

CANTON POLICE STATION RENO
CANTON, NORTH CAROLINA
CONSTRUCTION DOCUMENTS
JULY 7, 2025



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JULY 7, 2025



CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
Date: JULY 7, 2025

COVER SHEET

CS

Civil
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Plumbing
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Mechanical
RN&M Engineers
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Electrical
RN&M Engineers
390 Main Street
Canton, NC 28716
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D

A/C	AIR CONDITION	EXH	EXHAUST	MO	MASONRY OPENING
A/C UNIT	AIR CONDITIONING UNIT	EXIST	EXISTING	MR	MOISTURE RESISTANT GWB
AB	ANCHOR BOLT	EXP	EXPANSION	MRB	MARBLE BASE
ACC	ACCESSIBLE	EXP BT	EXPANSION BOLT	MRF	MARBLE FLOOR
ACC FL	ACCESSIBLE FLOOR	EXT	EXTERIOR	MRT	MARBLE THRESHOLD
ACOUS	ACOUSTICAL	F/F	FINISH TO FINISH	MT	METAL THRESHOLD
ACS PNL	ACCESS PANEL	FA	FIRE ALARM	MTD	MOUNTED
ACT	ACOUSTICAL CEILING TILE	FAB	FABRIC	SPKR	SPEAKER
AD	AREA DRAIN	FACTY FIN	FACTORY FINISH	SPKLR	SPEAKER
ADDM	ADDENDUM	FD	FLOOR DRAIN	SQ	SQUARE
ADH	ADHESIVE	FDN	FOUNDATION	SS	STAINLESS STEEL
ADJ	ADJACENT; ADJUSTABLE	FE	FIRE EXTINGUISHER	SV SK	SERVICE SINK
AG	AGGREGATE	FEC	FIRE EXTINGUISHER CABINET	SSM	SOLID SURFACE MATERIAL
AGH	AIR HANDLING UNIT	FEE	FINISH FLOOR ELEVATION	ST	STONE
ALT	ALTERNATE	FHC	FIRE HOSE CABINET	STA	STONE TRANSMISSION COEFFICIENT
ALUM	ALUMINUM	FIN	FINISH	STC	STANDARD
ANOD	ANODIZED	FLASH	FLASHING	STL	STEEL
APPD	APPROVED	FLD	FOLDING	STL LNTL	STEEL LINTEL
APPROX	APPROXIMATE (LY)	FLEX	FLEXIBLE	STN	STAIN
ARCH	ARCHITECT (URAL)	FLG	FLOORING	STOR	STORAGE
ASPH	ASPHALT	FLR	FLOOR	STRUC T	STRUCTURAL
AUTO	AUTOMATIC	FLUOR	FLUORESCENT	SURR	SURROUND
AV	AUDIO VISUAL	FOC	FACE OF CONCRETE; CURB	SUSP	SUSPENDED
		FOF	FACE OF FINISH	SV	SHEET VINYL
BBD	BASEBOARD	FOM	FACE OF MASONRY	SVCE	SERVICE
BD	BOARD	FOS	FACE OF STUDS	SW	SIDEWALK; SOUTHWEST; SWITCH
BF	BOTH FACES	FOW	FACE OF WALL	SYMM	SYMMETRICAL
BTUM	BITUMINOUS	FP	FIRE PROTECTION; FIREPROOF	SYS	SYSTEM
BKG	BACKING	FPL	FIREPLACE		
BLDG	BUILDING	FRP	FIBERGLASS REINFORCED PLASTIC;	T	TREAD
BLKG	BLOCKING	FRR	FIBER REINFORCED POLYESTER	T&B	TOP AND BOTTOM
BM	BEAM	FRZ	FIRE RESISTANCE RATED	T&B	TONGUE AND GROOVE
BOT	BOTTOM	FRZ	FIRE RESISTANT TREATED WOOD	TB	TOWEL BAR
B-ROD	BACKER ROD	FLR SK	FLOOR SINK	TD	TRENCH DRAIN
BR	BEDROOM	FT	FLOOR TEE	TEL	TELEPHONE
BRG	BRACING	FTT	FIRE TREATANT TREATED	TEMP	TEMPORARY
BRG	BEARING	FRT	FIRE TREATANT TREATED	OPR	OPERABLE
BRZ	BRONZE	FTG	FOOTING	OPT	OPTIONAL
BS	BOTH SIDES	FURG	FURNISHING	ORD	OVERHEAD ROOF DRAIN
BSMT	BASEMENT	FUT	FUTURE	TOB	TOP OF BEAM
BTWN	BETWEEN	FXT	FIXTURE	THRES	THRESHOLD
				TOT	TOP OF CONCRETE; TOP OF CURB
CAB	CABINET	G	GROUND	TOV	TOP OF MASONRY
CAB	CATCH BASIN	GA	GAGE (GAUGE)	TOP	TOP OF PARAPET;
CB	CEMENT/ITITOUS (BACKER) BOARD	GALV	GALVANIZED	TOT	TOP OF SLAB
CEM	CEMENT	GB	GRAB BAR	TOV	TOP OF TRUSS
CF/CI	CONTRACTOR FURNISHED/	GFRG	GLASS FIBER REINFORCED CONCRETE	TP	TOP OF WALL
CF/CI	CONTRACTOR INSTALLED	GFRG	GLASS FIBER REINFORCED GYPSUM	TP	TOILET PARTITION
CF/CI	CONTRACTOR FURNISHED/	GFRP	GLASS FIBER REINFORCED PLASTIC	TRANS	TRANSOM; TRANSPARENT
	OWNER INSTALLED	GFRP	GLASS FIBER REINFORCED PLASTER	TRTD	TREATED
CFA	COLD FLUID APPLIED	GKT	GASKET	TS	TUBE STEEL
CLFG	COUNTERFLASHING	GL	GLASS	TV	TELEVISION
CG	CORNER GUARD	GL BLK	GLASS BLOCK	TYP	TYPICAL
CI	CAST IRON	GLU LAM	GLUE-LAMINATED WOOD	UC	UNDERCUT
CIP	CAST-IN-PLACE	GLZ	GLAZING	UNFIN	UNFINISHED
CJ	CONTROL JOINT; CONSTRUCTION JOINT	GR	GRANITE	UNO	UNLESS NOTED OTHERWISE
CL	CENTERLINE	GYP	GYPSUM	URNAL	URNAL
CLG	CEILING	GYP BD	GYPSUM BOARD		
CLO	CLOSET	GYP PLAS	GYPSUM PLASTER	PNT	PAIN
CLR	CLEAR (ANCE)	H	HIGH	POLY	POLYETHYLENE (PLASTIC)
CMU	CONCRETE MASONRY UNIT	H	HIGH	PORC	PORCELAIN
CO	CLEANOUT; CASED OPENING	HB	HOBSE BIBB	PRE	PREFABRICATED
		HC	HANDICAP; HOLLOW CORE	PREFMD	PREFORMED
COL	COLUMN	HDBD	HARDBOARD	PROP	PROPERTY
CONC	CONCRETE	HDW	HARDWARE	PSF	POUNDS PER SQUARE FOOT
COND	CONDITION	HDWD	HARDWOOD	PSI	POUNDS PER SQUARE INCH
CONST R	CONSTRUCTION	HM	HOLLOW METAL	PT	POST-TENSIONED
CONT	CONTINUE	HR	HOUR	PTD	PAPER TOWEL DISPENSER
CONTR	CONTRACTOR	HT	HEIGHT	PRT	PRESERVATIVE TREATED
COORD	COORDINATE	HTG	HEATING	PTN	PARTITION
CORR	CORRIDOR	HVAC	HEATING/VENTILATION/AIR CONDITIONING	PVG	PAVING
CPT	CARPET			QT	QUARRY TILE
CST	CAST STONE			QTB	QUARRY TILE BASE
CT	CERAMIC TILE			QTY	QUANTITY
CTG	COATING	HW	HOT WATER		
CU FT	CUBIC FOOT	ID	INSIDE DIAMETER	R	RADIUS; RISER
CU YD	CUBIC YARD	IN	INCH	RB	RESILIENT BASE
CW	COLD WATER	INCL	INCLUDED	REF	REFLECTED CEILING PLAN
CSWK	CASEWORK	INSUL	INSULATION	RD	ROOF DRAIN
		INT	INTERIOR	REBAR	REINFORCING STEEL BARS
D	DEEP; DEPTH	INTM	INTERMEDIATE	REQD	REQUIRED
DBL	DOUBLE	INV	INVERT	REIN	REINFORCE
DD	DECK DRAIN	JAN	JANITOR	REM	REMOVABLE
DEMO	DEMOLITION	JAN CLO	JANITOR'S CLOSET	REQD	REQUIRED
DEPT	DEPARTMENT	J-BOX	JUNCTION BOX	REQMT	REQUIREMENT
DET	DETAIL	JST	JOIST	RESIL	RESILIENT
DF	DRINKING FOUNTAIN	JT	JOINT	RIG INS	RIGID INSULATION
DH	DOUBLE HUNG	KIT	KITCHEN	RF	RESILIENT FLOORING
DIA	DIAMETER	L	ANGLE	RFP	ROOFING
DIAG	DIAGONAL	LG	LENGTH	RH	RIGHT HAND
DM	DIMENSION	LAD	LADDER	THRU	THROUGH
DN	DOWN	LAV	LAVATORY	RLG	RAILING
DMPF	DAMP-PROOFING	LBS	POUNDS	RM	ROOM
DMPR	DAMP-PROOFING	LBL	LABEL	RND	ROUND
DPTN	DEMOUNTABLE PARTITION	LF	LINEL FOOT (FEET)	RO	ROUGH OPENING
DR	DOOR	LH	LEFT HAND	ROW	RIGHT OF WAY
DS	DOWNSPOUT	LNO	LINOLEUM	RS	ROUGH SAWN
DSP	DRY STANDPIPE	LL	LIVE LOAD	RVS	REVERSE; REVERSE SIDE
DW	DISHWASHER	LMST	LIMESTONE	RWD	REDWOOD
DWG	DRAWING	LOC	LOCATION	S	SOUTH
DWR	DRAWER	LPT	LOW POINT	SC	SOLID CORE
		LR	LIVING ROOM	SCD	SEAT COVER DISPENSER
E	EAST	LVR	LOUVER	SCHD	SCHEDULE
EA	EACH	MAS	MASONRY	STN CONC	STAINED CONCRETE
EFS	EXTERIOR INSULATION FINISH SYSTEM	MATL	MATERIAL	SCP	SCURPER
EJ	EXPANSION JOINT	MAX	MAXIMUM	SD	SHOWER CURTAIN ROD
EL	ELEVATION	MBR	MASTER BEDROOM	SEAL CON	SEALED CONCRETE
ELAST	ELASTOMETRIC COATING	MECH	MECHANICAL	SEC	SECTION
CTG	ELECTRIC	MED	MEDIUM	SF	SQUARE FOOT (FEET)
ELEC	ELECTRICAL	MEMB	MEMBRANE	FM	FACTORY MUTUAL
ELEV	ELEVATOR	MEZZ	MEZZANINE	ICC	INTERNATIONAL CODE COUNCIL
EMER	EMERGENCY	MTL	METAL	NAMM	NATIONAL ASSOCIATION OF METAL MANUFACTURERS
ENCL	ENCLOSURE	MFR	MANUFACTURER	NBC	NORTH CAROLINA STATE BUILDING CODE
ENCL	ENCLOSURE	MH	MANHOLE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
EOS	EDGE OF SLAB	MIN	MINIMUM; MINUTE	NRC	NATIONAL ROOFING CONTRACTORS ASSOCIATION
EP	ELECTRICAL PANEL (PANELBOARD)	MIR	MIRROR	PCI	PRECAST/PRESTRESSED CONCRETE INSTITUTE
		MLDG	MISCELLANEOUS	SMACN	SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION
EO	EQUAL			UL	UNDERWRITERS LABORATORIES
EQUIP	EQUIPMENT				
EW	EACH WAY				
EW	ELECTRIC WATER COOLER				

B

A

GENERAL CONDITIONS

- SEE PROJECT SPECIFICATION MANUAL FOR GENERAL AND SUPPLEMENTARY CONDITIONS.
- IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ARCHITECT FOR A DECISION BEFORE PROCEEDING.
- THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, REFER UNCERTAINTIES TO ARCHITECT FOR A DECISION BEFORE PROCEEDING.

DIMENSIONS

- ALL DIMENSIONS SHALL BE FROM THE FACE OF FINISH SURFACES WITH THE EXCEPTION OF ANYTHING BEING DIMENSIONED FROM COLUMN LINES OR NOTED OTHERWISE.
- ALIGNMENT INDICATION SHALL BE FINISHED FACE OF WALL TO FINISHED FACE OF PARTITION OR WALL UNLESS NOTED OTHERWISE.
- PARTITION ANGLES ARE PARALLEL, PERPENDICULAR OR 45 DEGREE ANGLES TO BUILDING PERIMETER UNLESS NOTED OTHERWISE.
- CENTERLINE DIMENSIONS SHALL BE MEASURED FROM CENTERLINE OF ASSEMBLY, FIXTURE OR DEVICE.
- CENTERLINE INDICATION AT PARTITIONS ABUTTING BUILDING ELEMENTS (MULLIONS, COLUMNS, OR PILASTERS), SHALL ALIGN CENTER OF PARTITION ASSEMBLY WITH CENTER OF ELEMENT UNLESS NOTED OTHERWISE.
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM ARCHITECT.
- LOCATE DOOR FRAME 4" MIN. FROM ADJACENT WALL, UNLESS NOTED OTHERWISE.

PARTITIONS

- ALIGNMENT OF PARTITIONS WITH NEW OR EXISTING CONSTRUCTION SHALL PROVIDE A SMOOTH, UNINTERRUPTED FINISH SURFACE.
- PROVIDE REQUIRED ACCESS PANELS IN PARTITIONS FOR MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS. LOCATION OF ACCESS PANEL SHALL BE VERIFIED WITH ARCHITECT PRIOR TO CONSTRUCTION.
- PENETRATION OF PARTITIONS FOR MECHANICAL SYSTEMS SHALL BE HERMETICALLY SEALED. PENETRATIONS WITHIN RATED PARTITION ASSEMBLIES SHALL PROVIDE FOR REQUIRED DAMPERING DEVICES, SLEEVES, AND FIREPROOFING WITH APPROVED RATINGS.
- G. TO PROVIDE SOLID WOOD BLOCKING (OR STEEL PLATE BLOCKING WHEN METAL STUDS ARE USED) AS REQUIRED FOR ALL TOILET ROOM ACCESSORIES, CABINETS AND INSTALLATION OF GRAB BARS, TV / AV EQUIPMENT PER APPLICABLE ACCESSIBILITY CODES.
- CABINETS SHALL MEET ALL APPLICABLE ACCESSIBILITY CODES.
- ALL FINISH AND COLOR SELECTIONS SHALL BE APPROVED BY OWNER.
- CENTER DOOR ON LENGTH OF PARTITION. IF THE TWO SIDES OF PARTITION ARE UNEQUAL, THE DOOR TAG WILL BE ON THE SIDE THAT APPLIES.

CEILING

- MINIMUM HEIGHT OF OVERHEAD OBSTRUCTIONS ALONG AN ACCESSIBLE ROUTE SHALL BE MAINTAINED IN ACCORDANCE WITH APPLICABLE CODES.
- PROVIDE REQUIRED ACCESS PANELS IN CEILING FOR MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS. LOCATIONS OF ACCESS PANEL SHALL BE VERIFIED WITH ARCHITECT PRIOR TO CONSTRUCTION.
- PENETRATIONS AND OPENINGS IN CEILING FOR FIXTURES OR MECHANICAL SYSTEM PATHS AND REGISTERS SHALL BE PRECISELY CUT FOR INSTALLED ITEMS WITH EDGES TO BE CONCEALED BY MOUNTING TRIM OR COVER. INSTALLATION OF TRIM AND COVERS SHALL BE FLUSH TO SURFACE.
- FIXTURES AND REGISTERS SHALL ALIGN SQUARE AND LEVEL WITH FINISHED CEILING.
- DO NOT USE DUCTS, PIPES AND CONDUIT TO SUPPORT CEILING SYSTEM. PROVIDE BRACING AS REQUIRED BY SEISMIC ZONE.

ELECTRICAL AND COMMUNICATIONS

- ADJACENT WALL MOUNTED SINGLE DUPLEX OUTLETS SHALL BE LOCATED 6" O.C. UNLESS NOTED OTHERWISE.
- WALL MOUNTED ELECTRICAL ITEMS ON COLUMNS SHALL BE INSTALLED ON COLUMN CENTERLINE. WHERE MULTIPLE ELECTRICAL ITEMS OCCUR AT THE SAME HEIGHT, THEY SHALL BE PLACED SYMMETRICALLY ABOUT COLUMN CENTERLINE.
- FIXTURES SHALL BE INSTALLED SO THAT EDGES OF CUT-OUTS IN FINISH CAN BE CONCEALED BY MOUNTING TRIM OR COVER. INSTALLATION OF TRIM RINGS AND COVERS SHALL BE FLUSH WITH CEILING SURFACE.
- LIGHT FIXTURES SHALL BE CENTERED IN CEILING TILE OR SPACE UNLESS NOTED OTHERWISE.
- GROUPED SWITCHES SHALL BE MOUNTED WITHIN A SINGLE FACE PLATE, UNLESS NOTED OTHERWISE.
- SWITCHES SHALL BE MOUNTED AN OFFSET OF 6" TO CENTERLINE OF SWITCH FROM FRAME OR CASING OF LATCH JAMB OF DOOR, UNLESS NOTED OTHERWISE.
- ALL CONTROLS & SWITCHES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES OR AS NOTED ON DRAWINGS.

HVAC AND FIRE PROTECTION

- FIRE SUPPRESSION SUPPLY LINES SHALL BE MOUNTED TO PROVIDE CLEARANCE FOR RECESSED CEILING LIGHT FIXTURES AND EQUIPMENT.
- ALL CONTROLS & SWITCHES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES OR AS NOTED ON DRAWINGS.

SIGNAGE

- SIGNAGE FOR INSIDE THE STAIRWAY SHALL BE PROVIDED PER GOVERNING CODE AUTHORITY.
- PROVIDE CODE REQUIRED SIGNAGE AS REQUIRED BY GOVERNING CODE AUTHORITY (TEMPORARY IF NECESSARY FOR INSPECTION).

SLNT	SLANT	SLT	SLATE TILE; SLATE
SMS	SHEET METAL SCREWS	SMT	SHEET METAL SCREWS
SNB	SANITARY NAPKIN DISPENSER	SNR	SANITARY NAPKIN RECEPTACLE
SPC	SPECIFICATION	SPD	STANDPIPE
SPKR	SPEAKER	SPKLR	SPEAKER
SQ	SQUARE	SS	STAINLESS STEEL
SV SK	SERVICE SINK	SSM	SOLID SURFACE MATERIAL
ST	STONE	STA	STONE TRANSMISSION COEFFICIENT
STC	SOUND TRANSMISSION COEFFICIENT	STD	STANDARD
STL	STEEL	STL	STEEL
STL LNTL	STEEL LINTEL	STN	STAIN
STOR	STORAGE	STRUC T	STRUCTURAL
SURR	SURROUND	SUSP	SUSPENDED
SV	SHEET VINYL	SV	SERVICE
SVCE	SERVICE	SW	SIDEWALK; SOUTHWEST; SWITCH
SYMM	SYMMETRICAL	SYS	SYSTEM
T	TREAD	T&B	TOP AND BOTTOM
T&B	TONGUE AND GROOVE	TB	TOWEL BAR
TD	TRENCH DRAIN	TEL	TELEPHONE
TEMP	TEMPORARY	OPR	OPERABLE
THK	THICK; THICKNESS	THRES	THRESHOLD
TOB	TOP OF BEAM	TOT	TOP OF CONCRETE; TOP OF CURB
TOV	TOP OF MASONRY	TOP	TOP OF PARAPET;
TOT	TOP OF SLAB	TOV	TOP OF TRUSS
TOW	TOP OF WALL	TP	TOILET PARTITION
TRANS	TRANSOM; TRANSPARENT	TRTD	TREATED
TS	TUBE STEEL	TV	TELEVISION
TYP	TYPICAL	UC	UNDERCUT
UNFIN	UNFINISHED	UNO	UNLESS NOTED OTHERWISE
URNAL	URNAL	PNT	PAIN
POLY	POLYETHYLENE (PLASTIC)	PORC	PORCELAIN
PRE	PREFABRICATED	PREFMD	PREFORMED
PROP	PROPERTY	PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH	PT	POST-TENSIONED
PTD	PAPER TOWEL DISPENSER	PRT	PRESERVATIVE TREATED
PTN	PARTITION	PVG	PAVING
QT	QUARRY TILE	QTB	QUARRY TILE BASE
QTY	QUANTITY	R	RADIUS; RISER
RB	RESILIENT BASE	REF	REFLECTED CEILING PLAN
RD	ROOF DRAIN	REBAR	REINFORCING STEEL BARS
REQD	REQUIRED	REIN	REINFORCE
REM	REMOVABLE	REQMT	REQUIREMENT
RESIL	RESILIENT	RESIL	RESILIENT
RIG INS	RIGID INSULATION	RFP	ROOFING
RF	RESILIENT FLOORING	RH	RIGHT HAND
ROOFING	ROOFING	THRU	THROUGH
RLG	RAILING	RM	ROOM
RND	ROUND	RND	ROUND
RO	ROUGH OPENING	ROW	RIGHT OF WAY
RS	ROUGH SAWN	RVS	REVERSE; REVERSE SIDE
RWD	REDWOOD	S	SOUTH
SC	SOLID CORE	SCD	SEAT COVER DISPENSER
SCHD	SCHEDULE	STN CONC	STAINED CONCRETE
SCP	SCURPER	SD	SHOWER CURTAIN ROD
SEAL CON	SEALED CONCRETE	SEC	SECTION
SF	SQUARE FOOT (FEET)	SF	SQUARE FOOT (FEET)
FM	FACTORY MUTUAL	ICC	INTERNATIONAL CODE COUNCIL
NAMM	NATIONAL ASSOCIATION OF METAL MANUFACTURERS	NBC	NORTH CAROLINA STATE BUILDING CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	NRC	NATIONAL ROOFING CONTRACTORS ASSOCIATION
PCI	PRECAST/PRESTRESSED CONCRETE INSTITUTE	SMACN	SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION
UL	UNDERWRITERS LABORATORIES		

ARCHITECTURAL MATERIAL LEGEND

	BRICK (ELEVATION)		RIGID INSULATION
	BRICK (PLAN & SECTION)		BATT INSULATION
	CONCRETE		FINISHED WOOD
	CMU (PLAN & SECTION)		ROUGH WOOD (CONTINUOUS)
	CUT STONE / CAST STONE		ROUGH WOOD (NON-CONTINUOUS)
	GRANULAR FILL		PLYWOOD
	EARTH		STEEL
	GYPSUM, SHEATHING, SAND, OR PLASTER		ALUMINUM

ARCHITECTURAL SYMBOL LEGEND

	COLUMN LINE TAG		REVISION TRIANGLE
	WINDOW SYMBOL TAG		DATUM LINE, BEARING, OR FLOOR ELEVATION
	PARTITION TYPE TAG		DOOR TAG
	SHEET KEYNOTE		

	ELEVATION TAG		BUILDING SECTION TAG ON PLANS
	SHEET NUMBER FOR ELEVATION		MATCH LINE
	ELEVATION TAG W/ DIRECTION		INDICATES SIMILAR SECTION
	SHEET NUMBER FOR ELEVATION		INDICATES MIRRORED SECTION
	DIRECTION ELEVATION IS TO BE VIEWED (TYP.)		INDICATES TYPICAL SECTION
	DETAIL TAG		DETAIL NUMBER
	DETAIL NUMBER		

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**BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**

Name of Project: CANTON POLICE STATION RENO
Address: 101 MAIN ST., CANTON, NC Zip Code: 28716
Owner/Authorized Agent: LISA STINNETT Phone # (828) 648 - 2363 E-Mail: LSTINNETT@CANTONNC.COM
Owned By: ☒ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ☒ County HAYWOOD ☐ State

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	CREECH & ASSOCIATES	MICHAEL S. SUPINO	13014	(704) 376-6000	MSUPINO@CREECHASSOCIATES.COM
Civil	CIVIL DESIGN CONCEPTS, PA	MICHAEL KELEHER	053880	(828) 252-5388	KELEHER@CDDGO.COM
Electrical	RNM ENGINEERS	JASON S. DENTON	035223	(828) 492-0677	SDENTON@RNM-ENGINEERS.COM
Fire Alarm	RNM ENGINEERS	MARK R. MCDOWELL	024539	(828) 492-0677	MMCDOWELL@RNM-ENGINEERS.COM
Plumbing	RNM ENGINEERS	MARK R. MCDOWELL	024539	(828) 492-0677	MMCDOWELL@RNM-ENGINEERS.COM
Mechanical	RNM ENGINEERS	DANIEL J. MYERS	053041	(828) 492-0677	DMYERS@RNM-ENGINEERS.COM
Sprinkler-Standpipe	RNM ENGINEERS	MARK R. MCDOWELL	024539	(828) 492-0677	MMCDOWELL@RNM-ENGINEERS.COM
Structural	BENNETT & PLESS	CORY HIGH	046810	(704) 710-6721	CHIGH@BENNETT-PLESS.COM
Retaining Walls > 5' High	BENNETT & PLESS	CORY HIGH	046810	(704) 710-6721	CHIGH@BENNETT-PLESS.COM
Other (Landscape)	LANDDESIGN	JEFFREY MIS	2538	(704) 333-0325	JMIS@LANDDESIGN.COM

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

Construction Type: ☐ I-A ☒ II-A ☐ III-A ☐ IV ☐ V-A
 (check all that apply) ☐ I-B ☒ II-B ☐ III-B ☐ V-B
Sprinklers: ☐ No ☐ Partial ☒ Yes ☒ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes ☐ Class I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☐ No ☒ Yes **Flood Hazard Area:** ☐ No ☒ Yes
Special Inspections Required: ☐ No ☒ Yes (Contact the local inspection jurisdiction for additional procedures and requirements)

CANTON POLICE STATION RENO

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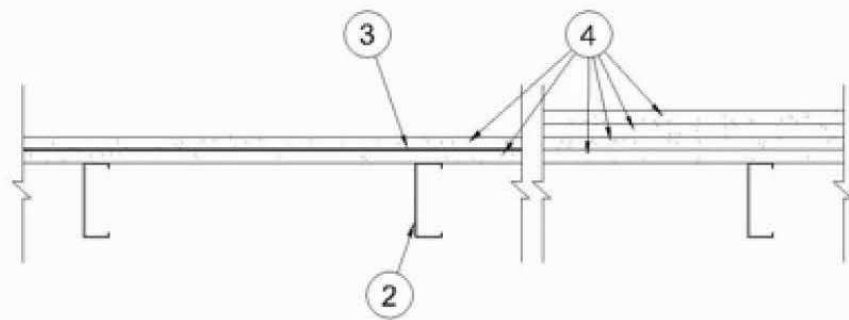
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
[See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States](#)
[Design Criteria and Allowable Variances](#)
[See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada](#)
[Design Criteria and Allowable Variances](#)

Design No. V497

November 15, 2022

Nonbearing Wall Rating - 1 or 2 Hr

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Floor and Ceiling Runners** — (Not Shown) — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members— Floor and Ceiling Runners** — (Not Shown) — As an alternate to Item 1. For use with Item 2A, channel shaped, min width to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max. **MARINO/WARE, DIV OF WARE INDUSTRIES INC** — Vipe25™ Track

2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min 3-5/8 in. wide, min 1-1/4 in. flanges, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs*** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min 3-5/8 in. wide, min 1-1/4 in. flanges, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. **MARINO/WARE, DIV OF WARE INDUSTRIES INC** — Vipe25™

3. **Laminating Compound** — For use with Item 4 - Used to bond outer layer wallboard to inner layer wallboard. Powder type mixed with water in accordance with instructions shown on bags. Applied to entire surface of base layer wallboard. Applied with notched trowel producing continuous beads about 1/4 in. wide and 1/4 in. high.

4. **Gypsum Board*** — 1 Hr Rating - Applied to one side of steel studs (Item 2). Two layers of 5/8 in. gypsum panels with beveled, square or tapered edges. Gypsum panels applied vertically with joints centered over studs. Base layer applied with 1 in. Type S screws spaced 24 in. oc. Face layer applied vertically with joints centered over studs and offset from base layer joints by one stud cavity. Face layer applied with 1-5/8 in. Type S screws spaced 12 in. oc starting with a 6 in. offset from the bottom of the gypsum panel. **NATIONAL GYPSUM CO** — 5/8 in. thick Types eXP-C, FSL, FSW, PSK, FSW-3, FSW-5, FSW-G, PSK-G, FSW-6, FSW-C, FSMR-C, PSK-C, Type SBWB

4A. **Gypsum Board*** — (As an alternate to Items 3 and 4) — 1 Hr Rating - Applied to one side of steel studs (Item 2). Three layers of 5/8 in. gypsum panels with beveled, square or tapered edges. Gypsum panels applied vertically or horizontally with vertical joints centered over studs and staggered one stud cavity in adjacent layers. Horizontal edge joints and horizontal butt joints in adjacent layers staggered a minimum of 12 in. Horizontal joints need not be backed by steel framing. First layer applied with 1 in. Type S screws spaced 24 in. oc. Second layer applied with 1-5/8 in. Type S screws spaced 24 in. oc. Face layer applied vertically 2-1/4 in. Type S screws spaced 12 in. oc starting with a 6 in. offset from the bottom of the gypsum panel. **NATIONAL GYPSUM CO** — 5/8 in. thick Type eXP-C, FSL, FSW, PSK, FSW-3, FSW-5, FSW-G, PSK-G, FSW-6, FSW-C, FSMR-C, PSK-C, Type SBWB

4B. **Gypsum Board*** — 1 Hr Rating - (As an alternate to Item 4A) - Nom. 5/16 in. thick gypsum panels applied vertically. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4A. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in Item 4A, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4A. **NATIONAL GYPSUM CO** — Type FSW

4C. **Gypsum Board*** — 2 Hour Rating — Applied to one side of steel studs (Item 2). Four layers of 5/8 in. gypsum panels with beveled, square or tapered edges. Gypsum panels applied vertically or horizontally with vertical joints centered over studs and staggered one stud cavity in adjacent layers. Horizontal edge joints and horizontal butt joints in adjacent layers staggered a minimum of 12 in. Horizontal joints need not be backed by steel framing. First layer applied with 1 in. Type S screws spaced 24 in. oc. Second layer applied with 1-5/8 in. Type S screws spaced 24 in. oc. Third layer applied with 2-1/2 in. Type S screws spaced 16 in. oc. Fourth layer applied with 3" Type S screws spaced 12 in. o.c. **NATIONAL GYPSUM CO** — 5/8 in. thick Type eXP-C, FSL, FSW, PSK, FSW-3, FSW-5, FSW-G, PSK-G, FSW-6, FSW-C, FSMR-C, PSK-C, Type SBWB

5. **Joint Tape and Compound** — (Not Shown) - Joints covered with joint compound and paper tape. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer panels.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

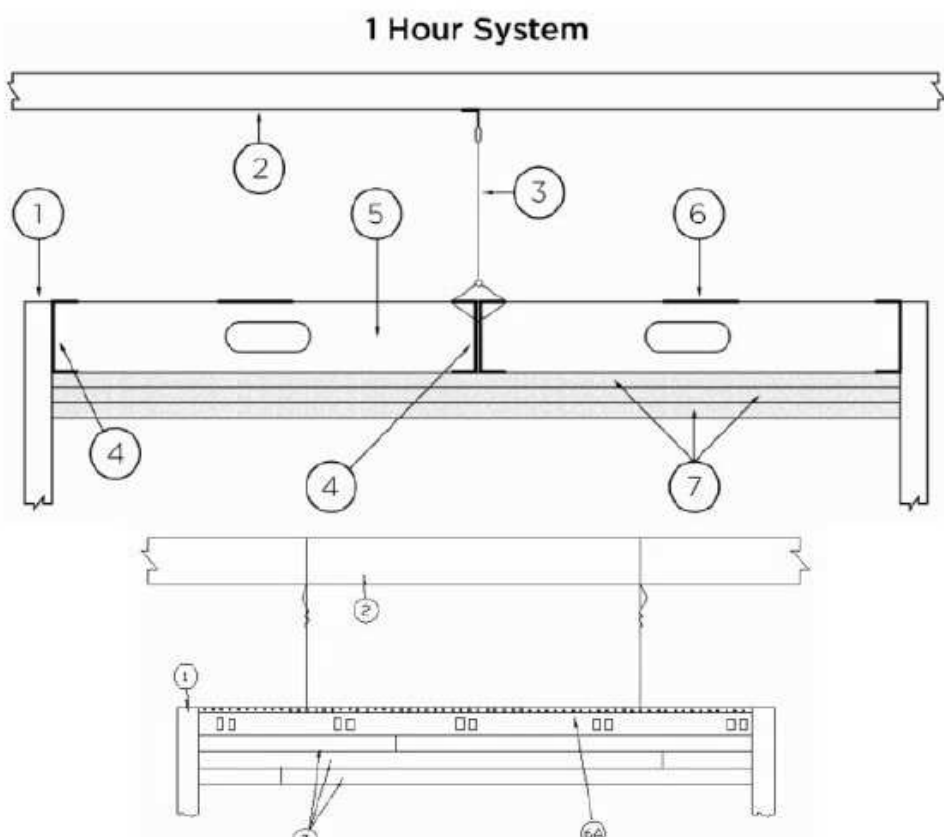
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
[See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States](#)
[Design Criteria and Allowable Variances](#)
[See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada](#)
[Design Criteria and Allowable Variances](#)

Design No. 1504

June 13, 2024

Ceiling Membrane Rating - 1 Hr.

Load Restriction - Limited to the Dead Weight of the Assembly
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Supporting Structure #1** — Fire-resistance rated. Suitable point of attachment of C-Channels (Item 4).

2. **Supporting Structure #2** — If necessary - Suitable point of attachment of hanger wire (Item 3).

3. **Hanger Wire** — If necessary - Min. 8 gauge steel wire, hung from holes punched in C-Channel (Item 4). Hanger wire spaced nominally 24 in. OC.

4. **C-Channel** — Used to support steel studs at both ends. Min. 3-5/8 in. deep with min. 1-1/4 in. legs and formed from min. No. 20 MSG galv. steel. Perimeter channels attached to a fire-resistance rated supporting structure (Item 1) with fasteners spaced not greater than 24 in. OC, at both the top and bottom of the vertical leg. When used with Items 2 and 3, C-Channel secured back to back with 1/2 in. Type S screws spaced 24 in. OC along centerline of C-Channels. Where C-Channels form a butt joint, screws placed at both top and bottom of both sides of butt joint.

5. **Steel Studs** — Min. 3-5/8 in. wide with min. 1-5/8 in. legs containing folded back flanges and formed from min. No. 20 MSG galv. Steel. Studs to be cut 5/8 in. to 5/8 in. less than the clear span between the vertical legs of the perimeter channels. Studs spaced a max. 16 in. OC. At each end of the stud, the top and bottom legs shall be secured to the perimeter channel with one 5/8 in. long pan-head steel screw. Studs are used at each end of the horizontal barrier to terminate the assembly at the adjoining wall. These end studs shall be secured to the adjoining wall in the same manner as the perimeter channels (Item 4). Maximum unsupported length of studs not to exceed 8 ft. 1 in.

6. **Steel Strip** — Min. 4 in. wide formed from min. No. 20 MSG galv. Steel. Secured perpendicular to the studs at the centerline of the span using one 3/8 in. long pan-head steel screw. Strips to overlap one full stud bay at splice locations. As an alternate to the steel strip, C-Channels (Item 4) may be substituted and installed in the same manner as the steel strips. If a continuous piece is not used, about channels on each side of the centerline of the span and overlap one full stud bay.

6A. **Framing Members*** — As an alternate to Items 3, 4, 5, and 6 - Main runners, cross tees, cross channels and wall angle as listed below:

a. **Main Runners** — Nom. 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 24 in. OC, twist tied to supporting structure.

b. **Cross Tees** — Nom. 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

c. **Cross Channels** — Nom. 4 ft long, installed perpendicular to main runners, spaced 16 in. OC.

d. **Wall Angle or Channel** — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw attachment of the gypsum panel. **AMERICAN WORLD INDUSTRIES INC.** — Type SW-6000.

7. **Gypsum Board*** — Three layers of nom. 5/8 in. thick gypsum board installed with long dimension perpendicular to the steel studs or Framing Members*. Base secured to studs and perimeter channels with 1 in. long Type S steel screws spaced max. 16 in. OC. Middle layer secured to the studs or Framing Members* and perimeter supports with 1-5/8 in. long Type S steel screws spaced max. 16 in. OC. Middle layer edge and joints staggered a min. 16 in. from base layer joints. Face layer secured to the studs or Framing Members* and perimeter supports with 2-1/4 in. long Type S steel screws spaced max. 12 in. OC. Face layer edge and end joints staggered a min. 16 in. from middle layer joints. **NATIONAL GYPSUM CO** — Type FSW, FSW-4, FSW-C, eXP-C.

8. **Joint Tape and Compound** — (Not Shown) - (Optional, Not Required On Joints or Screw Heads) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, nom. 2 in. wide, embedded in first layer of compound over all joints.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2024-06-13

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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

[See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States](#)
[Design Criteria and Allowable Variances](#)

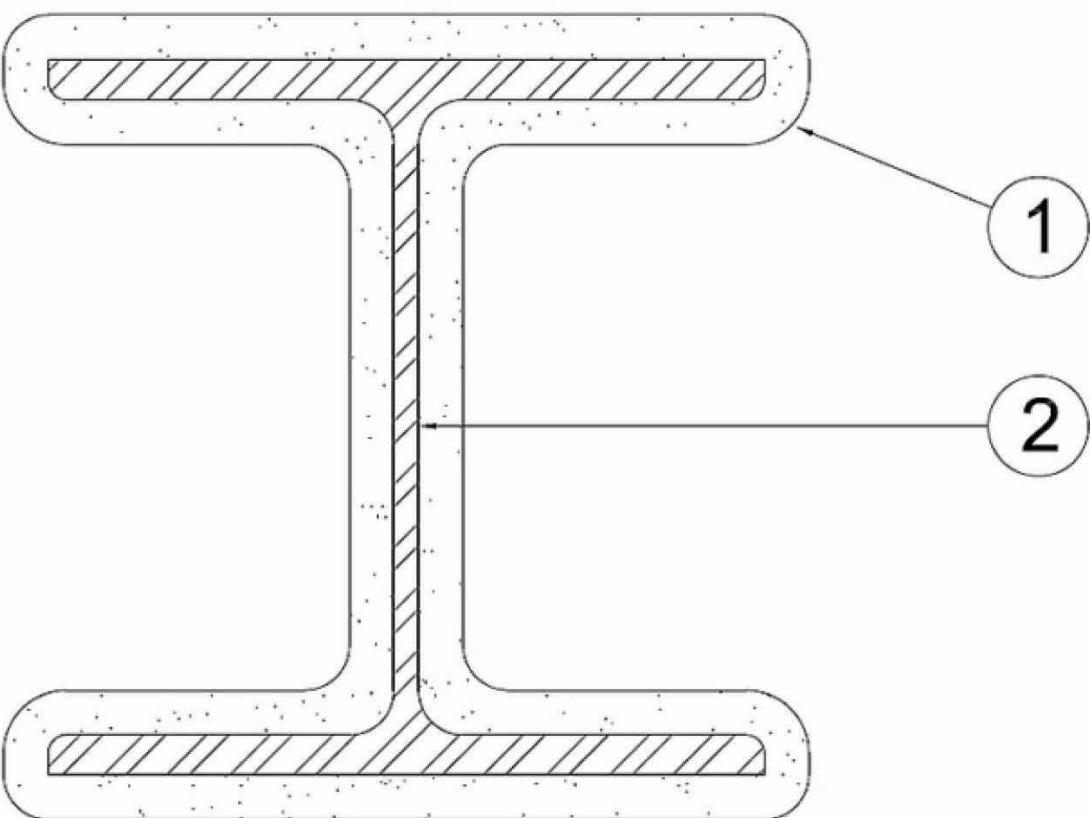
[See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada](#)
[Design Criteria and Allowable Variances](#)

Design No. X723

October 26, 2017

Ratings — 1, 2, 3 and 4 Hr.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Steel Column** — Min size of column, a W8x28 with outside dimensions of 8 by 6-1/2 in. with a flange thickness of 7/16 in. a web thickness of 5/16 in. and a cross-sectional area of 8.23 sq in.

2. **Spray-Applied Fire Resistive Materials*** — See table below for appropriate thickness. Applied by mixing with water and spraying in one or more coats to steel surfaces which must be clean and free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 19/18 pcf respectively for Type 7-GP and 7-HD. For method of density determination, see Design Information Section, preceding these designs.

Rating Hr	Min Thkns in.
4	2-11/16
3	2
2	1-3/8
1	3/4

The thicknesses contained in the table below are applicable when the Spray-Applied Fire Resistive Materials thickness applied to the columns flange tips is reduced to 1/2 that shown in the table below:

Rating Hr	Min Thkns in.
4	2-15/16
3	2-1/4
2	1-1/2
1	13/16

GCP KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Monokote Acoustic 1.

PYKOK INC — Type LD.

SOUTHWEST FIREPROOFING PRODUCTS CO — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 8EF, 9GP, 9MD.

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6s, Monokote Acoustic 1, RG.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2017-10-26

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JULY 7, 2025



CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
Date: JULY 7, 2025

UL SYSTEMS

G1.03

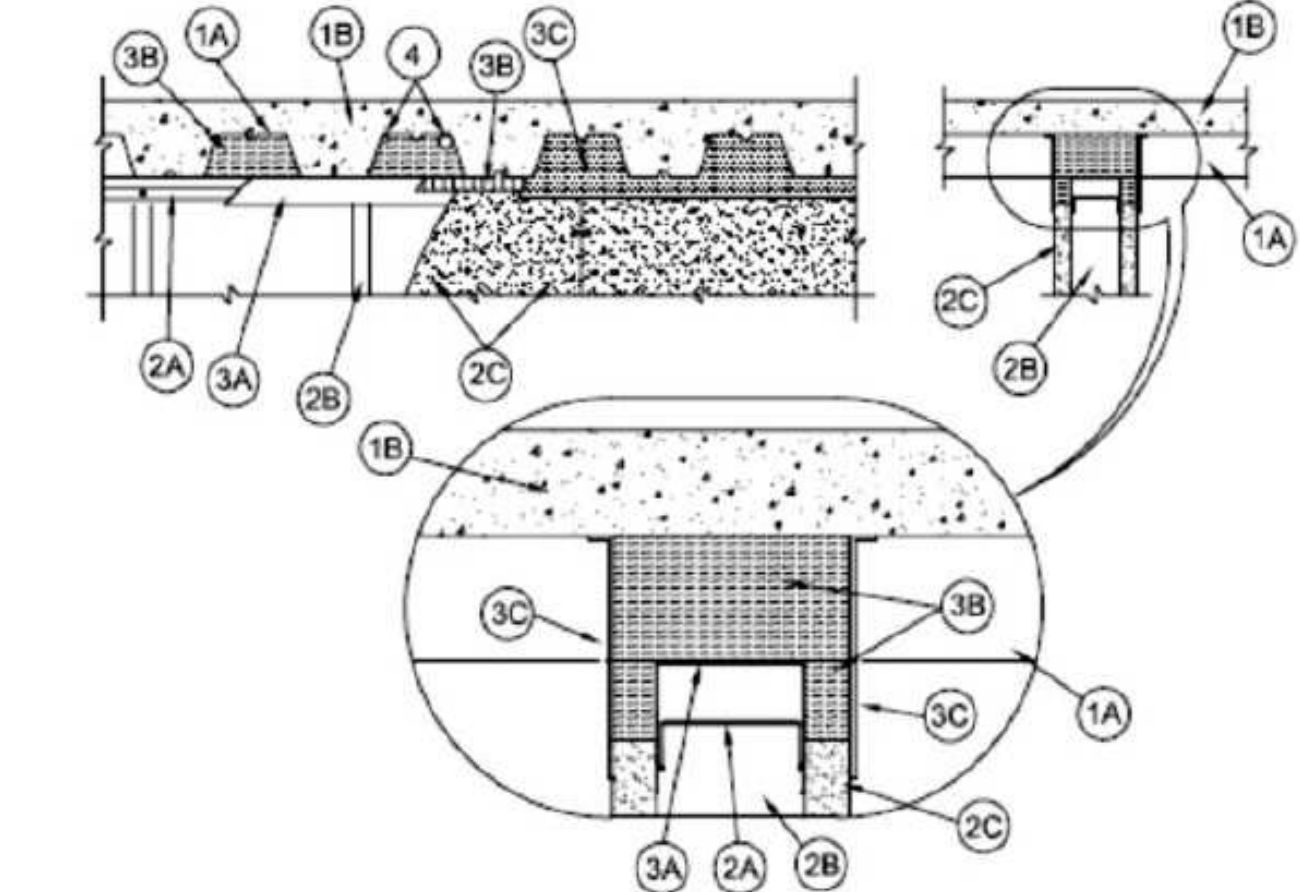
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XHBN - Joint Systems XHBN7 - Joint Systems Certified for Canada See General Information for Joint Systems See General Information for Joint Systems Certified for Canada	
System No. HW-D-0564	
June 27, 2023	
ANSI/UL2079	CAN/ULC S115
Assembly Rating — 1 Hr	F Rating — 1 Hr
Nominal Joint Width - 2 in.	FT Rating — 1 Hr
Class II And III Movement Capabilities — 20% Compression Or Extension, or Class II Movement Capabilities — 20% Compression and 12.5% Extension (See Item 1C)	FH Rating — 1 Hr
	FTF Rating — 1 Hr
	Nominal Joint Width - 2 in.
	Class II And III Movement Capabilities — 20% Compression Or Extension, or Class II Movement Capabilities — 20% Compression and 12.5% Extension (See Item 1C)



1. **Floor Assembly** — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
- A. **Steel Floor and Form Units*** — Max 3 in. (76 mm) deep galv steel fluted floor units.
- B. **Concrete** — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
- C. **Spray—Applied Fire Resistive Materials*** — After installation of the deflection channel (Item 3A) or ceiling runner, and prior to the installation of Forming Material and Fill, Void or Cavity Material (Items 3B, 3C), the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (44 mm) thickness of fire resistive material.
- ISOLATER INTERNATIONAL — Type 300

GCP APPLIED TECHNOLOGIES INC — Type MK-6 HY

When Type 300 spray is used, the movement cycling for the joint is Class II Movement Capabilities with 20% Compression and 12.5% Extension.

- 1A. **Roof Assembly** — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
- A. **Steel Roof Deck** — Max 3 in. (76 mm) deep galv steel fluted roof deck.

- B. **Roof Insulation** — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

- 1B. **Roof Assembly** — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
- A. **Steel Roof Deck** — Max 3 in. (76 mm) deep galv steel fluted roof deck.

Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

A. **Steel Roof Deck** — Max 3 in. (76 mm) deep galv steel fluted roof deck.

- B. **Spray—Applied Fire Resistive Materials*** — (Not Shown)—Prior to the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 2A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.

2. **Wall Assembly** — The 1 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, U400 or U400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
- A. **Steel Floor and Ceiling Runners** — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). When U-shaped deflection channel (Item 3A) is used, ceiling runner to be provided with 1 in. (25 mm) flanges and installed within the U-shaped deflection channel (Item 3A) with a 1-1/2 in. (38 mm) gap between the top of the ceiling runner and top of deflection plate. When deflection channel is not used, the ceiling runner shall have min 3 in. (76 mm) flanges. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (305 mm) OC. When optional spray-applied fire resistive material is used on the steel deck and when deflection channel is not used, ceiling runner secured prior to application of the spray-applied material to each valley of the steel deck with steel fasteners or welds spaced max 24 in. (305 mm) OC.

- A1. **Light Gauge Framing***—**Slotted Ceiling Runner** — (For use in applications where the nominal joint width does not exceed 1-1/2 in. or 38 mm) - As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (305 mm) OC. When optional spray-applied material is used on the steel deck, slotted ceiling runner secured prior to application of the spray-applied material to valleys of the steel deck with steel fasteners or welds spaced max 24 in. (305 mm) OC.
- CEMCO, LLC — CST

- CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H
- MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT
- METAL-LITE INC — The System
- RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

- A2. **Light Gauge Framing***—**Vertical Deflection Ceiling Runner** — (For use in applications where the nominal joint width does not exceed 1 in. or 25 mm) - As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (305 mm) OC. When vertical deflection ceiling runner is used, deflection channel (Item 3A) shall not be used. When optional spray-applied material is used on the steel deck, vertical deflection ceiling runner secured prior to application of spray-applied material to valleys of the steel deck with steel fasteners or welds spaced max 24 in. (305 mm) OC.
- THE STEEL NETWORK INC — VertTrack VTD250, VTD362, VTD400, VTD600 and VTD800

- A3. **Light Gauge Framing*** — **Clipped Ceiling Runner** — As an alternate to the ceiling runner in Items 2A, 2A1 and 2A2, clipped runner to consist of galv steel channel with clips preformed in track flanges which positively engage the inside flange of the steel studs (Item 2B). Track sized to accommodate steel studs (Item 2B). Track flanges to be min 3-1/4 in. (83 mm). Clipped ceiling runner installed

perpendicular to direction of fluted steel floor units and secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC. When clipped ceiling runner is used, deflection channel (Item 3A) shall not be used. When optional spray-applied material is used on the steel deck, clipped ceiling runner secured prior to application of spray-applied material to valleys of steel deck with steel fasteners or welds spaced max 24 in. (305 mm) OC.

TOTAL STEEL SOLUTIONS L L C — Snap Track

- A4. **Light Gauge Framing*** — **Notched Ceiling Runner** — As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection channel (Item 3A) shall not be used. When optional spray-applied material is used on the steel deck, notched ceiling runner secured prior to application of spray-applied material to valleys of steel deck with steel fasteners or welds spaced max 24 in. (305 mm) OC.
- OLMAR SUPPLY INC — Type SCR

- B. **Studs** — Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.
- C. **Gypsum Board*** — Gypsum board installed to a min total thickness of 5/8 in. (16 mm) on each side of wall for 1 hr rated assembly. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 2 in. (51 mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel deck and the top row of screws shall be installed into the studs 4 to 4-1/2 in. (102 to 114 mm) below the lower surface of the floor or roof.

3. **Joint System** — Max separation between bottom of floor and top of wall at time of installation of joint system is 2 in. (51 mm). The joint system is designed to accommodate a max 20 or 12.5 percent (see Item 1C) compression or extension from its installed width. The joint system consists of a deflection channel, forming material and a fill material as follows:
- A. **Deflection Channel** — (Optional) - A nom 3-5/8 in. (92 mm) wide by 3 in. (76 mm) deep min No. 22 gauge steel U-shaped channel. Deflection channel installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or by welds spaced max 12 in. (305 mm) OC. When optional spray-applied fire resistive material is used on the steel deck, deflection channel secured prior to application of spray-applied material to valleys of steel deck with steel fasteners or welds spaced max 12 in. (305 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1-1/2 in. (38 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.

- B. **Forming Material*** — Nom 4 pcf (64 kg/m³) density mineral wool batt insulation cut to a length approx equal to the overall thickness of the wall. Multiple pieces stacked on top of each other, as needed, and then compressed 50 percent in thickness and inserted into the flutes of the steel deck above the top of the ceiling runner. The mineral wool batt insulation to project beyond each side of the ceiling runner, flush with wall surface. Additional 5/8 in. (16 mm) wide strips of nom 4 pcf (64 kg/m³) mineral wool batt insulation are to be cut to fill the gap between the top of the gypsum board and bottom of the steel deck. The strips of mineral wool are compressed 50 percent and tightly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel deck on both sides of the wall.
- ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — SAFE

THERMAFIBER/OWENS CORNING — Type SAF

- B1. **Forming Material***—**Plugs** — (Optional: Not Shown) - Preformed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling runner. The plugs shall project beyond each side of the ceiling runner, flush with wall surface. Additional forming material, described in Item 3B, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and the bottom of plug.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs

- B2. **Forming Material*** - **Strips** — (Optional) - Nom 5/8 in. (16 mm) wide by 4 in. (102 mm) thick precut mineral wool strips. The strips are compressed 50 percent in thickness and firmly packed into the gap between the top of the gypsum board and bottom of the steel floor units on both sides of the wall.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 767 Speed Strips

- C. **Fill, Void or Cavity Material*** — Min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 mm) onto gypsum board and steel deck on both sides of wall. When spray-applied fire resistive material is applied to the steel deck, the fill material is to overlap the gypsum board a min of 1/2 in. (13 mm) and the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of wall. When spray-applied fire resistive materials are used, the CP672 firestop spray shall overlap the wall a min 1/2 in. (13 mm) and overlap the spray-applied fire resistive material a min 2 in. (51 mm) on both sides of the wall. When through-penetrants (Item 4) are installed within the fill, the fill material shall overlap a min 1/2 in. (13 mm) onto the periphery of each penetrant, on both sides of wall.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray

4. **Through-Penetrants** — (Optional) - Max of two penetrants may be installed parallel with and within the flutes of the steel floor or roof deck. The annular space between penetrants and steel deck or spray-applied fire resistive material on steel deck shall be min 0 in. (point contact) and the annular space between penetrants within the flute shall be min 2 in. (51 mm). Penetrants to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of penetrants may be used:
- A. **Polyvinyl Chloride (PVC) Pipe** — Nom 1-1/2 in. (38 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems.

- B. **Rigid Nonmetallic Conduit** — Nom 1-1/2 in. (38 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).
- C. **Steel Conduit or Tubing** — Nom 1/2 in. (13 mm) diam rigid steel conduit or steel electrical metallic tubing (EMT) installed in accordance with the National Electrical Code (NFPA No. 70).

- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
- Last Updated on 2023-06-27

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XHEZ7 - Through-penetration Firestop Systems Certified for Canada

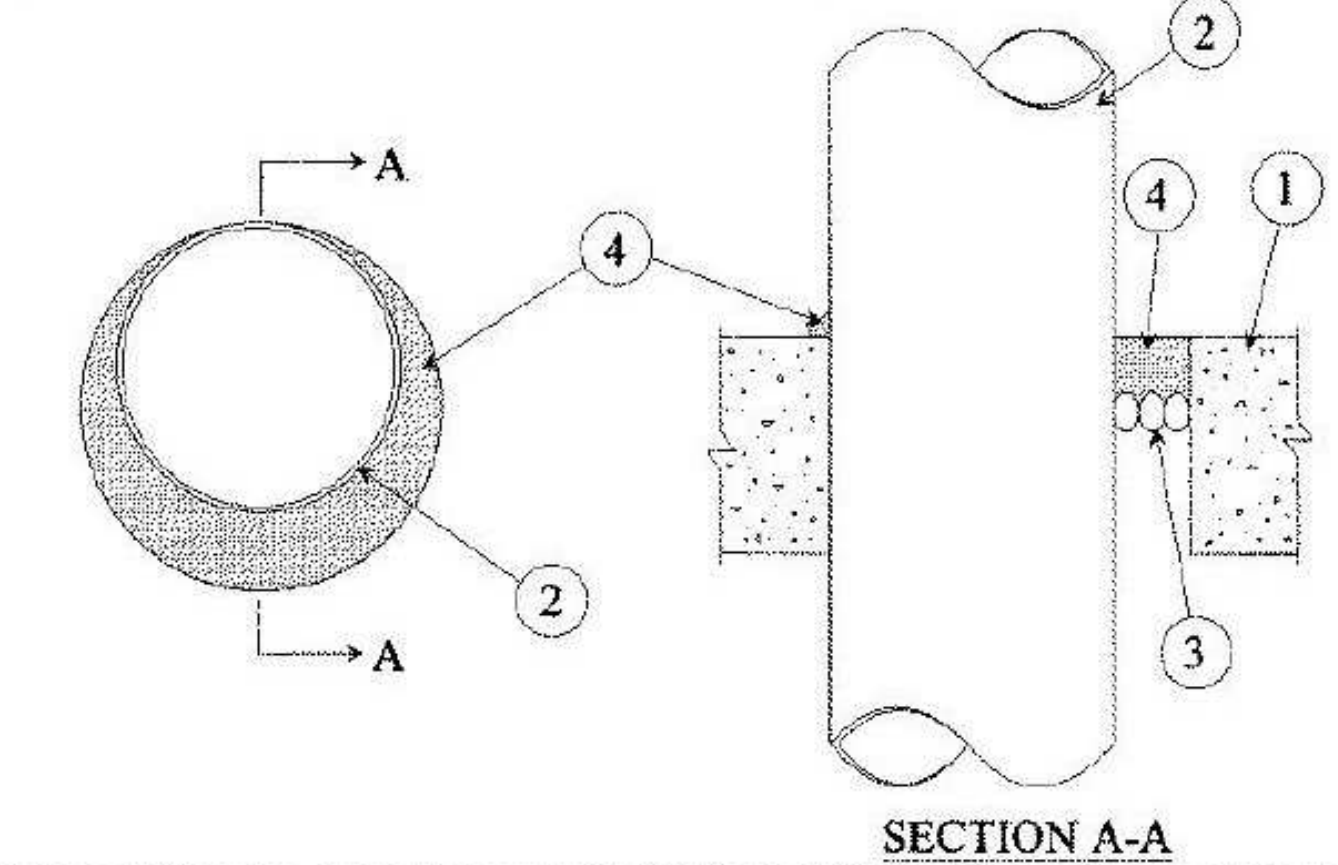
[See General Information for Through-penetration Firestop Systems](#)

[See General Information for Through-penetration Firestop Systems Certified for Canada](#)

System No. C-AJ-1044

November 24, 2022

ANSI/UL1479	CAN/ULC S115
Assembly Ratings — 2, 3, and 4 Hr (See Item 2A and 4)	F Ratings — 2, 3, and 4 Hr (See Item 2A and 4)
L Rating at Ambient — Less than 1 CFM/Sq Ft	FT Ratings — 0 Hr
L Rating at 400°F — Less than 1 CFM/Sq Ft	FH Ratings — 0 Hr
W Rating - Class 1 (See Item 4)	FTF Ratings — 0 Hr
	L Rating at Ambient — Less than 5.1 L/s/m ²
	L Rating at 204°C — Less than 5.1 L/s/m ²
	W Rating — Class 1 (See Item 4)



1. **Floor or Wall Assembly** — Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Except as noted in table under Item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units. When floor is constructed of hollow core precast concrete units, packing material (Item 3) and caulk fill material (Item 4) to be installed symmetrically on both sides of floor, flush with floor surface. Wall assembly may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening in solid lightweight or normal weight concrete floor is 32 in. (813 mm). Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in. (178 mm).
- See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

- 1A. **Steel Sleeve** — (Optional, Not Shown) - Nom 16 in. (406 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. As an alternate, nom 16 in. (406 mm) diam (or smaller) min 0.028 (0.71 mm) thick galvanized sheet steel sleeve cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max annular space between pipe, conduit or tubing and edge of through opening or sleeve is dependent on the parameters shown in Item 4. Min annular space between pipe or conduit and edge of through opening is 0 in. (point contact). Max annular space to be as shown in the table in Item 4. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
- A. **Steel Pipe** — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

- B. **Iron Pipe** — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

- C. **Conduit** — Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.

- D. **Conduit** — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.

- E. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

- F. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Packing Material** — Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).

- 3A. **Forming Material*** — As an alternate to the packing material in Item 3, nom 4 in. (102 mm) wide strips of min 1/2 in. (13 mm) thick compressible mat to be stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 4 in. (102 mm) depth. As an option, the strips of min 1/2 in. (13 mm) thick compressible mat may be folded in half, lengthwise, and stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 2 in. (51 mm) depth. Top of forming material to be recessed from top surface of floor or from both surfaces of wall as necessary to accommodate the required thickness of caulk fill material.
- 3M COMPANY — Fire Barrier Packing Material

4. **Fill, Void or Cavity Material*** — **Caulk, Sealant** — Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. At point contact location between penetrant and sleeve or between penetrant and concrete, a min 1/4 in. (6 mm) diam bead of caulk shall be applied at top surface of floor and at both surfaces of wall. The hourly F Ratings and the min required caulk thicknesses are dependent upon a number of parameters, as shown in the following table:

Min Floor or Wall Thkns In.	Nom Pipe Tube or Conduit Diam In.	Max Annular Space In.	Min Caulk Thkns In.	F Rating
2-1/2 (64)	1/2-12 (13-305)	1-3/8 (35)	1/2 (13)	2
2-1/2 (64)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1/4 (6) (a)	2
4-1/2 (114)	1/2-12 (13-305)	1-1/4 (32)	1/2 (13)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25) (b)	4

(a)Min 2 in (51 mm) thickness of mineral wool batt insulation or forming material (Item 3A) required in annular space.

(b)Min 1 in. (25 mm) thickness of mineral wool batt insulation required in annular space on both sides of floor or wall assembly. Min 1 in.(25 mm) thickness of caulk to be installed flush with each surface of floor or wall assembly.

3M COMPANY — CP 25WB+ or FB-3000 WT.

(Note: - W Rating applies only when FB-3000 WT is used.)

- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2022-11-24

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XHEZ - Through-penetration Firestop Systems

[See General Information for Through-penetration Firestop Systems](#)

System No. W-L-1001

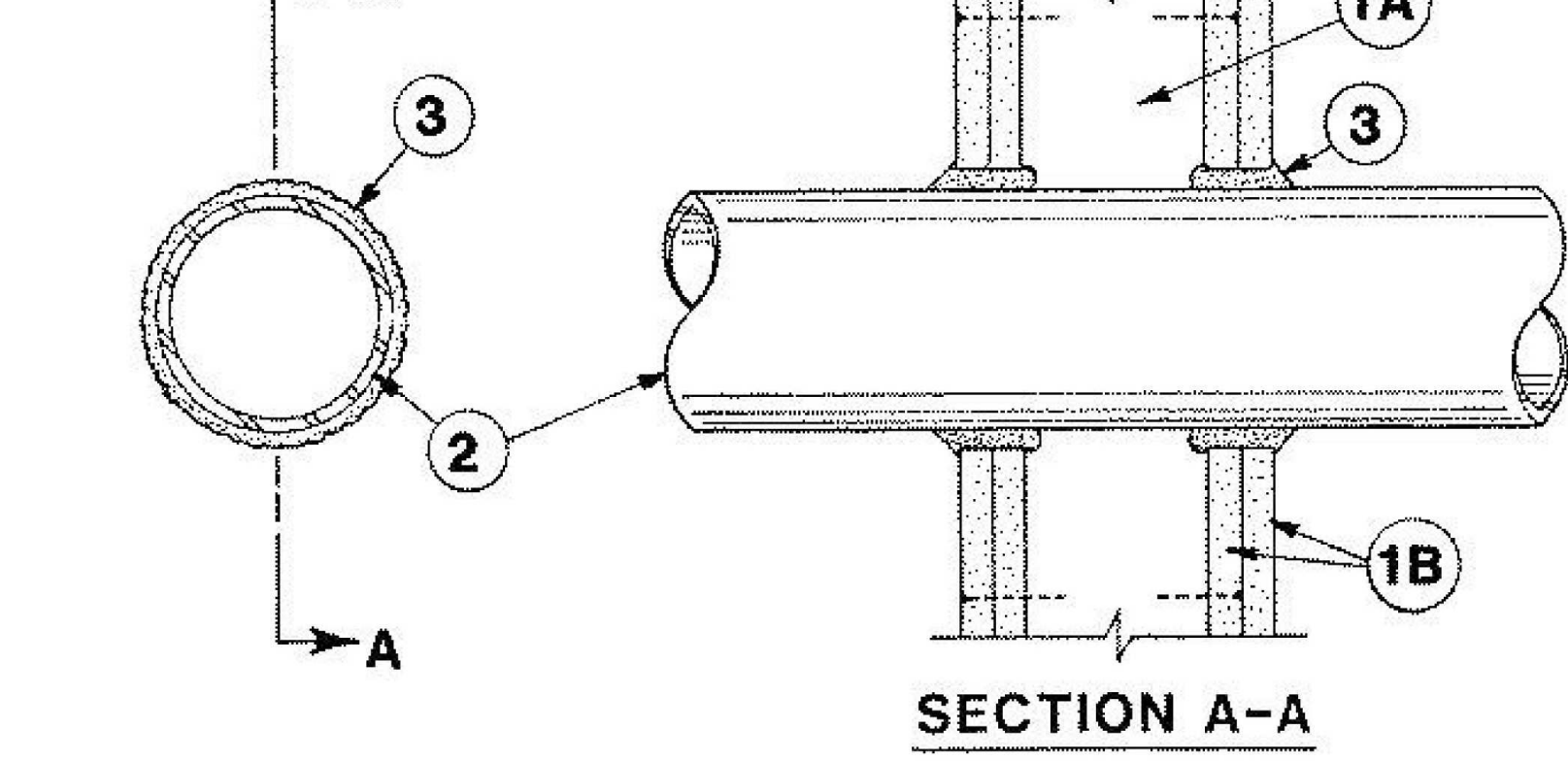
June 15, 2005

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

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

L Rating at Ambient — less than 1 CFM/sq ft

L Rating at 400 F — less than 1 CFM/sq ft



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

- A. **Studs** — Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

- B. **Gypsum Board*** — Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. **Through-Penetrant** — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

- A. **Steel Pipe** — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. **Iron Pipe** — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
- C. **Conduit** — Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing
- D. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
- E. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- F. **Through Penetrating Product*** — Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITFLEX

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG L L C

3. **Fill, Void or Cavity Material*** — **Caulk or Sealant** — Min 5/8, 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F-Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

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

3M COMPANY — CP 25WB+ or FB-3000 WT.

- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2005-06-15

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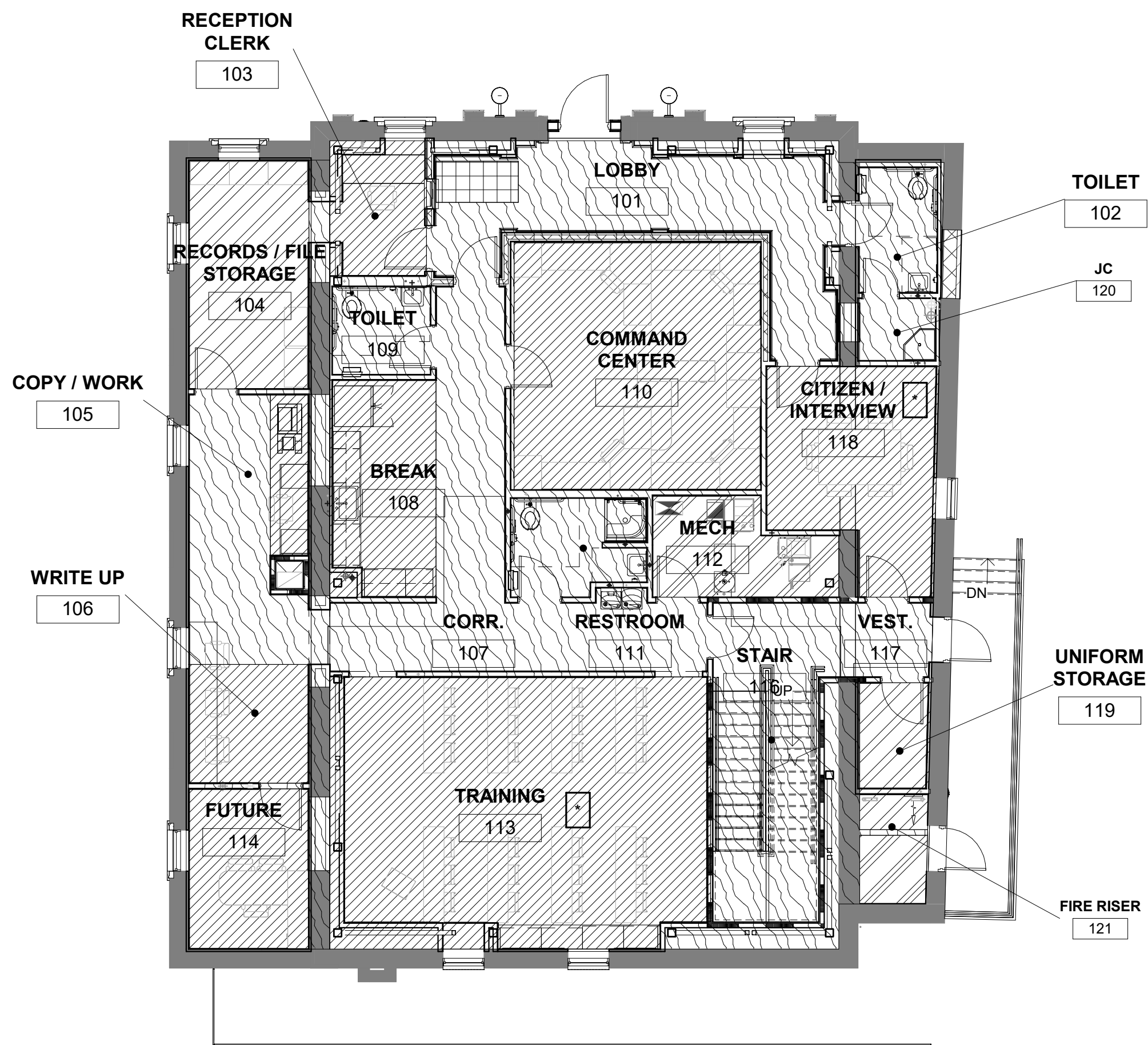
JULY 7, 2025



CANTON POLICE STATION RENO

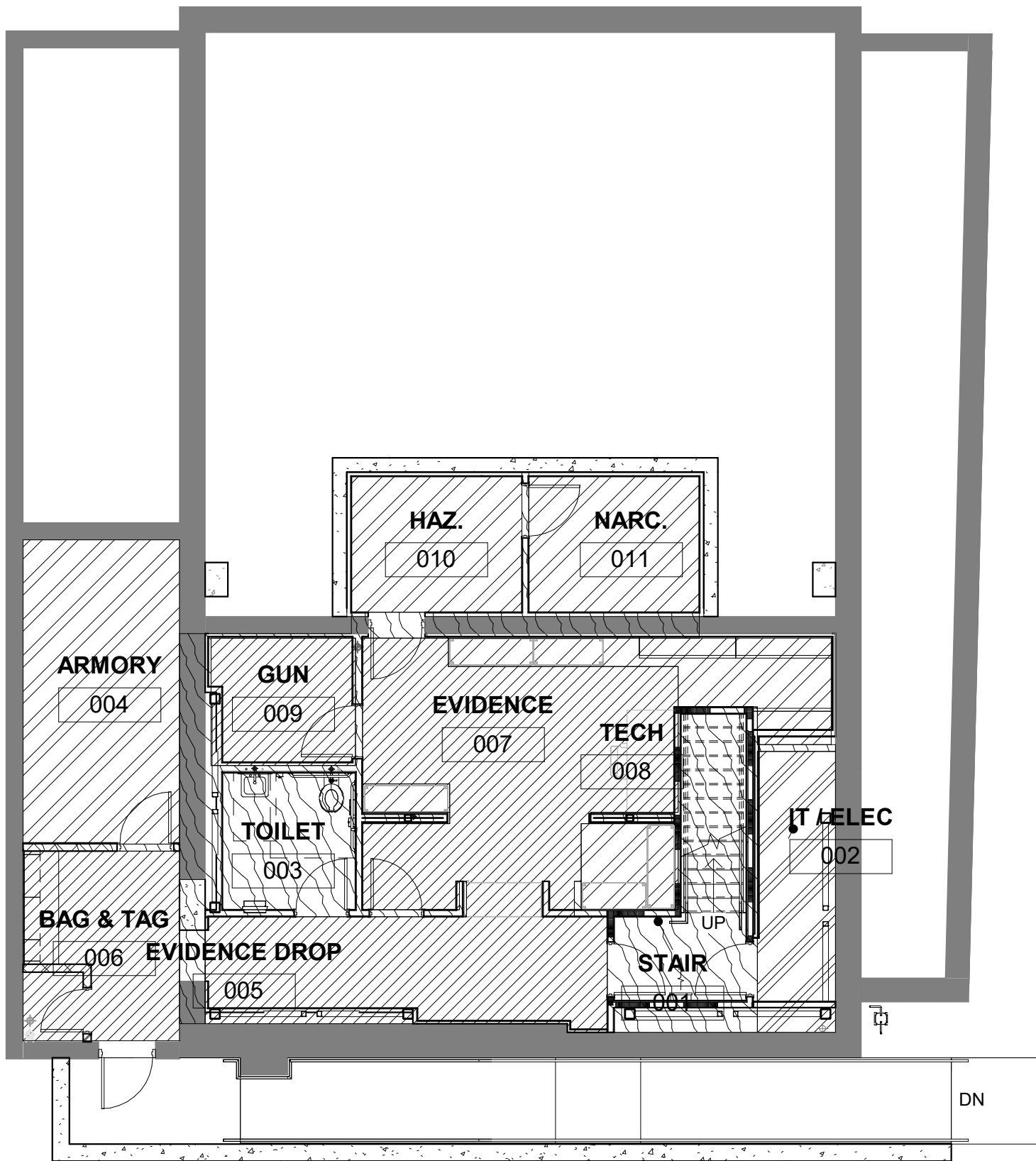
No.	Description	Date

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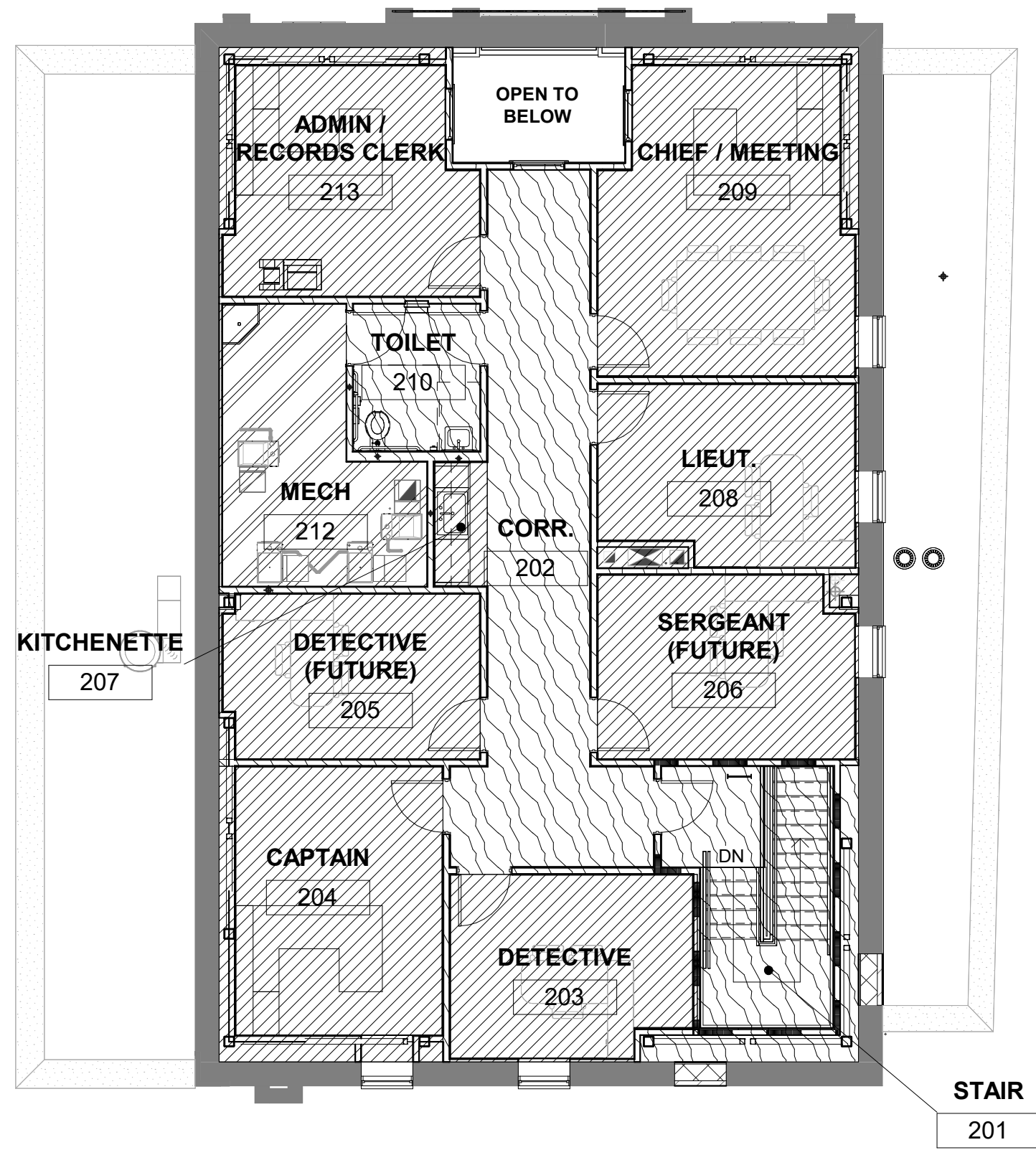
C1 FIRST FLOOR OCCUPANCY PLAN
1/8" = 1'-0"

C



C3 BASEMENT OCCUPANCY PLAN
1/8" = 1'-0"

B



A1 NEW SECOND FLOOR OCCUPANCY PLAN
1/8" = 1'-0"

A

OCCUPANCY LEGEND - FIRST FLOOR

SYMBOL	OCCUPANCY TYPE	SQUARE FOOTAGE	OCCUPANTS
	ASSEMBLY STANDING OCCUPANCY	18	4
	BUSINESS GROSS OCCUPANCY	1381	14
	BUSINESS OCCUPANCY	1446	15
	STORAGE OCCUPANCY	201	1
	UTILITY OCCUPANCY	109	1

TOTAL OCCUPANCY= 35

* - ASSEMBLY SPACE IS UNDER 750 SQ. FT. AND IS IN ACCESSORY TO THE PRIMARY BUSINESS FUNCTION OF THE BUILDING. THIS SPACE IS CLASSIFIED AS A GROUP B OCCUPANCY PER 303.1.2 OF THE 2018 NCBC

OCCUPANCY LEGEND - SECOND FLOOR

SYMBOL	OCCUPANCY TYPE	SQUARE FOOTAGE	OCCUPANTS
	BUSINESS GROSS OCCUPANCY	622	7
	BUSINESS OCCUPANCY	1343	14
	UTILITY OCCUPANCY	156	1

TOTAL OCCUPANCY= 22

OCCUPANCY LEGEND - BASEMENT

SYMBOL	OCCUPANCY TYPE	SQUARE FOOTAGE	OCCUPANTS
	BUSINESS GROSS OCCUPANCY	295	3
	BUSINESS OCCUPANCY	546	6
	STORAGE OCCUPANCY	430	2
	UTILITY OCCUPANCY	76	1

TOTAL OCCUPANCY= 12

LEGEND

TRUE NORTH



PLAN NORTH



EXISTING WALL TO REMAIN

NEW WALL

1 HOUR FIRE RATED PARTITION

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OCCUPANCY PLANS

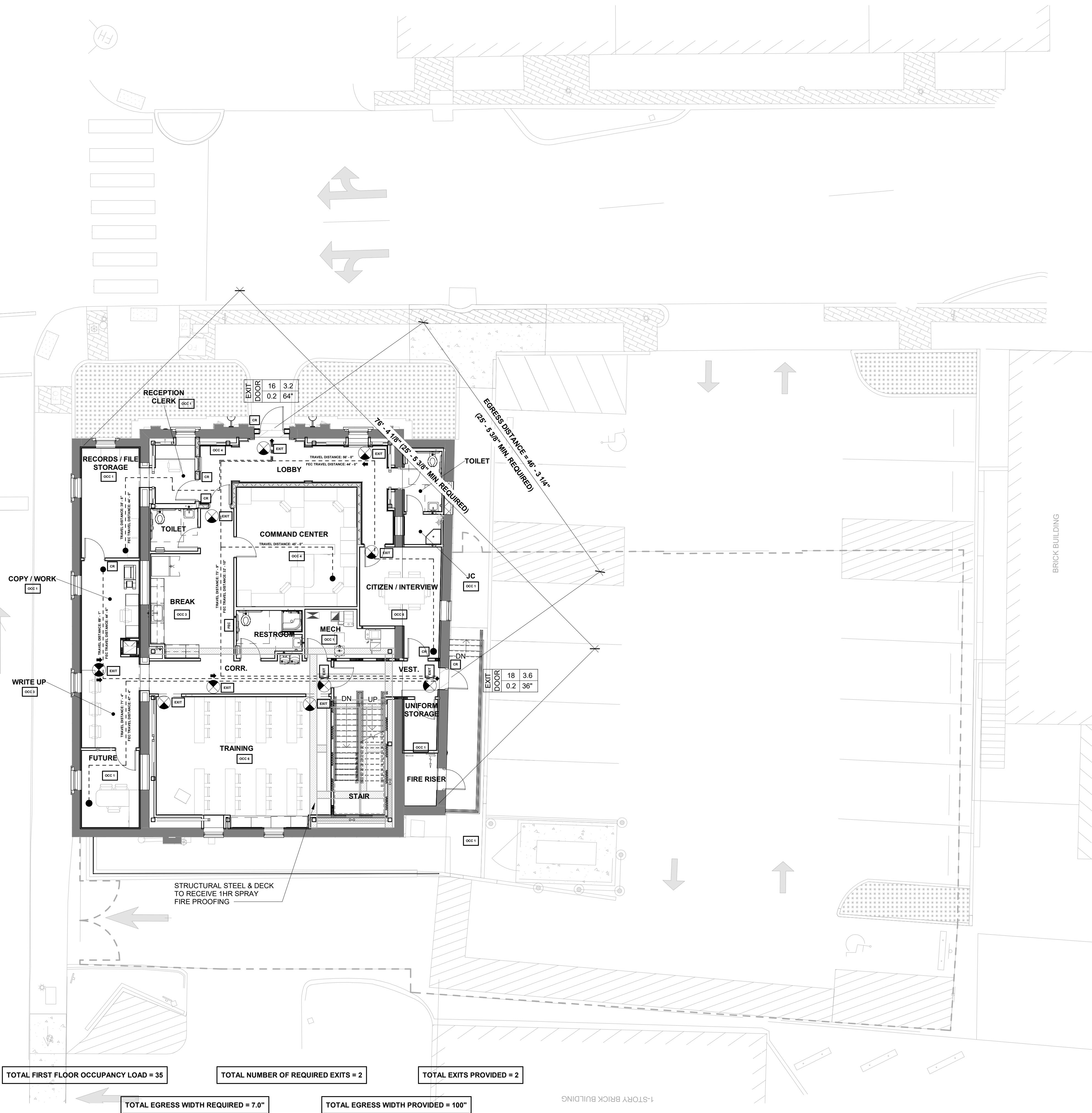
G2.01

D

C

B

A



LIFE SAFETY LEGEND

NUMBER OF OCCUPANTS
TOTAL WIDTH REQUIRED
TOTAL WIDTH PROVIDED
MULTIPLIER PER 1005.1

FEC NEW FIRE EXTINGUISHER CABINET
CR CARD READER
EXIT EXIT SIGN

LEGEND

TRUE NORTH
PLAN NORTH

EXISTING WALL TO REMAIN
NEW WALL
1 HOUR FIRE RATED PARTITION

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LIFE SAFETY PLANS

G2.11

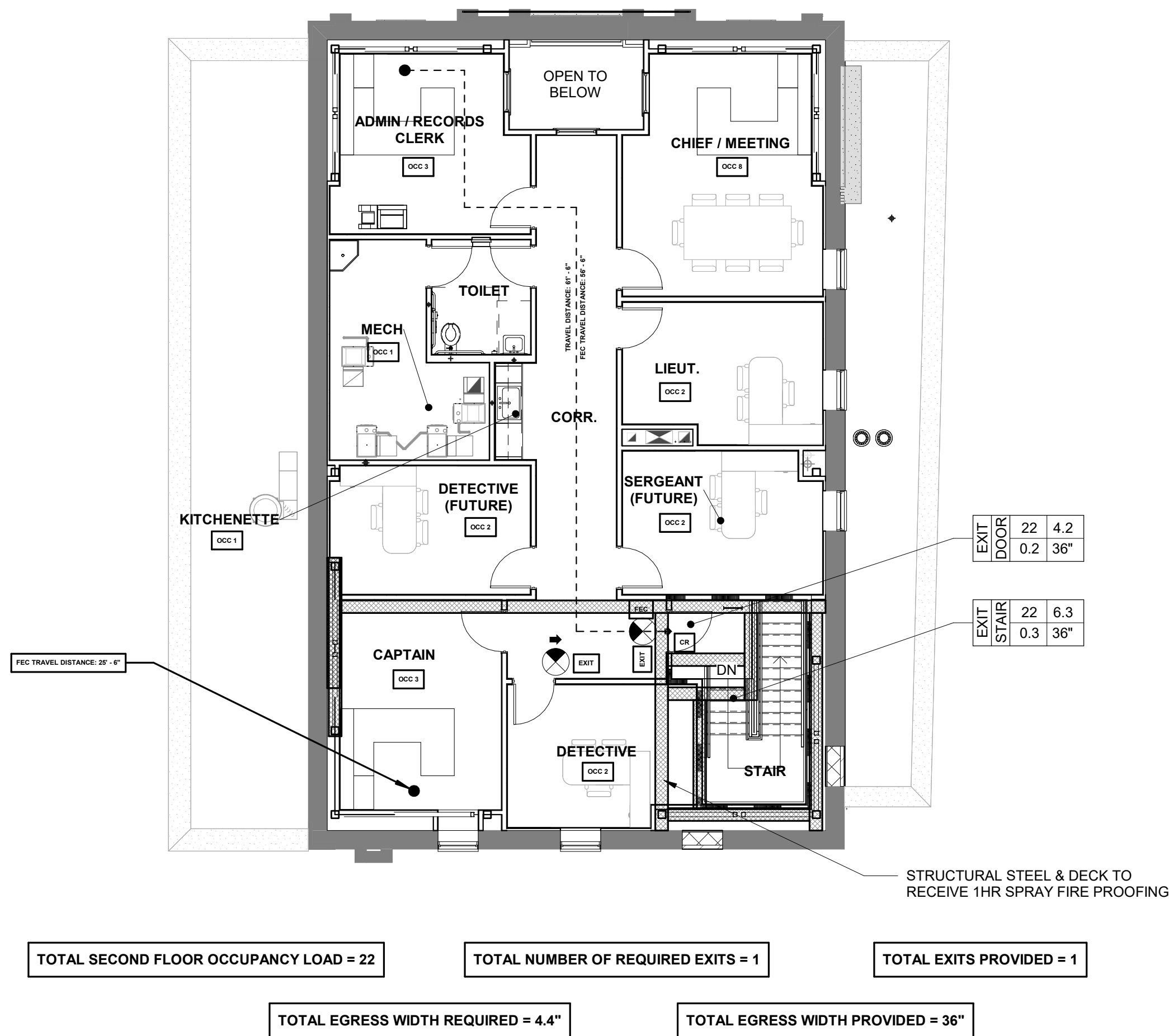
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C

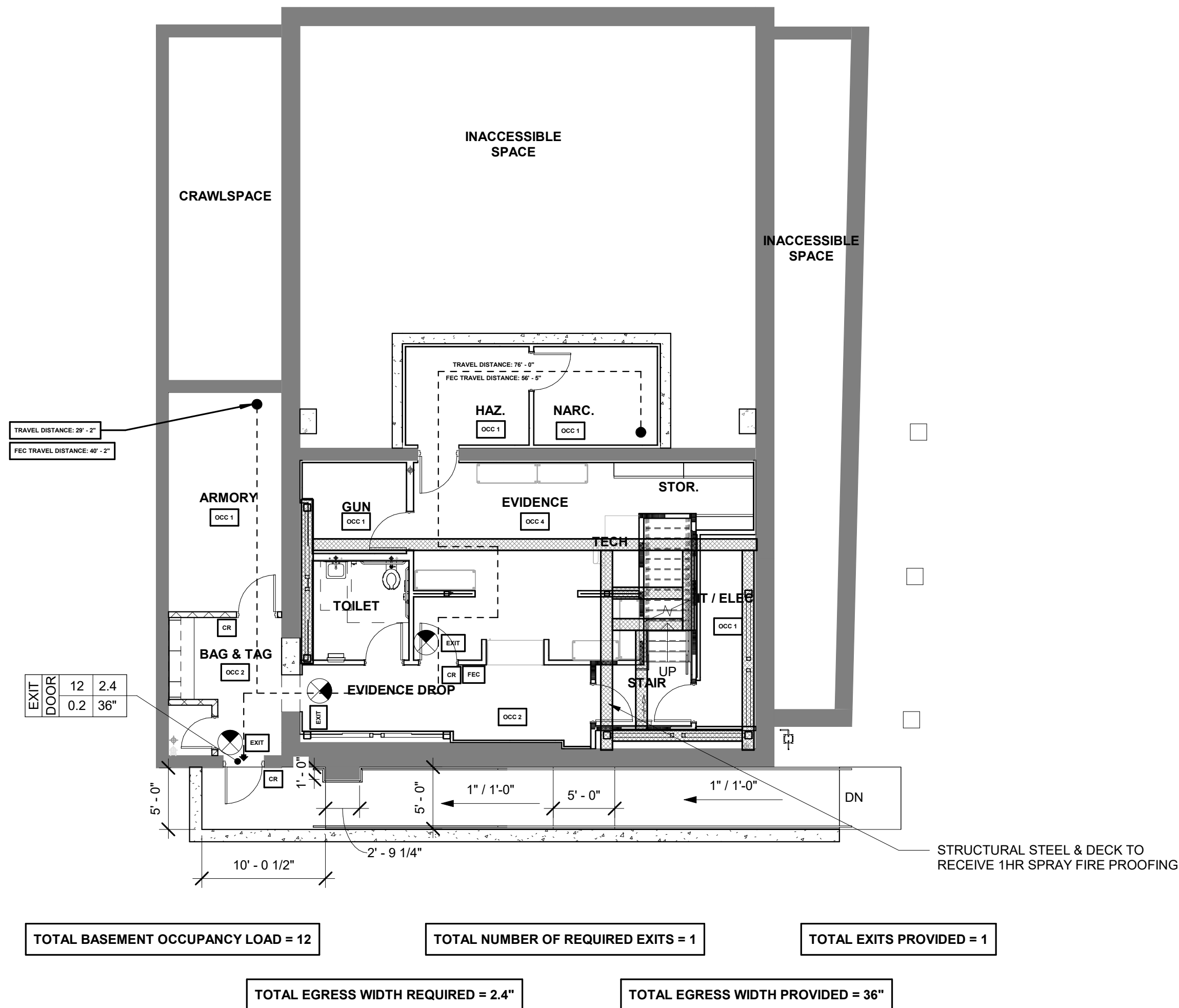
B

A

C1 NEW SECOND FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"



A1 BASEMENT LIFE SAFETY PLAN
1/8" = 1'-0"



LIFE SAFETY LEGEND

NUMBER OF OCCUPANTS
TOTAL WIDTH REQUIRED
TOTAL WIDTH PROVIDED
MULTIPLIER PER 1005.1

FEC	NEW FIRE EXTINGUISHER CABINET
CR	CARD READER
EXIT	EXIT SIGN

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LIFE SAFETY PLANS

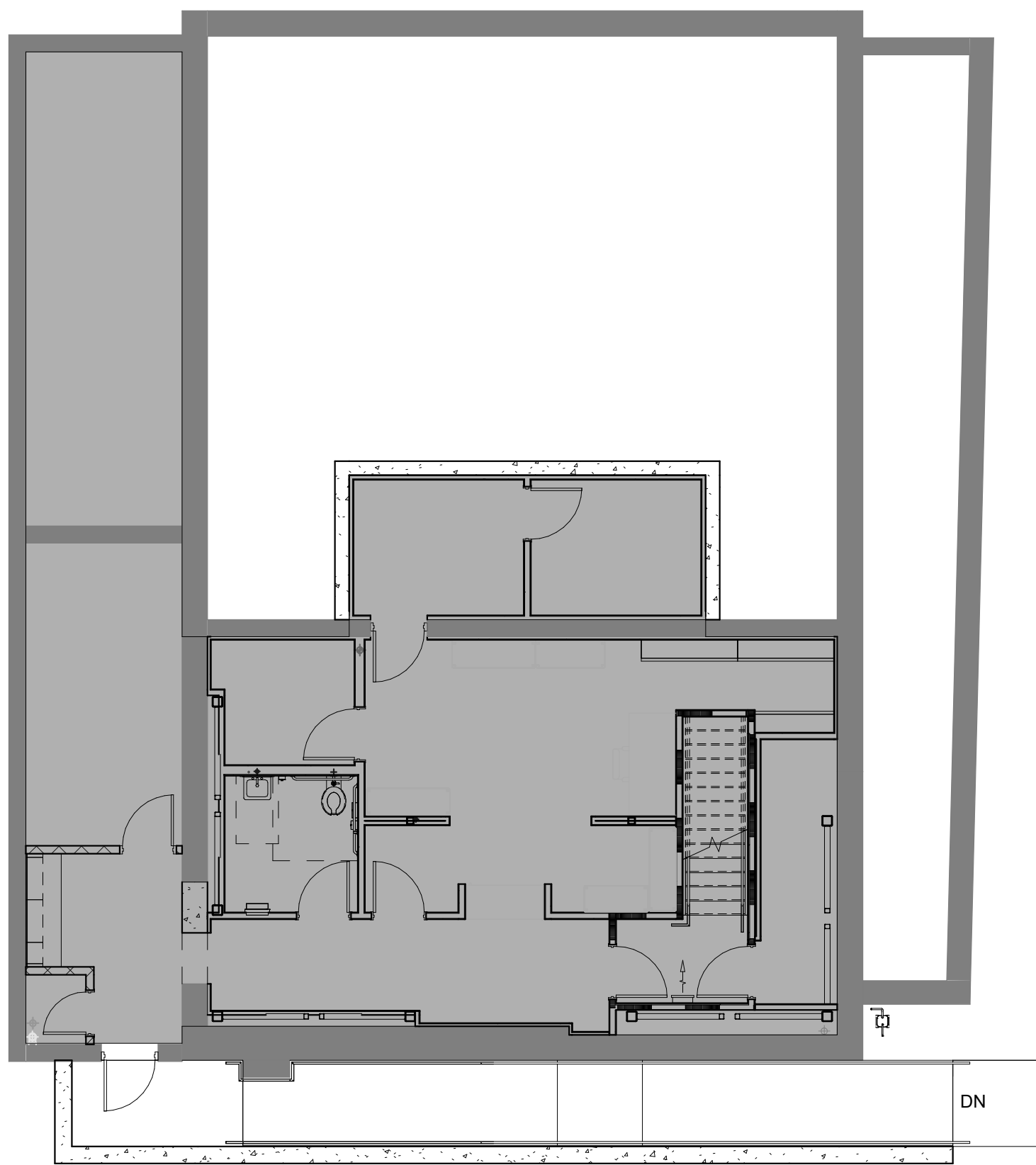
G2.12

LEGEND

TRUE NORTH	PLAN NORTH
	EXISTING WALL TO REMAIN
	NEW WALL
	1 HOUR FIRE RATED PARTITION

D

C



A3 THERMAL ENVELOPE - BASEMENT
1/8" = 1'-0"

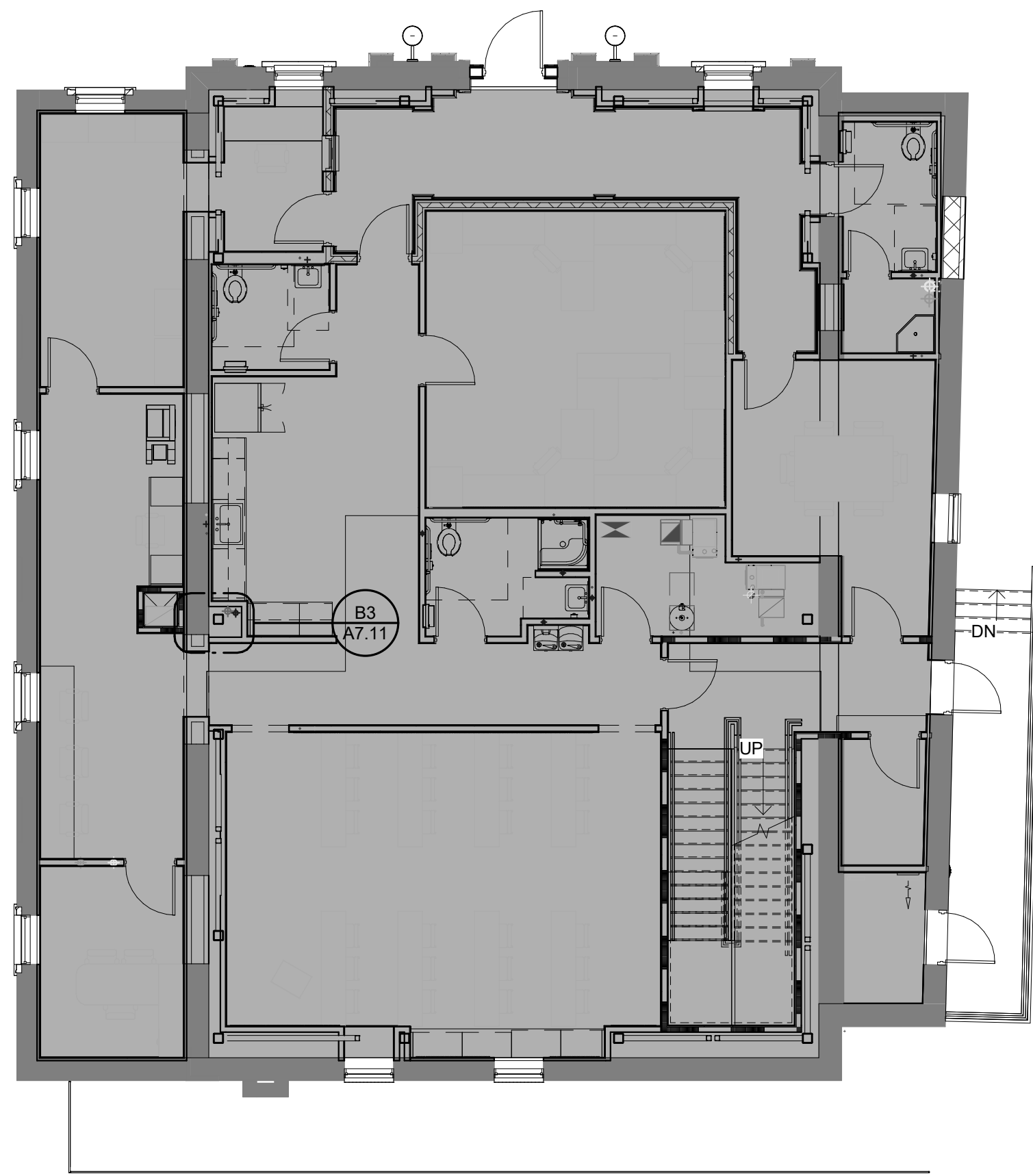
B

A



A1 THERMAL ENVELOPE - SECOND FLOOR
1/8" = 1'-0"

C3 THERMAL ENVELOPE - FIRST FLOOR
1/8" = 1'-0"



THERMAL ENVELOPE LEGEND

TO RECEIVE HVAC & HEAT

NOTES

1. DOORS SHALL COMPLY WITH ENERGY CODE WHEN REQUIRED.

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THERMAL ENVELOPE

G3.01

D	BRACE TO UNDERSIDE OF STRUCTURE @ 4' - 0" O.C. PROVIDE CONT. 48" WIDE INSULATION BLANKET ABOVE CLG CENTERED ON PARTITION CEILING HEIGHT PER RCP 6" MTL. STUDS AT 16" O.C. 5/8" MOISTURE & MOLD RESISTANT BACKER BOARD FOR CERAMIC TILE SOUND ATTENUATION BATT INSULATION FLOOR RUNNER TRACK FLOOR BASE- FINISH PER SCHEDULE ACOUSTICAL SEALANT FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE NOT RATED PARTITION - 0SF6E 1 1/2" = 1'-0"	BRACE TO UNDERSIDE OF STRUCTURE @ 4' - 0" O.C. PROVIDE CONT. 48" WIDE INSULATION BLANKET ABOVE CLG CENTERED ON PARTITION CEILING HEIGHT PER RCP 6" MTL. STUDS AT 16" O.C. 5/8" MOISTURE & MOLD RESISTANT BACKER BOARD FOR CERAMIC TILE SOUND ATTENUATION BATT INSULATION FLOOR RUNNER TRACK FLOOR BASE- FINISH PER SCHEDULE ACOUSTICAL SEALANT FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE NOT RATED PARTITION - 0S6H 1 1/2" = 1'-0"	BRACE TO UNDERSIDE OF STRUCTURE @ 4' - 0" O.C. PROVIDE CONT. 48" WIDE INSULATION BLANKET ABOVE CLG CENTERED ON PARTITION CEILING HEIGHT PER RCP 6" MTL. STUDS AT 16" O.C. 5/8" MOISTURE & MOLD RESISTANT BACKER BOARD FOR CERAMIC TILE SOUND ATTENUATION BATT INSULATION FLOOR RUNNER TRACK FLOOR BASE- FINISH PER SCHEDULE ACOUSTICAL SEALANT FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE NOT RATED PARTITION - 0S6D 1 1/2" = 1'-0"	- HOLD TOP OF STUDS DOWN 3/4" FROM TOP RUNNER WHERE PARTITION EXTENDS TO STRUCTURE ABOVE. - ALL SEALANT SHALL BE CONTINUOUS. - ALL SOUND RATED PARTITIONS SHALL EXTEND FROM FINISHED FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF WITH ACOUSTIC SEALANT UNLESS NOTED OTHERWISE. ALL PENETRATIONS SUCH AS PIPING, CONDUITS, DUCTS, ETC. IN SUCH SEALED OFF WALLS OR PARTITIONS SHALL BE LIKEWISE SEALED OFF ALONG THE PERIMETER OF THE PENETRATIONS. - ALL FIRE AND/OR SMOKE RATED PARTITIONS SHALL EXTEND FROM FINISH FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS UNDERSIDE OF STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF WITH CONTINUOUS SAFING MATERIAL. SAFING MATERIAL SHALL BE HELD IN PLACE WITH A FIRE STOPPING MATERIAL ON BOTH SIDES, SUCH AS RATED GYPSUM WALL BOARD OR LISTED FIREPROOFING MATERIAL. - ALL MANUFACTURED SOUND RATED STC WALLS OR PARTITIONS SHALL HAVE CLOSURE GASKETS AT TOP, BOTTOM, AND SIDES WHERE A SOUND LEAK WOULD OTHERWISE EXIST. ALL PENETRATIONS THROUGH SUCH PARTITIONS SHALL BE GASKET SEALED ALONG THE PENETRATION PERIMETER. - STRUCTURAL STUDS (20 GAUGE MINIMUM) SHALL BE USED WHERE ANY NON-SELF SUPPORTING WALL-HUNG FIXTURES, EQUIPMENT, OR CABINETRY OCCUR AND SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE. SEE TYPICAL SUPPORT DETAILS FOR WALL MOUNTED ITEMS. - ALL 20 GAUGE METAL STUD FRAMED PARTITIONS SHALL BE BRACED ABOVE FINISHED CEILINGS. BRACING SHALL BE AS FOLLOWS: ATTACH A 3-5/8" METAL STUD HORIZONTALLY AND CONTINUOUSLY TO PARTITION 6" MAX ABOVE FINISHED CEILING. THEN PROVIDE A 3-5/8" METAL STUD KICKERS AT 45 TO STRUCTURE AT 4'-0" O.C. KICKERS SHALL HAVE CLIP ANGLES (14 GA) WITH TWO 1/4" ANCHORS. ALL KICKER LOCATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES PERFORMING WORK ABOVE CEILING. SEE ALTERNATE STANDARD BRACING DETAIL. - ALL RATED PARTITIONS SHALL BE IDENTIFIED ABOVE HUNG CEILINGS. - SEE ROOM FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR FINISH MATERIALS SUCH AS CERAMIC TILE, PANELING, ETC. WHICH ARE NOT SHOWN OR INCLUDED IN THESE PARTITION TYPES. - WHERE PARTITION TYPES CHANGE IN A STRAIGHT RUN, THE EXPOSED OR MOST IMPORTANT EXPOSED FINISH FACE AND NOT NECESSARILY THE CENTERLINE OF STUDS, SHALL ALIGN. REVIEW CASES WHICH ARE UNCLEAR WITH THE ARCHITECT PRIOR TO CONSTRUCTING THESE PARTITIONS. - WHERE ITEMS ARE RECESSED INTO RATED PARTITIONS, PROVIDE BOXING, INSULATION ETC. AS REQUIRED TO MAINTAIN THE FIRE RESISTANCE RATING. SEE TYPICAL RECESS FRAMING DETAIL.	HOURLY RATING-NUMBER 0 = UNRATED 1 = 1 HOUR 2 = 2 HOUR 3 = 3 HOUR 4 = 4 HOUR BASE WALL MATERIAL C = CONCRETE M = MASONRY S = STEEL STUD - SINGLE SC = STEEL STUD - DOUBLE (CHASE) SF = STEEL FURRING SW = STEEL SHAFTWALL CH STUD W = WOOD STUD - SINGLE WC = WOOD STUD - DOUBLE (CHASE) WF = WOOD FURRING NOMINAL BASE MATERIAL SIZE OR SHAPE MODIFIER (SEE PARTITION TYPES) 1XX1X	
	BRACE TO UNDERSIDE OF STRUCTURE @ 4' - 0" O.C. PROVIDE CONT. 48" WIDE INSULATION BLANKET ABOVE CLG CENTERED ON PARTITION CEILING HEIGHT PER RCP 6" MTL. STUDS AT 16" O.C. 5/8" MOISTURE & MOLD RESISTANT BACKER BOARD FOR CERAMIC TILE SOUND ATTENUATION BATT INSULATION FLOOR RUNNER TRACK FLOOR BASE- FINISH PER SCHEDULE ACOUSTICAL SEALANT FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE NOT RATED PARTITION - 0SF3C 1 1/2" = 1'-0"	BRACE TO UNDERSIDE OF STRUCTURE @ 4' - 0" O.C. PROVIDE CONT. 48" WIDE INSULATION BLANKET ABOVE CLG CENTERED ON PARTITION CEILING HEIGHT PER RCP 6" MTL. STUDS AT 16" O.C. 5/8" MOISTURE & MOLD RESISTANT BACKER BOARD FOR CERAMIC TILE SOUND ATTENUATION BATT INSULATION FLOOR RUNNER TRACK FLOOR BASE- FINISH PER SCHEDULE ACOUSTICAL SEALANT FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE NOT RATED PARTITION - 0SF3 1 1/2" = 1'-0"	BRACE TO UNDERSIDE OF STRUCTURE @ 4' - 0" O.C. PROVIDE CONT. 48" WIDE INSULATION BLANKET ABOVE CLG CENTERED ON PARTITION CEILING HEIGHT PER RCP 6" MTL. STUDS AT 16" O.C. 5/8" MOISTURE & MOLD RESISTANT BACKER BOARD FOR CERAMIC TILE SOUND ATTENUATION BATT INSULATION FLOOR RUNNER TRACK FLOOR BASE- FINISH PER SCHEDULE ACOUSTICAL SEALANT FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE NOT RATED PARTITION - 0S3L 1 1/2" = 1'-0"			NOT RATED STC RATING: 43 SOUND TEST: NGC 2016041 PARTITION - 0S3H 1 1/2" = 1'-0"
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NORTH CAROLINA
REGISTERED
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ARCHITECT
MICHEL SALVATORE, SUI

JULY 7, 2025

CREECH & ASSOCIATES, P.L.L.C.
REGISTERED ARCHITECTURAL COMPANY
NORTH CAROLINA
CERT. NO.
52304
CHARLOTTE, N.C.

CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

PARTITION TYPES AND SHELL ASSEMBLIES

G4.01

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1. HOLD TOP OF STUDS DOWN 3/4" FROM TOP RUNNER WHERE PARTITION EXTENDS TO STRUCTURE ABOVE.

2. ALL SEALANT SHALL BE CONTINUOUS.

3. ALL SOUND RATED PARTITIONS SHALL EXTEND FROM FINISHED FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF WITH ACOUSTIC SEALANT UNLESS NOTED OTHERWISE. ALL PENETRATIONS SUCH AS PIPING, CONDUITS, DUCTS, ETC. IN SUCH SEALED OFF WALLS OR PARTITIONS SHALL BE LIKewise SEALED OFF ALONG THE PERIMETER OF THE PENETRATIONS.

4. ALL FIRE AND/OR SMOKE RATED PARTITIONS SHALL EXTEND FROM FINISH FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS UNDERSIDE OF STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF WITH CONTINUOUS SAFING MATERIAL. SAFING MATERIAL SHALL BE HELD IN PLACE WITH A FIRE STOPPING MATERIAL ON BOTH SIDES, SUCH AS RATED GYPSUM WALL BOARD OR LISTED FIREPROOFING MATERIAL.

5. ALL MANUFACTURED SOUND RATED STC WALLS OR PARTITIONS SHALL HAVE CLOSURE GASKETS AT TOP, BOTTOM, AND SIDES WHERE A SOUND LEAK WOULD OTHERWISE EXIST. ALL PENETRATIONS THROUGH SUCH PARTITIONS SHALL BE GASKET SEALED ALONG THE PENETRATION PERIMETER.

6. STRUCTURAL STUDS (20 GAUGE MINIMUM) SHALL BE USED WHERE ANY NON-SELF SUPPORTING WALL-HUNG FIXTURES, EQUIPMENT, OR CABINETRY OCCUR AND SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE. SEE TYPICAL SUPPORT DETAILS FOR WALL MOUNTED ITEMS.

7. ALL 20 GAUGE METAL STUD FRAMED PARTITIONS SHALL BE BRACED ABOVE FINISHED CEILINGS. BRACING SHALL BE AS FOLLOWS: ATTACH A 3-5/8" METAL STUD HORIZONTALLY AND CONTINUOUSLY TO PARTITION 8" MAX ABOVE FINISHED CEILING. THEN PROVIDE A 3-5/8" METAL STUD KICKERS AT 45 TO STRUCTURE AT 4'-0" O.C. KICKERS SHALL HAVE CLIP ANGLES (14 GA) WITH TWO 1/4" ANCHORS - ALL KICKER LOCATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES PERFORMING WORK ABOVE CEILING. SEE ALTERNATE STANDARD BRACING DETAIL.

9. ALL RATED PARTITIONS SHALL BE IDENTIFIED ABOVE HUNG CEILINGS.

10. SEE ROOM FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR FINISH MATERIALS SUCH AS CERAMIC TILE, PANELING, ETC. WHICH ARE NOT SHOWN OR INCLUDED IN THESE PARTITION TYPES.

11. WHERE PARTITION TYPES CHANGE IN A STRAIGHT RUN, THE EXPOSED OR MOST IMPORTANT EXPOSED FINISH FACE AND NOT NECESSARILY THE CENTERLINE OF STUDS, SHALL ALIGN. REVIEW CASES WHICH ARE UNCLEAR WITH THE ARCHITECT PRIOR TO CONSTRUCTING THESE PARTITIONS.

12. WHERE ITEMS ARE RECESSED INTO RATED PARTITIONS, PROVIDE BOXING, INSULATION ETC. AS REQUIRED TO MAINTAIN THE FIRE RESISTANCE RATING. SEE TYPICAL RECESS FRAMING DETAIL.

HOURLY RATING-NUMBER

0 = UNRATED

1 = 1 HOUR

2 = 2 HOUR

3 = 3 HOUR

4 = 4 HOUR

BASE WALL MATERIAL

C = CONCRETE

M = MASONRY

S = STEEL STUD - SINGLE

SC = STEEL STUD - DOUBLE (CHASE)

SF = STEEL FURRING

SW = STEEL SHAFTWALL CH STUD

W = WOOD STUD - SINGLE

WC = WOOD STUD - DOUBLE (CHASE)

WF = WOOD FURRING

NOMINAL BASE MATERIAL SIZE OR SHAPE

MODIFIER (SEE PARTITION TYPES)

1XX1X

C

1. FOR COMMON INTERIOR WALLS, PARTITIONS, AND FLOOR/CEILING ASSEMBLIES BETWEEN ADJACENT DWELLING UNITS OR BETWEEN DWELLING UNITS AND ADJACENT PUBLIC AREAS SUCH AS HALLS, CORRIDORS, STAIRS OR SERVICE AREAS, REFER TO SECTION 1207 OF THE 2018 NCSCB FOR MINIMUM AIRBORNE SOUND AND STRUCTURE-BORNE SOUND RATINGS.

