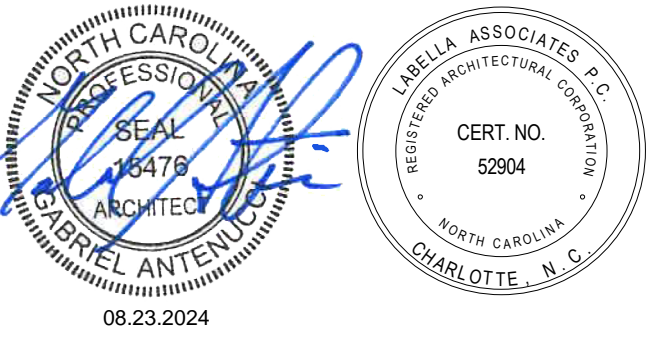
1 MILLWORK SECTION @ SURGERY PASS THROUGH
A411 SCALE: 1 1/2" = 1'-0"

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
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DATE:		08.23.2024
DRAWING NAME:		

MILLWORK DETAILS

DRAWING NUMBER:

A411



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DATE: 08.23.2024

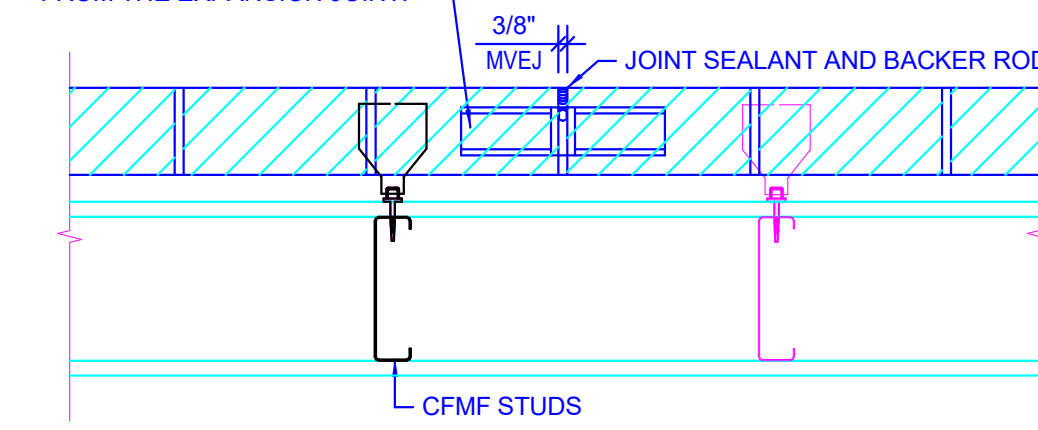
DRAWING NAME:

PLAN DETAILS

DRAWING NUMBER:

A501

NOTE:
THIS DETAIL SHOWS TYPICAL ANCHORAGE, REINFORCING AND MASONRY VENEER EXPANSION JOINT INFO. FOR ALL SIMILAR PLAN DETAILS.
IF MASONRY VENEER TIE OCCURS AT EXPANSION JOINT CUT ONE SIDE OF TIE AND INSTALL JOINT STABILIZATION ANCHOR IN MASONRY VENEER ACROSS EXPANSION JOINT. ALSO INSTALL JOINT STABILIZATION ANCHOR IF TIES OCCUR MORE THAN 8" FROM THE EXPANSION JOINT.



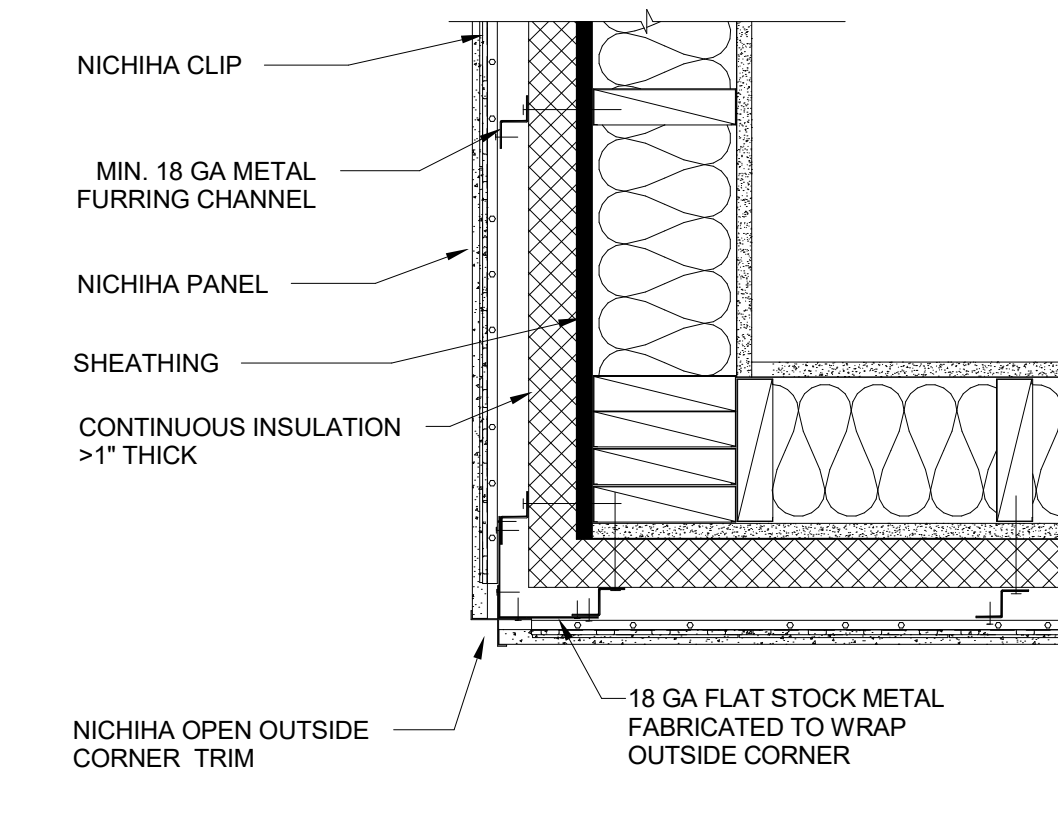
LOCATE MASONRY VENEER EXPANSION JOINTS AS SHOWN IN ARCHITECTURAL BUILDING ELEVATION DRAWINGS. PROVIDE ADDITIONAL JOINTS (COORD W/ ARCH) AS REQUIRED TO COMPLY WITH THE FOLLOWING:

1. AT ALL ABRUPT CHANGES IN WALL HEIGHT.
2. MAXIMUM HORIZONTAL SPACING OF 30'
3. WITHIN 10' FROM A CORNER

8 MASONRY EXPANSION JOINT @ MTL STUD
SCALE: 1 1/2" = 1'-0"

NOTES:

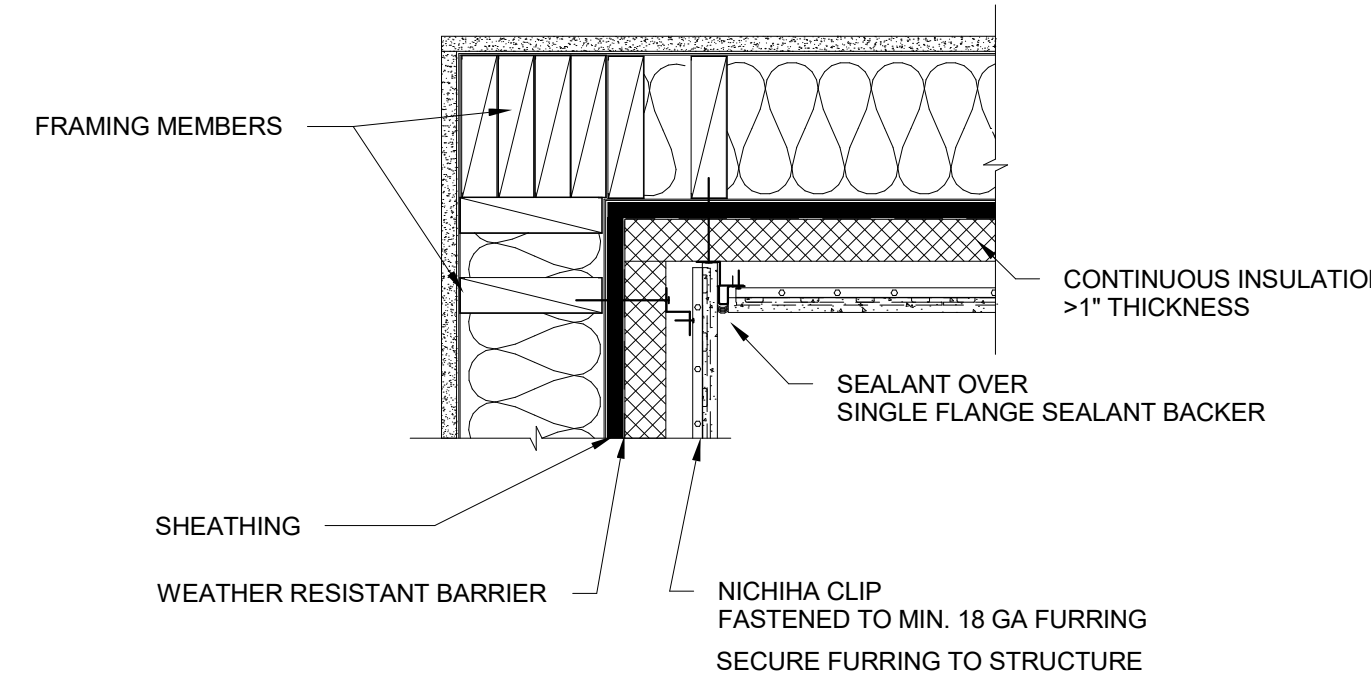
1. THIS CONCEPTUAL DETAIL IS A GUIDE FOR INSTALLATION OF NICHIIHA PRODUCTS. ARCHITECTS/ENGINEERS/CONTRACTORS ARE RESPONSIBLE FOR SUCCESSFUL APPLICATION WHICH DEPENDS UPON SUBSTRATE DESIGN AND CONSTRUCTION BUILT IN ACCORDANCE WITH BEST PRACTICES AND LOCAL BUILDING CODES.
2. NICHIIHA PANEL REPRESENTED HERE IS 5/8" NICHIIHA PRODUCT, ADJUST ACCORDINGLY FOR OTHER NICHIIHA PRODUCT THICKNESSES.
3. SHEATHING REPRESENTED HERE IS 5/8" EXTERIOR GYP. IF USING OTHER THICKNESSES ADJUST ACCORDINGLY. A CODE APPROVED WRB IS REQUIRED. PLACE PER LOCAL CODE.
4. REFER TO THE CONTINUOUS INSULATION SECTION IN THE NICHIIHA INSTALLATION GUIDE - HORIZONTAL AWP. CONSULT A STRUCTURAL ENGINEER TO DESIGN THE FURRING SYSTEM TO MANAGE LOADING REQUIREMENTS.



NICHIIHA - HORIZONTAL AWP - CONTINUOUS INSULATION WITH FURRING - OUTSIDE CORNER - OPEN OUTSIDE CORNER TRIM
SCALE: 1 1/2" = 1'-0"

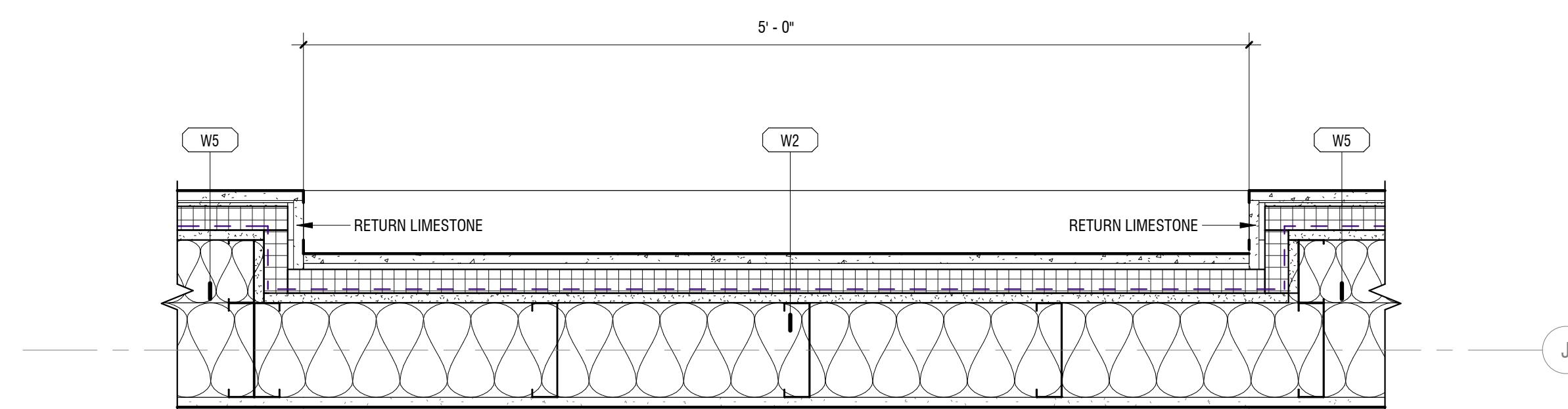
NOTES:

1. THIS CONCEPTUAL DETAIL IS A GUIDE FOR INSTALLATION OF NICHIIHA PRODUCTS. ARCHITECTS/ENGINEERS/CONTRACTORS ARE RESPONSIBLE FOR SUCCESSFUL APPLICATION WHICH DEPENDS UPON SUBSTRATE DESIGN AND CONSTRUCTION BUILT IN ACCORDANCE WITH BEST PRACTICES AND LOCAL BUILDING CODES.
2. NICHIIHA PANEL REPRESENTED HERE IS 5/8" NICHIIHA PRODUCT, ADJUST ACCORDINGLY FOR OTHER NICHIIHA PRODUCT THICKNESSES.
3. ADD STUD, BLOCKING OR STUD EXTENDER AS REQUIRED FOR FURRING AND CLIP ATTACHMENT/FASTENING.
4. A CODE APPROVED WEATHER/WATER RESISTANT BARRIER IS REQUIRED. PLACE PER LOCAL CODE.
5. SHEATHING REPRESENTED HERE IS 1/2" PLYWOOD OR 7/16" OSB. IF USING OTHER THICKNESSES ADJUST ACCORDINGLY.
6. REFER TO THE CONTINUOUS INSULATION SECTION OF THE NICHIIHA INSTALLATION GUIDE - HORIZONTAL AWP. CONSULT A STRUCTURAL ENGINEER TO DESIGN THE FURRING SYSTEM TO MANAGE LOADING REQUIREMENTS.

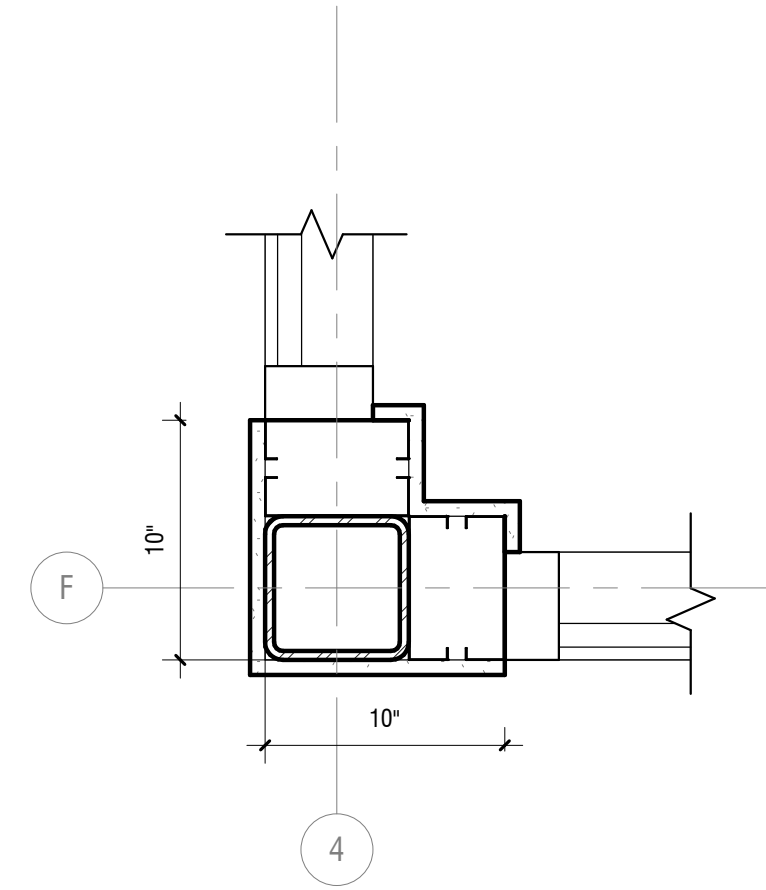


NICHIIHA - HORIZONTAL AWP - CONTINUOUS INSULATION WITH FURRING - INSIDE CORNER
SCALE: 1 1/2" = 1'-0"

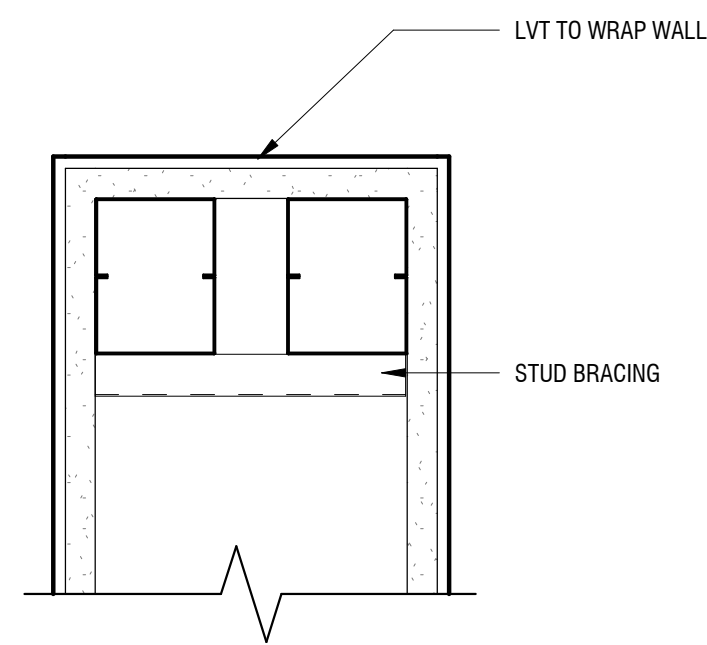
4 NICHIIHA PLAN DETAILS
SCALE: 1 1/2" = 1'-0"



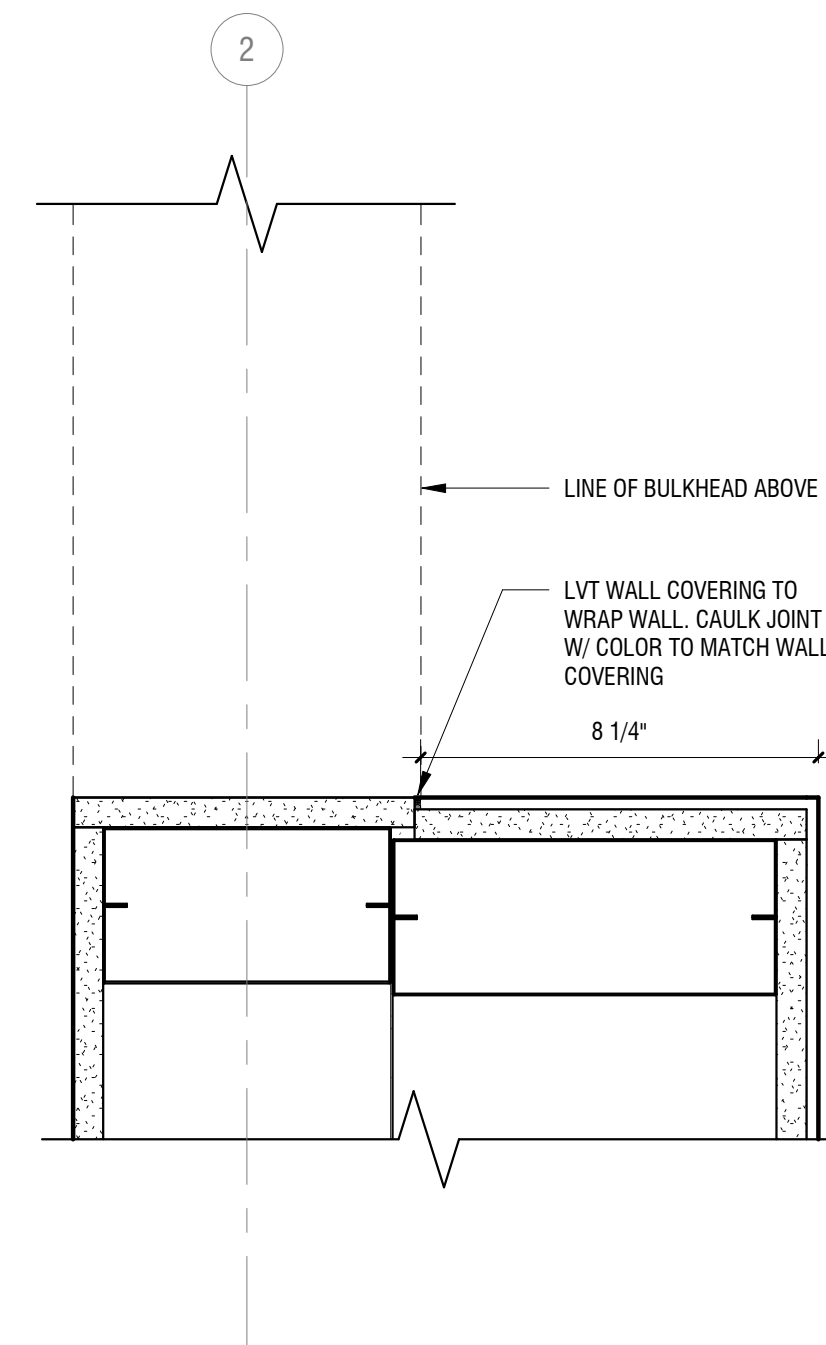
2 PLAN DETAIL @ WINDOW RECESS
SCALE: 1 1/2" = 1'-0"



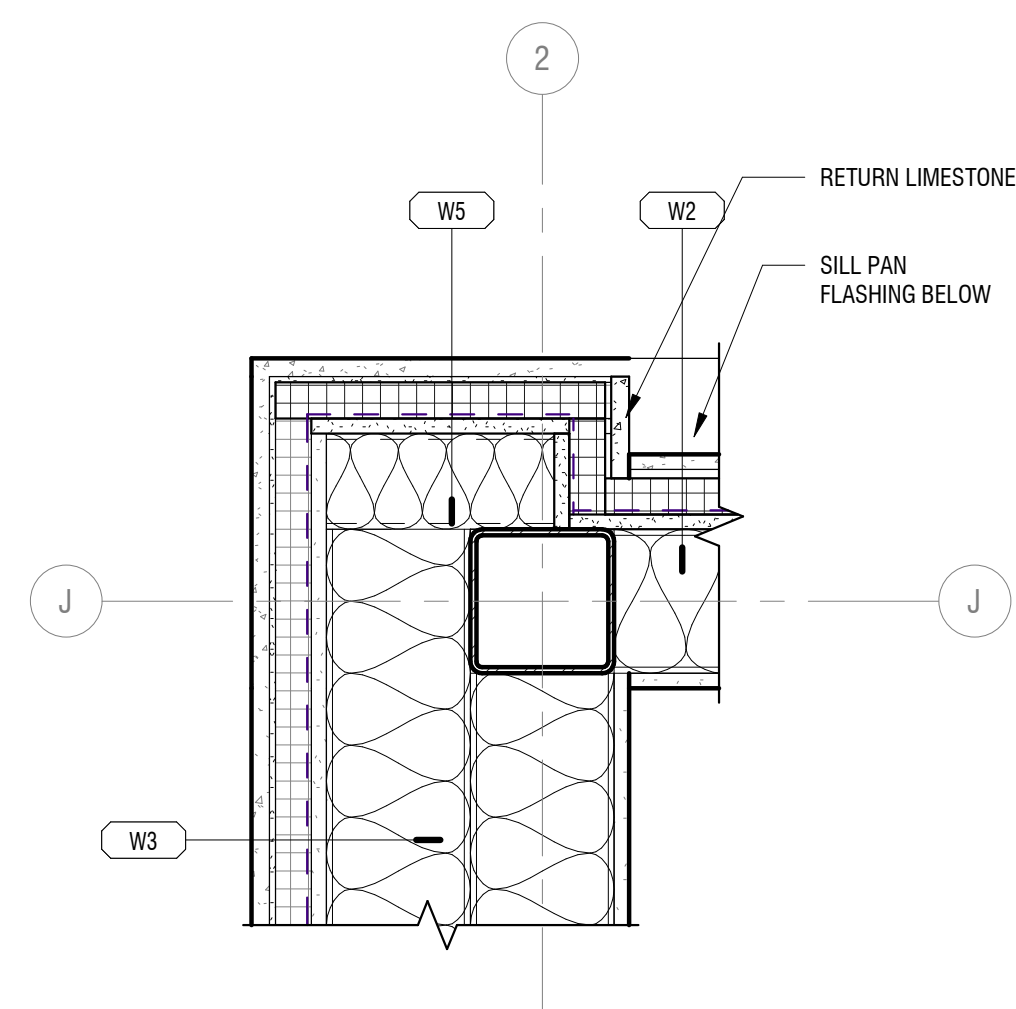
7 PLAN DETAIL @ INTERIOR STOREFRONT CORNER
SCALE: 1 1/2" = 1'-0"



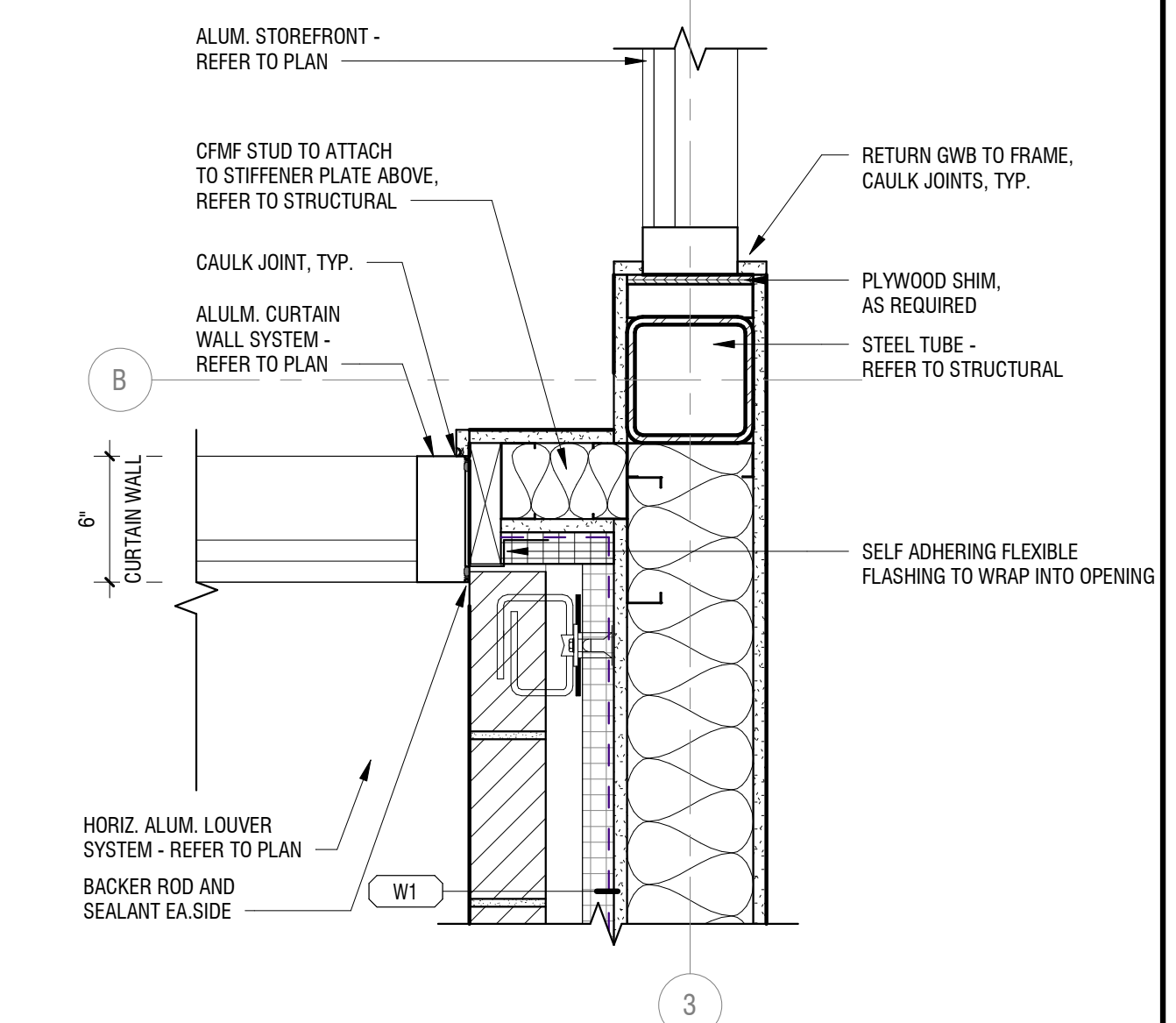
6 PLAN DETAIL @ TELLER WALL
SCALE: 3" = 1'-0"



5 PLAN DETAIL @ TELLER WALL
SCALE: 3" = 1'-0"



3 PLAN DETAIL @ EXTERIOR WING WALL
SCALE: 1 1/2" = 1'-0"



1 PLAN DETAIL @ LOBBY STOREFRONT AND BRICK
SCALE: 1 1/2" = 1'-0"



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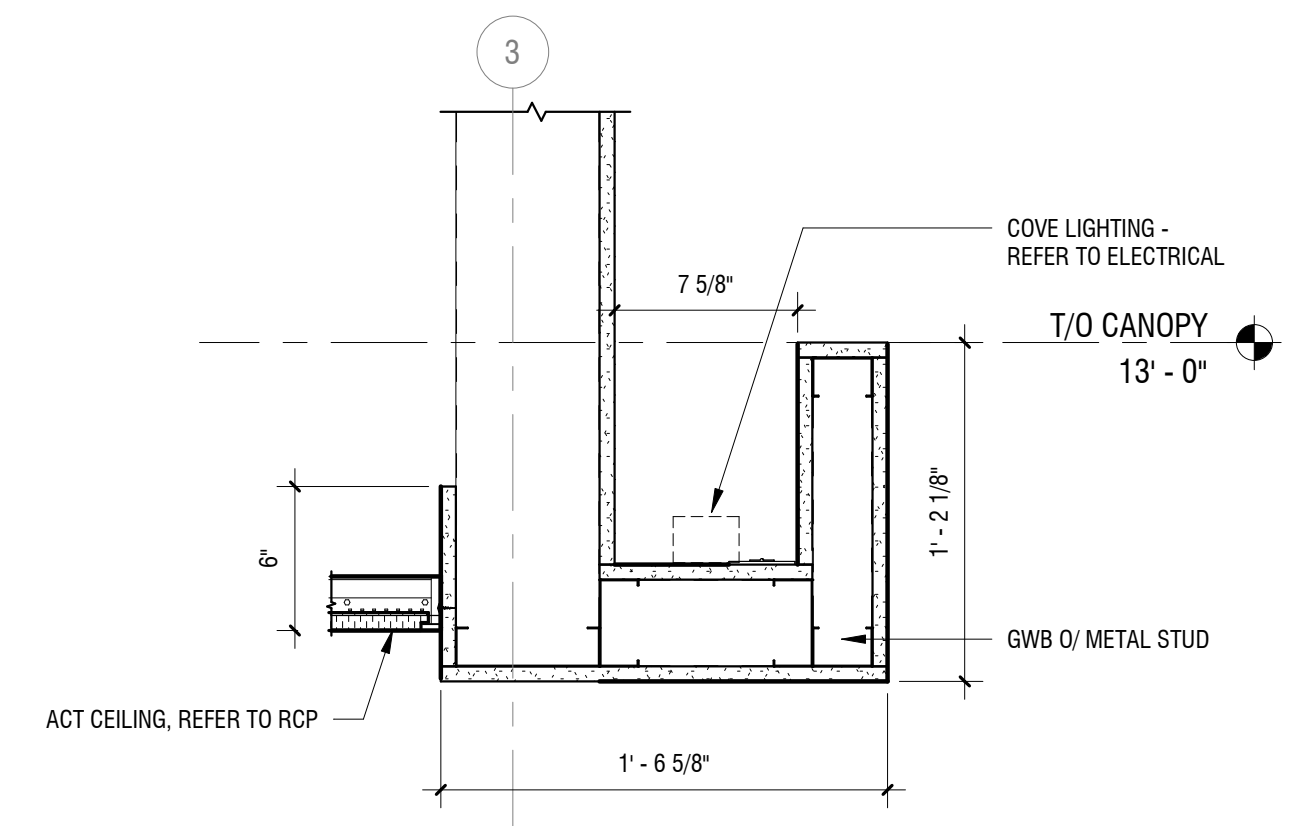
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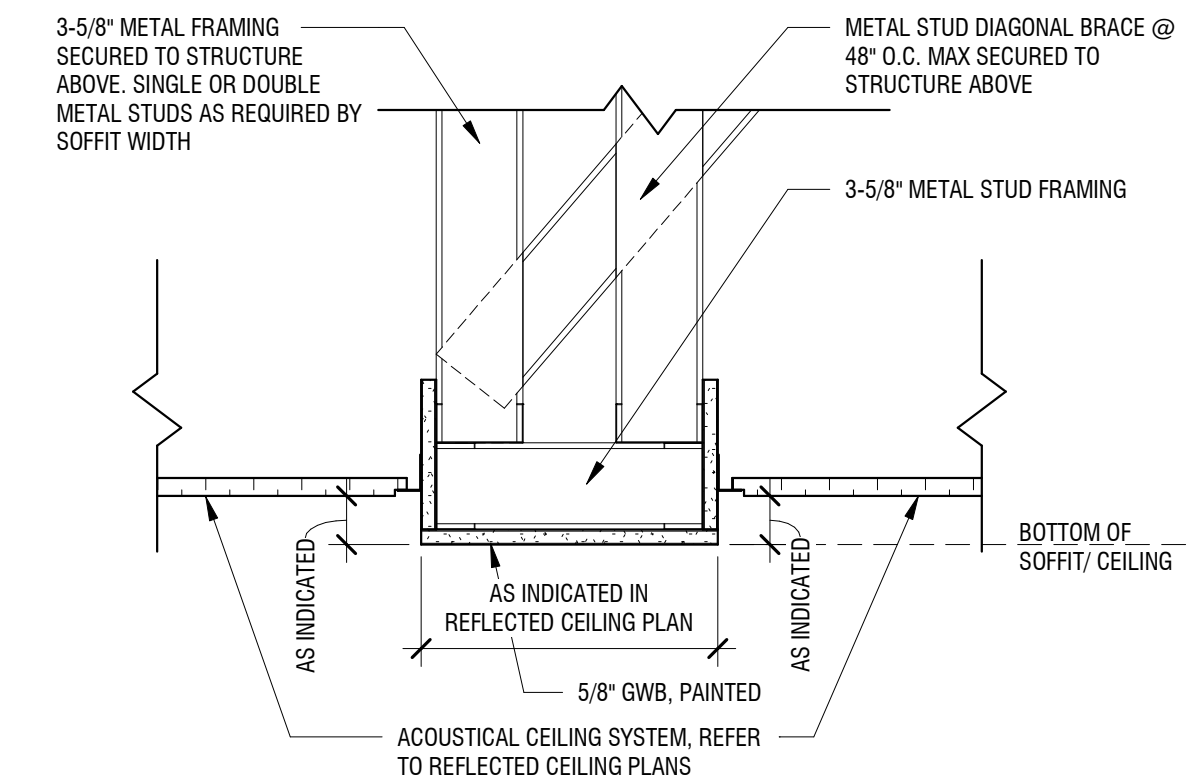
SECTION AND CEILING DETAILS

DRAWING NUMBER:

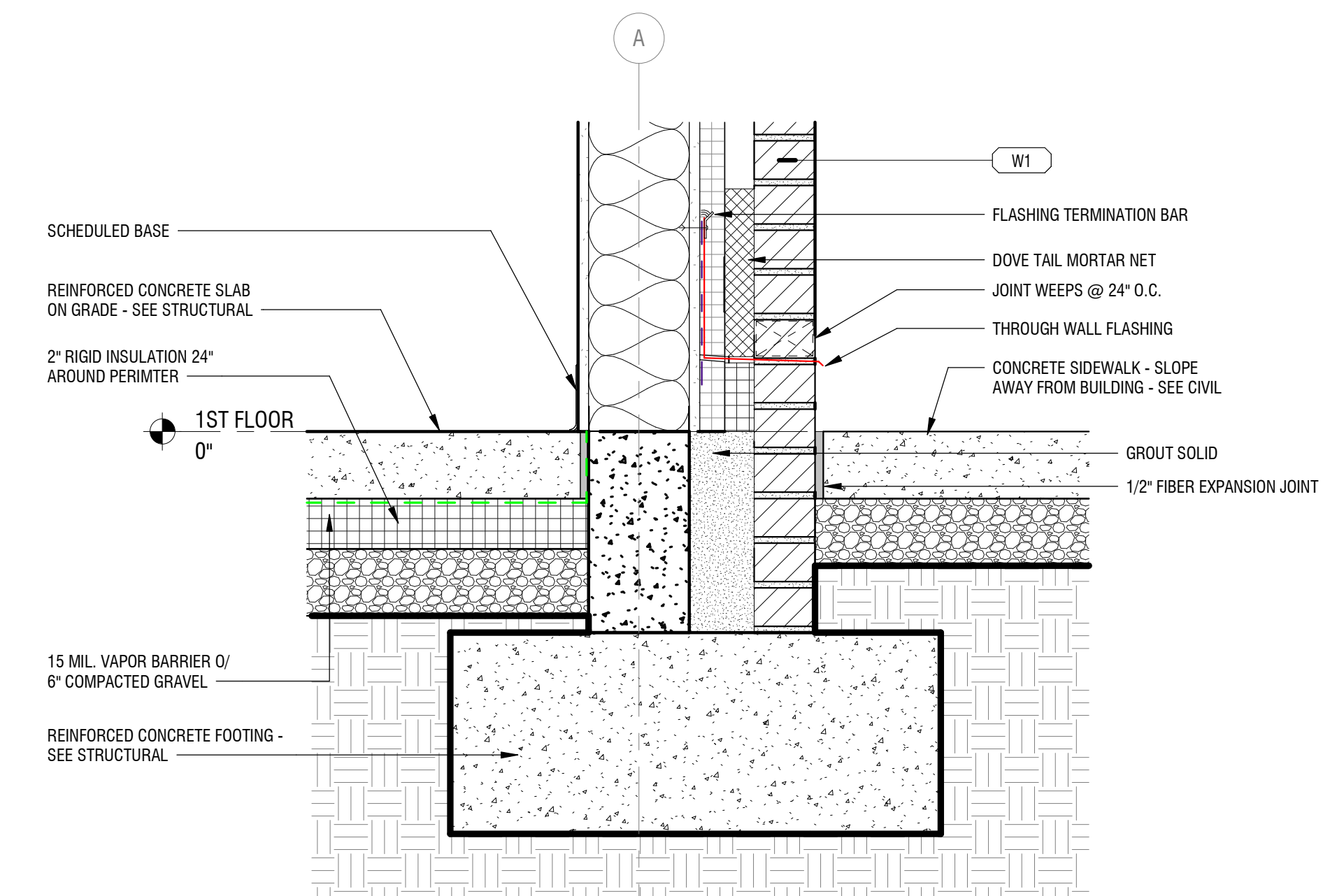
A502



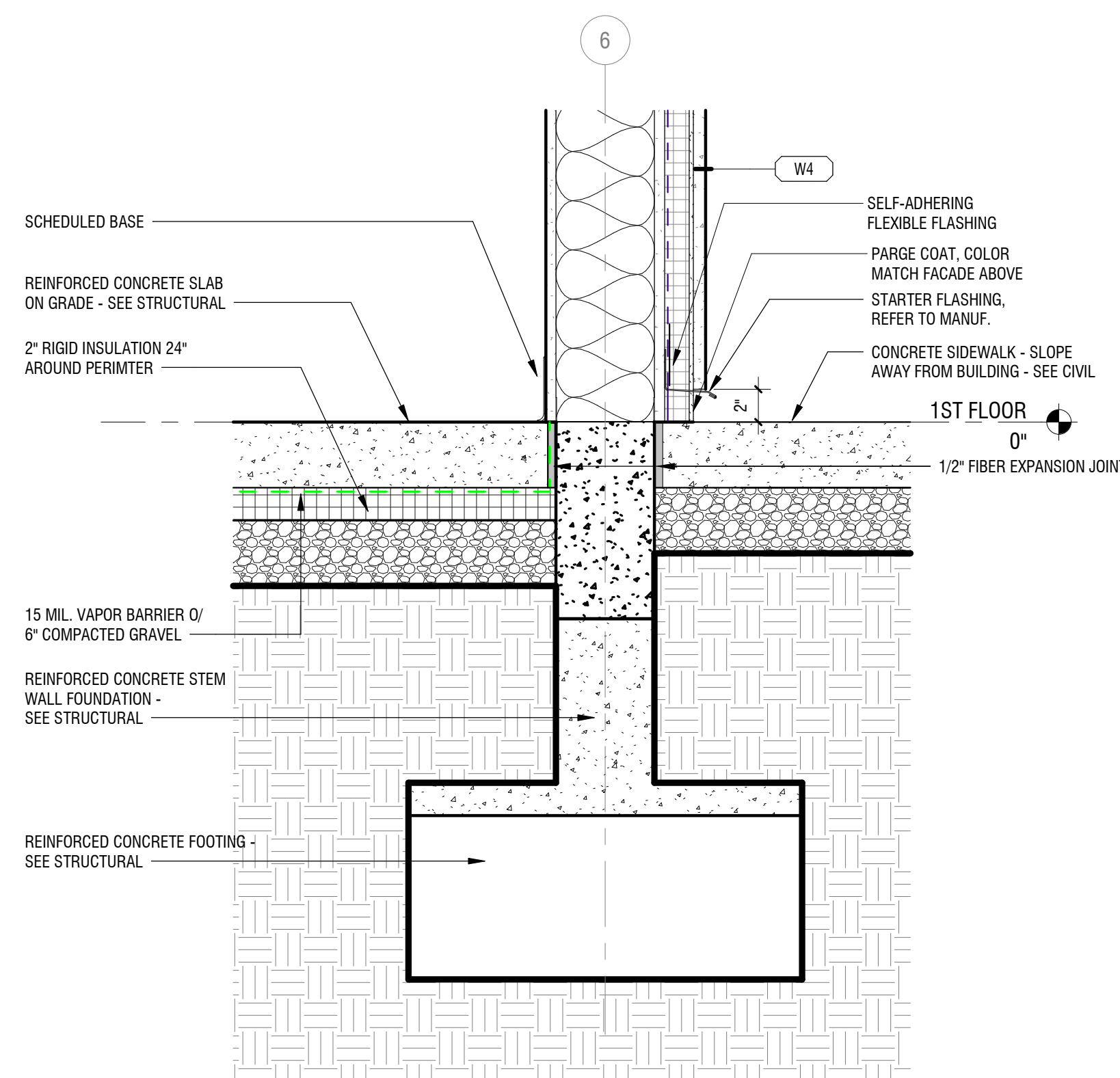
7 CEILING DETAIL @ COVE LIGHTING SOFFIT
A502 SCALE: 1 1/2" = 1'-0"



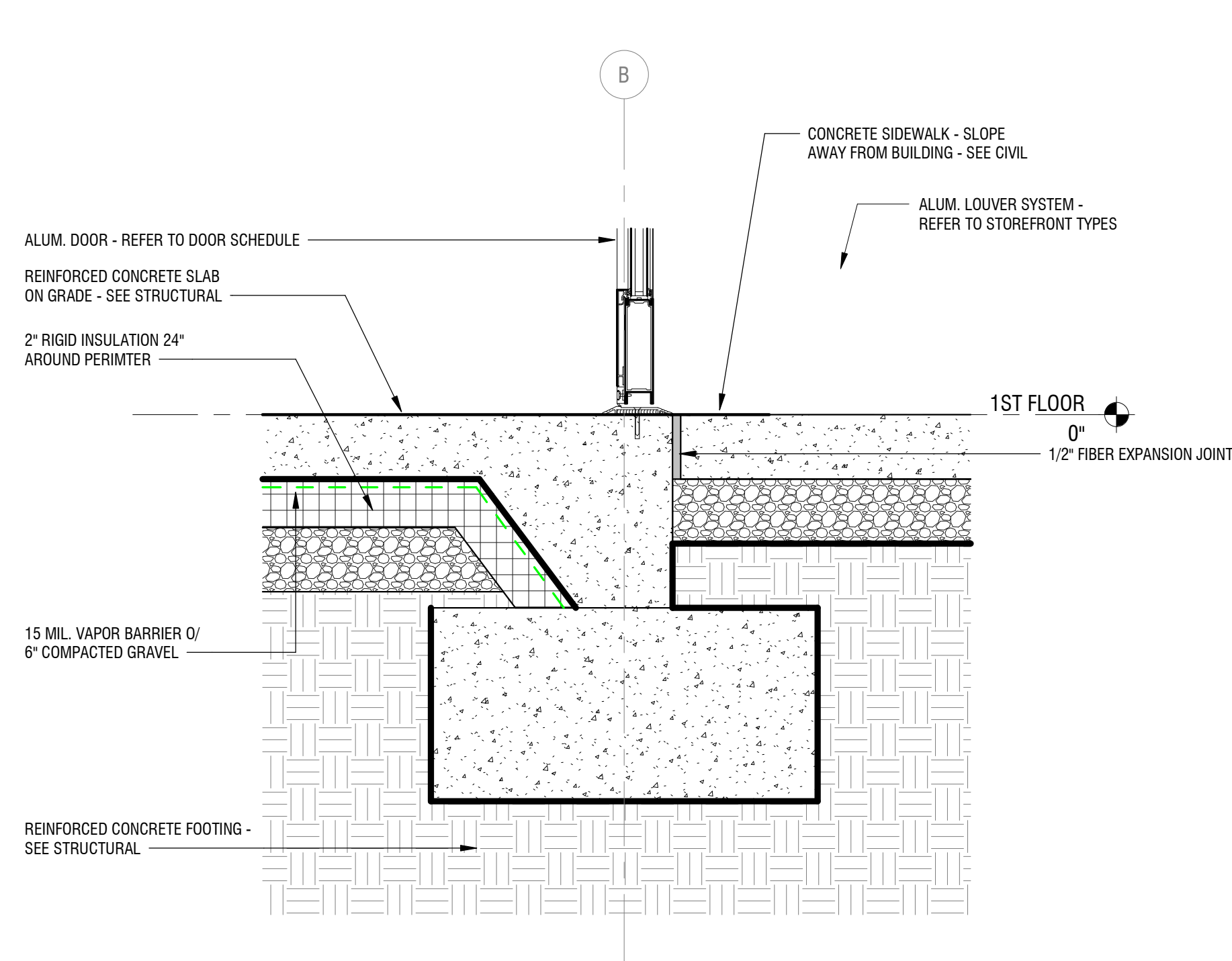
5 BULKHEAD DETAIL @ ACT
A502 SCALE: 1 1/2" = 1'-0"



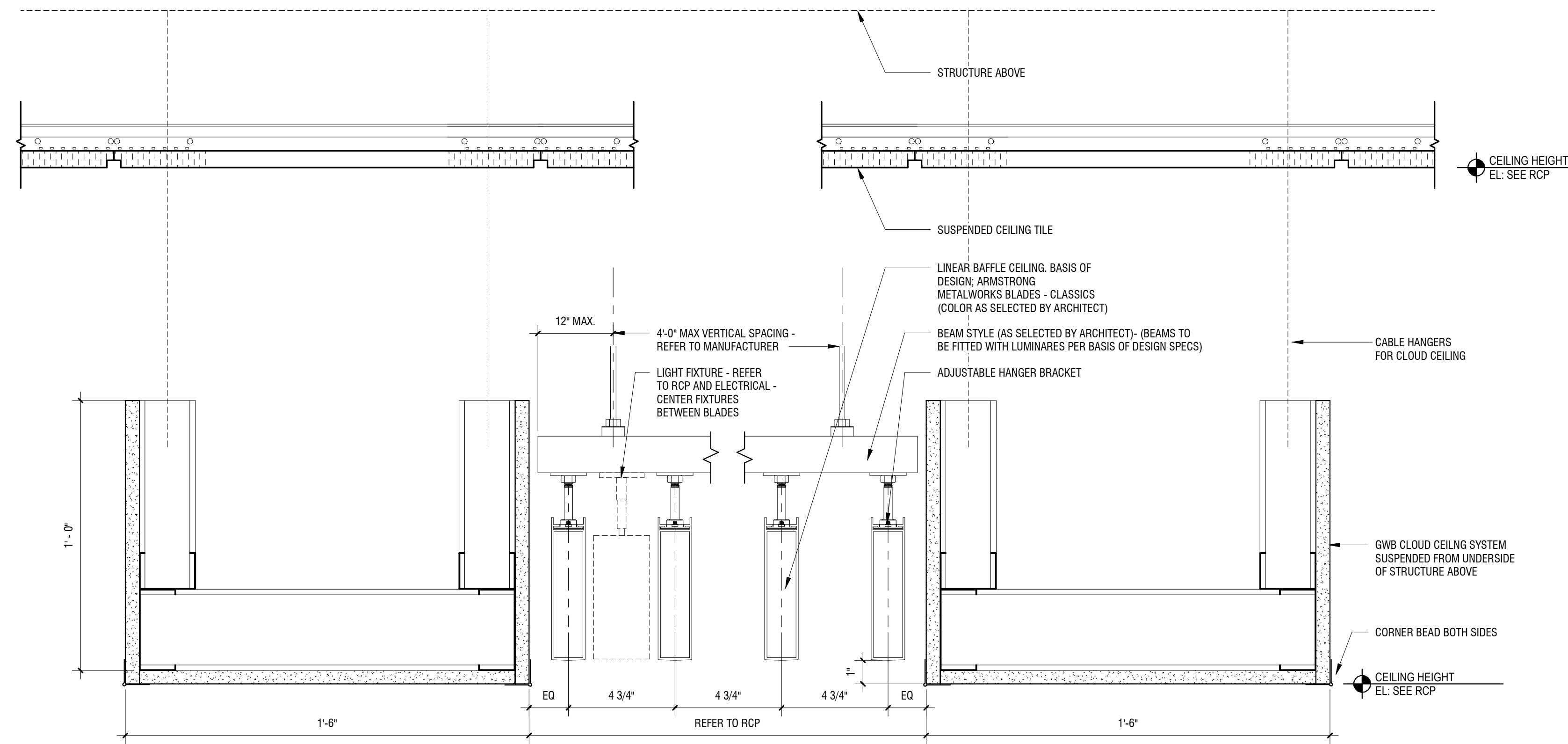
1 TYPICAL FOUNDATION DETAIL @ BRICK
A502 SCALE: 1 1/2" = 1'-0"



3 FOUNDATION DETAIL @ THIN MASONRY
A502 SCALE: 1 1/2" = 1'-0"



4 TYPICAL FOUNDATION DETAIL @ STOREFRONT
A502 SCALE: 1 1/2" = 1'-0"



6 CLOUD DETAIL - ACT & GYP
A502 SCALE: 3" = 1'-0"



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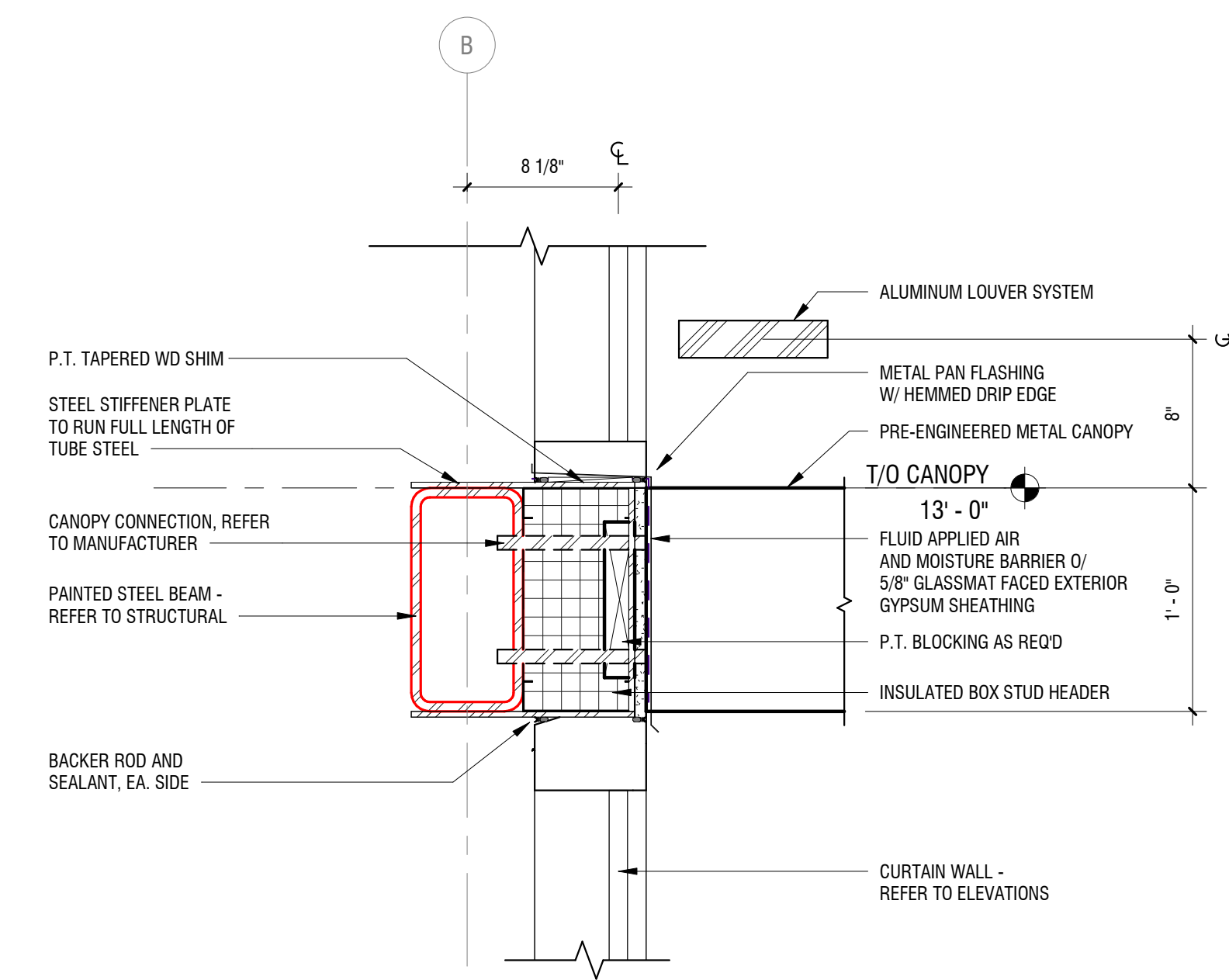
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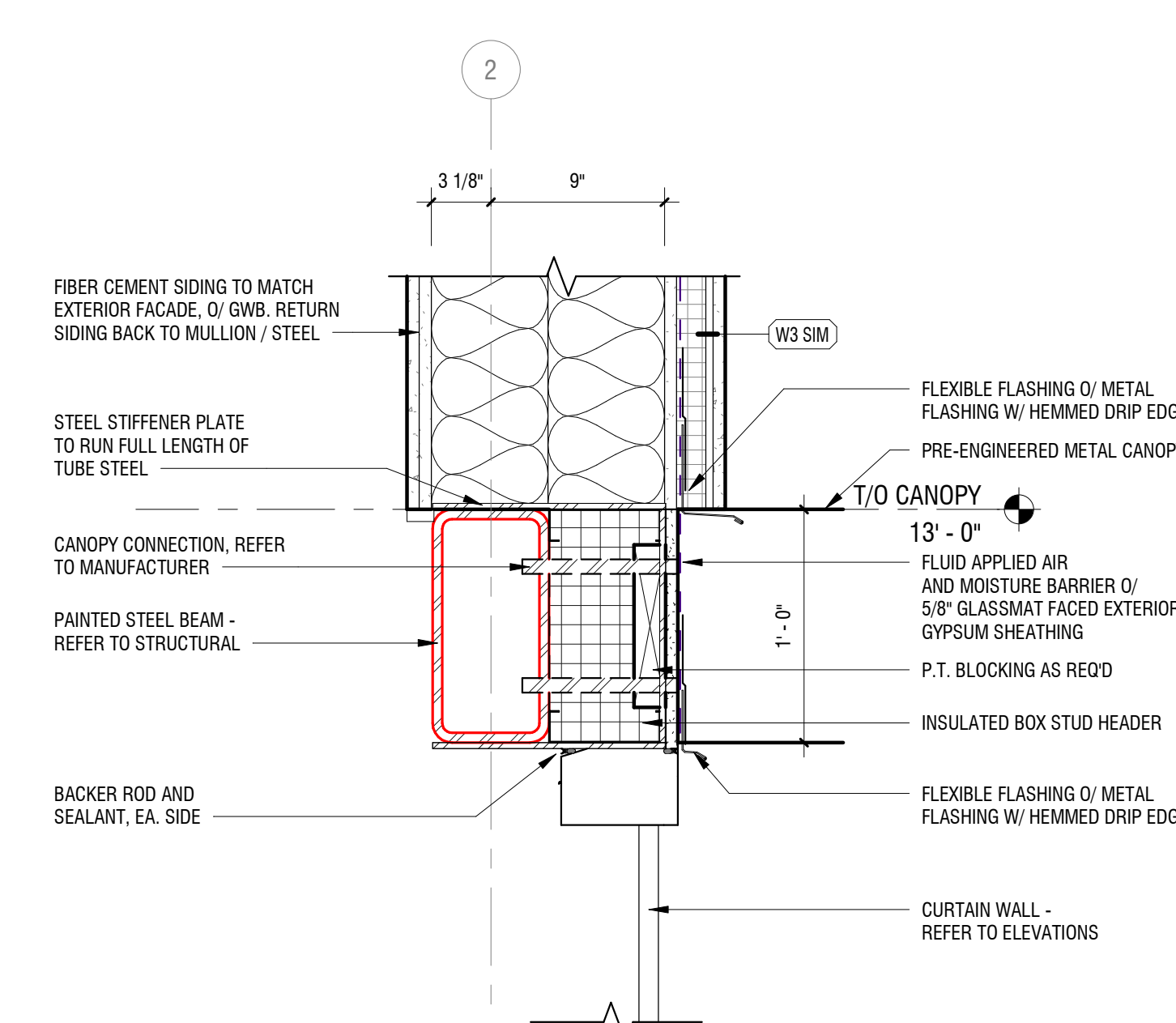
PARAPET AND ROOF DETAILS

