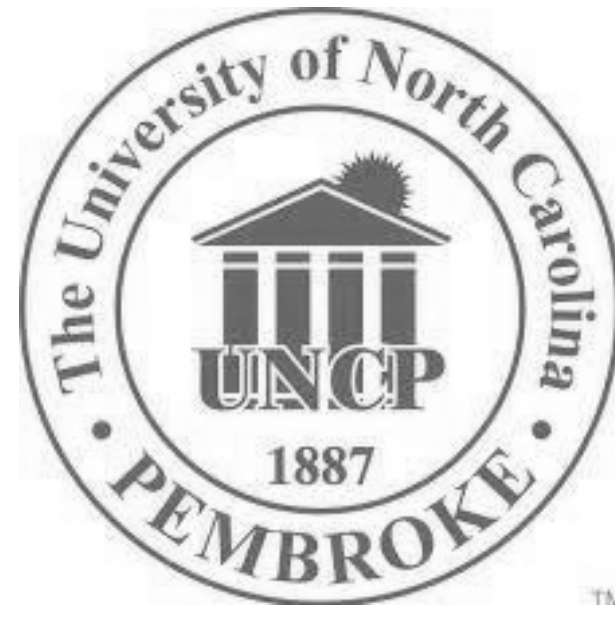


SHEET LIST

- 01\_GENERAL
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- G-102 SPECIFICATIONS
- G-103 SPECIFICATIONS
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- 09\_PLUMBING
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- 10\_FIRE PROTECTION
- F101 FLOOR PLANS - FIRE PROTECTION DEMOLITION AND NEW WORK
- F102 FLOOR PLANS - FIRE PROTECTION - EXISTING DOCUMENTATION



# UNC Pembroke

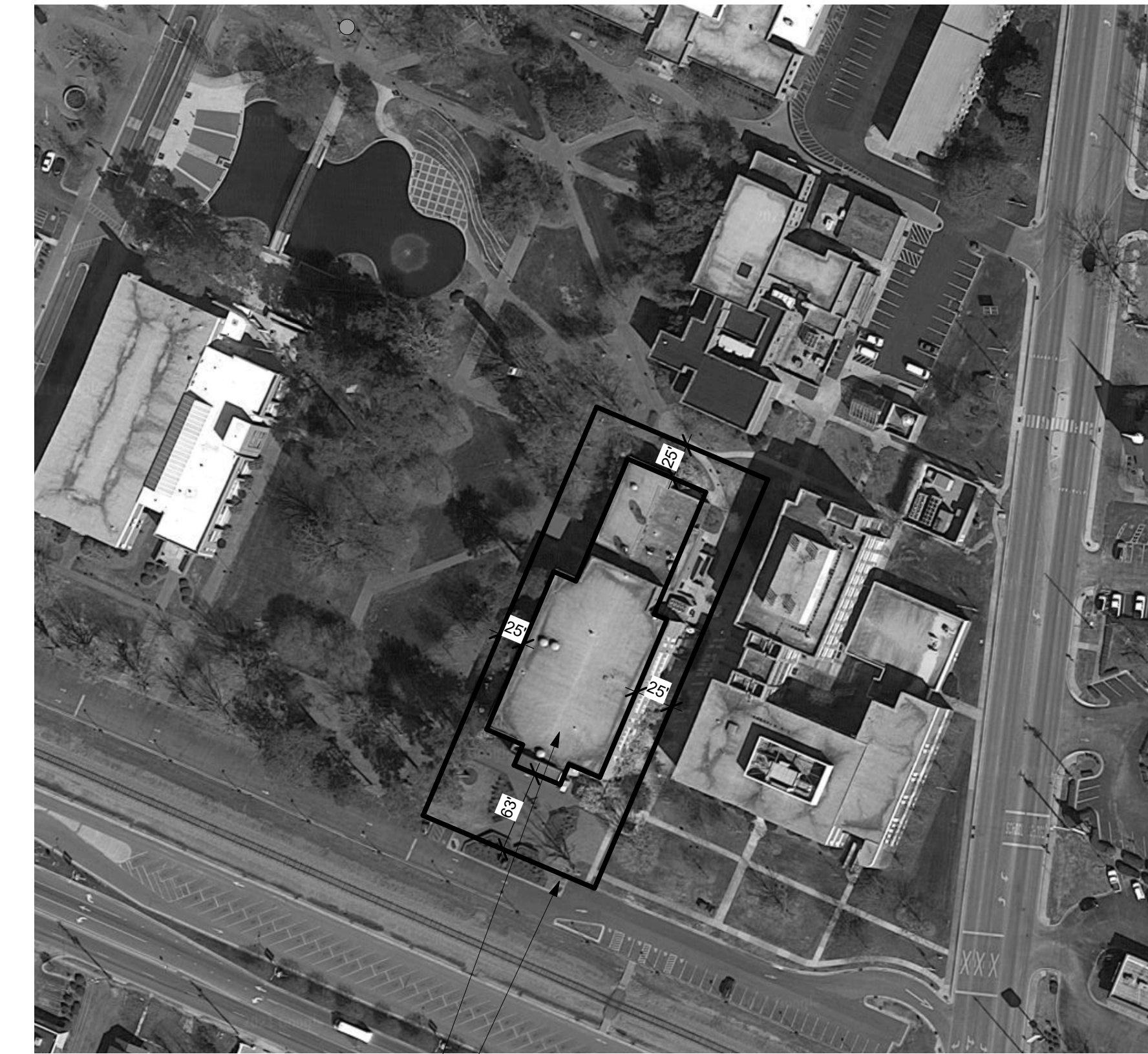
## AMERICAN INDIAN HERITAGE CENTER

OLD MAIN BUILDING  
1369 Old Main Road  
Pembroke, NC, 28372

### CONSTRUCTION DOCUMENTS SUBMITTAL

NOVEMBER 5, 2021

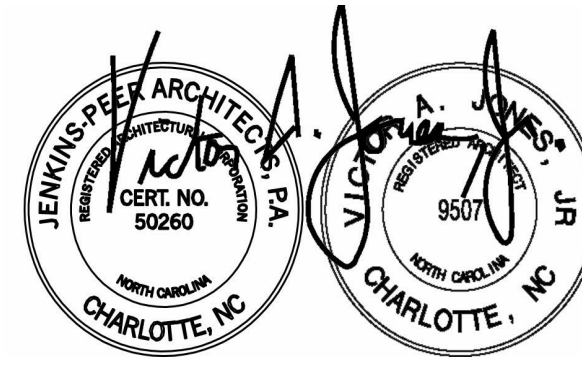
SCO ID: 21-23067-01  
JPA PROJECT NO. : 21PEM587



OLD MAIN BUILDING  
ASSUMED PROPERTY LINE  
LOCATION MAP (NTS)

Jenkins • Peer Architects  
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1/10/2022



### UNC PEMBROKE AMERICAN INDIAN HERITAGE CENTER

SCO ID#: 21-23067-01A

ABBREVIATIONS

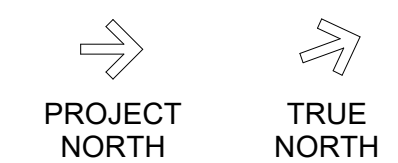
A	A - Area; Acre	B	BN - Bullnose	D	DIV - Division	F	FFE - Finished Floor Elevation	H	HID - High Intensity Discharge	L	LN - Length	N	NTS - Not To Scale	P	PT - Porcelain Tile; Pressure Treated	S	SCH - Schedule	T	TO - Top Of	W	WH - Water Heater; Wall Hung; Wall Hydrant
A	AB - Anchor Bolt	B	BNT - Bent	D	DN - Down	F	FF&E - Fixtures, Furnishings & Equipment	H	HM - Hollow Metal	L	LNDG - Landing	O	OA - Outside Air; Overall	P	PTD - Paper Towel Dispenser	S	SCWD - Solid Core Wood	T	TOC - Top Of Concrete	W	WIN - Window
A	ABV - Above	B	BOT - Bottom	D	DR - Door; Drain	F	FLR - Floor; Flooring	H	HOR - Horizontal	L	LT - Light	O	OC - On Center	P	PTN - Partition	S	SD - Soap Dispenser	T	TOF - Top Of Footing	W	WP - Waterproof; Waterproofing
A	AC - Air Conditioning	B	BRG - Bearing	D	DS - Downspout	F	FGR - Fiberglass reinforced	H	HR - Hour	L	LTG - Lighting	O	OD - Outside Diameter	P	OD - Outside Diameter	S	SE - Structural Engineer	T	TOS - Top Of Steel	W	WPT - Working Point
A	ACC - Access	B	BRK - Brick	D	DTL - Detail	F	FHC - Fire Hose Cabinet	H	HT - Height	L	LTL - Lintel	O	OFF - Office	P	PVC - Polyvinyl Chloride	S	SEAL - Sealant	T	TOW - Top Of Wall	W	WR - Water Resistant
A	ACoust - Acoustical	B	BSMT - Basement	D	DWG - Drawing	F	FIN - Finish; finished	H	HVAC - Heating, Ventilating & Air Conditioning	L	LT WT - Lightweight	O	OH - Overhead	P	PVT - Private	S	SECT - Section	T	TPD - Toilet Paper Dispenser	W	WS - Weatherstripping; Water Stop
A	AD - Area Drain	B	BTWN - Between	D	DWGS - Drawings	F	FIX - Fixture	I	ID - Inside Diameter	L	LVR - Louver	O	OPP - Opposite; Opposite Hand	P	PWR - Power	S	SERV - Service	T	TPTN - Toilet Partition	W	WSCT - Wainscot
A	ADA - Americans with Disabilities Act	B	BOS - Basis of Design	E	E - East; Enamel; Exhaust	F	FLEX - Flexible	I	IN - Inch	L	LV - Light Weight	O	ORD - Overflow Roof Drain	Q	QT - Quarry Tile; Quart	S	SF - Square Foot	T	TRANS - Transformer; Translucent	W	WT - Weight
A	ADD - Addendum; Addition	C	CAB - Cabinet	E	EA - Each	F	FLG - Flashing	I	INC - Incandescent	M	M - Meter	O	OTS - Open To Structure	Q	QTR - Quarter	S	SG - Safety Glass	T	TRD - Tread	W	WW - Window Wall
A	ADH - Adhesive	C	CAD - Computer-Aided Drafting	E	EIFS - Exterior Insulation & Finish System	F	FLR - Floor; Flooring	I	INCL - Incline; Include	M	MAINT - Maintenance	O	ORN - Ornamental	Q	QTY - Quantity	S	SHR - Shower	T	TV - Television	W	WWF - Welded Wire Fabric
A	ADJ - Adjust; Adjustable; Adjacent	C	CG - Corner Guard	E	EJ - Expansion Joint	F	FLUOR - Fluorescent	I	INFO - Information	M	MANF - Manufacturer	O	OTZ - Ounce	Q	QTZ - Quartz	S	SHT - Sheet	T	TYP - Typical	Y	YD - Yard
A	AFF - Above Finished Floor	C	CJ - Control Joint	E	EL - Elevation; Elevator	F	FOM - Face of Masonry	I	INSUL - Insulation	M	MAS - Masonry	O	OZ - Ounce	R	RA - Riser; Radius; Resistance	S	SHTG - Sheathing	T	TZ - Terrazzo	Y	YR - Year
A	AGG - Aggregate	C	CL - Centerline	E	ELEC - Electrical	F	FOS - Face of Studs	I	INT - Interior; Internal	M	MAT - Material	O	OFOI - Owner Furnished, Owner Installed	R	RA - Return Air; Registered Architect	S	SIM - Similar	U	UC - Undercut	Y	YH - Yard Hydrant
A	AIA - American Institute of Architects	C	CLG - Ceiling	E	ELEV - Elevator; Elevation	F	FT - Foot; Feet; Fully Tempered	I	INV - Invert	M	MB - Marker Board	R	REBAR - Reinforcing Bar	S	SND - Sanitary Napkin Dispenser	U	UNO - Unless Noted Otherwise	Y	YR - Year		
A	ALT - Alternate; Alteration; Altitude	C	CLO - Closet	E	EM - Emergency	F	FTG - Footing	J	JAN - Janitor	M	ME - Mechanical Engineer	R	RECEP - Receptacle; Refrigerator	S	SNR - Sanitary Napkin Receptacle	U	UL - Underwriters' Laboratories	Y	YH - Yard Hydrant		
A	ALLUM - Aluminum	C	CLR - Clear	E	EMER - Emergency	F	FURN - Furnish; Furniture	J	JB - Junction Box	M	MECH - Mechanical	R	RAD - Radius; Radiator	S	SPEC - Specification	U	UNO - Unless Noted Otherwise				
A	AMP - Ampere; Ampacity	C	CMU - Concrete Masonry Unit	E	ENAM - Enamel	F	FURN - Furnish; Furniture	J	JCT - Junction	M	MED - Medium	R	RB - Rubber; Rubber Base; Resilient Base	S	SPECS - Specifications	U	UR - Urinal				
A	AMT - Amount	C	CNTR - Center; Counter	E	ENG - Engineer	F	FURR - Furring	J	JC - Janitor's Closet	M	MET - Metal	R	RCP - Reflected Ceiling Plan	S	SPK - Speaker	U	UR - Urinal				
A	ANN - Annunciator	C	C.O. - Cased Opening	E	ENTR - Entrance	F	FV - Field Verify	J	JST - Joist	M	MEZZ - Mezzanine	R	RD - Roof Drain; Round	S	SQ - Square	V	V - Volt; Valve				
A	ANOD - Anodized	C	C.O. - Cased Opening	E	EQ - Equal	G	GA - Gauge	J	JT - Joint	M	MFG - Manufacturer; Manufacturing	R	REBAR - Reinforcing Bar	S	SS - Stainless Steel	V	VB - Vapor Barrier				
A	APPROX - Approximate	C	COL - Column	E	EQUIP - Equipment	G	GALV - Galvanized	J	JT - Joint	M	MOD - Module	R	RECEP - Receptacle	S	STC - Sound Transmission Class	V	VCT - Vinyl Composition Tile				
A	APRVD - Approved	C	CONC - Concrete	E	EST - Estimate	G	GB - Grab Bar; Glass Block	K	KIP - Kilopound (1000 pounds)	M	MH - Manhole	R	REF - Refer; Reference; Reinforce	S	STD - Standard	V	VENT - Ventilate; Ventilator				
A	AR - Abuse Resistant	C	CONST - Construction	E	EXP - Expansion; Exposed	G	GEN - General; Generator	K	KIT - Kitchen	M	MIN - Minimum	R	REG - Register; Regular	S	STOR - Storage	V	VERT - Vertical				
A	ARCH - Architect; Architectural	C	CONC - Concrete	E	EXIST - Existing	G	GFRC - Glass Fiber Reinforced Concrete	K	KP - Kickplate	M	MIR - Mirror	R	REIN - Reinforcement, or Reinforce	S	STL - Steel	V	VEST - Vestibule				
A	ASPH - Asphalt	C	CONT - Continuous; Continue; Control	E	EXT - Exterior; Extinguish	G	GL - Glass; Glazing	L	L - Length	M	MISC - Miscellaneous	R	REIN - Reinforcement, or Reinforce	S	STR - Structural	V	VIF - Verify In the Field				
A	ASSOC - Association; Associate	C	CORR - Corridor	E	EXP - Expansion; Exposed	G	GND - Ground	L	LAB - Laboratory; Labor	M	MM - Millimeter	R	REOD - Required	S	STRUC - Structural	V	VIN - Vinyl				
A	ATC - Acoustical Tile Ceiling	C	COV - Cover	E	EXP - Expansion; Exposed	G	GT - Grout	L	LAD - Ladder	M	MO - Masonry Opening	R	RES - Resilient	S	SUPP - Supplementary; Supplement	V	VIN - Vinyl				
A	ATTEN - Attenuation	C	CPT - Carpet	E	EXT - Exterior; Extinguish	G	GWB - Gypsum Wall Board	L	LAM - Laminated; Laminated	M	MOV - Movable	R	RET - Retaining	S	SUSP - Sheet Vinyl	V	VTR - Vent Through Roof				
A	AUTO - Automatic	C	CT - Ceramic Tile	F	F - Degrees Fahrenheit; Fuse	G	GYP - Gypsum	L	LAT - Lateral	M	MR - Moisture Resistant	R	REV - Reverse; Revise; Revision	S	SV - Sheet Vinyl	V	VWC - Vinyl Wall Covering				
A	AVG - Average	C	CW - Curtain Wall	F	FA - Fire Alarm; Fresh Air	L	L - Length	L	LAV - Lavatory	M	MTD - Mounted	R	RFG - Roofing	S	SYS - System	W	W - West; Width; Wide				
B	BD - Board	C	CYL - Cylinder	F	FAE - Fluid Applied Epoxy Flooring	L	LAB - Laboratory; Labor	L	LAV - Lavatory	M	MTL - Material; Metal	R	RH - Right Hand	T	T&G - Tongue & Groove	W	W - With				
B	BDRM - Bedroom	C	COORD - Coordinate	F	FAST - Fastener; Fasten	L	LAD - Ladder	L	LAV - Lavatory	M	MULL - Mullion	R	RM - Room	T	TB - Tackboard; Towel Bar	W	WO - Without				
B	BEV - Bevel	D	DEMO - Demolition	F	FBRK - Fire Brick	L	LAD - Ladder	L	LAV - Lavatory	N	N - North	R	RO - Rough Opening	T	TBD - To Be Determined	W	WAINS - Wainscot				
B	BH - Bulkhead	D	DEP - Depressed	F	FD - Floor drain	L	LCD - Liquid Crystal Diode	L	LAV - Lavatory	N	NAT - Natural	R	ROW - Right of Way	T	TEL - Telephone	W	WC - Watercloset				
B	BLDG - Building	D	DEPT - Department	F	FDC - Fire Department Connection	L	LD - Leader Drain	L	LAV - Lavatory	N	NIC - Not In Contract	R	RR - Railroad	T	TEMP - Temporary; Temperature	W	WF - Wide Flange (structural steel)				
B	BLKG - Blocking	D	DET - Detail	F	FDN - Foundation	L	LAV - Lavatory	L	LAV - Lavatory	N	NOM - Nominal	R	RWL - Rain Water Leader	T	THK - Thick; Thickness	W	WG - Wired Glass				
B	BM - Beam; Bench Mark	D	DF - Drinking Fountain	F	FE - Fire Extinguisher	L	LAV - Lavatory	L	LAV - Lavatory	N	NRC - Noise Reduction Coefficient	R		T	THRU - Through						
		D	DIA - Diameter	F	FEC - Fire Extinguisher Cabinet	L	LAV - Lavatory	L	LAV - Lavatory			S	SC - Solid Core; Sealed Concrete	T	TLT - Toilet						

TAG DESCRIPTION DATE

Project: 21PEM587  
Drawn By: RS/DJ  
Checked By: RH/JM  
Date: 1/10/2022

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COVER SHEET



BID DOCUMENTS

G-001



























D

- Apply water-based paints only when the temperature of the surfaces to be painted and the surrounding air temperatures are between 50 degrees F. and 90 degrees F., unless otherwise permitted by the paint manufacturer's
- Do not apply paint when the relative humidity exceeds eighty-five (85) percent; or to damp or wet surfaces; unless otherwise permitted by the paint manufacturer's printed instructions.
- Paint Manufacturers
  - Except as otherwise noted, provide the painting products listed for all required painting made by one of the manufacturers listed in the paint schedule. These companies are Benjamin Moore, Akzo Nobel Paint (Glidden Professional), and Sherwin Williams (S-W). Comply with number of coats and required minimum mill thicknesses as specified herein.
- Materials
  - Provide undercoat paint produced by the same manufacturer as the finish coats. Use only thinners approved by the paint manufacturer, and use only to recommended limits.
  - Coloring Pigment: Products of or furnished by the manufacturer of the paint or enamel approved for the work.
- Interior Drywall / Flat Finish/Vinyl Acrylic Latex
  - Primer: Benj. Moore Ultra Spec 500 Interior Latex Primer (N534) PPG Speedhide Zero Interior Latex Primer 6-4900XI S-W ProMar 200 Zero VOC Interior Latex Primer, B28-2600
  - First Coat: Benj. Moore Ultra Spec 500 Latex Flat (N536) PPG Speedhide Zero Interior Latex Flat 6-4110XI S-W ProMar 200 Zero VOC Interior Latex Flat, B30-12600 Series
  - Second Coat: Benj. Moore Ultra Spec 500 Latex Flat (N536) PPG Speedhide Zero Interior Latex Flat 6-4110XI S-W ProMar 200 Zero VOC Interior Latex Flat, B30-12600 Series. Total DFT not less than: 3.6 mils
- Interior Drywall / Eggshell Finish/Vinyl Acrylic Latex
  - Primer: Benj. Moore Ultra Spec 500 Interior Latex Primer (N534) PPG Speedhide Zero Interior Latex Primer 6-4900XI S-W ProMar 200 Zero VOC Interior Latex Primer, B28-2600
  - First Coat: Benj. Moore Ultra Spec 500 Interior Latex Eggshell (N538) PPG Speedhide Zero Interior Latex Eggshell 6-4310XI S-W ProMar 200 Zero VOC Interior Latex Eg-Shel, B20-1900 Series
  - Second Coat: Benj. Moore Ultra Spec 500 Interior Latex Eggshell (N538) PPG Speedhide Zero Interior Latex Eggshell 6-4310XI S-W ProMar 200 Zero VOC Interior Latex Eg-Shel, B20-1900 Series. Total DFT not less than: 3.8 mils
- PIPING AND MECHANICAL EQUIPMENT EXPOSED TO VIEW
  - Paint all exposed piping, conduits, ductwork and mechanical and electrical equipment. Use heat resisting paint when applied to heating lines and equipment. The Contractor is cautioned not to paint or otherwise disturb moving parts in the mechanical systems. Mask or otherwise protect all parts as required to prevent damage.
  - Exposed Uncovered Ductwork, Piping, Hangers and Equipment: Latex Enamel Undercoater and one (1) coat Acrylic Latex Flat.
  - Exposed Covered Piping, Duct Work and Equipment: Primer/Sealer and one (1) coat Acrylic Latex Flat.
  - Panel Boards, Grilles and Exposed Surfaces of Electrical Equipment: Latex Enamel Undercoater and two (2) coats Latex Semi-Gloss.
  - Equipment or Apparatus with Factory-Applied Paint: Refinish any damaged surfaces to match original finish. Do not paint over name plates and labels.
  - All surfaces of insulation and all other work to be painted shall be wiped or washed clean before any painting is started.
  - All conduit, boxes, distribution boxes, light and power panels, hangers, clamps, etc., are included where painting is required.
  - All items of Mechanical and Electrical trades which are furnished painted under their respective Contracts shall be carefully coordinated with the work of this Section so as to leave no doubt as to what items are scheduled to be painted under this Section.

**DIVISION 10 – SPECIALTIES (None)**  
**DIVISION 11 – EQUIPMENT (None)**  
**DIVISION 12 – FURNISHINGS**

**Simulated Stone Countertops (12 26 611)**

- Work of this Section includes all labor, materials, equipment, and services necessary to complete the simulated stone countertops as shown on the drawings and/or specified herein including, but not limited to, the following:
  - Quartz stone surface counters.
  - Stainless steel anchoring and fastening devices.
- Quality Assurance
  - Fire Test Response Characteristics: Provide with the following Class A (Class I) surface burning characteristics as determined by testing identical products per UL 723 (ASTM E 84) or another testing and inspecting agency acceptable to authorities having jurisdiction:
    - Flame Spread Index: 25 or less.
    - Smoke Developed Index: 450 or less.
- Submittals
  - Shop Drawings for Engineered Stone: Submit complete cutting and setting drawings to the Architect for approval. Show sizes, shapes, thicknesses, jointing, anchoring, connection with other work, typical and special anchoring details, supports, dimensions, setting numbers, and color range for stone. Clearly indicate dimensions for locating cutouts in stone. Do not fabricate any stone tops (except for samples) until shop drawings have been approved by the Architect.
  - Samples
    - Stone: Submit 3 sets of 12" x 12" samples of engineered stone. Include full range of color and texture to be expected. Architect will review for color and texture only. Compliance with all other requirements is the exclusive responsibility of the Contractor.
- Product Data
  - Stone: Submit manufacturer's product data, fabrication and installation instructions.
  - Accessories: Submit manufacturer's product data and installation instructions.
- Product Delivery, Storage and Handling
  - Protect stone during storage and construction against wetting, soiling, staining and damage.
  - Handle stone to prevent chipping, breakage, soiling or other damage. Do not use pinch or wrecking bars without protecting edges of stone with wood or other rigid materials.
  - Store stone on wood skids or pallets, covered with non-staining, waterproof membrane. Place and stack skids and stones to distribute weight evenly and to prevent breakage or cracking of stones. Protect stored stone from weather with waterproof, non-staining covers or enclosures, but allow air to circulate around stones.
- Quartz Stone
  - Provide 1-1/2" thick quartz stone surfacing equal to Caesarstone Quartz Surfacing, Zodiaq by Dupont, or Silestone; finish to be polished on all exposed surfaces.
    - Exposed Edges and Corners:
  - Countertops:
    - Edges: As indicated on drawings
- Accessories
  - Mounting Adhesives: Provide structural-grade silicone or epoxy adhesives of type recommended by manufacturer for application and conditions of use.
    - Acceptable Silicone Manufacturers:
      - Dow Corning.
      - GE Sealants and Adhesives.
    - Acceptable Epoxy Manufacturers:
      - Akemi North America.

C

B

A

- Bonstone Material Corporation.
- Tenax USA.
- Provide spacers, if required, of type recommended by adhesive manufacturer.
- Color: Adhesive or sealant which will be visible in finished work shall be tinted to match quartz surfacing.
- Fasteners: Type 304, stainless steel meeting ASTM A 666.
- Joint Sealants: Provide anti-bacterial type.
  - Acceptable Manufacturers:
    - Dow Corning.
    - GE Sealants and Adhesives.
- Solvent: Product recommended by adhesive manufacturer to clean surface of quartz surfacing to assure adhesion of adhesives [and sealants].
- Cleaning Agents: Non-abrasive, soft-scrub type kitchen cleansers.
- Fabrication
  - Fabricator: Firm shall have five years experience fabricating stone and shall have water-cooled cutting tools.
  - Shop Assembly: Observe proper safety procedures and comply with manufacturer's instructions.
  - Layout: Layout joints to minimize joints and to avoid L-shaped pieces of quartz surfacing.
  - Inspection: Inspect material for defects prior to fabrication.
    - Color Match: Materials throughout Project shall be from the same batch and shall bear labels with same batch number. Visually inspect materials to be used for adjacent pieces to assure acceptable color match. Inspect in lighting conditions similar to those on Project.
    - Variation in distribution of aggregates in quartz surfacing which are within manufacturer's tolerances is not a defect.
- Tools: Cut and polish with water-cooled power tools.
- Cutouts
  - Cutouts shall have 3/8" minimum inside corner radius. Inside corners shall be reinforced in an acceptable manner to prevent cracking.
  - Exposed edges of cutout to be polished.
  - If the remaining material outside a cutout is less than three inches wide, reinforce area by laminating it with a strip of stone.
- Setting Stone Countertops and Counter Fascia
  - Cut-outs and Drilling: Provide countertops with cut-outs or as drawn. Cut-outs shall be carefully made in accordance with templates. Stone shall be drilled as required to receive anchoring and fastening devices.
  - Setting: Set countertops in required pattern over steel supports using stainless steel anchors and mounting adhesive. Set countertops level, plumb and square.
  - Joints: Maintain an even joint between units, 1/16" max. Point joints with approved elastic non-staining mastic pointing compound, color to match stone. Tool joints flush. Clean exposed surfaces carefully.
- Repair, Cleaning and Sealing
  - Remove and replace stone units which are broken, chipped, stained or otherwise damaged. Where directed, remove and replace units which do not match adjoining stonework. Patching or hiding chips or cracks in stone will not be permitted. Provide new matching units, install as specified and reseat joints to eliminate evidence of replacement. Reseal defective and unsatisfactory joints to provide a neat, uniform appearance.
  - Clean and seal stonework after completion using cleaner and sealer specified herein and as recommended by stone manufacturer; follow manufacturer's instructions.
- Protection
  - A. After installation and cleaning, protect stone work from damage during subsequent construction activities.
  - B. Provide protection for finished work such as exposed edges, corners, and all other stone liable to

physical injury or staining. Protection shall include, but is not limited to, non-staining approved coverings.

END OF SECTION

**DIVISION 13 – SPECIAL CONSTRUCTION (None)**

**DIVISION 14 – CONVEYING EQUIPMENT (None)**

ATTACHMENT A-

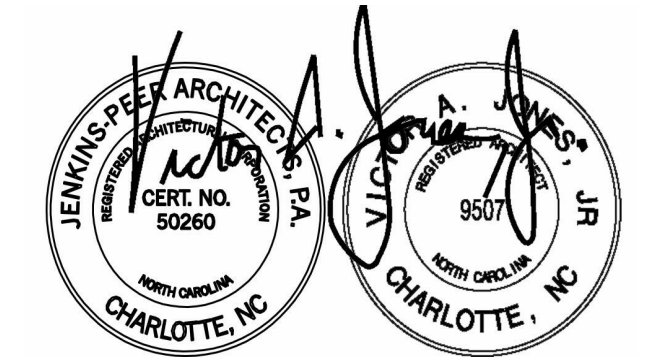
Laydown area:



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 (t) 410/646-4500



1/10/2022



**UNC PEMBROKE  
 AMERICAN INDIAN  
 HERITAGE  
 CENTER**

SCO ID#: 21-23067-01A

TAG	DESCRIPTION	DATE

Project: 21PEM587  
 Drawn By: RS/ DJ  
 Checked By: RH/ JM  
 Date: 1/10/2022

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**SPECIFICATIONS**



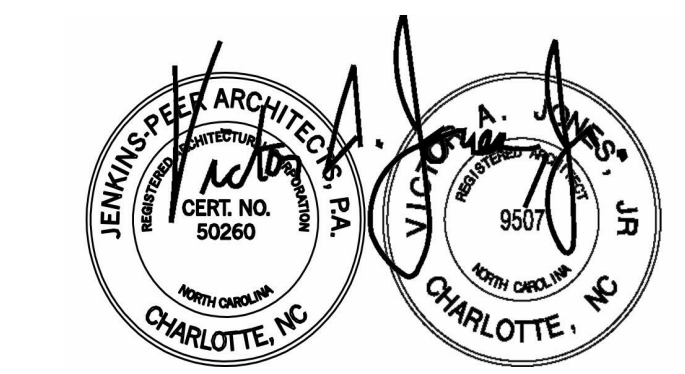
**BID DOCUMENTS**

**G-107**









1/10/2022



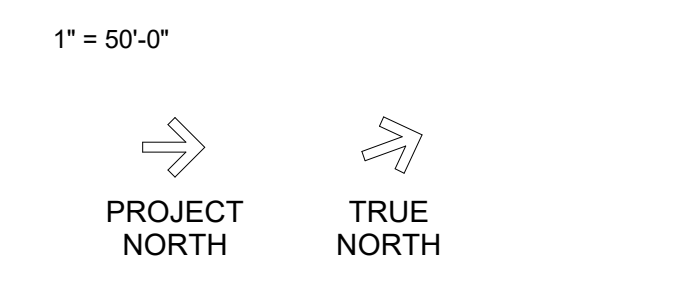
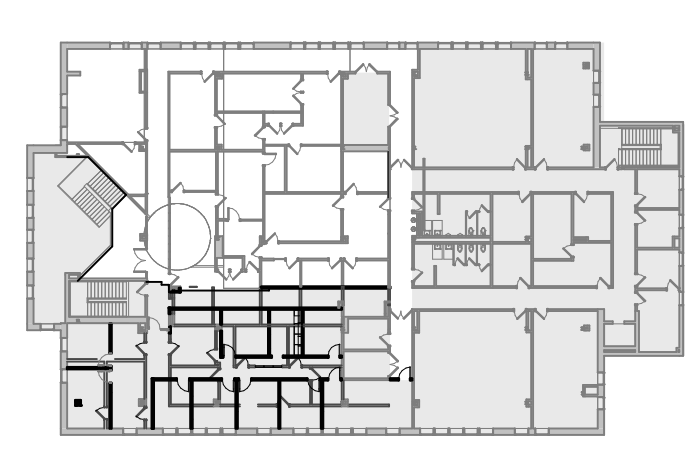
**UNC PEMBROKE  
AMERICAN INDIAN  
HERITAGE  
CENTER**

SCO ID#: 21-23067-01A

TAG	DESCRIPTION	DATE

Project: 21PEM587  
Drawn By: RS/ DJ  
Checked By: RH/ JM  
Date: 1/10/2022  
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**DEMOLITION  
PLANS**



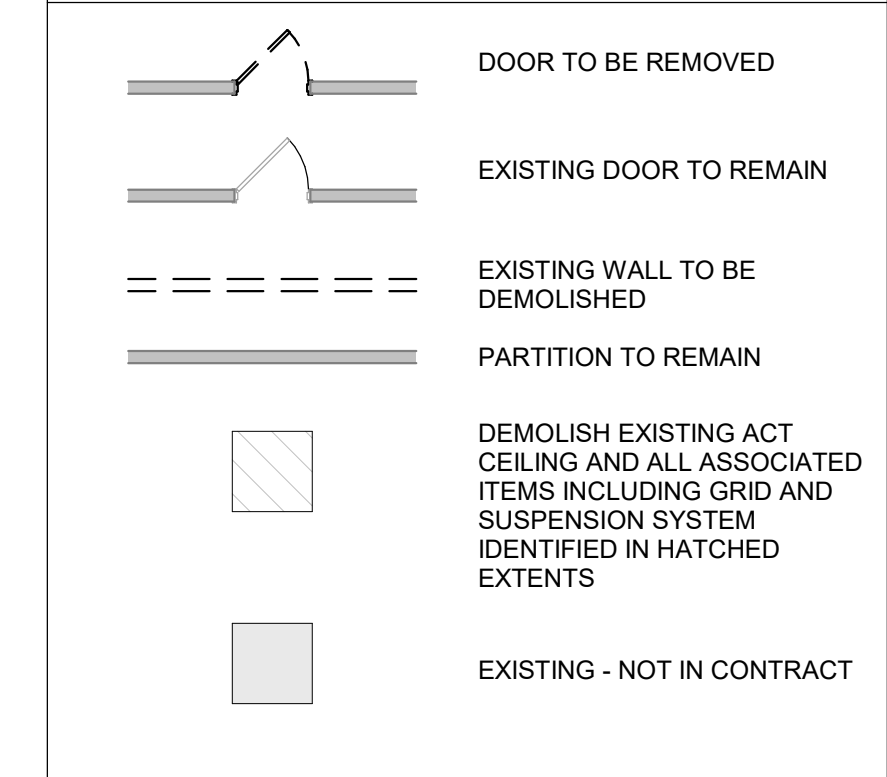
**BID DOCUMENTS**

**AD101**

**DEMOLITION GENERAL NOTES**

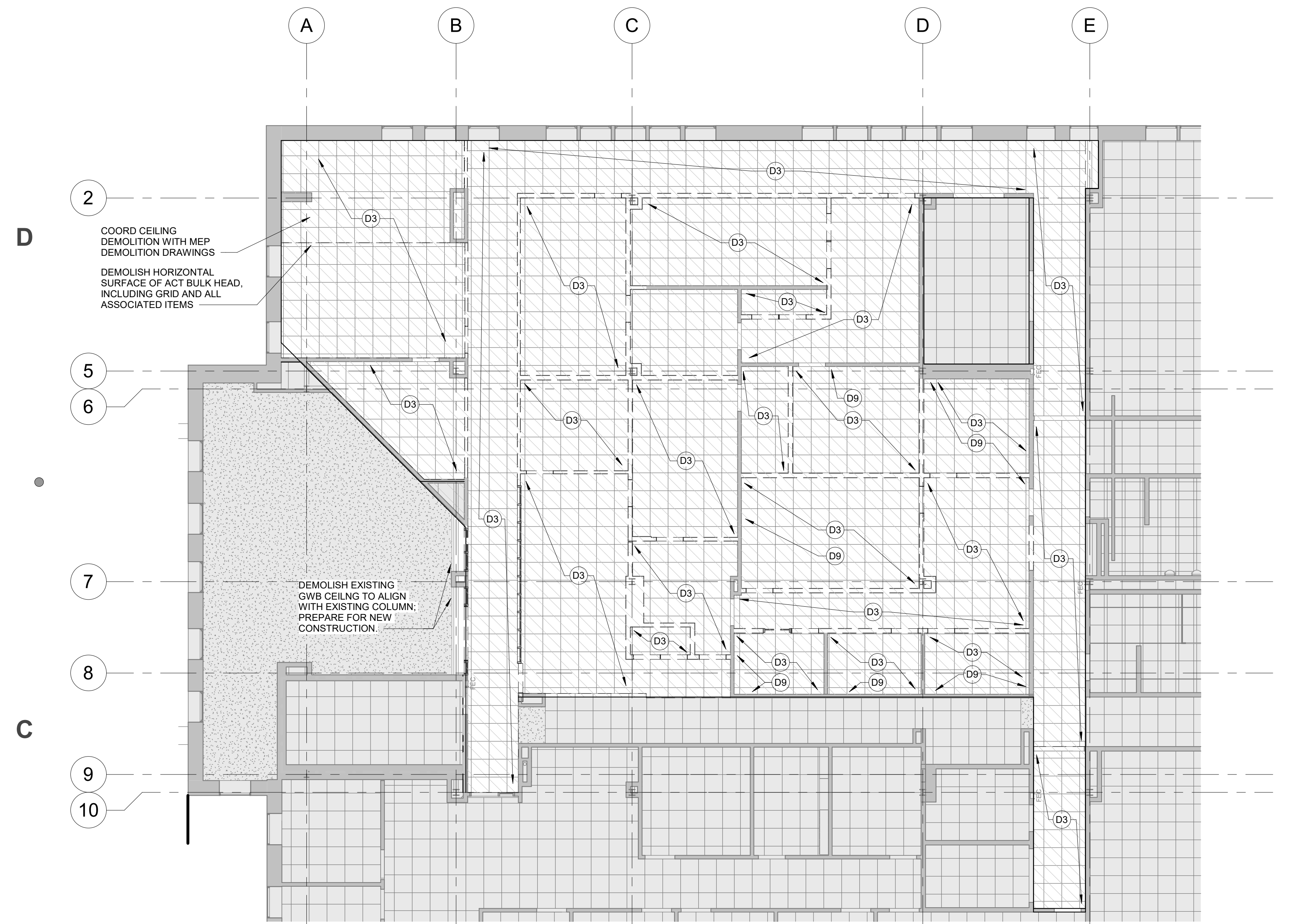
- ELEMENTS TO BE DEMOLISHED ARE SHOWN WITH DASHED LINES UNLESS OTHERWISE INDICATED ON DRAWINGS.
- NO LOAD BEARING WALLS, STRUCTURE, STRUCTURAL FLOOR OR STRUCTURAL ELEMENT SHALL BE WEAKENED OR REMOVED UNLESS NOTED OTHERWISE BY THE STRUCTURAL ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. ANY DISCREPANCIES OR INCONSISTENCIES BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL EXISTING CONDITIONS SHALL BE DOCUMENTED AND NOTICE MADE TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- DIMENSIONS GIVEN ON DEMOLITION PLAN SHALL BE FIELD VERIFIED AND COORDINATED WITH FLOOR PLANS FOR NEW LAYOUT PRIOR TO DEMOLITION. CONTRACTOR SHALL DOCUMENT AND NOTIFY ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO DEMOLITION.
- ANY OPENINGS CREATED OR EXPOSED IN THE BUILDING ENVELOPE (EXISTING FLOORS, WALLS AND ROOFS) TO REMAIN SHALL BE SEALED WITH TEMPORARY WEATHERTIGHT INFILL CONSTRUCTION SIMULTANEOUS WITH DEMOLITION TO RESIST INTRUSION OF MOISTURE, WEATHER AND PESTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DEMOLITION SUCH THAT DUST, SMOKE, AND OTHER CONTAMINANTS ARE NOT INTRODUCED TO ANY OCCUPIED SPACE. NEWLY MADE, NEWLY UNCOVERED, EXISTING ABANDONED AND EXISTING UNPROTECTED PENETRATIONS IN FLOORS, WALLS, AND PARTITIONS SHALL BE PATCHED. INFILL SHALL BE FOR FIRE RATED CONSTRUCTION WHERE REQUIRED.
- REFERENCE MECHANICAL, ELECTRICAL DRAWINGS FOR EXTENTS OF MEP DEMOLITION NOT SHOWN HERE.
- REFERENCE MECHANICAL & ELECTRICAL DRAWINGS FOR DEMOLITION OF EQUIPMENT WITHIN ROOMS & ABOVE CEILING & ON ROOF, AS WELL AS ASSOCIATED CEILING MODIFICATIONS NECESSARY FOR ACCESS & INSTALLATION OF NEW EQUIPMENT.
- EXISTING STRUCTURE AND FINISHED SURFACES SCHEDULED TO REMAIN WHICH ARE DAMAGED IN THE COURSE OF DEMOLITION SHALL BE REPAIRED OR REPLACED WHERE REPAIRS ARE OBJECTIONABLE TO ARCHITECT.
- PATCH, REPAIR, SKIM EXISTING WALLS WHERE REQUIRED FOLLOWING DEMOLITION OF FINISHES TO REMAIN. TOUCH UP AS NEEDED.
- PROTECT WALLS, CEILING FLOORS AND OTHER EXISTING FINISH WORK THAT ARE TO REMAIN OR THAT ARE EXPOSED DURING DEMOLITION WORK.
- CONTRACTOR SHALL NOTIFY OWNER & ARCHITECT PROMPTLY OF ANY CONDITION UNCOVERED WHICH SHOWS EVIDENCE OF DETERIORATED STRUCTURE, BUILDING ENVELOPE OR LIFE SAFETY ELEMENT WHICH IS SLATED TO REMAIN.
- IN ALL WALLS INDICATED TO BE REMOVED, CONTRACTOR IS RESPONSIBLE FOR DISCONNECTING TO NEAREST JUNCTION BOX AND REMOVING OR CAPPING ANY ELECTRICAL AND PLUMBING LINES BACK TO PANEL OR RISER.
- MASTIC UNDER 12X12 VCT FLOOR TILE IS DEEMED HAZARDOUS. FLOOR TILE AND MASTIC NOT TO BE DISTURBED. IF WORK REQUIRES DISTURBANCE OF THIS MATERIAL, STOP ACTIVITY AND IMMEDIATELY NOTIFY ARCHITECT AND OWNER OF DISCOVERED CONDITION.