2. STUD SPACING IN ASSEMBLIES SHALL COMPLY WITH UL ASSEMBLY REQUIREMENTS, REFER TO STRUCTURAL DRAWINGS FOR ACTUAL SPACING.

3. GC SHALL INSTALL ALL RATED ASSEMBLIES PER UL RATED ASSEMBLIES INDICATED ON DRAWINGS

4. USE OF WATER RESISTANT BACKER BOARD MAY BE LIMITED TO ONLY THOSE AREAS OF A WALL WHICH ARE SCHEDULED TO OR INDICATED BY DETAILS TO RECEIVE CERAMIC TILE FINISH

5. MOISTURE AND MOLD RESISTANT GYPSUM WALL BOARD TO BE USED ON WET WALLS IN BATHROOMS, SHOWER ROOMS, AND LAUNDRY ROOMS.

6. PROVIDE SLOTTED EXPANSION ANCHORS/CLIPS AT TOP PLATE WHERE PARTITION IS SECURED TO BOTTOM CHORD OF ROOF TRUSSES

7. BULLET RESISTANT WALL ASSEMBLIES ONLY: INSTALL BULLET RESISTANT FOUR INCH WIDE BATTEN STRIPS AT ALL PANEL JOINTS AND A BULLET RESISTANT BACKER AT ALL WALL PENETRATIONS

B

BOTTOM OF RATING OR STRUCTURAL ABOVE (SEE STRUCTURAL DRAWINGS)

CEILING RUNNER TRACK

CEILING HEIGHT PER RCP

5/8" GWB

5/8" MOISTURE & MOLD RESISTANT BACKER BOARD FOR CERAMIC TILE

SOUND ATTENUATION BATT INSULATION

8" MTL STUDS AT 16" O.C.

FLOOR RUNNER TRACK

FLOOR BASE- FINISH PER SCHEDULE

ACOUSTICAL SEALANT

FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE

9 1/4"

NOT RATED

PARTITION - 0S8D
1 1/2" = 1'-0"

BOTTOM OF RATING OR STRUCTURE ABOVE (SEE STRUCTURAL DRAWINGS)

CEILING HEIGHT VERIFY ON RCP

6" CMU GROUTED SOLID

FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE

TOTAL ASSEMBLY- STC-45-56 MIN.
SOURCE: NCMA Tek-Note 13-1B

PARTITION - 0M6
1 1/2" = 1'-0"

A

BOTTOM OF RATING OR STRUCTURAL ABOVE (SEE STRUCTURAL DRAWINGS)

FIRE SEALANT

J-RUNNER TRACK

4" C-HI SHAPED STUDS, SEE STRUCTURAL

GLASS FIBER INSULATION

1" GYPSUM LINER PANEL

5/8" GWB

J-RUNNER TRACK

FIRE SEALANT

FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE

4 5/8"

1 HOUR RATING

UL DESIGN NO.: U415
STC: 47
SOUND TEST: NGC 2015044

PARTITION - 1SW4
1 1/2" = 1'-0"

BOTTOM OF RATING OR STRUCTURAL ABOVE (SEE STRUCTURAL DRAWINGS)

FIRE SEALANT

CEILING RUNNER TRACK

CEILING HEIGHT PER RCP

TWO (2) LAYERS OF 5/8" GWB

SOUND ATTENUATION BATT INSULATION

3 5/8" MTL. STUDS AT 16" O.C.

FLOOR RUNNER TRACK

FLOOR BASE- FINISH PER SCHEDULE

FIRE SEALANT

FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE

1 HOUR RATING

UL DESIGN NO.: U497
STC RATING: 44
SOUND TEST: NGC 2514

PARTITION - 1SF3
1 1/2" = 1'-0"

BOTTOM OF RATING OR STRUCTURAL ABOVE (SEE STRUCTURAL DRAWINGS)

FIRE SEALANT

CEILING RUNNER TRACK

CEILING HEIGHT PER RCP

5/8" GWB (EACH SIDE)

SOUND ATTENUATION BATT INSULATION

3 5/8" MTL. STUDS AT 16" O.C.

FLOOR RUNNER TRACK

FLOOR BASE- FINISH PER SCHEDULE

FIRE SEALANT

FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE

4 7/8"

1 HOUR RATING

UL DESIGN NO.: U419
STC RATING: 44
SOUND TEST: NGC 2514

PARTITION - 1S3
1 1/2" = 1'-0"

BOTTOM OF RATING OR STRUCTURAL ABOVE (SEE STRUCTURAL DRAWINGS)

ACOUSTICAL SEALANT

CEILING RUNNER TRACK

CEILING HEIGHT PER RCP

5/8" GWB (EACH SIDE)

SOUND ATTENUATION BATT INSULATION

3 5/8" MTL. STUDS AT 16" O.C.

FLOOR RUNNER TRACK

FLOOR BASE- FINISH PER SCHEDULE

ACOUSTICAL SEALANT

FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE

7 1/4"

NOT RATED

STC RATING: 43
SOUND TEST: NGC 2016041

PARTITION - 0S8
1 1/2" = 1'-0"

BOTTOM OF RATING OR STRUCTURE ABOVE (SEE STRUCTURAL DRAWINGS)

ACOUSTICAL SEALANT

CEILING RUNNER TRACK

CEILING HEIGHT VERIFY ON RCP

1 5/8" MTL STUD WITH BATT INSULATION

4" CMU GROUTED SOLID

FLOOR BASE- FINISH PER SCHEDULE

ACOUSTICAL SEALANT

FLOOR STRUCTURE (SEE STRUCTURAL DRAWINGS) FINISH PER SCHEDULE

8 1/8"

TOTAL ASSEMBLY- STC-45-56 MIN.
SOURCE: NCMA Tek-Note 13-1B

PARTITION - 0M4
1 1/2" = 1'-0"

CREECH & ASSOCIATES

1000 W. Morehead St.
Suite 120
Charlotte, NC 28208
p 704.376.6000
www.creechassociates.com

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NORTH CAROLINA
REGISTERED
13014
ARCHITECT
MICHEL SALVATORE SUIP

JULY 7, 2025

CREECH & ASSOCIATES, P.L.L.C.
REGISTERED ARCHITECTURAL COMPANY
CERT. NO. 52304
NORTH CAROLINA
CHARLOTTE, N. C.

CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

PARTITION TYPES AND SHELL ASSEMBLIES

G4.02

D

C

B

A



JULY 7, 2025



CANTON POLICE STATION RENO

No.	Description	Date

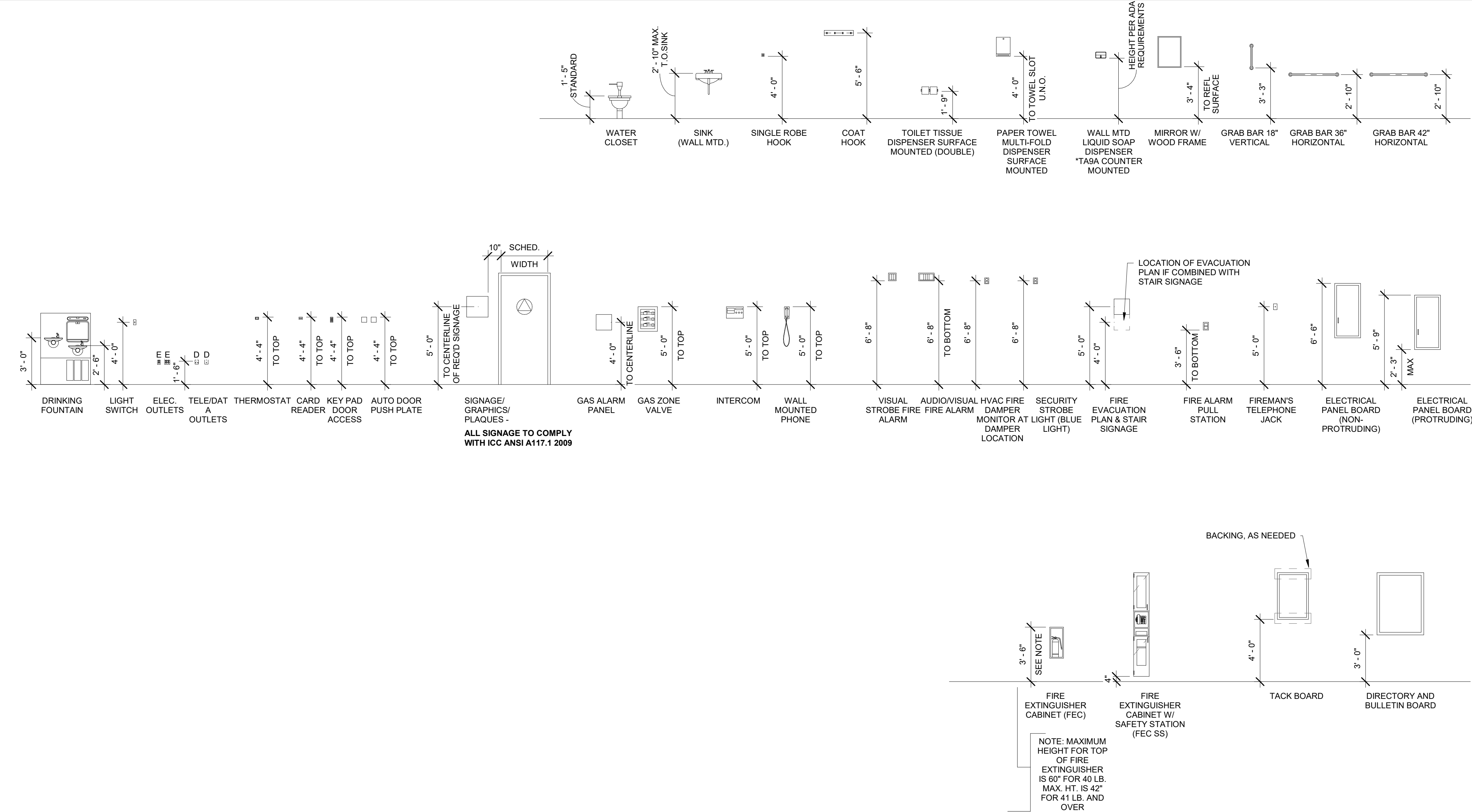
Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

MOUNTING HEIGHTS

G4.11



TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"

D

C

B

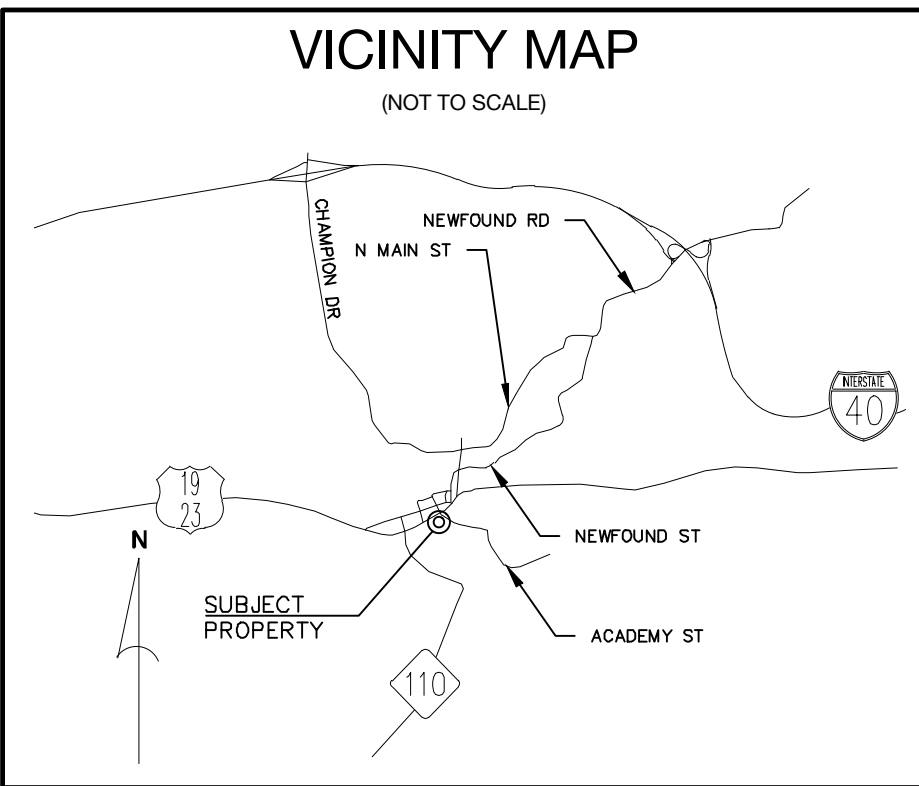
A

CANTON POLICE STATION RENO

TOWN OF CANTON, NORTH CAROLINA

PREPARED FOR:
TOWN OF CANTON, NC
85 SUMMER ST.
CANTON, NC 28716
ZEB SMATHERS
(828) 646-3419

INDEX OF SHEETS		
SHEET NO.	TITLE	REV.
C000	COVER	
C001	SURVEY	
C100	EXISTING CONDITIONS & DEMOLITION PLAN	
C201	SITE PLAN	
C301	ROUGH GRADING & EROSION CONTROL PLAN	
C401	STORM DRAINAGE & FINE GRADING PLAN	
C701	WATER PLAN	
C921	SITE DETAILS	
C931	EROSION CONTROL DETAILS	
C939	NOG01	
C941	STORM DETAILS	
C942	STORM DETAILS	
C971	WATER DETAILS	



DEVELOPMENT DATA	
OWNER/DEVELOPER:	TOWN OF CANTON, NC 85 SUMMER ST. CANTON, NC 28716 ZEB SMATHERS (828) 646-3419
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 168 PATTON AVENUE ASHEVILLE, NC 28801 MICHAEL KELLER, P.E. (828) 252-5388

1000 W. Morehead St.
Suite 120
Charlotte, NC 28208
p 704.376.6000
www.creechassociates.com

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CANTON POLICE STATION RENO

COVER FOR:

TOWN OF CANTON, NC - TOWN OF CANTON, NORTH CAROLINA

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

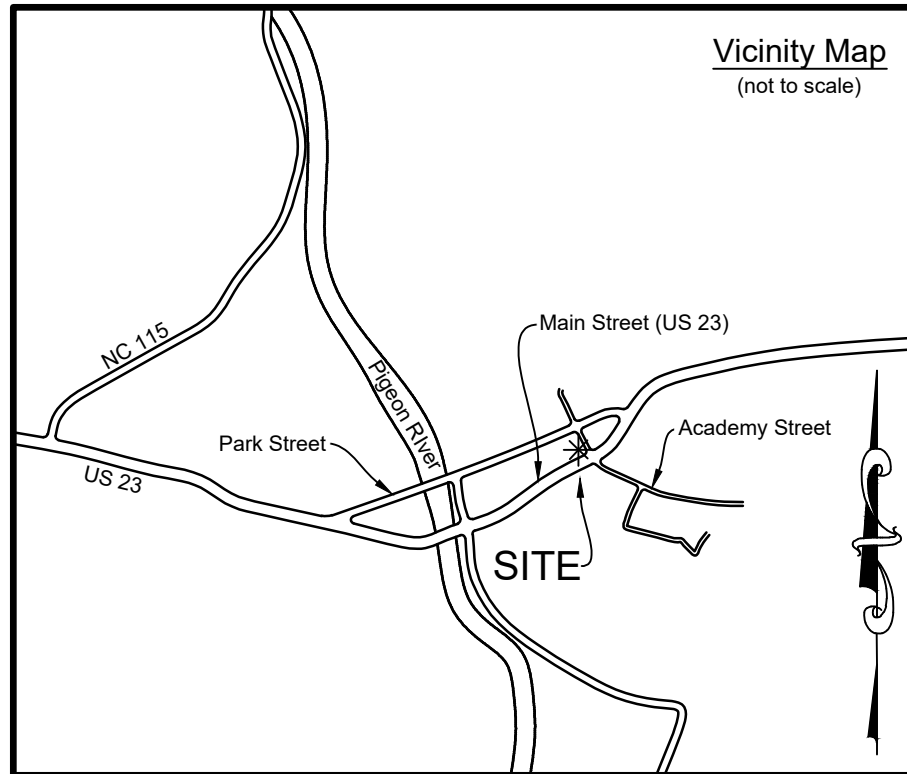
Project Number: 2023-001-01

Date: JULY 7, 2025

DRAWN BY: MFK
CDC PROJECT NO.: 22903

SHEET

C000



- Notes
- This survey is of existing parcels of land and does not create a new street or change an existing street.
 - Areas, if shown, are calculated by coordinate computation method.
 - This property may be subject to rights-of-way, easements, reservations and restrictions, written and unwritten, recorded and unrecorded, not discovered during the course of this survey.
 - The certification shown hereon is not a certification of title, zoning or freedom from encumbrances.
 - Adjoining property owner information shown per the Haywood County GIS website.
 - This survey was conducted without benefit of title search.
 - Underground utilities shown are based upon paint markings and above ground structures. Call 811 before digging.
 - All distances shown hereon are horizontal ground distances (U.S. survey feet) unless otherwise noted. To obtain grid distances, utilize a combined factor of 0.999762709.
 - A portion of the subject property (PIN: 8657-80-2711) lies within the "0.2% Annual Chance Flood Hazard" area according to the National Flood Insurance Program, flood insurance rate map 3700865700J, effective date 4/3/2012.
 - All coordinates shown are N.C. grid, NAD '83 (2011) coordinates.
 - The subject property is not zoned per Haywood County. No zoning report was provided. Surveyor was unable to determine Town of Canton zoning. Building setbacks may apply to the subject property from other sources.
 - Note that creeks, rivers and wetlands shown, or not shown hereon may be subject to buffers.
 - Elevations shown hereon are relative to the North American Vertical Datum of 1988 utilizing Geoid18 and NGS monument "25 EG 7". See GNS5 certification. Contour intervals shown are 1 foot and 5 feet for minor and major contours, respectively.

I, **Andrew M. Wolfe**, certify the following information was used in conjunction with the GNS5 portion of the survey:

(1) Class of survey: Vertical Control (21 NCAC 56.1605(a)): Class **C** (GPS)
Horizontal Accuracy (21 NCAC 56.1606(c)(1)): Class **A**
Vertical Accuracy (21 NCAC 56.1606(c)(2)): Class **C** (GPS)

(2) Type of GNS5 field procedure: **Real Time Kinematic**

(3) Horizontal Positional Accuracy (20): **0.06'**
Vertical Positional Accuracy (20): **0.08'**

(4) Dates of GNS5 survey: **3/3/2025**

(5) Datum/EPOCH: **NAD '83 (2011) Epoch: 2010.00, NAVD '88**

(6) Published/Fixed-control use: **NGS Monument "25 EG 7"**

(7) Geoid model: **Geoid 18**

(8) Combined grid factor(s): **0.999762709**

(9) Localization Point: Northing: **670385.15'**
Easting: **858426.88'**
Elevation: **2540.82'**

(9) Units: **U.S. Survey Feet**

I, **Andrew M. Wolfe**, certify that this vertical control survey was completed to the Class **C** (GPS) standard [(21 NCAC 56.1605(a)) under my direct and responsible charge from an actual survey made under my supervision.

I, **Andrew M. Wolfe**, certify that this project was completed under my direct and responsible charge from an actual survey made under my supervision; that this **Topographical Ground** survey was performed at the **95%** percent confidence level to meet Federal Geographic Data Committee standards; that this survey was performed to meet the requirements for a topographic survey to the horizontal accuracy of Class **A** and vertical accuracy to the Class **C** (GPS) standard, and that the original data was obtained on **3/3/2025 - 4/8/2025**; that contours shown as dashed lines may not meet the stated standard; and all coordinates are based on **NAD '83** and realization **2011** and all elevations are based on **NAVD '88**.

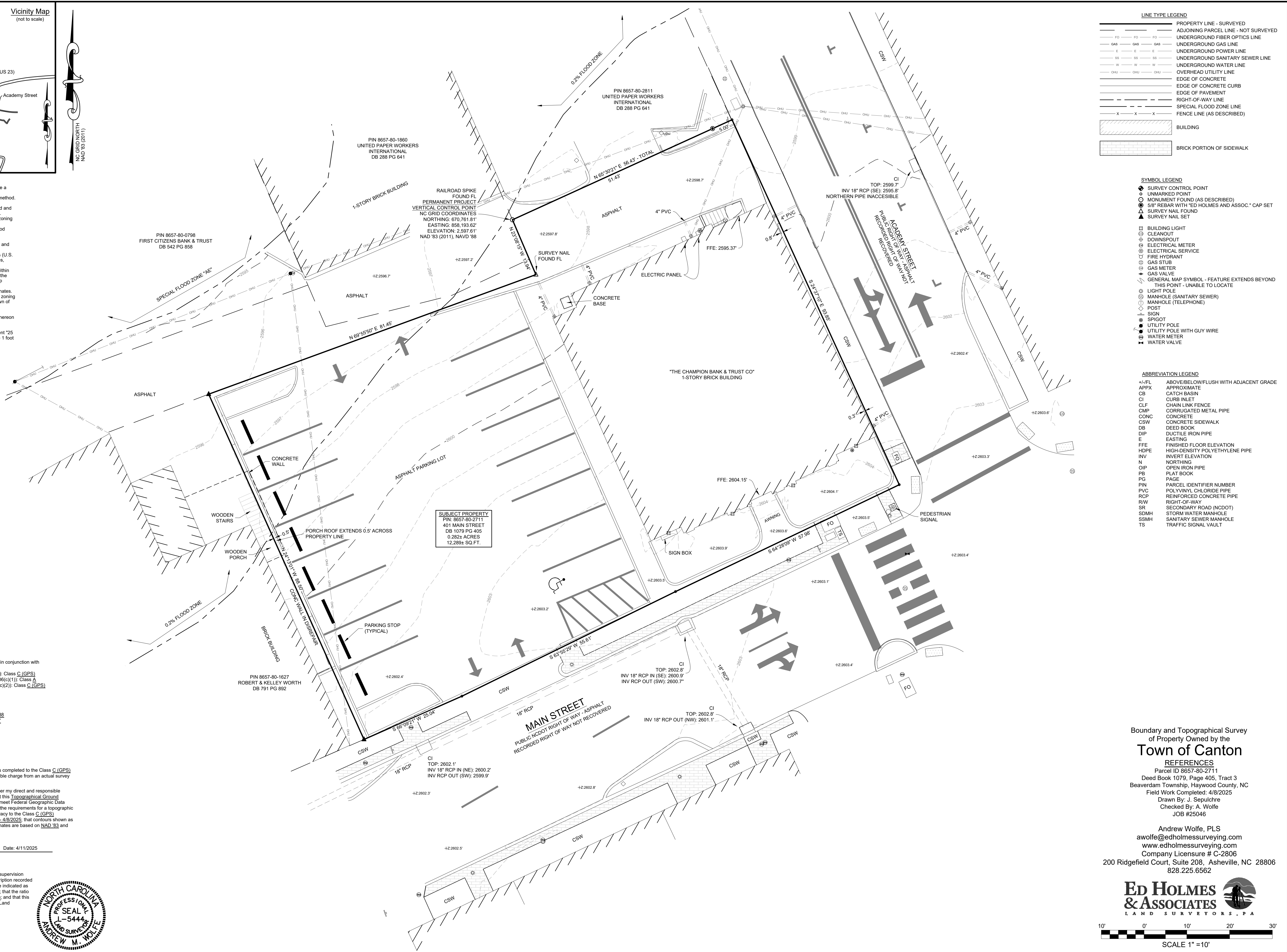
Andrew Wolfe
Professional Land Surveyor
License Number L-5444

Date: 4/11/2025

I, **Andrew M. Wolfe**, certify that this map was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book **1079**, Page **405**); that the boundaries not surveyed are indicated as drawn from information in reference sources as shown hereon; that the ratio of precision or positional accuracy is Class **A** ($<0.10' \pm 50\text{ppm}$); and that this map meets the requirements of The Standards of Practice for Land Surveying in North Carolina (21 NCAC 56.1600).

This 11th day of April, 2025.

Andrew Wolfe
Professional Land Surveyor
License Number L-5444



LINE TYPE LEGEND	
	PROPERTY LINE - SURVEYED
	ADJOINING PARCEL LINE - NOT SURVEYED
	UNDERGROUND FIBER OPTICS LINE
	UNDERGROUND GAS LINE
	UNDERGROUND POWER LINE
	UNDERGROUND SANITARY SEWER LINE
	UNDERGROUND WATER LINE
	OVERHEAD UTILITY LINE
	EDGE OF CONCRETE
	EDGE OF CONCRETE CURB
	EDGE OF PAVEMENT
	RIGHT-OF-WAY LINE
	SPECIAL FLOOD ZONE LINE
	FENCE LINE (AS DESCRIBED)
	BUILDING
	BRICK PORTION OF SIDEWALK

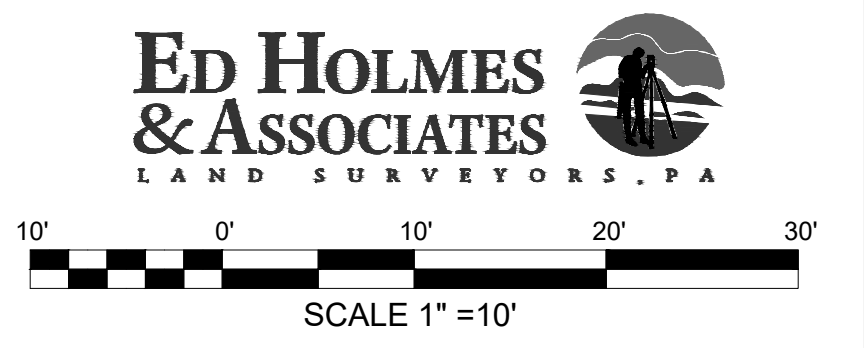
SYMBOL LEGEND	
	SURVEY CONTROL POINT
	UNMARKED POINT
	MONUMENT FOUND (AS DESCRIBED)
	5/8" REBAR WITH "ED HOLMES AND ASSOC." CAP SET
	SURVEY NAIL FOUND
	SURVEY NAIL SET
	BUILDING LIGHT
	CLEANOUT
	DOWNSPOUT
	ELECTRICAL METER
	ELECTRICAL SERVICE
	FIRE HYDRANT
	GAS STUB
	GAS METER
	GAS VALVE
	GENERAL MAP SYMBOL - FEATURE EXTENDS BEYOND THIS POINT - UNABLE TO LOCATE
	LIGHT POLE
	MANHOLE (SANITARY SEWER)
	MANHOLE (TELEPHONE)
	POST
	SIGN
	SPIGOT
	UTILITY POLE
	UTILITY POLE WITH GUY WIRE
	WATER METER
	WATER VALVE

ABBREVIATION LEGEND	
+/-/FL	ABOVE/BELOW/FLUSH WITH ADJACENT GRADE
APPX	APPROXIMATE
CB	CATCH BASIN
CI	CURB INLET
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CSW	CONCRETE SIDEWALK
DB	DEED BOOK
DIP	DUCTILE IRON PIPE
E	EASTING
FFE	FINISHED FLOOR ELEVATION
HOPE	HIGH-DENSITY POLYETHYLENE PIPE
INV	INVERT ELEVATION
N	NORTHING
OP	OPEN IRON PIPE
PB	PLAT BOOK
PG	PAGE
PIN	PARCEL IDENTIFIER NUMBER
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT-OF-WAY
SR	SECONDARY ROAD (NC DOT)
SDMH	STORM WATER MANHOLE
SSMH	SANITARY SEWER MANHOLE
TS	TRAFFIC SIGNAL VAULT

Boundary and Topographical Survey
of Property Owned by the
Town of Canton

REFERENCES
Parcel ID 8657-80-2711
Deed Book 1079, Page 405, Tract 3
Beaverdam Township, Haywood County, NC
Field Work Completed: 4/8/2025
Drawn By: J. Sepulchre
Checked By: A. Wolfe
JOB #25046

Andrew Wolfe, PLS
awolfe@edholmessurveying.com
www.edholmessurveying.com
Company Licensure # C-2806
200 Ridgely Court, Suite 208, Asheville, NC 28806
828.225.6562



D

C

B

A

- SITE NOTES**
- ALL SITEWORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL REGULATORY STANDARDS AND ALL REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS.
 - SINGLE-PHASE CONSTRUCTION.
 - ALL WORK MUST BE PERFORMED BY A NORTH CAROLINA LICENSED CONTRACTOR.
 - TO SCHEDULE THE REQUIRED INSPECTIONS ON ALL WORK, CALL THE CIVIL DESIGN CONCEPTS INSPECTIONS HOTLINE AT 828-771-4755, OR EMAIL AT INSPECTIONS@CDCGO.COM. FAILURE TO SCHEDULE INSPECTIONS MAY RESULT IN UNCOVERING OR REDOING WORK.
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION. CONTACT ENGINEER TO CONFIRM IF ADDITIONAL PERMITS ARE NEEDED.
 - CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES (SHOWN TO REMAIN) AND NEWLY COMPLETED WORK DURING CONSTRUCTION. ANY DAMAGE INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY IS TO BEGIN. THE CONTRACTOR SHALL NOTIFY 11000 AT 1-800-632-4949 OR 811, 72 HOURS BEFORE CONSTRUCTION BEGINS.
 - SIDEWALKS SHALL BE CONSTRUCTED IN ORDER TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. SIDEWALKS TO MEET ALL ADA PROWALK STANDARDS. CONTRACTOR TO NOTIFY ENGINEER AFTER FORMING BUT PRIOR TO POURING SIDEWALK. ANY SIDEWALK/CROSSWALK NOT INSTALLED TO REQUIRED STANDARDS SHALL BE REMOVED AND REPLACED AT CONTRACTORS EXPENSE.
 - ALL RADII LISTED ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL ROAD/PARKING LOT IMPROVEMENTS, STRIPING AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION AND THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). CONTRACTOR MAY USE A PAINT SUITABLE FOR ASPHALT APPLICATION IN LIEU OF THERMOPLASTIC WITH PRIOR APPROVAL FROM THE ENGINEER.
 - CURB AND GUTTER ON THE HIGH SIDE OF PAVED AREAS AND ROADS SHALL BE CONSTRUCTED WITH SPILLOUT CURB AND GUTTER. CURB AND GUTTER ON THE LOW SIDE SHALL BE CONSTRUCTED WITH STANDARD CURB AND GUTTER. REFER TO SPILLOUT CURB AND GUTTER DETAILS. CURB END TREATMENT SHALL BE APPLIED AT ALL CURB ENDS. REFER TO CURB END TREATMENT DETAIL.
 - PROPOSED ROADS TO BE PRIVATE. NCDOT IS NOT RESPONSIBLE FOR ANY ROAD MAINTENANCE.

OWNER SHALL OBTAIN REQUIRED APPROVALS FOR ALLEY CLOSURE PRIOR TO PERFORMING ANY WORK WITHIN ALLEY

PROPOSED ROAD CLOSED SIGNAGE (SEE DETAIL D2.07)

NO ACCESS TO ACADEMY STREET FROM ADAMS STREET UPON COMPLETION

PROPOSED 1 - 8'x18' ADA PARKING SPACES (TYP)
1 - 8' WIDE VAN-ACCESSIBLE LOADING AISLE
1 - HANDICAP PARKING SIGNS (SEE DETAIL D2.04)
1 - WHEEL STOPS (SEE DETAIL D2.06)
NOTES:
-ADA SYMBOLS TO NOT BE STRIPED

PROPOSED STAND-UP CURB (SEE DETAIL D2.03)

PROPOSED LIGHT DUTY ASPHALT PAVEMENT (TYP) (SEE DETAIL D2.13)

SITE LEGEND

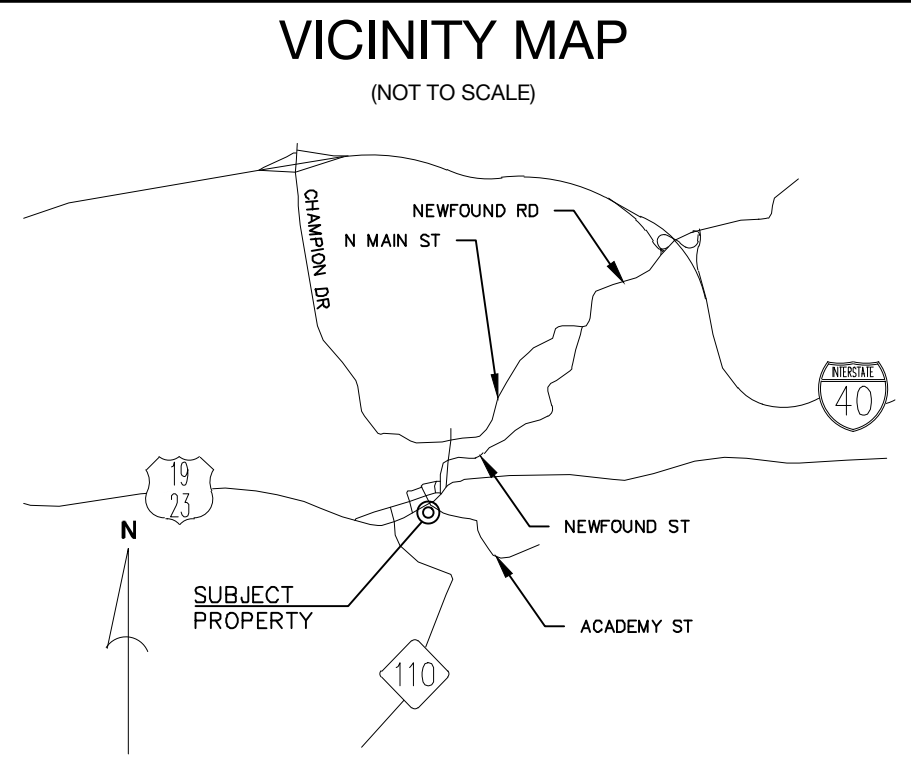
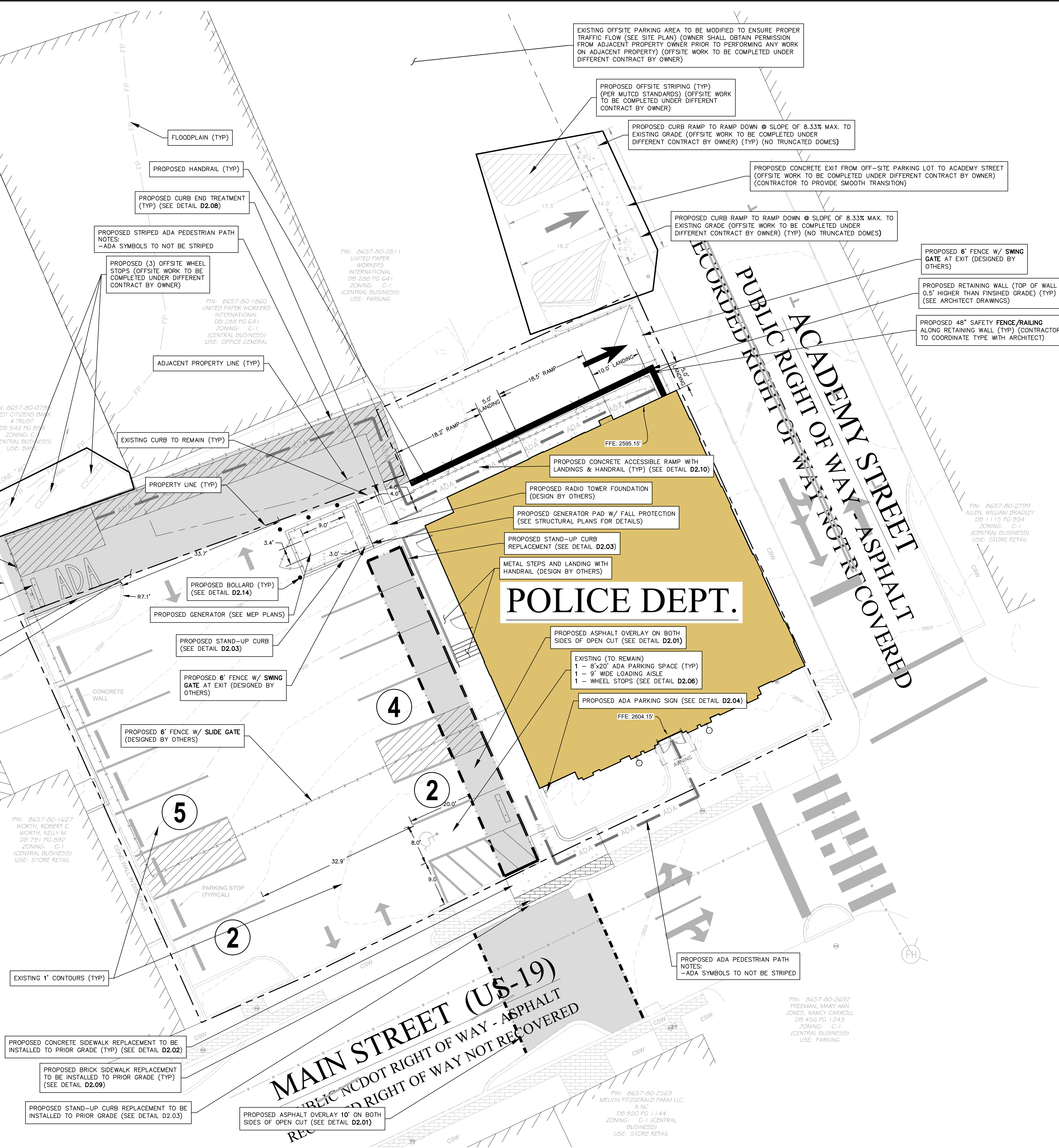
LOT LINE

EASEMENT LINE

ADA ROUTE

PROPOSED CONCRETE PAVEMENT

PROPOSED CONCRETE SIDEWALK



DEVELOPMENT DATA

OWNER/DEVELOPER: TOWN OF CANTON, NC
85 SUMMER ST.
CANTON, NC 28716
ZEB SMATHERS
(828) 646-3419

CONTACT:

CIVIL ENGINEER: CIVIL DESIGN CONCEPTS, P.A.
168 PATTON AVENUE
ASHEVILLE, NC 28801
MICHAEL KLEINER, P.E.
(828) 225-5388

CONTACT:

SURVEYOR: ED HOLMES & ASSOCIATES
200 RIDGEFIELD COURT, SUITE 208
ASHEVILLE, NC 28805
ANDREW WOLFE, PLS
(828) 225-6562

CONTACT:

ARCHITECT: CREECH & ASSOCIATES
1000 WEST MOREHEAD STREET, SUITE 120
CHARLOTTE, NC 28208
MICHAEL SUPINA, AIA, NCARB
(704) 376-6000

PROJECT DATA

PIN: 8657-80-2711
ADDRESS: 401 MAIN ST.
DEED BOOK/PAGE: 1079/405
PROJECT ACREAGE: 0.28± ACRES
CURRENT ZONING: C-1 (CENTRAL BUSINESS)

SETBACKS:
FRONT: N/A
SIDES: N/A
REAR: N/A
CORNER: N/A
HEIGHT: 50'

DISTURBED AREA: 0.35 AC

IMPERVIOUS AREA: PBE 0.13 ACRES (46%) POST 0.11 ACRES (39%)
PERVIOUS AREA: 0.15 ACRES (54%) 0.17 ACRES (61%)

ZONING DATA

PARKING CALCULATIONS:

VEHICULAR: PER SECTION 9-4062, ONE SPACE PER 200 SF OF GFA EXCEPT IN CENTRAL BUSINESS DISTRICT

GFA: N/A
REQUIRED: N/A
EXISTING: 16
PROPOSED: 14

ACCESSIBLE:
EXISTING: 1 (1 ON EACH SIDE OF FENCE)
PROPOSED: 2 (1 ON EACH SIDE OF FENCE)

CDC INSPECTIONS HOTLINE:
828-771-4755 OR INSPECTIONS@CDCGO.COM

811
Know what's below.
Call before you dig.

NORTH

SITE PLAN

GRAPHIC SCALE

10 0 5 10 20 30
(IN FEET)
1 inch = 10 ft.

1000 W. Morehead St.
Suite 120
Charlotte, NC 28208
p 704.376.6000
www.creechassociates.com

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PROGRESS
DRAWING
DO NOT USE FOR
CONSTRUCTION

CANTON POLICE STATION RENO

TOWN OF CANTON, NC - TOWN OF CANTON, NORTH CAROLINA

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

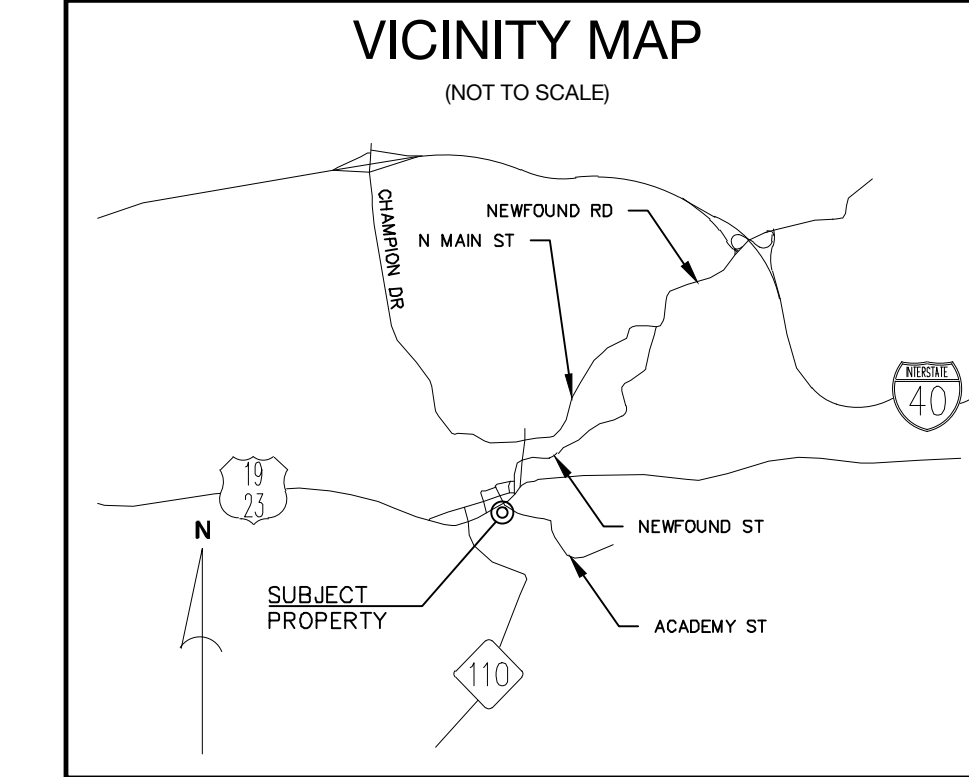
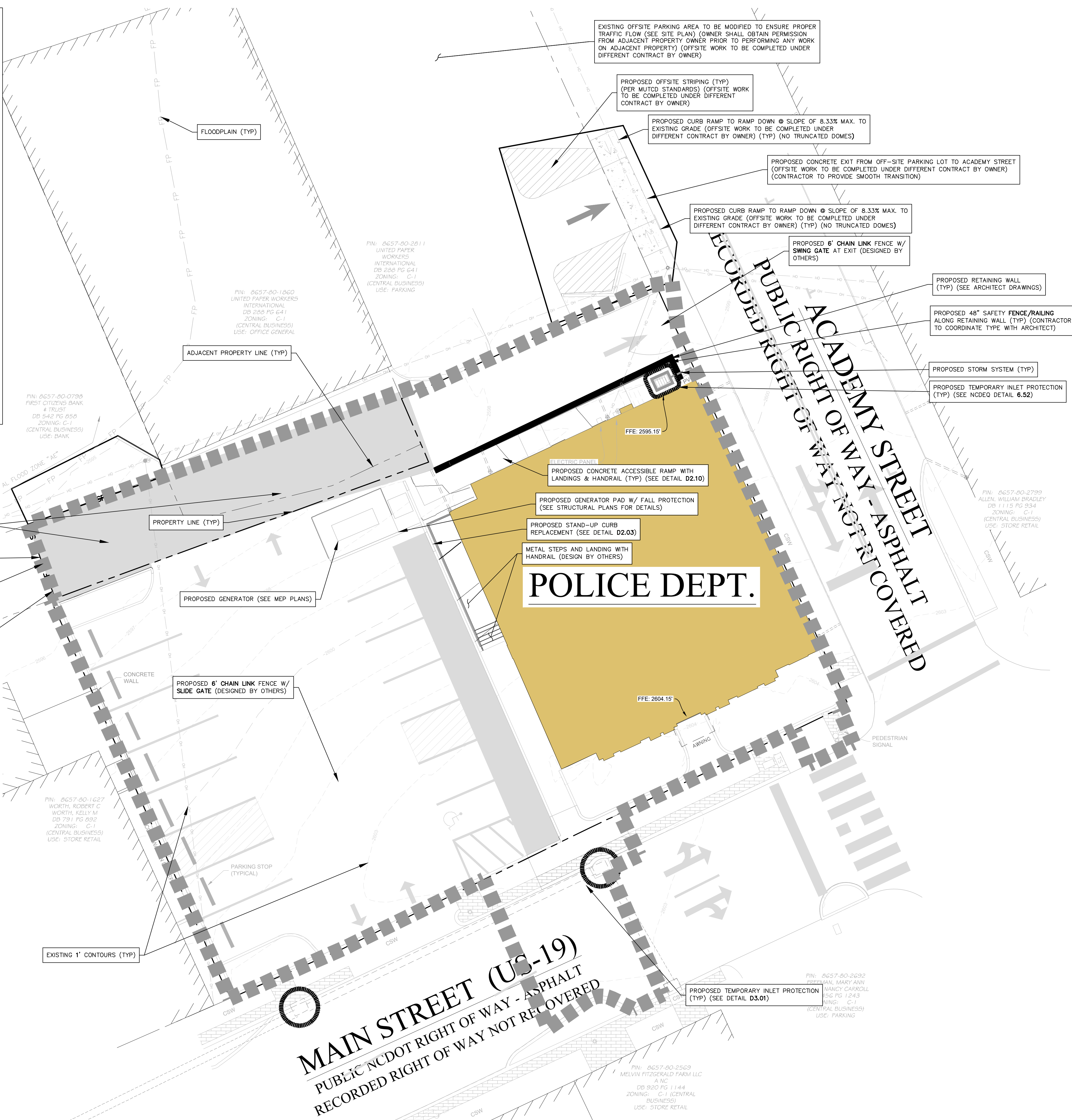
DRAWN BY: MFK
CDC PROJECT NO.: 22903

SHEET

C201

- GR-EC-SW NOTES
- SEE GRADING, EROSION CONTROL, AND STORM DRAINAGE DETAIL SHEETS FOR ALL GENERAL NOTES. CONTRACTOR RESPONSIBLE FOR INCLUSION OF DETAILS SHEETS WITH ALL PLANS.
 - SOME PORTION OF THIS PROJECT LIES WITHIN THE 100-YR FEMA FLOODPLAIN.
 - SOIL TYPE: N/A
SOIL GROUP: U_r (URBAN LAND)
 - STREAM INFORMATION:
INDEX: 5-(7)
NAME: PIGEON RIVER
CLASSIFICATION: C
RIVER BASIN: FRENCH BROAD
 - TO SCHEDULE THE REQUIRED INSPECTIONS ON ALL WORK, CALL THE CIVIL DESIGN CONCEPTS INSPECTIONS HOTLINE AT 828-771-4755, OR EMAIL AT INSPECTIONS@CDCGO.COM.
FAILURE TO SCHEDULE INSPECTIONS MAY RESULT IN UNCOVERING OR REDDING WORK
 - RETAINING WALLS:
ALL RETAINING WALL ELEVATIONS SHOWN ARE FROM TOP OF WALL TO FINISH GRADE ELEVATION. CONTRACTOR TO ACCOUNT FOR FOOTER/COVER OVER FOOTER. REFER TO WALL DESIGN FOR FOOTER DESIGN. WALL DESIGN TO ALSO ACCOMMODATE STORM PIPE PENETRATIONS PER PLANS.
WALL DESIGN TO INCLUDE FOOTING DRAIN AND #57 WASHED STONE BEHIND WALL UP TO THE FULL DEPTH OF THE AREA OF GEGRID FROM BOTTOM TO TOP OF WALL.
ALL RETAINING WALLS PROVIDING A CHANGE OF GRADE OF 30" OR MORE SHALL BE PROTECTED WITH A GUARDRAIL. THE GUARDRAIL SHALL BE 42" MINIMUM IN HEIGHT, AND PREVENT THE PASSAGE OF A 21" SPHERE UNLESS ADJACENT TO A WALKING SURFACE. COORDINATE BARRIER STYLE AND COLOR WITH ARCHITECT AND ENGINEER. SEE SITE PLAN FOR APPROXIMATE LOCATION OF FENCING/BARRIERS.
CONTRACTOR TO SUBMIT TO OWNER AND ENGINEER FOR REVIEW PRIOR TO ORDERING MATERIALS. CONTRACTOR TO COORDINATE WALL STYLE AND COLOR WITH ARCHITECT AND ENGINEER.
CONTRACTOR RESPONSIBLE FOR OBTAINING BUILDING PERMIT FOR ALL RETAINING WALLS PRIOR TO ORDERING MATERIALS OR CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR CONSTRUCTING RETAINING WALLS IN ACCORDANCE WITH ALL WALL MANUFACTURERS STANDARDS AND SPECIFICATIONS.
ALL RETAINING WALLS 4' OR GREATER TO BE SUBMITTED TO THE TOWN OF CANTON BUILDING SAFETY DIVISION FOR REVIEW AND APPROVAL AND CERTIFIED BY THE WALL ENGINEER UPON COMPLETION. RETAINING WALLS SUBJECT TO ADDITIONAL LANDSCAPING DEPENDING ON HEIGHT AND MATERIAL.

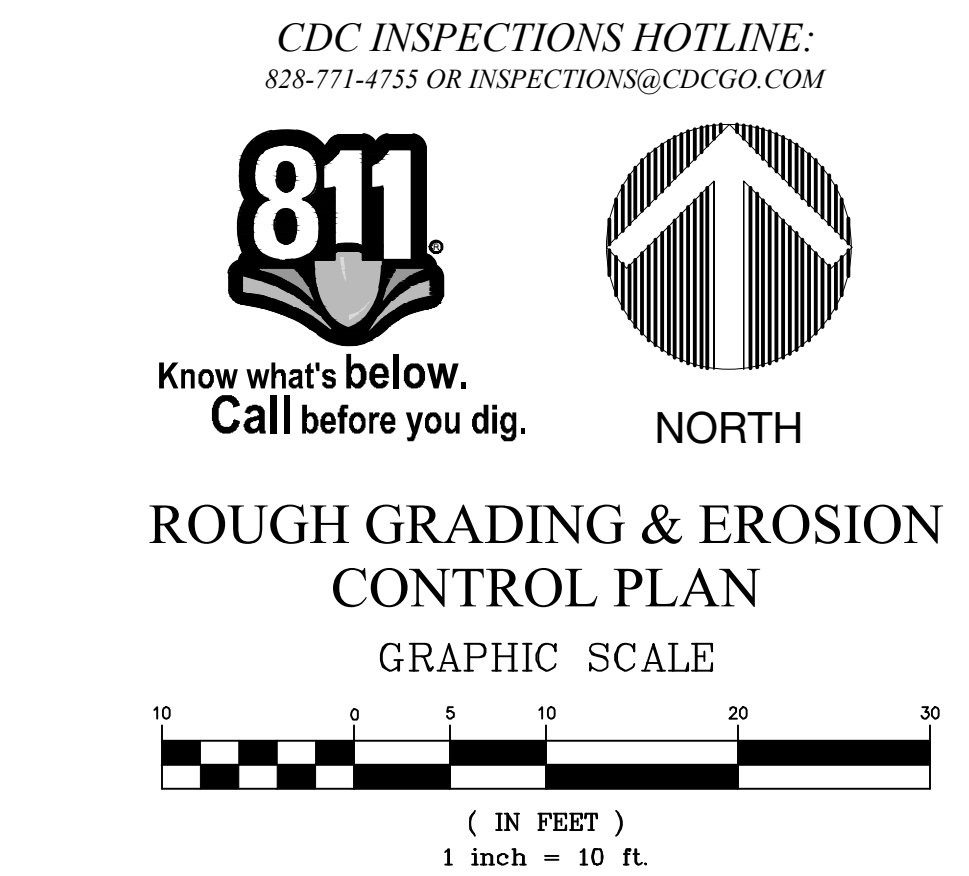
ROUGH GRADING & EROSION CONTROL LEGEND	
LIMITS OF DISTURBANCE	---
SILT FENCE	SF
CONSTRUCTION FENCE	CF
TREE PROTECTION FENCE	TPF
SKIMMER & CONTROL STRUCTURE	⊗
TEMPORARY PIPE	---
EXISTING CONTOURS	00
PROPOSED CONTOURS	00
TEMPORARY DIVERSION DITCH	TD
PERMANENT DIVERSION DITCH	PD
CHECK DAM	⊗
STRAW WATTLE	⊗
STONE INLET PROTECTION	⊗
XXXXX	



DEVELOPMENT DATA	
OWNER/DEVELOPER:	TOWN OF CANTON, NC 85 SUMMER ST. CANTON, NC 28716 ZEB SMATHERS (828) 646-3419
CONTACT:	
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 168 PATTON AVENUE ASHEVILLE, NC 28801 MICHAEL KELEHER, P.E. (828) 225-5388
CONTACT:	
SURVEYOR:	ED HOLMES & ASSOCIATES 200 RIDGEFIELD COURT, SUITE 208 ASHEVILLE, NC 28805 ANDREW WOLFE, PLS (828) 225-6562
CONTACT:	
ARCHITECT:	CREECH & ASSOCIATES 1000 WEST MOREHEAD STREET, SUITE 120 CHARLOTTE, NC 28208 MICHAEL SUPINO, AIA, NCARB (704) 376-6000
CONTACT:	

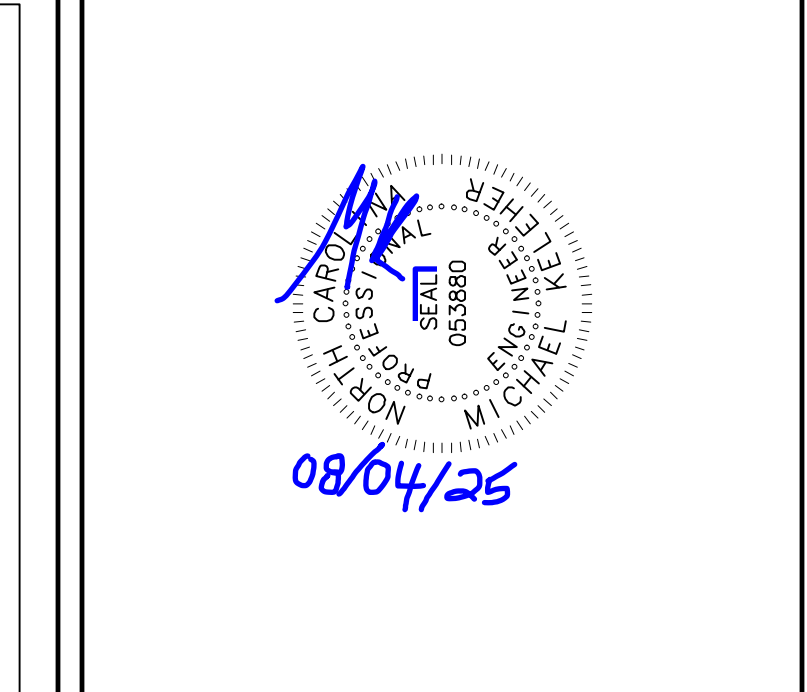
PROJECT DATA	
PIN:	8657-80-2711
ADDRESS:	401 MAIN ST.
DEED BOOK/PAGE:	1079/405
PROJECT ACREAGE:	0.28± ACRES
CURRENT ZONING:	C-1 (CENTRAL BUSINESS)
SETBACKS:	
FRONT:	N/A
SIDES:	N/A
REAR:	N/A
CORNER:	N/A
HEIGHT:	50'
DISTURBED AREA:	0.35 AC
IMPERVIOUS AREA:	0.13 ACRES (46%)
PERVIOUS AREA:	0.15 ACRES (54%)

ZONING DATA	
PARKING CALCULATIONS:	
VEHICULAR:	PER SECTION 9-4062, ONE SPACE PER 200 SF OF GFA EXCEPT IN CENTRAL BUSINESS DISTRICT
GFA:	N/A
REQUIRED:	N/A
EXISTING:	16
PROPOSED:	14
ACCESSIBLE:	
EXISTING:	1
PROPOSED:	2 (1 ON EACH SIDE OF FENCE)



1000 W. Morehead St.
Suite 120
Charlotte, NC 28208
p 704.376.6000
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CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

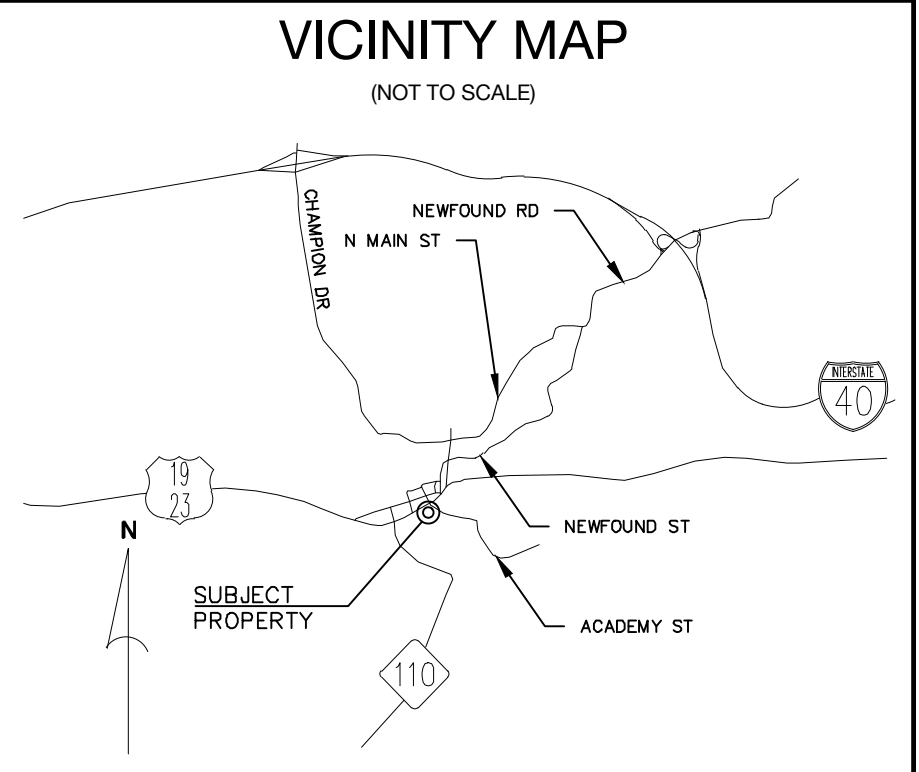
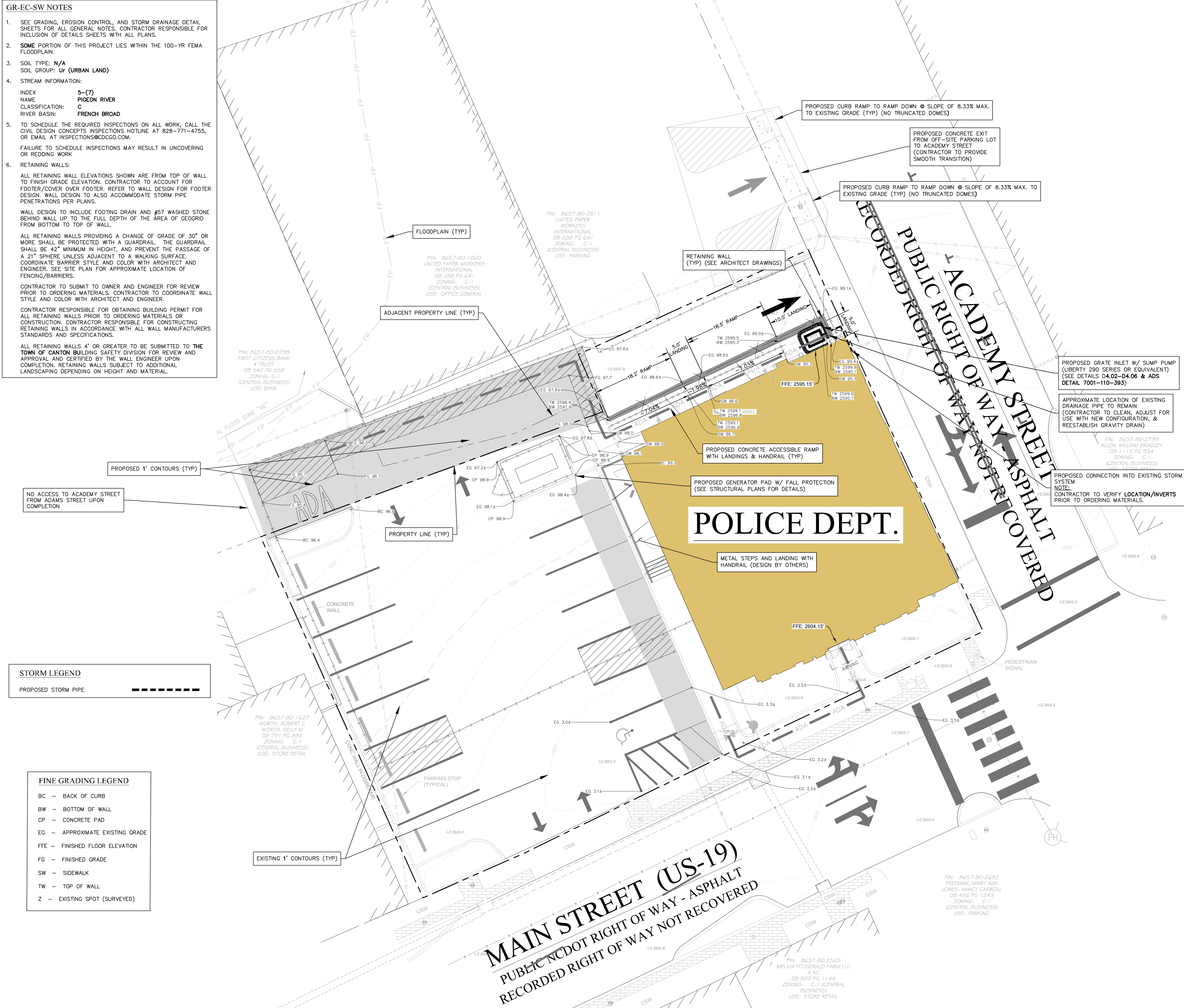
DRAWN BY: MFK
CDC PROJECT NO.: 22903

SHEET

C301

GR-EC-SW NOTES

- SEE GRADING, EROSION CONTROL, AND STORM DRAINAGE DETAIL SHEETS FOR ALL GENERAL NOTES. CONTRACTOR RESPONSIBLE FOR INCLUSION OF DETAILS SHEETS WITH ALL PLANS.
- SOME PORTION OF THIS PROJECT LIES WITHIN THE 100-YR FEMA FLOODPLAIN.
- SOIL TYPE: N/A
SOIL GROUP: U₁ (URBAN LAND)
- STREAM INFORMATION:
INDEX: 5-(7)
NAME: PIGEON RIVER
CLASSIFICATION: C
RIVER BASIN: FRENCH BROAD
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DEVELOPMENT DATA

OWNER/DEVELOPER: TOWN OF CANTON, NC
85 SUMMER ST.
CANTON, NC 28716
ZEB SMATHERS
(828) 646-3419

CONTACT:

CIVIL ENGINEER: CIVIL DESIGN CONCEPTS, P.A.
168 PATTON AVENUE
ASHEVILLE, NC 28801
MICHAEL KELEHER, P.E.
(828) 225-5388

CONTACT:

SURVEYOR: ED HOLMES & ASSOCIATES
200 RIDGEFIELD COURT, SUITE 208
ASHEVILLE, NC 28805
ANDREW WOLFE, PLS
(828) 225-6562

CONTACT:

ARCHITECT: CREECH & ASSOCIATES
1000 WEST MOREHEAD STREET, SUITE 120
CHARLOTTE, NC 28208
MICHAEL SUPINO, AIA, NCARB
(704) 378-6000

PROJECT DATA

PIN: 8657-80-2711
ADDRESS: 401 MAIN ST.
DEED BOOK/PAGE: 1079/405
PROJECT ACREAGE: 0.28± ACRES,
CURRENT ZONING: C-1 (CENTRAL BUSINESS)

SETBACKS:
FRONT: N/A
SIDES: N/A
REAR: N/A
CORNER: N/A
HEIGHT: 50'

DISTURBED AREA: 0.35 AC

IMPERVIOUS AREA: EBE 0.13 ACRES (46%) POST 0.11 ACRES (39%)
PERVIOUS AREA: 0.15 ACRES (54%) 0.17 ACRES (61%)

ZONING DATA

PARKING CALCULATIONS:
VEHICULAR: PER SECTION 9-4062, ONE SPACE PER 200 SF OF GFA EXCEPT IN CENTRAL BUSINESS DISTRICT

GFA: N/A
REQUIRED: N/A
EXISTING: 16
PROPOSED: 14

ACCESSIBLE:
EXISTING: 1
PROPOSED: 2 (1 ON EACH SIDE OF FENCE)



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CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

DRAWN BY: MFK
CDC PROJECT NO.: 22903

SHEET
C401

1. TO SEE WATER DETAIL SHEETS FOR ALL GENERAL WATER NOTES. CONTRACTOR RESPONSIBLE FOR INCLUSION OF DETAIL SHEETS WITH ALL SUBMITTAL PLANS.
2. WATER METERS ARE TO BE PLACED MAXIMUM OF 5' OFF EDGE OF PAVEMENT/SIDEWALK, WHEN A UTILITY STRIP IS PRESENT, METERS SHALL BE INSTALLED WITHIN STRIP, WHEN SIDEWALK IS PRESENT, METERS SHALL BE INSTALLED WITHIN SIDEWALK. CROSSING SIDEWALK SHALL BE CONSTRUCTED WITH PVC SLEEVE AND GROUND ON EITHER SIDE OF SIDEWALK PER TOWN OF CANTON STANDARDS AND SPECIFICATIONS.
3. TYPICAL EASEMENTS FOR WATER LINES LOCATED OUTSIDE ESTABLISHED UTILITY EASEMENTS OR ROAD RIGHT-OF-WAYS SHALL BE THE SAME AS THE EASEMENTS FOR GAS, SEWER, AND REMAINED CLEARANCE OF TREE PLANTINGS, EXISTING TREES, AND ANY PERMANENT STRUCTURES.
4. TO SCHEDULE THE REQUIRED INSPECTIONS ON ALL WORK, CALL THE TOWN OF CANTON'S INSPECTIONS DEPARTMENT AT 528-777-4725, OR EMAIL AT inspections@cdccgo.com. FAILURE TO SCHEDULE INSPECTIONS MAY RESULT IN UNCOVERING OF REDUCING WORK.

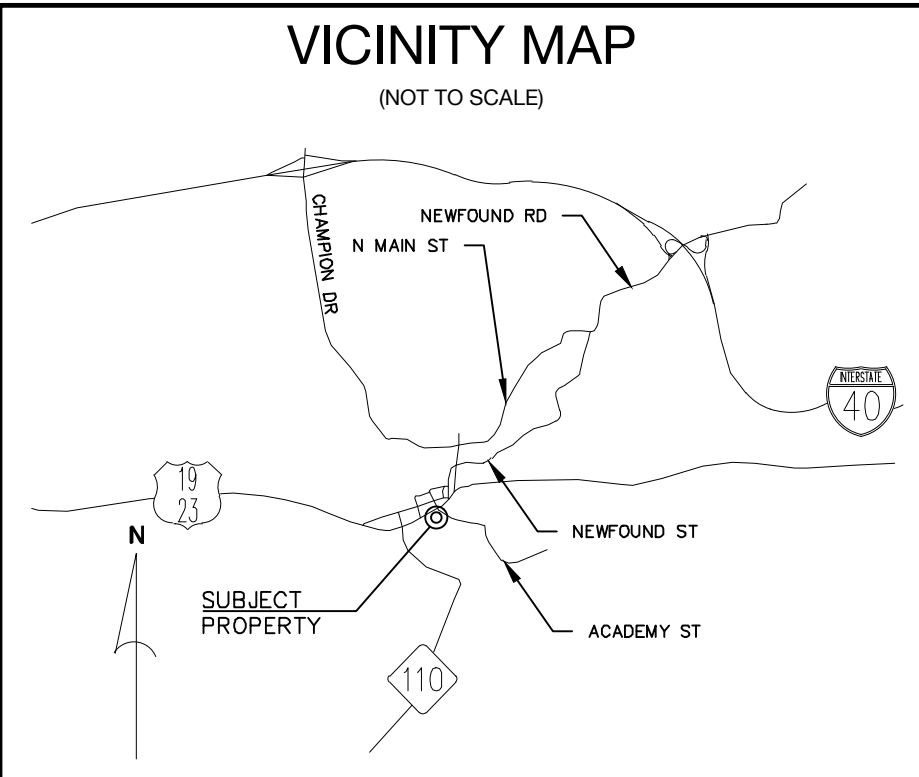
PROPOSED WATER LINE ——— W ———

PROPOSED WATER SERVICE ——— v ——— v ———

PROPOSED FIRE HYDRANT

PROPOSED GATE VALVE

PROPOSED FIRE DEPT. CONNECTION



OWNER/DEVELOPER:	TOWN OF CANTON, NC 85 SUMNER ST. CANTON, NC 28716
CONTACT:	ZEB SWAIGER (828) 646-3419
CIVIL ENGINEER:	CMA DESIGN CONCEPTS, P.A. 166 PATTON AVENUE ASHEVILLE, NC 28801
CONTACT:	MICHAEL KELEHER, P.E. (828) 252-5388
SURVEYOR:	ED HOLMES & ASSOCIATES 200 RIDGEFIELD COURT, SUITE 208 ASHEVILLE, NC, 28806
CONTACT:	ANDREW WOLFE, PLS (828) 225-6562
ARCHITECT:	CREECH & ASSOCIATES 1000 WEST MOREHEAD STREET, SUITE 120 CHARLOTTE, NC 28208
CONTACT:	MICHAEL SUPINO, AIA, NCARB (704) 376-6000

PIN:	8657-80-2711		
ADDRESS:	401 MAIN ST.		
DEED BOOK/PAGE:	1079/40S		
PROJECT ACREAGE:	0.28± ACRES,		
CURRENT ZONING:	C-1 (CENTRAL BUSINESS)		
SETBACKS:			
FRONT:	N/A		
SIDES:	N/A		
REAR:	N/A		
CORNER:	N/A		
HEIGHT:	50'		
DISTURBED AREA:	0.35 AC		
	PRE	POST	
IMPERVIOUS AREA:	0.13 ACRES (46%)	0.11 ACRES (39%)	
PERVIOUS AREA:	0.15 ACRES (54%)	0.17 ACRES (61%)	

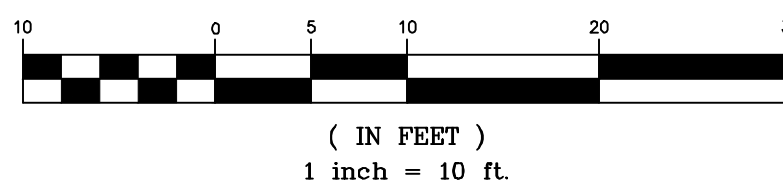
PARKING CALCULATIONS:

VEHICULAR:	PER SECTION 9-4062, ONE SPACE PER 200 SF OF GFA
	<u>EXCEPT IN CENTRAL BUSINESS DISTRICT</u>
GFA:	N/A
REQUIRED:	N/A
EXISTING:	16
PROPOSED:	14
ACCESSIBLE:	
EXISTING:	1
PROPOSED:	2 (1 ON EACH SIDE OF FENCE)



NORTH

GRAPHIC SCALE

[illegible]

Package: CONSTRUCTION
DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

DRAWN BY: MFK
CDC PROJECT NO: 22503

SHEE

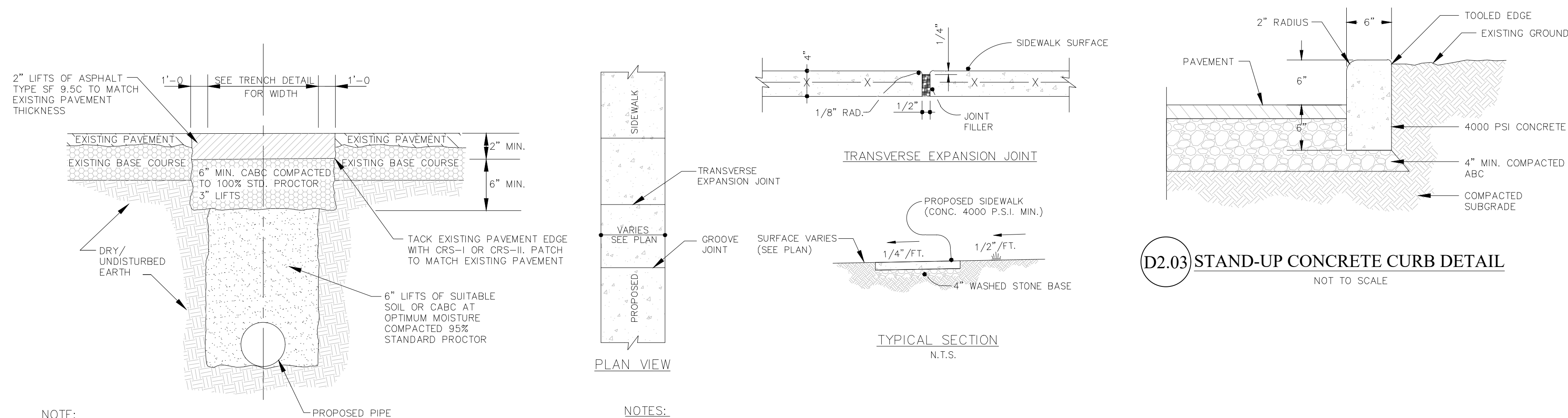
C701

D

C

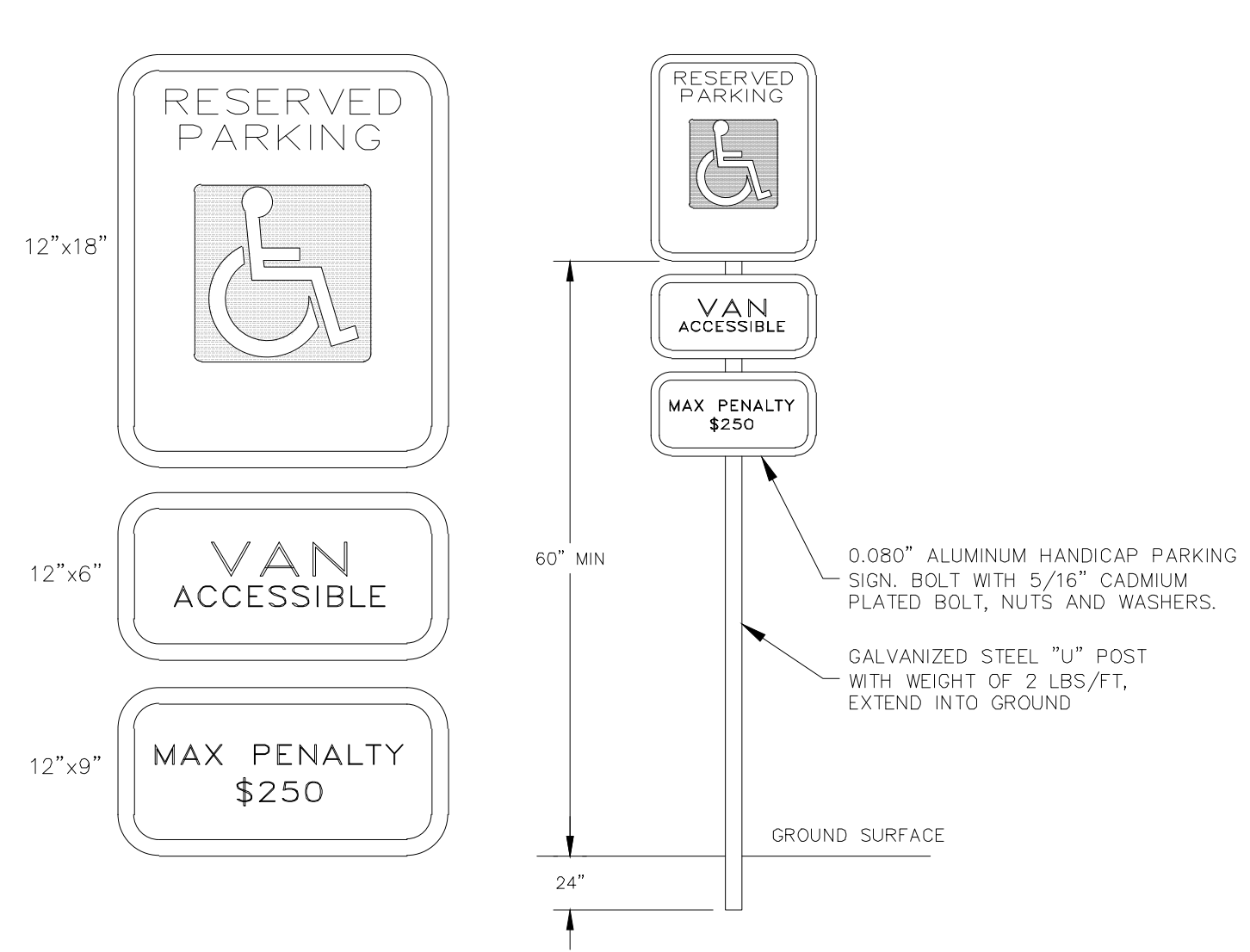
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A

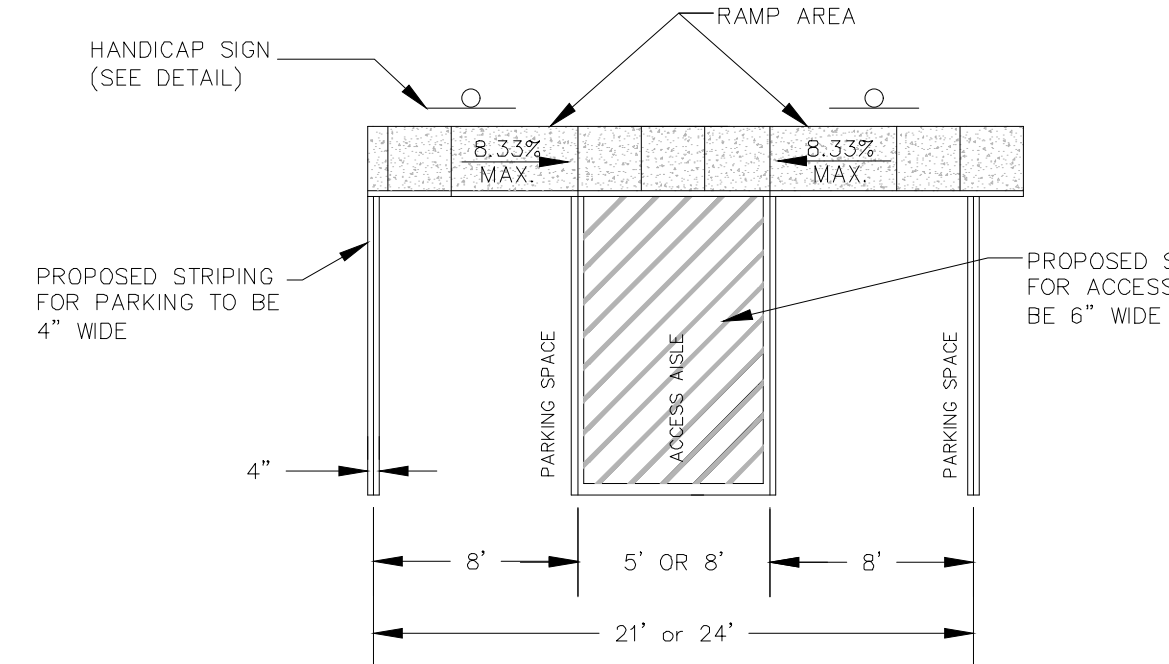


- NOTE:
- EDGE TO BE SAWS WITH A CONCRETE SAW TO A NEAT SQUARED EDGE. BROOMED CLEAN OF DUST BEFORE TACK COAT IS APPLIED.
 - EDGES TO BE TACKED WITH EMULSIFIED ASPHALT TACK CRS-I OR CRS-II

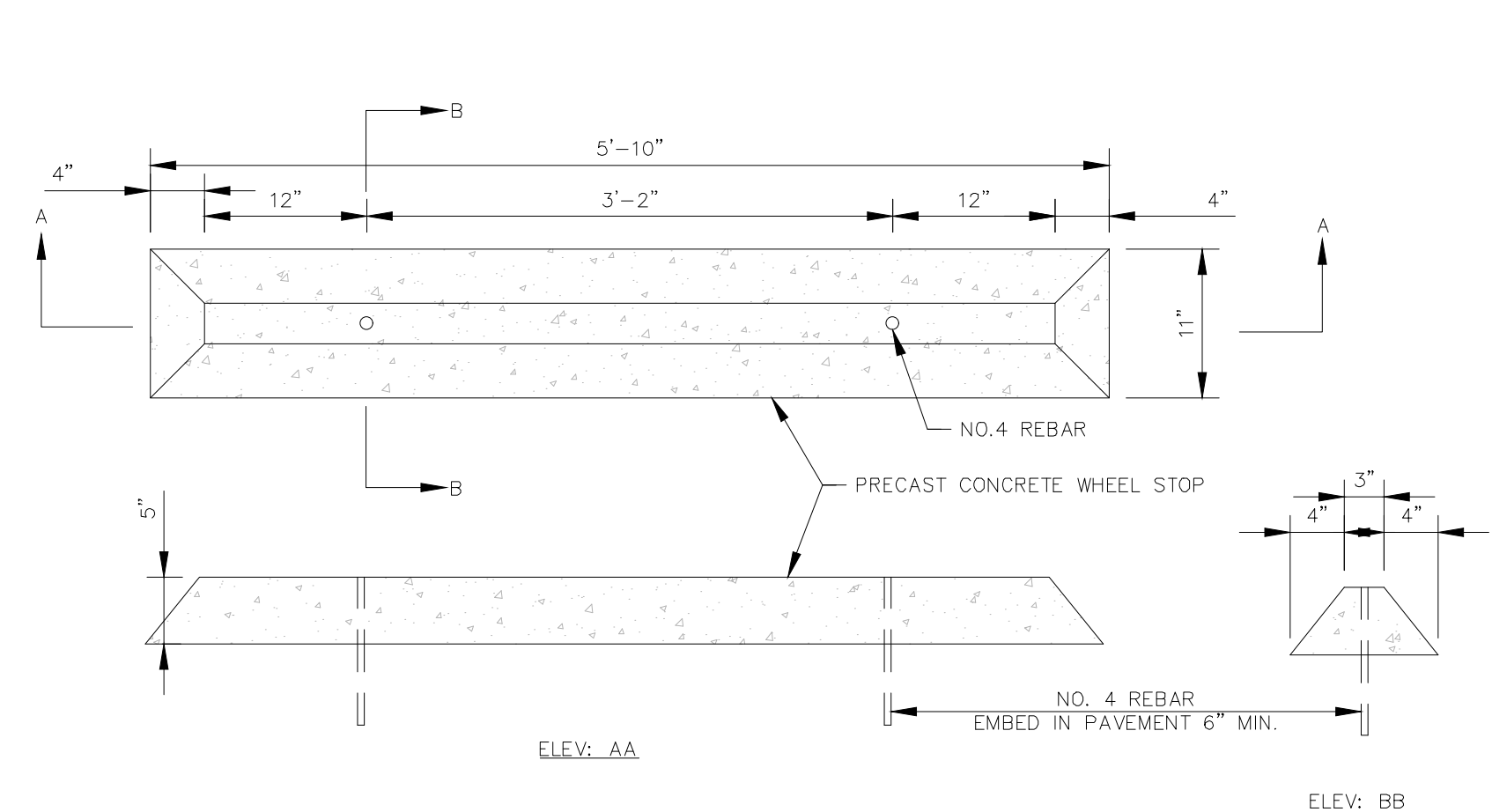
- NOTES:
- TRANSVERSE EXPANSION JOINTS TO BE A MAXIMUM OF 40 FEET.
 - ALL CONCRETE TO BE FINISHED WITH CURING COMPOUND.
 - A GROOVE JOINT 1" DEEP WITH 1/2" RADIUS SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 40' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
 - 6"x6"/ 1.4x1.4 W.W.F. REQUIRED IN ALL SIDEWALKS.



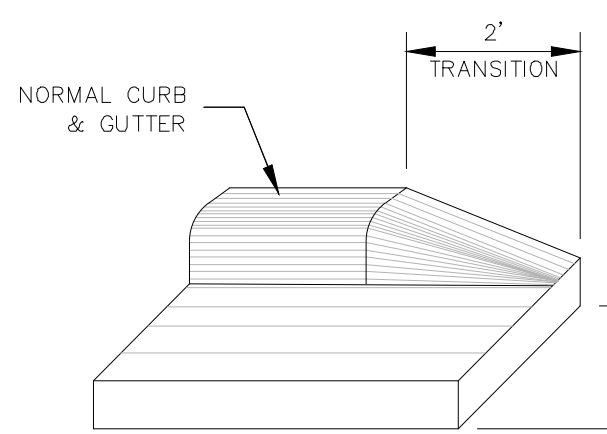
- NOTES:
- RESERVED PARKING SIGN SHALL INCLUDE A WHITE WHEELCHAIR SYMBOL ON A BLUE SQUARE.
 - SIGNS SHALL HAVE A GREEN LEGEND AND BORDER ON A WHITE BACKGROUND.
 - SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE".
 - ALL SIGNS AND STRIPING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.



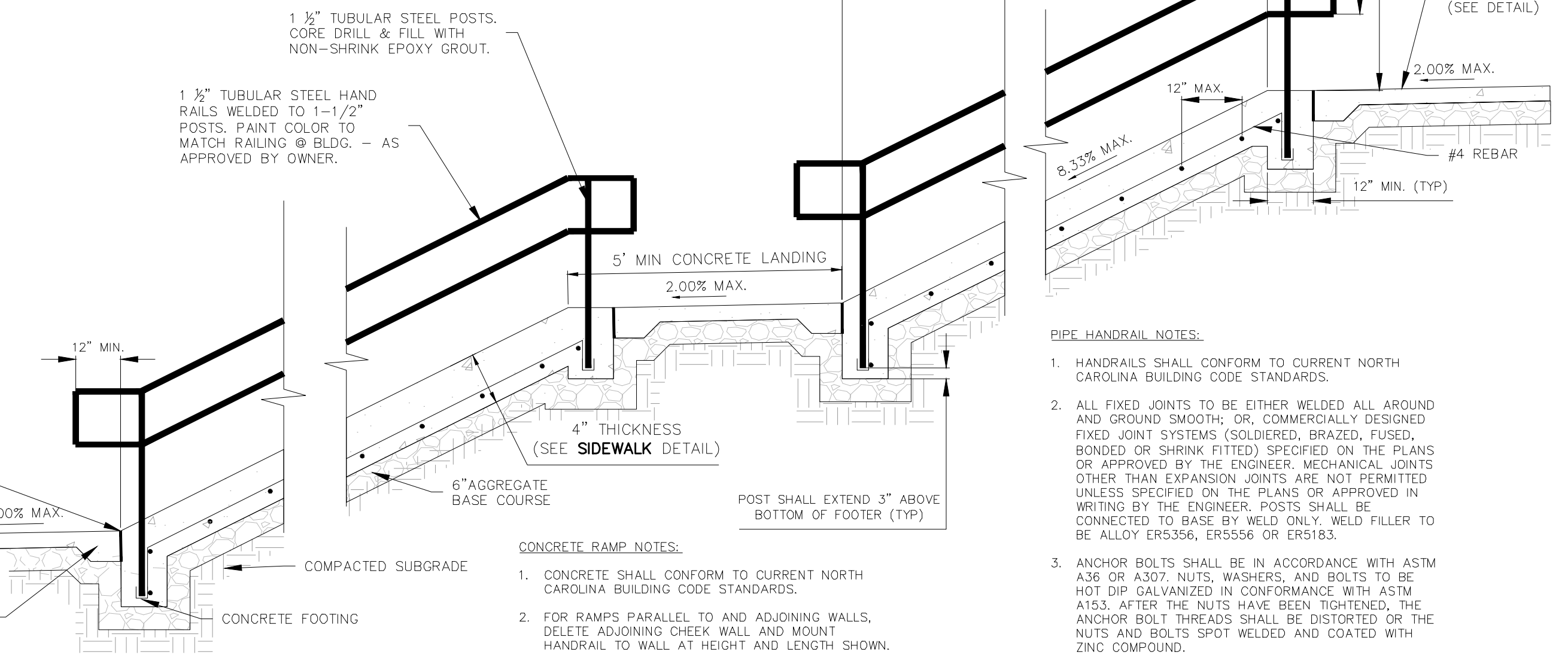
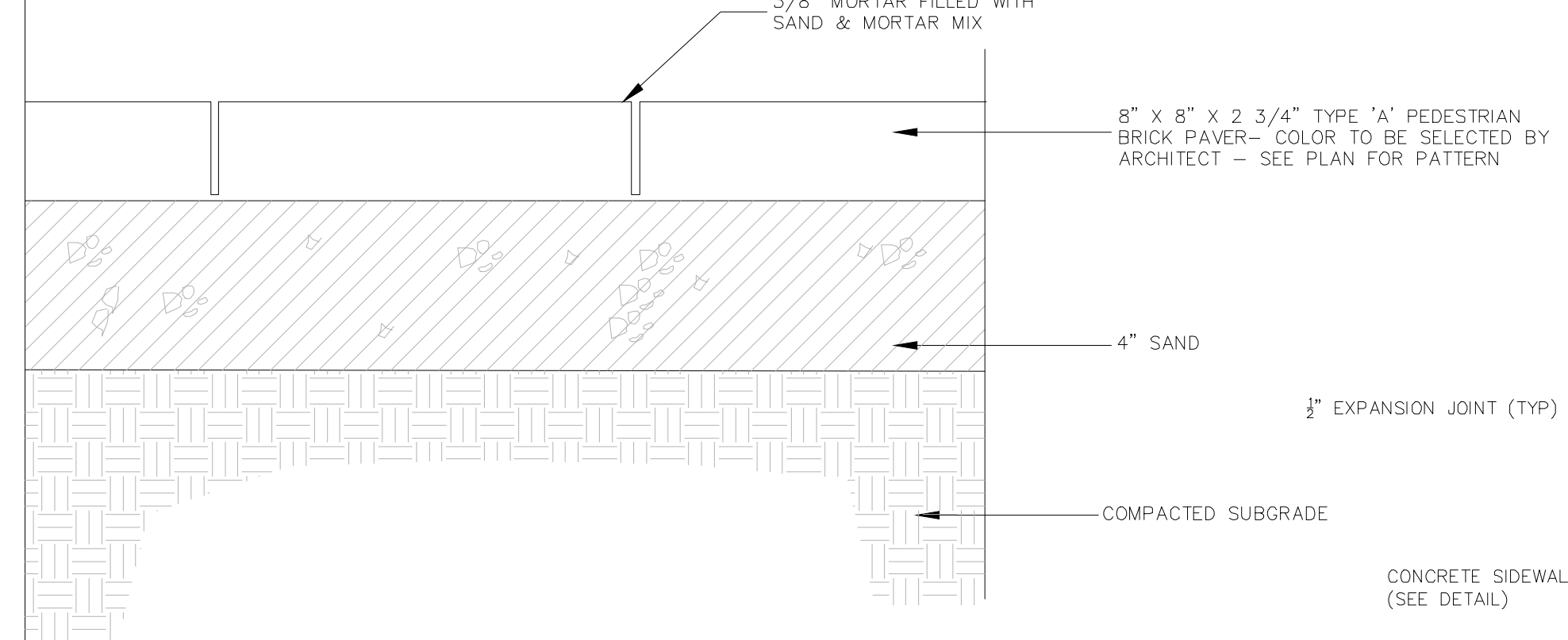
- NOTES:
- ACCESS AISLE FOR CARS SHALL BE 5' AND FOR VANS 8'
 - ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.



- NOTES:
- SIGN SHALL HAVE BLACK LETTERS ON A WHITE BACKGROUND.
 - ALL SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.

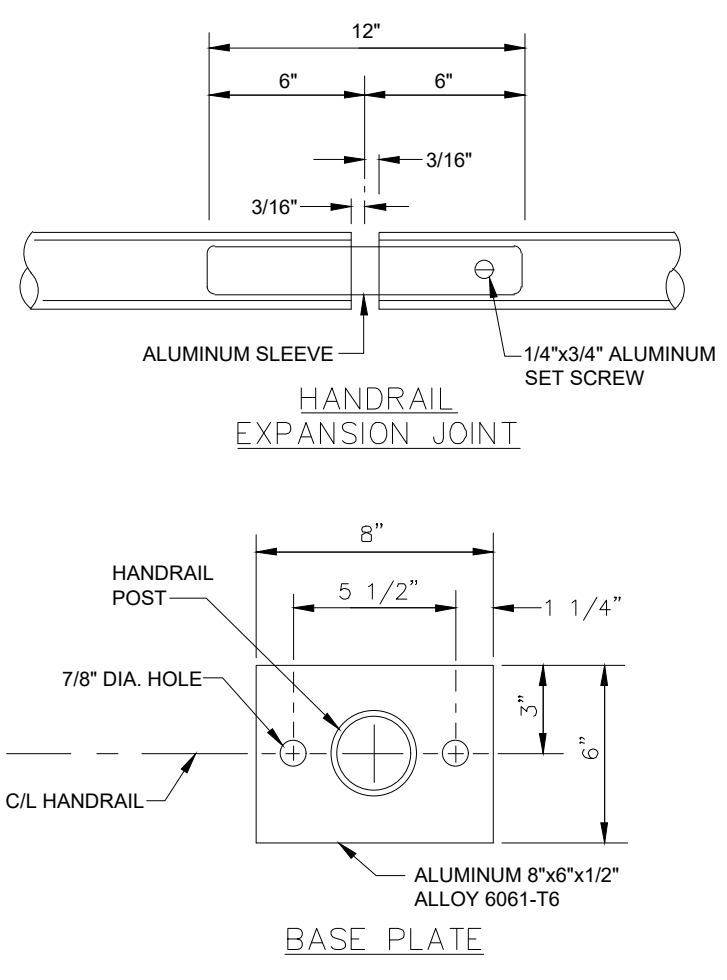
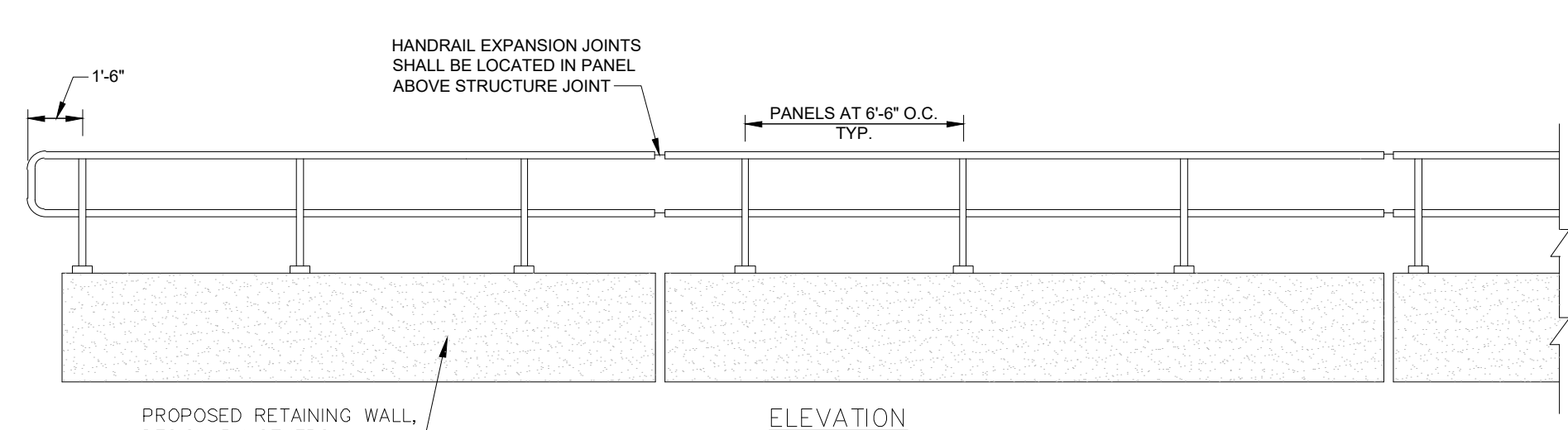


- NOTES:
- TRANSVERSE EXPANSION JOINTS TO BE A MAXIMUM OF 30 FEET.
 - ALL CONCRETE TO BE FINISHED WITH CURING COMPOUND.

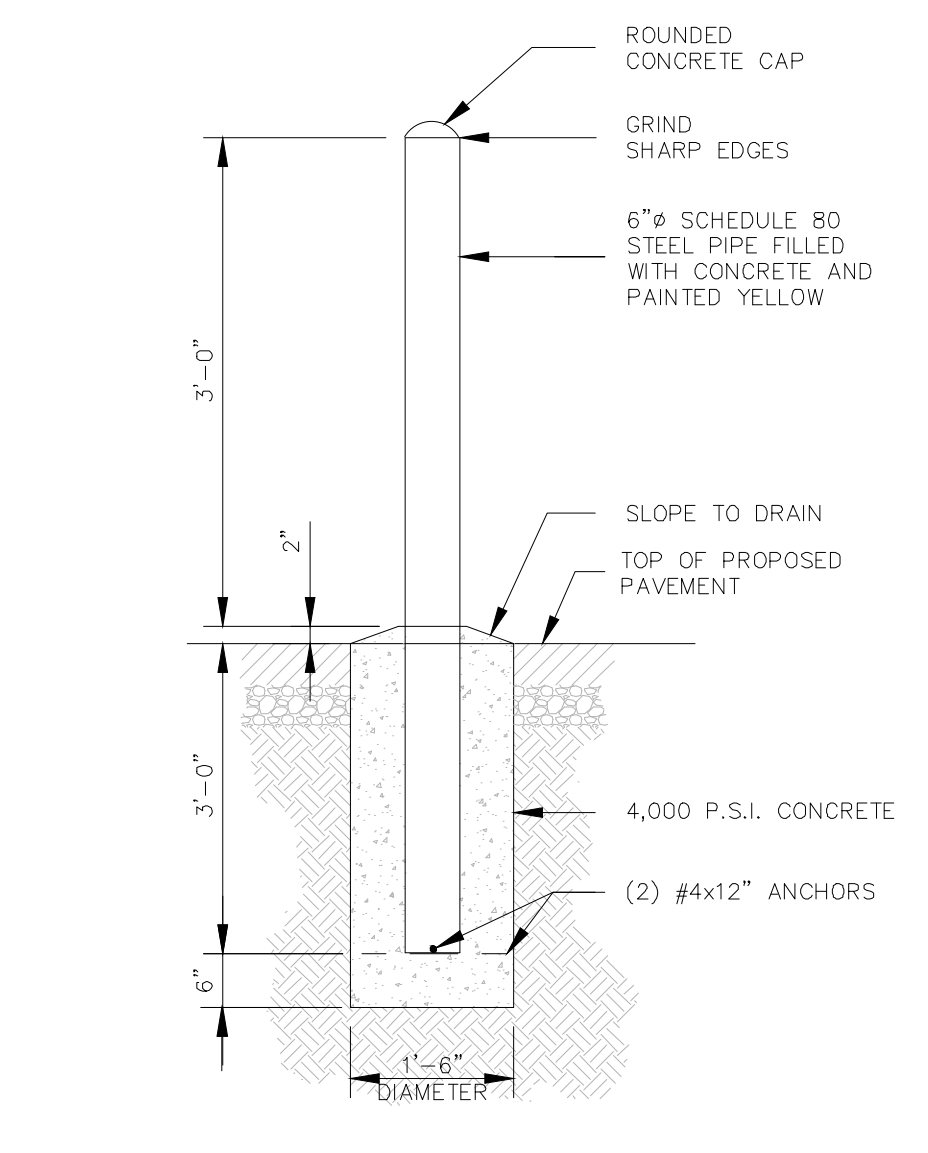
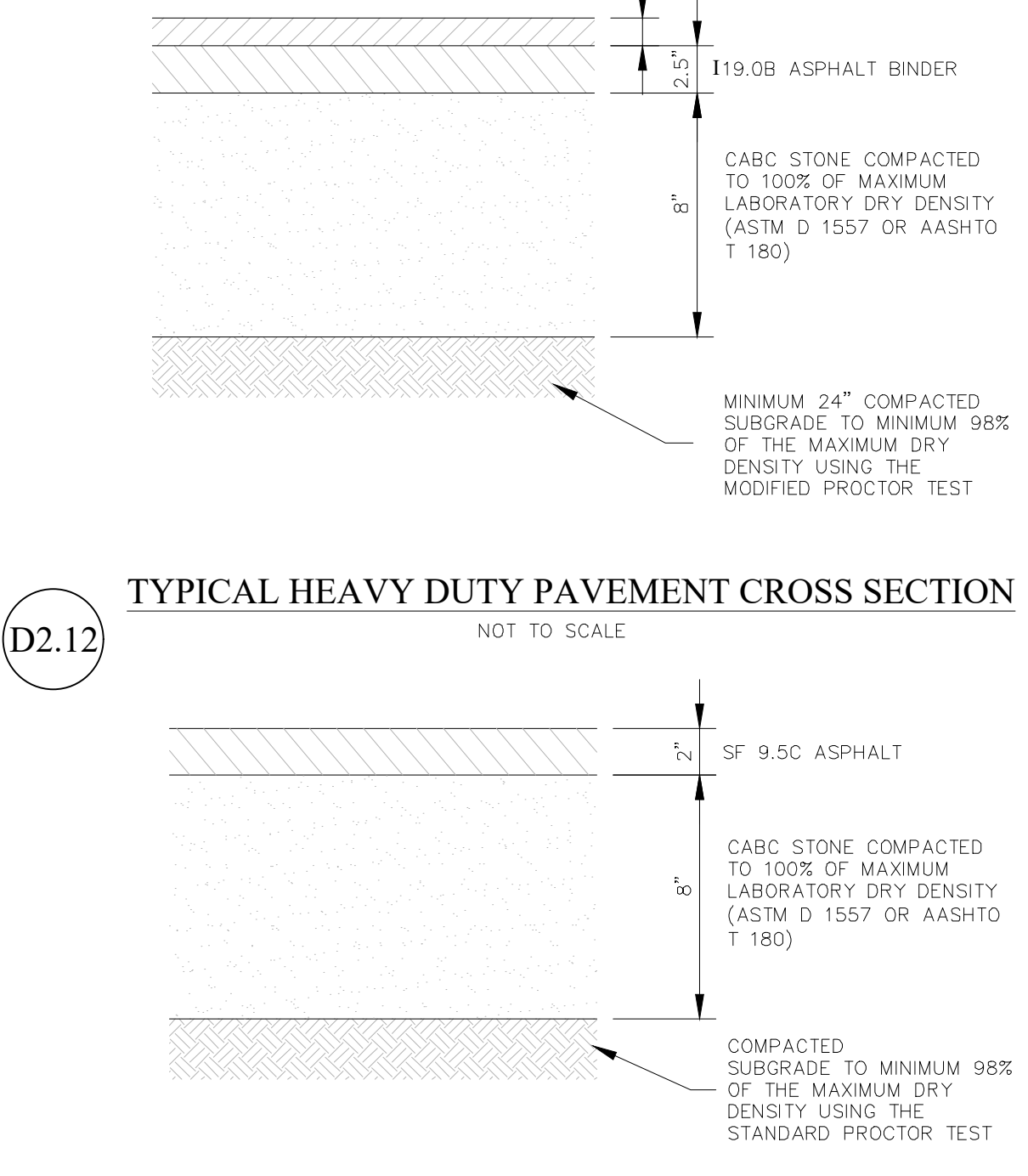


- CONCRETE RAMP NOTES:
- CONCRETE SHALL CONFORM TO CURRENT NORTH CAROLINA BUILDING CODE STANDARDS.
 - FOR RAMPS PARALLEL TO AND ADJOINING WALLS, DELETE ADJOINING CHEEK WALL AND MOUNT HANDRAIL TO WALL AT HEIGHT AND LENGTH SHOWN.
 - LANDINGS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 - CROSS-SLOPES ON RAMPS, LANDINGS, AND SIDEWALKS SHALL NOT EXCEED 2%.

- PIPE HANDRAIL NOTES:
- HANDRAILS SHALL CONFORM TO CURRENT NORTH CAROLINA BUILDING CODE STANDARDS.
 - ALL FIXED JOINTS TO BE EITHER WELDED ALL AROUND AND GROUND SMOOTH, OR, COMMERCIALY DESIGNED FIXED JOINT SYSTEMS (SOLDERED, BRAZED, FUSED, BONDED OR SHRINK FITTED) SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER. MECHANICAL JOINTS OTHER THAN EXPANSION JOINTS ARE NOT PERMITTED UNLESS SPECIFIED ON THE PLANS OR APPROVED IN WRITING BY THE ENGINEER. POSTS SHALL BE CONNECTED TO BASE BY WELD ONLY. WELD FILLER TO BE ALLOW ER308L, ER309L OR ER5183.
 - ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM A36 OR A307. NUTS, WASHERS, AND BOLTS TO BE HOT DIP GALVANIZED IN CONFORMANCE WITH ASTM A153. AFTER THE NUTS HAVE BEEN TIGHTENED, THE ANCHOR BOLT THREADS SHALL BE DISTORTED OR THE NUTS AND BOLTS SPOT WELDED AND COATED WITH ZINC COMPOUND.



- HANDRAIL NOTES:
- ALL FIXED JOINTS TO BE EITHER WELDED ALL AROUND AND GROUND SMOOTH, OR COMMERCIALY DESIGNED FIXED JOINT SYSTEMS (SOLDERED, BRAZED, FUSED, BONDED OR SHRINK FITTED) SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER. MECHANICAL JOINTS OTHER THAN EXPANSION JOINTS ARE NOT PERMITTED UNLESS SPECIFIED ON THE PLANS OR APPROVED IN WRITING BY THE ENGINEER. POSTS SHALL BE CONNECTED TO BASE BY WELD ONLY. WELD FILLER TO BE ALLOW ER308L, ER309L OR ER5183.
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SITE DETAILS

No.	Description	Date

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Project Number: 2023-001-01
Date: JULY 7, 2025

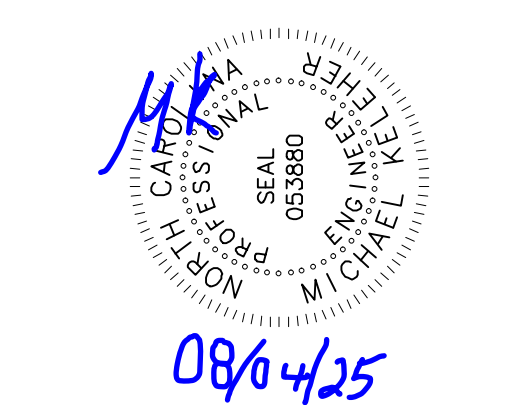
DRAWN BY: MFK
CDC PROJECT NO.: 22903

SHEET

C921

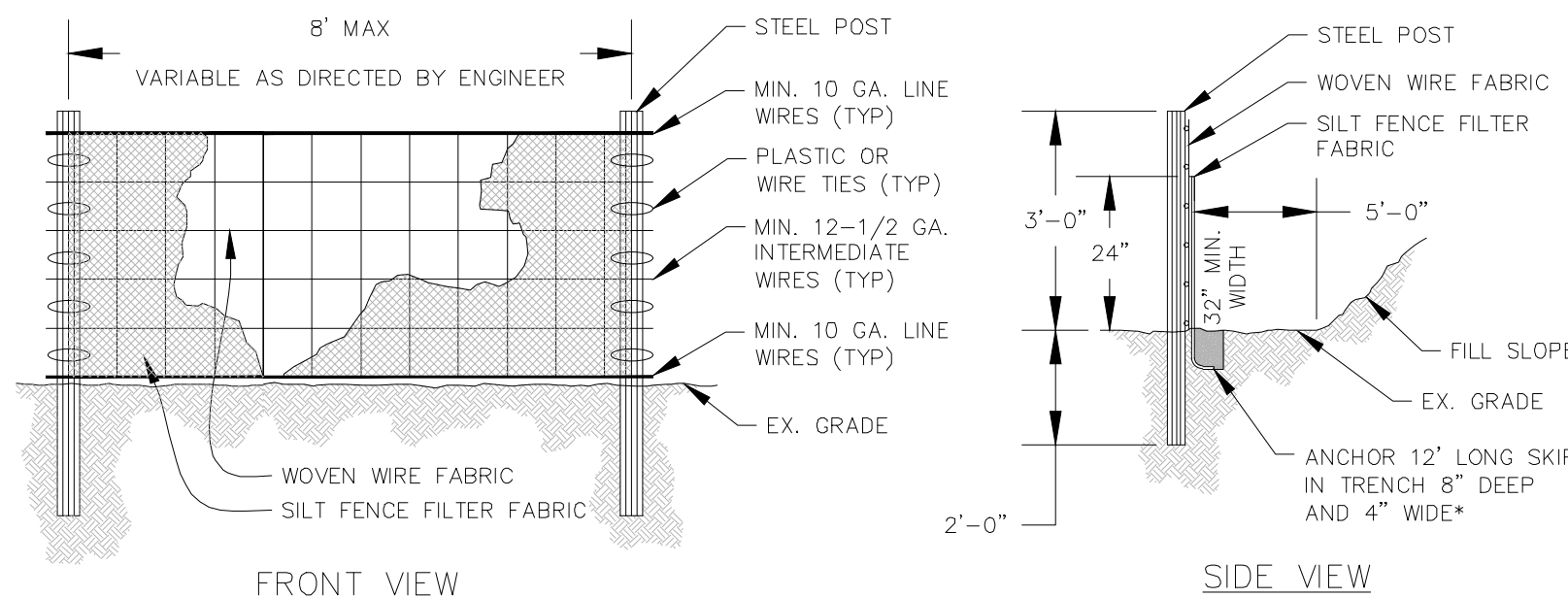
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CANTON POLICE STATION RENO

TOWN OF CANTON, NC - TOWN OF CANTON, NORTH CAROLINA



MATERIALS NOTES:

- USE A SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6481, WHICH IS SHOWN IN PART IN TABLE 6.62B OF THE NCDENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120°F.
- ENSURE THAT POSTS FOR SEDIMENT FENCES ARE 1.33 LB/LINEAR FT STEEL WITH A MINIMUM LENGTH OF 5 FEET, MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.
- FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES.

CONSTRUCTION NOTES:

- CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4" MIN. OVERLAP TO THE NEXT POST.
- SUPPORT STANDARD STRENGTH FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE REINFORCEMENT, THEN THE FABRIC ON THE UPSLOPE SIDE OF THE FENCE POST. WIRE OR PLASTIC TIES SHOULD HAVE A MIN. 50 LB TENSILE STRENGTH.
- BACKFILL THE TRENCH WITH SOIL PLACED OVER THE FILTER FABRIC AND COMPACT. THOROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO SILT FENCE PERFORMANCE.
- DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.