DRAWING NUMBER:

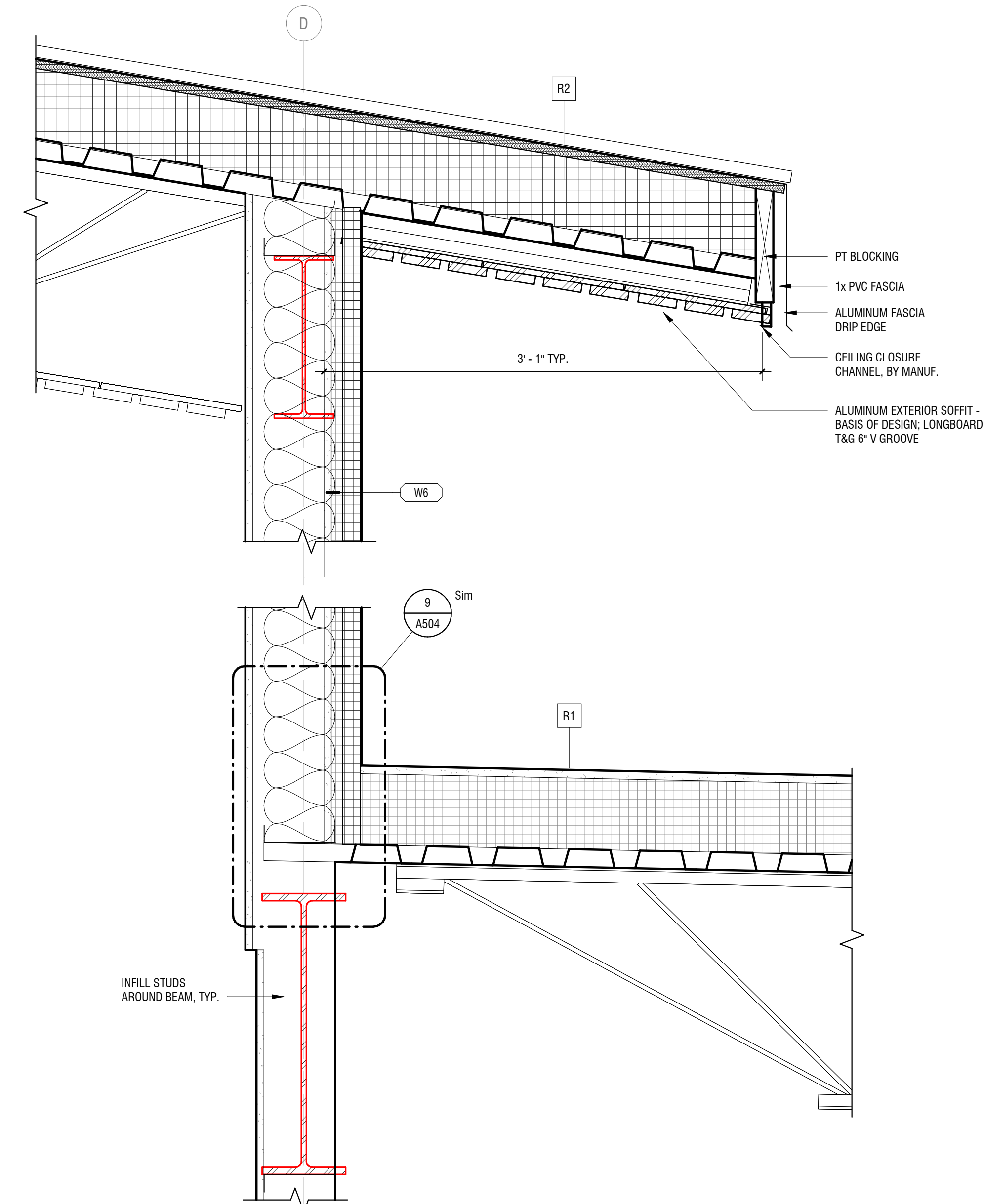
A503



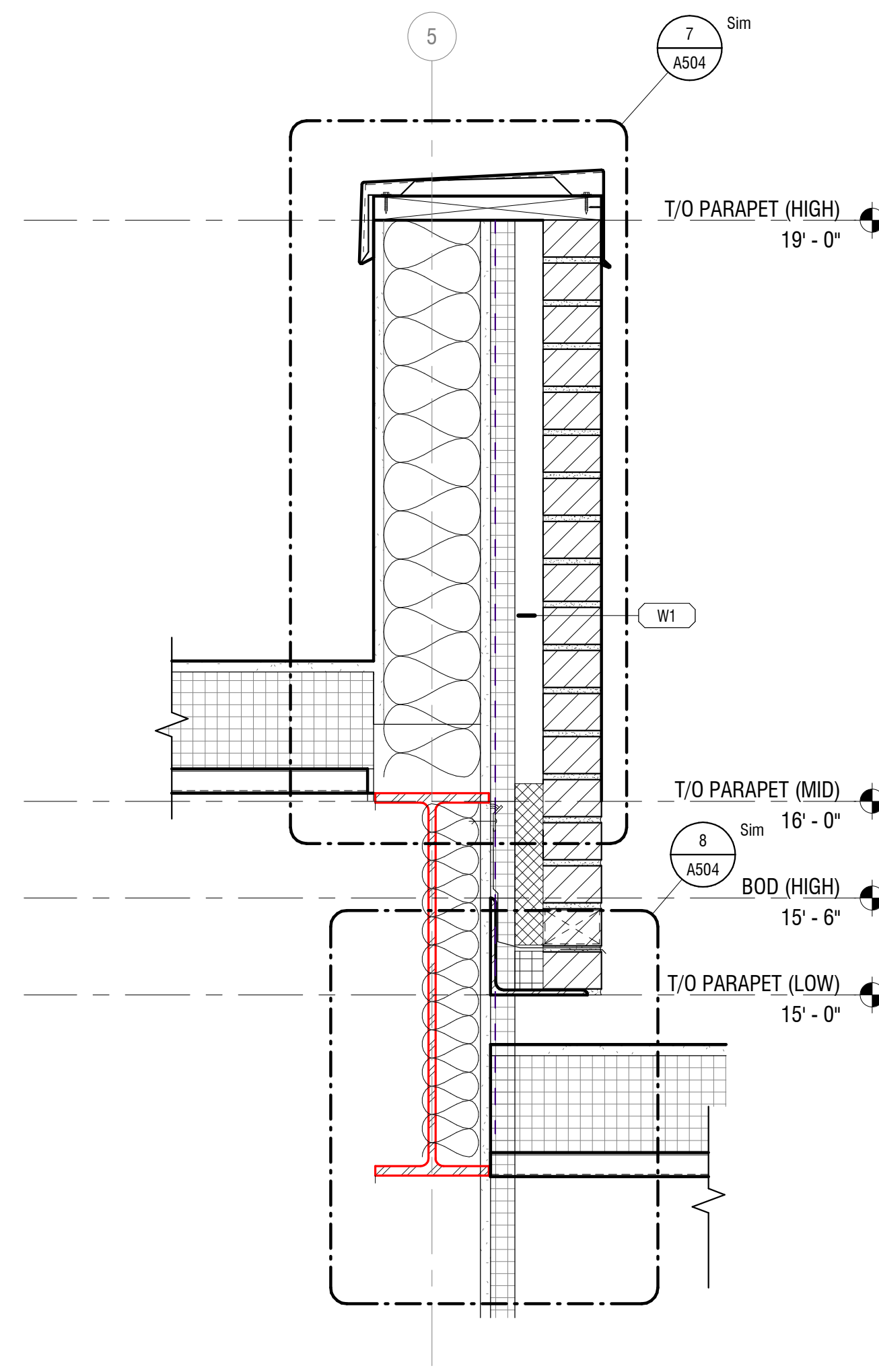
7 SECTION DETAIL @ CANOPY AND CURTAIN WALL
A503 SCALE: 1 1/2" = 1'-0"



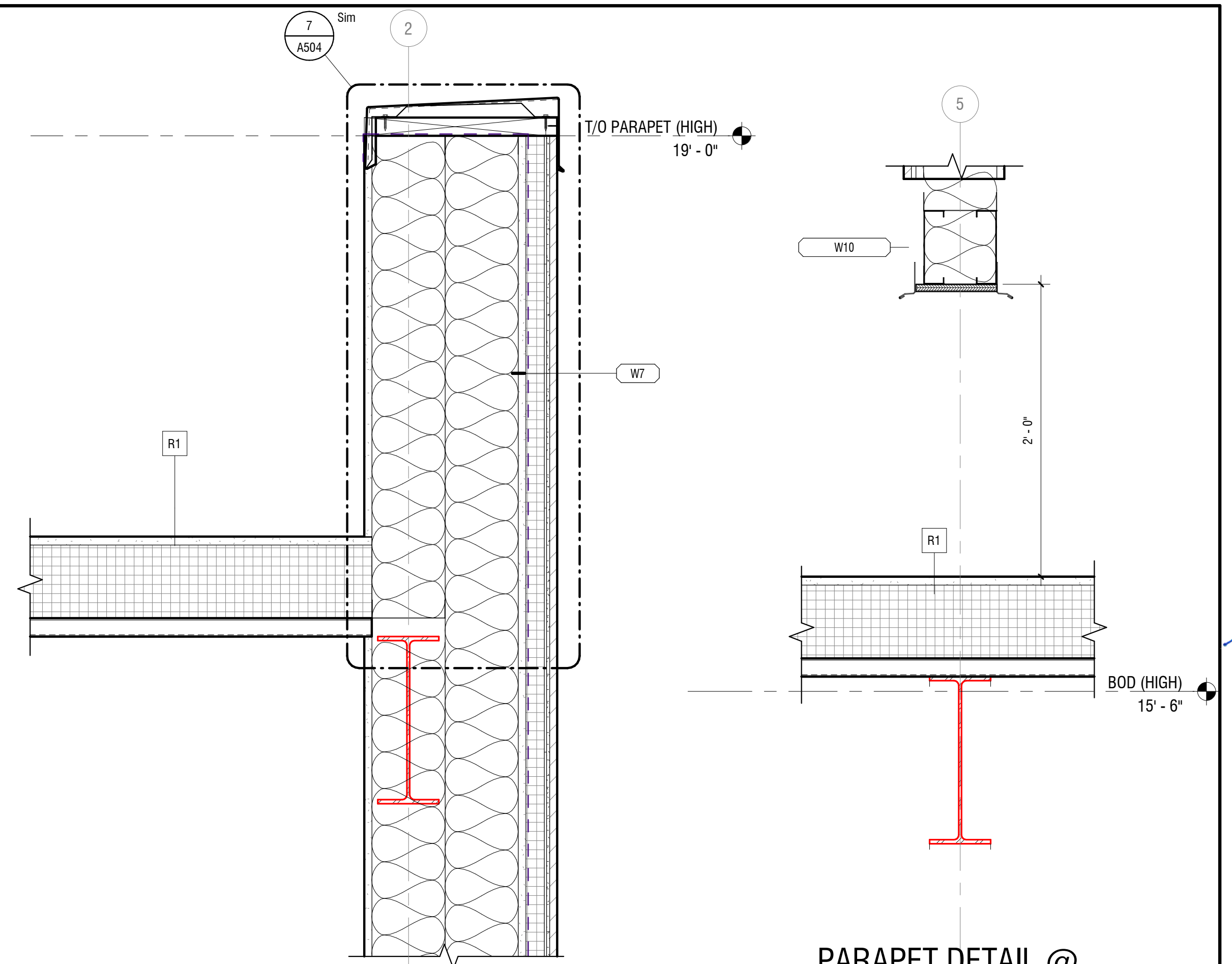
6 SECTION DETAIL @ CANOPY AND SIGNAGE WALL
A503 SCALE: 1 1/2" = 1'-0"



3 METAL ROOF EAVE DETAIL
A503 SCALE: 1 1/2" = 1'-0"

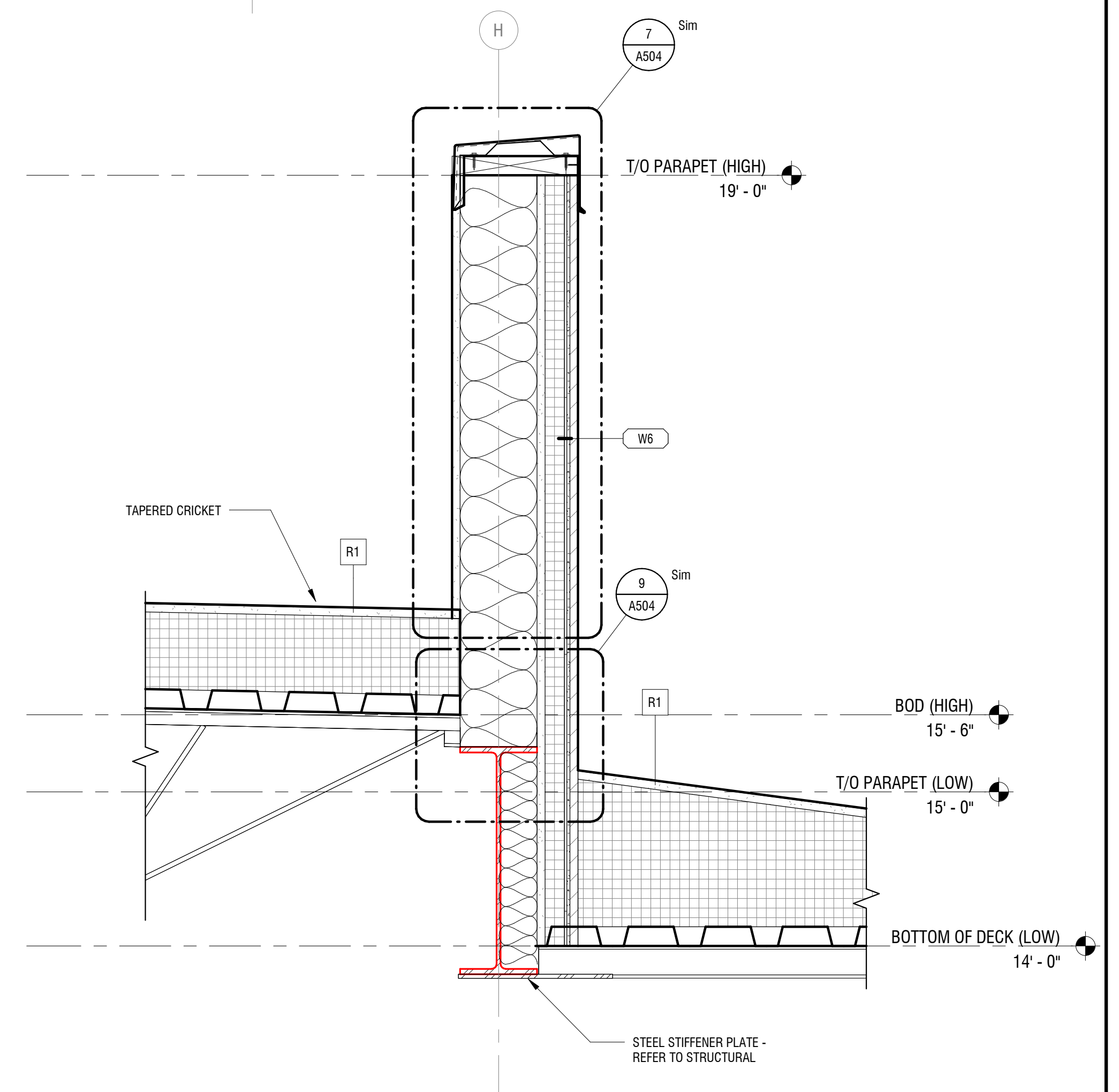


2 PARAPET DETAIL
A503 SCALE: 1 1/2" = 1'-0"



5 PARAPET DETAIL
A503 SCALE: 1 1/2" = 1'-0"

4 PARAPET DETAIL @ HVAC ENCLOSURE
A503 SCALE: 1 1/2" = 1'-0"



1 PARAPET DETAIL
A503 SCALE: 1 1/2" = 1'-0"

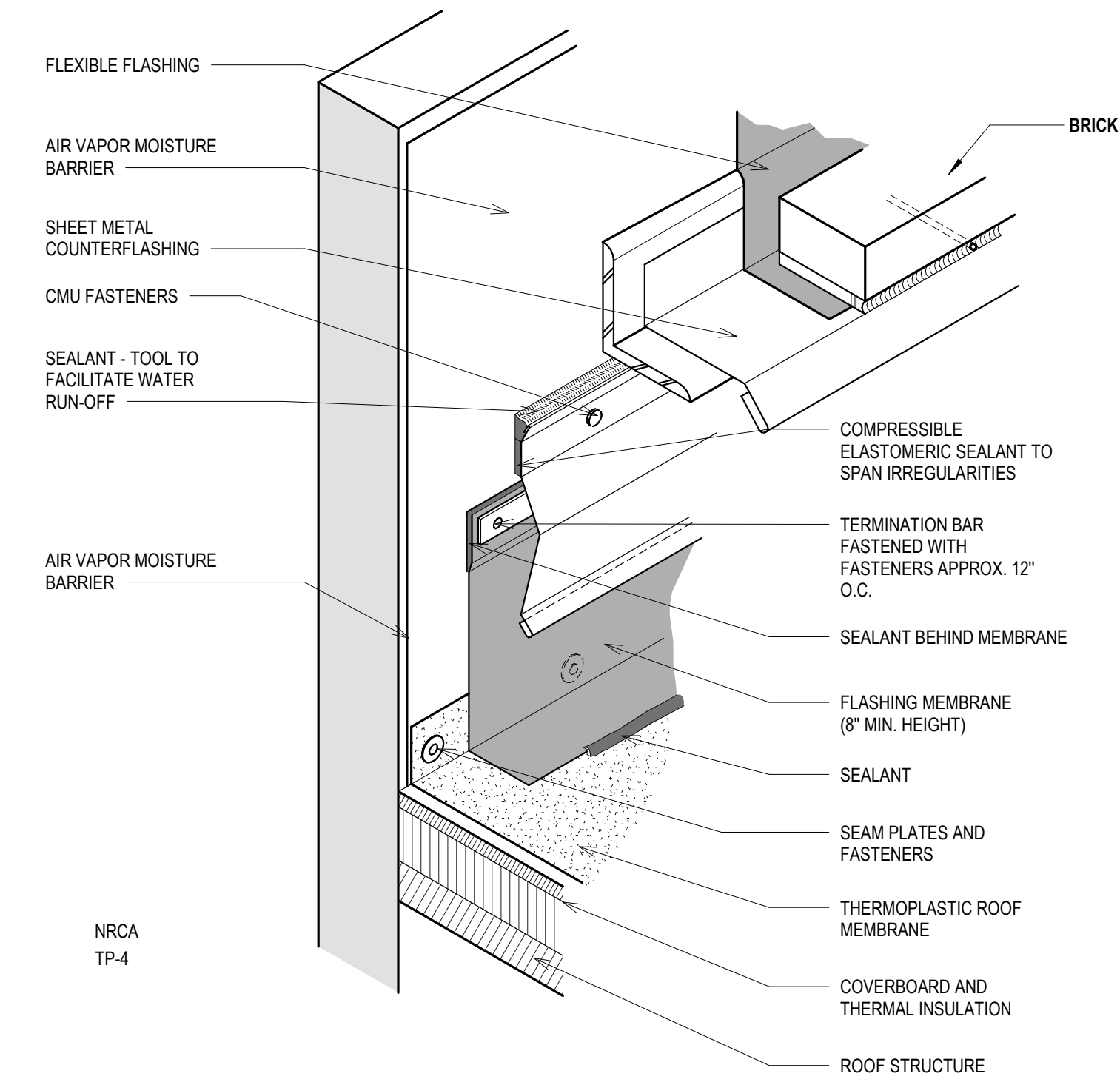


NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		BAW
REVIEWED BY:		GGA
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NUMBER:		

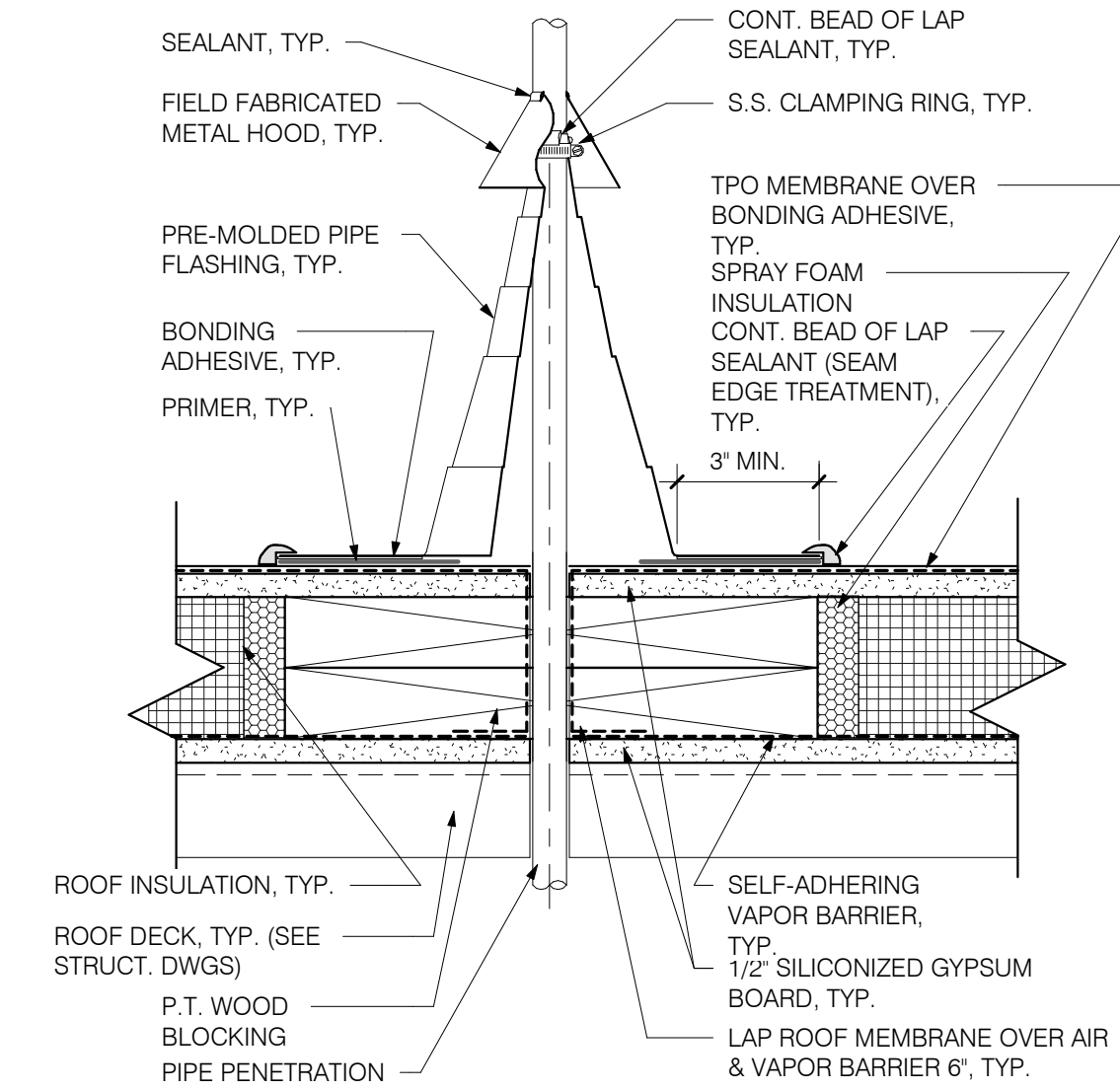
ROOF DETAILS

DRAWING NUMBER:

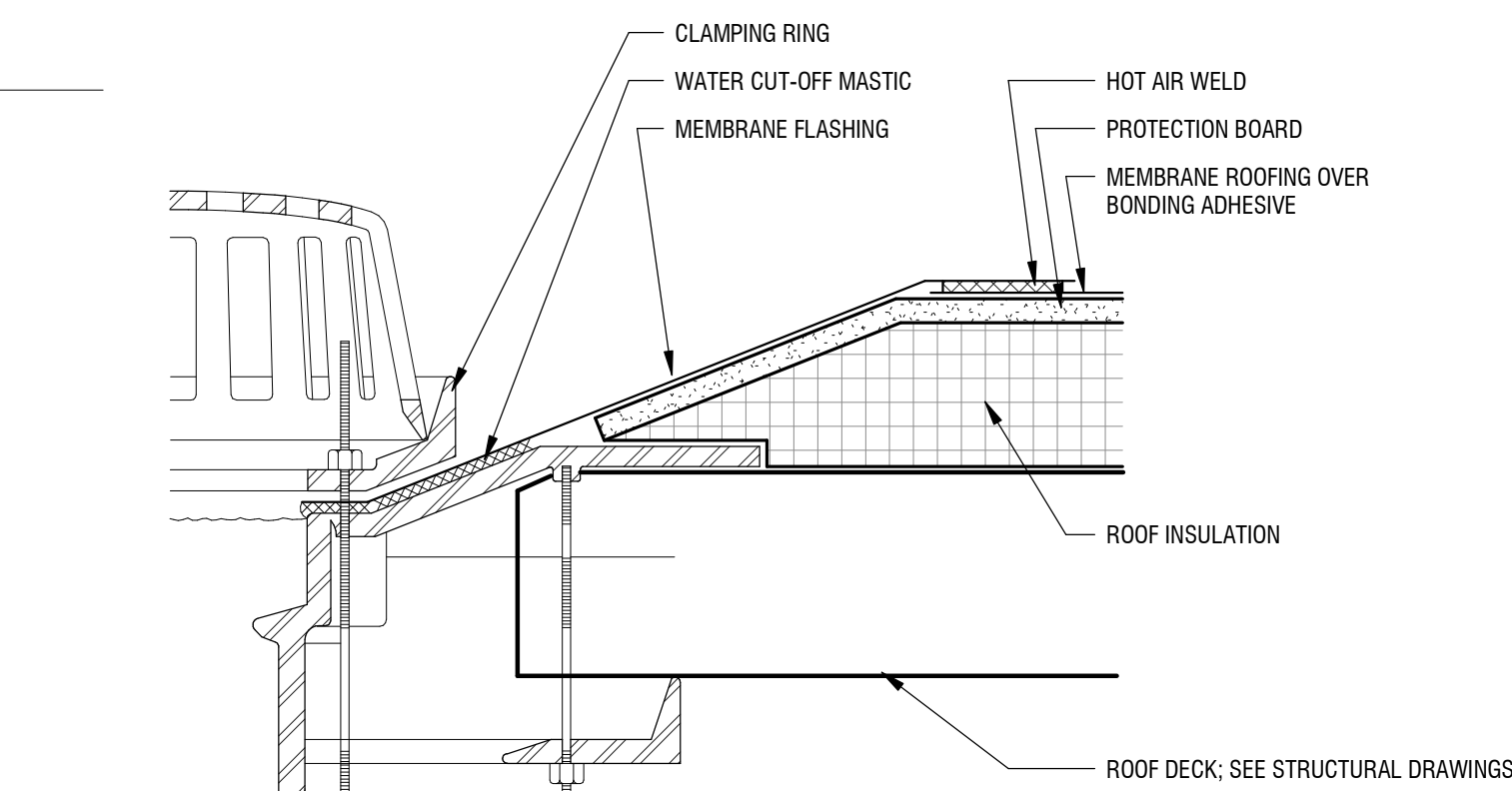
A504



8 COUNTERFLASHING AT BRICK
SCALE: NTS

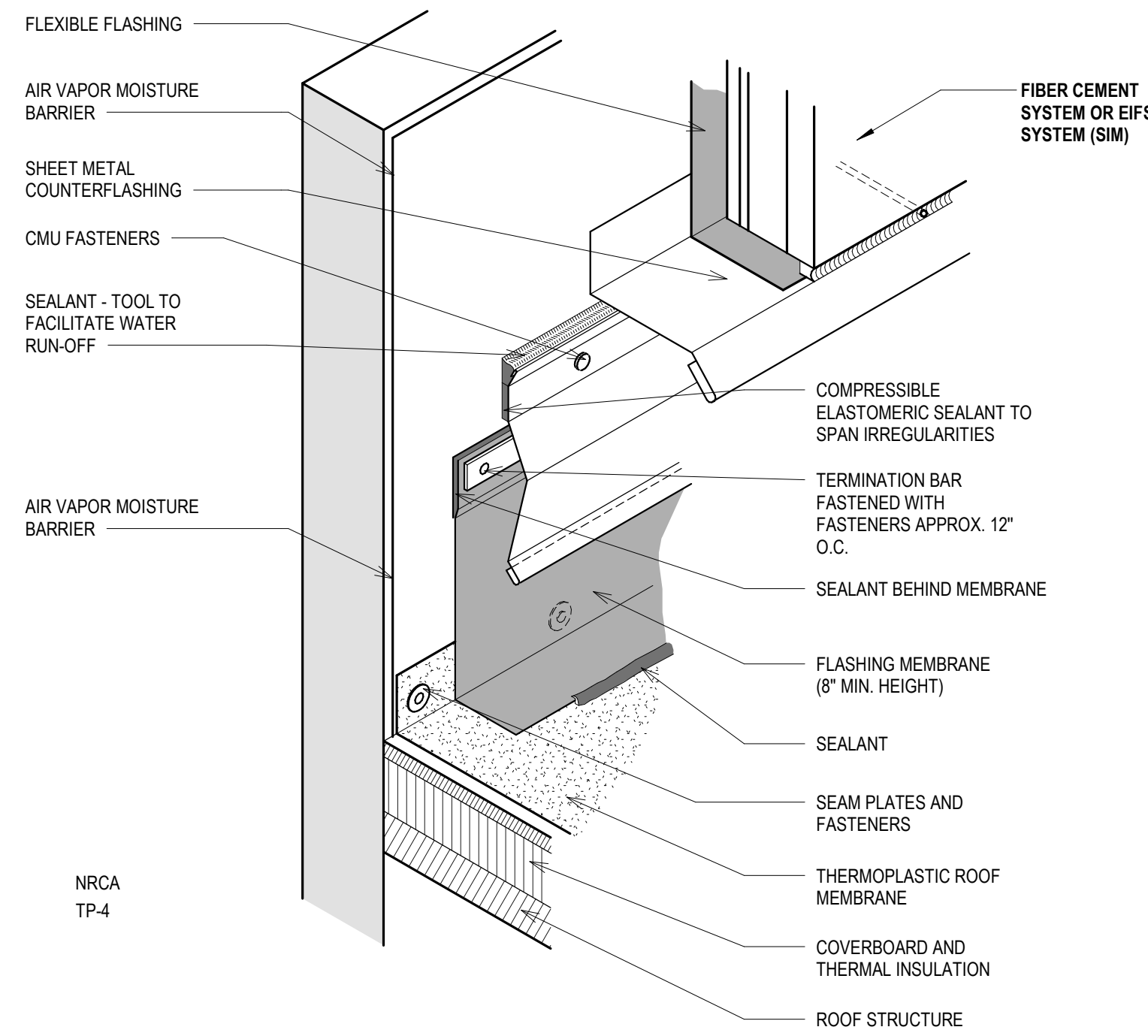


4 TPO ROOF PIPE BOOT
SCALE: 3" = 1'-0"

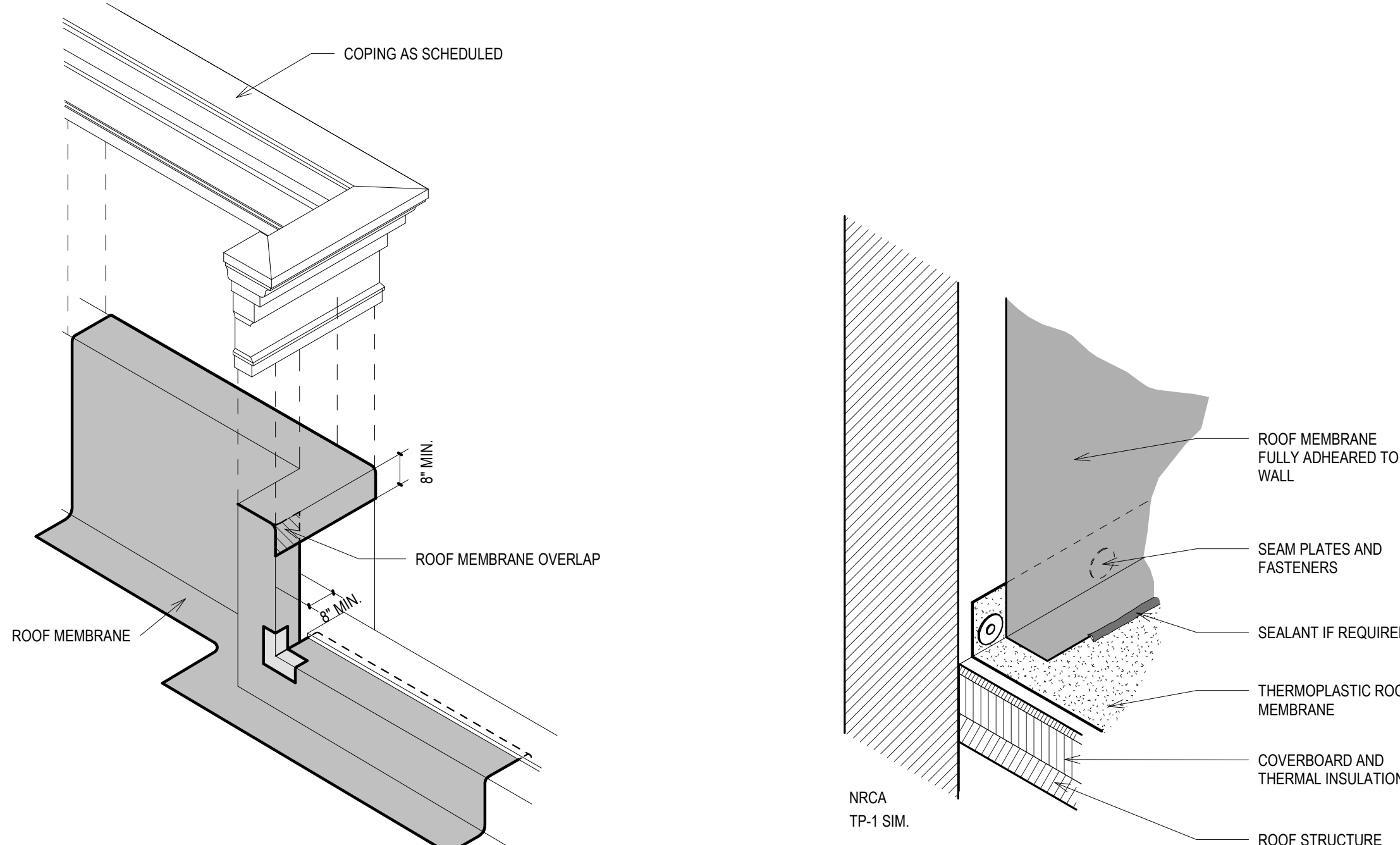


- NOTES:
1. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
 2. CUT ROOF MEMBRANE SO IT EXTENDS MIN. 1/2" FROM ATTACHMENT POINTS OF DRAIN CLAMPING RING.
 3. HOLE IN MEMBRANE MUST EXCEED DRAIN PIPE SIZE.
 4. INSULATION TAPER SHALL NOT BE STEEPER THAN 6 INCHES (VERTICAL) IN 12 INCHES (HORIZONTAL).
 5. REFER TO STRUCTURAL DRAWINGS FOR ROOF DECK TYPE AND SIZE.
 6. OVERFLOW DRAIN SHALL HAVE BUILT-IN WEIR WHICH PREVENTS RAINWATER FROM IMMEDIATELY ENTERING SYSTEM. WEIR ELEVATION TO BE MAINTAINED AT 4" ABOVE SPILLWAY FOR PRIMARY ROOF DRAIN.

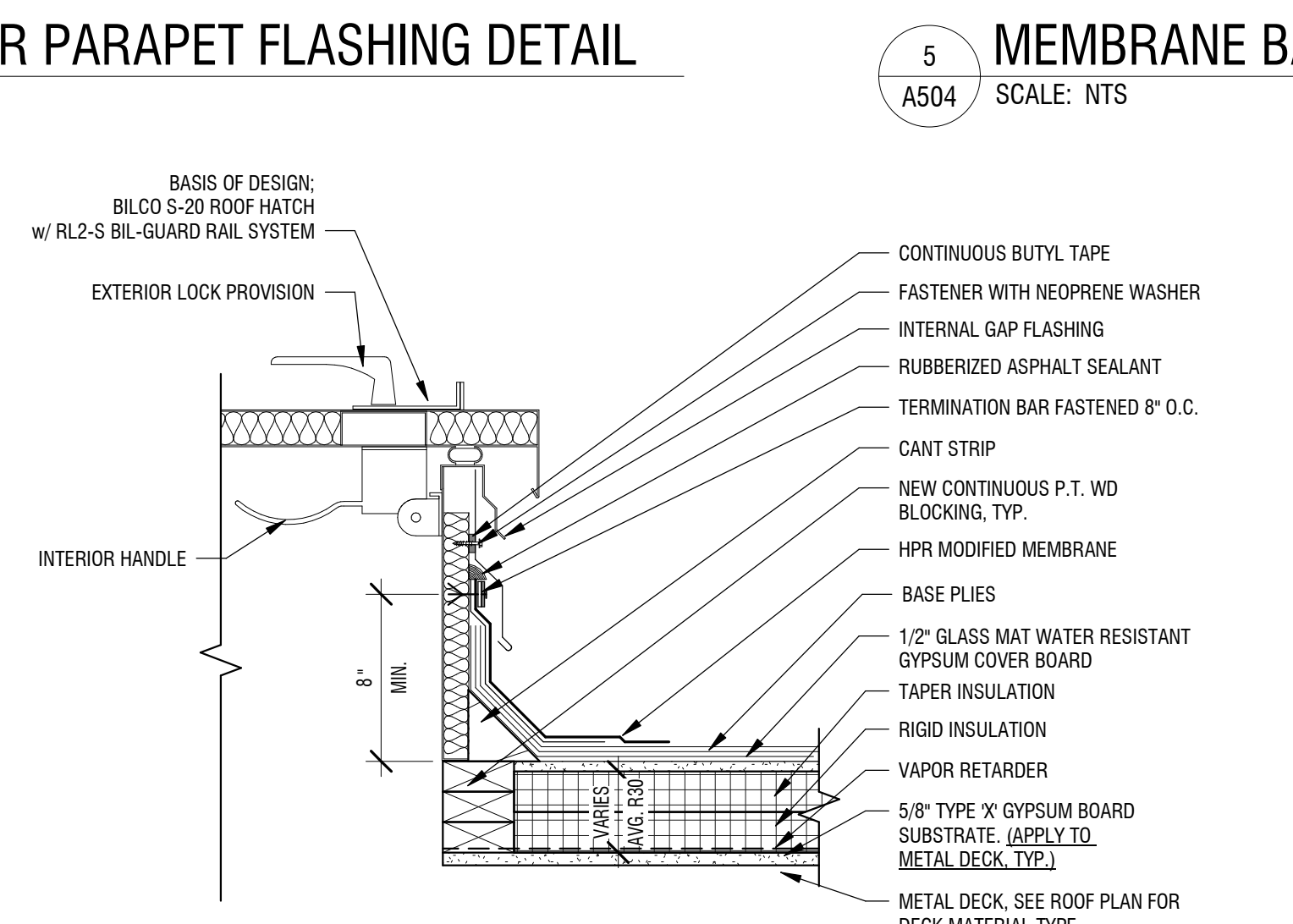
1 TYPICAL ROOF DRAIN - MEMBRANE ROOFING SYSTEM
SCALE: 3" = 1'-0"



9 COUNTERFLASHING AT FIBER CEMENT (EIFS SIM)
SCALE: NTS

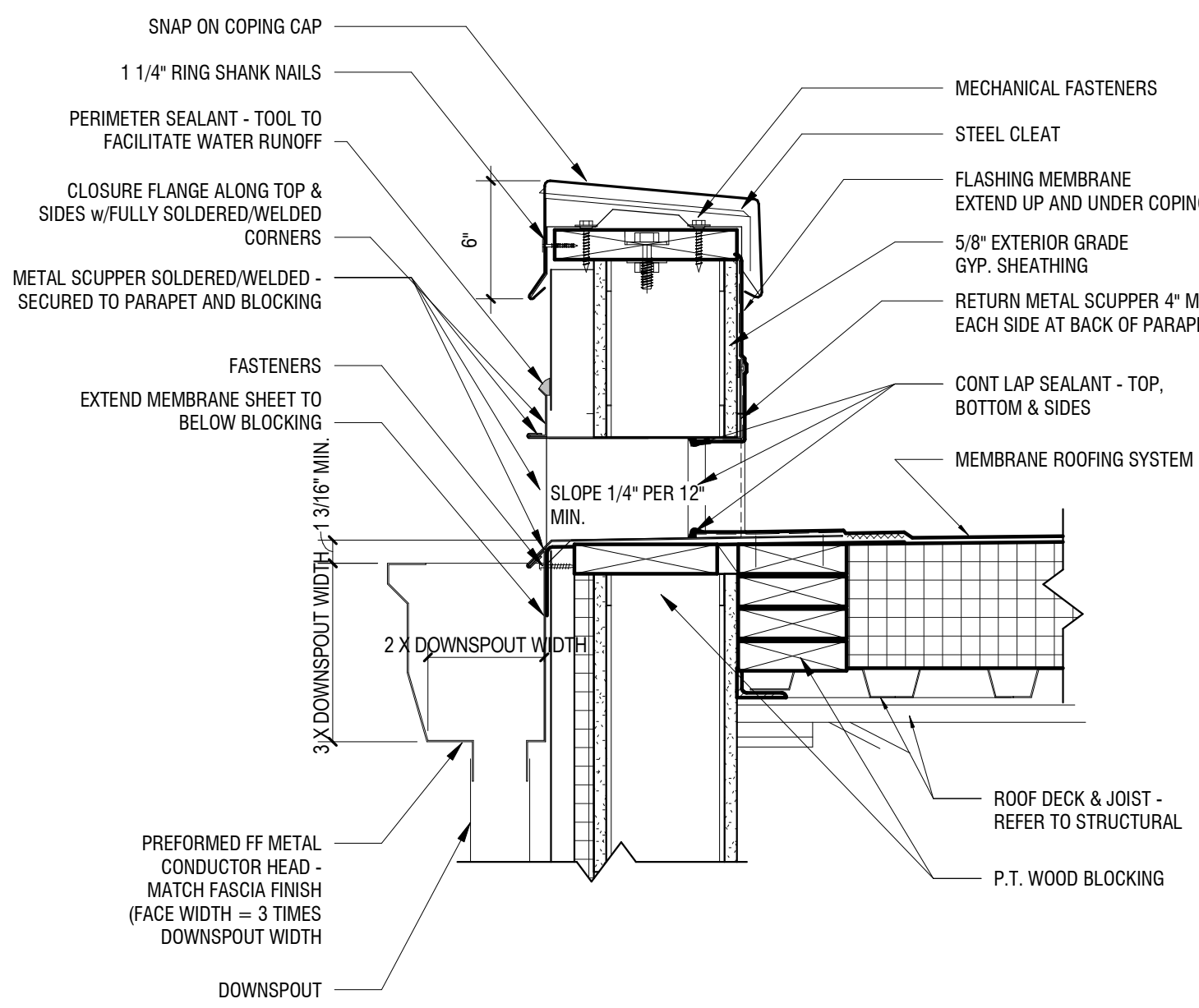


5 MEMBRANE BASE FLASHING
SCALE: NTS

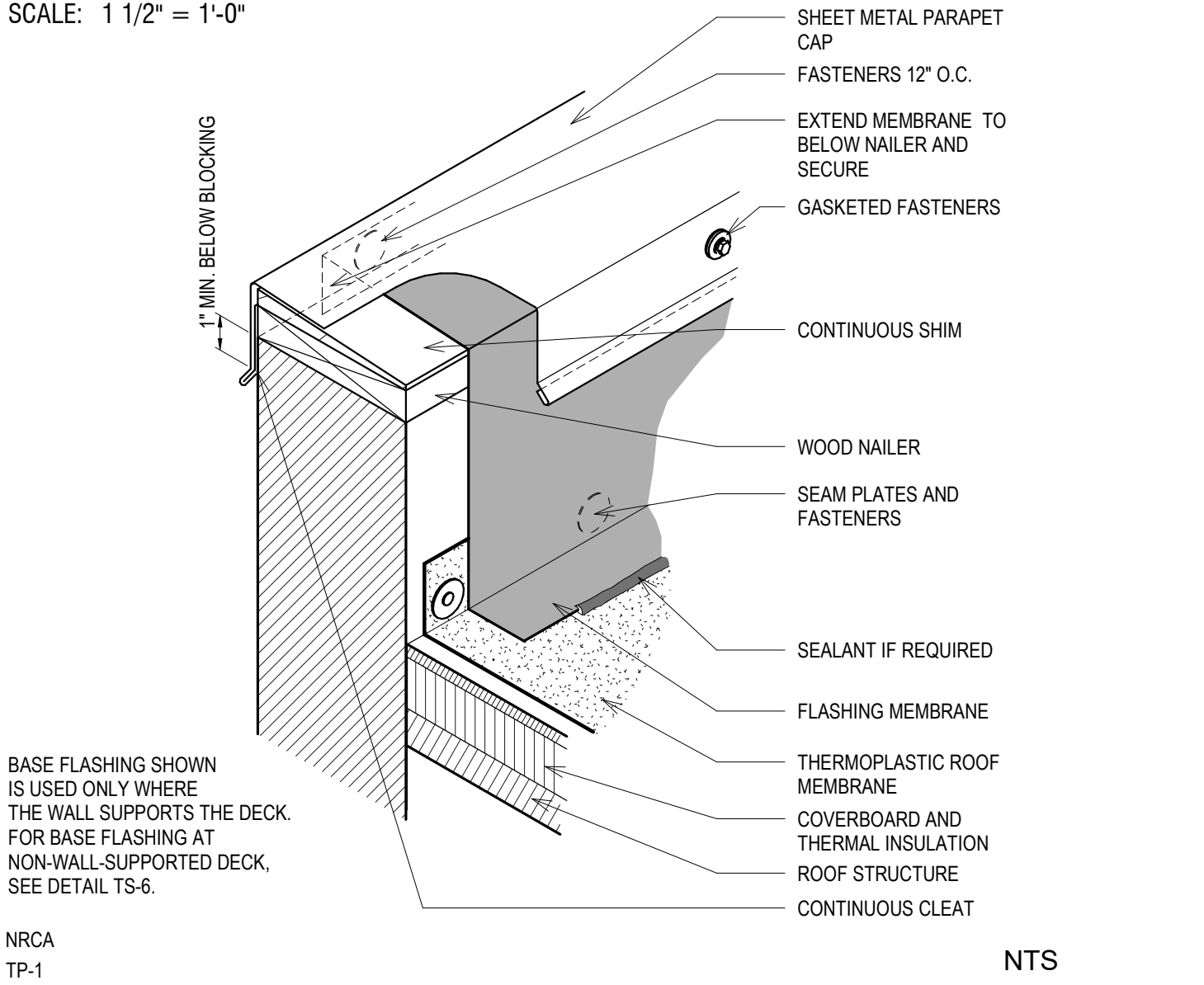


6 CORNER PARAPET FLASHING DETAIL
SCALE: NTS

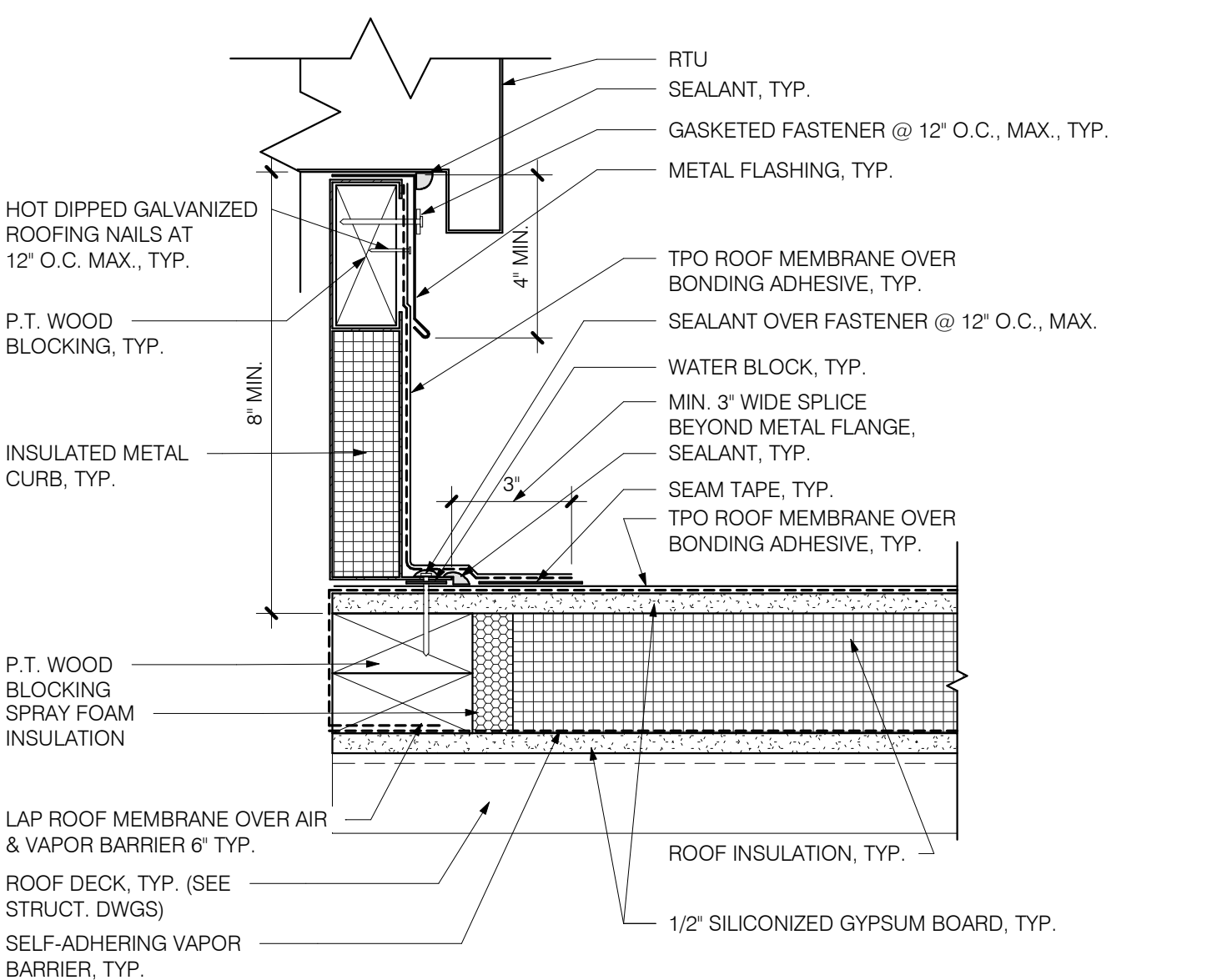
2 TYP ROOF HATCH DETAIL
SCALE: 1 1/2" = 1'-0"



10 TYPICAL THRU-WALL SCUPPER DETAIL W/ INTEGRAL OVERFLOW OUTLET
SCALE: 1 1/2" = 1'-0"



7 COPING AND BASE FLASHING
SCALE: NTS



3 TPO ROOF TOP UNIT/EQUIPMENT CURB
SCALE: 3" = 1'-0"

GENERAL DOOR NOTES AND GLAZING NOTES

NOTES

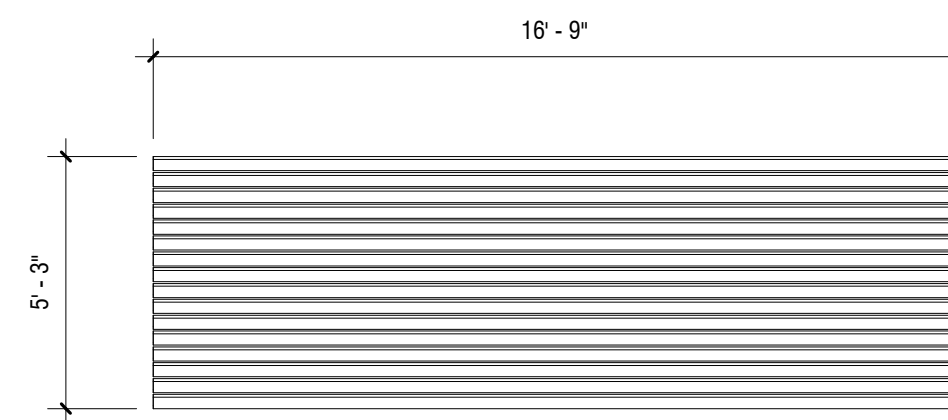
1. ALL LOCK SET HANDLES TO BE LEVEL TYPE AND MEET THE ADA REQUIREMENTS
2. ALL DOOR HARDWARE HEIGHT SHALL COMPLY WITH IBC 1008.1.3
3. ALL DOOR HARDWARE SHALL MEET IBC CHAPTERS 10 AND 11
4. SEALANTS TO MATCH ADJACENT SURFACE. TAPE ON STOREFRONT 1/4" FOR STRAIGHT LINE.
5. KEYING ALL LOCKS TO BE KEYED BY HARDWARE SUPPLIER. ORDER ALL LOCKS "0" BITTED. ALL CYLINDERS TO BE "1B" KEYWAY. COORDINATE FINAL KEYING WITH OWNER.
6. MANUFACTURER TO ADJUST OVERALL FRAME SIZES TO ACCOMMODATE PERIMETER SEALANT JOINT SIZE.