**DEMOLITION PLAN LEGEND**

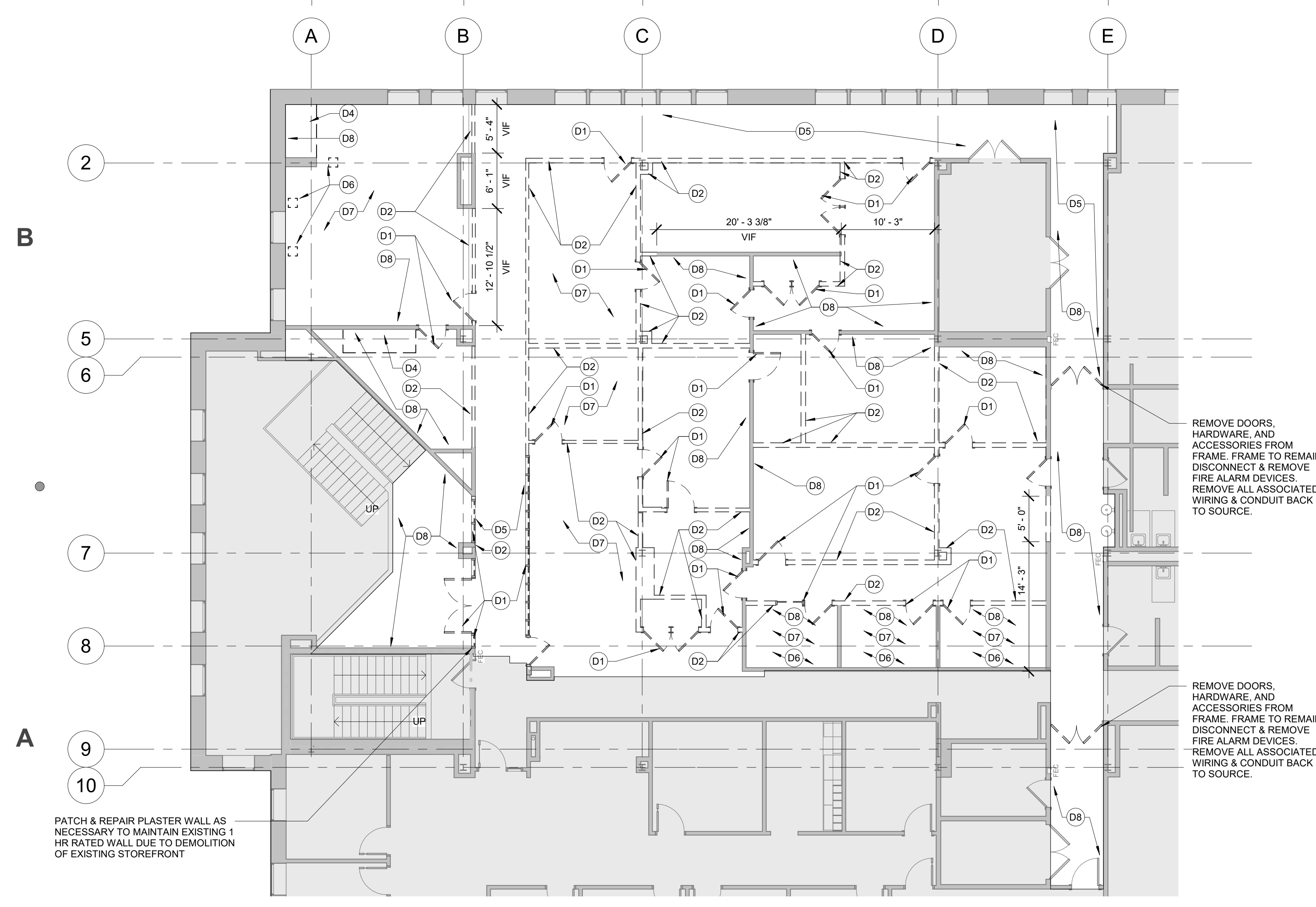


**DEMOLITION KEY NOTES**

- DEMOLISH DOORS, FRAMES, AND DOOR HARDWARE. PREP FOR INFILL WITH METAL STUD AND GWS WHERE INDICATED FOR NEW WORK. PATCH & REPAIR WALL TO RECEIVE NEW FINISH FOR WALLS TO REMAIN AS INDICATED IN NEW WORK.
- DEMOLISH WALLS TO THE EXTENTS INDICATED. SEE MEP DRAWINGS FOR EXTENT OF REMOVAL AND RELOCATION OF UTILITIES.
- DEMOLISH EXISTING ACT CEILING AND ALL ASSOCIATED ITEMS INCLUDING GRID AND SUSPENSION SYSTEM IN ITS ENTIRETY AS IDENTIFIED IN HATCHED EXTENTS.
- REMOVE ALL BUILT IN FURNITURE, CASEWORK, AND ACCESSORIES IN THEIR ENTIRETY WHERE APPLICABLE. SEE MEP DRAWINGS FOR EXTENT OF REMOVAL AND RELOCATION OF UTILITIES.
- DEMOLISH HM FRAME, GLAZING, AND ALL ASSOCIATED ITEMS.
- DISCONNECT & REMOVE EXPOSED ASSOCIATED WIRING & CONDUIT BACK TO SOURCE.
- DEMOLISH EXISTING CARPET ABOVE VCT FLOOR TILE IN ALL LOCATIONS WITHIN SCOPE. REFER TO GENERAL DEMOLITION NOTE 14 REGARDING NOT DISTURBING EXISTING HAZARDOUS FLOORING BENEATH CARPET.
- DEMOLISH COVE/WOOD BASE AND MOULDING/RAILS AS APPLICABLE. PREPARE EXISTING WALLS TO REMAIN FOR NEW FINISH.
- PREPARE EXISTING WALL TO REMAIN FOR EXTENSION TO UNDERSIDE OF EXISTING GWS

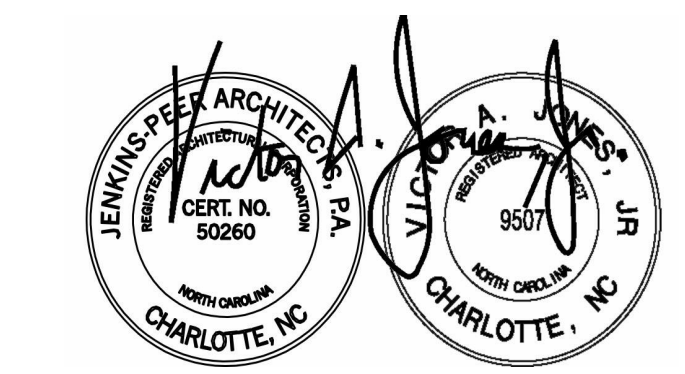


**C5 LEVEL 2 DEMOLITION REFLECTED CEILING PLAN**  
1/8" = 1'-0"



**A5 LEVEL 2 DEMOLITION FLOOR PLAN**  
1/8" = 1'-0"





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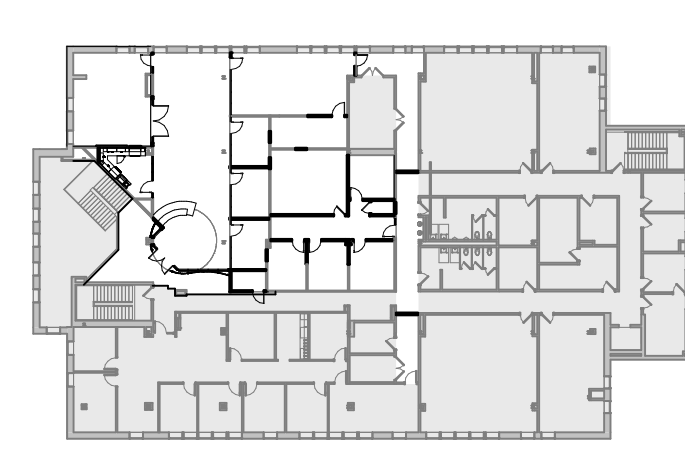


**UNC PEMBROKE  
 AMERICAN INDIAN  
 HERITAGE  
 CENTER**  
 SCO ID#: 21-23067-01A

TAG	DESCRIPTION	DATE

Project: 21PEM587  
 Drawn By: RS/ DJ  
 Checked By: RH/ JM  
 Date: 1/10/2022  
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**FLOOR PLANS &  
 PARTITION TYPES**



1" = 50'-0"  
 PROJECT NORTH  
 TRUE NORTH

**BID DOCUMENTS**

**GENERAL FLOOR PLAN NOTES**

- REFER TO SHEET A-101 FOR THE WALL & PARTITION TYPES SCHEDULE.
- EXISTING WALLS TO REMAIN ARE INDICATED IN HALFTONE. ALL OTHER WALLS SHOWN ARE NEW.
- REFER TO LIFE SAFETY PLANS FOR FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINET LOCATIONS.
- DIMENSIONS ARE TAKEN TO FINISH FACE OF WALLS AND PARTITIONS UNLESS NOTED OTHERWISE.
- REFER TO ENLARGED PLANS FOR CONTINUATION OF WALL TYPES AND DIMENSIONS.
- DOOR JAMBS SET 4" FROM FACE OF ADJACENT WALL TYP. U.N.O.
- BLOCKING SHALL BE PROVIDED FOR ALL WALL AND CEILING MOUNTED ACCESSORIES, EQUIPMENT, HANDRAILS, FIXTURES, CABINETS, CASEWORK, SHELVING, ETC. SHOWN ON ANY DRAWING. COORDINATE WITH FURNITURE, AND EQUIPMENT PLANS FOR MARKER BOARDS, TACK BOARDS, WALL MOUNTED EQUIPMENT, AND CARD READER LOCATIONS.
- ENCLOSE ALL EXPOSED DUCTS, PIPES, CONDUITS, ETC. IN FINISHED SPACE WITH CONSTRUCTION & FINISH TO MATCH ADJACENT CONSTRUCTION U.N.O.
- PROVIDE ACCESS DOORS OF APPROPRIATE SIZE, TYPE & FIRE RATING FOR ALL CONCEALED ITEMS THAT REQUIRE ADJUSTMENT, MAINTENANCE, MONITORING, ETC. COORDINATE LOCATIONS WITH ARCHITECT.
- COORDINATE WITH ELECTRICAL DWGS FOR FLOOR BOX QUANTITIES AND TYPE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS. COORDINATE FINAL LOCATIONS WITH THE ARCHITECT.
- ALL EXTERIOR WINDOWS IN IDENTIFIED PROJECT SCOPE LIMITS TO RECEIVE HORIZONTAL ALUMINUM WINDOW BLINDS UNO. BLINDS ARE NOT REQUIRED AT LOBBIES AND CORRIDORS.
- DO NOT DETERMINE DIMENSIONS AND SIZE OF THE GRAPHIC REPRESENTATIONS SHOWN ON THE DRAWINGS BY USING MEASURING DEVICE (DO NOT "SCALE"). RELY ON THE NUMERIC DIMENSIONS SHOWN ON THE DRAWINGS FOR MEASUREMENT. SIGNAGE TO BE PROVIDED AND INSTALLED BY OWNER.

**FLOOR, RCP, AND FURNITURE PLAN LEGEND**

**WALL & PARTITION NOTES**

- REFERENCE FLOOR PLANS FOR CORRESPONDING WALL TAGS.
- ALL WALL TYPES G4 U.N.O.
- INFILL ALL OPENINGS DEMOLISHED TO MATCH ADJACENT EXISTING WALL THICKNESS. PROVIDE CONTINUITY OF RATING AS APPLICABLE.
- REFERENCE FURNITURE PLANS AND FINISH SCHEDULE FOR WALL FINISHES.
- ALL GYPSUM WALL BOARD IS 5/8" THICK UNLESS OTHERWISE INDICATED.
- ALL PARTITIONS TO BE BRACED TO STRUCTURE AS SPECIFIED.
- METAL STUD PARTITION TO EXTEND TO UNDERSIDE OF EXISTING SUB-CEILING. GWB & BATT INSULATION TO STOP BY ABOVE ADJACENT FINISHED CEILING.
- ALL FIRE-RATED WALLS AND SMOKE WALLS ARE TO BE SEALED TO DECK ABOVE AND ALL PENETRATIONS SEALED.
- ALLOW 1/4" GAP AT BASE AND HEAD TRACK FOR ALL ACOUSTICALLY RATED WALLS FOR SEALANT.
- SEAL ALL OPENINGS, GAPS, PENETRATIONS, AND JOINTS IN PARTITION TYPES AS FOLLOWS:  
 A. FIRE RATED BARRIERS: SEAL IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE DIVISION 07 SPECIFICATION SECTIONS FOR PENETRATION FIRESTOP SYSTEMS AND FIRE RESISTIVE JOINTS SYSTEMS. REFER TO CODE COMPLIANCE DRAWINGS FOR LOCATIONS OF SMOKE BARRIERS.  
 B. OTHER LOCATIONS: SEAL AS INDICATED AND REQUIRED ELSEWHERE BY THE CONTRACT DOCUMENTS.

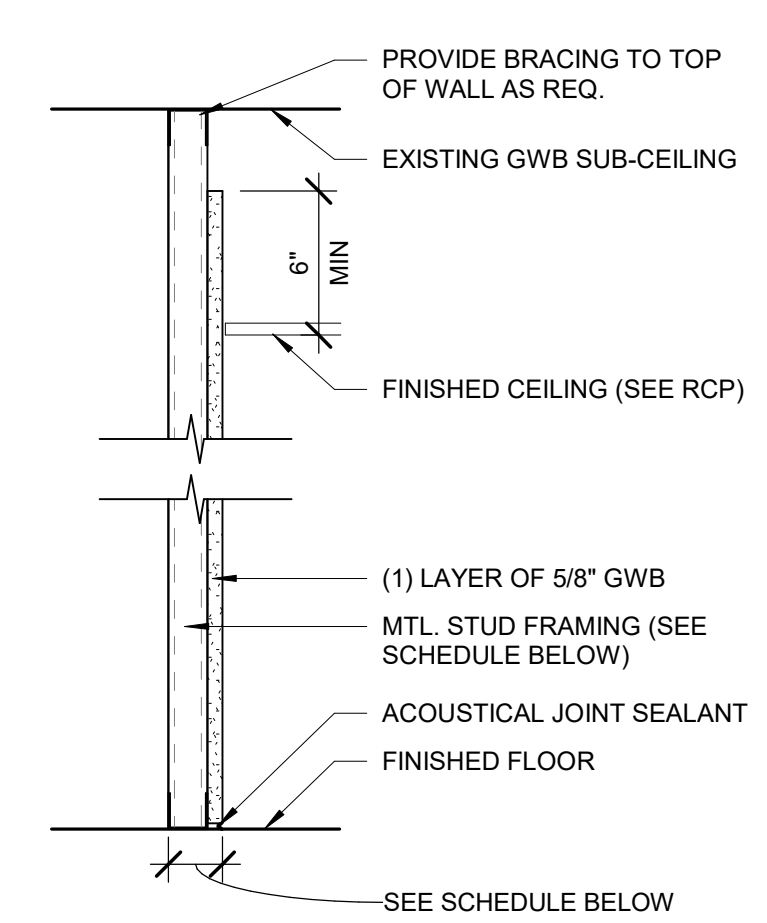
**WALL & PARTITION TAG LEGEND**

Wall Partition Mark/Tag Example:  
 G = Wall or Partition Assembly Type  
 4 = Sequence Number (Core size or NIC Value)  
 b = Rating or Height

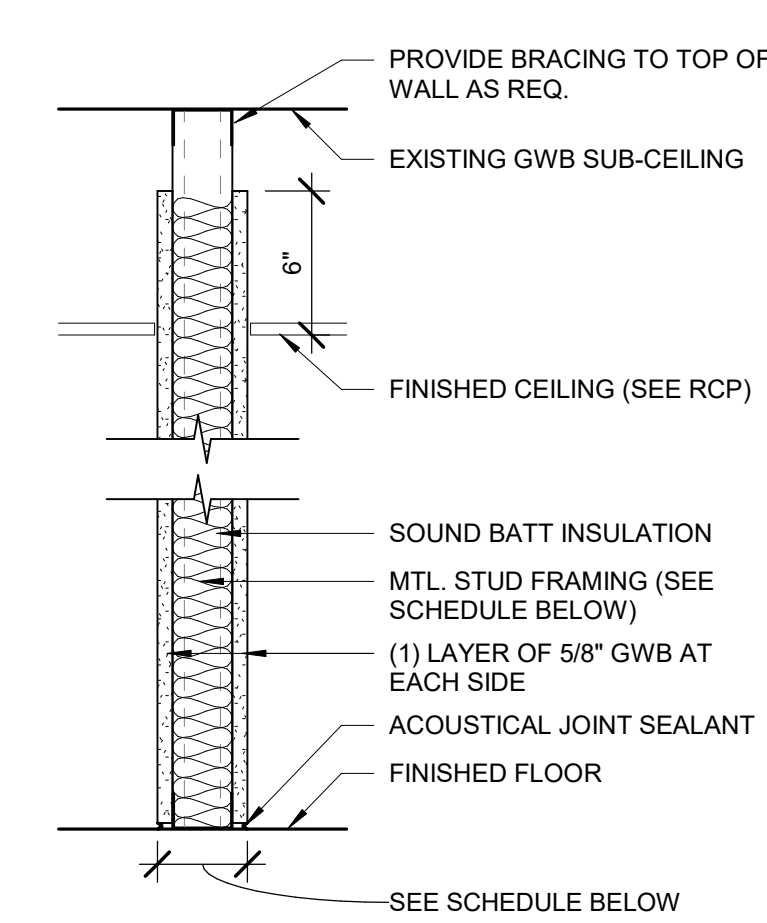
Wall or Partition Assembly Type:  
 F = Furring / Single Sided Gypsum Wall  
 G = Gypsum & Metal Stud

Sequence Number:  
 The number of the assembly, which also correlates to the thickness of the structural core member of the wall, or the NIC value for the acoustic walls.

Rating (Fire/Smoke and Height):  
 A5 = No Rating - Full Height  
 A5r = No Rating - 8' Above Ceiling  
 A5s = No Rating - Partition Height Specified on Plans



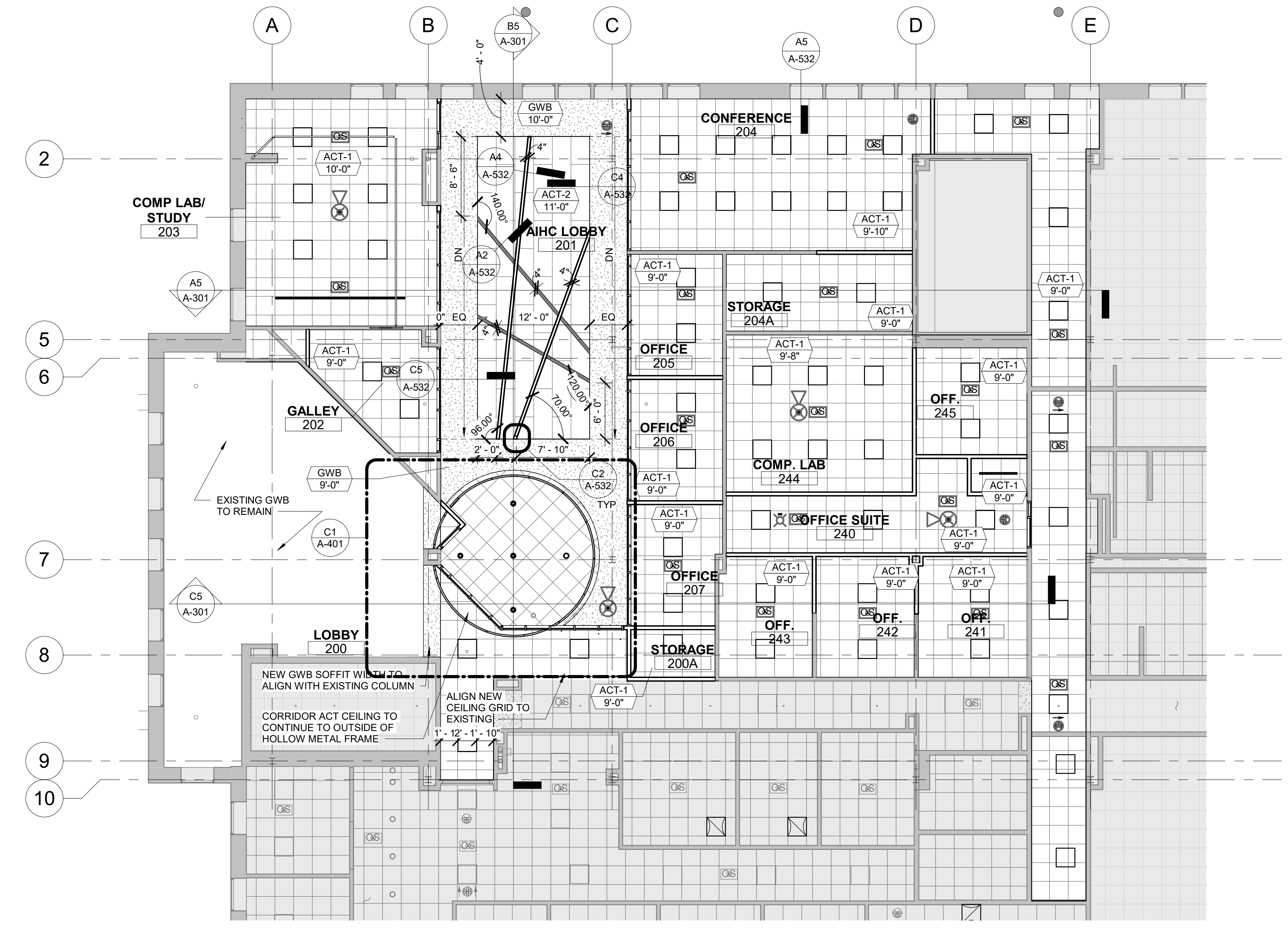
TYPE	STUD SIZE	TOTAL THICK.	BATT INSUL.
F4	3 5/8"	4 1/4"	NONE



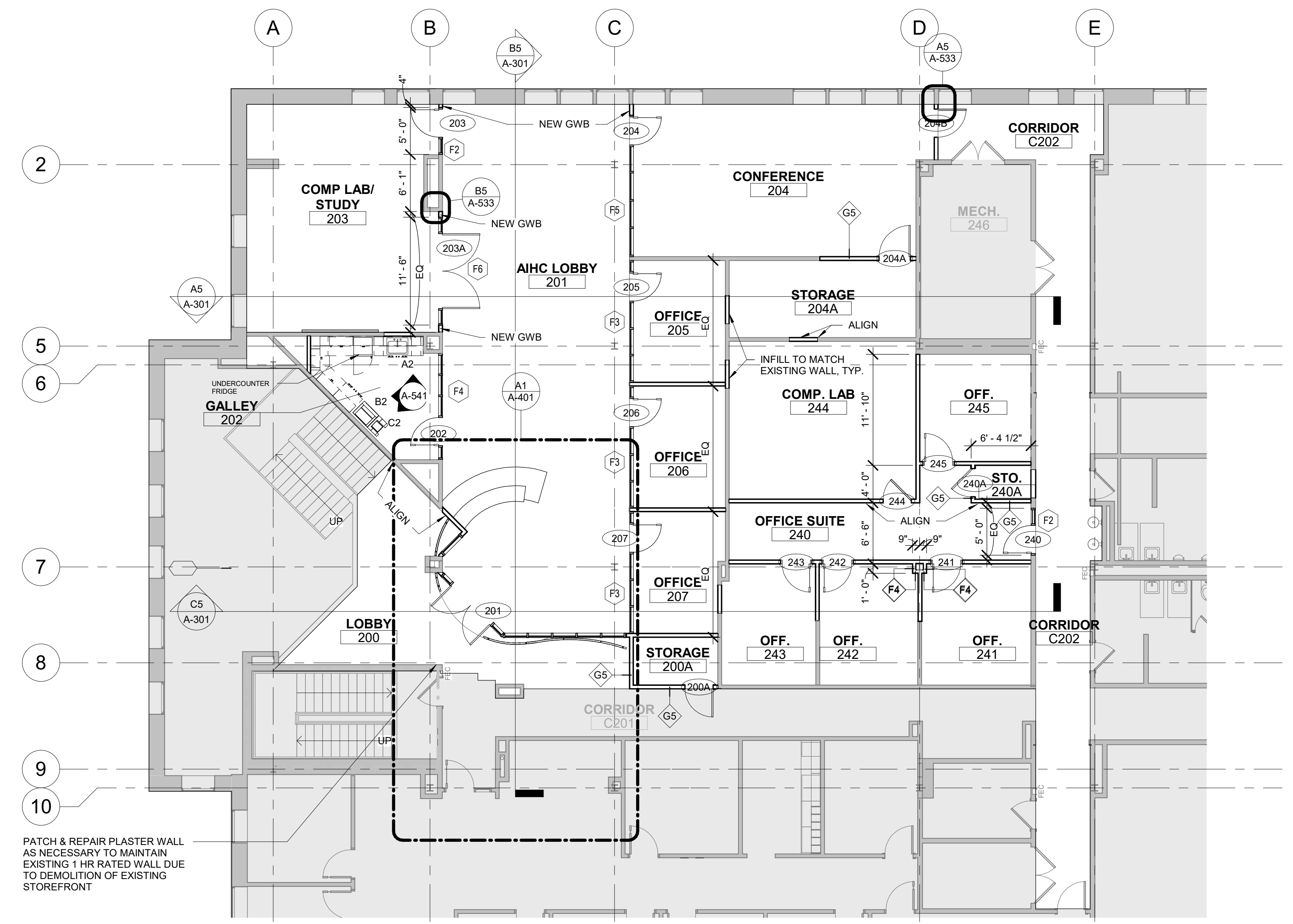
TYPE	STUD SIZE	TOTAL THICK.	SOUND BATT INSUL.
G4	3 5/8"	4 7/8"	YES
G5	3 5/8"	4 7/8"	NO

**B3 WALL & PARTITION TYPES**  
 1 1/2" = 1'-0"

3



**C5 LEVEL 2 REFLECTED CEILING PLAN**  
 1/8" = 1'-0"

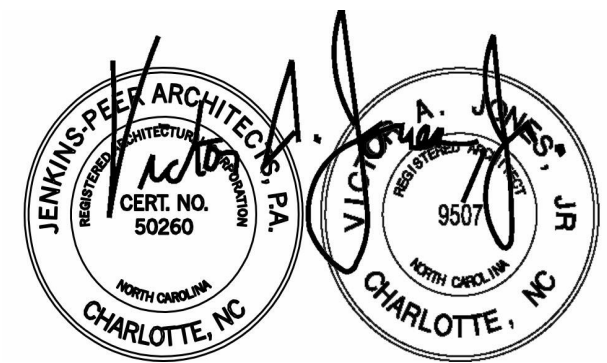


**A5 LEVEL 2 PLAN**  
 1/8" = 1'-0"

5

1





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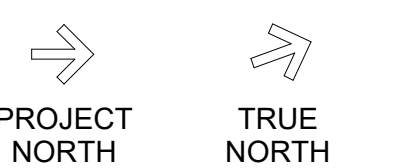
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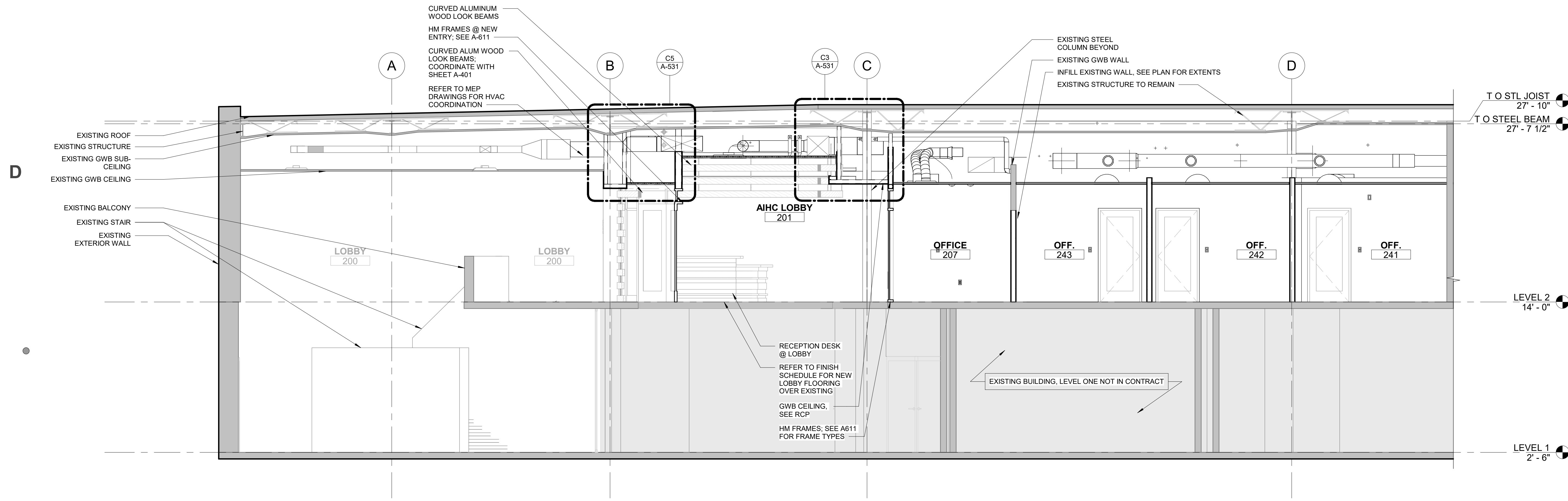
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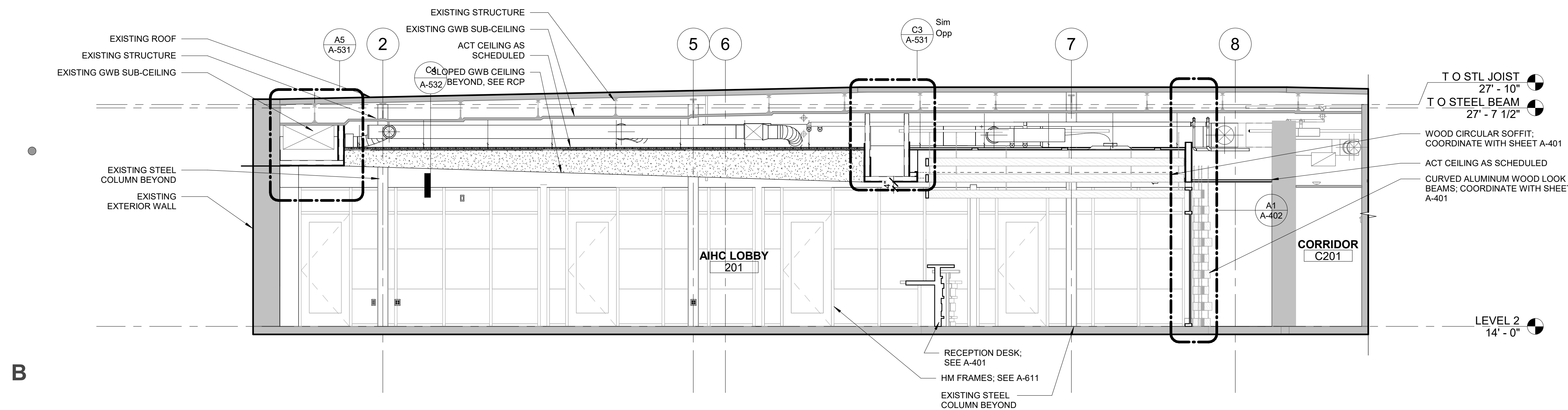
**BUILDING  
SECTIONS**



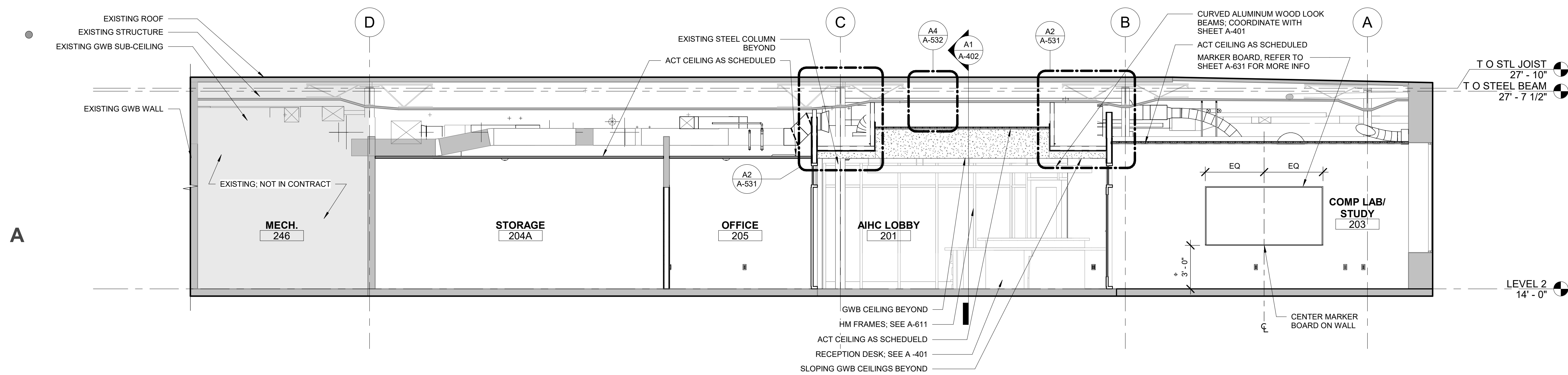
**BID DOCUMENTS**



**C5 NS SECTION 2**  
1/4" = 1'-0"



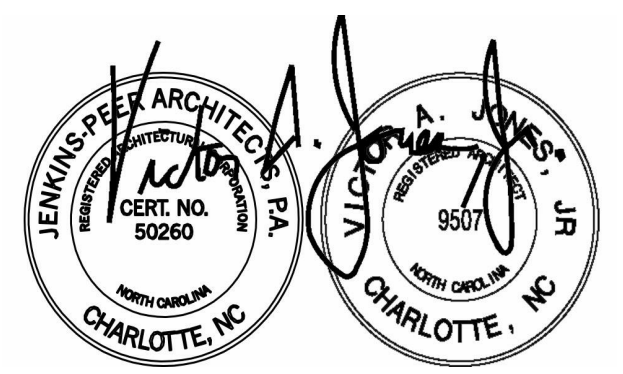
**B5 EW SECTION 1**  
1/4" = 1'-0"



**A5 NS SECTION 1**  
1/4" = 1'-0"

5 4 3 2 1





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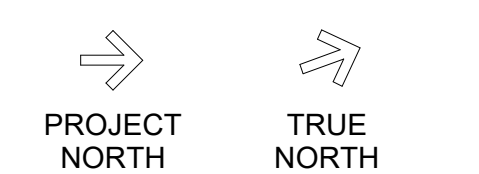
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**ENLARGED  
PLANS,  
ELEVATIONS &  
SIGNAGE AT  
ENTRY - BASE BID**

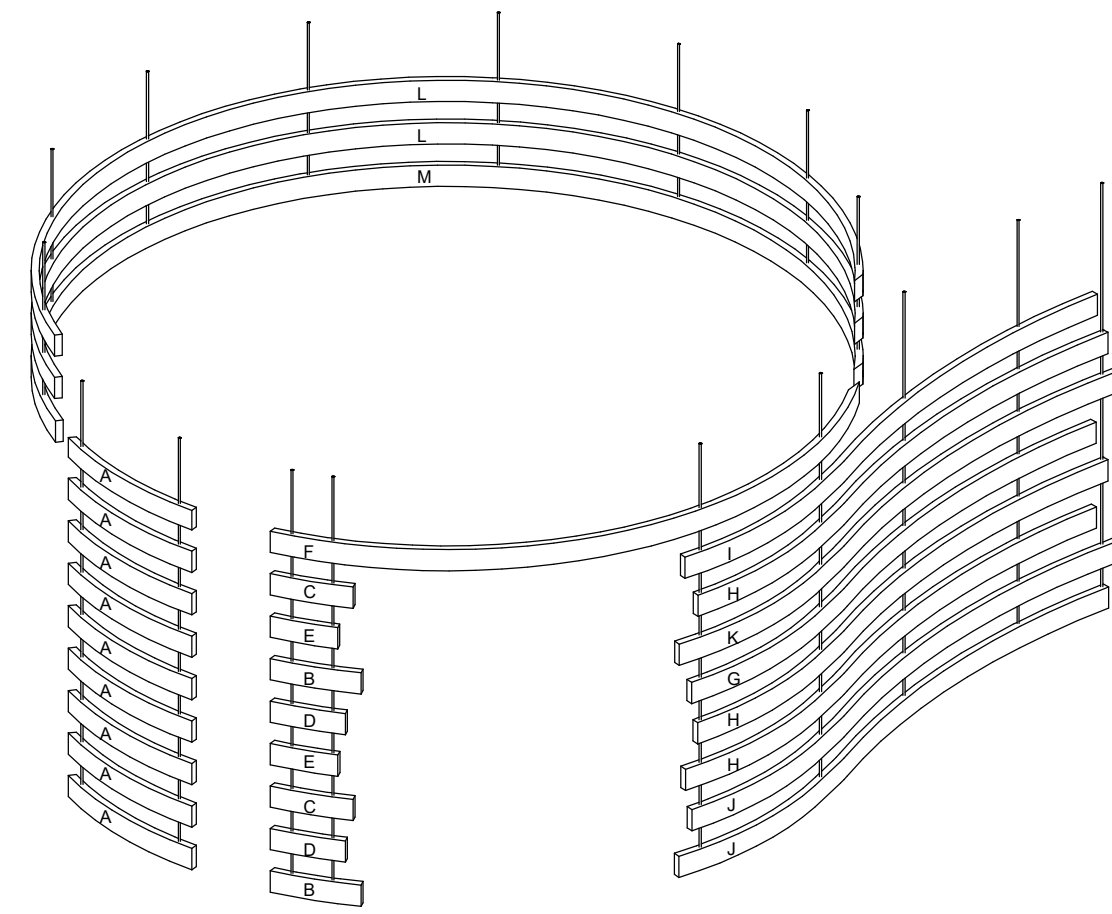


**BID DOCUMENTS**

**A-401**

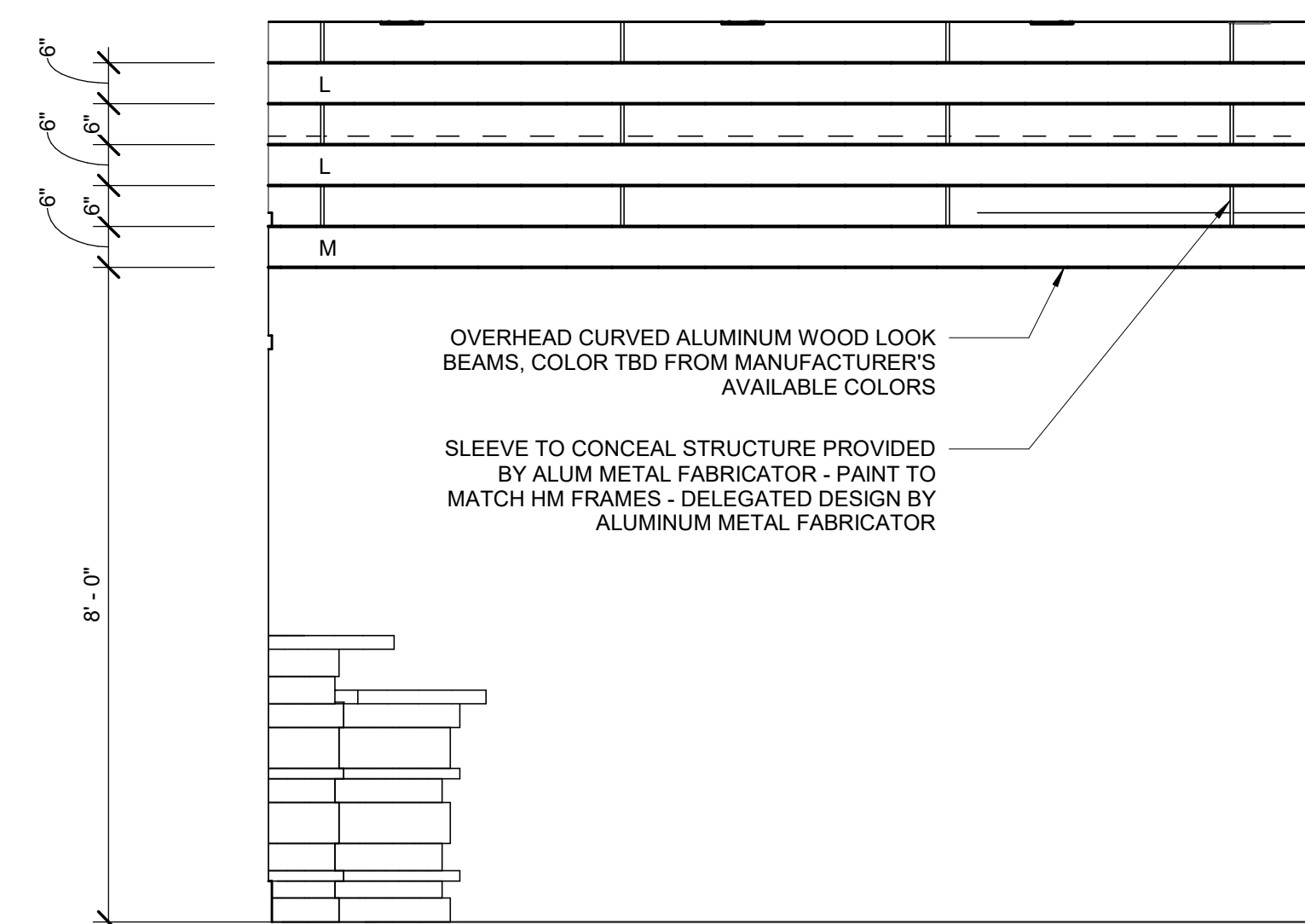
CURVED WOOD SIZING SCHEDULE			
DESCRIPTION	DIMENSION	QUANTITY	COMMENTS
A	6"H x 2"D x 4'-2"L +/-	9	CURVE 1
B	6"H x 2"D x 2'-0"L +/-	2	CURVE 1
C	6"H x 2"D x 1'-10"L +/-	2	CURVE 1
D	6"H x 2"D x 1'-8"L +/-	2	CURVE 1
E	6"H x 2"D x 1'-6"L +/-	2	CURVE 1
F	6"H x 2"D x 16'-2"L +/-	1	CURVE 1/ CURVE 2
G	6"H x 2"D x 14'-6"L +/-	1	CURVE 1/ CURVE 2
H	6"H x 2"D x 14'-8"L +/-	3	CURVE 1/ CURVE 2
I	6"H x 2"D x 14'-9"L +/-	1	CURVE 1/ CURVE 2
J	6"H x 2"D x 15'-2"L +/-	2	CURVE 1/ CURVE 2
K	6"H x 2"D x 15'-6"L +/-	1	CURVE 1/ CURVE 2
L	6"H x 2"D x 30'-0"L +/-	2	CURVE 2
M	6"H x 2"D x 30'-2"L +/-	1	CURVE 2
N	4"H x 1"D x 7'-4 1/8"L +/-	1	CURVE 1 - DESK
O	4"H x 1/8"D x 7'-5"L +/-	1	CURVE 1 - DESK
P	3 1/2"H x 2"D x 9'-0 1/2"L +/-	1	CURVE 1 - DESK
Q	6"H x 1"D x 9'-0 3/4"L +/-	1	CURVE 1 - DESK
R	1 1/2"H x 2"D x 9'-0 1/2"L +/-	1	CURVE 1 - DESK
S	3 1/2"H x 1/8"D x 9'-0 7/8"L +/-	1	CURVE 1 - DESK
T	6"H x 1"D x 9'-0 3/4"L +/-	1	CURVE 1 - DESK
U	4"H x 1/8"D x 9'-0 7/8"L +/-	1	CURVE 1 - DESK
V	1 1/2"H x 2"D x 9'-0 1/2"L +/-	1	CURVE 1 - DESK
W	2 1/2"H x 1/8"D x 9'-0 7/8"L +/-	1	CURVE 1 - DESK
X	3 1/2"H x 1"D x 9'-0 3/4"L +/-	1	CURVE 1 - DESK
Y	3 1/2"H x 2"D x 2'-6"L +/-	1	STRAIGHT - SIDE OF DESK
Z	6"H x 1"D x 2'-5"L +/-	1	STRAIGHT - SIDE OF DESK
AA	1 1/2"H x 2"D x 2'-6"L +/-	1	STRAIGHT - SIDE OF DESK
BB	3 1/2"H x 1/8"D x 2'-4"L +/-	1	STRAIGHT - SIDE OF DESK
CC	6"H x 1"D x 2'-5"L +/-	1	STRAIGHT - SIDE OF DESK
DD	4"H x 1/8"D x 2'-4"L +/-	1	STRAIGHT - SIDE OF DESK
EE	1 1/2"H x 2"D x 2'-6"L +/-	1	STRAIGHT - SIDE OF DESK
FF	2 1/2"H x 1/8"D x 2'-4"L +/-	1	STRAIGHT - SIDE OF DESK
GG	3 1/2"H x 1"D x 2'-5"L +/-	1	STRAIGHT - SIDE OF DESK

GENERAL NOTES  
1. FIELD VERIFY ALL DIMENSIONS  
2. SEE SHEET A-402 FOR DIMENSIONS FOR DESK AND FURTHER INFORMATION.