MAINTENANCE NOTES:

- INSPECT SEDIMENT FENCES DAILY AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
- SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
- REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



DATE:	PAGE: 6.10	
TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING		
Seeding Mixture Species Rye (grass) Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains) Omit annual lespedeza when duration of temporary cover is not to extend beyond June. Seeding Dates Mountains—Above 2800 feet: Feb. 15 - May 15 Below 2800 feet: Feb. 1 - May 1 Piedmont—Jan. 1 - May 1 Coastal Plain—Dec. 1 - Apr. 15 Mulch Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool. Maintenance Refrtilize if growth is not fully adequate. Reased, refrtilize and mulch immediately following erosion or other damage.	TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER Species German millet 40 Seeding Dates Mountains—May 15 - Aug. 15 Piedmont—May 1 - Aug. 15 Coastal Plain—Apr. 15 - Aug. 15 Mulch Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool. Maintenance Refrtilize if growth is not fully adequate. Reased, refrtilize and mulch immediately following erosion or other damage.	TEMPORARY SEEDING RECOMMENDATIONS FOR FALL Species Rye (grass) 120 Seeding Dates Mountains—Aug. 15 - Dec. 15 Coastal Plain and Piedmont—Aug. 15 - Dec. 31 Mulch Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool. Maintenance Repair and refrtilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overlaid with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.
SEED BED PREPARATION: LIMING- Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the rate of 1-1½ tons/acre on coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed. FERTILIZER- Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700 - 1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application. SURFACE ROUGHENING- If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. The finished grade shall be a smooth even soil surface with a loosen uniformity fine texture. All ridges and depressions shall be removed and filled to provide the approved surface drainage. Planting is to be done immediately after finished grades are obtained and seedbed preparation is completed.		
DEQ TEMPORARY SEEDING Effective Date: 9/1/2023 in accordance with the 2013 Design Manual Updates		

DATE:	PAGE: 6.02																					
SPACING GUIDE FOR SLOPE BREAKS																						
	<table><tr><th></th><th>SLOPE</th><th>SPACING (FT)</th></tr><tr><td rowspan="3">Steep Slopes</td><td>2:1</td><td>20</td></tr><tr><td>3:1</td><td>35</td></tr><tr><td>4:1</td><td>45</td></tr><tr><td rowspan="5">Long Slopes</td><td>15-25%</td><td>50</td></tr><tr><td>10-15%</td><td>80</td></tr><tr><td>6-10%</td><td>125</td></tr><tr><td>3-6%</td><td>200</td></tr><tr><td><3%</td><td>300</td></tr></table>		SLOPE	SPACING (FT)	Steep Slopes	2:1	20	3:1	35	4:1	45	Long Slopes	15-25%	50	10-15%	80	6-10%	125	3-6%	200	<3%	300
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	3-6%	200																				
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Use slope breaks, such as diversions, wattles, or benches, as appropriate, to reduce the length of cut-and-fill slope to limit sheet and rill erosion and prevent gulying.																						
NOTES: 1. Construct and maintain all erosion and sediment control practices and measures in accordance with the approved sedimentation control plan and construction schedule. 2. Remove good topsoil from areas to be graded and filled, and preserve it for use in finishing the grading of all critical areas. 3. Scarify areas to be topsoiled to a minimum depth of 2 inches before placing topsoil. 4. Clear and grub areas to be filled by removing trees, vegetation, roots, or other objectionable material that would affect the planned stability of the fill. 5. Ensure that fill material is free of brush, rubbish, rocks, logs, stumps, building debris, and other materials inappropriate for constructing stable fills. 6. Place all fill in layers not to exceed 9 inches in thickness, and compact the layers as required to reduce erosion, slippage, settlement, or other related problems. 7. Do not incorporate frozen, soft, mucky, or highly compressible materials into fill slopes. 8. Do not place fill on a frozen foundation, due to possible subsidence and slippage. 9. Keep diversions and other water conveyance measures free of sediment during all phases of development. 10. Handle seeps or springs encountered during construction in accordance with approved methods (subsurface drain). 11. Permanently stabilize all graded areas immediately after final grading is completed on each area in the grading plan. Apply temporary stabilization measures on all graded areas when work is to be interrupted or delayed for 30 days or longer. 12. Show topsoil, stockpiles, borrow areas, and spoil areas on the plans, and make sure they are adequately protected from erosion. Include final stabilization of these areas in the plan.																						
DEQ LAND GRADING Effective Date: 9/1/2023 in accordance with the 2013 Design Manual Updates																						

DATE:	PAGE: 6.11	
NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING		
SEEDING MIXTURE Species Centipede Indian Woodrats Virginia Wild Rye 4-6 lbs/acre *Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual. Seeding Dates Coastal or Eastern Piedmont for Centipede- Sept. 1 - May 1 Coastal and Piedmont for Indian Woodrats and Virginia Wild Rye- Feb 15 - April 1 Mountains for Indian Woodrats and Virginia Wild Rye- March 1 - May 15 Maintenance: Significant maintenance may be required to obtain desired cover.	NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR SUMMER Species Indian Woodrats Virginia Wild Rye 1.5-2.5 lbs/acre* 4-6 lbs/acre* *Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual. Seeding Dates Mountains - July 15-Aug 15 Piedmont - Aug 15 - Oct 15 Maintenance: Indian Woodrats and Virginia Wild Rye are both sun and shade tolerant.	SEEDING MIXTURE Species Hard Fescue Switchgrass Indian Grass Big Bluestem Indian Woodrats Virginia Wild Rye 15 lbs/acre 2.5-3.5 lbs/acre* 5-7 lbs/acre 5-7 lbs/acre* 1.5-2.5 lbs/acre* 4-6 lbs/acre* *Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual. Seeding Dates Mountains - Hard Fescue- Aug 1 - June 1 Mountains- Switchgrass, Indian Grass, Big Bluestem- Dec 1 - April 15 Piedmont and Coastal- Switchgrass, Indian Grass, Big Bluestem- Dec 1 - April 1 Coastal- Indian Woodrats and Virginia Wild Rye- Sept 1 - Nov 1 Maintenance: Hard Fescue is not recommended for slopes > 5%. Prefers shade.
LIMING- Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the rate of 1 to 1½ tons/acre on coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed. FERTILIZER- Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700-1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application. SURFACE ROUGHENING- If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. The finished grade shall be a smooth even soil surface with a loosen uniformity fine texture. All ridges and depressions shall be removed and filled to provide the approved surface drainage. Planting is to be done immediately after finished grades are obtained and seedbed preparation is completed.		
NOTES: 1. Permanent seeding, sodding or other means of stabilization are required when all construction work is completed according to the NPDES timelimits table. 2. A North Carolina Department of Agriculture soil test (or equal) is highly recommended to be obtained for all areas to be seeded, sodded, sodded or planted. 3. Use a seeding mix that will produce fastgrowing nurse crops and includes non-invasive species that will eventually provide a permanent groundcover. Soil blankets may be used in lieu of nurse crops. Mat, tack or crimp mulch, as needed to stabilize seeded areas until root establishment. Mulch must cover at least 80% of the soil surface. 4. Ground cover shall be maintained until permanent vegetation is established and stable against accelerated erosion.		
DEQ PERMANENT SEEDING Effective Date: 9/1/2023 in accordance with the 2013 Design Manual Updates		

DATE:	PAGE: 6.52
DEWATERING 	
NOTES: 1. Lay one block, on each side of the structure, on its side in the bottom row to allow pool drainage. The foundation should be excavated at least 2 inches below the crest of the storm drain. Place the bottom row of blocks against the edge of the storm drain for lateral support and to avoid washouts when overflow occurs. If needed, give lateral support to subsequent rows by placing 2 inch x 4 inch wood studs through block openings. 2. Carefully fit hardware cloth or comparable wire mesh with 1/2-inch openings over all block openings to hold gravel in place. 3. Use clean gravel 1/2 to 3/4 inch in diameter, placed 2 inches below the top of the block on a 2:1 slope or flatter and smooth it to an even grade. NCDOT #57 washed stone is recommended.	
MAINTENANCE: 1. Inspect all measures at least weekly and after every rainfall of 1.0 inch or greater; repair immediately. 2. Remove sediment as necessary to provide adequate storage volume for subsequent rains. 3. When the contributing drainage area has been adequately stabilized, remove all materials and any unstable soil, and either salvage or dispose of it properly. Bring the disturbed area to proper grade, then smooth and compact before stabilizing.	
DEQ BLOCK AND GRAVEL INLET PROTECTION (TEMPORARY) Effective Date: 9/1/2023 in accordance with the 2013 Design Manual Updates	

GENERAL CONSTRUCTION NOTES

- ALL GRADING, STORM INSTALLATION, AND SOIL EROSION CONTROL MEASURES ON THIS SITE MUST BE AUTHORIZED BY PERMITS ISSUED BY NCDCE. ALL SITEWORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL REGULATORY STANDARDS AND ALL REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS.
- CONTRACTOR TO VERIFY WITH ENGINEER THAT THE REQUIRED GRADING, EROSION CONTROL, STORM WATER, LAND DISTURBANCE, AND ASSOCIATED NON-GRADING PERMITS HAVE BEEN OBTAINED PRIOR TO BEGINNING CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE UNDER THE INSPECTION OF THE ENGINEER, THE OWNER, AND NCDCE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO BEGINNING WORK. ANY WORK COVERED PRIOR TO ENGINEER'S INSPECTION IS SUBJECT TO UNCOVERING AND BACKFILLING AT THE CONTRACTOR'S EXPENSE.
- ALL WORK MUST BE PERFORMED BY A NORTH CAROLINA LICENSED CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION AND TO NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION.
- PROTECT EXISTING SITE FEATURES (SHOWN TO REMAIN) AND NEWLY COMPLETED WORK DURING CONSTRUCTION. ANY DAMAGE INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES, AS WELL AS THE PROJECT PLANS AND SPECIFICATIONS, AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY IS TO BEGIN. THE CONTRACTOR SHALL NOTIFY NC ONE CALL AT 811, 48 HOURS BEFORE CONSTRUCTION BEGINS. NOTIFY THE ENGINEER AT LEAST 72 HOURS BEFORE STARTING CONSTRUCTION ACTIVITIES.
- EROSION CONTROL IS A FIELD PERFORMANCE BASED ACTIVITY, AND ADDITIONAL SILT FENCES, TEMPORARY SEDIMENT BASINS, AND ALL OTHER MEASURES MAY NEED TO BE ADDED IN ADDITION TO THE APPROVED PLAN AS NECESSARY. MEASURES SHOWN CAN AND SHOULD BE ADJUSTED TO ASSURE MAXIMUM PROTECTION ON SITE. CONTRACTOR SHALL ADD ADDITIONAL MEASURES AS NEEDED IN ENVIRONMENTALLY SENSITIVE AREAS.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAINING, AND REMOVING ALL NECESSARY EROSION AND SEDIMENTATION CONTROL MEASURES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ADJUSTMENT OF ALL UTILITY SURFACE ACCESSSES WHETHER THE CONTRACTOR PERFORMS THE WORK OR A UTILITY COMPANY PERFORMS THE WORK.
- ALL AREAS WHERE THERE IS EXPOSED DIRT SHALL BE SEEDED, FERTILIZED AND MULCHED ACCORDING TO THE SPECIFICATIONS NOTES IN THE PLANS. SITE STABILIZATION IS A PERFORMANCE BASED REQUIREMENT, AND THE SITE WILL NOT BE ACCEPTED UNTIL PERMANENT VEGETATION IS ESTABLISHED TO THE SATISFACTION OF THE ENGINEER.
- ALL HIGH DENSITY POLYETHYLENE (HDPE) CORRUGATED STORM SEWER DETENTION PIPE SHALL BE TYPE "S" HANCOR SURELOK ADSN12 OR APPROVED EQUIVALENT WITH WATER TIGHT JOINTS MEETING AASHTO M252, M294 OR MP7. ALL HDPE PIPE IS TO BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND IN ACCORDANCE WITH ASTM D2321 WITH THE EXCEPTION THAT MINIMUM COVER IN TRAFFIC LOAD AREA SHALL BE 24" FOR 48" AND 18" FOR 60" PIPE MATERIAL SHALL MEET THE PRODUCT SPECIFICATIONS OF ASTM F667 AND SHALL HAVE A SMOOTH WALL INTERIOR. FOR ALL STORM SYSTEMS, WORK MUST BEGIN AT THE LOW POINT OF THE SYSTEMS. NOTIFY THE ENGINEER IMMEDIATELY OF ANY VARIANCES FROM EXPECTED CONDITIONS.
- CURB INLET FRAME, GRATE AND HOOD SHALL CONFORM TO NCDOT 840.03E, DROP INLET FRAME AND GRATE SHALL CONFORM TO NCDOT 840.16. FIELD INLET COVER SHALL CONFORM TO NCDOT STANDARD DETAIL 840.03, OPENING FACING UPSTREAM. MANHOLE RING AND LID TO CONFORM TO NCDOT 840.04. OPEN THROAT INLETS TO CONFORM TO NCDOT 840.04 WITH A MANHOLE RING AND LID INSTALLED IN THE TOP FOR ACCESS TO THE STRUCTURE. SET ACCESS POINT ADJACENT TO A STRUCTURE WALL AS TO ALLOW ACCESS TO STEPS.
- CONCRETE AND MASONRY SHALL MEET THE REQUIREMENTS OF APPROPRIATE SECTION OF NCDOT STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES (LATEST EDITION). CONCRETE SHALL BE CLASS A OR B, 4000 PSI MINIMUM, MEETING THE REQUIREMENTS OF SECTION 900, CONSTRUCTED IN ACCORDANCE WITH SECTION 825. MASONRY SHALL MEET THE REQUIREMENTS OF SECTION 940, CONSTRUCTED IN ACCORDANCE WITH SECTION 830 AND/OR 834.
- TRENCH BACKFILL AND COMPACTION TESTING SHALL BE PERFORMED BY A CERTIFIED SOILS LABORATORY UNDER ALL PAVED AREAS.
- CONTRACTOR RESPONSIBLE FOR KEEPING ACCURATE LOG OF SITE CONDITIONS IN ACCORDANCE WITH NPDES PERMIT. MAINTENANCE INSPECTIONS SHALL BE PERFORMED WEEKLY AND AFTER EACH RAINFALL. ALL REPAIRS NECESSARY SHOULD BE MADE IMMEDIATELY AND IN STRICT ACCORDANCE WITH NCDCE STANDARDS AND NPDES PERMIT. CONTRACTOR SHALL SUPPLY THE ENGINEER WITH RECORD OF DEVIATIONS FROM PLANS FOR PREPARATION OF FINAL RECORD DRAWINGS.
- ALL SLOPES GREATER THAN 2:1 SLOPE AND OVER 5' IN HEIGHT SHALL BE CERTIFIED BY A LICENSED PROFESSIONAL AS REQUIRED BY NCDCE.
- CONTRACTOR IS REQUIRED TO OBTAIN AND PROVIDE A COPY OF THE EROSION CONTROL PERMIT FOR ANY OFFSITE BORROW/ SPOIL AREA. CONTRACTOR MUST PROVIDE COPY OF PERMIT TO NCDCE INSPECTOR PRIOR TO CONSTRUCTION.
- IF BORROWED OR WASTE FILL MATERIAL IS GENERATED, AN APPROVED GRADING PERMIT MUST BE SECURED FOR THE BORROW OR WASTE MATERIAL SITE PRIOR TO INITIATION OF ANY LAND DISTURBING ACTIVITY.
- ALL FILL SLOPES SHALL BE COMPACTED FULL DEPTH TO NOT LESS THAN 95% MAXIMUM DENSITY (STANDARD PROCTOR), SHALL BE PLACED ON A SURFACE CLEARED OF GROWTH AND DEBRIS, AND BE PROPERLY BENCHED AND DRAINED.
- COMPACTION REPORTS MUST BE PROVIDED TO NCDCE STORMWATER SERVICES DIVISION INDICATING THAT FILL HAS BEEN COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY (STANDARD PROCTOR).
- ALL FILL MATERIAL, UNLESS A PERMIT FROM NCDCE DIVISION OF WASTE MANAGEMENT TO OPERATE A LANDFILL IS ON FILE FOR THE OFFICIAL SITE, SHALL BE FREE OF ORGANIC OR OTHER DEGRADABLE MATERIALS, MASONRY, CONCRETE AND BRICK SIZES EXCEEDING 12 INCHES, AND ANY MATERIALS WHICH COULD CAUSE THE SITE TO BE REGULATED AS A LANDFILL BY THE STATE OF NORTH CAROLINA.

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08/04/25

CANTON POLICE STATION RENO

EROSION CONTROL DETAILS (CONT.)

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

DRAWN BY: MFK
CDC PROJECT NO.: 22903

SHEET

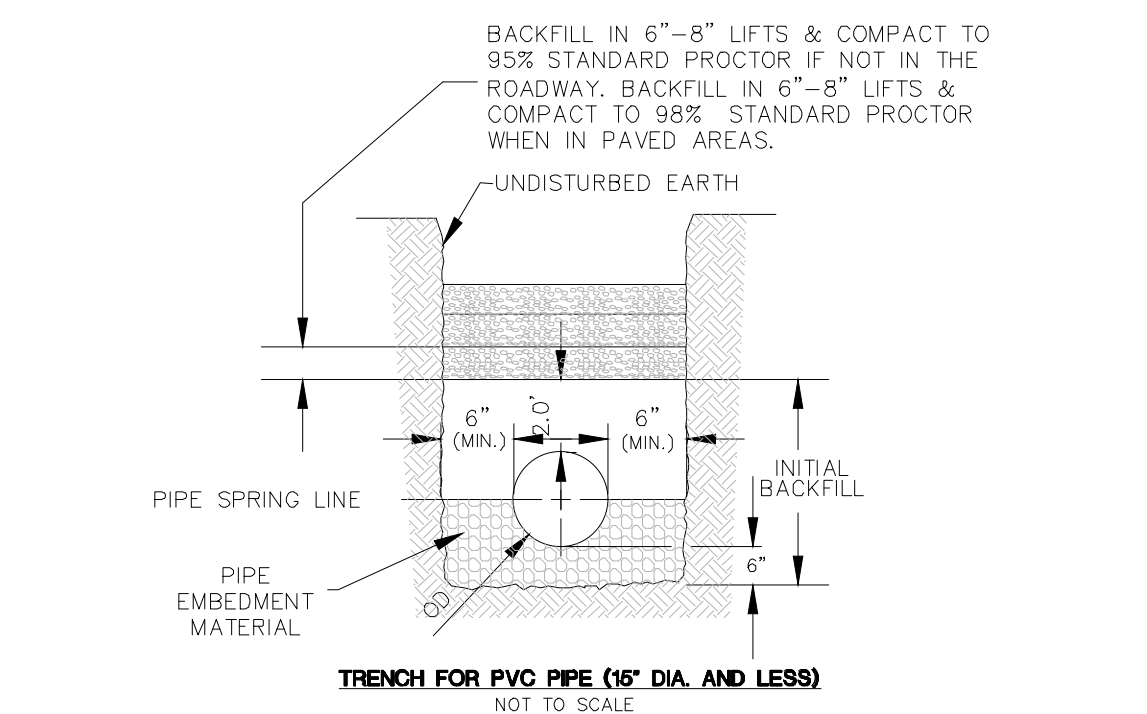
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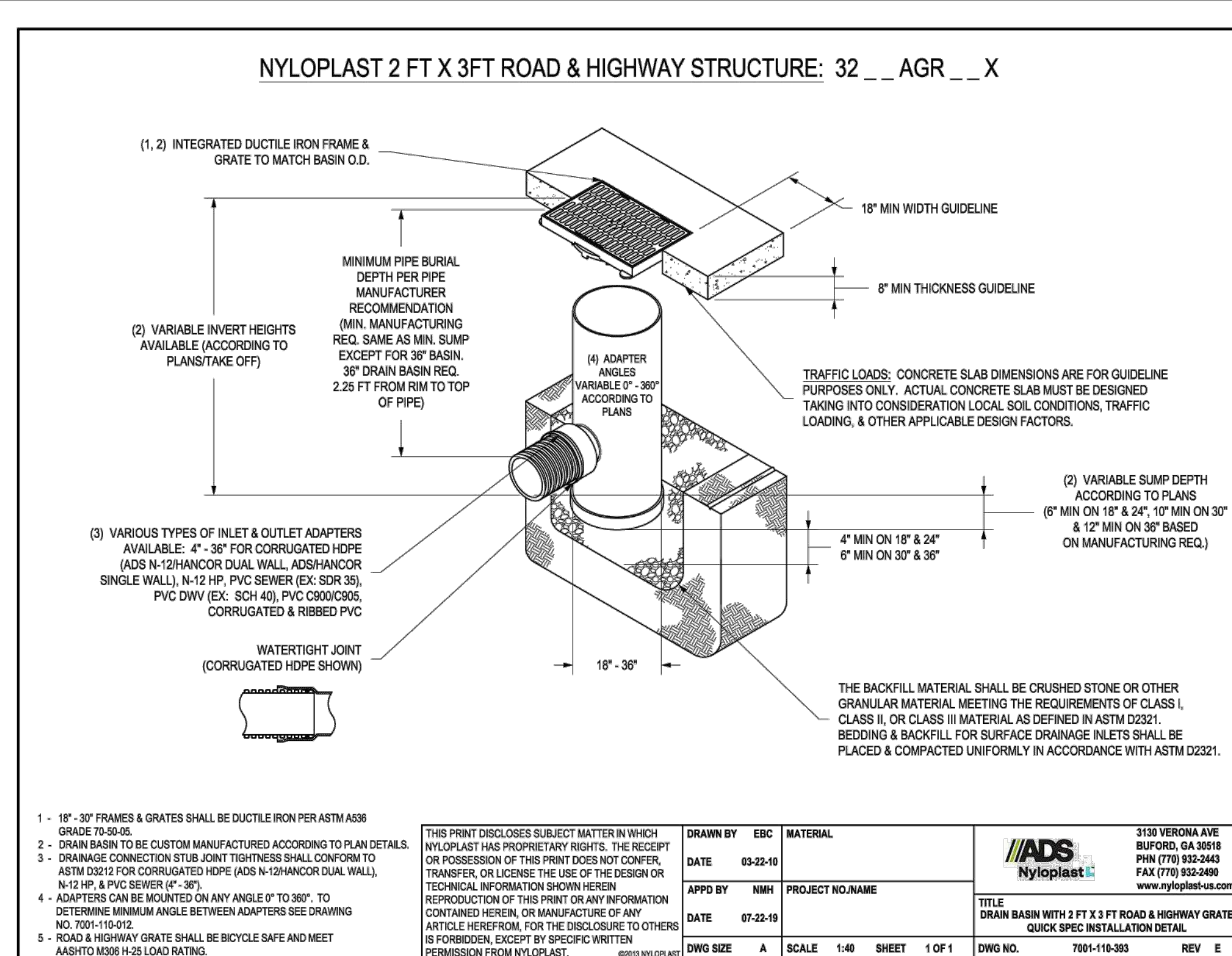
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NOTES:

1. PVC PIPES REQUIRE CLASS I PIPE EMBEDMENT MATERIALS.
2. WHEN TRENCH IS SUBJECT TO INUNDATION, EMBEDMENT MATERIALS MUST EXTEND TO TOP OF PIPE.
3. NO BOULDERS OR STONES IN EXCESS OF 4" WILL BE USED IN INITIAL BACKFILL.
4. THIS DETAIL IS VALID FOR PVC SEWER PIPE INSTALLED AT DEPTHS OF UP TO 20 FEET.
5. PVC PIPE NOT ALLOWED WITH LESS THAN 3'-0" COVER.

(D4.01) TRENCH FOR PVC PIPE
NOT TO SCALE



1" - 10" FRAMES & GRATES SHALL BE OBTAINED FROM ASTM A582 SOURCE.	THIS PRINT DISCLOSES NO PROPRIETARY MATTER IN WHATEVER MANNER THIS PRINT HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONSTITUTE AN AGREEMENT TO DISCLOSE OR THE USE OF ANY INFORMATION CONTAINED HEREIN FOR ANY PURPOSES OTHER THAN THAT FOR WHICH IT WAS SPECIFICALLY INTENDED.	DRAWN BY: ERC MATERIAL:	1518 VIRGINIA AVE BIRMINGHAM, GA 30616
DRAWN BASED TO CUSTOM MANUFACTURING ACCORDING TO PLAN DETAILS.		DATE: 02-28-09	P.O. BOX 2340 BIRMINGHAM, AL 35202
2" FRAMING CHANNELS SHALL BE OBTAINED FROM ASTM A582 SOURCE FOR COMBUSTIBLE (HALL & 10" SPANNING CURB WALL).		APPROY BY: NRC PROJECT NO: 0000000000	 1518 VIRGINIA AVE BIRMINGHAM, GA 30616 P.O. BOX 2340 BIRMINGHAM, AL 35202 www.nyplosat.com
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2" FRAMING CHANNELS SHALL BE OBTAINED FROM ASTM A582 SOURCE FOR COMBUSTIBLE (HALL & 10" SPANNING CURB WALL).		DATE: 02-28-09	75% TO 100% & HIGHWAY CATCH
2" FRAMING CHANNELS SHALL BE OBTAINED FROM ASTM A582 SOURCE FOR COMBUSTIBLE (HALL & 10" SPANNING CURB WALL).			

MODEL	HP	VOLTAGE	PHASE	FULL LOAD AMPS	LOCKED ROTOR AMPS	THERMAL OVERLOAD TEMP	STATOR WINDING CLASS	CORD LENGTH	DISCHARGE	AUTOMATIC
293	3/4	115	1	10.4	24	120°C / 248°F	B	10'	1-1/2"	YES, PIGGYBACK FLOAT
293HV	3/4	208-230	1	5.3	13	120°C / 248°F	B	10'	1-1/2"	YES, PIGGYBACK FLOAT
293-2	3/4	115	1	10.4	24	120°C / 248°F	B	25'	1-1/2"	YES, PIGGYBACK FLOAT
293HV-2	3/4	208-230	1	5.3	13	120°C / 248°F	B	25'	1-1/2"	YES, PIGGYBACK FLOAT
293-3	3/4	115	1	10.4	24	120°C / 248°F	B	35'	1-1/2"	YES, PIGGYBACK FLOAT
293HV-3	3/4	208-230	1	5.3	13	120°C / 248°F	B	35'	1-1/2"	YES, PIGGYBACK FLOAT
297	3/4	115	1	10.4	24	120°C / 248°F	B	10'	1-1/2"	YES, VERTICAL MAGNETIC FLOAT
297HV	3/4	208-230	1	5.3	13	120°C / 248°F	B	10'	1-1/2"	YES, VERTICAL MAGNETIC FLOAT
297-2	3/4	115	1	10.4	24	120°C / 248°F	B	25'	1-1/2"	YES, VERTICAL MAGNETIC FLOAT
297HV-2	3/4	208-230	1	5.3	13	120°C / 248°F	B	25'	1-1/2"	YES, VERTICAL MAGNETIC FLOAT
297-5	3/4	115	1	10.4	24	120°C / 248°F	B	50'	1-1/2"	YES, VERTICAL MAGNETIC FLOAT

(D4.04)

290-SERIES

Liberty Pumps
A Family and Employee Owned Company

3/4 hp
1-1/2" Discharge
3/4" Solids handling

The Liberty Pumps 290-Series provides a cost effective "mid-range" pump for on-site waste water systems, liquid waste transfer and commercial heavy-duty sump pump applications that require higher head or more flow. Designed around Liberty Pumps unique "Uni-Body" casting, the 290-Series will provide years of reliable performance.

Features

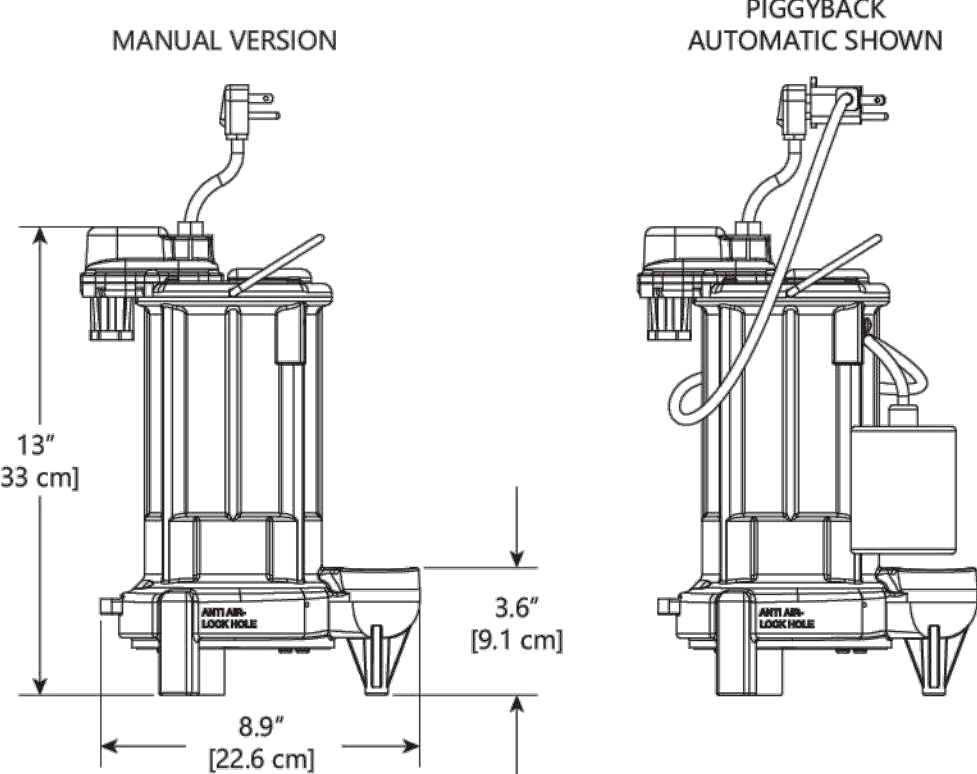
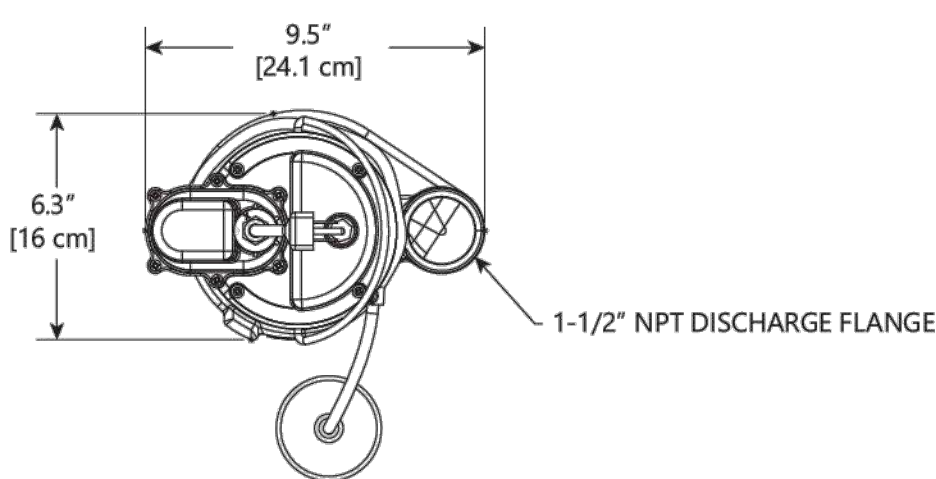
- Unique, one-piece "uni-body" casting
- Quick-connect power cord allows replacement of cord in seconds without breaking motor seals
- Permanently lubricated upper and lower bearings
- Oil-filled, hermetically sealed motors with thermal overload protection
- Stainless steel, removable bottom screen
- Stainless steel rotor shaft
- Non-corrosive stainless-steel fasteners

Available switches:

- Manual (No switch)
- Heavy-duty Vertical Magnetic Float (VMF)
- Integral wide-angle float
- Wide-angle float with piggyback plug



(D4.02)



D4.03

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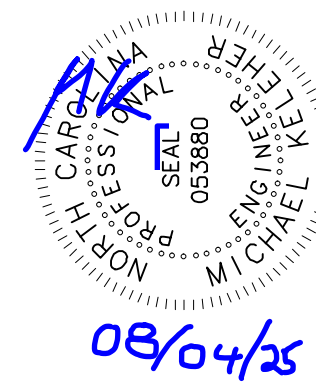
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GENERAL NOTES FOR STORM

1. ALL STORM INSTALLATION ON THIS SITE MUST BE AUTHORIZED BY PERMITS ISSUED BY THE **TOWN OF CANTON**. ALL SITEWORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATORY STANDARDS AND ALL REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS.
2. CONTRACTOR TO VERIFY WITH ENGINEER THAT THE REQUIRED STORMWATER, AND ASSOCIATED NON-GRADING PERMITS HAVE BEEN OBTAINED PRIOR TO BEGINNING CONSTRUCTION.
3. ALL CONSTRUCTION SHALL BE UNDER THE INSPECTION OF THE ENGINEER, THE OWNER, AND **TOWN OF CANTON**. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO BEGINNING WORK. ANY WORK COVERED PRIOR TO ENGINEER'S INSPECTION IS SUBJECT TO UNCOVERING AND BACKFILLING AT THE CONTRACTOR'S EXPENSE.
4. ALL WORK MUST BE PERFORMED BY A **NORTH CAROLINA LICENSED CONTRACTOR**.
5. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS AWARE OF ANY CONFLICTS OR DISCREPANCIES, THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION.
6. PROTECT EXISTING SITE FEATURES (SHOWN TO REMAIN) AND NEWLY COMPLETED WORK DURING CONSTRUCTION. ANY DAMAGE INCURRED OR RESULTING FROM ANY CONSTRUCTION ACTIVITY OF THE CONTRACTOR AND ITS PERSONNEL IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES, AS WELL AS THE PROJECT PLANS AND SPECIFICATIONS, AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION BEGINS. CONSTRUCTION SHALL BE STOPPED IMMEDIATELY IF A UTILITY IS LOCATED AT **811**, 48 HOURS BEFORE CONSTRUCTION BEGINS. NOTIFY THE ENGINEER AT LEAST 72 HOURS BEFORE STARTING CONSTRUCTION ACTIVITIES.
8. EROSION CONTROL IS FIELD PERFORMANCE BASED AND CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION TO ASSURE MAXIMUM PROTECTION OF THE SITE. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL MEASURES REQUIRED TO CONTROL SEDIMENT DURING INSTALLATION ALL STORM PIPES AND APPURTENANCES.
9. CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAINING, AND REMOVING ALL NECESSARY EROSION AND SEDIMENTATION CONTROL MEASURES.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ADJUSTMENT OF ALL UTILITY SURFACE ALLEGES WHETHER THE CONTRACTOR PERFORMS THE WORK OR A UTILITY COMPANY PERFORMS THE WORK.
11. ALL HIGH DENSITY POLYETHYLENE (HDPE) CORRUGATED STORM SEWER DETENTION PIPE SHALL BE 24" HANGAR, 40' MINIMUM UNLOADED OR APPROVED EQUIV. WITH WATER TIGHT JOINTS MEETING AASHTO M252, M254 OR MPT. ALL HDPE PIPE IS TO BE INSTALLED IN ACCORDANCE TO MANUFACTURERS SPECIFICATIONS AND IN ACCORDANCE WITH ASTM D2321 WITH THE EXCEPTION THAT MINIMUM COVER IN TRAFFIC LOAD AREA SHALL BE 24" FOR "48" AND 18" FOR 60". PIPE MATERIAL SHALL MEET THE PRODUCT SPECIFICATIONS OF AASHTO M252 AND SHALL BE 100% HDPE. ALL HDPE PIPE, INTERIOR AND EXTERIOR, MUST BEGIN AT THE LOW POINT OF THE SYSTEMS. NOTIFY THE ENGINEER IMMEDIATELY OF ANY VARIANCES FROM EXPECTED CONDITIONS.
12. CURB INLET FRAME, GRATE AND HOOD SHALL CONFORM TO NCDDOT 840.03E. DROP INLET FRAME SHALL CONFORM TO NCDDOT 840.03E. GRATE SHALL CONFORM TO NCDDOT STANDARD DETAIL 840.03, OPENING FACING UPSTREAM. MANHOLE RINGS AND LID TO CONFORM TO NCDDOT 840.04. OPEN THROAT INLETS TO CONFORM TO NCDDOT 840.04 WITH A MINIMUM OF 18" IN THE TOP FOR ACCESS TO THE STRUCTURE. SET ACCESS POINT ADJACENT TO A STRUCTURE WALL AS TO ALLOW ACCESS TO ALL STEPS.
13. CONCRETE AND MASONRY SHALL MEET THE REQUIREMENTS OF APPROPRIATE SECTION OF NCDDOT STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES (LATEST EDITION). CONCRETE SHALL BE CLASS A OR B, 4000 PSI MINIMUM. MEET THE REQUIREMENTS OF NCDDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF CONCRETE. MEET THE REQUIREMENTS OF SECTION 940, CONSTRUCTED IN ACCORDANCE WITH SECTION 830 AND/OR 834.
14. TRENCH BACKFILL AND COMPACTION TESTING SHALL BE COMPLETED BY A CERTIFIED SOILS LABORATORY UNDER ALL PAVED AREAS.
15. COMPACTION REPORTS MUST BE PROVIDED TO THE **TOWN OF CANTON STORMWATER** DIVISION. DIVISION INDEXING OF ALL FILLS BE COMPLETED TO A MINIMUM OF 95% MAXIMUM DENSITY (STANDARD PROCTOR).

1000 W. Morehead St.
Suite 120
Charlotte, NC 28208
p 704.376.6000
www.creechassociates.com

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STORM DETAILS FOR:

CANTON POLICE STATION RENO

TOWN OF CANTON, NC - TOWN OF CANTON, NORTH CAROLINA

[illegible]

Package: CONSTRUCTION
DOCUMENTS

Project Number: 2023-001-0

Date: JULY 7, 2025

DRAWN BY: MF
CDC PROJECT NO.: 225

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STORM DETAILS

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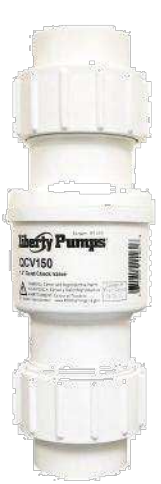
290-Series Technical Data

IMPELLER	VORTEX ENGINEERED POLYMER
SOLIDS HANDLING SIZE	3/4"
PAINT	POWDER COAT
MAX LIQUID TEMP	
CONTINUOUS DUTY	40°C / 104°F
INTERMITTENT	60°C / 140°F
MAX STATOR TEMP	CLASS B 130°C / 266°F
THERMAL OVERLOAD	120°C / 248°F
POWER CORD TYPE	
10' AND 25'	SITW
35' AND 50'	SITOOW
MOTOR HOUSING / VOLUTE	CLASS 25 CAST IRON
SHAFT	STAINLESS
HARDWARE	STAINLESS
O-RINGS	BUNA-N
SHAFT SEAL	CARBON CERAMIC
WEIGHT	14 KG / 31 LBS
CERTIFICATIONS	SSPMA, cCSAus

D4.05

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7000 Apple Tree Avenue Bergen NY 14616 Phone 1-800-543-2550 Fax 1-585-494-1839 Email Liberty@LibertyPumps.com Web www.LibertyPumps.com

QUIET CHECK VALVES



Quiet Check Valves

QCV150 1-1/2"

QCV200 2"

- Socket-weld connection with threaded union
- Heavy-duty PVC
- Angled seat reduces "water hammer" effect
- 150 PSI rated at 72°F
- Vertical or horizontal installation
- Less friction and easier pumping due to full port design



Quiet Ball/Check/Union Combo

QBVCV150C 1-1/2"

QBVCV200C 2"

- Compression-style connection
- In-line shut off and back flow prevention combination
- Heavy-duty PVC
- Angled seat reduces "water hammer" effect and flow reversal
- 150 PSI rated at 72°F
- Vertical or horizontal installation
- Less friction and easier pumping due to full port design



Clear Quiet Check Valves

QCV150C-CL 1-1/2"

QCV200C-CL 2"

- Compression-style connection
- Heavy-duty clear PVC
- Angled seat reduces "water hammer" effect
- 150 PSI rated at 72°F
- Vertical or horizontal installation
- Less friction and easier pumping due to full port design

D4.06

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CANTON POLICE STATION RENO

STORM DETAILS FOR

TOWN OF CANTON, NC -- TOWN OF CANTON, NORTH CAROLINA

STORM DETAILS

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

DRAWN BY: MFK
CDC PROJECT NO.: 22903

SHEET

C942



- NOTES:
1. ALL FITTINGS MUST BE RESTRAINED AS SPECIFIED IN SECTION 6.05 OF THE STANDARD SPECIFICATIONS AND DETAILS MANUAL.
 2. DIMENSION TABLE GIVEN IS A GUIDE ONLY. ENGINEER SHALL BE RESPONSIBLE TO CALCULATE THRUST BLOCK DIMENSIONS BASED ON ACTUAL SOIL AND OPERATING PRESSURE CONDITIONS.
 3. FITTING JOINTS SHALL BE KEPT FREE OF CONCRETE. A LAYER OF POLYETHYLENE PLASTIC SHALL BE PLACED BETWEEN THE FITTING AND THE CONCRETE.
 4. PRE-CAST THRUST BLOCKS ARE NOT ACCEPTABLE.
 5. CONCRETE SHALL HAVE 4000 P.S.I. COMPRESSIVE STRENGTH.



1. WATER CONSTRUCTION ON THIS SITE MUST BE AUTHORIZED BY PERMITS ISSUED BY THE **TOWN OF CANTON**. ALL STEWARK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL REGULATORY STANDARDS, AND ALL REQUIREMENTS IN THE PERMIT TECHNICAL SPECIFICATIONS.
2. CONTRACTOR TO VERIFY WITH ENGINEER THAT THE REQUIRED WATER PERMITS AND ASSOCIATED NON-WATER PERMITS HAVE BEEN OBTAINED PRIOR TO BEGINNING CONSTRUCTION.
3. ALL CONSTRUCTION SHALL BE UNDER THE OBSERVATION OF THE ENGINEER, THE OWNER, AND THE **TOWN OF CANTON**. THE ENGINEER SHALL PERIODICALLY OBSERVE THE PROGRESS OF INSTALLATION AND SHALL COMPLETE A FINAL WATER AND SEWER INSPECTION. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS AND EQUIPMENT, INCLUDING MATERIALS, EQUIPMENT, PROCEDURES, AND CERTIFIED LABORATORY TEST RESULTS FOR USE WITH ENGINEERS FINAL CERTIFICATION OF COMPLETION. ANY WORK COVERED PRIOR TO ENGINEER INSPECTION IS SUBJECT TO UNCOVERING AND BACKFILLING AT THE CONTRACTOR'S EXPENSE.
4. ALL WORK MUST BE PERFORMED BY A **NORTH CAROLINA LICENSED UTILITY CONTRACTOR**
5. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION; AND TO NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROVED BY THE CITY OF CANTON. UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL PROTECT EXISTING AND NEWLY BUILT UTILITIES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY UGOD AT 1-800-632-4949 OR 811, 72 HOURS BEFORE CONSTRUCTION BEGINS. NOTIFY THE ENGINEER AT LEAST 72 HOURS BEFORE STARTING CONSTRUCTION ACTIVITIES.
8. EROSION CONTROL IS FIELD PERFORMANCE BASED AND CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES TO PREVENT EROSION AND TO ACHIEVE EROSION PROTECTION OF THE SITE. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL MEASURES REQUIRED TO CONTROL SEDIMENT DURING INSTALLATION ALL WATER PIPES AND APPURTENANCES.
9. ALL WATER LINES AND SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH NC PLUMBING CODES AND THE **TOWN OF CANTON UTILITY DEPARTMENT**. COORDINATE EXACT LOCATIONS OF SERVICE LINES AND APPURTENANCES WITH THE ARCHITECTURAL, PLUMBING, AND MECHANICAL PLANS.
10. CONTRACTOR TO PROVIDE 5' MIN. LATERAL SEPARATION BETWEEN WATER LINE AND UNDERGROUND UTILITIES. SEE DETAILS FOR GENERAL NOTES CONCERNING WATER MAIN INSTALLATION REQUIREMENTS.
11. A 3' COVER DEPTH SHALL BE MAINTAINED FOR ALL PROPOSED WATER LINES. ANY NECESSARY FIELD ADJUSTMENTS MUST BE APPROVED BY THE ENGINEER AND THE CITY INSPECTOR.
12. INSTALL FERROUS PIPING FOR BOTH WATER AND SEWER WITHIN 10' OF CROSSING IF:
 - A. SEWER LINE CROSSES OVER WATER, OR
 - B. VERTICAL CLEARANCE BETWEEN WATER AND SEWER IS LESS THAN 18".
13. MAINTAIN 18" HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES UNLESS LAID IN SEPARATE TRENCHES WITH THE BOTTOM OF THE WATER LINE AT LEAST 18" ABOVE THE TOP OF SEWER OR USE FERROUS MATERIAL FOR BOTH DRAIN AND SANITARY SEWER.
14. MAINTAIN 18" VERTICAL SEPARATION BETWEEN STORM DRAIN AND WATER OR THE WATER MAIN MUST BE CONSTRUCTED OF FERROUS MATERIALS FOR A DISTANCE OF AT LEAST 10' FROM EITHER SIDE.
15. MAINTAIN 5' HORIZONTAL DISTANCE BETWEEN WATER LINES AND THE DRIP LINE. AT MATURITY, OF TREES AND OTHER SHRUBS.
16. **TOWN OF CANTON OWNERSHIP** AND MAINTENANCE ENDS AT WATER METER AND/OR THE FIRE LINE ISOLATION VALVE. WATER SYSTEM BEYOND IS TO BE PRIVATELY OWNED AND MAINTAINED.
17. METERS, VAULTS, AND FIRE HYDRANTS ARE TO BE PLACED IN RELATIVELY FLAT AREAS.
18. BRASS FITTINGS MUST BE LEAD FREE PER **TOWN OF CANTON** REQUIREMENTS.
19. CONTRACTOR RESPONSIBLE FOR ADJUSTING EXISTING WATER APPURTENANCES AS NECESSARY DUE TO ANY SITE CONSTRUCTION OR INSTALLATION.
20. TRENCH BACKFILL AND COMPACTION TESTING SHALL BE PERFORMED BY A CERTIFIED SOILS LABORATORY UNDER ALL PAVED AREAS.
21. CONTRACTOR SHALL SUPPLY THE ENGINEER WITH RECORD OF DEVIATIONS FROM PLANS FOR PREPARATION OF FINAL RECORD DRAWINGS.
22. PRESSURE TEST WATER MAINS TO 200 PSI MIN. AND 250 PSI MAX. AS PER **TOWN OF CANTON** REQUIREMENTS. PRESSURE TEST SEWER MAINS TO 15 PSI MAX. PER THE RULES GOVERNING BACTERIOLOGICAL TEST FROM A CERTIFIED TESTING LABORATORY FOR USE WITH THE ENGINEERS CERTIFICATION OF COMPLETION.
23. THE PERMITS REQUIRE CERTIFICATION OF COMPLETION BY THE ENGINEER OF THE WATER SYSTEM PRIOR TO ISSUING A FINAL PERMIT. THE ENGINEER AND PROVIDE ACCEPTABLE TO THE CITY OF CANTON. THE CITY OF CANTON WILL PROVIDE APPROVAL AND APPROVE TO THE **TOWN OF CANTON** SERVICE WILL BE PROVIDED ONCE FINAL CLOSURE SUBMITTALS HAVE BEEN APPROVED BY THE **TOWN OF CANTON'S** ENGINEERING DEPARTMENT.
24. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DECREE 1000 OF THE NORTH CAROLINA GENERAL ASSEMBLY. PER THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL BE LISTED ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVED ASSEMBLIES. THEY SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM PROVIDER IS MORE STRINGENT.
25. RESTRAINED JOINTS BY AN APPROVED PIPE MANUFACTURER ARE TO BE USED FOR ALL PUBLIC LINES WHERE THRUST RESTRAINING IS REQUIRED; HOWEVER, THRUST BLOCKS ARE PERMITTED WHERE CONNECTIONS ARE MADE TO EXISTING WATER LINES OR WHERE

CANTON POLICE STATION RENO

TOWN OF CANTON NC - TOWN OF CANTON NORTH CAROLINA

C971

WATER DETAILS

GENERAL:

1. PROVIDE CONSTRUCTION CONFORMING TO THE 2024 NORTH CAROLINA STATE EXISTING BUILDING CODE (2021 INTERNATIONAL EXISTING BUILDING CODE WITH REVISIONS). REFERENCE TO LATEST EDITION OR OTHER STANDARDS, SPECIFICATIONS OR CODES SHALL MEET THE LATEST STANDARD OR CODE PUBLISHED AND ADOPTED BY THE LISTED BUILDING CODE.
2. MATERIAL TESTS AND INSPECTIONS ARE REQUIRED PER CHAPTER 17 OF THE XXXX INTERNATIONAL BUILDING CODE. REFER TO THE LATEST EDITION OF THE SPECIFIC INSPECTIONS FOR REQUIRED TESTS AND INSPECTIONS.
3. THESE NOTES APPLY EXCEPT WHERE OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
4. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SUBMITTED SHOP DRAWINGS DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
5. COORDINATE THE STRUCTURAL, CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND OTHER CONSULTANTS. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD IN WRITING OF ANY CONFLICT AND/OR OMISSION. WHERE A CONFLICT OCCURS, THE STRICTEST REQUIREMENT SHALL GOVERN UNLESS OTHERWISE DECIDED BY THE DESIGN TEAM.
6. COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS SHOWN WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS. OBTAIN WRITTEN APPROVAL OF ADDITIONAL OPENINGS LARGER THAN 12" x 12" FROM THE STRUCTURAL ENGINEER OF RECORD.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND ALL OTHER MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION.
8. COORDINATE THE BUILDING ORIENTATION WITH THE ARCHITECTURAL DRAWINGS.
9. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF EACH BUILDING COMPONENT NOT DESIGNED BY THE DESIGN TEAM OF RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE MADE AVAILABLE AT THE JOB SITE FOR REVIEW.
10. UNO, FIREPROOFING REQUIREMENTS, METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
11. ALL REACTIONS AND FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS (LRFD COMBINATIONS) UNO.
12. DO NOT SCALE OFF OF DRAWINGS, ASK ARCHITECT FOR DIMENSIONS NOT SHOWN.

DESIGN LOADS:

1. LIVE LOADS:	UNIFORM	CONCENTRATED
SLAB ON GRADE	=100 PSF	2000 LB
OFFICES	=80 PSF	2000 LB
STAIRS	=100 PSF ON STAIR TREADS	300 LB ON AREA OF 4 SQUARE INCHES
ROOF TERRACES ABOVE THE FIRST FLOOR	=20 PSF	2000 LB
ARMORY	=80 PSF	
2. RISK CATEGORY	=150 PSF	
3. WIND DESIGN DATA:		
ULTIMATE WIND SPEED, V _{ULT}	=118 MPH	
NOMINAL WIND SPEED, V _{ASD}	=84 MPH	
WIND EXPOSURE	=B	
INTERNAL PRESSURE COEFFICIENT	=+0.18	
COMPONENTS AND CLADDING PRESSURES	=SEE TABLE	
4. ROOF SNOW LOADING		
GROUND SNOW LOAD (P _g)	=15 PSF	
FLAT-ROOF SNOW LOAD (P _f)	=18 PSF	
SNOW EXPOSURE FACTOR (C _e)	=1.0	
SNOW LOAD IMPORTANCE FACTOR (I _s)	=1.2	
THERMAL FACTOR (C _t)	=1.0	
5. SEISMIC DESIGN DATA		
SEISMIC IMPORTANCE FACTOR (I _e)	=1.5	
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS (S _s)	=0.325	
PARAMETERS (S ₁)	=0.098	
SITE CLASS	=C	
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS (S _{DS})	=0.282	
PARAMETERS (S _{1D})	=0.098	
6. SEISMIC DESIGN CATEGORY	=C	
BASIC SEISMIC FORCE RESISTING SYSTEM	=STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE	
DESIGN BASE SHEAR	=120K SEISMIC	
SEISMIC RESPONSE COEFFICIENT (C _s)	=0.14	
RESPONSE MODIFICATION COEFFICIENT (R ₁)	=8.0	
PROCEDURE USED	=UNQUALIFIED LATERAL FORCE PROCEDURE	
7. FLOOD DESIGN DATA		
FLOOD HAZARD ZONE DESIGNATION	=X (UNSHADED)	

EXISTING CONDITIONS:

1. RENOVATION OF EXISTING STRUCTURES REQUIRES THOROUGH COORDINATION OF THE CONTRACT DOCUMENTS WITH EXISTING CONDITIONS. THE CONTRACTOR MUST VERIFY ALL RELEVANT EXISTING CONDITIONS, DIMENSIONS AND DETAILS PRIOR TO BEGINNING CONSTRUCTION. REPORT ANY DEVIATIONS FROM CONDITIONS OR DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW OF THE DESIGN AND POSSIBLE REVISION OF THE CONTRACT DOCUMENTS.
2. THE NATURE OF STRUCTURAL DEMOLITION AND STABILIZATION IS INHERENTLY UNCERTAIN. THE EXACT CONDITION AND CAPACITY OF EACH STRUCTURAL ELEMENT CANNOT BE VERIFIED PRIOR TO THE COMMENCEMENT OF WORK. AS A RESULT, IT IS IMPERATIVE TO REPORT ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS, AS WELL AS ANY ELEMENT OF QUESTIONABLE STRUCTURAL INTEGRITY IMMEDIATELY TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW.
3. NO ATTEMPT HAS BEEN MADE TO DEFINE EACH SPECIFIC STRUCTURAL ELEMENT THAT MUST BE REMOVED, ENHANCED OR REPLACED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE CONDITION OF INDIVIDUAL ELEMENTS, TO DETERMINE WHICH ELEMENTS CAN BE SALVAGED, WHICH ELEMENTS MUST BE REPLACED AND WHICH ELEMENTS ARE QUESTIONABLE. THE CONTRACTOR SHOULD CONSULT WITH THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD TO DETERMINE THE APPROPRIATE PROCEDURE FOR HANDLING ELEMENTS IN QUESTIONABLE CONDITION.
4. THE DIMENSIONS AND ELEVATIONS SHOWN FOR THE EXISTING CONSTRUCTION ARE NOT AS-BUILT DIMENSIONS BUT WERE OBTAINED FROM FIELD MEASUREMENTS, OTHER DRAWINGS AND DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND MEMBER SIZES AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION, FABRICATION, ETC.
5. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS NOT TO DISTURB OR UNDERMINE ANY EXISTING BUILDING FOUNDATIONS OR STRUCTURE AND SHALL PROVIDE SHORING AS REQUIRED.
6. IN AREAS WHERE UNDERMINING OF EXISTING BUILDING FOUNDATION OR STRUCTURE IS REQUIRED BY THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL PROVIDE UNDERPINNING AND/OR SHORING AS REQUIRED TO SUPPORT THE EXISTING BUILDING FOUNDATIONS AND STRUCTURES. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SIGNED AND SEALED CALCULATIONS FOR APPROVAL PRIOR TO CONSTRUCTION. DESIGN SHALL BE COORDINATED WITH GEOTECHNICAL ENGINEERS REPORT AND RECOMMENDATIONS.

PERFORMANCE SPECIFIED ITEMS:

1. EMPLOY OR RETAIN A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF WHICH THIS PROJECT IS LOCATED TO DESIGN THE FOLLOWING STRUCTURAL SYSTEMS AND COMPONENTS:
 - A. TEMPORARY EXCAVATION SUPPORT
 - B. UNDERPINNING
 - C. PROPRIETARY FOUNDATION SYSTEMS
 - D. ARCHITECTURAL/STRUCTURAL PRECAST CONCRETE
 - E. STRUCTURAL STEEL CONNECTIONS REQUIRING ENGINEERING
 - F. LIGHT GAUGE STEEL EXTERIOR WALL SYSTEMS
 - G. STAIR AND HANDRAIL SYSTEMS
 - H. OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DRAWINGS
2. THE COMPONENT ENGINEER IS RESPONSIBLE FOR CODE CONFORMANCE AND ENSURING DESIGN MEETS ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR ALL PERFORMANCE SPECIFIED ITEMS. SUBMITTALS MUST CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS MUST IDENTIFY THE PRODUCT UTILIZED, GENERIC PRODUCTS WILL NOT BE ACCEPTED.
4. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE SEAL, DATE AND SIGNATURE OF THE COMPONENT ENGINEER.
5. SHOP DRAWING SUBMITTALS FOR PERFORMANCE SPECIFIED COMPONENTS SHALL BE REVIEWED BY THE COMPONENT ENGINEER PRIOR TO SUBMITTAL. IF THE SHOP DRAWINGS ARE NOT SIGNED AND SEALED BY THE COMPONENT ENGINEER, THEN PROVIDE A SIGNED LETTER OR A NOTE ON SHOP DRAWING SUBMITTAL, WRITTEN AND SIGNED BY THE COMPONENT ENGINEER INDICATING THAT THE SHOP DRAWINGS ARE IN CONFORMANCE WITH THE CALCULATIONS. ALL CALCULATIONS SHALL BE SIGNED AND SEALED BY COMPONENT ENGINEER, NO EXCEPTIONS WILL BE ALLOWED.
6. SUBMITTALS NOT MEETING THE CRITERIA LISTED IN THIS SECTION WILL BE REJECTED. BENNETT & PLESS, INC. WILL NOT BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTED SUBMITTALS.

SHOP DRAWINGS:

- A. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS THAT ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND SPECIFIC REQUIREMENTS OF THIS PROJECT.
- B. REVIEWING SUBMITTALS AND SHOP DRAWINGS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PREPARATIONS OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
- C. SHOP DRAWINGS WILL BE REVIEWED BY THE ARCHITECT/ENGINEER IN ADDITION TO THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF QUANTITIES, LENGTHS, ELEVATIONS, DIMENSIONS, SUBMITTALS, AND ALL INFORMATION ON FABRICATION.
- D. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY. SHOP DRAWINGS SHALL BE REVIEWED, STAMPED AND SIGNED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.
- E. THE USE OR REPRODUCTIONS OF THESE CONTRACT DRAWINGS OR ANY PART OF THEM BY CONTRACTOR OR IN LIEU OF PREPARATION OF SHOP DRAWINGS WILL BE REJECTED UNCHECKED.
- F. MAXIMUM REQUIRED TURN AROUND TIME FOR SHOP DRAWING APPROVAL BY STRUCTURAL ENGINEER IS TEN (10) WORKING DAYS.
- G. THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED PRIOR TO CONSTRUCTION:
 - A. CONCRETE MIX DESIGN
 - B. CONCRETE REINFORCING
 - C. MASONRY REINFORCEMENT
 - D. MASONRY
 - E. STRUCTURAL STEEL
 - F. STRUCTURAL STEEL CONNECTIONS REQUIRING ENGINEERING
 - G. REINFORCED STEEL JOISTS, STAIRS, RAILINGS AND LADDERS
 - H. METAL ROOF DECK ASSEMBLIES
 - I. LIGHT GAUGE STEEL EXTERIOR OR LOADBEARING WALL SYSTEMS
 - J. EXCAVATION SHORING AND RETAINING SYSTEMS
 - K. SHEET PILING
 - L. SOIL ANCHORS
 - M. MECHANICAL ANCHORS
 - N. CHEMICAL ANCHORS

SPECIAL INSPECTIONS:

1. IN ACCORDANCE WITH THE BUILDING CODE, SECTION 1704, THE OWNER WILL RETAIN THE SERVICES OF "SPECIAL INSPECTORS" TO PERFORM INSPECTIONS PURSUANT TO THE "STATEMENT OF SPECIAL INSPECTIONS" AND THE "SCHEDULE OF SPECIAL INSPECTIONS". THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 110 OF THE BUILDING CODE.
2. THE SPECIAL INSPECTOR SHALL BE QUALIFIED IN ACCORDANCE WITH THE BUILDING CODE.
3. THE CONTRACTOR SHALL COOPERATE WITH SPECIAL INSPECTOR(S) TO FACILITATE EXECUTION OF REQUIRED SERVICES. CONTRACTOR SHALL PROVIDE SPECIAL INSPECTOR(S) WITH CURRENT CONSTRUCTION SCHEDULE.
4. THE CONTRACTOR SHALL SUPPLY THE SPECIAL INSPECTOR WITH ALL CONTRACT DOCUMENTS, INCLUDING TESTS, SPECIFICATIONS, AMENDMENTS, ETC.
5. THE CONTRACTOR SHALL SECURE AND DELIVER TO SPECIAL INSPECTORS ALL REQUIRED SUBMITTALS AND MATERIAL SAMPLES FOR TESTING.
6. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK TO BE INSPECTED BY THE SPECIAL INSPECTORS.
7. THE CONTRACTOR SHALL NOTIFY SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF THE TIME WHEN THE SPECIAL INSPECTOR IS TO ARRIVE AND SCHEDULING BY SPECIAL INSPECTOR, WHEN TEST OR INSPECTION CAN NOT BE PERFORMED AFTER SUCH NOTICE AND WITHOUT ADEQUATE CANCELLATION NOTICE, THE CONTRACTOR SHALL REMBURSE OWNER THROUGH SPECIFICATION, DIVISION 1, PROCEDURES, FOR SPECIAL INSPECTOR'S COSTS AND EXPENSES. THE CONTRACTOR IS RESPONSIBLE FOR COSTS OF RE-TESTING THE SPECIAL INSPECTIONS, TESTS, SPECIFICATIONS, AMENDMENTS, ETC. WHERE RESULTS PROVE UNSATISFACTORY OR NONCOMPLIANT, REGARDLESS OF WHETHER ORIGINAL TEST WAS THE CONTRACTOR'S RESPONSIBILITY. COSTS OF RE-TESTING ARE THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE CONSTRUCTION FOLLOWS THE INTENT OF THE CONTRACT DOCUMENTS, APPLICABLE CODES AND THE PERMIT SUCH THAT THE PUBLIC SAFETY WILL BE PROVIDED TO OCCUPANTS OF THE STRUCTURE.
9. THE SPECIAL INSPECTOR SHALL:
 - A. REVIEW AND BE FAMILIAR WITH THE CONTRACT DOCUMENTS FOR ALL AREAS DEFINED IN THE "SCHEDULE OF SPECIAL INSPECTIONS".
 - B. CONSULT WITH THE DESIGN PROFESSIONALS FOR CLARIFICATIONS CONCERNING QUESTIONS, AMENDMENTS, ETC.
 - C. ATTEND PRE-CONSTRUCTION AND ROUTINE JOINT MEETINGS REQUIRED OF THE CONTRACTOR TO ASSURE THAT THE CONTRACTOR UNDERSTANDS THE CONTRACT DOCUMENTS AND THE INTENT OF THE CONTRACT DOCUMENTS.
 - D. NOTIFY THE CONTRACTOR OF THEIR PRESENCE AND RESPONSIBILITIES AT THE JOB SITE.
 - E. PROVIDE ADEQUATE OBSERVATIONS TO ASSURE THAT THE WORK BY THE CONTRACTOR IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
 - F. PERFORM ALL WORK AS DEFINED IN THE "SCHEDULE OF SPECIAL INSPECTIONS". INSPECTOR'S DRAWINGS AND DOCUMENTS. PERFORM ALL SPECIAL INSPECTIONS INDICATED IN THE SPECIFICATIONS.
 - G. REPORT NONCONFORMING ITEMS TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
 - H. PREPARE AND SUBMIT THE DAILY, INTERIM AND FINAL REPORT OF SPECIAL INSPECTIONS.
 - I. REPORT ANY DAMAGING EVENTS AND OBSERVED NONCONFORMING CONDITIONS SUCH AS EXPOSED REINFORCEMENT, UNSPECIFIED FIELD ALTERATIONS TO STEEL, ETC. AND PREPARE AND SUBMIT A DISCREPANCY REPORT.
 - J. INITIAL AND DATE THE "DATE COMPLETED" BOX IN THE SCHEDULE OF SPECIAL INSPECTIONS SERVICES AS THE INSPECTION AND TESTING ACTIVITIES ARE COMPLETED.
10. THE DISCREPANCY REPORT SHALL BE WRITTEN FOR EACH NONCONFORMING ITEM AND SHALL CONTAIN:
 - A. DESCRIPTION AND LOCATION.
 - B. REFERENCE TO APPLICABLE DRAWINGS AND SPECIFICATIONS.
 - C. RESOLUTION OR CORRECTIVE ACTION TAKEN AND THE DATE.
11. THE DAILY AND INTERIM REPORT SHALL CONTAIN:
 - A. DESCRIPTION OF THE SPECIAL INSPECTION AND TESTS MADE WITH LOCATION.
 - B. INDICATION OF NONCONFORMING ITEMS AND THEIR RESOLUTION.
 - C. LISTING OF UNRESOLVED ITEMS AND PARTIES NOTIFIED.
 - D. ITEMIZATION OF ANY CHANGES AUTHORIZED BY THE DESIGN PROFESSIONAL.
12. SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH THE BUILDING CODE SHALL BE AVAILABLE AT THE TIME THE BUILDING IS APPROVED FOR OCCUPANCY.

FOUNDATION:

1. THE DESIGN OF FOUNDATIONS, RETAINING WALLS AND SLABS-ON-GRADE IS BASED ON THE FOLLOWING CRITERIA ESTABLISHED IN THE GEOTECHNICAL REPORT BY SAME DATED AUGUST 18, 2025. PROJECT NUMBER: 25593070.
 - A. ALLOWABLE SOIL BEARING PRESSURE: 1,500 PSF
 - B. EQUIVALENT LATERAL FLUID PRESSURE - ACTIVE CASE: 38 PSF/FT
 - C. EQUIVALENT LATERAL FLUID PRESSURE - AT REST CASE: 64 PSF/FT
 - D. EQUIVALENT LATERAL FLUID PRESSURE - PASSIVE CASE: 300 PSF/FT
 - E. COEFFICIENT OF SLIDING FRICTION: 0.35
 - F. SOIL DENSITY: 115 PCF
2. AFTER EXCAVATION, IF THE CONDITION OF THE SOILS DO NOT MEET THE RECOMMENDED DESIGN CRITERIA STATED IN THE GEOTECHNICAL REPORT, NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD SO THAT THE FOUNDATIONS MAY BE REDESIGNED IF NECESSARY.
3. THE GEOTECHNICAL ENGINEER MUST VERIFY THE CONDITION AND/OR ADEQUACY OF ALL SUB-GRADINGS, FILLS AND BACKFILLS PRIOR TO THE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, ETC.
4. DESIGN OF SLAB-ON-GRADE IS BASED UPON A MODULUS OF SUBGRADE REACTION OF 150 PCF.
5. COORDINATE TOP OF FOOTING ELEVATIONS WITH THE REQUIREMENTS OF OTHER TRADES (PLUMBING, ELECTRICAL, ETC.).
6. A. DEPOSIT BACKFILL AGAINST WALLS EVENLY AGAINST BOTH SIDES OF WALL UNTIL THE LOWER FINISH GRADE IS REACHED.
- B. DO NOT PLACHTIGHTENING AND FINISHING OPERATIONS FOR CONCRETE SURFACES. DO NOT WET CONCRETE SURFACES.
- C. FLOAT FINISH - APPLY FLAT FLOUT FINISH TO SURFACES TO RECEIVE TROWEL FINISH AND TO BE COVERED WITH TILE OR FLUID APPLIED OR SHEET WATERPROOFING.
- D. TROWEL FINISH (AFTER APPLYING FLOAT FINISH).
7. CONSTRUCT COLUMN FOOTINGS AND WALL FOOTINGS MONOLITHICALLY WITH TOPS OF ADJACENT FOOTINGS AT THE SAME ELEVATION.
8. FILLS:
 - A. REMOVE ALL UNSUITABLE SOILS AND REPLACE WITH CLEAN STRUCTURAL FILL AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER.
 - B. PLACE FILL SOILS IN 6" MAXIMUM (LOOSE) REPLACEMENT CONTENTS AS DESCRIBED IN THE GEOTECHNICAL REPORT.
 - C. COMPACT ALL FILL WITH 3-0" OF THE FOUNDATION LIMITS TO 95% STANDARD PROCTOR.
 - D. TEST FIELD DENSITY AS DESCRIBED IN THE GEOTECHNICAL REPORT TO VERIFY ADEQUATE COMPACTION.
 - E. REPAIR AND PATCH DEFECTIVE CONCRETE SURFACE AREAS WHEN APPROVED BY THE ARCHITECT OR STRUCTURAL EOR. REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO THE SATISFACTION OF THE ARCHITECT OR STRUCTURAL EOR.
 - 9. LIMIT FORMWORK SURFACE IRREGULARITIES 1/8 INCH FOR EXPOSED SMOOTH-FORMED FINISHED SURFACES AND 1/4" FOR EXPOSED ROUGH-FORMED FINISHED SURFACES.

REINFORCED CONCRETE:

1. PROVIDE REINFORCED CONCRETE CONFORMING TO THE FOLLOWING STANDARDS:
 - A. ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, LATEST EDITION.
 - B. ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITION.
 - C. ENR, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION, LATEST EDITION.
 - D. ACI 308R, DESIGN OF SLABS-ON-GROUND, LATEST EDITION.
2. PROVIDE REINFORCING STEEL CONFORMING TO ASTM A 615, GRADE 60.
3. FULLY DEVELOP AND SUBMIT FOR REVIEW THE PROPOSED MATERIALS AND MIX DESIGN FOR ALL CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPERTIES AND STRENGTH OF THE CONCRETE. ALL CONCRETE TEST DATA MUST BE AVAILABLE AT THE JOB SITE.
4. DETAIL CONCRETE REINFORCEMENT ACCORDING TO ACI MN-66 DETAILING AND REINFORCING STEEL. CONTRACTOR SHALL DETAIL ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING CONCRETE REINFORCING AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE APPROVED AND REVIEWED BY THE ARCHITECT/ENGINEER. UNLESS SPECIFICALLY APPROVED OTHERWISE, DETAIL ALL CONCRETE WALLS AND BEAMS IN ELEVATION.
5. PROVIDE CONCRETE WITH:
 - A. 4% TO 6% ENTRAINED AIR BY VOLUME IN CONCRETE PERMANENTLY EXPOSED TO WEATHER.
 - B. THE USE OF CALCIUM CHLORIDE, CHLORIDE IONS OR OTHER SALTS IS NOT PERMITTED.
 - C. PLACE CONCRETE AT A SLUMP OF 5" ± 1" UNO.
6. PROVIDE REINFORCING STEEL CONFORMING TO ASTM A 615, GRADE 60. PROVIDE WELDED WIRE REINFORCEMENT (MESH) IN FLAT SHEETS (ROLLS NOT PERMITTED) CONFORMING TO ASTM A1064. LAP WWR A MINIMUM OF 6" AT EACH JOINT.
7. FIBER REINFORCING MAY BE SUBSTITUTED FOR WWR IN SLABS-ON-GRADE WITH THE APPROVAL OF THE STRUCTURAL EOR. PROVIDE FIBER REINFORCING WITH WELDED PATTERN IN 12" MAXIMUM.
8. SEE ARCHITECTURAL DRAWINGS FOR WATERSTOPS.
9. UNO, PROVIDE THE FOLLOWING CONCRETE COVER ON ALL REINFORCING STEEL:
 - A. CONCRETE COVER ON EXPOSED REINFORCING STEEL SHALL BE 2" MINIMUM.
 - B. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
 - a. #6 THROUGH #18 BARS: 2"
 - b. #10 THROUGH #14 BARS: 1 1/2"
 - C. FORMED CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
 - a. SLABS, JOISTS, AND WALLS: 3/4"
 - b. BEAMS (STRIPS) AND COLUMNS (TIES): 1 1/2"
10. REINFORCING, INCLUDING DOWELS, SHALL BE SECURELY TIED AND CAST WITH THE LOWER MEMBER. PLACING REINFORCING AFTER CONCRETE HAS BEEN PLACED IS NOT PERMITTED.
11. FIELD BENDING OF REINFORCING PARTIAL EMBEDDED IN CONCRETE IS NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THE STRUCTURAL DOCUMENTS OR APPROVED BY STRUCTURAL ENGINEER.
12. PROVIDE DOWELS FROM THE FOUNDATION WHICH ARE THE SAME GRADE, SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING UNO.
13. TIE ALL REINFORCING STEEL AND EMBEDDED ITEMS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF THE REINFORCEMENT WITH SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.
14. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF ALL FOOTINGS, BEAMS AND WALLS.
15. PROVIDE CORNER OR CONNECTION JOINTS IN SLABS-ON-GRADE SPACED AT A MAXIMUM 12'-0" ON EACH DIRECTION AND WITH THE LENGTH BETWEEN CONTROL JOINTS NO GREATER THAN 1 1/4 TIMES THE WIDTH BETWEEN CONTROL JOINTS.
16. SAWCUT CONTROL JOINTS AS SOON AFTER PLACING AS POSSIBLE, WHEN CONCRETE WILL NOT TRAVEL, TEND, ABRASE OR OTHERWISE DAMAGE THE SURFACE AND BEFORE THE CONCRETE DEVELOPS RANDOM SHRINKAGE CRACKING. CURE CONCRETE IN ACCORDANCE WITH ACI 301. BEGIN CURING IMMEDIATELY AFTER PLACING TO LIMIT CRACKING PRIOR TO SAWCUTTING CONTROL JOINTS.
17. UNLESS NOTED OTHERWISE, AT BASEMENT WALLS AND RETAINING WALLS:
 - A. PROVIDE VERTICAL CONTROL JOINTS IN BASEMENT WALLS AND RETAINING WALLS WITH A MAXIMUM SPACING OF 15'-0" ON CENTER AND 3'4" DEEP V-CHAMFER ON BOTH FACES.
 - B. INTERRUPT HALF OF THE SPECIFIED HORIZONTAL REINFORCEMENT AT CONTROL JOINTS.
 - C. CENTER CHAMFER STRIPS BETWEEN VERTICAL REINFORCING BARS.
18. NON-STRUCTURAL EMBEDMENTS (CONDUIT, PIPES, SLEEVES, ETC.) WITHIN WALLS, BEAMS OR SLABS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL EMBEDMENTS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI STANDARDS, INCLUDING BUT NOT LIMITED TO:
 - A. ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
 - B. OVERALL OUTSIDE DIMENSION OF EMBEDMENTS SHALL NOT EXCEED 1/3 THE CONCRETE MEMBER THICKNESS UP TO 2" MAXIMUM.
 - C. FOR CONCRETE SLABS ON METAL DECK THE MEMBER THICKNESS SHALL BE THE CONTINUOUS SLAB THICKNESS ABOVE THE DECK.
 - D. EMBEDMENTS SHALL BE SPACED A MINIMUM OF 6" ON CENTER.
 - E. EMBEDMENTS WITHIN COLUMNS SHALL NOT DISPLACE MORE THAN 4% OF THE AREA OF THE COLUMN CROSS SECTION.
19. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE ALLOWED IN BEAMS OR JOISTS.
20. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPLICE REINFORCING BARS ONLY AS SHOWN OR APPROVED. STAGGER SPLICES WHERE POSSIBLE. USE CLASS "B" TENSION SPLICES UNO, INCLUDING DOWELS.
21. TEST CYLINDERS SHALL BE TAKEN TO THE LESSER OF THE FOLLOWING:
 - A. 75 CUBIC YARDS
 - B. 24 HOUR PERIOD
 - C. CHANGE IN CONCRETE STRENGTH
22. TEST CYLINDERS AT 7 DAYS AND 28 DAYS. SHOULD 28 DAY STRENGTH NOT BE MET, TEST REMAINING CYLINDERS AT 56 DAYS. TEST RESULTS SHALL BE FORWARDED TO THE STRUCTURAL EOR.
23. THE LOCATION OF CONSTRUCTION JOINTS REQUIRES THE APPROVAL OF THE STRUCTURAL EOR.
 - A. UNLESS NOTED OTHERWISE, THOROUGHLY ROUGHEN (BY MECHANICAL MEANS) AND CLEAN ALL CONSTRUCTION JOINTS.
 - B. PROVIDE KEYS IN BEAMS AT CONSTRUCTION JOINTS.
 - C. APPLY SLUSH COAT AS SPECIFIED.
24. PROVIDE THE FOLLOWING NOMINAL SIZE OF KEYS AT WALL CONSTRUCTION JOINTS UNO:
 - A. 8" THROUGH 10" WALL = 2" x 4" KEY
 - B. 12" THROUGH 14" WALL = 2" x 6" KEY
25. THE PLACEMENT OF ALL REINFORCING STEEL MUST BE REVIEWED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
 - A. ASH NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION
 - B. PROJECT SPECIFICATION MANUAL DIVISION 5 (WHEN PROVIDED).
26. PROVIDE COMPRESSIBLE FILLER AND SEALANT IN SLAB-ON-GRADE AND WALL AND CEILING AND INTERFACES ARE NOT DOWELED TOGETHER.
27. ALL COLUMN POCKETS SHALL BE FILLED WITH CONCRETE AFTER COLUMN IS ERECTED.
28. PROVIDE HIGH CONCRETE HOUSEKEEPING PADS UNDER EQUIPMENT. PADS SHALL EXTEND BEYOND EQUIPMENT 6" NOMINAL ON ALL SIDES. APPLY BONDING AGENT TO EXISTING CONCRETE SLAB PRIOR TO PLACING HOUSEKEEPING PAD. SEE DOCUMENTS FOR DETAILS.
29. AT FLOOR DRAINS, LOCALLY SLOPE FLOOR TOWARD DRAIN. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR DRAIN LOCATIONS.
30. UNO, IF STRUCTURAL SLAB EXPOSED TO WEATHER SHALL BE SLOPED APPROXIMATELY 1/4 INCH PER FOOT AWAY FROM OCCUPIED SPACE TOWARD FLOOR DRAINS, GUTTERS, ETC. FOR EXTERIOR NON-STRUCTURAL SLAB. SEE DOCUMENTS FOR DETAILS AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
31. SEE ARCHITECTURAL DOCUMENTS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, ETC. TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.

REINFORCED CONCRETE FINISHING:

1. THE FOLLOWING NOTES APPLY TO FINISHING FLOORS AND SLABS.
2. GENERAL, COMPLY WITH ACI 302.1R RECOMMENDATIONS FOR SCREEDING, FINISHING, TROWELING AND FINISHING OPERATIONS FOR CONCRETE SURFACES. DO NOT WET CONCRETE SURFACES.
3. FLOAT FINISH - APPLY FLAT FLOUT FINISH TO SURFACES TO RECEIVE TROWEL FINISH AND TO BE COVERED WITH TILE OR FLUID APPLIED OR SHEET WATERPROOFING.
4. TROWEL FINISH (AFTER APPLYING FLOAT FINISH).
5. APPLY A TROWEL FINISH TO SURFACES EXPOSED TO VIEW OR TO BE COVERED WITH RESILIENT FLOORING, CARPET, CERAMIC OR QUARRY TILE SET OVER A CLEAVAGE MEMBRANE, PAINT OR ANOTHER THIN FILM FINISH COATING SYSTEM.
6. FINISH SURFACES TO THE FOLLOWING TOLERANCES F(5) F(35) AND F(1) 25 SLAB-ON-GRADE.
 - A. FINISH SURFACES TO THE FOLLOWING TOLERANCES F(5) 25 ELLEVATED SLABS.
 - B. FINISH AND MEASURE SURFACE SO GAP AT ANY POINT BETWEEN CONCRETE SURFACE AND AN UNLEVELLED, FREESTANDING 10 FT LONG STRAIGHTEDGE OR TROWEL FINISH SHALL NOT EXCEED 1/8 INCH.
7. TROWEL AND FINE BROOM FINISH.
 - A. APPLY A TROWEL FINISH TO SURFACES WHERE CERAMIC OR QUARRY TILE IS TO BE INSTALLED BY EITHER THICKSET OR THIN-SET METHOD.
 - B. COMPLY WITH FLATNESS AND LEVELNESS TOLERANCES FOR TROWEL FINISHED FLOOR SURFACES.
 - C. APPLY A BROOM FINISH TO EXTERIOR CONCRETE PLATFORMS, STEPS, RAMPS AND ELSEWHERE WHERE SURFUPAGE IS A CONCERN.
8. COORDINATE REQUIRED FINAL FINISH WITH ARCHITECT BEFORE APPLICATION.
9. MEASURE FLOOR AND SLAB FLATNESS AND LEVELNESS ACCORDING TO ASTM E 1155 WITHIN 8 HOURS OF FINISHING.
10. REPAIR AND PATCH DEFECTIVE CONCRETE SURFACE AREAS WHEN APPROVED BY THE ARCHITECT OR STRUCTURAL EOR. REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO THE SATISFACTION OF THE ARCHITECT OR STRUCTURAL EOR.
11. LIMIT FORMWORK SURFACE IRREGULARITIES 1/8 INCH FOR EXPOSED SMOOTH-FORMED FINISHED SURFACES AND 1/4" FOR EXPOSED ROUGH-FORMED FINISHED SURFACES.

STEEL COMPOSITE FLOOR CONSTRUCTION:

- A. COMPOSITE FLOOR MEMBERS ARE DESIGNED TO BE UNSHORED. UNO.
- B. SHEAR STUD CONNECTORS SHALL BE AS SHOWN ON PLANS OR DETAILS AND SHALL BE WELDED DIRECTLY TO BEAM OR THRU METAL DECK. DO NOT WELD TO STRUCTURAL STEEL.
- C. SHEAR STUD CONNECTORS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE", SECTION 7 - STUD WELDING. STUD WELDS SHALL BE BY AUTOMATIC WELDING EQUIPMENT ONLY. HAND WELDING OF STUDS IS NOT ALLOWED. STUDS SHALL BE TYPE "B", HEADED STUDS HAVING A MINIMUM TENSILE STRENGTH OF 60 KSI AND SHALL BE OF THE CORREL 1/2" DIAMETER SHOWN IN THE ARCHITECTURAL DRAWINGS.
- D. SUBMIT SHOP DRAWINGS INDICATING SHEAR STUD LOCATIONS ON EACH BEAM.
- E. SHEAR STUD INSTALLATION SHALL BE TESTED BY THE TESTING INSPECTOR PER ACI 308.1.1.1. THE TESTING INSPECTOR SHALL BE NOTIFIED IN WRITING OF THE TESTING RESULTS.
- F. CONCRETE THICKNESS INDICATED ON PLAN IS NOMINAL. CONTRACTOR SHALL ALLOW FOR DEFLECTION OF THE FLOOR ASSEMBLY DUE TO THE WET WEIGHT OF THE CONCRETE.
- G. CONDUITS, SLEEVES AND PIPING SHALL NOT BE LOCATED WITHIN THE ELEVATED SLAB THICKNESS (NO CONDUIT IN SLAB).
- H. PLACEMENT OF CONCRETE ON THE COMPOSITE FLOOR SLAB IS PROHIBITED. IF CONSTRUCTION JOINT IS REQUIRED, LOCATION SHALL BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.
- I. WELD PATTERN: 3/64" (8) FASTENERS / SPAN, MAXIMUM 12" OC
- J. 2" COMPOSITE DECK WITH DESIGN THICKNESS 0.0358" (20 GA) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
 - A. 1/4" 0.418 IN-W/FT
 - B. h = 0.415 IN-W/FT
 - C. Sp = 0.355 IN-W/FT
 - D. Fy = 50 KSI
 - E. Fy = 50 KSI
- K. COMPOSITE FLOOR DECK SHALL BE BOLTED TO SUPPORTS, BOTH PERPENDICULAR AND PARALLEL TO DECK, WITH 3/4" AND 480 BOLT PIVOTLE WELDS AND FASTENED AT SIDEPLATES WITH #10 SCREWS AS FOLLOWS:
 - A. TYPICAL INSTALLATION, UNLESS NOTED OTHERWISE:
 - 1. WELD PATTERN: 3/64" (8) FASTENERS / SPAN, MAXIMUM 12" OC
 - 2. SIDEPLATE FASTENERS: (3) FASTENERS / SPAN, MAXIMUM 12" OC

STRUCTURAL MASONRY:

1. PROVIDE STRUCTURAL MASONRY CONFORMING TO THE FOLLOWING STANDARDS:
 - A. ACI 530 / ASCE 5 / TMS 402, BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES, LATEST EDITIONS.
 - B. ACI 530.1 / ASCE 6 / TMS 602, SPECIFICATIONS FOR CONCRETE MASONRY STRUCTURES, LATEST EDITIONS.
2. LOAD BEARING MASONRY WALLS ARE DESIGNED IN ACCORDANCE WITH CHAPTERS 1 AND 2 OF ACI 530.
3. PROVIDE HOLLOW, LOAD BEARING CONCRETE MASONRY UNITS (CMU) CONFORMING TO ASTM C 90 WITH A MINIMUM COMPRESSIVE STRENGTH OF MASONRY (F_m) OF 2,000 PSI AND A NET STRENGTH OF 2,000 PSI ON THE NET CROSS-SECTIONAL AREA OF CMU DETERMINED IN ACCORDANCE WITH ASTM C 140.
4. PROVIDE BRICK MASONRY UNITS CONSTRUCTED OF CLAY OR SHALE CONFORMING TO ASTM C 682.
5. PROVIDE MORTAR CONFORMING TO ASTM C 270, TYPE S. STANDARD MORTAR BED JOINT THICKNESS IS 3/8" AND MUST NOT VARY OUTSIDE OF THE RANGE BETWEEN 1/4" AND 1/2". DO NOT USE AIR ENTRAINED MORTAR.
6. PROVIDE GROUT FOR REINFORCED MASONRY CONFORMING TO ASTM C 476 WITH MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AND A MINIMUM SLUMP OF 10".
7. PROVIDE STEEL REINFORCEMENT IN MASONRY WALLS CONFORMING TO ASTM A615, GRADE 60.
8. PROVIDE MASONRY TIES AND ANCHORS OF THE TYPE AND SPACING AS DETAILED ON THE STRUCTURAL DRAWINGS AND IN CONFORMANCE WITH ASTM A82.
9. PROVIDE LADDER TYPE HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A901 IN ALL MASONRY WALLS. UNO, PLACE 3 GAGE ZINC COATED LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16" OC. LAP HORIZONTAL JOINT REINFORCING MINIMUM 12". USE PREFABRICATED L'S AND T'S AT CORNERS AND INTERSECTIONS.
10. LAY ALL MASONRY UNITS IN RUNNING BOND.
11. FOR GROUDED WALLS:
 - A. THE MAXIMUM HEIGHT OF GROUT LIFTS MUST NOT EXCEED 5'-4".
 - B. THE MAXIMUM UN-GROUTED HEIGHT OF 8" OR THICKER CMU WALLS PRIOR TO GROUTING MUST NOT EXCEED 12'-0".
 - C. REFER TO SECTION 17 OF ACI 530 FOR THE MAXIMUM UN-GROUTED HEIGHT OF CMU WALLS THINNER THAN 8".
 - D. CONSOLIDATE AND RECONSOLIDATE GROUT IN ACCORDANCE WITH PARAGRAPH 5.5.5 OF ACI 530.
 - E. ALL GROUT POURS HIGHER THAN 5'-0" MUST HAVE INSPECTION HOLES AT THE BASE OF THE WALL.
12. REINFORCEMENT:
 - A. DETAIL REINFORCEMENT IN LOAD BEARING CMU WALLS IN ELEVATION ON SHOP DRAWINGS.
 - B. LAP VERTICAL MASONRY WALL REINFORCING AS SHOWN IN THE MASONRY LAP LENGTH SCHEDULE AND PROVIDE MINIMUM BAR SPLICE LENGTH.
13. PROVIDE VERTICAL CONTROL JOINTS IN ALL MASONRY WALLS NOT RETAINING EARTH. UNO, ON THE ARCHITECTURAL DRAWINGS, PLACE VERTICAL CONTROL JOINTS AT THREE TIMES THE WALL STORY HEIGHT, BUT NOT CLOSER THAN 25'-0" ON CENTER OR FARTHER THAN 40'-0" ON CENTER.
14. UNO, PROVIDE MINIMUM (1) RE VERTICAL BAR, GROUDED FULL STORY HEIGHT, AT EACH SIDE OF OPENINGS AND AT ALL CORNERS AND ENDS OF WALLS, INCLUDING BOTH SIDES AT ENDS OF WALL PANELS AT VERTICAL CONTROL JOINTS.
15. UNO, ANCHOR SIDES AND TOPS OF MASONRY WALL PANELS TO THE STRUCTURE BY DOVETAIL ANCHORS, METAL STRAPS OR EQUIVALENT.
16. PLACE CONNECTORS FOR MASONRY VENEERS AT NOT MORE THAN 16" ON CENTER VERTICALLY OR 24" ON CENTER HORIZONTALLY.
17. PROVIDE A CONTINUOUS BOND BEAM AT THE TOP OF ALL MASONRY WALLS. UNO REINFORCE BOND BEAMS WITH (2) #4 CONTINUOUS REINFORCING BARS.
18. PROVIDE LEVEL BOND BEAMS AS DESCRIBED IN TABLE 4 OF ACI 530.1 / ASCE 6 / TMS 602, LATEST EDITIONS.
19. SAMPLE AND TEST GROUT IN ACCORDANCE WITH ARTICLES 1.4 B AND 1.6 OF ACI 530.1 / ASCE 6 / TMS 602, LATEST EDITIONS.

COLD FORMED METAL FRAMING:

1. PROVIDE COLD-FORMED METAL FRAMING CONFORMING WITH THE FOLLOWING STANDARDS:
 - A. ASI NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION
 - B. PROJECT SPECIFICATION MANUAL DIVISION 5 (WHEN PROVIDED).
2. PROVIDE CURVED METAL FRAMING TO ACCOMMODATE VERTICAL DISPLACEMENT OF THE PRIMARY STRUCTURE.
3. VERIFY DIMENSIONS OF LOAD BEARING WALLS WITH THE ARCHITECTURAL DRAWINGS. FOR INTERFACES ON NON-LOAD BEARING METAL STUDS SEE ARCHITECTURAL DRAWINGS.
4. SPECIFICATION BREAK:- THE FOLLOWING NOTES SHALL APPLY WHEN A PROJECT SPECIFICATION MANUAL HAS NOT BEEN PROVIDED:
 - A. DESIGN SLIP TRACK USING THE GUIDELINES ESTABLISHED IN STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) TECHNICAL GUIDE.
 - B. PROVIDE STUDS, RUNNER TRACK AND ASSOCIATED ACCESSORIES OF THE TYPE AND THICKNESS INDICATED ON THE DRAWINGS.
 - C. PROVIDE STUDS, JOISTS, RUNNER TRACK AND ACCESSORIES MANUFACTURED OF HOT DIP GALVANIZED ASTM A 1003 STEEL WITH THE FOLLOWING YIELD STRENGTH:
 - a. 33,000 PSI + 4.3 MIL (18 GAGE) MEMBERS AND THINNER
 - b. 50,000 PSI + 5.4 MIL (16 GAGE), 68-MIL (14 GAGE), AND 87-MIL (12 GAGE) MEMBERS
5. SUBMIT SHOP DRAWINGS SHOWING THE SIZE OF ALL MEMBERS AND ALL CONNECTIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED. SEALED DESIGN NOT REQUIRED IF FINAL DESIGN HAS BEEN PROVIDED AND SHOWN ON THE STRUCTURAL DRAWINGS.
 - A. REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD IS FOR:
 - 1. GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS
 - 2. REGARDING ARRANGEMENT AND SIZES OF MEMBERS
 - 3. THE DESIGNER'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS.
6. MINIMUM CONNECTIONS (UNO ON THE DRAWINGS):
 - A. STUD TO STUD CONNECTIONS: A MINIMUM OF (2) 10 - 16 SELF TAPPING SCREWS.
 - B. STUD TO TRACK CONNECTIONS: (2) 10 - 16 SELF TAPPING SCREWS.
 - C. TRACK ON CONDUIT OR CONDUIT BEARING METAL STUDS: (2) 10 - 16 SELF TAPPING SCREWS.
 - D. MULTIPLE STUD JOISTS: #10 SCREWS AT 12" OC PENETRATING EACH MEMBER.
 - E. STUD TO WALL SHEATHING: 1/2" x 1 5/8" BUGLE HEAD #6 SELF DRILLING SCREWS AT 8" OC AT EDGES AND 12" OC IN FIELD.
 - F. STUD TO ARCHITECTURAL FINISH: 1/2" x 1 5/8" BUGLE HEAD #6 SELF DRILLING TYPE.
 - G. STUD TO STRUCTURAL STEEL: AS SHOWN ON SECTIONS.
7. PROVIDE BRIDGING AND BRACING PER STUD MANUFACTURERS RECOMMENDATIONS.
8. REINFORCE EXTERIOR STUDS THAT ARE CUT TO INSTALL MECHANICAL OR ELECTR

GENERAL

A. PRE-CONSTRUCTION DUTIES OF THE CONTRACTOR

1. ABRASION FOR AN ANCHOR MANUFACTURER REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED.

2. PROVIDE THE STRUCTURAL EOR DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

3. INSTALL FIRST INSTALLED ANCHOR PRIOR TO INSTALLING POST-INSTALLED ANCHORS.

4. ANCHOR MOVEMENTS SHALL BE MONITORED PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR REPLACED CAST-IN-PLACE ANCHORS.

5. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROTECTIVE COVER. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS OR INDICATED IN THE MANUFACTURER'S LITERATURE.

6. EXISTING REINFORCING BARS AND OTHER EMBEDDED MATERIAL CONTAINED IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCALS.

7. CONTRACTOR TO REVIEW THE EXISTING STRUCTURAL DRAWINGS AND UNDERTAKE TO LOCATE THE POSITION OF MATERIAL EMBEDDED IN THE CONCRETE AT ALL LOCATIONS WHERE ANCHORS ARE TO BE INSTALLED BY FERROCON, GPR, X-RAY, CHIPPING OR OTHER MEANS UNLESS IT IS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT.

8. ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE DATA WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI) IN CONJUNCTION WITH EDGE DISTANCE, SPACING AND EMBEDMENT DEPTH AS SPECIFIED ON THE DRAWINGS.

9. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSILE LOADS SHALL BE DONE BY A REGISTERED PROFESSIONAL ENGINEER.

10. CALCULATIONS FOR THE DESIGN OF ANCHORS SHALL BE DONE BY A REGISTERED PROFESSIONAL ENGINEER.

11. CALCULATIONS FOR THE DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE (ANCHOR STANDARDS) AS REQUIRED BY THE BUILDING CODE.

12. INCLUDE CONSIDERATION OF CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE EFFECTS.

13. EVALUATION OF SUBSTITUTIONS WILL BE BASED ON THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE REQUIREMENTS, LOAD RATES, LOAD RATES, LOAD RATES, LOAD RATES AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS.

14. UNLESS NOTED OTHERWISE, THREADED RODS USED WITH ADHESIVES SHALL BE CONTINUOUSLY THREADED THROUGHOUT THE ENTIRE LENGTH OF THE RODS SHALL BE CLEANED OF ALL MATERIAL THAT WILL INHIBIT BOND BETWEEN ROD AND ADHESIVE.

15. CONTRACTOR SHALL MAINTAIN A MINIMUM AGE OF 21 DAYS PRIOR TO INSTALLATION OF ADHESIVE ANCHORS.

CONCRETE ANCHORS

A. MEDIUM DUTY MECHANICAL AND SCREW ANCHORS FOR USE IN CRACKED AND UN-CRACKED CONCRETE THAT HAVE BEEN TESTED AND QUALIFIED FOR CALCULATED LOADS IN ACCORDANCE WITH ICC-ES ESR-1935, PRE-APPROVED MECHANICAL AND SCREW ANCHORS INCLUDE:

1. HILTI "Kwik Bolt-T2Z" Expansion Anchor (ICC-ES ESR-4286)

2. HILTI "Kwik-Hus-Z" and "Kwik-Hus E2-Z" Screw Anchor (ICC-ES ESR-3027)

3. SIMPSON STRONG-TIE "STRONG-BOLT Z" Expansion Anchor (ICC-ES ESR-4287)

4. SIMPSON STRONG-TIE "TITEN-BOLT" Screw Anchor (ICC-ES ESR-2713)

5. DEWALT "POWER-STEAD-SDZ" Expansion Anchor (ICC-ES ESR-2502)

6. DEWALT "POWER-STEAD-SDZ" Expansion Anchor (ICC-ES ESR-3260)

B. HEAVY DUTY MECHANICAL ANCHORS FOR CRACKED AND UN-CRACKED CONCRETE USE:

1. HILTI "HSL-Z" UNDERCUT ANCHOR (ICC-ES ESR-1546)

2. HILTI "HSL-Z" Expansion Anchor (ICC-ES ESR-1545)

3. DEWALT "CCU" UNDERCUT ANCHOR (ICC-ES ESR-4810)

4. DEWALT "POWER-STEAD-SDZ" Expansion Anchor (ICC-ES ESR-3260)

C. ADHESIVE ANCHORS FOR USE IN CRACKED AND UN-CRACKED CONCRETE THAT HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH THE FOLLOWING:

1. HILTI "HIT-HY 200 V3" ADHESIVE WITH HILTI "HIT-Z" ROD (ICC-ES ESR-4688)

2. HILTI "HIT-HY 200 V3" ADHESIVE WITH HILTI "HIT-Z" ROD (ICC-ES ESR-3814)

3. DEWALT "PURE200" ADHESIVE (ICC-ES ESR-6144)

4. DEWALT "AC208" ADHESIVE (ICC-ES ESR-4027)

C. MASONRY ANCHORS

A. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY

1. MECHANICAL AND CONCRETE SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC-106 OR AC106, RESPECTIVELY. PRE-APPROVED MECHANICAL AND CONCRETE SCREW ANCHORS INCLUDE:

2. ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH THE FOLLOWING:

B. ANCHORAGE TO HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY

1. SCREW ANCHORS FOR USE IN HOLLOW CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106.

2. PYTHON MT SCREW ANCHORS. SEE STRUCTURAL DETAILS.

3. ADHESIVE ANCHORS FOR USE IN HOLLOW CONCRETE MASONRY SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC88 OR AC80, AS APPROPRIATE. USE OF THE APPROPRIATE SCREEN TUBE AS RECOMMENDED BY THE ADHESIVE MANUFACTURER.

EFFECTIVE WIND AREA (FT²)	2024 NCBC: LOCATION PER				
	1	2	3	4	5
<10	16.0	16.0	16.0	22.1	22.1
	-24.2	-40.6	-61.1	-22.0	-29.5
50	16.0	16.0	16.0	20.0	20.0
	-22.7	-30.5	-36.7	-21.7	-25.0
>100	16.0	16.0	16.0	19.0	19.0
	-22.1	-26.2	-26.2	-19.7	-21.0
>500	16.0	16.0	16.0	16.6	16.6
	-22.0	-25.5	-25.5	-18.4	-18.4

1. ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER AND THE DESIGNER OR THE MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND LOADS AS DETERMINED PER THE FOLLOWING BUILDING DESIGN CATEGORY, CLIMATE DESIGN WIND SPEED AND EXPOSURE CATEGORY LISTED IN THE DESIGN LOADS CATEGORY. ALTERNATIVELY, THE COMPONENT MANUFACTURER MAY BE THE LARGER OF THE 16 PSF MINIMUM (PER ASCE/SEI 3.0.2.2) AND THE WIND-CASE PRESSURES (PSF) TABULATED IN THE TAB. A.1.
2. FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD SHALL BE TAKEN FROM THE NEXT LOWEST TABULATED EFFECTIVE AREA.
3. POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARDS BUILDING OR COMPONENT FACE. NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING OR COMPONENT FACE.
4. EACH COMPONENT AND ITS CONNECTION SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
5. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.
6. $s = 4'$ - SEE ROOF PLAN MAP FOR LOCATION OF a -ZONES $w = 4'$ - SEE LOCATION MAPS TO MATCH ROOF a -ZONES.

APPLICATION	EXPOSURE	28-DAY COMPRESSIVE STRENGTH, F _c	MAXIMUM W/C	AIR CONTENT	NOMINAL MAXIMUM AGGREGATE SIZE (NOTE 4)	MAXIMUM CONCRETE WEIGHT (+/- 3 PCF)
FOOTINGS	F0	3000 PSI	0.55	SEE NOTE 3	1"	150 PCF
BUILDING WALLS/ PEDESTALS	F1	4500 PSI	0.45	5.0% +/- 1.5%	3/4"	150 PCF
ABS-ON-GRADE (INTERIOR)	F0	4000 PSI	0.50	SEE NOTE 3	3/4"	150 PCF
RIOR SLABS-ON-GRADE METAL PAN STAIRS	F2	4500 PSI	0.45	6.0% +/- 1.5%	3/4"	150 PCF
TERIOR METAL PAN STAIRS	F0	3000 PSI	0.55	SEE NOTE 3	3/4"	150 PCF
RIOR SUSPENDED LWC SLABS	F0	4000 PSI	SEE NOTE 2	SEE NOTE 3	3/4"	115 PCF
TERIOR RETAINING WALLS	F2	4500 PSI	0.45	6.0% +/- 1.5%	3/4"	150 PCF

1. EXPOSURE CATEGORIES AND CLASSES FOR SULFATES, PERMEABILITY, AND CORROSION PROTECTION OF REINFORCEMENT IS CLASS ZERO UNLESS NOTED OTHERWISE.

2. WHERE A MAXIMUM WATER/CEMENT RATIO IS NOTED FOR DURABILITY, PROPORTIONING OF WATER/CEMENT RATIO SHALL BE AS REQUIRED FOR SPECIFIED CONCRETE MIX DESIGN - WATER/CEMENT RATIO IS NOT APPLICABLE FOR DURABILITY REQUIREMENTS IN LIGHTWEIGHT CONCRETE.

3. WHERE AIR MIXTURE IS NOT REQUIRED BY DESIGN, THE CONTRACTOR, INSTALLER, AND SUPPLIER MAY CHOOSE TO INCLUDE AIR ENTRAINMENT TO IMPROVE PLACEMENT AND FINISHING CHARACTERISTICS, AIR ENTRAINMENT IS NOT PERMITTED IN NORMALWEIGHT CONCRETE TO RECEIVE A HARD TROWEL FINISH AND TO PROVIDE SUCH SURFACE FINISHES. IF AIR ENTRAINMENT IS REQUIRED TO MEET FIRE RATING REQUIREMENTS, SLABS SHALL BE PROPERLY FINISHED TO AVOID SURFACE IMPERFECTIONS, SUCH AS BLISTERING OR DELAMINATION.

4. COURSE AGGREGATE SHALL BE ASTM C-3 GRADED - SELECT GRADING CLASS TYPE OF STRUCTURE OR LOCATION USED; AND IN RELATION TO SECTION 04400, PART 1, SUBPART 1, ITEM 1.06, "CONCRETE," THE FOLLOWING SHALL APPLY: ALL COURSE AGGREGATE SHALL BE WASHED, # 57 GRADING SHALL BE USED FOR CONCRETE WITH 1 INCH MAXIMUM, A WELL-BLENDED MIX OF #4, #57 AND #89 (1 1/2") TO 3/8" NOMINAL SIZE) SHALL BE USED FOR CONCRETE WITH 1 1/2 INCH MAXIMUM. IT IS ACCEPTABLE TO USE A DIFFERENT BLEND OF COURSE AGGREGATES WITH 1 1/2" MAXIMUM, PROVIDED A MIX DESIGN IS SUBMITTED WITH A COARSENESS FACTOR CHART SHOWING THE BLEND FALLS WITHIN THE "OPTIMAL" AREA OF THE CHART. REFER TO ACI 302 - CHAPTER 8.

- BEAM SIZE
 - NUMBER OF SHEAR STUDS
 - CAMBER (0° IF NOT SHOWN)

- TOP OF STEEL RELATIVE TO FFE
 (EQUALS SLAB THICKNESS IF NOT SHOWN)

- END SHEAR REACTION

FTG
STEP

SLOPE
DN

SLOPE DIRECTION

Diagram illustrating the dimensions and components of a wall footing:

- WF2**: Wall Footing Size (indicated by a dashed line).
- WF12X65**: Wall Footing Size (indicated by a dashed line).
- 18in**: Pier Size (indicated by a dashed line).
- P1**: Pier Size (indicated by a dashed line).
- F6**: Footing Size (indicated by a dashed line).
- WALL FOOTING SIZE**: Wall Footing Size (indicated by a dashed line).
- PIER SIZE**: Pier Size (indicated by a dashed line).
- FOOTING SIZE**: Footing Size (indicated by a dashed line).
- BASEPLATE SIZE**: Baseplate Size (indicated by a dashed line).
- COLUMN SIZE**: Column Size (indicated by a dashed line).