GLAZING LEGEND

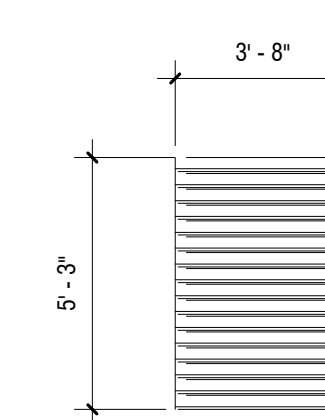
- GL-1 = 1" TEMPERED INSULATED LOW-E
 GL-2 = 1" ANNEALED INSULATED LOW-E
 GL-3 = 1/4" TEMPERED
 GL-4 = 1/4" ANNEALED
 GL-5 = 1" ANNEALED INSULATED LOW-E SPANDREL (COLOR MATCH TO CURTAIN WALL)

DOOR SCHEDULE

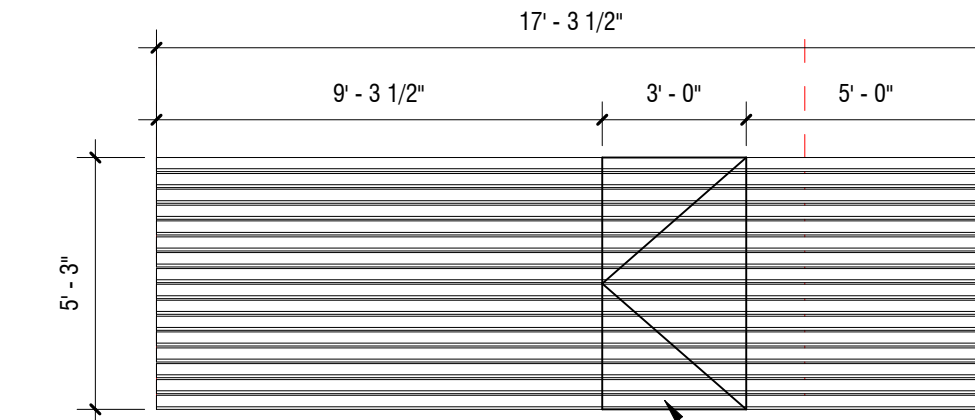
MARK	TO: ROOM NAME	DOOR TYPE	DOOR				DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME		DETAIL		GLAZING	HARDWARE SET	COMMENTS	MARK
			PANEL WIDTH A	PANEL WIDTH B	HEIGHT	THICKNESS				FRAME MATERIAL	FRAME FINISH	HEAD DETAIL	JAMB DETAIL				
102	SERVER	F	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	S	HM	PNT	12/A603	11/A603	-	8		102
104	TELLER	F	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	S	HM	PNT	12/A603	11/A603	-	9		104
105	STORAGE	F	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	S	HM	PNT	12/A603	11/A603	-	6		105
106	PASSAGE	F	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	S	HM	PNT	12/A603	11/A603	-	4		106
107	WOMEN	F	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	S	HM	PNT	12/A603	11/A603	-	3		107
108	MEN	F	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	S	HM	PNT	12/A603	11/A603	-	3		108
109	JANITOR	F	1'-9"	1'-9"	7'-0"	1 3/4"	WOOD	STN-1	S	HM	PNT	12/A603	11/A603	-	10		109
110	PASSAGE	F	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	S	HM	PNT	12/A603	11/A603	-	5		110
111A	BREAK ROOM	F	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	N	ALUM	FACT	8/A603	4/A603	-	9		111A
111B		F	3'-0"		7'-0"	1 3/4"	ALUM	FACT	F	ALUM	FACT	-	-	-	1		111B
112	WAITING	FG1	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	L	ALUM	FACT	8/A603	4/A603	GL-3	5		112
113	OFFICE	FG1	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	L	ALUM	FACT	8/A603	4/A603	GL-3	5		113
114	OFFICE	FG1	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	L	ALUM	FACT	8/A603	4/A603	GL-3	5		114
115	OFFICE	FG1	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	L	ALUM	FACT	8/A603	4/A603	GL-3	5		115
116	OFFICE	FG1	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	L	ALUM	FACT	8/A603	4/A603	GL-3	5		116
117	WAITING	FG1	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	L	ALUM	FACT	8/A603	4/A603	GL-3	5		117
118	WAITING	FG1	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	L	ALUM	FACT	8/A603	4/A603	GL-3	5		118
119	WAITING	FG1	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	L	ALUM	FACT	8/A603	4/A603	GL-3	5		119
120																	120
121	STORAGE	F	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	S	HM	PNT	12/A603	11/A603	-	6		121
122	OFFICE	FG1	3'-0"		7'-0"	1 3/4"	WOOD	STN-1	L	ALUM	FACT	8/A603	4/A603	GL-3	5		122



MS-C
EXTERIOR ALUMINUM FRAME
SCREEN WALL
BOD: AMERICLAD AC-800



MS-B
EXTERIOR ALUMINUM FRAME
SCREEN WALL
BOD: AMERICLAD AC-800

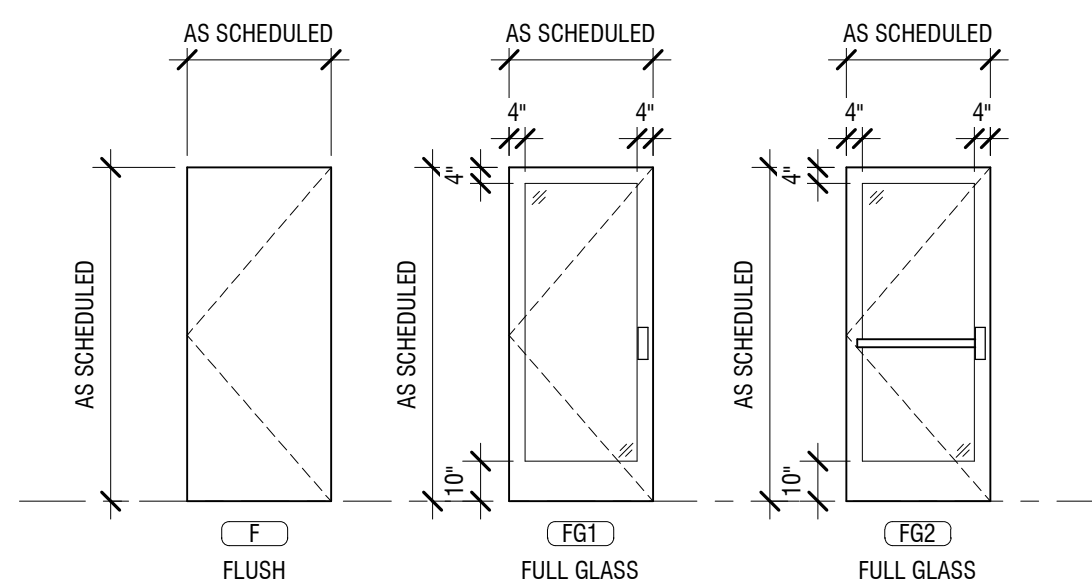


MS-A
EXTERIOR ALUMINUM FRAME
SCREEN WALL
BOD: AMERICLAD AC-800

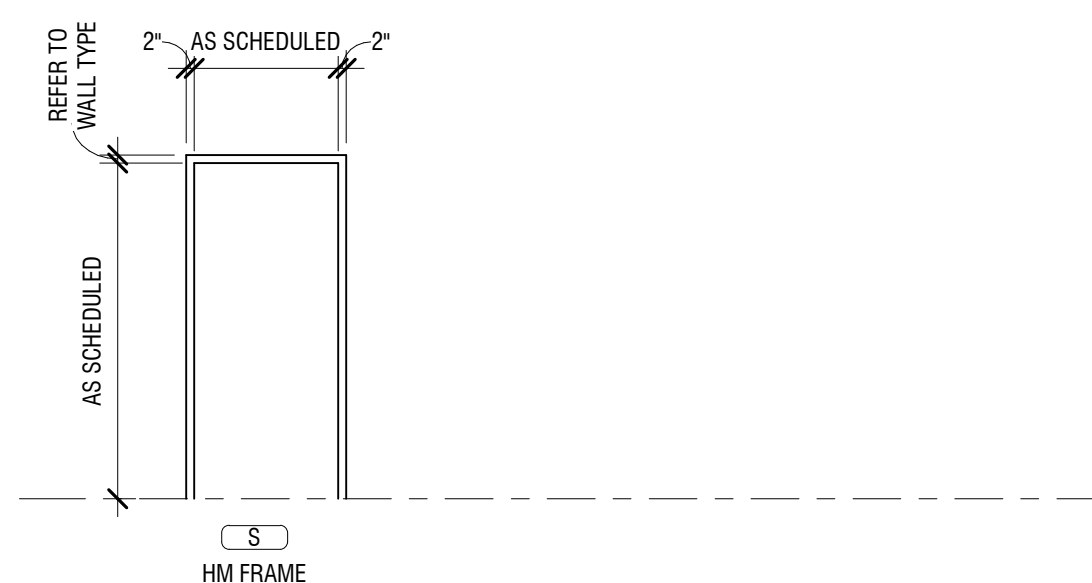
3
A601
MECHANICAL SCREEN TYPE C
SCALE: 1/4" = 1'-0"

2
A601
MECHANICAL SCREEN TYPE B
SCALE: 1/4" = 1'-0"

1
A601
MECHANICAL SCREEN TYPE A
SCALE: 1/4" = 1'-0"



DOOR TYPES



FRAME TYPES

HARDWARE SCHEDULE

HARDWARE SET #1

All hardware to be furnished by door supplier.

- 1 Sets Offset pivots top, bottom, and intermediate
- 1 Ea Surface mounted closers
- 1 Ea MS 1850A lock
- 1 Ea Aluminum threshold
- 1 Set Weatherstrip
- 1 Ea Push/Pull - CO9/CP
- 1 Set Door sweep
- 1 Ea Cylinder 1E72, CMK, MK, 27
- 1 Ea Cylinder Construction Core

HARDWARE SET #2

All hardware to be furnished by door supplier.

- 2 Sets Offset pivots top, bottom, and intermediate
- 2 Ea Surface mounted closers
- 1 Ea MS 1850A lock
- 2 Ea Aluminum threshold
- 2 Set Weatherstrip
- 2 Ea Push/Pull - CO9/CP
- 2 Set Door sweep
- 1 Ea Cylinder 1E72, CMK, MK, 27
- 1 Ea Cylinder Construction Core

HARDWARE SET #3 (restroom)

- 3 Ea Hinge - TA2714 4.5x4.5 26D McKinney Mfg. Co.
- 1 Ea Privacy Set - AL40S SAT 26D Schlage
- 1 Ea Closer - 351 PS EN Sargent
- 2 Ea Kick plate - K1038 8"x34"x038" SA 32D Rockwood
- 1 Ea Wall Stop - 409 26D Rockwood
- 3 Ea Silencer - 608 Gray Rockwood
- 1 Ea Tactile Pictogram Sign w/ Braille - BFM687 "Men" or Black Rockwood
- 1 Ea Tactile Pictogram Sign w/ Braille - BFM688 "Women" Black Rockwood

HARDWARE SET #4 (Mother's Rm)

- 3 Ea Hinge - TA2714 4.5x4.5 26D McKinney Mfg. Co.
- 1 Ea Privacy Set - AL40S SAT 26D Schlage
- 1 Ea Closer - 351 PS EN Sargent
- 3 Ea Silencer - 608 Gray Rockwood
- 1 Ea Wall Stop - 409 32D Rockwood

HARDWARE SET #5 (passage/offices)

- 3 Ea Hinge - TA2714 4.5x4.5 26D McKinney Mfg. Co.
- 1 Ea Passage Set - AL10S SAT 626 Schlage
- 3 Ea Silencer - 608 Gray Rockwood
- 1 Ea Wall Stop - 409 32D Rockwood

HARDWARE SET #6 (storeroom set-storage)

- 3 Ea Hinge - TA2714 4.5x4.5 26D McKinney Mfg. Co.
- 1 Ea Storeroom Set - AL80PD SAT 626 Schlage
- 3 Ea Silencer - 608 Gray Rockwood
- 1 Ea Wall Stop - 409 32D Rockwood

HARDWARE SET #7 (atm)

- 3 Ea Hinge - TA43786 4.5x4.5 NRP PO McKinney Mfg. Co.
- 1 Ea Flush bolt - 555 26D Rockwood
- 1 Ea Deadbolt - 83T KL STK 26D Best Lock Corp.
- 1 Ea Closer - 351 PS EN Sargent
- 1 Ea Lockguard - LG10 USP Ives
- 1 Ea Threshold - 613 National Guard
- 1 Ea Viewer - 698 826D Ives
- 1 Set Weatherstrip - 156V ALUM National Guard
- 1 Ea Door sweep - 102VA National Guard
- 1 Ea Door closer Coordinator

HARDWARE SET #8 (storeroom set w/ card reader - coord. w/ security vendor)

- 3 Ea Hinge - TA2714 4.5x4.5 26D McKinney Mfg. Co.
- 1 Ea Storeroom Set w/ C-Lock
- 1 Ea Electric Strike - Fall Secure
- 1 Ea Exit Device
- 3 Ea Silencer - 608 Gray Rockwood
- 1 Ea Closer - 351 PS EN Sargent
- 1 Ea Wall Stop - 409 32D Rockwood
- 1 Ea Viewer - 698 826D Ives

HARDWARE SET #9 (storeroom set-bank function)

- 3 Ea Hinge - TA2714 4.5x4.5 26D McKinney Mfg. Co.
- 1 Ea Storeroom Set - AL80PD SAT 626 Schlage
- 3 Ea Silencer - 608 Gray Rockwood
- 2 Ea Closer - 351 PS EN Sargent
- 1 Ea Wall Stop - 409 32D Rockwood
- 1 Ea Viewer - 698 826D Ives

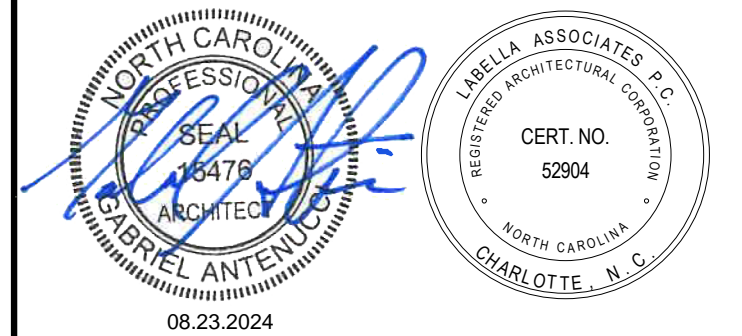
HARDWARE SET #10 (storeroom set-storage)

- 6 Ea Hinge - TA2714 4.5x4.5 26D McKinney Mfg. Co.
- 2 Ea Storeroom Set - AL80PD SAT 626 Schlage
- 6 Ea Silencer - 608 Gray Rockwood
- 2 Ea Overhead stop

HARDWARE SET #10 (storeroom set-storage)

- 6 Ea Hinge - TA2714 4.5x4.5 26D McKinney Mfg. Co.
- 2 Ea Storeroom Set - AL80PD SAT 626 Schlage
- 6 Ea Silencer - 608 Gray Rockwood
- 2 Ea Overhead stop

NOTE:
HARDWARE SCHEDULE IS FOR REFERENCE ONLY. CONTRACTOR TO SUBMIT ACTUAL HARDWARE SCHEDULE FOR REVIEW AND APPROVAL BY ARCHITECT PRIOR TO PURCHASING HARDWARE.



NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: BAW

REVIEWED BY: GGA

ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NUMBER:

DOOR SCHEDULE AND DETAILS

DRAWING NUMBER:



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LCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: BAW

REVIEWED BY: GGA

ISSUED FOR: BID SET

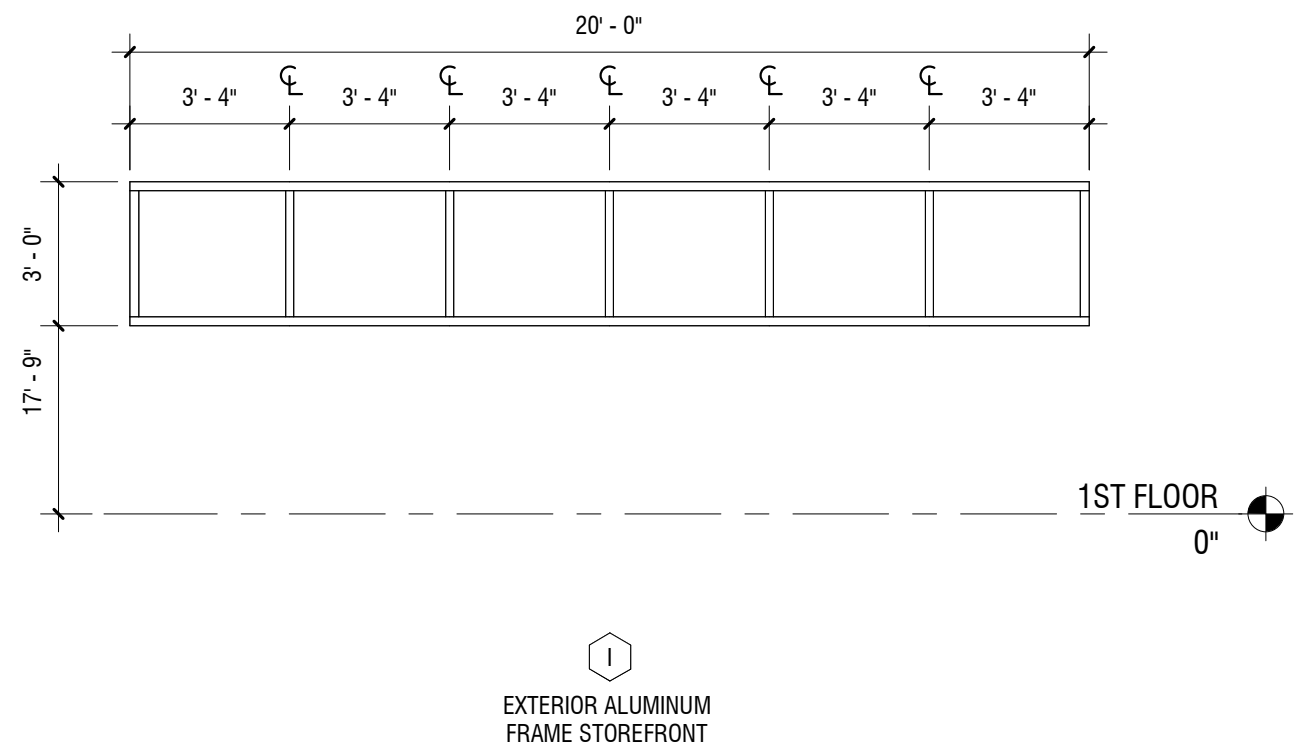
DATE: 08.23.2024

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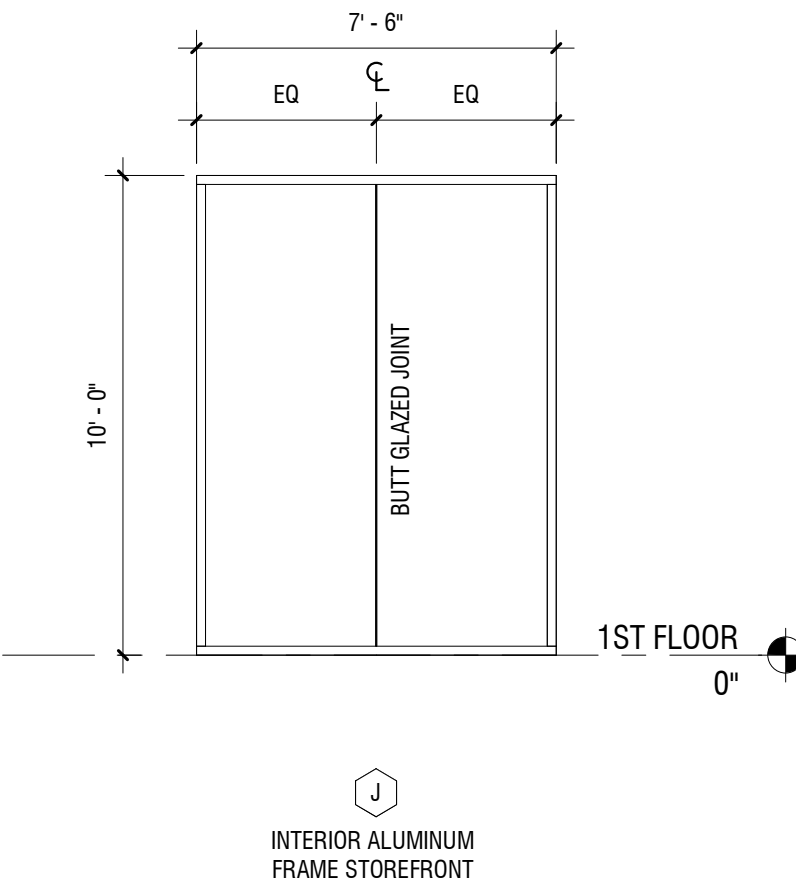
STOREFRONT TYPES

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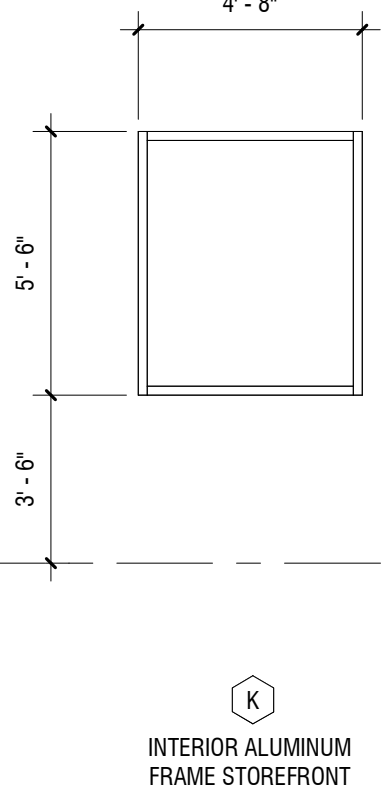
A602



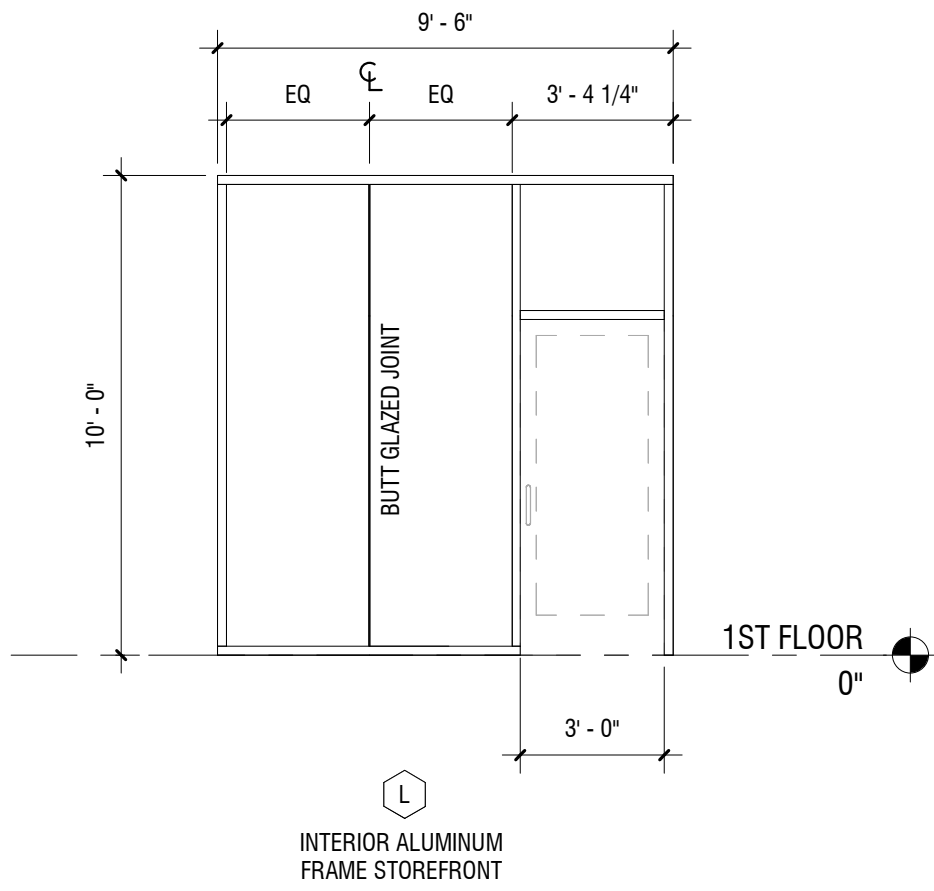
11 ELEVATION TYPE I
A602 SCALE: 1/4" = 1'-0"



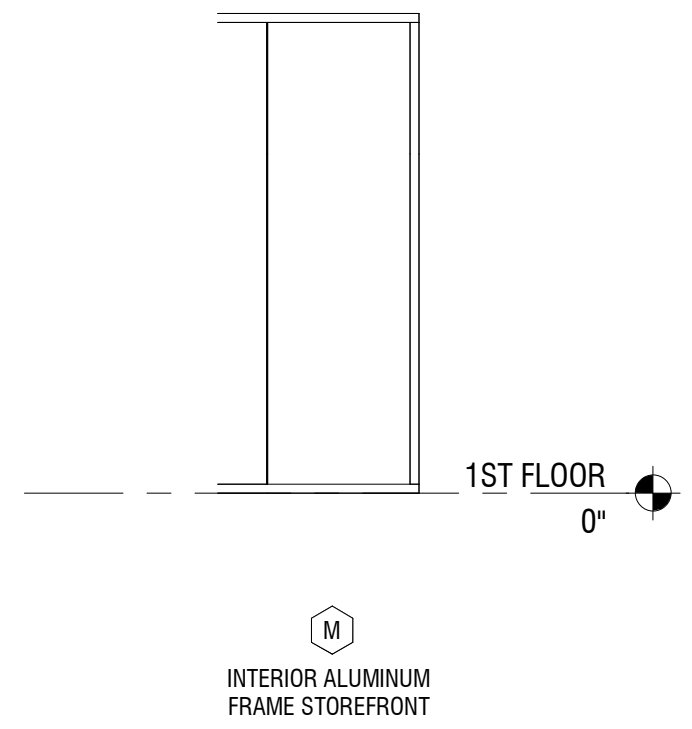
12 ELEVATION TYPE J
A602 SCALE: 1/4" = 1'-0"



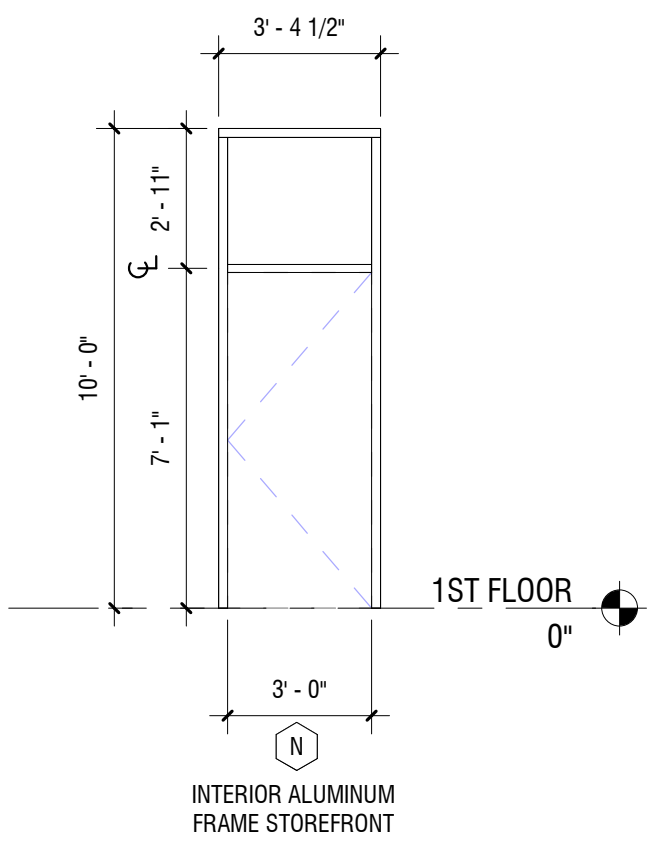
13 ELEVATION TYPE K
A602 SCALE: 1/4" = 1'-0"



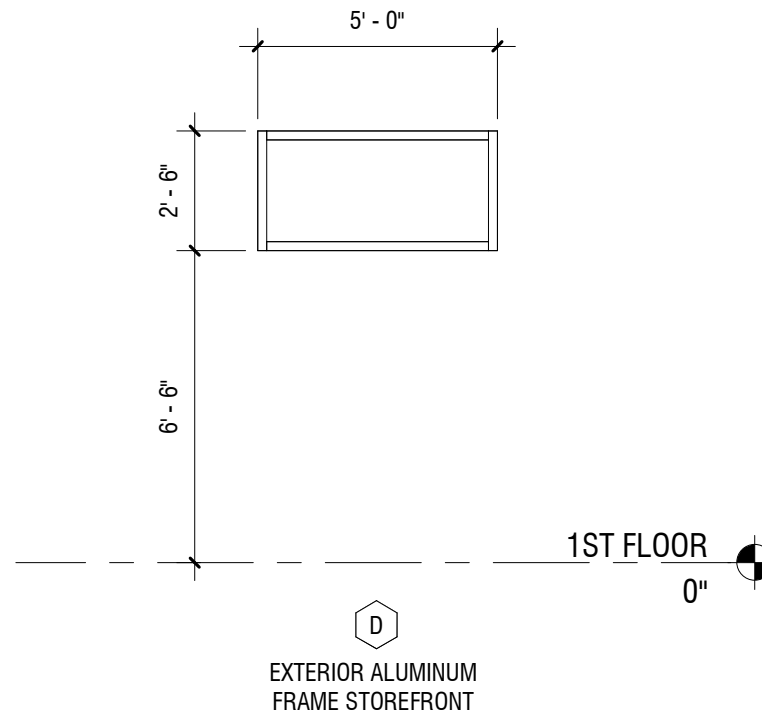
14 ELEVATION TYPE L
A602 SCALE: 1/4" = 1'-0"



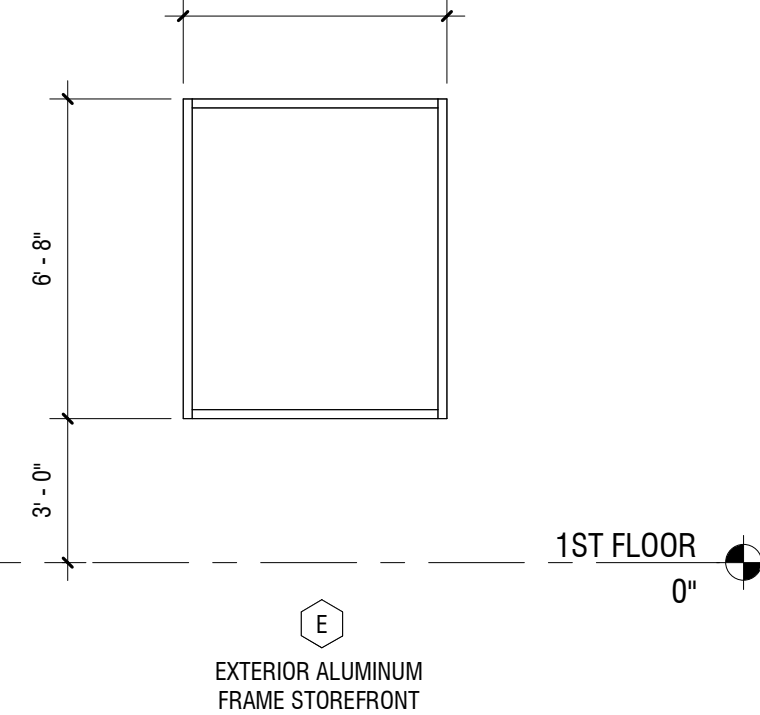
15 ELEVATION TYPE M
A602 SCALE: 1/4" = 1'-0"



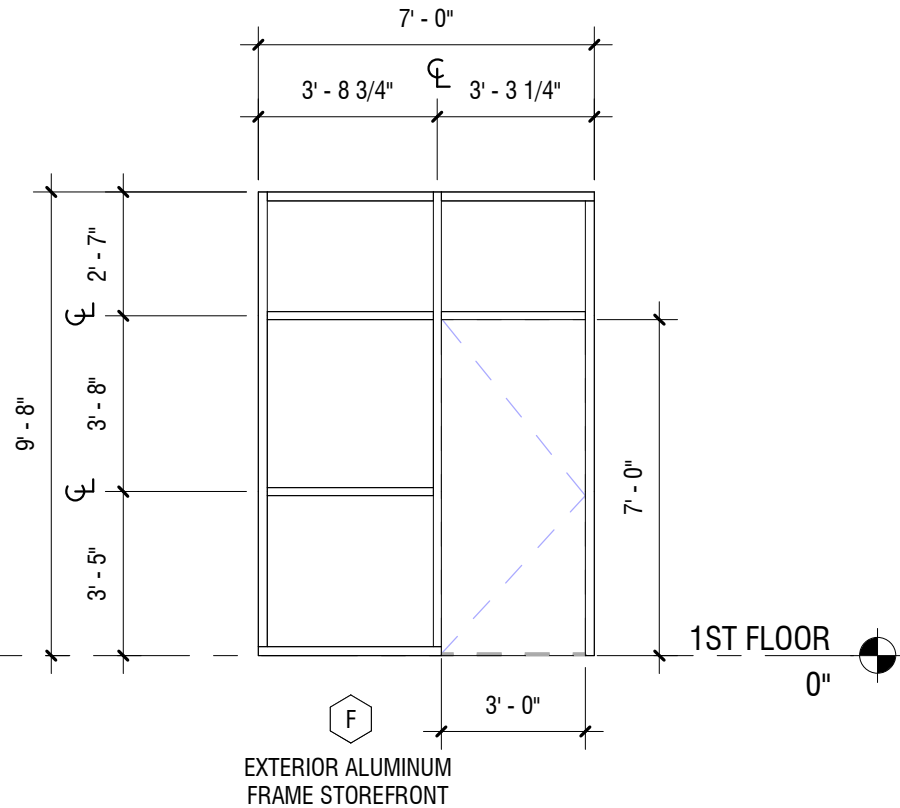
16 ELEVATION TYPE N
A602 SCALE: 1/4" = 1'-0"



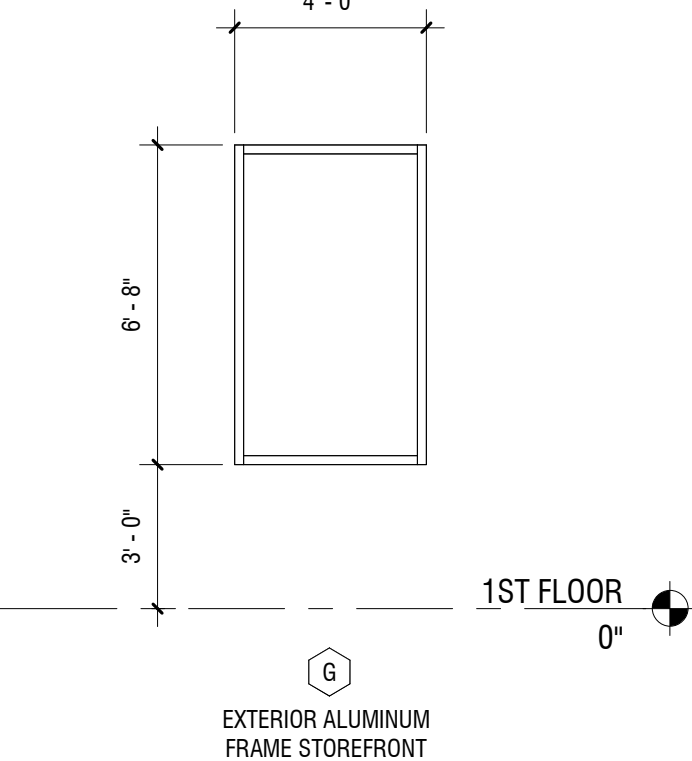
6 ELEVATION TYPE D
A602 SCALE: 1/4" = 1'-0"



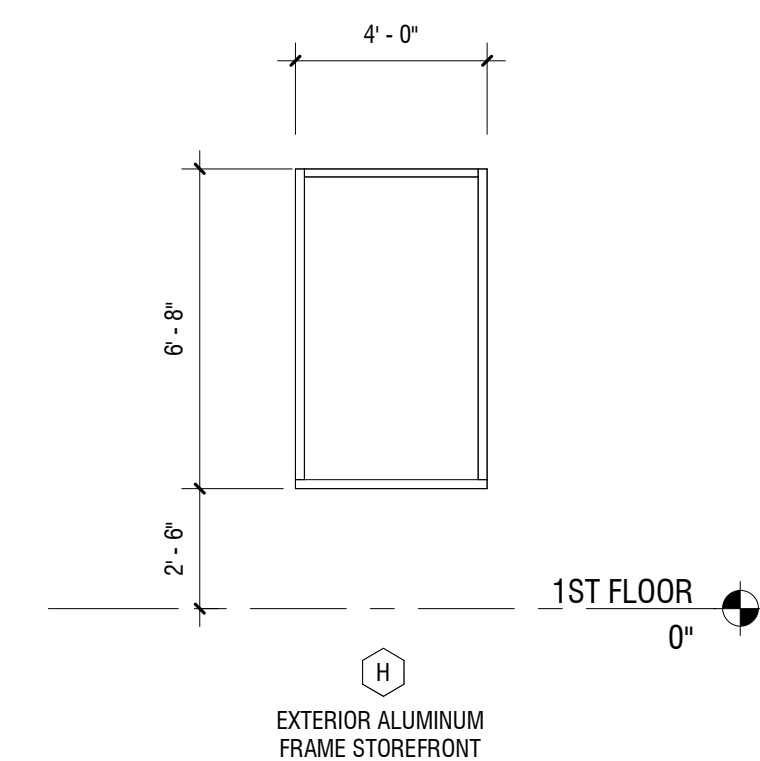
7 ELEVATION TYPE E
A602 SCALE: 1/4" = 1'-0"



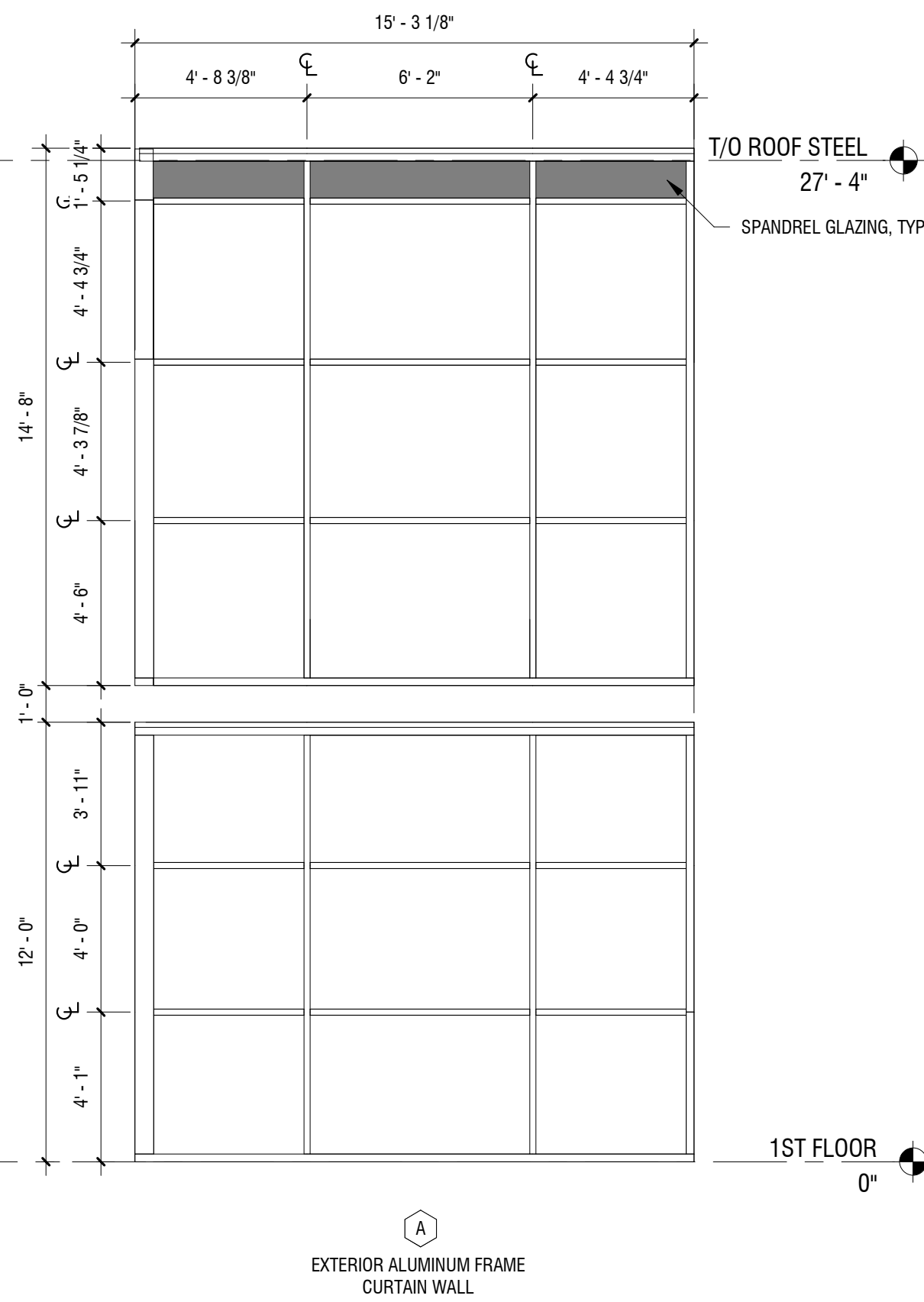
8 ELEVATION TYPE F
A602 SCALE: 1/4" = 1'-0"



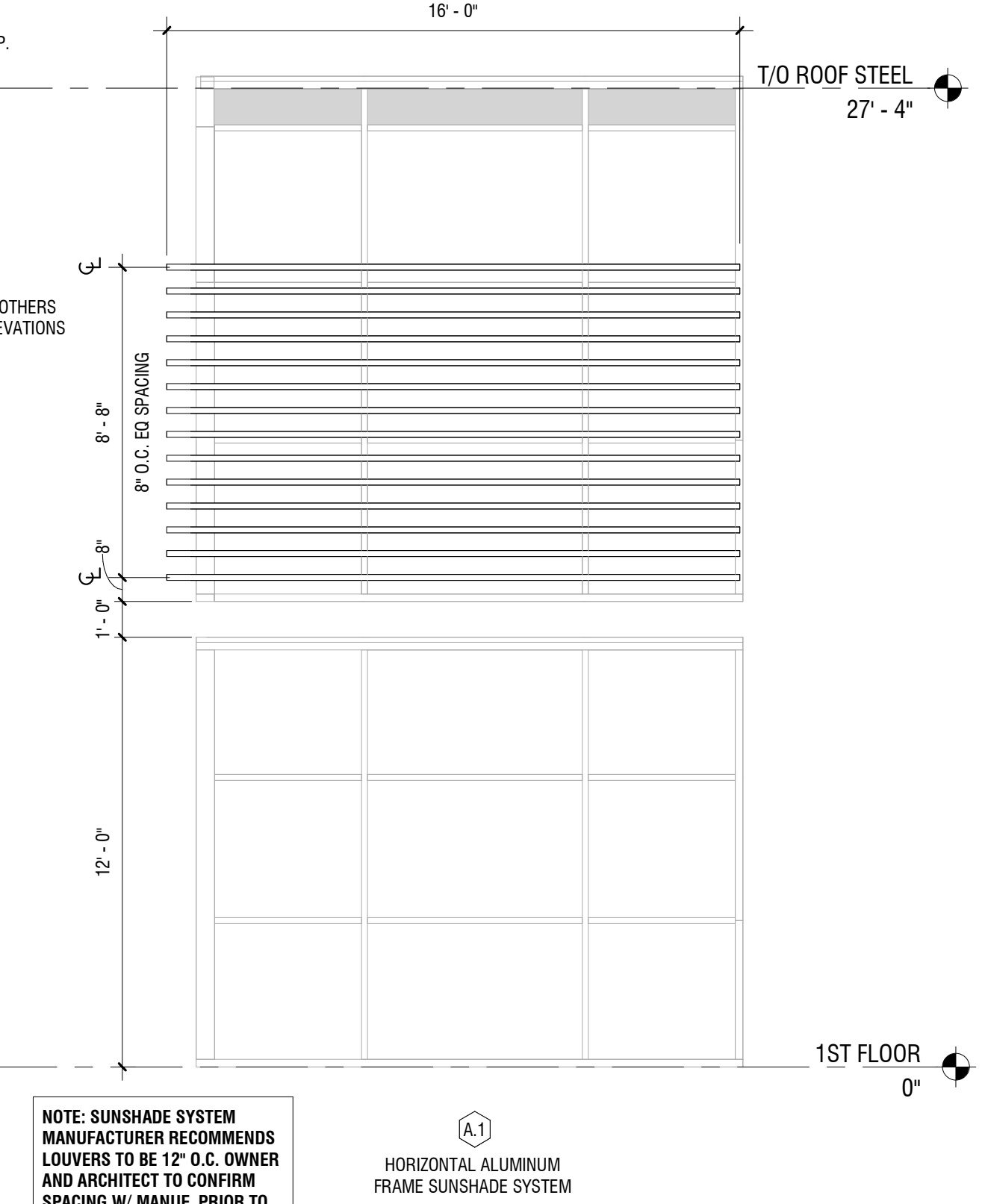
9 ELEVATION TYPE G
A602 SCALE: 1/4" = 1'-0"



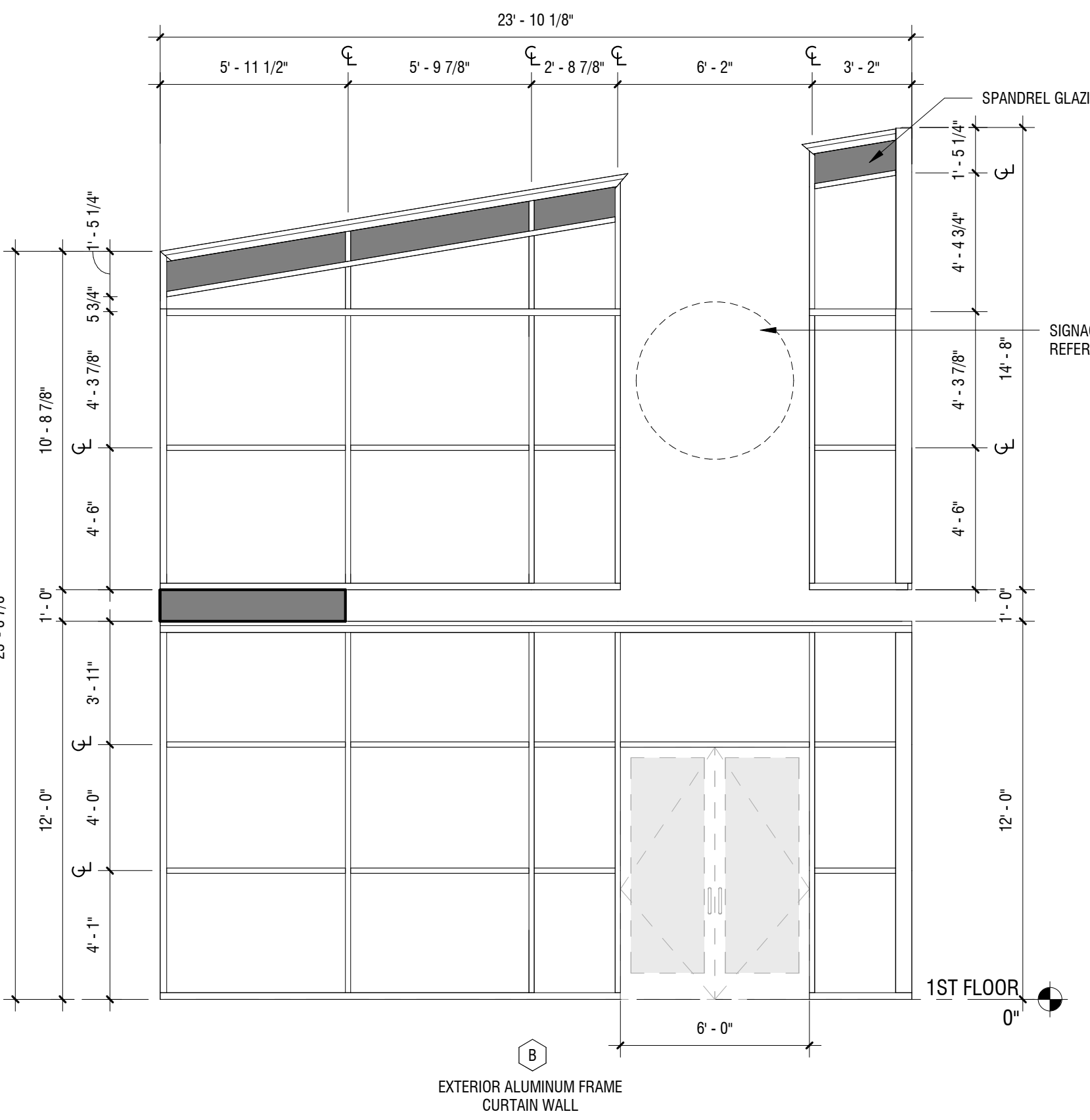
10 ELEVATION TYPE H
A602 SCALE: 1/4" = 1'-0"



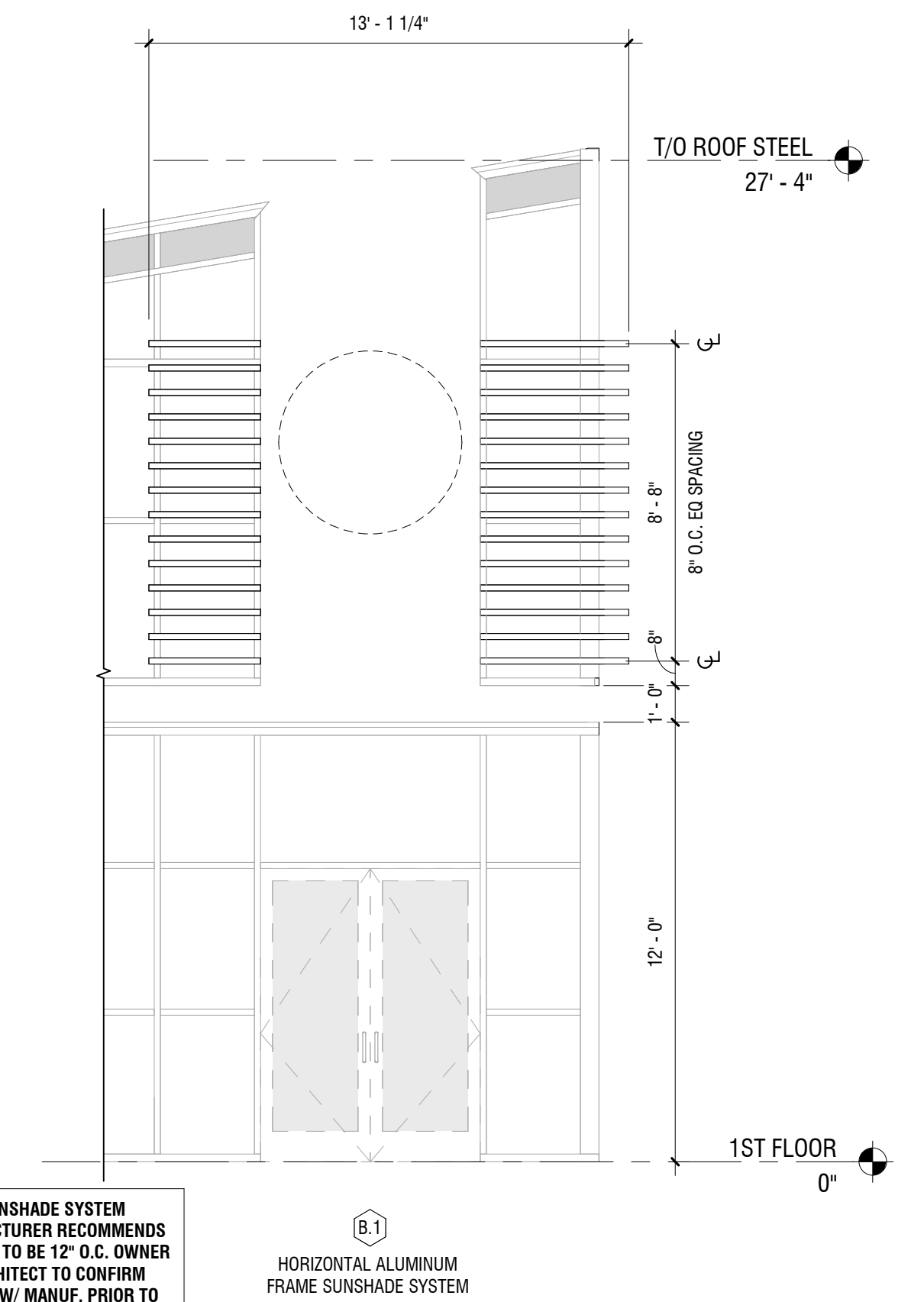
1 ELEVATION TYPE A
A602 SCALE: 1/4" = 1'-0"



2 ELEVATION TYPE A.1 - LOUVER WALL
A602 SCALE: 1/4" = 1'-0"



3 ELEVATION TYPE B
A602 SCALE: 1/4" = 1'-0"



4 ELEVATION TYPE B.1 - LOUVER WALL
A602 SCALE: 1/4" = 1'-0"

NOTE: SUNSHADE SYSTEM MANUFACTURER RECOMMENDS LOUVERS TO BE 12" O.C. OWNER AND ARCHITECT TO CONFIRM SPACING W/ MANUF. PRIOR TO FABRICATION

NOTE: SUNSHADE SYSTEM MANUFACTURER RECOMMENDS LOUVERS TO BE 12" O.C. OWNER AND ARCHITECT TO CONFIRM SPACING W/ MANUF. PRIOR TO FABRICATION

8/22/2024 2:36:55 PM



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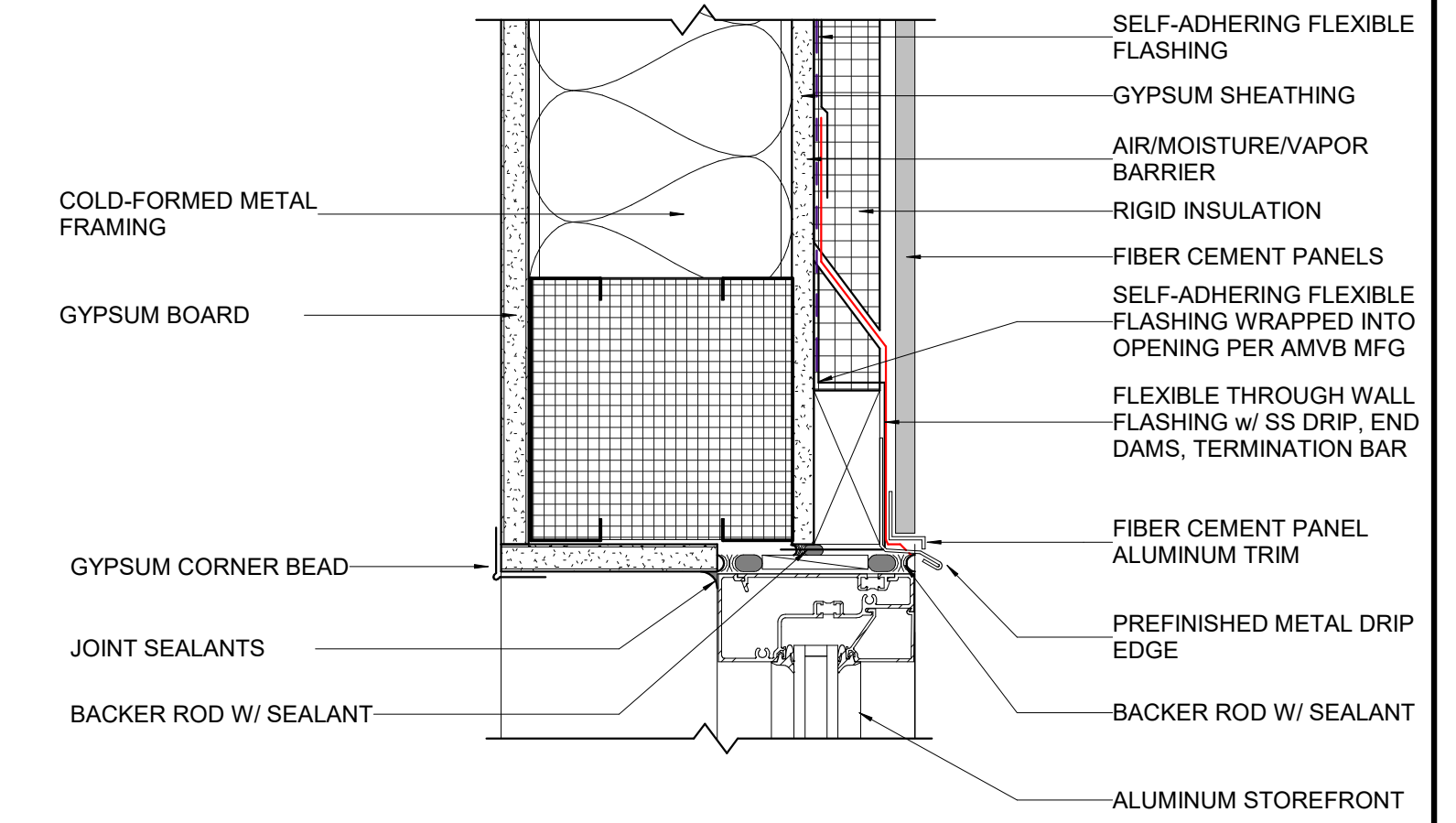
LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		BAW
REVIEWED BY:		GGA
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