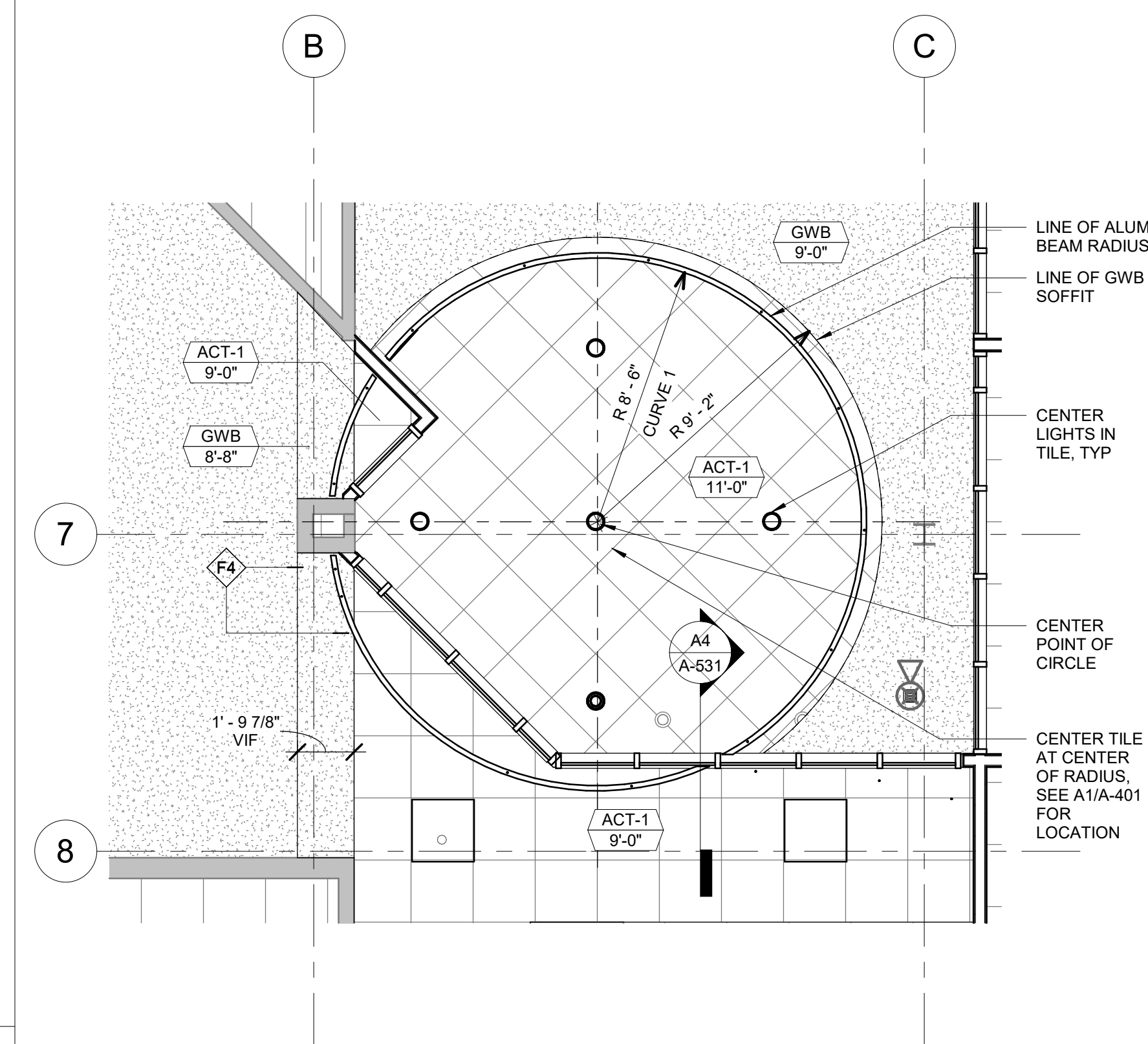


GENERAL NOTES:  
- PROVIDE SHOP DRAWINGS TO CLEARLY INDICATE HOW THREADED RODS WOULD BE USED FOR SUPPORT  
- 6" WOOD SIZE ADJUSTMENT FOR WOOD NOMINAL SIZE  
- STAGGERED HAIRLINE JOINTS AS REQUIRED BY MATERIAL

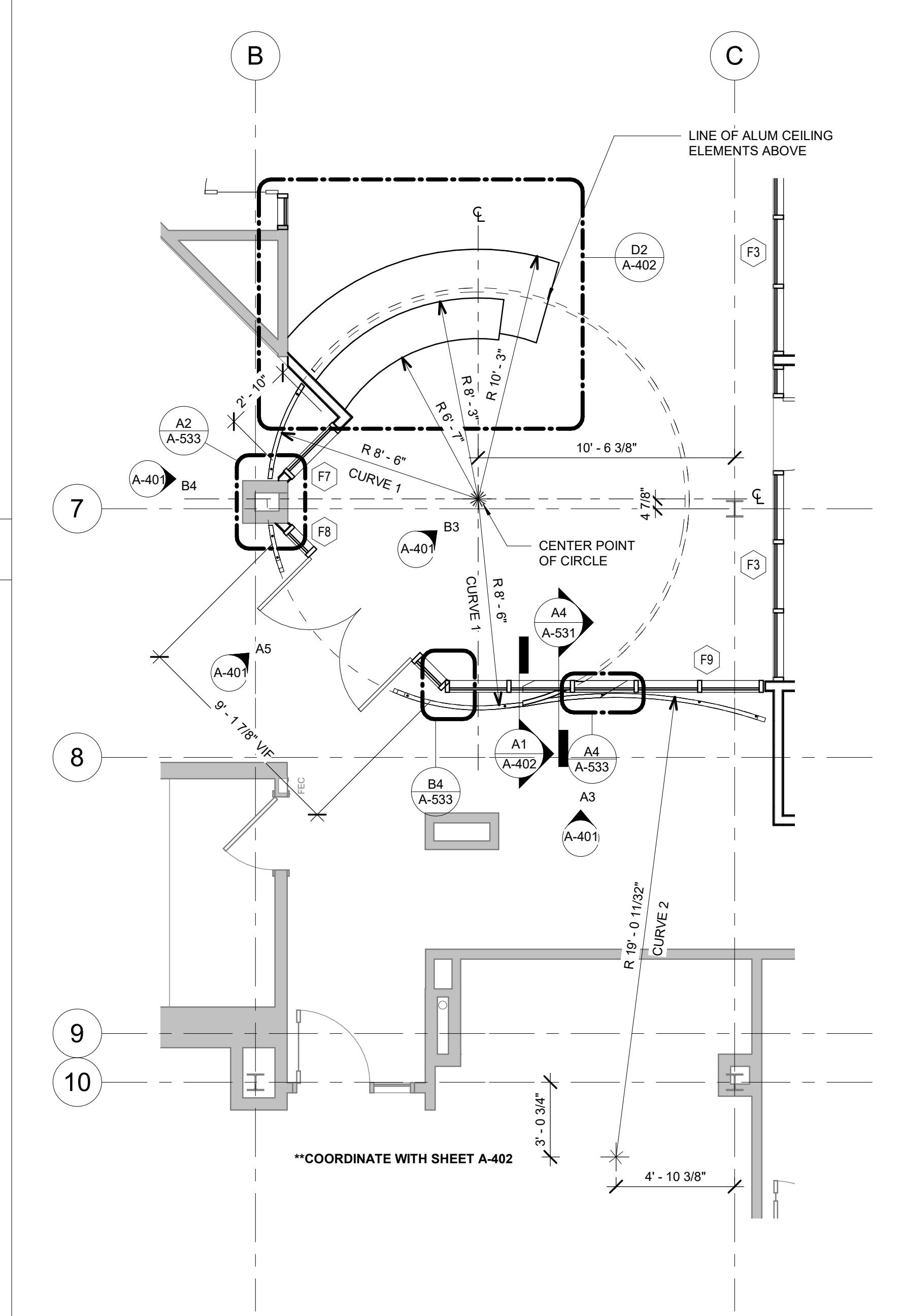
**D3 3D REFERENCE 1**



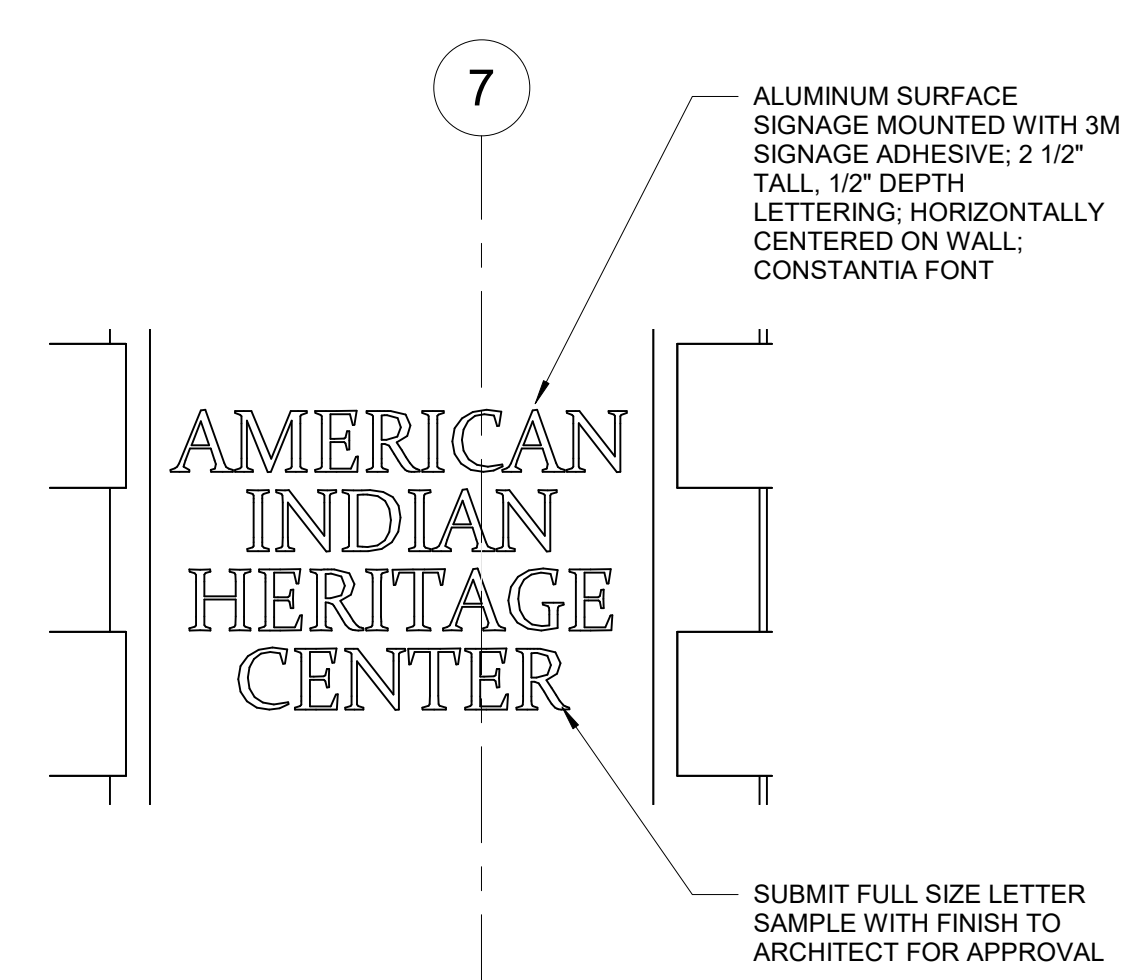
**B3 WOOD FEATURE ELEVATION AT CEILING DETAIL/ DESK**  
1/2" = 1'-0"



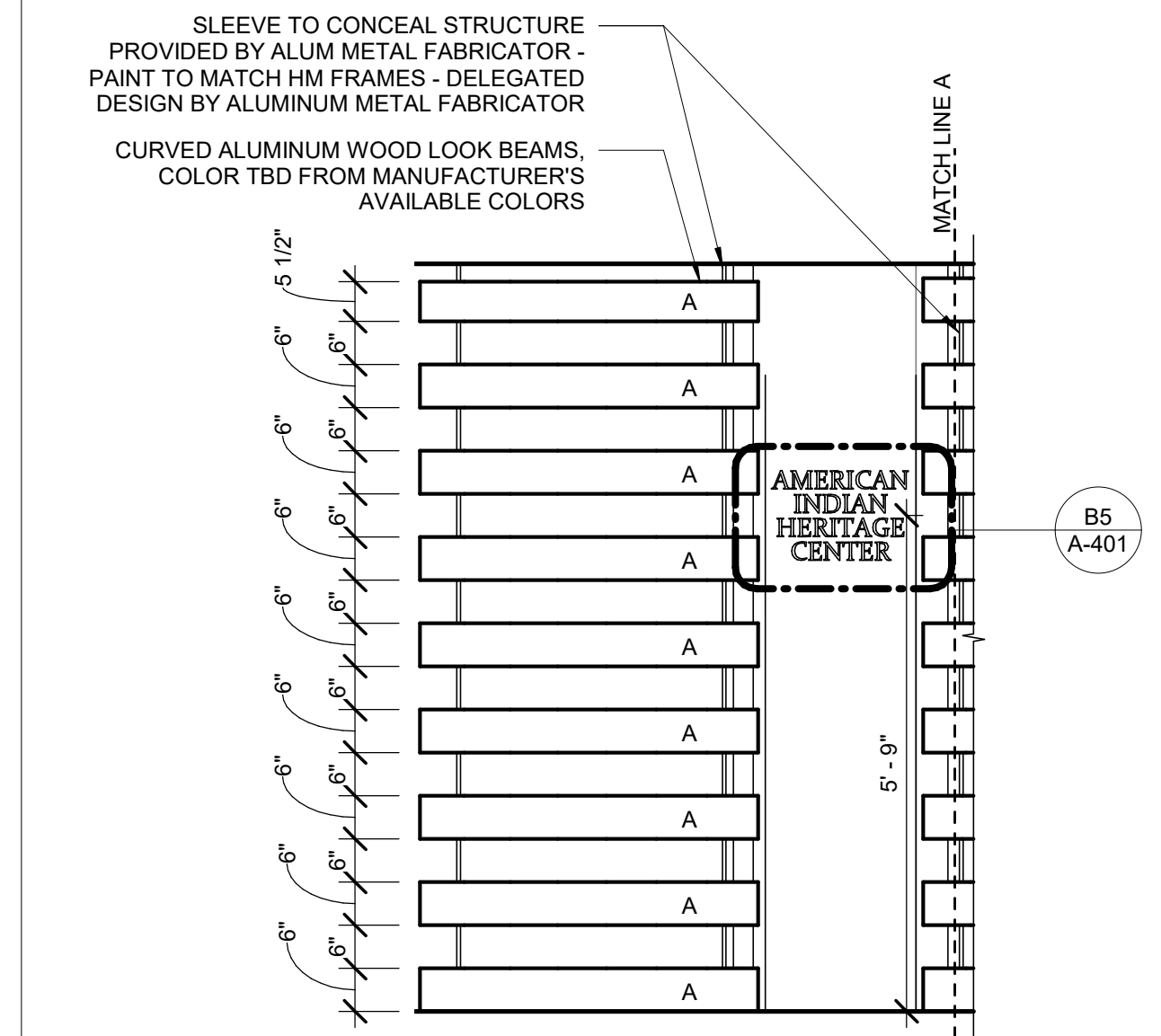
**C1 ENLARGED ENTRY RCP - WOOD FEATURE**  
1/4" = 1'-0"



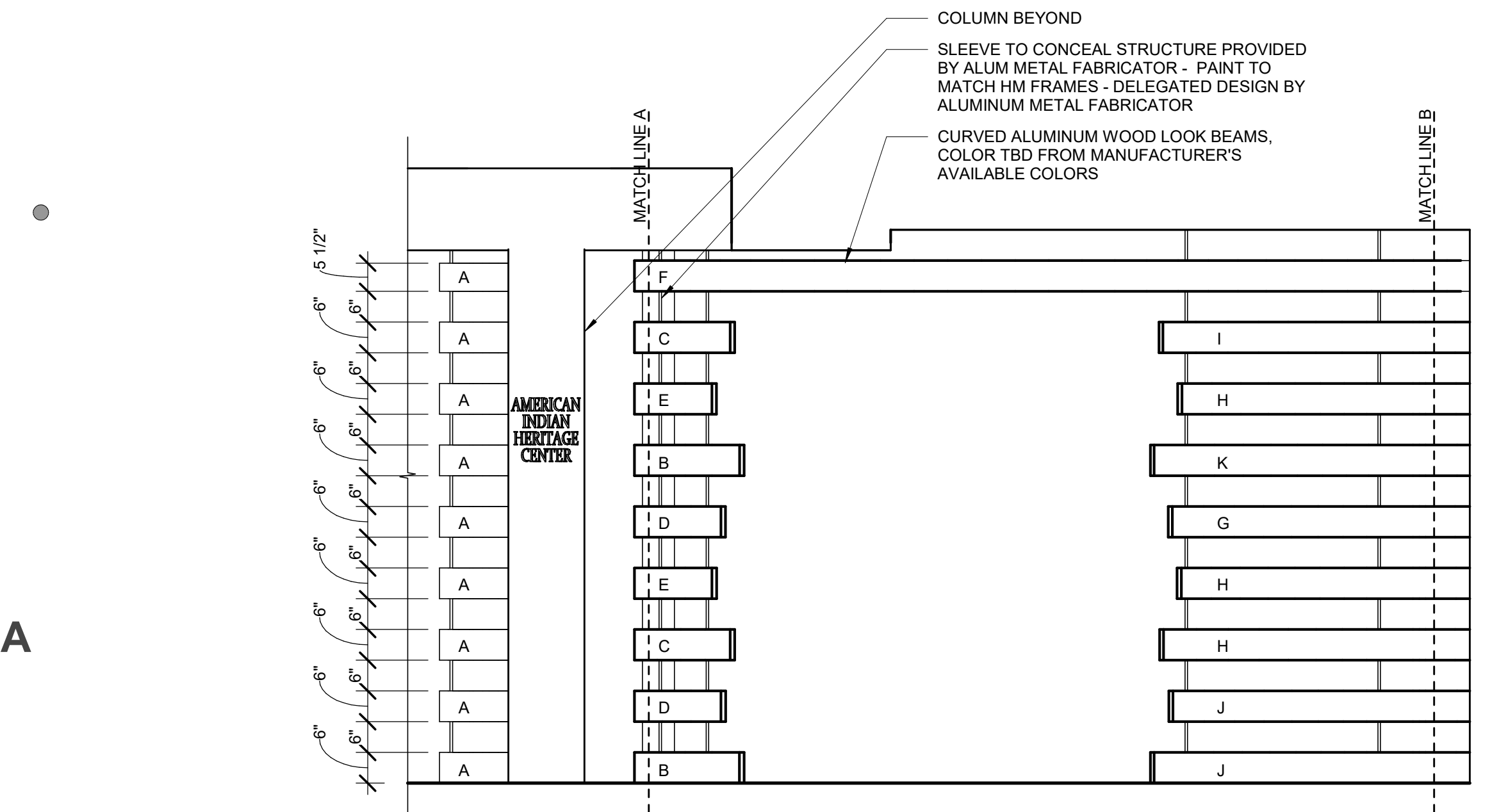
**A1 ENLARGED ENTRY PLAN - WOOD FEATURE**  
1/4" = 1'-0"



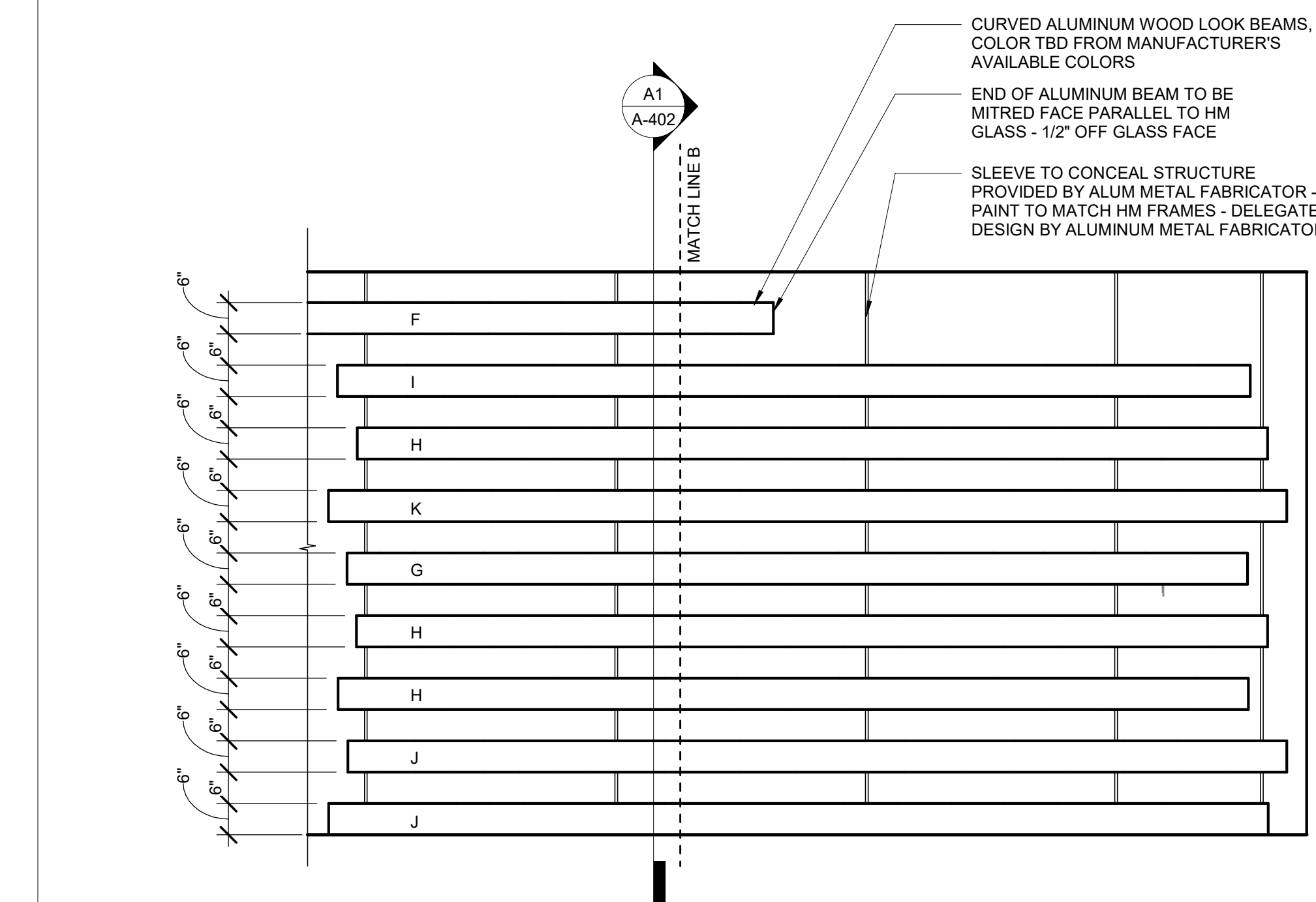
**B5 ENTRY SIGN ELEVATION**  
1 1/2" = 1'-0"



**B4 WD FEATURE ELEV @ PLAN LEFT**  
1/2" = 1'-0"



**A5 WOOD FEATURE ELEVATION @ ENTRANCE**  
1/2" = 1'-0"

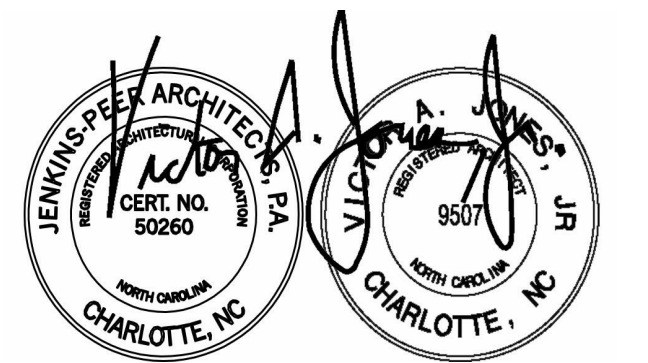


**A3 WOOD FEATURE ELEVATION @ PLAN RIGHT**  
1/2" = 1'-0"









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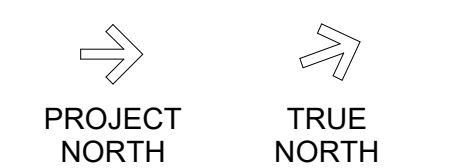
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TAG	DESCRIPTION	DATE

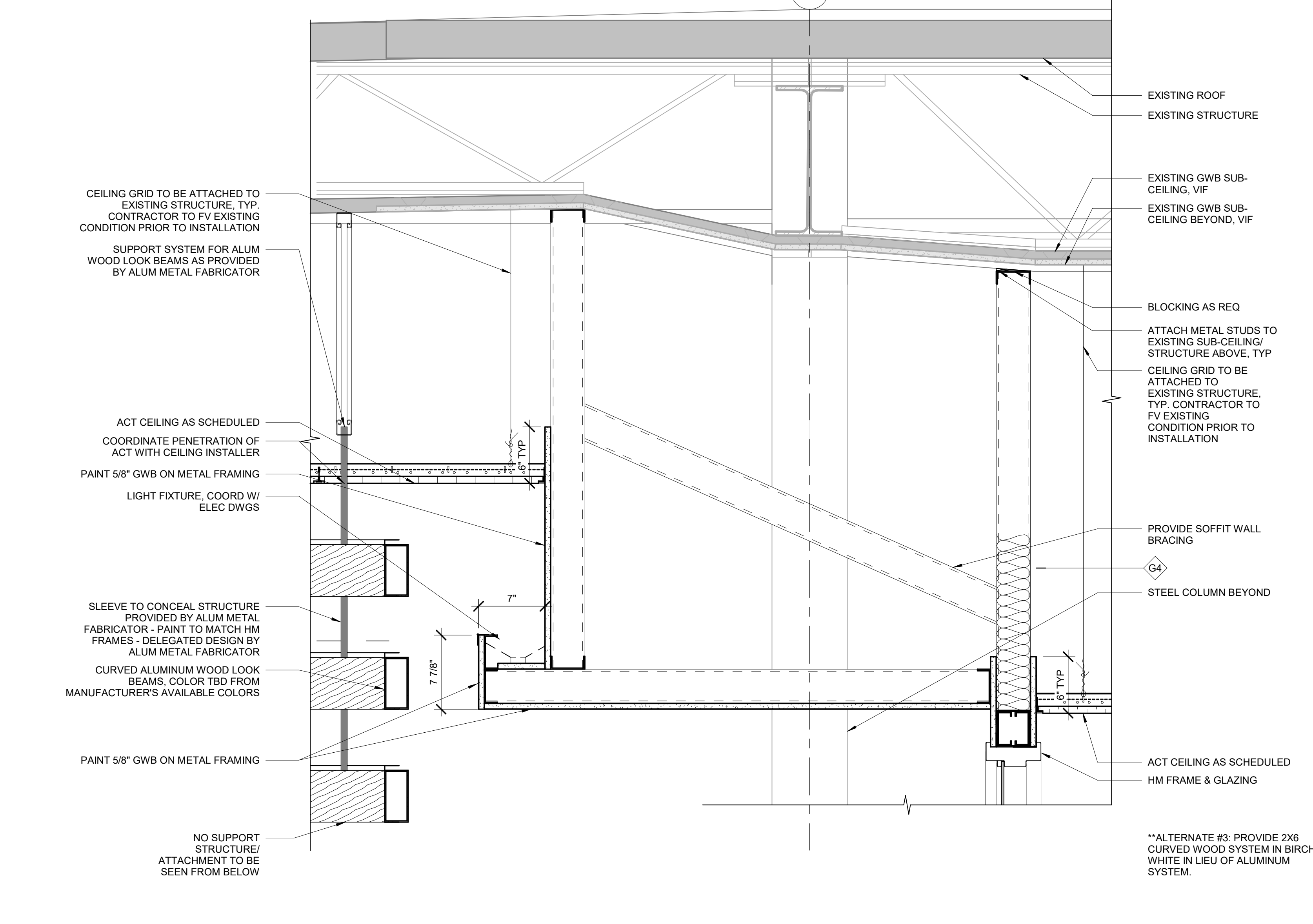
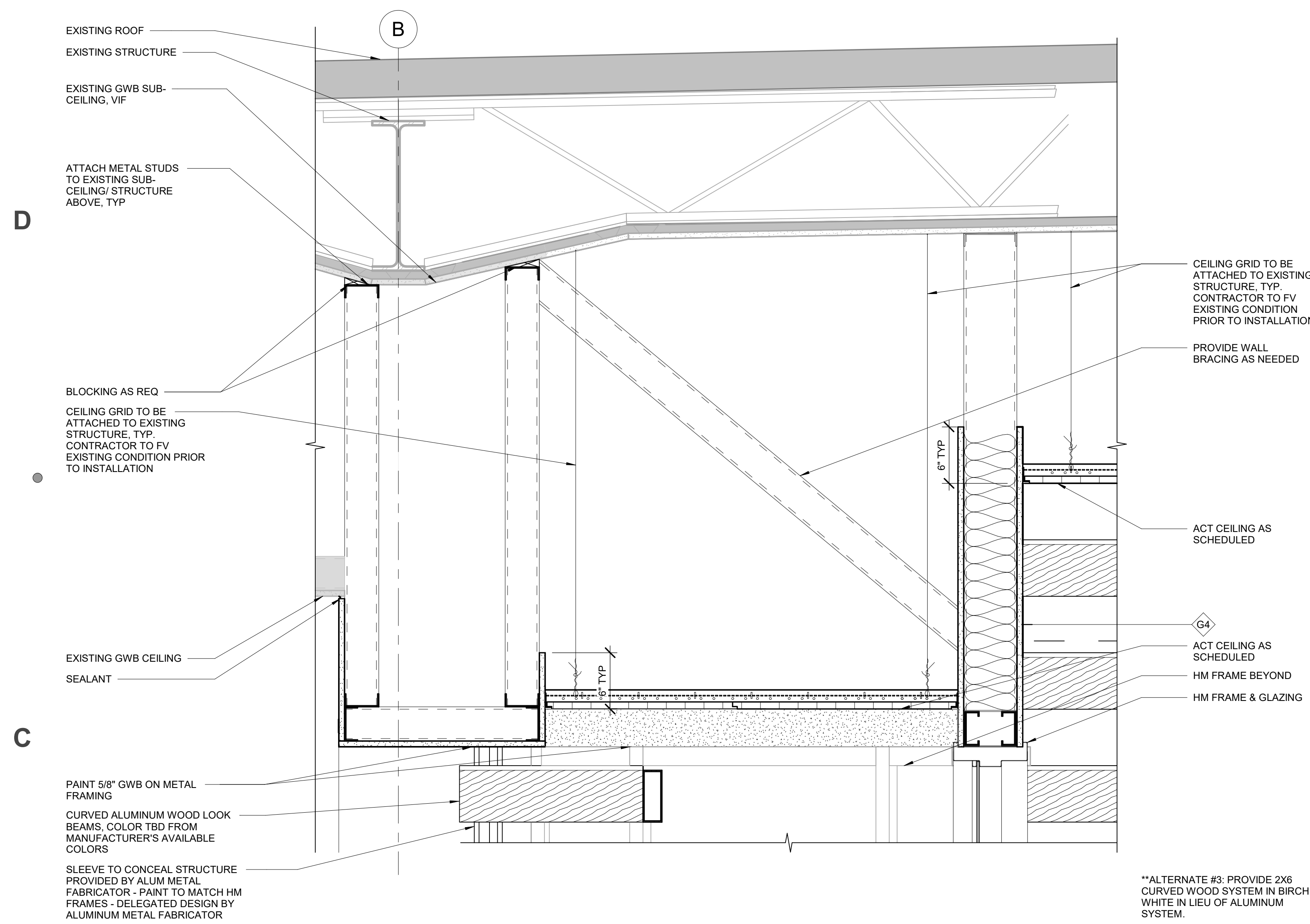
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Checked By: RH/ JM  
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**INTERIOR  
DETAILS**

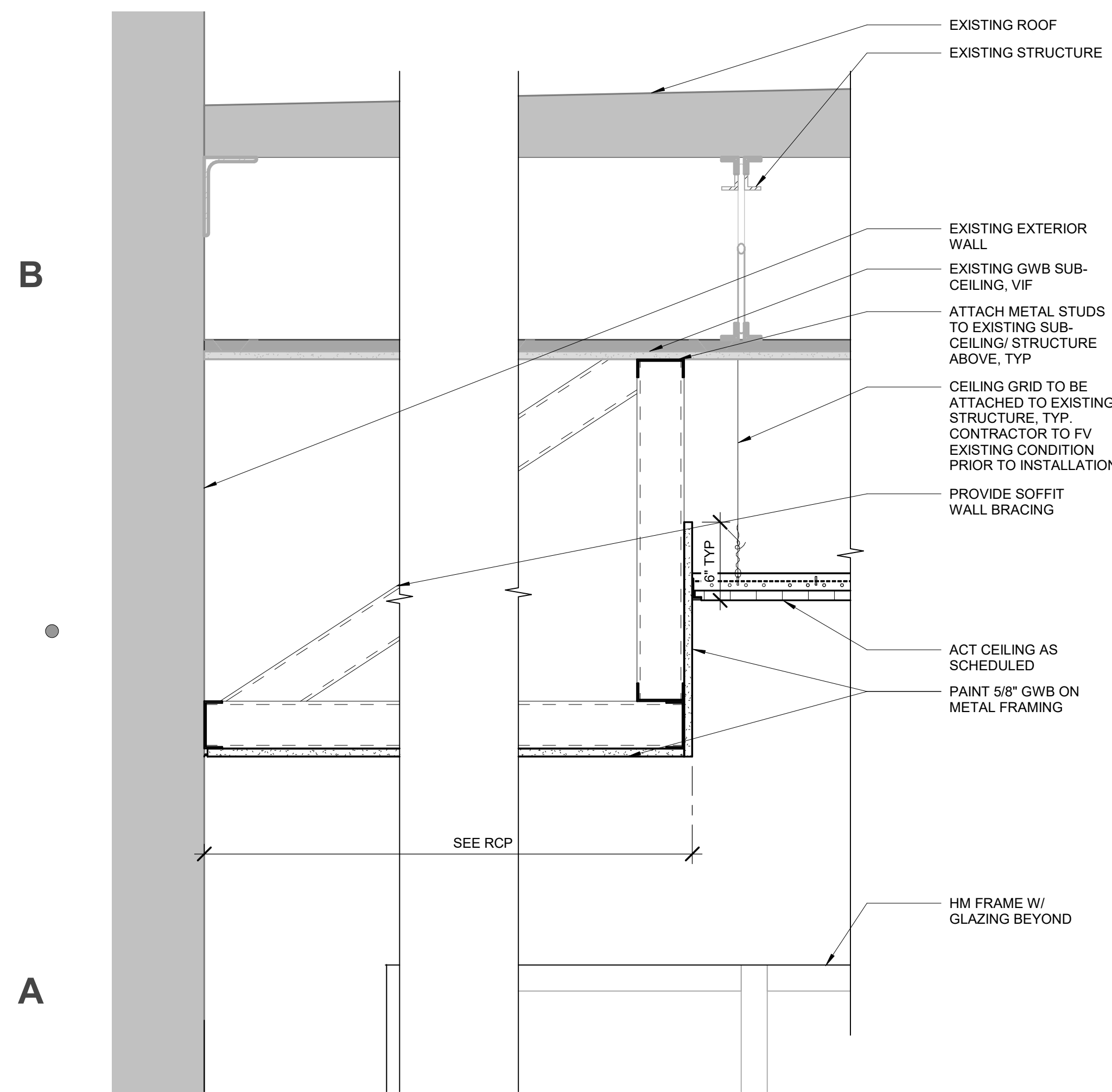


**BID DOCUMENTS**

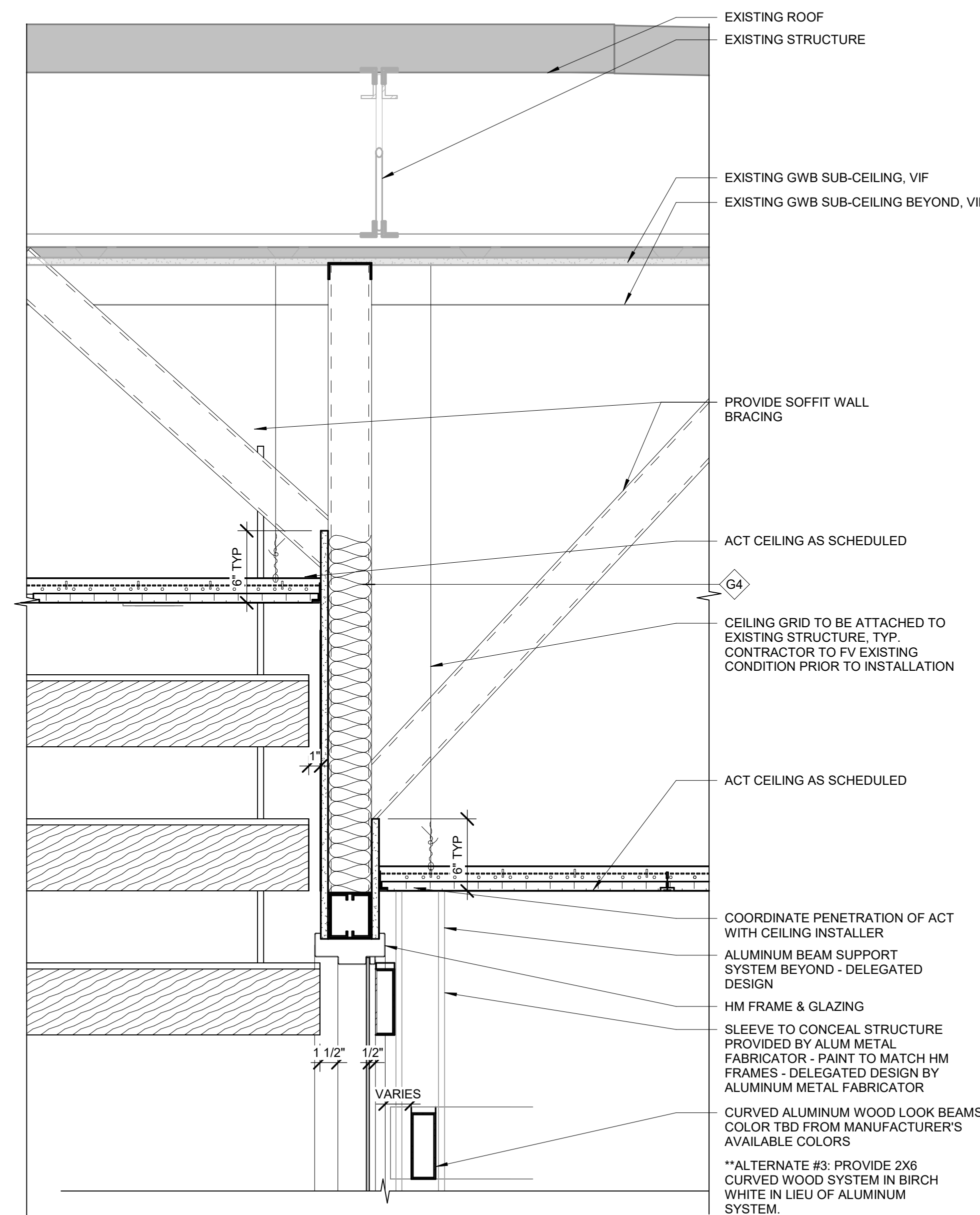


**C5 SOFFIT AT ENTRY**  
1/12" = 1'-0"

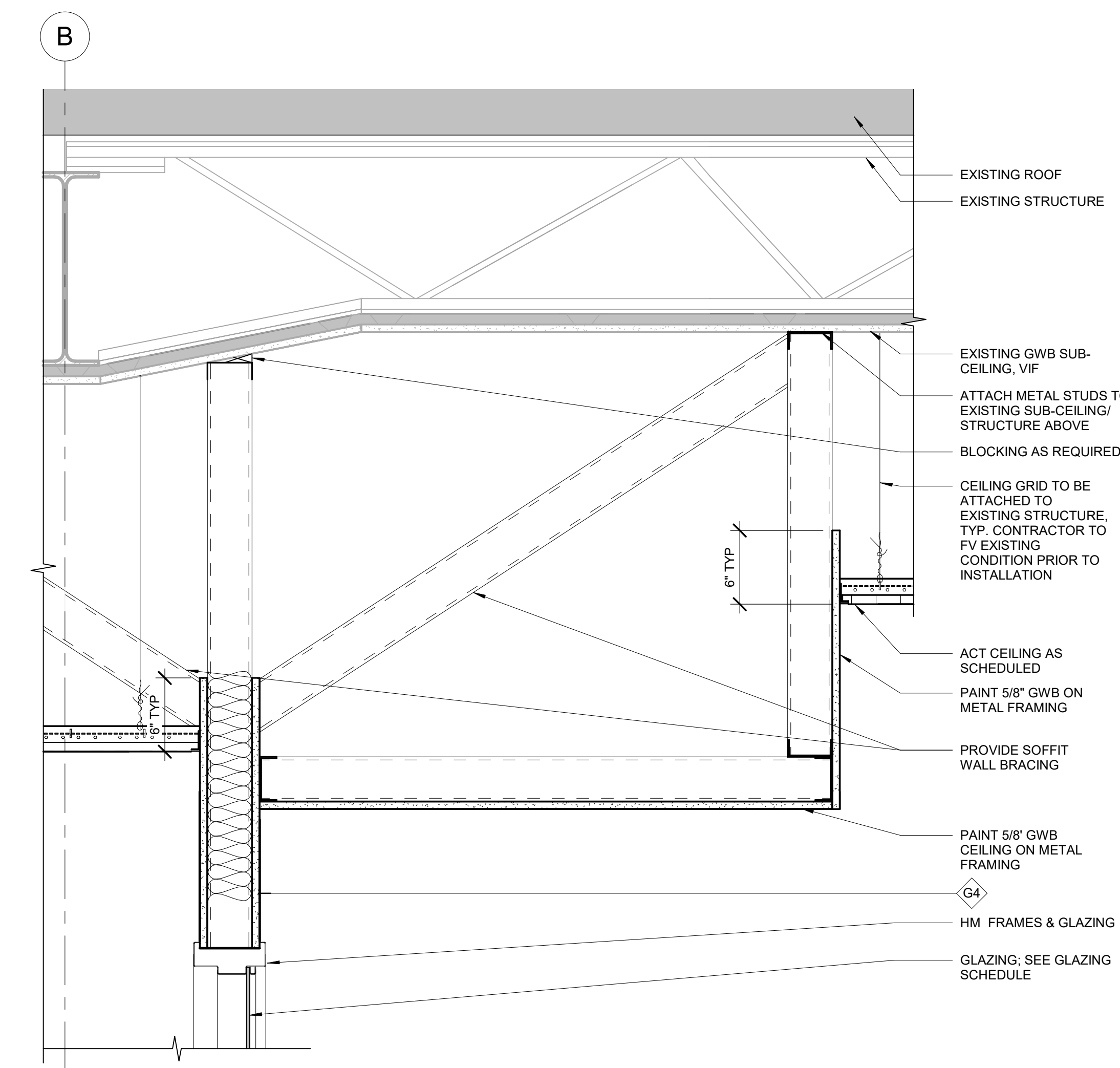
**C3 DETAIL @ LIGHT COVE**  
1/12" = 1'-0"