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AND	JBE	JOIST BEARING ELEVATION
AT	JST	JOIST
@	JT	JOINT
X°		
°	K	KIP (THOUSAND POUNDS)
Ø	KSI	KIPS PER SQUARE INCH
#		
NUMBER/POUND		
ACI		AMERICAN CONCRETE INSTITUTE
AESS		ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AFB	LAT	LATERAL
AHJ	LBS	POUNDS
AHU	LF	LATERAL FRAME
AISC	LFT	LINEAR FOOT
ALC	LG	LONG
ALT	LL	LIVE LOAD
ALTERNATE	LLH	LONG LEG HORIZONTAL
ANCHOR	LLV	LONG LEG VERTICAL
APPROX	LOW	LOW
APPROXIMATE	LRFD	LOAD RESISTANCE FACTOR DESIGN
ARCHITECTURAL PRECAST VENEER	LHS	LONG HORIZONTAL SLOT
ARCHITECTURAL	LSH	LONG HORIZONTAL SLOPE
ASCE	LSV	LONG SIDE VERTICAL
ASD	LVL	LAMINATED VENEER LUMBER
ASTM	LVS	LONG VERTICAL SLOT
AWPA		
AWS	MANUF	MANUFACTURER
	MAS	MASONRY
	MAX	MAXIMUM
	MECH	MECHANICAL
	MEP	MECHANICAL, ELECTRICAL, PLUMBING
	MEZZ	MEZZANINE
	MFR	MANUFACTURER
	MD	MIDDLE
	MILS	THOUSANDTH OF AN INCH
	MIN	MINIMUM
	MISC	MISCELLANEOUS
	ML	MASONRY LINTEL
	MO	MASONRY OPENING
	MOM	MOMENT
	MTL	METAL
	MW	MASONRY WALL
	NA	NOT APPLICABLE
CANT	NIC	NOT IN CONTRACT
CC	NOM	NOMINAL
CFMF	NS	NEAR SIDE
CFS	NTS	NOT TO SCALE
CIP	OAE	OR APPROVED EQUAL
CL	OC	ON CENTER
CENTERLINE	OD	OUTSIDE DIAMETER
CLG	OH	OPPOSITE HAND
CEILING	OIO	OUT TO OUT
CLR	OPNG	OPENING
CLER	OPP	OPPOSITE
CMU	OSF	OUTSIDE FACE
COLUMN	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CONC		
CONCRETE	PAF	POWDER ACTUATED FASTENERS
CONNX	PAC	PRECAST
CONSTR	PCF	POUNDS PER CUBIC FOOT
COORD	PED	PEDESTAL
COORDINATE	PEMB	PRE-ENGINEERED METAL BUILDING
CNR	PERP	PERPENDICULAR
CRSI	PL	PLATE
CWI	PLYWD	PLYWOOD
CECK BEARING ELEVATION	PREFAB	PREFABRICATED
DBL	PROJ	PROJECTION
DOUBLE	PSF	POUND PER SQUARE FOOT
DEMOLITION	PSP	POUND PER SQUARE INCH
DIA	PT	POINT
DIAGONAL	RD	RADIUS
DIAPHRAGM	REBAR	REINFORCING BAR
DM	REF	REFERENCE
DIMENSION	REINF	REINFORCING/REINFORCED
DL	REQD	REQUIRED
DOWN	RECT	RECTANGULAR
DT	RTU	ROOF TOP UNIT
DOUBLE TEE - PRECAST	RXN	REACTION
DTL		
DETAL	SCHED	SCHEDULE
DWL	SECT	SECTION
DWG	SH	SHEET/SHEDTING
	SH	SIMILAR
	SI	SAWN JOINT
	SL	SLOPE
	SOC	SLAB ON GRADE
	SPA	SPACES/SPACING
	SPEC	SPECIFICATION
	SO	SQUARE
	SS	STAINLESS STEEL
	STD	STANDARD
	STIFF	STIFFENED
	STL	STEEL
	STRUC	STRUCTURAL
	SUSP	SUSPENDED
	SW	SHEAR WALL
	SYM	SYMMETRICAL
	T&B	TOP AND BOTTOM
	T&G	TONGUE & GROOVE
	TEX	TOP OF EXTENSION
	TESS	TEMPORARY EXCAVATION SHORING SYSTEM
	THK	THICK/THICKNESS
	THD	THREAD
	TI	TOP OF
	TMS	THE MASONRY SOCIETY
	TR	TREAD
	TS	TUBE STEEL
	TD	TURN DOWN
	TYP	TYPICAL
	UN	UNLESS NOTED OTHERWISE
	UNSCHED	UNUSUAL
	UT	UTILITIES
	VBF	VERTICAL BRACED FRAME
	VERT	VERTICAL
	VY	VERIFY IN FIELD
	VX	HORIZONTAL SHEAR FORCE
	VY	VERTICAL SHEAR FORCE
	W/	WITH
	WD	WOOD
	WFO	WIDE FLANGE
	WO	WITHOUT
	WP	WORK POINT
	WT	WEIGHT
	WT	WATER TAIL
	WWR	WELDED WIRE REINFORCEMENT
	WS	WATERSTOP
	XB	X-BRACING
IBC		INTERNATIONAL BUILDING CODE
ID		INSIDE DIAMETER
IN		INCH
INT		INTERIOR
INV		INVERT/INVERTED
ISF		INSIDE FACE

	APPLICABLE TO PROJECT	SCHEDULE OF SPECIAL INSPECTION SERVICES			AGENT	
		MATERIAL / ACTIVITY	SERVICE	EXTENT		
D		1705.1 GENERAL				
		1705.1.1 SPECIAL CASES				
	☐	1. WORK UNUSUAL IN NATURE, INCLUDING BUT NOT LIMITED TO ALTERNATIVE MATERIALS/SYSTEMS, UNUSUAL DESIGN APPLICATIONS, MATERIALS/SYSTEMS WITH SPECIAL MANUFACTURER'S REQUIREMENTS	SUBMITTAL REVIEW, SHOP AND/OR FIELD INSPECTION	PERIODIC		
		1705.1.2 ELEMENTS ALWAYS REQUIRING SPECIAL INSPECTIONS				
	☐	1. THE FOLLOWING ELEMENTS REQUIRE SPECIAL INSPECTIONS EVEN FOR BUILDINGS AND STRUCTURES THAT ARE OTHERWISE EXEMPT FROM SPECIAL INSPECTION REQUIREMENTS A. PILES, PIERS, OR SPECIAL FOUNDATIONS	PER NBC 1705.7, 1705.8, 1705.9, 1810.3.5.2.4, 1810.3.5.2.5 PER 1705.1.5	AS NOTED		
	NOTE 6	B. SPRAVED FIRE-RESISTANT MATERIALS		AS NOTED		
	NOTE 6	C. MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	PER 1705.16	AS NOTED		
	NOTE 6	D. SMOKE CONTROL AND SMOKE EXHAUST SYSTEMS	PER 1705.19	AS NOTED		
	☒	E. RETAINING WALLS AND RETAINING SYSTEMS EXCEEDING 5 FEET OF UNBALANCED BACKFILL HEIGHT	PER 1705.3	AS NOTED		
		1705.2 STEEL CONSTRUCTION				
		1705.2.1 STRUCTURAL STEEL				
	☒	1. FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360, SECTION N 3.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	SUBMITTAL REVIEW	EACH SUBMITTAL		
	☒	2. MATERIAL VERIFICATION OF STRUCTURAL STEEL	SHOP ¹ AND FIELD INSPECTION	PERIODIC		
	C		3. STRUCTURAL STEEL WELDING:			
		☒	A. INSPECTION TASKS PRIOR TO WELDING (OBSERVE OR PERFORM QA TASKS IN ACCORDANCE WITH AISC 360 TABLE N5-4.1 FOR EACH WELDED JOINT OR MEMBER)	SHOP ¹ AND FIELD INSPECTION	OBSERVE OR PERFORM AS NOTED ¹	
☒		B. INSPECTION TASKS DURING WELDING (OBSERVE OR PERFORM QA TASKS IN ACCORDANCE WITH AISC 360 TABLE N5-4.2 FOR EACH WELDED JOINT OR MEMBER)	SHOP ¹ AND FIELD INSPECTION	OBSERVE ¹		
☒		C. INSPECTION TASKS AFTER WELDING (OBSERVE OR PERFORM QA TASKS IN ACCORDANCE WITH AISC 360 TABLE N5-4.3 FOR EACH WELDED JOINT OR MEMBER)	SHOP ¹ AND FIELD INSPECTION	OBSERVE OR PERFORM AS NOTED ¹		
☒		D. NONDESTRUCTIVE TESTING (NOT) OF WELDED JOINTS				
☒		1. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV	SHOP ¹ AND FIELD UT - 100%	PERIODIC		
☐		2. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II	SHOP ¹ AND FIELD UT - 10% MIN	PERIODIC		
☐		3. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1	SHOP ¹ AND FIELD UT OR RADIOGRAPHIC	PERIODIC		
☒		4. FABRICATOR'S NOT REPORTS WHEN FABRICATOR PERFORMS NOT	VERIFY REPORTS	EACH REPORT		
☒		4. STRUCTURAL STEEL TIGHTENING:				
☒		A. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE OR PERFORM QA TASKS IN ACCORDANCE WITH AISC 360 TABLE N5-6.1 FOR EACH BOLTED JOINT OR MEMBER)	SHOP ¹ AND FIELD INSPECTION	OBSERVE OR PERFORM AS NOTED ¹		
☒		B. INSPECTION TASKS DURING BOLTING (OBSERVE OR PERFORM QA TASKS IN ACCORDANCE WITH AISC 360 TABLE N5-6.2 FOR EACH BOLTED JOINT OR MEMBER)	SHOP ¹ AND FIELD INSPECTION	OBSERVE ¹		
☒		C. INSPECTION TASKS AFTER BOLTING (OBSERVE OR PERFORM QA TASKS IN ACCORDANCE WITH AISC 360 TABLE N5-6.1 FOR EACH BOLTED JOINT OR MEMBER)	SHOP ¹ AND FIELD INSPECTION	PERFORM ¹		
☒		5. VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS/SURROUNDED	SHOP ¹ OR FIELD INSPECTION	PERIODIC		
☒		6. EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT, SEE 1705.3 FOR ANCHORS)	FIELD INSPECTION	PERIODIC		
☒		7. VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS	FIELD INSPECTION	PERIODIC		
		1705.2.2 COLD-FORMED STEEL DECK				
☒		1. MANUFACTURER DOCUMENTS - VERIFY REPORTS AND CERTIFICATES AS LISTED IN SDI QA/CQ, SECTION 2, PARAGRAPHS 2.1 AND 2.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS	SUBMITTAL REVIEW	EACH SUBMITTAL		
☒		2. MATERIAL VERIFICATION OF STEEL DECK, MECHANICAL FASTENERS, AND WELDING MATERIALS	SHOP ¹ AND FIELD INSPECTION	PERIODIC		
☒		3. COLD-FORMED STEEL DECK PLACEMENT:				
☒		A. INSPECTION TASKS PRIOR TO DECK PLACEMENT PER SDI QA/CQ, APPENDIX 1, TABLE 1.1	SHOP ¹ AND FIELD INSPECTION	PERFORM ¹		
☒		B. INSPECTION TASKS AFTER DECK PLACEMENT PER SDI QA/CQ, APPENDIX 1, TABLE 1.2	SHOP ¹ AND FIELD INSPECTION	PERFORM ¹		
☒		4. COLD-FORMED STEEL DECK WELDING:				
☒		A. INSPECTION TASKS PRIOR TO WELDING PER SDI QA/CQ, APPENDIX 1, TABLE 1.3	SHOP ¹ AND FIELD INSPECTION	OBSERVE ¹		
☒		B. INSPECTION TASKS DURING WELDING PER SDI QA/CQ, APPENDIX 1, TABLE 1.4	SHOP ¹ AND FIELD INSPECTION	OBSERVE ¹		
☒	C. INSPECTION TASKS AFTER WELDING PER SDI QA/CQ, APPENDIX 1, TABLE 1.5	SHOP ¹ AND FIELD INSPECTION	PERFORM ¹			
☒	5. COLD-FORMED STEEL DECK MECHANICAL FASTENING:					
☒	A. INSPECTION TASKS PRIOR TO MECHANICAL FASTENING PER SDI QA/CQ, APPENDIX 1, TABLE 1.6	SHOP ¹ AND FIELD INSPECTION	OBSERVE ¹			
☒	B. INSPECTION TASKS DURING MECHANICAL FASTENING PER SDI QA/CQ, APPENDIX 1, TABLE 1.7	SHOP ¹ AND FIELD INSPECTION	OBSERVE ¹			
☒	C. INSPECTION TASKS AFTER MECHANICAL FASTENING PER SDI QA/CQ, APPENDIX 1, TABLE 1.8	SHOP ¹ AND FIELD INSPECTION	PERFORM ¹			
B		1705.2.3 OPEN-WEB STEEL JOISTS AND JOIST GIRDERS				
	☐	1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS				
	☐	A. END CONNECTIONS - WELDING OR BOLTED	PER SJI/CJ OR SJI 100	PERIODIC		
	☐	B. BRIDGING - HORIZONTAL OR DIAGONAL				
	☐	1. STANDARD BRIDGING	PER SJI/CJ OR SJI 100	PERIODIC		
	☐	2. BRIDGING THAT DIFFERS FROM SJI SPECIFICATIONS LISTED IN SJI/CJ OR SJI 100		PERIODIC		
		1705.2.4 COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER				
	☐	1. VERIFY TEMPORARY AND PERMANENT RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE	FIELD INSPECTION	PERIODIC		
		1705.3 CONCRETE CONSTRUCTION				
	☒	1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VEGETATION PLACEMENT	SHOP ¹ AND FIELD INSPECTION	PERIODIC		
☒	2. REINFORCING BAR WELDING:					
☐	A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	SHOP ¹ AND FIELD INSPECTION	PERIODIC			
☐	B. INSPECT SINGLE-PASS FILLET WELDS UP TO 5/16"	SHOP ¹ AND FIELD INSPECTION	PERIODIC			
☐	C. INSPECT ALL OTHER WELDS	SHOP ¹ AND FIELD INSPECTION	CONTINUOUS			
☒	3. INSPECT ANCHORS CAST IN CONCRETE	SHOP ¹ AND FIELD INSPECTION	PERIODIC			
☒	4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS					
☒	A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	FIELD INSPECTION	CONTINUOUS			
☒	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.4	FIELD INSPECTION	PERIODIC			
☒	5. VERIFY USE OF REQUIRED DESIGN MIX	SHOP ¹ AND FIELD INSPECTION	PERIODIC			
☒	6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	SHOP ¹ AND FIELD INSPECTION	CONTINUOUS			
☒	7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	SHOP ¹ AND FIELD INSPECTION	CONTINUOUS			
☒	8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	SHOP ¹ AND FIELD INSPECTION	PERIODIC			
☒	9. INSPECT PRESTRESSED CONCRETE FOR:					
☐	A. APPLICATION OF PRESTRESSING FORCES	SHOP ¹ AND FIELD INSPECTION	CONTINUOUS			
☐	B. GROUTING OF BONDED PRESTRESSING TENDONS	SHOP ¹ AND FIELD INSPECTION	CONTINUOUS			
A	☐	10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	FIELD INSPECTION	PERIODIC		
	☐	11. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLAB	REVIEW OF LABORATORY REPORTS	PERIODIC		
	☒	12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING CAST	FIELD INSPECTION	PERIODIC		

SCHEDULE OF SPECIAL INSPECTION SERVICES				
APPLICABLE TO PROJECT	MATERIAL / ACTIVITY	SERVICE	EXTENT	AGENT
	1705.4 MASONRY CONSTRUCTION			
	MINIMUM VERIFICATION AND TESTING REQUIREMENTS			
	1. REQUIREMENTS FOR QUALITY ASSURANCE LEVELS A, B, AND C			
☐	A. PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS	SUBMITTAL REVIEW	EACH SUBMITTAL	
	2. REQUIREMENTS FOR QUALITY ASSURANCE LEVELS B AND C ONLY			
☐	A. PRIOR TO CONSTRUCTION, VERIFICATION OF FM AND FAAC EXCEPT WHERE SPECIFICALLY EXEMPTED BY CODE	UNIT STRENGTH OR PRISM TEST METHOD	AS REQUIRED	
☐	B. DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO PROJECT SITE	UNIT STRENGTH OR PRISM TEST METHOD	PERIODIC	
	3. REQUIREMENTS FOR QUALITY ASSURANCE LEVEL C ONLY			
☐	A. DURING CONSTRUCTION, VERIFICATION OF FM AND FAAC FOR EVERY 5000 SQ FT	UNIT STRENGTH OR PRISM TEST METHOD	PERIODIC	
☐	B. DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DECLERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT	FIELD INSPECTION	PERIODIC	
	MINIMUM SPECIAL INSPECTIONS REQUIREMENTS			
	1. REQUIREMENTS FOR QUALITY ASSURANCE LEVELS B AND C ONLY			
☐	A. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
☐	a. PROPORTIONS OF SITE-PREPARED MORTAR	FIELD INSPECTION	PERIODIC	
☐	b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	FIELD INSPECTION	PERIODIC	
☐	c. GRADE, TYPE, AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	FIELD INSPECTION	PERIODIC	
☐	d. PRESTRESSING TECHNIQUE	FIELD INSPECTION	PERIODIC	
☐	e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY			
☐	• FOR THE FIRST 5,000 SQ FT	FIELD INSPECTION	CONTINUOUS	
☐	• AFTER THE FIRST 5,000 SQ FT	FIELD INSPECTION	LEVEL B - PERIODIC; LEVEL C - CONTINUOUS	
☐	f. SAMPLE PANEL CONSTRUCTION	FIELD INSPECTION	LEVEL 2 - PERIODIC; LEVEL 3 - CONTINUOUS	
	B. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
☐	a. GROUT SPACE	FIELD INSPECTION	LEVEL B - PERIODIC; LEVEL C - CONTINUOUS	
☐	b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	FIELD INSPECTION	PERIODIC	
☐	c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	FIELD INSPECTION	LEVEL B - PERIODIC; LEVEL C - CONTINUOUS	
☐	d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING MORTAR FOR PRECASTED TENDONS	FIELD INSPECTION	PERIODIC	
	C. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:			
☐	a. MATERIALS AND PROCEDURES WITH APPROVED SUBMITTALS	FIELD INSPECTION	PERIODIC	
☐	b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	FIELD INSPECTION	PERIODIC	
☐	c. SIZE AND LOCATION OF STRUCTURAL MEMBERS	FIELD INSPECTION	PERIODIC	
☐	d. TYPE, SIZE, LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	FIELD INSPECTION	LEVEL B - PERIODIC; LEVEL C - CONTINUOUS	
☐	e. WELDING OF REINFORCEMENT	FIELD INSPECTION	CONTINUOUS	
☐	f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F)	FIELD INSPECTION	PERIODIC	
☐	g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	FIELD TESTING	CONTINUOUS	
☐	h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	FIELD INSPECTION	CONTINUOUS	
☐	i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS			
☐	• FOR THE FIRST 5,000 SQ FT	FIELD INSPECTION	CONTINUOUS	
☐	• AFTER THE FIRST 5,000 SQ FT	FIELD INSPECTION	LEVEL B - PERIODIC; LEVEL C - CONTINUOUS	
☐	D. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	FIELD INSPECTION	LEVEL B - PERIODIC; LEVEL C - CONTINUOUS	
	1705.5 WOOD CONSTRUCTION			
☐	1. FOR PREFABRICATED WOOD STRUCTURAL ELEMENTS, INSPECTION OF THE FABRICATION PROCESS AND ASSEMBLIES IN ACCORDANCE WITH SECTION 2704.2.5	SHOP ¹ INSPECTION	PERIODIC	
	1705.5.1 HIGH LOAD DIAPHRAGMS			
☐	1. VERIFY GRADE AND THICKNESS OF STRUCTURAL PANEL SHEATHING ARE IN COMPLIANCE WITH CONSTRUCTION DOCUMENTS	FIELD INSPECTION	PERIODIC	
☐	2. VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL OR STAPLE DIAMETER AND LENGTH, NUMBER OF FASTENERS LINE, AND THAT SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS MEET COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	FIELD INSPECTION	PERIODIC	
	1705.5.2 METAL-PLATE-CONNECTED WOOD TRUSSES			
☐	1. FOR TRUSS CLEAR SPAN EQUAL TO OR GREATER THAN 60'-0", VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING IS INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE	FIELD INSPECTION	PERIODIC	
	1705.5.3 MASS TIMBER CONSTRUCTION			
☐	1. INSPECTION OF ANCHORAGE AND CONNECTIONS OF MASS TIMBER CONSTRUCTION TO TIMBER DEEP FOUNDATION SYSTEMS	FIELD INSPECTION	PERIODIC	
☐	2. INSPECT ERECTION OF MASS TIMBER CONSTRUCTION	FIELD INSPECTION	PERIODIC	
☐	3. INSPECTION OF CONNECTIONS WHERE INSTALLATION METHODS ARE REQUIRED TO MEET DESIGN LOADS			
☐	A. VERIFY USE OF PROPER INSTALLATION EQUIPMENT FOR THREADED FASTENERS	FIELD INSPECTION	PERIODIC	
☐	B. VERIFY USE OF PRE-DRILLED HOLES WHERE REQUIRED FOR THREADED FASTENERS	FIELD INSPECTION	PERIODIC	
☐	C. INSPECT SCREWS, INCLUDING DIAMETER, LENGTH, HEAD TYPE, SPACING, INSTALLATION ANGLE, AND DEPTH FOR THREADED FASTENERS	FIELD INSPECTION	PERIODIC	
☐	D. INSPECT THREADED FASTENER ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS	FIELD INSPECTION	CONTINUOUS	
☐	E. INSPECT ADHESIVE ANCHORS NOT DEFINED IN ITEM ABOVE	FIELD INSPECTION	PERIODIC	
☐	F. INSPECT BOLTED CONNECTIONS	FIELD INSPECTION	PERIODIC	
☐	G. INSPECT CONCEALED CONNECTIONS	FIELD INSPECTION	PERIODIC	
	1705.6 SOILS			
☒	1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	FIELD INSPECTION	PERIODIC	
☒	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	FIELD INSPECTION	PERIODIC	
☒	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIAL	FIELD INSPECTION	PERIODIC	
☒	4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT; VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	FIELD INSPECTION	CONTINUOUS	
☒	5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND THAT THAT SITE HAS BEEN PREPARED PROPERLY.	FIELD INSPECTION	PERIODIC	

SCHEDULE OF SPECIAL INSPECTION SERVICES				
APPLICABLE TO PROJECT	MATERIAL / ACTIVITY	SERVICE	EXTENT	AGENT
	1705.7 DRIVEN DEEP FOUNDATIONS			
☐	1. VERIFY ELEMENT MATERIALS, SIZES, AND LENGTHS COMPLY WITH REQUIREMENTS	FIELD INSPECTION	CONTINUOUS	
☐	2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS AS REQUIRED	FIELD INSPECTION	CONTINUOUS	
☐	3. INSPECT DRIVING OPERATIONS AND OBTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	FIELD INSPECTION	CONTINUOUS	
☐	4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF LOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT	FIELD INSPECTION	CONTINUOUS	
☐	5. FOR STEEL ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2	SEE SECTION 1705.2	SEE SECTION 1705.2	
☐	6. FOR CONCRETE-FILLED ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	SEE SECTION 1705.3	SEE SECTION 1705.3	
☐	7. FOR SPECIALTY ELEMENTS PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL	FIELD INSPECTION	CONTINUOUS	
	1705.8 CAST-IN-PLACE DEEP FOUNDATIONS			
☐	1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	FIELD INSPECTION	CONTINUOUS	
☐	2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT SYSTEMS (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY, RECORD CONCRETE OR GROUT VOLUMES	FIELD INSPECTION	CONTINUOUS	
☐	3. FOR CONCRETE IS ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	SEE SECTION 1705.3	SEE SECTION 1705.3	
	1705.9 HELICAL PILE FOUNDATIONS			
☐	1. VERIFY INSTALLATION EQUIPMENT, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH, FINAL INSTALLATION TORQUE AND OTHER INSTALLATION DATA AS REQUIRED BY CONSTRUCTION DOCUMENTS	FIELD INSPECTION	CONTINUOUS	
	1705.10 FABRICATED ITEMS			
☒	1. SPECIAL INSPECTIONS OF FABRICATED ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704.2.5	SHOP INSPECTION	AS REQ'D	
	1705.11 SPECIAL INSPECTION FOR WIND RESISTANCE			
☐	1. SPECIAL INSPECTIONS SHALL BE PROVIDED AS NOTED IN FOLLOWING SECTIONS 1705.12.1 THROUGH 1705.12.3 WHERE THE FOLLOWING CONDITIONS APPLY			
☐	A. WIND EXPOSURE CATEGORY B, WHERE (V _{ASD}) EQUALS OR EXCEEDS 120 MPH	PER 1705.12.1 THROUGH 1705.12.3	AS REQ'D	
☐	B. WIND EXPOSURE CATEGORY C OR D, WHERE (V _{ASD}) EQUALS OR EXCEEDS 110 MPH	PER 1705.12.1 THROUGH 1705.12.3	AS REQ'D	
	1705.11.1 STRUCTURAL WOOD SPECIAL INSPECTIONS FOR WIND RESISTANCE			
☐	1. INSPECTION OF FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WIND FORCE-RESISTING SYSTEM	FIELD INSPECTION	CONTINUOUS	
☐	2. INSPECTION OF NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS OF THE MAIN WIND FORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD-DOWNS	SHOP ¹ AND FIELD INSPECTION	PERIODIC	
	1705.11.2 COLD-FORMED STEEL SPECIAL INSPECTIONS FOR WIND RESISTANCE			
☐	1. INSPECTION OF WELDING OPERATIONS OF ELEMENTS OF THE MAIN WIND FORCE-RESISTING SYSTEM	SHOP ² AND FIELD INSPECTION	PERIODIC	
☐	2. INSPECTION OF SCREW ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS OF THE MAIN WIND FORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS), AND HOLD-DOWNS.	SHOP ³ AND FIELD INSPECTION	PERIODIC	
	1705.11.3 SPECIAL INSPECTIONS FOR WIND RESISTING COMPONENTS			
☐	1. INSPECTION OF ROOF COVERING, ROOF DECK, AND ROOF FRAMING COMPONENTS	SHOP ¹ AND FIELD INSPECTION	PERIODIC	
☐	2. INSPECTION OF EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS	SHOP ¹ AND FIELD INSPECTION	PERIODIC	
	1705.12 SPECIAL INSPECTION FOR SEISMIC RESISTANCE			
	1705.12.1 STRUCTURAL STEEL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE			
☒	1. SEISMIC FORCE-RESISTING SYSTEMS IN SDC B, C, D, E, OR F	SHOP ¹ AND FIELD INSPECTION	PER AISC 341	
☒	2. OTHER STRUCTURAL STEEL ELEMENTS IN SDC B, C, D, E, OR F, INCLUDING STRUTS, COLLECTORS, CHORDS, AND FOUNDATION ELEMENTS	SHOP ¹ AND FIELD INSPECTION	PER AISC 341	
	1705.12.2 STRUCTURAL WOOD SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE			
☐	1. FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM FOR SDC C, D, E, OR F	FIELD INSPECTION	CONTINUOUS	
☐	2. NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS, AND HOLD-DOWNS FOR SDC C, D, E, OR F	SHOP ¹ AND FIELD INSPECTION	PERIODIC	
	1705.12.3 COLD FORMED STEEL LIGHT-FRAMED CONSTRUCTION SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE			
☐	1. DURING WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM FOR SDC C, D, E, OR F	SHOP ¹ AND FIELD INSPECTION	PERIODIC	
☐	2. SCREW ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS), AND HOLD-DOWNS FOR SDC C, D, E, OR F	SHOP ¹ AND FIELD INSPECTION	PERIODIC	
	1705.12.4 DESIGNATED SEISMIC SYSTEMS VERIFICATION FOR SEISMIC RESISTANCE			
☒	1. FOR SDC C, D, E, OR F, INSPECT AND VERIFY THAT THE COMPONENT LABEL, ANCHORAGE, AND MOUNTING CONFORMS TO CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH ASCE 7, SECTION 12.12.2	FIELD INSPECTION	PERIODIC	
☒	1705.12.5 ARCHITECTURAL COMPONENTS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE			
NOTE 6	1. FOR SDC C, D, E, OR F, INSPECT ERECTION AND FASTENING OF EXTERIOR CLADDING, INTERIOR AND EXTERIOR NONBEARING WALLS, AND INTERIOR AND EXTERIOR VENEER	FIELD INSPECTION	PERIODIC	
NOTE 6	2. FOR SDC D, E, OR F, INSPECT ANCHORAGE OF ACCESS FLOORS	FIELD INSPECTION	PERIODIC	
☒	1705.12.6 PLUMBING, MECHANICAL, AND ELECTRICAL COMPONENTS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE			
NOTE 6	1. ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STANDBY POWER SYSTEMS IN STRUCTURES ASSIGNED TO SDC C, D, E, OR F	FIELD INSPECTION	PERIODIC	
NOTE 6	2. ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT IN STRUCTURES ASSIGNED TO SDC E OR F	FIELD INSPECTION	PERIODIC	
NOTE 6	3. INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS AND THEIR ASSOCIATED MECHANICAL UNITS IN STRUCTURES ASSIGNED TO SDC C, D, E, OR F	FIELD INSPECTION	PERIODIC	
NOTE 6	4. INSTALLATION AND ANCHORAGE OF EQUIPMENT DESIGNED TO CARRY HAZARDOUS MATERIALS AND THEIR ASSOCIATED MECHANICAL UNITS IN STRUCTURES ASSIGNED TO SDC C, D, E, OR F	FIELD INSPECTION	PERIODIC	
NOTE 6	5. INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SDC C, D, E, OR F WITH APPROXIMATE APPROXIMATE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 1/4" OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND THE ISOLANT	FIELD INSPECTION	PERIODIC	

SCHEDULE OF SPECIAL INSPECTION SERVICES				
APPLICABLE TO PROJECT	MATERIAL / ACTIVITY	SERVICE	EXTENT	AGENCY
☒	1705.12.6 PLUMBING, MECHANICAL, AND ELECTRICAL COMPONENTS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (CONT)			
	6. INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING DUCT WORK, PIPING SYSTEMS, AND THEIR STRUCTURAL SUPPORTS, WHERE AUTOMATIC FIRE SPRINKLER SYSTEMS ARE INSTALLED IN STRUCTURES ASSIGNED TO SDC C, D, E, OR F TO VERIFY ONE OF THE FOLLOWING			
NOTE 6	A. MINIMUM CLEARANCES HAVE BEEN PROVIDED AS REQUIRED BY ASCE 7, SECTION 13.2.3	FIELD INSPECTION	PERIODIC	
NOTE 6	B. A NOMINAL CLEARANCE OF NOT LESS THAN 3" HAS BEEN PROVIDED BETWEEN FIRE PROTECTION SPRINKLER SYSTEM DROPS AND SPRIGS AND STRUCTURAL MEMBERS NOT USED COLLECTIVELY OR INDEPENDENTLY TO SUPPORT THE SPRINKLERS, EQUIPMENT ATTACHED TO THE BUILDING STRUCTURE, AND OTHER SYSTEMS' PIPING	FIELD INSPECTION	PERIODIC	
	1705.12.7 STORAGE RACKS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE			
☐	1. STORAGE RACKS AND CANTILEVERED STORAGE RACKS 8' OR GREATER IN HEIGHT IN STRUCTURES ASSIGNED TO SDC D, E, OR F			
NOTE 6	A. MATERIALS USED, TO VERIFY COMPLIANCE WITH ONE OR MORE OF THE MATERIAL TEST REPORTS IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS	FIELD INSPECTION	PERIODIC	
NOTE 6	B. FABRICATED STORAGE RACK ELEMENTS	FIELD INSPECTION	PERIODIC	
NOTE 6	C. STORAGE RACK ANCHORAGE INSTALLATION	FIELD INSPECTION	PERIODIC	
NOTE 6	D. COMPLETED STORAGE RACK SYSTEM, TO INDICATE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS	FIELD INSPECTION	PERIODIC	
	1705.12.8 SEISMIC ISOLATION SYSTEMS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE			
☐	1. FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES FOR SEISMIC ISOLATE SYSTEMS IN STRUCTURES ASSIGNED TO SDC B, C, D, E, OR F	SHOP ¹ AND FIELD INSPECTION	PERIODIC	
	1705.12.9 COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE			
☐	1. INSTALLATION OF COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES IN THE SEISMIC FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SDC D, E, OR F	FIELD INSPECTION	PERIODIC	
	1705.13 TESTING FOR SEISMIC RESISTANCE			
	1705.13.1 STRUCTURAL STEEL TESTING FOR SEISMIC RESISTANCE			
☐	1. NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL IN THE SEISMIC FORCE-RESISTING SYSTEM IN STRUCTURES ASSIGNED TO SDC B, C, D, E, OR F SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341	FIELD TEST	PERIODIC	
☐	2. NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL IN THE SEISMIC FORCE-RESISTING SYSTEM NOT COVERED IN ITEM 1 ABOVE, INCLUDING STRUTS, COLUMN CHORDS, AND FOUNDATION ELEMENTS IN STRUCTURES ASSIGNED TO SDC B, C, D, E, OR F, SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341	FIELD TEST	PERIODIC	
	1705.13.2 SEISMIC CERTIFICATION OF NONSTRUCTURAL COMPONENTS			
NOTE 6	1. REVIEW CERTIFICATE OF COMPLIANCE FOR NONSTRUCTURAL COMPONENTS IN STRUCTURES ASSIGNED TO SDC C, D, E, OR F	CERTIFICATE OF COMPLIANCE REVIEW	EACH SUBMITTAL	
	1705.13.3 SEISMIC CERTIFICATION OF DESIGNATED SEISMIC SYSTEMS			
☐	1. REVIEW CERTIFICATE OF COMPLIANCE FOR DESIGNATED SEISMIC SYSTEM COMPONENTS IN STRUCTURES ASSIGNED TO SDC C, D, E, OR F	CERTIFICATE OF COMPLIANCE REVIEW	EACH SUBMITTAL	
	1705.13.4 SEISMIC ISOLATION SYSTEMS TESTING			
☐	1. TEST SEISMIC ISOLATION SYSTEM IN ACCORDANCE WITH ASCE 7, SECTION 17.2 IN STRUCTURES ASSIGNED TO SDC C, D, E, OR F	PROTOTYPE TESTING	PER ASCE 7	
	1705.14 SPRAYED FIRE-RESISTANT MATERIALS			
NOTE 6	1. VERIFY THE FOLLOWING WITH PHYSICAL AND VISUAL TESTS: A. CONDITION OF SUBSTRATES B. THICKNESS OF APPLICATION C. DENSITY IN POUNDS PER CUBIC FOOT D. BOND STRENGTH ADHESION/COHESION E. CONDITION OF FINISHED APPLICATION	FIELD INSPECTION	PERIODIC	
NOTE 6	2. INSPECT STRUCTURAL MEMBER SURFACE CONDITIONS	FIELD INSPECTION	PERIODIC	
NOTE 6	3. INSPECT APPLICATION PER MANUFACTURER'S INSTRUCTIONS	FIELD INSPECTION	PERIODIC	
NOTE 6	4. VERIFY MINIMUM THICKNESS OF SPRAYED FIRE-RESISTANT MATERIALS	FIELD INSPECTION	PERIODIC	
NOTE 6	5. VERIFY DENSITY OF SPRAYED FIRE-RESISTANT MATERIALS COMPLIES WITH APPROVED FIRE-RESISTANT DESIGN	FIELD INSPECTION AND TESTING	PER IBC, SECTION 1705.14.5 PER ASTM E2174	
NOTE 6	6. VERIFY COHESIVE/ADHESIVE BOND STRENGTH OF THE CURED SPRAYED FIRE-RESISTANT MATERIAL	FIELD INSPECTION AND TESTING	PER IBC, SECTION 1705.14.6	
	1705.15 MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS			
NOTE 6	1. INSPECT AND TEST MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS APPLIED TO STRUCTURAL ELEMENTS AND DECKS PER AIA 120.8	FIELD INSPECTION	PERIODIC	
NOTE 6	1. VERIFY MATERIALS, DETAILS, AND INSTALLATIONS ARE PER THE APPROVED CONSTRUCTION DOCUMENTS	FIELD INSPECTION	PERIODIC	
NOTE 6	2. INSPECT WATER-RESISTIVE BARRIER OVER SHEATHING SUBSTRATE	FIELD INSPECTION	PERIODIC	
	1705.17 FIRE-RESISTANT PENETRATIONS AND JOINTS			
NOTE 6	1. INSPECT PENETRATION FIRESTOP	FIELD TESTING	PER ASTM E2174	
NOTE 6	2. INSPECT FIRE-RESISTANT JOINT SYSTEMS	FIELD TESTING	PER ASTM E2393	
	1705.18 SMOKE CONTROL SYSTEMS			
NOTE 6	1. LEAKAGE TESTING AND RECORDING OF DEVICE LOCATIONS PRIOR TO CONCEALMENT	FIELD INSPECTION	PERIODIC	
NOTE 6	2. PRIOR TO OCCUPANCY AND AFTER FINAL COMPLETION, PRESSURE DIFFERENCE TESTING, FLOW MEASUREMENTS, AND DETECTION AND CONTROL VERIFICATION	FIELD INSPECTION	PERIODIC	
	1705.19 SEALING OF MASS TIMBER			
NOTE 6	1. INSPECT SEALANTS OR ADHESIVES WHERE SEALANT OR ADHESIVE REQUIRED BY SECTION 703.7 IS APPLIED TO MASS TIMBER BUILDING ELEMENTS AS DESIGNED IN THE APPROVED CONSTRUCTION DOCUMENTS	FIELD INSPECTION	PERIODIC	
INSPECTION AGENTS		FIRM	ADDRESS	TELEPHONE #
1. _____		_____	_____	_____
2. _____		_____	_____	_____
3. _____		_____	_____	_____
4. _____		_____	_____	_____
NOTES:				
1. THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL AND/OR DESIGN PROFESSIONAL.				
2. THE LIST OF SPECIAL INSPECTIONS MAY BE SUBMITTED AS A SEPARATE DOCUMENT, IF NOTED SO ABOVE.				
3. SPECIAL INSPECTIONS AS REQUIRED BY SECTION 1704.2.5 ARE NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5.2.				
4. OBSERVE - OBSERVE ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM - PERFORM THESE TASKS ON EACH WELDED JOINT, BOLTED CONNECTION, OR STEEL ELEMENT.				
5. NOT OF WELDED COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AIA. REFER TO AISC 360, N6.				
6. FOR NONSTRUCTURAL PENETRATIONS, MECHANICAL ENGINEER, ELECTRICAL ENGINEER, AND/OR PLUMBING ENGINEER SHALL IDENTIFY REQUIRED SPECIAL INSPECTIONS.				
ARE REQUIREMENTS FOR SEISMIC RESISTANCE INCLUDED IN THE STATEMENT OF SPECIAL INSPECTIONS? ☐ YES ☐ NO				
ARE REQUIREMENTS FOR WIND RESISTANCE INCLUDED IN THE STATEMENT OF SPECIAL INSPECTIONS? ☐ YES ☐ NO				

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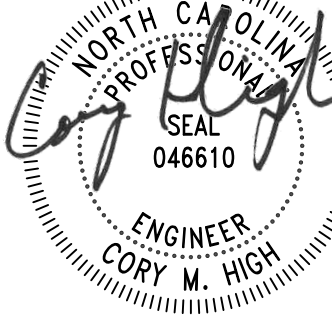
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CANTON POLICE STATION RENO

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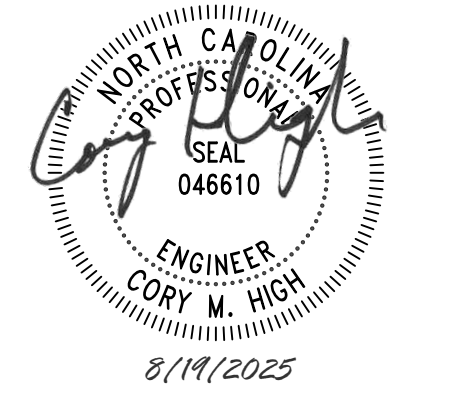
SPECIAL INSPECTIONS

S0.03

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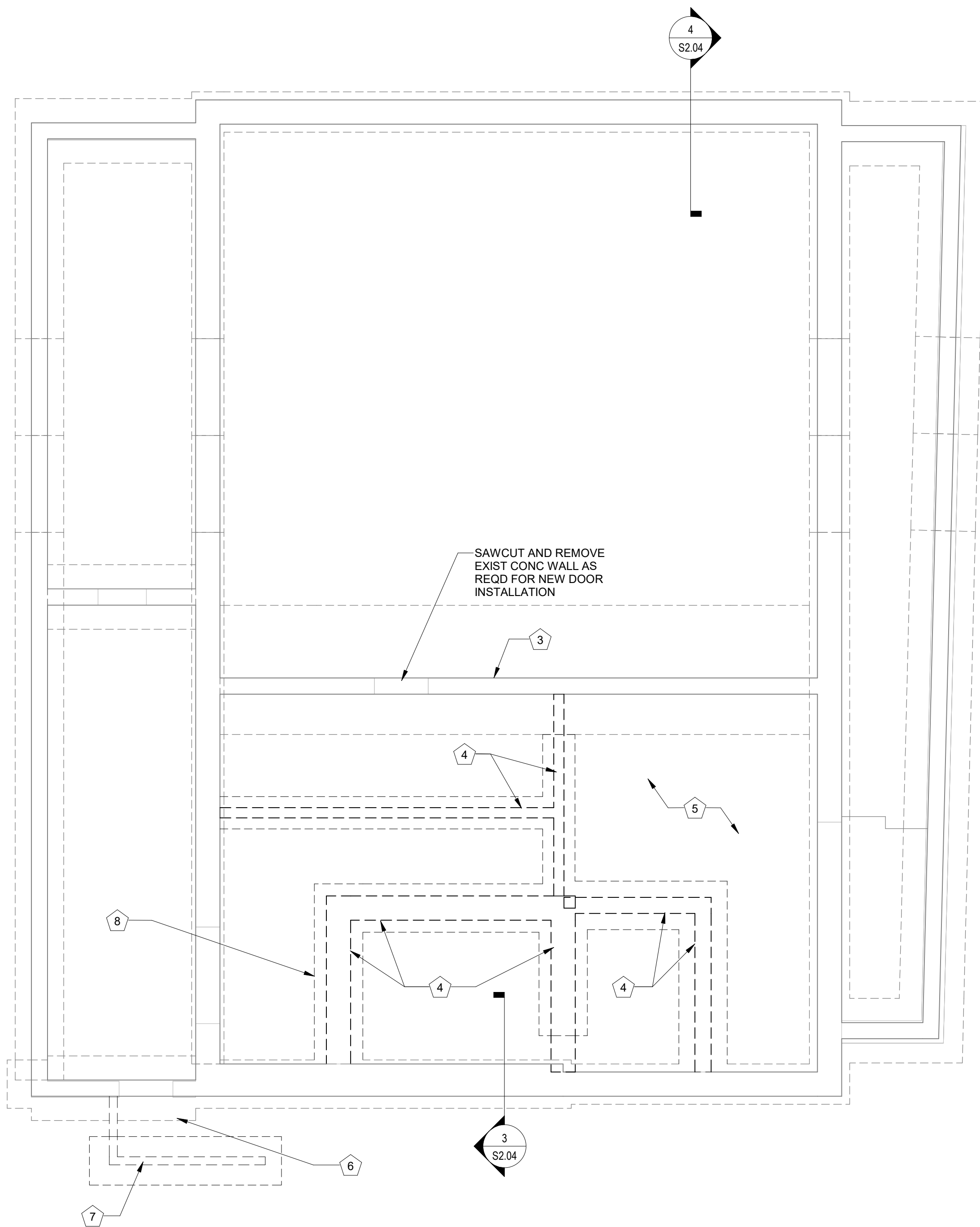
CANTON POLICE STATION RENO

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Project Number:	2023-001-01
Date:	AUGUST 19, 2025

EXISTING / DEMO STRUCTURAL PLANS

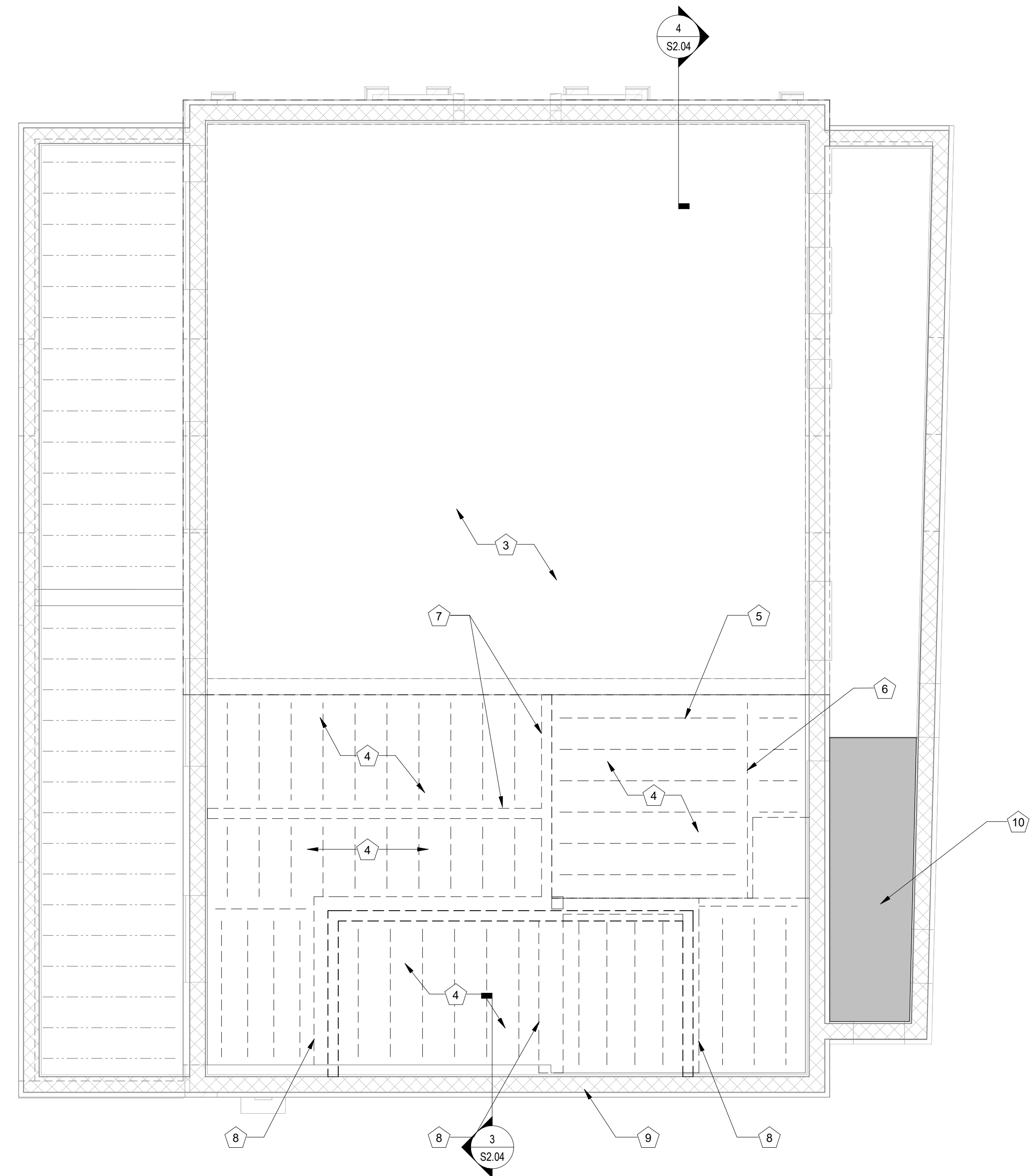
S1.11



1 BASEMENT FOUNDATION DEMO PLAN (EXIST)
S1.11 SCALE: 3/16" = 1'-0"

FOUNDATION PLAN NOTES:

1. AVOID DAMAGING EXISTING STRUCTURAL ELEMENTS THAT ARE TO REMAIN. IF THE INTEGRITY OF A STRUCTURAL ELEMENT IS IN QUESTION FOLLOWING DEMOLITION, NOTIFY THE DESIGN TEAM IMMEDIATELY.
2. FIELD VERIFY ALL NECESSARY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO DEMOLITION OR FABRICATIONS AS REQUIRED BY THE DESIGN TEAM. EXISTING CONDITIONS SHALL BE FIELD VERIFIED FROM WHAT IS INDICATED ON THE CONTRACT DRAWINGS.
3. EXISTING LOAD BEARING CIP CONCRETE RETENTION WALL TO REMAIN. PROVIDE TEMPORARY LATERAL BRACING PRIOR TO REMOVAL OF SLAB ON GRADE AT TOP OF WALL. BRACING MUST REMAIN IN PLACE UNTIL RETAINED FILL IS EXCAVATED BEHIND WALL.
4. EXISTING LOAD BEARING CIP CONCRETE RETENTION WALL TO REMAIN. EXISTING FIRST AND SECOND LEVEL FRAMING PLANS FOR ELEVATED FRAMING DEMO REQUIRED PRIOR TO REMOVAL OF WALL.
5. FIELD VERIFY CONCRETE SLAB ON GRADE CONSTRUCTION PRIOR TO DEMOLITION. SAW-CUT AND REMOVE EXISTING SLAB ON GRADE TO EXPOSE EXISTING FOOTING.
6. EXISTING EXTERIOR CIP STEPS ON GRADE AND ENTRY SLAB TO BE REMOVED. DO NOT DAMAGE EXTERIOR BUILDING WALL OR SUPPORTING FOUNDATIONS.
7. EXISTING EXTERIOR CIP CONCRETE WALL AT STEPS TO BE REMOVED. DO NOT DAMAGE EXISTING BUILDING WALL.
8. REMOVE EXISTING FOUNDATION AS REQUIRED FOR NEW COLUMN FOOTINGS. SEE FOUNDATION PLAN.



**FIRST FLOOR FOUNDATION & FRAMING DEMO PLAN
(EXIST)**

2
S1.11 SCALE: 3/16" = 1'-0"

FOUNDATION PLAN NOTES:

1. DO NOT DAMAGE EXISTING STRUCTURAL ELEMENTS THAT ARE TO REMAIN, IF THE INTEGRITY OF A STRUCTURAL ELEMENT IS IN QUESTION FOLLOWING DEMOLITION, NOTIFY THE DESIGN TEAM IMMEDIATELY.
2. ALL NECESSARY PERMITS SHALL BE OBTAINED PRIOR TO DEMOLITION OR FABRICATIONS AS REQUIRED.
3. NOTIFY DESIGN TEAM IF EXISTING CONDITION VARY FROM WHAT IS INDICATED ON THE CONTRACT DRAWINGS.
4. FIELD VERIFIED CONCRETE SLAB ON GRADE CONSTRUCTION PRIOR TO DEMOLITION, SAW-CUT AND REMOVE EXISTING SLAB ON GRADE TO EXPOSE SUBGRADE.
5. EXISTING ELEVATED CONCRETE FLOOR SLAB TO BE REMOVED, TYPICAL.
6. EXISTING STEEL BARS JOISTS AT APPROXIMATELY 24" OC AS REQUIRED FOR NEW RETAINING WALL, NOTING INSTALLATION OF NEW RETAINING WALL.
7. EXISTING STEEL ORDER TO BE REMOVED.
8. EXISTING LOAD BEARING WALL TO BE REMOVED, REFERENCE EXISTING SECOND LEVEL FRAMING PLANS FOR SUPPORT WALLS PRIOR TO REMOVAL OF EXISTING WALL.
9. EXISTING ELEVATED FRAMING DEMO REQUIRED PRIOR TO REMOVAL OF WALL.
10. EXISTING MULTI-TYPED MASONRY WALL TO REMAIN, TYPICAL, ALL SIDES, CONTRACTOR TO PROVIDE TEMPORARY BRACING TO SUPPORT WALLS PRIOR TO REMOVAL OF EXISTING ROOF FRAMING.
11. EXISTING ELEVATED FLOOR SLAB AND STAIR FRAMING TO REMOVED, DO NOT DAMAGE EXISTING SUPPORTING WALLS

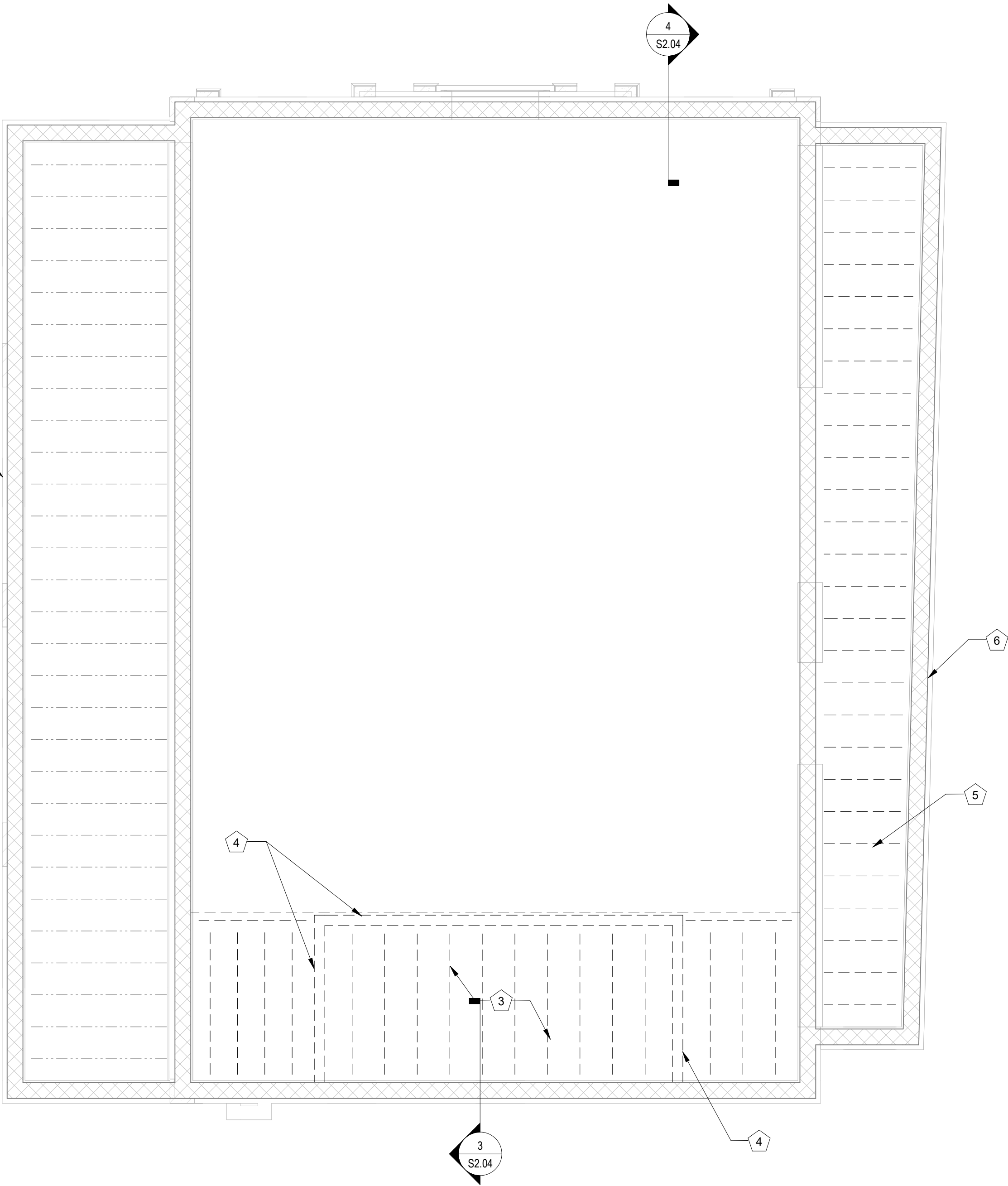
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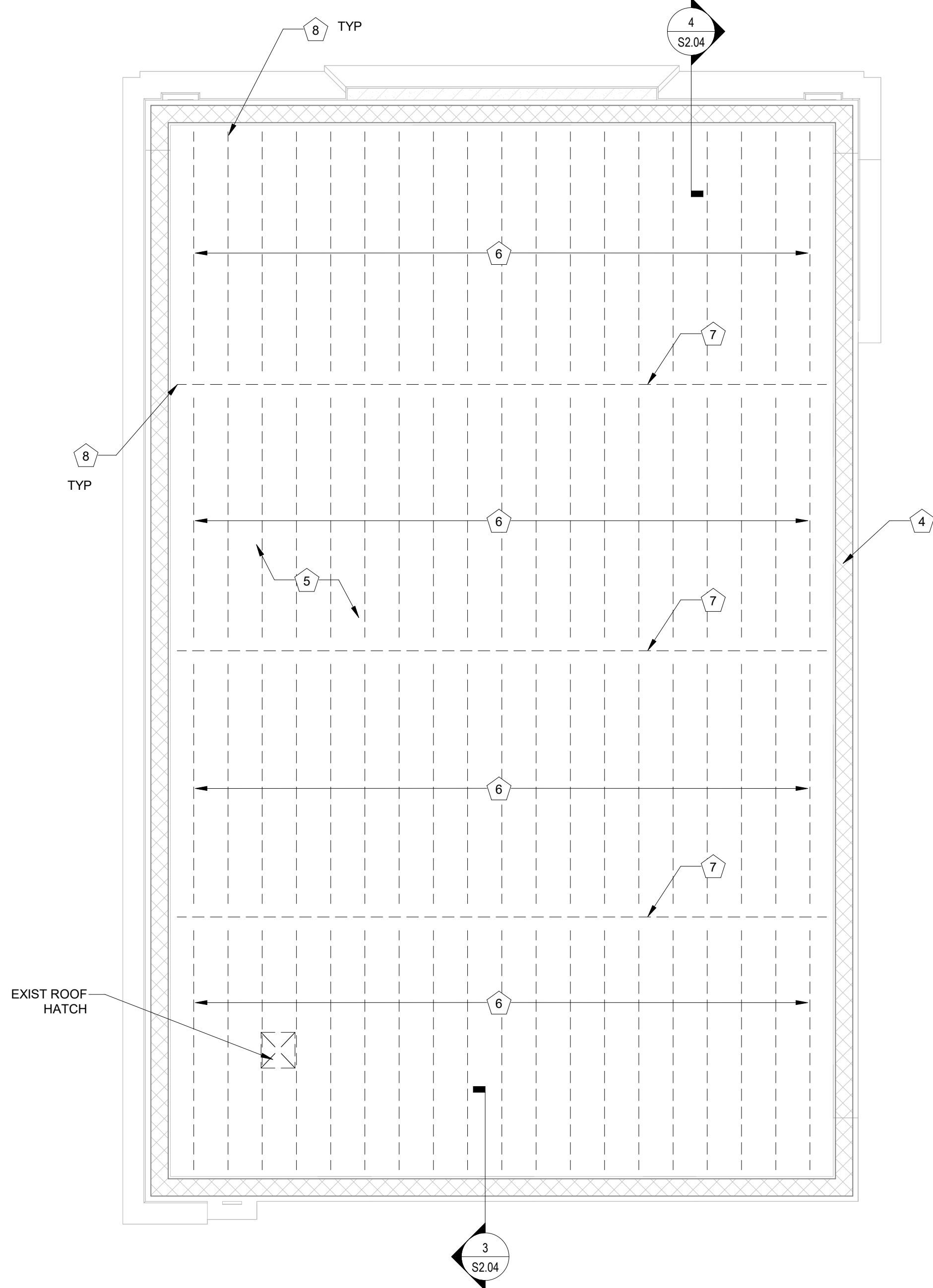
SAND-BLAST CLEAN EXIST CORRODED STEEL LINTELS. REPLACE COMPROMISED LINTELS PER NEW OPNG DETAIL. SEE ARCH DWGS FOR ADDL INFO



1
S1.12

SECOND FLOOR & LOW ROOF FRAMING DEMO PLAN (EXIST)
SCALE: 3/16" = 1'-0"

- FRAMING PLAN NOTES:**
1. AVOID DAMAGING EXISTING STRUCTURAL ELEMENTS THAT ARE TO REMAIN. IF THE INTEGRITY OF A STRUCTURAL ELEMENT IS IN QUESTION FOLLOWING DEMOLITION, NOTIFY THE DESIGN TEAM IMMEDIATELY.
 2. FIELD VERIFY ALL NECESSARY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO DEMOLITION OR FABRICATIONS AS REQUIRED. NOTIFY DESIGN TEAM IF EXISTING CONDITION VARY FROM WHAT IS INDICATED ON THE CONTRACT DRAWINGS.
 3. EXISTING ELEVATED CONCRETE FLOOR SLAB AND STEEL BAR JOISTS TO BE REMOVED.
 4. EXISTING LOAD BEARING WALL TO BE REMOVED.
 5. EXISTING 2x6 ROOF JOISTS AND LOW ROOF DECK TO BE REMOVED.
 6. EXISTING MASONRY WALL. DEMO TOP PORTION OF WALL AS REQUIRED FOR NEW PARAPET. CONTRACTOR TO PROVIDE TEMPORARY BRACING TO SUPPORT WALLS PRIOR TO REMOVAL OF EXISTING LOW ROOF FRAMING.



2
S1.12

ROOF FRAMING DEMO PLAN (EXIST)
SCALE: 3/16" = 1'-0"

- FRAMING PLAN NOTES:**
1. AVOID DAMAGING EXISTING STRUCTURAL ELEMENTS THAT ARE TO REMAIN. IF THE INTEGRITY OF A STRUCTURAL ELEMENT IS IN QUESTION FOLLOWING DEMOLITION, NOTIFY THE DESIGN TEAM IMMEDIATELY.
 2. FIELD VERIFY ALL NECESSARY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO DEMOLITION OR FABRICATIONS AS REQUIRED. NOTIFY DESIGN TEAM IF EXISTING CONDITION VARY FROM WHAT IS INDICATED ON THE CONTRACT DRAWINGS.
 3. FIELD VERIFY EXISTING ROOF FRAMING PRIOR TO ANY DEMOLITION WORK.
 4. EXISTING MULTIVITHE MASONRY WALL TO REMAIN. TYPICAL ALL SIDES. CONTRACTOR TO PROVIDE TEMPORARY BRACING TO SUPPORT WALLS PRIOR TO REMOVAL OF EXISTING ROOF FRAMING.
 5. EXISTING ELEVATED CONCRETE ROOF SLAB TO BE REMOVED.
 6. EXISTING 9" DEEP STEEL BARS JOISTS AT APPROXIMATELY 24" OC TO BE REMOVED.
 7. EXISTING WIDE FLANGE STEEL GIRDER TO BE REMOVED.
 8. CAREFULLY REMOVE EXISTING FRAMING MEMBERS BEARING AT EXISTING MASONRY WALL. DO NOT DAMAGE WALL. FILL BEARING POCKETS AT EXISTING GIRDER ENDS WITH NON-SHRINK GROUT, TYPICAL.

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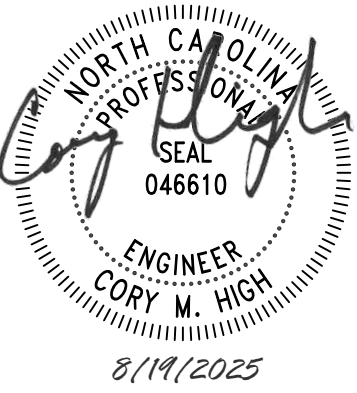
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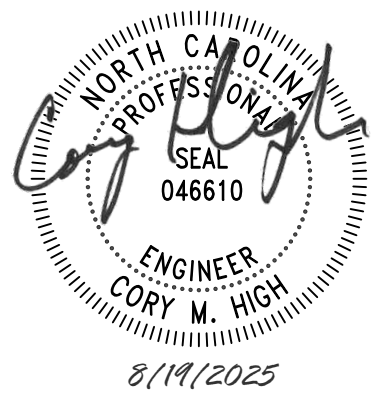
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**EXISTING / DEMO
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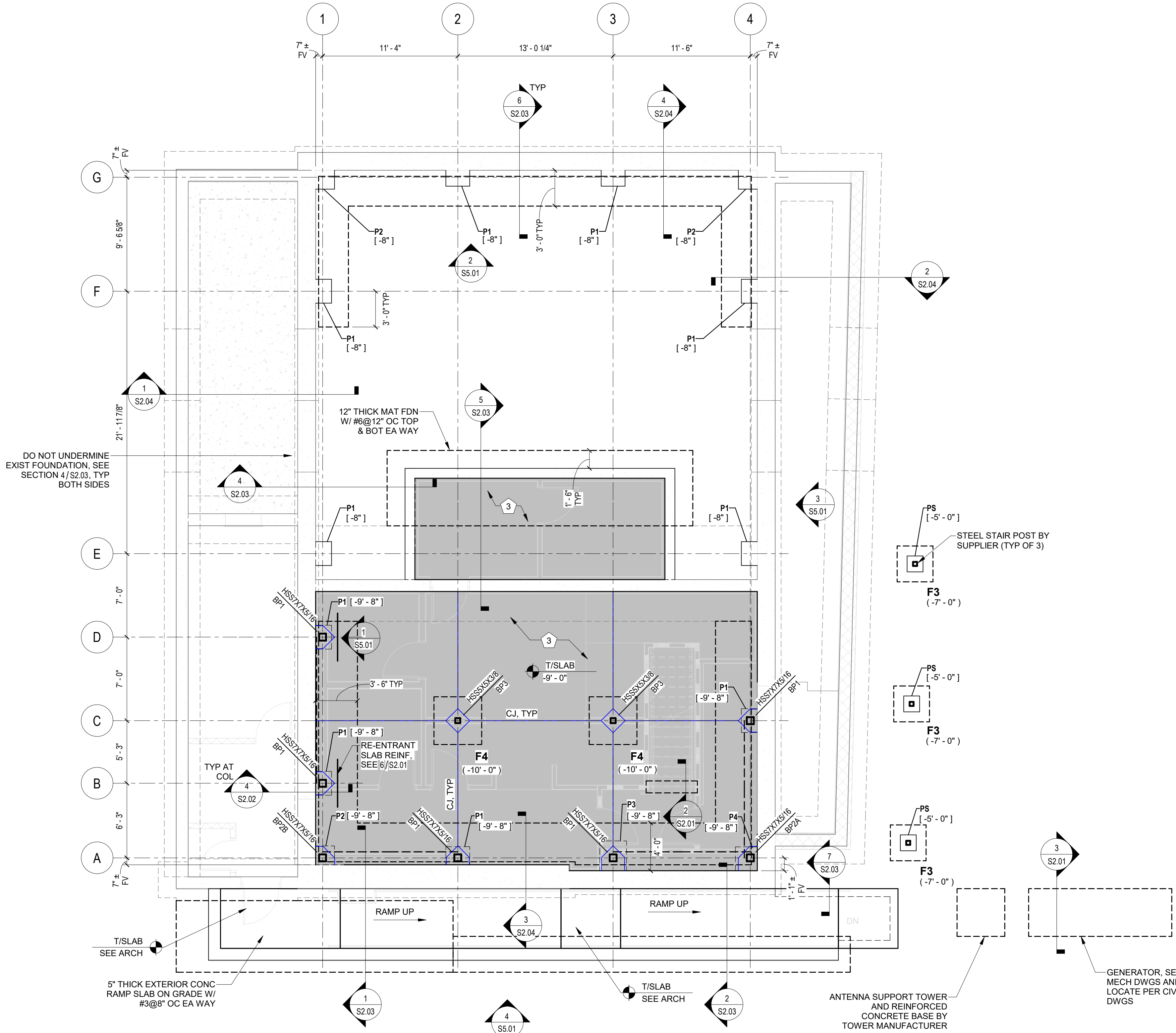
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STRUCTURAL PLANS

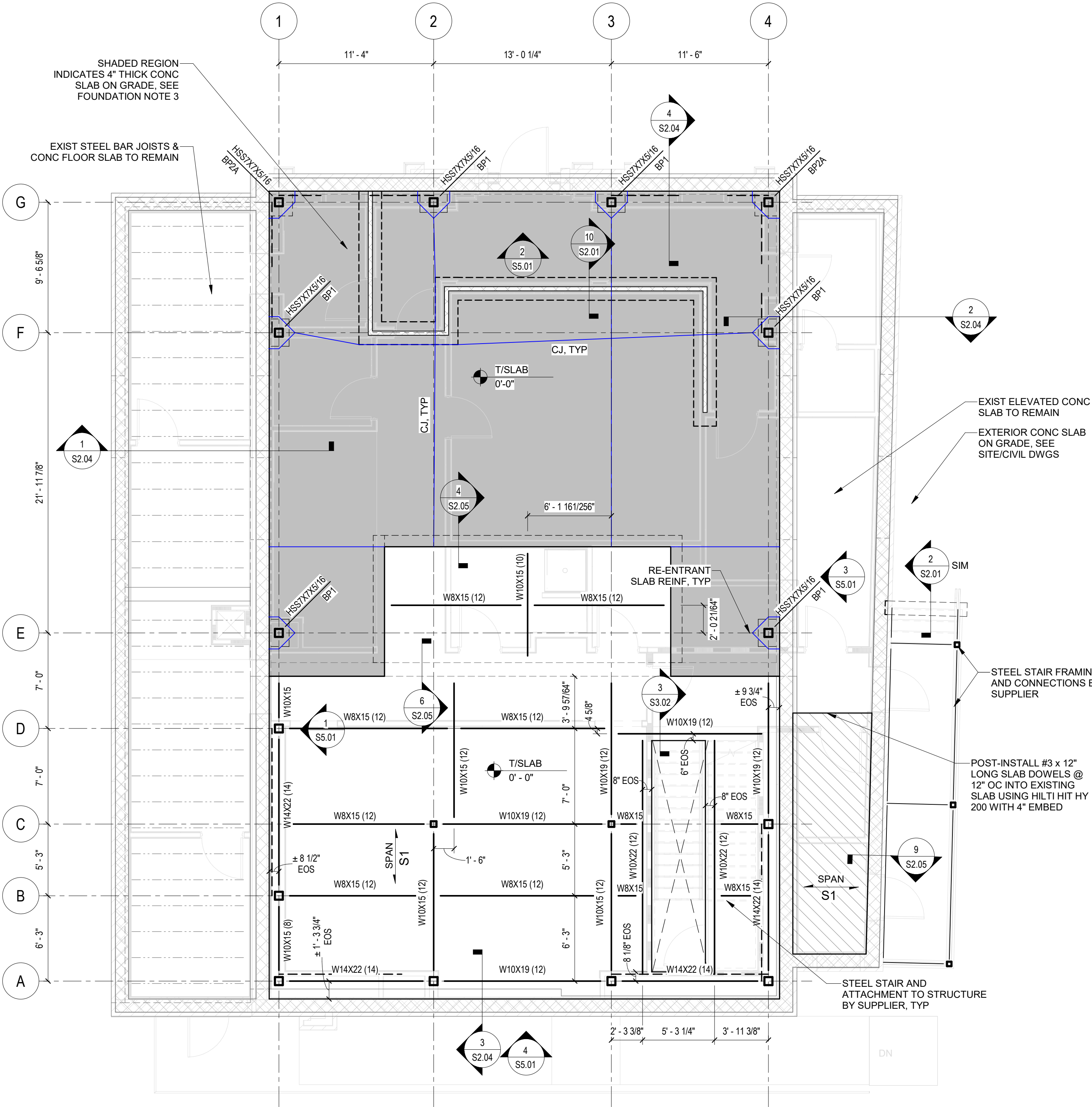
S1.21

NOTE:
CONTRACTOR TO REVIEW THE GEOTECHNICAL REPORT REFERENCED IN THE GENERAL NOTES PRIOR TO CONSTRUCTION. NOTE THAT GEOTECHNICAL CONDITIONS AND SUBGRADE REMEDIATION AND PREPARATION REQUIREMENTS VARY BETWEEN THE BASEMENT AND FIRST LEVELS. A GEOTECHNICAL CONSULTANT MUST BE ENGAGED AS OUTLINED IN THE REPORT FOR SOIL EVALUATION PRIOR TO INSTALLATION OF NEW FOUNDATIONS.



1 BASEMENT FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

- FOUNDATION PLAN NOTES:
- FOR GENERAL NOTES, ABBREVIATIONS, AND STRUCTURAL LEGEND, SEE S0 SERIES SHEETS.
 - REFERENCE FINISH FLOOR ELEVATION = 0'-0". SEE CIVIL DRAWINGS FOR TRUE ELEVATION.
 - TYPICAL SLAB-ON-GRADE SHALL BE 4" THICK CONCRETE WITH 6X6-W2.1XW2.1 WWF AT SHADED REGIONS.
 - PROVIDE CONTROL JOINTS IN SLAB-ON-GRADE AT EACH COLUMN GRID AND AT 12'-0" OC MAX. SEE GENERAL NOTES AND TYPICAL SLAB-ON-GRADE DETAILS FOR ADDITIONAL REQUIREMENTS.
 - SEE ARCHITECTURAL AND/OR MEP DRAWINGS FOR LOCATIONS OF DRAINS AND SLOPES.
 - (X-X') INDICATES TOP OF FOUNDATION ELEVATION RELATIVE TO FINISH FLOOR.
 - (X-X') INDICATES TOP OF PIER ELEVATION RELATIVE TO FINISH FLOOR. TOP OF EXISTING FOUNDATIONS MUST BE FIELD VERIFIED PRIOR TO STEEL FABRICATION. MINIMUM PIER HEIGHT IS 1'-4". SEE DETAILS ON SHEET S2.02.
 - UNLESS NOTED OTHERWISE, WHERE CONCRETE FOUNDATION ELEMENTS OVERLAP, REINFORCING SPECIFIED IN EACH ELEMENT SHALL BE CONTINUOUS THROUGH THE OVERLAPPING PORTION.
 - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
 - SEE S2 SERIES SHEETS FOR TYPICAL FOUNDATION DETAILS.
 - "F#" INDICATES FOOTING MARK. SEE FOOTING SCHEDULE.
 - "P#" INDICATES PIER MARK. SEE PIER SCHEDULE.
 - "BP#" INDICATES BASEPLATE MARK. SEE BASEPLATE SCHEDULE.
 - GENERATOR FOUNDATION SIZE, PEDESTAL LAYOUT AND FRAMING SUBJECT TO CHANGE PENDING EQUIPMENT REQUIREMENT INFORMATION.



2 FIRST FLOOR FOUNDATION & FRAMING PLAN
SCALE: 3/16" = 1'-0"

- ELEVATED FLOOR FRAMING PLAN NOTES:
- UNLESS NOTED OTHERWISE, TOP OF STEEL SHALL MATCH BOTTOM OF COMPOSITE SLAB. (X-X') INDICATES TOP OF STEEL BELOW FFE.
 - "S1" FLOOR CONSTRUCTION SHALL BE 3 1/4" LIGHT WEIGHT CONCRETE ON 2" 20GA COMPOSITE STEEL DECK (TOTAL DEPTH = 5 1/4") REINFORCED WITH 6X6-W1.4XW1.4 1 1/2" BELOW TOP OF SLAB.
 - CONCRETE ON ELEVATED METAL DECKS MUST BE PLACED TO THE SLAB THICKNESS INDICATED ON PLAN.
 - UNLESS NOTED OTHERWISE, SPACE BEAMS EQUALLY BETWEEN GRIDS.
 - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
 - SEE S3 SERIES SHEETS FOR TYPICAL COMPOSITE STEEL FRAMING DETAILS.
 - CONTRACTOR COORDINATE AND CONFIRM MECHANICAL OPENINGS WITH MEP DRAWINGS AND PURCHASED EQUIPMENT.
 - PROVIDE (1) HEADED STUD PER FOOT AT ALL BEAM TOP FLANGES PER TYPICAL COMPOSITE STEEL FRAMING DETAILS, UNO.
 - "ML" INDICATES NEW STEEL LINTEL IN EXISTING MASONRY WALL. SEE TYPICAL LINTEL DETAIL IN EXISTING WALL FOR LINTEL REQUIREMENTS.



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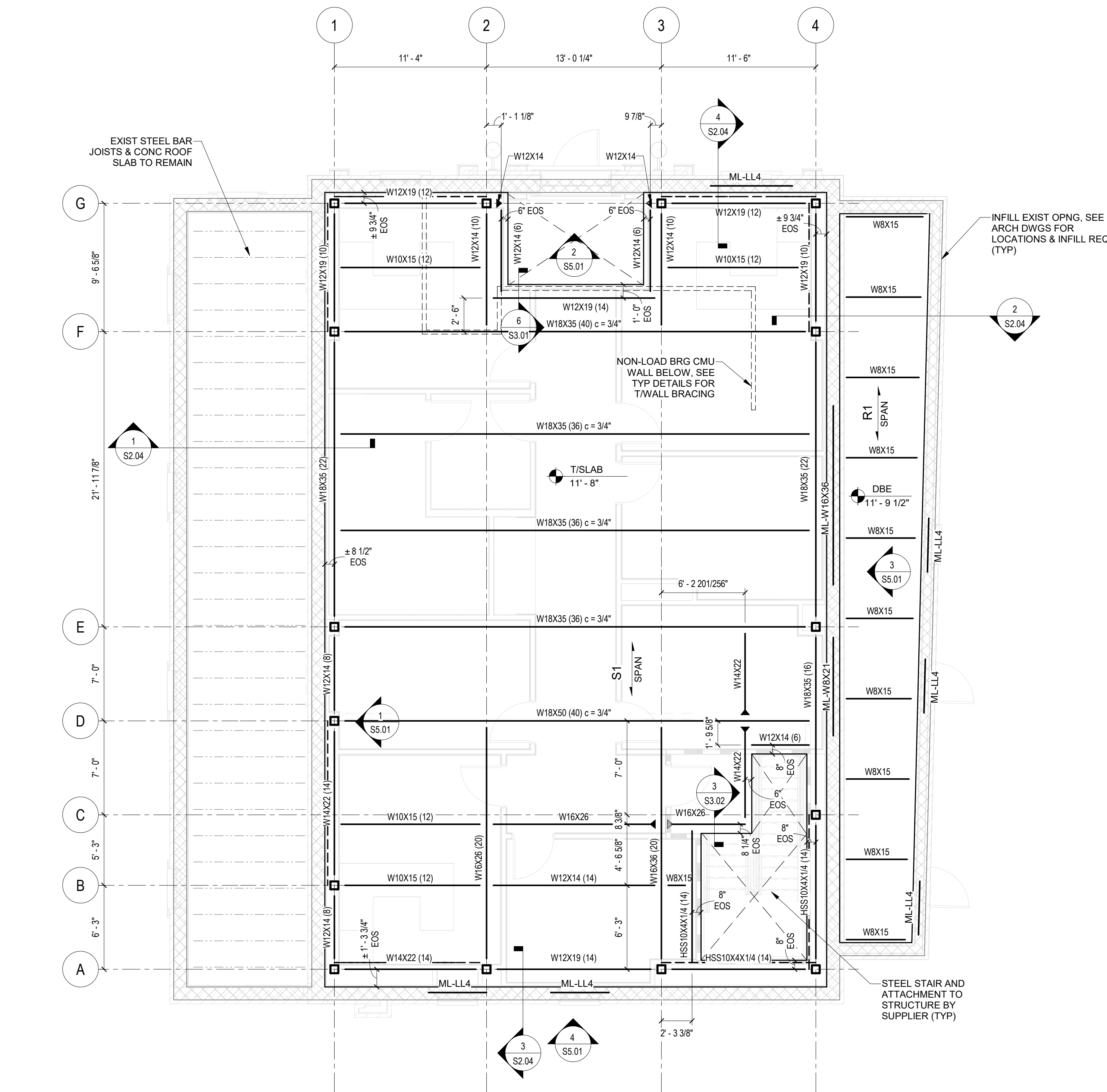
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B

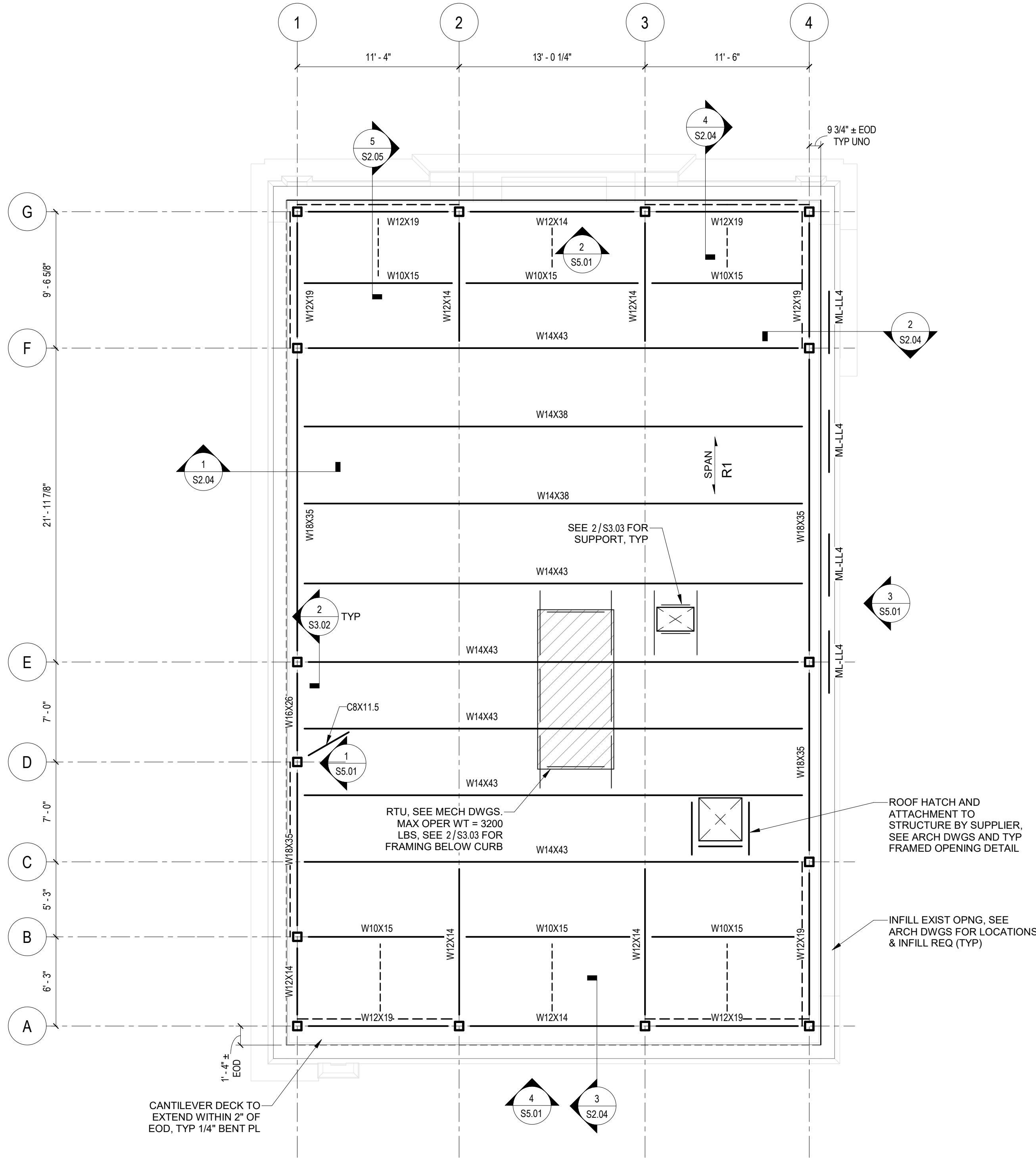
A



1 SECOND FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

ELEVATED FLOOR FRAMING PLAN NOTES:

- UNLESS NOTED OTHERWISE, TOP OF STEEL SHALL MATCH BOTTOM OF COMPOSITE SLAB. [-X"] INDICATES TOP OF STEEL BELOW FFE.
- "S1" FLOOR CONSTRUCTION SHALL BE 3 1/4" LIGHT WEIGHT CONCRETE ON 2" 20GA COMPOSITE STEEL DECK (TOTAL DEPTH = 5 1/4") REINFORCED WITH 6#6-W1.4XW1.4 1 1/2" BELOW TOP OF SLAB.
- CONCRETE ON ELEVATED METAL DECKS MUST BE PLACED TO THE SLAB THICKNESS INDICATED ON PLAN.
- UNLESS NOTED OTHERWISE, SPACE BEAMS EQUALLY BETWEEN GRIDS.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- SEE S3 SERIES SHEETS FOR TYPICAL COMPOSITE STEEL FRAMING DETAILS.
- CONTRACTOR COORDINATE AND CONFIRM MECHANICAL OPENINGS WITH MEP DRAWINGS AND PURCHASED EQUIPMENT.
- PROVIDE (1) HEADED STUD PER FOOT AT ALL BEAM TOP FLANGES PER TYPICAL COMPOSITE STEEL FRAMING DETAILS. UNO.
- "ML" INDICATES NEW STEEL LINTEL IN EXISTING MASONRY WALL. SEE TYPICAL LINTEL DETAIL IN EXISTING WALL FOR LINTEL REQUIREMENTS.



2 ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

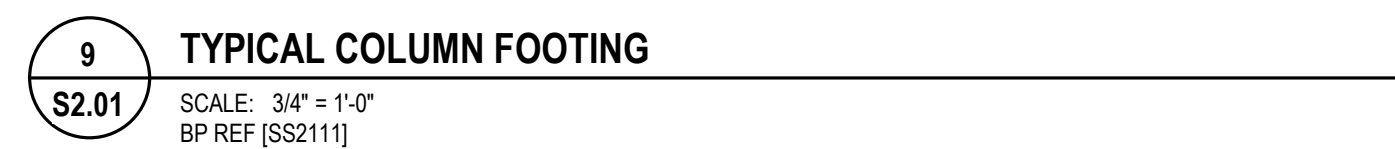
ROOF PLAN NOTES:

- DBE = 22'-10" INDICATES DECK BEARING ELEVATION.
- "R1" ROOF CONSTRUCTION SHALL BE 1-1/2" 20GA TYPE B ROOF DECK.
- UNLESS NOTED OTHERWISE, TOP OF STEEL SHALL MATCH DECK BEARING ELEVATION. [-X"] INDICATES TOP OF STEEL BELOW DBE.
- UNLESS NOTED OTHERWISE, SPACE BEAMS EQUALLY BETWEEN GRIDS.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- SEE S3 SERIES SHEETS FOR TYPICAL ROOF FRAMING DETAILS.
- CONTRACTOR COORDINATE AND CONFIRM MECHANICAL OPENINGS WITH MEP DRAWINGS AND PURCHASED EQUIPMENT.
- INDICATES BOTTOM FLANGE BEAM BRACING

Description	Date

Project Number:	2023-001-01
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S2.01

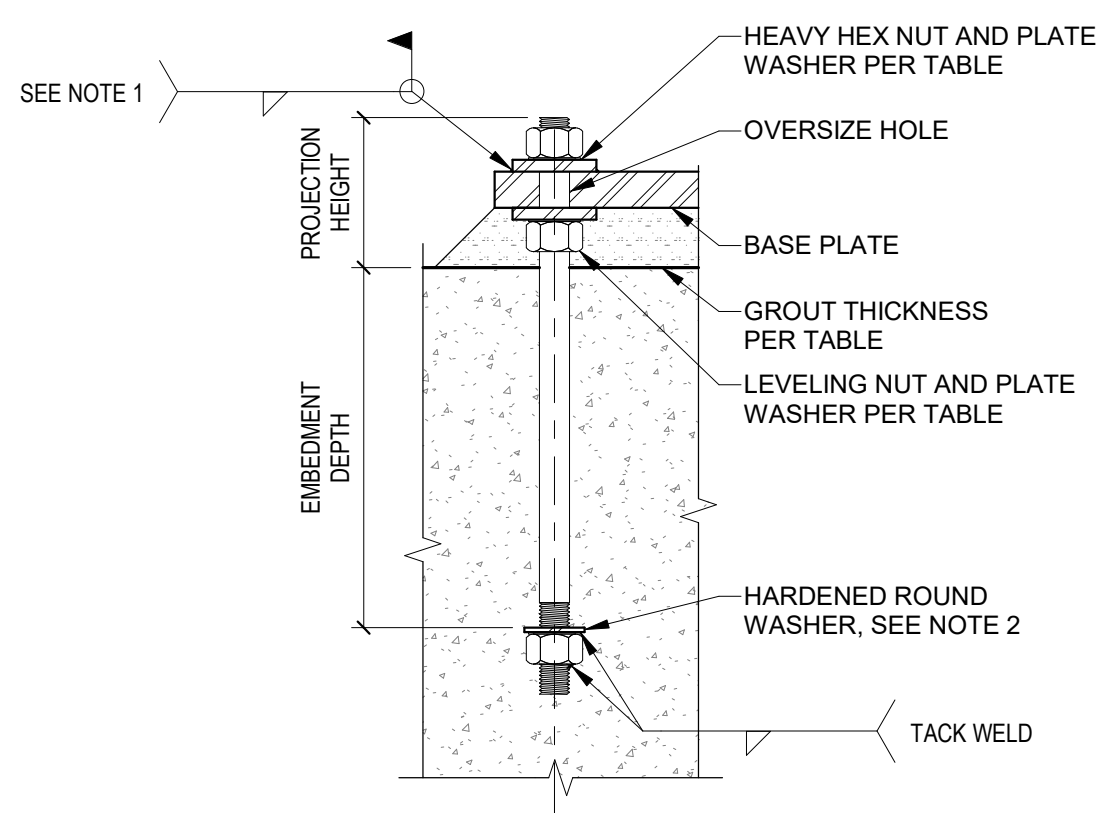


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ANCHOR ROD SCHEDULE							
ANCHOR ROD MARK	ANCHOR ROD Ø	GRADE	EMBEDMENT DEPTH	PROJECTION HEIGHT	PLATE WASHER	GROUT THICKNESS	TYPE
AR1	3/4"	F1554 GR 36	7 1/2"	6"	3/8"x2"x2"	2"	GRAVITY
AR2	1"	F1554 GR105	14"	6"	1/2"x3"x3"	2"	LATERAL

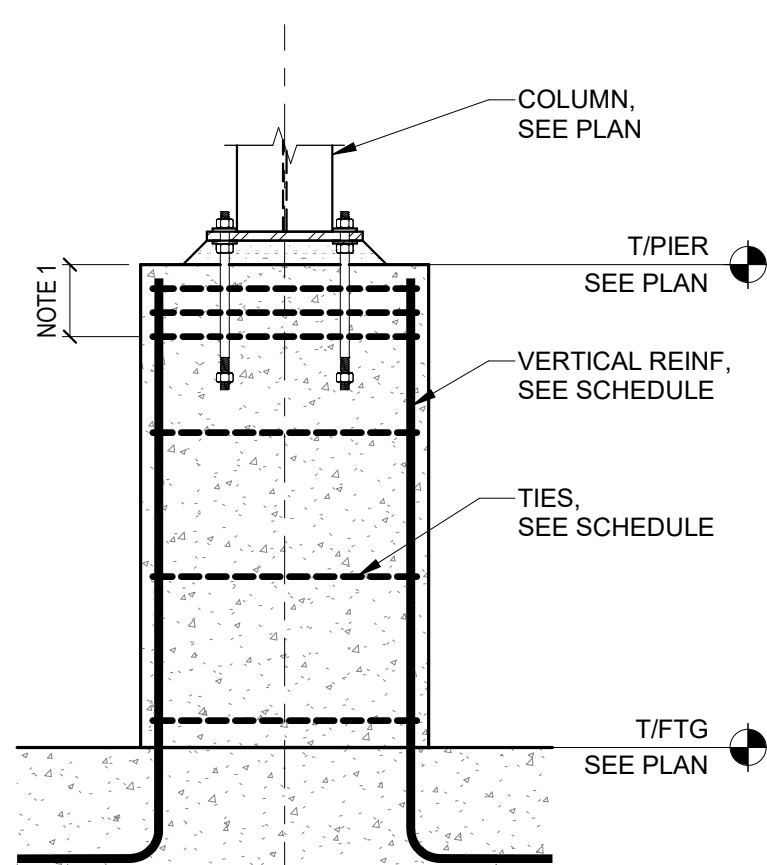
WHERE TOP OF EXISTING FOUNDATIONS DO NOT PERMIT ADEQUATE HEIGHT FOR A NEW CAST IN PLACE CONCRETE PEDESTAL, ANCHORS MAY BE POST-INSTALLED IN THE TOP OF EXISTING FOUNDATIONS USING HILTI HIT-RE 500 WITH 9" EMBED (HAS-B-105, F1554 GRADE 105 ANCHORS).

NOTES:

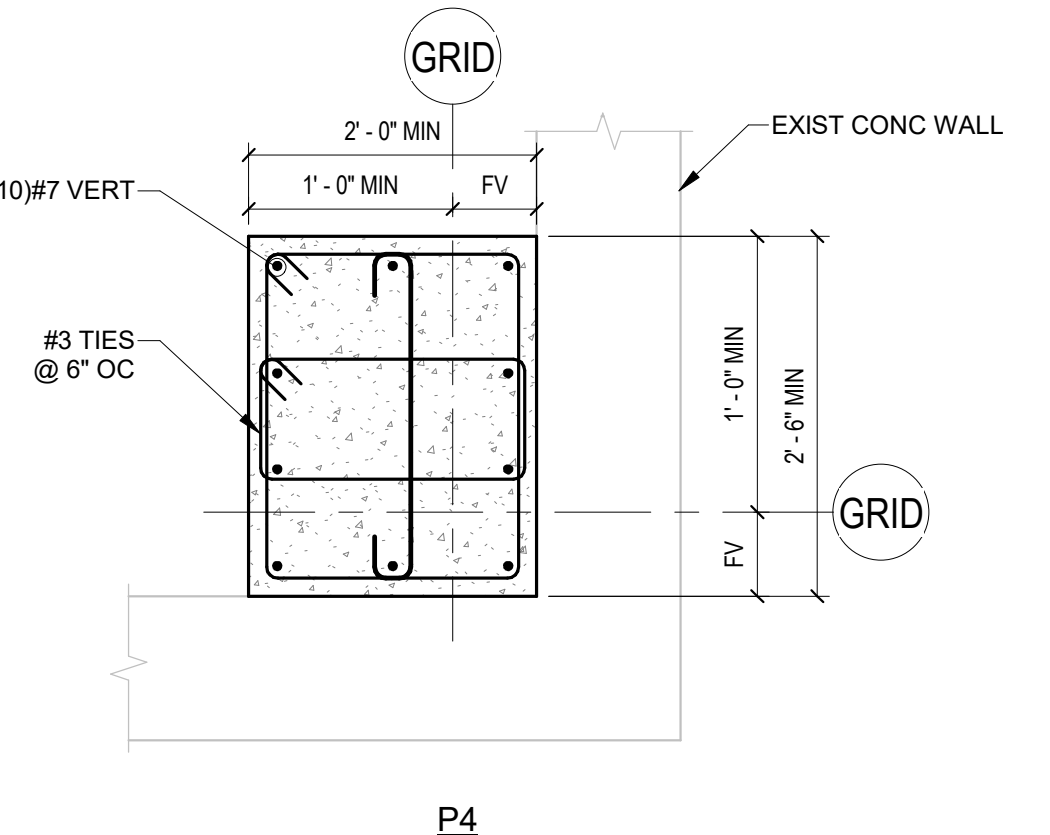
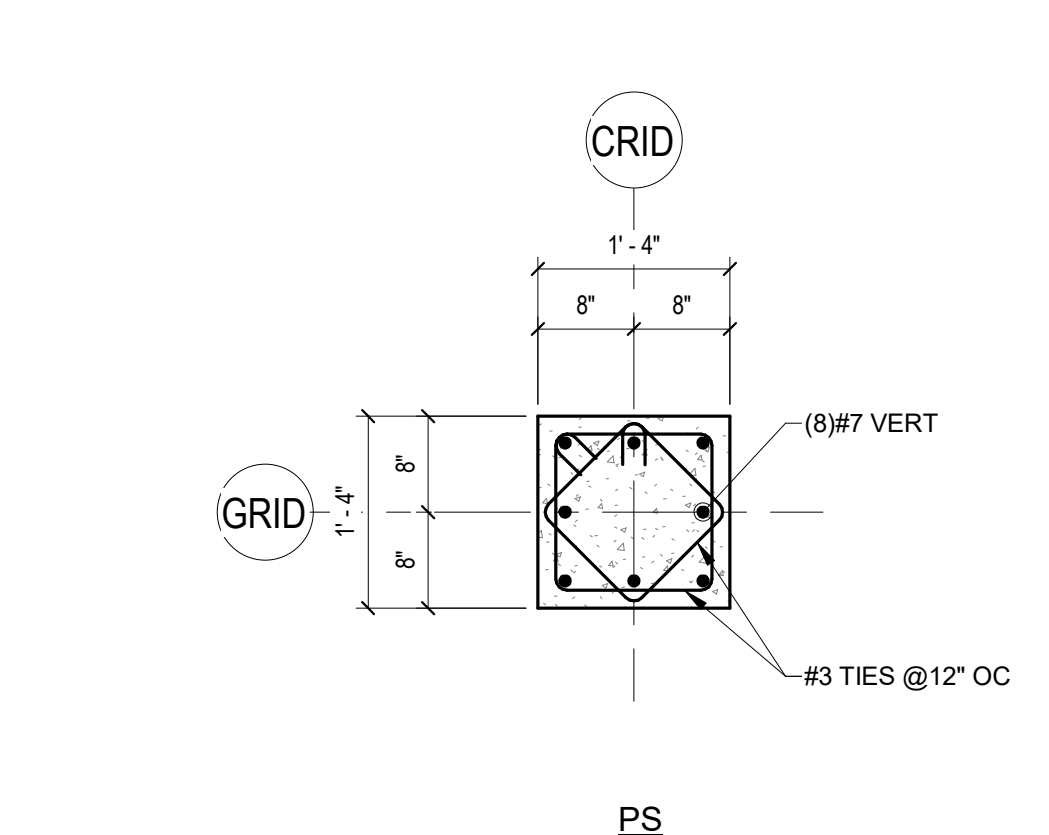
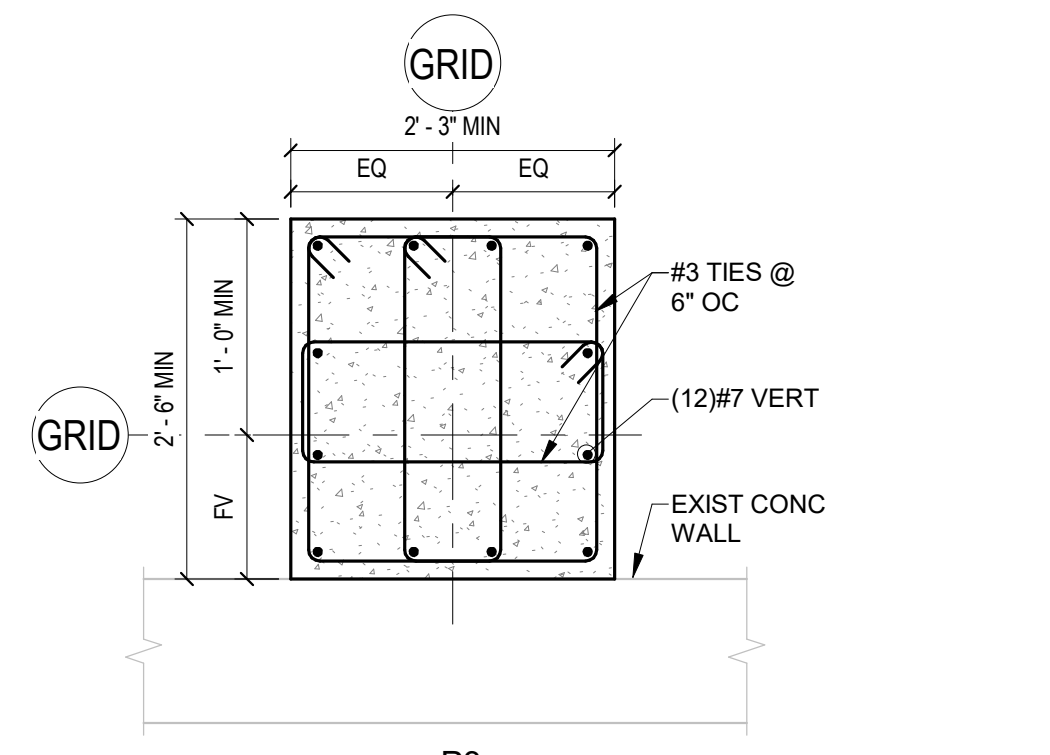
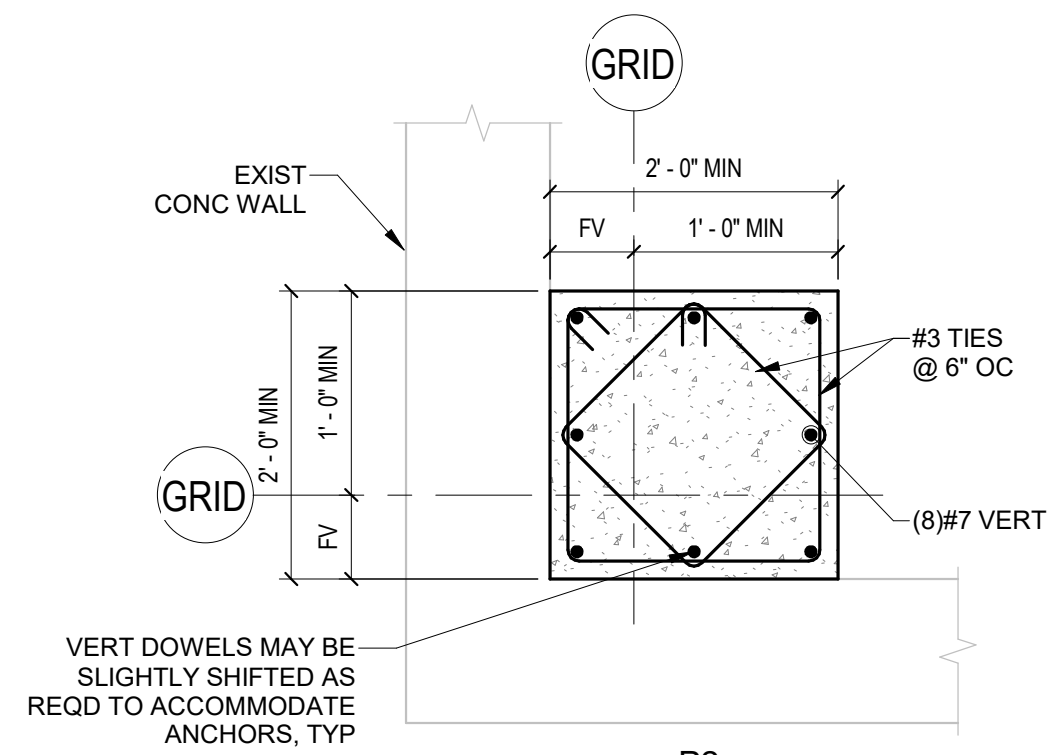
- ANCHOR RODS LISTED AS TYPE "GRAVITY" DO NOT REQUIRE A WELD FROM THE PLATE WASHER TO THE BASE PLATE. FOR ANCHOR RODS LISTED AS TYPE "LATERAL", SEE BASE PLATE DETAILS FOR REQUIRED WELD SIZE.
- ANCHOR RODS LISTED AS TYPE "GRAVITY" DO NOT REQUIRE A WASHER AT THE BOTTOM OF THE EMBEDMENT DEPTH.