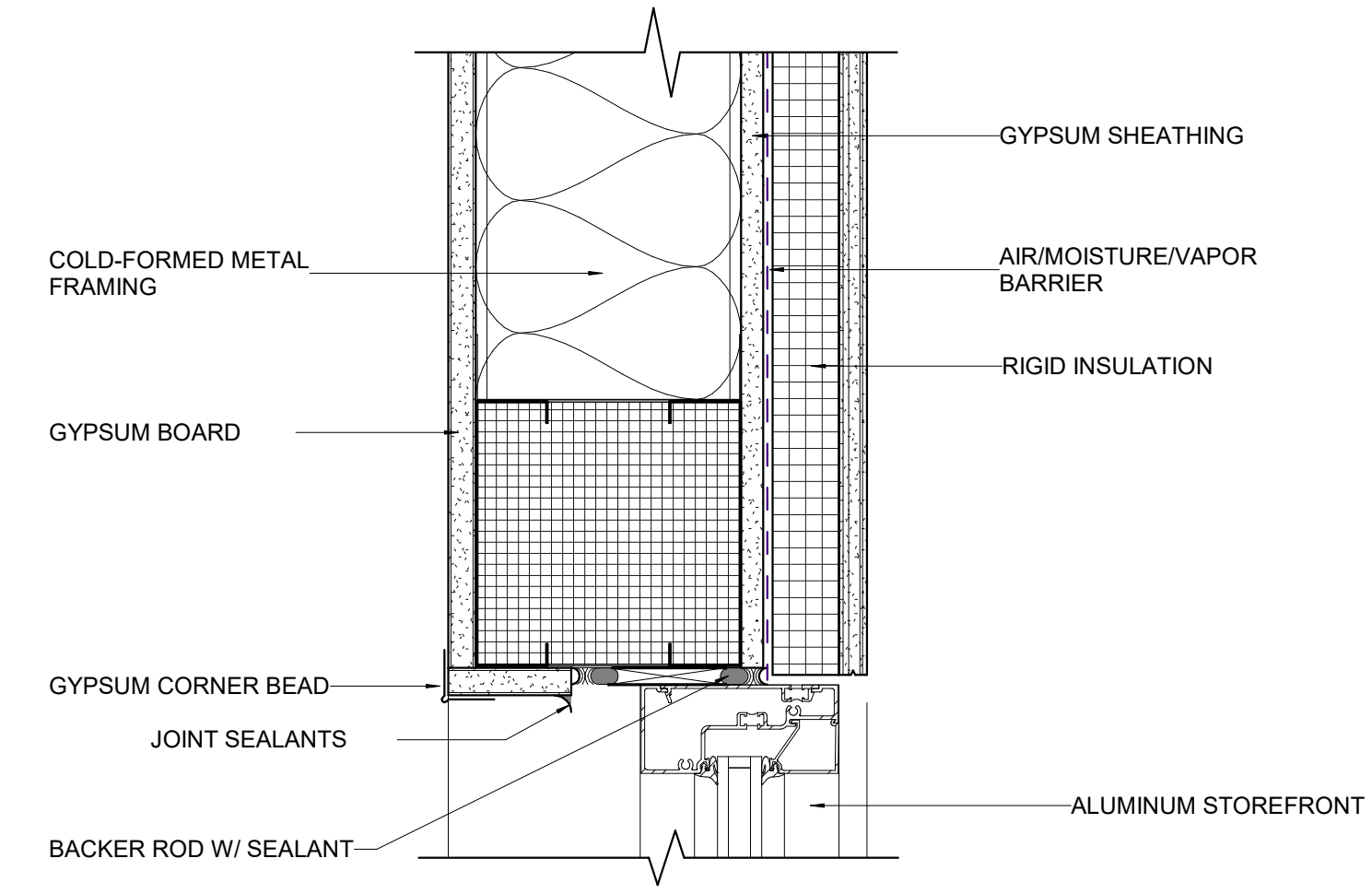
STOREFRONT AND HM DETAILS

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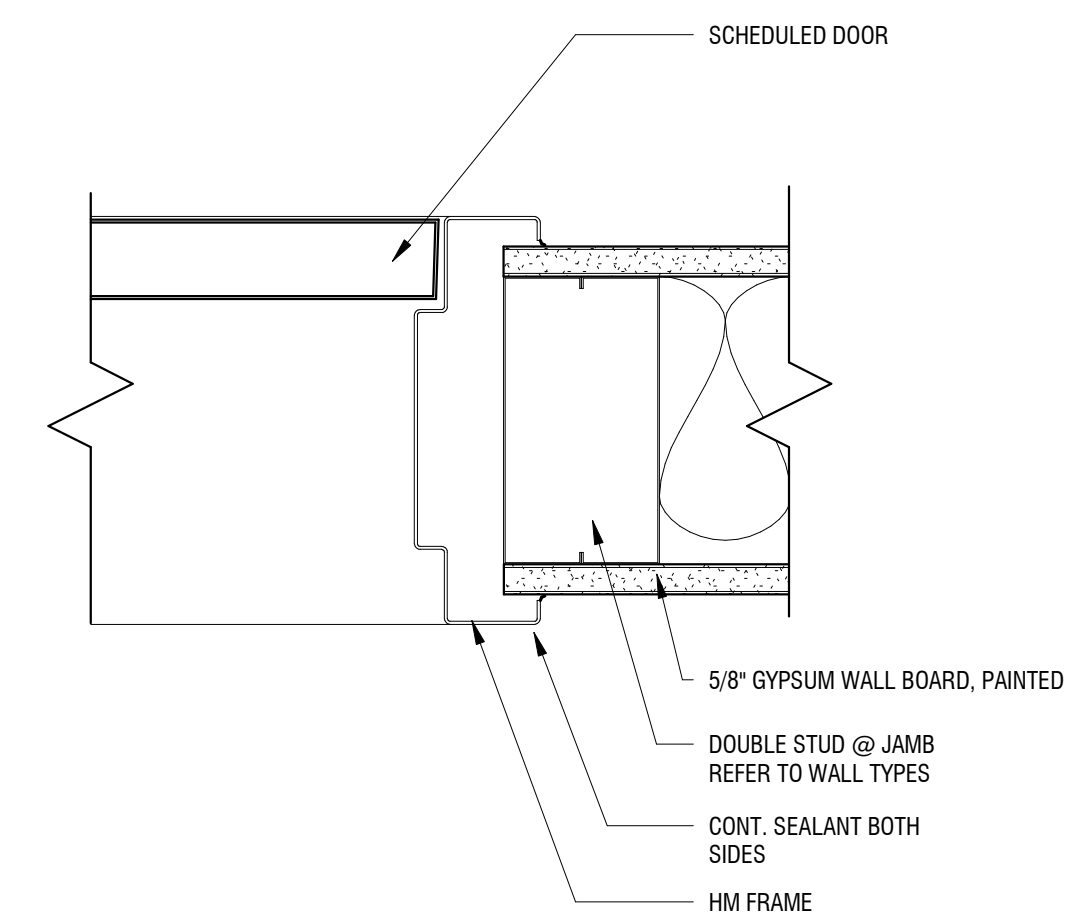
A603



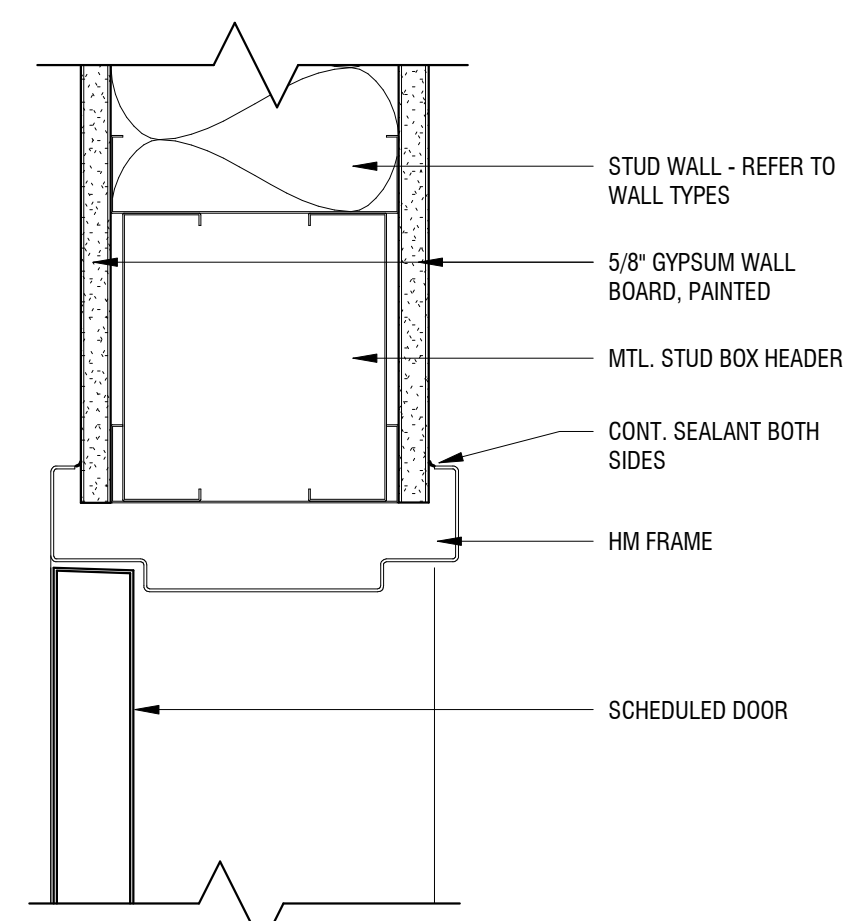
9 TYP. STOREFRONT HEAD - FIBER CEMENT
SCALE: 3" = 1'-0"



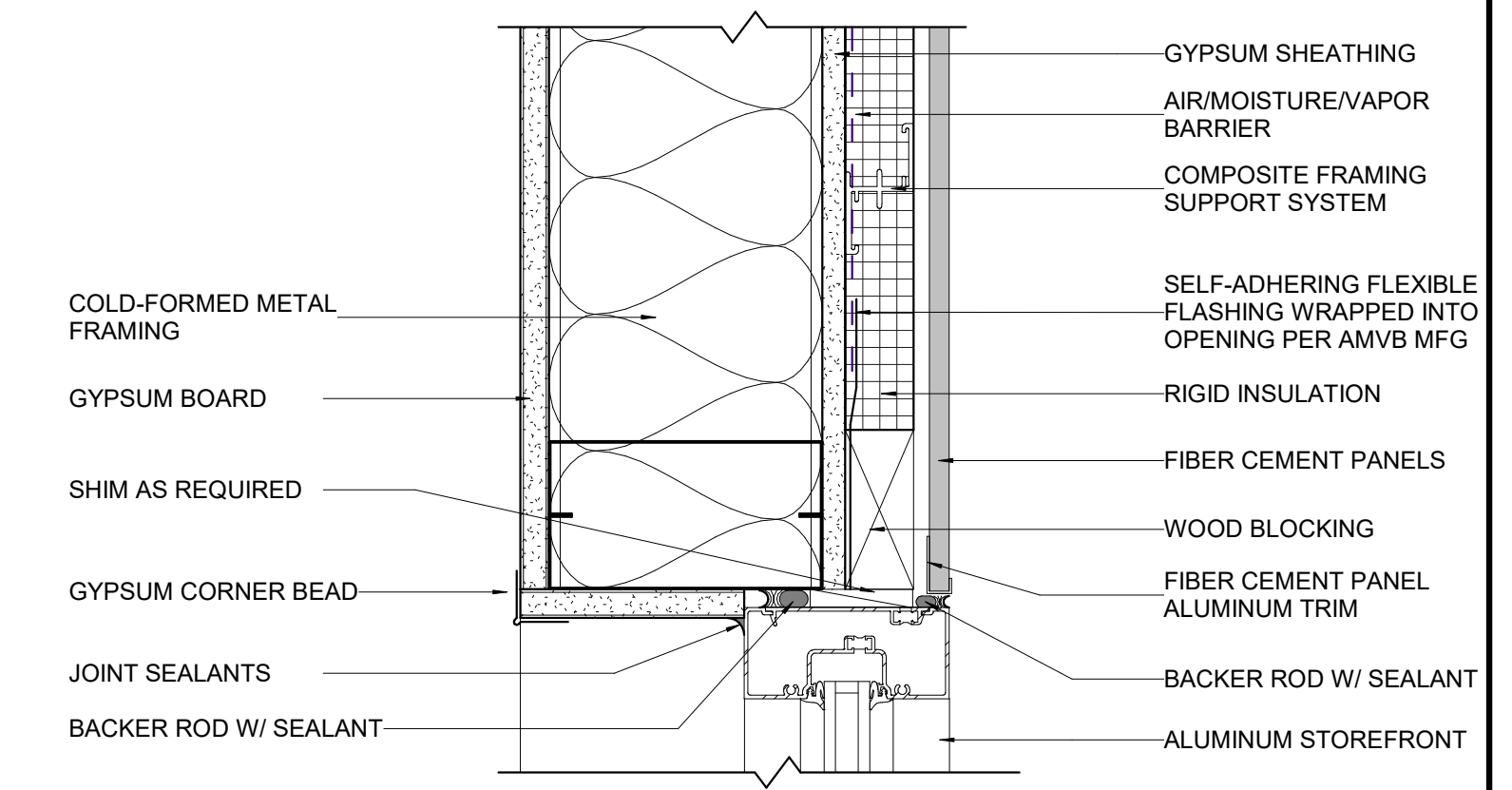
10 TYP. STOREFRONT HEAD DETAIL - EIFS
SCALE: 3" = 1'-0"



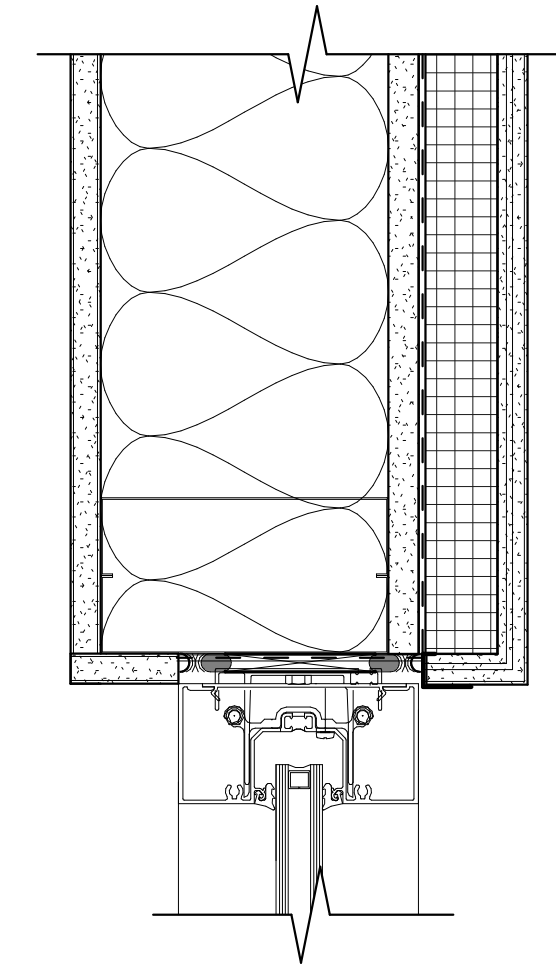
11 JAMB @ HM FRAME - GWB
SCALE: 3" = 1'-0"



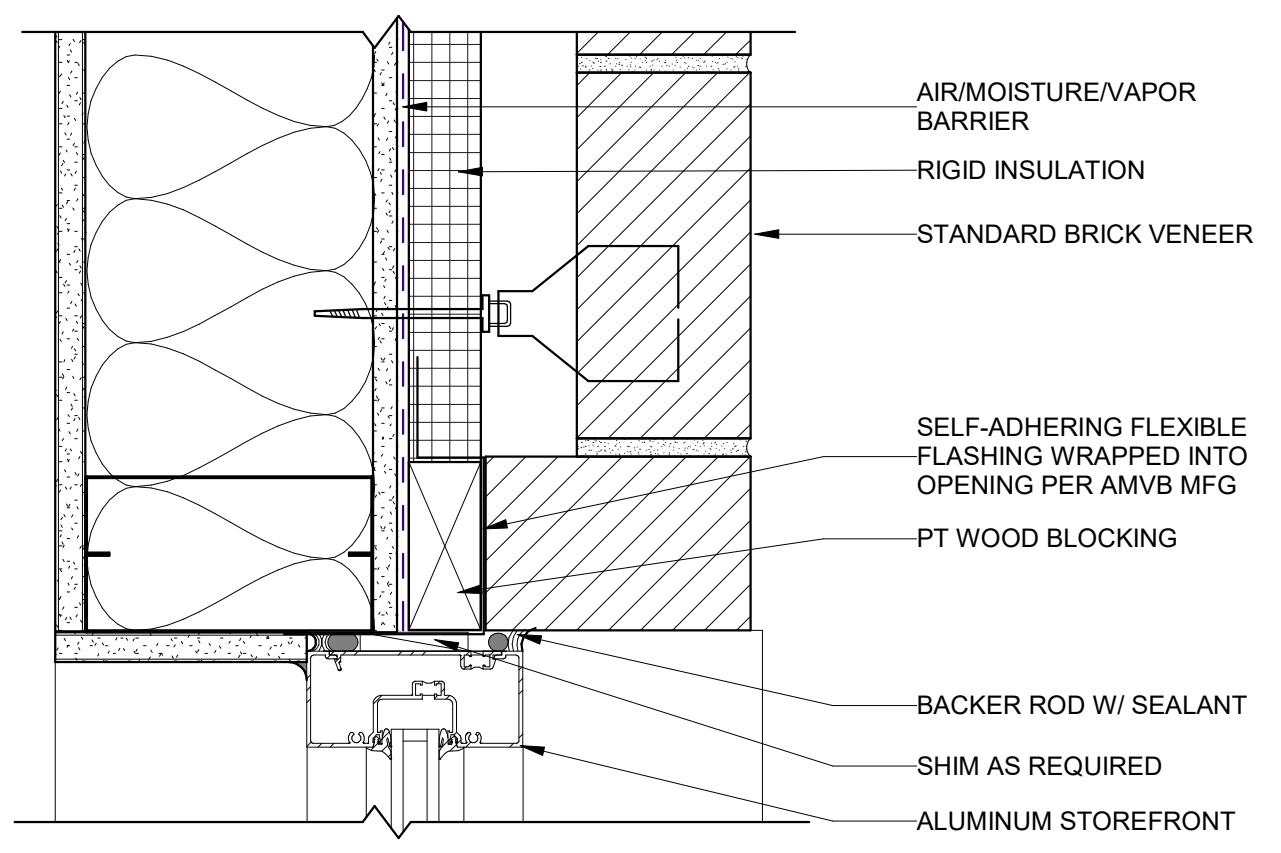
12 HEAD @ HM FRAME - GWB
SCALE: 3" = 1'-0"



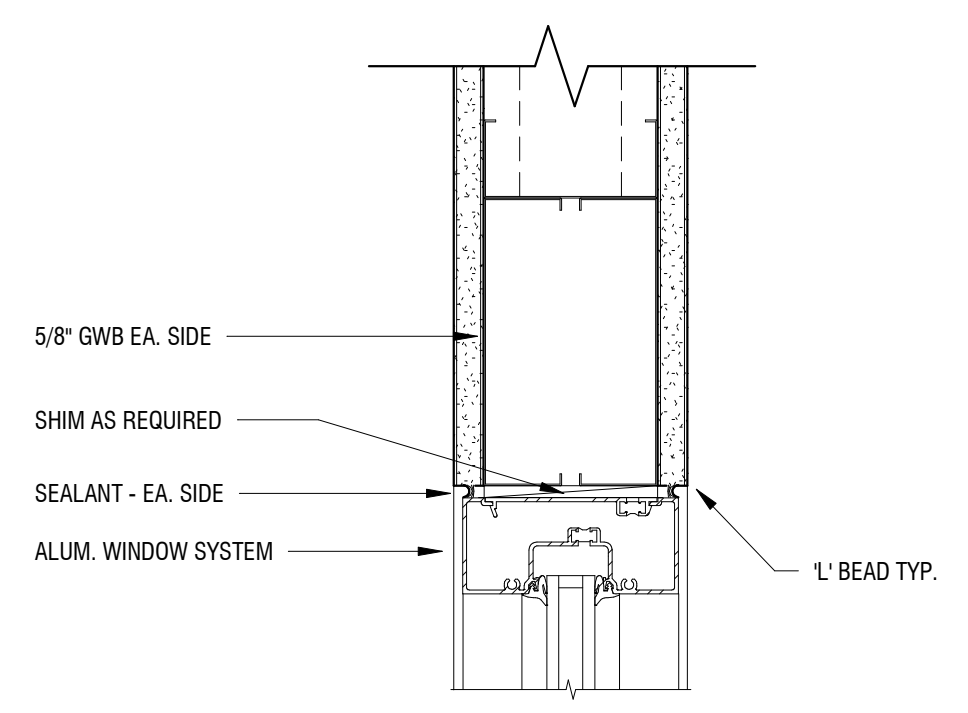
5 TYP. STOREFRONT JAMB - FIBER CEMENT
SCALE: 3" = 1'-0"



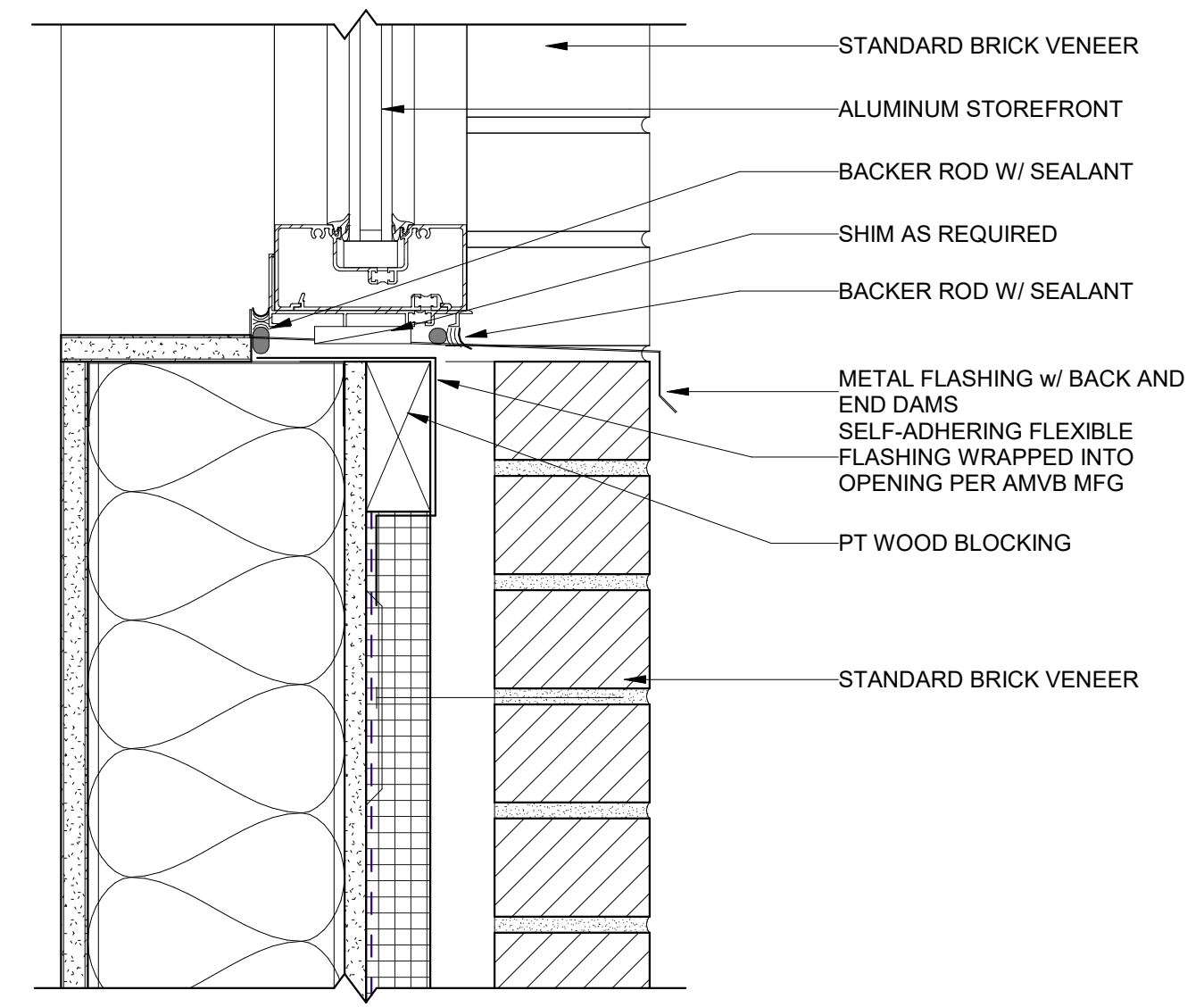
6 TYP. STOREFRONT JAMB DETAIL- EIFS
SCALE: 3" = 1'-0"



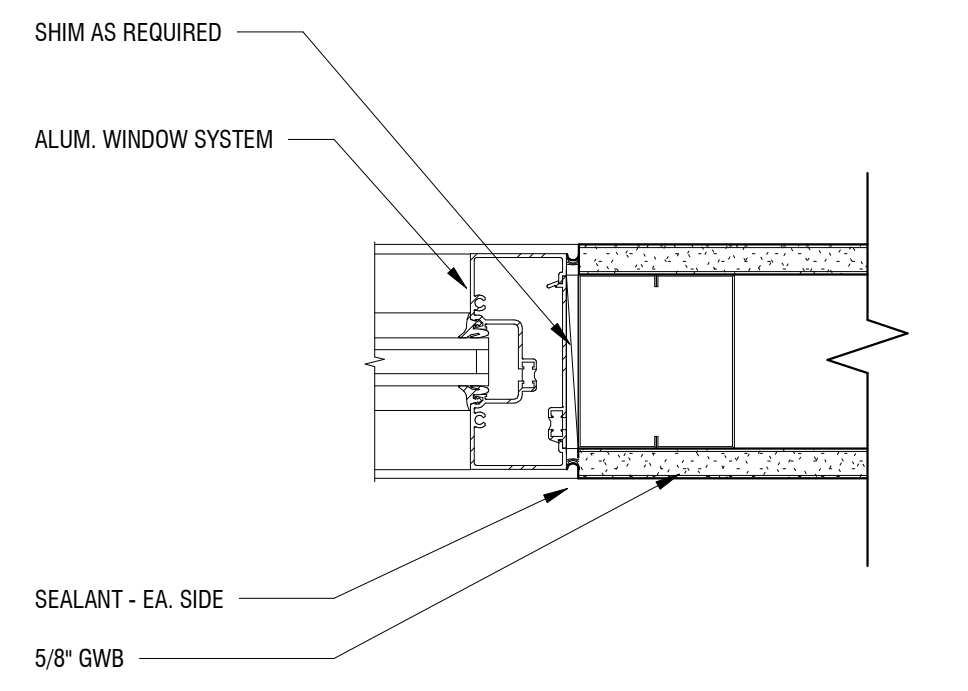
7 TYP. STOREFRONT JAMB - BRICK VENEER
SCALE: 3" = 1'-0"



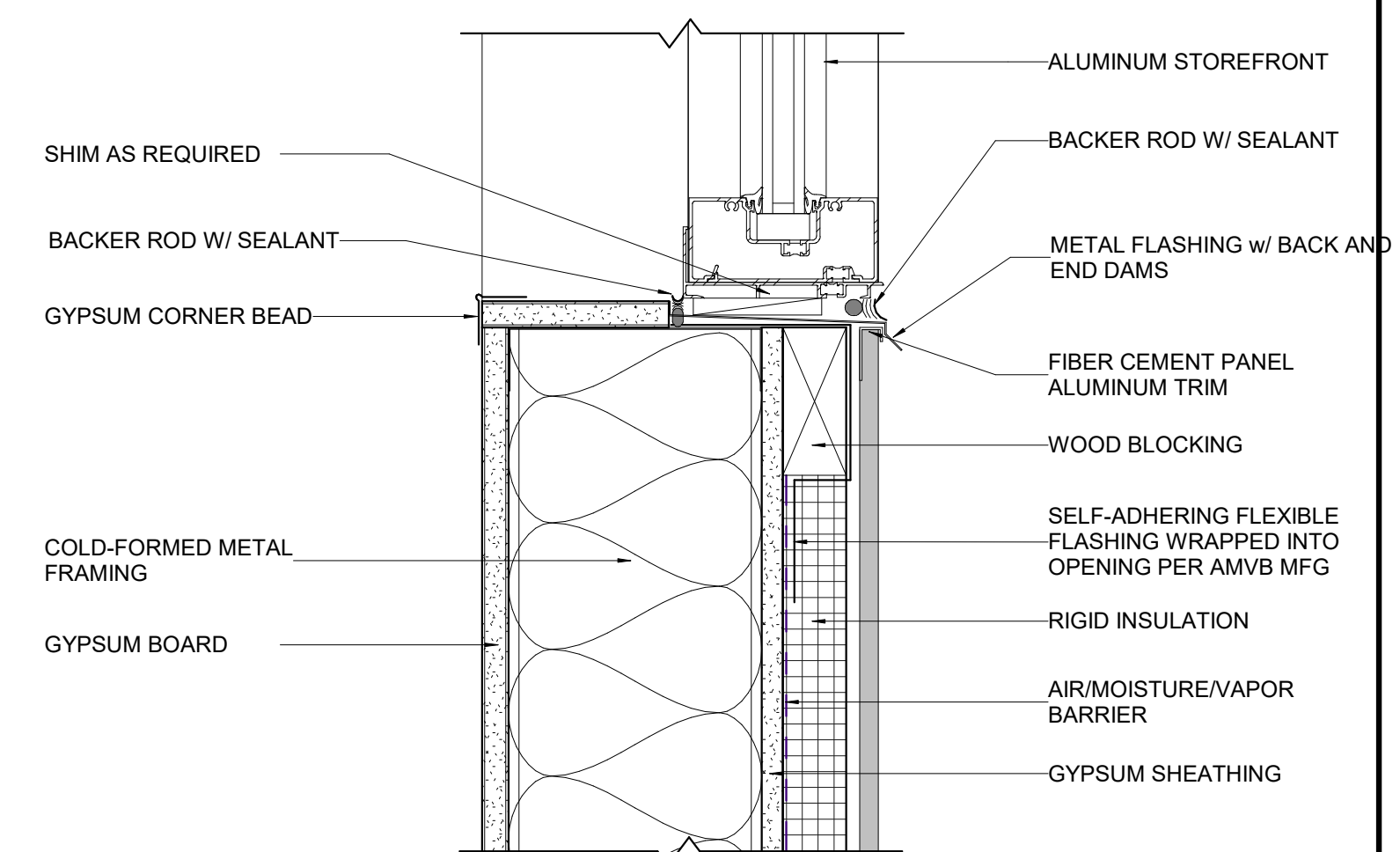
8 HEAD @ ALUM. FRAME - GWB
SCALE: 3" = 1'-0"



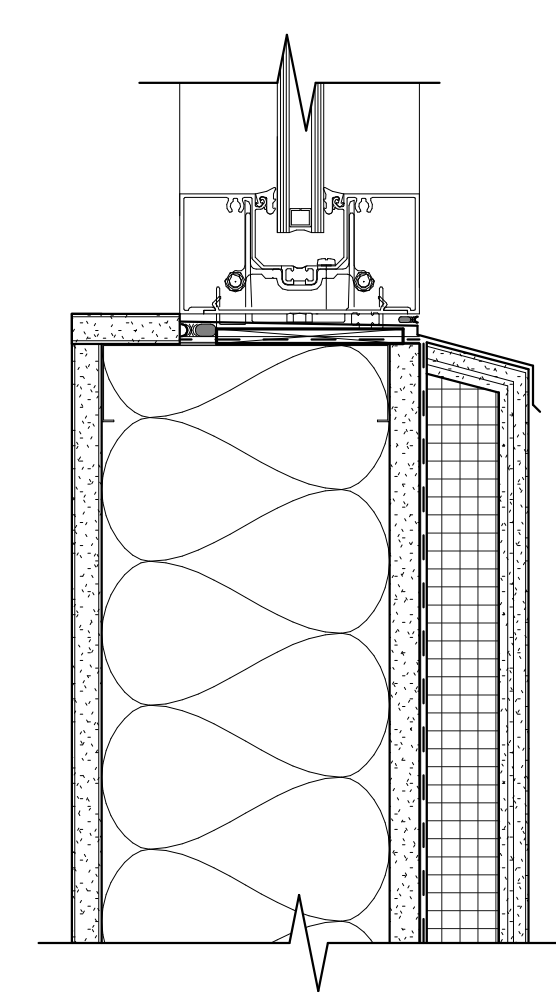
3 TYP. STOREFRONT SILL @ BRICK VENEER
SCALE: 3" = 1'-0"



4 JAMB @ ALUM. FRAME - GWB
SCALE: 3" = 1'-0"



1 TYP. STOREFRONT SILL - FIBER CEMENT
SCALE: 3" = 1'-0"



2 TYP. STOREFRONT SILL DETAIL- EIFS
SCALE: 3" = 1'-0"

8/22/2024 2:36:57 PM

CODE	MANUFACTURER	STYLE/PATTERN	COLOR	SIZE	ADDITIONAL REQUIREMENTS	REMARKS
ACOUSTIC CEILING TILE						
ACT-1	ARMSTRONG	CORTEGA TEGULAR 704	WHITE	24" x 24"	15/16" PRELUDE GRID, WHITE	FIELD
ACT-2	ARMSTRONG	ULTIMA HIGH NRC TEGULAR 1941	WHITE	24" x 24"	15/16" PRELUDE GRID, WHITE	OFFICES, MOTHER'S RM
CARPET						
CPT-1	MOHAWK	UMPTEN BT594 - SWITCHCODE	BRAVO	24" x 24"	COORD. FINAL PATTERN & LAYOUT W/ OWNER	MEDIUM GRAY FIELD
CPT-2	MOHAWK	UMPTEN BT594 - SWITCHCODE	ALPHA	24" x 24"	COORD. FINAL PATTERN & LAYOUT W/ OWNER	DARK GRAY FIELD
CPT-3	MOHAWK	UMPTEN BT594 - SWITCHCODE	CHARLIE	24" x 24"	COORD. FINAL PATTERN & LAYOUT W/ OWNER	LIGHT GRAY FIELD
CEILING BLADE SYSTEM						
CB-1	ARMSTRONG	METALWORKS BLADES - CLASSICS	EFFECTS CLASSICS - CHERRY	4" x REFER TO RCP	PROVIDE SHOP DRAWING LAYOUT FOR REVIEW	
CERAMIC/PORCELAIN TILE						
CT-1	DALTILE	VOLUME 1.0	STEREO GREY	12" x 24"	RUNNING BOND	LIGHT FLOOR TILE
CT-2	DALTILE	VOLUME 1.0	INTENSITY PEBBLE	12" x 24"	RUNNING BOND	DARK FLOOR TILE
EPOXY PAINT						
EPT-1	SHERWIN WILLIAMS	PRO INDUSTRIAL HIGH-PERFORMANCE EPOXY	ROMAN COLUMN SW7562	-	-	FIELD COLOR
FIRE RETARDANT TREATED PLYWOOD						
FRT-1	-	SMOOTH FACE	-	3/4"	FULL WALL HEIGHT	
GROUT						
GRT-1	POLYBLEND	SANDED GROUT	CAPE GREY	-	-	FLOOR TILE CT-1
GRT-2	POLYBLEND	SANDED GROUT	WALNUT	-	-	FLOOR TILE CT-2
HIGH PRESSURE LAMINATE						
HPL-1	WILSONART	FINE GRAIN FINISH	ZANZIBAR - 7597K-78	-	-	CASEWORK
HPL-2	WILSONART	STANDARD HPL - MATTE FINISH	NAVY LEGACY - 4651-60	-	-	COUNTER (BREAK ROOM)
HPL-3	WILSONART	STANDARD HPL - MATTE FINISH	GRAPHITE NEBULA	-	-	BATHROOM VANITY
LUXURY VINYL TILE						
LVT-1	ARMSTRONG	NATURAL CREATIONS	SILVER SUR	7" x 48"	PARALLEL 12	FIELD
PAINT						
PNT-1	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC INTERIOR PAINT	CREAMY SW 7012	-	FLAT	FIELD COLOR
PNT-2	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC INTERIOR PAINT	ANTIQUITY 6402	-	FLAT	ACCENT COLOR
PNT-3	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC INTERIOR PAINT	SERAPE 6656	-	FLAT	ACCENT COLOR
PNT-4	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC INTERIOR PAINT	TBD BY OWNER	-	GLOSS	DOOR AND GLAZING TRIM
PNT-5	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC INTERIOR PAINT	CEILING BRIGHT WHITE SW7007	-	FLAT	CEILING FIELD COLOR
SOLID SURFACE						
SS-1	WILSONART	SOLID SURFACE	FROSTY WHITE MIRAGE	-	-	BATHROOM VANITY COUNTER
STAIN						
ST-1	MASONITE	FACTORY FINISHED STAIN ON NATURAL BIRCH	CANE	-	PROVIDE SAMPLE	WOOD DOORS
TRANSITION STRIP						
TS-1	POWERHOLD	5/32" SQUARE PROFILE LVT904	ETCHED ALUMINUM	5/32"	ITEM #403263	ACCENT WALL CORNERS
TS-2	SCHLUTER	SCHIENE	ANODIZED ALUMINUM	-	-	CT TO CPT TRANSITIONS
WALL BASE						
RB-1	ROPPE	700 SERIES WALL BASE	123 CHARCOAL	4" HIGH	-	WALL BASE
WALL COVERING						
WC-1	SHAW CONTRACT	GRAIN + PIGMENT	HONEY, 64240	-	-	ACCENT WALLS

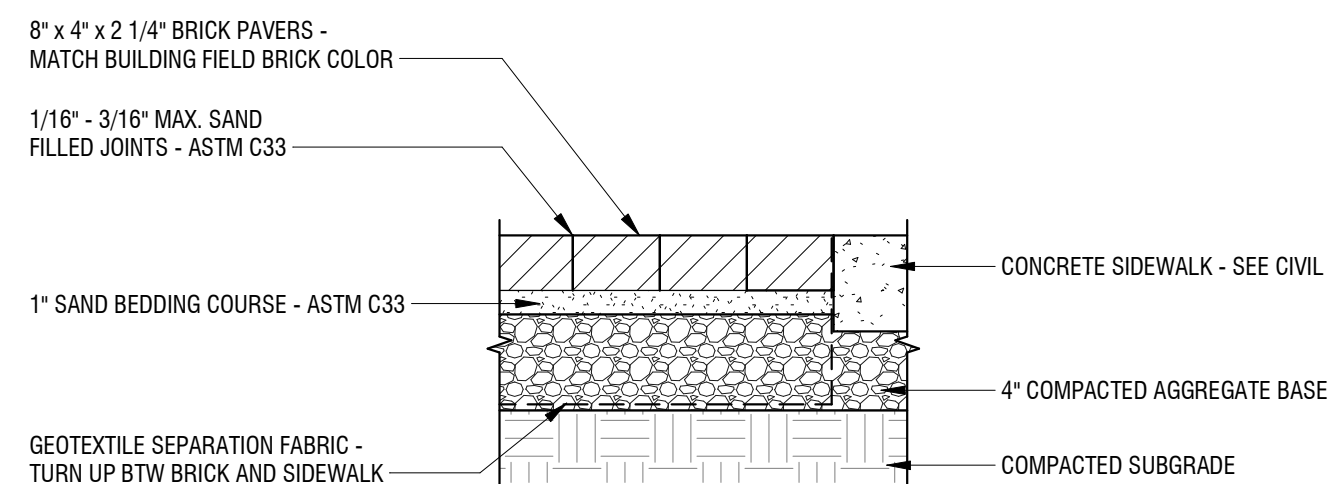
FINISH PLAN GENERAL NOTES

- VERIFY & COORDINATE ALL INTERIOR FINISHES WITH OWNER PRIOR TO ORDERING. GC TO SUBMIT FULL SHOP DRAWINGS & PRODUCT DATA.
- ALL INTERIOR FINISHES TO COMPLY WITH APPLICABLE ANSI AND ASTM STANDARDS
- ALL HOLLOW METAL DOORS, DOOR FRAMES, AND HOLLOW METAL WINDOW FRAMES WITHIN AREA OF WORK SHALL BE PAINTED PTB.
- ALL LOUVERS, VENTS, GRILLES, AND OTHER MISC. MECHANICAL & ELECTRICAL DEVICES ARE TO BE PAINTED TO MATCH SURFACE ON WHICH THEY APPEAR, UNLESS NOTED OTHERWISE.
- ALL FLOOR FINISHES SHALL TRANSITION AT CENTERLINE OF DOOR, UNLESS NOTED OTHERWISE.

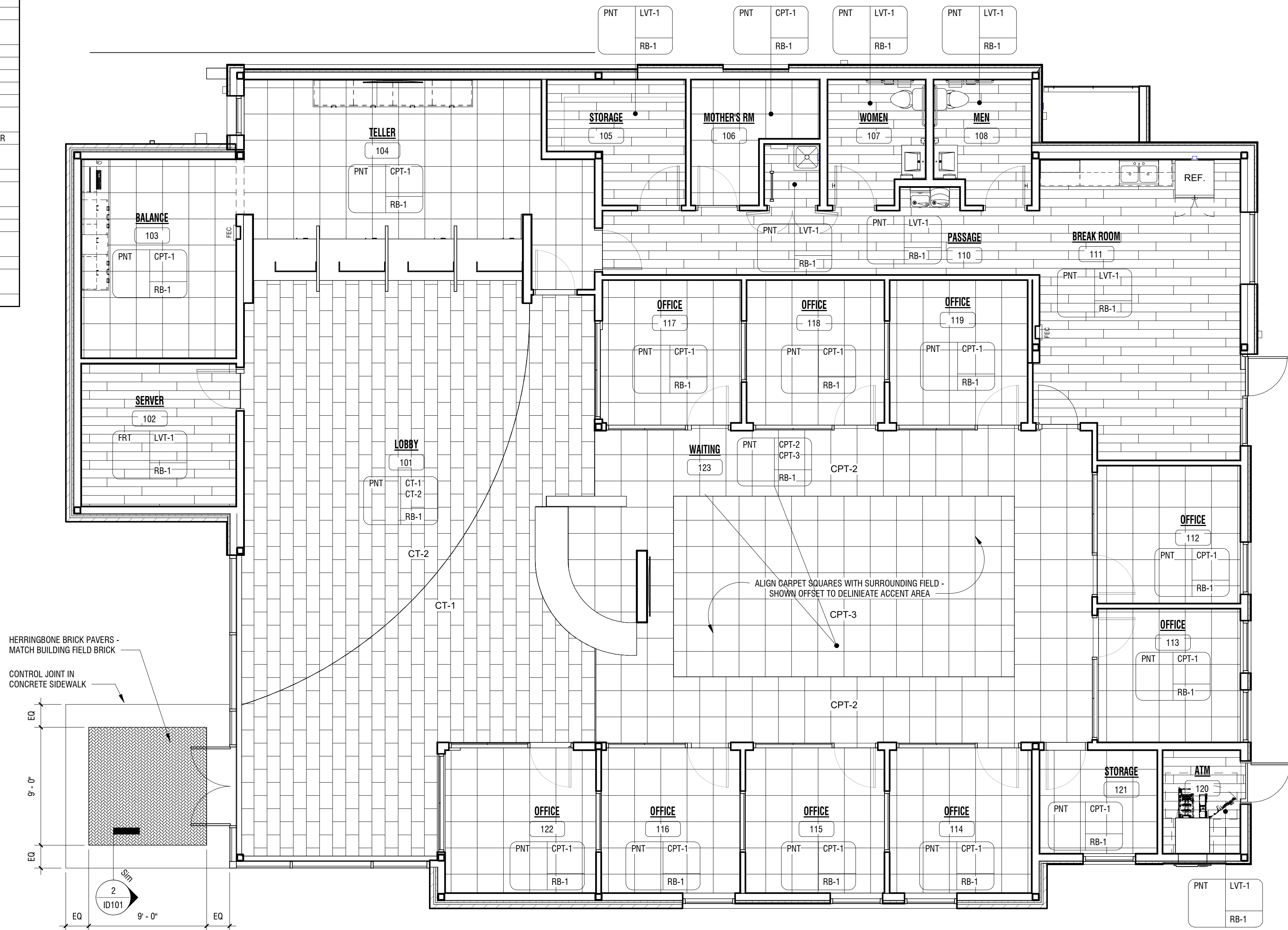
FINISH SYMBOLS LEGEND & ABBREVIATIONS

WALL FINISHES)	FLOOR FINISHES)
(Symbol)	(Symbol)
(Symbol)	(Symbol)

- ACT ACOUSTICAL CEILING TILE
- AFF ABOVE FINISH FLOOR
- AWP ACOUSTICAL WALL PANEL
- CG CORNER GUARD
- CPT CARPET
- CS CULTURED STONE
- CT CERAMIC/PORCELAIN TILE
- EM ENTRY MAT
- EPT EPOXY PAINT
- ETR EXISTING TO REMAIN
- EXP EXPOSED
- GRT GROUT
- GWB GYPSUM WALL BOARD
- HPL HIGH PRESSURE LAMINATE
- PT PAINT
- QTZ QUARTZ
- RB RESILIENT BASE
- RSF RUBBER SPORTS FLOORING
- SC SEALED CONCRETE
- SSR SOLID SURFACING
- ST STAIN (HARDWOOD)
- TS TRANSITION STRIP
- VCT VINYL COMPOSITION TILE
- WC WALL COVERING
- WFL WINDOW FLM
- WPT WALL PROTECTION
- WT WINDOW TREATMENT



2 BRICK PAVER DETAIL
SCALE: 1 1/2" = 1'-0"



1 FIRST FLOOR FINISH PLAN
SCALE: 3/16" = 1'-0"



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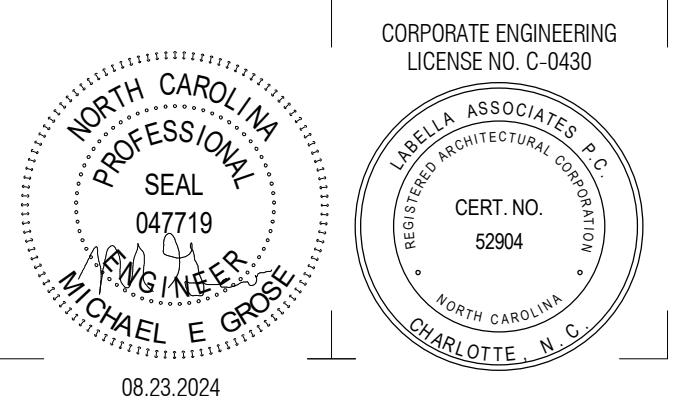
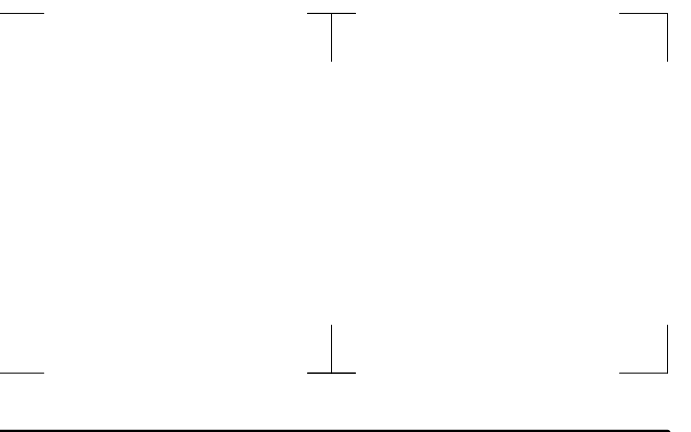


LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:	2230150	
DRAWN BY:	BAW	
REVIEWED BY:	GGA	
ISSUED FOR:	BID SET	
DATE:	08.23.2024	

FIRST FLOOR FINISH PLAN

DRAWING NUMBER:



08.23.2024

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LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: MG / MM
REVIEWED BY: MG

ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NAME:

PLUMBING LEGEND SHEET

DRAWING NUMBER:

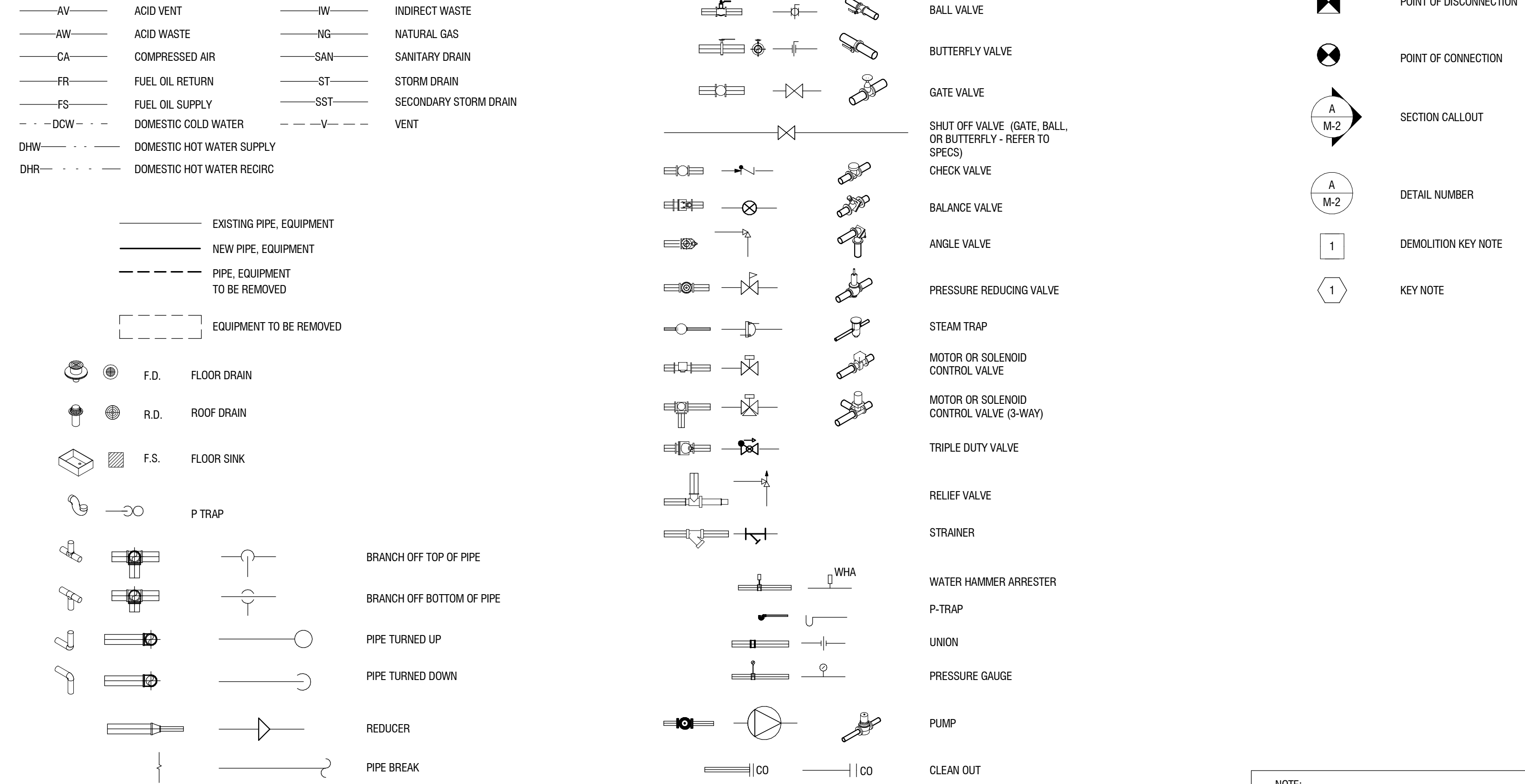
P001

GENERAL NOTES

PLUMBING GENERAL NOTES

- DO NOT SHUT DOWN ANY PLUMBING, FIRE PROTECTION, NATURAL GAS, OR RELATED SYSTEMS WITHOUT BUILDING OWNER'S PRIOR WRITTEN APPROVAL. FOLLOW ALL OWNER REQUIREMENTS AND SHUT DOWN PROCEDURES AS WELL AS ALL REQUIREMENTS OF THIS PROJECT.
- IF REQUIRED, PROVIDE SHUT DOWNS AND TIE-INS DURING OFF HOURS TO AVOID DISRUPTION OF BUILDING SYSTEMS. COORDINATE ALL SHUT DOWN REQUIREMENTS PRIOR TO SUBMITTING BID (INCLUDE ALL REQUIRED DURING OFF HOURS IN BID).
- PROVIDE ALL WORK IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES. OBTAIN ALL REQUIRED PERMITS.
- PROVIDE ALL REQUIRED EXCAVATION, BACKFILL AND COMPACTION FOR ALL UNDERGROUND WORK.
- FIELD VERIFY EXACT LOCATION, DEPTH, COMPOSITION AND CONDITION OF ALL PIPING, VALVES AND SYSTEMS AS REQUIRED FOR WORK OF THE CONTRACT.
- PROVIDE CUTTING, CORING AND PATCHING OF ALL WALLS, SLABS AND DECKS AS REQUIRED FOR WORK SHOWN. COORDINATE ALL WORK WITH OWNER AND GENERAL CONTRACTOR AND ALL TRADES.
- PROVIDE SCHEDULE 40 BLACK STEEL PIPE SLEEVES FOR ALL UNDERGROUND PIPING PASSING THROUGH OR UNDER FOOTINGS, WALLS, FOUNDATION WALLS, SLABS FLOORS AND/OR UNDERGROUND STRUCTURES.
- WHERE PIPING IS LOCATED OVER FOOTINGS AND/OR OTHER UNDERGROUND STRUCTURES, ROLL DOWN AS REQUIRED TO CONNECT TO SYSTEMS NOTED. PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND CONNECTIONS.
- PITCH ALL SANITARY, WASTE, AND STORM PIPING AS FOLLOWS: PIPING SMALLER THAN 3" PITCH AT 2 PERCENT (1/4" PER FOOT) MINIMUM. 3" AND LARGER, PITCH AT 1 PERCENT (1/8" PER FOOT) MINIMUM.
- CONNECT TO SITE PIPING OUTSIDE BUILDING AS SHOWN. PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND CONNECTIONS. FIELD VERIFY EXACT LOCATION, DEPTH AND COMPOSITION OF SITE SERVICES AND COORDINATE ALL WORK WITH SITE CONTRACTOR.
- COORDINATE ALL VENT TERMINATIONS ABOVE ROOF WITH HVAC CONTRACTOR. ALL VENT TERMINATIONS ABOVE ROOF SHALL BE A MINIMUM 10'-0" AWAY FROM ANY HVAC OUTSIDE AIR INTAKE (ROOFTOP UNIT, LOUVER, ETC.).
- PROVIDE SINGLE HOSE BIBB WITH VACUUM BREAKER (HB) UNDER LAVATORY(S) IN ALL TOILET ROOMS WITH FLOOR DRAINS. ONE REQUIRED PER ROOM.
- THE EXISTING PIPING INDICATED ON THESE PLANS SHALL BE VERIFIED IN THE FIELD FOR EXACT LOCATIONS, QUANTITY, AND PIPE SIZES.
- THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMMATIC. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, ETC.
- CONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUTDOWN WITH THE OWNER 5 DAYS IN ADVANCE.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF ALL PLUMBING RELATED ITEMS.
- ALL WORK SHALL BE COORDINATED WITH THE EQUIPMENT VENDORS.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDER SLAB PIPING WITH EXISTING STRUCTURAL FOUNDATIONS. UNDERGROUND UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO ANY WORK BEING PERFORMED. CONTRACTOR SHALL REPAIR OR REPLACE ALL PIPING NOT IN PROPER WORKING ORDER OR DAMAGED DURING INSTALLATION OF THE NEW UNDERSLAB PIPING.
- ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE STATE AND LOCAL CODE REQUIREMENTS AND PER MANUFACTURERS' RECOMMENDATIONS.
- ALL PIPING PENETRATIONS THROUGH NEW, EXISTING WALL, OR FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR.
- THE ENTIRE DOMESTIC WATER SYSTEM (EXISTING/NEW) SHALL BE DISINFECTED IN ACCORDANCE TO THE LOCAL CODE & HEALTH DEPARTMENT REQUIREMENTS.
- THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER STATE AND LOCAL CODE & PER AUTHORITY HAVING JURISDICTION REQUIREMENTS.
- ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
- CONTRACTOR SHALL INSULATE ALL PLUMBING PIPING PER ENERGY CONSERVATION CODE REQUIREMENTS.

DRAWING SYMBOLS



NOTE:
NOT ALL SYMBOLS, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/ OR EXCLUSIONS OF ANY PARTICULAR ITEM FROM THIS PROJECT.