**A5 SOFFIT AT EXTERIOR WALL**  
1/12" = 1'-0"



**A4 HM FRAME @ CURVED WOOD PLANKS**  
1/12" = 1'-0"



**A2 SLOPED CEILING SOFFIT IN LOBBY**  
1/12" = 1'-0"

5

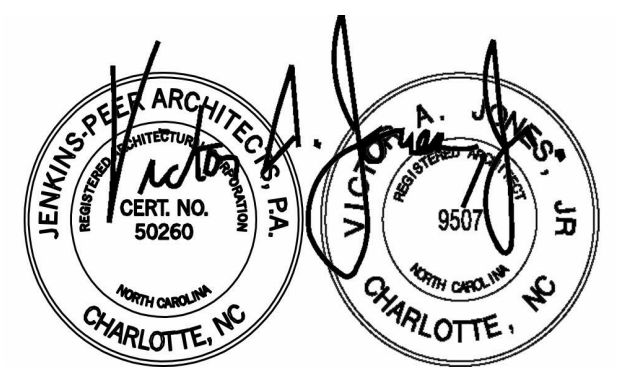
4

3

2

1





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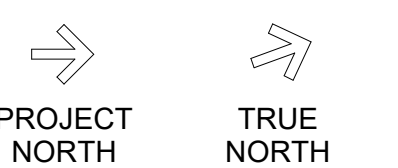


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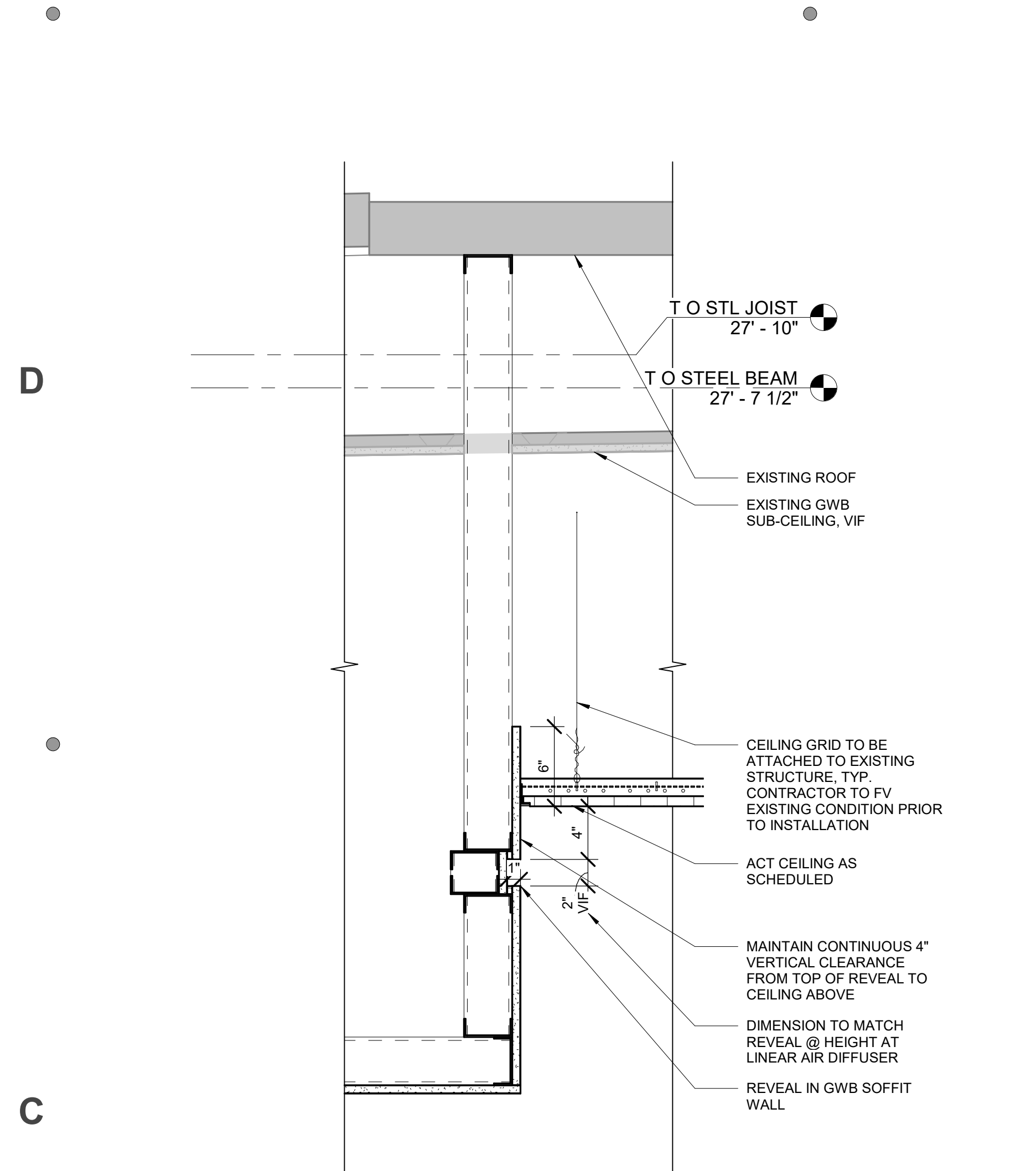
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**INTERIOR**  
**DETAILS**

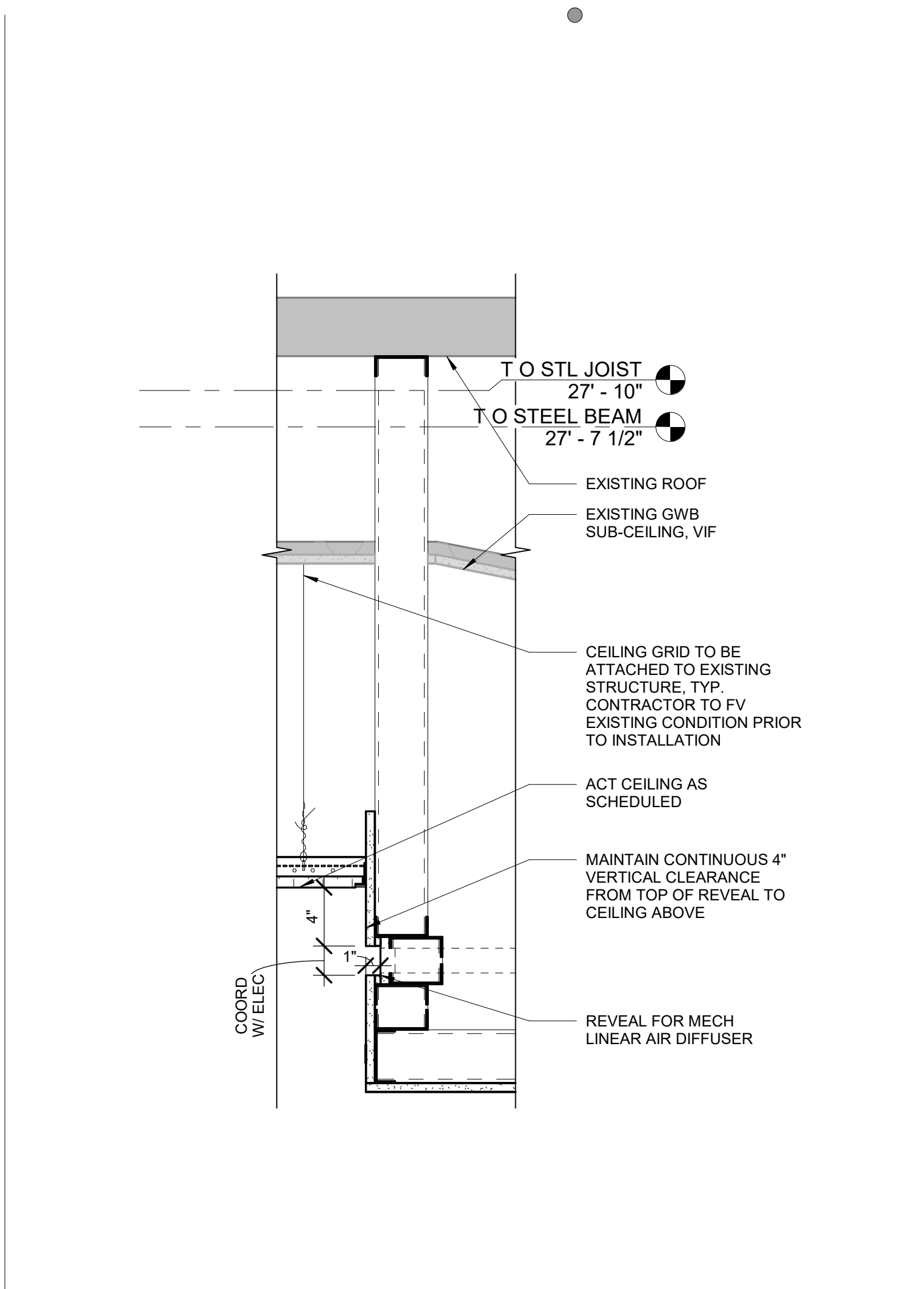


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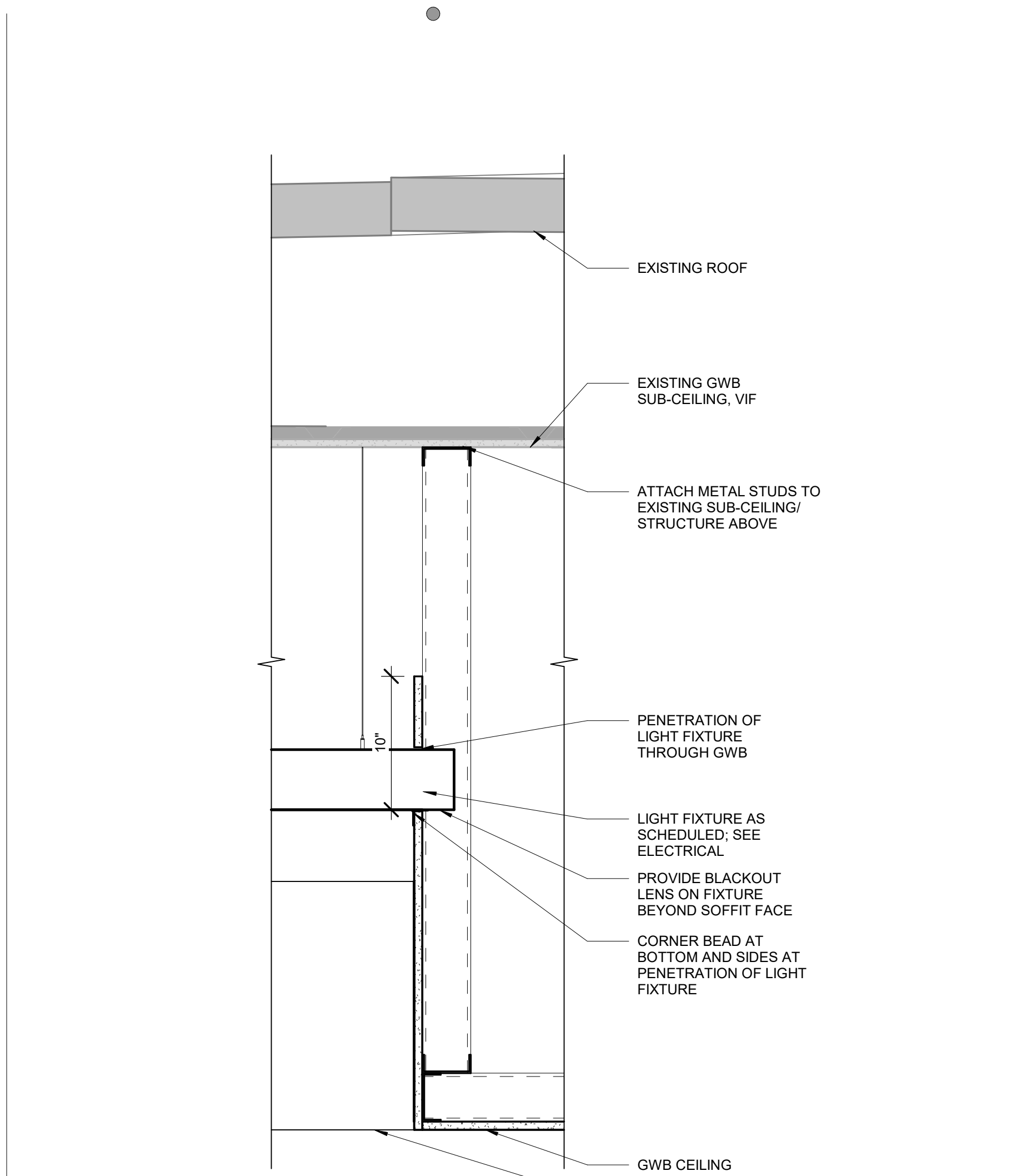
**A-532**



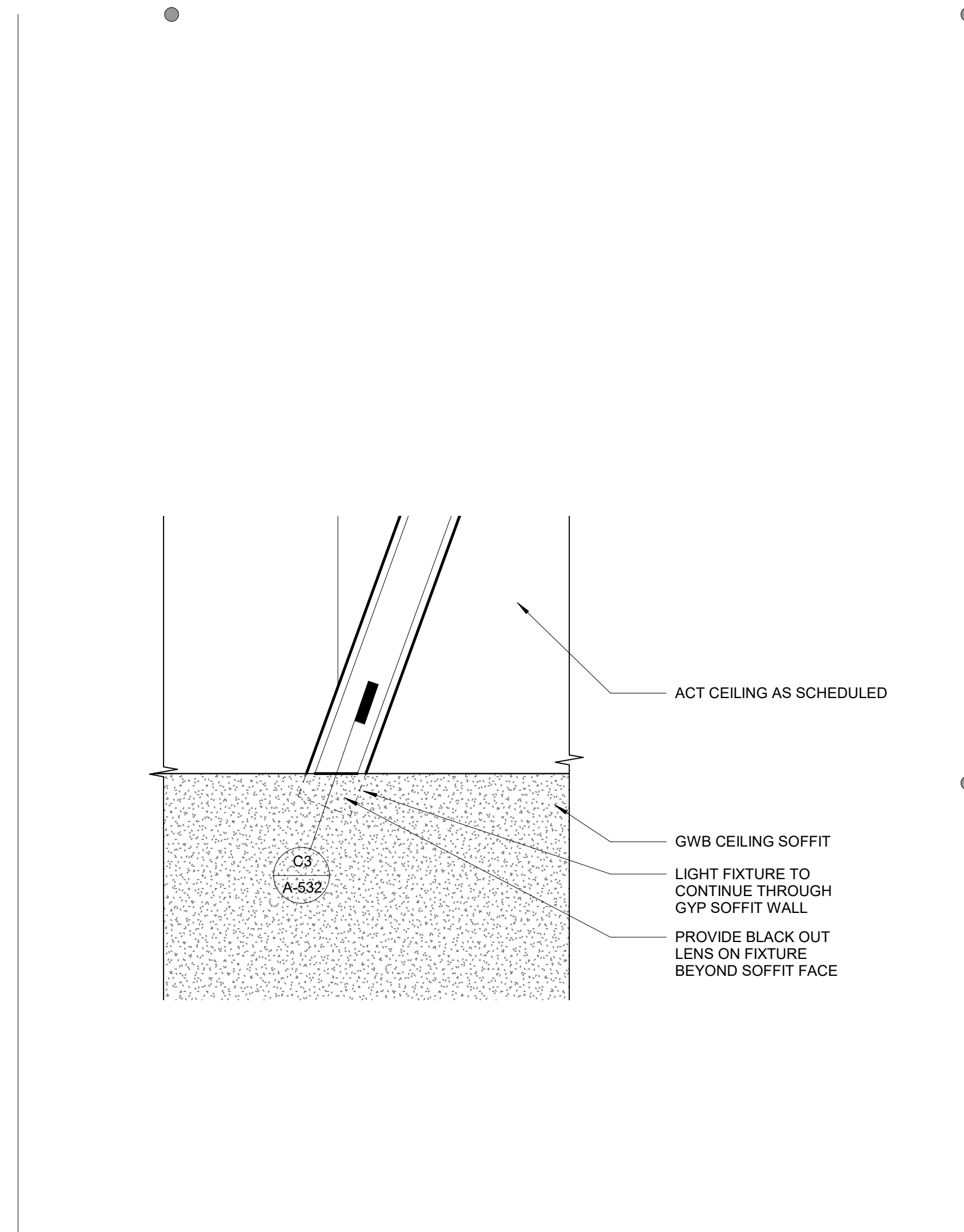
**C5** DETAIL @ GWB SOFFIT REVEAL  
 1 1/2" = 1'-0"



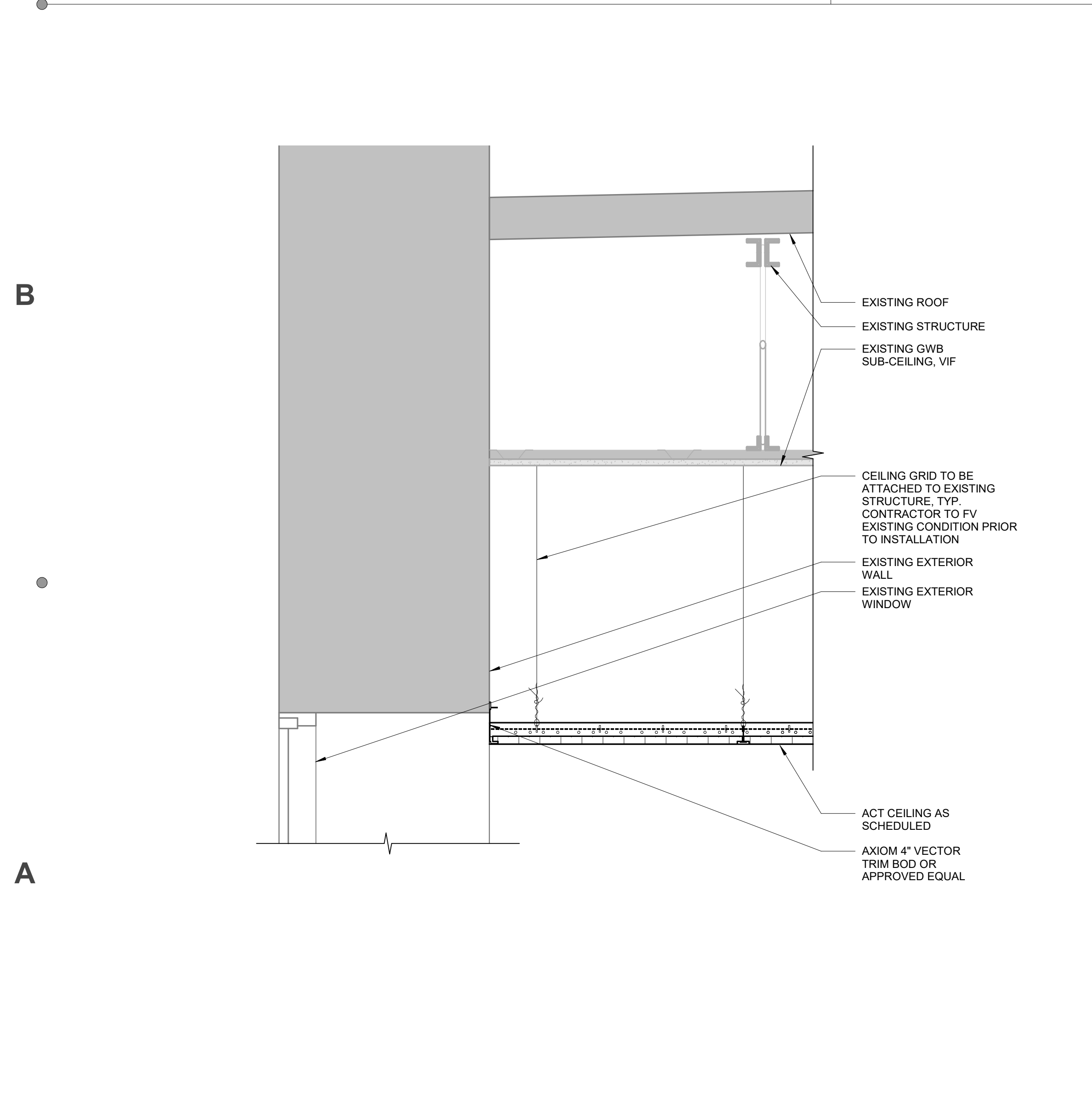
**C4** DETAIL @ LINEAR AIR DIFFUSER  
 1 1/2" = 1'-0"



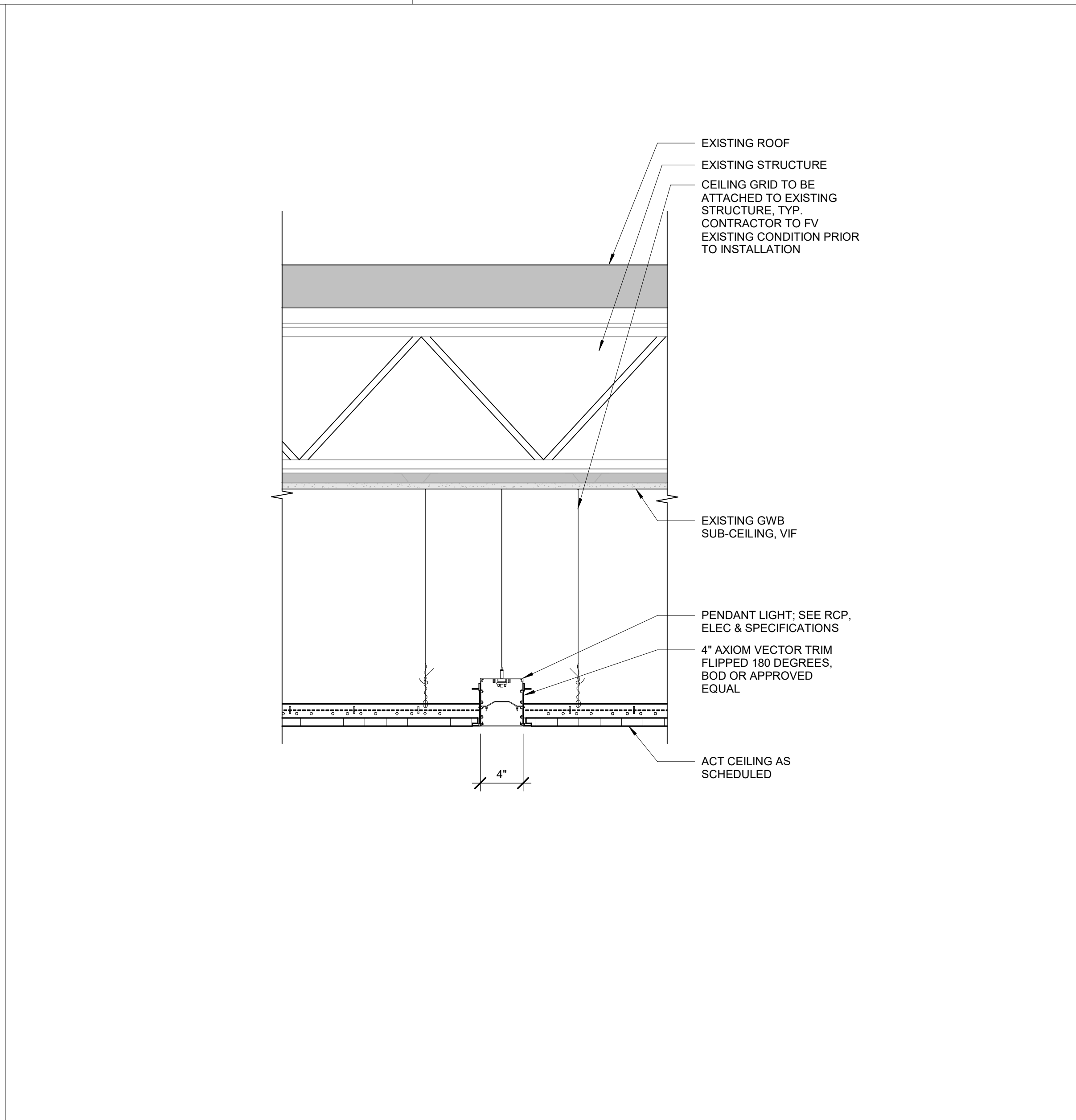
**C3** LIGHT FIXTURE/SOFFIT SECTION DETAIL  
 1 1/2" = 1'-0"



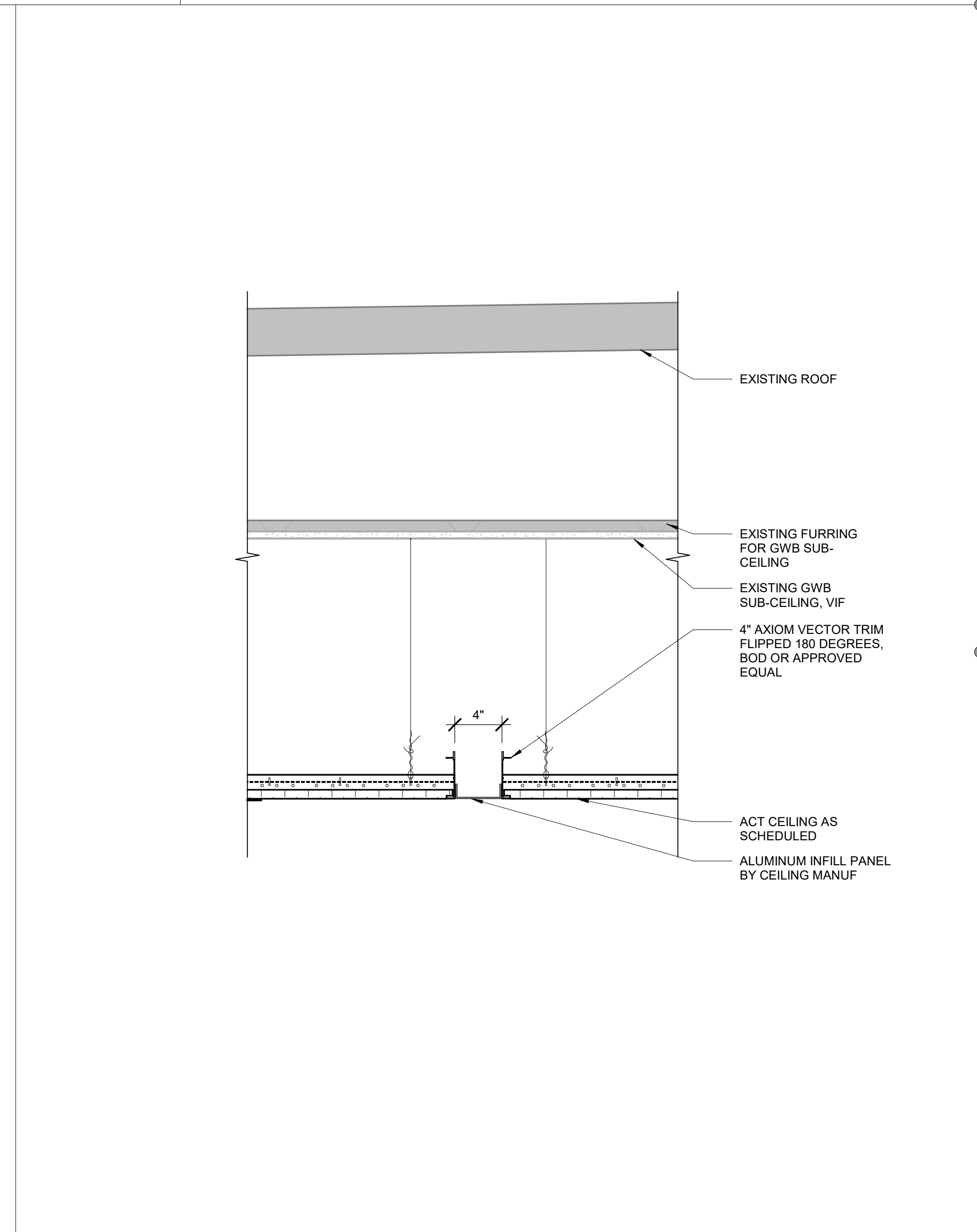
**C2** LIGHT FIXTURE/ SOFFIT PLAN DETAIL  
 1 1/2" = 1'-0"



**A5** CEILING DETAIL AT ROOM 204  
 1 1/2" = 1'-0"



**A4** SECTION AT PENDANT LIGHTS  
 1 1/2" = 1'-0"



**A2** CEILING TRIM DETAIL  
 1 1/2" = 1'-0"

5

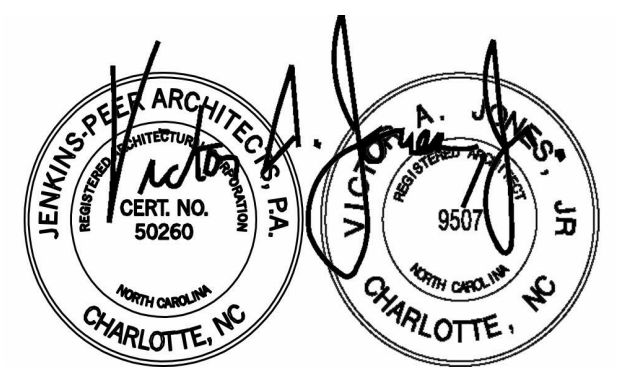
4

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1





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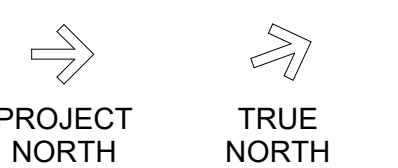
**UNC PEMBROKE  
 AMERICAN INDIAN  
 HERITAGE  
 CENTER**

SCO ID#: 21-23067-01A

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**INTERIOR  
 DETAILS**



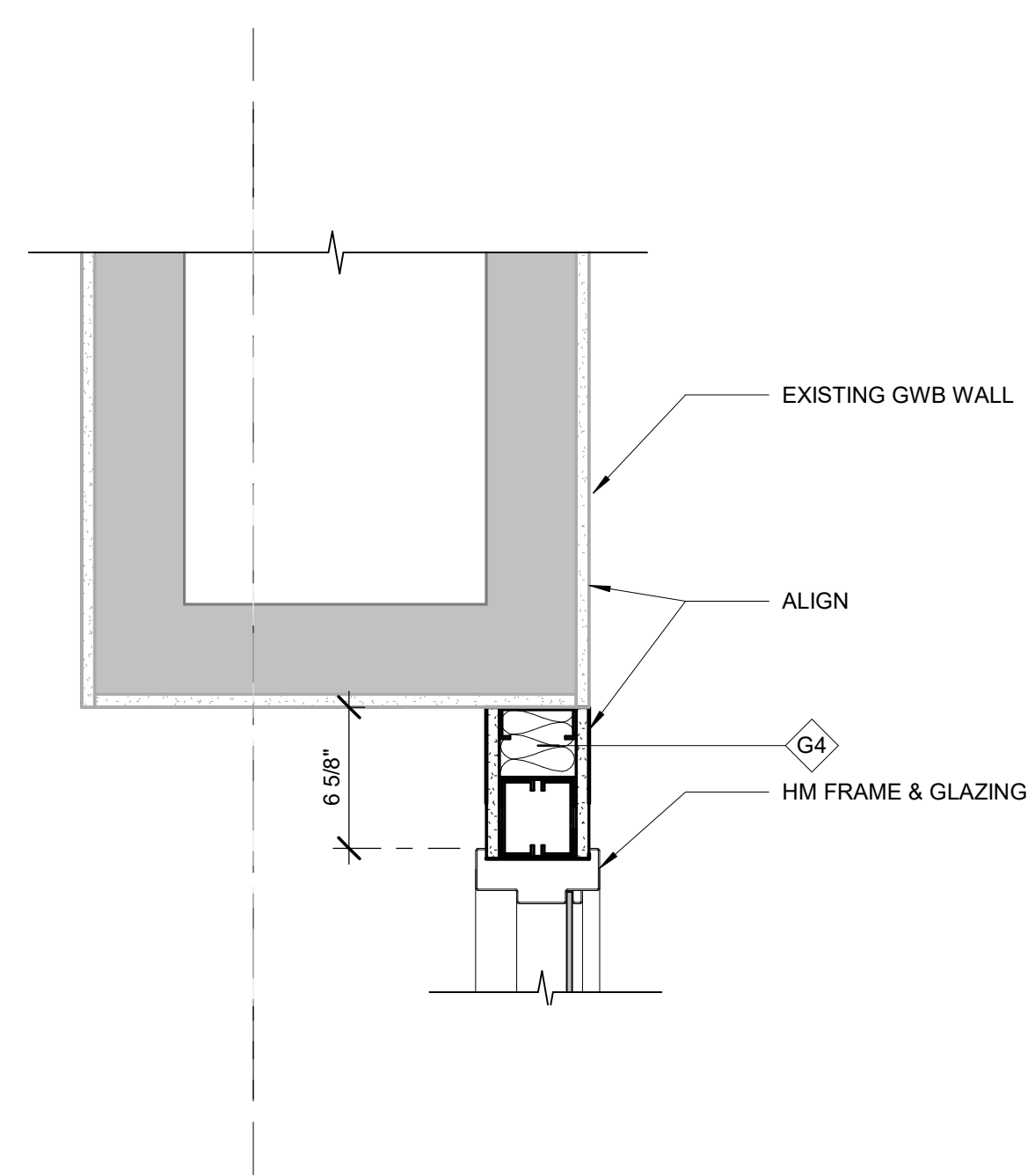
**BID DOCUMENTS**

D

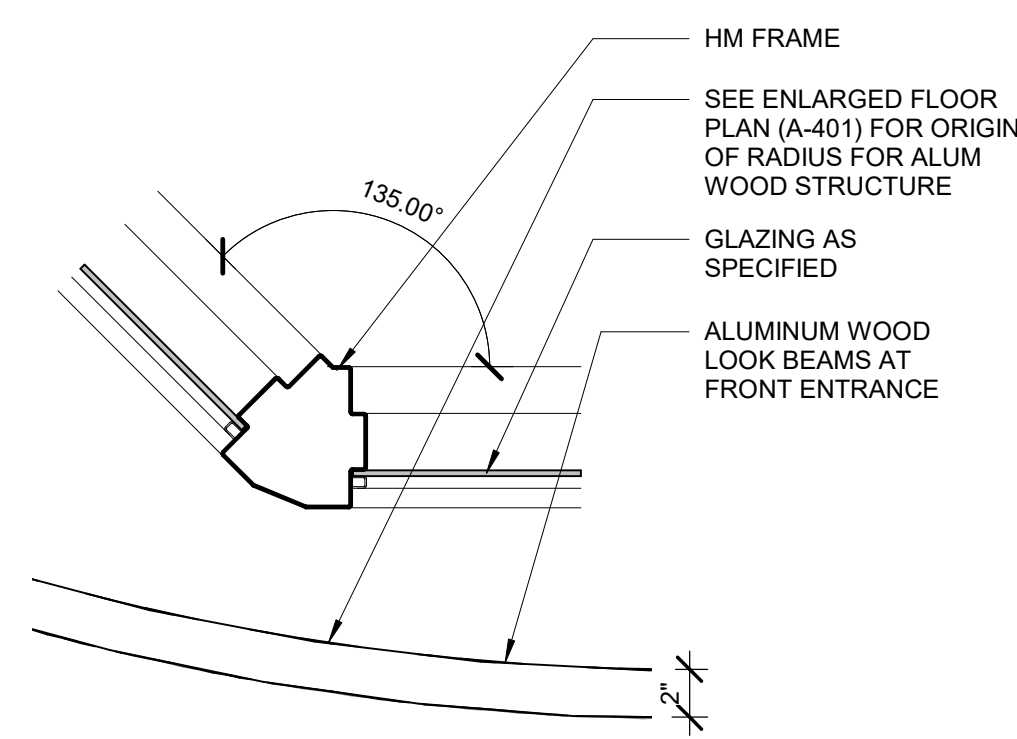
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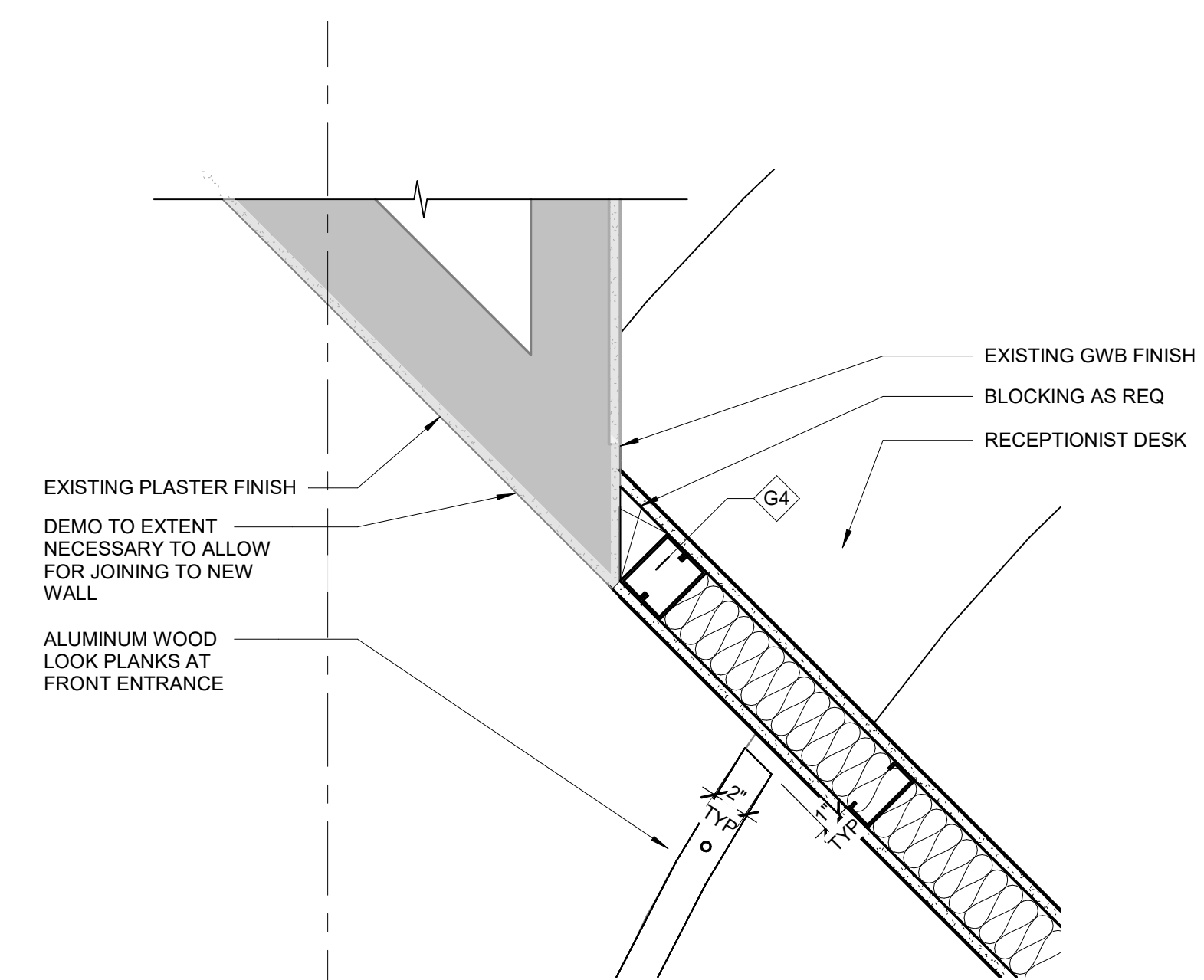
**B5 HM FRAME @ EXISTING WALL**  
 1/12" = 1'-0"