1 ANCHOR ROD SCHEDULE

SCALE: 1 1/2" = 1'-0"
BP REF [S2210]



- REDUCE TIE SPACING AT TOP OF PIER AS NEEDED TO ENSURE A MINIMUM OF (3)#3 OR (2)#4 CLOSED TIES SURROUND ANCHOR RODS WITHIN THE TOP 5" OF THE PIER.
- WHERE PLANS SHOW CONCRETE WALLS OVERLAPPING WITH PIERS, WALL REINFORCING SHALL BE CONTINUOUS THROUGH PIER.
- WHERE DOWELS ARE LOCATED IN EXISTING FOUNDATIONS, POST-INSTALL USING HILTI HIT-HY 50 WITH 8" EMBED

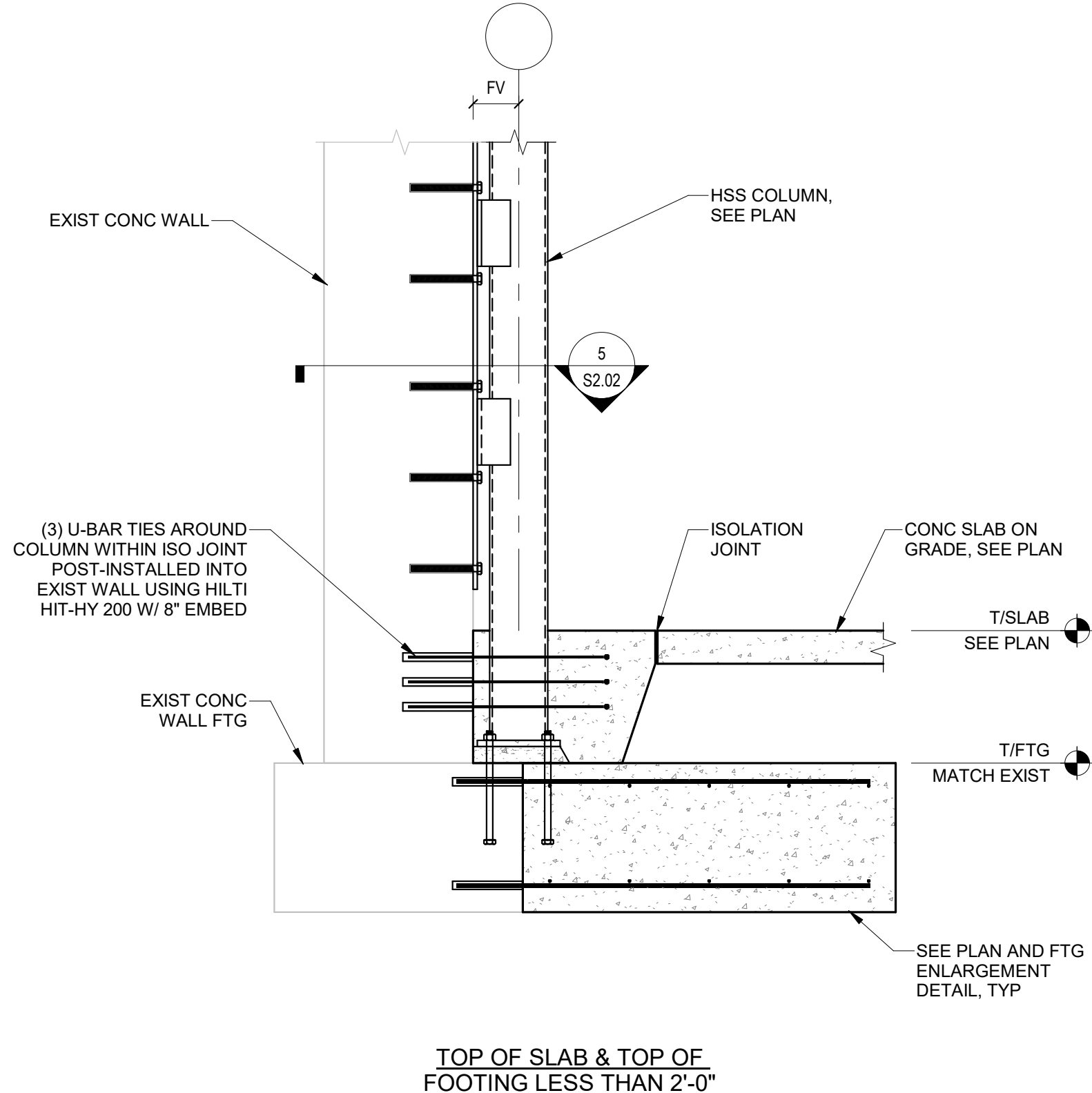
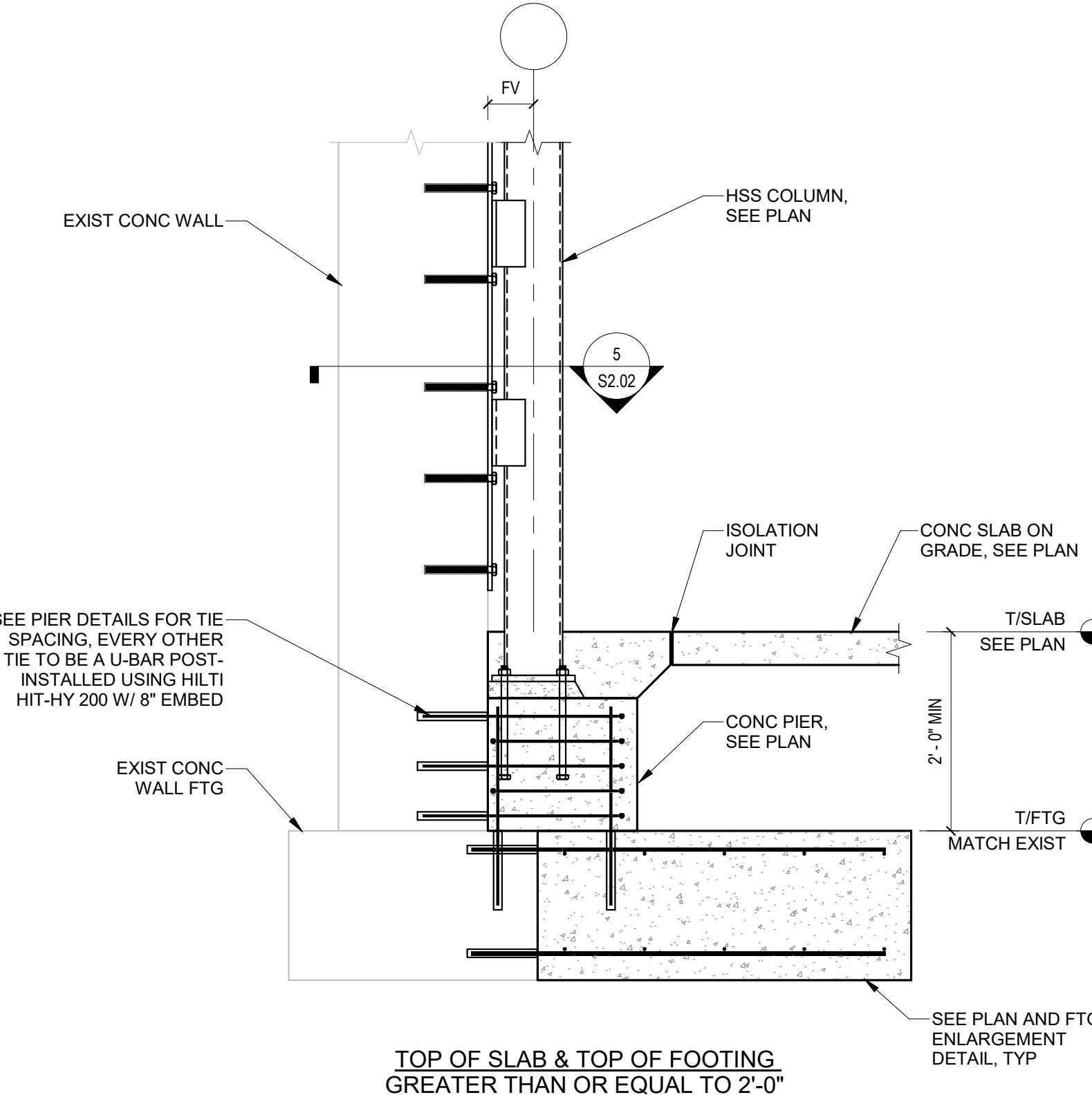


3 TYPICAL CONCRETE PIER DETAIL AND SCHEDULE

SCALE: 3/4" = 1'-0"
BP REF [S2215]

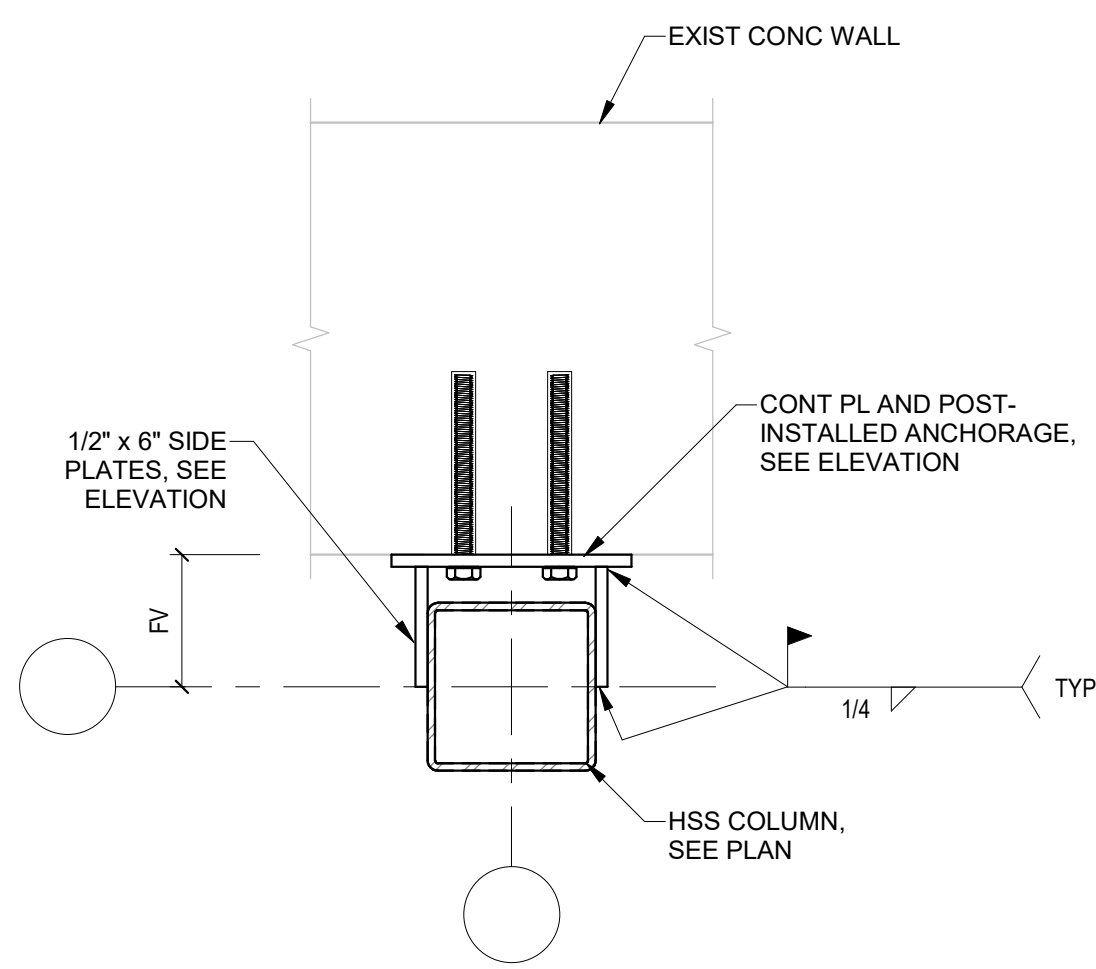
2 BASE PLATE SCHEDULE

SCALE: 3/4" = 1'-0"
BP REF [S2210]



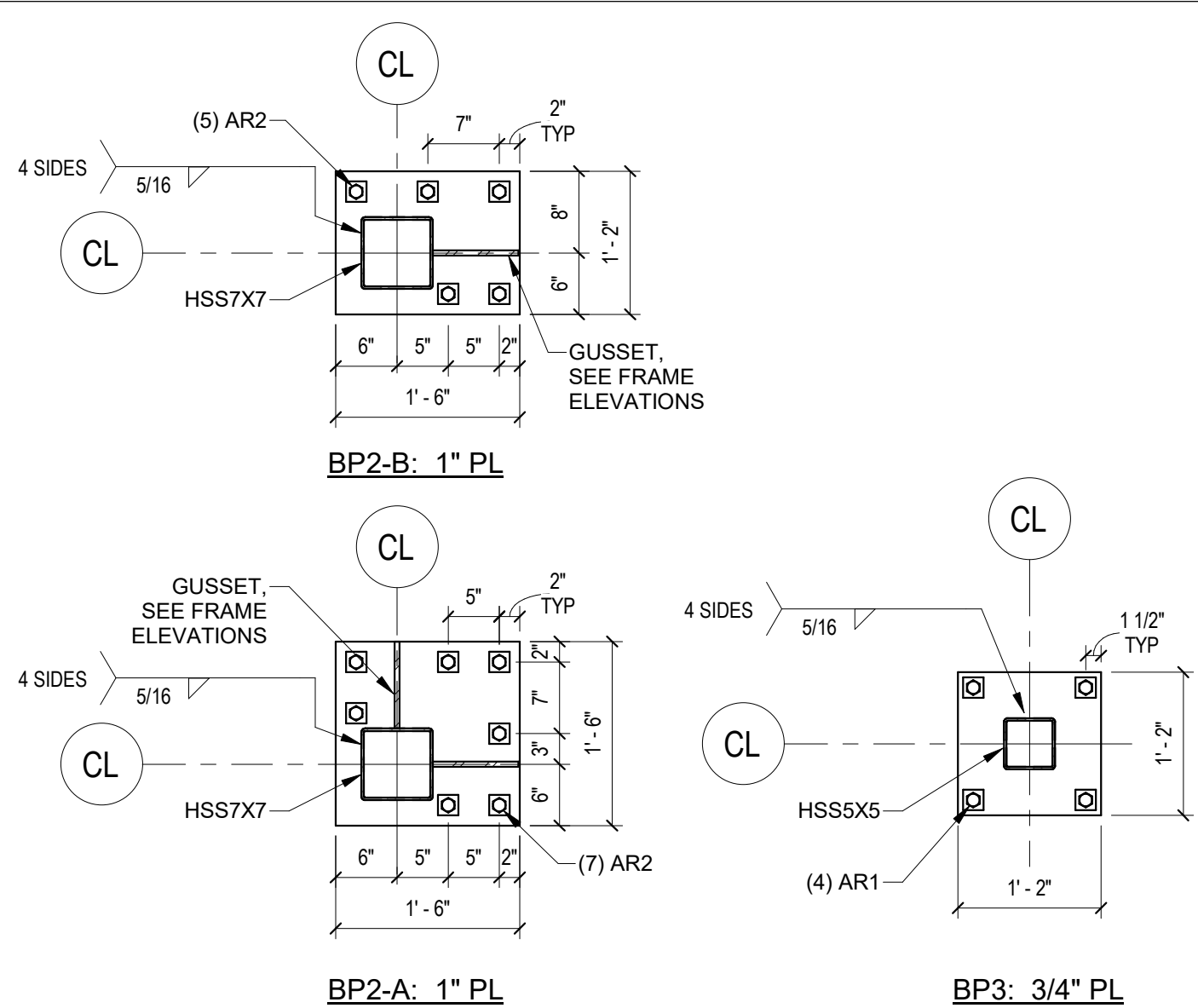
4 SECTION

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



5 SECTION

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

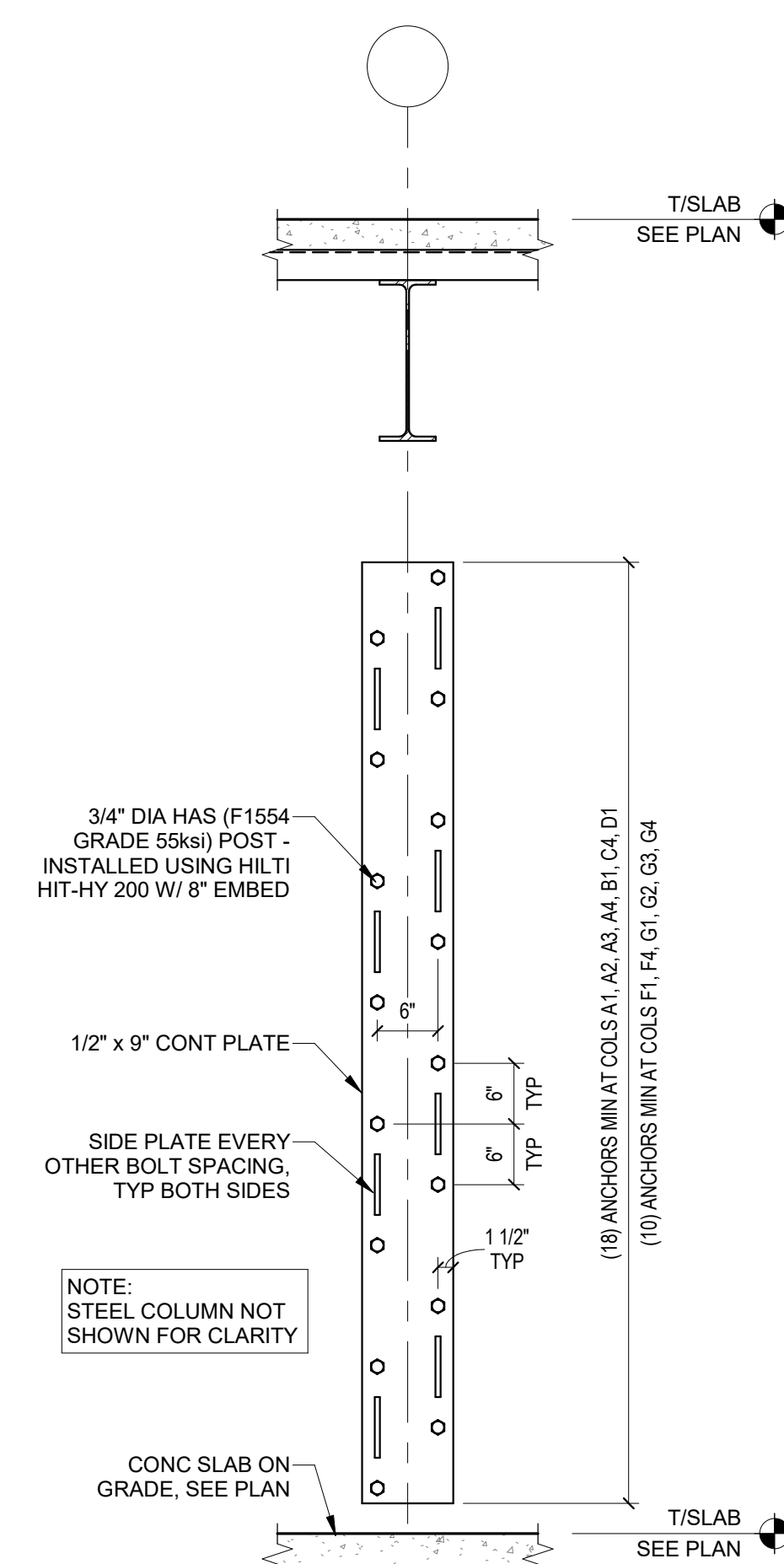


BP2-B: 1" PL

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

BP2-A: 1" PL

BP3: 3/4" PL



6 SECTION

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

CANTON POLICE STATION RENO

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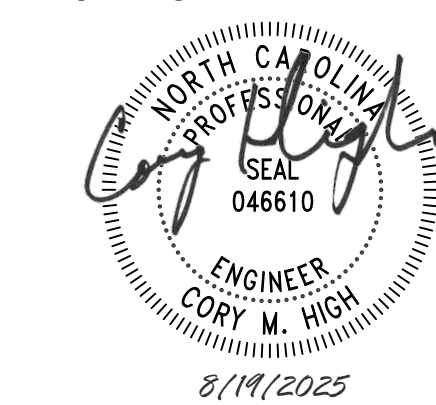
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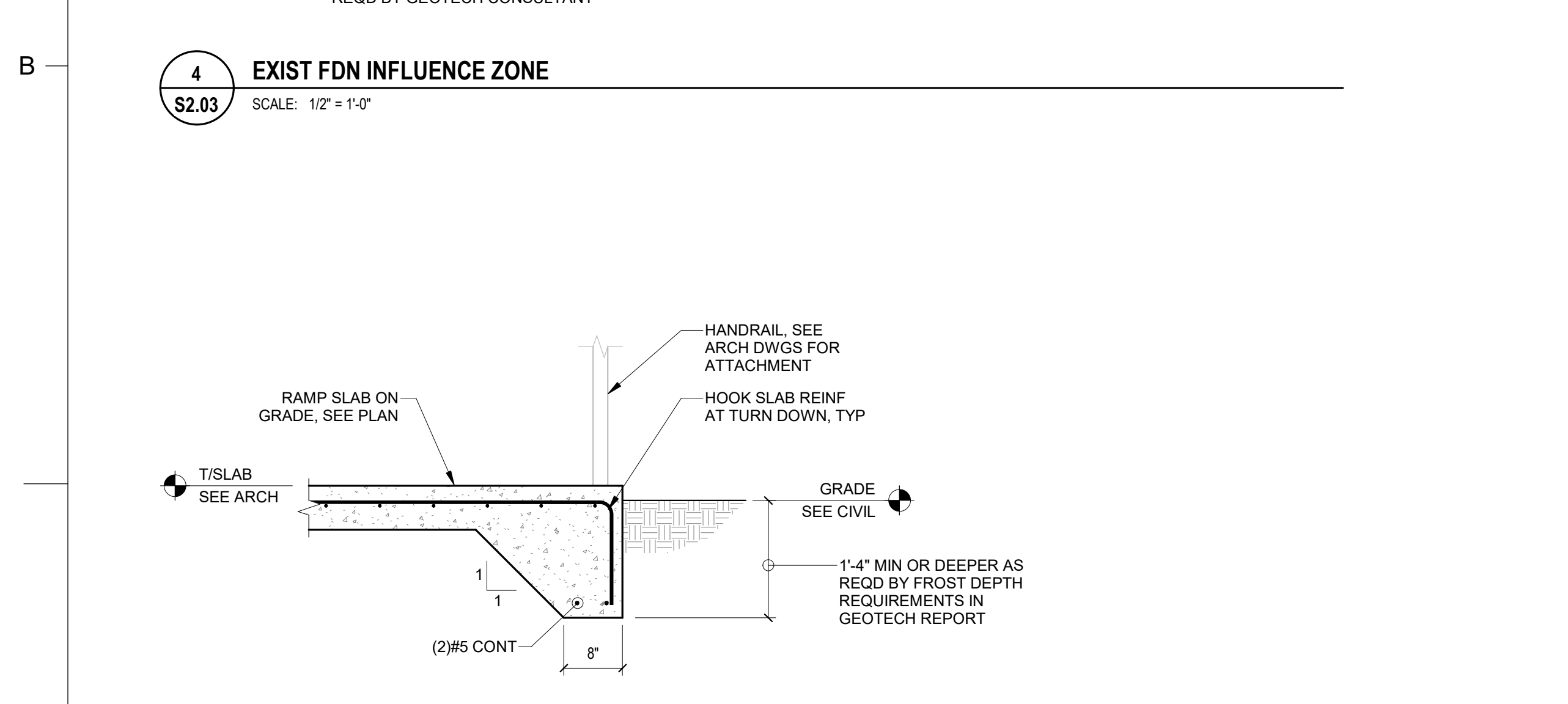
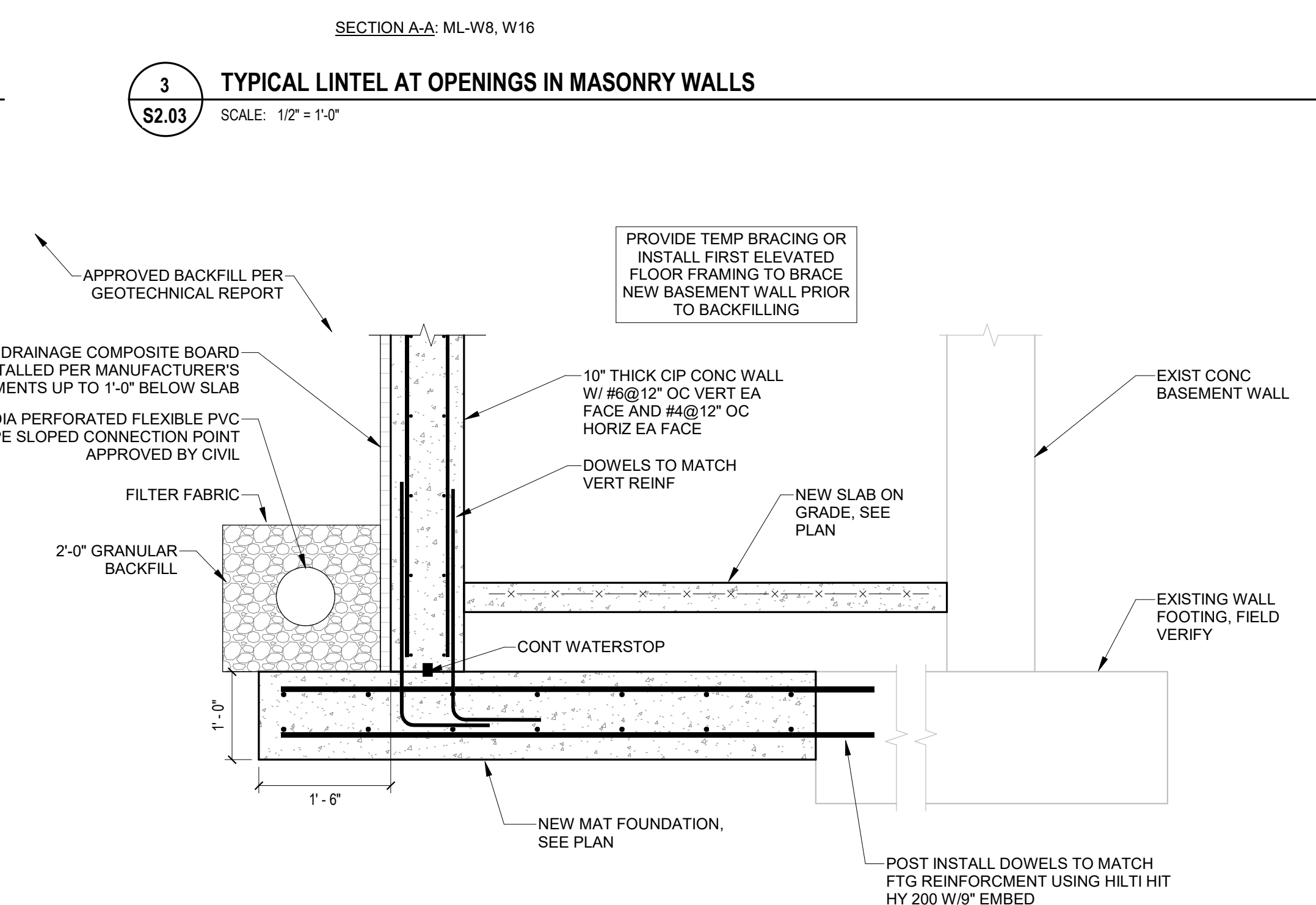
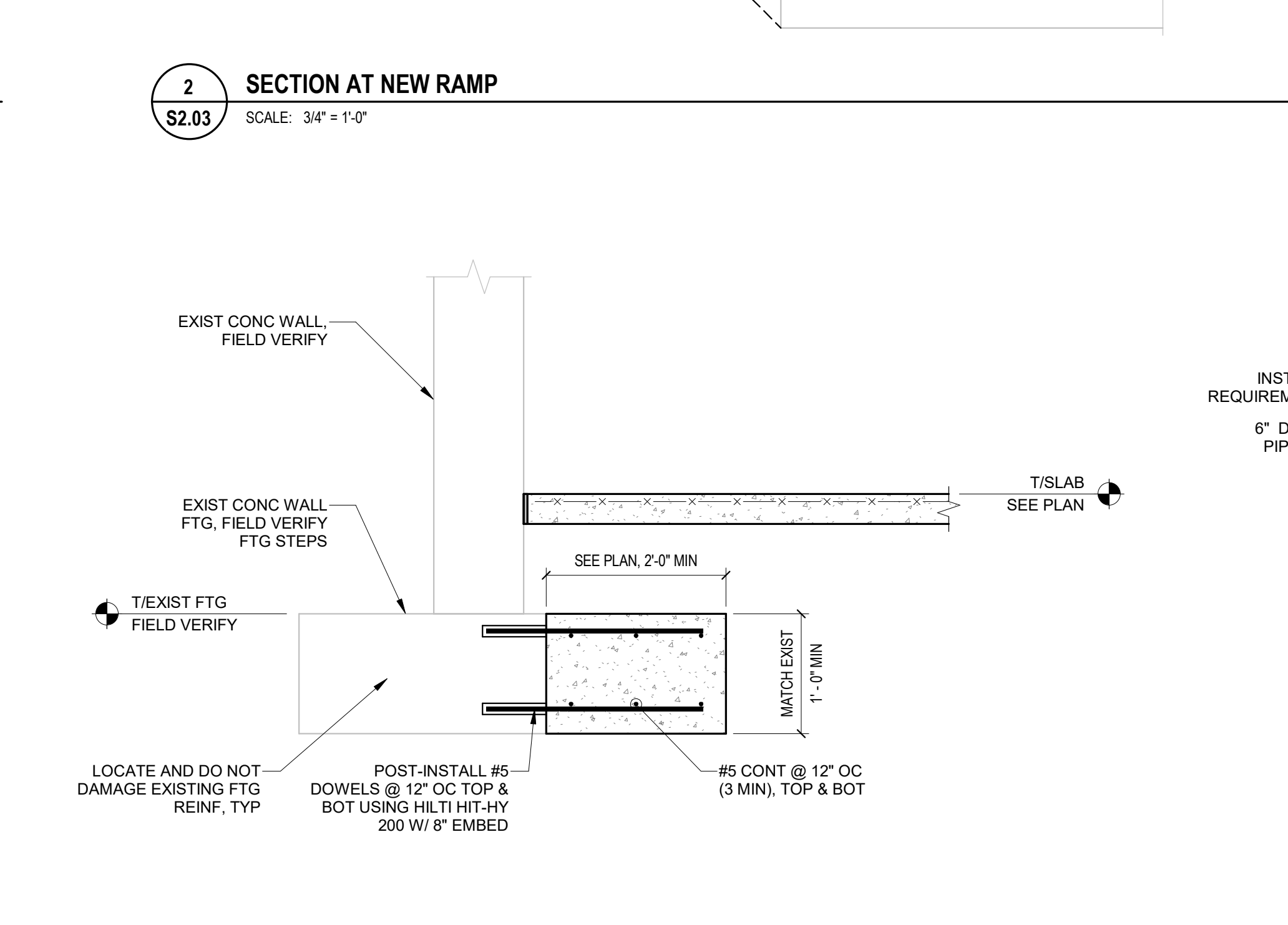
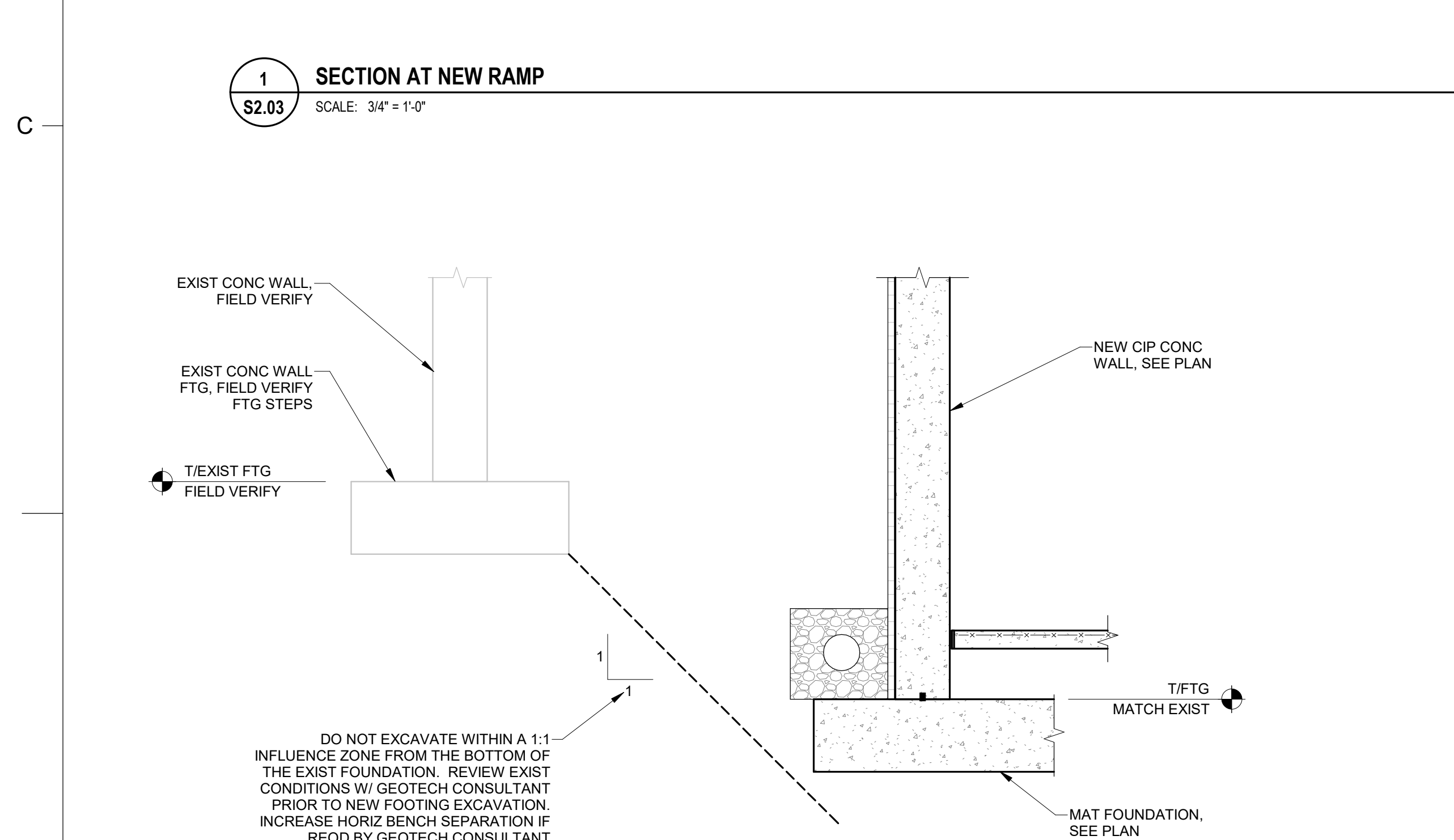
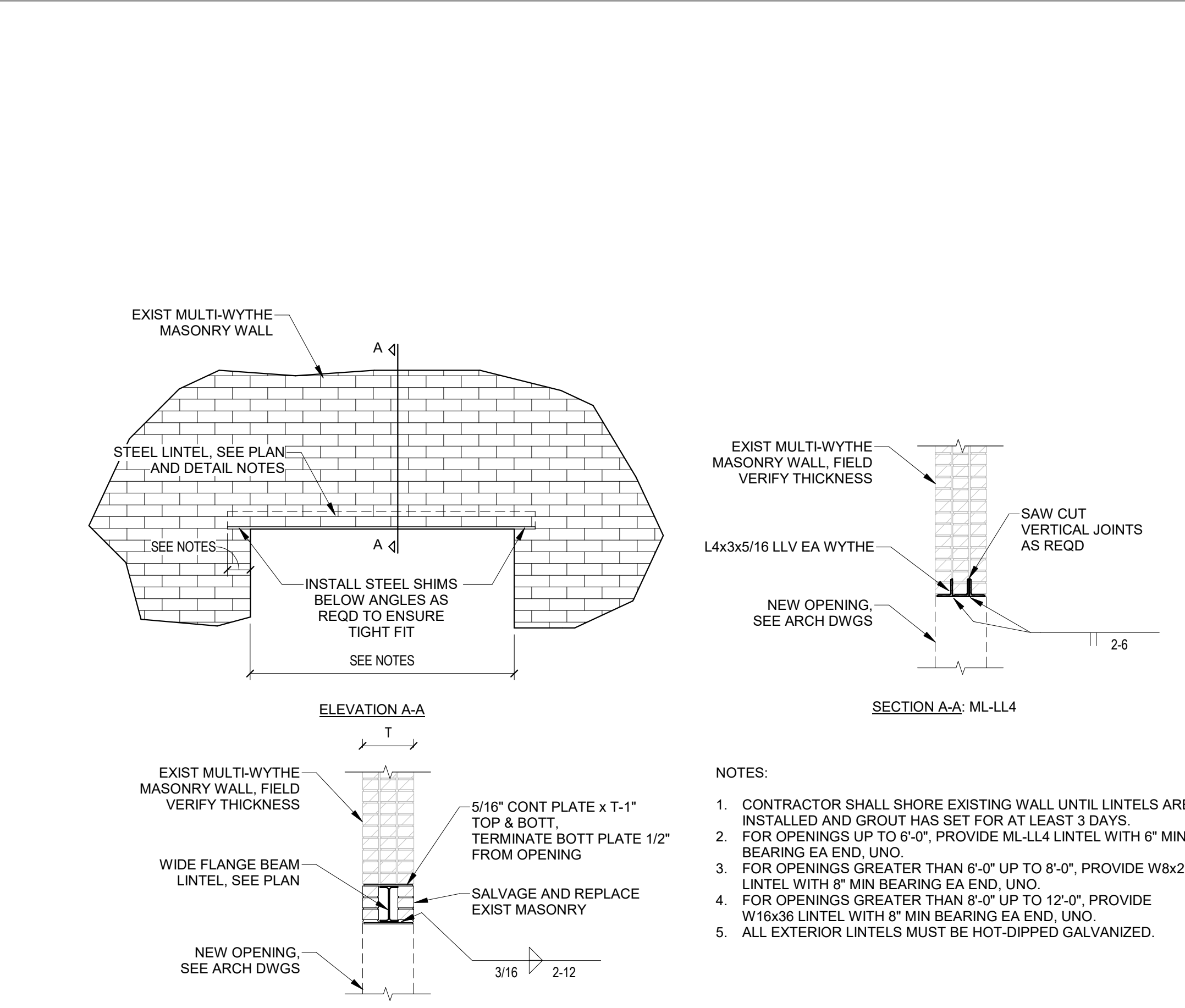
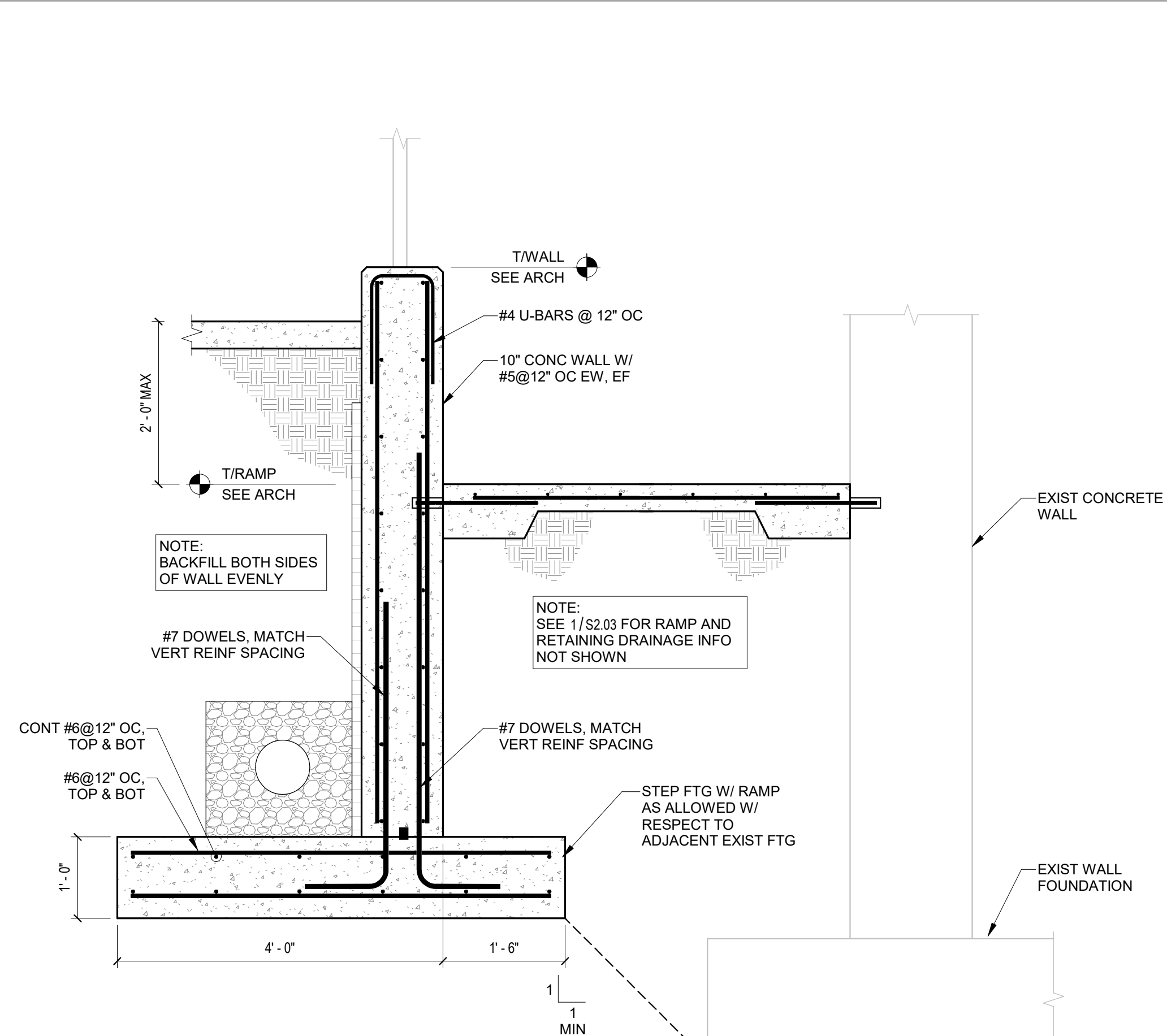
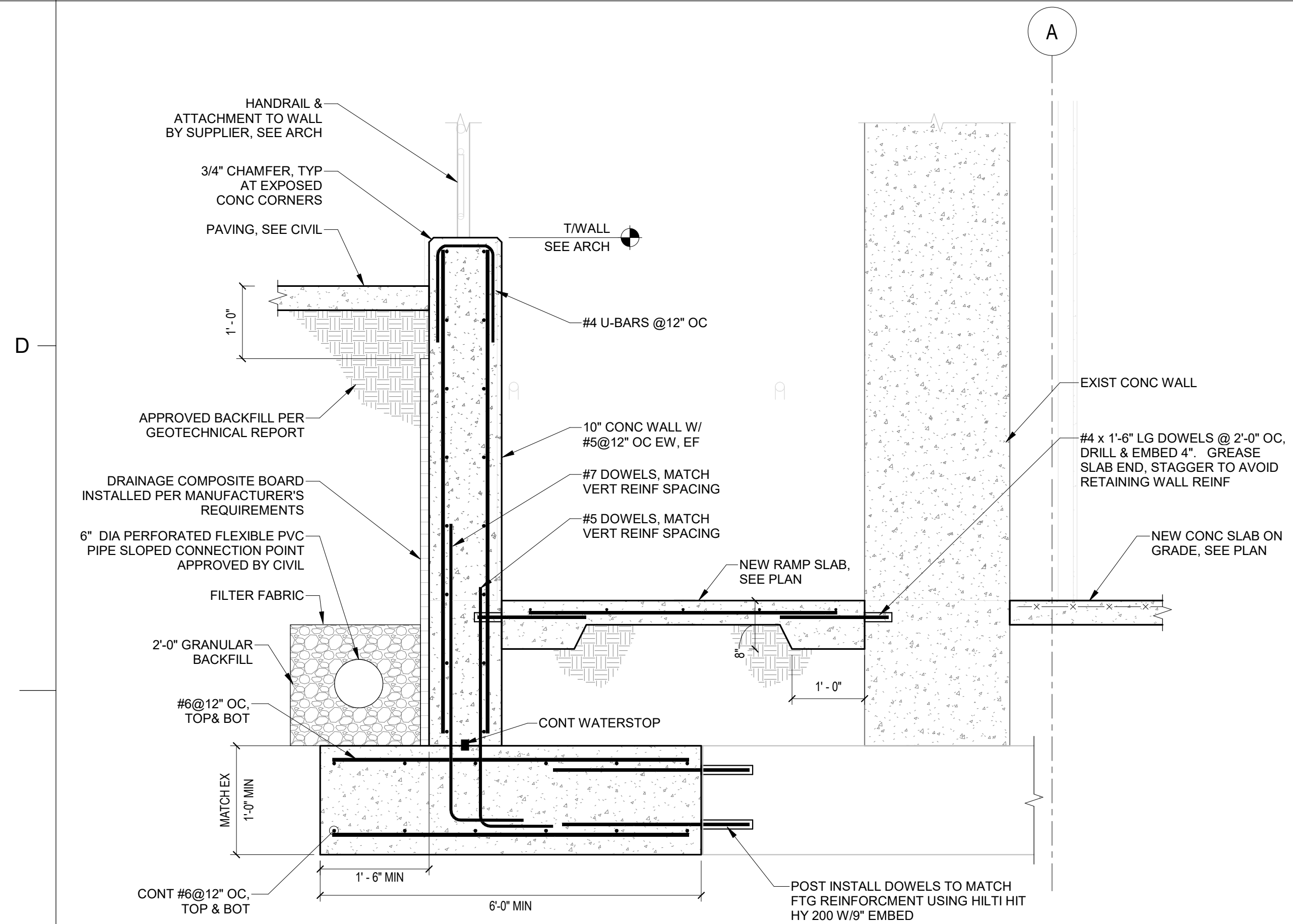
Package: CONSTRUCTION DOCUMENTS

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TYPICAL
FOUNDATION
DETAILS

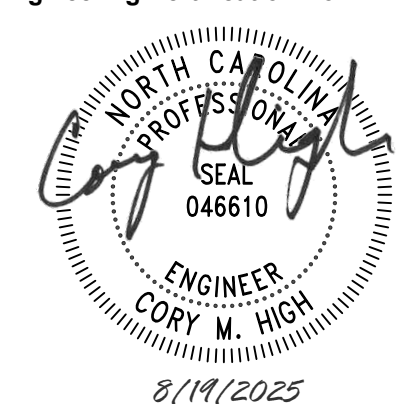
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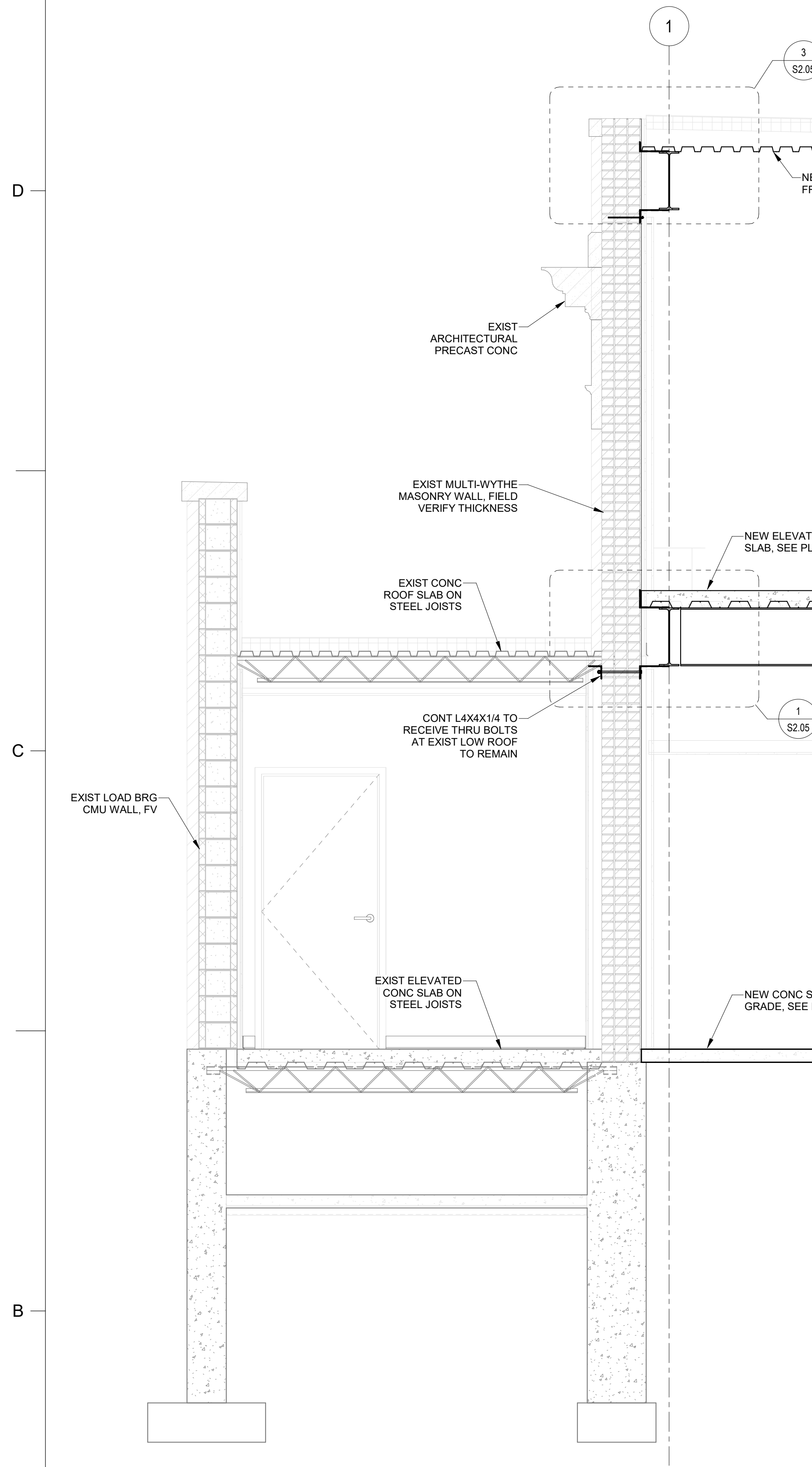


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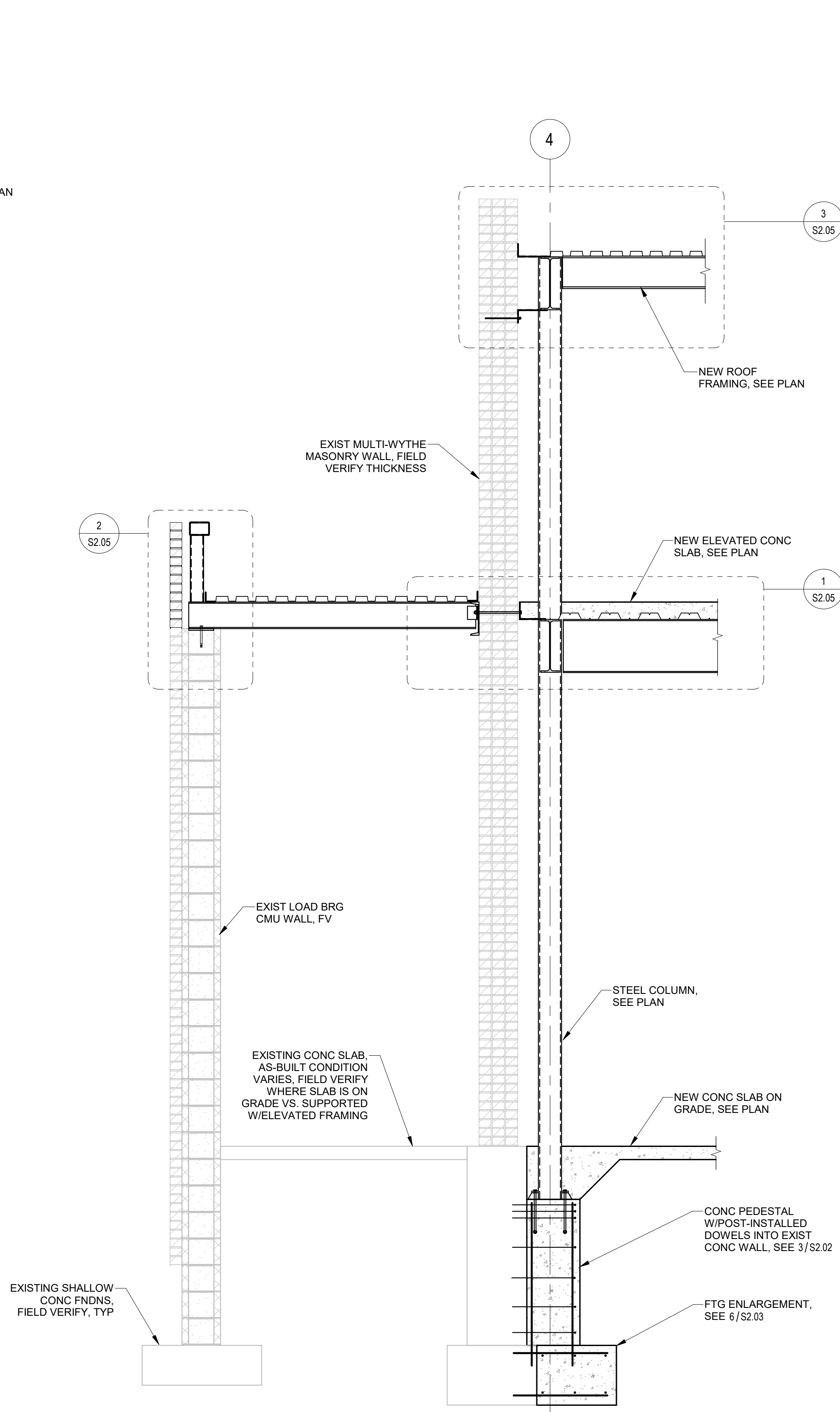
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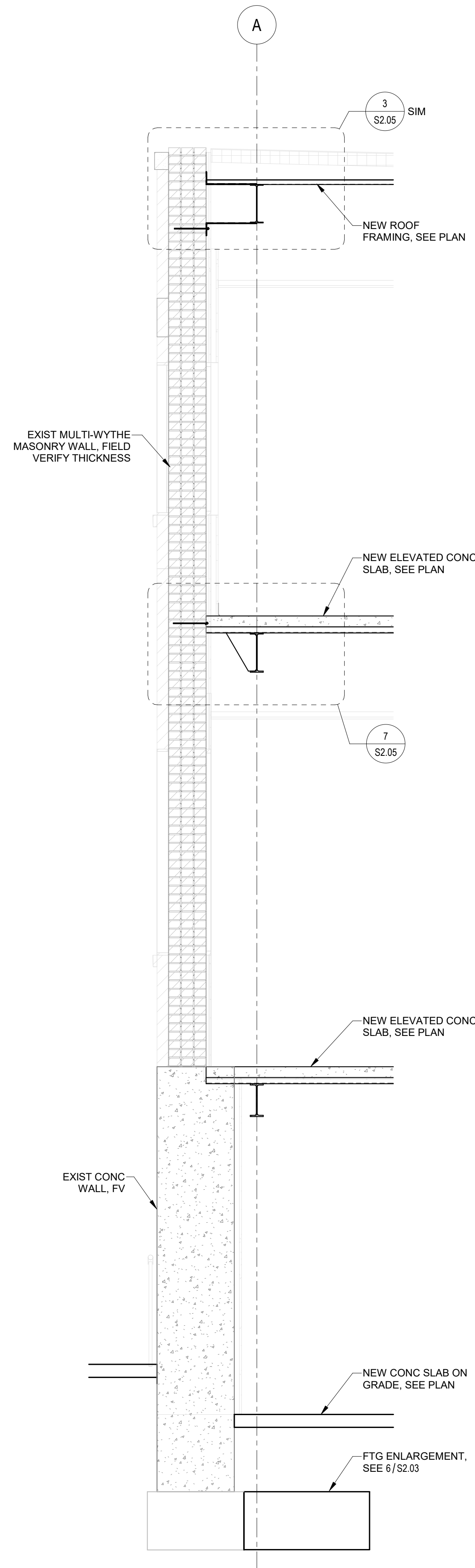
SECTIONS AND DETAILS
S2.03



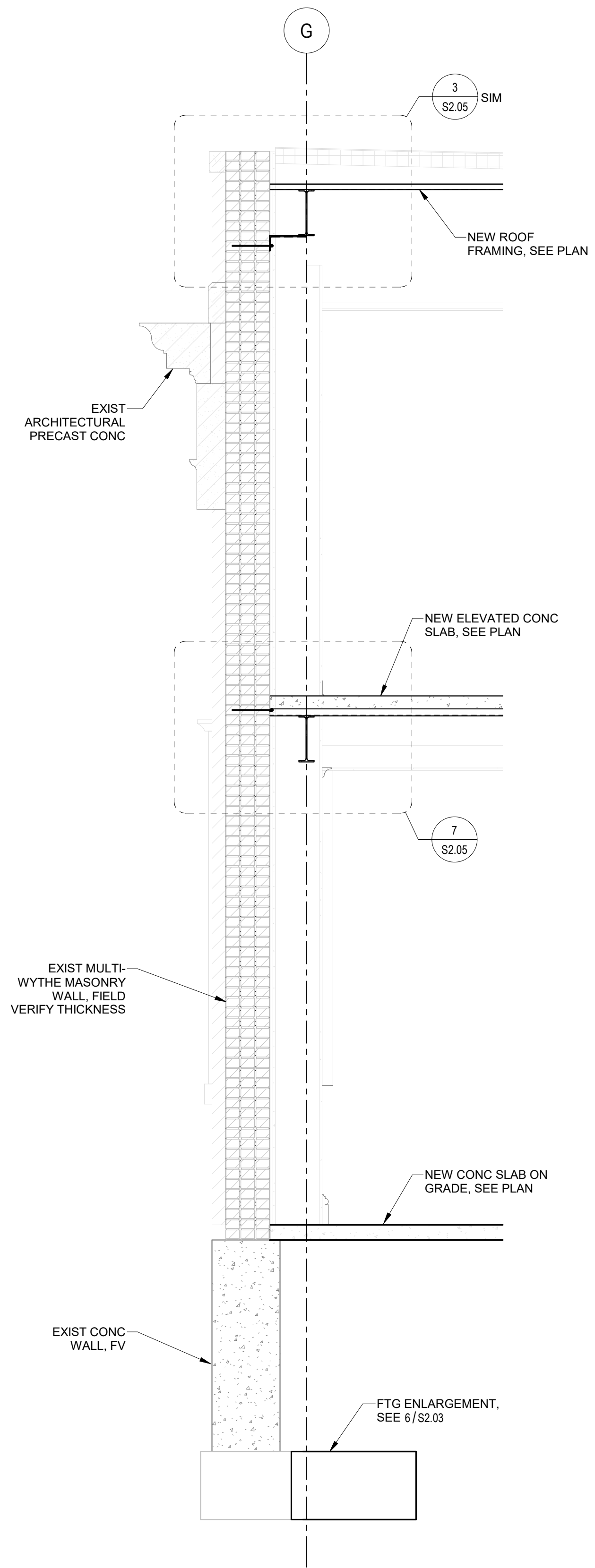
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S2.04
WALL SECTION AT GRID 1
SCALE: 1/2" = 1'-0"



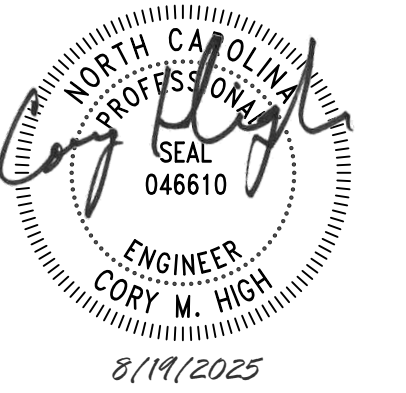
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S2.04
WALL SECTION AT GRID 4
SCALE: 1/2" = 1'-0"



3
S2.04
WALL SECTION AT GRID A
SCALE: 1/2" = 1'-0"



4
S2.04
WALL SECTION AT GRID G
SCALE: 1/2" = 1'-0"



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WALL SECTIONS

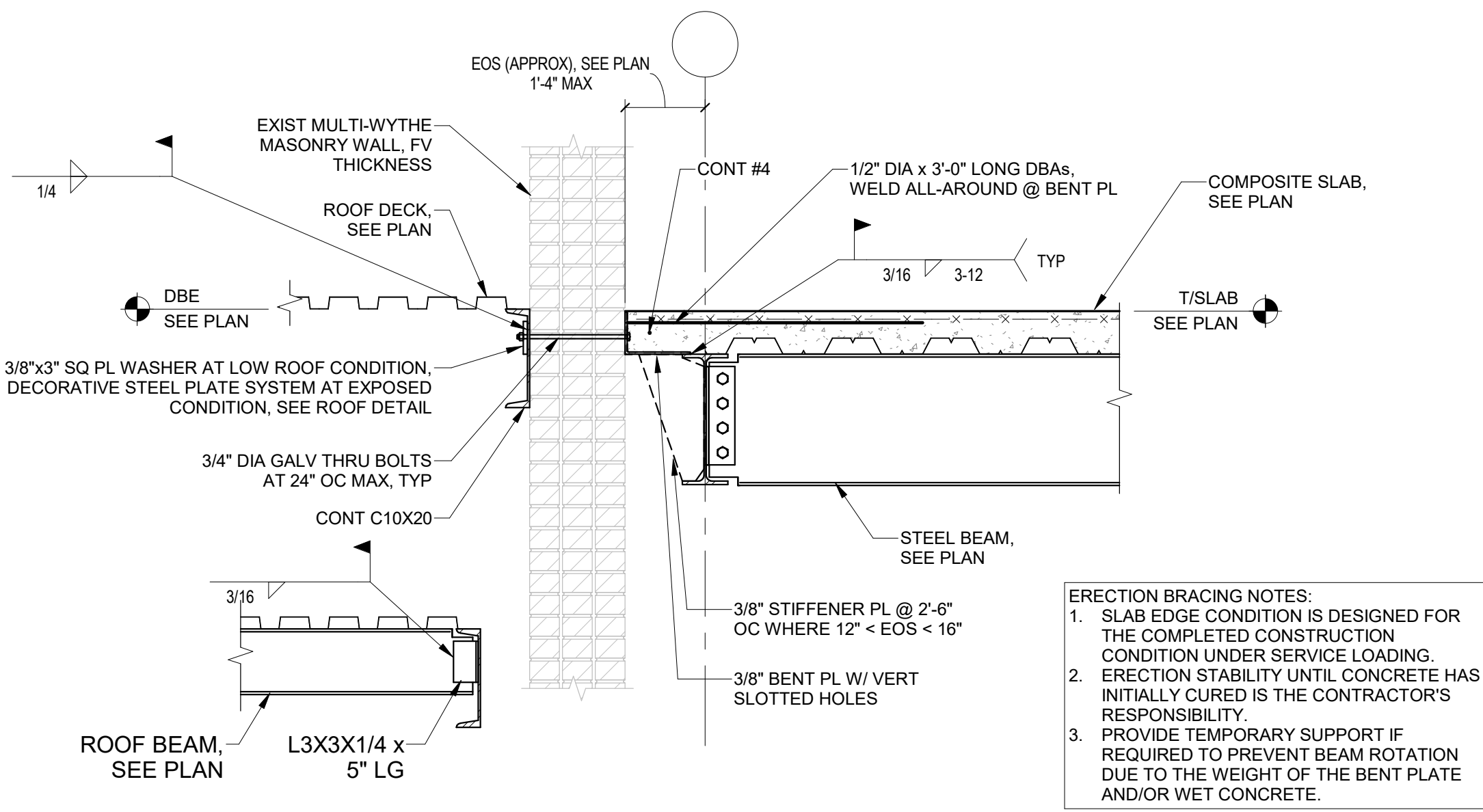
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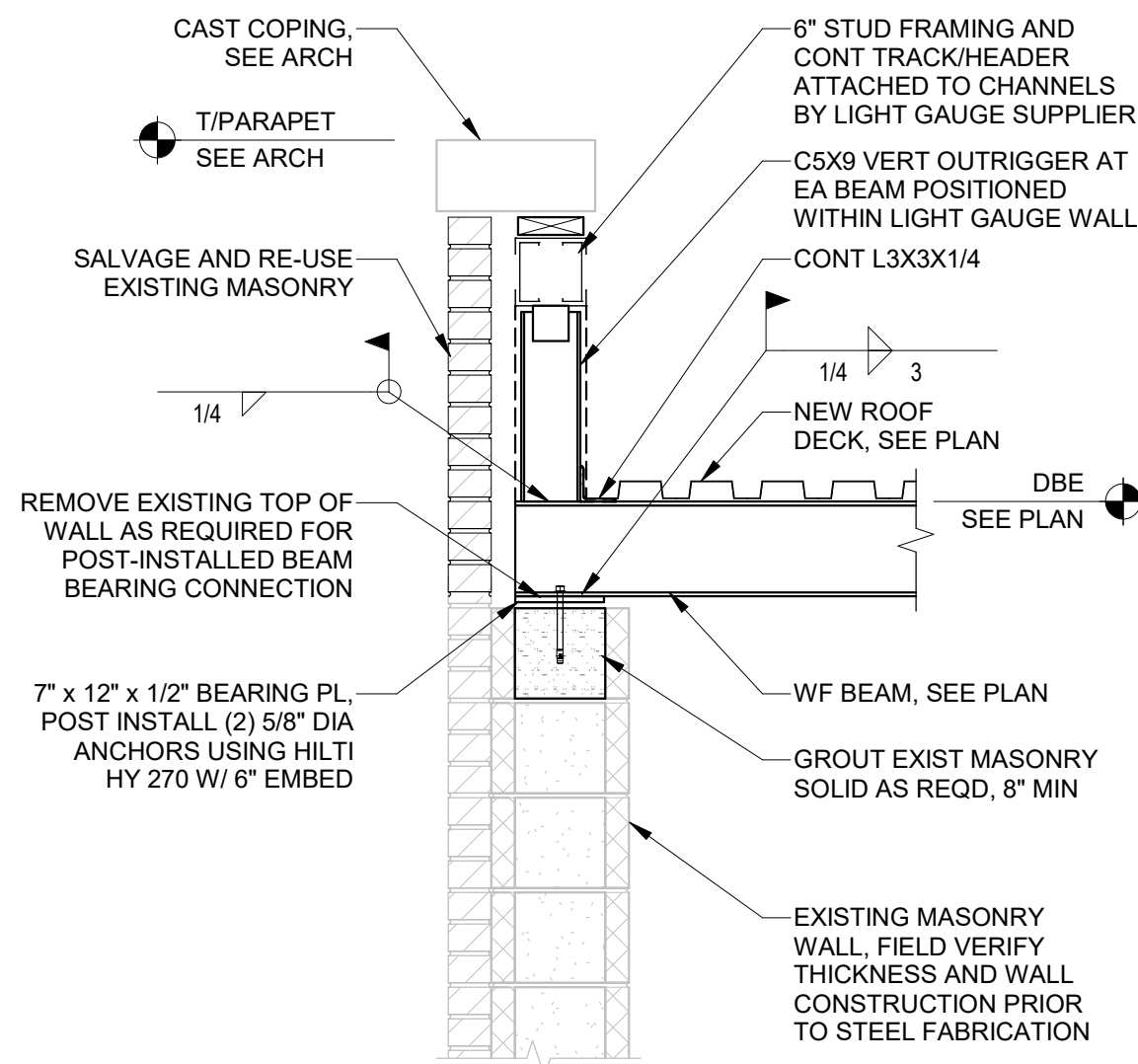
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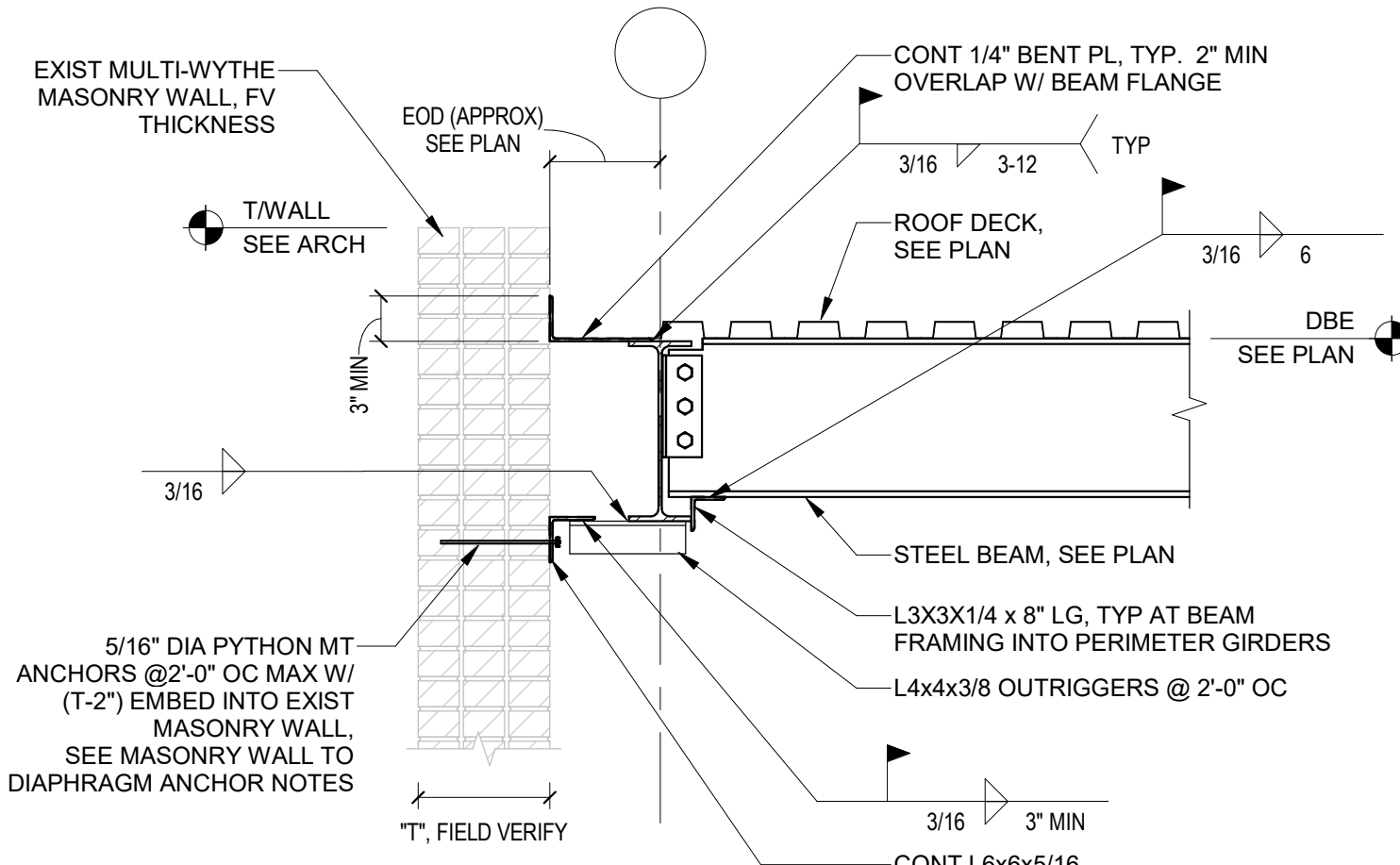
A



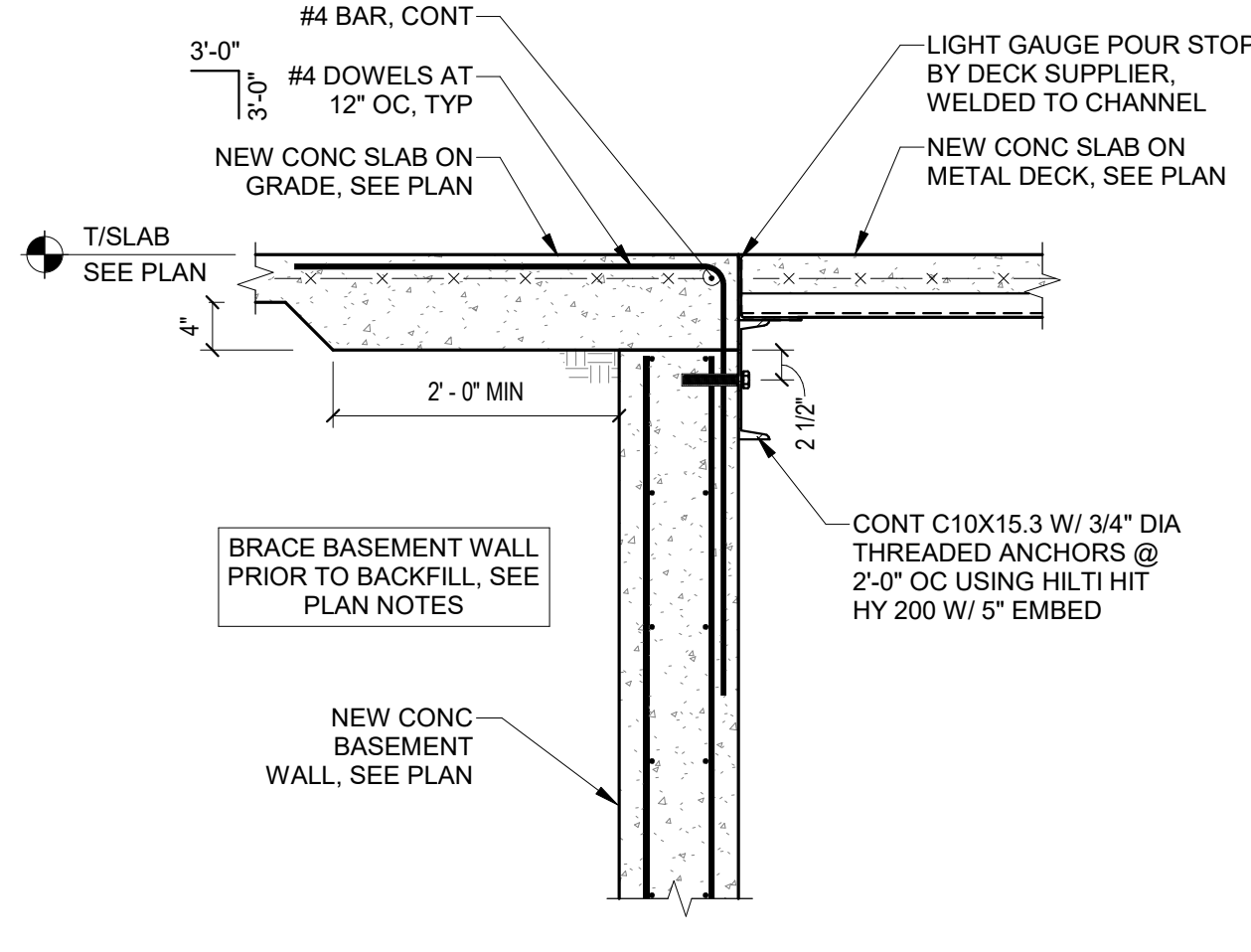
1 TYP SECTION AT FLOOR CONNX TO EXIST EXT WALL
SCALE: 3/4" = 1'-0"



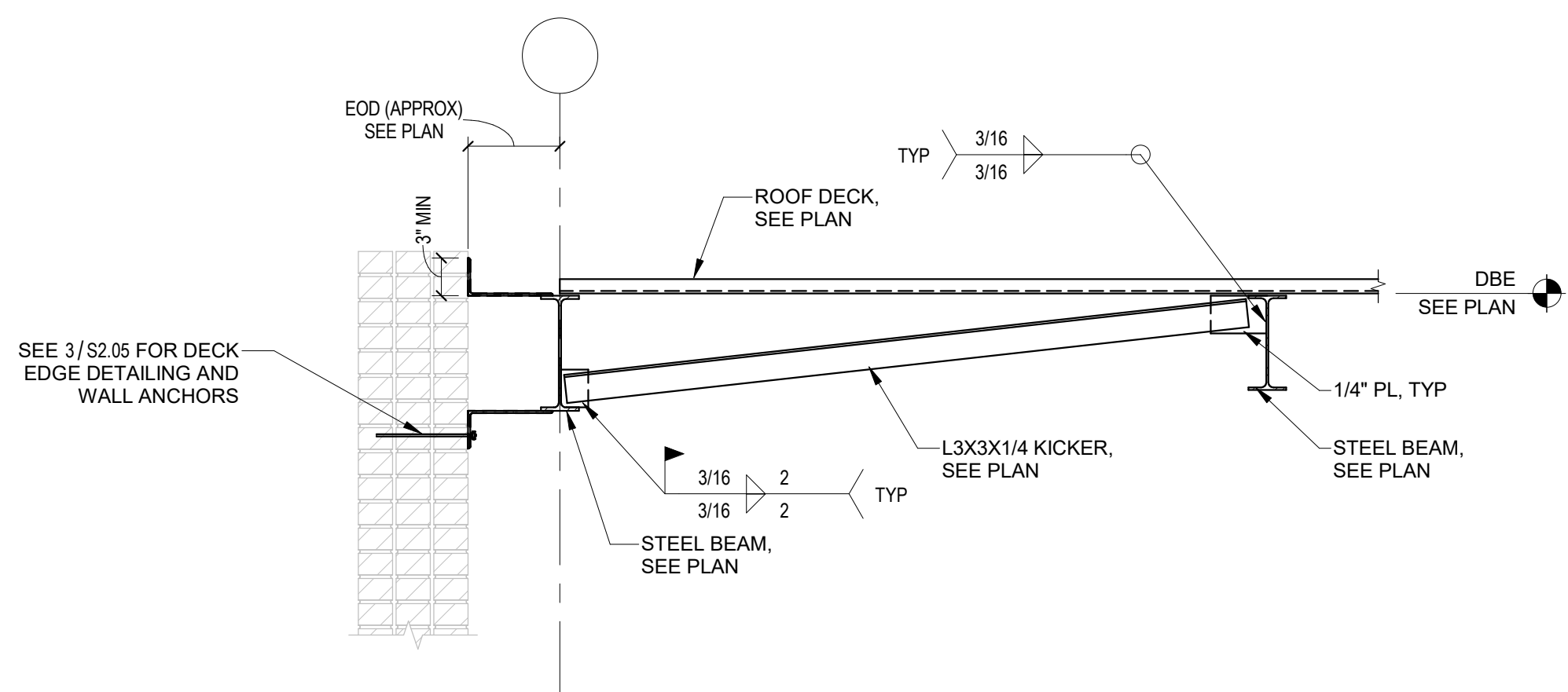
2 SECTION AT ROOF CONNX TO EXIST EXT CMU WALL
SCALE: 3/4" = 1'-0"



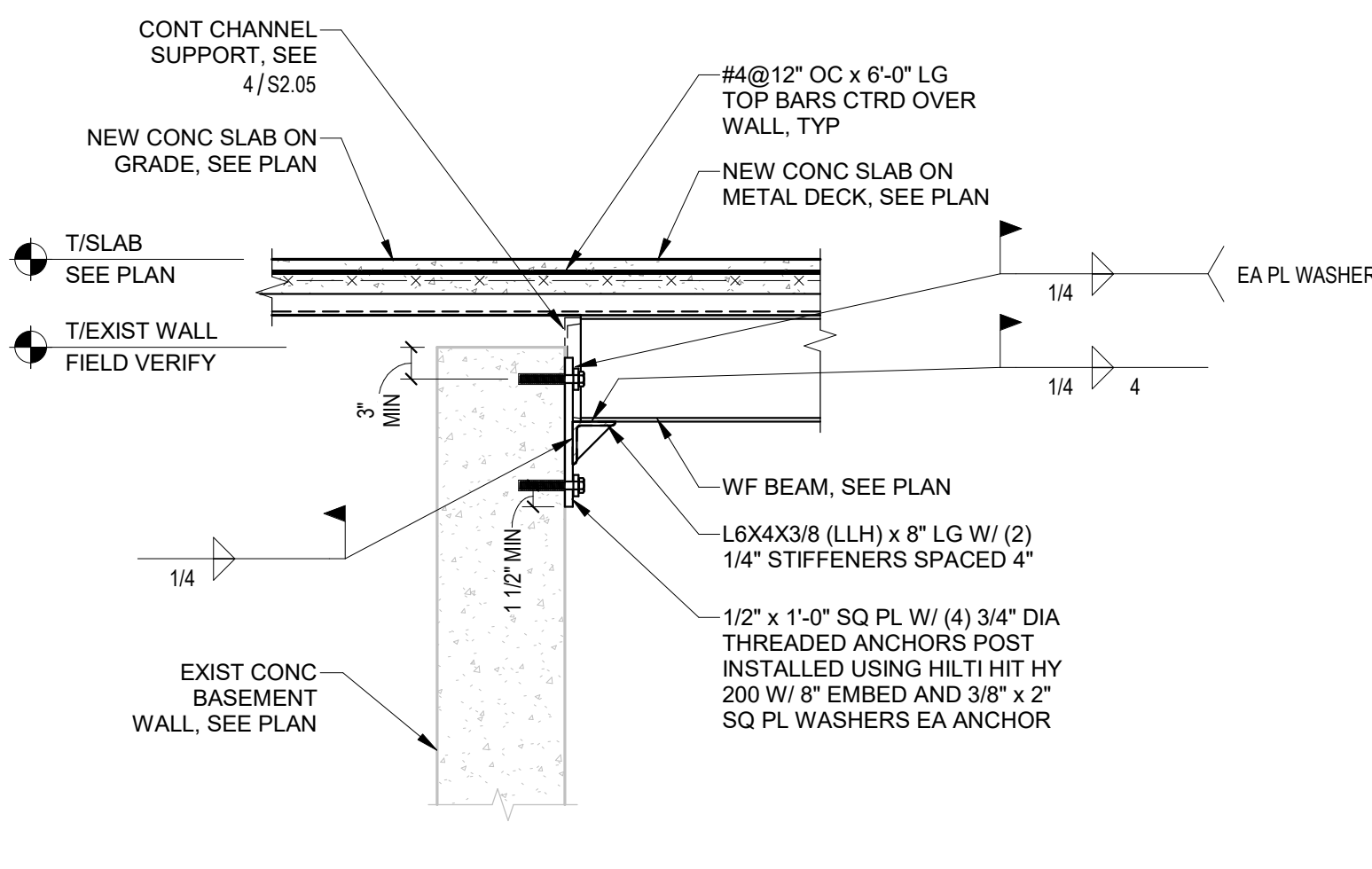
3 SECTION AT ROOF CONNX TO EXIST EXT WALL
SCALE: 3/4" = 1'-0"



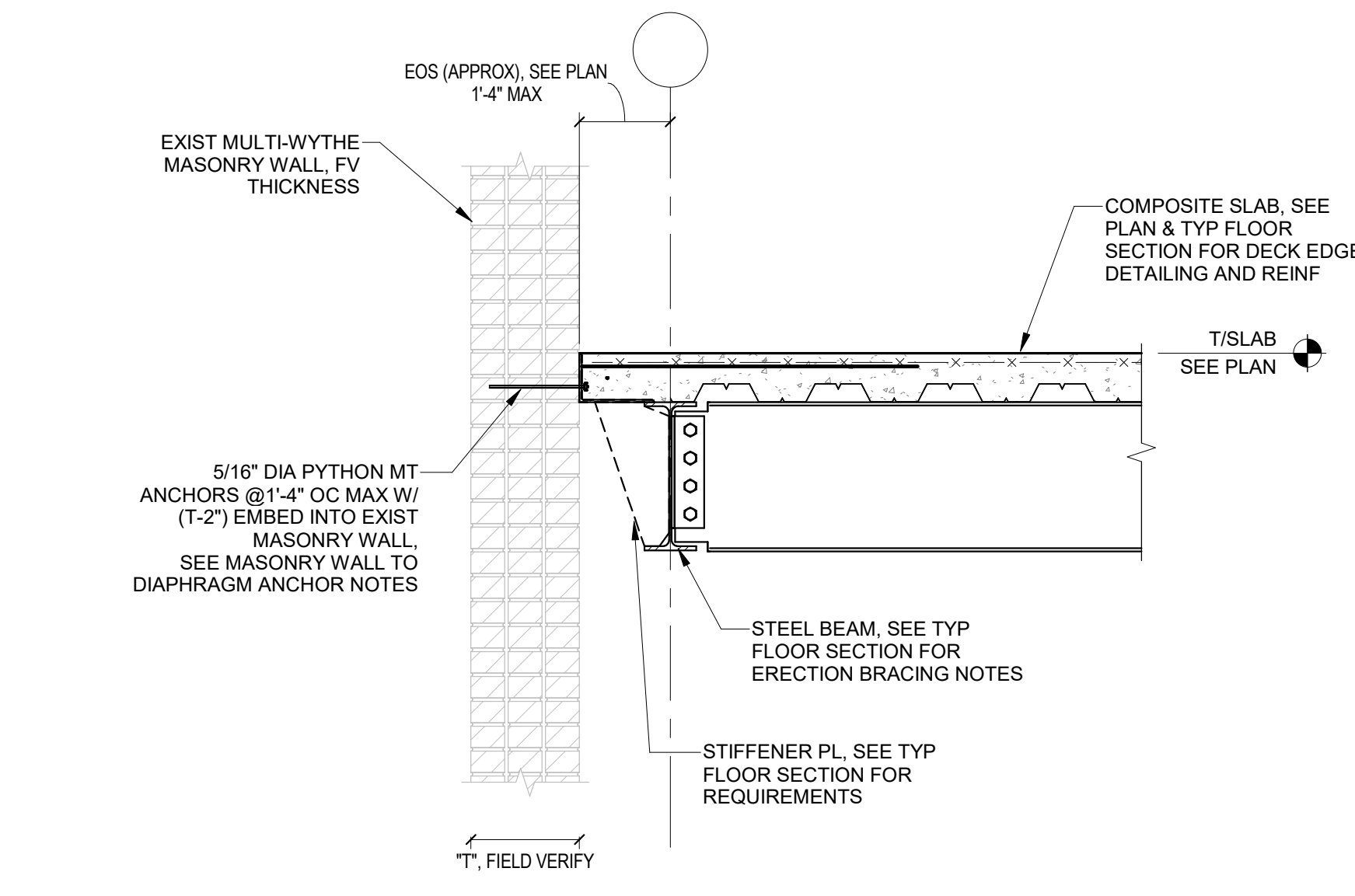
4 SLAB CONNX TO NEW BASEMENT WALL
SCALE: 3/4" = 1'-0"



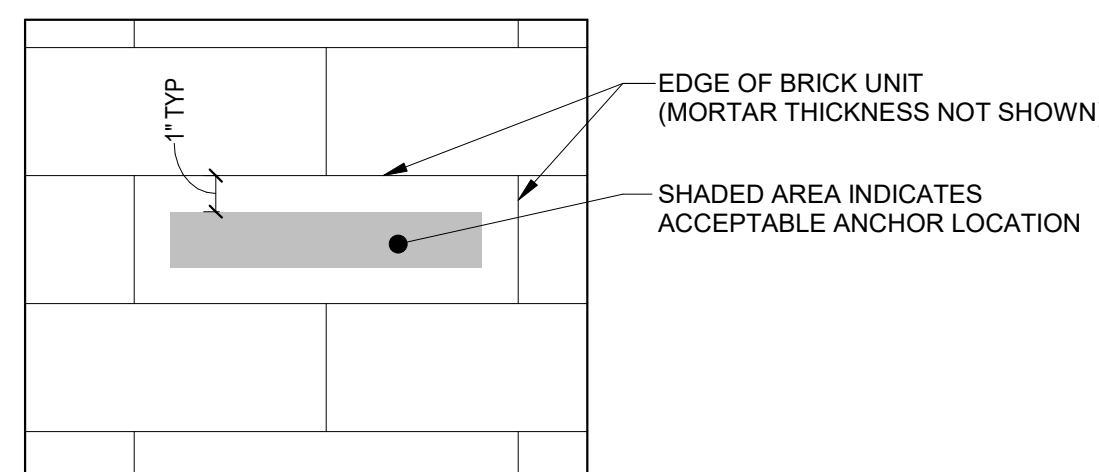
5 TYPICAL BOTTOM FLANGE BEAM BRACING
SCALE: 3/4" = 1'-0"



6 WF BEAM CONNX TO EXIST BASEMENT WALL
SCALE: 3/4" = 1'-0"



7 FLOOR CONNX TO FRONT/BACK EXIST EXT WALL
SCALE: 3/4" = 1'-0"

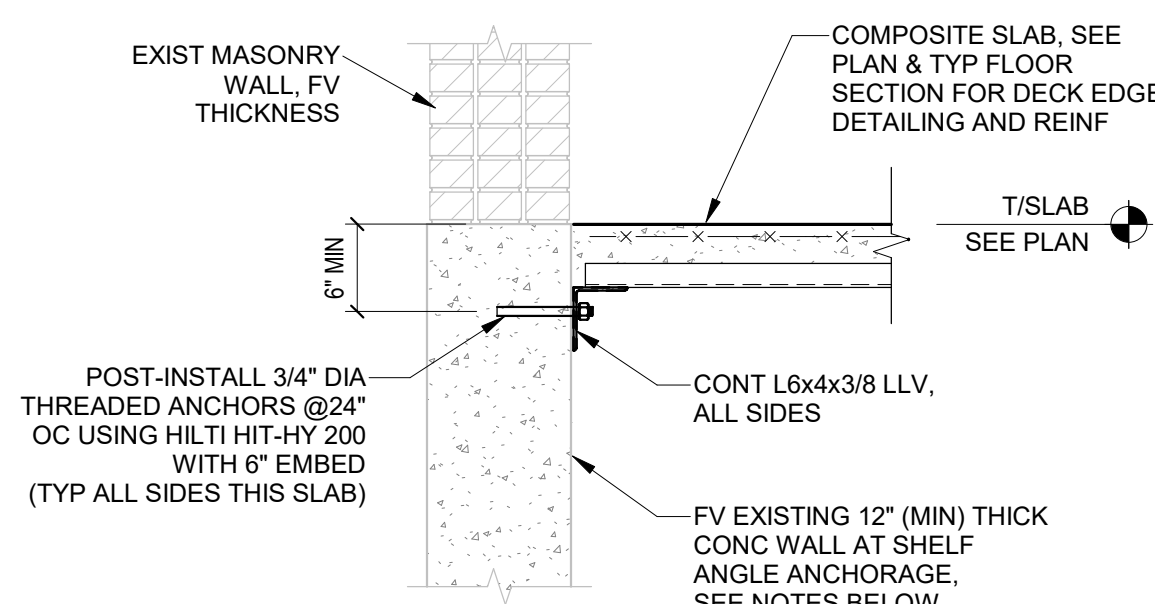


EXISTING MASONRY WALL ELEVATION (INSIDE FACE)

- NOTES:
- FIELD VERIFY WALL THICKNESS PRIOR TO INSTALLATION. NOTE THAT WALL THICKNESS MAY VARY DEPENDING ON LOCATION AND LEVEL WITHIN THE BUILDING.
 - PRE-DRILL AND INSTALL ANCHORS PER THE MANUFACTURER'S REQUIREMENTS USING THE REQUIRED MASONRY DRILL BIT. PER THE MANUFACTURER'S INSTRUCTIONS, USE ONLY ROTARY DRILLING FOR PRE-DRILLING THE HOLE AND TIGHTENING THE SCREW ANCHORS.
 - FIELD TESTING IS REQUIRED FOR VERIFICATION OF IN-PLACE MORTAR SHEAR STRENGTH OF THE EXISTING CONSTRUCTION IN ACCORDANCE WITH THE IBC, SECTION A106.2.3. A MINIMUM 30 PSI MORTAR STRENGTH IS REQUIRED. TEST PROCEDURE SHALL BE AS REQUIRED BY THE MANUFACTURER AND TEST REPORTS SHALL INCLUDE:
 - TEST LOCATIONS
 - BRICK/MORTAR CONDITION
 - UNREINFORCED MASONRY SCREW ANCHOR MOVEMENT/ELONGATION
 - EMBEDMENT DEPTH AND MASONRY WALL THICKNESS
 - APPLIED LOAD, LOADING PROCEDURE, LOAD INCREMENTS, AND RATE OF LOADING.
 - SPECIAL INSPECTION AND FIELD DIRECT-TENSION TESTS ARE REQUIRED AND MUST BE CONDUCTED IN ACCORDANCE WITH SECTION A107.4 AND A107.5.1 OF THE IBC, RESPECTIVELY, WITH MODIFICATION TO SECTION A107.5.1 OF THE IBC AS FOLLOWS:

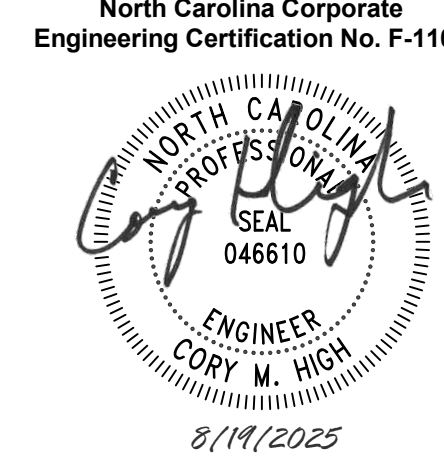
THE TEST APPARATUS MUST BE SUPPORTED BY THE URM ELEMENT. URM SCREW ANCHORS MUST BE SUBJECT TO A DIRECT TENSION LOAD OF NOT LESS THAN 2.5 TIMES THE ALLOWABLE DESIGN LOAD FOR 5 MINUTES WITHOUT NOTICEABLE DEFORMATION OR DAMAGE TO THE URM SCREW ANCHORS.

8 MASONRY WALL-TO-DIAPHRAGM ANCHOR NOTES
SCALE: 3" = 1'-0"



9 EDGE OF SLAB SUPPORT ANGLE
SCALE: 3/4" = 1'-0"

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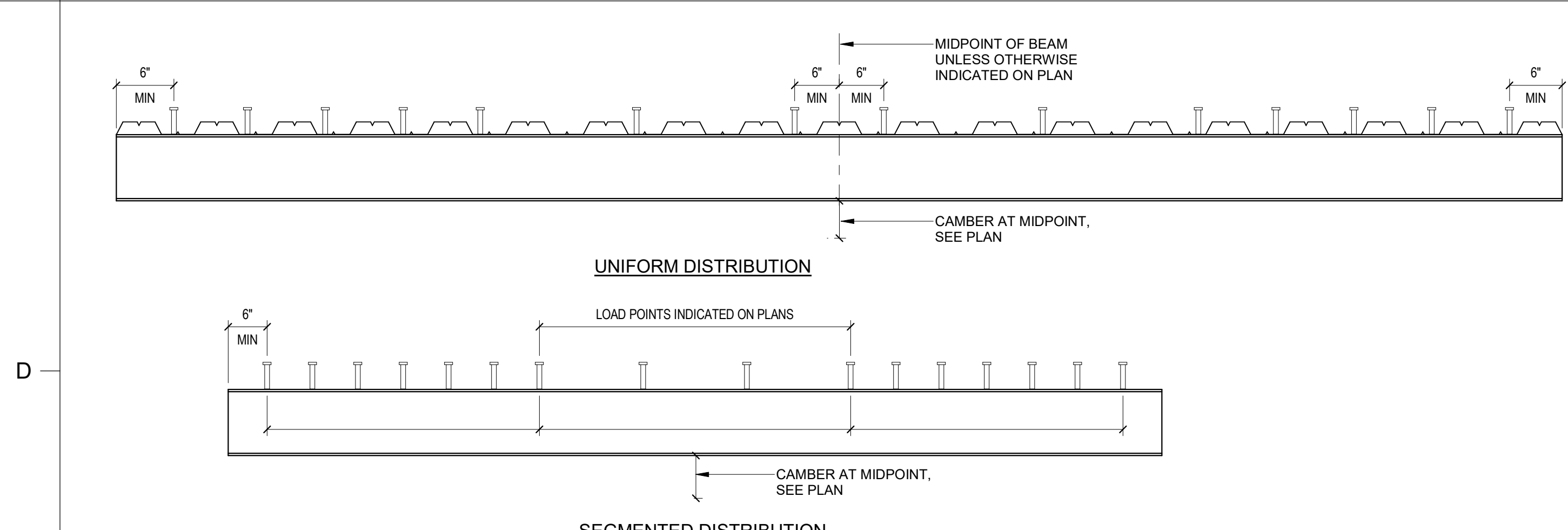
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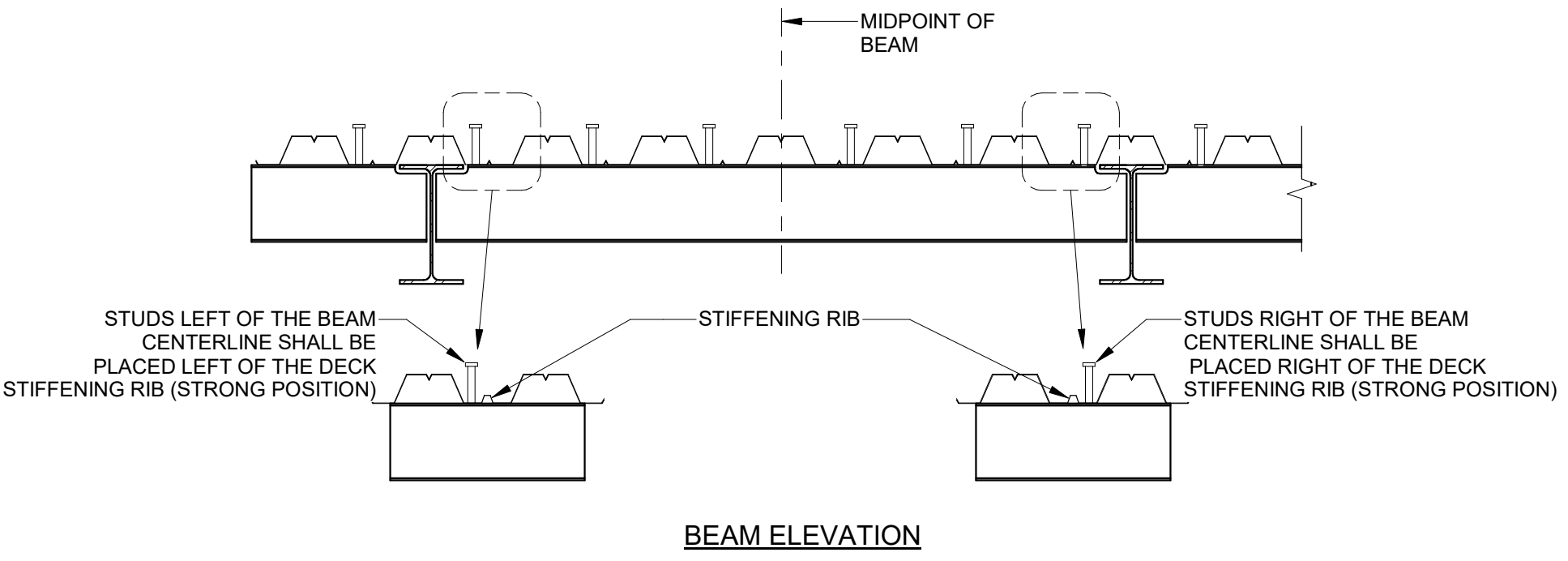
Date: AUGUST 19, 2025

SECTIONS AND DETAILS

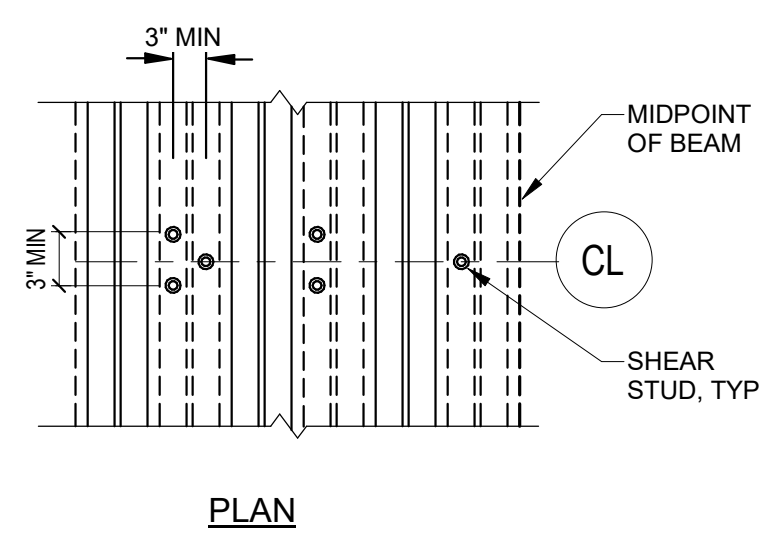
S2.05



- NOTES:**
- SEE PLAN FOR BEAM SIZE AND STUD COUNT. IF STUD COUNT IS GIVEN AS A SINGLE NUMBER, UNIFORM DISTRIBUTION APPLIES. IF STUD COUNT IS GIVEN AS MULTIPLE NUMBERS, SEGMENTED DISTRIBUTION BETWEEN LOAD POINTS APPLIES.
 - MAXIMUM STUD SPACING IS 24". PROVIDE ADDITIONAL STUDS AS REQUIRED TO MAINTAIN MAXIMUM SPACING.
 - COORDINATE STUD LAYOUT WITH DECK PROFILE.
 - DISTRIBUTE STUDS AND VERIFY LAYOUT PRIOR TO WELDING.
 - FOR UNIFORM DISTRIBUTION AND BEAMS PERPENDICULAR TO DECK SPAN:
A. ONE HALF OF STUD COUNT IS ASSIGNED TO EACH SIDE OF BEAM MIDPOINT.
B. WORKING FROM THE BEAM END TO THE MIDPOINT, DISTRIBUTE (1) STUD TO EVERY OTHER DECK FLUTE.
C. IF STUDS REMAIN, WORK FROM THE BEAM END TO THE MIDPOINT, DISTRIBUTING (1) STUD TO EACH EMPTY DECK FLUTE.
D. IF STUDS REMAIN, WORK FROM THE BEAM END TO THE MIDPOINT, DISTRIBUTING (1) STUD TO EACH FLUTE (CREATING A DOUBLE STUD CONDITION).
E. IF STUDS REMAIN, WORK FROM THE BEAM END TO THE MIDPOINT, DISTRIBUTING (1) STUD PER FLUTE (CREATING A TRIPLE STUD CONDITION).
 - FOR UNIFORM DISTRIBUTION AND BEAMS PARALLEL TO DECK SPAN:
A. ONE HALF OF STUD COUNT IS ASSIGNED TO EACH SIDE OF BEAM MIDPOINT.
B. DISTRIBUTE STUDS WITH EQUAL SPACING (MINIMUM SPACING = 4 1/2").
C. IF STUDS REMAIN AFTER SPACING AT 4 1/2", PROVIDE DOUBLE STUDS WORKING FROM THE BEAM END TO THE MIDPOINT.
 - FOR SEGMENTED DISTRIBUTION AND BEAMS PERPENDICULAR TO DECK SPAN:
A. FOLLOW THE SAME PROCEDURE GIVEN IN NOTE 5, EXCEPT THE STUD COUNTS SHALL APPLY TO EACH SEGMENT BETWEEN LOAD POINTS.
 - FOR SEGMENTED DISTRIBUTION AND BEAMS PARALLEL TO DECK SPAN:
A. ASSIGN STUD COUNTS TO EACH BEAM SEGMENT BASED ON STUD COUNTS GIVEN.
B. WITHIN EACH BEAM SEGMENT, DISTRIBUTE STUDS WITH EQUAL SPACING (MINIMUM SPACING = 4 1/2").
C. IF STUDS REMAIN AFTER SPACING AT 4 1/2", PROVIDE DOUBLE STUDS WORKING FROM THE BEAM END TO THE MIDPOINT.



- NOTES:**
- STUD SIZE SHALL BE AS FOLLOWS:
FOR 5 1/4" SLABS: 3/4"Ø x 4" LONG (AFTER WELDING)
FOR 6 1/2" SLABS: 3/4"Ø x 5" LONG (AFTER WELDING)
FOR 7 1/2" SLABS: 3/4"Ø x 6" LONG (AFTER WELDING)
 - PLACE STUDS IN STRONG POSITION AS SHOWN IN PLAN AND ELEVATION VIEWS.
 - MINIMUM STUD SPACING SHALL BE AS SHOWN IN PLAN AND SECTION VIEWS.



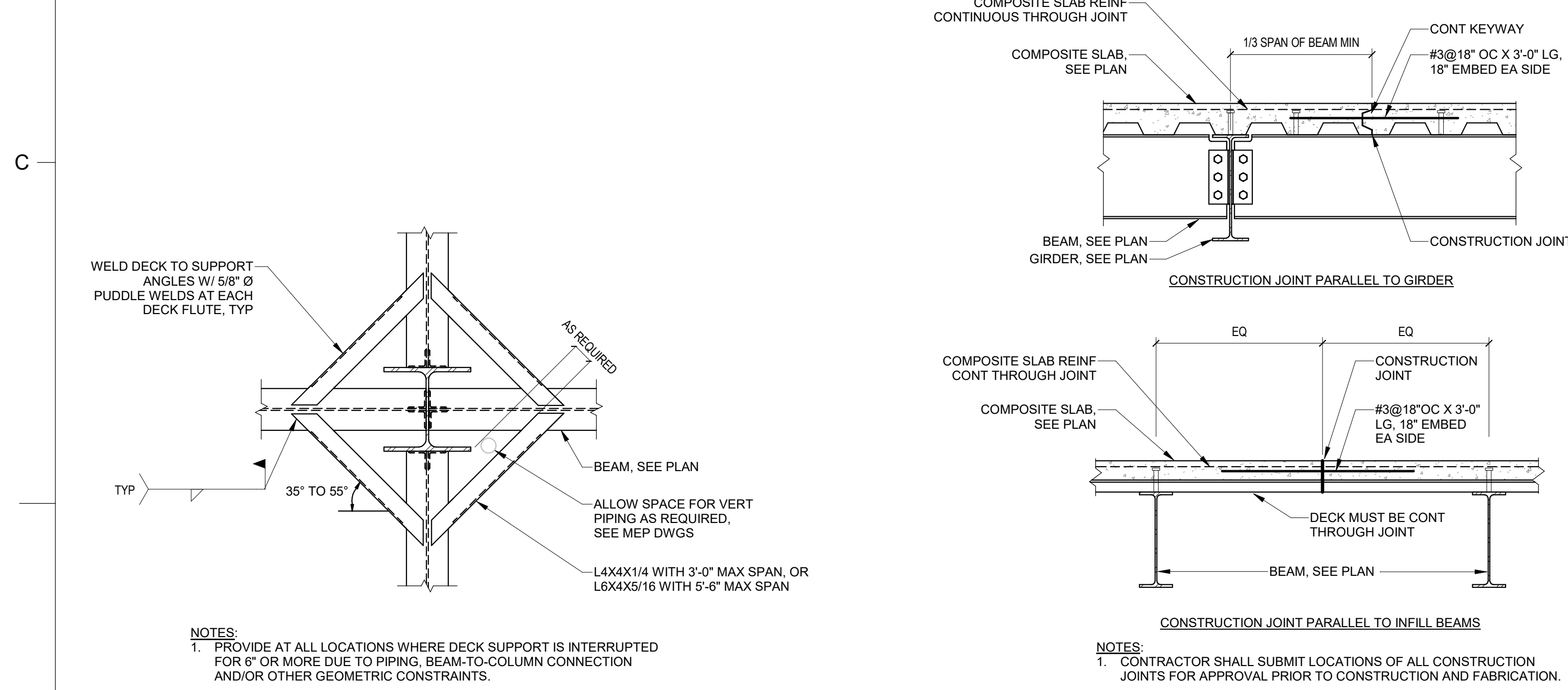
MINIMUM STEEL BEAM END REACTIONS FOR CONNECTION DESIGN	
W8	16 KIPS
W10	16 KIPS
W12	25 KIPS
W14	35 KIPS
W16	45 KIPS
W18	60 KIPS

- NOTES:**
- REACTIONS ARE FACTORED (LRFD)
 - SEE PLAN AND FRAME ELEVATIONS FOR BEAM END REACTIONS THAT EXCEED THE MINIMUM VALUES PROVIDED IN THIS TABLE

1
S3.01 TYPICAL COMPOSITE STEEL BEAM STUD LAYOUT
SCALE: 3/4" = 1'-0"
BP REF [SS2202]

2
S3.01 TYPICAL SHEAR STUD PLACEMENT
SCALE: 3/4" = 1'-0"
BP REF [SS2203]

3
S3.01 STEEL BEAM END SHEAR REACTIONS
SCALE: NO SCALE



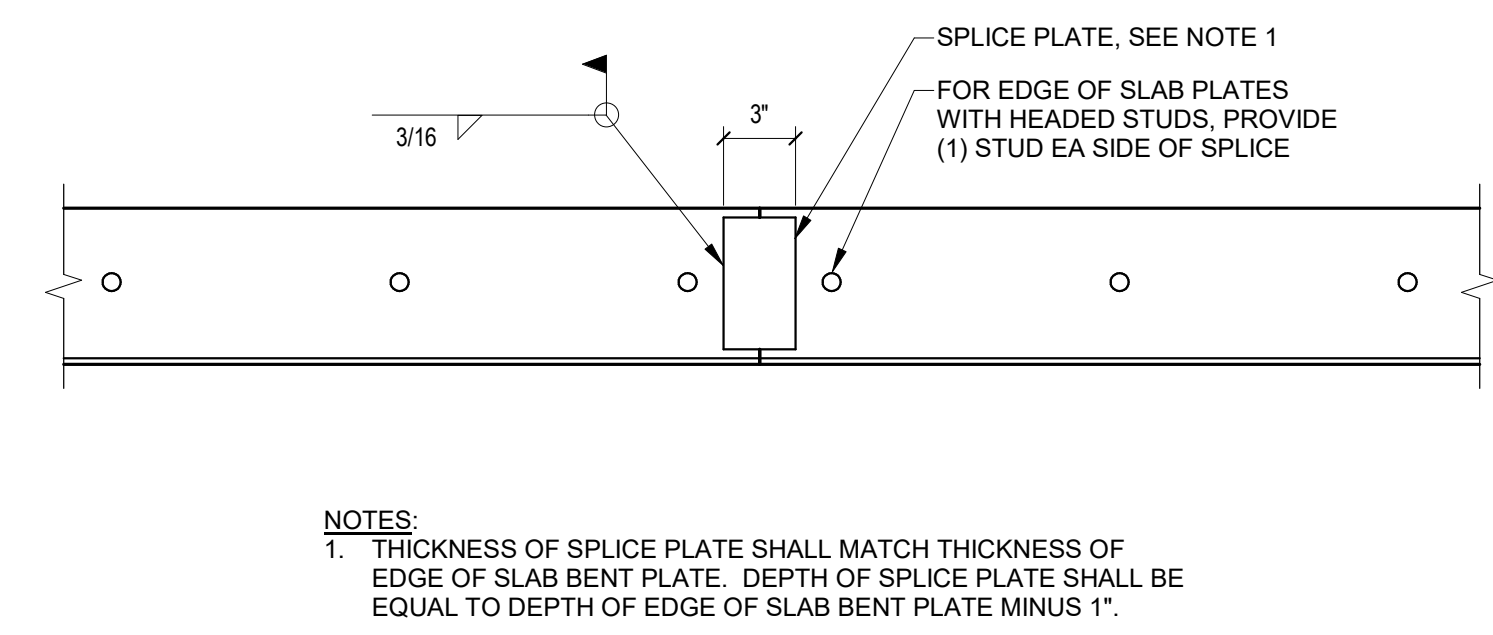
- NOTES:**
- PROVIDE AT ALL LOCATIONS WHERE DECK SUPPORT IS INTERRUPTED FOR 6" OR MORE DUE TO PIPING, BEAM-TO-COLUMN CONNECTION AND/OR OTHER GEOMETRIC CONSTRAINTS.

- NOTES:**
- CONTRACTOR SHALL SUBMIT LOCATIONS OF ALL CONSTRUCTION JOINTS FOR APPROVAL PRIOR TO CONSTRUCTION AND FABRICATION.

4
S3.01 TYPICAL METAL DECK SUPPORT AT COLUMNS
SCALE: 3/4" = 1'-0"
BP REF [SS2204]

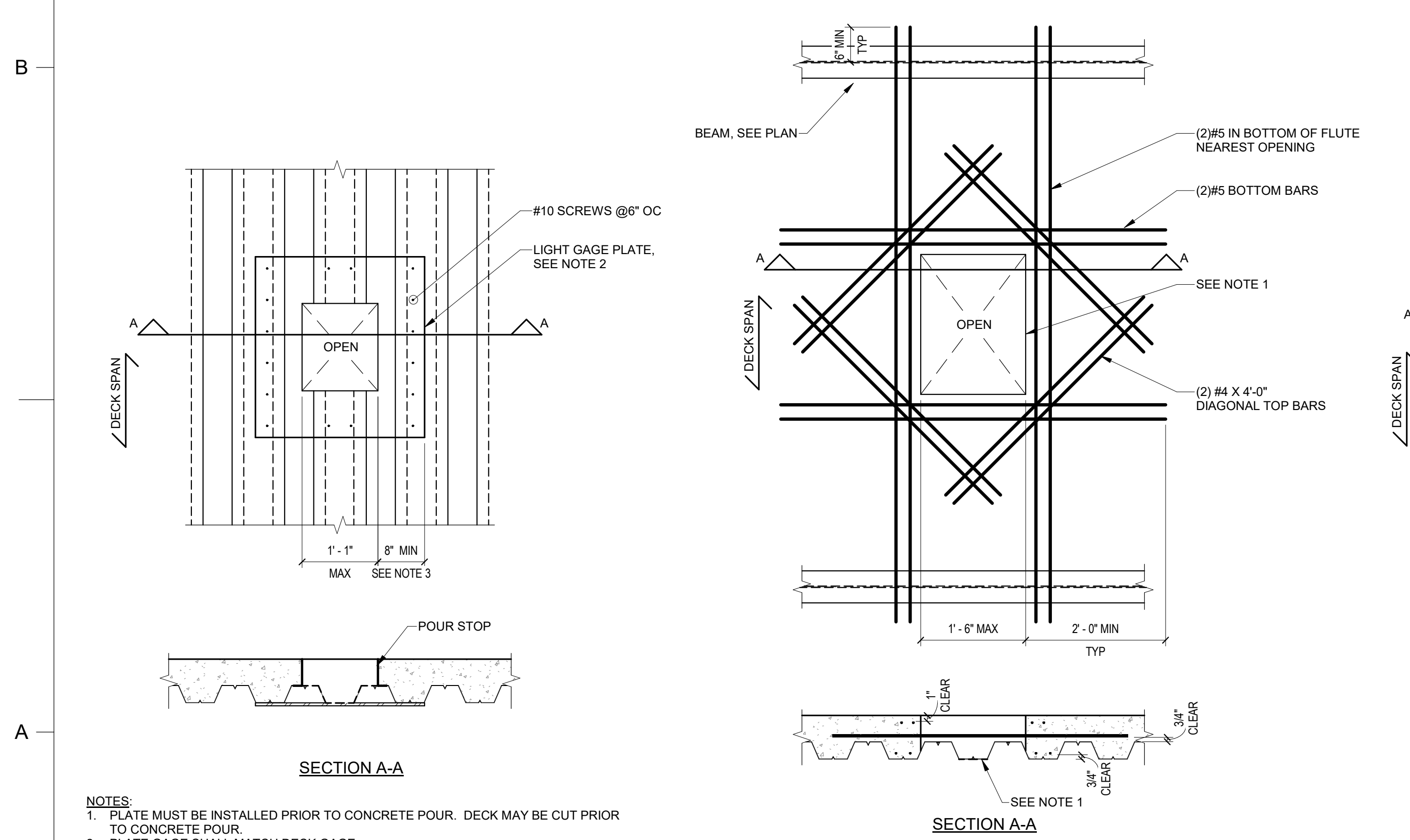
5
S3.01 TYPICAL CONSTRUCTION JOINT IN COMPOSITE SLAB
SCALE: 3/4" = 1'-0"
BP REF [SS2205]

6
S3.01 TYPICAL INTERIOR EDGE OF SLAB
SCALE: 1 1/2" = 1'-0"
BP REF [SS2209]



- NOTES:**
- THICKNESS OF SPLICE PLATE SHALL MATCH THICKNESS OF EDGE OF SLAB BENT PLATE. DEPTH OF SPLICE PLATE SHALL BE EQUAL TO DEPTH OF EDGE OF SLAB BENT PLATE MINUS 1".

7
S3.01 TYPICAL BENT PLATE SPLICE AT EDGE OF SLAB
SCALE: 1 1/2" = 1'-0"
BP REF [SS2212]



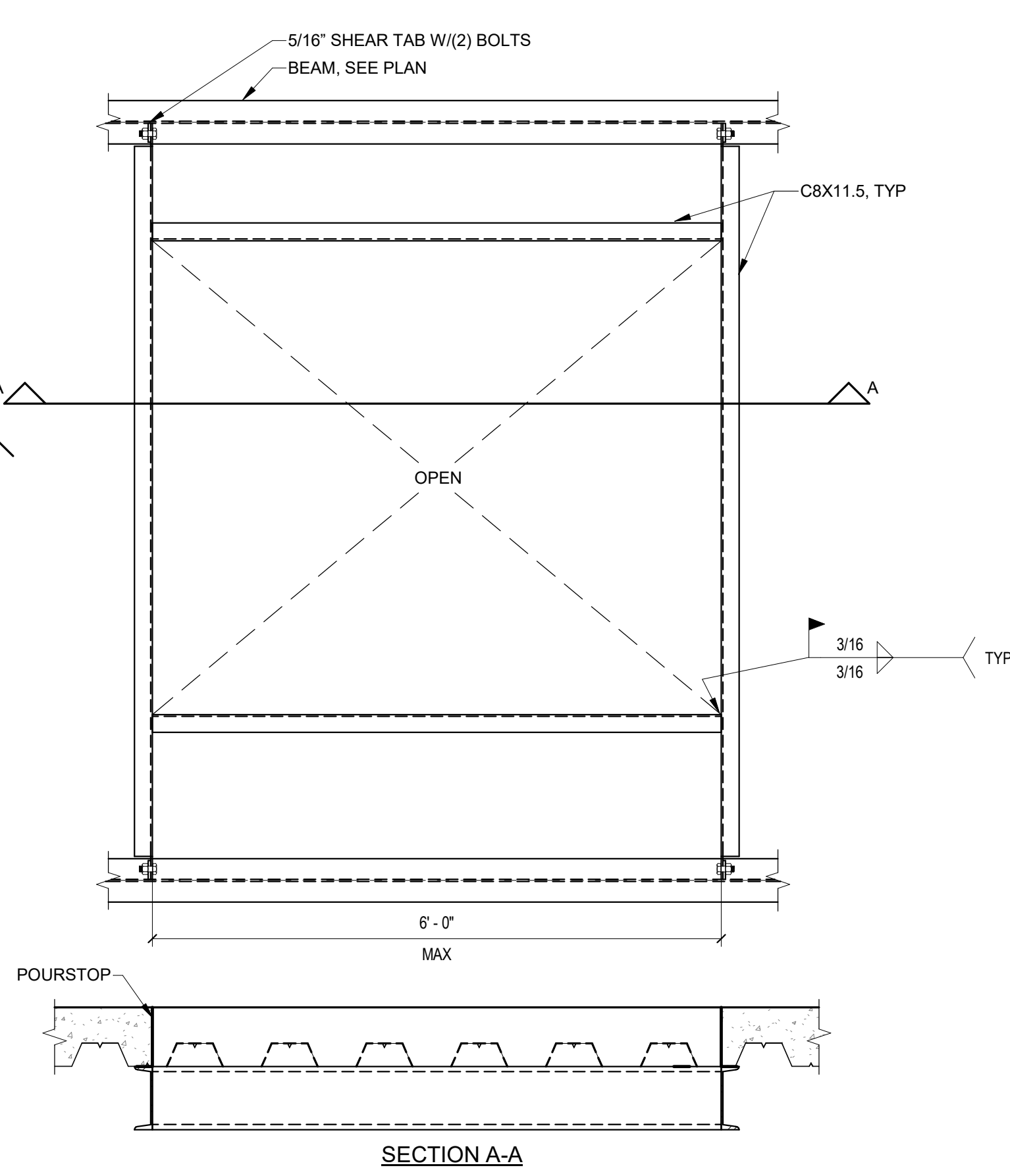
- NOTES:**
- PLATE MUST BE INSTALLED PRIOR TO CONCRETE POUR. DECK MAY BE CUT PRIOR TO CONCRETE POUR.
 - PLATE GAGE SHALL MATCH DECK GAGE.
 - PLATE SHALL EXTEND A MINIMUM 6" BEYOND THE OPENING ON ALL SIDES. PROVIDE LARGER DIMENSIONS AS NEEDED TO ENSURE PLATE OVERLAPS BOTTOM DECK FLUTE BY 2" MINIMUM.
 - ALL PENETRATIONS GREATER THAN 6"x6" MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
 - PENETRATIONS LESS THAN 6"x6" DO NOT REQUIRE ADDITIONAL REINFORCING.
 - LARGER PENETRATIONS THAT MUST BE CUT PRIOR TO SLAB REACHING 75% DESIGN STRENGTH SHALL BE FRAMED WITH STRUCTURAL STEEL.

- NOTES:**
- FORM PENETRATIONS TO EXCLUDE CONCRETE. DO NOT CUT DECK UNTIL SLAB HAS REACHED 75% DESIGN STRENGTH.
 - ALL PENETRATIONS GREATER THAN 6"x6" MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
 - PENETRATIONS LESS THAN 6"x6" DO NOT REQUIRE ADDITIONAL REINFORCING.
 - PENETRATIONS GREATER THAN 18" OR PENETRATIONS THAT MUST BE CUT PRIOR TO SLAB REACHING 75% DESIGN STRENGTH SHALL BE FRAMED WITH STRUCTURAL STEEL.

8
S3.01 TYPICAL SLAB PENETRATION UP TO 13"
SCALE: 3/4" = 1'-0"
BP REF [SS2220]

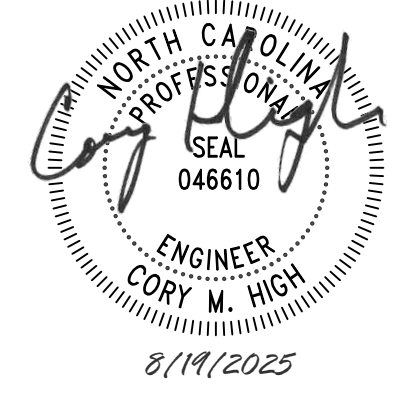
9
S3.01 TYPICAL SLAB PENETRATION UP TO 18"
SCALE: 3/4" = 1'-0"
BP REF [SS2221]

10
S3.01 TYPICAL FRAMED SLAB OPENING
SCALE: 3/4" = 1'-0"
BP REF [SS2223]



- NOTES:**
- CONTRACTOR FIELD COORDINATE EXACT SLAB OPENING LOCATIONS AND DIMENSIONS.
 - ALL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

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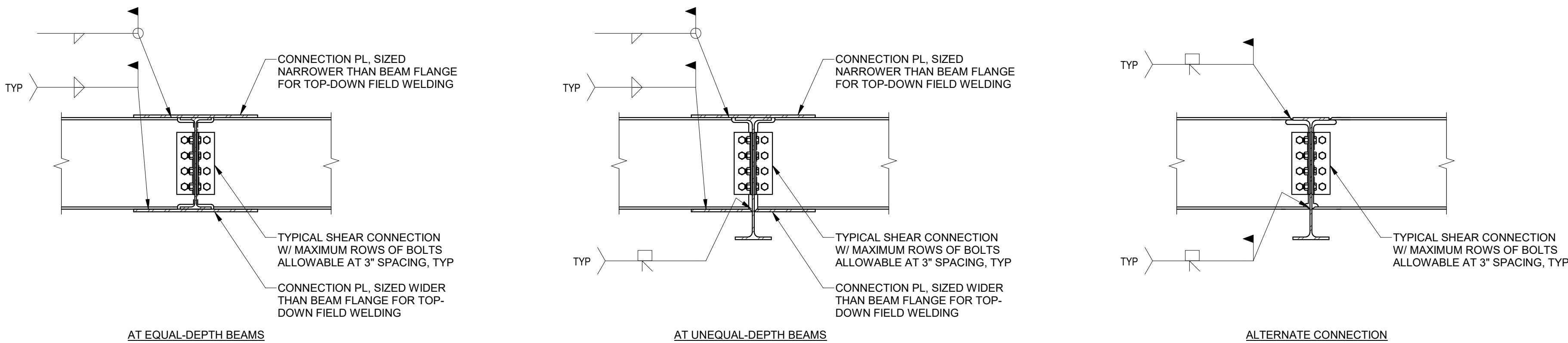
No.	Description	Date

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Project Number: 2023-001-01
Date: AUGUST 19, 2025

TYPICAL FRAMING DETAILS

S3.01

D

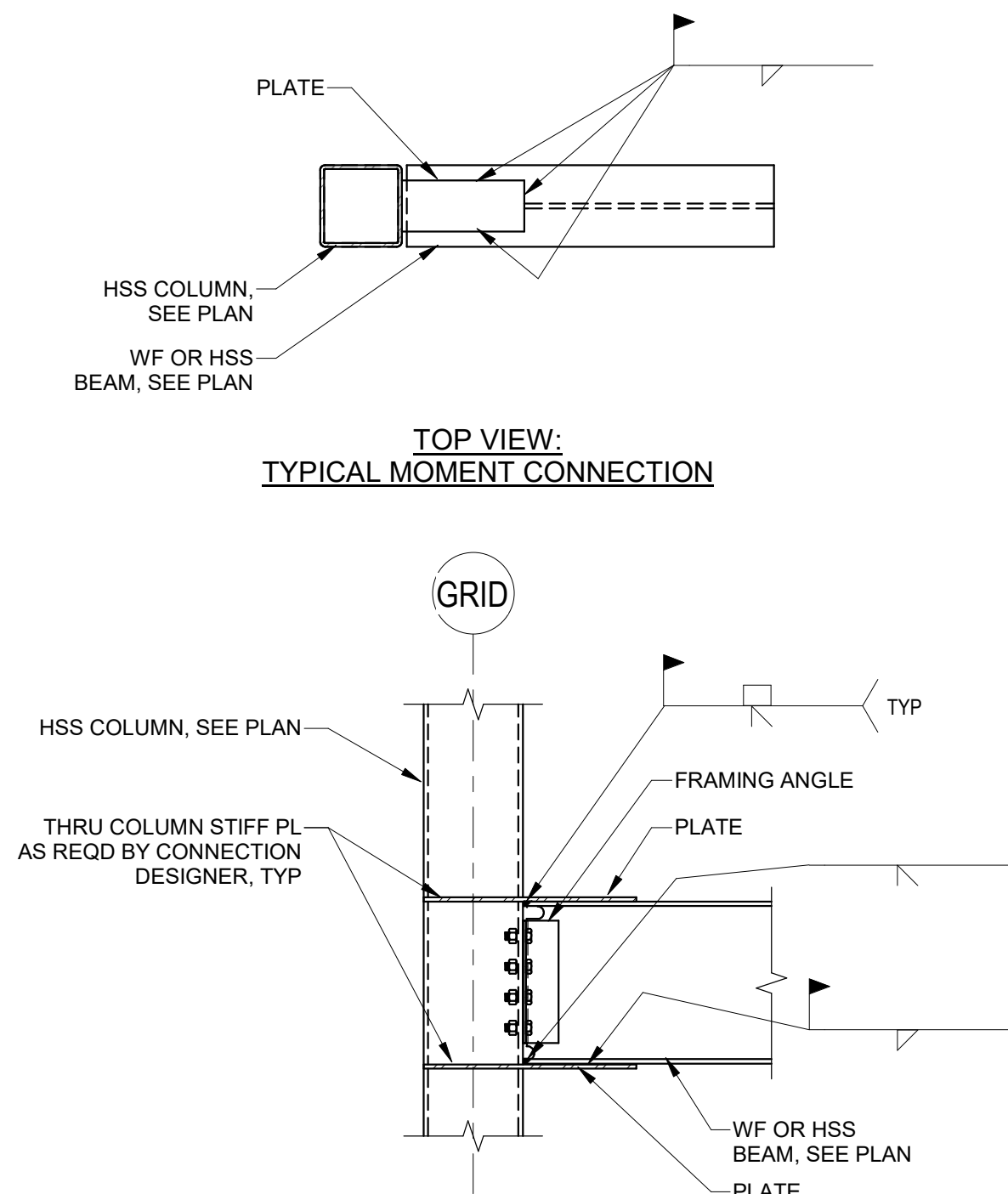


- NOTES:
1. DETAIL IS SCHEMATIC. FABRICATOR SHALL DESIGN ALL CONNECTION COMPONENTS.
 2. ALTERNATE CONNECTION DETAILS MAY BE SUBMITTED FOR APPROVAL.