APPLICABLE CODES

- 2018 NORTH CAROLINA BUILDING CODE
- 2018 NORTH CAROLINA MECHANICAL CODE
- 2018 NORTH CAROLINA FIRE CODE
- 2018 NORTH CAROLINA PLUMBING CODE
- 2018 NORTH CAROLINA ENERGY CONSERVATION CONSTRUCTION CODE
- ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1
- 2017 NATIONAL ELECTRIC CODE
- 2016 NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

EQUIPMENT DESIGNATIONS

BT BATH TUB	MS MOP SINK
CO CLEANOUT	NF NON-FREEZE HOSE BIB
CS CUP SINK	P PUMP
CV CONTROL VALVE	OS OIL SEPARATOR
DF DRINKING FOUNTAIN	S SINK
DECO DECK PLATE CLEANOUT	SA SHOCK ABSORBER (WATER HAMMER ARRESTOR)
DWH DOMESTIC WATER HEATER	SS SERVICE SINK
DWP DOMESTIC WATER PUMP	SH SHOWER
EJ EXPANSION JOINT	SP SUMP PUMP
ET EXPANSION TANK	SRV SAFETY RELIEF VALVE
EW ELECTRIC WATER COOLER	SWP SEWAGE PUMP
EWS EMERGENCY EYEWASH/SHOWER	TK WATER TANK
F FILTER	UR URINAL
HB HOSE BIBB	WC WATER CLOSET
KS KITCHEN SINK	WCO WALL CLEANOUT
LAV LAVATORY	WS WATER SOFTENER
M METER	

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

ABBREVIATIONS

% PERCENT	FA FREE AREA	NIC NOT IN CONTRACT
AC ALTERNATING CURRENT	FB FINISHED FLOOR	NPT NORMALLY OPEN NATIONAL PIPE TREAD
ADJ ADJACENT	FLA FULL LOAD AMPS	NRS NON-RISING STEM
AFF ABOVE FINISHED FLOOR	FFM FEET PER MINUTE	NTS NOT TO SCALE
AFG ABOVE FINISHED GRADE	FFS FEET PER SECOND	OC ON CENTER
ALT ALTERNATE	FOOT FOOT OR FEET	OD OUTSIDE SCREW AND YOKE
AMB AMBIENT	FUT FUTURE	OSKY OUTSIDE SCREW AND YOKE
AMP AMPERE (AMP/AMPS)	GA GAGE OR GAUGE	PC PLUMBING CONTRACTOR
ANSI AMERICAN NATIONAL STANDARD INSTITUTE	GAL GALLONS	PLBG PLUMBING
APPROX APPROXIMATE (LY)	GC GENERAL CONTRACTOR	PH PHASE (ELECTRICAL)
AVG AVERAGE	GPM GALLONS PER MINUTE	PRESS PRESSURE
BFP BACKFLOW PREVENTER	GPD GALLONS PER DAY	PSF POUNDS PER SQUARE FOOT
BHP BRAKE HORSEPOWER	GPH GALLONS PER HOUR	PSI POUNDS PER SQUARE INCH
BLDG BUILDING	HD HEAD	PSIG PSI GAUGE
BO BOTTOM OF BASEMENT	HG MERCURY	PRV PRESSURE REDUCING VALVE
BSMT BASEMENT	HORIZ HORIZONTAL	RCVR RECEIVER
BTU BRITISH THERMAL UNIT	HP HORSEPOWER	RECIRC RECIRCULATE
BV BALANCING VALVE	HPC HIGH PRESSURE CONDENSATE	RHW HOT WATER RE-CIRCULATION
CAP CAPACITY	HPS HIGH PRESSURE STEAM	RO ROUGH OPENING
CIP CAST IRON PIPE	CLG CEILING	RO ROUGH OPENING
CLR CLEAR	HR HOUR	RPA REDUCED-PRESSURE DETECTOR ASSY.
CO CLEANOUT or CARBON MONOXIDE	HVAC HEATING, VENTILATING, AND AIR CONDITIONING	RPZ REDUCED-PRESSURE ZONE
COL COLUMN	HZ FREQUENCY	SCH STEAM CAPTURE HOOD
CONN CONNECTION	ID INCH DIAMETER, INSIDE	SPEC SPECIFICATION
CONC CONCRETE	INSUL INSULATION	SRLY SUPPLY
CONT CONTINUOUS	INT INTERIOR	SQ SQUARE
CU FT CUBIC FEET	IPS IRON PIPE SIZE	SQ FT SQUARE FOOT (FEET)
CV VALVE FLOW COEFFICIENT	INV INVERT	SO IN SQUARE INCH (INCHES)
DCDA DOUBLE CHECK DETECTOR ASSEMBLY	KW KILOWATT	STD STANDARD
DOY DETECTOR CHECK VALVE	KWH KILOWATT HOUR	SUCT SUCTION
DCW DOMESTIC COLD WATER	LBS POUNDS	TSTAT THERMOSTAT
DEMO DEMOLISH or DEMOLITION	LF LINEAR FEET	TBD TO BE DETERMINED
DHW DOMESTIC HOT WATER	LG LENGTH	TC TEMPERATURE CONTROL CONTRACTOR
DIA DIAMETER	LOC LOCATION	TD TEMPERATURE DIFFERENCE
DIP DUCTILE IRON PIPE	LPC LOW PRESSURE CONDENSATE	TEMP TEMPERATURE
DWH DOMESTIC WATER HEATER	LPS LOW PRESSURE STEAM	TMV THERMOSTATIC MIXING VALVE
DWV DRAIN, WASTE, & VENT	LRA LOCKED ROTOR AMPS	TO TOP OF
DWG DRAWING	LWT LEAVING WATER TEMPERATURE	TYP TYPICAL
(E) EXISTING	MATL MATERIAL	V VOLT
ENGR ENGINEER	MAX MAXIMUM	VAC VACUUM
EQ EQUAL	MBH BTU PER HOUR (THOUSAND)	VAR VARIABLE
EST ESTIMATED	MECH MECHANICAL	VEL VELOCITY
ETR EXISTING TO REMAIN	MG MANUFACTURER	VF VERIFY IN FIELD
EVH ELECTRIC WATER HEATER	MIN MINIMUM	VOL VOLUME
EWT ENTERING WATER TEMPERATURE	MISC MISCELLANEOUS	W WASTE
EX EXISTING	MOCP MAXIMUM OVERCURRENT PROTECTION	W/ WITH
EXIST EXISTING	MPC MEDIUM PRESSURE CONDENSATE	W/O WITH OUT
EXP EXPANSION	MPS MEDIUM PRESSURE STEAM	WCO WALL CLEANOUT
EXT EXTERIOR	MTG MOUNTING	WHA WATER HAMMER ARRESTOR
'F DEGREES FAHRENHEIT	N/A NOT APPLICABLE	WM WATER METER
	NC NORMALLY CLOSED	WPD WATER PRESSURE DROP
		WT WEIGHT
		WWP WORKING WATER PRESSURE

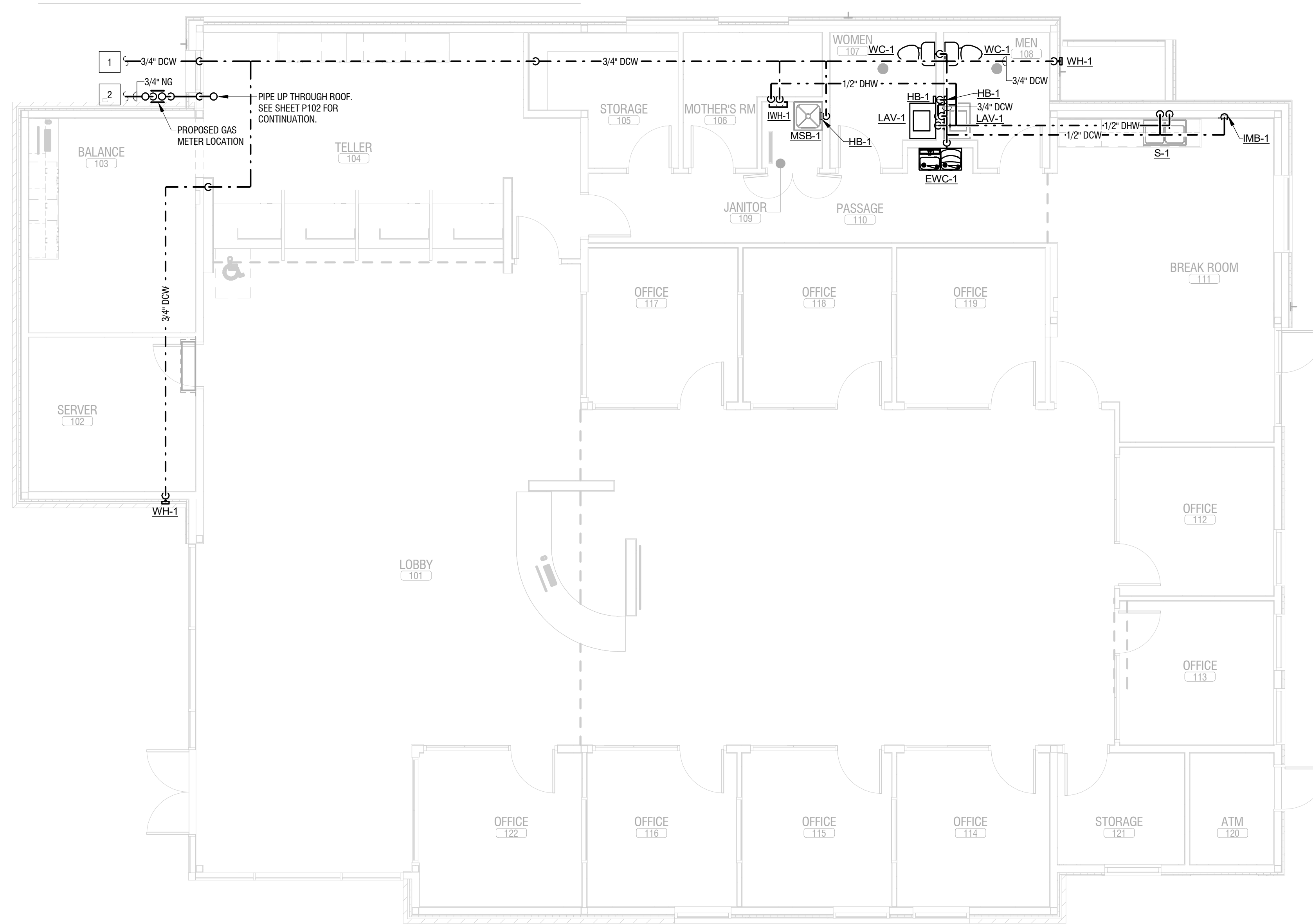
NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

GENERAL NOTES:

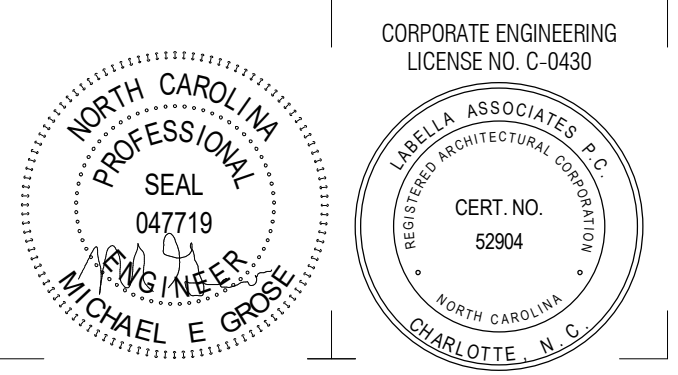
- SEE SHEET P601 FOR FIXTURE SCHEDULES & CONNECTION SIZES.
- ALL WATER SUPPLY LINE IN AN EXTERIOR WALL SHALL BE RUN ON INTERIOR SIDE OF WALL INSULATION.
- ALL DOMESTIC PIPING SHALL BE ROUTED IN CONCEALED LOCATIONS, WHERE POSSIBLE.
- BEFORE BEGINNING WORK, VERIFY LOCATION OF ALL POINTS OF CONNECTION AND PIPE SIZES. NOTIFY ENGINEER IN ANY DISCREPANCIES.

KEY NOTES:

- SEE UTILITY PLAN FOR CONTINUATION OF DOMESTIC SERVICE MAIN ON SITE. COORDINATE SIZE, LOCATION AND ALL CONNECTION REQUIREMENTS, INCLUDING BACKFLOW PREVENTION WITH CIVIL.
- SEE UTILITY PLAN FOR CONTINUATION OF NATURAL GAS MAIN ON SITE. COORDINATE SIZE, LOCATION AND ALL CONNECTION REQUIREMENTS, INCLUDING GAS METER SIZING WITH UTILITY AND CIVIL.



1 FIRST FLOOR DOMESTIC WATER PLAN
P101 3/16" = 1'-0"



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LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: MG / MM

REVIEWED BY: MG

ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NAME:

FIRST FLOOR DOMESTIC WATER PLAN

DRAWING NUMBER:

P101

GAS PIPING NOTES:

1. WORK TO INCLUDE PIPING FROM GAS METER TO GAS FIRED EQUIPMENT. PLUMBING CONTRACTOR TO PROVIDE SHUT-OFF VALVE, DIRT TRAP AND PRESSURE REGULATOR AT THE GAS FIRED EQUIPMENT.
2. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODE REQUIREMENTS, AND THE PROVISIONS OF NFPA-54 AND NFPA-58.
3. THE CONTRACTOR SHALL SUPPLY ALL PERMITS, FEES AND LICENSES REQUIRED FOR THE WORK, AND FOR ALL INSPECTIONS REQUIRED.
4. PIPE 3" AND SMALLER SHALL BE SCHEDULE 40 STEEL WITH THREADED MALLEABLE FITTINGS.
5. VALVES SHALL BE GAS COCKS AND BE MANUFACTURED BY NIBCO. VALVES SHALL MEET TABLE 409.1.1 OF THE NCFGC AND BE RATED UP TO 2 PSIG PRESSURE PER TABLE.
6. ALL PIPING EXPOSED TO THE OUTDOORS OR RUN IN UNCONDITIONED SPACES SHALL BE PAINTED WITH TWO COATS OF RUST RESISTANT ENAMEL.
7. PRESSURE TEST PORTS MUST BE PROVIDED AT ALL MP REGULATORS IN ACCORDANCE TO NCFGC 410.2.
8. ALL SUPPORT OF GAS PIPING MUST COMPLY WITH NCFGC T.415.1.

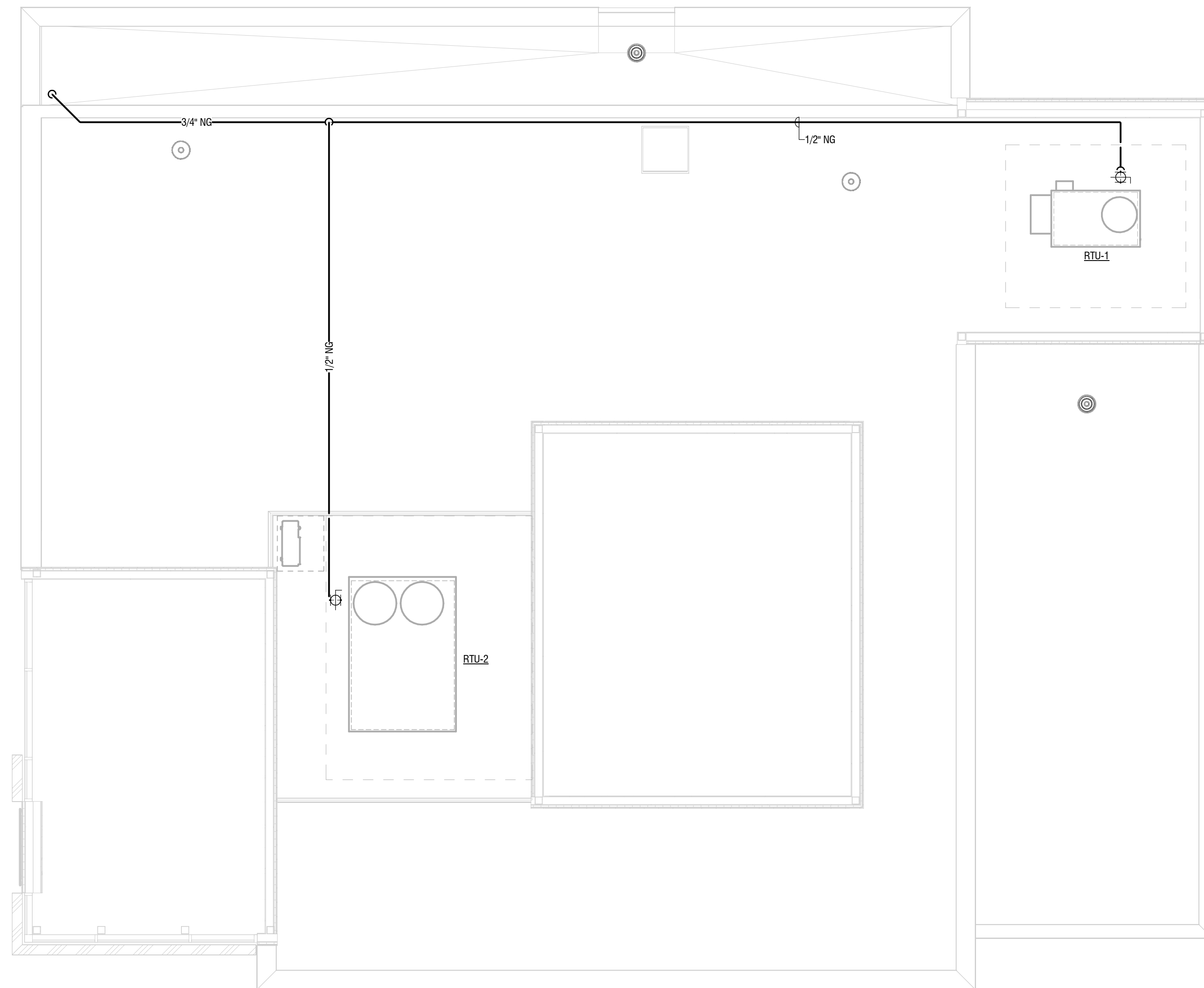
GAS LOAD SUMMARY

LOW PRESSURE PRESSURE DROP: 0.5 IN. W.C. STEEL (SCHD. 40) LENGTH: 131 FT FITTING FACTOR: 10.4 EQUIVALENT TOTAL LENGTH: 142 FT CAPACITY OF PIPES IN MBH	HIGH PRESSURE ATMOS. PRESSURE: 14.6954 PSIA P1: 2 PSIG P2: 1 PSIG STEEL (SCHD. 40) LENGTH: 131 FT FITTING FACTOR: 10.4 EQUIVALENT TOTAL LENGTH: 142 FT CAPACITY OF PIPES IN MBH
3/4" 40	3/4" 83
1" 157	1/2" 372
1-1/4" 322	3/4" 751
1-1/2" 482	

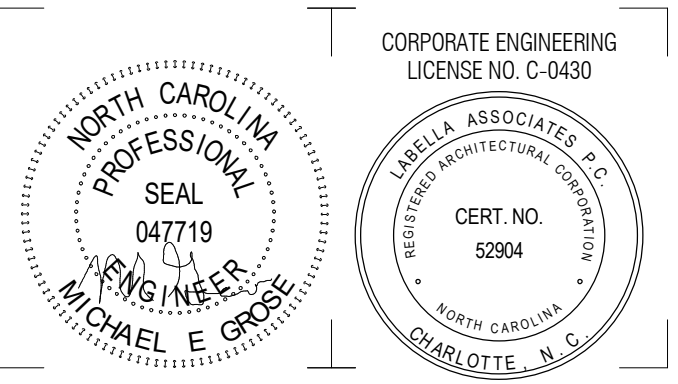
NOTE:

- GAS PIPING IS SIZED FOR 2PSI NATURAL GAS. CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR LOW PRESSURE PIPING IF HIGH PRESSURE IS NOT AVAILABLE. CONTRACTOR SHALL VERIFY THE AVAILABILITY OF 2PSI SERVICE BEFORE ANY WORK HAS BEGAN AND NOTIFY ARCHITECT IN WRITING OF AVAILABLE SERVICE.
- PROVIDE GAS REGULATOR AT EACH PIECE OF GAS-FIRED EQUIPMENT TO PROVIDE PRESSURE TO UNIT AS REQUIRED BY MANUFACTURER.

EQUIP. DESIG.	FUEL INPUT
RTU-1	100.0 MBH
RTU-2	350.0 MBH
TOTAL	450.0 MBH



1 ROOF GAS PIPING PLAN
P102 3/16" = 1'-0"



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9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: MG / MM

REVIEWED BY: MG

ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NAME:

ROOF GAS PIPING PLAN

DRAWING NUMBER:

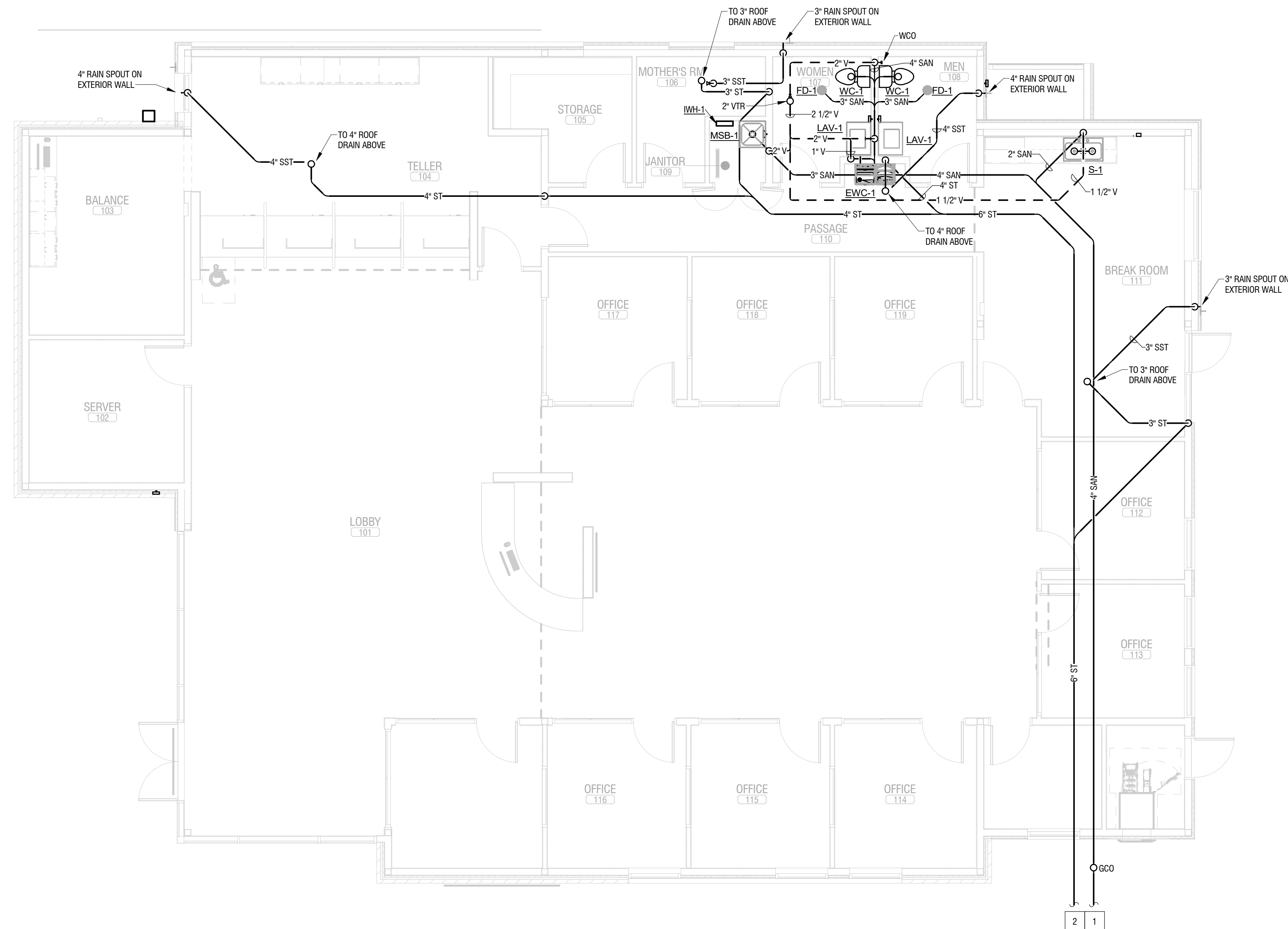
P102

GENERAL NOTES:

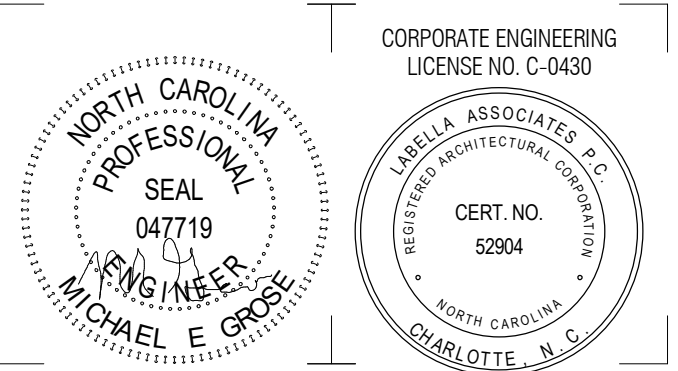
- SEE SHEET P601 FOR FIXTURE SCHEDULES & CONNECTION SIZES.
- MINIMUM SIZE FOR SANITARY WASTE AND VENT PIPING SHALL BE 1-1/2". PROVIDE MINIMUM 2" SANITARY BELOW SLAB.
- ALL SANITARY VENT PIPING SHALL BE RUN AS HIGH AS POSSIBLE.
- BEFORE BEGINNING WORK, VERIFY LOCATIONS OF ALL POINTS OF CONNECTION, PIPE SIZES, AND INVERTS. NOTIFY ENGINEER OF ANY DISCREPANCIES.

KEY NOTES:

- SEE UTILITY PLAN FOR CONTINUATION OF SANITARY SEWER ON SITE. COORDINATE INVERT ELEVATION WITH SITE UTILITY CONTRACTOR.
- SEE UTILITY PLAN FOR CONTINUATION OF STORM WATER ON SITE. COORDINATE INVERT ELEVATION WITH SITE UTILITY CONTRACTOR.



1 FIRST FLOOR SANITARY/WASTE PLAN
P201 3/16" = 1'-0"



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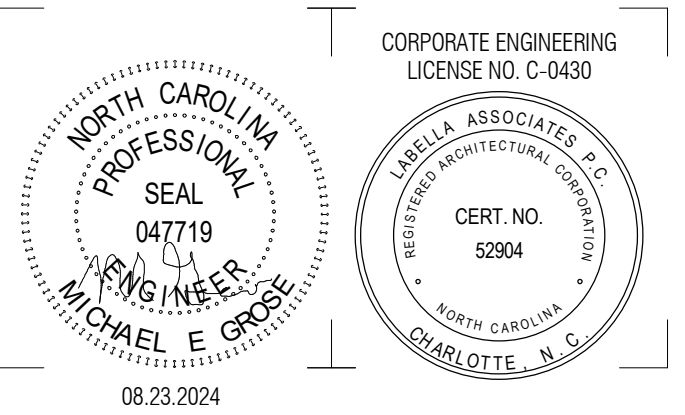
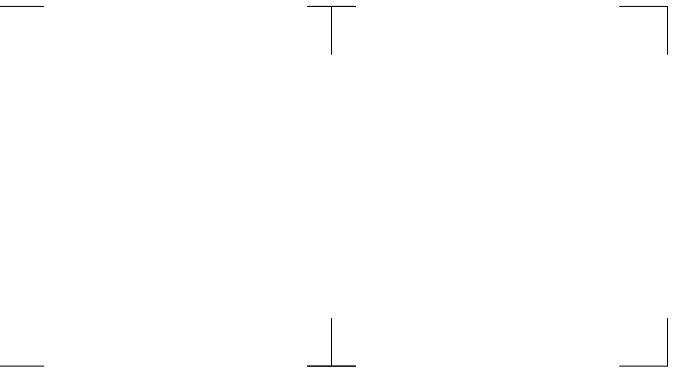
DATE: 08.23.2024

DRAWING NAME:

**FIRST FLOOR
SANITARY/WASTE PLAN**

DRAWING NUMBER:

P201



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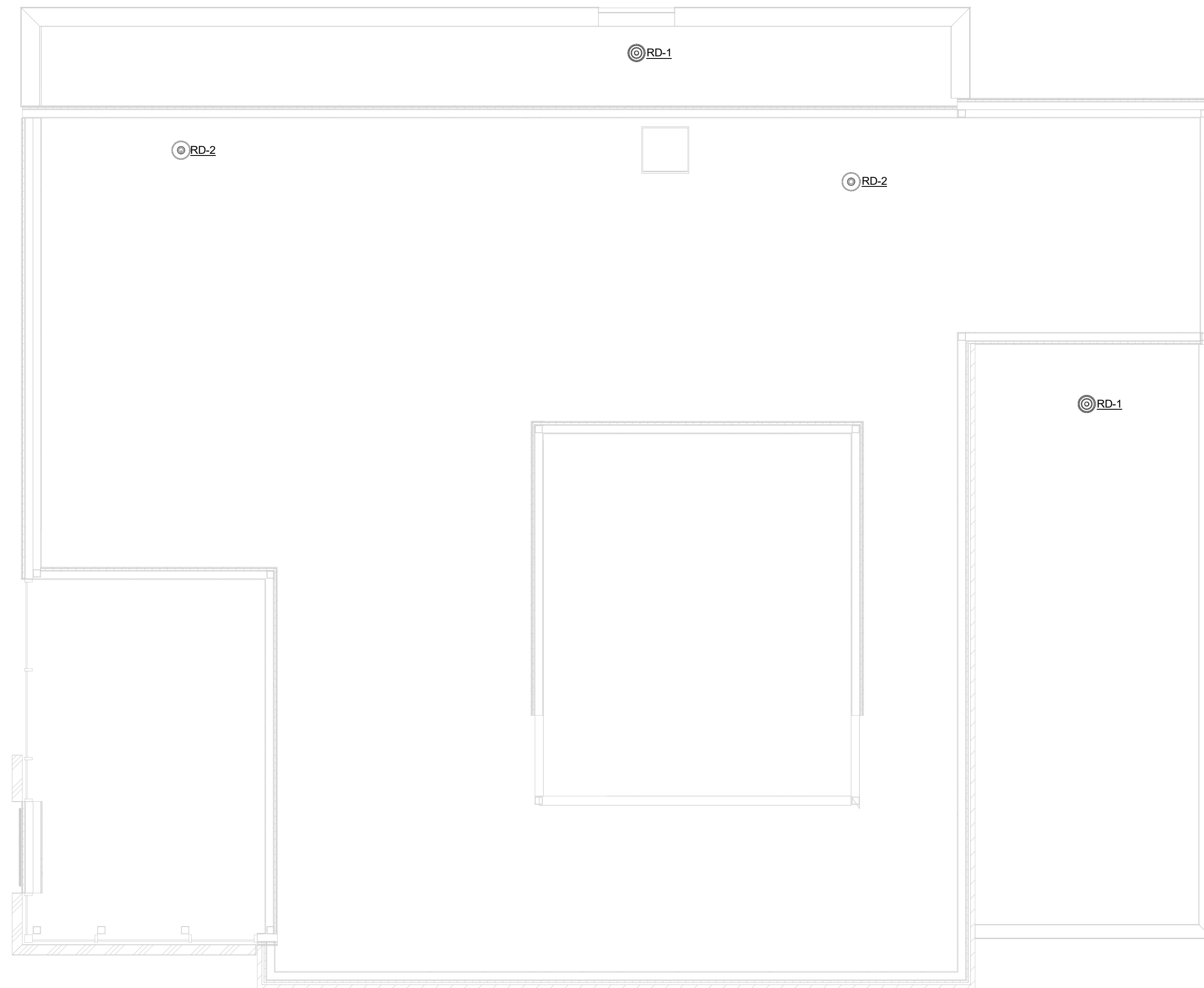
DATE: 08.23.2024

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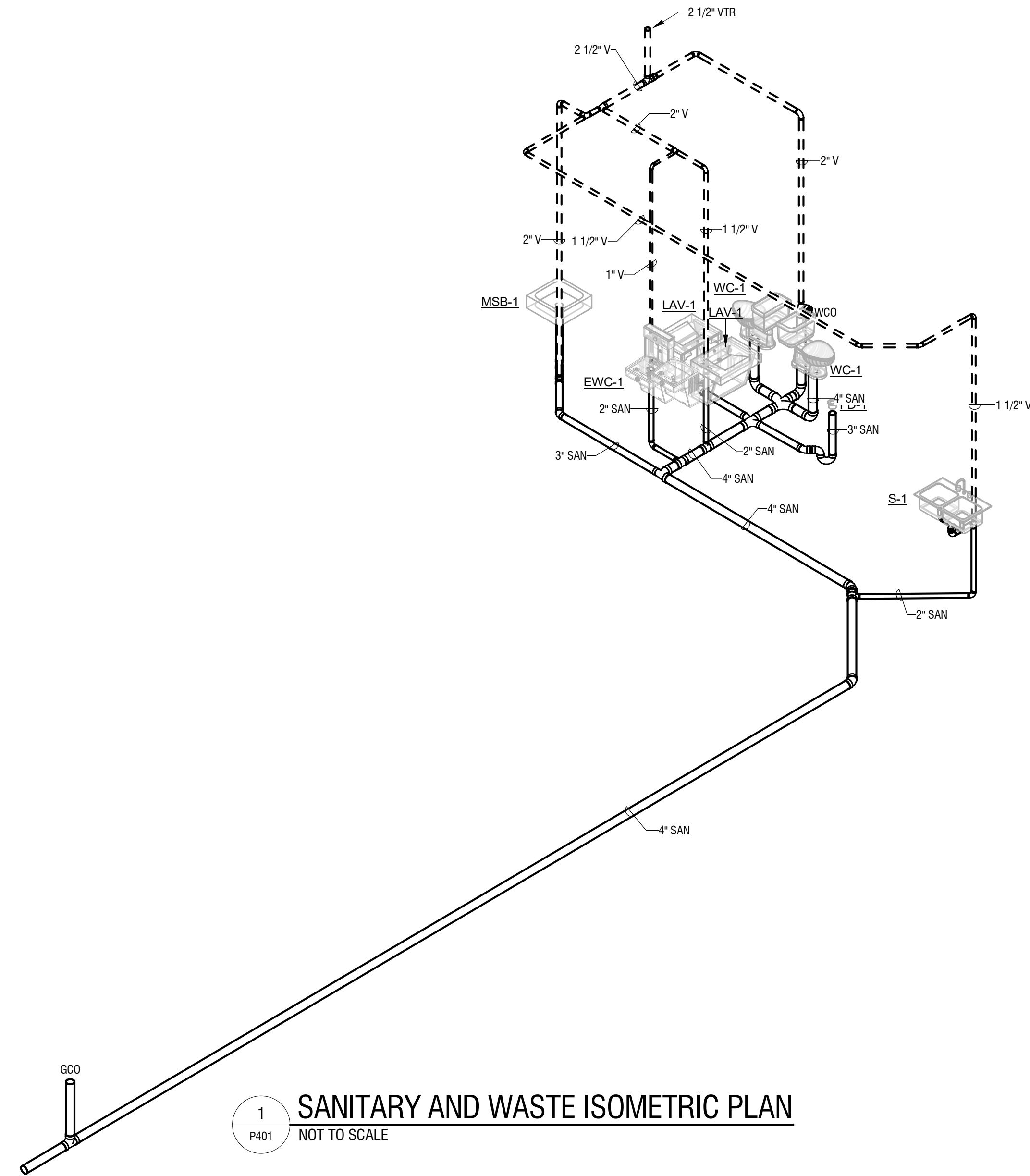
ROOF SANITARY/WASTE PLAN

DRAWING NUMBER:

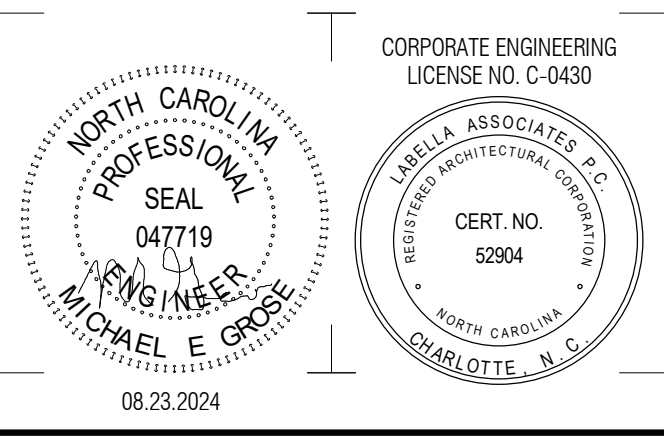
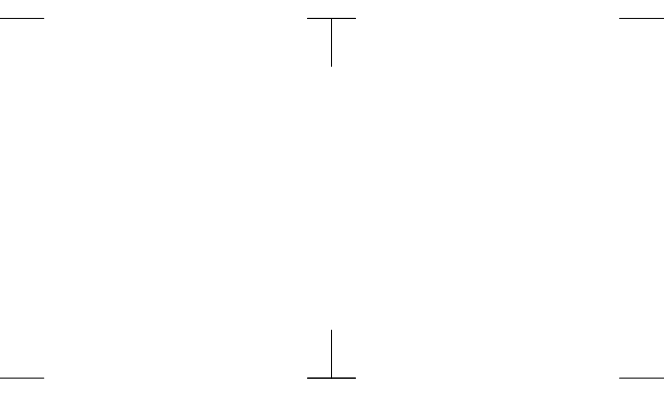
P202



1 ROOF SANITARY/WASTE PLAN
P202 3/16" = 1'-0"



1 SANITARY AND WASTE ISOMETRIC PLAN
P401 NOT TO SCALE



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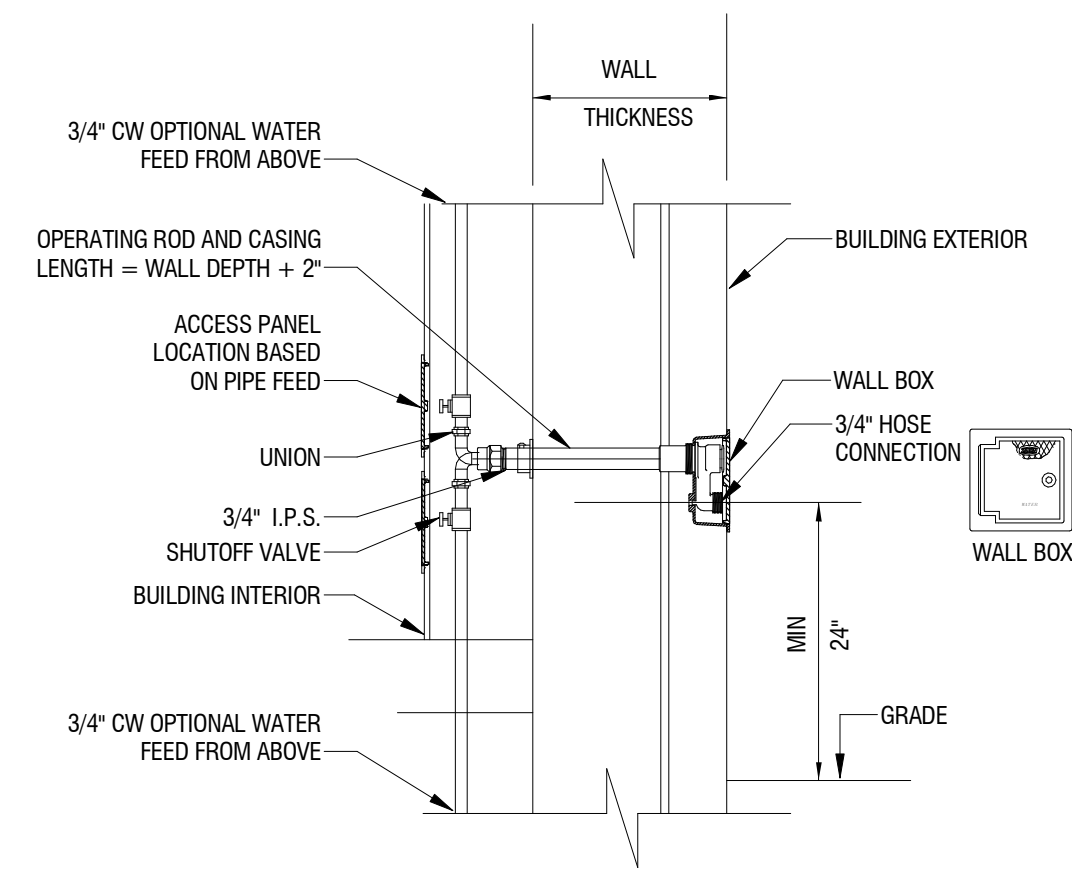
LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		MG / MM
REVIEWED BY:		MG
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DATE:		08.23.2024
DRAWING NAME:		

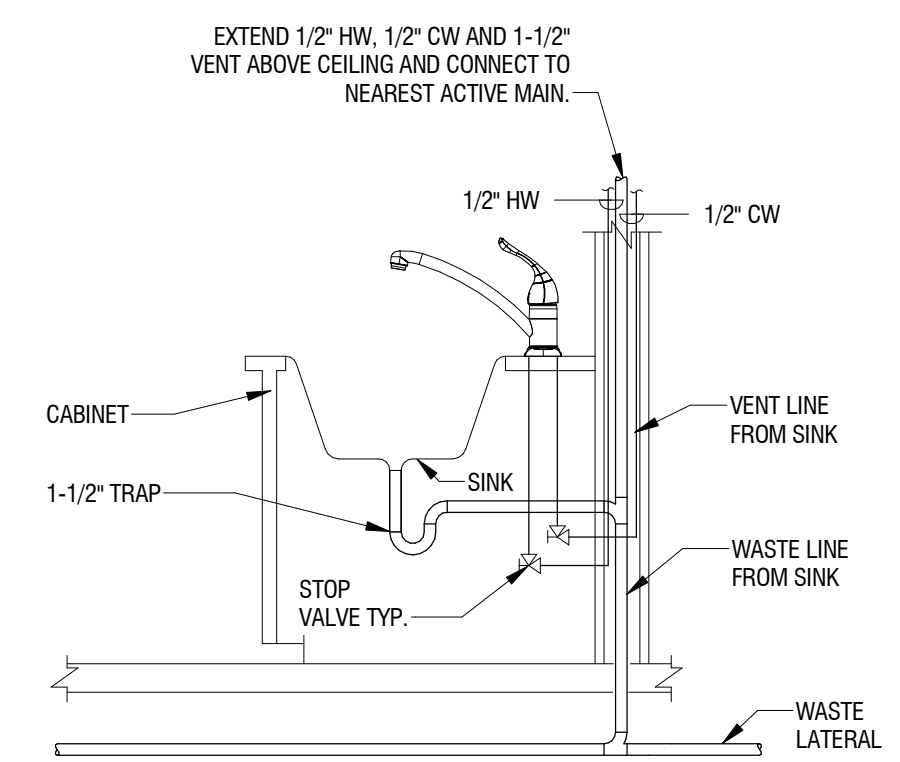
**PLUMBING
ENLARGED/ISOMETRIC
PLANS**

DRAWING NUMBER:

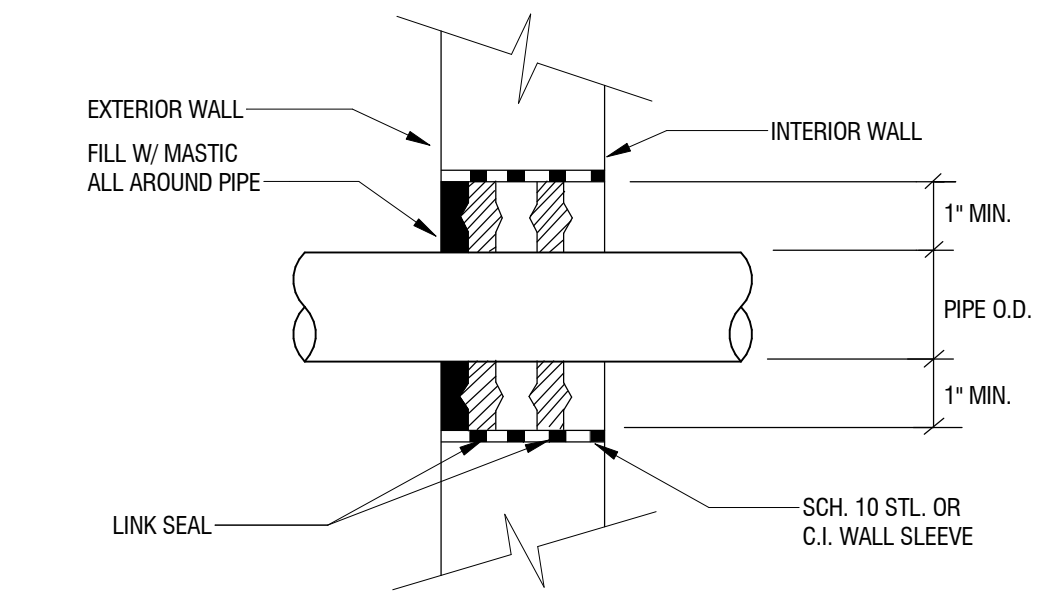
P401



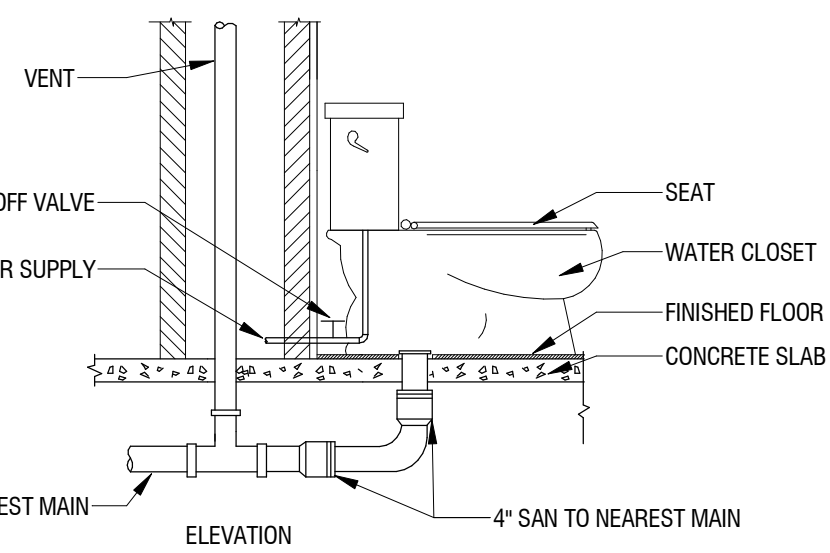
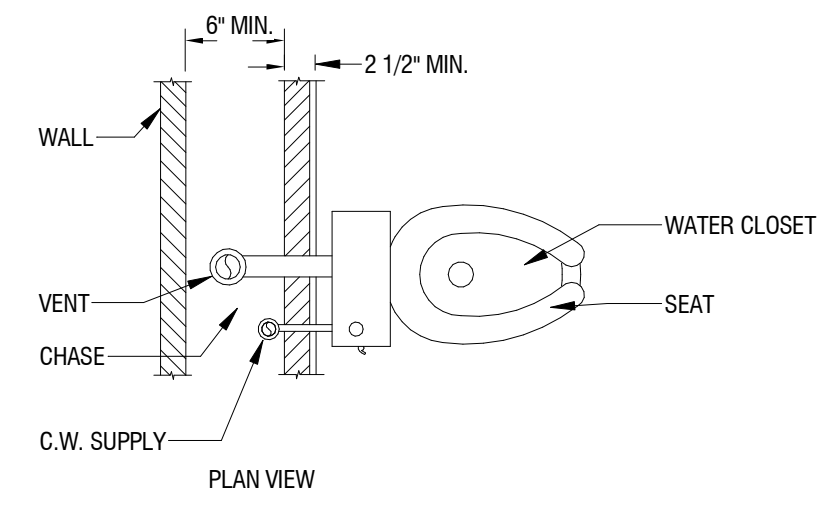
9 PLB - WALL HYDRANT NON-FREZE
P501 NOT TO SCALE



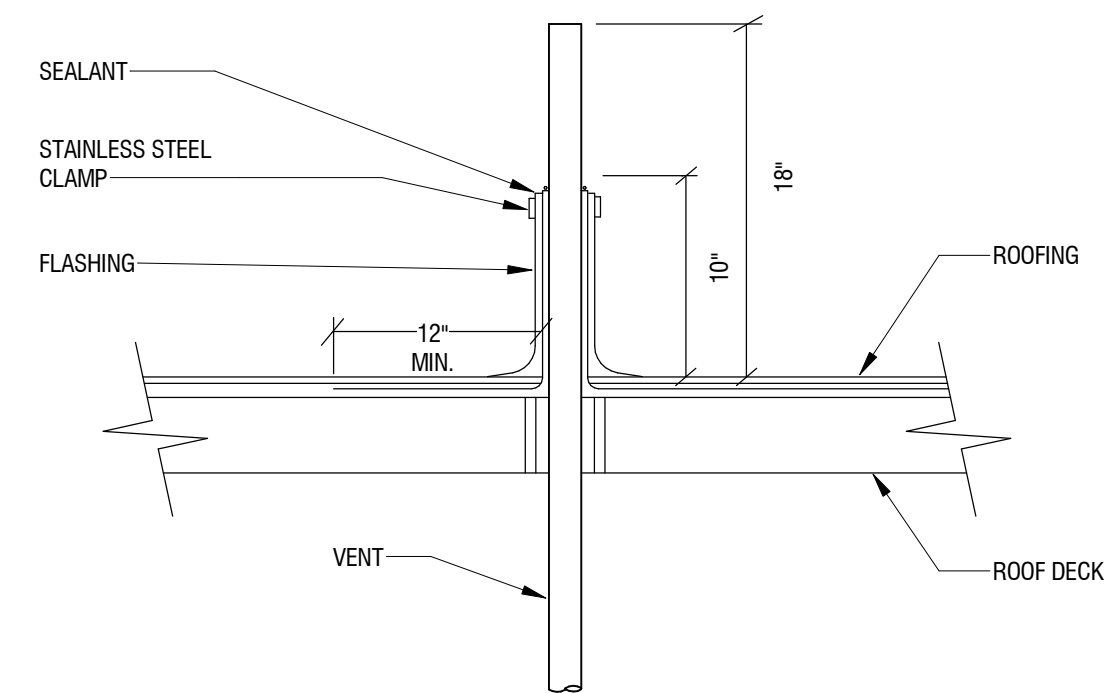
6 PLB - LAV - LAVATORY DETAIL
P501 NOT TO SCALE



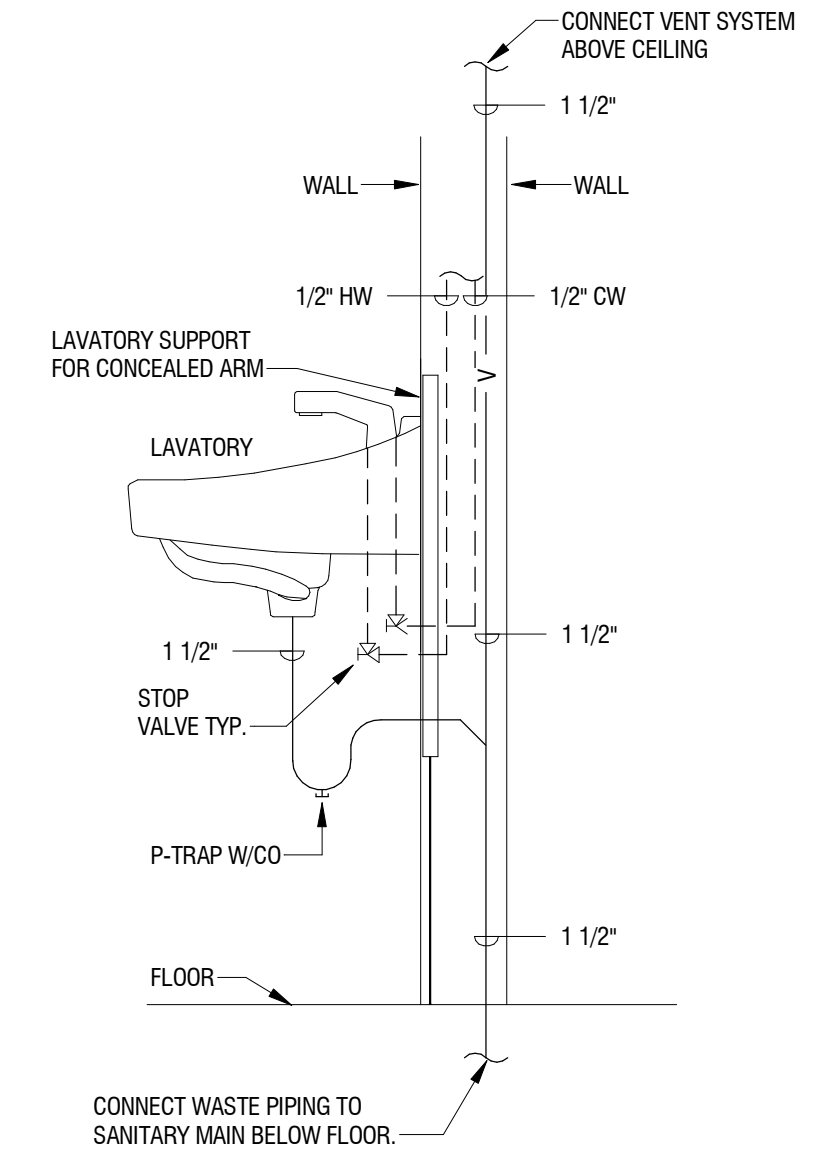
3 PLB - EXTERIOR/FOUNDATION WALL SLEEVE DETAIL
P501 NOT TO SCALE



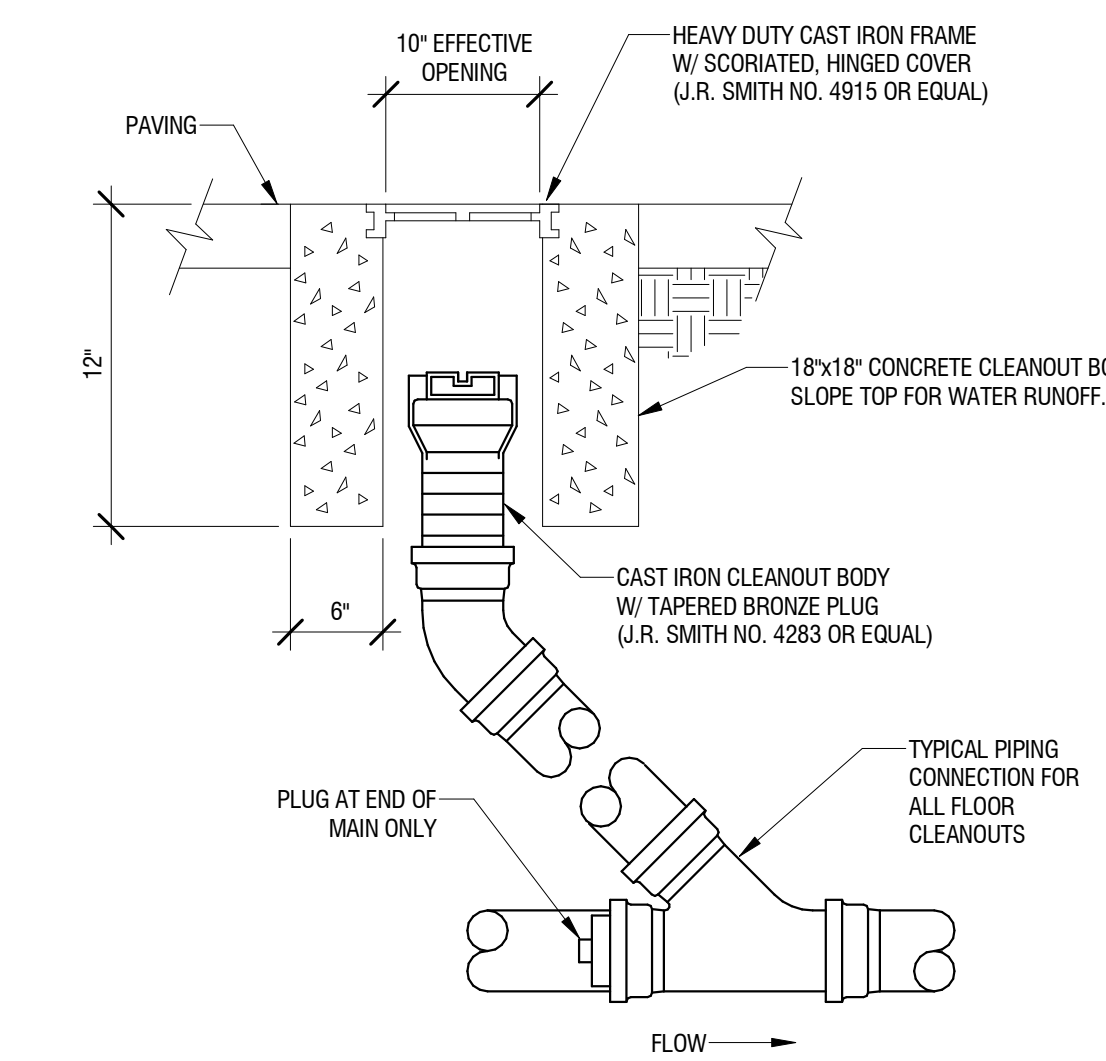
11 PLB - WATER CLOSET - FLR MTD- TANK DETAIL
P501 NOT TO SCALE



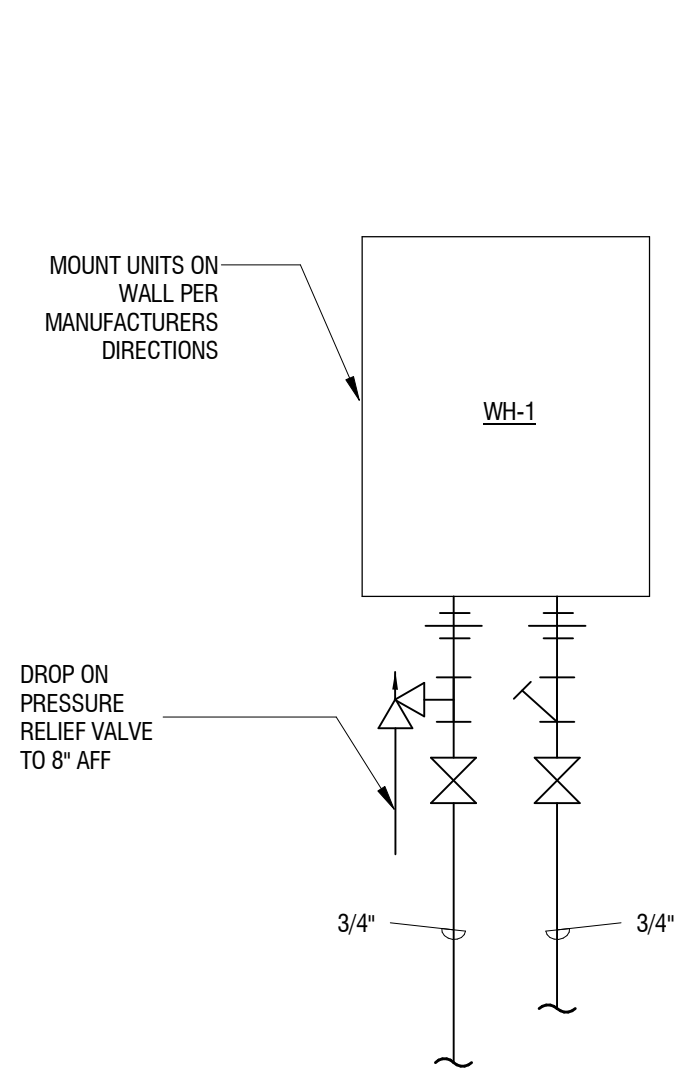
8 PLB - VENT THROUGH ROOF
P501 NOT TO SCALE