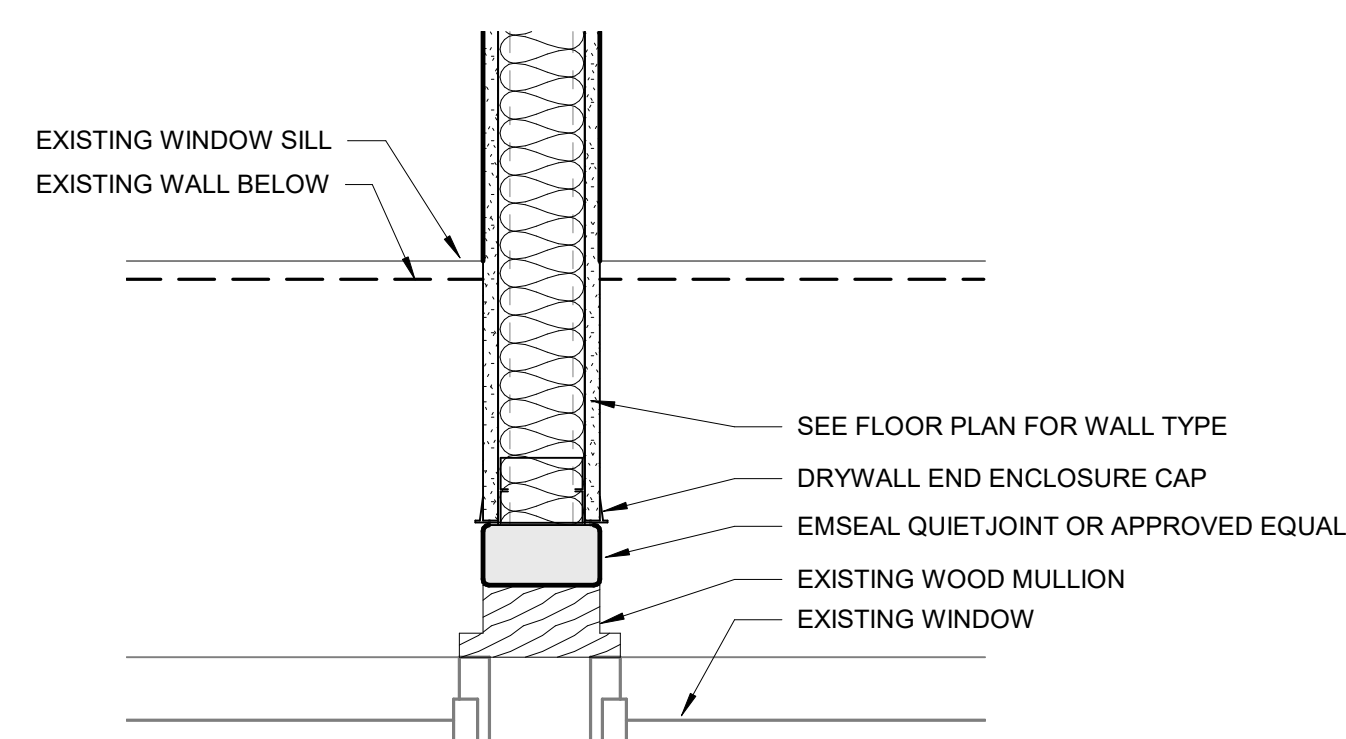
**B4 ENTRY DETAIL AT HM FRAME ANGLE**  
 1/12" = 1'-0"



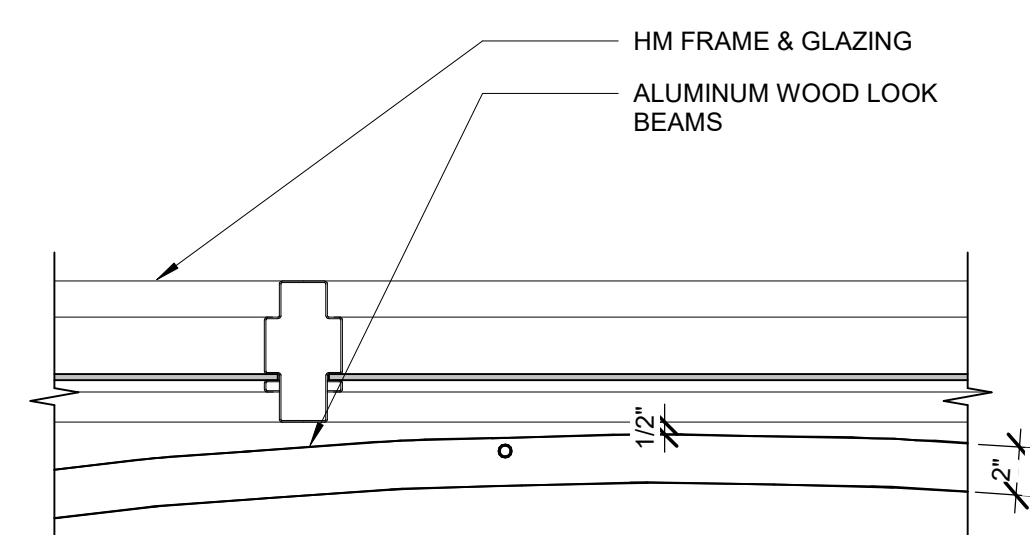
**B2 PLAN DETAIL AT RECEPTION DESK**  
 1/12" = 1'-0"



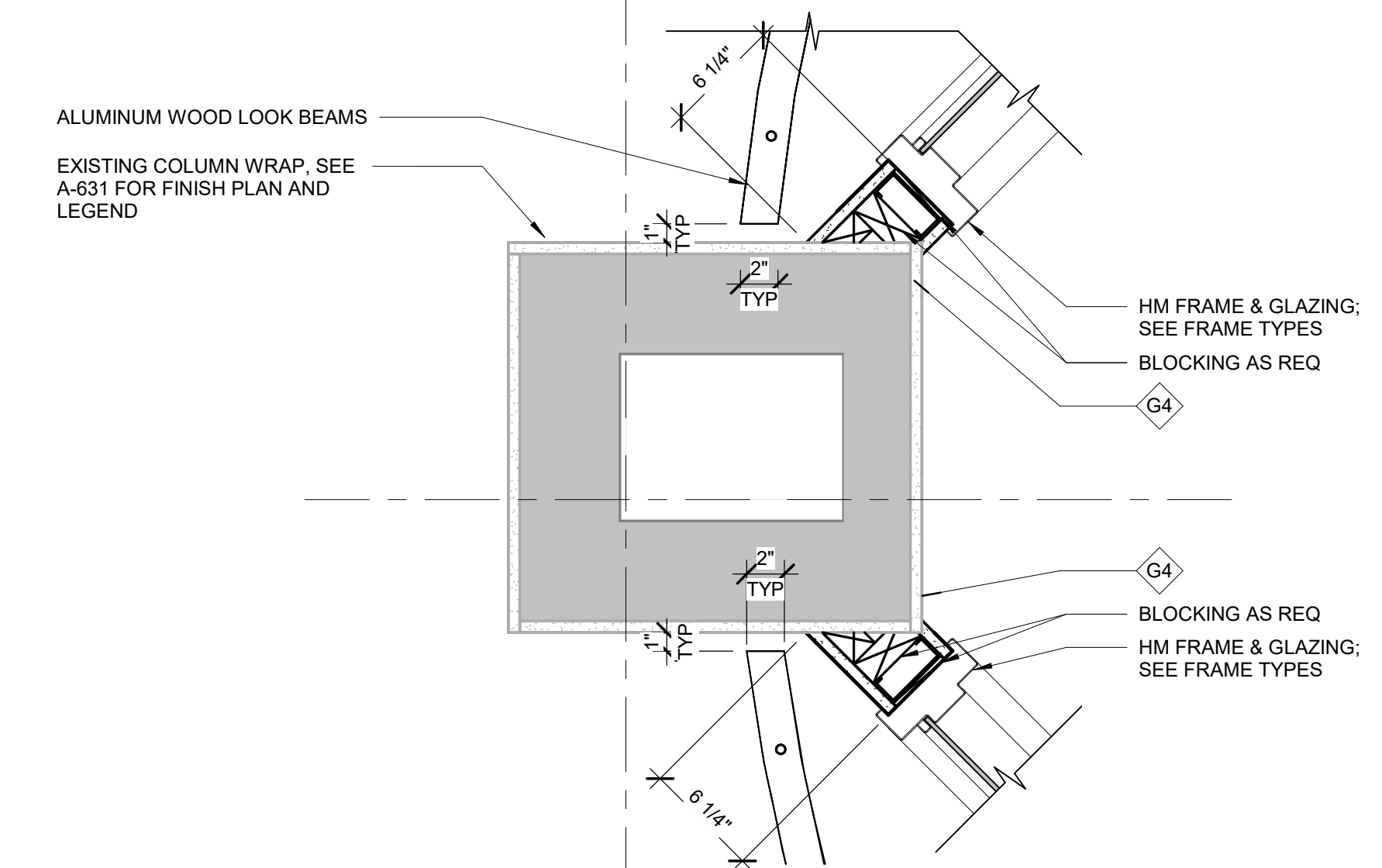
**A5 WALL AT WINDOW**  
 1/12" = 1'-0"



**A4 HM FRAME AT CURVED WOOD**  
 1/12" = 1'-0"



**A2 PLAN DETAIL AT ENTRY COLUMN**  
 1/12" = 1'-0"



5

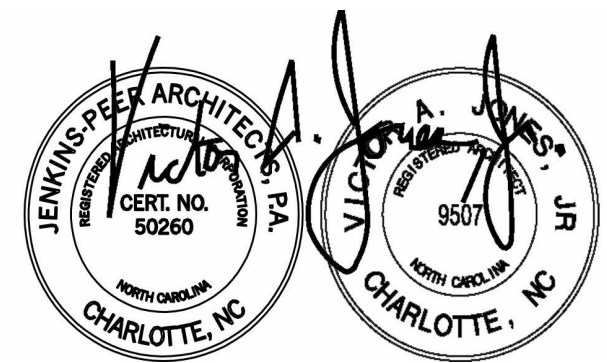
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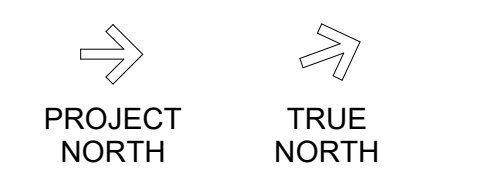


**UNC PEMBROKE**  
**AMERICAN INDIAN**  
**HERITAGE**  
**CENTER**  
 SCO ID#: 21-23067-01A

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**MILLWORK ELEVATIONS & DETAILS**



**BID DOCUMENTS**

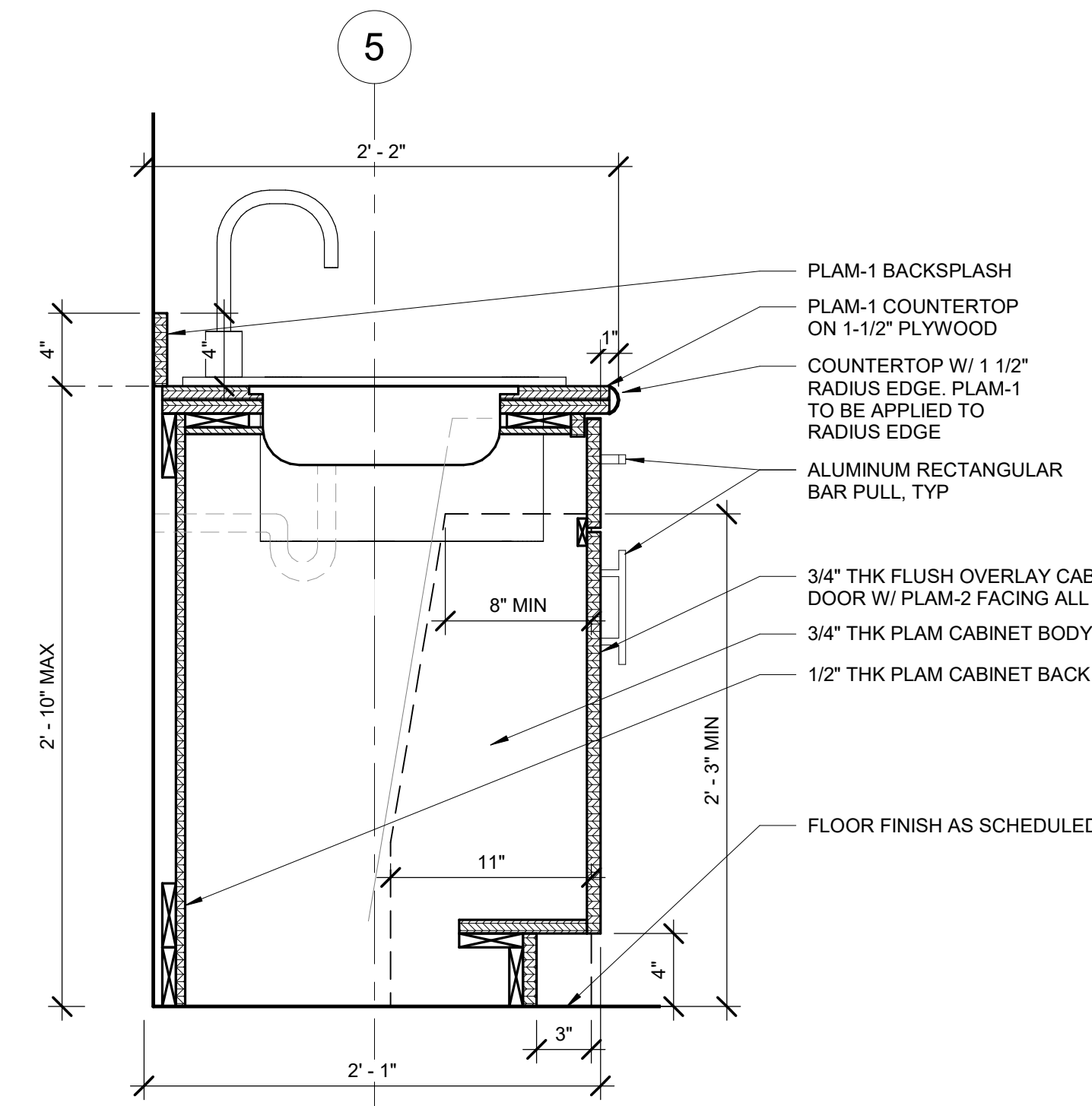
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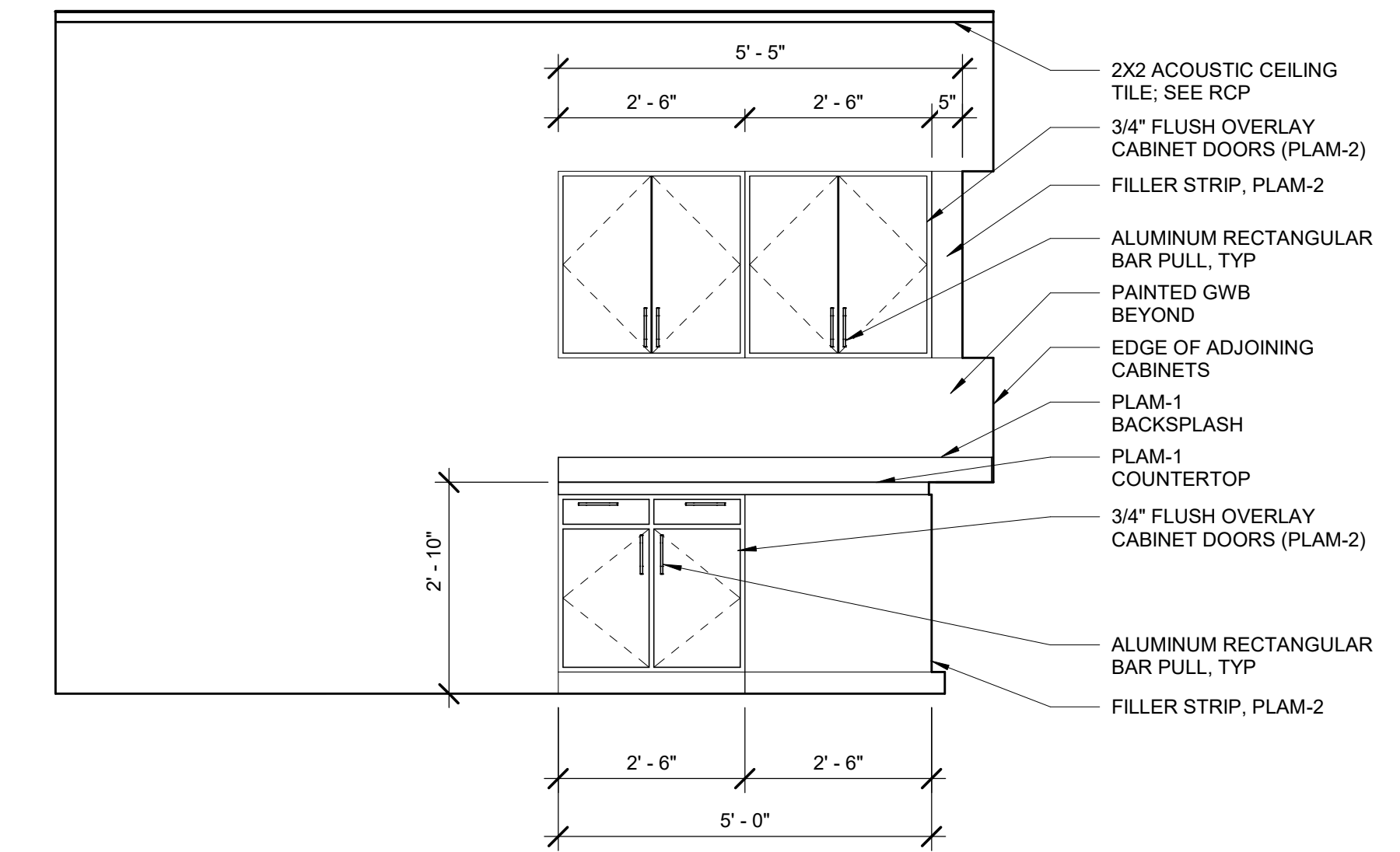
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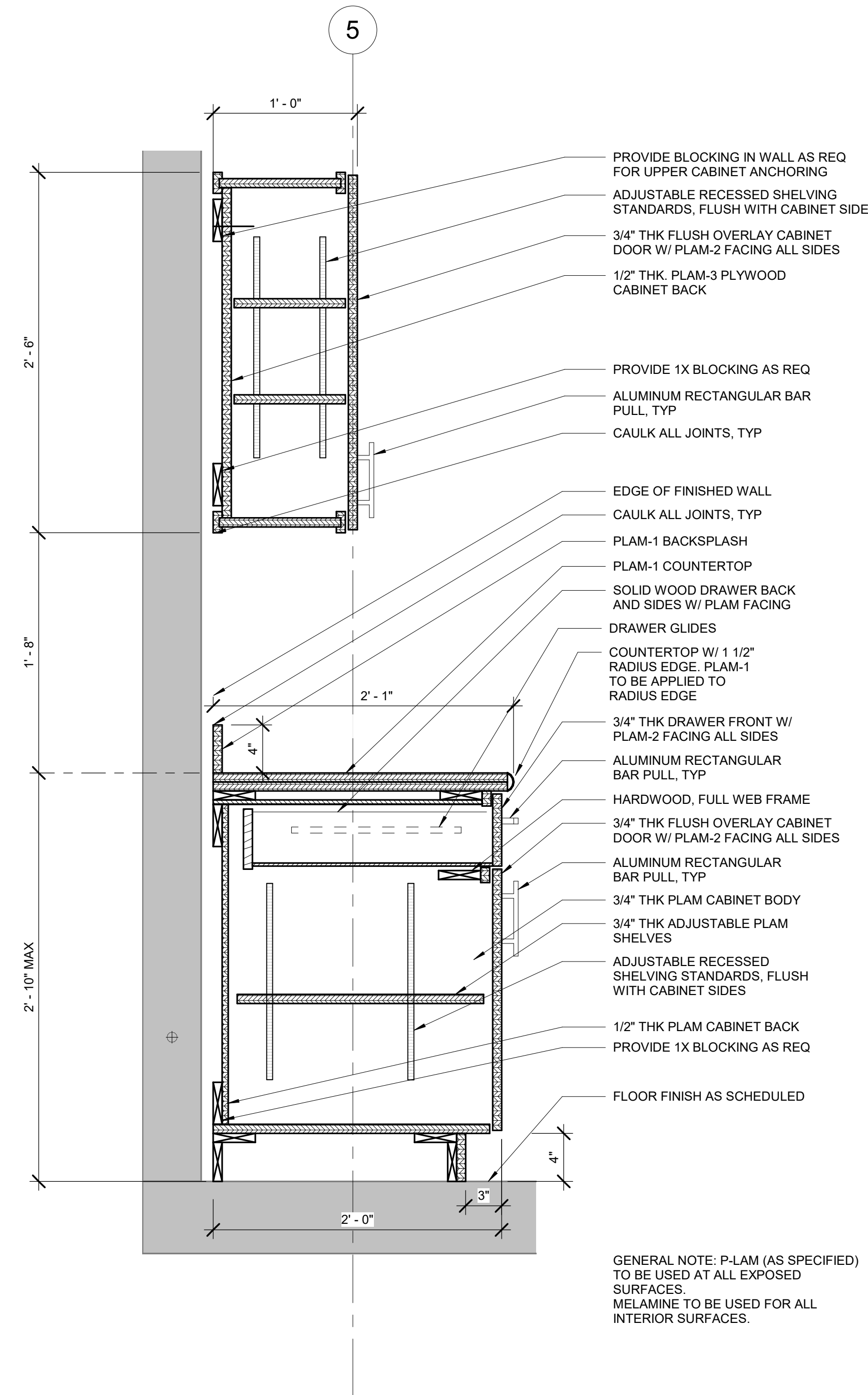
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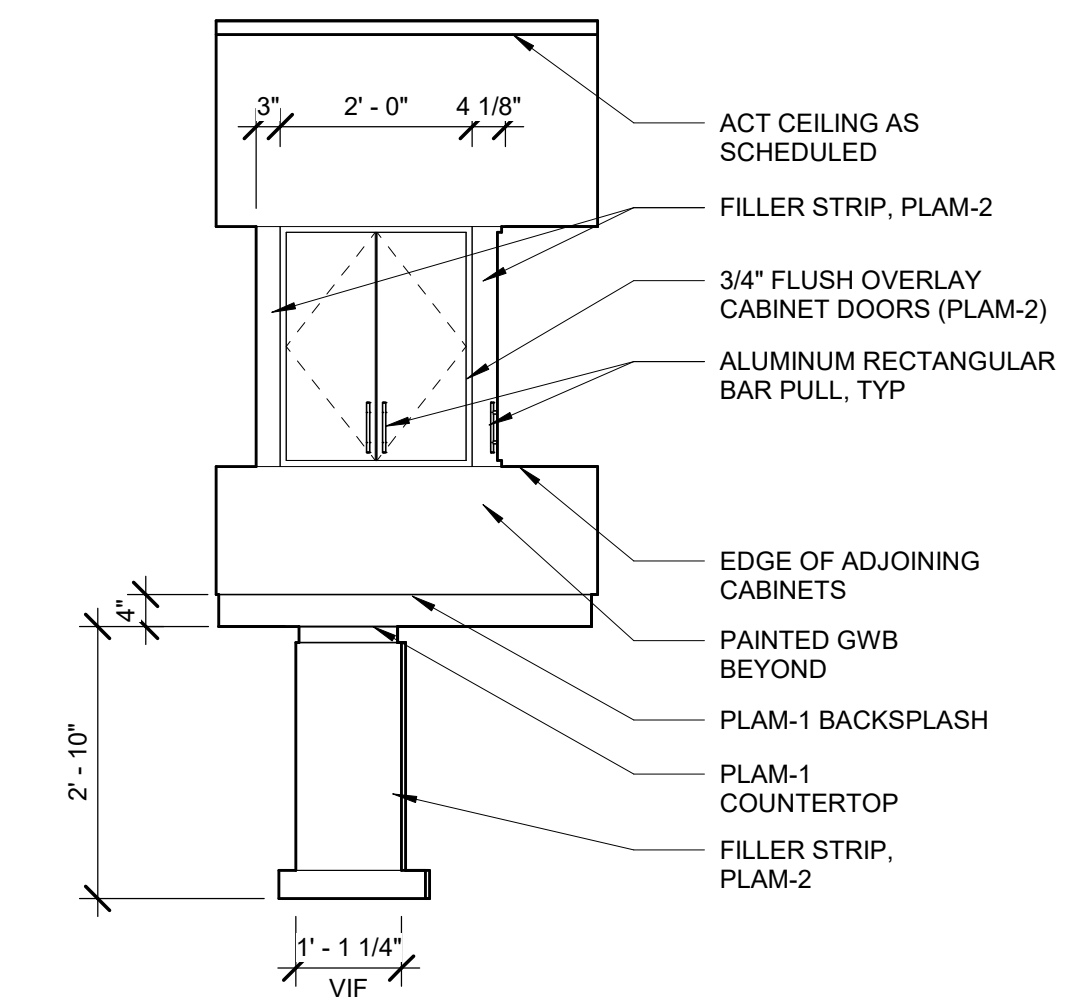
**C4 TYPICAL SINK DETAIL**  
 1/2" = 1'-0"



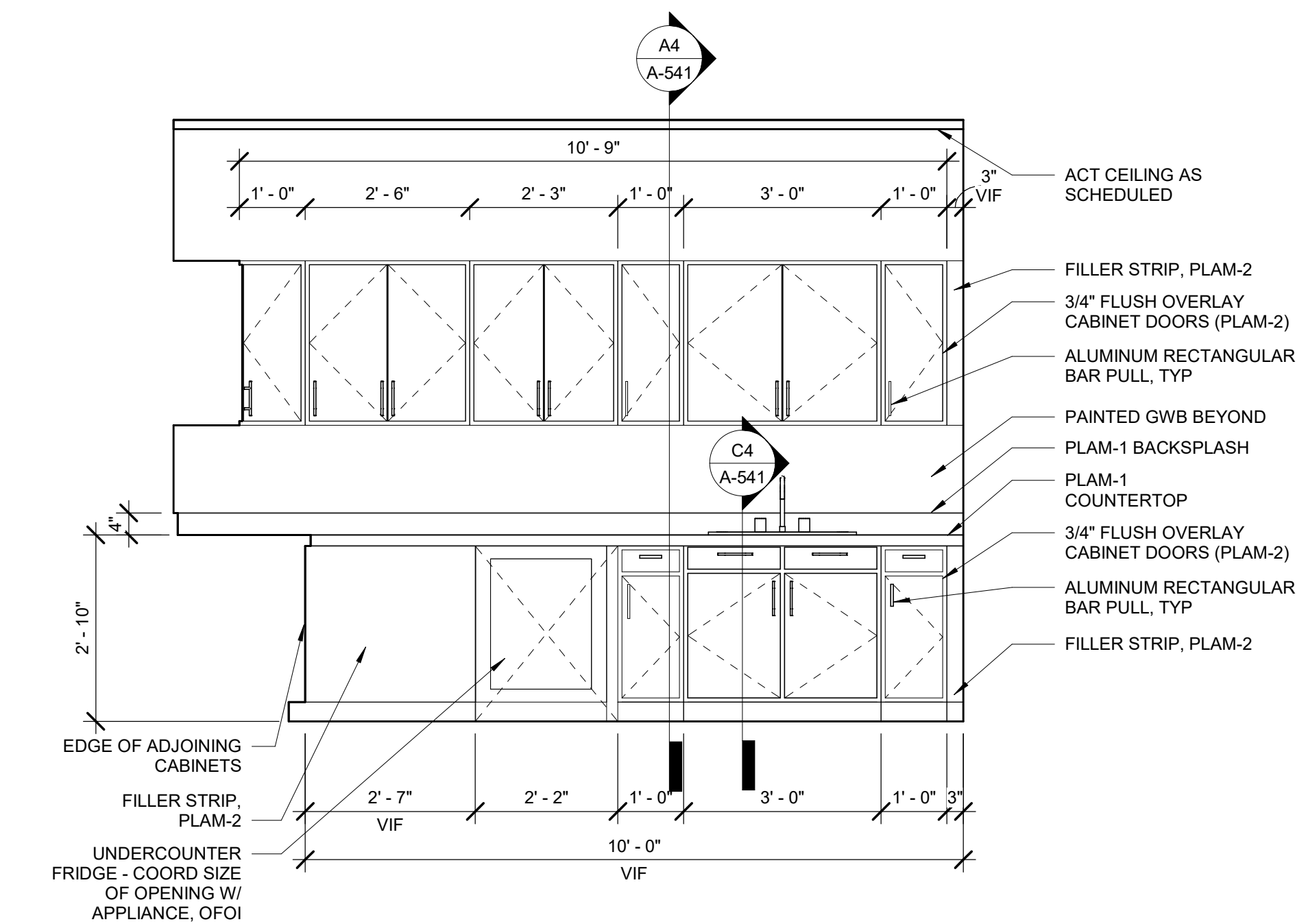
**C2 MILLWORK ELEVATION - LEFT**  
 1/2" = 1'-0"



**A4 TYP CABINET SECTION**  
 1/2" = 1'-0"



**B2 MILLWORK ELEVATION - REAR**  
 1/2" = 1'-0"



**A2 MILLWORK ELEVATION - RIGHT**  
 1/2" = 1'-0"

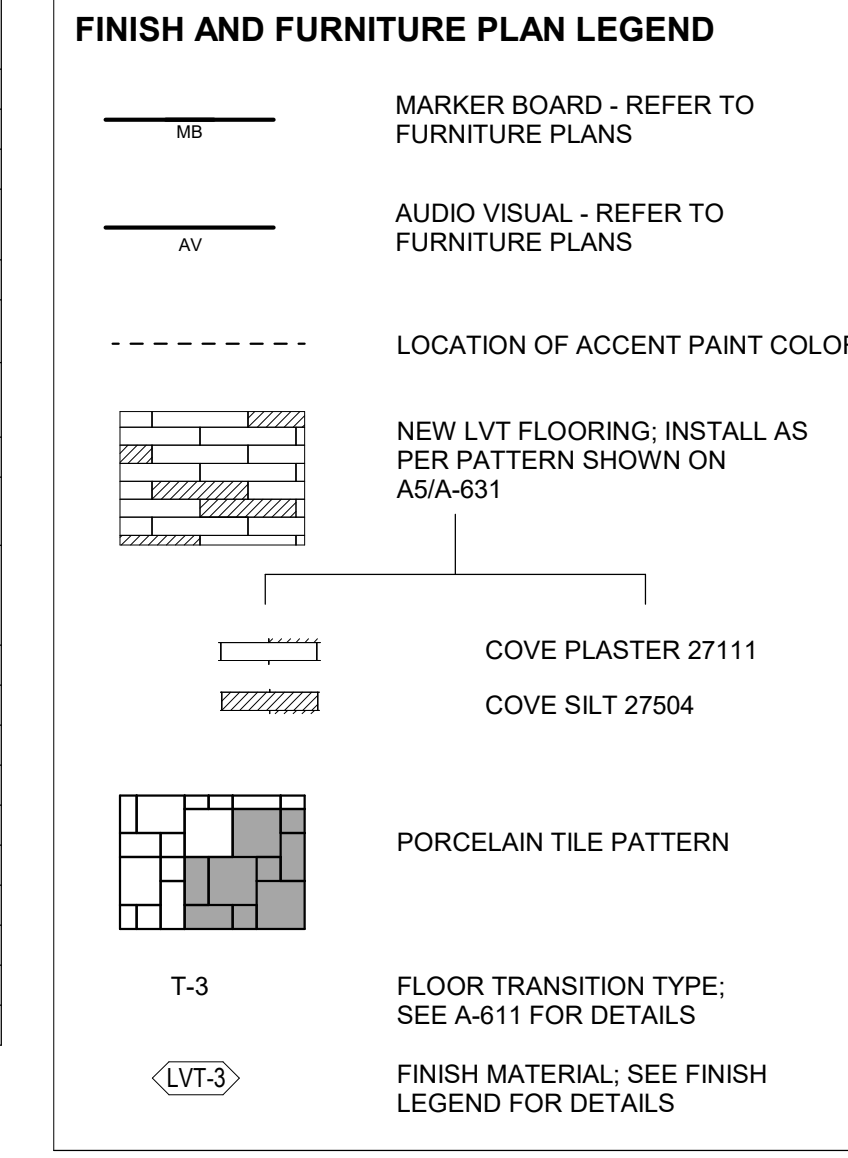






FINISH SCHEDULE									
Number	Name	Base Finish	Floor Finish	Wall Finish E	Wall Finish W	Wall Finish N	Wall Finish S	Ceiling Finish	Comments
200	LOBBY	RB-1	LVT-1/LVT-2/PT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	PNT-3 @ HM FRAMES & COLUMN, REFER TO FINISH PLAN
200A	STORAGE	RB-1	LVT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
201	AIHC LOBBY	RB-1	LVT-3/PT-1	PNT-1	PNT-2	PNT-1	PNT-1	ACT-2/GWB	PNT-3 @ EXPOSED STEEL & HM FRAMES/ PNT-4 @ GWB CEILING
202	GALLEY	RB-1	LVT-3	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
203	COMP LAB/STUDY	RB-1	CPT-1	PNT-1	PNT-2	PNT-1	PNT-1	ACT-1	
204	CONFERENCE	RB-1	CPT-1/CPT-2	PNT-1	PNT-2	PNT-1	PNT-1	ACT-1	CPT-2 LOCATIONS SHOWN ON FINISH PLANS
204A	STORAGE	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
205	OFFICE	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
206	OFFICE	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
207	OFFICE	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
240	OFFICE SUITE	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
240A	STO.	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
241	OFF.	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
242	OFF.	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
243	OFF.	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
244	STO.	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
244	COMP. LAB	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
245	OFF.	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	

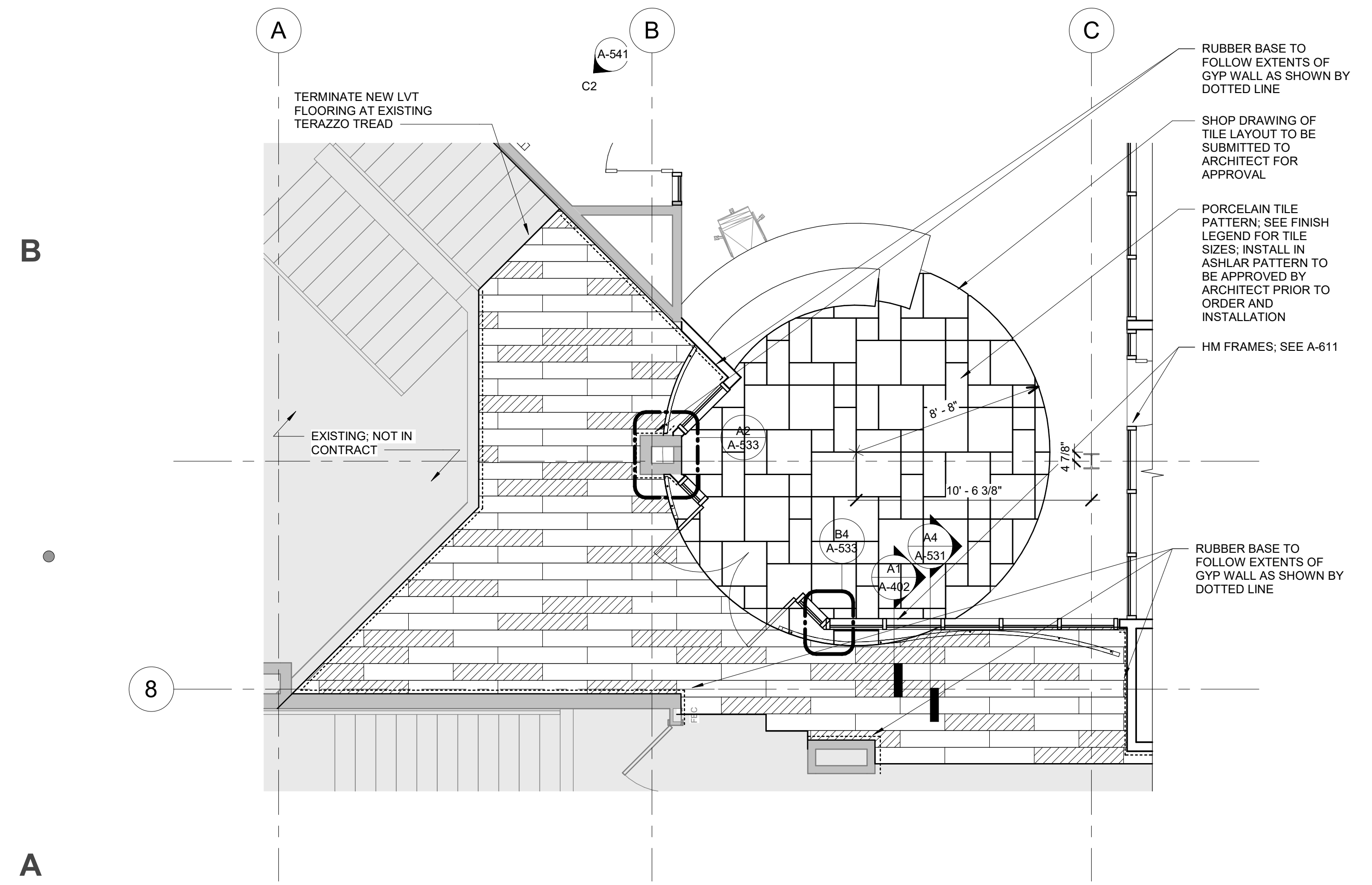
FINISH LEGEND - BASIS OF DESIGN					
ITEM	DESCRIPTION	MANUFACTURER	STYLE # / COLOR	FINISH	NOTES
PNT-1	PAINT - WALLS/PRIMARY	SHERWIN WILLIAMS	SW7046 - FIRST STAR	EGGSHELL	
PNT-2	PAINT - WALLS/ACCENT	SHERWIN WILLIAMS	SW9114 - FALLEN LEAVES	EGGSHELL	
PNT-3	PAINT - ACCENT STRUCTURE & HM FRAMES	SHERWIN WILLIAMS	SW7048 - URBANE BRONZE	EGGSHELL	PAINT ENTRY COLUMN AT WOOD FEATURE AND ALL HM STOREFRONT MULLIONS
PNT-4	PAINT - CEILING	SHERWIN WILLIAMS	SW7000 - IBIS WHITE	FLAT	
ACT-1	2x2 ACOUSTIC CEILING TILE	ARMSTRONG	ULTIMA SQUARE TEGULAR(WHITE) WITH PRELUDE ML SUPRAFINE 9/16" EXPOSED TEE (WHITE)		CAC 35 MIN
ACT-2	2x6 ACOUSTIC CEILING TILE STAGGERED	ARMSTRONG	ULTIMA SQUARE TEGULAR(WHITE) WITH PRELUDE ML SUPRAFINE 9/16" EXPOSED TEE (WHITE)		CAC 35 MIN
RB-1	RUBBER BASE	JOHNSONITE	63 BURNT UMBER B	COVED BASE	6" RUBBER BASE UNCP STANDARD - REFER TO FURNITURE PLAN FOR LOCATIONS
CPT-1	CARPET TILE	TARKETT	REVERSE 24"x24" 111478512-10-1		REFER TO FURNITURE PLAN FOR LOCATIONS; BASE BID CARPET FOR CONFERENCE ROOM EXIT PATH
CPT-2	CARPET TILE	TARKETT	TBD 24"x24" - COLOR TBD FROM STANDARD		REFER TO FURNITURE PLAN FOR LOCATIONS
LVT-1	LUXURY VINYL TILE	SHAW	COVE - PLASTER (27111) 9"x48"		REFER TO FURNITURE PLAN
LVT-2	LUXURY VINYL TILE	SHAW	COVE - SILT (27504) 9"x48"		REFER TO FURNITURE PLAN
LVT-3	LUXURY VINYL TILE	SHAW COREtec	COVER - SECURE (07068) 7"x48"		REFER TO FURNITURE PLAN FOR LOCATIONS
PT-1	PORCELAIN TILE	ESEDRA	PERGAMO 24"x24" 12"x24", 12"x12"		REFER TO FURNITURE PLAN FOR LOCATIONS
WD-1	WOOD VENEER	MADRID	BIRCH/WHITE-B-ROWPL		
PLAM-1	PLASTIC LAMINATE	NEVAMAR	TBD		
PLAM-2	PLASTIC LAMINATE	NEVAMAR	TBD		
PLAM-3	PLASTIC LAMINATE	NEVAMAR	DARK GREY		
QTZ-1	SOLID SURFACE QUARTZ	CAESARSTONE	7141 QUARTZ REFLECTIONS		RECEPTION DESK COUNTERTOP - 2CM (OR APPROVED EQUAL)
T-3	TRANSITION STRIP	SCHLUTER	SCHLUTER RENO TK TRANSITION STRIP		



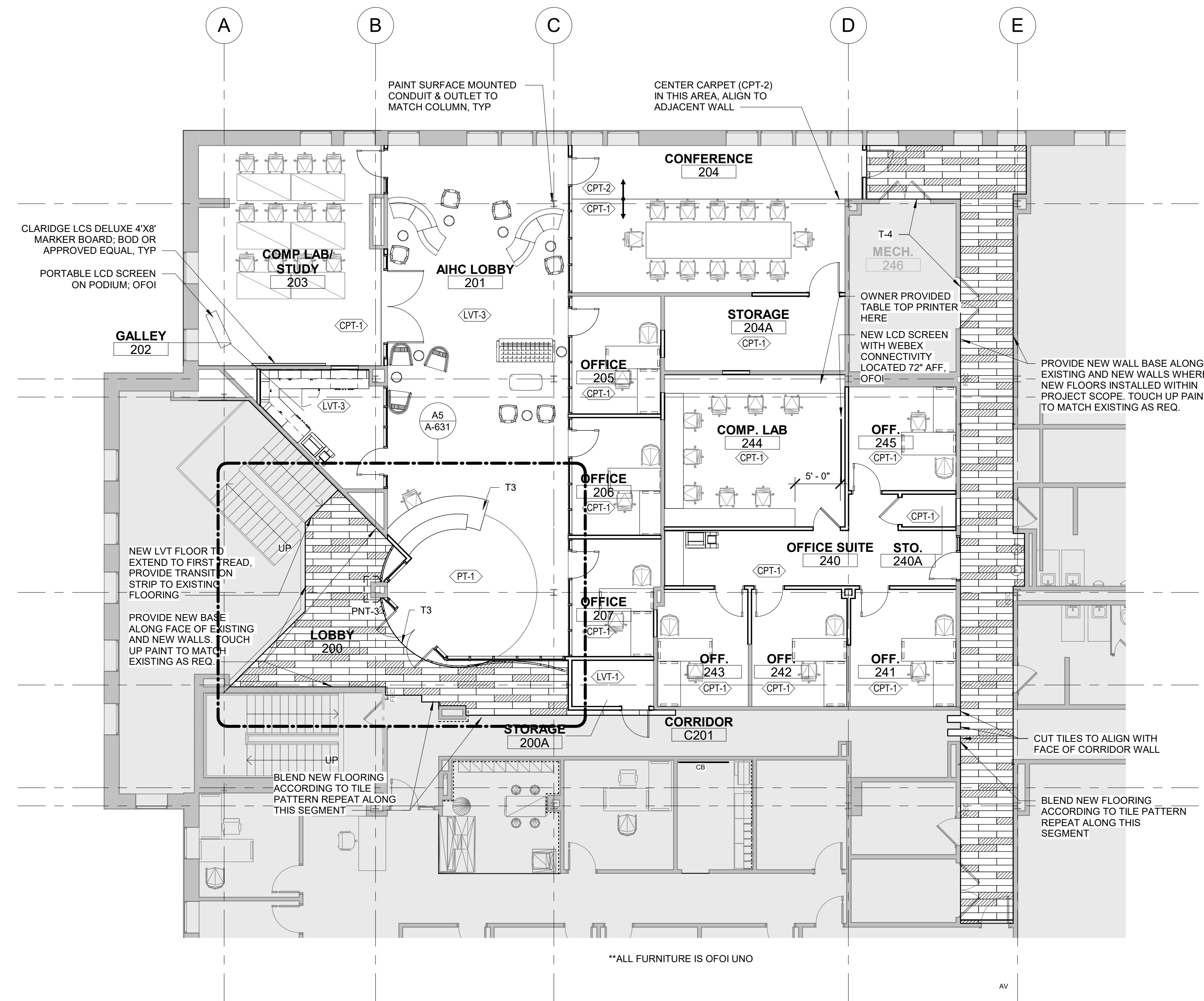
- GENERAL FINISH PLAN NOTES**
- ALL FURNITURE: OWNER FURNISHED, OWNER INSTALLED.
  - COORDINATE POWER REQUIREMENTS WITH OWNER PROVIDED FURNITURE & EQUIPMENT.
  - ANY EXPOSED CEILING ELEMENTS TO BE PAINTED BLACK.