1 TYPICAL MOMENT CONNECTIONS AT BEAMS

SCALE: 3/4" = 1'-0"
BP REF [SS2143]

C



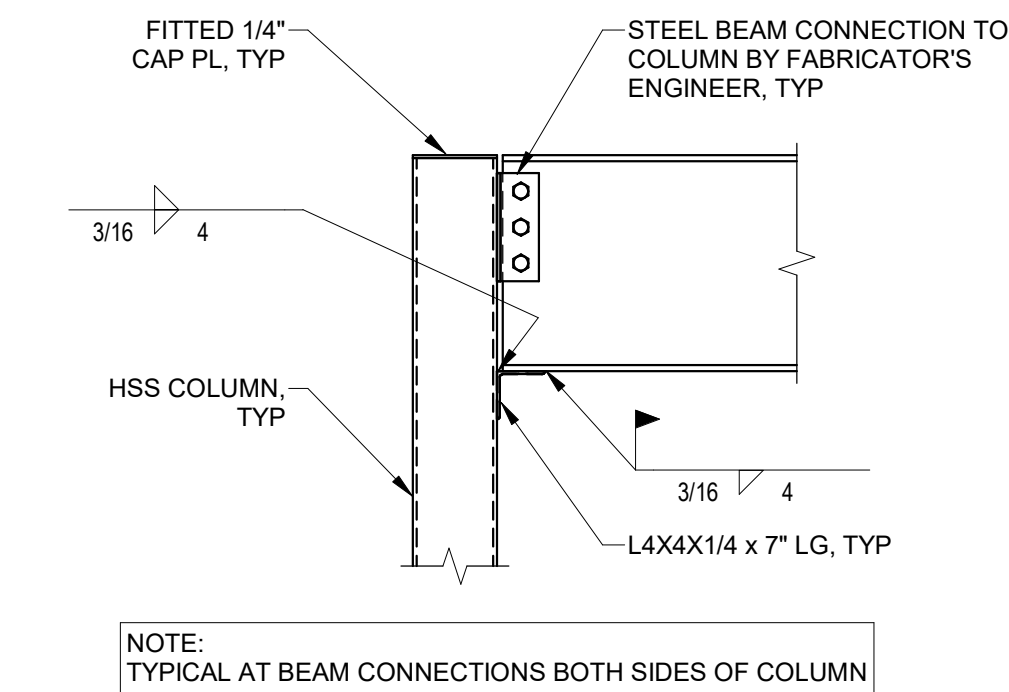
- NOTES:
1. PROVIDE ULTRASONIC TESTING AT FULL PENETRATION WELDS
 2. BEAM SHEAR REACTIONS AND MOMENT CONNECTION REACTIONS WILL BE PROVIDED TO THE FABRICATOR'S ENGINEER FOR CONNECTION DESIGN, TYP

4 TYPICAL MOMENT CONNECTION TO HSS COLUMN

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

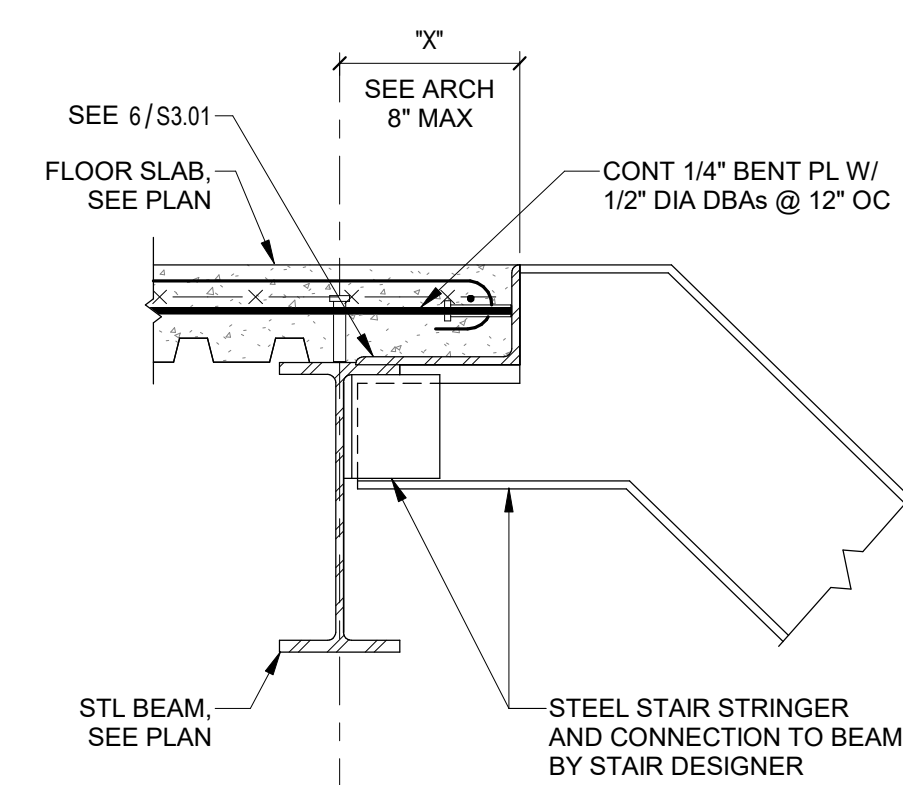
B

A



2 TYPICAL TOP OF COLUMN DETAIL

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



3 TYP STEEL STAIR CONNX AT CONC DECK

SCALE: 1" = 1'-0"

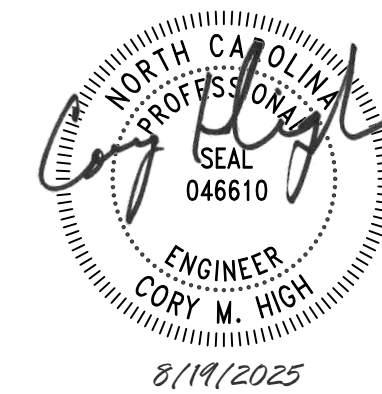
CREECH & ASSOCIATES

1000 W. Morehead St.
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Charlotte, NC 28208
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North Carolina Corporate
Engineering Certification No. F-1105



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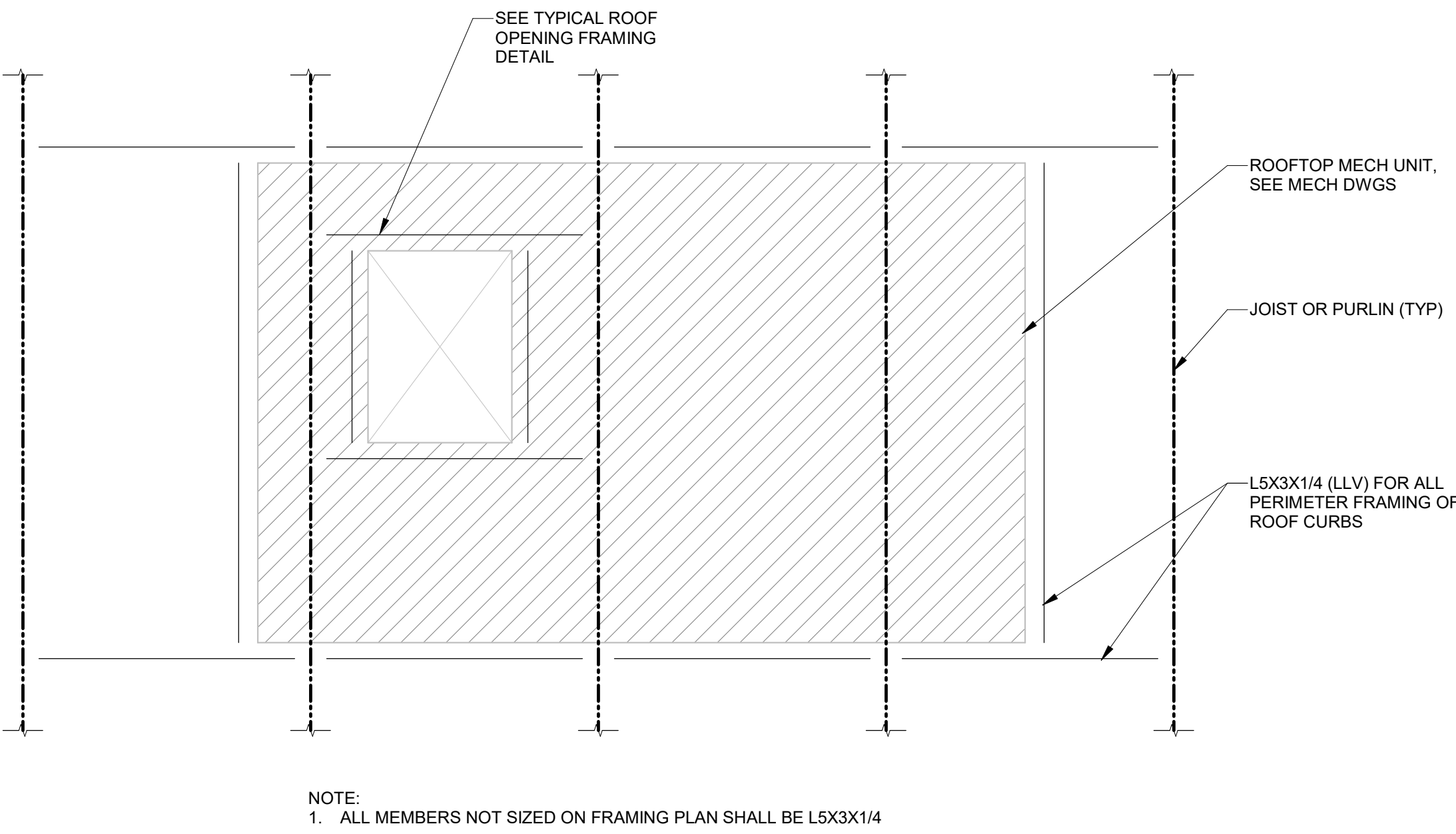
Project Number: 2023-001-01

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TYPICAL FRAMING
DETAILS

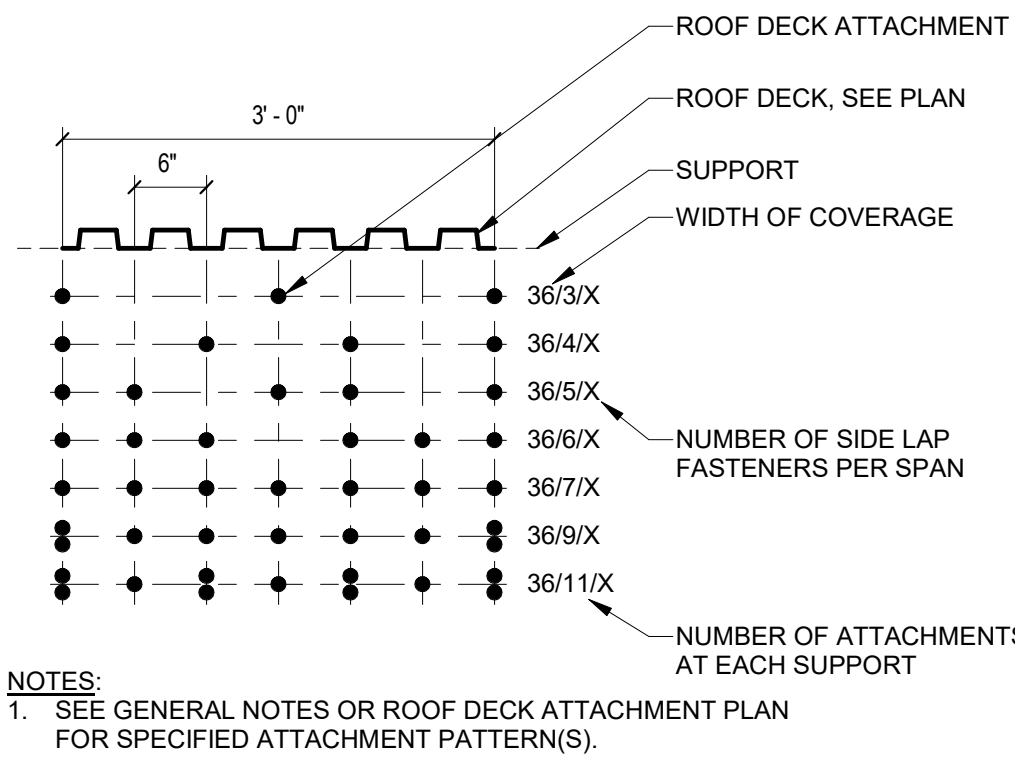
S3.02

D



1 TYPICAL MECHANICAL RTU FRAMING
S3.03 SCALE: 3/4" = 1'-0"

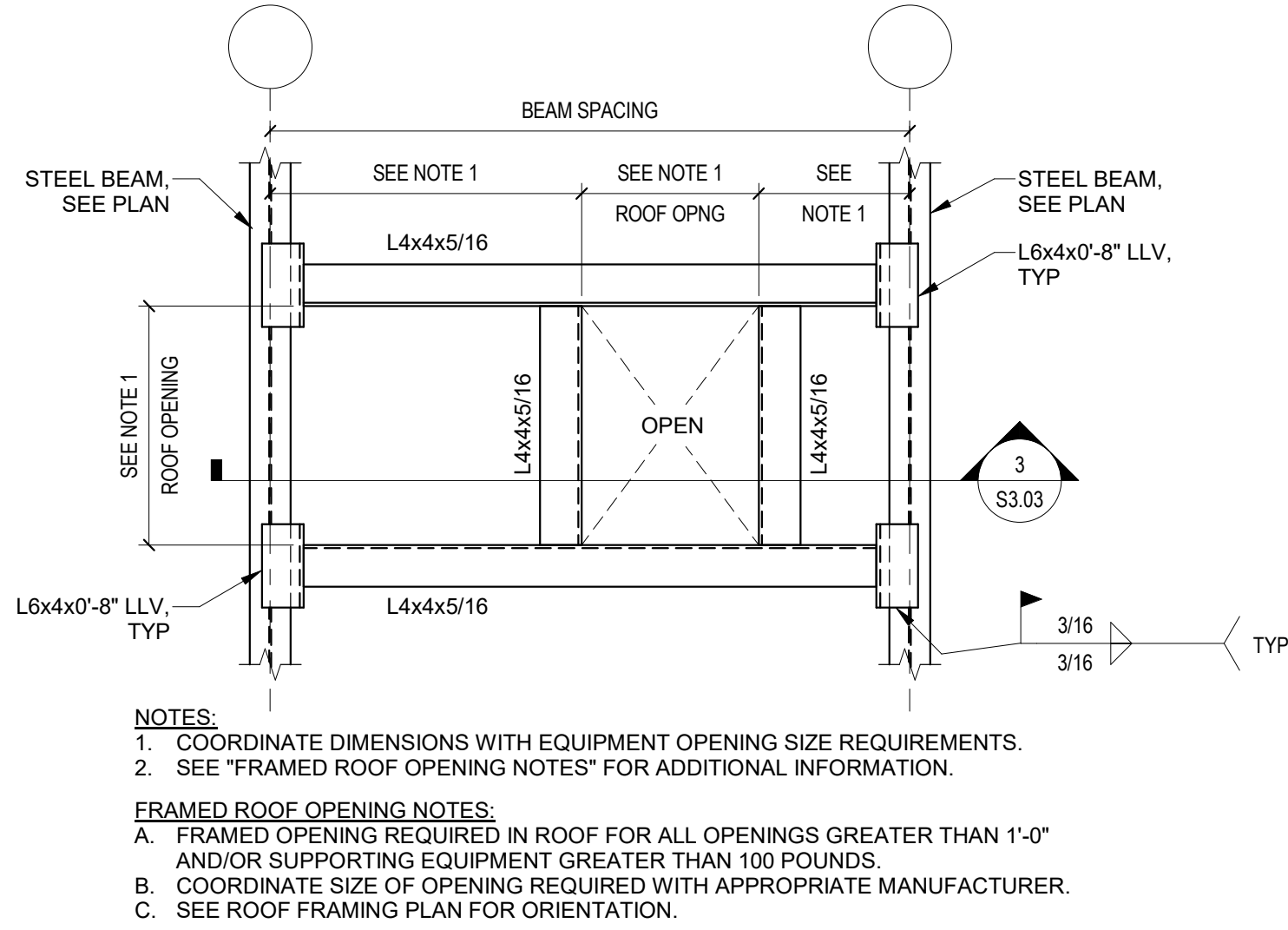
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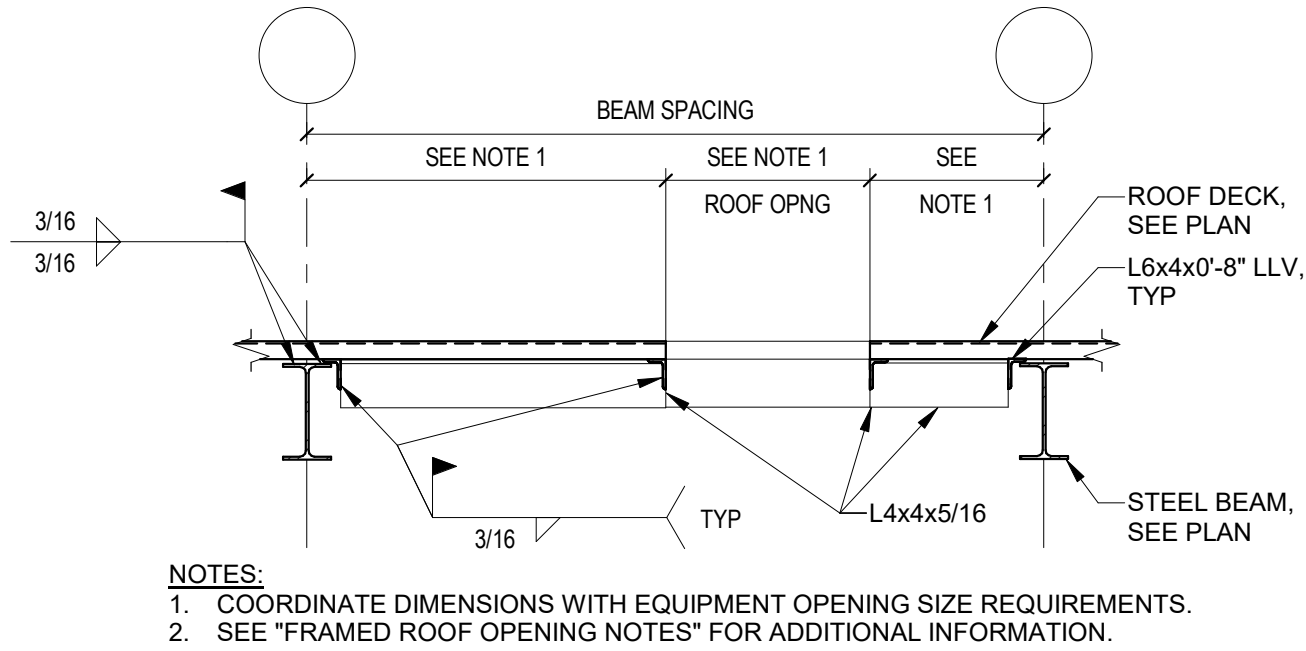
5 TYPICAL 1 1/2" ROOF DECK ATTACHMENT PATTERNS
S3.03 SCALE: 3/4" = 1'-0"
BP REF [SS2301]

B

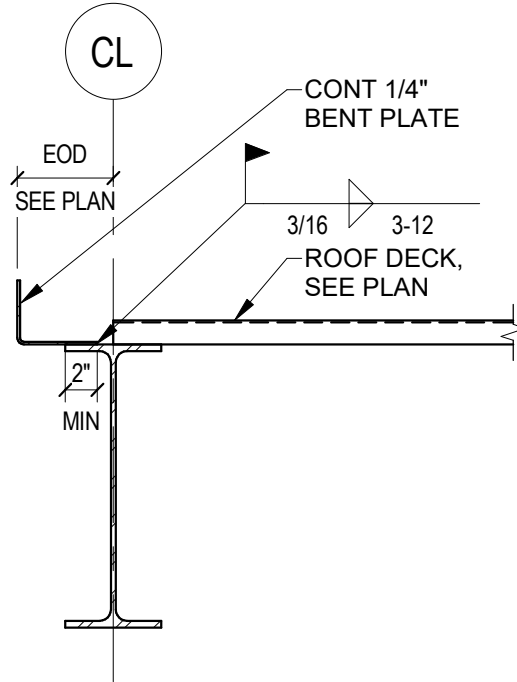
A



2 PLAN DETAIL AT TYPICAL FRAMED ROOF OPENING
S3.03 SCALE: 3/4" = 1'-0"
BP REF [SS-2.35]



3 SECTION AT TYPICAL FRAMED ROOF OPENING
S3.03 SCALE: 3/4" = 1'-0"
BP REF [SS-2.35A]



4 TYPICAL EDGE OF ROOF
S3.03 SCALE: 1" = 1'-0"
BP REF [SS2303]

CREECH & ASSOCIATES

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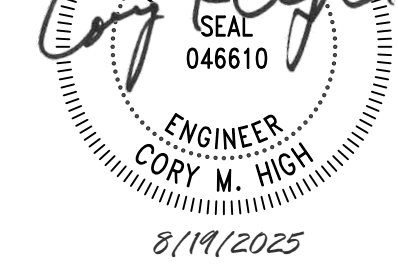
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B & P Job Number: 25-07-005

North Carolina Corporate

Engineering Certification No. F-1105



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TYPICAL ROOF FRAMING DETAILS

S3.03

D

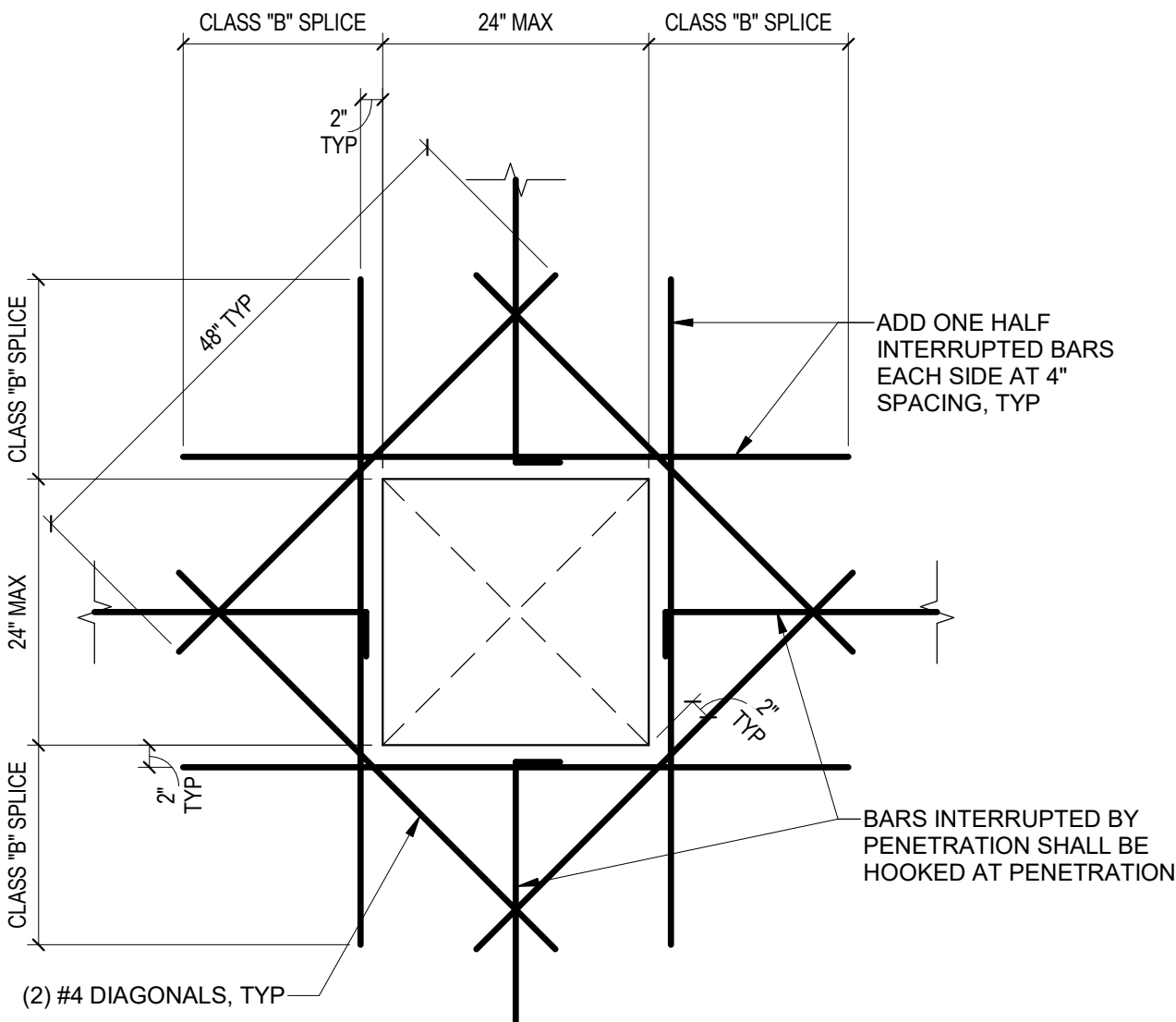
BAR SIZE	CLASS B TENSION LAP SPlice LENGTH					
	f _c = 3 KSI		f _c = 4 KSI		f _c = 5 KSI	
	TOP BARS	OTHERS	TOP BARS	OTHERS	TOP BARS	OTHERS
#3	28"	22"	24"	19"	22"	17"
#4	37"	29"	33"	25"	29"	23"
#5	47"	36"	41"	31"	36"	28"
#6	56"	43"	49"	37"	43"	34"
#7	81"	63"	71"	54"	63"	49"
#8	93"	72"	81"	62"	72"	56"
#9	105"	81"	91"	70"	81"	63"
#10	118"	91"	102"	79"	92"	70"
#11	131"	101"	113"	87"	102"	78"

- NOTES:
1. TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPlice. OTHERS ARE ALL BARS FOR WHICH THIS DOES NOT APPLY.
 2. TABULATED VALUES ARE FOR NON-EPOXY COATED, GRADE 60 REINFORCEMENT IN NORMAL WEIGHT CONCRETE.
 3. INCREASE LAP SPlice LENGTH BY 30% FOR EPOXY COATED BARS.
 4. INCREASE LAP SPlice LENGTH BY 33% FOR LIGHTWEIGHT CONCRETE.
 5. FOR f_c VALUES BETWEEN THOSE SHOWN IN THE SCHEDULE, CONTRACTOR MAY INTERPOLATE BETWEEN VALUES PROVIDED.

1 LAP SPlice SCHEDULE

S4.01

SCALE: 1" = 1'-0"
BP REF [CON3101]

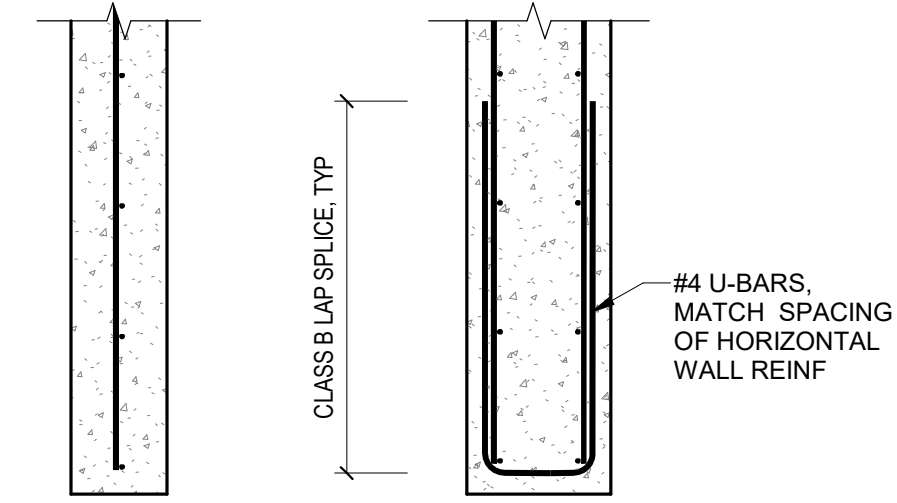


- NOTES:
1. MAXIMUM PENETRATION SIZE IS 24"x24" SQUARE OR 24" DIAMETER CIRCLE.
 2. ALL PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE APPROVED BY ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

5 TYPICAL DETAIL AT CONCRETE WALL PENETRATION

S4.01

SCALE: 3/4" = 1'-0"
BP REF [CON3105]



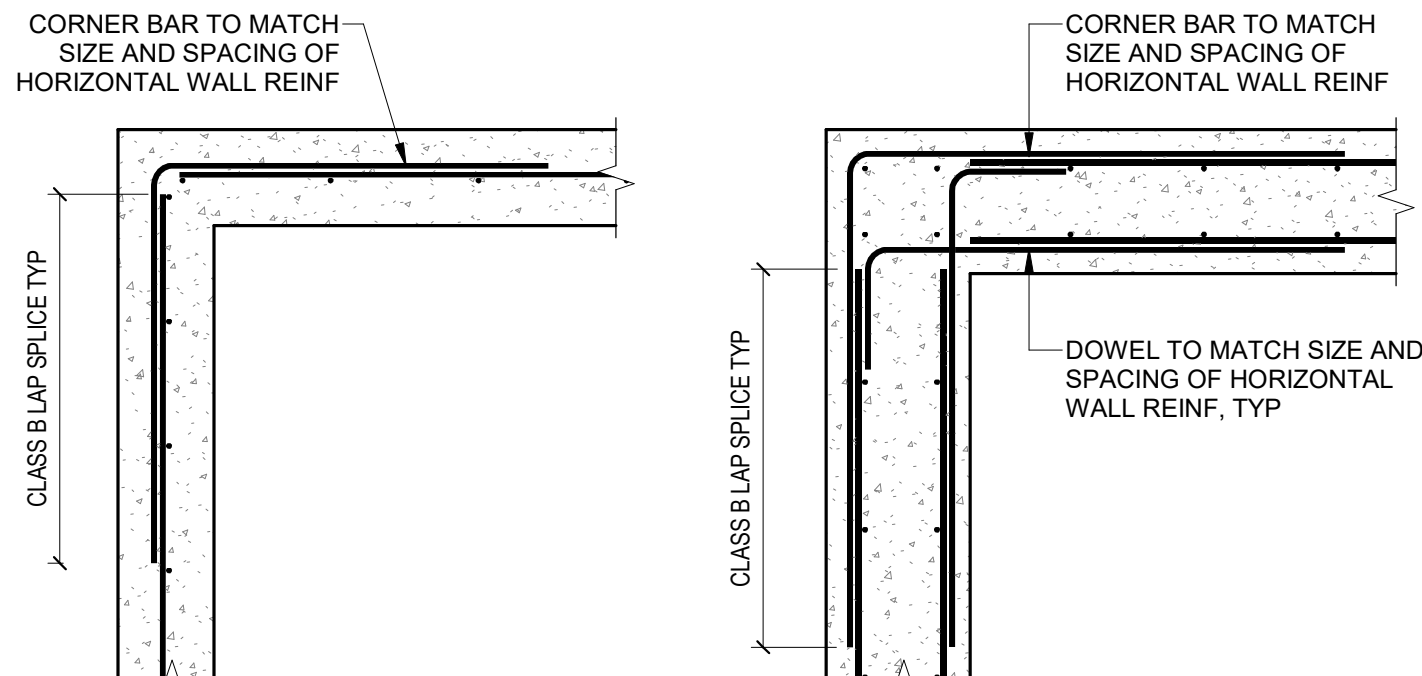
SINGLE LAYER OF REINF DOUBLE LAYER OF REINF

- NOTES:
1. DETAIL INDICATES TYPICAL GEOMETRY AND MINIMUM REINFORCING REQUIREMENTS. ADDITIONAL REINFORCING MAY BE REQUIRED AT DOOR OPENINGS, SHEAR WALL BOUNDARY ELEMENTS, LOAD BEARING POINTS, ETC, AS SHOWN IN ADDITIONAL DETAILS.

2 TYPICAL PLAN DETAIL AT WALL END

S4.01

SCALE: 3/4" = 1'-0"
BP REF [CON3102]



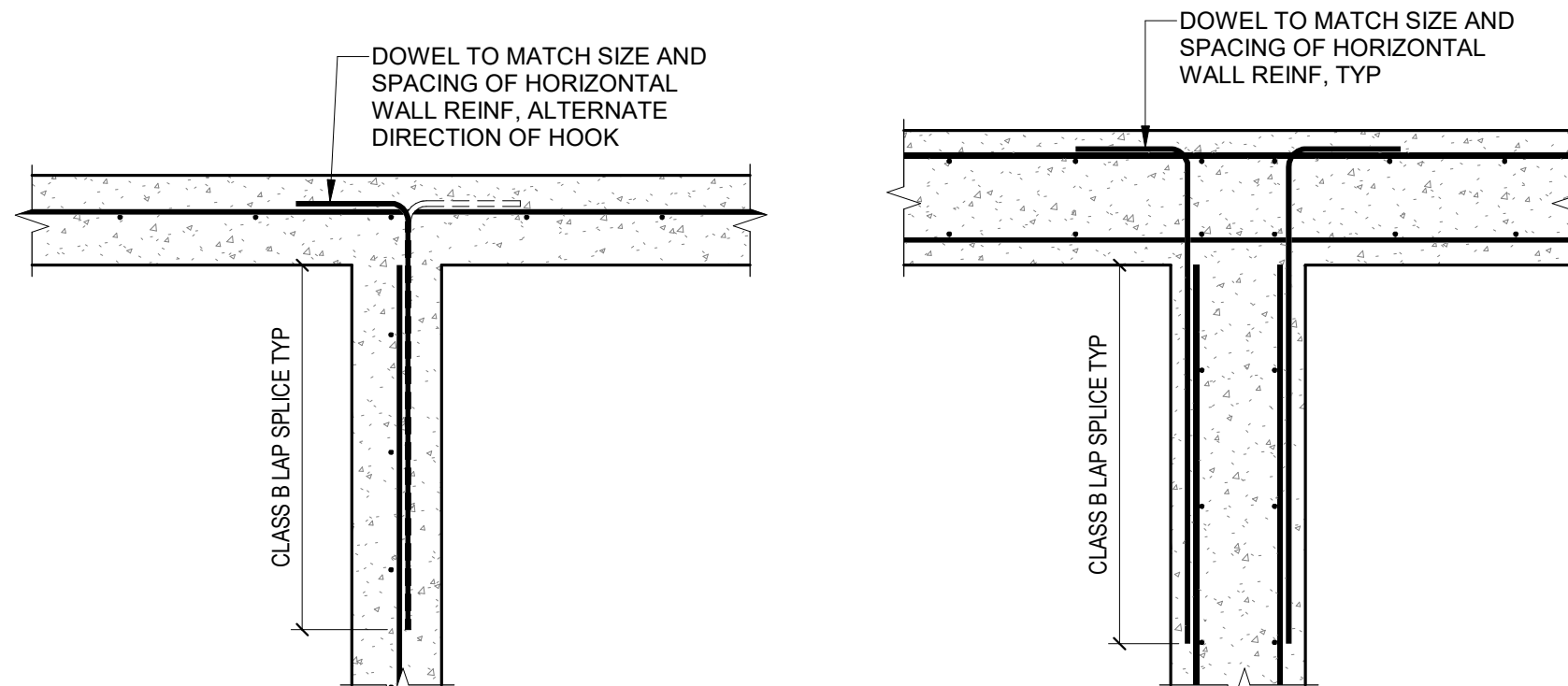
SINGLE LAYER OF REINF DOUBLE LAYER OF REINF

- NOTES:
1. DETAIL INDICATES TYPICAL GEOMETRY AND MINIMUM REINFORCING REQUIREMENTS. ADDITIONAL REINFORCING MAY BE REQUIRED AT DOOR OPENINGS, SHEAR WALL BOUNDARY ELEMENTS, LOAD BEARING POINTS, ETC, AS SHOWN IN ADDITIONAL DETAILS.

3 TYPICAL PLAN DETAIL AT WALL CORNER

S4.01

SCALE: 3/4" = 1'-0"
BP REF [CON3103]



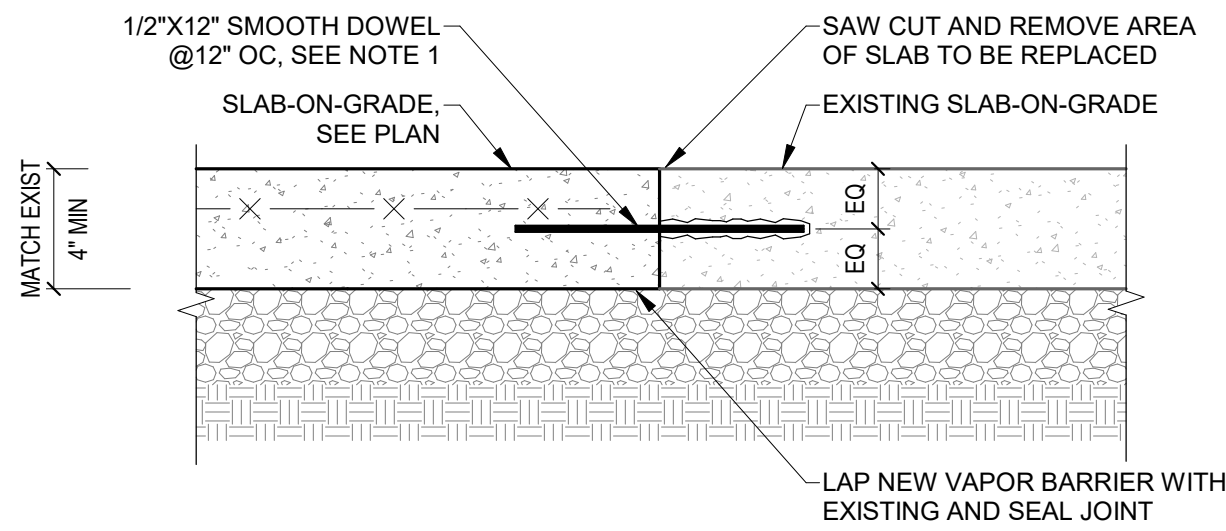
SINGLE LAYER OF REINF DOUBLE LAYER OF REINF

- NOTES:
1. DETAIL INDICATES TYPICAL GEOMETRY AND MINIMUM REINFORCING REQUIREMENTS. ADDITIONAL REINFORCING MAY BE REQUIRED AT DOOR OPENINGS, SHEAR WALL BOUNDARY ELEMENTS, LOAD BEARING POINTS, ETC, AS SHOWN IN ADDITIONAL DETAILS.

4 TYPICAL PLAN DETAIL AT WALL INTERSECTION

S4.01

SCALE: 3/4" = 1'-0"
BP REF [CON3104]

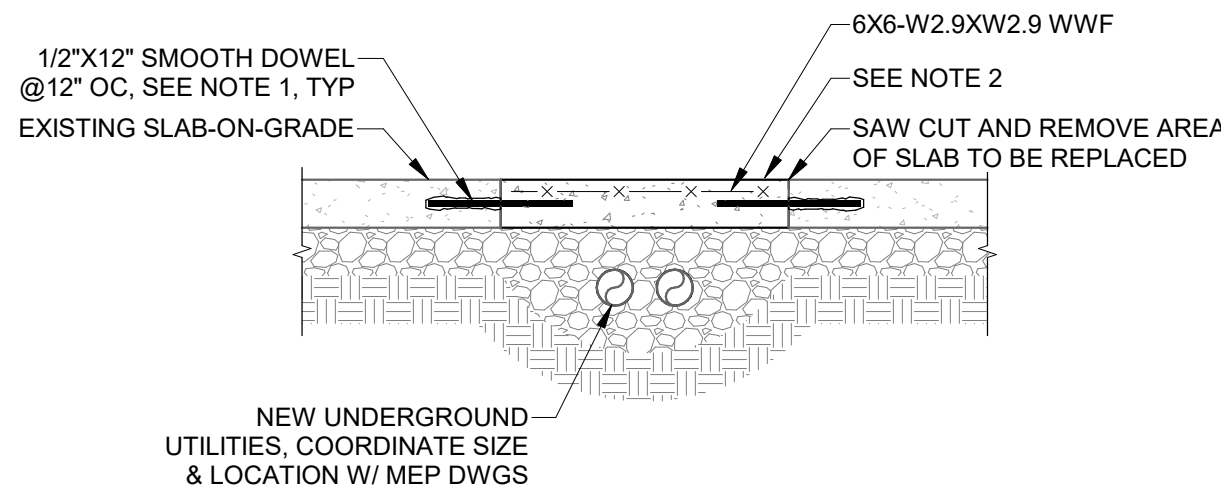


- NOTES:
1. DRILL AND SET DOWELS IN APPROVED ADHESIVE WITH 6" EMBED. GREASE ENDS AT NEW POUR.

6 TYPICAL SLAB-ON-GRADE REPAIR

S4.01

SCALE: 1 1/2" = 1'-0"
BP REF [RR7101]



- NOTES:
1. DRILL AND SET DOWELS IN APPROVED ADHESIVE WITH 6" EMBED. GREASE ENDS AT NEW POUR.
 2. REMOVE AND REPLACE EXIST SOG WITH NEW CONCRETE SOG WITH f_c = 4000 PSI (MIN).
 3. CUT CONTROL JOINTS TO MATCH EXISTING SLAB JOINTS. BREAK SLAB REINFORCEMENTS AT JOINTS.
 4. PROVIDE (1) #4 X 4'-0" AT ALL RE-ENTRANT CORNERS.

7 TYPICAL SLAB REPAIR AT UTILITY

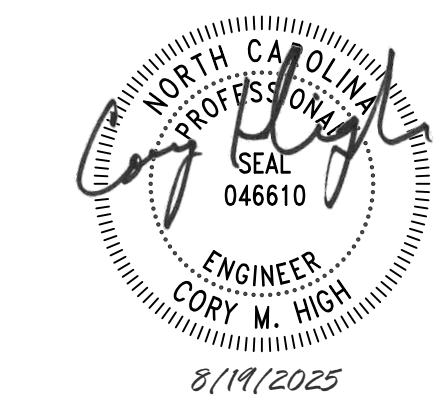
S4.01

SCALE: 3/4" = 1'-0"
BP REF [RR7102]

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TYPICAL CONCRETE DETAILS

S4.01

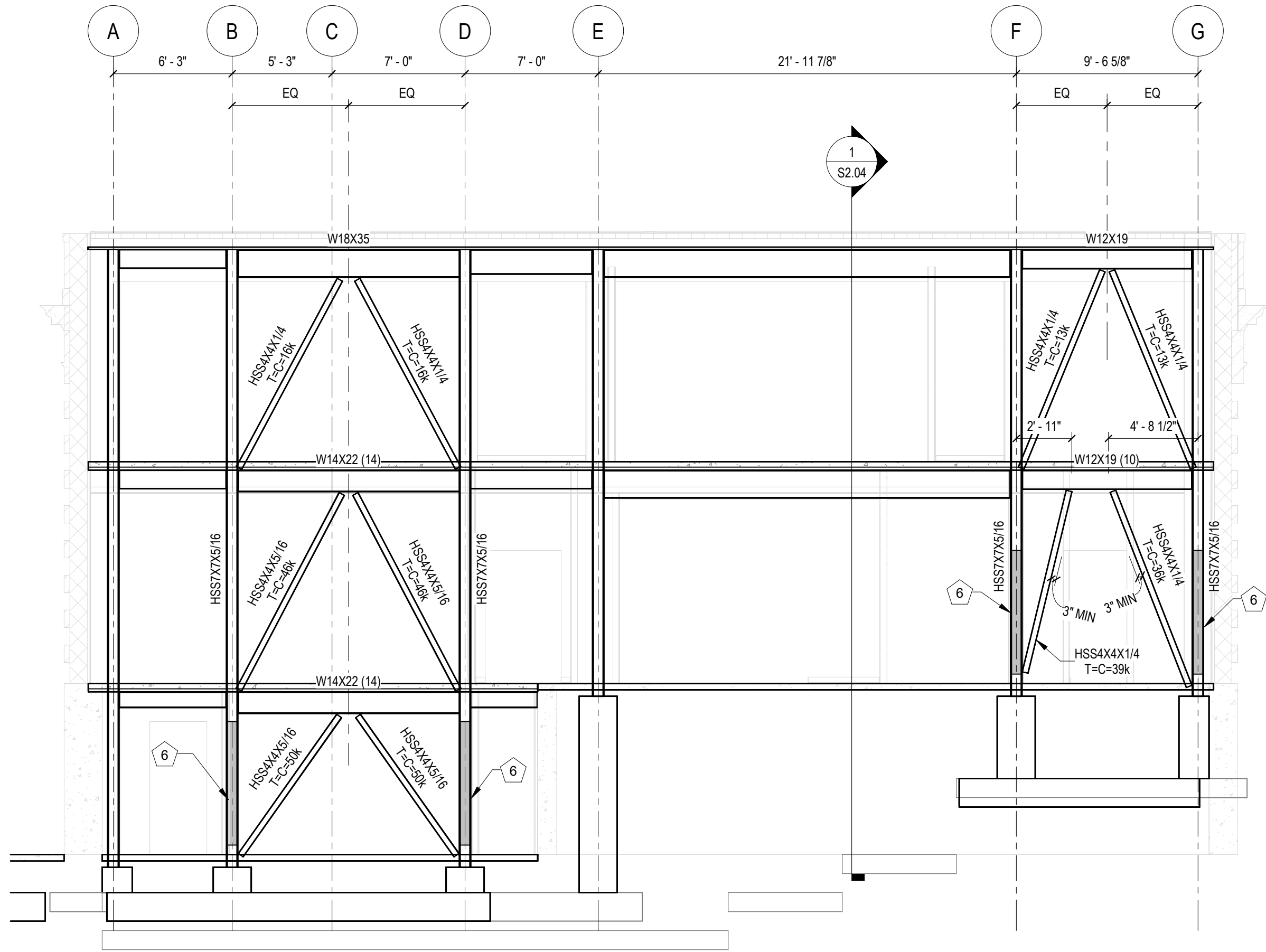
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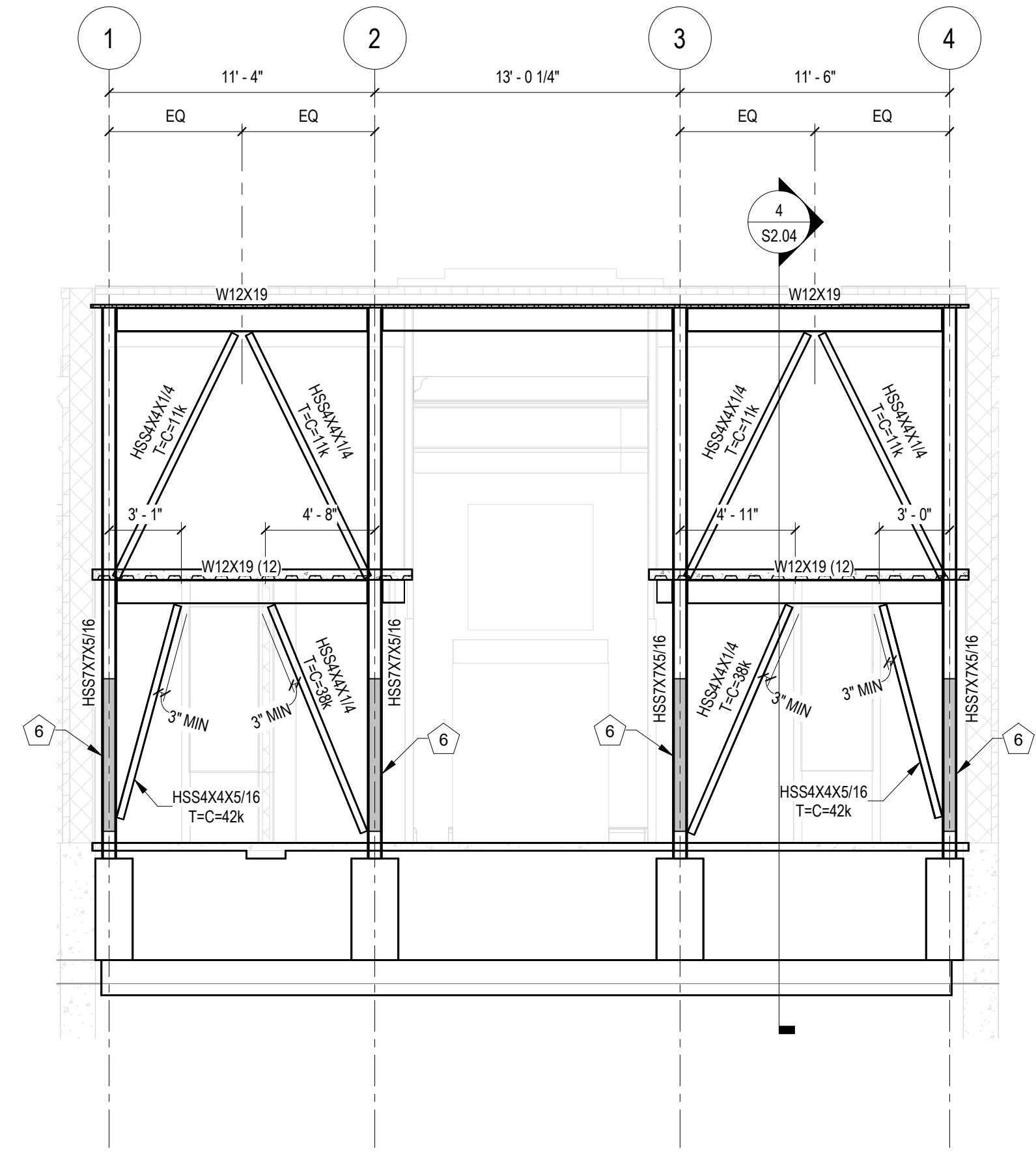
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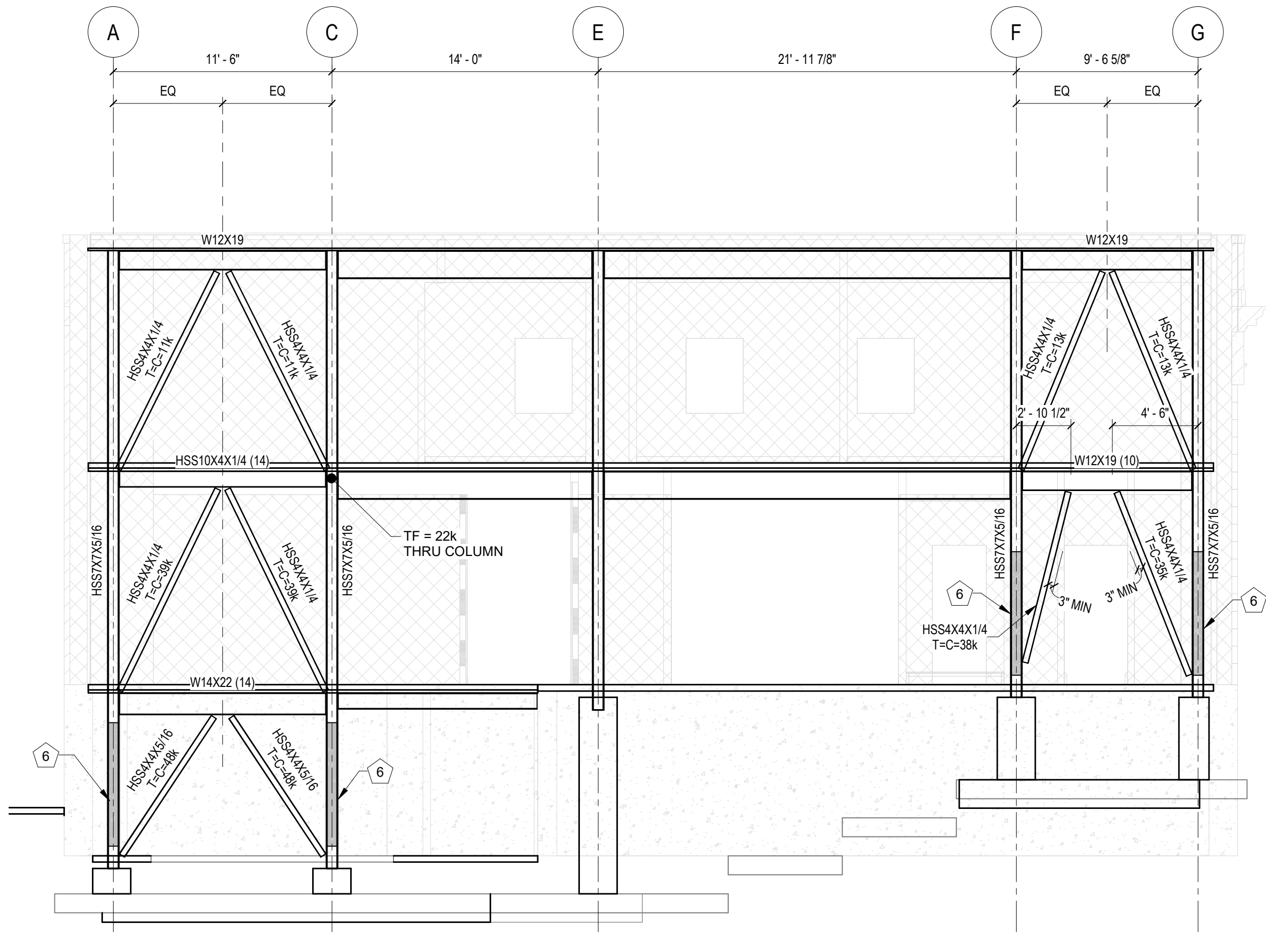
- BRACED FRAME NOTES:
- CENTROIDS OF MEMBERS COINCIDE, UNO.
 - T = C + "N" INDICATES BRACE AXIAL FORCE (KIPS). "T" DENOTES THE BRACE IS IN TENSION, "C" DENOTES THE BRACE IS IN COMPRESSION.
 - "NO" INDICATES BEAM VERTICAL SHEAR REACTION (KIPS).
 - "TF" INDICATES TRANSFER FORCE (KIPS) FROM ADJACENT BEAM.
 - FABRICATOR SHALL DESIGN ALL BEAM TO COLUMN CONNECTIONS WITHIN VERTICAL FRAME TO SUPPORT THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE PLUS THE BEAM REACTION SHOWN ON THE ELEVATION. ALLOWABLE STRESS INCREASES OR LOAD REDUCTIONS ARE NOT PERMITTED.
 - COLUMN-TO-WALL ANCHORAGE IS REQUIRED AT THE BUILDING LEVEL INDICATED ON THE ELEVATION DETAIL. REFER TO THE COLUMN-TO-WALL ANCHORAGE DETAIL FOR CONNECTION INFORMATION.



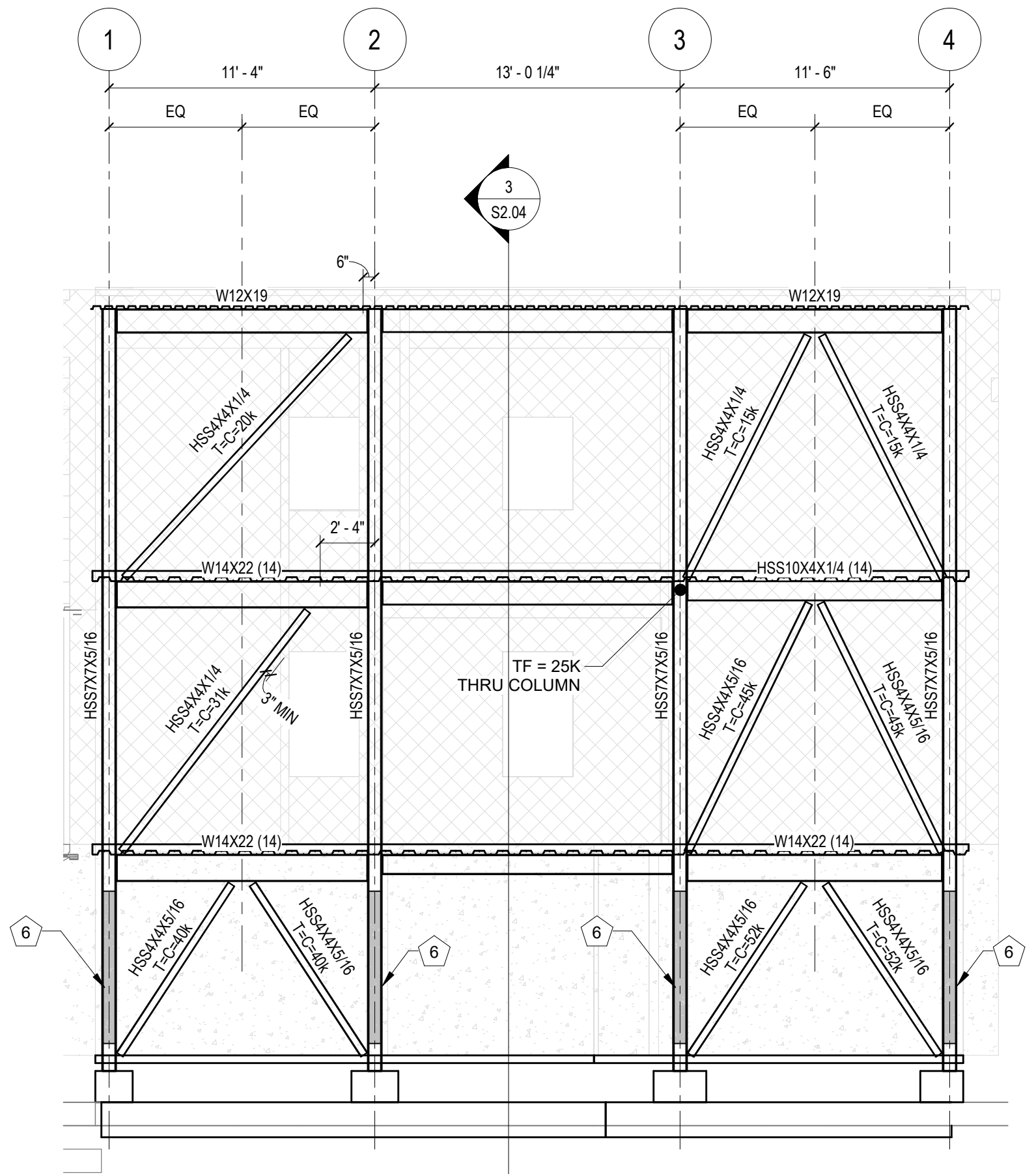
1
S5.01
BRACE FRAME GRID 1
SCALE: 3/16" = 1'-0"



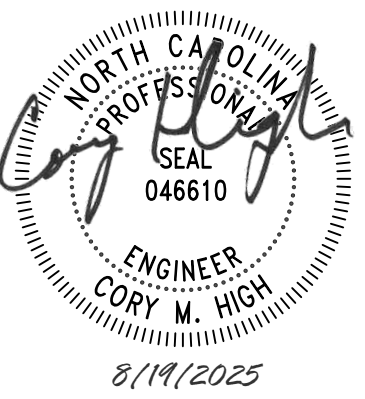
2
S5.01
BRACE FRAME GRID E
SCALE: 3/16" = 1'-0"



3
S5.01
BRACE FRAME GRID 4
SCALE: 3/16" = 1'-0"



4
S5.01
BRACE FRAME GRID A
SCALE: 3/16" = 1'-0"



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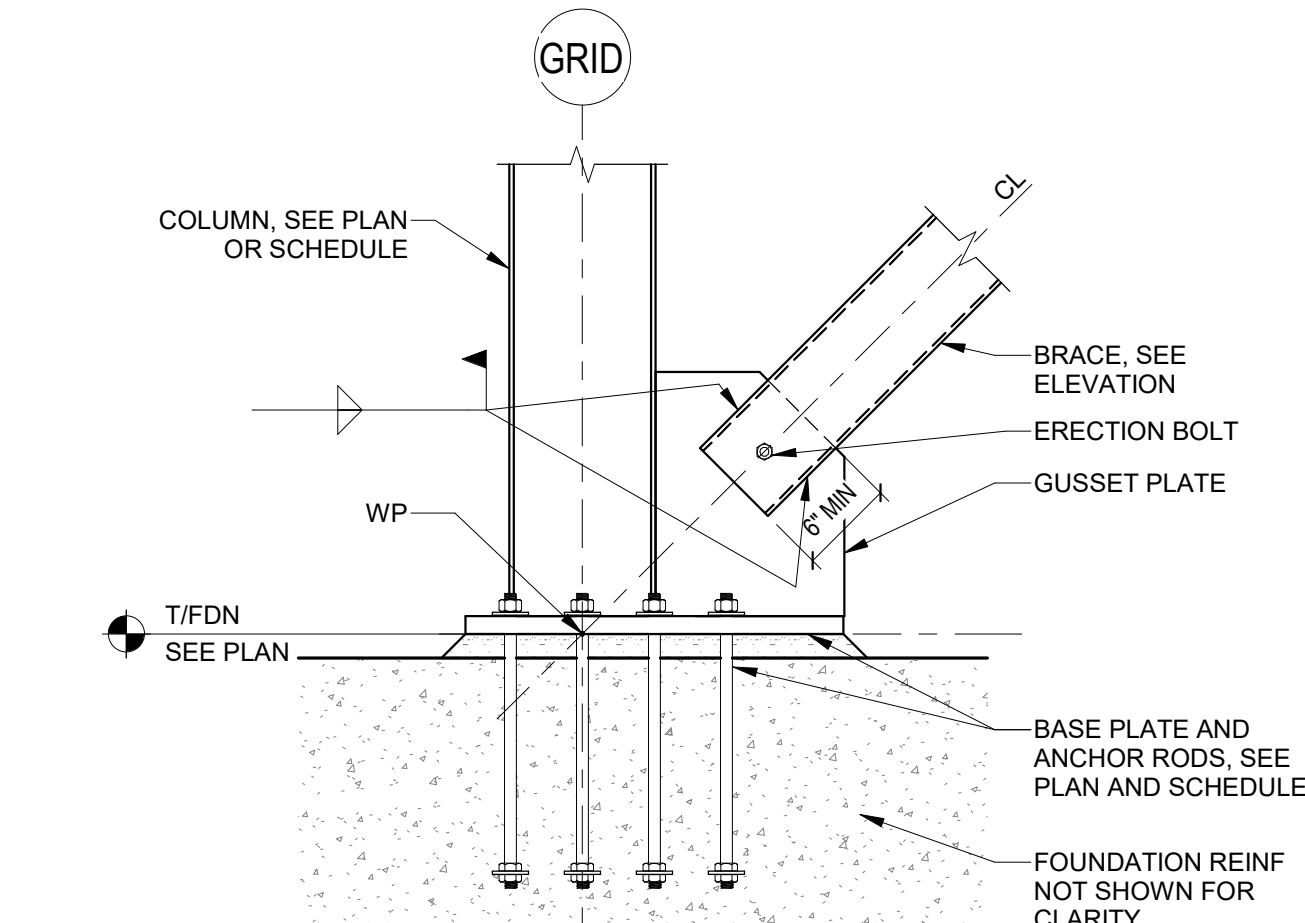
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BRACE FRAME
ELEVATIONS &
DETAILS

S5.01

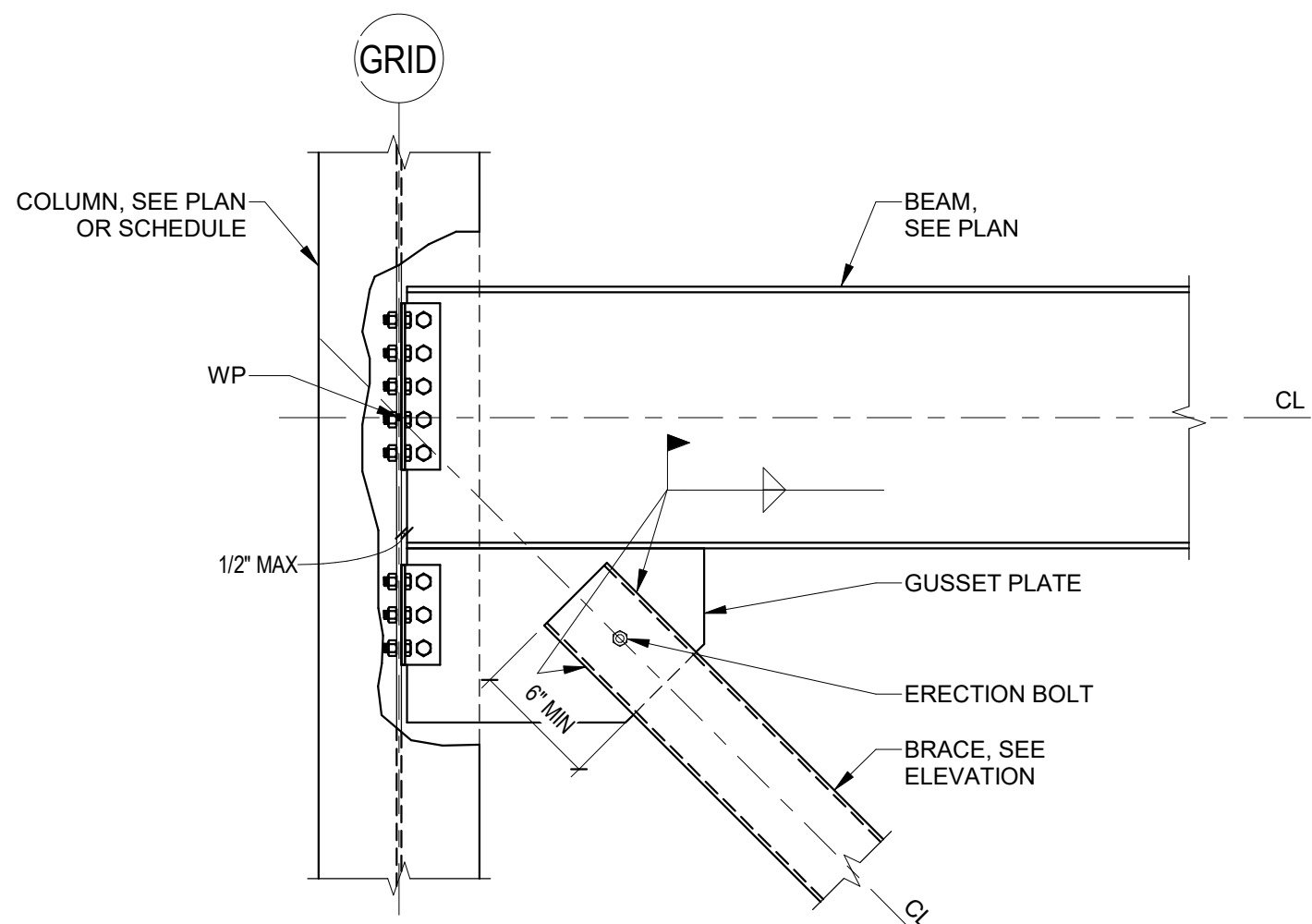
D



- NOTES:
1. SEE PLANS AND ELEVATIONS FOR MEMBER SIZES, BEAM REACTIONS, AND BRACE FORCES.
 2. FABRICATOR SHALL DESIGN CONNECTION FOR THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE.
 3. DETAIL IS SCHEMATIC; FABRICATOR SHALL DESIGN ALL CONNECTION COMPONENTS INCLUDING GUSSET PLATES, STIFFENER PLATES, WEB DOUBLERS, BOLTS, AND WELDS AS REQUIRED FOR CONNECTION FORCES.
 4. OTHER STRUCTURAL SCOPE INCLUDING DECK, SLAB, AND ADDITIONAL FRAMING MEMBERS MAY BE OMITTED FOR CLARITY.

1 TYPICAL BRACED FRAME DETAIL
\$5.02 SCALE: 3/4" = 1'-0"
BP REF [SS2504]

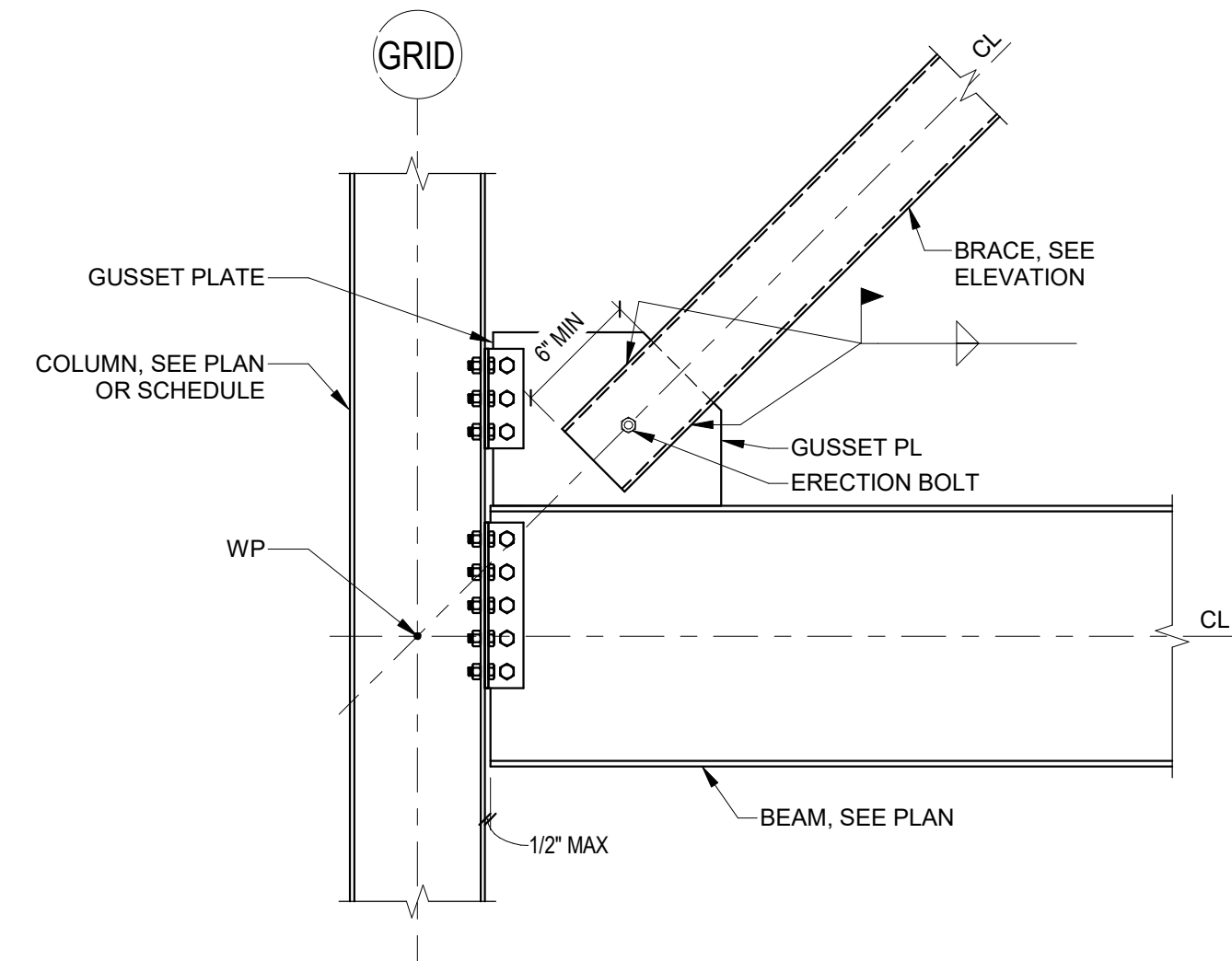
C



- NOTES:
1. SEE PLANS AND ELEVATIONS FOR MEMBER SIZES, BEAM REACTIONS, AND BRACE FORCES.
 2. FABRICATOR SHALL DESIGN CONNECTION FOR THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE IN ADDITION TO THE BEAM REACTION.
 3. DETAIL IS SCHEMATIC; FABRICATOR SHALL DESIGN ALL CONNECTION COMPONENTS INCLUDING GUSSET PLATES, STIFFENER PLATES, WEB DOUBLERS, BOLTS, AND WELDS AS REQUIRED FOR CONNECTION FORCES.
 4. OTHER STRUCTURAL SCOPE INCLUDING DECK, SLAB, AND ADDITIONAL FRAMING MEMBERS MAY BE OMITTED FOR CLARITY.

5 TYPICAL BRACED FRAME DETAIL
\$5.02 SCALE: 3/4" = 1'-0"
BP REF [SS2520]

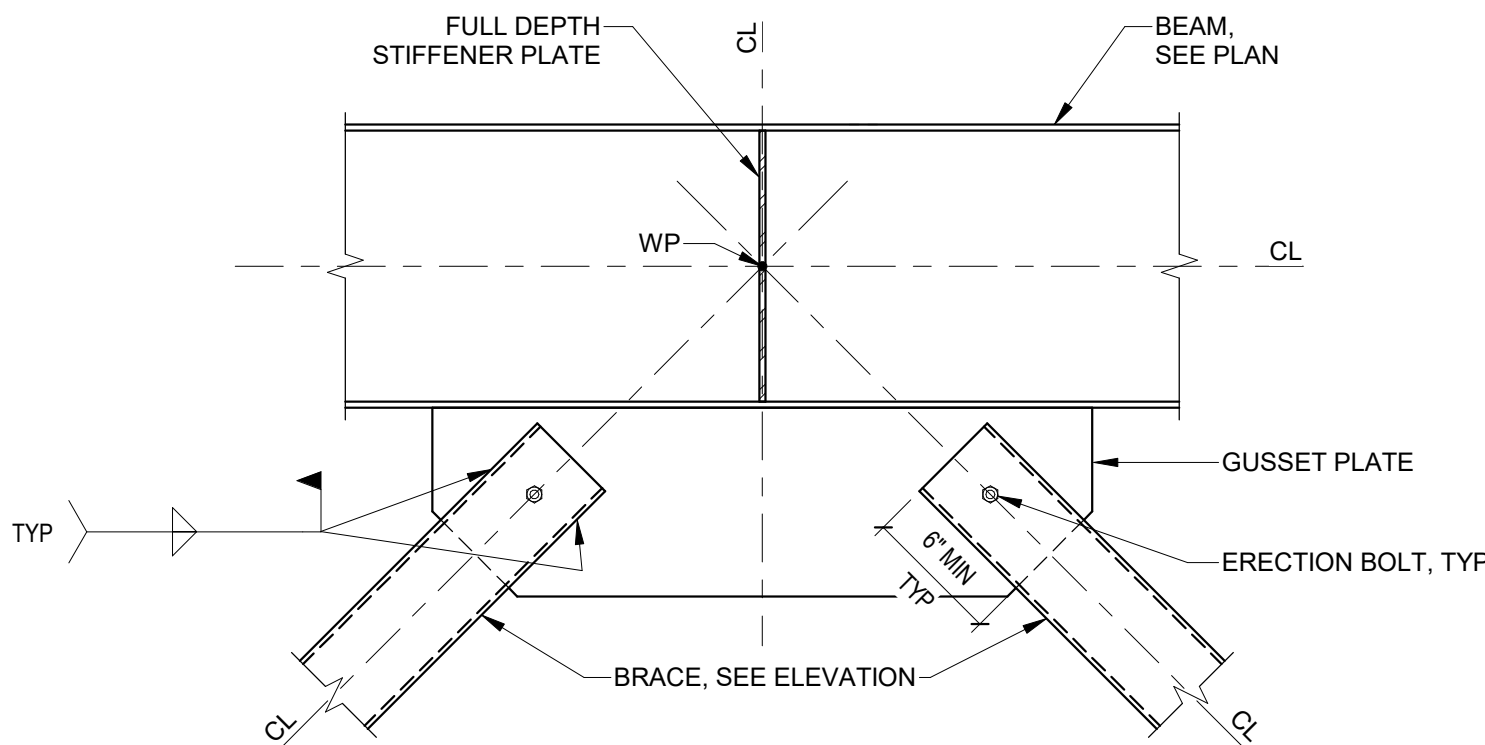
B



- NOTES:
1. SEE PLANS AND ELEVATIONS FOR MEMBER SIZES, BEAM REACTIONS, AND BRACE FORCES.
 2. FABRICATOR SHALL DESIGN CONNECTION FOR THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE IN ADDITION TO THE BEAM REACTION.
 3. DETAIL IS SCHEMATIC; FABRICATOR SHALL DESIGN ALL CONNECTION COMPONENTS INCLUDING GUSSET PLATES, STIFFENER PLATES, WEB DOUBLERS, BOLTS, AND WELDS AS REQUIRED FOR CONNECTION FORCES.
 4. OTHER STRUCTURAL SCOPE INCLUDING DECK, SLAB, AND ADDITIONAL FRAMING MEMBERS MAY BE OMITTED FOR CLARITY.

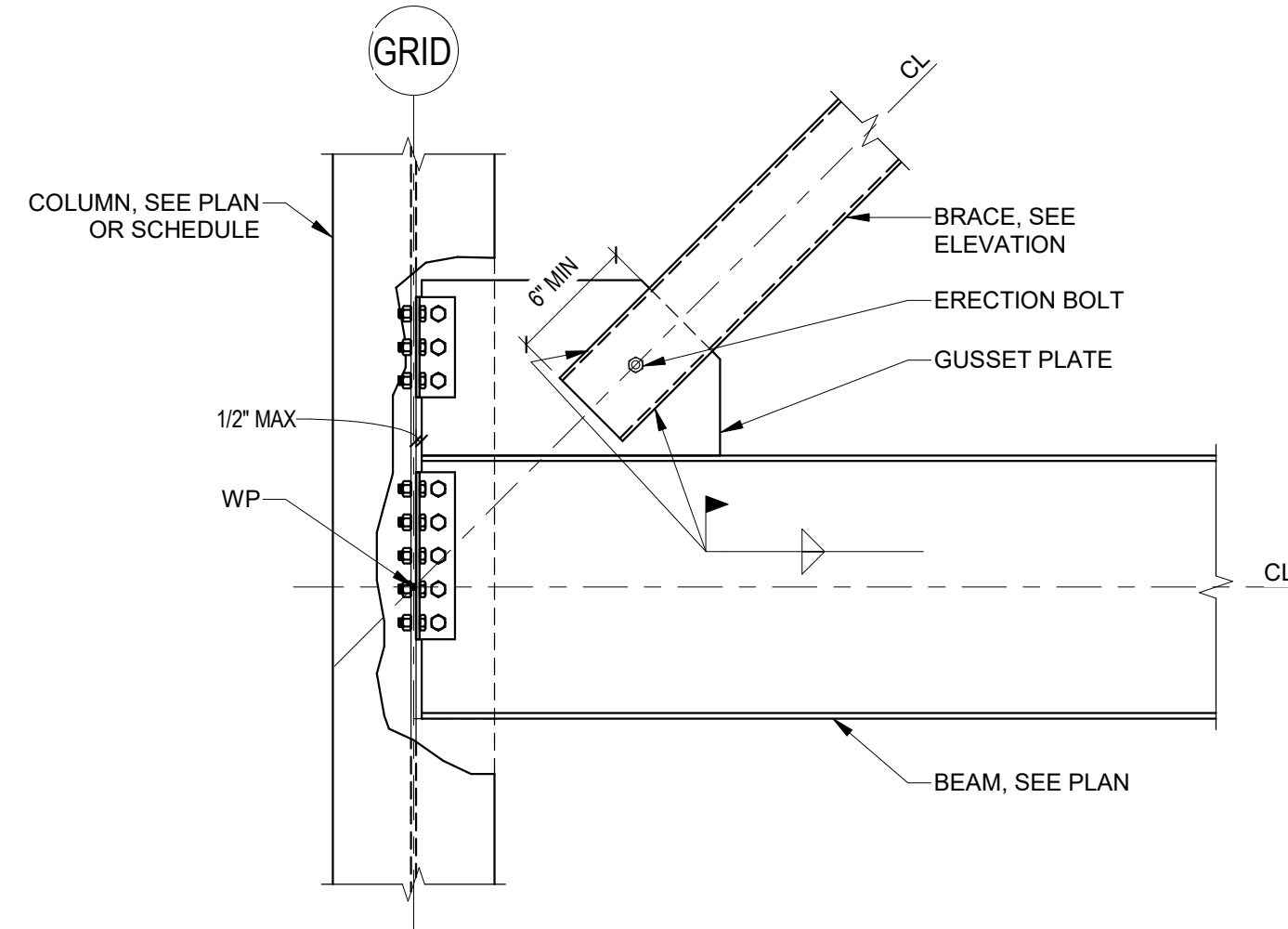
9 TYPICAL BRACED FRAME DETAIL
\$5.02 SCALE: 3/4" = 1'-0"
BP REF [SS2531]

A



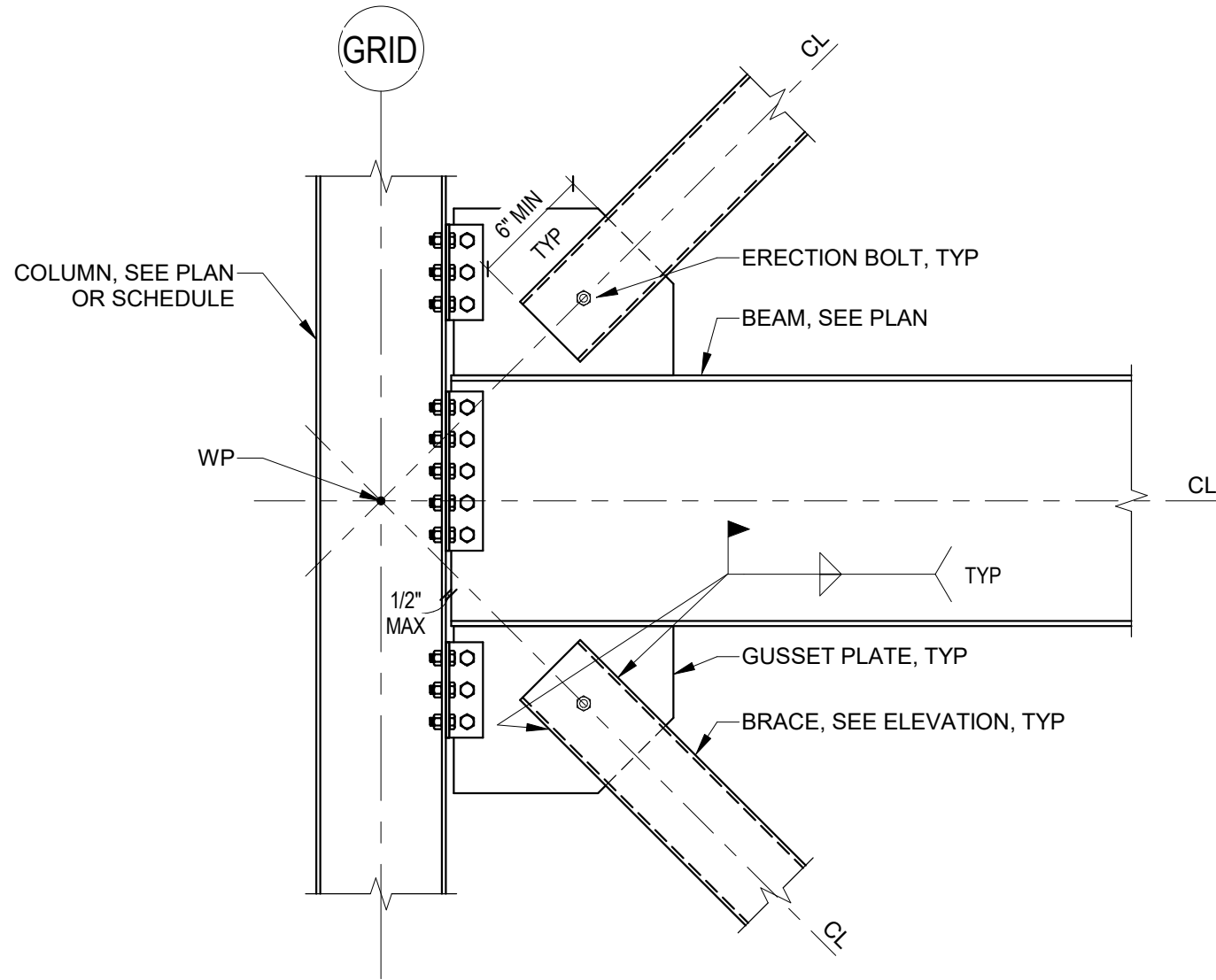
- NOTES:
1. SEE PLANS AND ELEVATIONS FOR MEMBER SIZES, BEAM REACTIONS, AND BRACE FORCES.
 2. FABRICATOR SHALL DESIGN CONNECTION FOR THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE.
 3. DETAIL IS SCHEMATIC; FABRICATOR SHALL DESIGN ALL CONNECTION COMPONENTS INCLUDING GUSSET PLATES, STIFFENER PLATES, WEB DOUBLERS, BOLTS, AND WELDS AS REQUIRED FOR CONNECTION FORCES.
 4. OTHER STRUCTURAL SCOPE INCLUDING DECK, SLAB, AND ADDITIONAL FRAMING MEMBERS MAY BE OMITTED FOR CLARITY.

2 TYPICAL BRACED FRAME DETAIL
\$5.02 SCALE: 3/4" = 1'-0"
BP REF [SS2511]



- NOTES:
1. SEE PLANS AND ELEVATIONS FOR MEMBER SIZES, BEAM REACTIONS, AND BRACE FORCES.
 2. FABRICATOR SHALL DESIGN CONNECTION FOR THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE IN ADDITION TO THE BEAM REACTION.
 3. DETAIL IS SCHEMATIC; FABRICATOR SHALL DESIGN ALL CONNECTION COMPONENTS INCLUDING GUSSET PLATES, STIFFENER PLATES, WEB DOUBLERS, BOLTS, AND WELDS AS REQUIRED FOR CONNECTION FORCES.
 4. OTHER STRUCTURAL SCOPE INCLUDING DECK, SLAB, AND ADDITIONAL FRAMING MEMBERS MAY BE OMITTED FOR CLARITY.

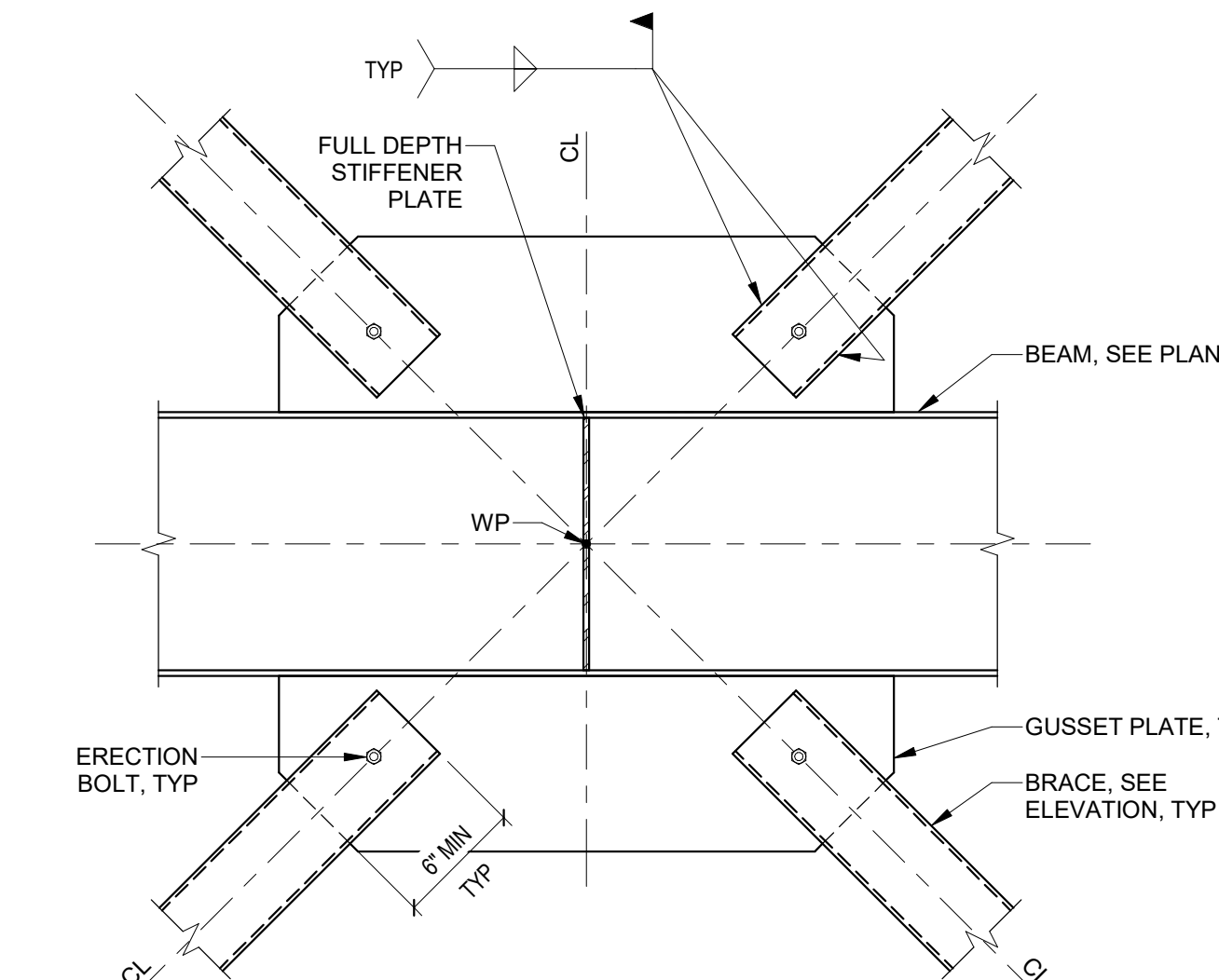
6 TYPICAL BRACED FRAME DETAIL
\$5.02 SCALE: 3/4" = 1'-0"
BP REF [SS2521]



- NOTES:
1. SEE PLANS AND ELEVATIONS FOR MEMBER SIZES, BEAM REACTIONS, AND BRACE FORCES.
 2. FABRICATOR SHALL DESIGN CONNECTION FOR THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE IN ADDITION TO THE BEAM REACTION.
 3. DETAIL IS SCHEMATIC; FABRICATOR SHALL DESIGN ALL CONNECTION COMPONENTS INCLUDING GUSSET PLATES, STIFFENER PLATES, WEB DOUBLERS, BOLTS, AND WELDS AS REQUIRED FOR CONNECTION FORCES.
 4. OTHER STRUCTURAL SCOPE INCLUDING DECK, SLAB, AND ADDITIONAL FRAMING MEMBERS MAY BE OMITTED FOR CLARITY.

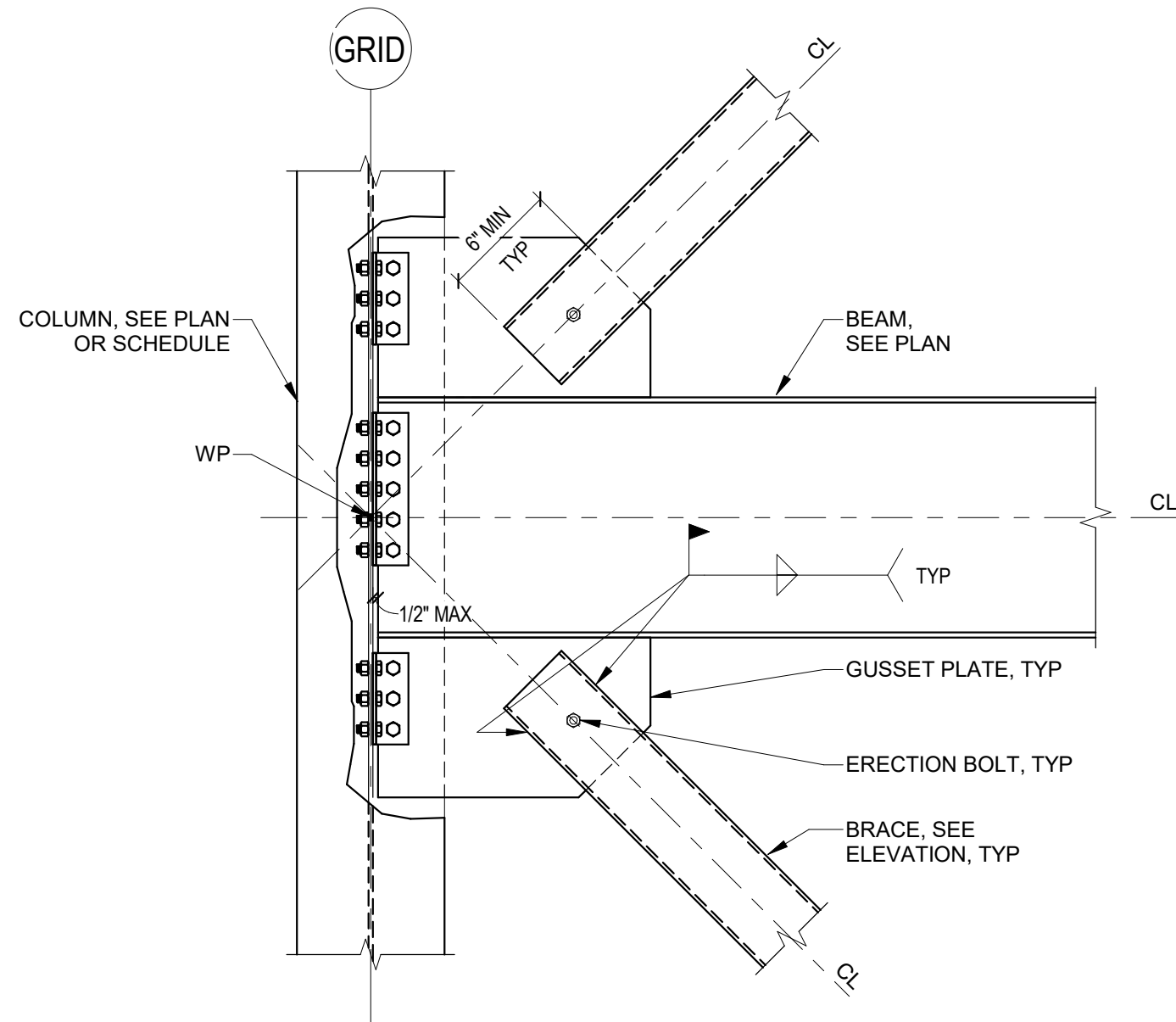
10 TYPICAL BRACED FRAME DETAIL
\$5.02 SCALE: 3/4" = 1'-0"
BP REF [SS2531]

2



- NOTES:
1. SEE PLANS AND ELEVATIONS FOR MEMBER SIZES, BEAM REACTIONS, AND BRACE FORCES.
 2. FABRICATOR SHALL DESIGN CONNECTION FOR THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE.
 3. DETAIL IS SCHEMATIC; FABRICATOR SHALL DESIGN ALL CONNECTION COMPONENTS INCLUDING GUSSET PLATES, STIFFENER PLATES, WEB DOUBLERS, BOLTS, AND WELDS AS REQUIRED FOR CONNECTION FORCES.
 4. OTHER STRUCTURAL SCOPE INCLUDING DECK, SLAB, AND ADDITIONAL FRAMING MEMBERS MAY BE OMITTED FOR CLARITY.

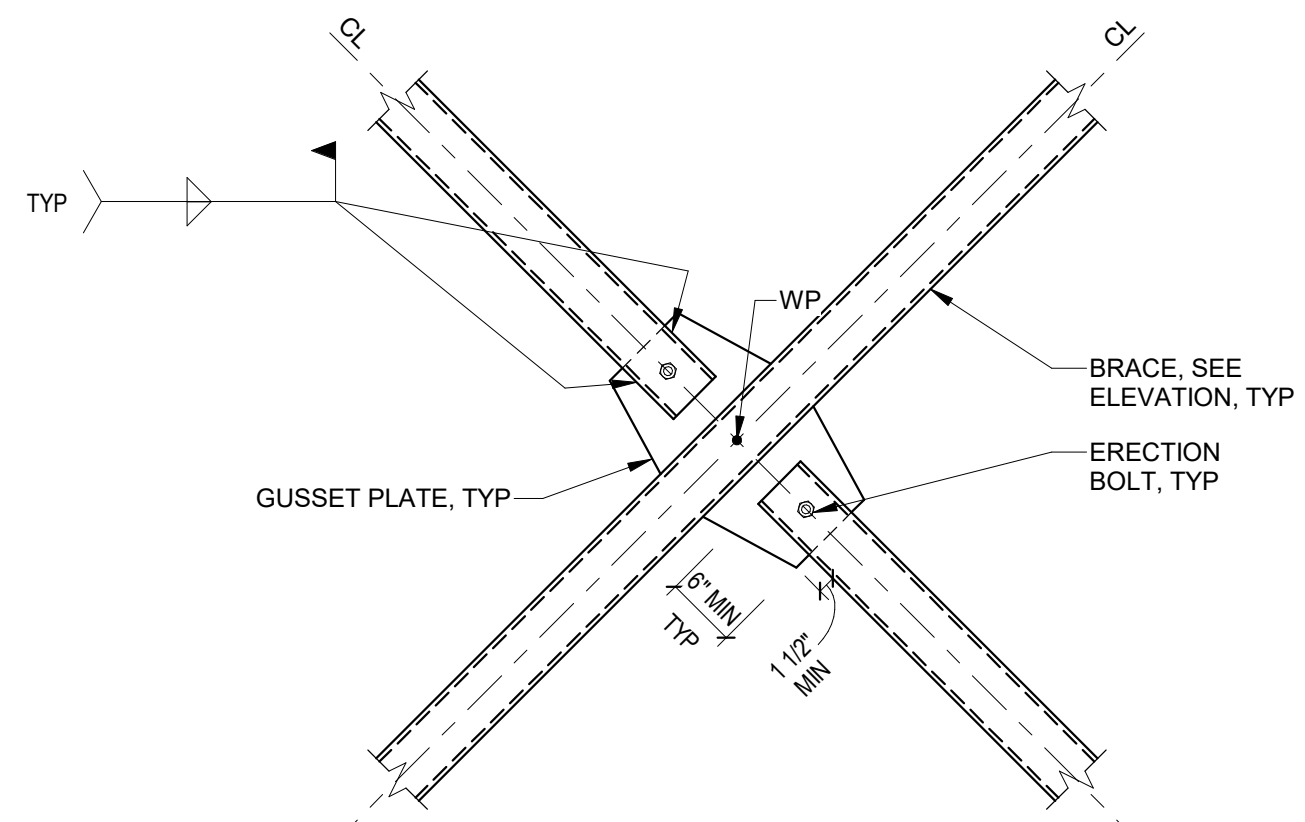
3 TYPICAL BRACED FRAME DETAIL
\$5.02 SCALE: NO SCALE
BP REF [SS2513]



- NOTES:
1. SEE PLANS AND ELEVATIONS FOR MEMBER SIZES, BEAM REACTIONS, AND BRACE FORCES.
 2. FABRICATOR SHALL DESIGN CONNECTION FOR THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE IN ADDITION TO THE BEAM REACTION.
 3. DETAIL IS SCHEMATIC; FABRICATOR SHALL DESIGN ALL CONNECTION COMPONENTS INCLUDING GUSSET PLATES, STIFFENER PLATES, WEB DOUBLERS, BOLTS, AND WELDS AS REQUIRED FOR CONNECTION FORCES.
 4. OTHER STRUCTURAL SCOPE INCLUDING DECK, SLAB, AND ADDITIONAL FRAMING MEMBERS MAY BE OMITTED FOR CLARITY.

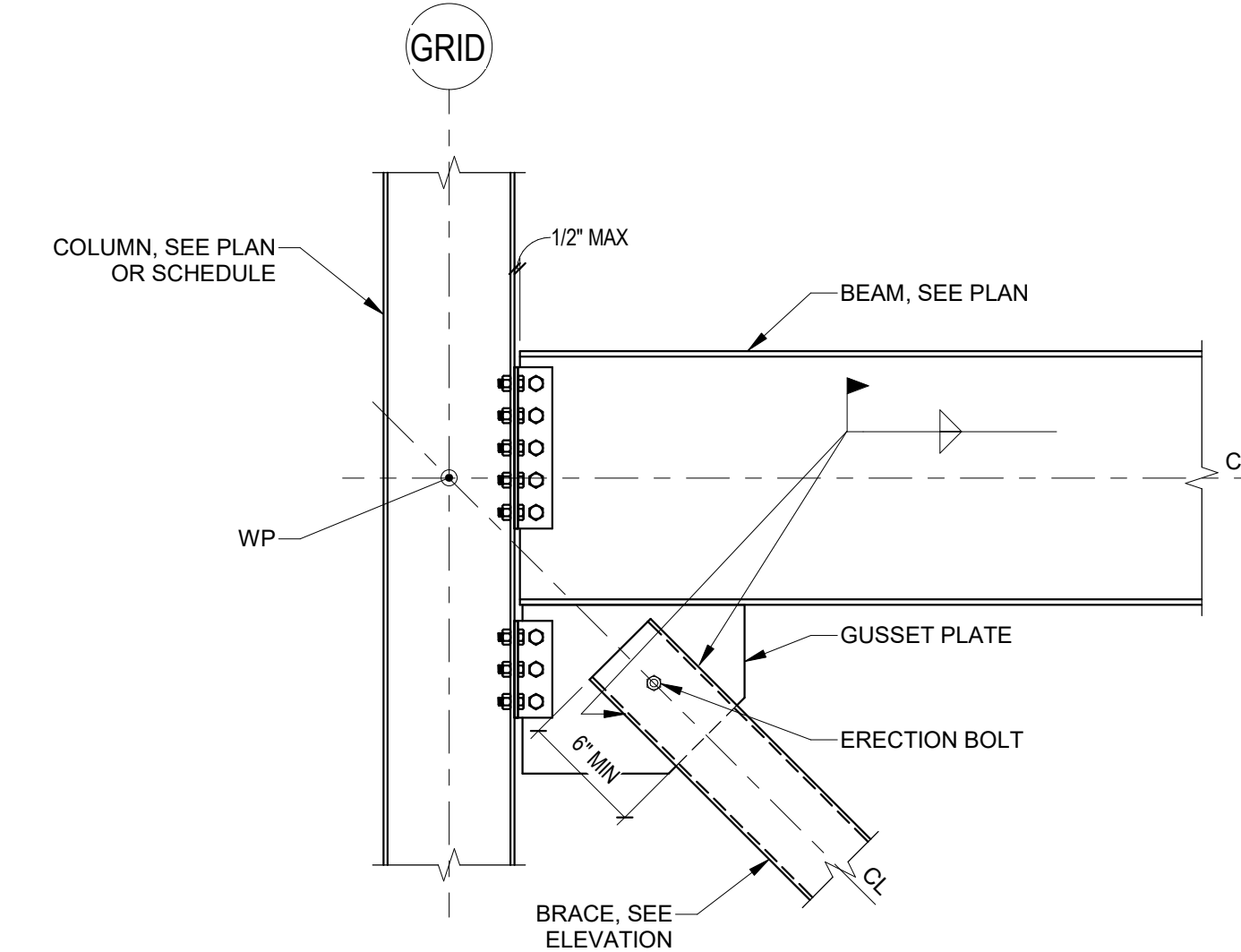
7 TYPICAL BRACED FRAME DETAIL
\$5.02 SCALE: 3/4" = 1'-0"
BP REF [SS2522]

3



- NOTES:
1. SEE PLANS AND ELEVATIONS FOR MEMBER SIZES, BEAM REACTIONS, AND BRACE FORCES.
 2. FABRICATOR SHALL DESIGN CONNECTION FOR THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE.
 3. DETAIL IS SCHEMATIC; FABRICATOR SHALL DESIGN ALL CONNECTION COMPONENTS INCLUDING GUSSET PLATES, STIFFENER PLATES, WEB DOUBLERS, BOLTS, AND WELDS AS REQUIRED FOR CONNECTION FORCES.
 4. OTHER STRUCTURAL SCOPE INCLUDING DECK, SLAB, AND ADDITIONAL FRAMING MEMBERS MAY BE OMITTED FOR CLARITY.

4 TYPICAL BRACED FRAME DETAIL
\$5.02 SCALE: 3/4" = 1'-0"
BP REF [SS2514]



- NOTES:
1. SEE PLANS AND ELEVATIONS FOR MEMBER SIZES, BEAM REACTIONS, AND BRACE FORCES.
 2. FABRICATOR SHALL DESIGN CONNECTION FOR THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE IN ADDITION TO THE BEAM REACTION.
 3. DETAIL IS SCHEMATIC; FABRICATOR SHALL DESIGN ALL CONNECTION COMPONENTS INCLUDING GUSSET PLATES, STIFFENER PLATES, WEB DOUBLERS, BOLTS, AND WELDS AS REQUIRED FOR CONNECTION FORCES.
 4. OTHER STRUCTURAL SCOPE INCLUDING DECK, SLAB, AND ADDITIONAL FRAMING MEMBERS MAY BE OMITTED FOR CLARITY.