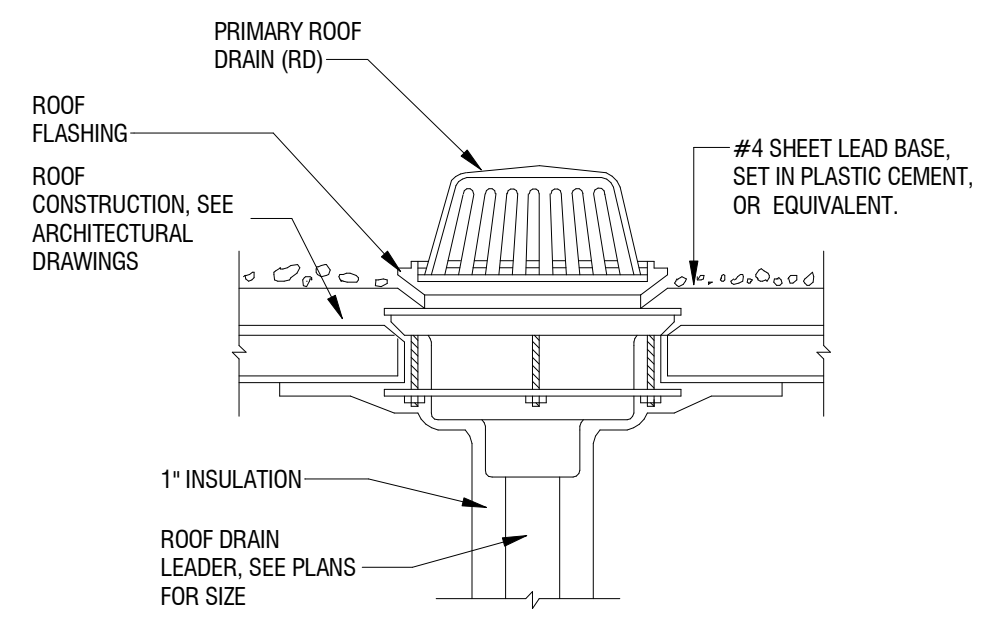
5 PLB - LAV - W/ HW & CW SUPPLY DETAIL
P501 NOT TO SCALE



2 PLB - CO - EXTERIOR CLEANOUT DETAIL
P501 NOT TO SCALE

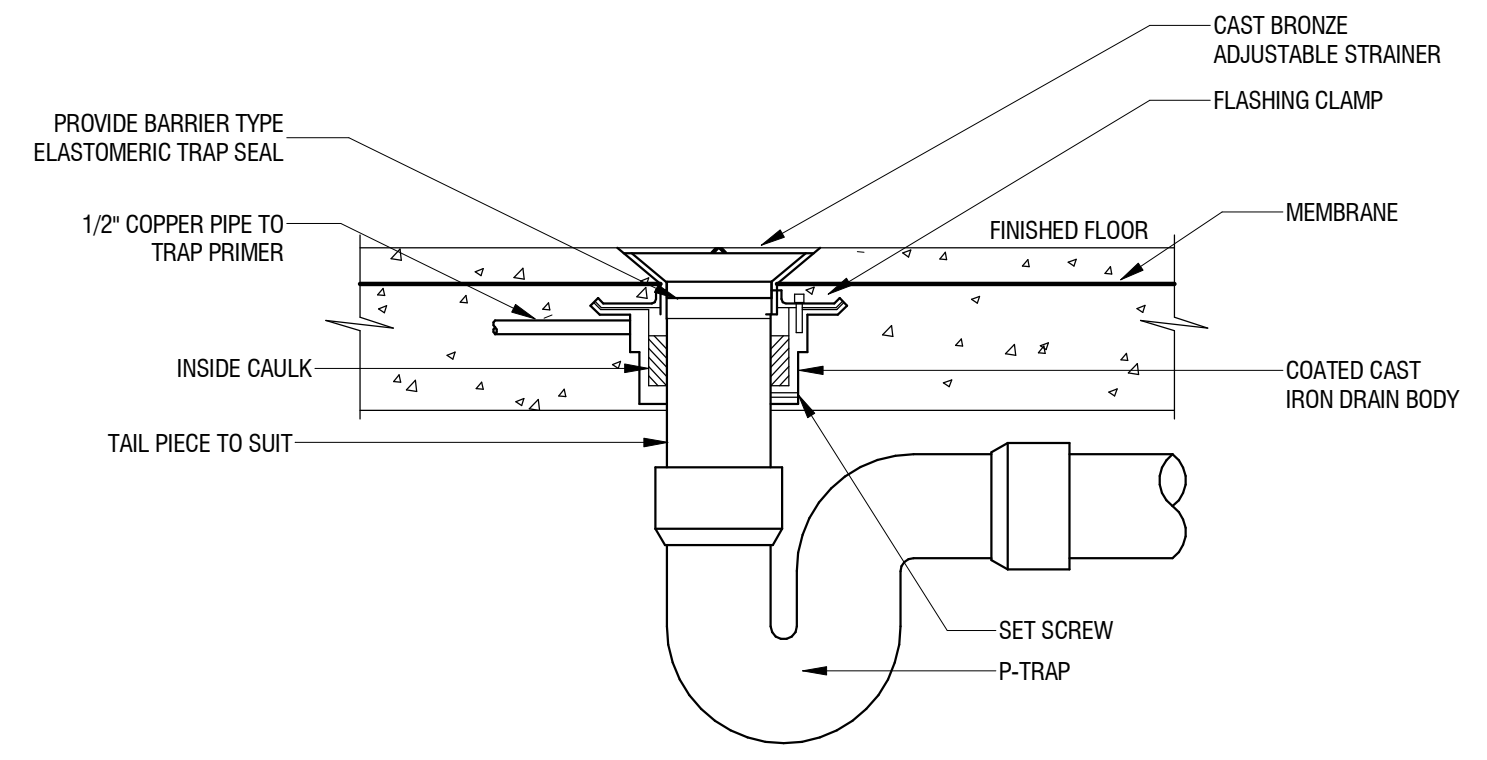


10 PLB - TANKLESS WATER HEATER DETAIL
P501 NOT TO SCALE

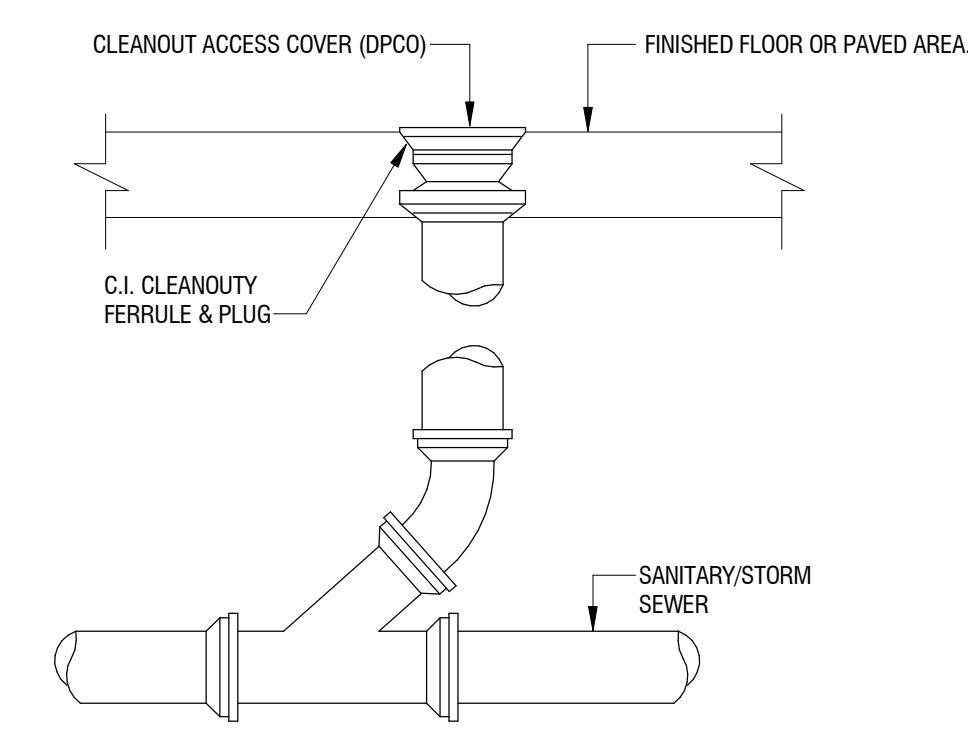


7 PLB - RD - PRIMARY ROOF DRAIN DETAIL
P501 NOT TO SCALE

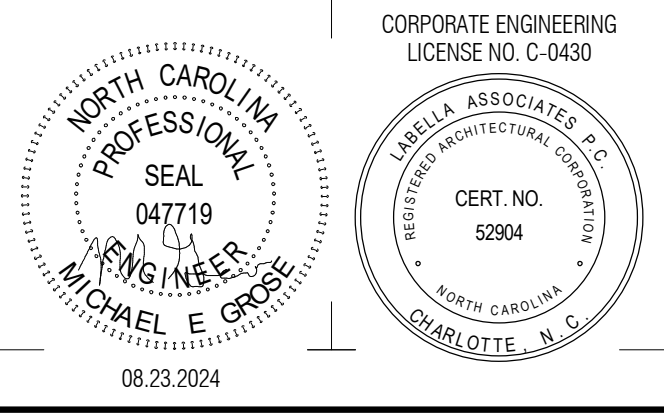
- NOTES:**
1. LOCATE ROOF DRAINS AT LOW POINTS OF ROOF, AS SHOWN ON PLAN.
 2. SET ROOF DRAIN AND SECURE IN PLACE FOR FINAL ROOF FLASHING TO PROVIDE A WATERTIGHT SEAL BY ROOFING CONTRACTOR.
 3. ROOFING CONTRACTOR MAY USE AN ALTERNATE FLASHING ARRANGEMENT PROVIDED IT HAS BEEN SUBMITTED TO AND APPROVED BY THE ARCHITECT.
 4. INSULATE DRAIN BODY AND RAIN LEADER PIPING WITH CLOSE CELL FLEXIBLE ELASTOMETRIC INSULATION.



4 PLB - FD - FLOOR DRAIN DETAIL
P501 NOT TO SCALE



1 PLB - CO - DECKPLATE CLEANOUT
P501 NOT TO SCALE



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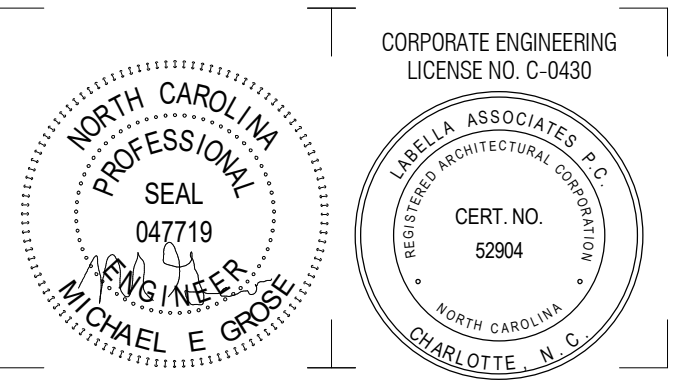
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DRAWING NAME:		

PLUMBING DETAILS

P501

PLUMBING FIXTURE SCHEDULE											NOTES
MARK	TRIM	COLD	HOT	SAN/W	VENT	SUPPORT	ADA	MANUFACTURER	MODEL		
EVC-1	-	1/2"	-	1-1/2"	1-1/2"	WALL	YES	ELKAY	LZSTL8WSLK		BI-LEVEL, BOTTLE FILLER, NON-FILTERED, 8GPH OF 50°F DRINKING WATER, 115v/1Ph, 5A, 370W
FD-1	-	-	-	3"	2"	FLOOR	-	ZURN	EZ1-5		5" ROUND TOP, NICKEL BRONZE TOP, PVC OUTLET, PROVIDE TRAPE SEAL
HB-1	-	3/4"	-	-	-	WALL	-	WOODFORD	26		CHROME FINISH, BACKFLOW PROTECTED
IMB-1	-	1/2"	-	-	-	WALL	-	IPS	MIB1DAB		LEAD FREE, QUARTER TURN VALVE, WHITE POWDER COATED FINISH
LAV-1	AMERICAN STANDARD 775B.105	1/2"	1/2"	1-1/2"	1-1/2"	COUNTER	YES	TOTO	LT221		0.5GPM SENSOR OPERATED BATTERY POWERED FAUCET, UNDERCOUNTER, WHITE, VITREOUS CHINA
MSB-1	SERVICE FAUCET 830-AA	1/2"	1/2"	3"	2"	FLOOR MOUNT	-	FIAT	MSB 2424		MOLDED STONE, PROVIDE WITH HOSE AND HOSE BRACKET (832-AA), MOP HANGER (889-CC), AND STAINLESS STEEL BUMPERGUARD (E-88-AA)
RD-1	-	-	-	3"	-	ROOF	-	ZURN	FROET 100C3		BI-FUNCTIONAL DEEP SLUMP DUAL OUTLET ROOF DRAIN WITH DOME
RD-2	-	-	-	4"	-	ROOF	-	ZURN	FROET 100C4		BI-FUNCTIONAL DEEP SLUMP DUAL OUTLET ROOF DRAIN WITH DOME
S-1	DELTA B1310LF	1/2"	1/2"	1-1/2"	1-1/2"	DROP-IN	YES	ELKAY	LWDB332264		33"x22"x8" DOUBLE BOWL, 22GA STAINLESS STEEL, SATIN FINISH
WC-1	-	1/2"	-	3"	2"	FLOOR MOUNT	YES	AMERICAN STANDARD	231AA.104		1.28GPF, VITREOUS CHINA, WHITE, OPEN FRONT SEAT
WH-1	-	3/4"	-	-	-	WALL	-	PRIER	C-634N		ENCASED, ANTI-SIPHON, CAST BRASS HYDRANT, SATIN NICKEL, FINISH, 3/4" INLET, 3/4" HOSE THREAD OUTLET, LOOSE KEY OPERATION, SELF DRAINING, WITH INTEGRAL VACUUM BREAKER/BACKFLOW PREVENTER

INSTANTANEOUS WATER HEATER SCHEDULE												
TAG	LOCATION	SERVICE	MIN FLOW RATE	TEMP RISE AT 1 GPM	CONTROLLER	KW	AMPS	V/Ph	DIMENSIONS (HxWxD)	MANUFACTURER	MODEL	NOTES
IWH-1	109 JANITOR	LAVATORIES	0.3 GPM	61°F at 2.0 GPM	THERMOSTATIC	18 kW	50 A	208V/3Ph	12"x19"x9"	EEMAX	EXT80T2T ML	



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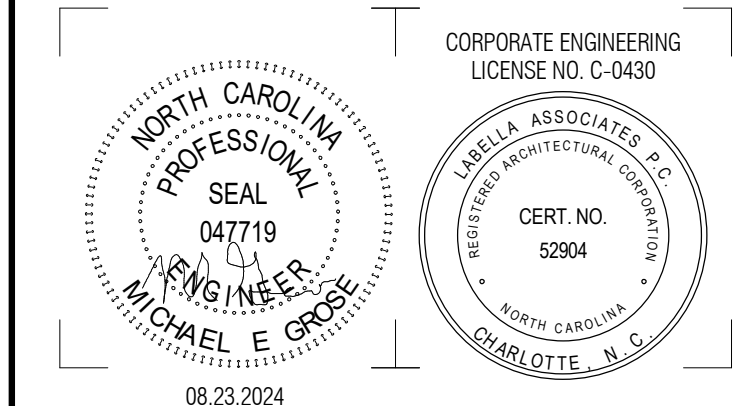
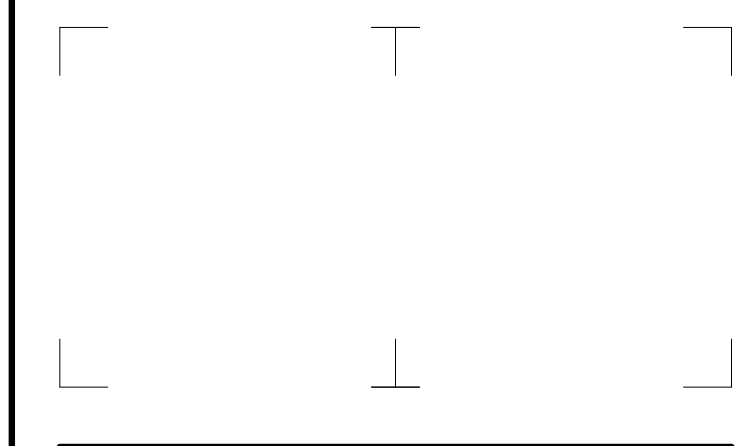
DATE: 08.23.2024

DRAWING NAME:

PLUMBING SCHEDULES

DRAWING NUMBER:

P601



08.23.2024

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DRAWING SYMBOLS

<p>CA COMPRESSED AIR</p> <p>CD CONDENSATE DRAIN</p> <p>GHR GLYCOL HOT WATER RETURN</p> <p>GHS GLYCOL HOT WATER SUPPLY</p> <p>CHWR CHILLED WATER RETURN</p> <p>CHWS CHILLED WATER SUPPLY</p> <p>C CONDENSATE</p> <p>CTR COOLING TOWER RETURN</p> <p>CTS COOLING TOWER SUPPLY</p> <p>→ DIRECTION OF FLOW</p> <p>DN DIRECTION OF PITCH</p> <p>RHL REFRIGERANT H/L PRESSURE</p> <p>RL REFRIGERANT LIQUID</p> <p>RS REFRIGERANT SUCTION</p> <p>SV STEAM VENT</p> <p>— EXISTING DUCTWORK, PIPE, EQUIPMENT</p> <p>— NEW DUCTWORK, PIPE, EQUIPMENT</p> <p>- - - DUCTWORK, PIPE, EQUIPMENT TO BE REMOVED</p> <p>□ EQUIPMENT TO BE REMOVED</p> <p>○ PIPE TURNED UP</p> <p>○ PIPE TURNED DOWN</p> <p>○ BRANCH OFF TOP OF PIPE</p> <p>○ BRANCH OFF BOTTOM OF PIPE</p> <p>○ REDUCER</p> <p>○ PIPE BREAK</p>	<p>HPLR HEAT PUMP LOOP RETURN</p> <p>HPLS HEAT PUMP LOOP SUPPLY</p> <p>HPC HIGH PRESSURE CONDENSATE</p> <p>HPS HIGH PRESSURE STEAM</p> <p>MPC MEDIUM PRESSURE CONDENSATE</p> <p>MPS MEDIUM PRESSURE STEAM</p> <p>LPC LOW PRESSURE CONDENSATE</p> <p>LPS LOW PRESSURE STEAM</p> <p>HWR HOT WATER RETURN</p> <p>HWS HOT WATER SUPPLY</p> <p>MU MAKE-UP WATER</p> <p>NG NATURAL GAS</p> <p>PC PUMPED CONDENSATE</p> <p>VAC VACUUM</p> <p>IW INDIRECT WASTE</p> <p>— BALL VALVE</p> <p>— BUTTERFLY VALVE</p> <p>— GATE VALVE</p> <p>— CHECK VALVE</p> <p>— BALANCE VALVE</p> <p>— ANGLE VALVE</p> <p>— PRESSURE REDUCING VALVE</p> <p>— STEAM TRAP</p> <p>— MOTOR OR SOLENOID CONTROL VALVE</p> <p>— MOTOR OR SOLENOID CONTROL VALVE (3-WAY)</p> <p>— TRIPLE DUTY VALVE</p> <p>— RELIEF VALVE</p> <p>— STRAINER</p> <p>— UNION</p> <p>— PRESSURE GAUGE</p> <p>— PUMP</p> <p>— REMOVE TO THIS POINT</p> <p>— NEW CONNECTION TO EXISTING</p> <p>— SECTION CALLOUT</p> <p>— DETAIL NUMBER</p> <p>— DEMOLITION KEYNOTE</p> <p>— KEYNOTE</p> <p>— RETURN AIR</p> <p>— SUPPLY AIR</p> <p>— DUCT (DIMENSIONS SHOWN IN DUCT, DIMENSIONS IN INCHES.)</p> <p>— DUCT (DIMENSIONS SHOWN BY LEADER, DIMENSIONS IN INCHES.)</p> <p>— FLEX DUCT</p> <p>— DUCT SECTION - SUPPLY AIR</p> <p>— DUCT SECTION - EXHAUST AIR</p> <p>— DUCT SECTION - RETURN AIR</p> <p>— VOLUME DAMPER</p> <p>— 14" ROUND DUCT</p> <p>— 18" x 8" FLAT OVAL DUCT</p> <p>— INSULATED DUCT (DIM. IS INTERVAL)</p> <p>— MITERED ELBOW W/ TURNING VANES</p> <p>— WALL OR DUCT MOUNTED SUPPLY GRILLE</p> <p>— WALL OR DUCT MOUNTED RETURN OR EXHAUST GRILLE</p> <p>— FIRE DAMPER</p> <p>— ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT</p> <p>— SMOKE DAMPER</p> <p>— ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT</p> <p>— COMBINATION FIRE / SMOKE DAMPER</p> <p>— ACCESS DOOR TO BE LOCATED ON MOST ACCESSIBLE SIDE OF DUCT</p> <p>— MOTOR OPERATED DAMPER</p> <p>— THERMOSTAT</p> <p>— SENSOR</p> <p>— HUMIDISTAT</p> <p>— CO2 CARBON DIOXIDE SENSOR</p> <p>— EXHAUST GRILLE</p> <p>— SUPPLY DIFFUSER</p> <p>— RETURN GRILLE</p> <p>— REGISTER OR GRILLE - TOP NUMBER REPRESENTS TAG, SEE SCHEDULE; BOTTOM NUMBER REPRESENTS CFM</p> <p>— DIFFUSER - LETTER REPRESENTS TAG, SEE SCHEDULE; NUMBER REPRESENTS CFM</p>
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NOTE:
NOT ALL SYMBOLS, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/ OR EXCLUSIONS OF ANY PARTICULAR ITEM FROM THIS PROJECT.

GENERAL NOTES

DUCTWORK GENERAL NOTES

- HVAC CONTRACTOR TO PROVIDE CRANE AND NECESSARY EQUIPMENT TO HOIST ROOF MOUNTED HVAC EQUIPMENT FROM SITE TO FINAL ROOF LOCATION. GENERAL CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS REQUIRED TO ACCOMMODATE HVAC EQUIPMENT OPENINGS AND SET CURBS. HVAC CONTRACTOR TO COORDINATE EXACT LOCATION OF PENETRATIONS WITH G.C. AND SHALL ASSIST WITH SETTING ALL HVAC EQUIPMENT ROOF CURBS. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY CAP OF ALL ROOF PENETRATIONS IN INTERIM FROM TIME PENETRATIONS ARE COMPLETE TO TIME EQUIPMENT IS SET ON ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL EQUIPMENT CURBS AND OTHER HVAC RELATED ROOF PENETRATIONS. HVAC CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY CAP WHEN EQUIPMENT IS SET IN PLACE.
- PROVIDE 45 DEGREE SHOE-TAP FITTING AND VOLUME DAMPER AT ALL BRANCH DUCT TAKE-OFFS (TOP, SIDE AND BOTTOM) FOR SUPPLY, RETURN AND EXHAUST AIR, UNLESS SHOWN OR NOTED OTHERWISE. VOLUME DAMPERS SHALL BE OMITTED FROM VAV INLET BRANCH DUCTWORK.
- COORDINATE HVAC INSTALLATION WITH STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.
- INSULATE OR LINE DUCTWORK AS SPECIFIED IN THE MECHANICAL INSULATION AND METAL DUCTS SPECIFICATIONS OR NOTED ON DRAWINGS. NOTE THAT DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE NET CLEAR DIMENSIONS.
- ALL 90 DEGREE RECTANGULAR ELBOWS AND DUCTWORK TEES SHALL BE HARD MITERED WITH FACTORY TURNING VANES. TURNING VANES SHALL BE OMITTED FROM AIR TRANSFER DUCT ELBOWS.
- ALL DUCTWORK PASSING THROUGH NON-FIRE RATED WALLS TO BE SEALED AROUND PERIMETER (BOTH SIDES) WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.
- INLET OF VAV BOX TO BE ARRANGED SUCH THAT THERE IS NO RESTRICTION OF AIRFLOW. THERE SHALL BE A MINIMUM OF THREE DUCT DIAMETERS OF STRAIGHT DUCT (FLEX DUCT WILL NOT BE PERMITTED) UPSTREAM OF THE INLET. INLET DUCT SIZE TO BE SAME SIZE AS VAV BOX INLET COLLAR UNLESS NOTED OTHERWISE. REFER TO VAV BOX INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- HVAC CONTRACTOR TO PROVIDE ALL WALL & ROOF PENETRATIONS 8"x8" OR SMALLER. ALL PENETRATIONS LARGER THAN 8"x8" IS THE RESPONSIBILITY OF THE G.C. COORDINATE ALL 8"x8" OR LARGER PENETRATION LOCATIONS WITH G.C. LINTELS (BY G.C.) REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. PENETRATIONS AND LINTEL LOCATIONS TO BE COORDINATED WITH G.C. AND DOCUMENTED ON COORDINATION DRAWINGS.
- BALANCING CONTRACTOR TO SET MINIMUM OUTSIDE AIR DAMPER POSITION TO MEET VENTILATION AIR QUANTITIES REQUIRED AS SHOWN ON PLANS OR LISTED IN EQUIPMENT SCHEDULES.
- NATURAL GAS PIPING WHERE REQUIRED SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR, WHICH SHALL INCLUDE FINAL CONNECTIONS TO HVAC EQUIPMENT. COORDINATE ALL EQUIPMENT LOCATIONS THAT REQUIRE NATURAL GAS WITH THE PLUMBING CONTRACTOR.
- ALL SUPPORT OF EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE BUILDING CODE. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE STRUCTURAL STEEL WHERE REQUIRED IN ORDER TO SUPPORT EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES WHERE THE BUILDING STRUCTURE SPACING IS TOO GREAT TO ALLOW DIRECT SUPPORT. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMATION OF ALL SUPPORTS AND SHALL OBTAIN THE PROFESSIONAL SERVICE OF A LICENSED STRUCTURAL ENGINEER AND FURNISH SEALED DRAWINGS AND DETAILS ILLUSTRATING SUCH SUPPORTS AND COMPLIANCE METHODS.
- THE ABOVE GENERAL NOTES APPLY TO ALL HVAC CONSTRUCTION DOCUMENT DRAWINGS.

PIPING GENERAL NOTES

- COORDINATE HVAC PIPING INSTALLATION WITH DUCTWORK, STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.
- PROVIDE ALL PIPING PENETRATIONS THROUGH WALLS, FLOORS AND DECKS REQUIRED WHERE SHOWN. SEAL ALL EXTERIOR WALL PENETRATIONS WEATHER TIGHT.
- ALL PIPING PASSING THROUGH WALLS TO BE FIRE STOPPED AND SEALED AROUND PERIMETER WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.
- INSTALL VAV BOX REHEAT PIPING AND ASSOCIATED VALVES/COMPONENTS SUCH THAT CONTROL BOX HAS A MINIMUM 2'-0" CLEARANCE FOR ACCESS.
- HVAC CONTRACTOR IS RESPONSIBLE FOR DRAINING, FILLING WITH WATER/CHEMICALS, AND AIR REMOVAL ASSOCIATED WITH ALL PIPING WORK.
- THE ABOVE GENERAL NOTES APPLY TO ALL HVAC CONSTRUCTION DOCUMENT DRAWINGS.

NC ENERGY REQUIREMENTS:

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT		
METHOD OF COMPLIANCE		
PRESCRIPTIVE	<input checked="" type="checkbox"/>	ENERGY COST BUDGET <input type="checkbox"/>
<p>THERMAL ZONE</p> <p>EXTERIOR DESIGN CONDITIONS</p> <p>WINTER DRY BULB</p> <p>SUMMER DRY BULB</p>		<p>3A</p> <p>19</p> <p>94</p>
<p>INTERIOR DESIGN CONDITIONS</p> <p>WINTER DRY BULB</p> <p>SUMMER DRY BULB</p> <p>RELATIVE HUMIDITY</p>		<p>72</p> <p>75</p> <p>50</p>
<p>BUILDING HEATING LOAD</p> <p>BUILDING COOLING LOAD</p>		<p>130.0 MBH</p> <p>272.6 MBH</p>
MECHANICAL SPACE CONDITIONING SYSTEM		
UNITARY		
<p>DESCRIPTION OF UNIT</p> <p>HEATING EFFICIENCY</p> <p>COOLING EFFICIENCY</p> <p>HEAT OUTPUT OF UNIT</p> <p>COOLING OUTPUT OF UNIT</p>		<p>SEE SCHEDULES</p> <p>SEE SCHEDULES</p> <p>SEE SCHEDULES</p> <p>SEE SCHEDULES</p>
BOILER		
<p>TOTAL BOILER OUTPUT</p> <p>CHILLER</p> <p>TOTAL CHILLER OUTPUT</p>		<p>N/A</p> <p>N/A</p>
LIST EQUIPMENT EFFICIENCIES		
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)		
<p>MOTOR HORSEPOWER</p> <p>NUMBER OF PHASES</p> <p>MINIMUM EFFICIENCY</p> <p>MOTOR TYPE</p> <p>NUMBER OF POLES</p>		<p>SEE SCHEDULES</p> <p>SEE SCHEDULES</p> <p>SEE SCHEDULES</p> <p>SEE SCHEDULES</p>
ADDITIONAL PRESCRIPTIVE COMPLIANCE REQUIREMENTS		
<input type="checkbox"/>	C406.2	MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
<input checked="" type="checkbox"/>	C406.3	REDUCED LIGHTING POWER DENSITY
<input type="checkbox"/>	C406.4	ENHANCED DIGITAL LIGHTING CONTROLS
<input type="checkbox"/>	C406.5	ON-SITE RENEWABLE ENERGY
<input type="checkbox"/>	C406.6	DEDICATED OUTDOOR AIR SYSTEM
<input type="checkbox"/>	C406.7	REDUCED ENERGY USE IN SERVICE WATER HEATING

APPLICABLE CODES

- 2018 NORTH CAROLINA BUILDING CODE
- 2018 NORTH CAROLINA MECHANICAL CODE
- 2018 NORTH CAROLINA FIRE CODE
- 2018 NORTH CAROLINA PLUMBING CODE
- 2018 NORTH CAROLINA ENERGY CONSERVATION CODE
- ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES-CABO/ANSI A117.1
- 2017 NATIONAL ELECTRIC CODE
- 2016 NFPA 13

EQUIPMENT DESIGNATIONS

ACU AIR CONDITIONING UNIT	HC HEATING COIL
AHU AIR HANDLING UNIT	HP HEAT PUMP
AD ACCESS DOOR	HU HUMIDIFIER
AS AIR SEPARATOR	HWP HOT WATER PUMP
BDD BACK DRAFT DAMPER	HX HEAT EXCHANGER
B BOILER	L LOUVER
CA AIR COMPRESSOR	MAU MAKE UP AIR UNITS
CAV CONSTANT AIR VOLUME BOX	MD MOTORIZED DAMPER
CC COOLING COIL	P PUMP
CFP CHEMICAL FEED PUMP	PHC PREHEAT COIL
CH CHILLER	PPU PUMPING PACKAGED UNIT
CHP CHILLED WATER PUMP	PRG GAS PRESSURE REGULATOR
CP CONDENSATE PUMP	PRV PRESSURE REDUCING VALVE
CRAC COMPUTER ROOM UNIT	R REGISTER
CRU CONDENSATE RETURN UNIT	RCP RADIANT CEILING PANEL
CONC CONCRETE	RTU ROOF TOP UNIT
CT COOLING TOWER	UH UNIT HEATER
CU CONDENSING UNIT	UV UNIT VENTILATOR
CUH CABINET UNIT HEATER	VAV VARIABLE AIR VOLUME BOX
CV CONTROL VALVE	VD VOLUME DAMPER
DHW DOMESTIC WATER HEATER	VED VARIABLE SPEED DRIVE
EE EXHAUST FAN	WS WATER SOFTENER
ET EXPANSION TANK	
FCU FAN COIL UNIT	
FP FIRE PUMP	
FI FINNED TUBE	

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

ABBREVIATIONS

% PERCENT	FA FINISHED FLOOR	NIC NOT IN CONTRACT
AC ALTERNATING CURRENT	FL FLOOR	NO NORMALLY OPEN
ADJ ADJACENT	FLA FULL LOAD AMPS	NPT NATIONAL PIPE TREAD
AFF ABOVE FINISHED FLOOR	FPM FEET PER MINUTE	NRS NON-RISING STEM
AFG ABOVE FINISHED GRADE	FPS FEET PER SECOND	NTS NOT TO SCALE
ALT ALTERNATE	FOOT OR FEET	OC ON CENTER
AMB AMBIENT	FUT FUTURE	OD DIAMETER, OUTSIDE
AMP AMPERE (AMP/AMPS)	GA GAGE OR GAUGE	OS&Y OUTSIDE SCREW AND YOKE
ANSI AMERICAN NATIONAL STANDARD INSTITUTE	GAL GALLONS	PC PLUMBING CONTRACTOR
APPROX APPROXIMATE (LY)	GC GENERAL CONTRACTOR	PLBG PLUMBING
AVG AVERAGE	GPM GALLONS PER MINUTE	PH PHASE (ELECTRICAL)
BFP BACKFLOW PREVENTER	GPD GALLONS PER DAY	PRESS PRESSURE
BHP BRAKE HORSEPOWER	GPH GALLONS PER HOUR	PSF POUNDS PER SQUARE FOOT
BLDG BUILDING	HD HEAD	PSI POUNDS PER SQUARE INCH
BO BOTTOM OF BASEMENT	HG HORIZONTAL	PSIG PSI GUAGE
BSMT BASEMENT	HP HORSEPOWER	PRV PRESSURE REDUCING VALVE
BTU BRITISH THERMAL UNIT	HP HORSEPOWER	RCVR RECEIVER
BV BALANCING VALVE	HPC HIGH PRESSURE CONDENSATE	RECIRC RECIRCULATE
CAP CAPACITY	HR HOUR	RHW HOT WATER RE-CIRCULATION
CLG CAST IRON PIPE	HRS HOUR	RO ROUGH OPENING
CLR CLEAR	HVAC HEATING, VENTILATING, AND AIR CONDITIONING	RPOA REDUCED-PRESSURE DETECTOR ASSY.
CO CLEANOUT OR CARBON MONOXIDE	HZ HERTZ	RPM REVOLUTIONS PER MINUTE
COL COLUMN	ID DIAMETER, INSIDE	RPZ REDUCED-PRESSURE ZONE
CONN CONNECTION	IN INCH	SCH STEAM CAPTURE HOOD
CONC CONCRETE	INSUL INSULATION	SPEC SPECIFICATION
CONT CONT	INT INTERIOR	SPLY SUPPLY
CO FT CUBIC FEET	IPS IRON PIPE SIZE	SQ SQUARE
CV VALVE FLOW COEFFICIENT	INV INVERT	SQ FT SQUARE FOOT (FEET)
DCDA DOUBLE CHECK DETECTOR ASSEMBLY	KW KILOWATT	SQ IN SQUARE INCH (INCHES)
DCV DETECTOR CHECK VALVE	KWH KILOWATT HOUR	STD STANDARD
DCW DOMESTIC COLD WATER	LBS POUNDS	SUCT SUCTION
DEMO DEMOLISH OR DEMOLITION	LF LINEAR FEET	TSBT TSB TO BE DETERMINED
DHW DOMESTIC HOT WATER	LG LENGTH	TC TEMPERATURE CONTROL CONTRACTOR
DIA DIAMETER	LOC LOCATION	TD TEMPERATURE DIFFERENCE
DUP DUCTILE IRON PIPE	LPC LOW PRESSURE CONDENSATE	TEMP TEMPERATURE
DWH DOMESTIC WATER HEATER	LPS LOW PRESSURE STEAM	TMV THERMOSTATIC MIXING VALVE
DWV DRAIN, WASTE, & VENT	LRA LOCKED ROTOR AMPS	TOP OF
DWG DRAWING	LWT LEAVING WATER TEMPERATURE	TYP TYPICAL
EXIST EXISTING	MATL MATERIAL	V VOLT
ENGR ENGINEER	MAX MAXIMUM	VAC VACUUM
EQ EQUAL	MBH BTU PER HOUR (THOUSAND)	VAR VARIABLE
EST ESTIMATED	MECH MECHANICAL	VEL VELOCITY
ETR EXISTING TO REMAIN	MFG MANUFACTURER	VIF VERIFY IN FIELD
EWH ELECTRIC WATER HEATER	MHI MINIMUM	VOL VOLUME
EWT ENTERING WATER TEMPERATURE	MISC MISCELLANEOUS	W WATT
EX EXISTING	MOCP MAXIMUM OVERCURRENT PROTECTION	W/ WITH
EXIST EXISTING	MPC MEDIUM PRESSURE CONDENSATE	W/O WITH OUT
EXP EXPANSION	MPS MEDIUM PRESSURE STEAM	WCO WALL CLEANOUT
EXT EXTERIOR	MTC MOUNTING	WHA WATER HAMMER ARRESTER
F DEGREES FAHRENHEIT	N/A NOT APPLICABLE	WM WATER METER
	NC NORMALLY CLOSED	WPD WATER PRESSURE DROP
		WT WEIGHT
		WWP WORKING WATER PRESSURE

NOTE:
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

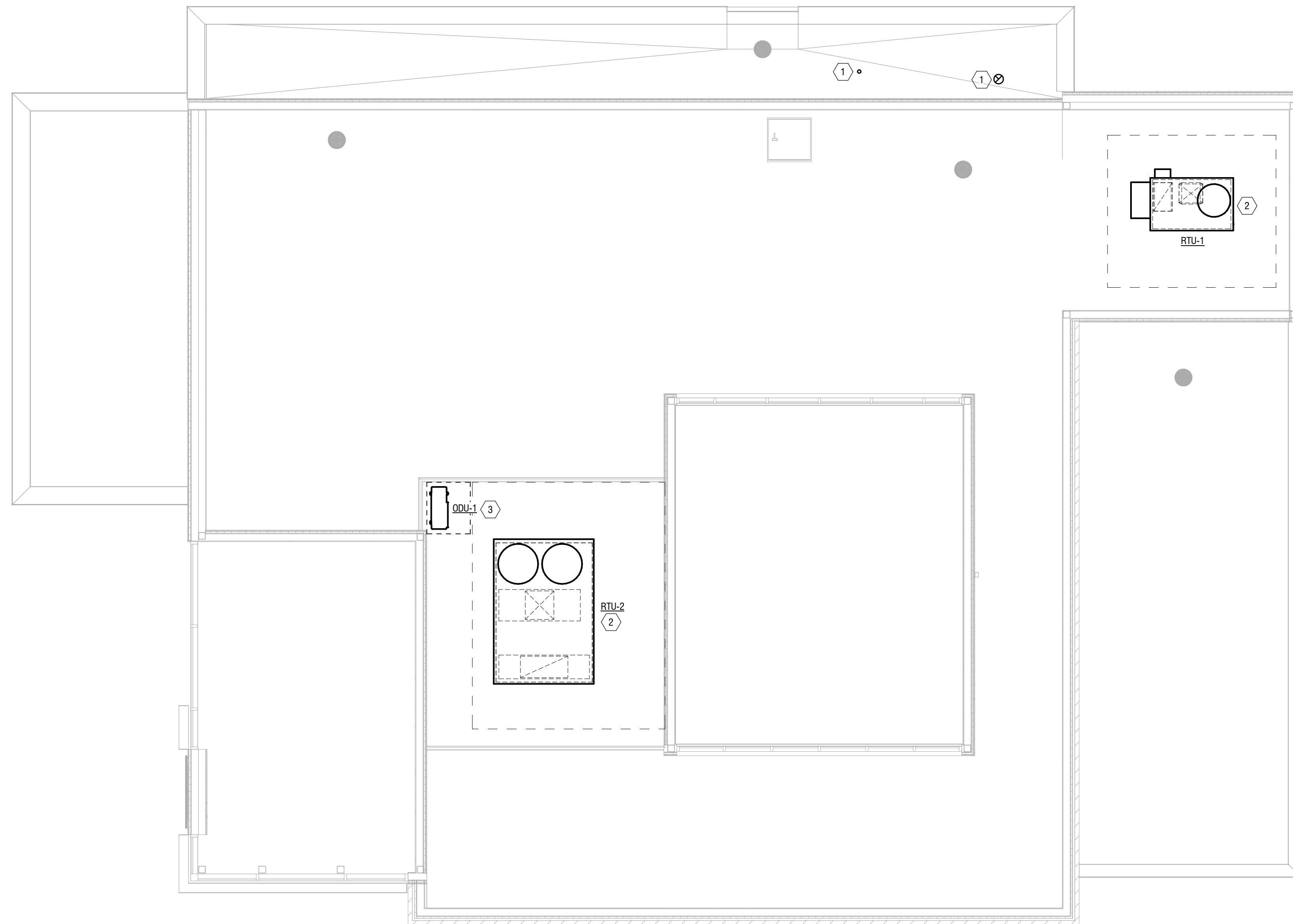
MECHANICAL LEGEND SHEET

DRAWING NUMBER: M001

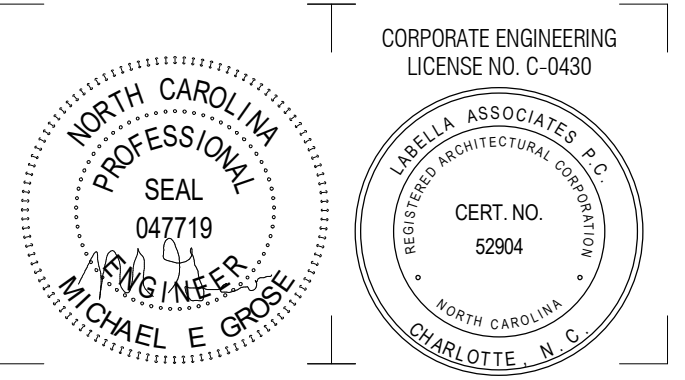
M001

KEY NOTES:

- ① FIELD COORDINATE EXACT LOCATION OF PLUMBING VENTS AND EXHAUST DUCTWORK THROUGH ROOF. MAINTAIN 10'-0" MIN. AWAY FROM O.A. INTAKES. MAINTAIN 3'-0" MIN. AWAY FROM BUILDING OPENINGS.
- ② FIELD COORDINATE EXACT LOCATION OF ROOF TOP UNIT WITH G.C. AND STRUCTURAL. MAINTAIN 10'-0" MIN. AWAY FROM E.A. OUTLETS. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCES.
- ③ FIELD COORDINATE EXACT LOCATION OF OUTDOOR CONDENSING UNIT WITH G.C.. COORDINATE ALL MANUFACTURER'S CLEARANCES AND REFRIGERANT LINESET LENGTH ALLOWANCES PRIOR TO PURCHASING ANY EQUIPMENT. NOTIFY ENGINEER AND ARCHITECT OF ANY DISCREPANCIES.



1 ROOF MECHANICAL PLAN
M201 3/16" = 1'-0"



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NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: MG / MM

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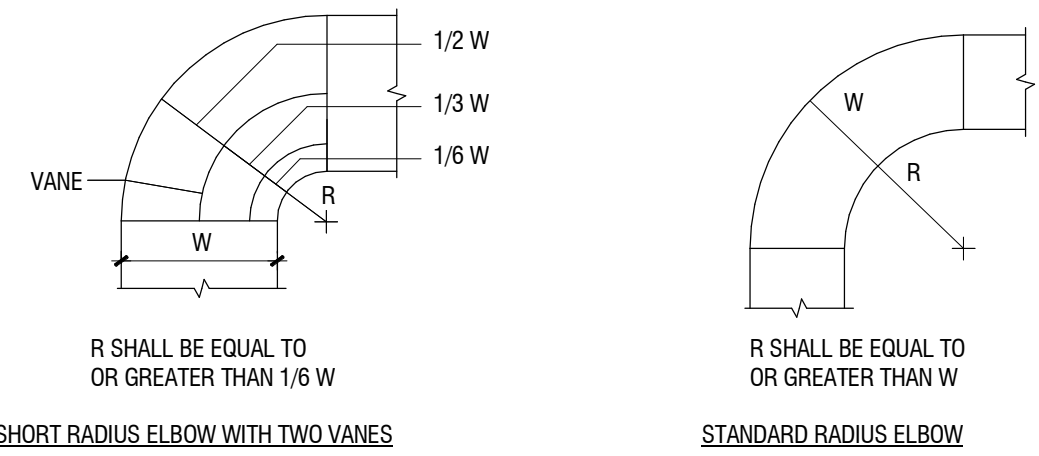
DATE: 08.23.2024

DRAWING NAME:

ROOF MECHANICAL PLAN

DRAWING NUMBER:

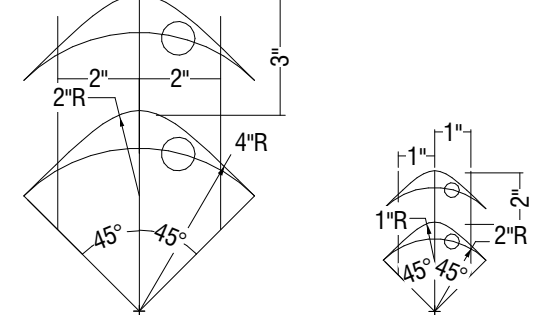
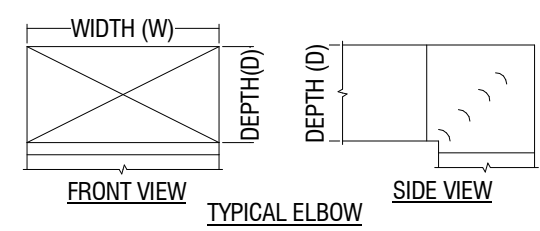
M201



NOTES:

1. MAKE THE INTERIOR SURFACE OF ALL RADIUS ELBOWS ROUND.
2. MAKE ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS HAVE VANES, AND VANES ARE CONSTRUCTED, SUPPORTED AND FASTENED IN ACCORDANCE WITH SMACNA.

9 DUCT - TYPICAL RADIUS ELBOWS
NOT TO SCALE



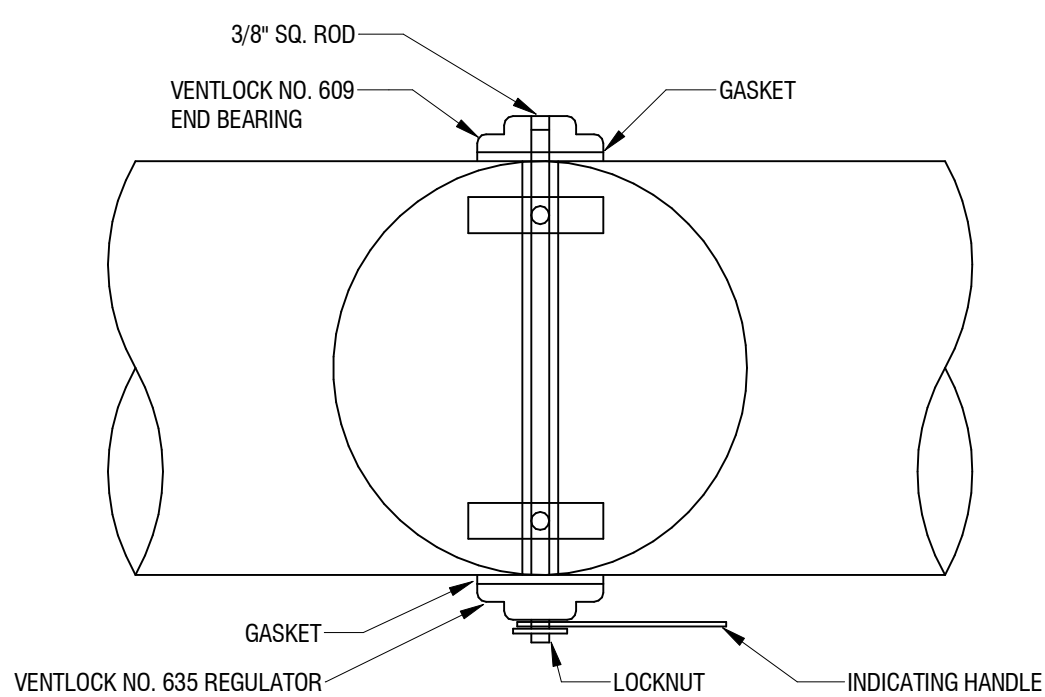
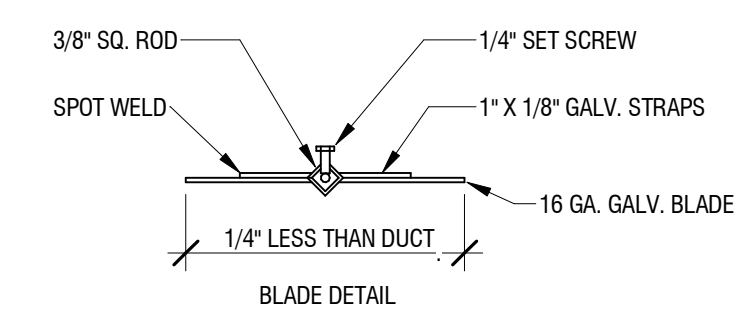
LARGE DOUBLE VANE ELBOW:
USE FOR ELBOWS 36" OR WIDER, AND ANY DEPTH

SMALL DOUBLE VANE ELBOW:
USE FOR ELBOWS UP TO 36" IN WIDTH, AND/OR DEPTH

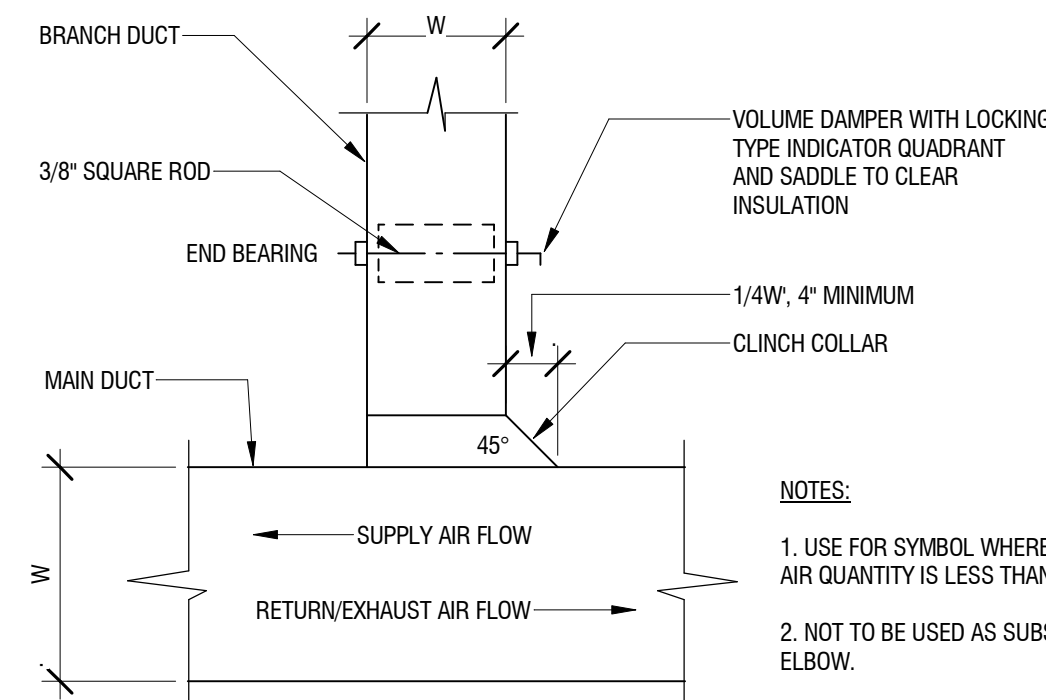
NOTES:

1. ALL SQUARE OR RECTANGULAR ELBOWS SHALL HAVE ONE OF THE TWO TYPES OF TURNING VANES SHOWN ABOVE. SINGLE VANE ELBOWS SHALL NOT BE PERMITTED.
2. CONSTRUCT, SUPPORT, AND FASTEN ALL VANES AS RECOMMENDED BY SMACNA.
3. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR EXHAUST OR RETURN DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE PERMITS RADIUS INSTALLATION.
4. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR SUPPLY DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE PERMITS RADIUS INSTALLATION AND/OR THERE IS NO OUTLET OR TAKE-OFF WITHIN 5D ON THE DOWNSTREAM SIDE OF THE ELBOW.

8 DUCT - SQUARE OR RECTANGULAR ELBOWS
NOT TO SCALE



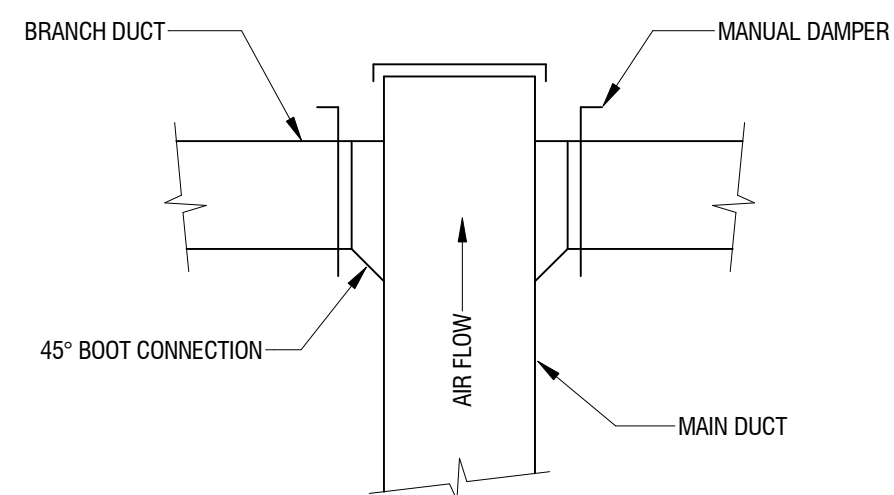
7 DUCT - ROUND VOLUME DAMPER DETAIL
NOT TO SCALE



NOTES:

1. USE FOR SYMBOL WHERE BRANCH DUCT AIR QUANTITY IS LESS THAN 1000 CFM.
2. NOT TO BE USED AS SUBSTITUTE FOR ELBOW.

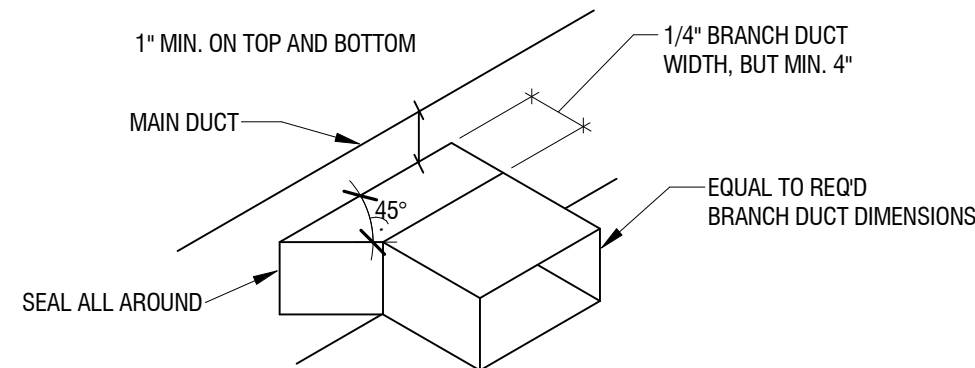
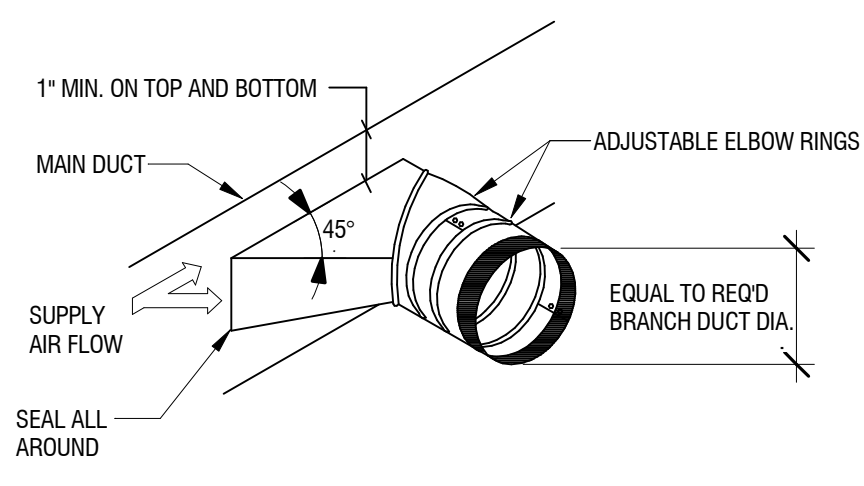
6 DUCT - RECTANGULAR BRANCH CONNECTION DETAIL
NOT TO SCALE



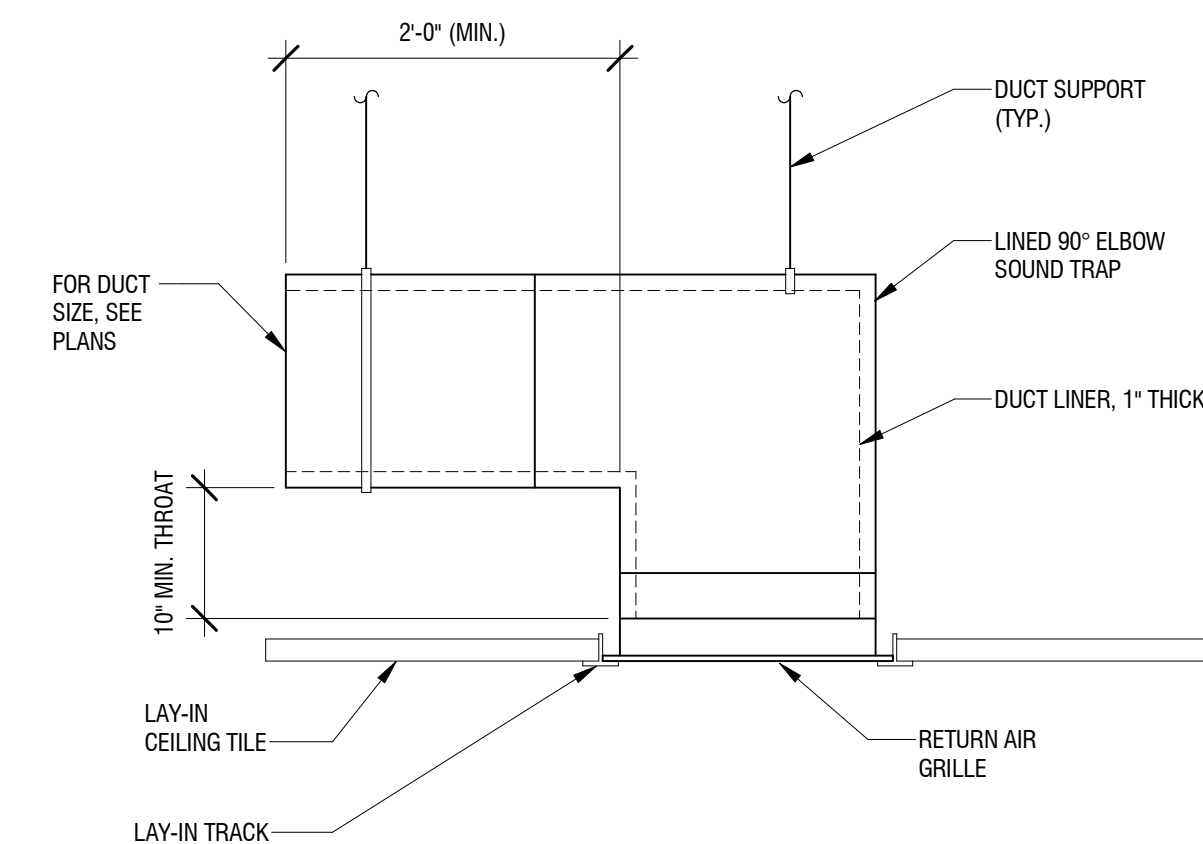
NOTE:

AIR FLOW FOR SUPPLY SYSTEM IS SHOWN. AIR FLOW FOR EXHAUST SYSTEM IS OPPOSITE.