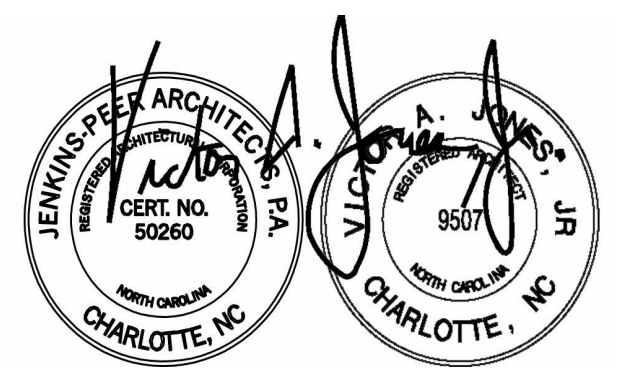
**C5** TRANSITION AT EXISTING TERRAZZO  
1/2" = 1'-0"



**A5** ENTRY ENL. FINISH PLAN  
1/4" = 1'-0"



**A3** LEVEL 2 FURNITURE PLAN  
1/8" = 1'-0"



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**FURNITURE AND FINISH PLAN, FINISH SCHEDULE & FINISH LEGEND**



**BID DOCUMENTS**

**A-631**







**DRAWING NOTES:**

- A. REFER TO DRAWING M001 FOR LEGEND, ABBREVIATIONS AND DRAWING CONVENTIONS.
- B. EXISTING CONDITIONS SHOWN ARE BASED ON LIMITED FIELD SURVEY AND EXISTING DOCUMENTATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS, INDICATED OR OTHERWISE.
- C. REMOVE ALL ABANDONED HANGERS, STRAPS AND EQUIPMENT SUPPORTS IN AREA OF WORK, INCLUDING ITEMS REMAINING FROM PREVIOUS RENOVATIONS.
- D. COORDINATE ALL DEMOLITION WORK WITH NEW WORK CONSTRUCTION.
- E. UNLESS OTHERWISE NOTED, DUCTWORK AND PIPING SHOWN IS CONCEALED ABOVE CEILING.
- F. WHERE EXISTING DUCTWORK IS DISCONNECTED OR CUT FOR DEMOLITION, AND A NEW DUCT WILL NOT BE INSTALLED TO OCCUPY THE ENTIRE OPENING IN THE SURFACE OF THE EXISTING DUCT TO REMAIN, PATCH EXISTING DUCT WITH MATERIALS TO MATCH EXISTING DUCTWORK, AND SEAL AIR TIGHT AGAINST A STATIC PRESSURE OF 2 INCHES W.G. POSITIVE/NEGATIVE AS APPLICABLE FOR LOW PRESSURE DUCT, AND 6 INCHES W.G. POSITIVE/NEGATIVE AS APPLICABLE FOR MEDIUM PRESSURE DUCTWORK.

**SPECIAL NOTES:**

- 1 REMOVE EXISTING BRANCH PIPING TO EXISTING AIR TERMINAL UNITS SHOWN TO BE REMOVED
- 2 REMOVE EXISTING PIPING AND PIPE FITTINGS TO VERTICAL RISER.



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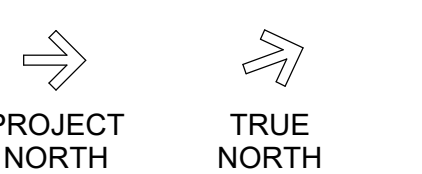
Drawn By: CJS

Checked By: SAG

Date: 1/10/2022

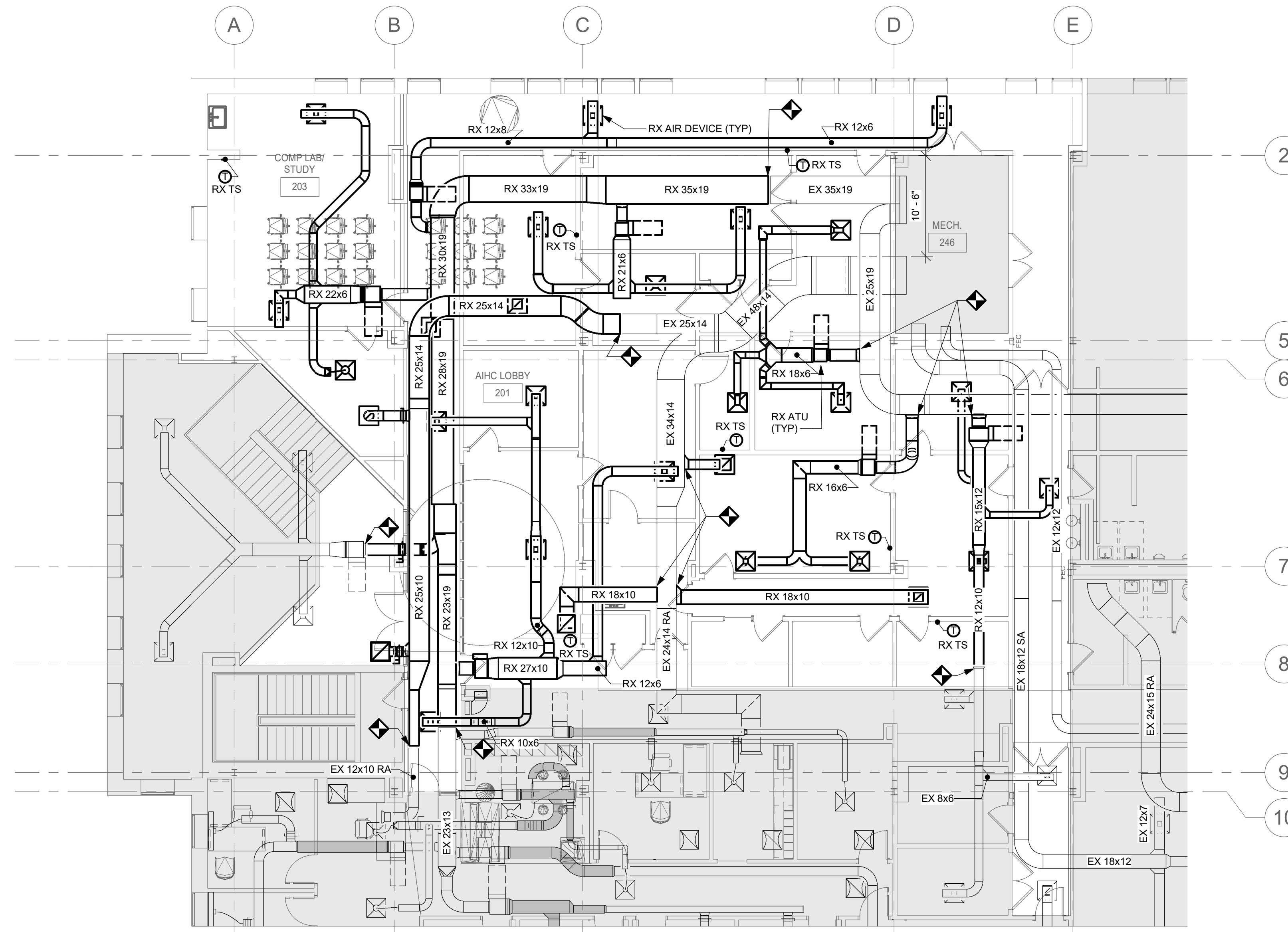
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**FLOOR PLANS -  
MECHANICAL -  
DEMOLITION**

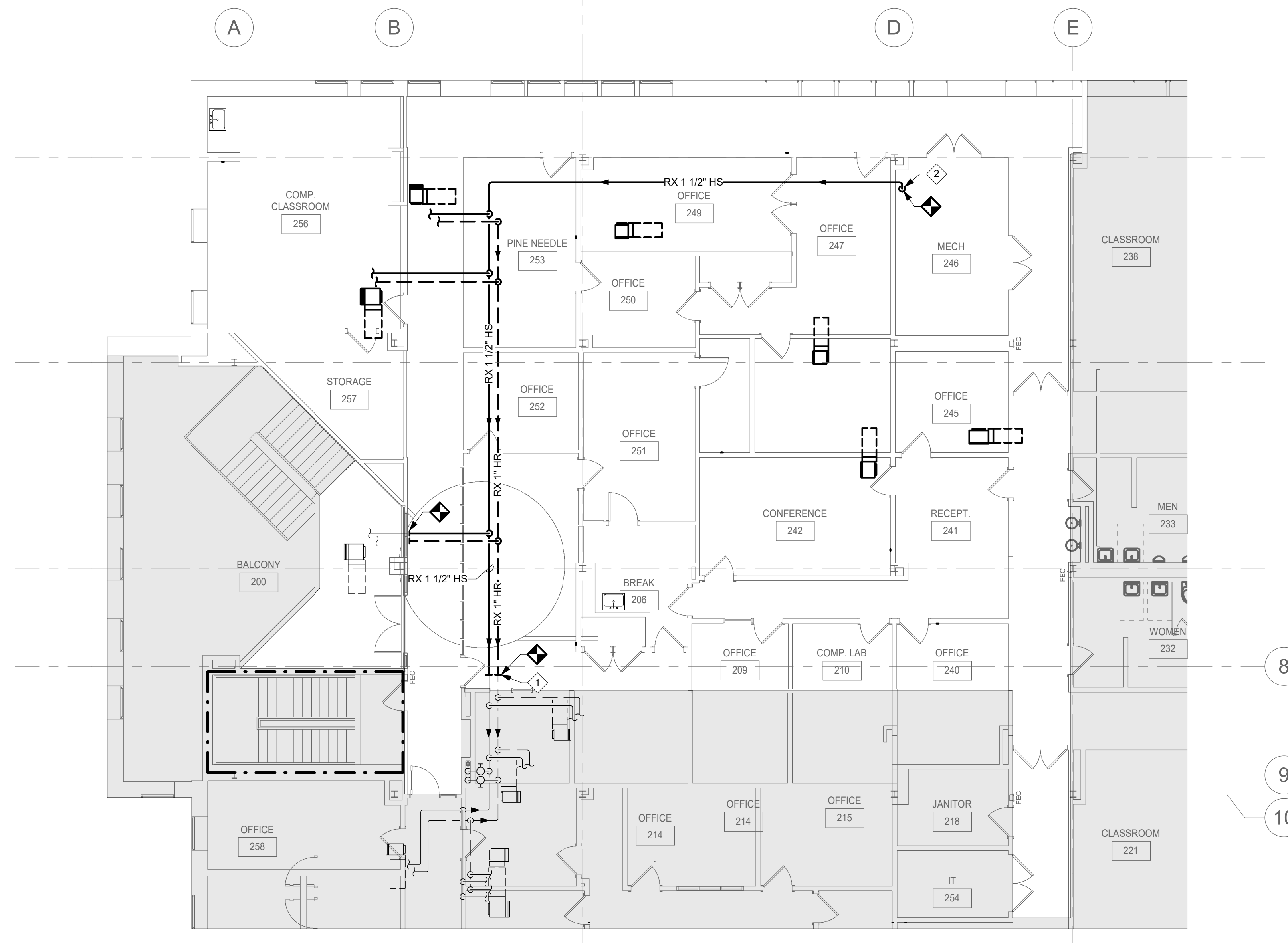


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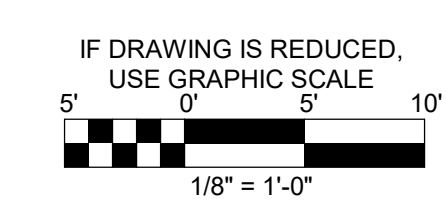
**MD101**



1 LEVEL 2 - FLOOR PLAN - DUCTWORK - DEMOLITION  
MD101 1/8" = 1'-0"



2 LEVEL 2 - FLOOR PLAN - PIPING - DEMOLITION  
MD101 1/8" = 1'-0"















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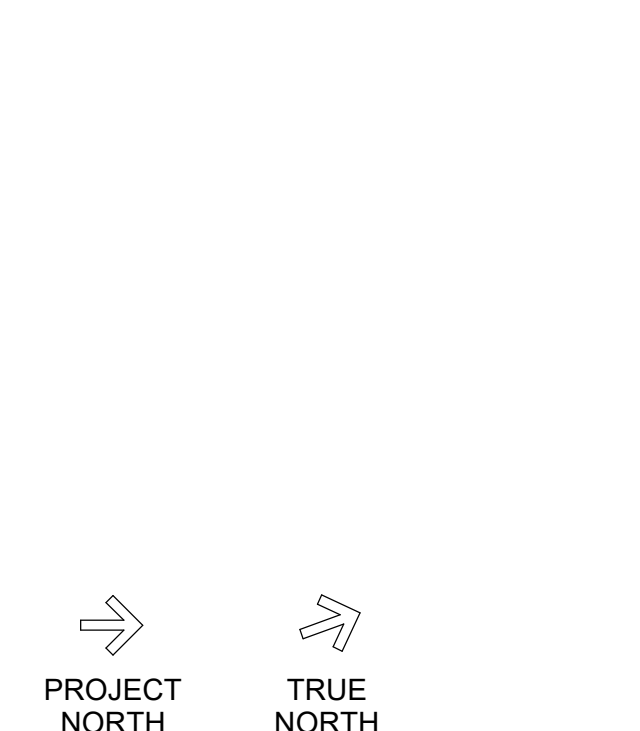
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**MECHANICAL  
SPECIFICATIONS**



**BID DOCUMENTS**

**M701**

**D**

**MECHANICAL**

1. **GENERAL:**  
A. REFER TO DIVISION 1 SPECIFICATIONS ON DRAWING G102 FOR GENERAL CONDITIONS.  
B. THOROUGHLY EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO COMMENCEMENT OF ANY WORK. EXAMINE DRAWINGS IN THE COMPLETE CONSTRUCTION SET OF DRAWINGS (REGARDLESS OF TRADE), AND COORDINATE MECHANICAL WITH ALL OTHER TRADES.  
C. CONTRACTOR SHALL THOROUGHLY EXAMINE PREMISES AND OBSERVE ALL CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED. NO ALLOWANCES WILL BE MADE FOR ERRORS OR NEGLIGENCE IN THIS RESPECT.  
D. COORDINATE ALL WORK WITH OWNER'S OPERATION SCHEDULE IN ORDER NOT TO DISRUPT OR DELAY SUCH OPERATIONS. WORK SHALL BE COORDINATED AND SCHEDULED IN ADVANCE AND APPROVED BY THE OWNER. REFORM ALL WORK ONLY AFTER SECURING APPROVAL FROM THE OWNER TO COMMENCE.  
E. AREAS ADJACENT TO THE CONSTRUCTION SITE WILL REMAIN OCCUPIED. CONTRACTOR SHALL MAINTAIN ALL SERVICES (AIR SYSTEMS, SERVICE PIPING, ELECTRICAL, ETC.) TO THESE AREAS AS INDICATED, AS REQUIRED AND AS DIRECTED BY THE OWNER IN THE FIELD.  
F. VERIFY ALL EXISTING UTILITIES AND SERVICES AND THEIR POINTS OF CONNECTION BEFORE STARTING NEW WORK.  
G. ALL MATERIAL SHALL BE NEW (UNLESS NOTED OTHERWISE ON THE DRAWINGS) AND SHALL BE OF FIRST QUALITY. THE QUALITY OF WORKMANSHIP SHALL BE THE FINEST AND HIGHEST OBTAINABLE IN EACH PARTICULAR TRADE. WORKMANSHIP SHALL BE ACCEPTABLE TO THE OWNER AND HIS DECISION AS TO ACCEPTABLE QUALITY IS FINAL; UNACCEPTABLE WORK SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.  
H. ONLY MATERIALS AND EQUIPMENT NAMED ON THE DRAWINGS AND IN THIS SPECIFICATION SHALL BE USED. SUBSTITUTIONS WILL NOT BE ACCEPTABLE UNLESS DETERMINED TO BE IN THE BEST INTEREST OF THE OWNER AND ARE SUBJECT TO THE OWNER'S REVIEW AND ACCEPTANCE.  
I. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. DO NOT SCALE THE DRAWINGS.  
J. DUE TO THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, RISERS AND DROPS. FITTINGS, AND ACCESSORIES AS MAY BE REQUIRED. CAREFULLY INVESTIGATE CONDITIONS AFFECTING THE WORK, AND ARRANGE SUCH WORK ACCORDINGLY, PROVIDING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.  
K. STORE AND PROTECT ALL MATERIALS ON SITE AT LOCATIONS DESIGNATED BY THE OWNER.  
L. PROVIDE ALL LABOR AND MATERIALS AS REQUIRED BY THE OWNER TO PROTECT EXISTING WORK AND FINISHES FROM DAMAGE WHICH COULD OCCUR AS A RESULT OF CONTRACTOR'S OPERATIONS.  
M. CONTAINERS HOLDING ANY TYPE OF MATERIAL USED ON CONSTRUCTION SITES SHALL BE PERMANENTLY MARKED WITH THE CONTRACTOR'S NAME. CONTAINERS INCLUDE, BUT ARE NOT LIMITED TO: BOXES, BUCKETS, CYLINDERS, PAILS, SPRAY CANS, JUGS, ROLLS, BAGS, DRUMS, TUBES, ETC. ALL CONTAINERS MUST BE REMOVED FROM THE SITE AT THE CONCLUSION OF THE RENOVATION OR CONSTRUCTION PROJECT.
2. **COORDINATION DRAWINGS:**  
A. PROVIDE COORDINATION DRAWINGS DETAILING THE WORK IN THE ENTIRE AREA OF WORK.  
B. BUILDING INFORMATION MODELING (BIM): SCREEN CAPTURES FROM BIM SOFTWARE IN ADDITION TO THE ELECTRONIC FILE OF REVIT OR NAVISWORKS MODEL, ARE ACCEPTABLE.  
C. DETAIL MAJOR ELEMENTS, COMPONENTS, AND SYSTEMS OF MECHANICAL EQUIPMENT AND MATERIALS IN RELATIONSHIP WITH OTHER SYSTEMS, INSTALLATIONS, AND BUILDING COMPONENTS (I.E. ELECTRICAL, PLUMBING, SPRINKLER, STRUCTURAL, AND ARCHITECTURAL WORK). SHOW SPACE REQUIREMENTS FOR INSTALLATION AND ACCESS. INDICATE IF SEQUENCE AND COORDINATION OF INSTALLATIONS ARE IMPORTANT TO EFFICIENT FLOW OF THE WORK. INCLUDE THE FOLLOWING:  
(1) PLANNED DUCTWORK AND PIPING LAYOUT, INCLUDING DAMPER, VALVE AND SPECIALTY LOCATIONS AND VALVE-STEM MOVEMENT.  
(2) CLEARANCES FOR INSTALLING AND MAINTAINING INSULATION.  
(3) CLEARANCES FOR SERVICING AND MAINTAINING EQUIPMENT, ACCESSORIES, AND SPECIALTIES, INCLUDING ANY DISASSEMBLY REQUIRED FOR PERIODIC MAINTENANCE.  
(4) EQUIPMENT AND ACCESSORY SERVICE CONNECTIONS AND SUPPORT DETAILS.  
(5) REFLECTED CEILING PLANS.  
(6) CEILING SUSPENSION ASSEMBLY MEMBERS.  
(7) OTHER SYSTEMS INSTALLED IN SAME SPACE AS DUCTS.  
(8) CEILING- AND WALL-MOUNTING ACCESS DOORS AND PANELS REQUIRED TO PROVIDE ACCESS TO DAMPERS AND OTHER OPERATING DEVICES.  
(9) CEILING-MOUNTING ITEMS, INCLUDING LIGHTING FIXTURES, DIFFUSERS, GRILLES, SPEAKERS, SPRINKLERS, ACCESS PANELS, AND SPECIAL MOLDFINGS.  
(10) REFER TO ARCHITECTURAL CEILING PLANS FOR ADDITIONAL REQUIREMENTS.
3. **ALTERATIONS AND REMOVAL:**  
A. SCHEDULE AND PERFORM DEMOLITION WORK AS REQUIRED TO KEEP EXISTING BUILDING SERVICES AND SYSTEMS IN OPERATION AND TO MINIMIZE DISRUPTION TO OCCUPANTS. WHEN SHUTDOWN OF SYSTEM OR SERVICE IS REQUIRED PERFORM AS HEREIN SPECIFIED UNDER "INTERRUPTION OF UTILITIES."  
B. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE BAS OR FIRE SYSTEM WIRING UNPROTECTED BY CONDUITS. ANY INCIDENCES OF THIS SORT MUST BE IMMEDIATELY REPORTED TO THE OWNER. REPAIR AND/OR REPLACEMENT WILL BE AT CONTRACTOR'S EXPENSE.  
C. REMOVE WORK BY HAND AS FAR AS POSSIBLE. POWER DRIVEN EQUIPMENT, WHEN REQUIRED, SHALL BE USED SUBJECT TO THE APPROVAL OF THE OWNER.  
D. CAP, SEAL, OR PLUG ALL ABANDONED WORK. REMOVE TO THE EXTENT REQUIRED TO ALLOW CONCEALMENT BEHIND NEW FINISH MATERIALS.  
E. WHERE EQUIPMENT OR FIXTURES ARE INDICATED TO BE REMOVED, REMOVE ALL RELATED SUPPORTS, HANGERS, PIPING, WIRING, DUCTS, CONTROLS, INSULATION, ETC., UNLESS NOTED OTHERWISE.  
F. EXISTING MECHANICAL EQUIPMENT, PIPING AND DUCTWORK, ETC., AFFECTED BY REMOVAL OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE OWNER'S SATISFACTION.  
G. EXISTING CONDITIONS INDICATED (I.E., DUCTWORK, PIPING, EQUIPMENT, ETC.), WERE OBTAINED FROM AVAILABLE RECORD DRAWINGS AND LIMITED FIELD SURVEY AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL DUCTWORK, PIPING, ETC., IN THE FIELD PRIOR TO STARTING OR FABRICATING NEW WORK.  
H. SHOULD THE CONTRACTOR ENCOUNTER ANY EXISTING DUCTWORK, PIPING, CONDUITS OR OTHER OBSTRUCTIONS WHICH INTERFERES WITH THE NEW WORK, HE SHALL REMOVE, REARRANGE OR RELOCATE SAME AS REQUIRED TO THE SATISFACTION OF THE OWNER, OR HE SHALL REARRANGE OR RELOCATE THE WORK IN ACCORDANCE WITH INSTRUCTIONS PROVIDED BY THE OWNER. ALL WORK SHALL BE DONE AT NO COST TO THE OWNER.  
I. REFER TO DRAWINGS FOR REMOVAL REQUIREMENTS AND NOTES.  
J. DELIVER TO OWNER ALL MATERIALS AND EQUIPMENT DESIGNATED OR DIRECTED BY OWNER TO BE SALVAGED. ALL OTHER MATERIALS OR EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE.
4. **CUTTING AND PATCHING:**  
A. CUTTING AND PATCHING ASSOCIATED WITH BOTH NEW AND EXISTING WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. EXISTING SURFACES WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR PROVIDED WITH NEW MATERIALS. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED.  
B. ALL PATCHING SHALL BE DONE WITH MATERIALS AND METHODS SIMILAR TO EXISTING ADJACENT WORK. SUBJECT TO APPROVAL OF THE OWNER.
5. **SLEEVES AND PLATES:**  
A. PIPE SLEEVES THROUGH DRYWALL AND SIMILAR CONSTRUCTION SHALL BE SCHEDULE 40 STEEL PIPE. PROVIDE 20 GAUGE GALVANIZED SLEEVE OR TRIM ANGLES FOR ALL DUCTWORK PASSING THROUGH MASONRY, DRYWALL, PLYWOOD, MASONITE, AND SIMILAR TYPE CONSTRUCTION.  
B. ESCUTCHEON PLATES OF SPLIT CHROME PLATED BRASS SHALL BE PROVIDED FOR ALL NEW AND EXISTING PIPES PASSING THROUGH WALL, FLOOR OR CEILING CONSTRUCTION IN FINISHED SPACES.
6. **ACCESSIBILITY:**  
A. LOCATE ALL EQUIPMENT AND MATERIALS WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS TO ALLOW ACCESS AND SERVICE CLEARANCES NOT LESS THAN RECOMMENDED BY MANUFACTURER AND AS REQUIRED BY CODE. EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO HVAC EQUIPMENT, VAV TERMINAL UNITS, VALVES, PIPING SPECIALTIES, ETC. WHERE INDICATED OR REQUIRED. PROVIDE ACCESS DOORS AS REQUIRED AND WHERE INDICATED OR DIRECTED BY OWNER.  
B. REWORK ANY EQUIPMENT DEEMED INACCESSIBLE BY OWNER AT NO ADDITIONAL COST.
7. **OPERATING AND MAINTENANCE INSTRUCTIONS:**  
A. ALL SYSTEMS AND EQUIPMENT SHALL BE SATISFACTORILY DEMONSTRATED BY THE CONTRACTOR TO THE OWNER.
8. **IDENTIFICATION:**  
A. PIPING SHALL BE IDENTIFIED WITH PRESSURE SENSITIVE COLOR VINYL LABELS AS MANUFACTURED BY SETON OR APPROVED EQUAL. LABELS SHALL BE HELD IN PLACE BY ADHESIVE BACKING AND PRESSURE SENSITIVE TAPE OF THE SAME COLOR, PROVIDED AT EACH END. LABELS SHALL BE PLACED AROUND THE PIPING OR INSULATION EVERY TWENTY (20) FEET MINIMUM. LABELS SHALL HAVE MINIMUM 1-1/4 INCH HIGH BLACK LETTERS WITH DIRECTION OF FLOW ARROWS. COLOR CODING AND STENCIL DESIGNATIONS SHALL BE AS FOLLOWS:
- | SERVICE:                     | COLOR: | STENCIL DESIGNATION:                 |
|------------------------------|--------|--------------------------------------|
| FIRE PROTECTION (MAINS ONLY) | RED    | FIRE PROTECTION WATER                |
| DOMESTIC WATER               | GREEN  | DOMESTIC WATER (HOT, COLD, OR REIRC) |
| VENT                         | BROWN  | VENT                                 |
| SANITARY                     | BROWN  | SANITARY                             |
| HOT WATER HEATING            | YELLOW | HOT WATER HEATING (SUPPLY OR RETURN) |
- B. ALL CONTROL DEVICES AND EQUIPMENT, I.E., PANELS, SWITCHES, TEMPERATURE CONTROLLERS, VAV TERMINAL UNITS, ETC., SHALL BE MARKED TO CLEARLY IDENTIFY EQUIPMENT, FUNCTION AND SPACE OR UTILITY THEY SERVE. MECHANICAL EQUIPMENT SHALL BE IDENTIFIED USING ENGRAVED LAMINATED BLACK AND WHITE PHENOLIC PLATES. LETTERS SHALL BE MINIMUM 3/4-INCH HIGH WHITE ON SURROUNDING BLACK. PLATES SHALL BE MOUNTED BY MEANS OF SHEET METAL SCREWS. SUBMIT NAMEPLATE LIST TO THE OWNER CONFORMING TO UNIVERSITY STANDARDS FOR APPROVAL.  
C. ALL MECHANICAL AND ELECTRICAL DEVICES AND EQUIPMENT, I.E., VALVES, VAV TERMINAL UNITS, ETC., CONCEALED ABOVE CEILINGS SHALL BE IDENTIFIED AS TO LOCATION USING CLEAR PLASTIC SELF-ADHESIVE TAPE WITH BLACK LETTERING, APPLIED TO CEILING TILE "T" BARS. SUBMIT NAME/TAPE LIST CONFORMING TO UNIVERSITY STANDARDS FOR APPROVAL.
9. **PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS - GENERAL:**  
A. INSTALL PIPING CONCEALED ABOVE SUSPENDED CEILINGS UNLESS OTHERWISE INDICATED. PIPING INSTALLED IN EQUIPMENT ROOMS AND ROOMS WITHOUT CEILINGS, AND RUNOUTS TO EQUIPMENT INSTALLED WITH FINISHED SPACES SHALL BE RUN EXPOSED.  
B. INSTALL ALL PIPING, REGARDLESS OF EXPOSURE OR CONCEALMENT, AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE.  
C. INSTALL PIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL AND TO PERMIT SERVICING OF VALVES, TRAPS, ETC.  
D. INSTALL PIPING AT REQUIRED SLOPES, AND FREE OF SAGS AND BENDS.  
E. INSTALL PIPING TO ALLOW APPLICATION OF INSULATION.  
F. SELECT SYSTEM COMPONENTS WITH PRESSURE RATING EQUAL TO OR GREATER THAN 1.25 TIMES SYSTEM OPERATING PRESSURE.  
G. REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS. BEVEL PLAN ENDS OF STEEL PIPE. REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPE AND FITTINGS BEFORE ASSEMBLY.  
H. SOLDERED JOINTS: APPLY ASTM B 813, WATER-FLUSHABLE FLUX, UNLESS OTHERWISE INDICATED, TO TUBE END. CONSTRUCT JOINTS ACCORDING TO ASTM B 828 OR CDA'S "COPPER TUBE HANDBOOK," USING LEAD-FREE SOLDER ALLOY COMPLYING WITH ASTM B 32.  
I. THREADED JOINTS: THREAD PIPE WITH TAPERED PIPE THREADS ACCORDING TO ASME B1.20.1. CUT THREADS FULL AND CLEAN USING SHARP DIES. REAM THREADED PIPE ENDS TO REMOVE BURRS AND RESTORE FULL ID. JOIN PIPE FITTINGS AND TUBES AS FOLLOWS:  
(1) APPLY APPROPRIATE TAPE OR THREAD COMPOUND TO EXTERNAL PIPE THREADS UNLESS DRY SEAL THREADING IS SPECIFIED.  
(2) DAMAGED THREADS DO NOT USE PIPE OR PIPE FITTINGS WITH THREADS THAT ARE CORRODED OR DAMAGED. DO NOT USE PIPE SECTIONS HAVING CRACKED OR OPEN WELDS.  
J. INSTALL UNIONS, IN PIPING NPS 2 AND SMALLER, ADJACENT TO EACH CONTROL VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL FLANGES, IN PIPING NPS 2-1/2 AND LARGER, ADJACENT TO FLANGED VALVES AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT.  
K. INSTALL DIELECTRIC UNIONS AND FLANGES OR DIELECTRIC COUPLINGS AND FITTINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. PROVIDE MATERIALS SUITABLE FOR THE SERVICE APPLICATION.  
L. INSTALL EQUIPMENT TO ALLOW MAXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS ARE INDICATED.  
M. INSTALL EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS.  
N. INSTALL EQUIPMENT TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT EQUIPMENT FOR EASE OF DISASSEMBLY, WITH MINIMUM INTERFERENCE TO OTHER INSTALLATIONS. IN NO CASE SHALL EQUIPMENT BE INSTALLED WITH SERVICE CLEARANCE LESS THAN MANUFACTURER'S RECOMMENDATIONS.
10. **PIPE, FITTINGS AND JOINTS:**  
A. SANITARY AND VENT PIPE AND FITTINGS (OF LESS THAN 4.3 PSI):  
(1) GENERAL REQUIREMENTS  
(a) IN SOIL OR WASTE PIPE, PROVIDE Y-TYPE FITTINGS IN BRANCH CONNECTIONS SUCH THAT BRANCH FITTINGS MARK IN DIRECTION OF FLOW.  
(b) INSTALL TRUE TO GRADES AND ALIGN AS INDICATED ON DRAWINGS, WITH UNBROKEN CONTINUITY OF INVERT. PLACE HUB ENDS OF PIPE UPSTREAM.  
(c) INSTALL REQUIRED GASKETS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR USE OF LUBRICANTS, CEMENTS, AND OTHER INSTALLATION REQUIREMENTS.  
(d) MAINTAIN SWAB IN PIPING, AND PULL PAST EACH JOINT AS COMPLETED TO PREVENT DEBRIS AND FOREIGN MATERIAL ENTERING COMPLETED PIPE.  
(e) INSTALL VARIOUS PIPING TYPES AS FOLLOWS:  
(i) CAST-IRON SOIL PIPING PER CISPIPS "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS.  
(ii) CAST-IRON SOIL PIPING PER CISPIPS "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS.  
(iii) ABOVEGROUND COPPER TUBING PER CDA "COPPER TUBE HANDBOOK," SECTION 1.1.  
(iv) UNLESS OTHERWISE DIRECTED, INSTALL SOIL, WASTE AND VENT PIPING AT THE FOLLOWING MINIMUM SLOPES:  

PIPE	ORIENTATION	SLOPE (%)
BUILDING SANITARY WASTE	DOWNWARD IN DIRECTION OF FLOW	2
HORIZ. SANITARY WASTE	DOWNWARD IN DIRECTION OF FLOW	2
VENT	DOWN TOWARD VERTICAL, FIXTURE-VENT OR VENT STACK	1