8 TYPICAL BRACED FRAME DETAIL
\$5.02 SCALE: 3/4" = 1'-0"
BP REF [SS2530]

4

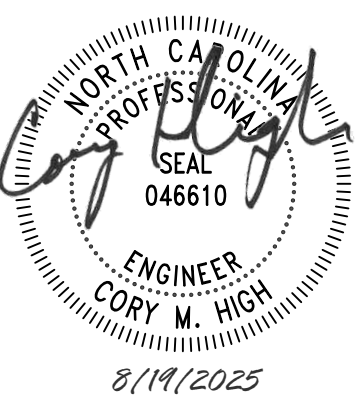
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Engineering Certification No. F-1105



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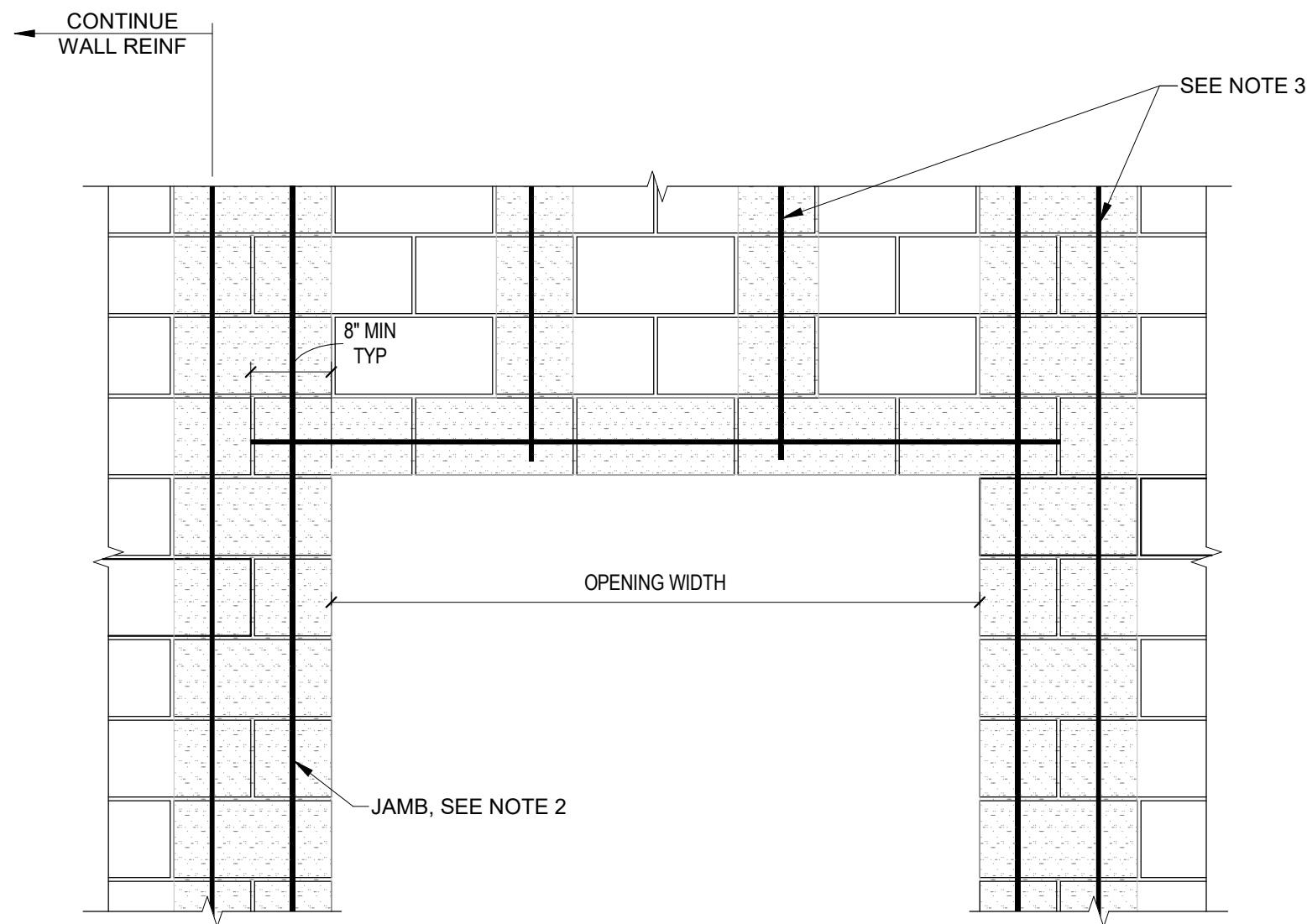
Package: CONSTRUCTION DOCUMENTS
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Date: AUGUST 19, 2025

BRACE FRAME
DETAILS

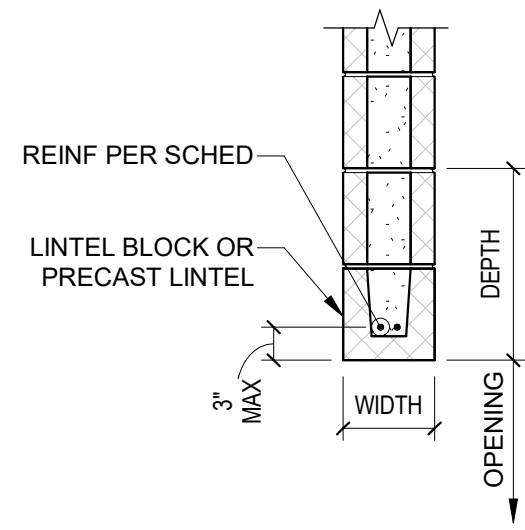
S5.02

5

D



ELEVATION



SECTION

WALL TYPE	OPENING WIDTH	NOMINAL LINTEL SIZE (WIDTH X DEPTH)	REINF
6\" CMU	UP TO 6' - 0"	6\" X 16"	(1)#5

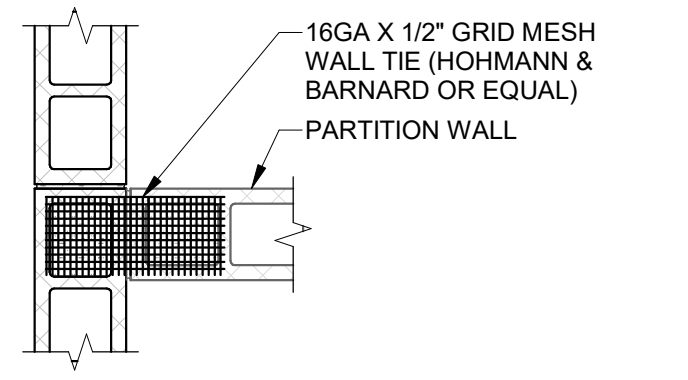
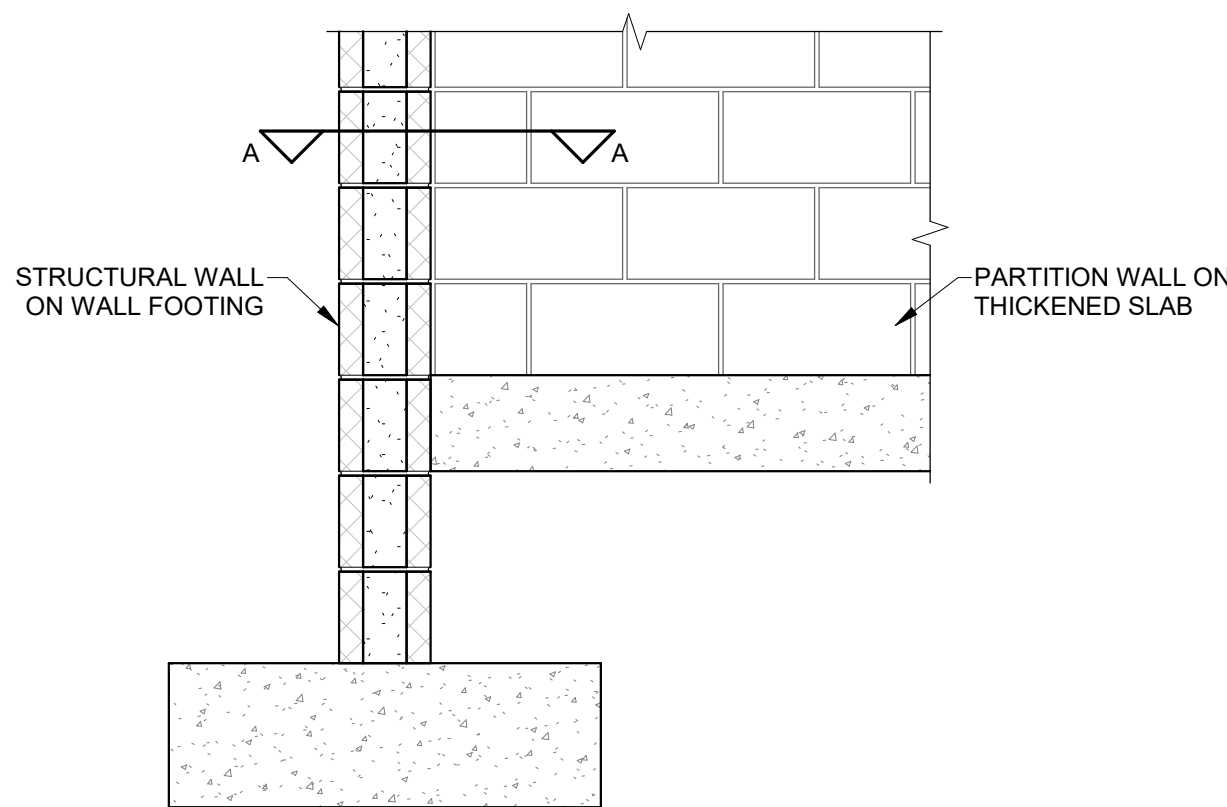
SCHEDULE

NOTES:

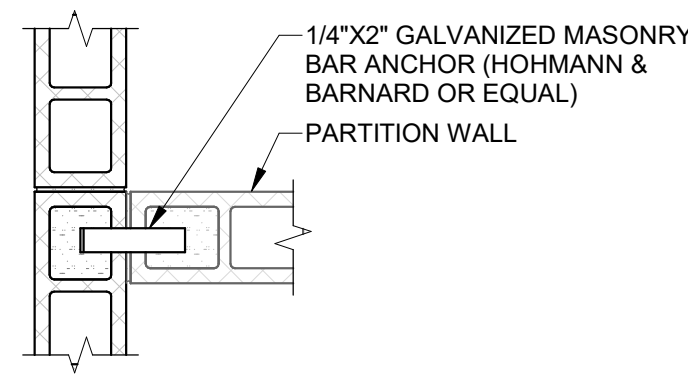
- SCHEDULE SHALL BE USED FOR NON-LOAD BEARING INTERIOR PARTITION WALLS ONLY.
- JAMBS ON EACH SIDE OF OPENING SHALL CONSIST OF MINIMUM (1) REINFORCED CELL WITH REINF TO MATCH TYPICAL WALL REINF BEYOND.
- TYPICAL WALL REINF SHALL BE PLACED ABOVE THE OPENING. WHERE AN OPENING INTERRUPTS VERTICAL BARS, EQUIVALENT BARS SHALL BE SPLIT EQUALLY TO EACH SIDE OF THE OPENING AND PLACED IN CELLS ADJACENT TO THE JAMBS.
- CONTROL JOINTS SHALL NOT BE LOCATED WITHIN 2' - 0\"/>

1 TYPICAL PARTITION WALL LINTEL SCHEDULE

SCALE: N/A
BP REF [CMU4320]



A-A OPTION 1



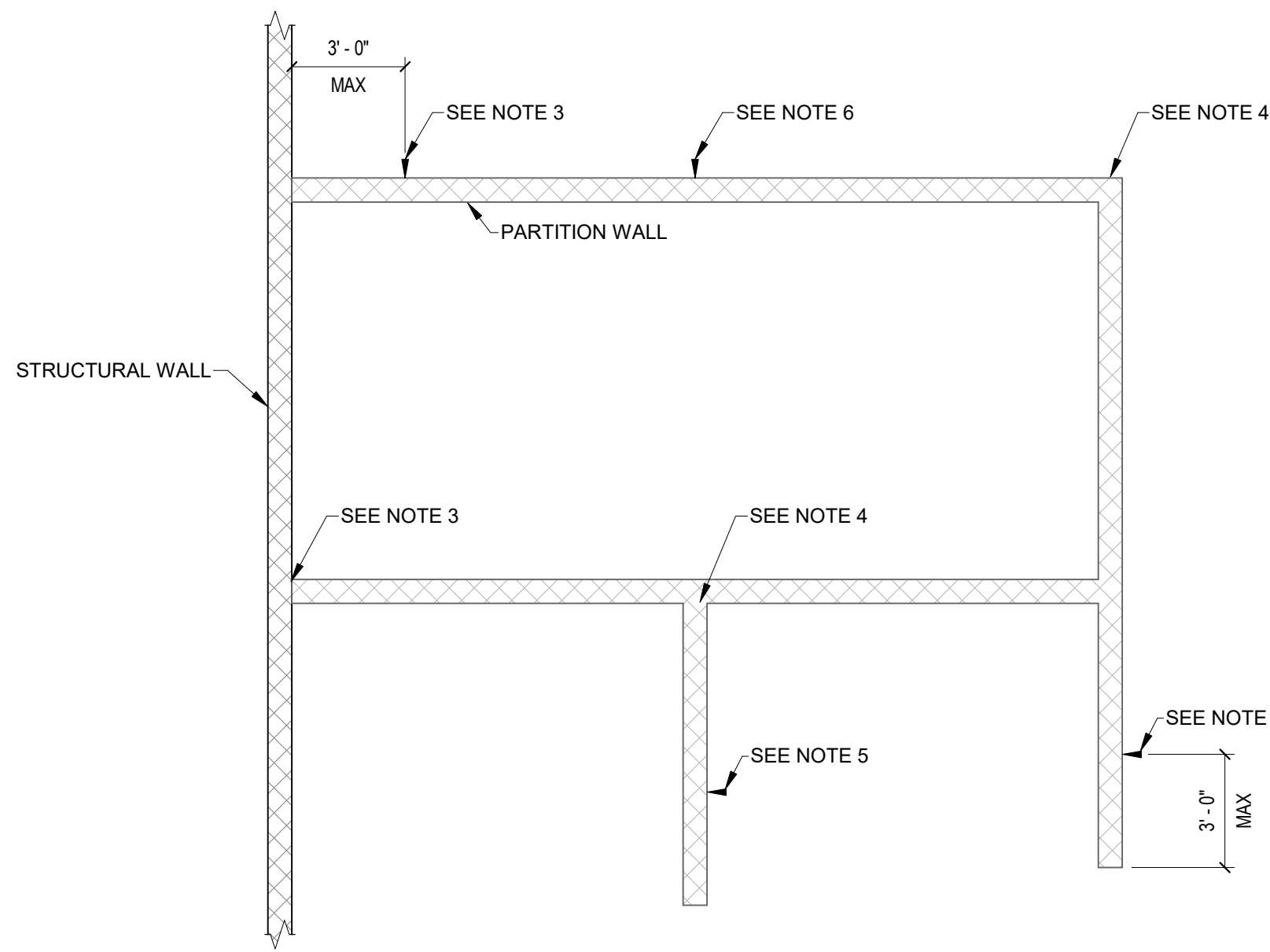
A-A OPTION 2

NOTES:

- WHERE NON-LOAD BEARING PARTITION WALLS INTERSECT WITH LOAD-BEARING STRUCTURAL WALLS, PARTITION WALL SHALL BE Laterally BRACED TO STRUCTURAL WALL WITH MASONRY MESH WALL TIES (OPTION 1) OR MASONRY BAR ANCHORS (OPTION 2) AT 16\"/>
- ALTERNATIVELY, ENDS OF PARTITION WALLS THAT ARE NOT CONNECTED TO STRUCTURAL WALLS SHALL BE CONSIDERED AS A FREE END AND SHALL BE BRACED AT THE TOP OF THE WALL PER PARTITION WALL BRACING DETAILS.
- BOND BEAMS AND LADDER REINFORCEMENT SHALL NOT BE CONTINUOUS ACROSS JOINTS FROM PARTITION WALLS TO STRUCTURAL WALLS.

5 PARTITION WALL INTERSECTION WITH STRUCT WALL

SCALE: N/A
BP REF [CMU4308]

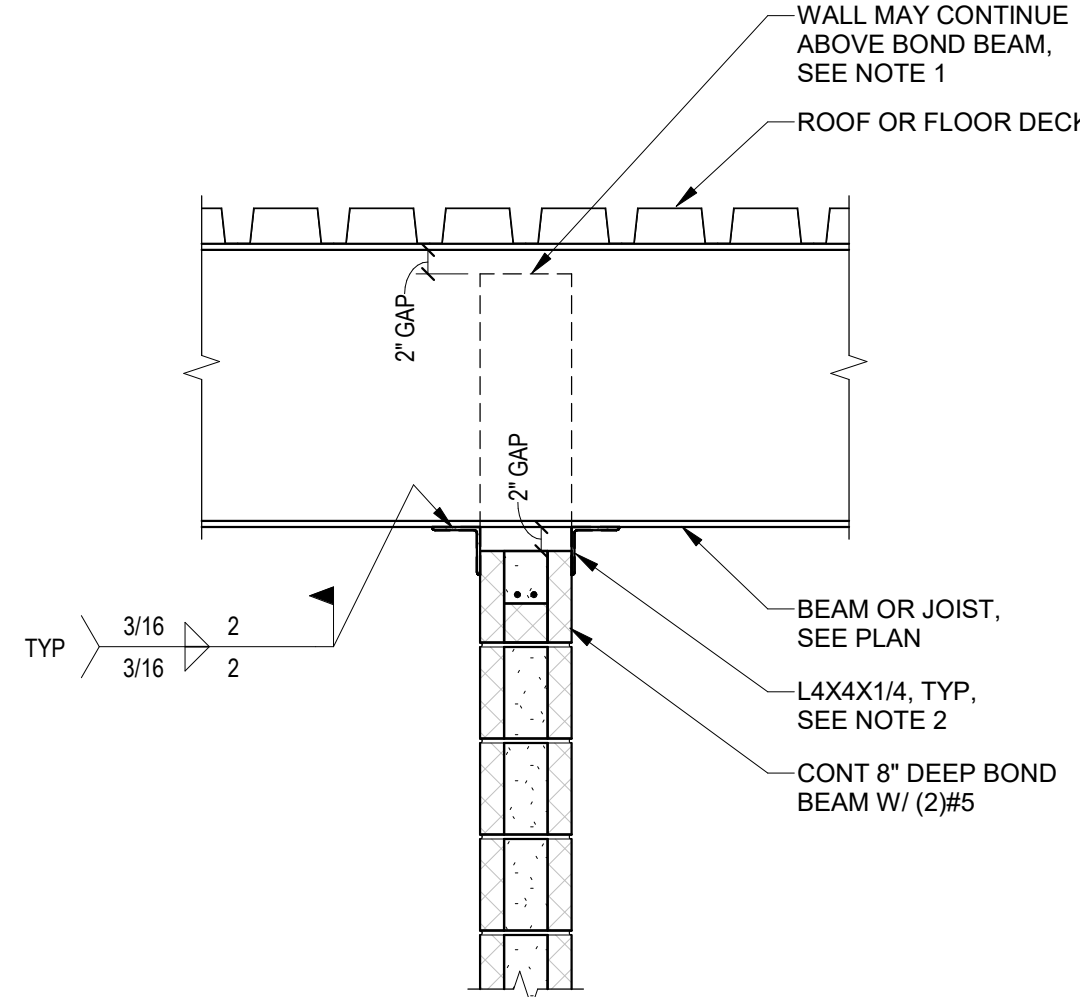


NOTES:

- UNO, PARTITION WALLS SHALL BE BRACED OUT-OF-PLANE AT TOP OF WALL PER TYPICAL DETAILS.
- INDICATES APPROXIMATE LOCATION OF BRACE. CONTRACTOR FIELD COORDINATE EXACT BRACE LOCATIONS BASED ON WALL GEOMETRY.
- WHERE A PARTITION WALL FRAMES INTO A STRUCTURAL WALL, THE PARTITION WALL IS CONSIDERED BRACED BY THE STRUCTURAL WALL IF THE WALLS ARE TIED TOGETHER WITH MESH WALL TIES OR BAR ANCHORS PER TYPICAL DETAILS. ALTERNATIVELY, THE END OF THE PARTITION WALL SHALL BE CONSIDERED A FREE END AND SHALL BE BRACED WITHIN 3'-0\"/>
- WHERE PARTITION WALLS INTERSECT AT 90 DEGREES AND ARE BUILT INTEGRALLY IN RUNNING BOND, THE WALLS ARE CONSIDERED TO BRACE ONE ANOTHER OUT-OF-PLANE.
- FREE ENDS OF WALLS SHALL BE BRACED WITHIN 3'-0\"/>
- WALLS SHALL BE BRACED ALONG THEIR LENGTH BY ANY COMBINATION OF INTERSECTING WALLS OR BRACING AT A MAXIMUM SPACING OF 12'-0\"/>

3 SCHEMATIC PARTITION WALL BRACING PLAN

SCALE: 1/4\"/>

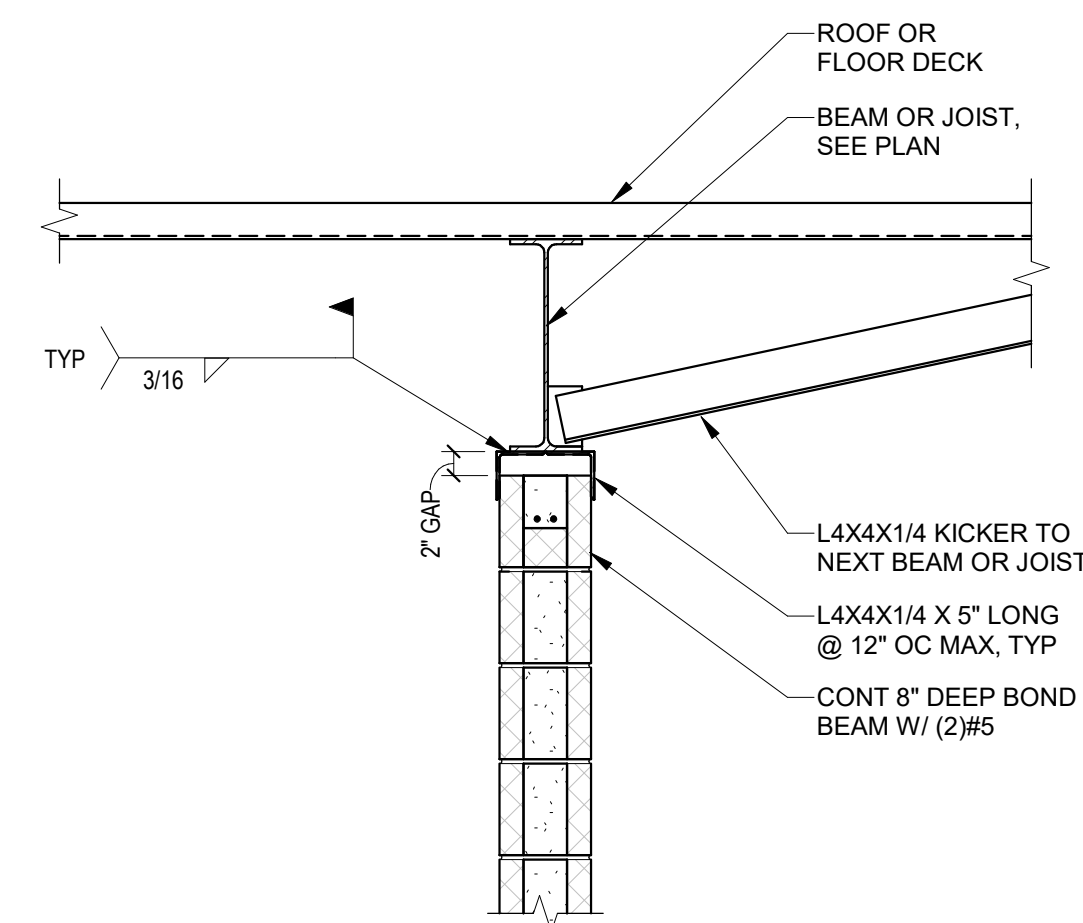


NOTES:

- WALL MAY BE CONTINUED ABOVE BOND BEAM WITH ADDITIONAL CMU OR METAL STUD. SEE ARCH DETAILS. MAINTAIN CONTINUOUS VERTICAL REINF FOR CMU EXTENSION. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK FOR METAL STUD EXTENSION.
- FIELD CUT ANGLES 1\"/>

6 BRACING AT TOP OF INTERIOR PARTITION WALL - PERPENDICULAR FRAMING

SCALE: 3/4\"/>

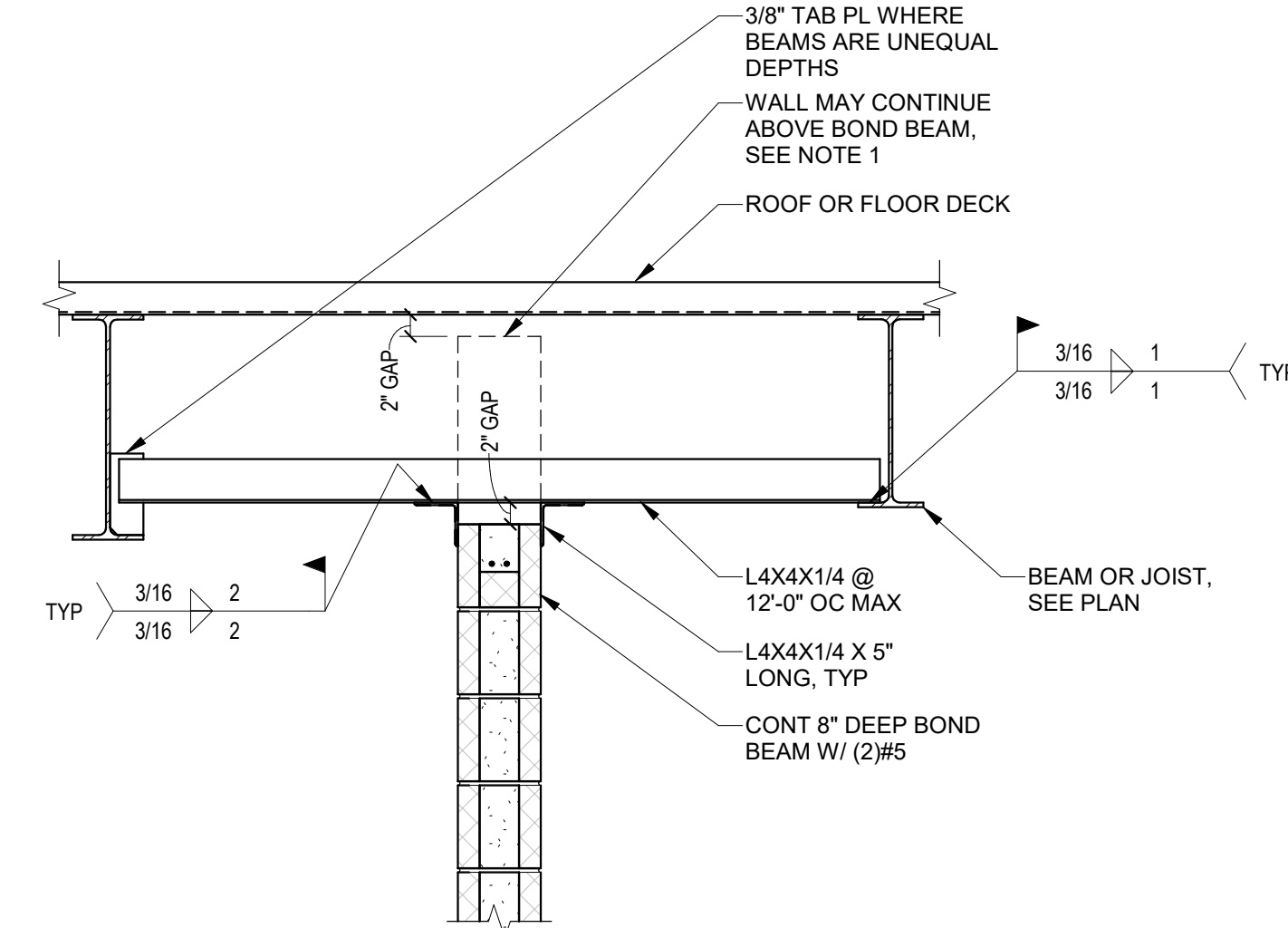


NOTES:

- WALL MAY BE CONTINUED ABOVE BOND BEAM WITH ADDITIONAL CMU OR METAL STUD. SEE ARCH DETAILS. MAINTAIN CONTINUOUS VERTICAL REINF FOR CMU EXTENSION. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK FOR METAL STUD EXTENSION.

7 BRACING AT TOP OF INTERIOR PARTITION WALL - ALIGNED FRAMING

SCALE: 3/4\"/>



NOTES:

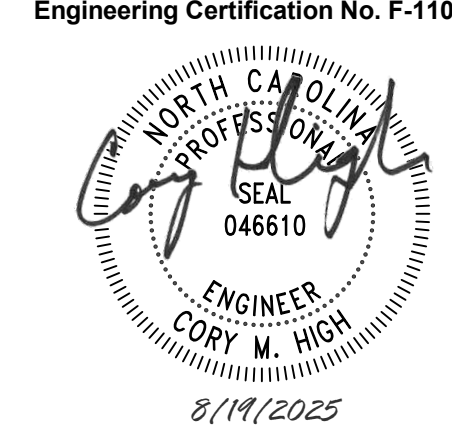
- WALL MAY BE CONTINUED ABOVE BOND BEAM WITH ADDITIONAL CMU OR METAL STUD. SEE ARCH DETAILS. MAINTAIN CONTINUOUS VERTICAL REINF FOR CMU EXTENSION. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK FOR METAL STUD EXTENSION.

4 BRACING AT TOP OF INTERIOR PARTITION WALL - PARALLEL FRAMING

SCALE: 3/4\"/>

C

A



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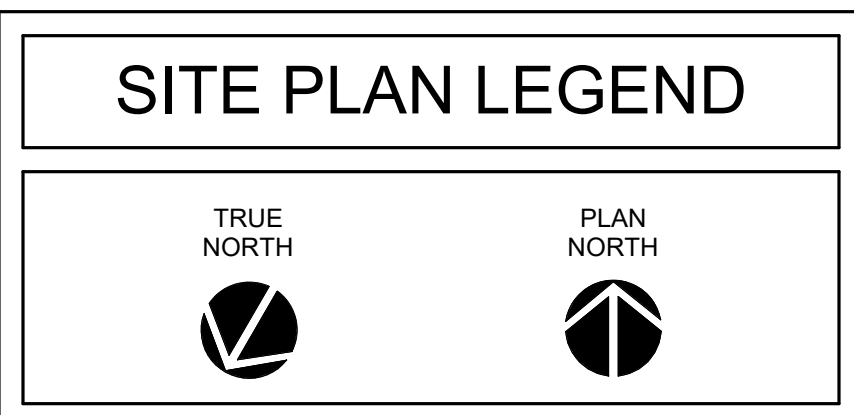
TYPICAL CMU
DETAILS

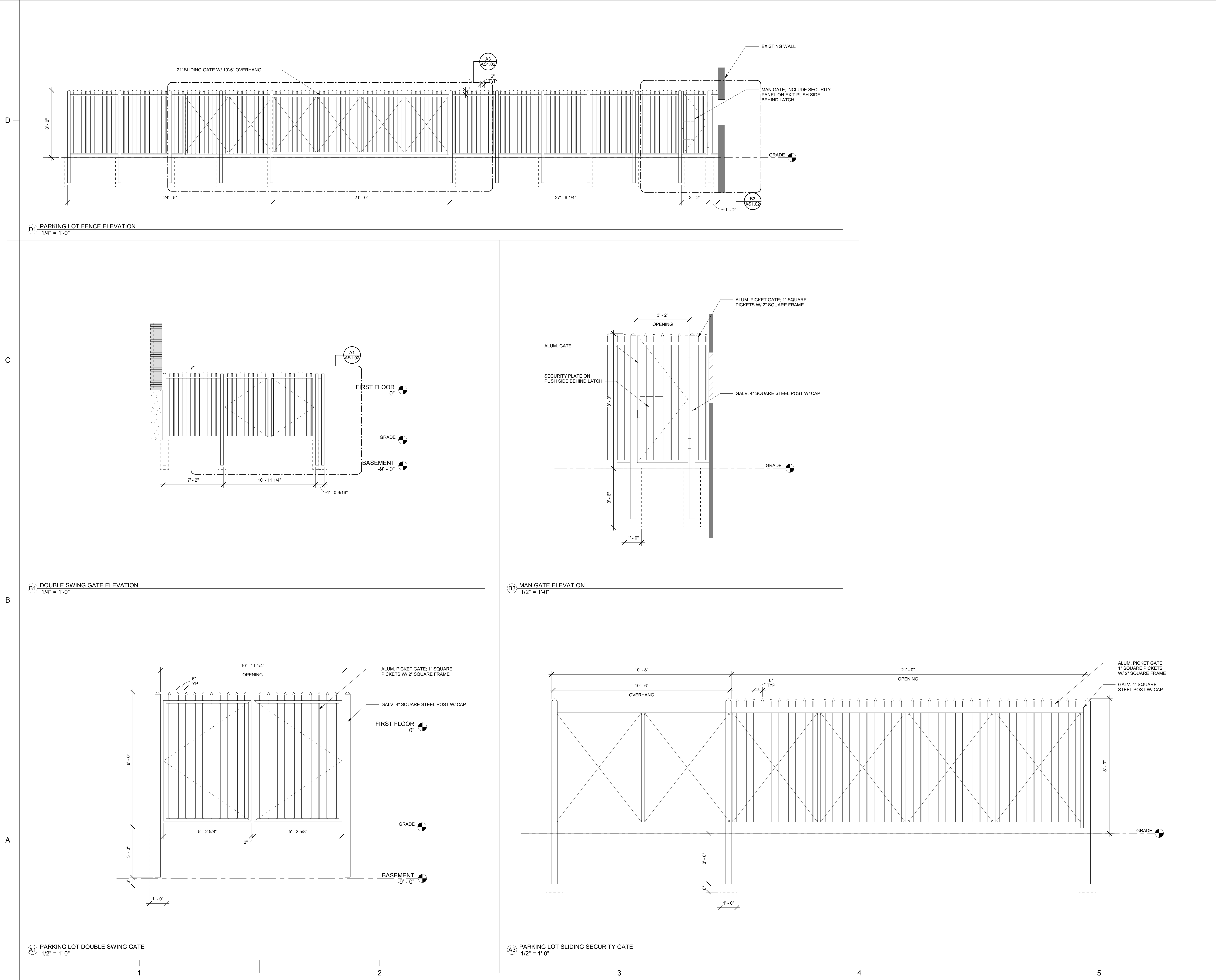
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Project Number:	2023-001-01
Date:	JULY 7, 2025

AS1.01





JULY 7, 2025



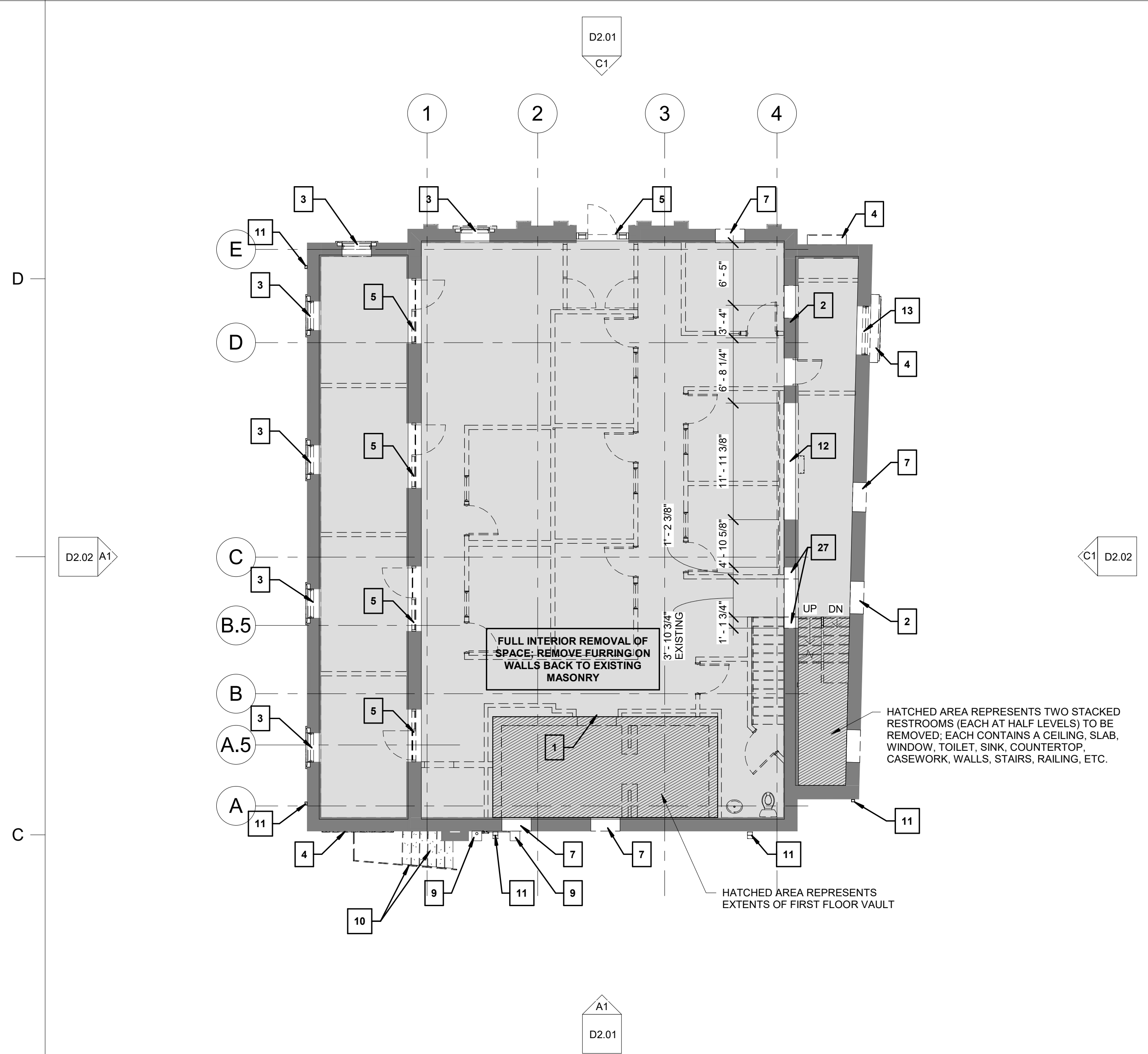
CANTON POLICE STATION RENO

No.	Description	Date

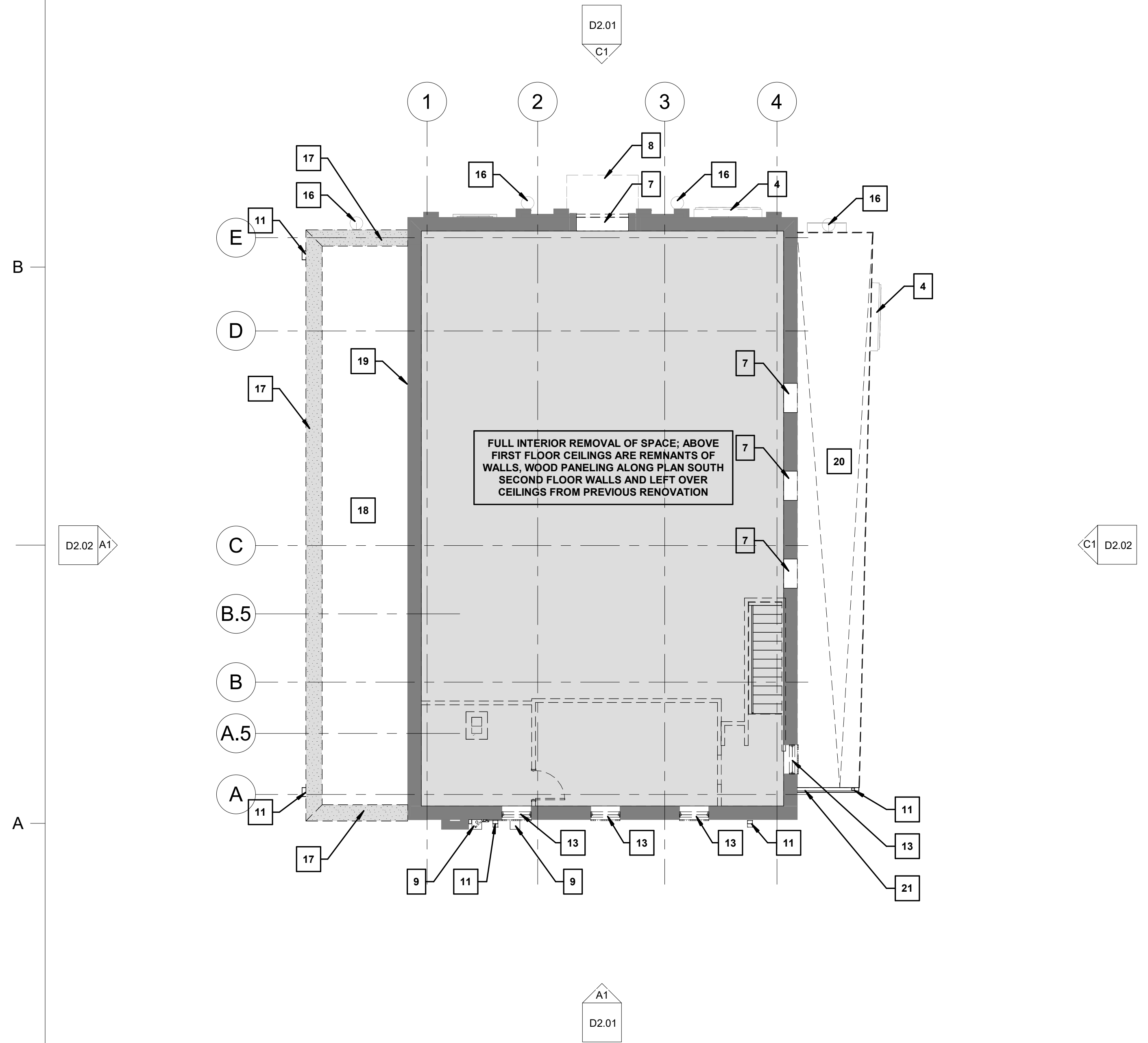
Package: CONSTRUCTION DOCUMENTS
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SITE PLAN DETAILS

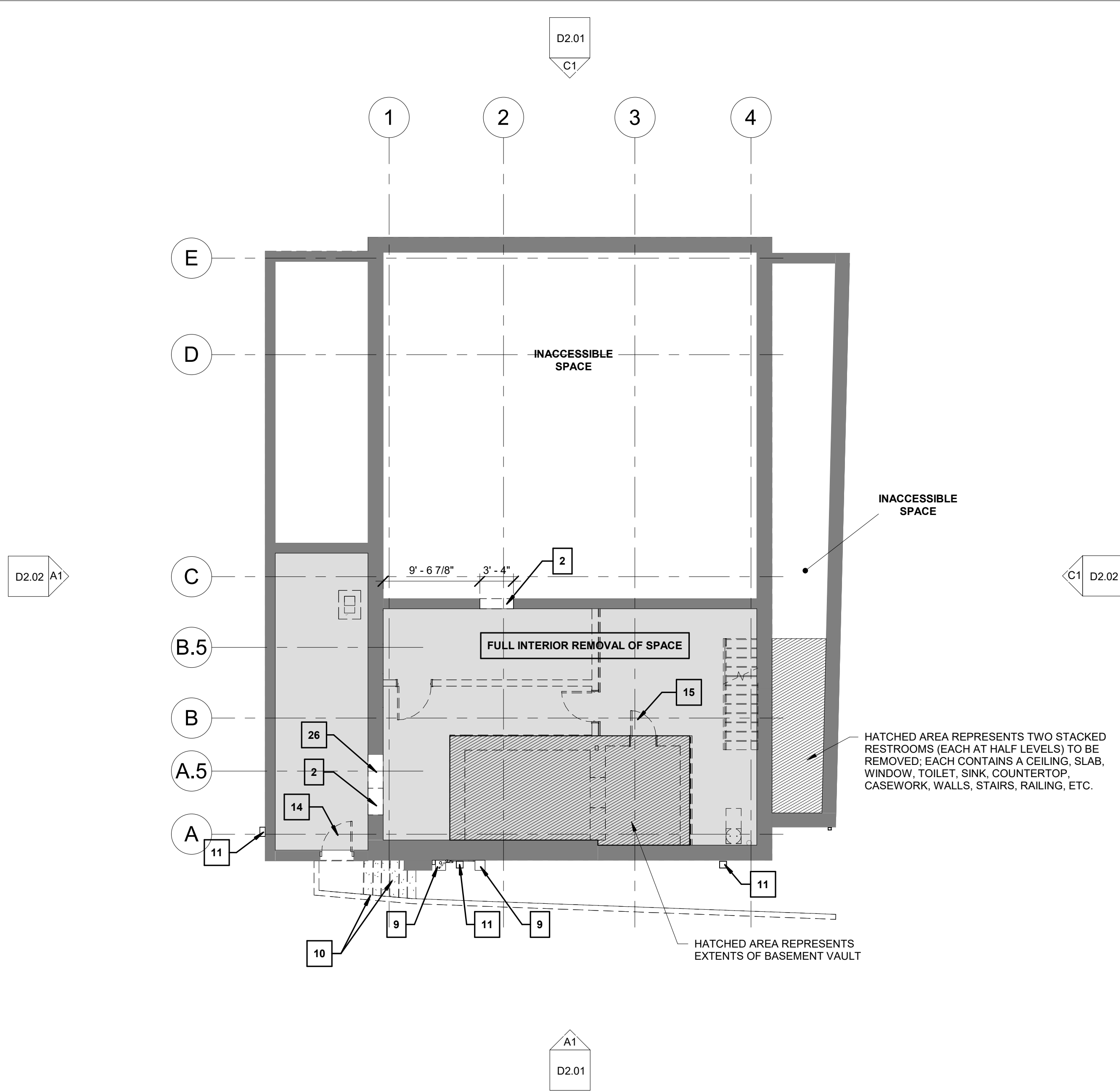
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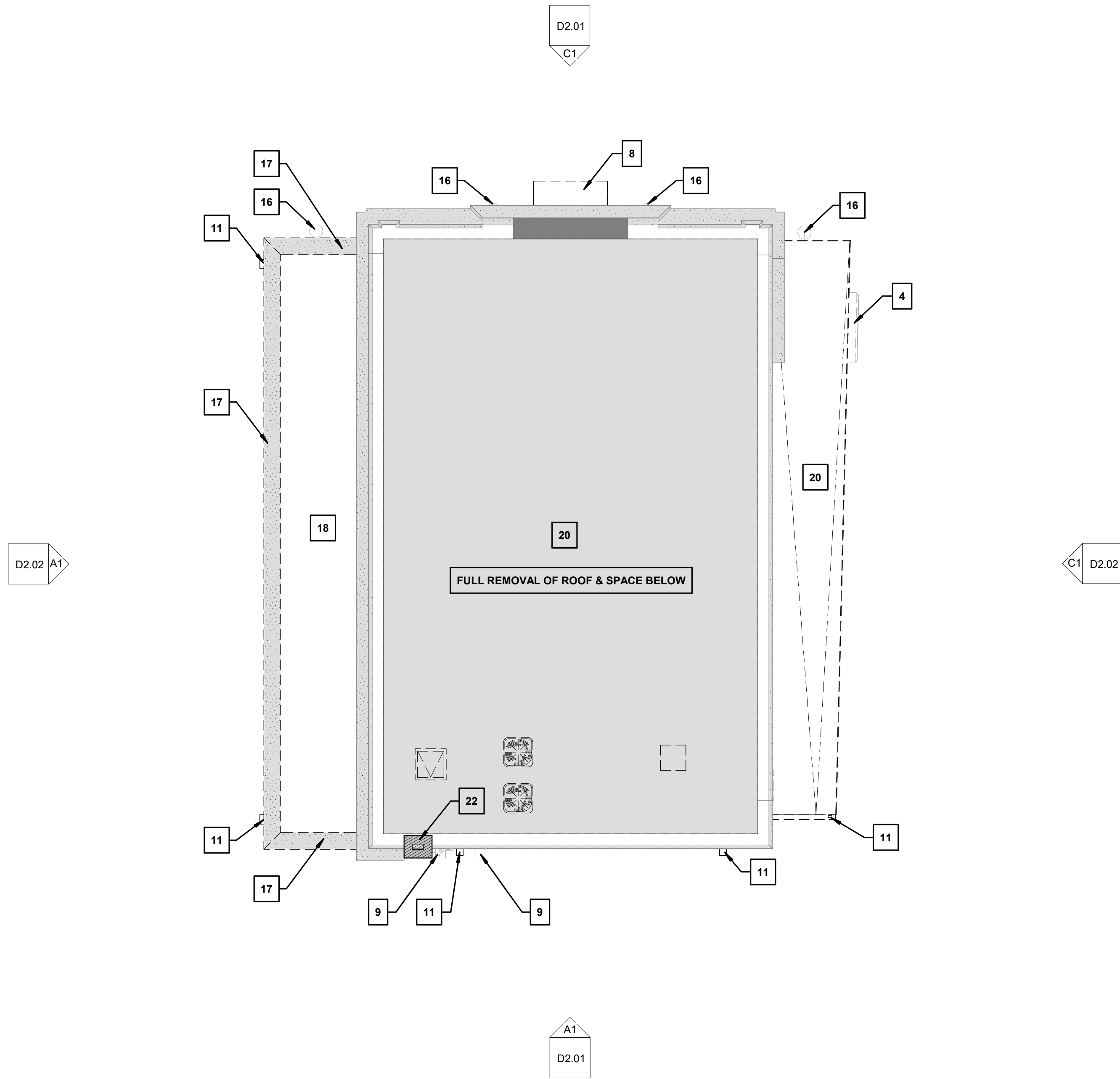
C1 DEMO FIRST FLOOR PLAN
1/8" = 1'-0"



A1 DEMO SECOND FLOOR PLAN
1/8" = 1'-0"



C3 DEMO BASEMENT PLAN
1/8" = 1'-0"



A3 DEMO ROOF PLAN
1/8" = 1'-0"

DEMOLITION LEGEND	
#	DESCRIPTION
1	REMOVE EXISTING VAULT DOOR AND GATE; SAVE FOR REUSE; COORDINATE WITH OWNER
2	CREATE OPENING FOR NEW DOOR
3	REMOVE GLAZING, FRAME & SURROUND; RETAIN UNDAMAGED PORTIONS OF SURROUND FOR REUSE; REPAIR LINTEL IF POSSIBLE OR REMOVE IF DAMAGED
4	REMOVE SIGNAGE
5	REMOVE EXISTING DOOR, FRAME & GLAZING
6	REMOVE FEC & SAVE FOR REUSE
7	CREATE OPENING FOR NEW WINDOW
8	REMOVE CANOPY & SUPPORTS OVER FRONT ENTRANCE
9	REMOVE EXISTING EQUIPMENT
10	REMOVE EXISTING CONCRETE STAIR, RETAINING WALL & RAILING
11	REMOVE DOWNSPOUT AND SCUPPER; INFILL OPENING FROM SCUPPER
12	CREATE OPENING IN WALL
13	REMOVE GLAZING, FRAME & SILL; REPAIR LINTEL IF POSSIBLE OR REMOVE IF DAMAGED
14	REMOVE EXISTING DOOR & ASSOCIATED FRAME
15	REMOVE EXISTING VAULT DOOR, SAVE FOR REUSE; COORDINATE WITH OWNER
16	REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE
17	REPAIR STONE COPING; REMOVE AND REPLACE SECTIONS DAMAGED BEYOND REPAIR
18	REMOVE ROOFING SYSTEM DOWN TO ROOF STRUCTURE
20	REMOVE ROOFING SYSTEM INCLUDING STRUCTURE
21	REMOVE GUTTER & DOWNSPOUT
22	REMOVE SECTION OF MASONRY CHIMNEY; PREP TO RECEIVE COPING; RETAIN
23	REMOVE SECTION OF EXISTING WALL; PREP TO RECEIVE NEW WALL & ROOF ABOVE; RETAIN UNDAMAGED BRICK FOR REUSE
24*	REMOVE SECTION OF DAMAGED BRICK AND REPAIR
25	REMOVE GLAZING, FRAME, SILL & LINTEL
26	INFILL EXISTING OPENING
27	WIDEN EXISTING OPENING

GENERAL DEMOLITION NOTES	
1.	INTERIOR FINISHES TO BE REMOVED IN ALL EXISTING SPACES INCLUDING BUT NOT LIMITED TO CARPET, TILE, WALL COVERING, VCT, ETC. EXISTING SLAB TO BE PREPARED TO RECEIVE NEW FINISHES. WALLS WITH WALL COVERING OR TILE REMOVED SHOULD BE SKIM-COATED AND PREPARED TO RECEIVE NEW FINISHES.
2.	WHERE PARTIAL WALLS ARE BEING DEMOLISHED LEAVE CLEAN EDGE REMAINING TO FACILITATE NEW ADJACENT WALL SURFACE.
3.	ALL NEW OPENINGS IN THE INTERIOR AND EXTERIOR TO BE PATCHED TO MATCH THE EXISTING ADJACENT SURFACE IN MATERIAL, DIMENSION, COLOR AND CONDITION.
4.	REMOVE AND RETAIN ALL DESKS AND ATTACHED CASEWORK ON FIRST FLOOR FOR REUSE. COORDINATE WITH OWNER
5.	ALL REMAINING EXISTING MASONRY TO BE CLEANED AND REPAIRED.

LEGEND	
	FULL REMOVAL OF SPACE (I.E. WALLS, FLOORS, SLABS, CEILINGS, STAIRS, DOORS, CASEWORK, ETC.) U.N.O.
	EXISTING WALL TO REMAIN
	EXISTING WALL TO BE REMOVED

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www.creechassociates.com

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JULY 7, 2025



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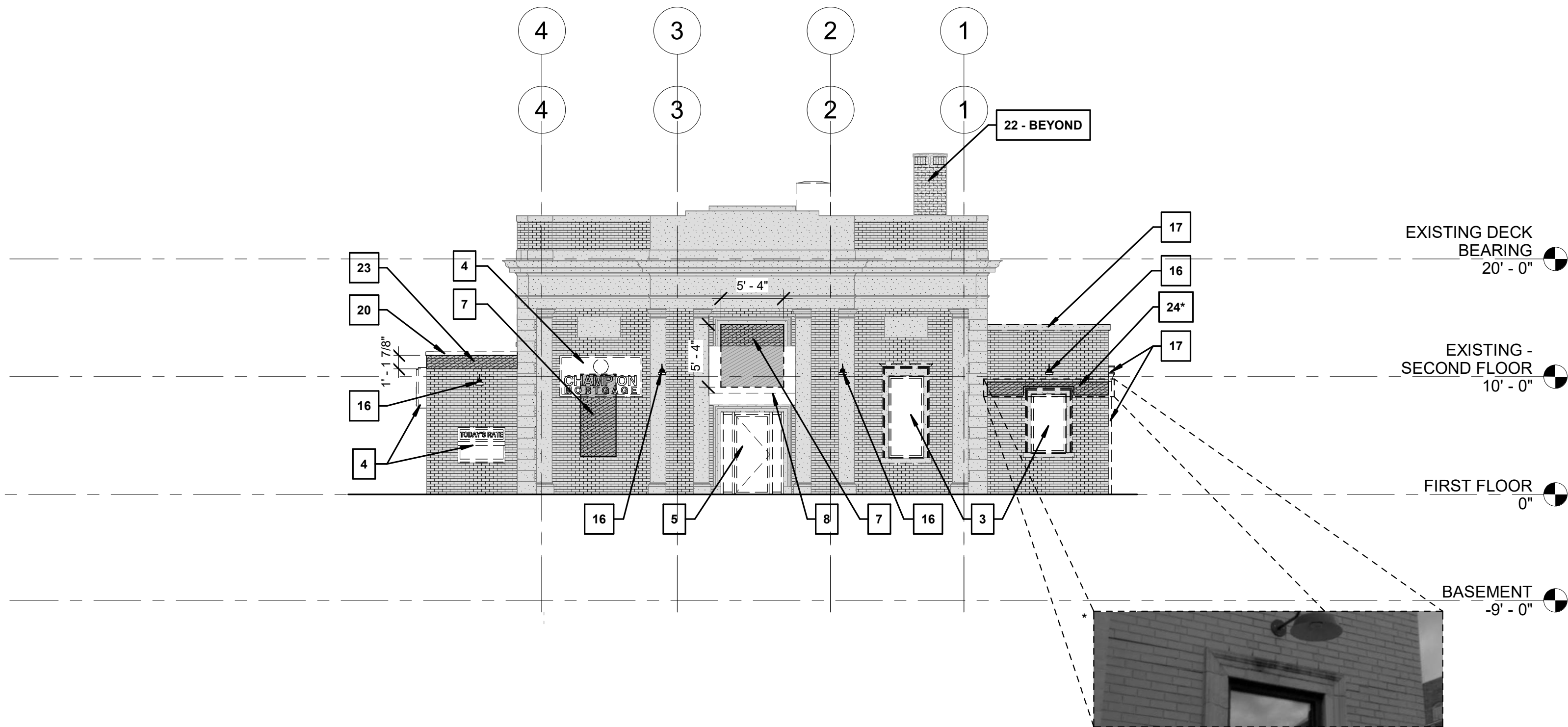
DEMO PLANS

D1.11

D

C

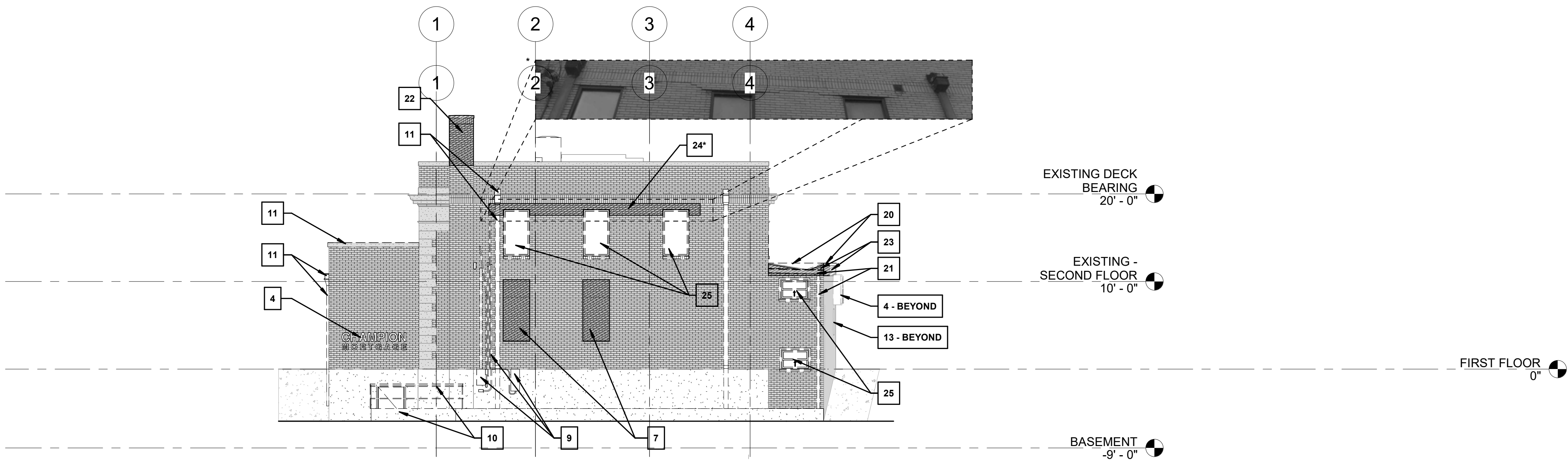
C1 DEMO NORTH ELEVATION
1/8" = 1'-0"



B

A

A1 DEMO SOUTH ELEVATION
1/8" = 1'-0"



DEMOLITION LEGEND

#	DESCRIPTION
1	REMOVE EXISTING VAULT DOOR AND GATE; SAVE FOR REUSE; COORDINATE WITH OWNER
2	CREATE OPENING FOR NEW DOOR
3	REMOVE GLAZING, FRAME & SURROUND; RETAIN UNDAMAGED PORTIONS OF SURROUND FOR REUSE; REPAIR LINTEL IF POSSIBLE OR REMOVE IF DAMAGED
4	REMOVE SIGNAGE
5	REMOVE EXISTING DOOR, FRAME & GLAZING
6	REMOVE FEC & SAVE FOR REUSE
7	CREATE OPENING FOR NEW WINDOW
8	REMOVE CANOPY & SUPPORTS OVER FRONT ENTRANCE
9	REMOVE EXISTING EQUIPMENT
10	REMOVE EXISTING CONCRETE STAIR, RETAINING WALL & RAILING
11	REMOVE DOWNSPOUT AND SCUPPER; INFILL OPENING FROM SCUPPER
12	CREATE OPENING IN WALL
13	REMOVE GLAZING, FRAME & SILL; REPAIR LINTEL IF POSSIBLE OR REMOVE IF DAMAGED
14	REMOVE EXISTING DOOR & ASSOCIATED FRAME
15	REMOVE EXISTING VAULT DOOR, SAVE FOR REUSE; COORDINATE WITH OWNER
16	REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE
17	REPAIR STONE COPING; REMOVE AND REPLACE SECTIONS DAMAGED BEYOND REPAIR
18	REMOVE ROOFING SYSTEM DOWN TO ROOF STRUCTURE
20	REMOVE ROOFING SYSTEM INCLUDING STRUCTURE
21	REMOVE GUTTER & DOWNSPOUT
22	REMOVE SECTION OF MASONRY CHIMNEY; PREP TO RECEIVE COPING; RETAIN UNDAMAGED BRICK FOR REUSE
23	REMOVE SECTION OF EXISTING WALL; PREP TO RECEIVE NEW WALL & ROOF ABOVE; RETAIN UNDAMAGED BRICK FOR REUSE
24*	REMOVE SECTION OF DAMAGED BRICK AND REPAIR
25	REMOVE GLAZING, FRAME, SILL & LINTEL
26	INFILL EXISTING OPENING
27	WIDEN EXISTING OPENING

GENERAL DEMOLITION NOTES

- INTERIOR FINISHES TO BE REMOVED IN ALL EXISTING SPACES INCLUDING BUT NOT LIMITED TO CARPET, TILE, WALL COVERING, VCT, ETC. EXISTING SLAB TO BE PREPARED TO RECEIVE NEW FINISHES. WALLS WITH WALL COVERING OR TILE REMOVED SHOULD BE SKIM-COATED AND PREPARED TO RECEIVE NEW FINISHES.
- WHERE PARTIAL WALLS ARE BEING DEMOLISHED LEAVE CLEAN EDGE REMAINING TO FACILITATE NEW ADJACENT WALL SURFACE.
- ALL NEW OPENINGS IN THE INTERIOR AND EXTERIOR TO BE PATCHED TO MATCH THE EXISTING ADJACENT SURFACE IN MATERIAL, DIMENSION, COLOR AND CONDITION.
- REMOVE AND RETAIN ALL DESKS AND ATTACHED CASEWORK ON FIRST FLOOR FOR REUSE. COORDINATE WITH OWNER
- ALL REMAINING EXISTING MASONRY TO BE CLEANED AND REPAIRED.

LEGEND

	FULL REMOVAL OF SPACE (I.E. WALLS, FLOORS, SLABS, CEILINGS, STAIRS, DOORS, CASEWORK, ETC.) U.N.O.;
	SECTION OF WALL OR FINISH TO BE REMOVED OR REPAIRED
	EXISTING ELEMENT TO BE REMOVED

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DEMO EXTERIOR ELEVATIONS

D2.01

D

C

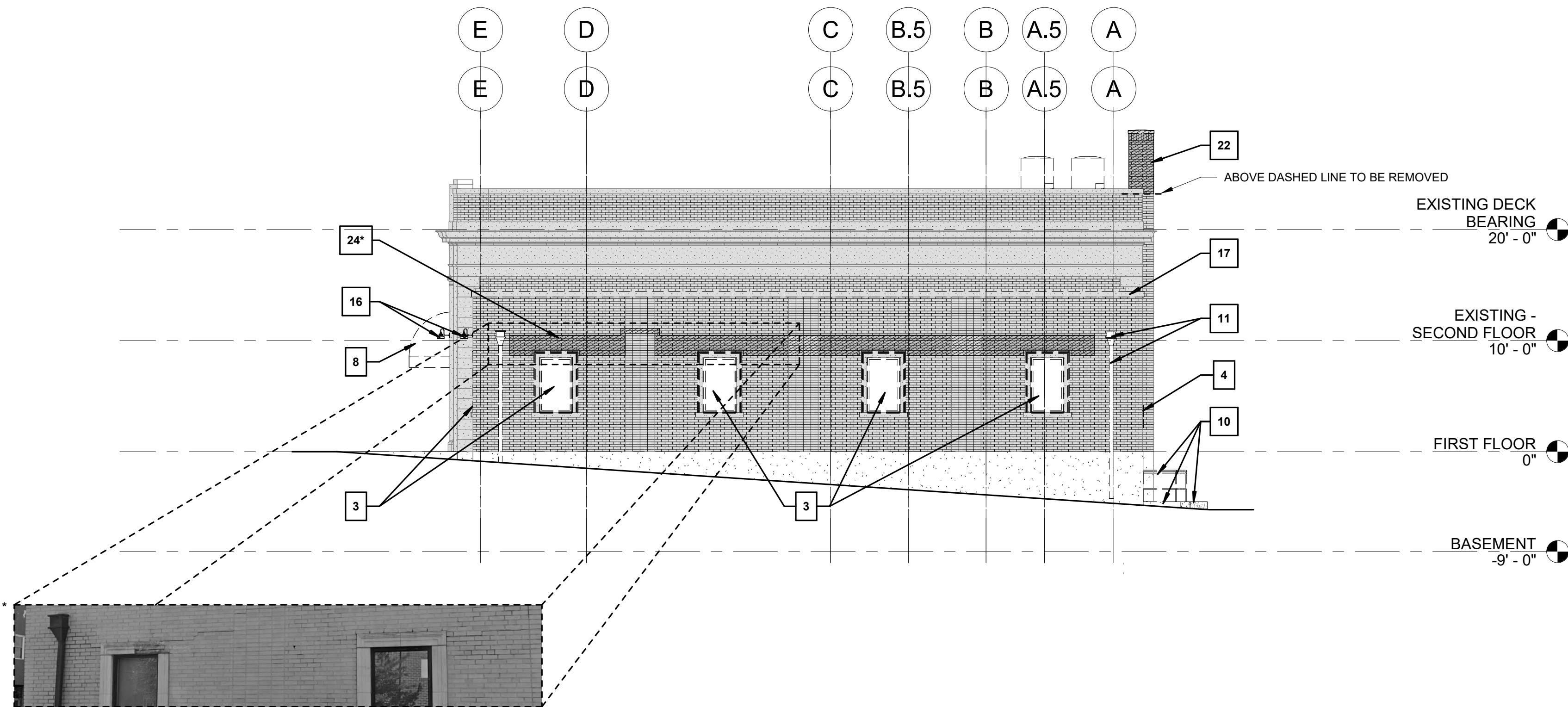
B

A

C1 DEMO EAST ELEVATION
1/8" = 1'-0"



A1 DEMO WEST ELEVATION
1/8" = 1'-0"



DEMOLITION LEGEND

#	DESCRIPTION
1	REMOVE EXISTING VAULT DOOR AND GATE; SAVE FOR REUSE; COORDINATE WITH OWNER
2	CREATE OPENING FOR NEW DOOR
3	REMOVE GLAZING, FRAME & SURROUND; RETAIN UNDAMAGED PORTIONS OF SURROUND FOR REUSE; REPAIR LINTEL IF POSSIBLE OR REMOVE IF DAMAGED
4	REMOVE SIGNAGE
5	REMOVE EXISTING DOOR, FRAME & GLAZING
6	REMOVE FEC & SAVE FOR REUSE
7	CREATE OPENING FOR NEW WINDOW
8	REMOVE CANOPY & SUPPORTS OVER FRONT ENTRANCE
9	REMOVE EXISTING EQUIPMENT
10	REMOVE EXISTING CONCRETE STAIR, RETAINING WALL & RAILING
11	REMOVE DOWNSPOUT AND SCUPPER; INFILL OPENING FROM SCUPPER
12	CREATE OPENING IN WALL
13	REMOVE GLAZING, FRAME & SILL; REPAIR LINTEL IF POSSIBLE OR REMOVE IF DAMAGED
14	REMOVE EXISTING DOOR & ASSOCIATED FRAME
15	REMOVE EXISTING VAULT DOOR; SAVE FOR REUSE; COORDINATE WITH OWNER
16	REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE
17	REPAIR STONE COPING; REMOVE AND REPLACE SECTIONS DAMAGED BEYOND REPAIR
18	REMOVE ROOFING SYSTEM DOWN TO ROOF STRUCTURE
20	REMOVE ROOFING SYSTEM INCLUDING STRUCTURE
21	REMOVE GUTTER & DOWNSPOUT
22	REMOVE SECTION OF MASONRY CHIMNEY; PREP TO RECEIVE COPING; RETAIN UNDAMAGED BRICK FOR REUSE
23	REMOVE SECTION OF EXISTING WALL; PREP TO RECEIVE NEW WALL & ROOF ABOVE; RETAIN UNDAMAGED BRICK FOR REUSE
24*	REMOVE SECTION OF DAMAGED BRICK AND REPAIR
25	REMOVE GLAZING, FRAME, SILL & LINTEL
26	INFILL EXISTING OPENING
27	WIDEN EXISTING OPENING

GENERAL DEMOLITION NOTES

- INTERIOR FINISHES TO BE REMOVED IN ALL EXISTING SPACES INCLUDING BUT NOT LIMITED TO CARPET, TILE, WALL COVERING, VCT, ETC. EXISTING SLAB TO BE PREPARED TO RECEIVE NEW FINISHES. WALLS WITH WALL COVERING OR TILE REMOVED SHOULD BE SKIM-COATED AND PREPARED TO RECEIVE NEW FINISHES.
- WHERE PARTIAL WALLS ARE BEING DEMOLISHED LEAVE CLEAN EDGE REMAINING TO FACILITATE NEW ADJACENT WALL SURFACE.
- ALL NEW OPENINGS IN THE INTERIOR AND EXTERIOR TO BE PATCHED TO MATCH THE EXISTING ADJACENT SURFACE IN MATERIAL, DIMENSION, COLOR AND CONDITION.
- REMOVE AND RETAIN ALL DESKS AND ATTACHED CASEWORK ON FIRST FLOOR FOR REUSE. COORDINATE WITH OWNER
- ALL REMAINING EXISTING MASONRY TO BE CLEANED AND REPAIRED.

LEGEND

	FULL REMOVAL OF SPACE (I.E. WALLS, FLOORS, SLABS, CEILINGS, STAIRS, DOORS, CASEWORK, ETC.) U.N.O.;
	SECTION OF WALL OR FINISH TO BE REMOVED OR REPAIRED
	EXISTING ELEMENT TO BE REMOVED

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JULY 7, 2025



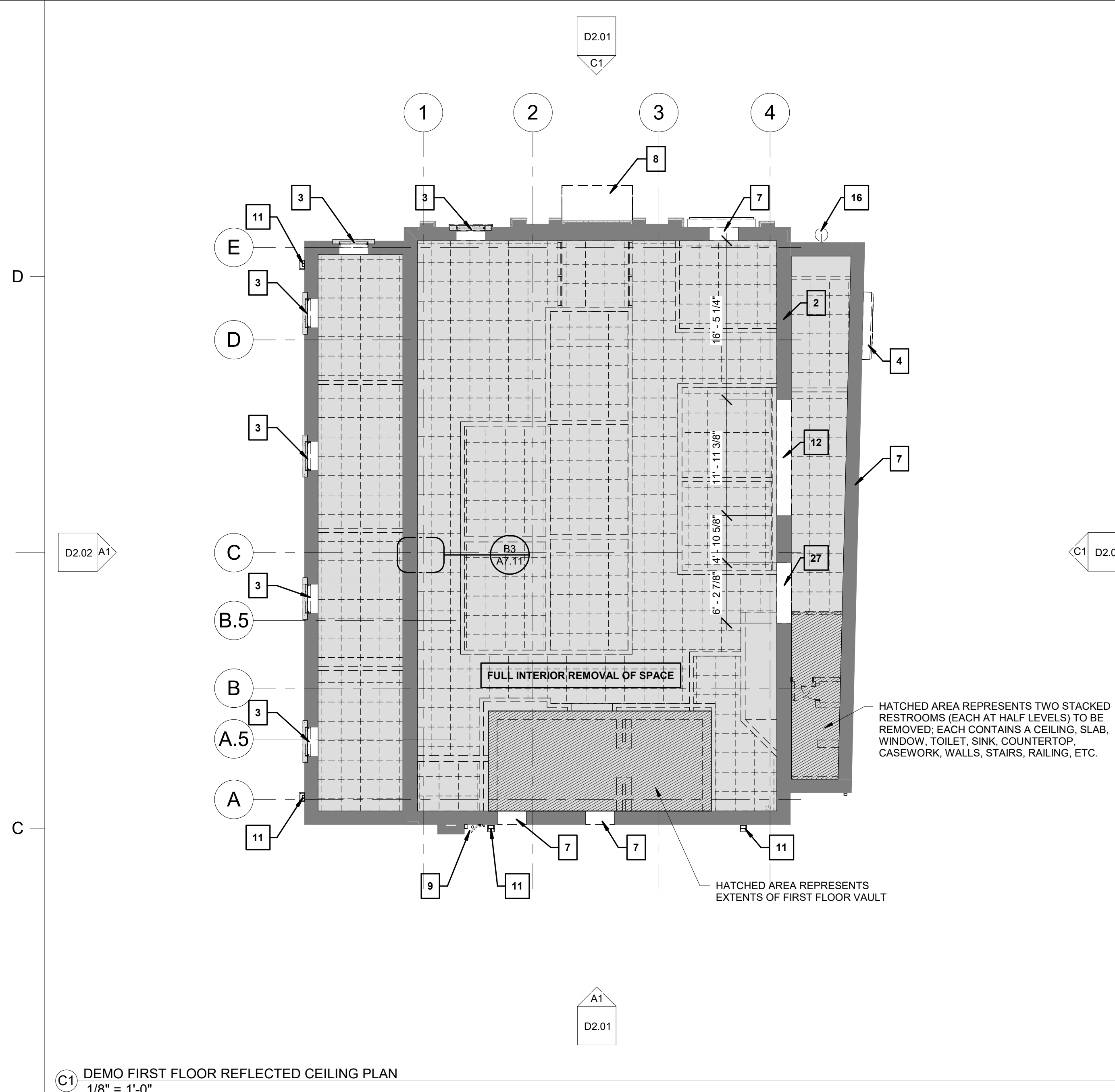
CANTON POLICE STATION RENO

No.	Description	Date

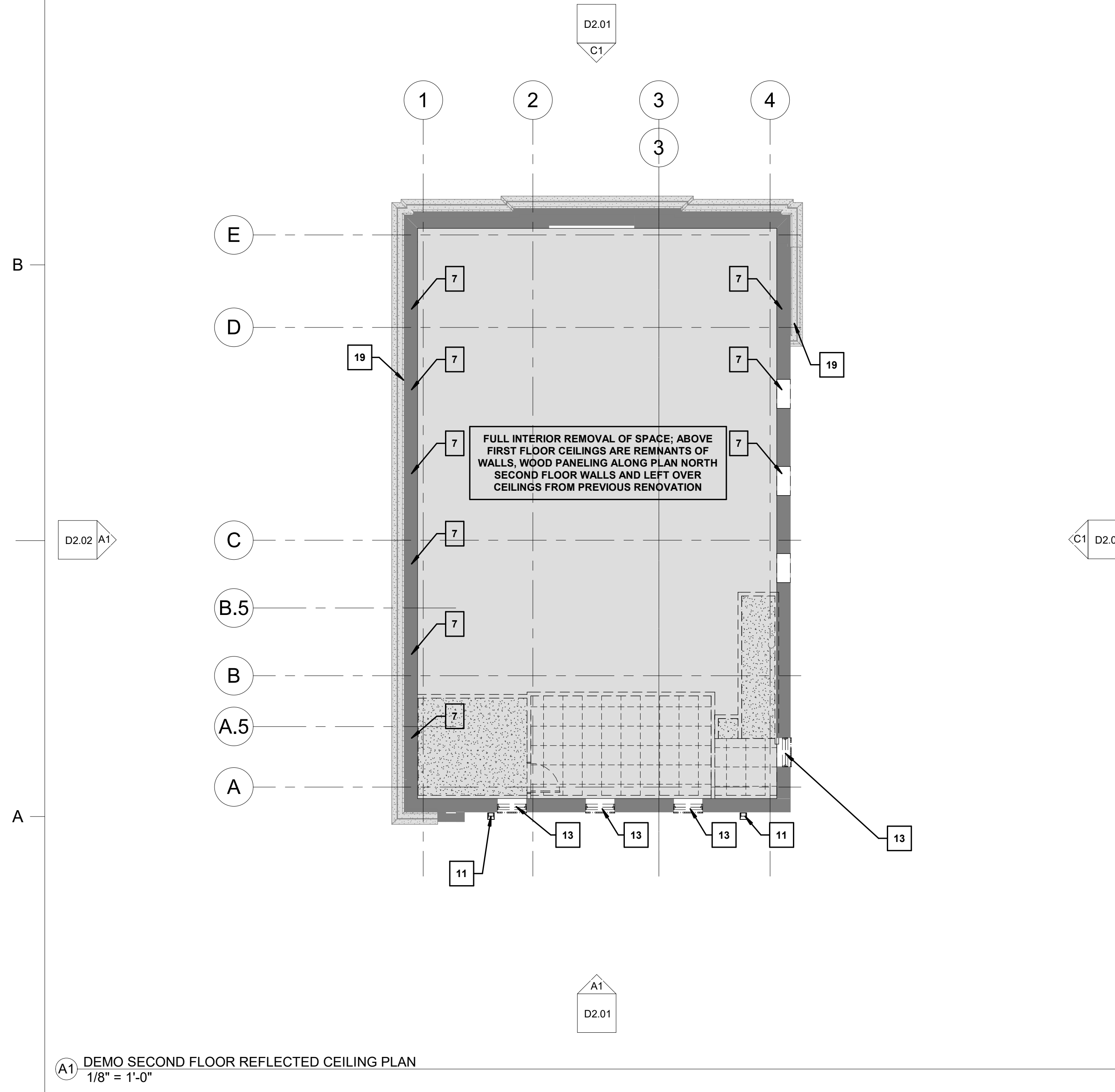
Package: CONSTRUCTION DOCUMENTS
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DEMO EXTERIOR ELEVATIONS

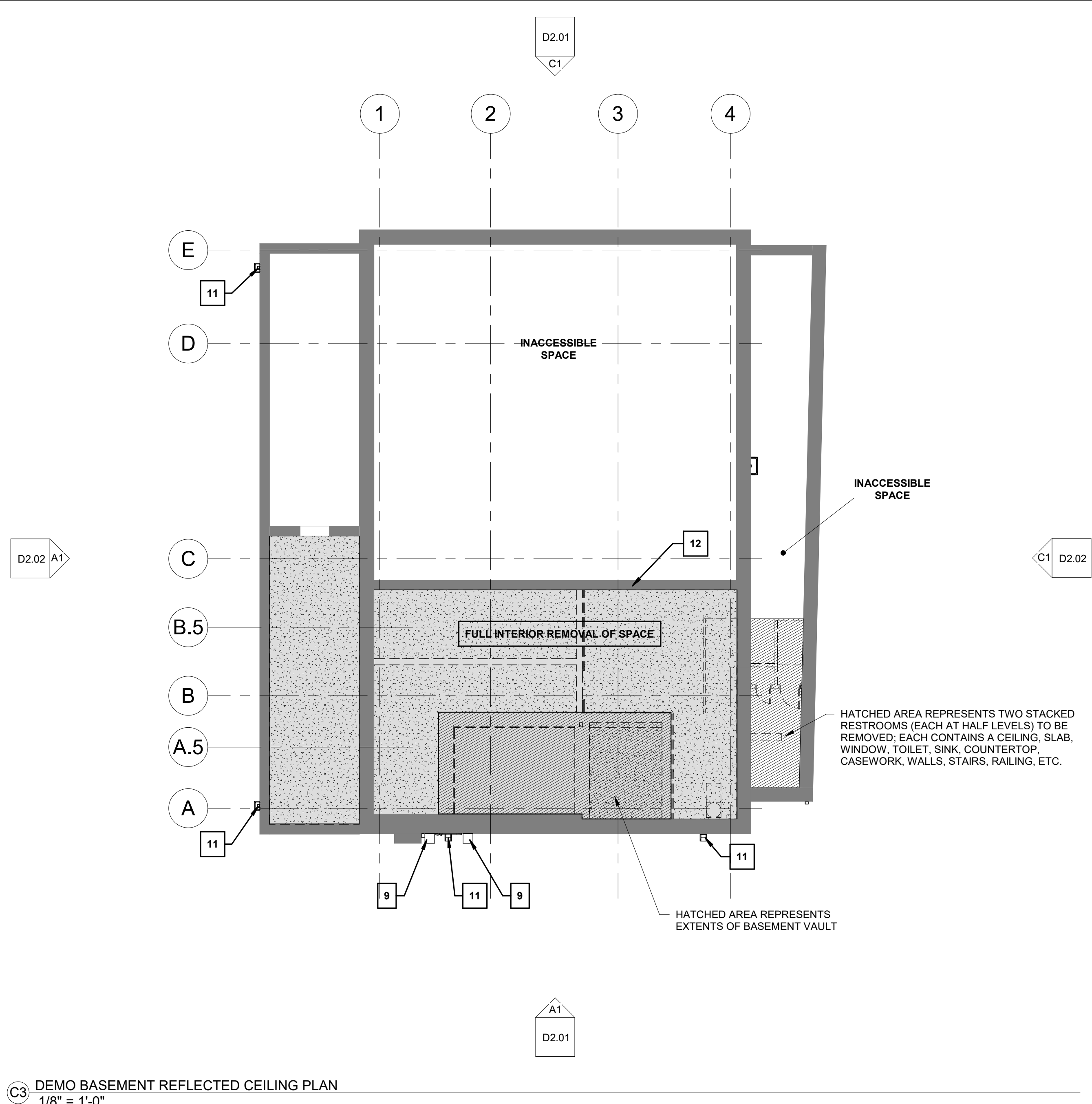
D2.02



C1 DEMO FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



A1 DEMO SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



C3 DEMO BASEMENT REFLECTED CEILING PLAN
1/8" = 1'-0"

DEMOLITION LEGEND	
#	DESCRIPTION
1	REMOVE EXISTING VAULT DOOR AND GATE; SAVE FOR REUSE; COORDINATE WITH OWNER
2	CREATE OPENING FOR NEW DOOR
3	REMOVE GLAZING, FRAME & SURROUND; RETAIN UNDAMAGED PORTIONS OF SURROUND FOR REUSE; REPAIR LINTEL IF POSSIBLE OR REMOVE IF DAMAGED
4	REMOVE SIGNAGE
5	REMOVE EXISTING DOOR, FRAME & GLAZING
6	REMOVE FEC & SAVE FOR REUSE
7	CREATE OPENING FOR NEW WINDOW
8	REMOVE CANOPY & SUPPORTS OVER FRONT ENTRANCE
9	REMOVE EXISTING EQUIPMENT
10	REMOVE EXISTING CONCRETE STAIR, RETAINING WALL & RAILING
11	REMOVE DOWNSPOUT AND SCUPPER; INFILL OPENING FROM SCUPPER
12	CREATE OPENING IN WALL
13	REMOVE GLAZING, FRAME & SILL; REPAIR LINTEL IF POSSIBLE OR REMOVE IF DAMAGED
14	REMOVE EXISTING DOOR & ASSOCIATED FRAME
15	REMOVE EXISTING VAULT DOOR; SAVE FOR REUSE; COORDINATE WITH OWNER
16	REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE
17	REPAIR STONE COPING; REMOVE AND REPLACE SECTIONS DAMAGED BEYOND REPAIR
18	REMOVE ROOFING SYSTEM DOWN TO ROOF STRUCTURE
20	REMOVE ROOFING SYSTEM INCLUDING STRUCTURE
21	REMOVE GUTTER & DOWNSPOUT
22	REMOVE SECTION OF MASONRY CHIMNEY; PREP TO RECEIVE COPING; RETAIN UNDAMAGED BRICK FOR REUSE
23	REMOVE SECTION OF EXISTING WALL; PREP TO RECEIVE NEW WALL & ROOF ABOVE; RETAIN UNDAMAGED BRICK FOR REUSE
24*	REMOVE SECTION OF DAMAGED BRICK AND REPAIR
25	REMOVE GLAZING, FRAME, SILL & LINTEL
26	INFILL EXISTING OPENING
27	WIDEN EXISTING OPENING

GENERAL DEMOLITION NOTES	
1.	INTERIOR FINISHES TO BE REMOVED IN ALL EXISTING SPACES INCLUDING BUT NOT LIMITED TO CARPET, TILE, WALL COVERING, VCT, ETC. EXISTING SLAB TO BE PREPARED TO RECEIVE NEW FINISHES. WALLS WITH WALL COVERING OR TILE REMOVED SHOULD BE SKIM-COATED AND PREPARED TO RECEIVE NEW FINISHES.
2.	WHERE PARTIAL WALLS ARE BEING DEMOLISHED LEAVE CLEAN EDGE REMAINING TO FACILITATE NEW ADJACENT WALL SURFACE.
3.	ALL NEW OPENINGS IN THE INTERIOR AND EXTERIOR TO BE PATCHED TO MATCH THE EXISTING ADJACENT SURFACE IN MATERIAL, DIMENSION, COLOR AND CONDITION.
4.	REMOVE AND RETAIN ALL DESKS AND ATTACHED CASEWORK ON FIRST FLOOR FOR REUSE. COORDINATE WITH OWNER
5.	ALL REMAINING EXISTING MASONRY TO BE CLEANED AND REPAIRED.

EXISTING REFLECTED CEILING PLAN LEGEND	
	EXISTING 2 x 2 ACOUSTICAL PANEL CEILING
	EXISTING HARD CEILING
+ XX'-XX"	CEILING HEIGHT ABOVE FINISHED FLOOR
NOTES	
1.	REFER TO DETAILS & SPECIFICATIONS FOR CEILING SUSPENSION/ANCHOR INFORMATION.
2.	REFER TO SPECIFICATIONS FOR ACOUSTICAL PANEL CEILING GRID TYPE.
3.	REFER TO MEP DRAWINGS FOR SYMBOL IDENTIFICATION.
4.	REFER TO UL SYSTEMS SHEET FOR HORIZONTAL RATED ASSEMBLIES.

LEGEND	
	TRUE NORTH
	PLAN NORTH
	FULL REMOVAL OF SPACE (I.E. WALLS, FLOORS, SLABS, CEILINGS, STAIRS, DOORS, CASEWORK, ETC.) U.N.O.
	EXISTING WALL TO REMAIN
	EXISTING WALL TO BE REMOVED

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JULY 7, 2025

CANTON POLICE STATION RENO

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Package: CONSTRUCTION DOCUMENTS

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DEMO REFLECTED CEILING PLANS

D4.01



JULY 7, 2025



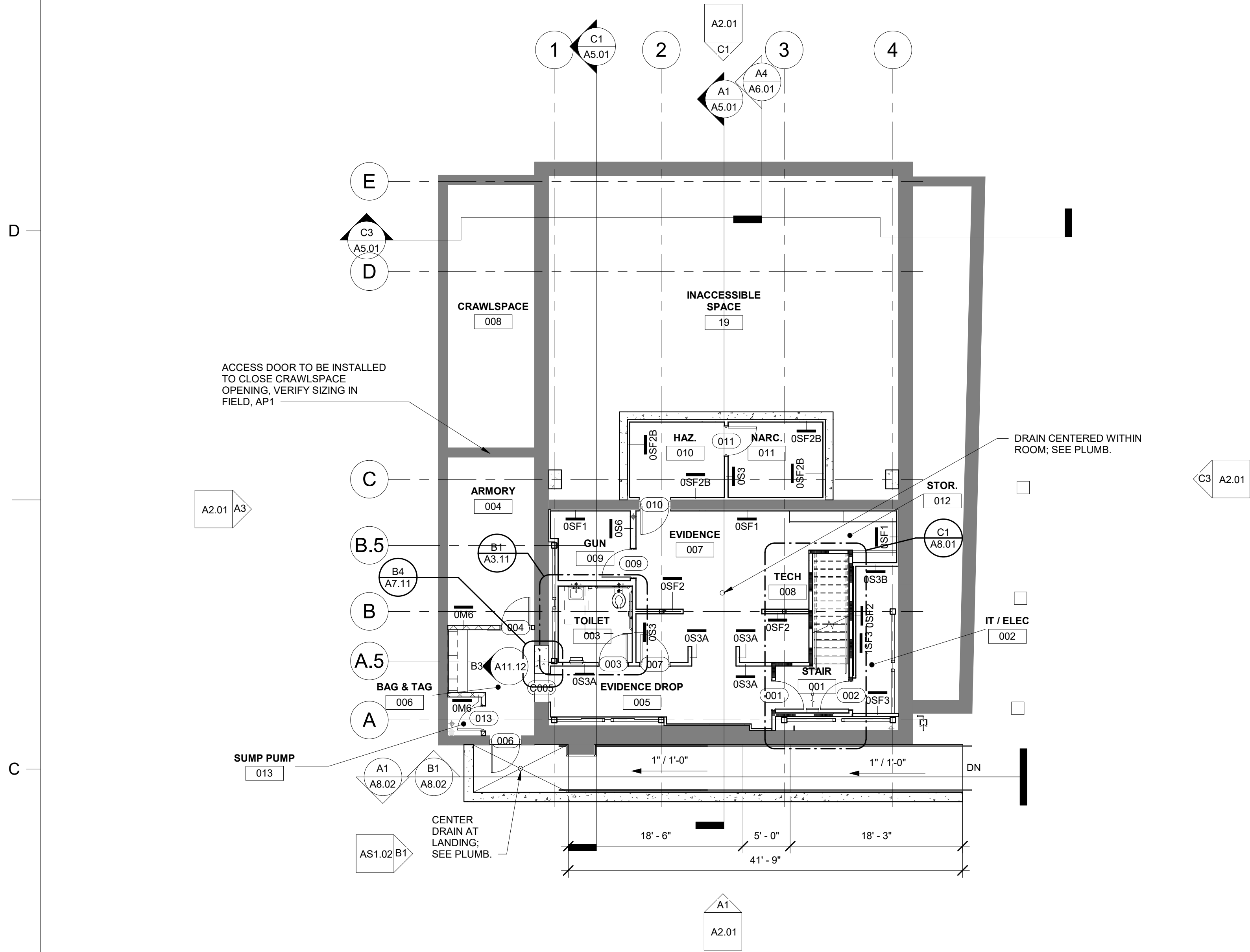
CANTON POLICE STATION RENO

No.	Description	Date

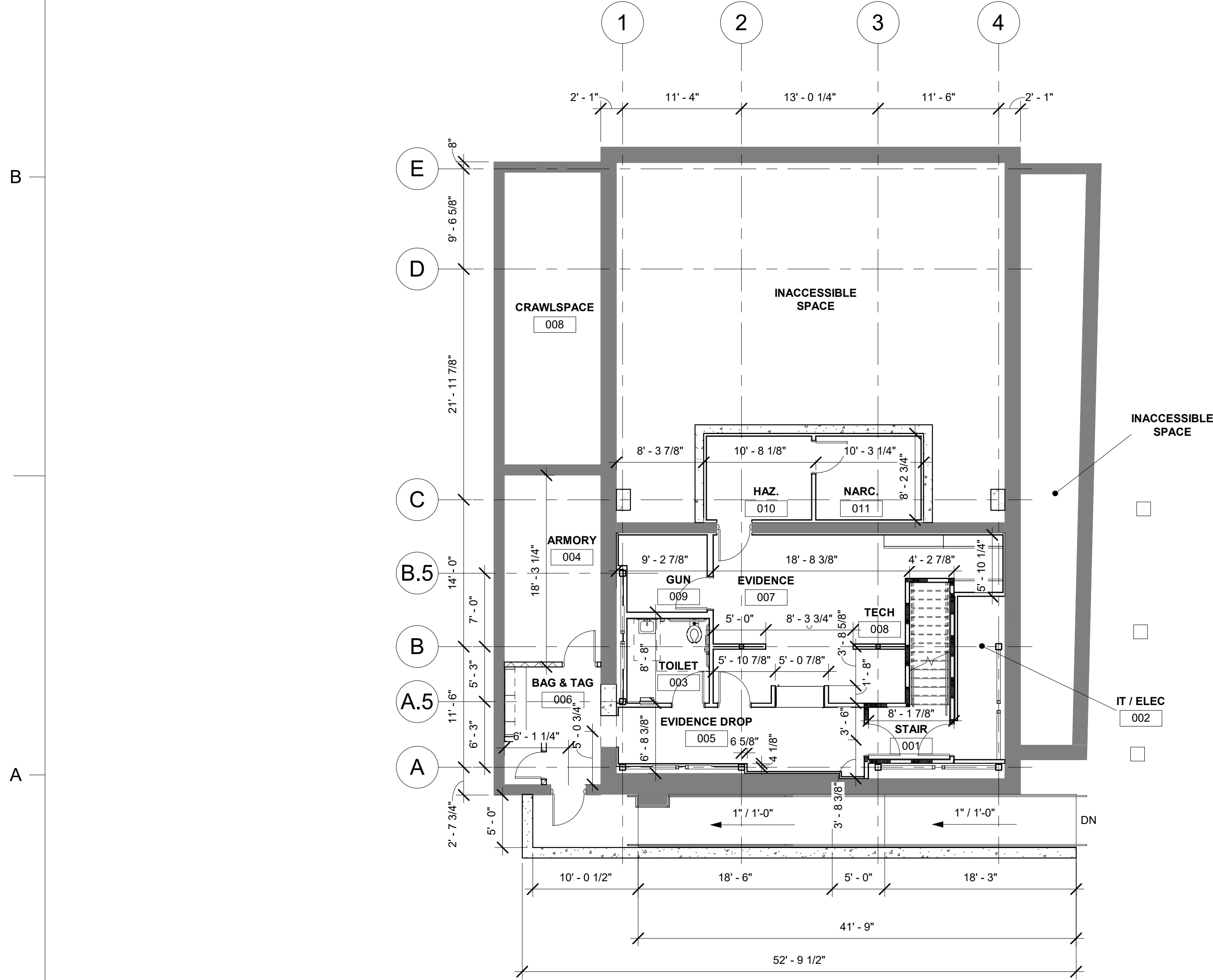
Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
Date: JULY 7, 2025

BASEMENT PLANS

A1.11



C1 BASEMENT PLAN
1/8" = 1'-0"



A1 BASEMENT DIMENSIONED PLAN
1/8" = 1'-0"

LEGEND

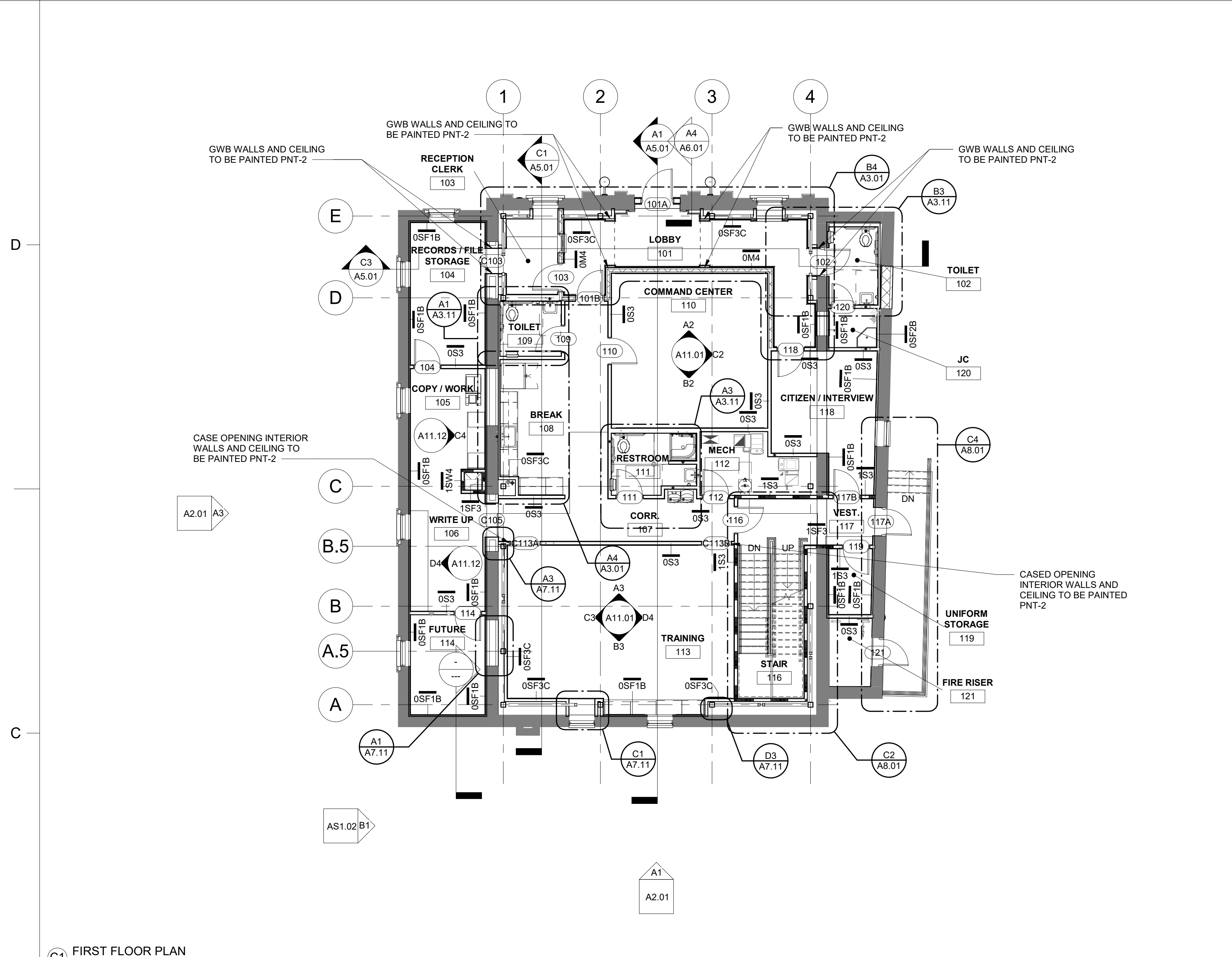
TRUE NORTH

PLAN NORTH

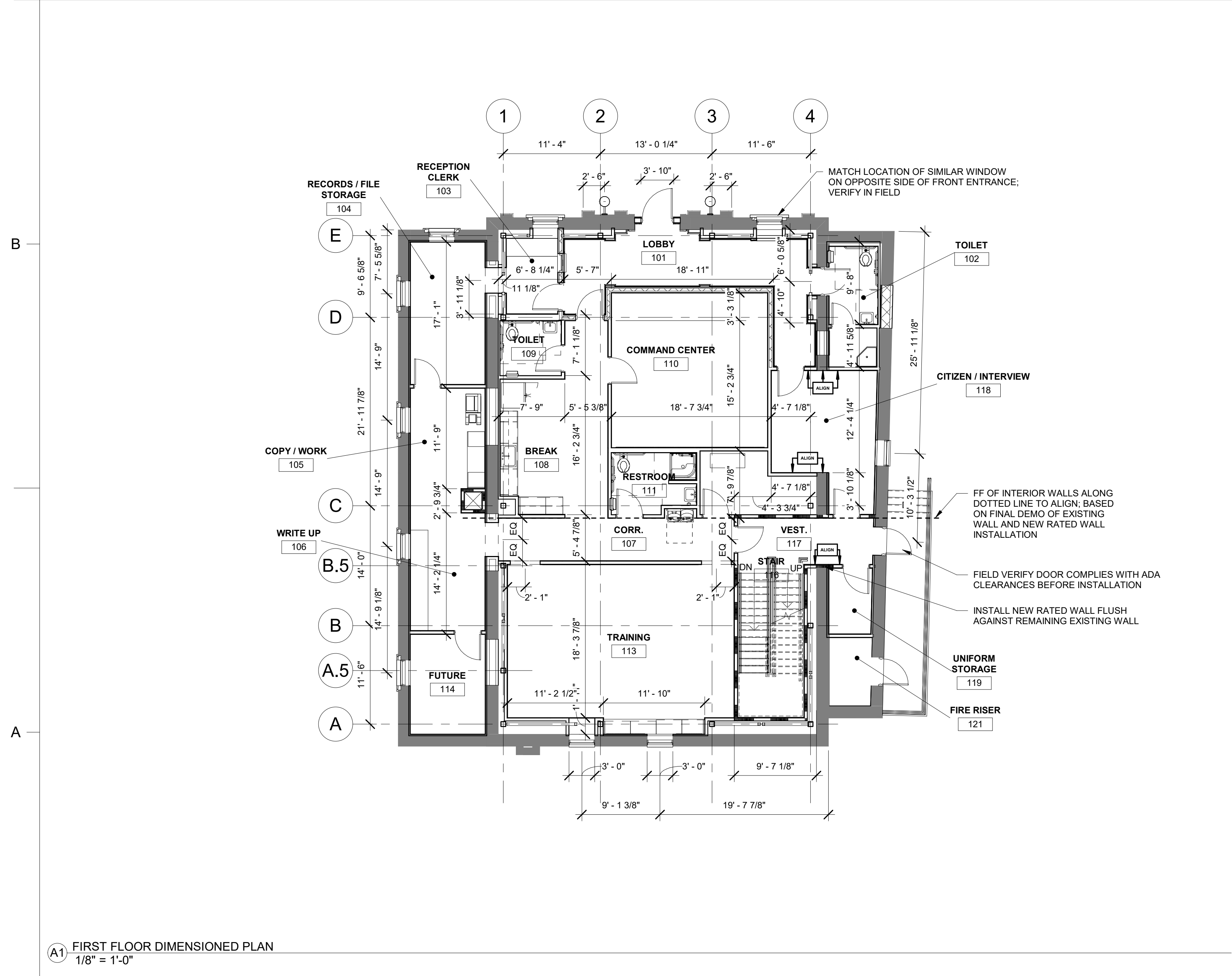
EXISTING WALL TO REMAIN

NEW WALL

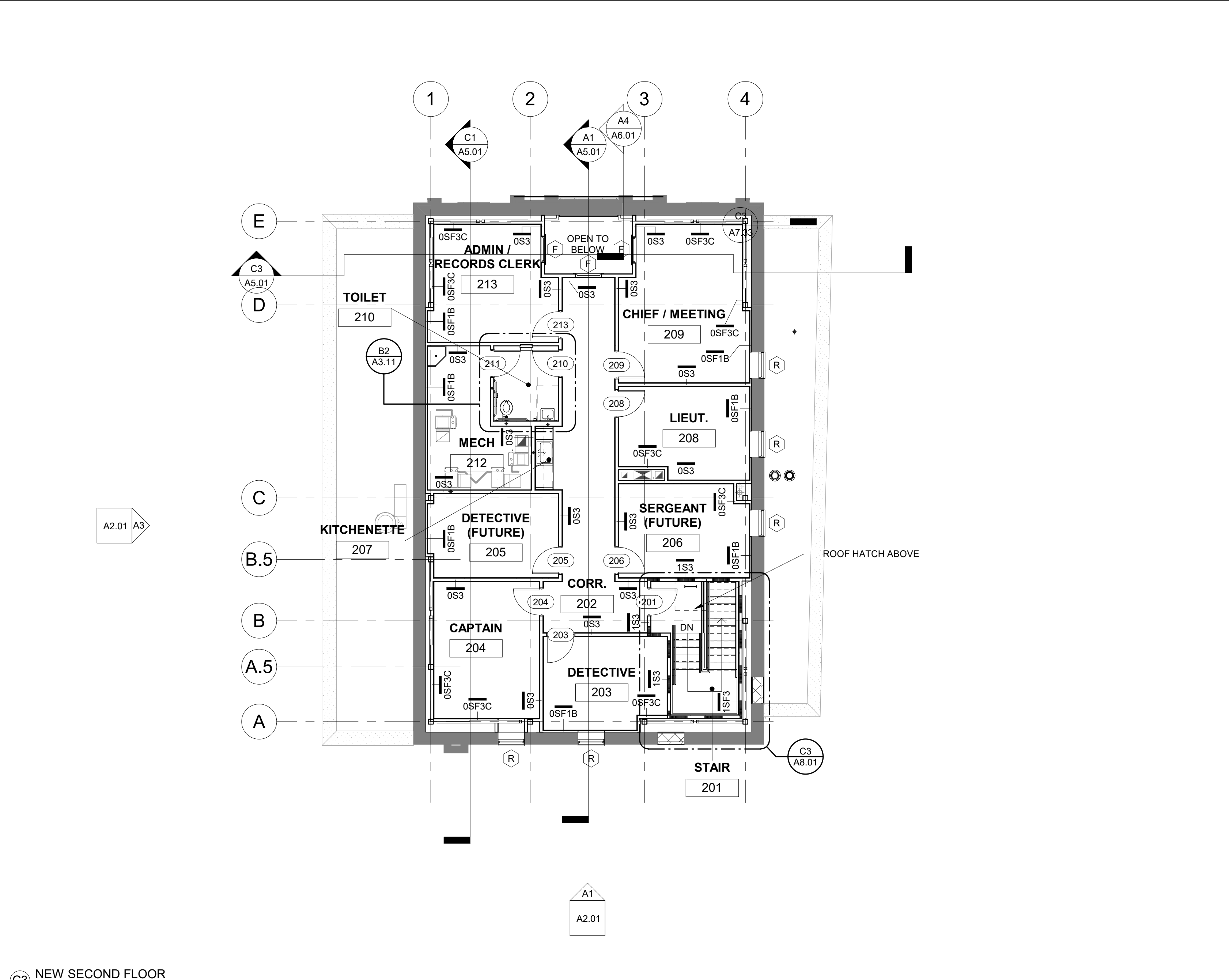
1 HOUR FIRE RATED PARTITION



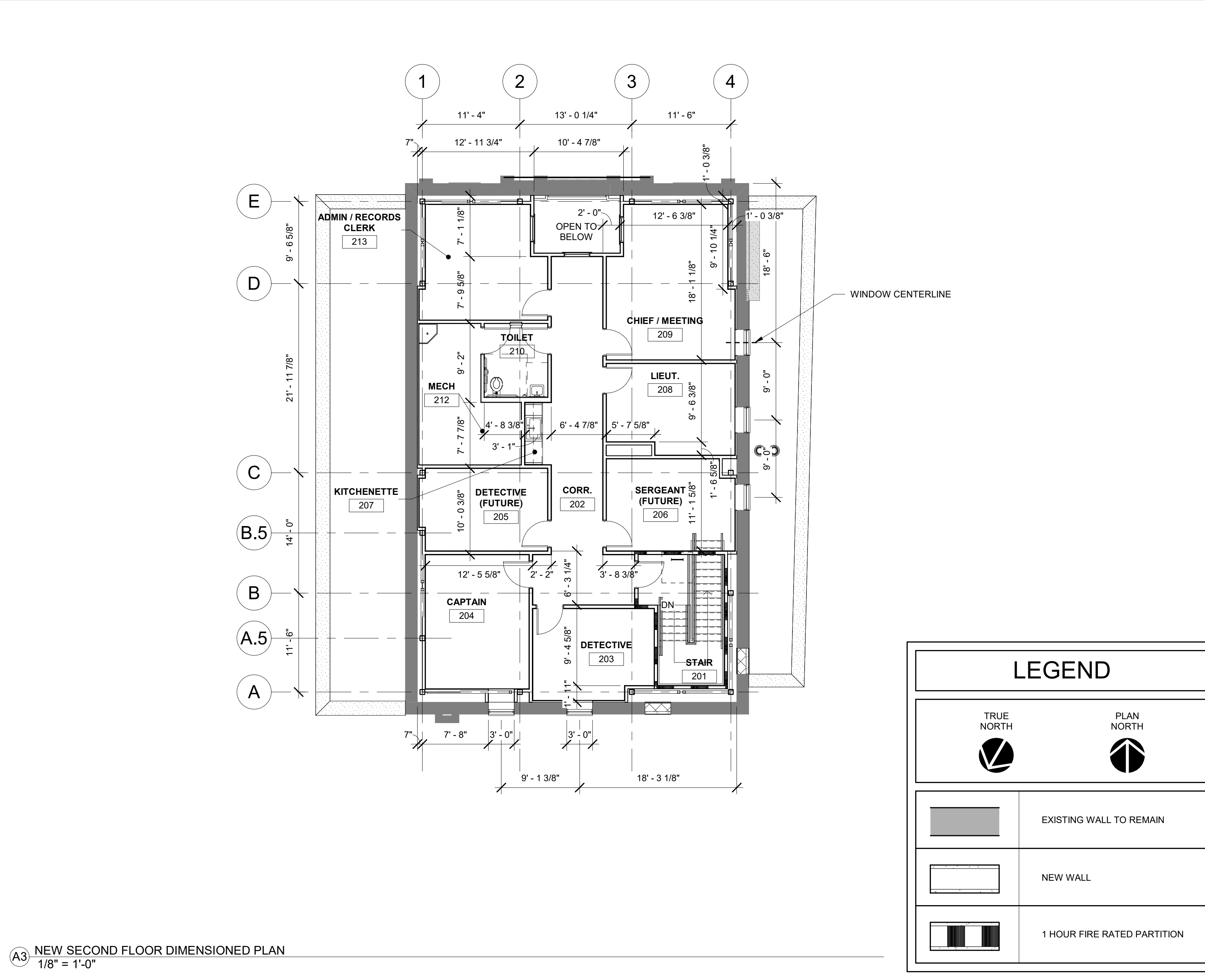
C1 FIRST FLOOR PLAN
1/8" = 1'-0"



A1 FIRST FLOOR DIMENSIONED PLAN
1/8" = 1'-0"



C3 NEW SECOND FLOOR
1/8" = 1'-0"



A3 NEW SECOND FLOOR DIMENSIONED PLAN
1/8" = 1'-0"

LEGEND

TRUE NORTH

PLAN NORTH

EXISTING WALL TO REMAIN

NEW WALL

1 HOUR FIRE RATED PARTITION

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NORTH CAROLINA
REGISTERED
MICHEL SALVATORE
ARCHITECT
13014

JULY 7, 2025

CREECH & ASSOCIATES, P.L.L.C.
REGISTERED ARCHITECTURAL COMPANY
NORTH CAROLINA
CERT. NO. 52304
CHARLOTTE, N.C.