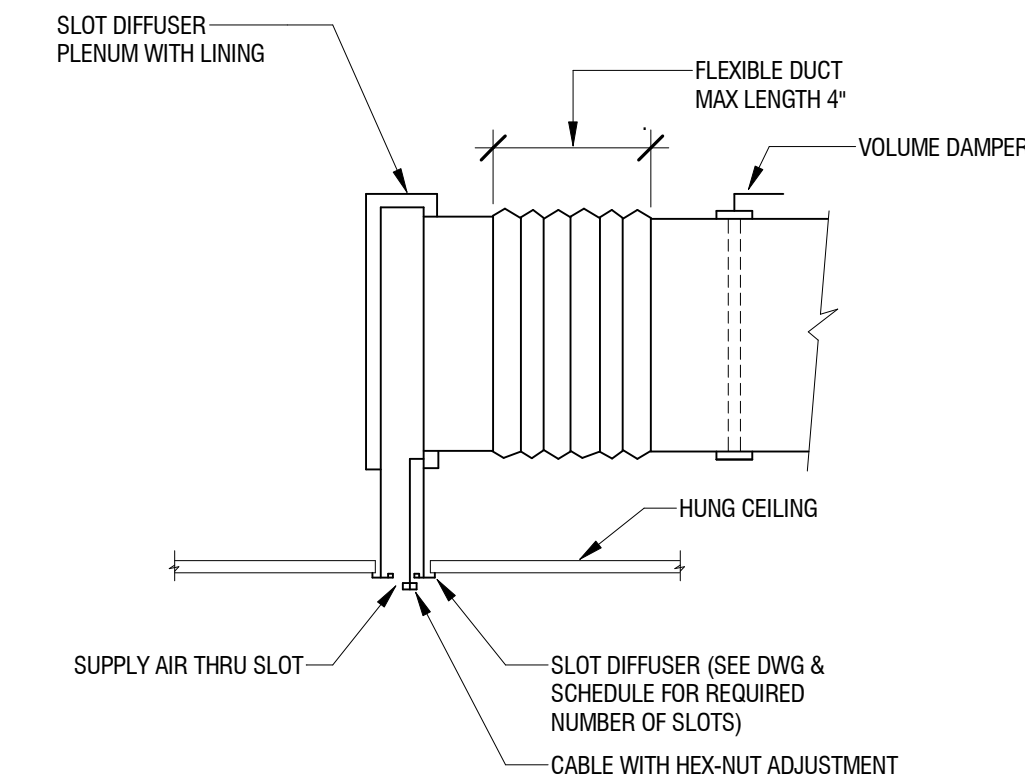
5 DUCT - DUCT TEE BRANCH TAKE-OFF DETAIL
NOT TO SCALE



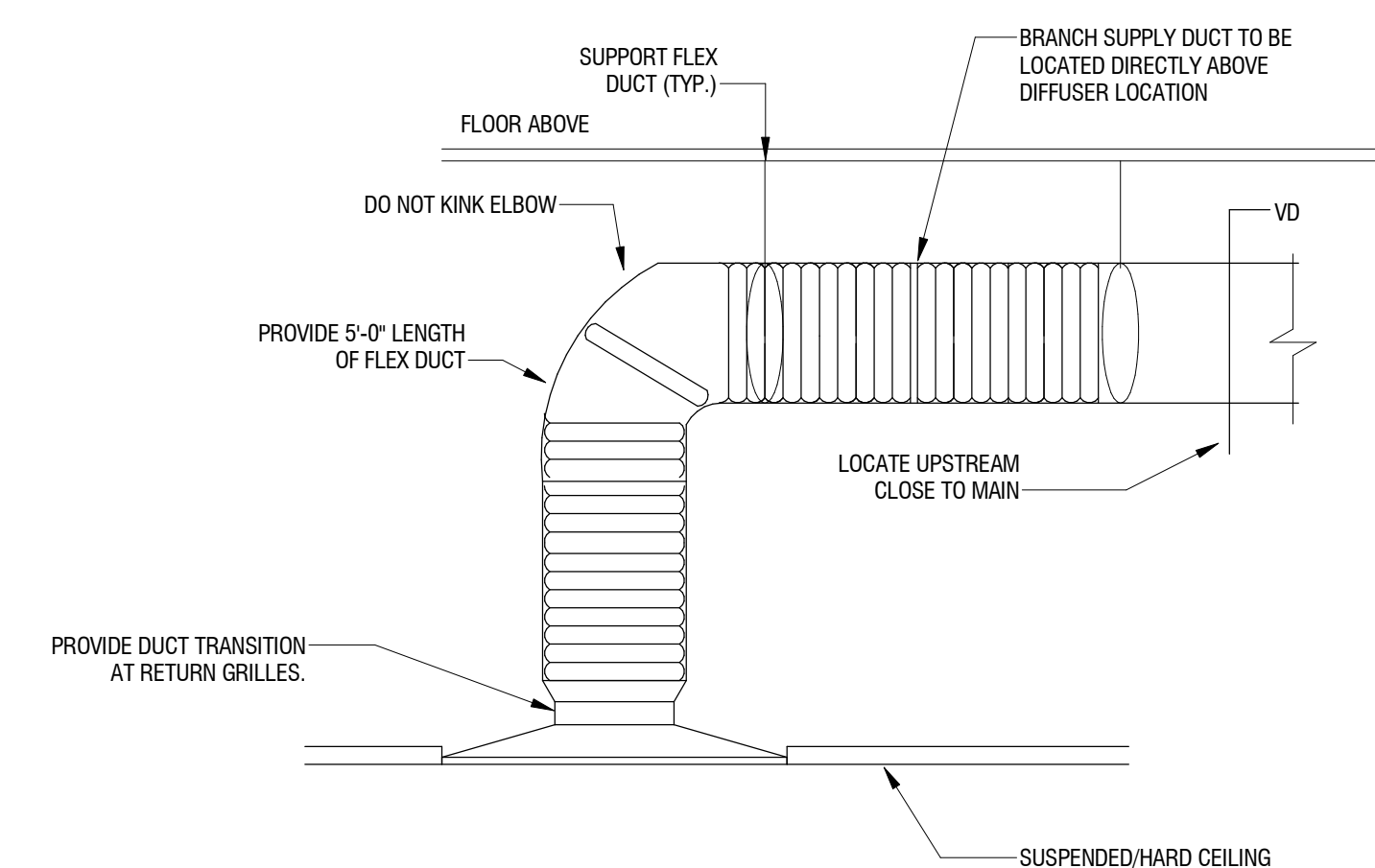
4 DUCT - BRANCH TAKE-OFF DETAIL
NOT TO SCALE



3 DUCT - AT - RETURN GRILLE W/ SOUND/LIGHT TRAP
NOT TO SCALE



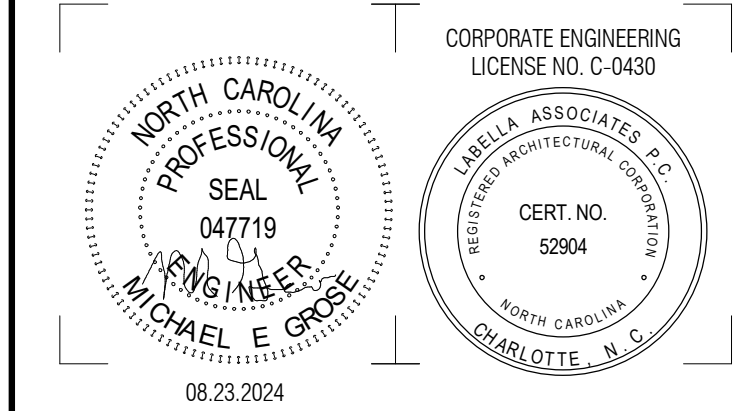
2 DUCT - AT - LINEAR DIFFUSER DETAIL
NOT TO SCALE



NOTES:

1. ALL DUCTWORK AND DIFFUSER CONNECTIONS SHALL MEET SMACNA STANDARDS.
2. EXCESSIVE USE OF FLEX DUCTWORK AND OFFSETS IN EXCESS OF 45 DEGREES WILL BE REJECTED AT TIME OF PROJECT INSPECTION AND RE-INSTALLED AT THE CONTRACTORS EXPENSE.
3. COORDINATE DIFFUSER AND BRANCH DUCTWORK LOCATIONS WITH REFLECTED CEILING PLAN.
4. PROVIDE RETURN GRILLES WITH FLEX DUCT IN SIMILAR FASHION (FOR PLENUM RETURN), WHERE SHOWN ON PLANS TO BE DUCTED RETURN, CONNECT TO HARD DUCT.

1 DUCT - AT - DIFFUSER AND RETURN GRILLE CONNECTION DETAIL
NOT TO SCALE



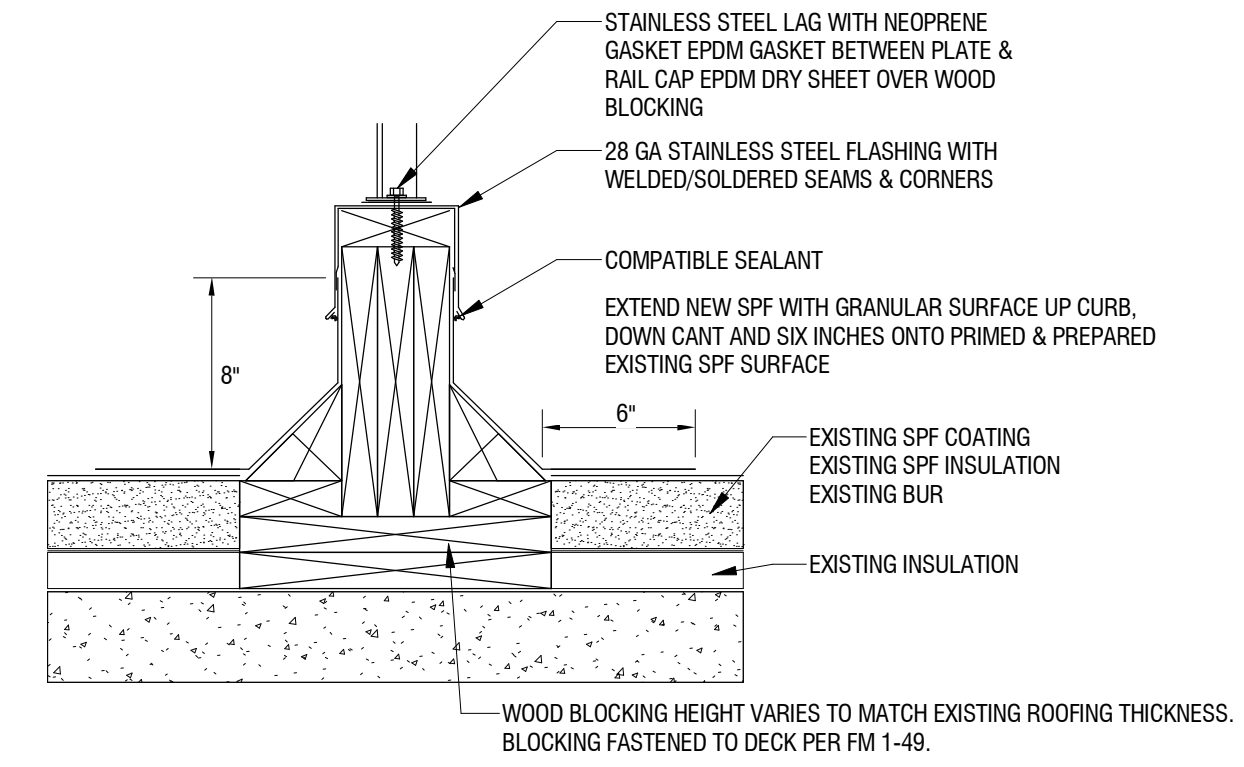
LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		MG / MM
REVIEWED BY:		MG
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

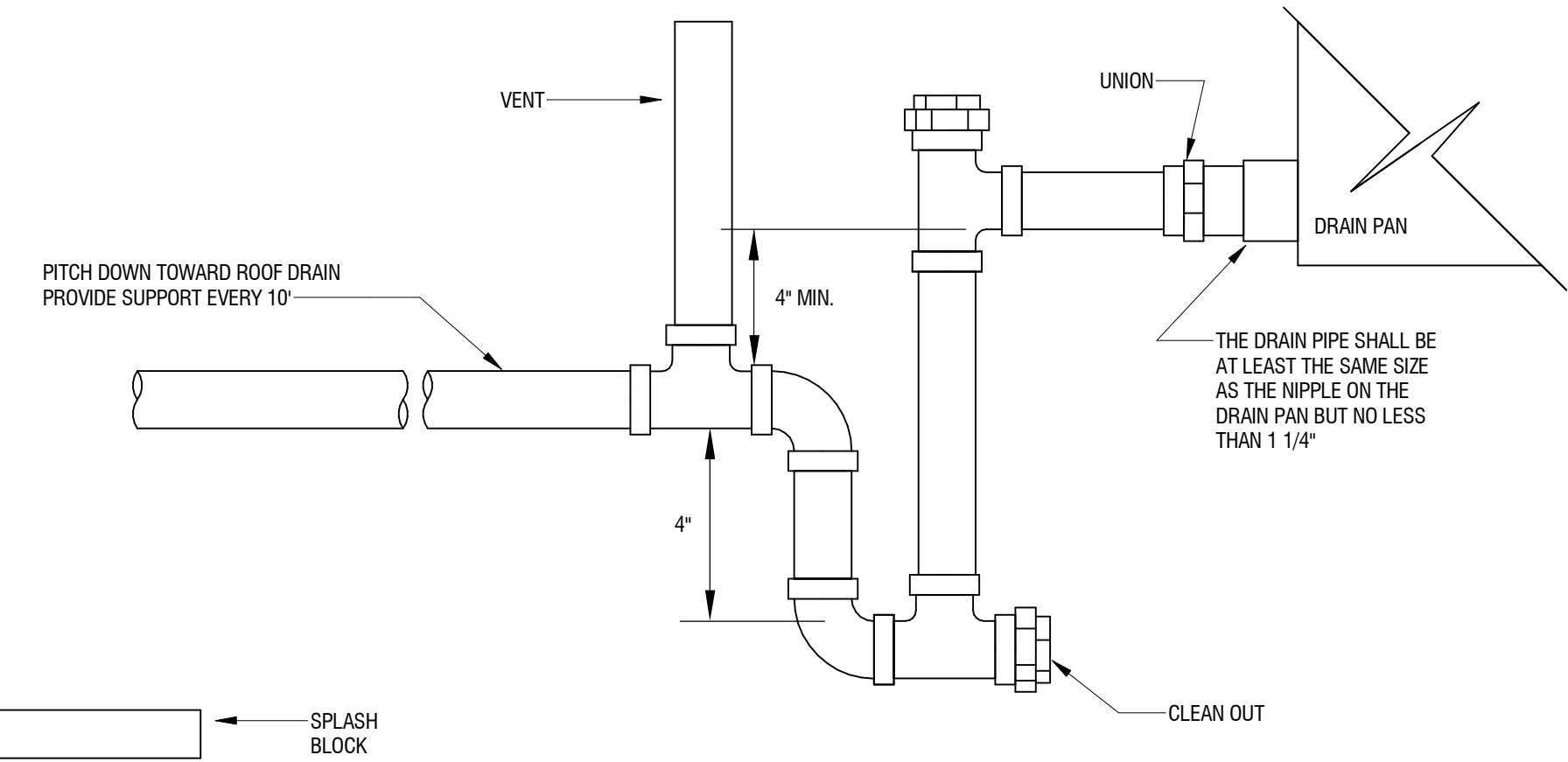
MECHANICAL DETAILS

DRAWING NUMBER:

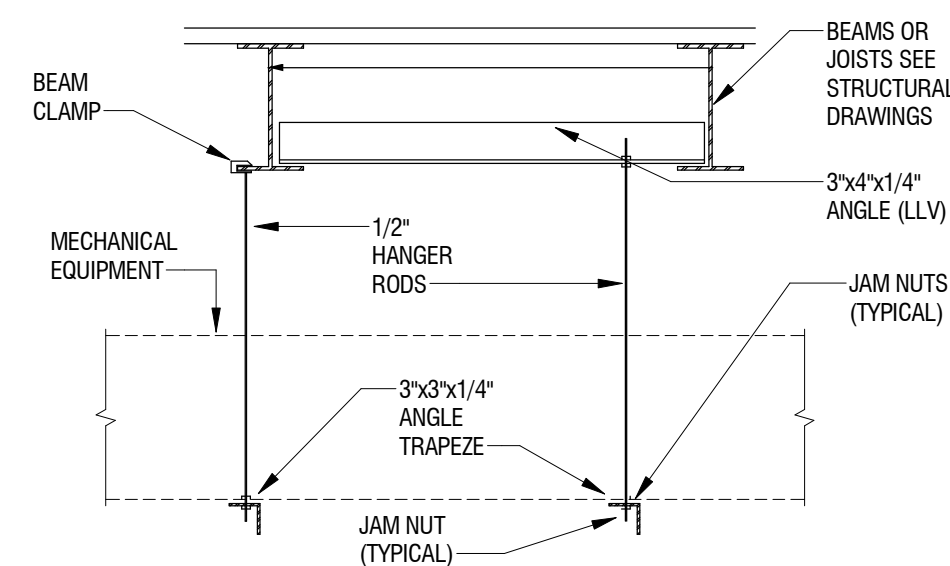
M501



3 S - ROOF CURB DETAIL
M502 NOT TO SCALE

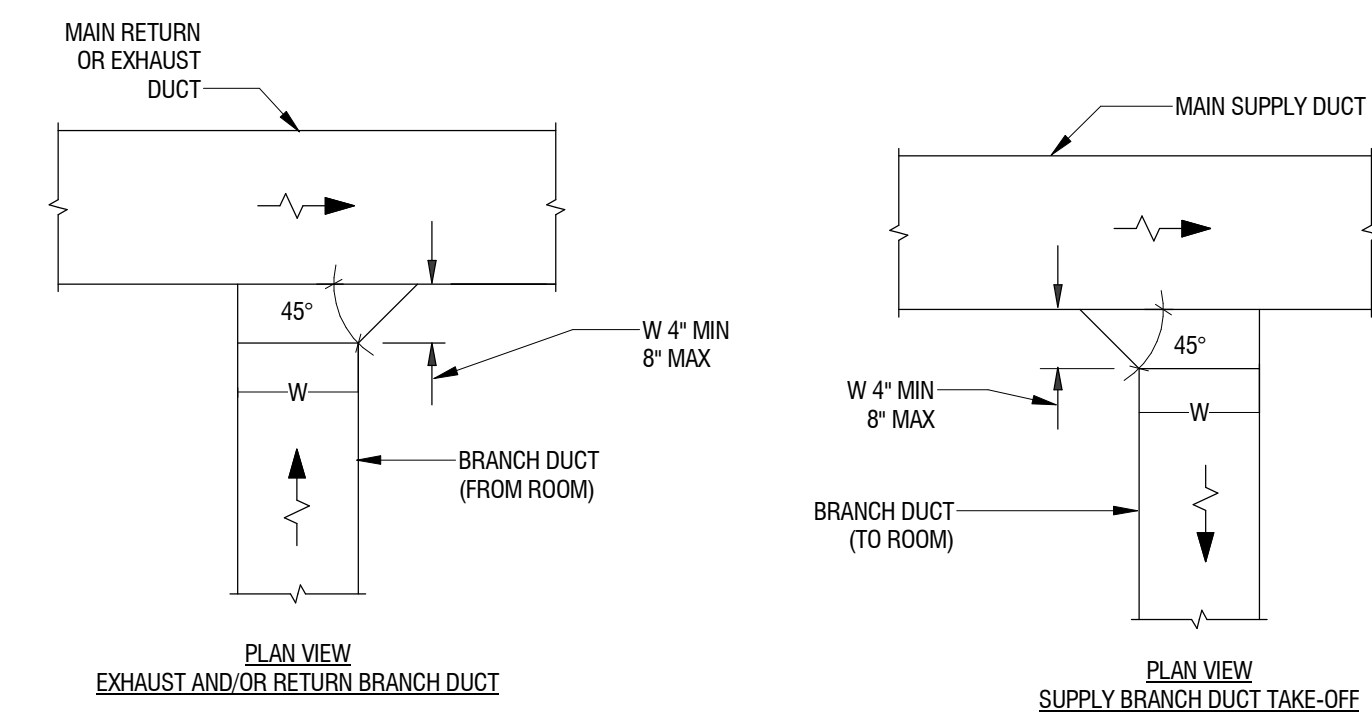
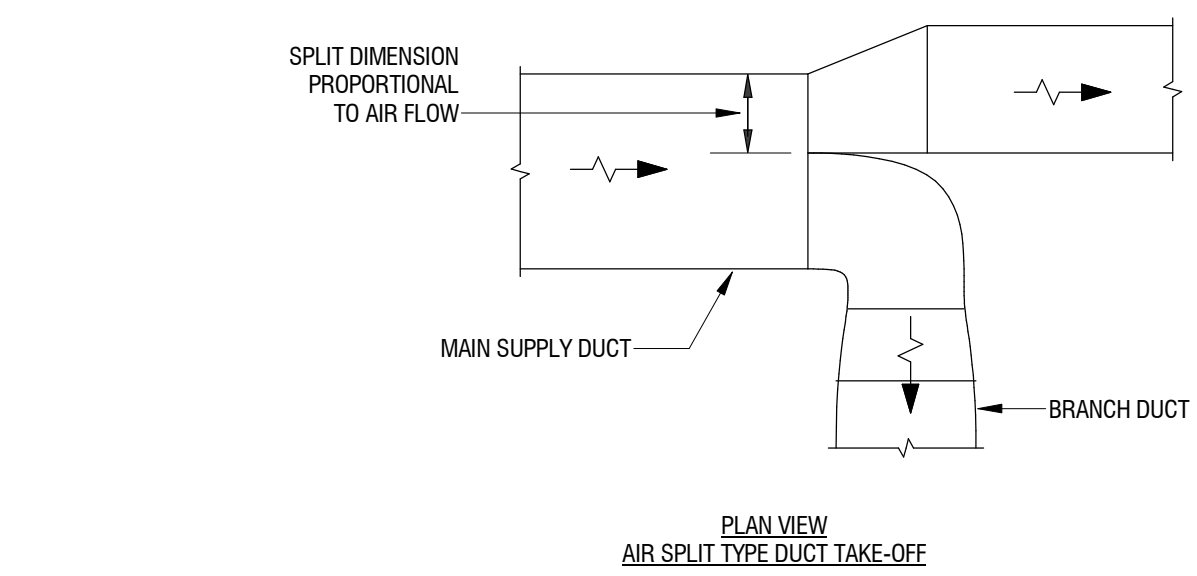


2 PIPE - CONDENSATE DRAIN TRAP
M502 NOT TO SCALE

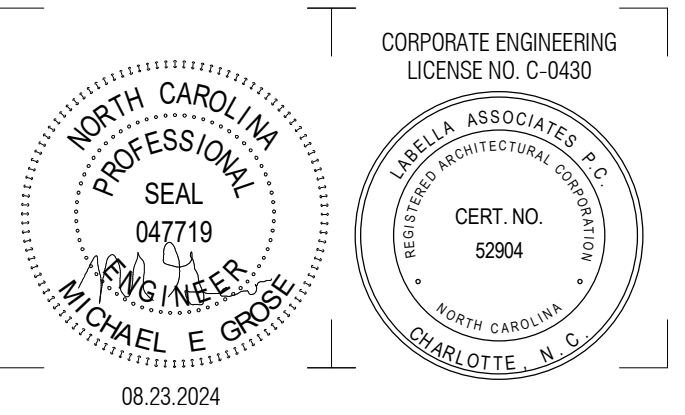
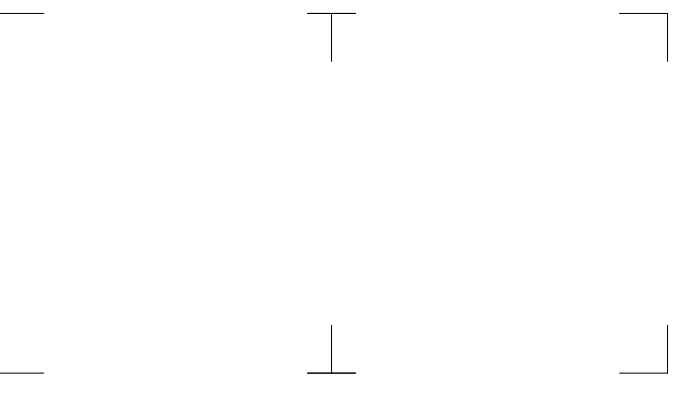


- NOTES:**
1. MAXIMUM LOAD PER HANGER ASSEMBLY = 750 POUNDS.
 2. LOCATE HANGERS AS REQUIRED FOR PROPER SUPPORT OF EQUIPMENT.
 3. PROVIDE EXTERNAL VIBRATION ISOLATORS ONLY IF FAN EQUIPMENT HAS NOT BEEN PROVIDED WITH INTERNAL VIBRATION ISOLATION.

4 S - TYPICAL MECHANICAL EQUIPMENT HANGER DETAIL
M502 NOT TO SCALE



1 DUCT - TYPICAL DUCTWORK DETAILS
M502 NOT TO SCALE



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ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NAME:

MECHANICAL DETAILS

DRAWING NUMBER:

M502

RTU (DX) SCHEDULE																																			
No.	NOMINAL TONS	SUPPLY MAX CFM	HEATING CFM	OUTSIDE AIR At Max SAGFM	SUPPLY FAN				COMPRESSOR				CONDENSER				COOLING				HEATING				ELECTRICAL				WEIGHT	MANUFACTURER	MODEL	NOTES			
					TYPE	ESP (in. w.g.)	TSP (in. w.g.)	HP	FLA	No.	RLA	LRA	No.	FLA	LRA	CAPACITY CONTROL	EAT	LAT	TOTAL MBH	SENS MBH	EFFICIENCY	CAPACITY CONTROL	EAT	LAT	FUEL	INPUT MBH	OUTPUT MBH	EFFICIENCY					V/PH/Hz	MCA	MOP
RTU-1	5.0	2000	2000	285	DIRECT	1.0	1.28	1.5	-	1	15.9	-	1	1.4	-	TSTAT	80	57.5	59.9	48.8	12.0 EER	TSTAT	65	102.8	NATURAL GAS	100.0	81.0	14.0 SEER	208V/3Ph/60Hz	30.0	45	797	TRANE	YSC060G3EM	1-7
RTU-2	12.5	4900	4900	560	BELT	1.0	1.29	3.0	10.6	2	24.96	-	2	2.2	-	TSTAT	80	57.5	147.7	119.1	11.0 EER	TSTAT	65	117.7	NATURAL GAS	350.0	280.0	12.2 SEER	208V/3Ph/60Hz	60.0	80	1970	TRANE	YSD150G3RV	1-8

- NOTES:**
- COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH AHRI STANDARD 210/290 AT 85F AMBIENT OUTDOOR AIR TEMP, 80F DRY BULB, 67F WET BULB, ENTRANCE AIR TEMP, AND NOMINAL AIR QUANTITY LISTED.
 - MANUFACTURER'S FULL PERIMETER INSULATED ROOF CURB.
 - PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT W/ CLEAR, LOCKING COVER.
 - FIELD MOUNTED DISCONNECT SWITCH - TO BE PROVIDED & INSTALLED BY E.C.
 - PROVIDE NEW FILTERS FOR EACH UNIT.
 - INTEGRATED ENTHALPY ECONOMIZER W/ BAROMETRIC RELIEF.
 - DUCT SMOKE DETECTOR.
 - PROVIDE UNIT WITH DUAL COMPRESSOR SYSTEMS.

MINI-SPLIT SYSTEM (COOLING ONLY) SCHEDULE																						
INDOOR UNIT TAG	OUTDOOR UNIT TAG	LOCATION	COOLING PERFORMANCE				INDOOR UNIT				OUTDOOR UNIT				MANUFACTURER	MODEL	NOTES					
			CAPACITY (MBH)	EER	REFRIG. TYPE	DRY CFM	WET CFM	WEIGHT (lb)	POWER	MAX FUSE	MCA	FAN FLA	WEIGHT (lb)	POWER				MAX FUSE	MCA	FAN FLA		
IDU-1	ODU-1	102 SERVER	12.0	13.3	R-410a	265	215	28	208V/1Ph/60Hz	-	1.0	0.19	92	208V/1Ph/60Hz	28	11.0	0.5	11.0	0.5	MITSUBISHI	PKA-A12LA / PLY-A12NKA7	

- NOTES:**
- PROVIDE NEW FILTER FOR ALL UNITS UPON ACCEPTANCE OF PROJECT.
 - FIELD MOUNTED DISCONNECT SWITCH TO BE PROVIDED & INSTALLED BY E.C.
 - PROVIDE 7-DAY PROGRAMMABLE AUTO-CHANGEOVER HEAT/COOL THERMOSTAT/ SUBBASE W/ CLEAR LOCKING COVER FOR EACH UNIT.
 - OUTDOOR UNITS SHALL HAVE MINIMUM 15.0 SEER RATING.
 - REFRIGERATION PIPING TO BE SIZED PER THE TOTAL INSTALLED EQUIVALENT LENGTH. PROVIDE LONG LINE REFRIGERANT PIPING KIT (INCLUDING LIQUID LINE SOLENOID VALVES, ACCUMULATOR, ETC.) WHENEVER MANUFACTURER'S RECOMMENDED LENGTHS ARE EXCEEDED. SEE INSTALLATION INSTRUCTIONS FOR MANUFACTURER'S RECOMMENDED EQUIVALENT REFRIGERANT PIPING LENGTHS PRIOR TO PERFORMING ANY WORK.
 - SINGLE POINT ELEC. POWER CONNECTION.
 - CONDENSATE OVERFLOW SWITCH.
 - INDOOR UNIT POWERED FROM OUTDOOR UNIT.

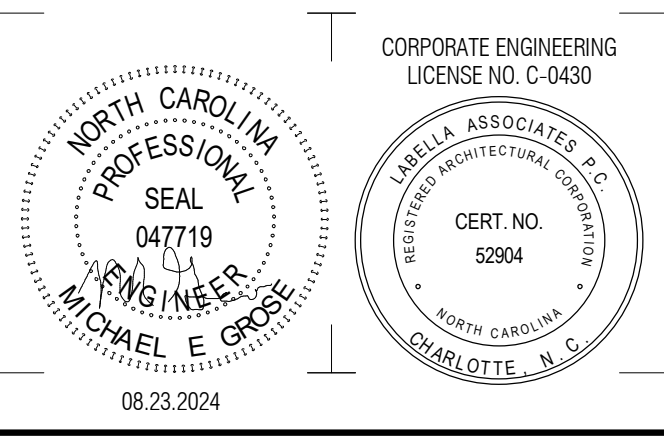
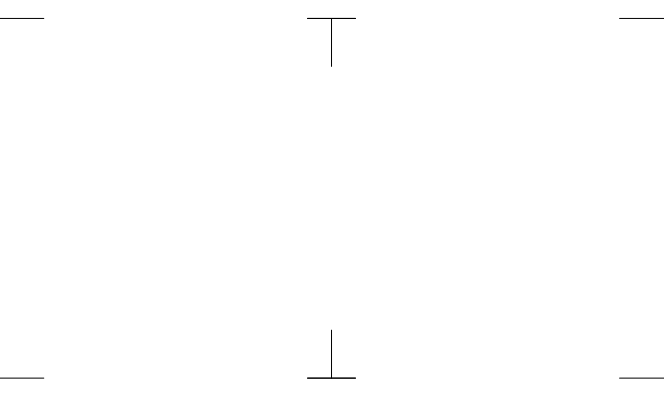
EXHAUST FAN SCHEDULE													
No.	LOCATION	SERVICE	TYPE	CFM	ESP (in.)	Electrical Data			SONES	WEIGHT (lb)	MANUFACTURER	MODEL	NOTES
						W	FLA	PH					
EF-1	107 WOMEN	EXHAUST	CEILING CENTRIFUGAL	80	0.25	16.7	120V/1Ph	0.14	0.4	12	GREENHECK	SP-A90	1-7
EF-2	108 MEN	EXHAUST	CEILING CENTRIFUGAL	80	0.25	16.7	120V/1Ph	0.14	0.4	12	GREENHECK	SP-A90	1-7
EF-3	109 JANITOR	EXHAUST	CEILING CENTRIFUGAL	80	0.25	16.7	120V/1Ph	0.14	0.4	12	GREENHECK	SP-A90	1-7

- NOTES:**
- INTERLOCK WITH LIGHTS
 - BIRDSCREEN
 - BACKDRAFT DAMPER
 - INTEGRAL DISCONNECT SWITCH
 - UL LISTED
 - VIBRATION ISOLATION
 - PROVIDE WITH A ROOF CAP

DIFFUSER SCHEDULE											
No.	NECK SIZE (Dia.)	FACE SIZE	MATERIAL	DAMPER	MOUNTING	FINISH	USE	DESCRIPTION	MANUFACTURER	MODEL	NOTES
B	6"	24"x24"	ALUMINUM	VOLUME	LAY-IN / SURFACE	NOTE 1	SUPPLY	PLAQUE FACE DIFFUSER	TITUS	OMNI-AA	1
C	8"	24"x24"	ALUMINUM	VOLUME	LAY-IN / SURFACE	NOTE 1	SUPPLY	PLAQUE FACE DIFFUSER	TITUS	OMNI-AA	1
D	10"	24"x24"	ALUMINUM	VOLUME	LAY-IN / SURFACE	NOTE 1	SUPPLY	PLAQUE FACE DIFFUSER	TITUS	OMNI-AA	1
E	8"	24"x24"	ALUMINUM	NONE	LAY-IN / SURFACE	NOTE 1	RETURN	PERFORATED FACE DIFFUSER	TITUS	PAR-AA	1
F	10"	24"x24"	ALUMINUM	NONE	LAY-IN / SURFACE	NOTE 1	RETURN	PERFORATED FACE DIFFUSER	TITUS	PAR-AA	1
G	12"	24"x24"	ALUMINUM	NONE	LAY-IN / SURFACE	NOTE 1	RETURN	PERFORATED FACE DIFFUSER	TITUS	PAR-AA	1
H	20"	24"x24"	ALUMINUM	NONE	LAY-IN / SURFACE	NOTE 1	RETURN	PERFORATED FACE DIFFUSER	TITUS	PAR-AA	1
S1	4"x2"	6"x5"	ALUMINUM	VOLUME	SURFACE	NOTE 1	SUPPLY	SUPPLY GRILLE W/ 3/4" SPACING	TITUS	300FS	1, 2
S2	8"	6"x8"	ALUMINUM	VOLUME	SIDEWALL / SURFACE	NOTE 1	SUPPLY	1" LINEAR SLOT DIFFUSER	TITUS	ML-39	1, 2

- NOTES:**
- FINISH TO MATCH CEILING, WALL OR DUCTWORK
 - COORDINATE EXACT HEIGHT OF DIFFUSERS W/ G.C. AND ARCHITECTURAL

DESIGN BRIEF - VENTILATION CALCULATIONS													
<p>NOTES:</p> <p>Occupancy (Pz) = [Occupant Density / 1000] * Area (Az) Standard Classroom (770 to 1,000 sq.ft.) = 30 people max. Vbz = RpPz + RaAz Voz = Vbz / Ez</p>													
Room Number	Room Name	Classification	Area (Az) (sq.ft.)	Occupant Density (#/1000 sq.ft.)	OA/Person (Rp)	Outdoor Air Rate (Ra)	Exhaust Rate	Config. (Ez)	Occupancy (Pz)		Breathing Zone Rate (Vbz) (cfm)	Zone Outdoor Airflow Rate (Voz) (cfm)	Space Exhaust Rate (cfm)
100	VESTIBULE	CORRIDOR	85	0	0	0.06	0	0.80	0	0	5	6	0
101	LOBBY/WAITING	LOBBIES	1991	15	8	0.06	0	0.80	30	31	367	459	0
102	SERVER	TELEPHONE CLOSETS	129	0	0	0	0	0.80	0	0	0	0	0
103	BALANCE	OFFICE SPACE	179	5	5	0.06	0	0.80	1	1	16	20	0
104	TELLER	OFFICE SPACE	401	5	5	0.06	0	0.80	2	3	39	49	0
105	STORAGE	STORAGE	84	2	5	0.06	0	0.80	0	1	10	13	0
106	LACTATION	OFFICE SPACE	71	5	5	0.06	0	0.80	0	1	9	12	0
107	WOMEN	TOILETS	67	0	0	0	0.71	0.80	0	0	0	0	80
108	MEN	TOILETS	97	0	0	0	0.71	0.80	0	0	0	0	80
109	JANITOR	JANITOR CLOSET	20	0	0	0	0	0.80	0	0	0	0	80
110	PASSAGE	CORRIDOR	168	0	0	0.06	0	0.80	0	0	10	13	0
111	BREAK ROOM	BREAKROOMS	345	50	5	0.12	0	0.80	17	18	131	164	0
112	OFFICE	OFFICE SPACE	112	5	5	0.06	0	0.80	1	1	12	15	0
113	PRINT ROOM	OFFICE SPACE	107	5	5	0.06	0	0.80	1	1	11	14	0
114	OFFICE	OFFICE SPACE	118	5	5	0.06	0	0.80	1	1	12	15	0
115	OFFICE	OFFICE SPACE	115	5	5	0.06	0	0.80	1	1	12	15	0
116	OFFICE	OFFICE SPACE	115	5	5	0.06	0	0.80	1	1	12	15	0
117	OFFICE	OFFICE SPACE	115	5	5	0.06	0	0.80	1	1	12	15	0
118	OFFICE	OFFICE SPACE	114	5	5	0.06	0	0.80	1	1	12	15	0
119	OFFICE	OFFICE SPACE	114	5	5	0.06	0	0.80	1	1	12	15	0
120	ATM	STORAGE	47	0	0	0.12	0	0.80	0	0	6	7	0
121	STORAGE	STORAGE	71	0	0	0.12	0	0.80	0	0	9	11	0
122	OFFICE	OFFICE SPACE	125	5	5	0.06	0	0.80	1	1	13	16	0



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LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: MG / MM

REVIEWED BY: MG

ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NAME:

MECHANICAL SCHEDULES

DRAWING NUMBER:

M601

ELECTRICAL SPECIFICATIONS

SECTION 01 - GENERAL PROVISIONS

01 SCOPE

THE WORK COVERED BY THESE SPECIFICATIONS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES, AND MATERIALS, AND PERFORMING ALL OPERATIONS, INCLUDING TRENCHING, BACKFILLING, CHANNELS, CHASING, AND PATCHING NECESSARY FOR THE INSTALLATION OF COMPLETE WIRING SYSTEMS IN STRICT ACCORDANCE WITH DIVISION 16 OF THESE SPECIFICATIONS, AND THE APPLICABLE DRAWINGS, INSTRUCTION TO BIDDERS, GENERAL CONDITIONS, AND DIVISION ONE, GENERAL REQUIREMENTS.

02 GENERAL

A. THE INSTALLATION SHALL COMPLY WITH THE APPLICABLE RULES OF THE NATIONAL ELECTRICAL CODE AND RULES AND REGULATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION, IN NO CASE SHALL THE MATERIALS AND WORKMANSHIP FAIL TO MEET THE MINIMUM REQUIREMENTS OF THE 2020 NATIONAL ELECTRICAL CODE.

1. THE REGULATIONS OF THE LOCAL UTILITY SHALL GOVERN SERVICE CONNECTIONS AND METERING PROVISIONS.
2. AN ELECTRICAL INSPECTION CERTIFICATE SHALL BE ISSUED BY THE LOCAL AUTHORITY BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.
3. THIS CONTRACTOR SHALL DO ALL CUTTING NECESSARY FOR THE PROPER INSTALLATION OF THIS WORK AND SHALL REPAIR ANY DAMAGE DONE BY HIMSELF OR HIS WORKMEN TO CEILINGS, WALLS, FLOORS, PAVING, AND SEEDED AREAS.

B. SITE INSPECTION. EACH ELECTRICAL BIDDER SHALL VISIT THE SITE OF WORK AND FAMILIARIZE HIMSELF WITH THE CHARACTER AND CONDITIONS OF THE SITE AND THE PROPOSED BUILDING.

C. MATERIALS. ALL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT USED IN THIS WORK SHALL BE NEW AND APPROVED BY THE UNDERWRITERS' LABORATORIES IN EVERY CASE WHERE THEY HAVE ESTABLISHED A STANDARD FOR THE PARTICULAR TYPE OF MATERIALS TO BE INSTALLED OR SHALL BE LABEL LISTED BY A NORTH CAROLINA APPROVED THIRD PARTY TESTING AGENCY.

1. ALL LIGHTING FIXTURES SHALL BEAR THE LABEL OF UNDERWRITERS' LABORATORIES OR BE LISTED UNDER THE REEXAMINATION SERVICE.
2. CATALOG NUMBERS AND TRADE NAMES IN THESE SPECIFICATIONS AND NOTED ON THE DRAWINGS ARE INTENDED TO DESCRIBE THE MATERIAL, DEVICE, OR APPARATUS WANTED.

D. SUPERVISION. THE CONTRACTOR SHALL BE IN CHARGE OF THE WORK AT ALL TIMES DURING CONSTRUCTION. A THOROUGHLY COMPETENT FOREMAN WITH EXTENSIVE EXPERIENCE IN THE WORK TO BE PERFORMED UNDER THE CONTRACT. ANYONE DEEMED NOT CAPABLE BY THE ENGINEER SHALL BE REPLACED IMMEDIATELY UPON REQUEST AND AFTER A SATISFACTORY FOREMAN HAS BEEN ASSIGNED HE SHALL NOT BE WITHDRAWN WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

E. TESTS. A FULL SCALE TEST WITH ALL LIGHTS, EQUIPMENT, AND APPLIANCES IN OPERATION SHALL BE CONDUCTED BY THE CONTRACTOR AT HIS EXPENSE AND THE ELECTRICAL SYSTEM SHALL BE PROVEN SATISFACTORY FOR OPERATION AND FREE FROM DEFECTS. PARTICULAR ATTENTION SHALL BE PAID TO THE BALANCING OF THE SINGLE PHASE LOADS ON THE THREE PHASE SYSTEM. ANY AND ALL DEFECTS SHALL BE PROMPTLY REMEDIED.

1. THE CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE FIXTURES ARE CONNECTED AND HE SHALL DEMONSTRATE BY MEGGER TEST THE INSULATION RESISTANCE OF ANY CIRCUIT OR GROUP OF CIRCUITS, WHERE SUCH INSULATION RESISTANCE TEST INDICATES THE POSSIBILITY OF FAULTY INSULATION. THE CONTRACTOR SHALL LOCATE THE POINT OR POINTS OF SUCH FAULTY INSULATION, AND HE SHALL PULL OUT THE CONDUCTOR AT FAULT, REPLACE WITH NEW CONDUCTORS, AND DEMONSTRATE BY FURTHER TEST THE ELIMINATION OF SUCH FAULT AT HIS OWN EXPENSE.
2. READINGS PHASE-TO-PHASE, PHASE-TO-NEUTRAL & PHASE-TO-GROUND SHALL BE 2 MEGAOHMS OR GREATER.

03 GROUNDING AND BONDING

ALL CONDUIT, NEUTRAL CONDUCTORS OF THE WIRING SYSTEMS, AND ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED. THE GROUND CONNECTION OF THE ELECTRICAL SYSTEM NEUTRAL AND CONDUIT SYSTEM SHALL BE MADE AT THE MAIN SERVICE SWITCH OR CIRCUIT BREAKER. ALL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL HAVE A GREEN GROUNDING CONDUCTOR IN ADDITION TO THE PHASE AND NEUTRAL CONDUCTORS.

A. A THW COPPER GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC SHALL BE EXTENDED IN CONDUIT FROM THE MAIN SERVICE EQUIPMENT TO THE POINT OF ENTRANCE OF THE WATER SERVICE. THE CONDUIT SHALL BE BONDED TO THE GROUNDING CONDUCTOR AT EACH END OF THE CONDUIT. CONNECTION TO WATER PIPE SHALL BE BY SUITABLE GROUND CLAMP OR BY LUG CONNECTION TO A PLUGGED TEE. IF FLANGED PIPES ARE ENCOUNTERED, CONNECTION SHALL BE MADE WITH THE LUG BOLTED TO THE SUPPLY SIDE OF THE FLANGED CONNECTION. ELECTRICAL BOND SHALL BE ESTABLISHED AROUND THE WATER METER IF APPLICABLE.

SECTION 02 - BASIC MATERIALS AND METHODS

01 REQUIREMENTS OF SECTION 1601 SHALL APPLY.

02 WIRING. ALL WIRING SHOWN ON THE CONTRACT DRAWING SHALL BE IN CONDUIT UNLESS OTHERWISE HEREAFTER SPECIFIED.

A. BRANCH CIRCUIT CONDUCTORS SHALL BE AS INDICATED ON THE DRAWINGS.
B. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET, AND NO SPLICES SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES. JUNCTION BOXES MAY BE UTILIZED WHERE REQUIRED.

03 CONDUIT SYSTEMS. CONDUIT SHALL BE RIGID STEEL CONDUIT, INTERMEDIATE METAL CONDUIT, OR ELECTRICAL METALLIC TUBING (EMT), EMT SHALL NOT BE INSTALLED UNDERGROUND OR IN SLABS ON GRADE.

A. AT THE CONTRACTOR'S OPTION RIGID SCHEDULE 40 NONMETALLIC CONDUIT (PVC) MAY BE USED IN LIEU OF STEEL CONDUIT WHERE INSTALLED UNDER BUILDING SLABS OR UNDERGROUND, AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ARTICLE 352 OF THE NEC. RIGID STEEL CONDUIT SHALL BE USED WHERE BEND GREATER THAN 45 DEGREES ARE REQUIRED. EXPOSED PVC CONDUIT SHALL NOT BE PERMITTED.
B. AT THE CONTRACTOR'S OPTION MC CABLE SHALL BE ALLOWED WHEN IN STRICT ACCORDANCE WITH THE NEC AND ALL OTHER PERTINENT CODES.

04 CONDUIT INSTALLATION.

A. CONDUITS SHALL BE CONCEALED WITHIN WALLS, CEILINGS, AND FLOOR WHERE POSSIBLE. EXPOSED RUNS OF CONDUIT SHALL BE SUPPORTED EVERY 8' WITH APPROVED TYPE SUPPORTS.
B. GALVANIZED STEEL INSULATION THROAT COMPRESSION RING TYPE FITTINGS SHALL BE USED FOR EMT WORK.
C. PULL CORDS SHALL BE INSTALLED IN ALL EMPTY CONDUITS. NO CONDULET TYPE FITTINGS SHALL BE ALLOWED ON SERVICE CONDUITS OR ANY OTHER CONDUIT 2" OR LARGER.

D. WHERE STEEL AND PVC CONDUIT IS INSTALLED UNDERGROUND OR UNDER BUILDING SLABS JOINTS SHALL BE MADE WATERTIGHT. ALL CONDUIT INSTALLED UNDERGROUND SHALL BE ENCASED IN A MINIMUM OF 3" OF CONCRETE WITH 2" SEPARATION BETWEEN ADJACENT CONDUITS.
E. UNDERGROUND CONDUIT OUTSIDE THE BUILDING SHALL HAVE A MINIMUM COVER OF 2" AND IF POSSIBLE SHALL BE GRADED SO AS TO HAVE A FALL OF AT LEAST 3" PER 100' TOWARD A DRAINAGE POINT.

1. ALL UNDERGROUND STEEL CONDUITS SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTUM OR BITUMASTIC AND SHALL BE RETOUCHED AS REQUIRED AFTER BEING MADE UP.
2. GALVANIZED STEEL INSULATION THROAT COMPRESSION RING TYPE FITTINGS SHALL BE USED FOR EMT WORK.

05 SECONDARY CONDUCTORS. A COMPLETE SYSTEM OF CONDUCTORS SHALL BE INSTALLED IN THE RACEWAY SYSTEM. ONLY POWDERED SOAPSTONE OR OTHER NON-DETERIOROUS LUBRICANT APPROVED BY THE ENGINEER MAY BE USED IN PULLING CONDUCTORS IN CONDUIT.

A. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED. STEEL SHALL BE HEAT AND MOISTURE RESISTANT GRADE, THERMOPLASTIC INSULATED, TYPE THW, THWN, THHN, OR XHHW AS APPLICABLE.
1. CONDUCTORS NO. 8 AWG AND LARGER SHALL BE STRANDED COPPER. NO. 12 AWG AND NO. 10 AWG SHALL BE SOLID COPPER.
B. HOMERUNS MAY BE COMBINED IN ONE CONDUIT, PROVIDED ALL CONNECTIONS ARE IN ACCORDANCE WITH NEC REQUIREMENTS AND THE MAXIMUM UNBALANCED CURRENT IN THE NEUTRAL DOES NOT EXCEED THE CAPACITY OF THE CONDUCTOR.
C. COLOR CODE. ALL CONDUCTORS, FEEDERS, AND BRANCH CIRCUITS SHALL BE COLOR CODED BY PHASE AND SHALL BE PLAINLY MARKED IN ACCORDANCE WITH SECTIONS 210.5(C) AND 200.6 OF THE NEC, COLOR CODES SHALL BE AS FOLLOWS:
1. 120/240 VOLT, 3-PHASE, 4-WIRE HIGH LEG DELTA SYSTEMS: PHASE A, BLACK; PHASE B (HIGH LEG), ORANGE; PHASE C, BLUE; GROUNDED NEUTRAL, WHITE.
2. 120/208 VOLT, 3-PHASE, 4-WIRE SYSTEM: PHASE A, BLACK; PHASE B, RED; PHASE C, BLUE; GROUNDED NEUTRAL, WHITE.
3. 277/480 VOLT, 3-PHASE, 4-WIRE SYSTEM: PHASE A, BROWN; PHASE B, ORANGE; PHASE C, YELLOW; GROUNDED NEUTRAL, GREY.
4. GROUNDING CONDUCTORS SHALL BE GREEN FOR ALL SYSTEMS.

06 SERVICE. SERVICE ENTRANCE CONDUCTORS SHALL BE INDIVIDUAL CONDUCTORS IN CONDUIT, AS PREVIOUSLY SPECIFIED, FROM THE POWER COMPANY TRANSFORMER TO SERVICE SECTION OF THE MAIN SERVICE EQUIPMENT, ALL AS INDICATED ON THE DRAWINGS.

07 PANELBOARDS A. PANELBOARDS SHALL BE OF THE DEAD FRONT SAFETY TYPE. THE PANELBOARDS SHALL BE PROVIDED WITH THE SIZE AND NUMBER OF SINGLE, DOUBLE, OR TRIPLE POLE BRANCH CIRCUIT BREAKERS, BOLTED TO THE BUS, AS INDICATED ON THE DRAWINGS. PANELBOARD BUS SHALL BE COPPER.
1. CIRCUIT BREAKERS SHALL BE OF THE AUTOMATIC THERMAL MAGNETIC TYPE, QUICK-MAKE AND QUICK-BREAK FOR MANUAL AND AUTOMATIC OPERATION. ALL MULTI-POLE BREAKERS SHALL BE COMMON TRIP. HANDLE TIES WILL NOT BE ACCEPTABLE. PANELBOARDS SHALL BE PROVIDED WITH A GROUNDING TERMINAL BAR BONDED TO THE CABINET OR PANELBOARD FRAME.
2. CIRCUIT BREAKERS FOR ALL TWO(2) AND THREE(3) CIRCUIT HOMERUNS WITH A COMMON NEUTRAL SHALL BE EQUIPPED WITH A "TE HANDLE" IN ORDER TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS THAT SHARE A COMMON NEUTRAL IN ACCORDANCE WITH NEC ART. 210.4(A),(B),&(C).
B. PANELBOARDS USED AS SERVICE EQUIPMENT SHALL HAVE U.L. LISTING AS "SUITABLE FOR USE AS SERVICE EQUIPMENT", AND SHALL BE SO MARKED.
C. SQUARE-D PANELBOARD, FUSED SWITCH, AND CIRCUIT BREAKER DESIGNATIONS ARE USED HEREIN AND ON THE DRAWINGS, BUT SIMILAR AND EQUAL PRODUCTS OF G.E., SIEMENS, OR CUTLER HAMMER ARE EQUALLY ACCEPTABLE. ALL CIRCUIT BREAKERS SHALL BE CALIBRATED FOR 40-DEGREES "C" OR BE AMBIENT COMPENSATED. CIRCUIT BREAKERS SHALL HAVE U.L. INTERRUPTING RATINGS AS INDICATED BY CLASS OF CIRCUIT BREAKER SHOWN ON THE DRAWINGS.
D. ALL 3-PHASE, 4-WIRE GROUNDED NEUTRAL OR 3-PHASE, 3-WIRE POWER OR DISTRIBUTION PANELBOARDS SHALL BE SQUARE-D "HC" WITH CIRCUIT BREAKERS OF NAMES AND TYPE NOTED ON SCHEDULES.
E. 120/208-VOLT, 3-PHASE, 4-WIRE, GROUNDED SOLID NEUTRAL LIGHTING PANELBOARDS SHALL BE SQUARE-D "M2". UNLESS OTHERWISE NOTED, 2-POLE CIRCUIT BREAKERS MAY BE RATED FOR 120/240-VOLT AC, COMMON TRIP AND HANDLE.
F. 277/480 VOLT, 3-PHASE, 4-WIRE GROUNDED, SOLID NEUTRAL LIGHTING PANELBOARDS SHALL BE SQUARE-D "NP" AND SHALL ACCEPT 2-POLE AND 3-POLE CIRCUIT BREAKERS.