**A**

11. **PIPING SPECIALTIES:**

- A. MANUAL AIR VENTS SHALL BE 1/2" LOCKING BALL VALVE INSTALLED AS SHOWN ON DRAWINGS OR AS SPECIFIED FOR PROPER VENTING OF EQUIPMENT.  
B. UNIONS SHALL BE PROVIDED WHERE INDICATED. AT EACH CONTROL VALVE AND AS REQUIRED FOR EQUIPMENT, CONTROL VALVE OR PIPING REPLACEMENT. UNIONS FOR STEEL PIPE SHALL BE 250 LB. MALLEABLE IRON BRASS SEAT TYPE. UNIONS FOR COPPER PIPE SHALL BE WROUGHT COPPER WITH RED BRONZE RING NUT.  
C. DIELECTRIC UNIONS SHALL BE PROVIDED WHERE REQUIRED AND WHERE NON-FERROUS METAL IS JOINED TO FERROUS METAL.  
D. PIPELINE "Y" STRAINERS SHALL BE Y-PATTERN AS MANUFACTURED BY MUELLER STEEN SPECIALTY COMPANY, INC. OR APPROVED EQUAL. SCREENS SHALL BE STAINLESS STEEL WITH 1/32-INCH PERFORATIONS FOR WATER SERVICE. PROVIDE VALVED BLOWDOWN CONNECTIONS ON EACH STRAINER CONSISTING OF A BALL VALVE SET BETWEEN TWO SHORT NIPPLES. BUSH STRAINER OUTLET AS REQUIRED FOR 3/4-INCH MINIMUM CONNECTION. PROVIDE CAP AND CHAINED OUTLET. PROVIDE MODEL NO. 351M (BRONZE BODY FOR 2-1/2 INCHES AND SMALLER) WITH THREADED ENDS. PRESSURE/TEMPERATURE TEST PLUGS SHALL BE 1/4-INCH NPT FITTINGS SUITABLE TO RECEIVE EITHER A 1/8-INCH OD TEMPERATURE OR PRESSURE PROBE. PLUGS SHALL BE MANUFACTURED BY PETERSON EQUIPMENT CO. OR APPROVED EQUAL.
12. **POTABLE WATER SYSTEM REQUIREMENTS:**  
A. ALL PIPING, FITTINGS, VALVES AND OTHER COMPONENTS INSTALLED WITHIN A POTABLE WATER DISTRIBUTION SYSTEM SHALL COMPLY WITH NSF 61 "DRINKING WATER SYSTEM COMPONENTS-HEALTH EFFECTS".
13. **PLUMBING FIXTURES, DRAINS AND EQUIPMENT:**  
A. FIXTURES:  
(1) BREAK ROOM SINK: SINGLE COMPARTMENT, SEAMLESS DIE-DRAWN 18 GAUGE TYPE 304, 18-8 STAINLESS STEEL, COUNTER MOUNTED, SELF RIMMING NOMINAL 21-IN X 31-IN X 6.5-IN DEEP, 3 PUNED FAUCET HOLES, 4-INCH ON CENTER, SOUND DEADENED, FITTED WITH DECK MOUNTED CHROME PLATED BRASS FAUCET, CUP STRAINER DRAIN, TRAP WITH NIPPLE, AND SUPPLIES WITH STOPS AND ESCUTCHEONS.  
(a) FIXTURE: JUST MODEL NO. SBA-2131-A-GR  
(b) FAUCET: CHICAGO MODEL NO. 786-GN8AE35ABP 8" RIGID/WING GOOSENECK W/ 1.5 GPM SOFT FLO AERATOR  
(c) DRAIN: JUST MODEL NO. J-35  
(d) TRAP: ENGINEERED BRASS CO. MODEL NO. TA-150  
(e) SUPPLIES: CHICAGO MODEL NO. 1005
14. **VALVES:**  
A. VALVES SHALL BE PROVIDED WHERE INDICATED ON DRAWINGS AND AS HEREIN SPECIFIED. VALVES SHALL BE PLACED IN SUCH A MANNER AS TO BE EASILY ACCESSIBLE FOR OPERATION AND MAINTENANCE. VALVE PIPE CONNECTIONS SHALL BE SCREWED OR FLANGED WITH CONNECTIONS TO PIPING SYSTEM CONSISTENT WITH OTHER PARTS OF THE PIPING SYSTEM.  
B. ALL VALVES INSTALLED IN INSULATED PIPING SYSTEMS SHALL BE PROVIDED WITH MINIMUM 2-INCH EXTENSION NECKS.  
C. BALL VALVES SHALL BE USED SYSTEMS SIZE 2-1/2 INCHES AND SMALLER FOR SHUT-OFF SERVICE. STEM SHALL BE BLOWOUT PROOF. STEM PACKING SHALL BE EXTERNALLY ADJUSTABLE TO COMPENSATE FOR WEAR. VALVE SHALL BE EQUIPPED WITH VINYL COVERED LEVER HANDLE WHICH SHALL INDICATE POSITION OF BALL ORifice AND SHALL HAVE STOPS FOR FULLY OPEN AND CLOSED POSITION. LEVER SHALL BE PROVIDED WITH LOCKABLE DEVICE WHICH CAN LOCK VALVE IN EITHER THE OPEN OR CLOSED POSITION. VALVE SHALL BE SUITABLE FOR FLOW IN EITHER DIRECTION AND SHALL BE LEAK PROOF AT DESIGN OPERATING CONDITIONS IN THE OPEN OR SHUT POSITION.  
(1) BALL VALVES FOR ALL SERVICES, INCLUDING ASSOCIATED DRAINS, 2" AND SMALLER, SHALL BE OF THE 2-PIECE DESIGN SUITABLE FOR 205 PSIG WATER. VALVES SHALL COMPRISE OF ASTM B24 BRONZE BODY WITH THREADED OR SOLDERED END CONNECTIONS, 316 STAINLESS STEEL STANDARD PORT BALL, STAINLESS STEEL STEM, REINFORCED TEFLOON SEAT AND THRUST WASHER, TEFLOON BODY SEAL, MULTIPLE PIECE V-RING OR GRAPHITE STEM PACKING, AND THREADED HEXAGONAL GLAND FOLLOWER. BALL VALVES SHALL BE AS MANUFACTURED BY MILWAUKEE, APOLLO, JAMESBURY OR WORCESTER.  
D. PROVIDE BALANCING VALVES FOR WATER SYSTEMS WHERE INDICATED.  
(a) VALVES 2-1/2 INCH AND SMALLER SHALL BE ARMSTRONG MODEL CBV OR APPROVED EQUAL. VALVE SHALL BE FOUR ANDERSON WITH TWO 1/4-INCH BRASS METERING PORTS WITH CHECK VALVES AND CAPS.  
(1) VALVE SHALL HAVE MULTI-TURN 360 DEGREE ADJUSTMENT HANDWHEEL WITH MEMORY STOP FOR LOCKING VALVE IN THE BALANCED POSITION.  
(2) PROVIDE VALVES WITH END CONNECTIONS SUITABLE FOR PIPING IN WHICH THEY ARE INSTALLED.  
(3) PROVIDE ONE (1) ARMSTRONG COMPUTERIZED FLOW METER TO MEASURE BALANCED FLOW THROUGH VALVES.  
E. DRAIN/BLOWDOWN VALVES SHALL BE HOSE END TYPE AND SHALL BE PROVIDED AT LOW POINTS OF ALL PIPING SYSTEMS AND WHERE INDICATED. VALVES SHALL BE 3/4-INCH MINIMUM BALL TYPE VALVES AS SPECIFIED ABOVE. PROVIDE EACH DRAIN VALVE WITH THREADED CAP AND CHAIN.
15. **PIPING TESTS:**  
A. GENERAL:  
(1) THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, LABOR, AND MATERIAL, REQUIRED TO MAKE THE REQUIRED TESTS. IF WATER IS UNAVAILABLE, THEN THE CONTRACTOR SHALL PROVIDE A SOURCE OF WATER (E.G., TANK, CYLINDER).  
(2) ALL TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH APPLICABLE ASME REQUIREMENTS AND APPLICABLE OSHA REGULATIONS.  
(3) ISOLATE ALL PIPE UNDER TEST FROM EQUIPMENT, INSTRUMENTS SUBJECT TO DAMAGE, AND OTHER PIPE NOT PART OF THE NEW CONSTRUCTION DURING TESTING.  
(4) REPLACE ALL JOINTS FOUND TO BE LEAKING WITH NEW MATERIALS, AND RETEST UNTIL NO FURTHER LEAKS EXIST.  
(5) NOTIFY THE OWNER PRIOR TO TESTS. PERFORM ALL TESTS PRIOR TO MAKING NEW CONNECTIONS TO EXISTING SYSTEMS.  
(6) PIPING MAY BE TESTED A SECTION AT A TIME IN ORDER TO FACILITATE THE CONSTRUCTION. THE CONTRACTOR SHALL FILL THE SECTION OF THE PIPE TO BE TESTED WITH WATER, TAKING CARE TO BLEED ALL OF THE AIR OUT OF THE PIPING SYSTEM. THE TESTS SHALL BE CONDUCTED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE. SHOULD ANY LEAKS DEVELOP, LEAKS SHALL BE REPAIRED AND THE SYSTEM RETESTED.  
(7) ALL TESTS SHALL BE CONDUCTED BEFORE ANY INSULATION IS INSTALLED, AND ANY INSULATION INSTALLED PRIOR TO THESE TESTS SHALL BE REMOVED AND THEN REPLACED AFTER SUCCESSFUL COMPLETION OF THE TEST AT NO ADDITIONAL COST TO THE OWNER. GAUGES USED IN THE TESTS SHALL BE PROVEN TO HAVE BEEN RECENTLY CALIBRATED.  
B. HYDROSTATIC PIPING:  
(1) DOMESTIC-WATER, HOT-WATER HEATING, OTHER THAN DRAINS AND UNLESS SPECIFICALLY INDICATED OTHERWISE, SHALL BE HYDROSTATICALLY TESTED AS FOLLOWS:  
(a) SANITARY WATER SHALL BE HYDROSTATICALLY TESTED AS REQUIRED BY CODE AND, AT A MINIMUM, SHALL INCLUDE FILLING THE SYSTEM WITH WATER TO THE HIGHEST LEVEL OF PIPING TO BE TESTED BUT NOT LESS THAN 10-FOOT HEAD OF WATER. ALLOW TO STAND AT LEAST 30 MINUTES BEFORE INSPECTION.  
(b) PRESSURE PIPING SYSTEMS, UNLESS OTHERWISE SPECIFIED HEREIN, SHALL BE FILLED WITH WATER AND THOROUGHLY FLUSHED CLEAN OF FOREIGN MATTER AFTER ERECTION AND BEFORE CONNECTION TO THE EXISTING SYSTEMS AND NEW OR EXISTING EQUIPMENT. TEST ALL PIPING PRIOR TO INSTALLATION OF INSULATION. REPAIR ALL LEAKS AND RETEST AT NO COST TO OWNER.  
(2) PIPING SHALL BE TESTED TO 1.5 TIMES MAWP (MAXIMUM ALLOWABLE WORKING PRESSURE), BUT NOT LESS THAN 100PSIG.  
(3) ALLOWABLE PRESSURE LOSS DURING THIS PERIOD SHALL NOT EXCEED 5 PERCENT. MAINTAIN TEST PRESSURE FOR A SUFFICIENT TIME BUT NOT LESS THAN FOUR (4) HOURS TO LOCATE AND ELIMINATE ALL LEAKS.  
C. DISINFECT DOMESTIC WATER PIPING IN ACCORDANCE WITH THE METHODS PRESCRIBED BY STATE DEPARTMENT OF HEALTH AND GOVERNMENT COUNTY PLUMBING CODE. CONDUCT DISINFECTION IN THE PRESENCE OF OWNERS REPRESENTATIVE.  
D. FIRE PROTECTION PIPING SHALL BE TESTED AS HEREAFTER SPECIFIED.
16. **HANGERS AND SUPPORTS:**  
A. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AN ADEQUATE PIPE SUSPENSION SYSTEM IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRACTICES, USING STANDARD, COMMERCIALLY ACCEPTED PIPE HANGERS AND SUSPENSION EQUIPMENT. THE DESIGN OF ALL HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH THE PROVISION OF CURRENT ISSUE OF

- MSS-SP-58 AND SP-69 DOCUMENT DEVELOPED AS A STANDARD BY THE MANUFACTURERS' STANDARDIZATION SOCIETY.  
B. PIPE HANGERS FOR STEEL PIPE 2-INCH AND SMALLER AND COPPER PIPE 1-1/2-INCH AND LARGER SHALL BE SPACED AT LEAST EVERY 8 FEET. HANGERS FOR COPPER PIPE 1-1/4-INCH AND SMALLER SHALL BE SPACED AT LEAST EVERY 6 FEET. ADDITIONALLY, HANGERS SHALL BE PLACED WITHIN ONE FOOT OF EACH HORIZONTAL ELBOW AND WHERE CONCENTRATED LOADS AT VALVES, FITTINGS AND SIMILAR OCCUR. CLOSER HANGER SPACING SHALL BE REQUIRED.  
C. PIPE HANGERS IN CONTACT WITH COPPER PIPE SHALL BE COPPER PLATED. PIPE HANGERS AND HANGER SUPPORTS SHALL CONFORM WITH THE FOLLOWING GRINNELL FIGURES:  
(1) HANGERS GENERALLY SHALL BE FIG. 65 AND 260.  
(2) CLAMPS SHALL BE FIG. 261.  
D. IN LIEU OF INDIVIDUAL HANGERS, MULTIPLE (TRAPEZOID) HANGERS MAY BE USED. HORIZONTAL MEMBERS SHALL CONSIST OF 1-1/2 INCH BY 1-1/2 INCH, 12 GAUGE COLD FORMED CHANNELS AS MANUFACTURED BY KINDORF SERIES B-995 OR APPROVED EQUAL. PROVIDE METAL FRAMING SYSTEM WITH APPLICABLE FASTENERS, SPRINGHELD HARDENED STEEL NUTS, BRACKETS, FITTINGS, CLAMPS, ETC., TO SUIT THE INSTALLATION.  
E. HANGER ATTACHMENTS SHALL BE SUITABLE FOR EACH TYPE OF HANGER AND SHALL BE COMPATIBLE WITH THE BUILDING MATERIAL TO WHICH IT IS SECURED.  
(1) STEEL BEAMS - FIG. 228, 218 OR 229 ATTACHMENTS FOR PIPES 2-1/2 INCHES AND LARGER.  
(2) STEEL BEAMS - FIG. 87 OR 88 ATTACHMENTS FOR PIPES 2 INCHES AND SMALLER.  
F. IN NO CASE SHALL WIRE OR PERFORATED STRAP BE USED FOR PIPE OR CONDUIT SUPPORT.  
G. SECURE ALL HANGERS FOR PIPING, DUCTWORK, EQUIPMENT, ETC., TO STRUCTURAL BEAMS, TRUSS MEMBERS, OR NEW FRAMING MEMBERS AS REQUIRED. IN NO CASE SHALL SUPPORTS BE SECURED TO THE UNDERSIDE OF ROOF DECK UNLESS DIRECTED IN THE FIELD BY THE OWNER. CONTRACTOR SHALL SUBMIT DETAILS OF METHODS OF ATTACHMENT TO THE OWNER FOR APPROVAL.  
H. HANGERS SHALL PROVIDE ADDITIONAL STRUCTURAL FRAMING MEMBERS (BEAMS, ANGLES, CHANNELS, ETC.) AS REQUIRED TO INSTALL PIPING, DUCTWORK, EQUIPMENT, ETC. AT THE RECOMMENDED HANGER SPACING INTERVALS WHERE ATTACHMENT TO STEEL OR UNDERSIDE OF BUILDING CONSTRUCTION IS UNAVAILABLE. THE TYPE AND SIZE OF THE SUPPORTING CHANNELS AND SUPPLEMENTARY STEEL SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL BE OF SUFFICIENT STRENGTH AND SIZE TO ALLOW ONLY A MINIMUM DEFLECTION IN CONFORMANCE WITH THE RECOMMENDED HANGER SPACING INTERVALS FOR LOADING. CONTRACTOR SHALL SUBMIT DETAILS FOR APPROVAL TO THE OWNER.

17. **INSULATION:**

- A. ALL INSULATION AND FINISHES SHALL BE INSTALLED BY SKILLED WORKMEN REGULARLY ENGAGED IN THIS TYPE OF WORK AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' PUBLISHED INSTRUCTIONS.  
B. INSULATION SHALL BE CONTINUOUS AT ALL HANGERS, SLEEVES, AND OPENINGS. VAPOR SEAL SHALL BE PROVIDED FOR ALL COLD SURFACES AND SHALL BE CONTINUOUS.  
C. INSULATION MATERIALS SHALL NOT BE APPLIED UNTIL ALL SURFACES TO BE COVERED ARE CLEAN AND DRY, AND PIPING AND DUCT SYSTEMS ARE TESTED.  
D. MATERIALS SHALL CONFORM TO THE FOLLOWING PRODUCTS INDICATED AS MANUFACTURED BY ARMSTRONG, MANVILLE, OWENS/CORNING, CERTAIN-TEED, KNAUF OR APPROVED EQUAL.  
  
TYPE I:  
HEAVY DUTY FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER JACKET EQUAL TO MANVILLE MICRO-LOK 650 WITH APT ALL SERVICE JACKET AND PRESSURE SENSITIVE SELF-SEALING LAPS. K-FACTOR SHALL NOT EXCEED 0.23 AT 75 DEGREES F MEAN TEMPERATURE. ALL LONGITUDINAL LAPS SHALL BE STAPLED EVERY SIX (6) INCHES. ALL BUTT JOINTS SHALL BE WRAPPED WITH A MINIMUM MINIMUM WIDE STRIP OF JACKETING MATERIAL SECURELY SEALED IN PLACE.  
  
TYPE II:  
LIGHTWEIGHT BLANKET TYPE FIBERGLASS DUCT INSULATION WITH VAPOR BARRIER FACING EQUAL TO MANVILLE MICROLITE TYPE FSK. K-FACTOR SHALL NOT EXCEED 0.24 AT 75 DEGREES F MEAN TEMPERATURE WITH DENSITY NOT LESS THAN 1.0 PCF. INSULATION SHALL BE APPLIED WITH ADHESIVE AND BOTTOM WELDED Joints TO PREVENT DISTORTION AND SAGGING. LAP ALL JOINTS AND STAPLE. TAPE ALL JOINT AND PENETRATIONS.  
E. INSULATION TYPE AND THICKNESS SHALL CONFORM TO THE FOLLOWING SCHEDULE:
- | SERVICE:                                     | TYPE: | THICKNESS: |
|--|-------|------------|
| HEATING HOT WATER                            | I     | 1-1/2"     |
| DOMESTIC HOT & COLD WATER, AND POTABLE WATER | I     | 1 1/2"     |
| SUPPLY DUCTWORK - CONCEALED                  | II    | 2"         |
- F. INSULATION SHALL NOT BE REQUIRED ON SPRINKLER PIPING AND EXHAUST DUCTWORK.  
G. PIPE FITTINGS AND VALVES SHALL BE INSULATED WITH ZESTON PREMOLDED ONE-PIECE 20 MIL PVC INSULATED FITTING COVER AND FACTORY PRECUT INSULATION.  
H. REPLACE AND REPAIR INSULATION DISTURBED BY TESTING AND BALANCING PROCEDURES HEREIN IN TESTED.  
I. REPLACE AND REPAIR EXISTING INSULATION DISTURBED OR DAMAGED BY WORK UNDER THIS CONTRACT.  
J. PROVIDE HIGH DENSITY PIPE INSERTS WITH GALVANIZED METAL PIPE SHIELDS AT ALL POINTS OF SUPPORT OF PIPING SYSTEMS. DIAMETER OF INSERT SHALL MATCH INSULATION THICKNESS AND ENCOMPASS 50% OF THE SURFACE. WOOD BLOCKING AND METAL INSERTS ARE UNACCEPTABLE.

18. **LOW PRESSURE (LP) DUCTWORK:**

- A. LOW PRESSURE DUCTWORK SHALL BE LIMITED TO VELOCITIES UNDER 2500 FPM AND 2IN-WG POSITIVE OR NEGATIVE, AND SHALL COMPLY WITH THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" FOR FABRICATION AND INSTALLATION OF LOW-PRESSURE DUCTWORK.  
B. ALL SUPPLY DUCTWORK DOWNSTREAM OF AIR TERMINAL UNITS, RETURN AIR DUCTWORK, AND EXHAUST DUCTWORK, UNLESS OTHERWISE SPECIFIED, SHALL BE "LOW PRESSURE" DUCT CONSTRUCTION AS HEREIN SPECIFIED.  
C. ALL LOW PRESSURE DUCTWORK SHALL BE RATED 2-INCH W.G. AND SEALED IN ACCORDANCE WITH "SEAL CLASS C." DUCTWORK SHALL BE CONSTRUCTED OF PRIME QUALITY G90 GALVANIZED STEEL. EXCEPT DUCTWORK AT HUMIDIFIER DISTRIBUTION MANIFOLDS, SHALL BE CONSTRUCTED OF TYPE 316 STAINLESS STEEL. ALL WELDED CONSTRUCTION AS INDICATED ON DRAWINGS. REINFORCE ALL DUCTS TO PREVENT BUCKLING, BREATHTINGS, VIBRATIONS, OR UNNECESSARY NOISE. SUCH REINFORCING SHALL BE AS RECOMMENDED IN DUCT MANUAL, PLUS ANY ADDITIONAL REINFORCING AS REQUIRED TO MEET JOB CONDITIONS. ELBOWS SHALL BE DOUBLE RADIUS VANES ONLY WITH BLADE ALIGNMENT ASSEMBLY, EXCEPT ELBOWS ON RETURN AIR CEILING DEVICES SHALL BE UNWAVED.  
D. DUCT SIZES INDICATED ON THE DRAWINGS ARE AIR SIDE SIZES. INCREASE SHEET METAL SIZES ACCORDINGLY TO COMPENSATE FOR THICKNESS OF SOUND LINING.  
E. ALL DUCT JOINTS AND FITTINGS SHALL BE SEALED WITH UNITED MCGILL AIRFLOW, OR 3M EC-750 DUCT SEALER.  
F. DUCT ACCESS DOORS SHALL BE INSULATED, HAVE CONTINUOUS PIANO HINGE AND VENTLOCK #140 LATCH. SIZE OF DOOR SHALL BE MINIMUM 10-INCH BY 12-INCH UNLESS NOTED OTHERWISE. PROVIDE ACCESS DOORS WHERE INDICATED AND WHERE REQUIRED FOR MAINTENANCE OR INSPECTION.  
G. PROVIDE VOLUME DAMPERS CONSTRUCTED PER SMACNA FIG. 7-4 AND 7-5. PROVIDE VENTLOK #639 QUADRANT WITH STAND-OFFS ON ALL VOLUME DAMPERS INSTALLED IN INSULATED DUCTWORK. DEPTH OF STAND-OFFS SHALL EXCEED THICKNESS OF SPECIFIED INSULATION TO PROVIDE SUFFICIENT OPERATING CLEARANCES.  
H. CIRCULAR LOW PRESSURE SUPPLY DUCTWORK SHALL BE AS MANUFACTURED BY UNITED MCGILL, EASTERN, LEWIS AND LAMBERT, MONROE, PEABODY-WIND, OR SEMCO, EQUAL TO MCGILL UNISEAL LOW PRESSURE SPIRAL DUCTWORK AND FITTINGS.  
I. FLEXIBLE DUCTWORK SHALL BE HART & COOLEY TYPE F14 OR APPROVED EQUAL. FLEXIBLE DUCT SHALL COMPLY WITH NFPA BULLETIN 90A AND SHALL BE UL LISTED AS CLASS 1 AIR DUCT AND CONNECTOR, STANDARD 181. FLEXIBLE DUCT SHALL BE SUITABLE FOR INSTALLATION IN CEILING RETURN AIR PLenums.  
J. SUPPORT ALL DUCTS IN ACCORDANCE WITH DUCT MANUAL TABLES 5-1 AND 5-2, AND FIGURES #5-1 THROUGH #5-9 AS REQUIRED.  
K. TEST SUPPLY DUCTWORK FOR LEAKS BY SEALING OPENINGS AND PRESSURIZING SYSTEM TO 2-INCH W.G. STATIC PRESSURE. AS A MINIMUM, TEST TWO (2) COMPLETE DUCT SECTION AS SELECTED BY THE OWNER. USE TEST METHODS APPROVED BY THE OWNER. SEAL ALL JOINTS AS HEREIN SPECIFIED. LEAKAGE SHALL NOT EXCEED 3 PERCENT OF THE AIR FLOW SPECIFIED AT 2-INCH W.G. STATIC PRESSURE. SHOULD LEAKAGE EXCEED ALLOWED RATE, TEST ADDITIONAL SECTIONS AS DIRECTED BY OWNER.  
L. PROVIDE FLEXMASTER OR APPROVED EQUAL SPIN-FITTING WITH INTEGRAL, VOLUME DAMPER, TYPE CSD WHERE DUCT DIMENSIONS PERMIT OR TYPE FLD OTHERWISE AT BRANCHES FROM SUPPLY AIR MAINS TO AIR DEVICES.











**DRAWING NOTES:**

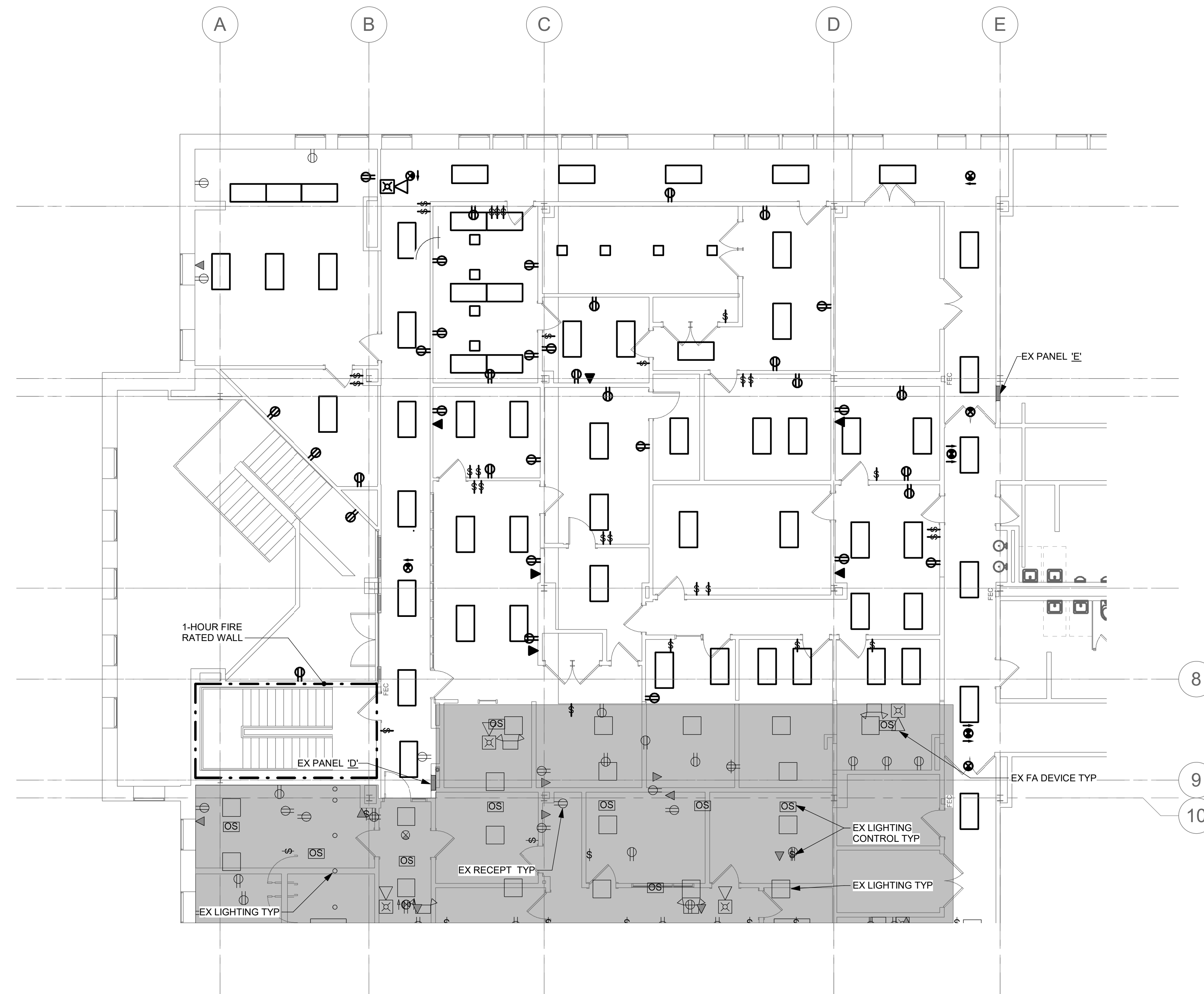
- A. REFER TO DRAWING E001 FOR SYMBOLS, ABBREVIATIONS, AND DRAWING CONVENTIONS.
- B. HEAVY LINE WEIGHT INDICATES DEMOLITION WORK. LIGHT LINE WEIGHT INDICATES EXISTING TO REMAIN.
- C. DEMOLITION PLAN IS INTENDED TO SHOW SCOPE OF WORK AND DOES NOT INDICATE EVERY DEVICE, CONDUIT AND BOX THAT MUST BE REMOVED.
- D. FOR AREAS THAT ARE NOT WITHIN THE SCOPE OF WORK MAINTAIN CONTINUITY OF BRANCH CIRCUITS.
- E. EXISTING CONDITIONS SHOWN ARE BASED ON LIMITED FIELD SURVEY AND EXISTING DOCUMENTATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INDICATED OR NOT INDICATED.
- F. FOR ALL LIGHTING FIXTURES, RECEPTACLES, LIGHT SWITCHES, ETC. INDICATED AS BEING REMOVED, REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.

D

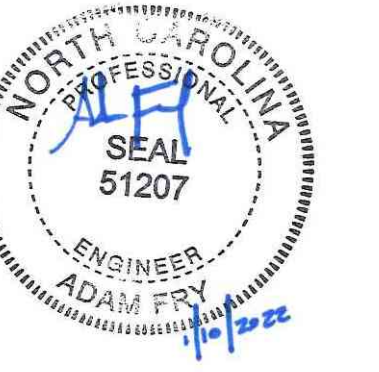
C

B

A



1 LEVEL 2 - FLOOR PLAN - ELECTRICAL - DEMOLITION  
 ED101/ 1/8" = 1'-0"



1/10/2022

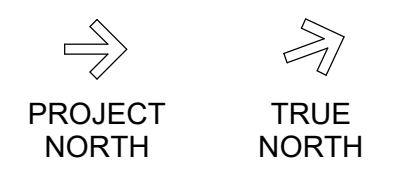
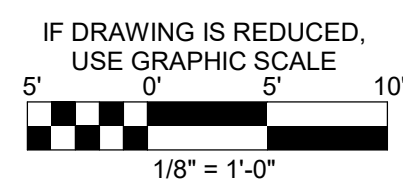


**UNC PEMBROKE  
 AMERICAN INDIAN  
 HERITAGE  
 CENTER**  
 SCO ID#: 21-23067-01A

TAG	DESCRIPTION	DATE

Project: 21PEM587  
 Drawn By: SAS  
 Checked By: ARF  
 Date: 1/10/2022  
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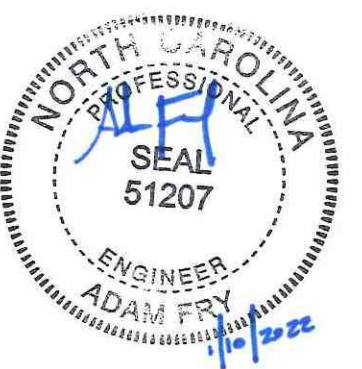
**FLOOR PLANS -  
 ELECTRICAL -  
 DEMOLITION**



**BID DOCUMENTS**

**ED101**



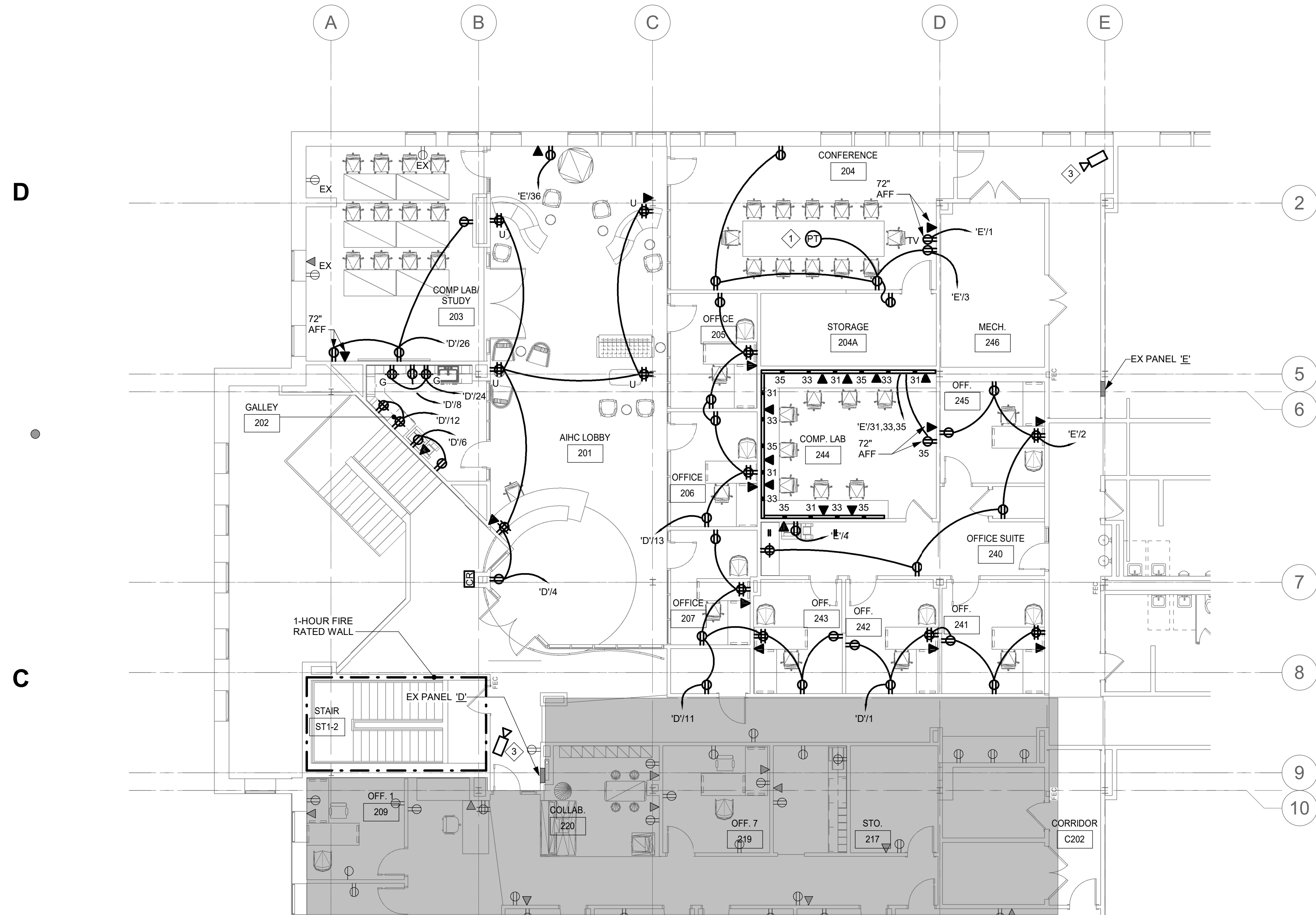


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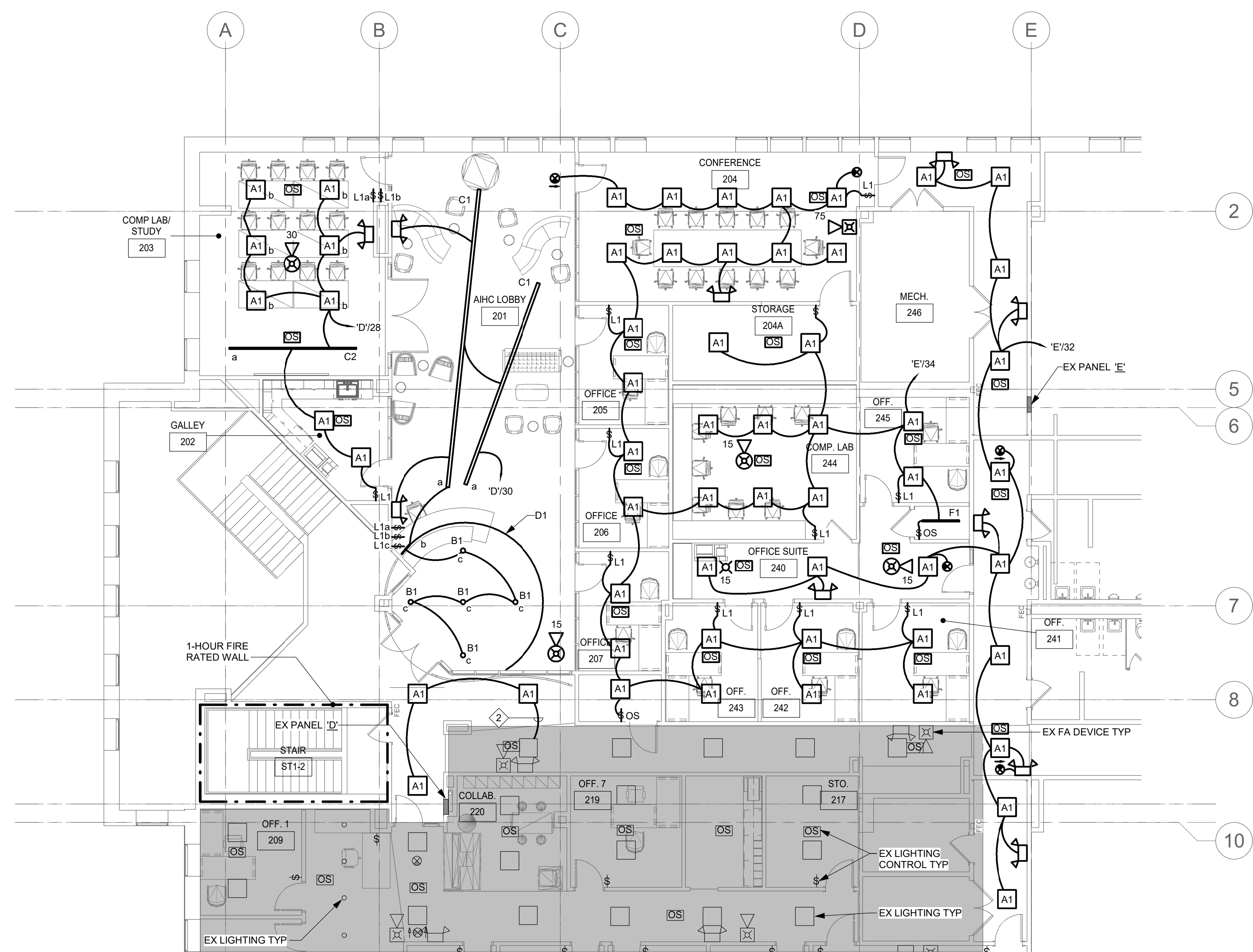


**UNC PEMBROKE  
AMERICAN INDIAN  
HERITAGE  
CENTER**

SCO ID#: 21-23067-01A



2 LEVEL 2 - FLOOR PLAN - ELECTRICAL - POWER  
E201 1/8" = 1'-0"

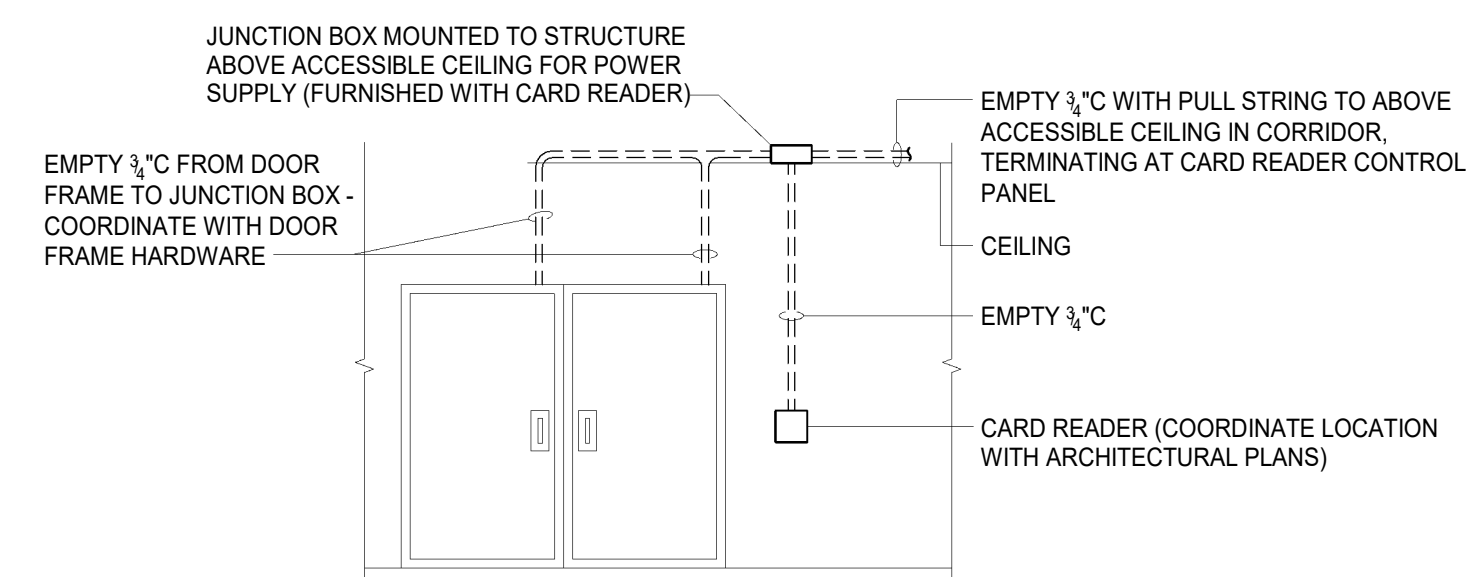


1 LEVEL 2 - FLOOR PLAN - ELECTRICAL - LIGHTING  
E201 1/8" = 1'-0"

PANELBOARD: 'D'		BUS RATING: 225 A		MAIN: MLO							
MIN AIC: 10,000		VOLTS: 208Y/120V		PHASES: 3							
ENCLOSURE: NEMA 1		MOUNTING: SURFACE		WIRES: 4							
LOCATION: Corridor 77		NOTES: EXISTING PANELBOARD		FED FROM:							
CKT #	ITEM SERVED	CB P	CB TA	A0 (KVA)	B0 (KVA)	C0 (KVA)	CB P	CB TA	ITEM SERVED	CKT #	
1	RECEPT - OFFICE 241 & 243	1	20	1.1	0.0		20	1	OFFICE LIGHTS (EX LOAD)	2	
3	CORR LIGHTING (EX LOAD)	1	20		0.0	1.3	20	1	RECEPT - AIHC LOBBY 5	4	
5	PUBLICATION LIGHTS (EX LOAD)	1	20		0.0	0.4	20	1	RECEPT - GALLERY 202	6	
7	RECEPT - ROOM 271, 272	1	20	1.1	0.2		20	1	RECEPT - GALLERY 202	8	
9	UNKNOWN EXISTING LOAD	1	20		0.0	0.2	20	1	LIGHTING - OFFICES AND CORRIDORS	10	
11	RECEPT - OFFICE 207 & 243	1	20				1.3	0.4	RECEPT - GALLERY 202	12	
13	RECEPT - OFFICE 205 & 206	1	20	1.1	0.0		20	1	OFFICE LIGHTS (EX LOAD)	14	
15	LOBBY LIGHTS (EX LOAD)	1	20		0.0	0.0	20	1	OFFICE LIGHTS (EX LOAD)	16	
17	LOBBY LIGHTS (EX LOAD)	1	20		0.0	0.0	20	1	OFFICE LIGHTS (EX LOAD)	18	
19	LIGHTS (EX LOAD)	1	20	0.0	0.0		20	1	RECEPT COMPUTER ROOM (EX LOAD)	20	
21	OUTSIDE LIGHTS & RECEPTS (EX LOAD)	1	20		0.0	0.0	20	1	RECEPT COMPUTER ROOM (EX LOAD)	22	
23	RECEPT - CORRIDOR & BREAK ROOM	1	20			1.1	0.4	20	1	RECEPT - GALLERY 202	24
25	UNKNOWN EXISTING LOAD	1	20	0.0	0.5		20	1	RECEPT - COMP LAB / STUDY 203	26	
27	RECEPT - ROOM 266, 265	1	20		1.1	0.0	20	1	LIGHTING - GALLERY 202 & COMP LAB / STUDY 203	28	
29	RECEPT - ROOM 260, 261	1	20			0.9	0.2	20	1	LIGHTING - AIHC LOBBY 201	30
31	EWIC & FAN (EX LOAD)	1	20	0.0	0.2		20	1	RECEPT - VENDING	32	
33	RECEPT (EX LOAD)	1	20		0.0	0.2	20	1	RECEPT - VENDING	34	
35	RECEPT - VENDING	1	20			0.2	0.2	20	1	RECEPT - BREAK ROOM	36
37	COPY (EX LOAD)	1	20	0.0	0.0		20	1	CAMERA (EX LOAD)	38	
39	COPY (EX LOAD)	1	20		0.0	1.1	20	1	RECEPT - ROOM 262, 263	40	
41	RECEPT - ROOM 264, 265	1	20			1.1	1.1	20	1	RECEPT - ROOM 266, 267	42
TOTAL PER PHASE:				4.1		3.8		7.0			
TOTAL CONNECTED:				14.9		41					

PANELBOARD: 'E'		BUS RATING: 225 A		MAIN: MLO							
MIN AIC: 10,000		VOLTS: 208Y/120V		PHASES: 3							
ENCLOSURE: NEMA 1		MOUNTING: SURFACE		WIRES: 4							
LOCATION: Corridor 77		NOTES: EXISTING PANELBOARD		FED FROM:							
CKT #	ITEM SERVED	CB P	CB TA	A0 (KVA)	B0 (KVA)	C0 (KVA)	CB P	CB TA	ITEM SERVED	CKT #	
1	RECEPT - TV - CONFERENCE 204	1	20	0.2	1.1		20	1	RECEPT - SUITE 240 & OFFICE 245	2	
3	RECEPT - CONFERENCE 204	1	20		1.3	0.2	20	1	RECEPT - PRINTER - SUITE 240	4	
5	CORRIDOR LTG (EX LOAD)	1	20			0.0	0.0	20	1	JANITOR & SNACK ROOM LTG (EX LOAD)	6
7	CLASSROOM LTG (EX LOAD)	1	20	0.0	0.0		20	1	SEMINAR LTG (EX LOAD)	8	
9	CLASSROOM LTG (EX LOAD)	1	20		0.0	0.0	20	1	SEMINAR LTG (EX LOAD)	10	
11	CLASSROOM LTG (EX LOAD)	1	20		0.0	0.0	20	1	SEMINAR LTG (EX LOAD)	12	
13	CLASSROOM LTG (EX LOAD)	1	20	0.0	0.0		20	1	SEMINAR LTG (EX LOAD)	14	
15	CLASSROOM LTG (EX LOAD)	1	20		0.0	0.0	20	1	LIGHTING (EX LOAD)	16	
17	CLASSROOM LTG (EX LOAD)	1	20			0.0	0.0	20	1	LIGHTING (EX LOAD)	18
19	OFFICE & STAIR LTG (EX LOAD)	1	20	0.0	0.0		20	1	EWIC (EX LOAD)	20	
21	OFFICE & STAIR LTG (EX LOAD)	1	20		0.0	0.0	20	1	RECEPT (EX LOAD)	22	
23	RECEPT (EX LOAD)	1	20			0.0	0.0	20	1	RECEPT (EX LOAD)	24
25	RECEPT (EX LOAD)	1	20	0.0	0.0		20	1	RECEPT (EX LOAD)	26	
27	RECEPT (EX LOAD)	1	20		0.0	0.0	20	1	RECEPT (EX LOAD)	28	
29	RECEPT (EX LOAD)	1	20			0.0	0.0	20	1	RECEPT (EX LOAD)	30
31	WIREFOLD - COMP LAB 244	1	20	0.5	0.0		20	1	LIGHTING - CORRIDOR	32	
33	WIREFOLD - COMP LAB 244	1	20		0.4	0.0	20	1	LIGHTING - OFFICES, COMP LAB & CONFERENCE	34	
35	WIREFOLD - COMP LAB 244	1	20			0.4	0.2	20	1	RECEPT - TV CART - AIHC LOBBY 5	36
37	UNKNOWN LOAD	1	20	0.0	0.0		20	1	UNKNOWN LOAD	38	
39	UNKNOWN LOAD	1	20		0.0	0.0	20	1	UNKNOWN LOAD	40	
41	UNKNOWN LOAD	1	20			0.0	0.0	20	1	UNKNOWN LOAD	42
TOTAL PER PHASE:				1.8		1.8		0.5			
TOTAL CONNECTED:				4.2		12					

FIXTURE TYPE	MOUNTING	MANUFACTURERS	CATALOG OR MODEL NUMBER	LAMPS (NOTE 1)	VOLTAGE (V)	DESCRIPTION
A1	CEILING RECESSED	DAY-BRITE	2-DL-G-34L-835-2-D-UNV-DIM	LED	120	2' X 2' LED RECESSED LIGHTING FIXTURE. 27 WATTS PER FIXTURE.
B1	CEILING RECESSED	FOCAL POINT OR APPROVED EQUAL	FLC4D-R0-1502L-1204-11-T-L04-RD-35K-DN-CD-WP	LED	120	4.5' RECESSED LED DOWNLIGHT. 19 WATTS PER FIXTURE.
C1	CEILING PENDANT	FOCAL POINT OR APPROVED EQUAL	FSM4L-S-FL-625LF-35K-TC-UNV-LD1-C98-WH-LENGTH	LED	120	4" NARROW LINEAR LED LIGHTING FIXTURE. LENGTH AS INDICATED FLOOR PLANS.
C2	CEILING RECESSED	FOCAL POINT OR APPROVED EQUAL	FSM2L-S-625LF-35K-TC-UNV-LD1-WH-LENGTH	LED	120	2" NARROW LINEAR LED LIGHTING FIXTURE W/ ASYMMETRIC LENS
D1	CEILING RECESSED	NOVA FLEX OR APPROVED EQUAL	NF/SP-CH-3916-2M-WT (LENS - NF-CH-3916-CIRCLEAR-2M)	LED	120	BENDABLE LED CHANNEL. PROVIDE MOUNTING CLIPS NF-CH-UNV-CLIP/ADJ.
EMERG LIGHTING UNIT	SURFACE	LITHONIA OR APPROVED EQUAL	ELM2L-SDRT	LED	120	EMERGENCY LIGHTING UNIT FOR EMERGENCY EGRESS LIGHTING.
EXIT	SURFACE	LITHONIA OR APPROVED EQUAL	LRP-RC-120/277-EL-N	LED	120	EDGE LIT EXIT SIGN WITH BATTERY
F1	CEILING SURFACE	COLUMBIA OR APPROVED EQUAL	CSL4-LSCS-4050	LED	120	48" STRIP LED, FROSTED ACRYLIC LENS, 0-10V DIMMING

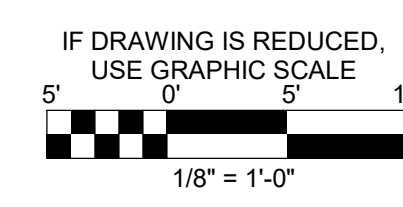


- NOTES:
- PROVIDE EMPTY BOXES AND CONDUIT TO ACCOMMODATE CARD READER POWER SUPPLY AND ASSOCIATED WIRING AT DOORS AS INDICATED IN ARCHITECTURAL DOOR SCHEDULE & SPECIFICATION.
  - REFER TO POWER PLANS & ARCHITECTURAL DOOR SCHEDULE FOR CARD READER LOCATION.