08 CIRCUIT BREAKERS. A. INDIVIDUAL CIRCUIT BREAKERS SHALL BE THE MOLDED CASE TYPE OF THE FRAME AND TRIP RATING NOTED ON THE DRAWINGS IN NEMA 1 ENCLOSURE UNLESS NOTED OTHERWISE. FRAMES LISTED ARE SQUARE-D BUT EQUIVALENT CIRCUIT BREAKERS BY G.E., SIEMENS, OR WESTINGHOUSE ARE EQUALLY ACCEPTABLE.
1. ALL CIRCUIT BREAKERS SHALL BE AMBIENT COMPENSATED OR CALIBRATED FOR 40-DEGREES "C". CIRCUIT BREAKERS SHALL HAVE U.L. INTERRUPTING RATINGS AS INDICATED BY CLASS OF CIRCUIT BREAKERS SHOWN ON THE DRAWINGS.

09 DISCONNECTS. A. FUSED DISCONNECTING SWITCHES SHALL BE SQUARE-D TYPE "H" IN NEMA 1 ENCLOSURES, RATED FOR 250 OR 600-VOLTS AS APPLICABLE. UNLESS OTHERWISE NOTED, FUSES SHALL BE BUS FUSETRONS OR APPROVED EQUAL.
B. UNFUSED DISCONNECTING SWITCHES SHALL BE TYPE "H" IN NEMA 1 OR 3R AS APPLICABLE ENCLOSURES.
1. SIMILAR AND EQUIVALENT EQUIPMENT AS MANUFACTURED BY G.E., SIEMENS, OR WESTINGHOUSE IS EQUALLY ACCEPTABLE. SWITCHES USED AS SERVICE SWITCHES SHALL BEAR SUCH U.L. LABEL, AND NAMEPLATE ON SWITCH SHALL SO INDICATE.

10 DEVICE PLATES. ALL DEVICE PLATES ON FLUSH OUTLETS SHALL BE "302" STAINLESS STEEL AND ON SURFACE BOXES SHALL BE GALVANIZED STEEL. DEVICES SHALL BE GRAY, UNLESS OTHERWISE NOTED.

11 OUTLET AND JUNCTION BOXES. OUTLET BOXES SHALL BE GALVANIZED SHEET STEEL OF A CLASS TO SATISFY THE CONDITIONS FOR EACH OUTLET. JUNCTION AND PULL BOXES SHALL BE CODE GAUGE. GALVANIZED SHEET METAL BOXES SHALL NOT BE LESS THAN THE MINIMUM SIZE RECOMMENDED BY THE NEC. EACH OUTLET AND JUNCTION BOX SHALL BE FITTED WITH AN APPROPRIATE COVER.

12 PANELBOARD CABINETS. CABINETS FOR PANELBOARDS, UNLESS OTHERWISE NOTED, SHALL HAVE A MINIMUM WIDTH OF 20" AND SHALL BE PROVIDED WITH NO LESS THAN 4" WIRING GUTTERS AT THE SIDES, TOP, AND BOTTOM. CABINETS SHALL BE CONSTRUCTED OF ZINC COATED SHEET STEEL.
A. PANELBOARDS SHALL BE OF THE DEAD FRONT SAFETY TYPE. THE PANELBOARDS SHALL BE PROVIDED WITH THE SIZE AND NUMBER OF SINGLE, DOUBLE, OR TRIPLE POLE BRANCH CIRCUIT BREAKERS. PANELBOARD BUS SHALL BE COPPER.

13 DEMOLITION AND ALTERATION. THIS CONTRACTOR SHALL EITHER REMOVE COMPLETELY, OR MECHANICALLY OR ELECTRICALLY SECURE ALL ELECTRICAL CONDUIT, CONDUCTORS, AND OUTLETS WHICH ARE SHOWN AS BEING ABANDONED. ELECTRICAL MATERIALS AND EQUIPMENT WHICH ARE SHOWN AS BEING REMOVED OR REPLACED SHALL, UNLESS OTHERWISE NOTED, TO BE RELOCATED OR REUSED, BE TURNED OVER TO THE OWNER. ALL EXISTING ELECTRICAL OUTLETS NOT SHOWN AS BEING ABANDONED, SHALL BE RECONNECTED.

ELECTRICAL SYMBOLS

THE ELECTRICAL SYMBOLS HEREAFTER LISTED ARE A BASIC STANDARD FOR ALL PROJECTS AS APPLICABLE. EACH AND EVERY SYMBOL MAY NOT NECESSARILY APPEAR ON THE SPECIFIC PROJECT DRAWINGS. ALL DIMENSIONS ARE TO TOP OF THE OUTLET BOX UNLESS OTHERWISE NOTED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT OUTLET HEIGHT WITH COUNTERS, BACKSPASHES, WAINSCOT, AND EQUIPMENT TO ASSURE PROPER MOUNTING HEIGHTS.

- CONDUIT CONCEALED IN OR ABOVE CEILING, IN OVERHEAD SLAB OR IN WALL, AS APPLICABLE.
CONDUIT CONCEALED IN OR BELOW FLOOR, BELOW GRADE OR IN WALL, AS APPLICABLE.
CONDUIT EXPOSED ON SURFACE OF CEILING, OVERHEAD STRUCTURE OR WALL AS APPLICABLE.
NUMBER OF CURRENT CARRYING CONDUCTORS PLUS NEUTRAL IF REQUIRED. EQUIPMENT GROUNDING CONDUCTORS SIZED PER N.E.C. ARE NOT INCLUDED IN QUANTITY INDICATED, BUT SHALL BE INCLUDED IN ALL RACEWAYS.
CONDUIT TURNING UP/CONDUIT TURNING DOWN.
CONDUIT STUB UP 6" AFF WITH CONNECTION TO EQUIPMENT.
HOMERUN TO PANELBOARD, MOTOR CONTROL CENTER, OR SWITCHBOARD AS APPLICABLE.
JUNCTION BOX SIZED PER N.E.C. UNLESS OTHERWISE INDICATED.
JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT.
SINGLE OR DOUBLE POLE SWITCH AS INDICATED, MOUNTED 48" AFF.
THREE-WAY OR FOUR-WAY SWITCH AS INDICATED, MOUNTED 48" AFF.
SWITCH AS SPECIFIED ABOVE WITH CAST WEATHERPROOF COVER AND OUTLET AND BOX ADAPTER IF REQUIRED.
SWITCH WITH DIMMING CAPABILITIES. CONTRACTOR TO COORDINATE DIMMING SWITCHES WITH FIXTURE DIMMING PROTOCOLS.
WALL MOUNTED OCCUPANCY SENSOR, WITH DUAL TECHNOLOGY. AUTO ON/OFF. FIELD CHANGEABLE TO VACANCY SENSOR.
CEILING MOUNTED OCCUPANCY SENSOR, WITH DUAL TECHNOLOGY. AUTO ON/OFF. FIELD CHANGEABLE TO VACANCY SENSOR.
NEMA 5-20R DUPLEX CONVENIENCE RECEPTACLE MOUNTED 20", UNLESS NOTED OTHERWISE.
NEMA 5-20R DUPLEX CONVENIENCE RECEPTACLE MOUNTED 48" AFF OR BACKSPASH.
RECEPTACLE AS SPECIFIED ABOVE EXCEPT WITH INTEGRATED GROUND FAULT CIRCUIT INTERRUPTER (GFCI).
CONCEALED SERVICE FLOOR OUTLET WITH ONE OR TWO NEMA 5-15R DUPLEX RECEPTACLES AS INDICATED. LEGRAND NO. RFB2, RFB4 OR RFB6 WITH APPLICABLE FACEPLATES AS REQUIRED.
CONCEALED SERVICE FLOOR OUTLET FOR POWER (NEMA 5-15R DUPLEX) AND COMMUNICATIONS. LEGRAND NO. RFB2, RFB4 OR RFB6 WITH APPLICABLE FACEPLATES AS REQUIRED.
GFCI RECEPTACLE SIMILAR TO THOSE SPECIFIED ABOVE EXCEPT U.L. "WR" (WEATHER-RESISTANT) LISTED AND PROVIDED WITH A WEATHERPROOF COVER.
DEAD FRONT GFCI PROTECTIVE DEVICE WITH TEST/RESET BUTTONS AND STATUS INDICATOR AS REQUIRED PER NEC ARTICLE 210.8 OR 422.5. INSTALL IN READILY ACCESSIBLE LOCATION THAT IS NEAR THE PROTECTED APPLIANCE RECEPTACLE. PROVIDE ENGRAVED NAMEPLATE INDICATING PROTECTED OUTLET OR APPLIANCE (e.g., DISHWASHER, REFRIGERATOR, VENDING MACHINE, ETC.).
WALL OUTLET FOR SECU DATA. 20" TO OF BOX, OR 48" TO TOP OF BOX IF DENOTED WITH DOT. PROVIDE 3/4" EC TO ABOVE ACCESSIBLE CEILING. COORDINATE WITH OWNER.
WALL OUTLET FOR LCCU TELECOMMUNICATIONS. 20" TO TOP OF BOX, OR 48" TO TOP OF BOX IF DENOTED BY DOT. PROVIDE 3/4" EC TO ABOVE ACCESSIBLE CEILING. COORDINATE WITH OWNER.
WALL OUTLET FOR LCCU DATA. 20" TO TOP OF BOX, OR 48" TO TOP OF BOX IF DENOTED BY DOT. PROVIDE 3/4" EC TO ABOVE ACCESSIBLE CEILING. COORDINATE WITH OWNER.
LIGHTING POWER OR DISTRIBUTION PANELBOARD AS INDICATED AND SCHEDULED.
EQUIPMENT CONTROL PANEL, CABINET, OR MODULE AS APPLICABLE.
DISCONNECT. NUMERALS INDICATE SIZE, POLES, AND FUSETRON SIZE. WP INDICATES NEMA 3R ENCLOSURE OR WITH OTHER ENCLOSURE AS INDICATED. SWITCHES WITHOUT FUSETRON SIZING ARE TO BE UNFUSED.
CIRCUIT BREAKER NUMERALS INDICATE AMPERE RATING, POLES, AND FRAME. WP INDICATES 3R ENCLOSURE OR WITH OTHER ENCLOSURE AS INDICATED.
MANUAL MOTOR STARTER SINGLE PHASE.
LIGHTING FIXTURE DRAWN APPROXIMATELY TO SCALE. TYPE AS INDICATED. SEE FIXTURE SCHEDULE FOR DESCRIPTION.
STRIP FIXTURE, TYPE AS INDICATED. SEE FIXTURE SCHEDULE FOR DESCRIPTION.
CEILING FIXTURE SURFACE, PENDANT OR RECESSED LED, INCANDESCENT, OR H.I.D. TYPE AS INDICATED. SEE FIXTURE SCHEDULE FOR DESCRIPTION.
WALL FIXTURE SURFACE PENDANT, RECESSED LED, INCANDESCENT, OR H.I.D. TYPE AS INDICATED. SEE FIXTURE SCHEDULE FOR DESCRIPTION.
LIGHTING FIXTURE AS SPECIFIED ABOVE, DESIGNATED AS "NITE LIGHTING". SEE LIGHTING FIXTURE NOTES.
LIGHTING FIXTURE AS SPECIFIED ABOVE EQUIPPED WITH BATTERY SYSTEM SELF CONTAINED WITHIN EACH FIXTURE, OR ON EMERGENCY CIRCUIT. PROVIDE ADDITIONAL UNSWITCHED HOT FOR BATTERY CHARGING CIRCUIT. SWITCH FIXTURE WITH NON-EMERGENCY FIXTURES IN ROOM UNLESS NOTED OTHERWISE.
SINGLE FACED EXIT SIGN; WALL OR CEILING MOUNTED AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.
CONNECTION TO EXHAUST FAN NUMBER AS INDICATED. COORDINATE CONTROLS WITH MECHANICAL CONTRACTOR. PROVIDE MANUAL MOTOR STARTER AT UNIT, AND WIRE COMPLETE.
CONNECTION TO BUILDING MOUNTED SIGN. COORDINATE CONTROLS AND CONNECTION REQUIREMENTS WITH SIGN VENDOR AND WIRE COMPLETE.
CONNECTION TO ATM. COORDINATE CONNECTION REQUIREMENTS WITH ATM MANUFACTURER AND WIRE COMPLETE.
POWER CONNECTION FOR DOOR CONTACTS. SEE E201 FOR ADDITIONAL INFORMATION.
LIGHTING CONTROL PANEL. SEE 4/E401 FOR ADDITIONAL INFORMATION.

LIGHTING FIXTURE NOTES

LIGHTING FIXTURES AND LAMPS. ALL FIXTURES SHALL BE UL LISTED AND SUPPORTED IN ACCORDANCE WITH ARTICLE 410 OF NEC. LED EMITTERS SHALL HAVE CORRELATED COLOR TEMPERATURE OF 3500K. LED FIXTURES WITH 0-10V DIMMING SHALL HAVE ISOLATED DRIVERS.

FIXTURE TYPE DESIGNATIONS ARE KEYSUCH THAT THE FIRST LETTER IN THE FIXTURE TYPE INDICATES THE GENERAL TYPE OF FIXTURE, AND THE SECOND LETTER INDICATES THE SPECIFIC FIXTURE UNDER THE GENERAL DESIGNATION.

Table with 3 columns: FIRST LETTER, W= WALL BRACKETS, I= INDUSTRIAL FIXTURE. Includes codes for flanged troffer, recessed fixture, surface fixture, pendant, wall brackets, emergency/egress fixture, outdoor area lighting, and miscellaneous.

LENS FOR ALL FLAT LENS TYPE FIXTURES SHALL BE CLEAR PRISMATIC ACRYLIC AND SHALL BE .125 INCH MINIMUM THICKNESS.

ALL FIXTURES SHALL BE SECURELY SUPPORTED IN ACCORDANCE WITH NEC ARTICLES 410.30, 410.36, AND 314.27. ALL RECESSED FIXTURES SHALL COMPLY WITH NEC ARTICLE 410.64.

SWITCHES SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH NEC ARTICLE 404. WHERE VOLTAGES BETWEEN ADJACENT DEVICES EXCEEDS 300 VOLTS, A U.L. LISTED BARRIER PER NEC 404.8(B) MUST SEPARATE THESE SWITCHES. PER NEC 404.8(C), WHERE A 120V & 277V CIRCUIT ARE CONTROLLED FROM A 2-CIRCUIT SWITCH, SWITCH SHALL BE LISTED AND MARKED FOR MULTI-CIRCUIT USE OR HAVE A VOLTAGE RATING THAT IS GREATER THAN THE LINE-TO-LINE VOLTAGE OF THE HIGHER VOLTAGE USED. WIRE INSULATION SHALL BE RATED AT 600 VAC.

NITE LIGHTING: LIGHTING FIXTURES DESIGNATED BY [Symbol] OR [Symbol] SHALL BE KNOWN AS "NITE LIGHTING" AND SHALL BE STANDARD LIGHTING FIXTURES AS SPECIFIED, CONNECTED TO THE EMERGENCY CIRCUIT.

EMERGENCY AND EXIT LIGHTING (EGRESS LIGHTING) SHALL UPON FAILURE OF NORMAL POWER, BE AUTOMATICALLY SUPPLIED FROM ITS OWN EMERGENCY UNIT BATTERY SYSTEM, SELF-CONTAINED IN EACH FIXTURE.

A. EXIT FIXTURES SHALL BE SPECIFIED IN THE FIXTURE SCHEDULE COMPLETE UNIT SHALL BE UL LISTED AND CAPABLE OF A MINIMUM OF 90 MINUTES EMERGENCY OPERATION AND SHALL HAVE AUTOMATIC, SOLID STATE CHARGER AND SEALED, RECHARGEABLE LEAD DIOXIDE BATTERY.

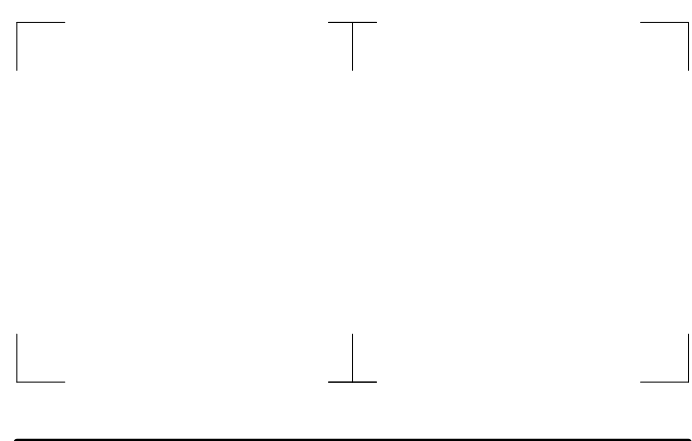
B. EMERGENCY LIGHTING FIXTURES DESIGNATED BY [Symbol] OR [Symbol] SHALL BE STANDARD FIXTURES AS SPECIFIED, EQUIPPED WITH EMERGENCY LIGHTING FEATURES. UNIT COMPONENTS SHALL CONSIST OF HIGH TEMPERATURE, SEALED, NICKEL CADMIUM BATTERY, ENCAPSULATED SOLID STATE INVERTER/CHARGER TO PROVIDE ELECTRONIC SWITCHING, BATTERY CHARGING AND EMERGENCY LAMP OPERATION. SYSTEM SHALL BE UL LISTED AND CAPABLE OF A MINIMUM OF 90 MINUTES OPERATION AT 1400 LUMENS.

LIGHTING FIXTURE SCHEDULE

Table with columns: TYPE, LAMP, DESCRIPTION, MANUFACTURER, MODEL, APPARENT LOAD, VOLTAGE. Lists various lighting fixtures like narrow LED strip light, edge lit LED exit sign, wall mounted emergency lighting, etc.



400 S. Tryon Street, Suite 1300
Charlotte, NC 28285
704-376-6423
labellapp.com



CORPORATE ENGINEERING LICENSE NO. C-0430

CERT. NO. 52604

08.23.2024

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LCCU - Morrisville Site Adapt

9521 Chapel Hill RD, Morrisville, NC 27560

Table with columns: NO., DATE, DESCRIPTION. Includes a row for Revisions.

PROJECT NUMBER: 2230150

DRAWN BY: ZCJ

REVIEWED BY: AGR

ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NAME:

ELECTRICAL COVER SHEET

ELECTRICAL SYSTEM

METHOD OF COMPLIANCE:

ENERGY CODE: [X] PRESCRIPTIVE [] PERFORMANCE
ASHRAE 90.1: [] PRESCRIPTIVE [] PERFORMANCE

LIGHTING SCHEDULE: (EACH FIXTURE TYPE) SEE FIXTURE SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE NUMBER OF BALLASTS IN FIXTURE

NUMBER OF LAMPS IN FIXTURE TOTAL WATTAGE PER FIXTURE

BALLAST TYPE USED IN THE FIXTURE

TOTAL INTERIOR WATTAGE SPECIFIED = 2437 TOTAL ALLOWED = 3820

TOTAL EXTERIOR WATTAGE SPECIFIED = 899 TOTAL ALLOWED = 3583

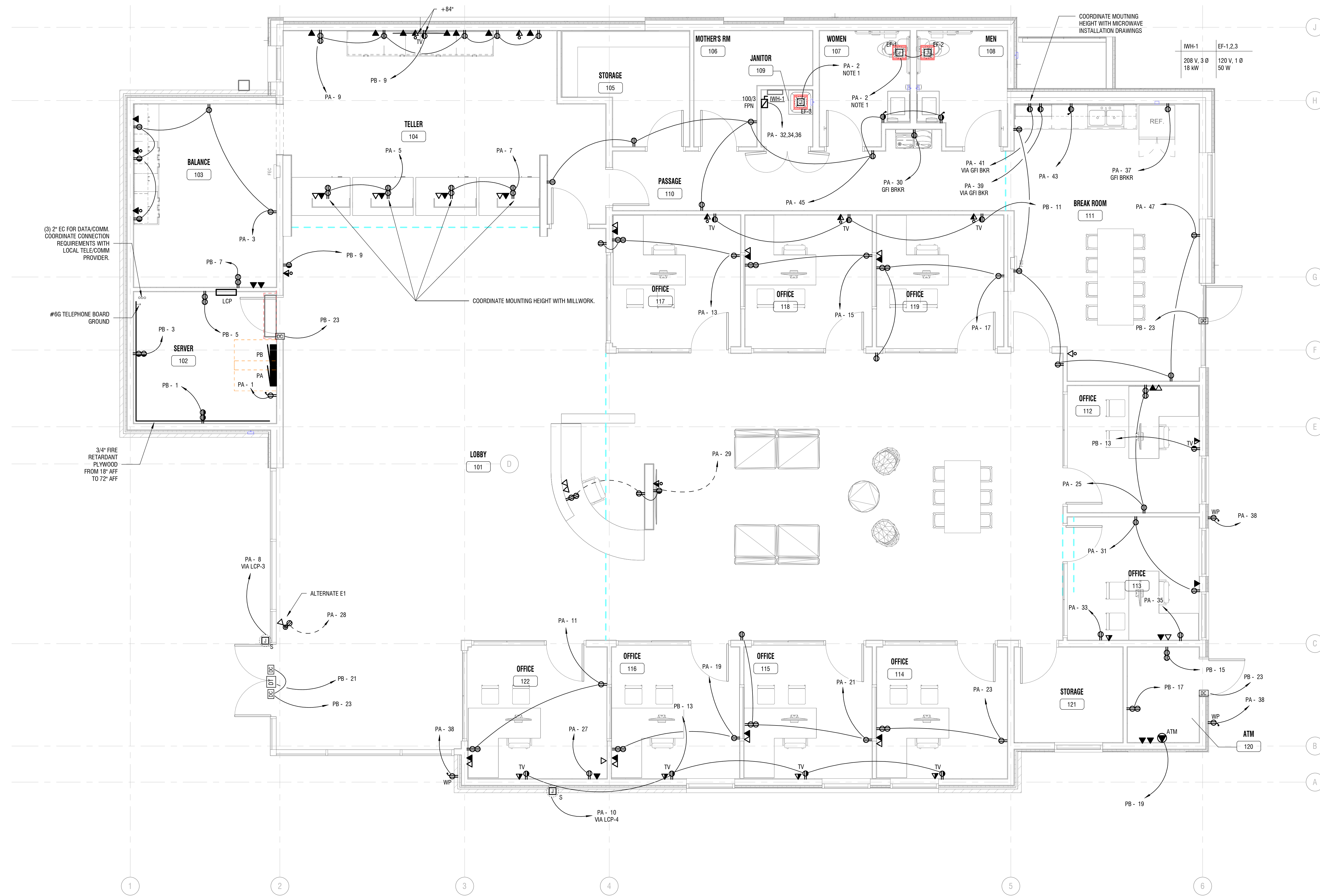
ADDITIONAL PRESCRIPTIVE COMPLIANCE:

- [X] 406.2 MORE EFFICIENT MECHANICAL EQUIPMENT
[X] 406.3 REDUCED LIGHTING POWER DENSITY
[] 406.4 ENHANCED LIGHTING CONTROLS
[] 406.5 ON-SITE SUPPLY OF RENEWABLE ENERGY
[] 406.6 DEDICATED OUTDOOR AIR SYSTEM
[] 406.7 HIGHER EFFICIENCY SERVICE WATER HEATING
[] NOT APPLICABLE

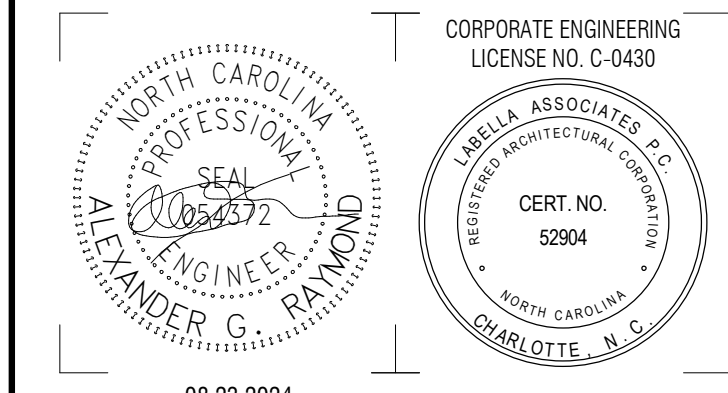
DRAWING NUMBER:

E001

ALTERNATE E1
 - INSTALL POWER AND DATA COMBINATION RECEPTACLE FOR COIN SORTER.



IWH-1	EF-1,2,3
208 V, 3 Ø	120 V, 1 Ø
18 kW	50 W



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NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		ZCJ
REVIEWED BY:		AGR
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

ELECTRICAL FLOOR PLAN

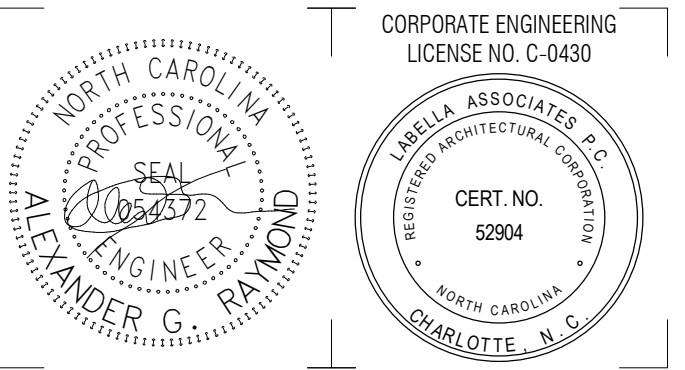
DRAWING NUMBER:

1 ELECTRICAL FLOOR PLAN
 E101 1/4" = 1'-0"

NOTES:
 1. INTERLOCK EXHAUST FAN CONTROLS WITH LIGHTING CIRCUIT IN THIS AREA.

8/23/2024 10:38:42 AM

E101



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NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2230150

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REVIEWED BY: AGR

ISSUED FOR: BID SET

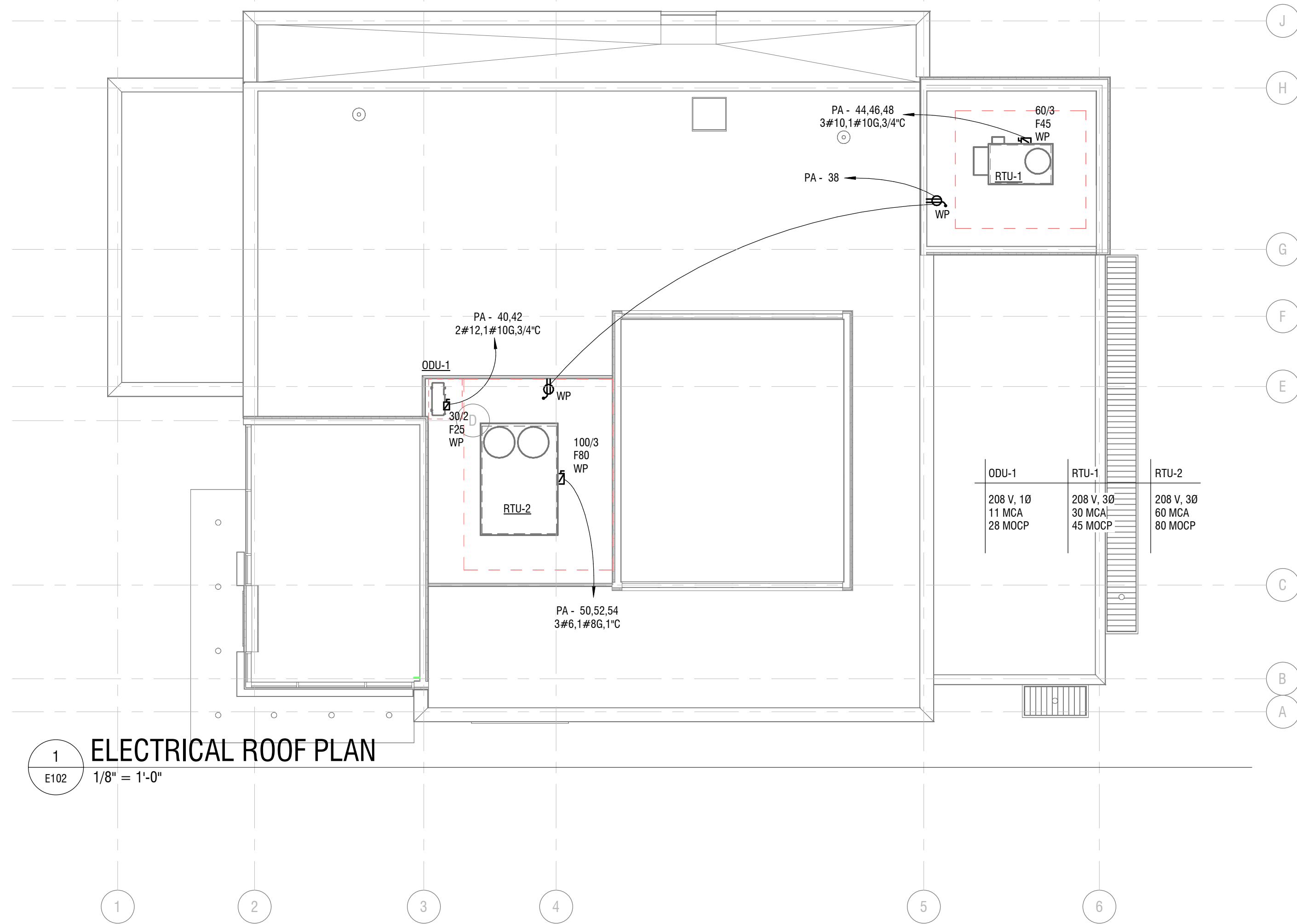
DATE: 08.23.2024

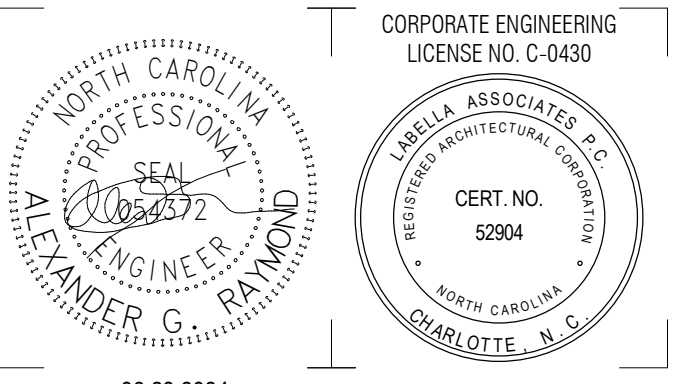
DRAWING NAME:

ELECTRICAL ROOF PLAN

DRAWING NUMBER:

E102





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PROJECT NUMBER:		2230150
DRAWN BY:		ZCJ
REVIEWED BY:		AGR
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

SECURITY FLOOR PLAN

DRAWING NUMBER:

E201

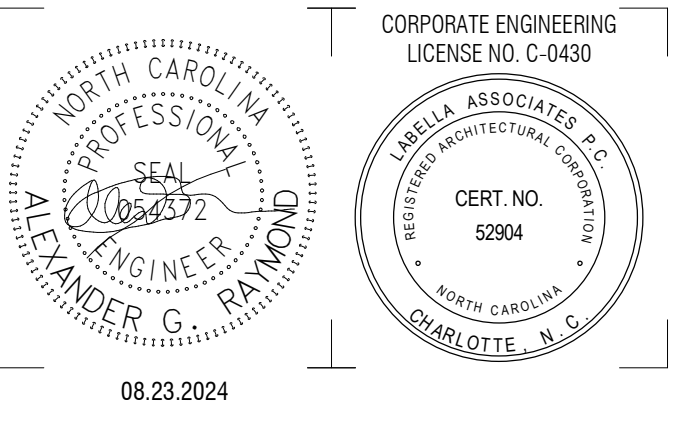
SECURITY SYMBOLS

COORDINATE ALL WORK WITH SECURITY CONTRACTOR

- [HUB] - HOLD UP BUTTON. MOUNT TO UNDERSIDE OF COUNTER. COORDINATE EXACT MOUNTING LOCATION WITH OWNER. PROVIDE 3/4" CONDUIT TO ABOVE FINISHED CEILING.
- [B] - BAIT TRAP BY OWNER.
- [DT] - DYE PACK TRANSMITTER MOUNTED ABOVE CEILING. COORDINATE EXACT LOCATION AND 120 V POWER CONNECTION WITH OWNER. WIRE COMPLETE.
- [CAM] - WALL MOUNTED CAMERA. PROVIDE 3/4" CONDUIT TO ABOVE FINISHED CEILING.
- [CAM] - CEILING MOUNTED CAMERA.
- [CAM] - CEILING MOUNTED CAMERA - 360° VIEWING RANGE.
- [M] - WALL MOTION SENSOR MOUNTED 7'-6" AFF. PROVIDE 4" SQUARE BOX WITH SINGLE GANG PLASTER RING AND 3/4" CONDUIT TO ABOVE FINISHED CEILING.
- [M] - MOTION SENSOR MOUNTED ABOVE FINISHED CEILING.
- [M] - MOTION SENSOR MOUNTED TO UNDERSIDE OF FINISHED CEILING WITH 3/4" CONDUIT TO ABOVE CEILING.
- [AL] - ALARM LAMP. MOUNT 72" AFF. PROVIDE 3/4" CONDUIT FROM TOP OF STOREFRONT/DOOR TO ABOVE FINISHED CEILING. COORDINATE WITH SECURITY CONTRACTOR.
- [SFE] - 4" SQUARE BOX, FLUSH MOUNTED 20" AFF. COORDINATE EXACT LOCATION AND SIZE WITH SECURITY CONTRACTOR PRIOR TO ROUGH IN.
- [CRA] - CARD READER WITH ALARM. PROVIDE 4" SQUARE BOX WITH SINGLE GANG PLASTER RING, MOUNTED 48" AFF WITH 3/4" CONDUIT TO ABOVE FINISHED CEILING.
- [CRC] - CARD READER FOR ACCESS CONTROL. PROVIDE 4" SQUARE BOX WITH SINGLE GANG PLASTER RING, MOUNTED 48" AFF WITH 3/4" CONDUIT TO ABOVE FINISHED CEILING.
- [H] - HEIGHT STRIP CAMERA. PROVIDE 3/4" CONDUIT FROM OUTLET TO ABOVE FINISHED CEILING. COORDINATE WITH SECURITY CONTRACTOR BEFORE ROUGH-IN.
- [DC] - DOOR CONTACTS. PROVIDE JUNCTION BOX ABOVE CEILING WITH 3/4" CONDUIT TO ABOVE FINISHED CEILING. PROVIDE 120 V CIRCUIT TO ADJACENT JUNCTION BOX FOR CONTROL. COORDINATE WITH HARDWARE CONTRACTOR AND WIRE COMPLETE.
- [GB] - GLASS BREAK DETECTOR. PROVIDE JUNCTION BOX ABOVE CEILING WITH 3/4" CONDUIT TO ABOVE FINISHED CEILING.
- [D] - SINGLE GANG DATA BOX. PROVIDE 3/4" CONDUIT TO ABOVE FINISHED CEILING UNLESS NOTED OTHERWISE.
- [AK] - ALARM KEYPAD.
- [AR] - ALARM RESET BUTTON. WIRED TO JUMPER ON PANEL.
- [DMP] - DMP ALARM PANEL.
- [WVB] - WIRELESS WALL BUTTON (RELEASE FRONT DOORS).
- [NVR] - NETWORK VIDEO RECORDER (RACK MOUNTED).
- [KB] - KNOB BOX WITH TAMPERS.



1 SECURITY PLAN
E201 1/4" = 1'-0"



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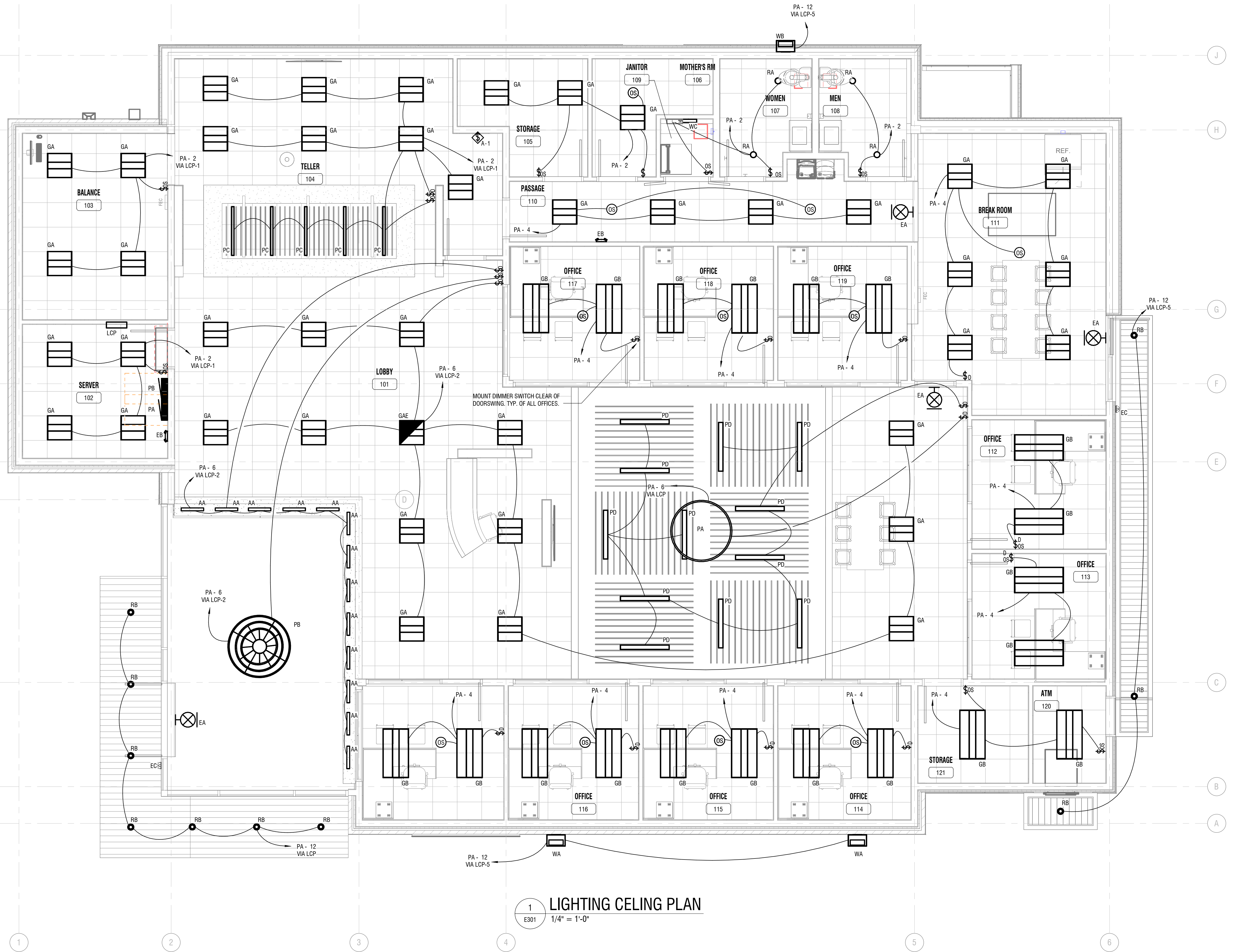
LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2230150
DRAWN BY:		ZCJ
REVIEWED BY:		AGR
ISSUED FOR:		BID SET
DATE:		08.23.2024
DRAWING NAME:		

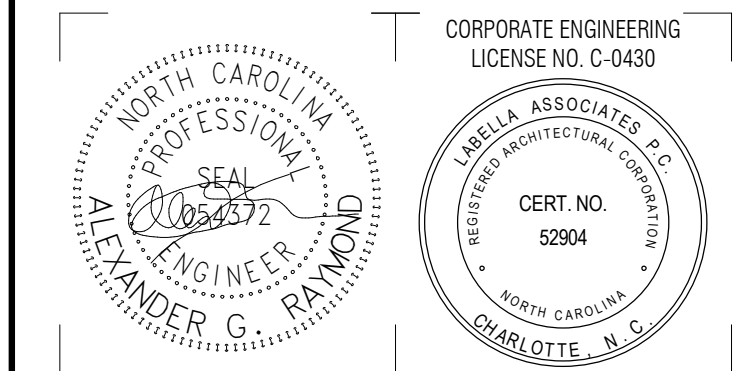
LIGHTING CEILING PLAN

DRAWING NUMBER:

E301



1 LIGHTING CEILING PLAN
E301 1/4" = 1'-0"



08.23.2024
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LCCU - Morrisville Site Adapt
9521 Chapel Hill RD, Morrisville, NC 27560

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2230150

DRAWN BY: ZCJ

REVIEWED BY: AGR

ISSUED FOR: BID SET

DATE: 08.23.2024

DRAWING NAME:

ELECTRICAL DETAILS AND RISER DIAGRAM

DRAWING NUMBER:

E401

Branch Panel: PA

Location: SERVER 102
Supply From: MOUNTING: SURFACE ENCLOSURE: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 18 KAIC
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Cond	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Cond	Circuit Description	CKT	
1	PANEL RECPT	3/4	12	20 A	1	180	637		1	20 A	12	3/4	TELLER LIGHTING	2	
3	BALANCE RECPTS	3/4	12	20 A	1		900	905		1	20 A	12	3/4	OFFICE LIGHTING	4
5	TELLER RECPTS	3/4	12	20 A	1			720	934	1	20 A	12	3/4	LOBBY LIGHTING	6
7	TELLER RECPTS	3/4	12	20 A	1	720	1200			1	20 A	12	3/4	SIGN OUTLET	8
9	BACK COUNTER RECPTS	3/4	12	20 A	1		1080	1200		1	20 A	12	3/4	SIGN OUTLET	10
11	OFFICE 122 RECPTS	3/4	12	20 A	1			860	362	1	20 A	12	3/4	BUILDING/CANOPY LIGHTING	12
13	OFFICE 117 RECPTS	3/4	12	20 A	1	720	468			1	20 A	12	3/4	SITE LIGHTING	14
15	OFFICE 118 RECPTS	3/4	12	20 A	1		540	500		1	20 A	12	3/4	BACKFLOW HEAT TAPE	16
17	OFFICE 119 RECPTS	3/4	12	20 A	1			720	500	1	20 A	12	3/4	BACKFLOW HEAT TAPE	18
19	OFFICE 116 RECPTS	3/4	12	20 A	1	540	0			1	20 A	--	--	SPARE	20
21	OFFICE 115 RECPTS	3/4	12	20 A	1		720	0		1	20 A	--	--	SPARE	22
23	OFFICE 114 RECPTS	3/4	12	20 A	1			540	0	1	20 A	--	--	SPARE	24
25	OFFICE 112 RECPTS	3/4	12	20 A	1	540	0			1	20 A	--	--	SPARE	26
27	COPIER	3/4	12	20 A	1		500	500		1	20 A	12	3/4	COIN SORTER	28
29	RECEPTION RECPTS	3/4	12	20 A	1			790	670	1	20 A	12	3/4	EWV*	30
31	PRINT RECPTS	3/4	12	20 A	1	680	6000								32
33	COPIER	3/4	12	20 A	1		500	6000		3	75 A	8	3/4	IWH-1	34
35	COPIER	3/4	12	20 A	1			500	6000						36
37	FRIDGE*	3/4	12	20 A	1	670	900			1	20 A	12	3/4	ROOF RECPTS	38
39	MICROWAVE*	3/4	12	20 A	1		1000	1144		2	25 A	12	3/4	ODU-1	40
41	MICROWAVE*	3/4	12	20 A	1			1000	1144						42
43	COFFEE MAKER	3/4	12	20 A	1	1000	3600								44
45	PASSAGE RECPTS	3/4	12	20 A	1		1260	3600		3	45 A	10	3/4	RTU-1	46
47	BREAK RECPTS	3/4	12	20 A	1			900	3600						48
49						2970	7200								50
51	PB	1-1/4	3	100 A	3			1410	7200	3	80 A	6	1	RTU-2	52
53								1860	7200						54

Total Load: 28002 VA 28959 VA 28292 VA
Total Amps: 233 A 242 A 236 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	34838 VA	100.00%	34838 VA	
Lighting	2684 VA	125.00%	3355 VA	Total Conn. Load: 85253 VA
Lighting - Exterior	468 VA	125.00%	585 VA	Total Est. Demand: 88784 VA
Other	15790 VA	100.00%	15790 VA	Total Conn.: 237 A
Receptacle	13500 VA	87.04%	11750 VA	Total Est. Demand: 246 A
Water Heater	18000 VA	125.00%	22500 VA	

Branch Panel: PB

Location: SERVER 102
Supply From: PA
MOUNTING: SURFACE ENCLOSURE: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 18 KAIC
Mains Type: MLO
Mains Rating: 100 A
MCB Rating: N/A

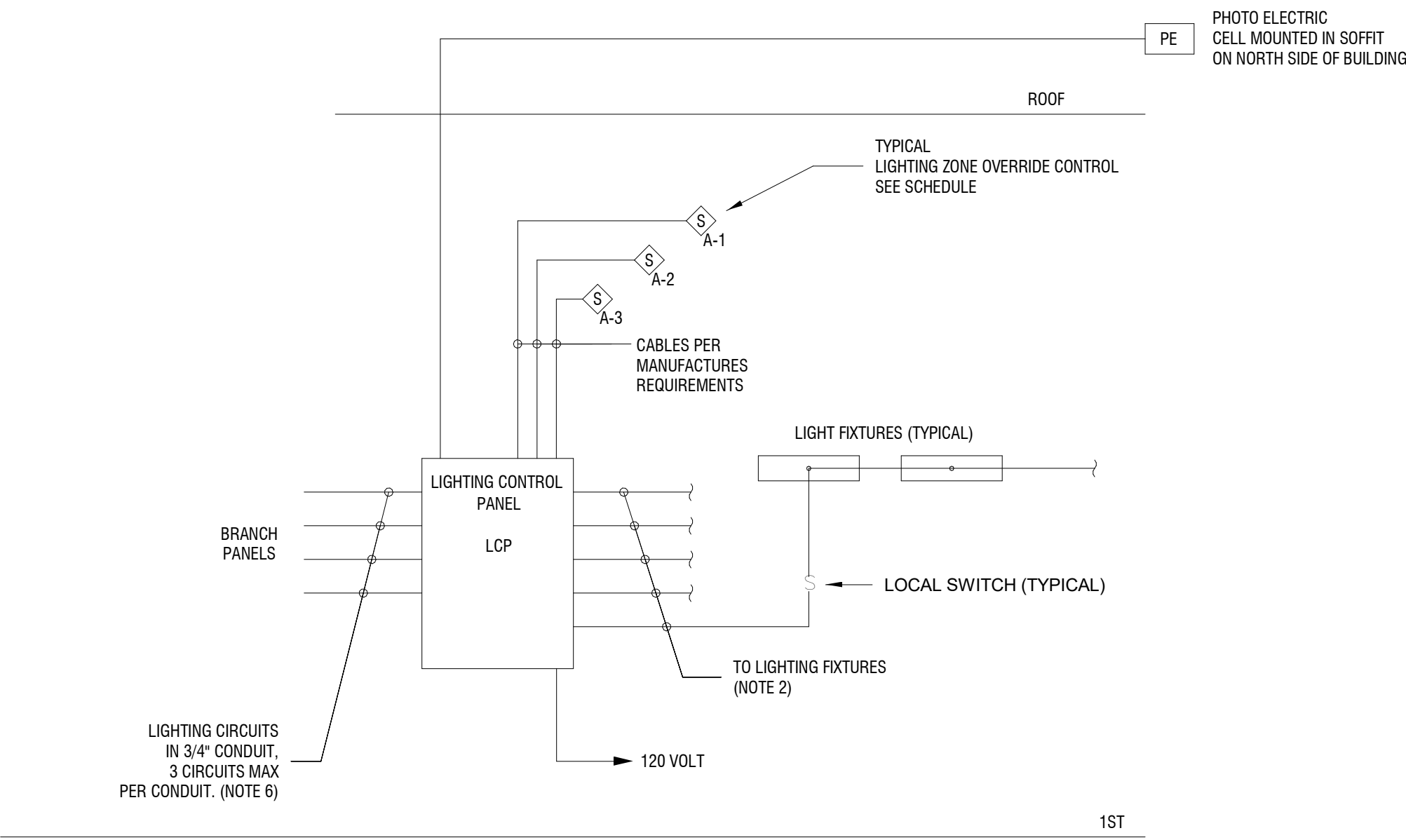
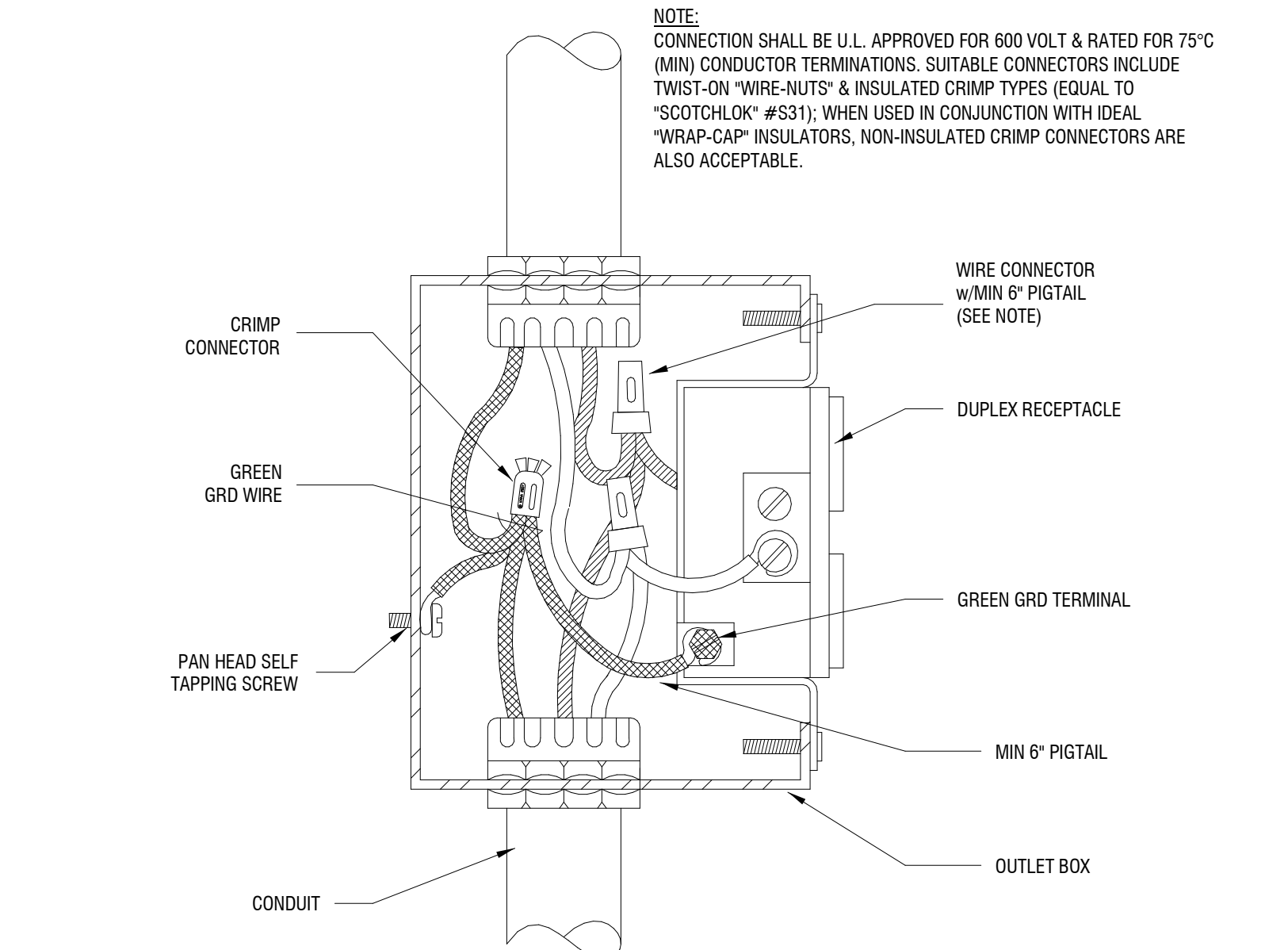
Notes:

CKT	Circuit Description	Cond	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Cond	Circuit Description	CKT	
1	SERVER RECPTS	3/4	12	20 A	1	360	0		1	20 A	--	--	SPARE	2	
3	SERVER RECPTS	3/4	12	20 A	1		360	0		1	20 A	--	--	SPARE	4
5	SERVER RECPTS	3/4	12	20 A	1			360	0	1	20 A	--	--	SPARE	6
7	SAFE RECPT	3/4	12	20 A	1	360	0			1	20 A	--	--	SPARE	8
9	TV RECPTS	3/4	12	20 A	1		500	0		1	20 A	--	--	SPARE	10
11	TV RECPTS	3/4	12	20 A	1			750	0	1	20 A	--	--	SPARE	12
13	TV RECPTS	3/4	12	20 A	1	1250	0			1	20 A	--	--	SPARE	14
15	ATM EQUIPMENT	3/4	12	20 A	1		500	0		1	20 A	--	--	SPARE	16
17	ATM EQUIPMENT	3/4	12	20 A	1			500	0	1	20 A	--	--	SPARE	18
19	ATM	3/4	12	20 A	1	1000	0			1	20 A	--	--	SPARE	20
21	SECURITY DEVICES	3/4	12	20 A	1		50	0		1	20 A	--	--	SPARE	22
23	SECURITY DEVICES	3/4	12	20 A	1			250	0	1	20 A	--	--	SPARE	24
25	SPARE	--	--	20 A	1	0	0			1	20 A	--	--	SPARE	26
27	SPARE	--	--	20 A	1	0	0			1	20 A	--	--	SPARE	28
29	SPARE	--	--	20 A	1			0	0	1	20 A	--	--	SPARE	30
31	SPACE	--	--	--	1	--	--			1	--	--	--	SPACE	32
33	SPACE	--	--	--	1	--	--			1	--	--	--	SPACE	34
35	SPACE	--	--	--	1	--	--			1	--	--	--	SPACE	36
37	SPACE	--	--	--	1	--	--			1	--	--	--	SPACE	38
39	SPACE	--	--	--	1	--	--			1	--	--	--	SPACE	40
41	SPACE	--	--	--	1	--	--			1	--	--	--	SPACE	42

Total Load: 2970 VA 1410 VA 1860 VA
Total Amps: 25 A 12 A 16 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	4800 VA	100.00%	4800 VA	
Receptacle	1440 VA	100.00%	1440 VA	Total Conn. Load: 6240 VA
				Total Est. Demand: 6240 VA
				Total Conn.: 17 A
				Total Est. Demand: 17 A

Notes:



LCP

RELAY #	CIRCUIT CONTROLLED	CONTROL	VOLTAGE	AREA	XX
1	PA-2	TIMECLOCK ON/OFF	120	TELLER	A-1
2	PA-6	TIMECLOCK ON/OFF	120	LOBBY	A-1
3	PA-8	PHOTOCELL ON/TIMECLOCK OFF	120	SIGN	
4	PA-10	PHOTOCELL ON/TIMECLOCK OFF	120	SIGN	
5	PA-12	PHOTOCELL ON/TIMECLOCK OFF	120	BUILDING LIGHTING	
6	PA-14	PHOTOCELL ON/TIMECLOCK OFF	120	PARKING LIGHTING	
7	SPARE		120		
8	SPARE		120		

- NOTES:
- LIGHTING CONTROL SYSTEM SHALL HAVE MINIMUM 8 INDIVIDUALLY PROGRAMMABLE RELAYS, RJ45 INTERFACE, DAYLIGHT SAVINGS TIME ADJUSTMENT, ASTRONOMICAL CLOCK AND BE UL LISTED (508 AND 916), PROVIDE "XPS" SYSTEM (BY LUTRON), "1LC" SYSTEM (BY LEVITON) OR EQUIVALENT AND EQUAL SYSTEM (BY WATT STOPPER).
 - INTERIOR LIGHTING FIXTURES POWERED THROUGH LIGHTING CONTROL CENTER SHALL BE TURNED ON IN THE MORNING AND SWEEP OFF AT A TIME DETERMINED BY OWNER/TENANT AT NIGHT. PROVIDE MOMENTARY OVERRIDE SWITCH(ES) WHERE INDICATED FOR CORRIDOR LIGHTING OVERRIDE. THE OVERRIDE SWITCH(ES) SHALL PROVIDE NO MORE THAN 2 HOURS OF ADDITIONAL LIGHTING. PROVIDE ENGRAVED NAMEPLATE ABOVE EACH SWITCH THAT READS "LIGHTING OVERRIDE". SWITCH AND PLATE COLOR SHALL MATCH OTHER DEVICES.
 - INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL PANELS, RELAYS, ACCESSORIES, CONDUIT CONDUCTORS, PROGRAMMING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - PROVIDE SERVICES OF A MANUFACTURER'S AUTHORIZED SERVICE TECHNICIAN TO ASSIST WITH INSTALLATION, PROGRAMMING AND TRAINING OF THE SYSTEM.
 - ALL VACANCY SENSORS SHALL BE DUAL TECHNOLOGY.
 - PROVIDE DIVIDERS TO SEPARATE EMERGENCY AND NON-EMERGENCY LOADS WHERE REQUIRED.
 - EMERGENCY FIXTURES REQUIRE A UNSWITCHED WIRE TO FIXTURE FOR TO POWER CHARGING CIRCUIT.