3 DETAIL - CARD READER  
E201 NOT TO SCALE

- DRAWING NOTES:
- REFER TO DRAWING E001 FOR SYMBOLS, ABBREVIATIONS, AND DRAWING CONVENTIONS.
  - CONTRACTOR SHALL PERFORM RECEPTANCE TESTING OF THE FIRE ALARM SYSTEM IN ACCORDANCE WITH 2013 NFPA 72 14.4.2.

- SPECIAL NOTES:
- PROVIDE 1" CONDUIT FROM FIRE RATED POKE-THRU TO TV LOCATION ON WALL.
  - CONNECT TO EXISTING LIGHTING BRANCH CIRCUIT.
  - PROVIDE LOW VOLTAGE CABLES TO CAMERA. COORDINATE WITH UNCP FOR RACK/SERVER ROOM LOCATION.



TAG	DESCRIPTION	DATE

Project: 21PEM587  
 Drawn By: SAS  
 Checked By: ARF  
 Date: 1/10/2022  
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**FLOOR PLANS &  
SCHEDULES -  
ELECTRICAL**



**BID DOCUMENTS**

**E201**







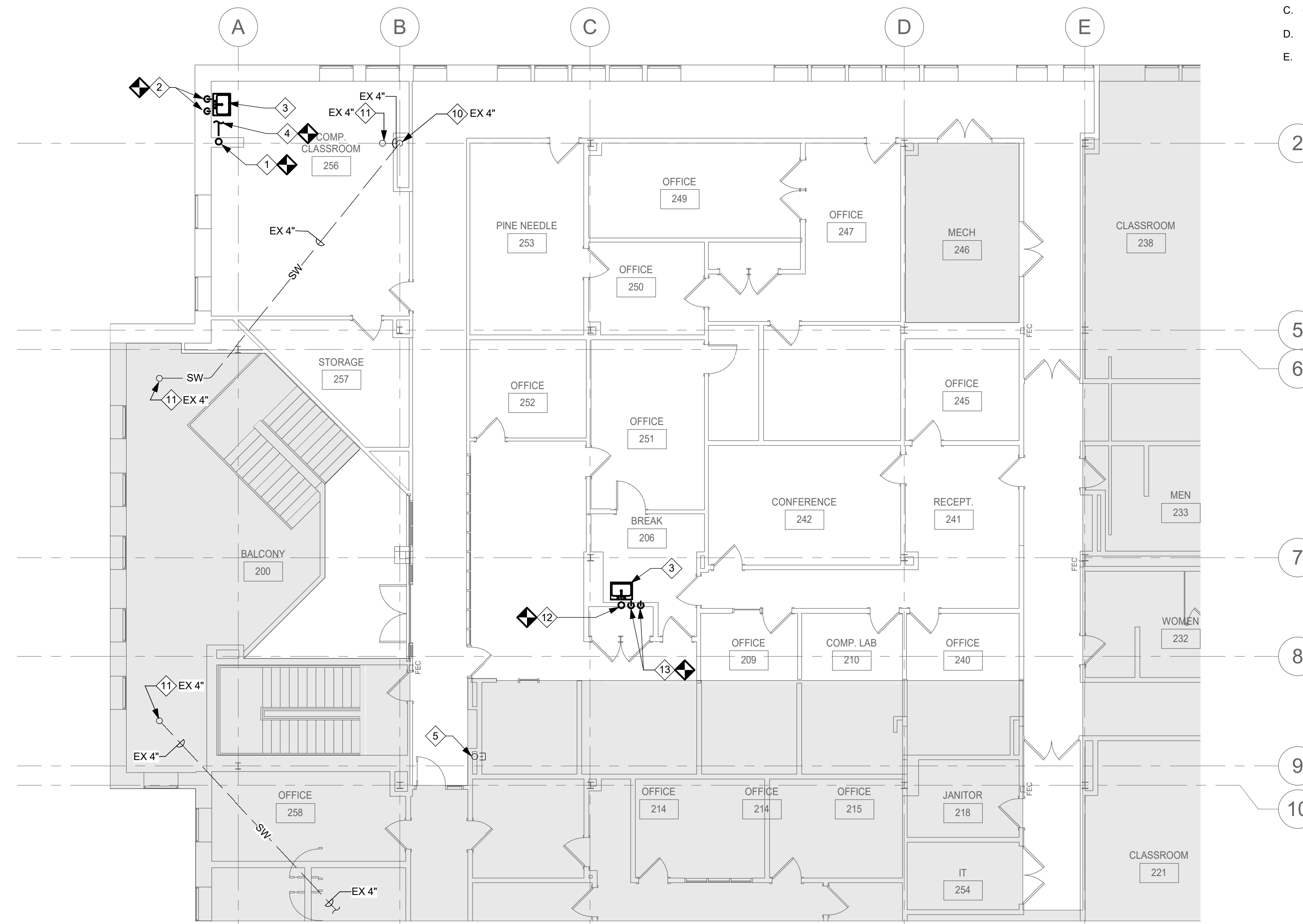
**DRAWING NOTES:**

- A. REFER TO DRAWING M001 FOR LEGEND, ABBREVIATIONS AND DRAWING CONVENTIONS.
- B. EXISTING CONDITIONS SHOWN ARE BASED ON LIMITED FIELD SURVEY AND EXISTING DOCUMENTATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS, INDICATED OR OTHERWISE.
- C. COORDINATE ALL DEMOLITION WORK WITH NEW WORK CONSTRUCTION.
- D. UNLESS OTHERWISE NOTED, PIPING SHOWN IS CONCEALED ABOVE CEILING.
- E. REFER TO SHEET G102, M701, AND M702 FOR SPECIFICATIONS ON GENERAL CONDITIONS, INSTALLATION REQUIREMENTS, CUTTING AND PATCHING, SLEEVES, AND ADDITIONAL INFORMATION.

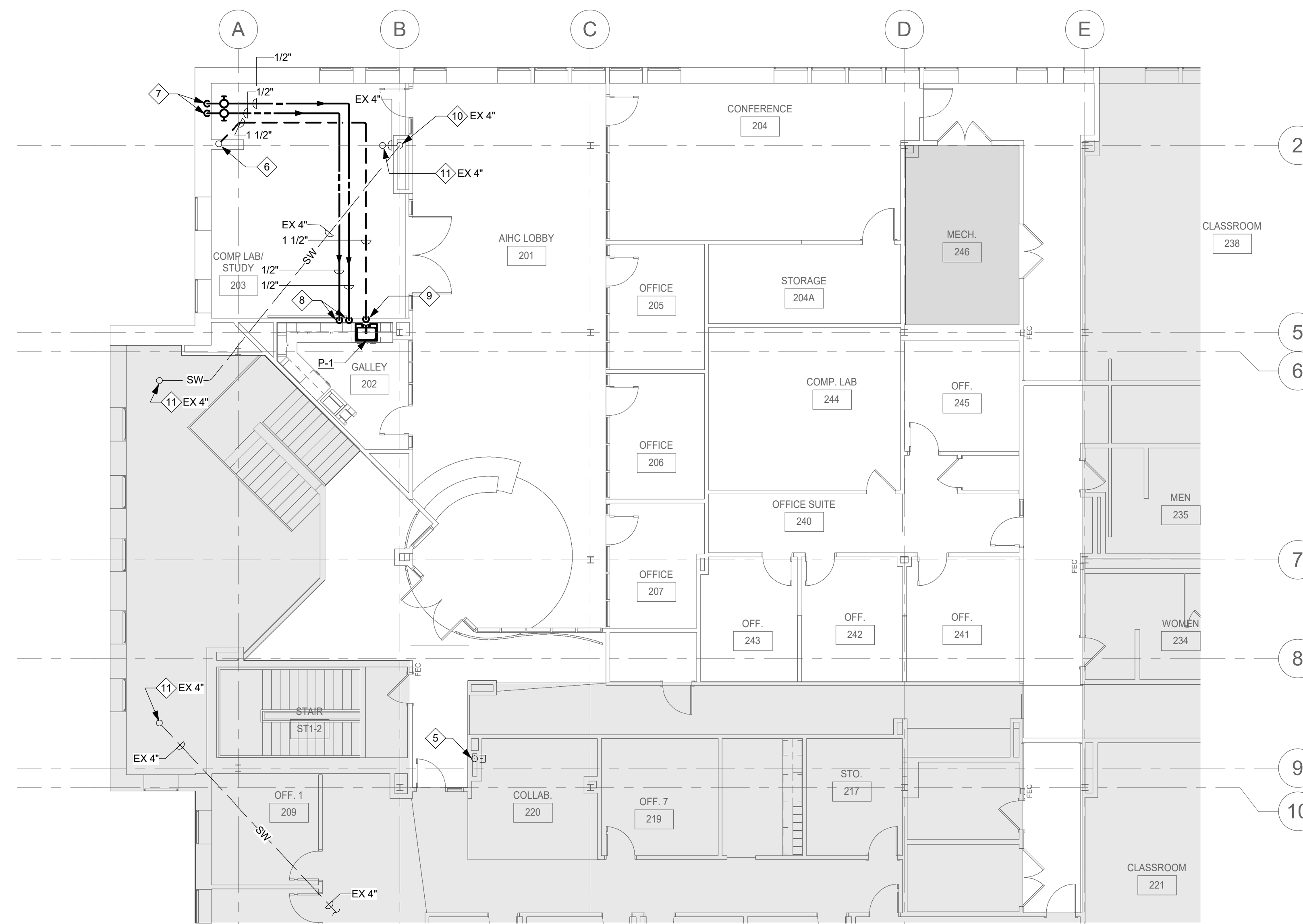
**SPECIAL NOTES:**

- 1 EX 2" SAN FROM FIXTURE DOWN THROUGH FLOOR SLAB. 2" VP DOWN TO EXISTING SAN AND UP TO EX 2" VTR.
- 2 REMOVE EXISTING 1/2" HW AND 1/2" CW FROM FIXTURE AND DOWN TO APPROXIMATELY 18" AFF.
- 3 REMOVE EXISTING COUNTER MOUNTED SINK, FAUCET, AND ALL APPURTENANCES.
- 4 RX 1 1/2" SAN FROM FIXTURE TO EX 2" SAN RISER. CAP SANITARY AT CONNECTION TO RISER.
- 5 EX 3" VP DOWN THROUGH FLOOR SLAB AND UP TO EX 3" VTR.
- 6 EX 2" SAN FROM FIXTURE DOWN THROUGH FLOOR SLAB. 2" VP DOWN TO EXISTING SAN AND UP TO EX 2" VTR.
- 7 EXISTING 1/2" HW AND 1/2" CW DOWN THROUGH FLOOR SLAB. CONNECT NEW 1/2" HW AND CW TO EXISTING PIPING AND EXTEND ABOVE CEILING.
- 8 1/2" HW AND CW DOWN IN WALL TO FIXTURE(S).
- 9 1 1/2" SAN FROM FIXTURE DOWN THROUGH FLOOR SLAB. CONNECT 1 1/2" SAN TO EX 2" SAN FROM EXISTING SINK LOCATION IN FIRST FLOOR CEILING.
- 10 EX SW DOWN THROUGH FLOOR SLAB.
- 11 EX SW UP TO EX ROOF DRAIN.
- 12 RX 2" SAN FROM FIXTURE DOWN THROUGH FLOOR SLAB. CAP EX 2" SAN IN CEILING SPACE BELOW, AT 2" SAN MAIN. RX 2" VP UP TO EX 2" VTR. CAP EX VTR 18" BELOW ROOF.
- 13 REMOVE EXISTING 1/2" HW AND 1/2" CW FROM FIXTURE AND DOWN THROUGH FLOOR SLAB, BACK TO MAIN. CAP EX 1/2" HW AND EX 1/2" CW IN CEILING SPACE BELOW, AT MAIN.

PLUMBING FIXTURE SCHEDULE						
NOTES:						
1. BASIS OF DESIGN: FIXTURE, JUST MODEL NO. SL-ADA-2131-A-GR, FAUCET, CHICAGO MODEL NO. 786-GN8AE35ABCP						
DESIG	DESCRIPTION	WASTE	WATER	ROUGH-IN CONNECTION (IN)	REMARKS	
P-1	BREAKROOM SINK	2	2	1 1/2"   1 1/2"   1/2"   1/2"	COUNTER MOUNTED, BARRIER FREE, STAINLESS STEEL, MANUAL FAUCET, 1.5 GPM; NOTE 1	



1 LEVEL 2 - FLOOR PLAN - PLUMBING - DEMOLITION  
1/8" = 1'-0"



2 LEVEL 2 - FLOOR PLAN - PLUMBING - NEW WORK  
1/8" = 1'-0"



1/10/2022



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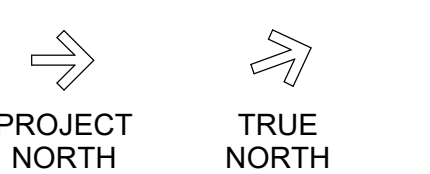
SCO ID#: 21-23067-01A

TAG	DESCRIPTION	DATE

Project: 21PEM587  
Drawn By: CJS  
Checked By: SAG  
Date: 1/10/2022

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**FLOOR PLANS -  
PLUMBING  
DEMOLITION AND  
NEW WORK**



**BID DOCUMENTS**

**P101**



**DRAWING NOTES:**

- A. REFER TO DRAWING M001 FOR LEGEND, ABBREVIATIONS AND DRAWING CONVENTIONS.
- B. EXISTING CONDITIONS SHOWN ARE BASED ON LIMITED FIELD SURVEY AND EXISTING DOCUMENTATION. FIRE PROTECTION PIPING SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS, INDICATED OR OTHERWISE.
- C. COORDINATE ALL DEMOLITION WORK WITH NEW WORK CONSTRUCTION.
- D. UNLESS OTHERWISE NOTED, PIPING SHOWN IS CONCEALED ABOVE CEILING.
- E. REFER TO SHEET G102 M701 AND M702 FOR SPECIFICATIONS ON GENERAL CONDITIONS, INSTALLATION REQUIREMENTS, CUTTING AND PATCHING, SLEEVES, AND ADDITIONAL INFORMATION.

**SPECIAL NOTES:**

- 1. REMOVE ALL EXISTING WET PIPE SPRINKLER HEADS AND EXISTING BRANCH PIPING (NOT SHOWN) IN THIS AREA. AS REQUIRED, REMOVE ALL CPVC BRANCH PIPING (NOT SHOWN) BACK TO STEEL MAINS, AS SHOWN. COORDINATE ALL DEMOLITION WORK WITH NEW WORK PLANS. SHUTDOWN OF EXISTING WET PIPE FIRE PROTECTION SYSTEM MUST BE COORDINATED WITH OWNER.
- 2. MODIFY EXISTING HYDRAULICALLY DESIGNED WET PIPE SPRINKLER SYSTEM PER NFPA 13 AND/OR NORTH CAROLINA OFFICE OF STATE FIRE MARSHAL. THIS AREA SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP I OCCUPANCY AS REQUIRED IN NFPA 13. HYDRAULIC CALCULATIONS SHALL BE PERFORMED TO INSURE THAT A DENSITY OF 0.15 GPM/SQ.FT. OVER THE MOST REMOTE 1500 SQ.FT. SHALL BE AVAILABLE, WITH A 250 GPM HOSE STREAM ALLOWANCE. COVERAGE SHALL NOT EXCEED 130 SQUARE FEET PER HEAD. CALCULATIONS SHALL BE BASED ON A FIRE HYDRANT FLOW TEST WITHIN THE PAST 12 MONTHS. PROVIDE A PIPING PLAN INDICATING PIPE FROM MOST REMOTE AREA TO TEST HYDRANT. MAXIMUM SPRINKLER HEAD SPACING SHALL NOT EXCEED 15 FT. FIRE PROTECTION PIPING IS SHOWN FOR COORDINATION PURPOSES ONLY. PROVIDE SPRINKLER HEADS AND PIPING TO ACCOMMODATE LIGHTS, DUCTS, ETC. SO THAT ADEQUATE COVERAGE IS PROVIDED FOR THE RENOVATED AREA. PROVIDE ONLY NEW SPRINKLER HEADS, RELOCATING EXISTING SPRINKLER HEADS IS NOT PERMITTED.
- 3. REMOVE EXISTING 3" SPRINKLER MAIN TO COORDINATE WITH NEW HIGHER CEILINGS.
- 4. PROVIDE NEW 3" SPRINKLER MAIN LOCATED ABOVE NEW CEILINGS. CONNECT TO EXISTING LOWER SECTIONS OF SPRINKLER MAIN AT APPROXIMATE LOCATIONS INDICATED.

**UNCP - OLD MAIN - AHIC RENOVATION**

**FIRE PROTECTION SPECIFICATIONS**

- 1. AUTOMATIC SPRINKLER SYSTEM
  - A. THE CONTRACTOR SHALL PROVIDE OR MODIFY THE EXISTING WET PIPE SPRINKLER SYSTEM WHERE REQUIRED IN ALL AREAS TO BE CONSTRUCTED/RENOVATED UNDER THIS PROJECT.
  - (1) THE CONTRACTOR SHALL PROVIDE A NEW WET PIPE SPRINKLER/STANDPIPE SYSTEM AS REQUIRED IN AREAS INDICATED.
  - (2) CONTRACTOR SHALL PROVIDE CONNECTIONS TO EXISTING FIRE PROTECTION PIPING, CONNECTIONS TO EXISTING PIPING SHALL BE VERIFIED AND APPROVED BY THE UNIVERSITY AND NORTH CAROLINA STATE FIRE MARSHAL.
  - (3) DESIGNATED AREAS SHALL BE FULLY SPRINKLED AS DEFINED HEREIN, INDICATED ON THE FLOOR PLANS AND AS REQUIRED BY CODE. THE PIPING LOCATIONS, IF SHOWN, ON THE FLOOR PLANS ARE DIAGNOSTIC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE COMPLETE SPRINKLED SYSTEMS AND ALL RELATED WORK, INCLUDING DRAIN AND TEST PIPING, ETC., IN COMPLETE COMPLIANCE WITH ALL APPLICABLE SECTIONS OF NFPA, SUBMIT SHOP DRAWINGS AND CALCULATIONS TO THE OWNER FOR REVIEW AND FINAL APPROVAL.
  - (4) SYSTEM SHALL BE APPROVED AND COMPLY WITH ALL ORGANIZATIONS HAVING JURISDICTION. SYSTEM DESIGN DOCUMENTS SHALL BE AND APPROVED BY THE OWNER'S REPRESENTATIVE AND FIRE MARSHAL PRIOR TO INSTALLATION.
  - (5) SUBMITTALS:
    - (a) THE INSTALLING CONTRACTOR SHALL SUBMIT THE FOLLOWING DESIGN INFORMATION AND DRAWINGS FOR APPROVAL PRIOR TO COMMENCING WORK ON THIS PROJECT.
      - (i) INSTALLATION LAYOUT DRAWINGS DETAILING THE QUANTITY, LOCATION, AND MARKING OF ALL SYSTEM COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: PIPING MATERIALS, INCLUDING DIELECTRIC FITTINGS AND SPRINKLER SPECIALLY FITTINGS.
      - (ii) PIPE HANGERS AND SUPPORTS.
      - (iii) VALVES, INCLUDING LISTED FIRE PROTECTION VALVES AND SPECIALTY VALVES AND TRIM.
      - (iv) SPRINKLERS, ESCUTCHEONS, AND GUARDS INCLUDE SPRINKLER FLOW CHARACTERISTICS, MOUNTING, FINISH, AND OTHER PERTINENT DATA.
    - (b) THE INSTALLER SHALL HAVE BEEN ENGAGED IN THE SPRINKLER INDUSTRY FOR A MINIMUM OF FIVE (5) YEARS OR SHALL DEMONSTRATE TO THE SATISFACTION OF THE OWNER, DURING THE BIDDING PERIOD, THEIR CAPABILITY IN SUCCESSFULLY COMPLETING THE FIRE PROTECTION SYSTEM.
    - (c) THE SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY DESIGNED IN ACCORDANCE WITH NFPA 13. THE AREAS SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP I OCCUPANCY REQUIREMENTS AS REQUIRED IN NFPA 13. HYDRAULIC CALCULATIONS SHALL BE PERFORMED TO ENSURE THAT A DENSITY OF 0.15 GPM/SQ.FT. OVER THE MOST REMOTE 1500 SQ.FT. SHALL BE AVAILABLE, WITH A 250 GPM HOSE STREAM ALLOWANCE. COVERAGE SHALL NOT EXCEED 130 SQUARE FEET PER HEAD. MAXIMUM SPRINKLER HEAD SPACING SHALL NOT EXCEED 15 FT. VERIFY DESIGN AND DESIGN REVIEW WITH UNIVERSITY FIRE MARSHAL'S OFFICE DURING THE BID PERIOD AND CONFORM WITH UNIVERSITY FIRE MARSHAL'S GUIDELINES AND RECOMMENDATIONS PRIOR TO ANY LAYOUT OR DESIGN WORK.
    - (d) INSTALLER'S RESPONSIBILITIES INCLUDE DESIGNING, FABRICATING, AND INSTALLING FIRE SUPPRESSION SYSTEMS AND PROVIDING PROFESSIONAL ENGINEERING SERVICES NEEDED TO ASSUME ENGINEERING RESPONSIBILITY. BASE CALCULATIONS ON RESULTS OF FIRE-HYDRANT FLOW TEST. FLOW TESTS SHALL NOT BE OLDER THAN 12 MONTHS.
    - (e) ENGINEERING RESPONSIBILITY. PREPARATION OF WORKING PLANS, CALCULATIONS, AND FIELD TEST REPORTS BY A QUALIFIED PROFESSIONAL FIRE PROTECTION ENGINEER OR NEET LEVEL, BY TESTIFYING, THE DESIGNER, THE SEAL OR P.E. STAMP SHALL BE PRESENT ON EACH SHEET OF THE WORKING DRAWINGS.
  - (6) PROVIDE NEW SPRINKLER HEADS AND BRANCH PIPING BELOW THE NEW DUCTWORK, OBSTRUCTIONS, ETC., AS REQUIRED BY CODE FOR PROPER COVERAGE.

**PRODUCTS**

- (1) SPRINKLERS SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND/OR F.M. GLOBAL APPROVED. ONLY NEW SPRINKLERS SHALL BE USED. SPRINKLERS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH NFPA CODES, AND PROPERLY COORDINATED WITH OTHER WORK. THE CORRECT TYPE AND TEMPERATURE RATING OF SPRINKLER HEADS SHALL BE USED IN EVERY LOCATION.
- (2) SPRINKLER HEADS SHALL BE PROVIDED AS HEREIN SPECIFIED: IN FINISHED CEILING SPACES, PROVIDE VIKING MICROFAST, OR EQUAL, FULLY RECESSED, LOW PROFILE PERPEND TYPE HEADS WITH MODEL E-1, FLUSH SCREWS, ONE-PIECE ADJUSTABLE ESCUTCHEON CEILING PLATE, ORDINARY TEMPERATURE RATING, ENTIRE ASSEMBLY SHALL BE BAKED WHITE ENAMEL. IN AREAS WITH EXPOSED STRUCTURE (NO CEILINGS), PROVIDE VIKING MICROFAST BRASS SPRINKLER HEADS.
- (3) SPRINKLER HEADS THAT MAY BE SUBJECT TO MECHANICAL DAMAGE DUE TO THEIR LOCATION (LOW HANGING SPRINKLER HEADS IN CORRIDORS, STORAGE ROOMS, OR UNDER DUCTS) SHALL BE PROVIDED WITH APPROVED GUARDS, VIKING MODEL A-1 OR APPROVED EQUAL.
- (4) PIPE HANGERS AND SUPPORTS SHALL BE DETAILED ON THE SHOP DRAWINGS AND SHALL BE LISTED TYPE IN ACCORDANCE WITH NFPA 13 STANDARDS AND AS HEREIN SPECIFIED. HANGER ATTACHMENTS TO ROOF SHALL BE GRINNELL FIGURE 228, 218 OR 229 FOR PIPES 3 INCHES AND LARGER, AND FIGURE 87 OR 88 FOR PIPES 2-1/2 INCHES AND SMALLER.
- (5) SPRINKLER SYSTEM PIPING SHALL BE AS FOLLOWS:
  - (a) FIRE PROTECTION (ABOVE GROUND - GENERALLY), STEEL PIPE, ASTM A53, A719, A135, ANSI SCH40, 40 WITH BLACK MALLEABLE IRON SCREWED FITTINGS, 175 LB (WATERS), ANSI B16.3, AND THREADED JOINTS, AMERICAN STANDARD FOR PIPE THREADED, ANSI B1.1. THREAD SEALANT SHALL BE LOCK-TITE NO. 562 WITH TEFLOK, SNOW WHITE AND HOMOGENEOUS, OR RECTORSOL NO. 5, AT CONTRACTOR'S OPTION. INTERIOR WET-PIPE SYSTEM PIPING SHALL BE ASSEMBLED WITH DUCTILE IRON ROLLED GROOVED SHORT PATTERN FITTINGS, ASTM A353, VICTALIC FIRELOCK, DESIGNED SPECIFICALLY FOR FIRE PROTECTION SYSTEMS, AND MECHANICALLY GROOVED COUPLINGS, VICTALIC IRON ANGLE AND DESIGN STYLE 02050909M WITH CHLORINATED BUTYL GRADE "E" EPDM - TYPE A GASKETS AND HEAT TREATED CARBON STEEL BOLTS AND NUTS, ASTM A193 AND A194. ALL GROOVED COUPLINGS, GASKETS AND FITTINGS SHALL BE MANUFACTURED BY THE SAME MANUFACTURER.
  - (b) AT CONTRACTOR'S OPTION, FLEXIBLE SPRINKLER DROPS SHALL BE STAINLESS STEEL TYPE 304, BRAIDED OR UN-BRAIDED FLEXIBLE TUBE WITH UNION JOINTS AND 2-INCH PLATED STEEL MALE THREADED NIPPLE OR GROMMET CONNECTIONS. CONNECTION TO BRANCH-LINE PIPING, FLEXIBLE DROP SHALL ATTACH TO THE CEILING GRID USING A ONE-PIECE OPEN GATE BRACKET. THE BRACKET SHALL ALLOW INSTALLATION BEFORE THE CEILING TILE IS IN PLACE. DROP SIZE SHALL BE 1-INCH I.D. WITH A MINIMUM 2-INCH BEND RADIUS. FLEXIBLE DROPS SHALL BE AS MANUFACTURED BY VICTALIC, VIKIFLEX SERIES OR EQUALS BY FLEXHEAD INDUSTRIES, INC. OR GATEWAY TUBING, INC.

**EXECUTION**

- (1) CONTRACTOR SHALL COORDINATE INSTALLATION OF SPRINKLER SYSTEM WITH LIGHTING FIXTURES, DUCTS, PIPING, MECHANICAL/ELECTRICAL EQUIPMENT, STRUCTURAL ELEMENTS, ACoustical TILE GRID SYSTEM AND OTHER ITEMS WHERE CONFLICTS RESULT. THEY SHALL BE RESOLVED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION AND AT NO ADDITIONAL EXPENSE TO THE OWNER. NO WORK SHALL BE STARTED UNTIL SHOP DRAWINGS ARE APPROVED BY ALL REVIEWING AGENCIES.
- (2) DURING THE COURSE OF THE NEW WORK INSTALLATION, THE CONTRACTOR AS DIRECTED BY THE GENERAL SUPERINTENDENT OR OWNER, MAY BE REQUIRED TO REMOVE, REARRANGE, OR RELOCATE EXISTING SPRINKLER PIPING OR HEADS AS NECESSARY TO SUIT THE FIELD CONDITIONS AND WORK OF OTHER TRADES. ALL WORK SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- (3) PIPE SIZES SHALL BE AS REQUIRED BY NFPA.
- (4) ALL SPRINKLER PIPING SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE WHICH MUST SUPPORT THE ADDED LOAD OF THE WATER FILLED PIPE UNDER MINIMUM OF 200 POUNDS APPLIED AT THE POINT OF HANGING IN ACCORDANCE WITH NFPA 13. NO PIPING SHALL BE SUPPORTED FROM THE ROOF DECK.
- (5) PIPING SHALL BE INSTALLED AND ARRANGED TO PROTECT IT FROM FREEZING AND CORROSION AND SHALL BE PITCHED FOR DRAINAGE. ALL PIPING AND SPRINKLER HEADS SHALL BE INSTALLED EXPOSED, EXCEPT IN AREAS WITH SUSPENDED CEILINGS WHERE PIPING SHALL BE INSTALLED CONCEALED.
- (6) DRAINS AND TEST PIPING SHALL BE FURNISHED AND INSTALLED SO THAT ALL PARTS OF THE SYSTEM MAY BE DRAINED AND TESTED PROPERLY.
- (7) SPRINKLER PIPING SHALL BE FILLED WITH WATER AND THOROUGHLY FLUSHED CLEAN OF FOREIGN MATTER AFTER ERECTION IN THE PRESENCE OF THE OWNER.
- (8) PIPING TESTS SHALL BE CONDUCTED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER. ALL PIPING SHALL BE PROVEN TIGHT. SHOULD ANY LEAKS DEVELOP, LEAKS SHALL BE REPAIRED AND THE SYSTEM RETESTED. PIPING SHALL BE HYDROSTATICALLY TESTED AT 200 PSIG FOR TWO HOURS. PERFORM ADDITIONAL TEST AS REQUIRED BY NFPA OR OTHER ORGANIZATIONS HAVING JURISDICTION.
- (9) INSTALLATION SHALL BE IN ACCORDANCE WITH ALL NFPA STANDARDS, NORTH CAROLINA STATE FIRE CODE, UNIVERSITY FIRE AND SAFETY REGULATIONS, AND OTHER ORGANIZATIONS HAVING JURISDICTION.
- (10) VERIFICATION OF DIMENSIONS: THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL DETAILS OF THE WORK AND VERIFY ALL DIMENSIONS IN THE FIELD BEFORE THE WORK BEGINS.
- (11) SERVICE: THE CONTRACTOR SHALL BE CAPABLE OF RESPONDING WITHIN 24 HOURS OF NOTIFICATION FOR THE EQUIPMENT INSTALLED AND SHALL RENDER SATISFACTORY SERVICE TO THE EQUIPMENT ON A REGULAR AND EMERGENCY BASIS FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF CERTIFICATE OF COMPLETION AND ACCEPTANCE OF WORK.
- (12) THE CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE EFFECT THAT ALL WORK COVERED IN THE CONTRACT HAS BEEN COMPLETED AND TESTED IN ACCORDANCE WITH THE APPROVED SPECIFICATIONS AND PLANS. COPIES OF THE WRITTEN STATEMENT SHALL BE PROVIDED TO THE OWNER AND ANY OTHER AUTHORITY HAVING JURISDICTION.
- (13) THIS SPECIFICATION IS NOT MEANT TO COVER ALL THE FIRE PROTECTION RESTRICTIONS IMPOSED BY FEDERAL, STATE OR LOCAL CODES OR DEPARTMENTS, AND IT SHALL BE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO PROVIDE A SYSTEM THAT IS ACCEPTABLE TO ALL GOVERNING AUTHORITIES INVOLVED.



1/10/2022



**UNC PEMBROKE  
AMERICAN INDIAN  
HERITAGE  
CENTER**

SCO ID#: 21-23067-01A

TAG	DESCRIPTION	DATE
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Project: 21PEM587

Drawn By: CJS

Checked By: SJS

Date: 1/10/2022

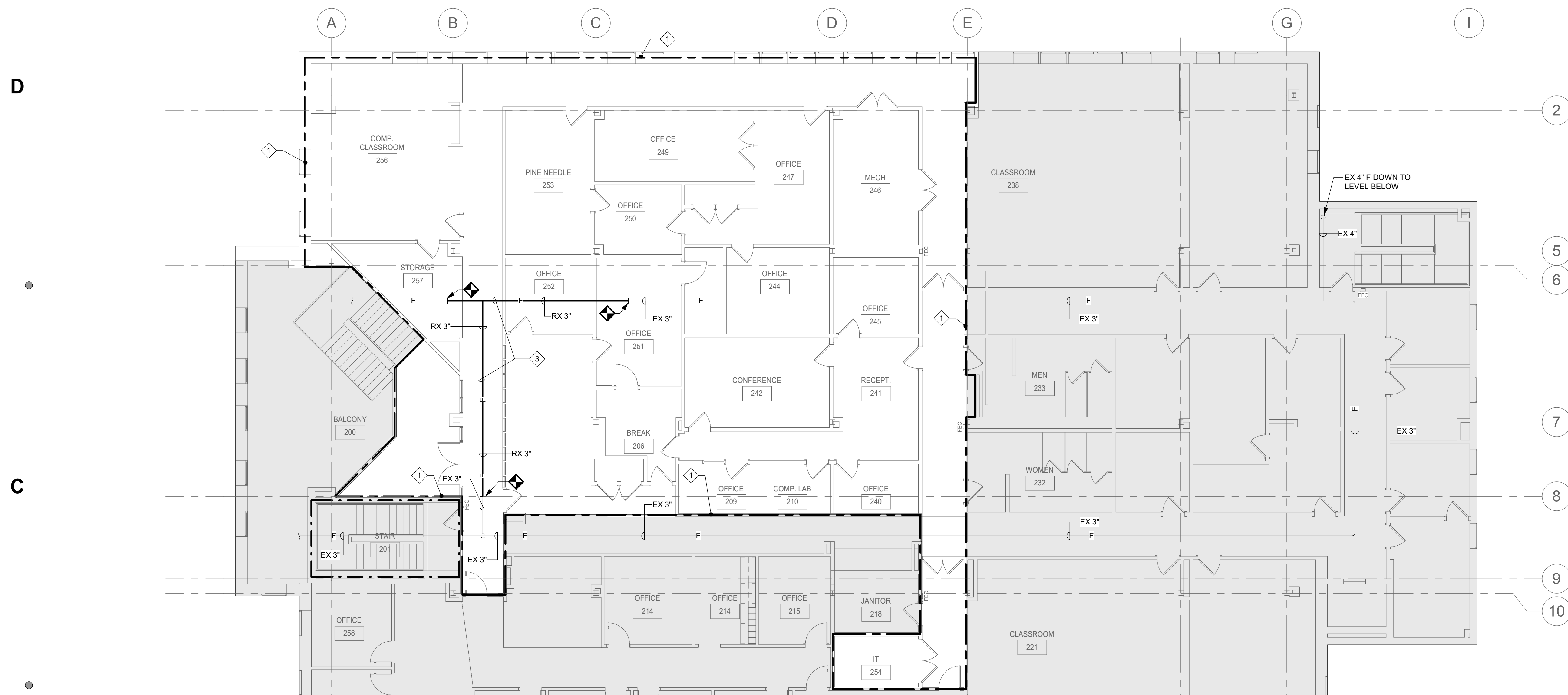
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**FLOOR PLANS -  
FIRE  
PROTECTION  
DEMOLITION AND  
NEW WORK**



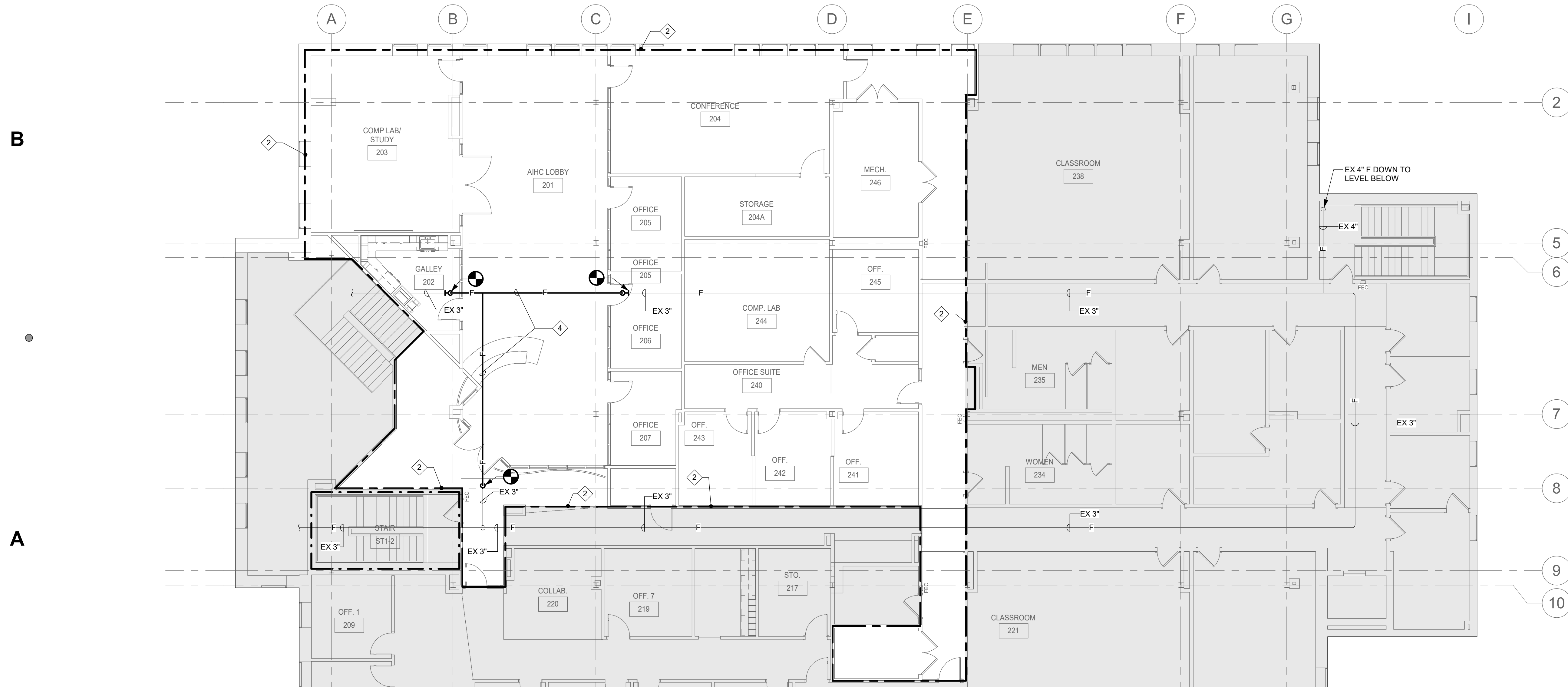
**BID DOCUMENTS**

**F101**



**LEVEL 2 - FLOOR PLAN - FIRE PROTECTION - DEMOLITION**

1  
F101  
1/8" = 1'-0"



**LEVEL 2 - FLOOR PLAN - FIRE PROTECTION - NEW WORK**

2  
F101  
1/8" = 1'-0"