CANTON POLICE STATION RENO

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FLOOR PLANS

A1.12

D

C

B

A

ROOF PLAN LEGEND	
+X' - X"	HEIGHT OF ROOF DECK
→	DIRECTION OF SLOPE
RD	ROOF DRAIN
OD	OVERFLOW DRAIN

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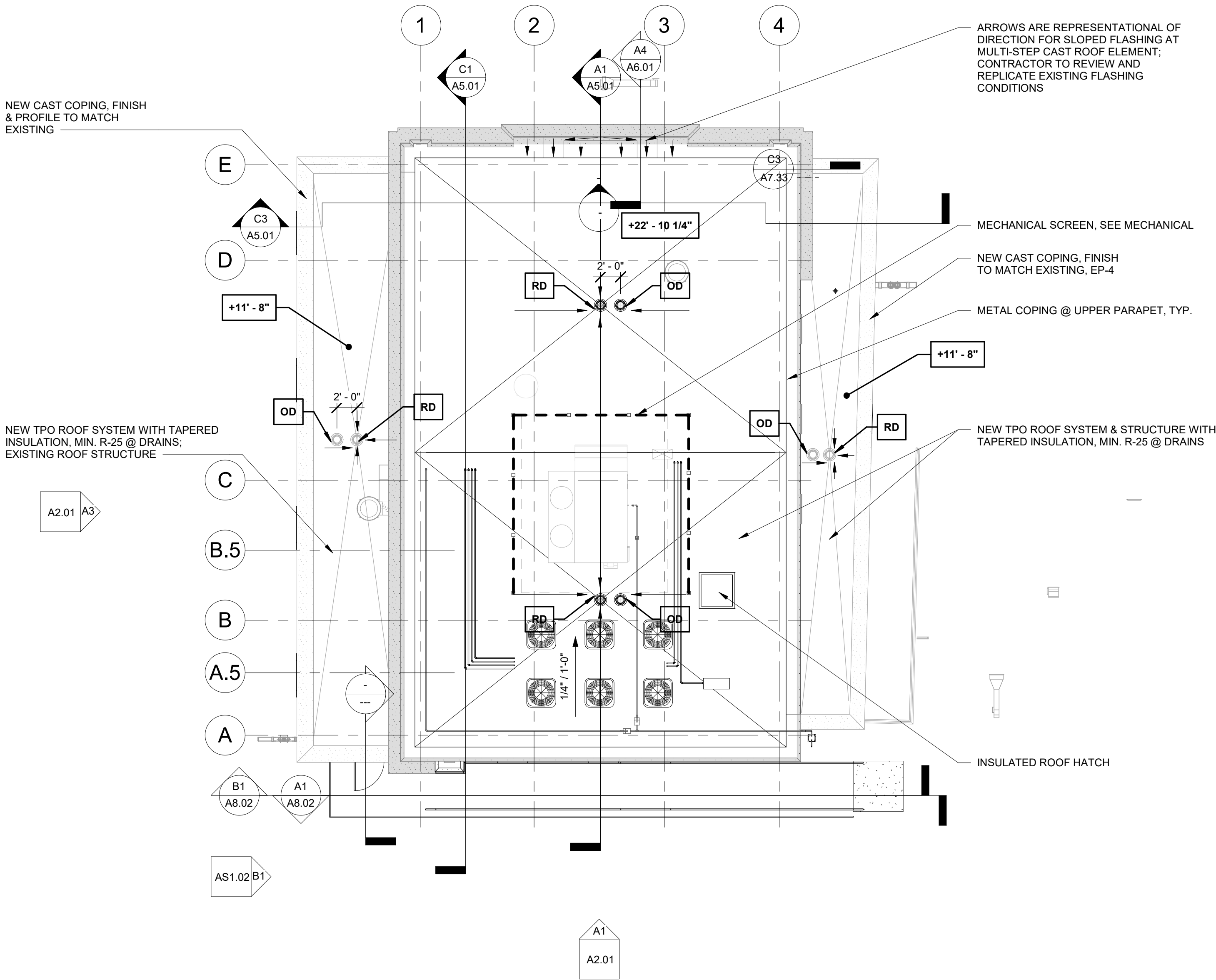
CANTON POLICE STATION RENO

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Date: JULY 7, 2025

ROOF PLAN

A1.21



LEGEND	
TRUE NORTH	PLAN NORTH
EXISTING WALL TO REMAIN	NEW WALL
1 HOUR FIRE RATED PARTITION	



JULY 7, 2025



CANTON POLICE STATION RENO

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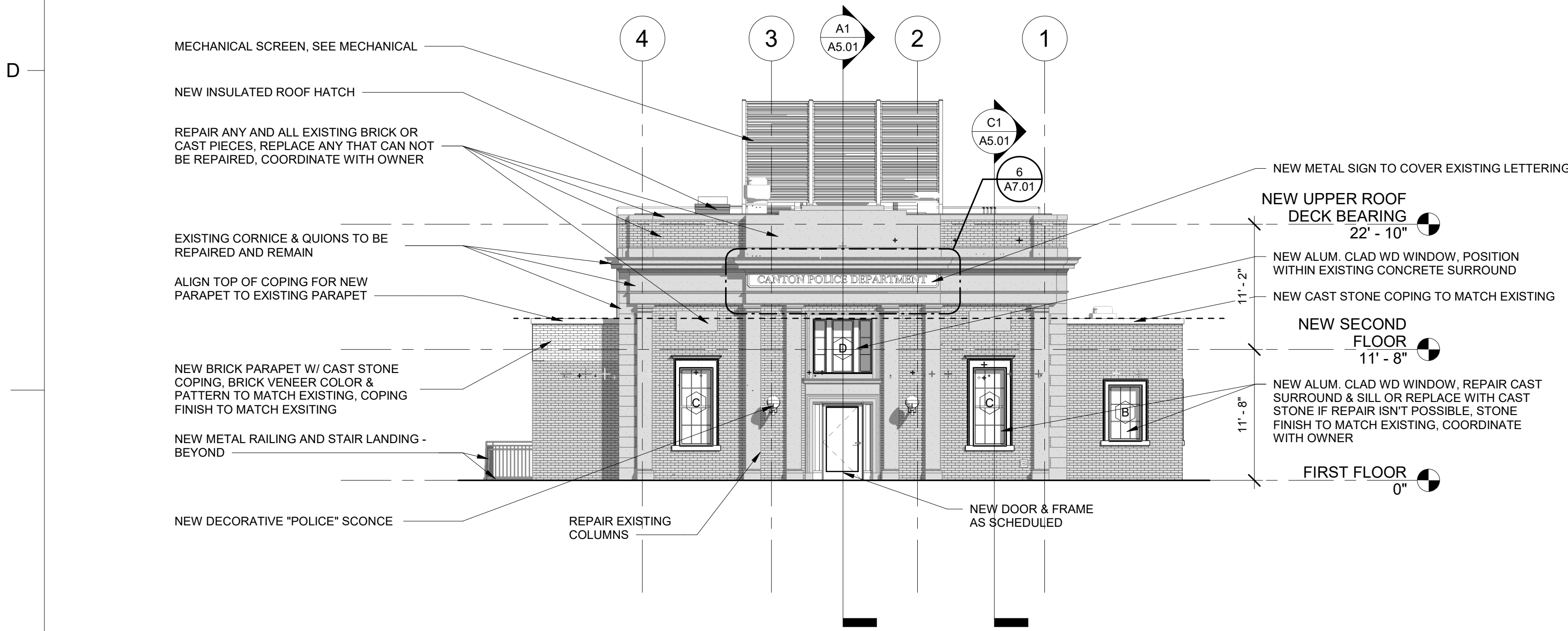
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Project Number: 2023-001-01

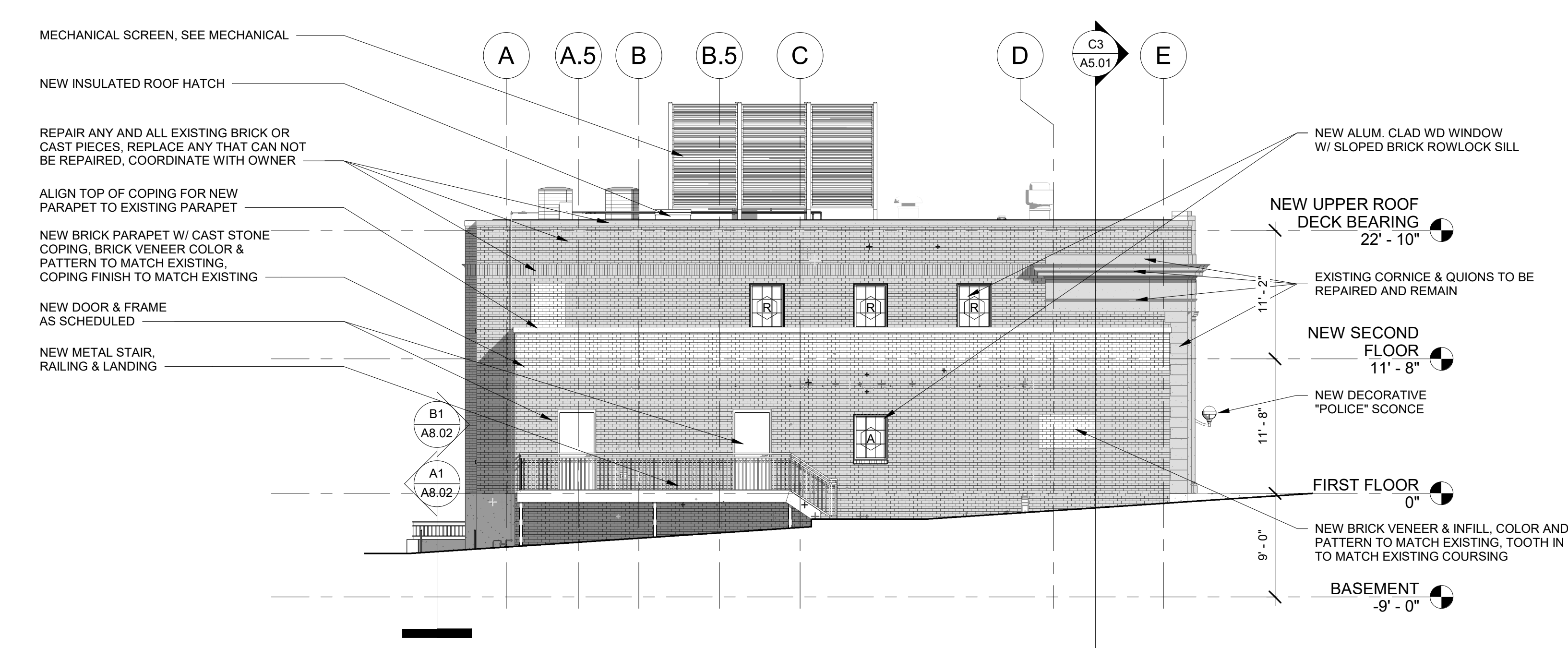
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EXTERIOR ELEVATIONS

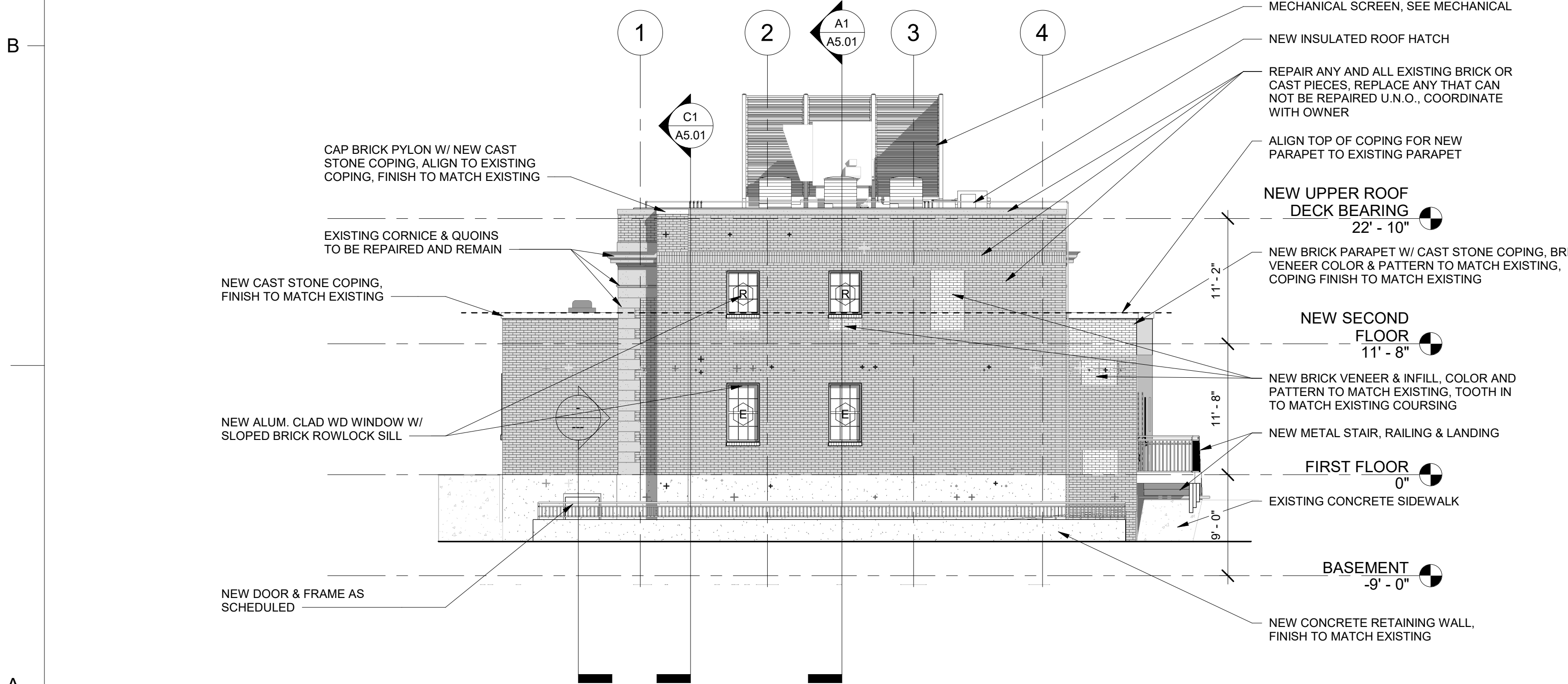
A2.01



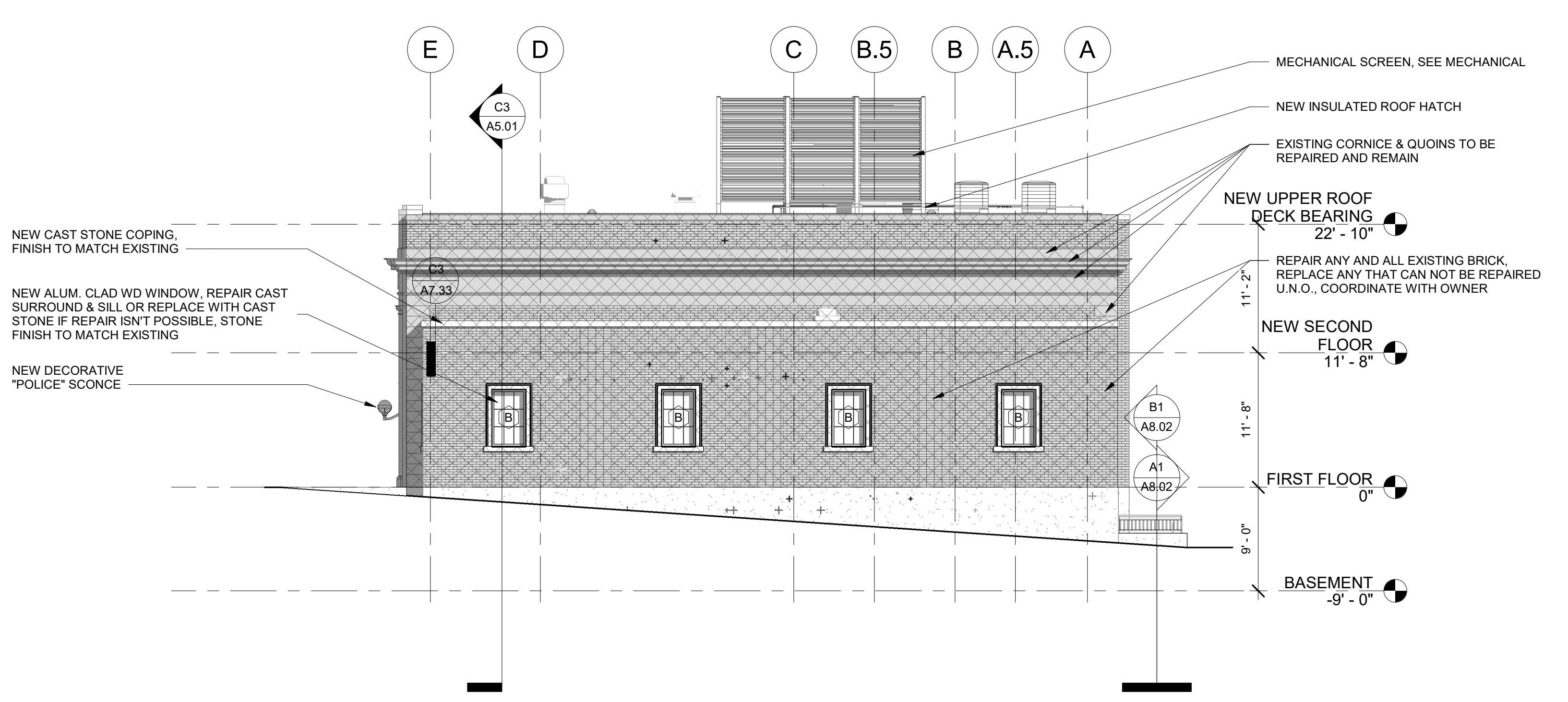
C1 NORTH ELEVATION
1/8" = 1'-0"



C3 EAST ELEVATION
1/8" = 1'-0"



A1 SOUTH ELEVATION
1/8" = 1'-0"



A3 WEST ELEVATION
1/8" = 1'-0"

D

C

B

A

1

2

3

4

5

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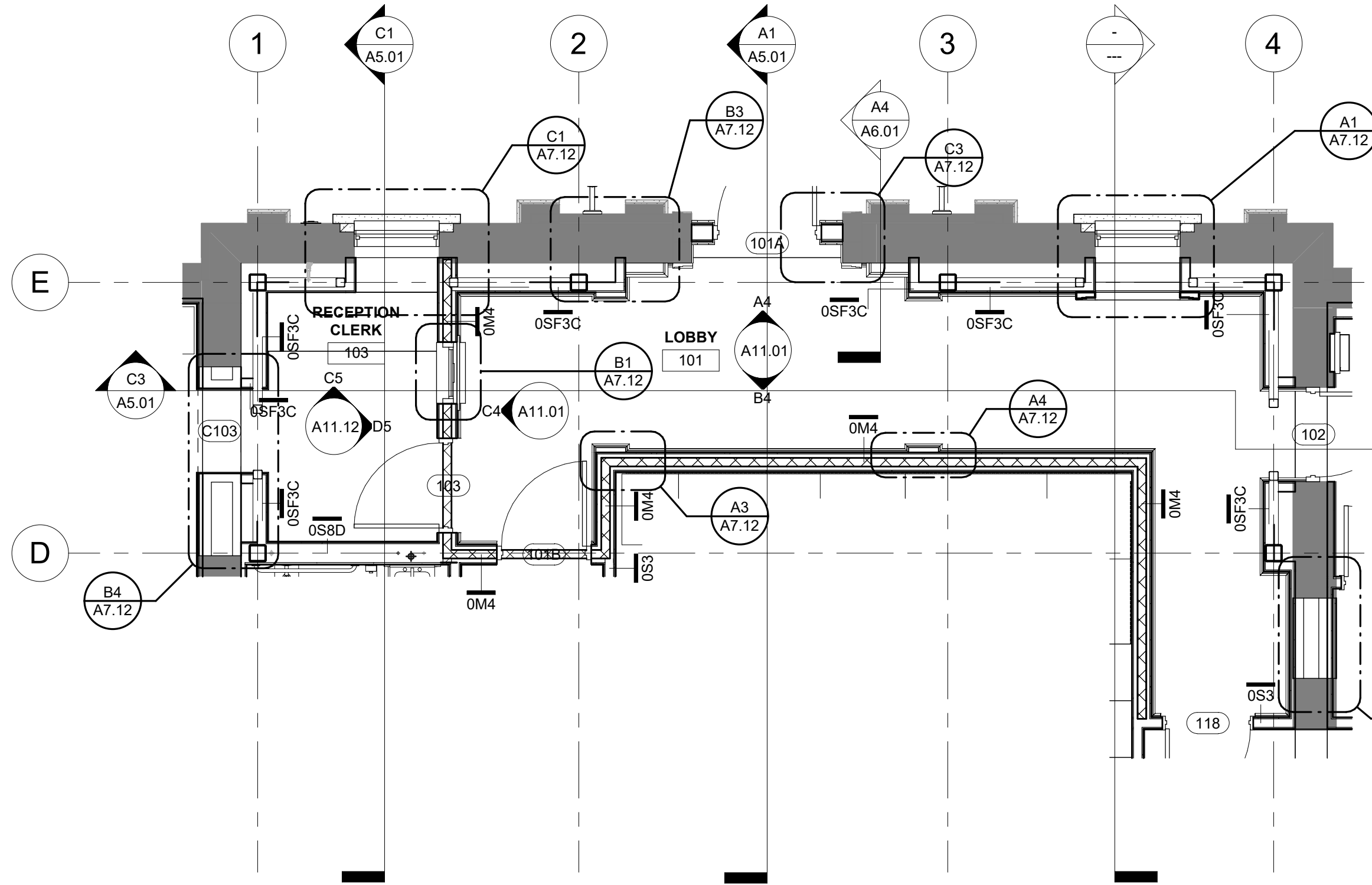
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CANTON POLICE STATION RENO



CANTON POLICE STATION RENO

Package: CONSTRUCTION
DOCUMENTS

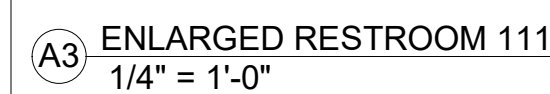
Date: JULY 7, 2025

ENLARGED RESTROOM ACCESSORIES

A3.11

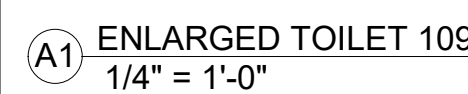
Diagram illustrating the required clearances and maneuvering spaces for a bathroom stall, showing a toilet, lavatory, and water closet. The diagram includes dimensions for the stall and the required clearances:

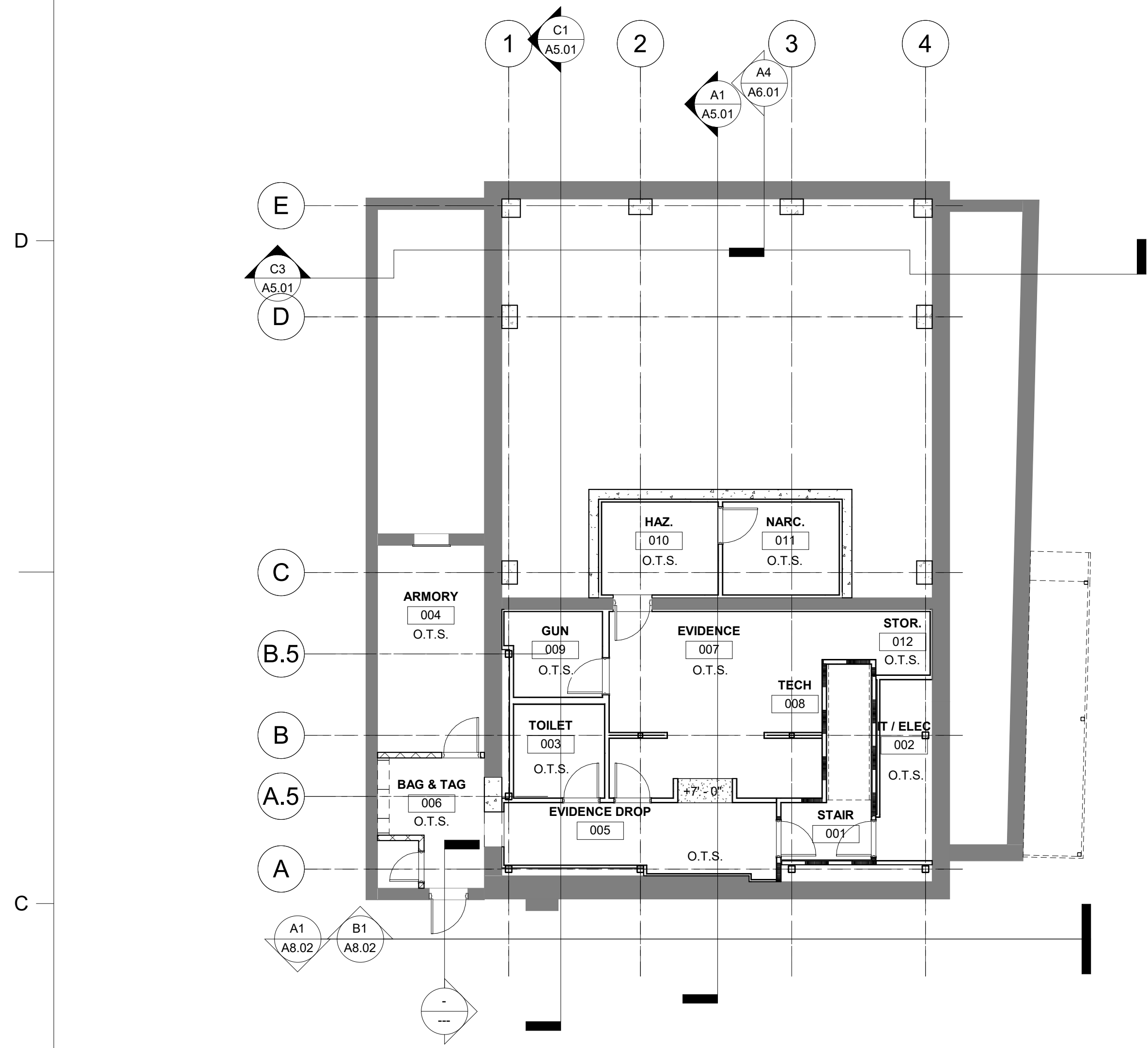
- Overall stall width: 7' - 1"
- Overall stall depth: 6' - 6" MIN. CLR.
- Clearance for lavatory: 30" x 52" CLEARANCE FOR LAVATORY
- Clearance for toilet: 30" x 48" MANEUVERING SPACE PAST DOOR SWING
- Clearance for water closet: 60" x 56" CLEARANCE FOR WATER CLOSET
- 60" TURNING CIRCLE
- 54" x 60" MANEUVERING CLEARANCE AT DOOR
- 2' - 8" MIN. CLR.
- 1' - 4" MIN.



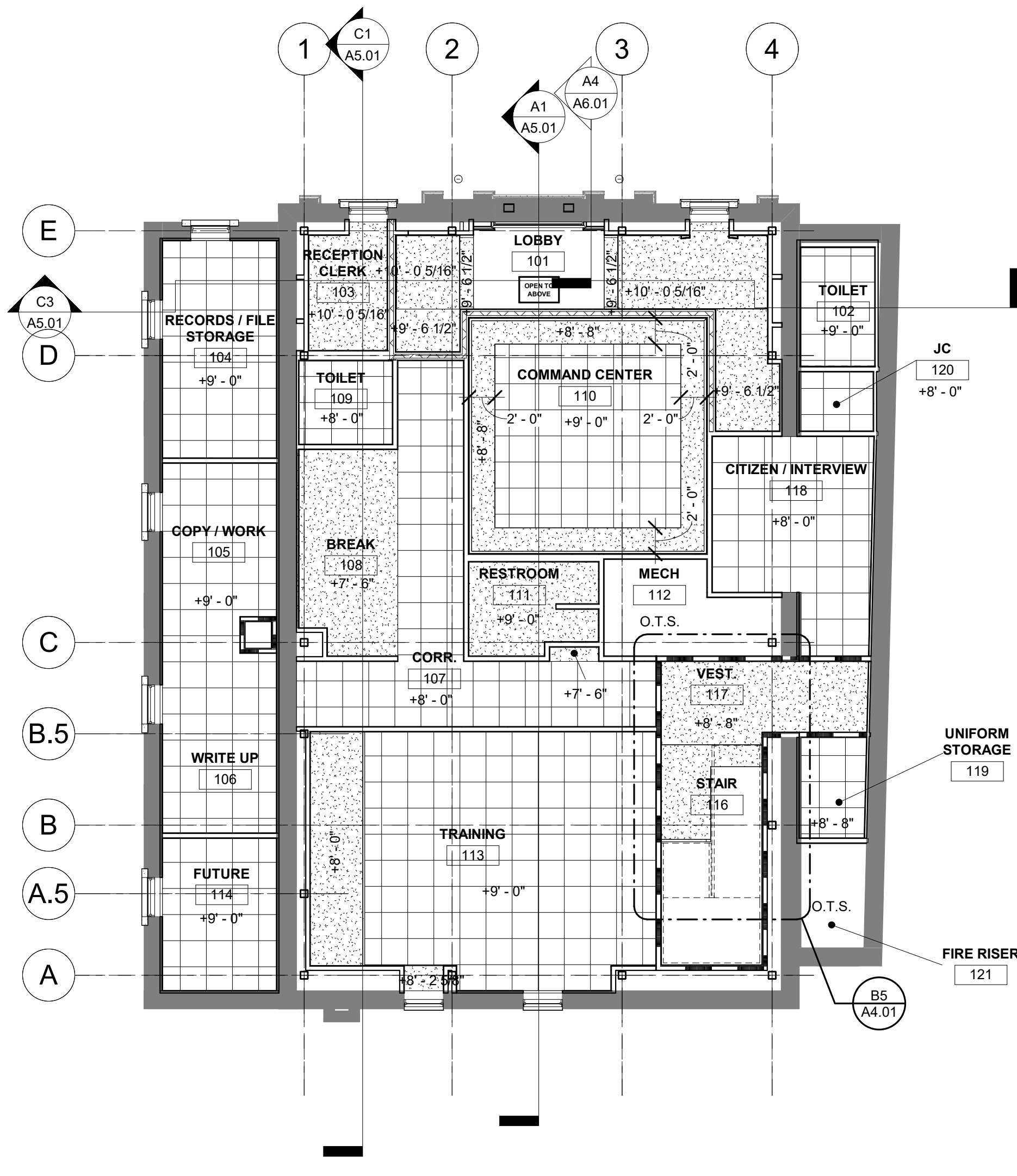
TOILET ACCESSORY SCHEDULE				
TA #	DESCRIPTION	MANUFACTURER	MODEL #	NOTES
1	PAPER TOWEL DISPENSER / WASTE RECEPTACLE	BOBRICK	B-3942	SEMI-RECESSED
2	SOAP DISPENSER - WALL	BOBRICK	B-2111	SURFACE-MOUNTED
3	MIRROR	BOBRICK	B-290 2436	24" WIDTH x 36" HEIGHT, 3/4" FRAME, S.S. FINISH
4	TOILET TISSUE DISPENSER	BOBRICK	B-2888	SURFACE-MOUNTED
5	SANITARY NAPKIN DISPOSAL	BOBRICK	B-254	SURFACE-MOUNTED
6	SEAT COVER DISPENSER	BOBRICK	B-221	SURFACE-MOUNTED
7	36" HORIZONTAL GRAB BAR	BOBRICK	B-6806x36	1-1/2" DIAMETER
8	42" HORIZONTAL GRAB BAR	BOBRICK	B-6806x42	1-1/2" DIAMETER
9	18" VERTICAL GRAB BAR	BOBRICK	B-6806x18	1-1/2" DIAMETER
10	BABY CHANGING STATION	BOBRICK	KB300-SS	WALL-MOUNTED
11	BAG HOOK	BOBRICK	310-54-KIT	WALL-MOUNTED
12	DOOR STOP	SEE SPEC.	SEE SPEC.	FLOOR-MOUNTED

NOTES 1. REFER TO ICC A117.1-2009 AND ENLARGED TOILET AND ACCESSORIES SHEET FOR TYPICAL MOUNTING HEIGHTS. 2. ALL MANUFACTURERS BASIS FOR DESIGN. SEE SPECIFICATIONS FOR EQUALS. 3. O.F.O.I. - OWNER FURNISHED OWNER INSTALLED	
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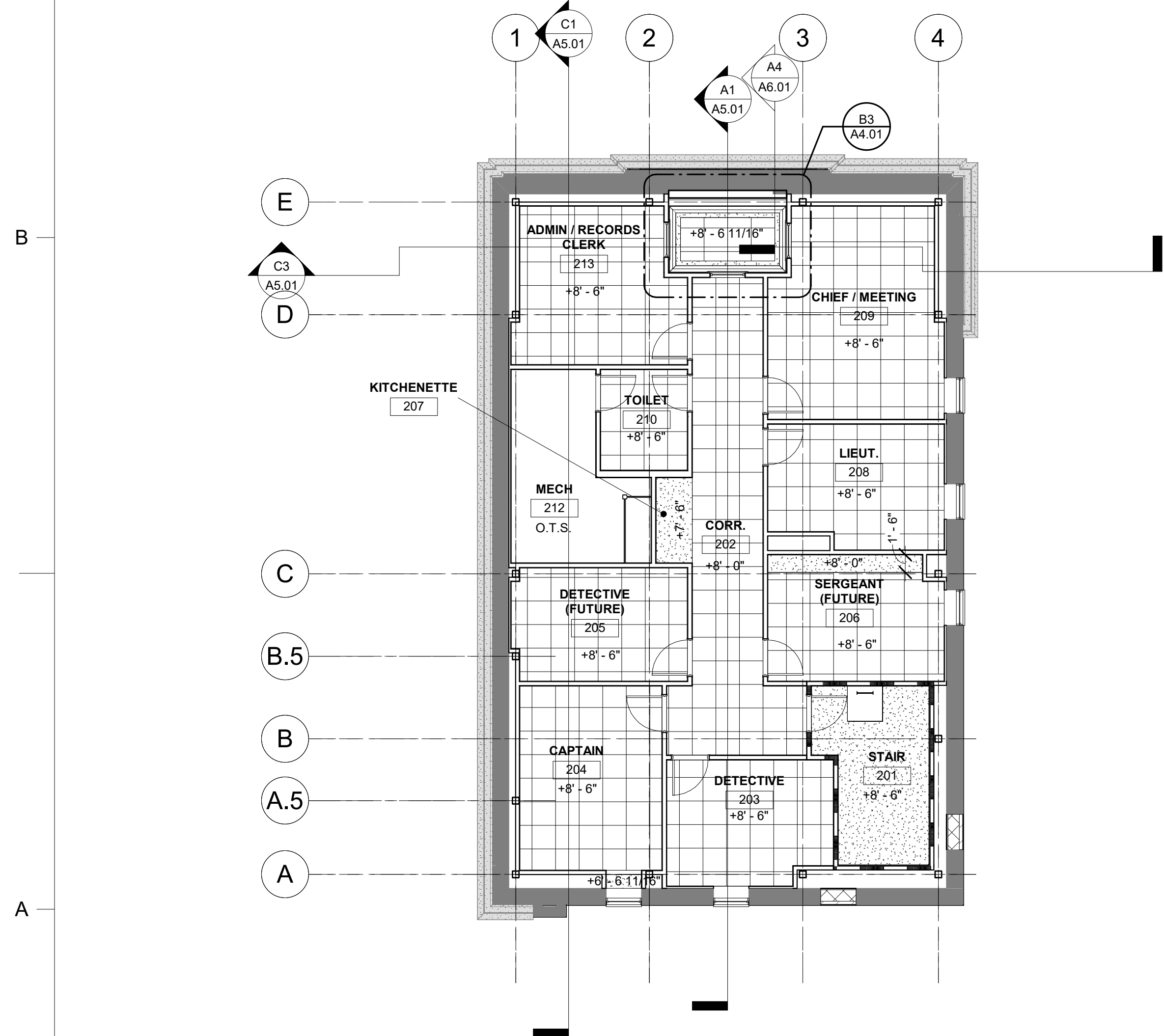




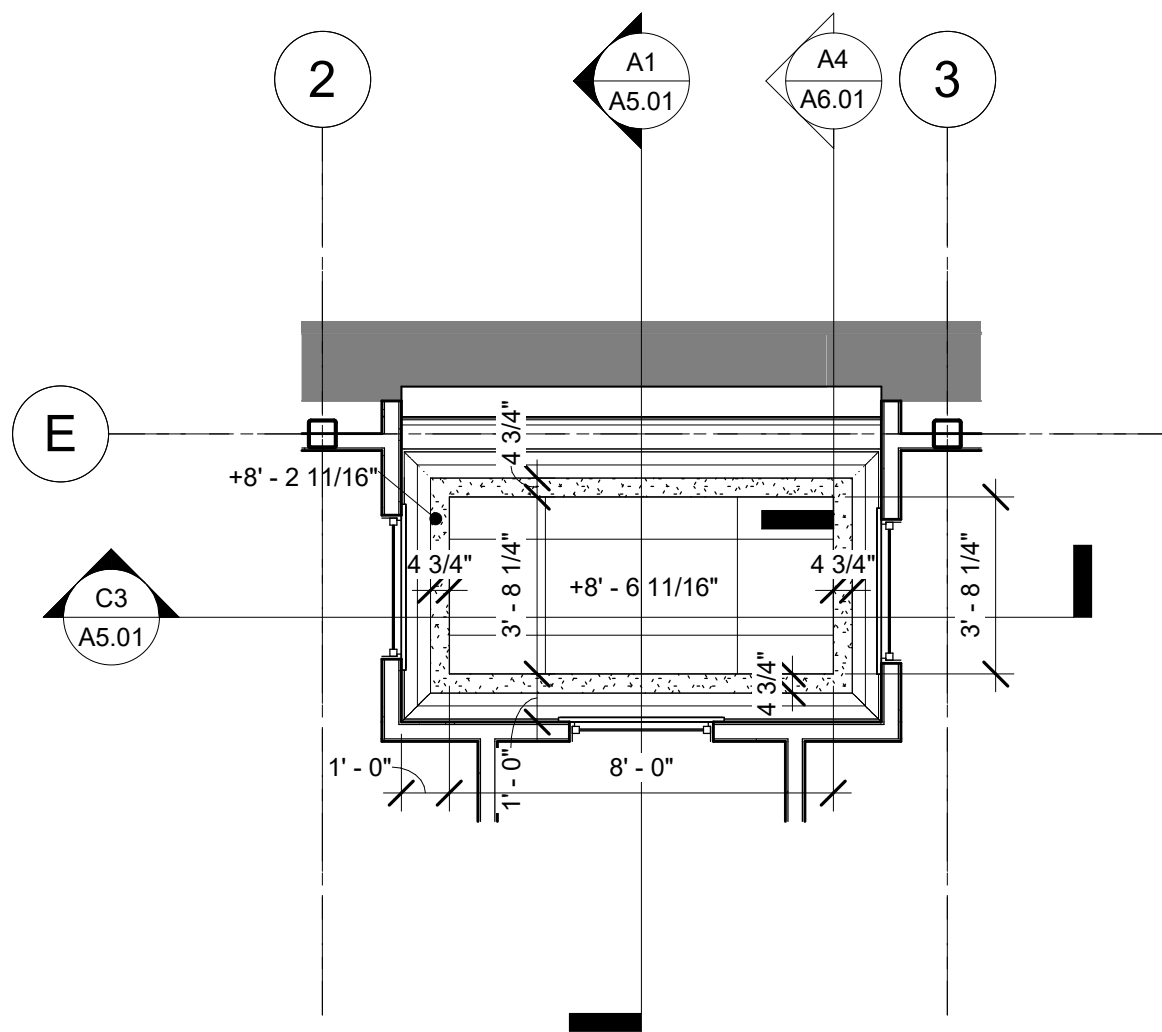
C1 BASEMENT REFLECTED CEILING PLAN
1/8" = 1'-0"



C3 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



A1 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



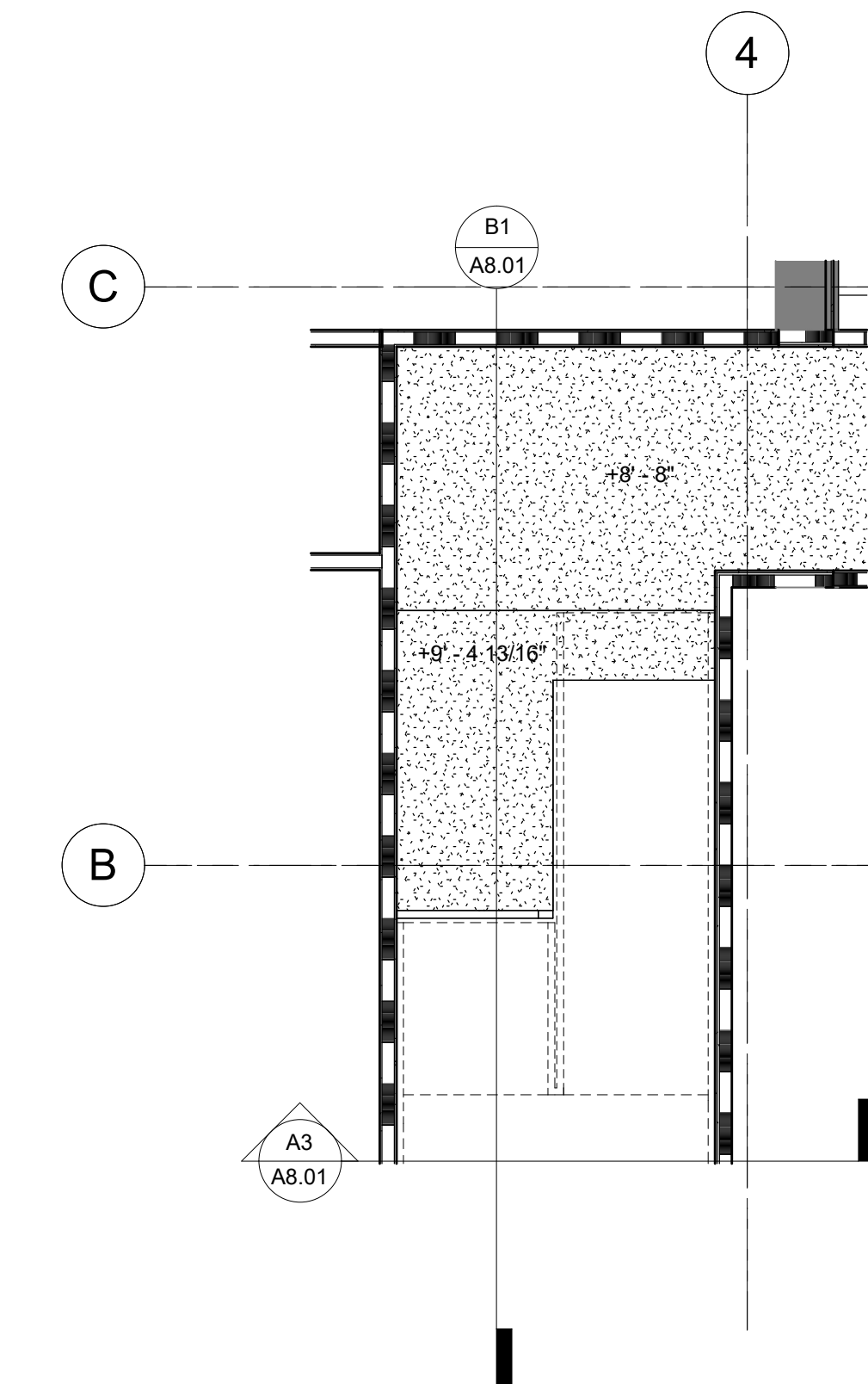
B3 SECOND FLOOR ENLARGED REFLECTED CEILING PLAN
1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

	2 x 2 ACOUSTICAL PANEL CEILING
	GYPSUM BOARD CEILING
	O.T.S. OPEN TO STRUCTURE
	CEILING HEIGHT ABOVE FINISHED FLOOR

NOTES

- REFER TO DETAILS & SPECIFICATIONS FOR CEILING SUSPENSION/ANCHOR INFORMATION.
- REFER TO SPECIFICATIONS FOR ACOUSTICAL PANEL CEILING GRID TYPE.
- REFER TO UL SYSTEMS SHEET FOR HORIZONTAL RATED ASSEMBLIES.



B5 ENLARGED CEILING PLAN @ STAIR
1/4" = 1'-0"

LEGEND

	TRUE NORTH
	PLAN NORTH
	EXISTING WALL TO REMAIN
	NEW WALL
	1 HOUR FIRE RATED PARTITION

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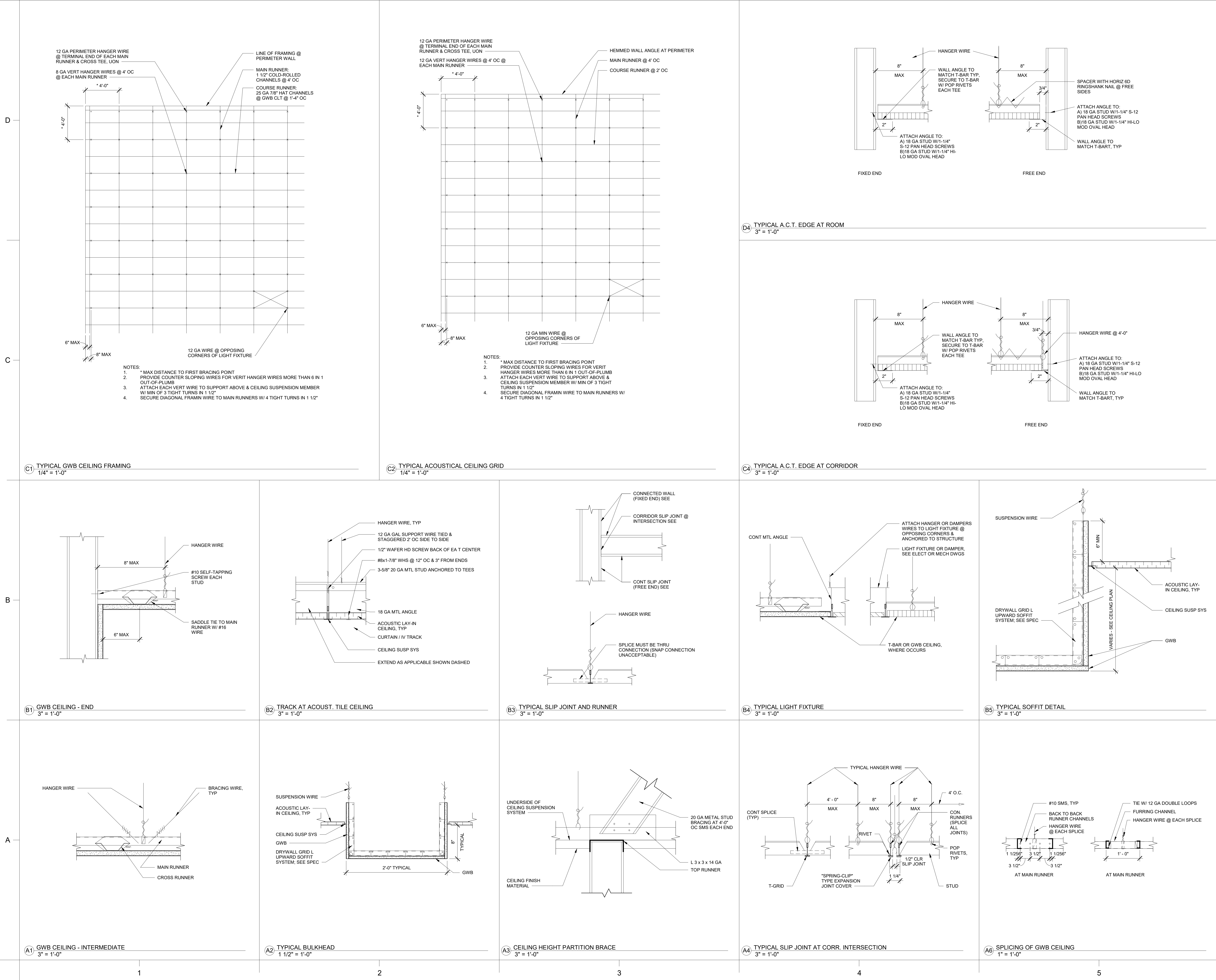
CANTON POLICE STATION RENO

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REFLECTED CEILING PLANS

A4.01



JULY 7, 2025



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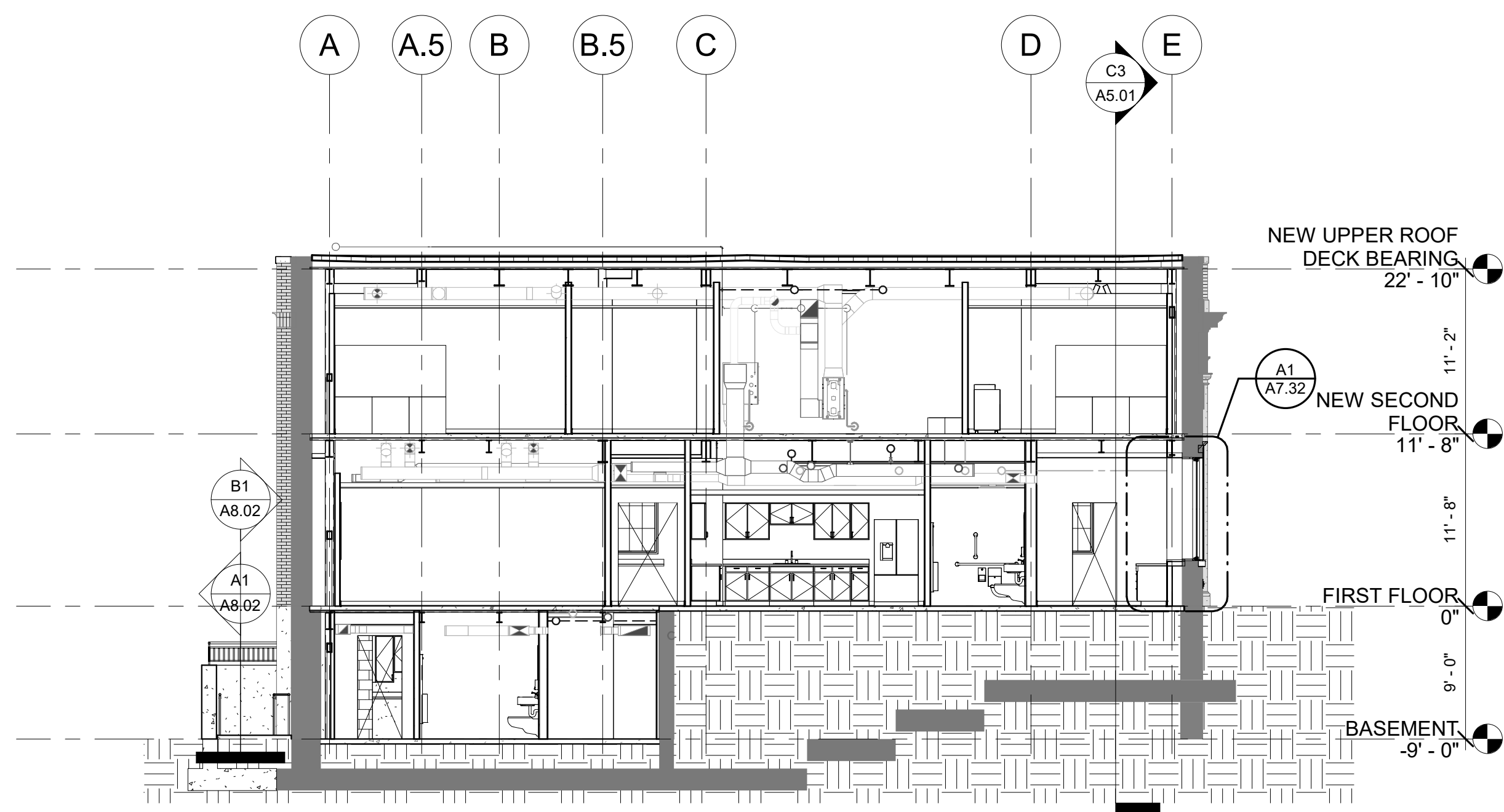
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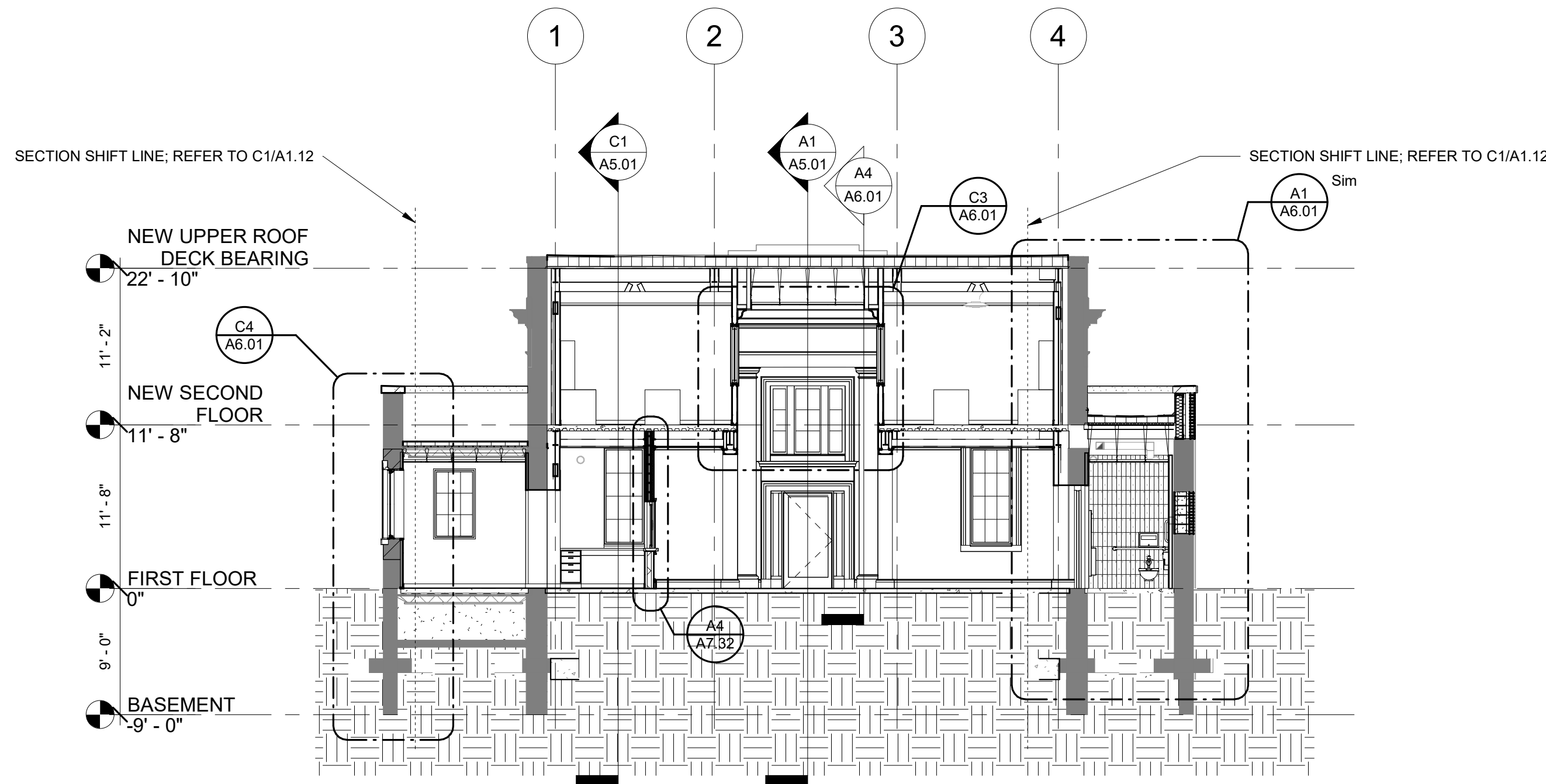
C

B

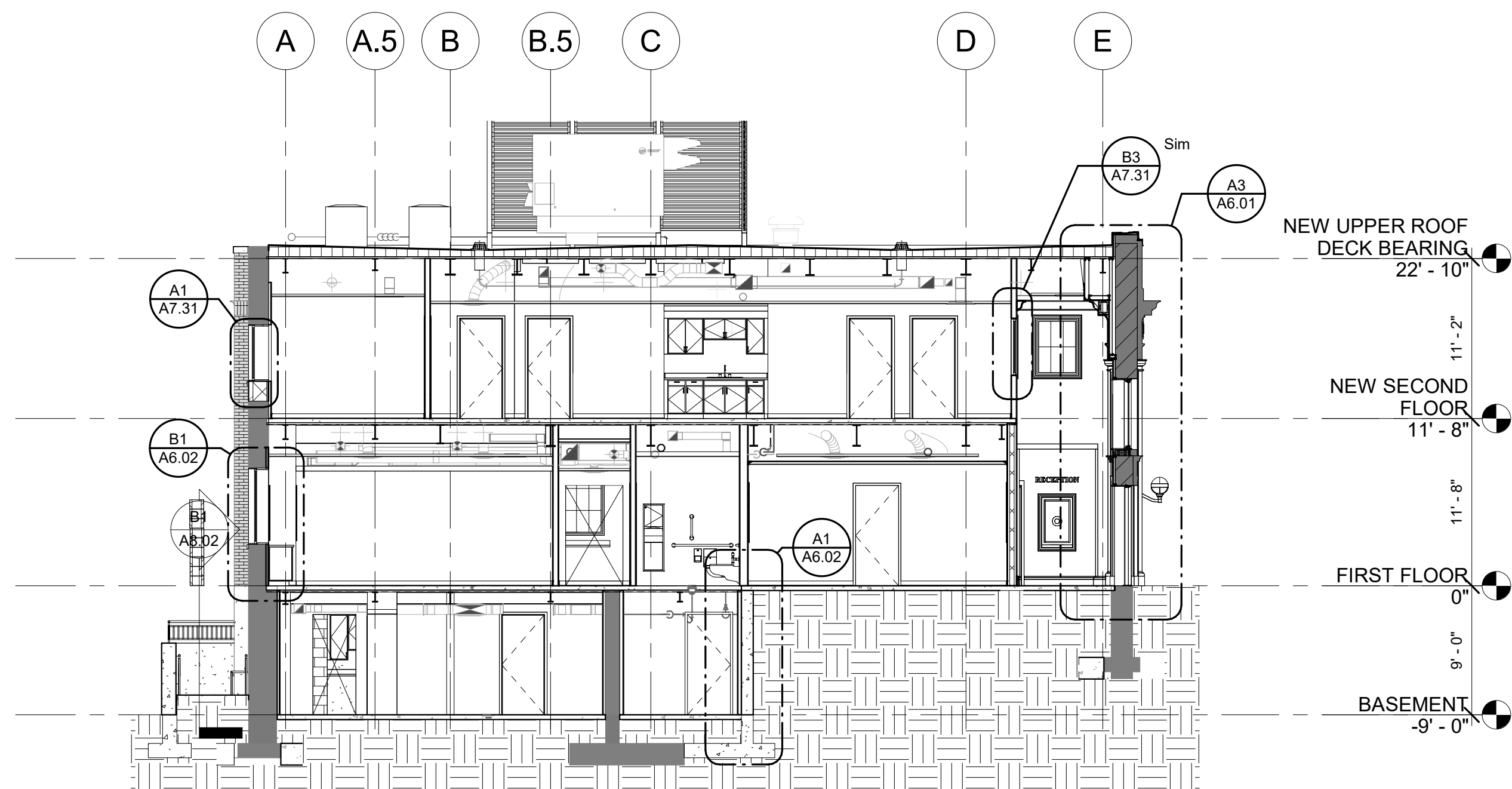
A



C1 LONGITUDINAL 2
1/8" = 1'-0"



C3 TRANSVERSE
1/8" = 1'-0"



A1 LONGITUDINAL 1
1/8" = 1'-0"

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BUILDING SECTIONS

A5.01

A circular professional seal for Michael Salvatore Supino, a Registered Architect in North Carolina. The seal features the text "NORTH CAROLINA" at the top, "REGISTERED" at the top center, "13014" in the center, and "ARCHITECT" at the bottom center. The name "MICHAEL SALVATORE SUPINO" is written along the bottom inner edge. A signature is visible over the word "ARCHITECT".

CANTON POLICE STATION RENO

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A6.01

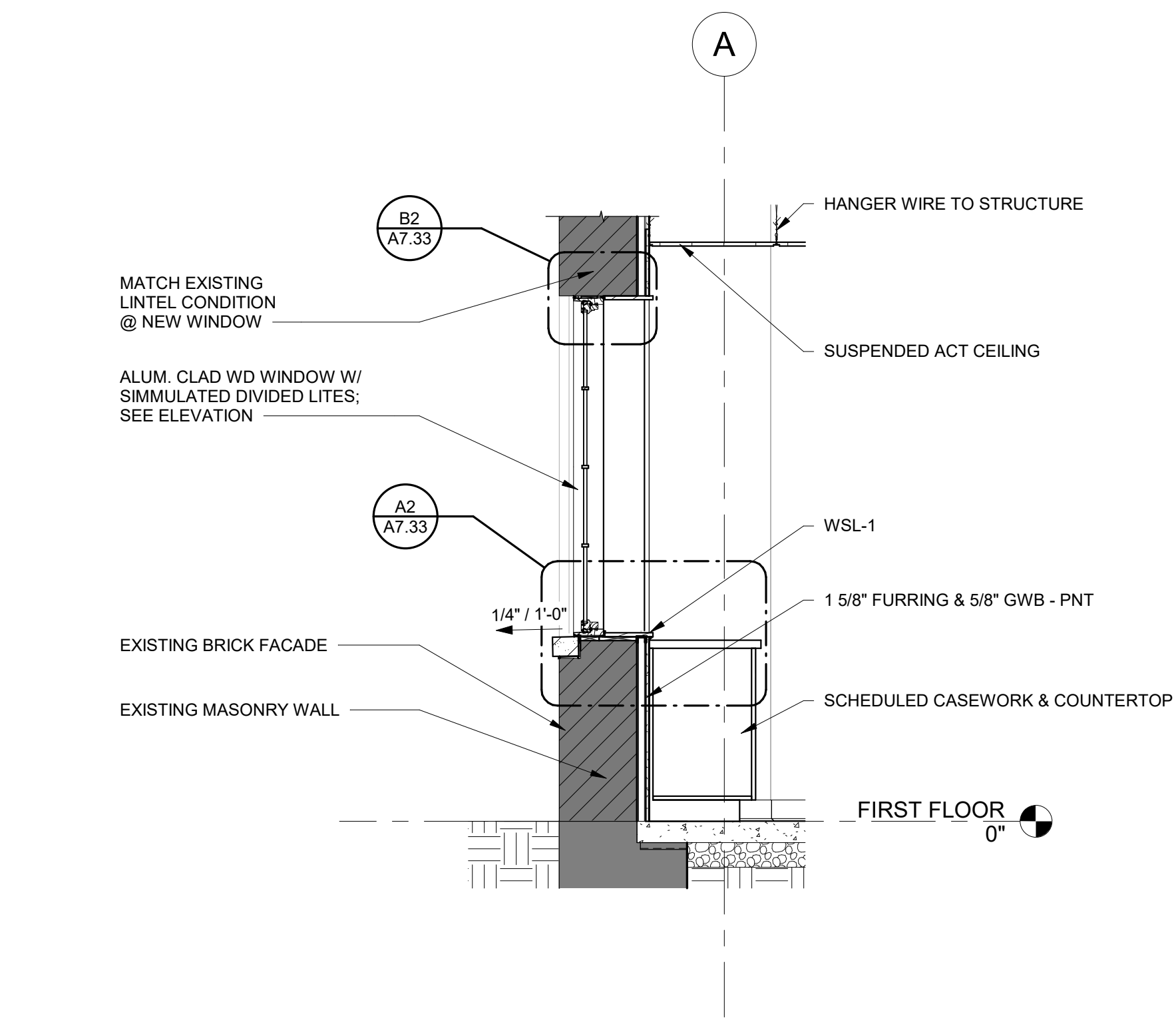


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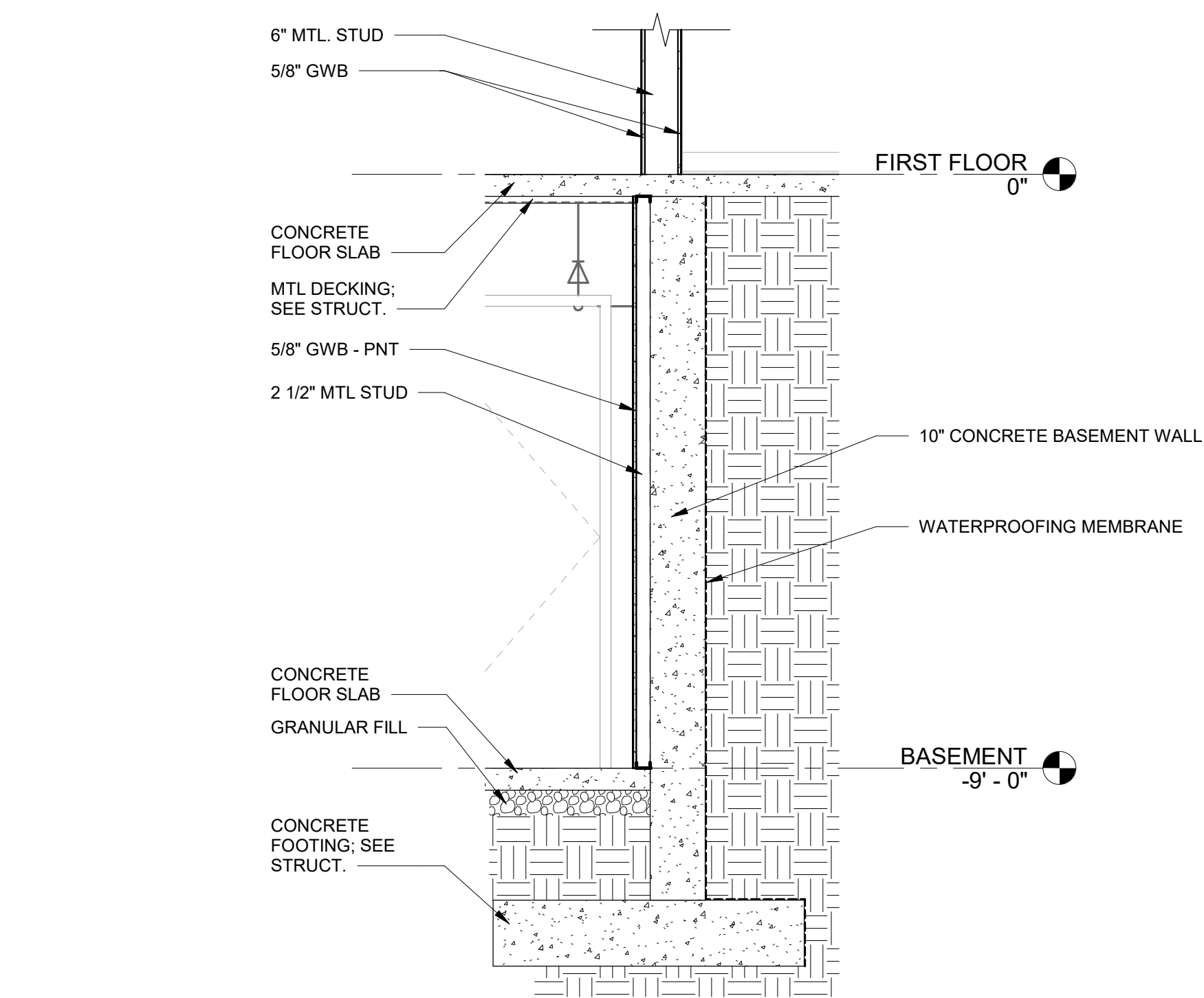
C

B

A



B1) WALL SECTION @ TRAINING ROOM WALL
1/2" = 1'-0"



A1) WALL SECTION @ BASEMENT WALL
1/2" = 1'-0"

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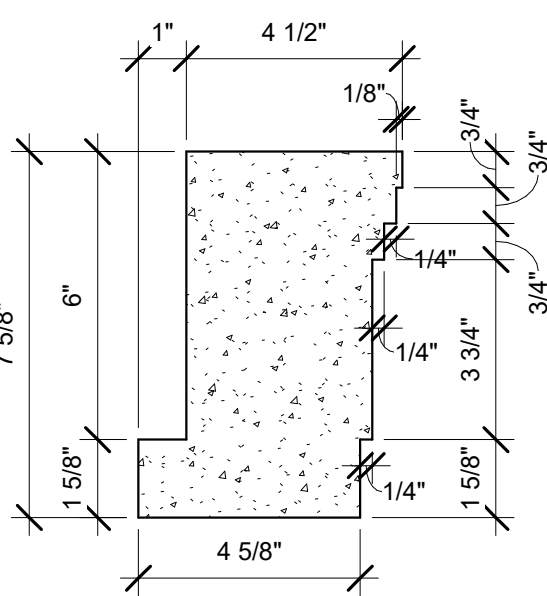
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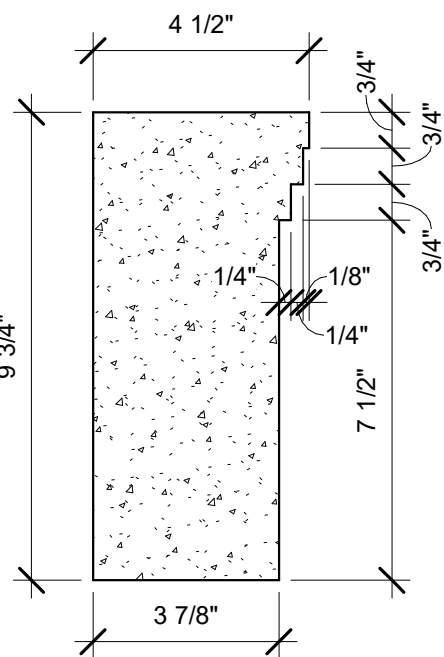
WALL SECTIONS

A6.02

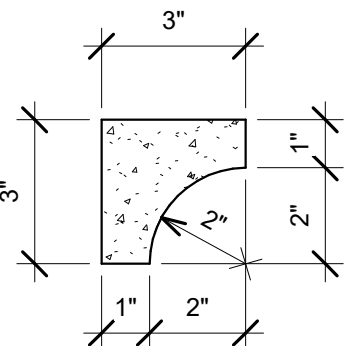
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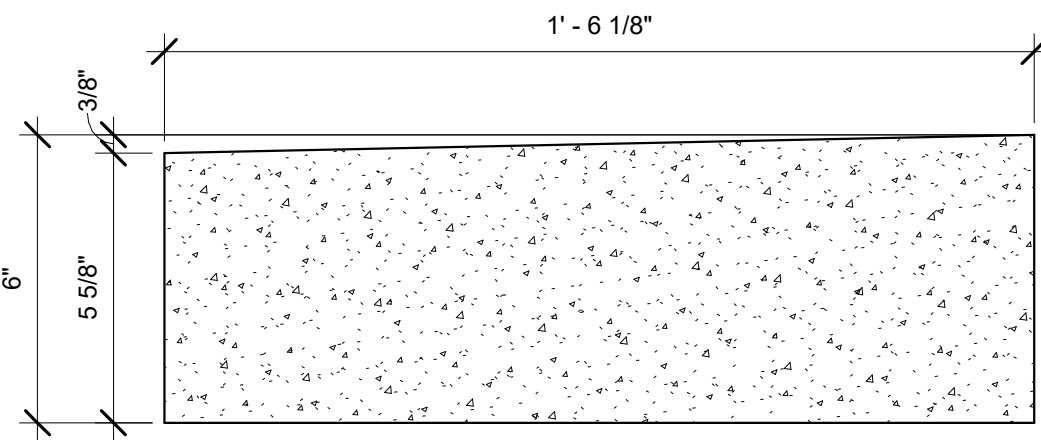
EP-1
3" = 1'-0"
*PROFILE TO MATCH EXISTING WINDOW SURROUNDS, V.I.F.



EP-2
3" = 1'-0"
*PROFILE TO MATCH EXISTING WINDOW SURROUNDS, V.I.F.

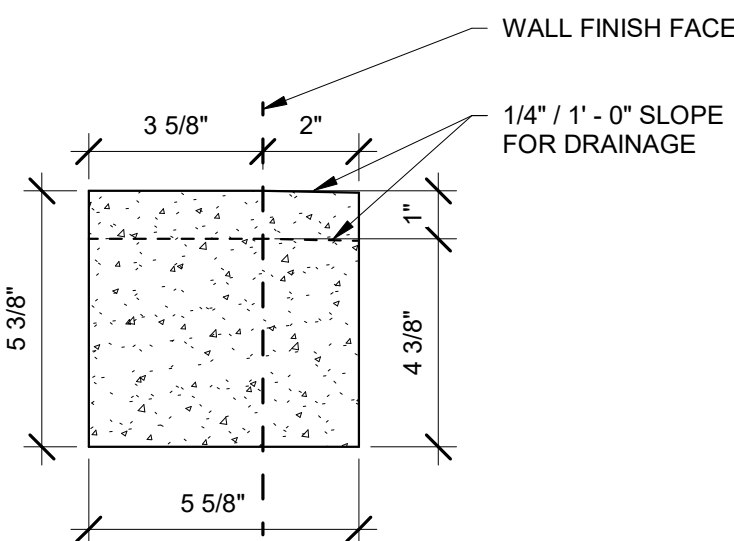
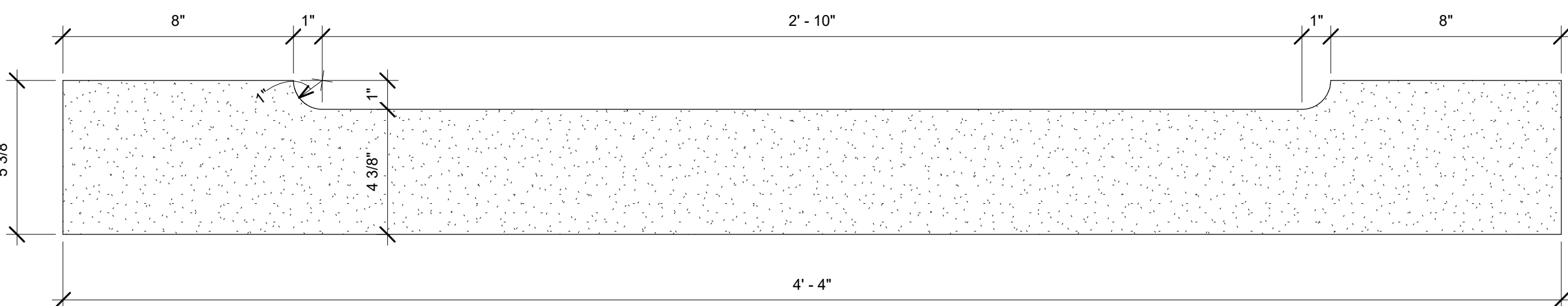


EP-3
3" = 1'-0"
*PROFILE TO MATCH EXISTING WINDOW SURROUNDS, V.I.F.



EP-4
3" = 1'-0"
*PROFILE TO MATCH EXISTING CAST COPING PARAPET, V.I.F.

C



CS-1
3" = 1'-0"
*PROFILE & SILL TO MATCH EXISTING, V.I.F.

B



ENLARGED ENTRY SIGNAGE
1/2" = 1'-0"

A

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JULY 7, 2025



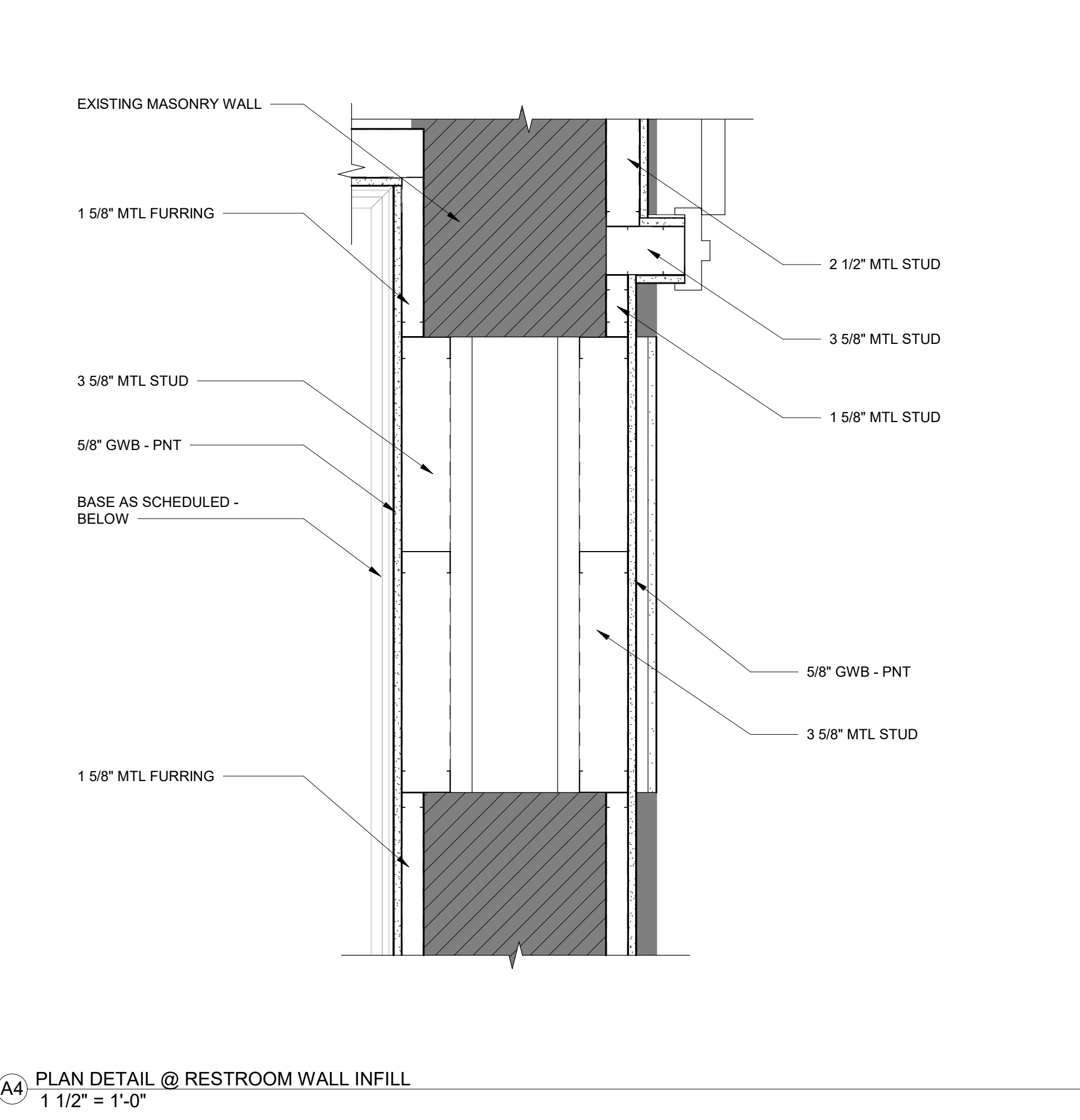
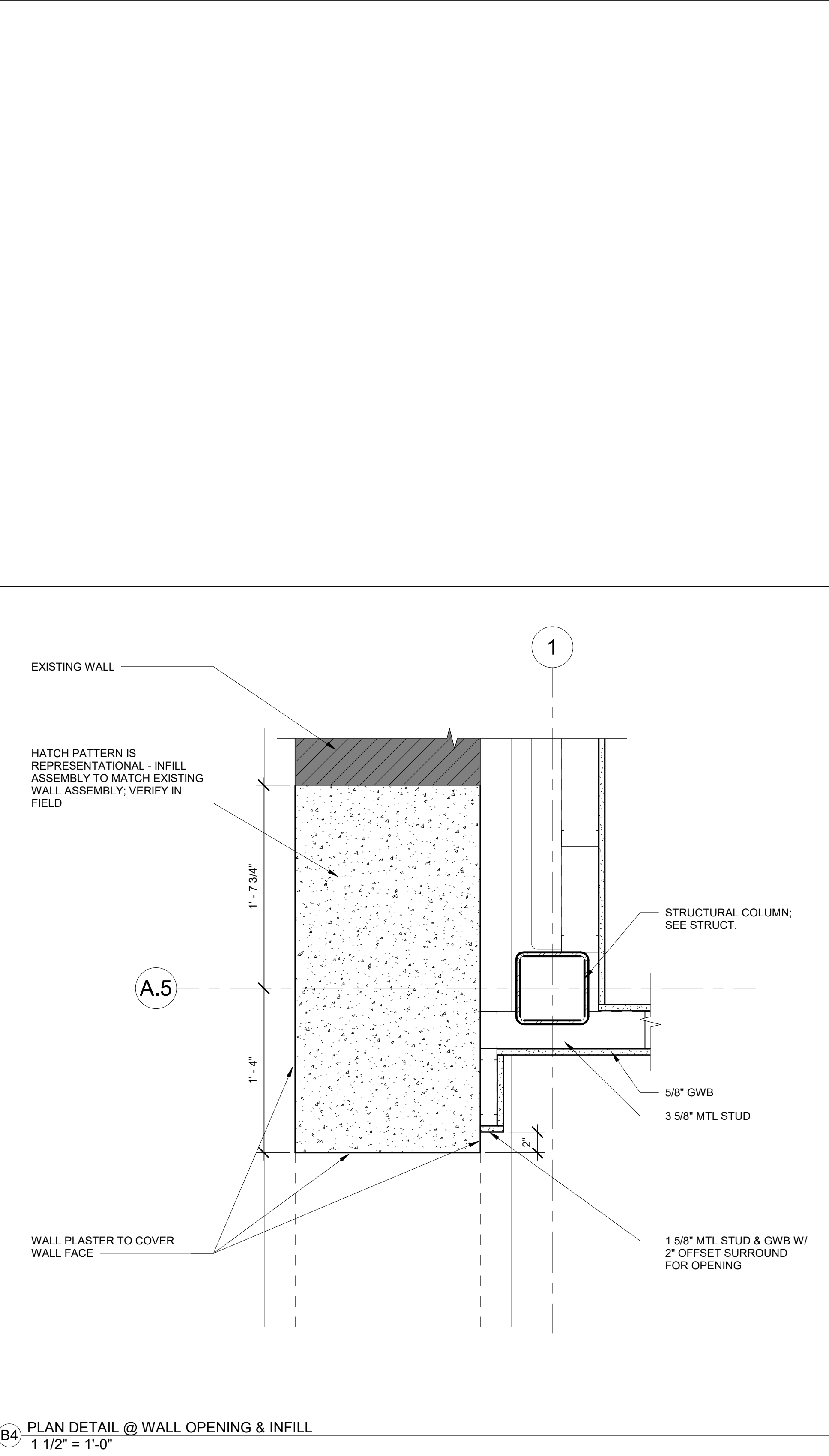
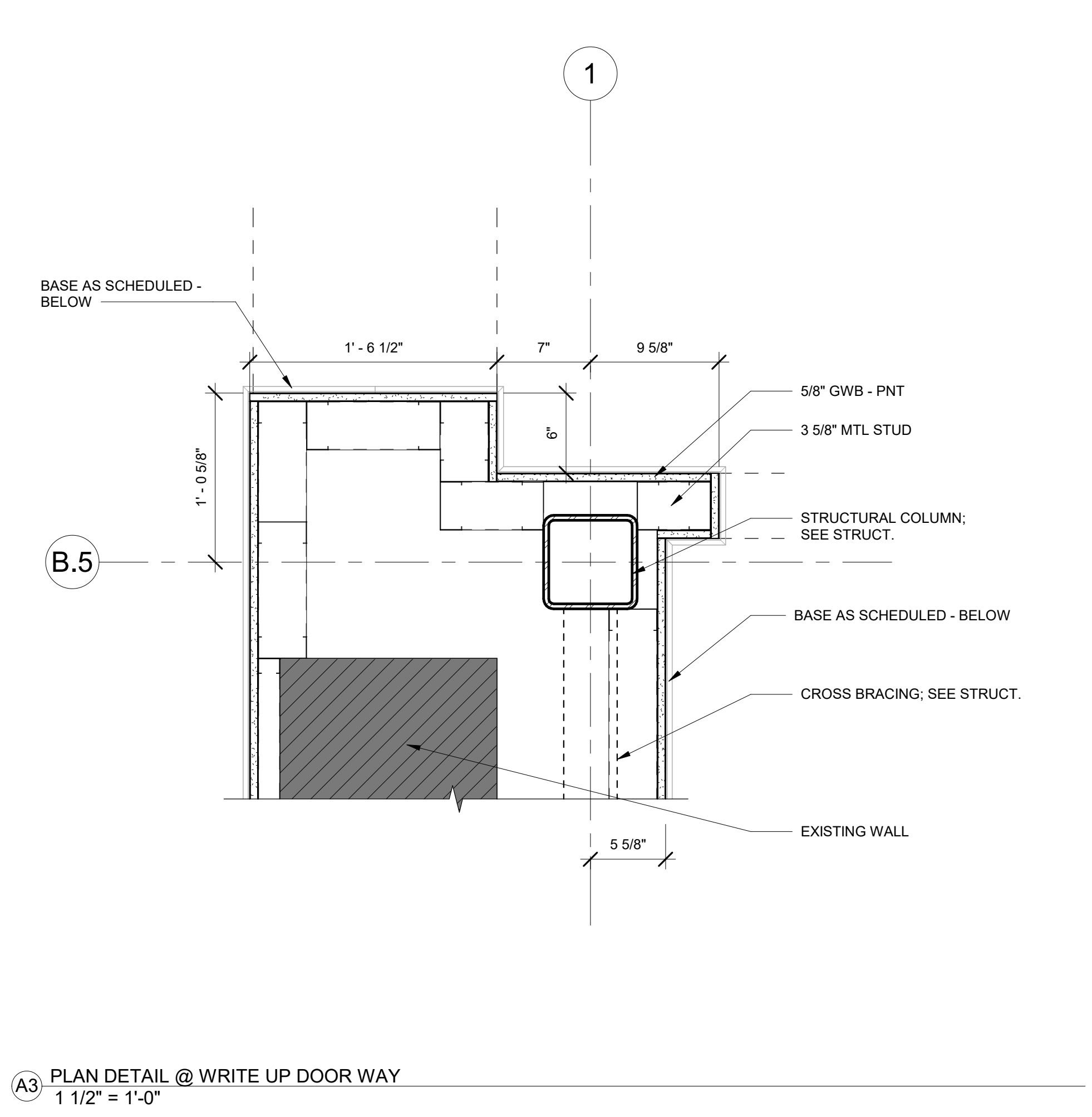
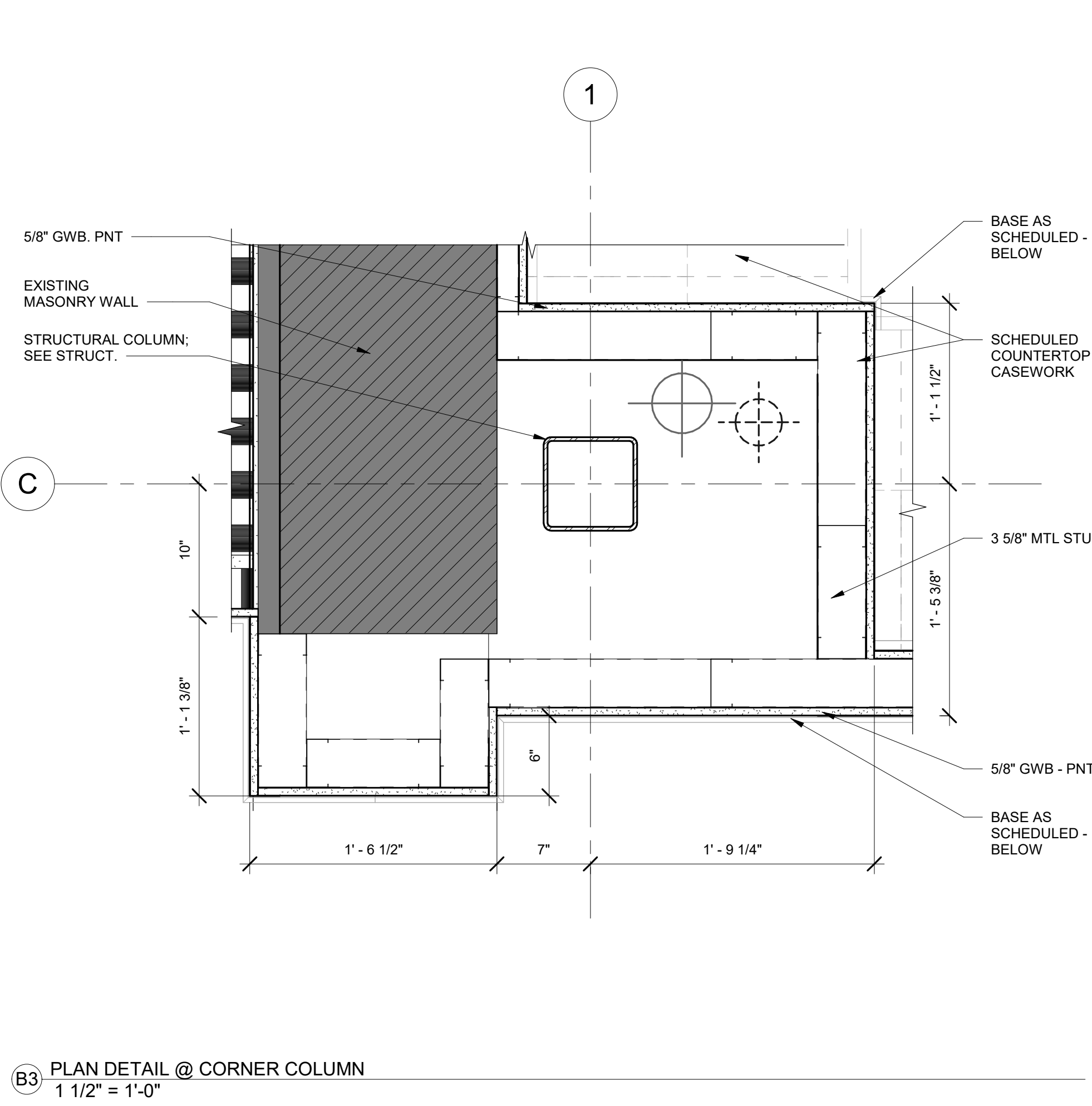
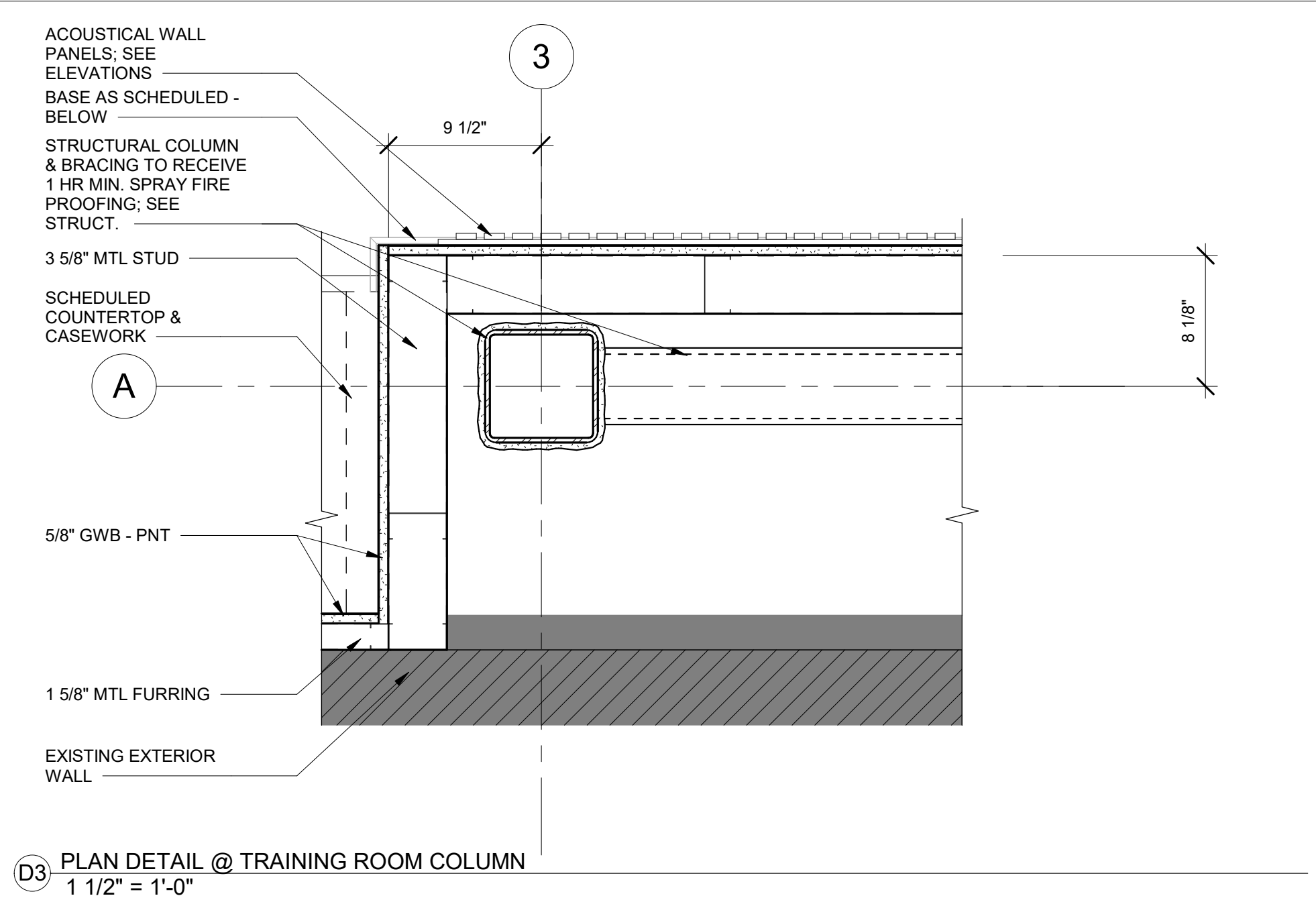
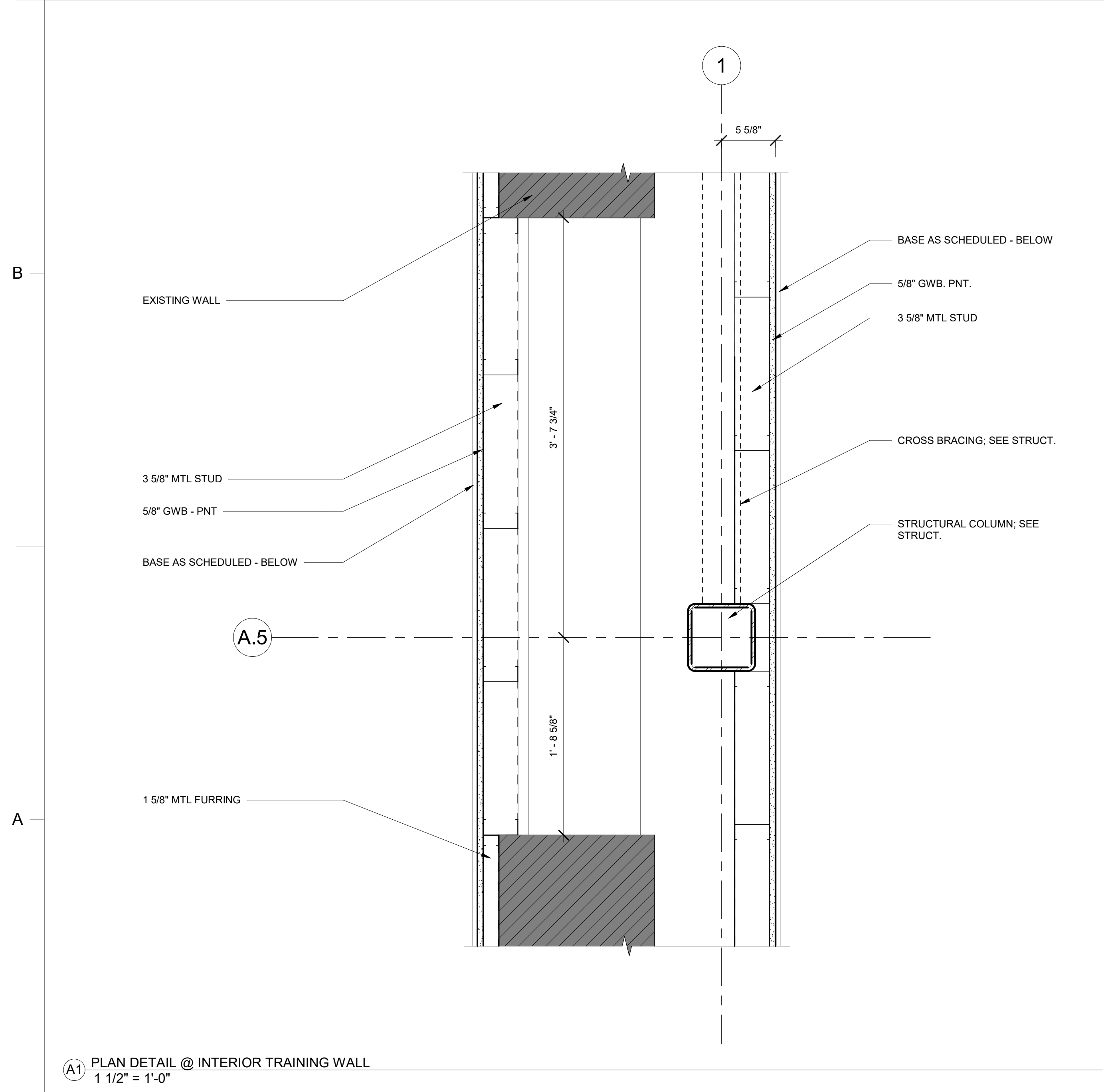
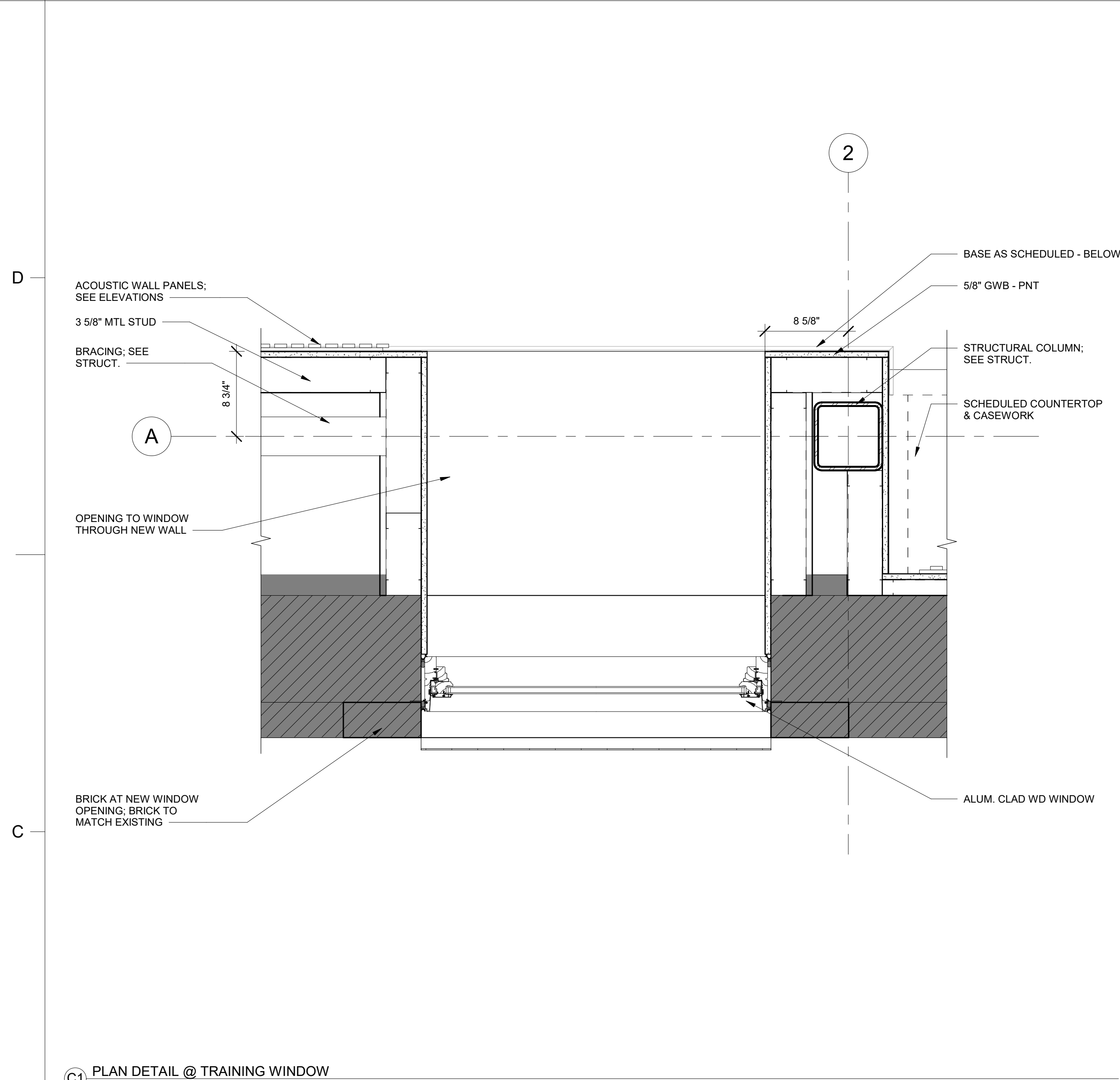
CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
Date: JULY 7, 2025

EXTERIOR
PROFILES &
DETAILS

A7.01



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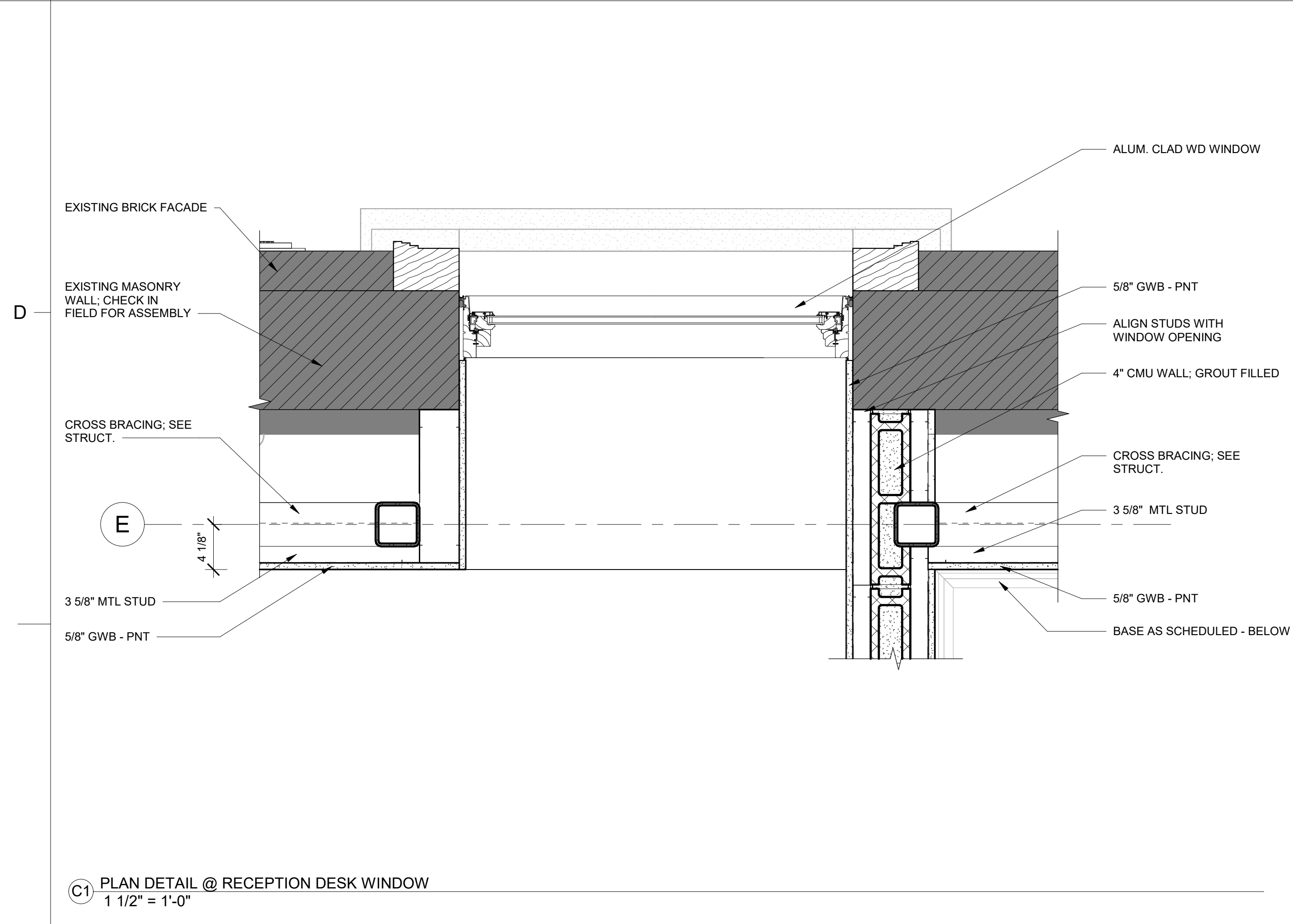
CANTON POLICE STATION RENO

No.	Description	Date

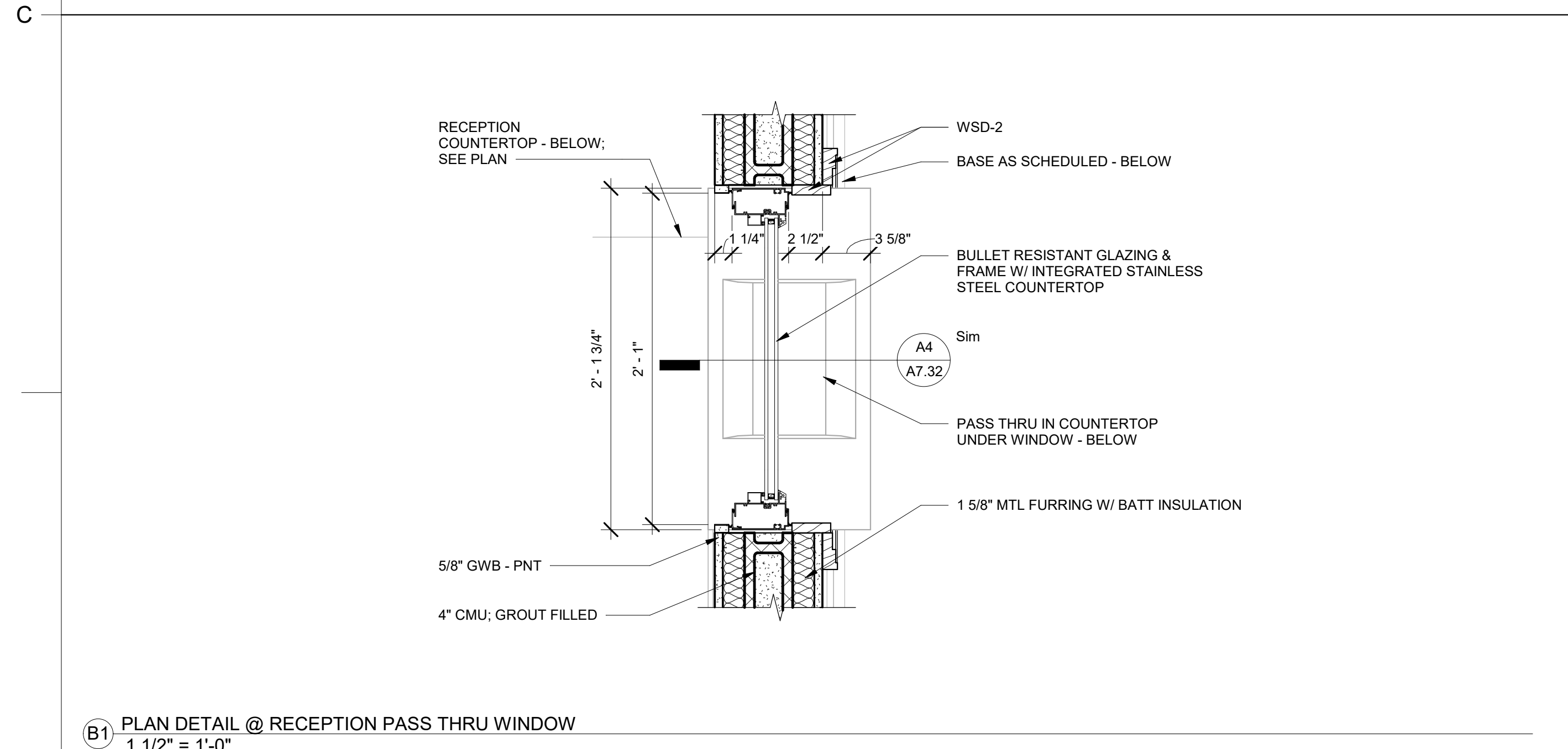
Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
Date: JULY 7, 2025

PLAN DETAILS

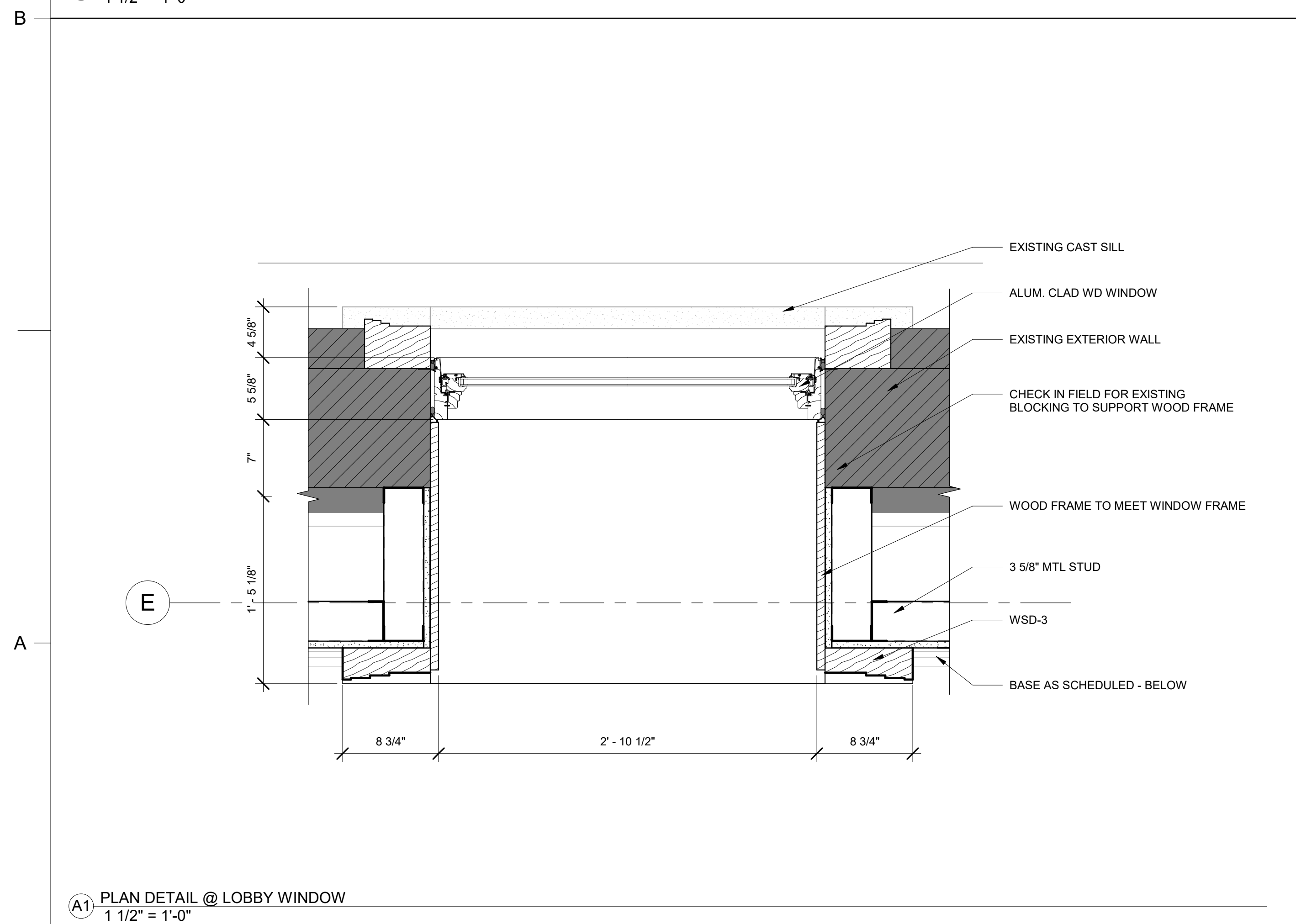
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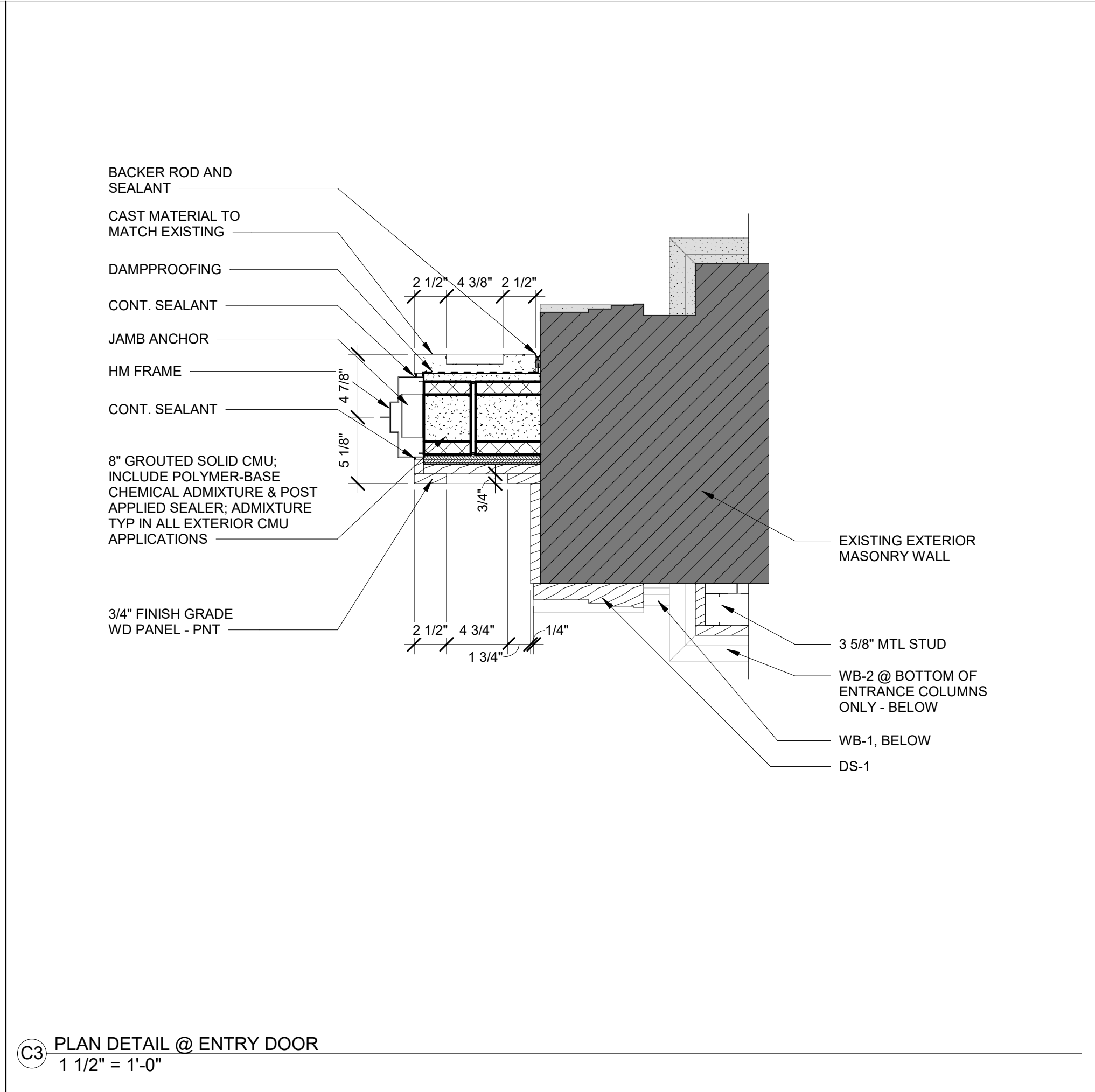
C1 PLAN DETAIL @ RECEPTION DESK WINDOW
1 1/2" = 1'-0"



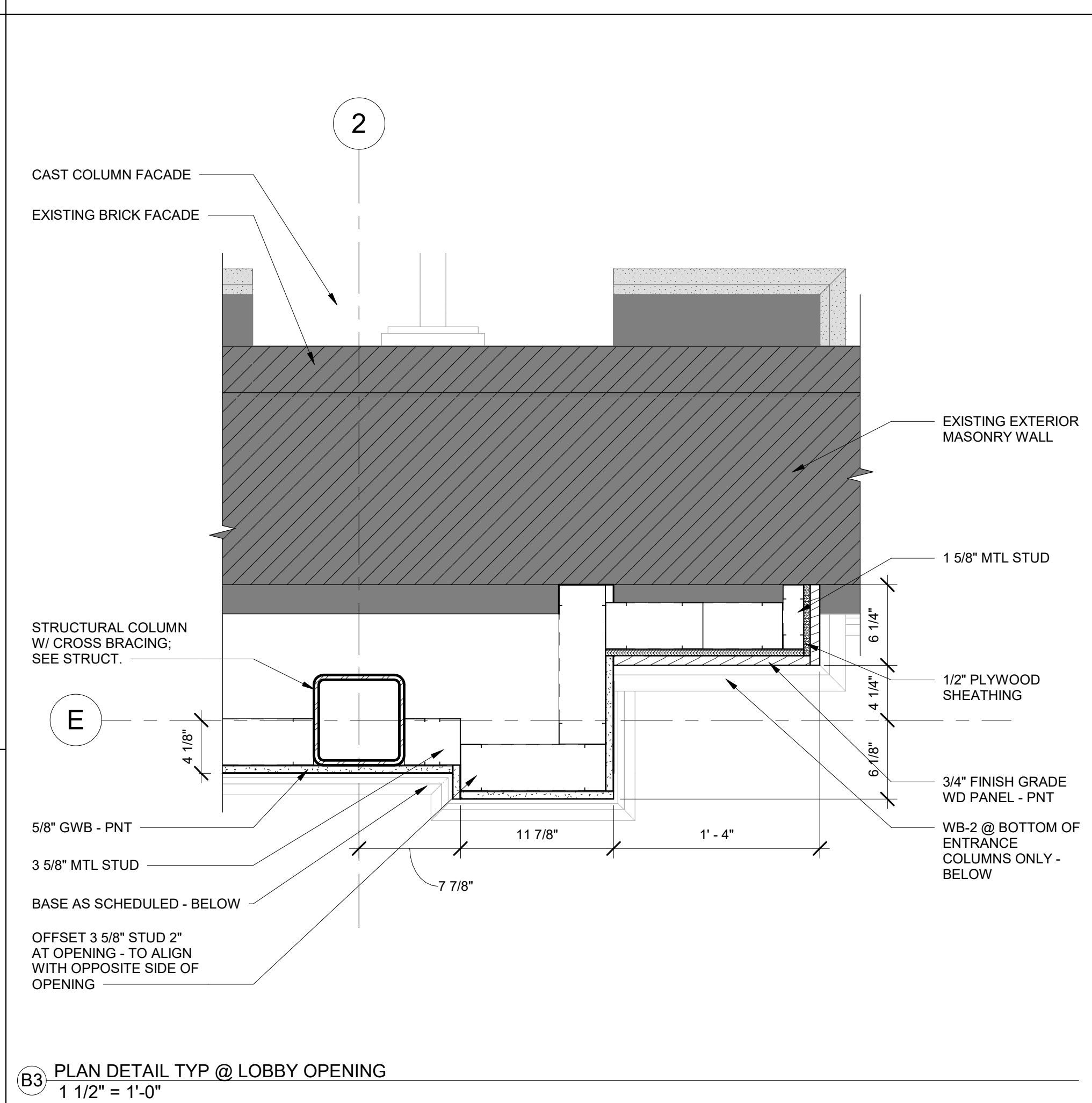
B1 PLAN DETAIL @ RECEPTION PASS THRU WINDOW
1 1/2" = 1'-0"



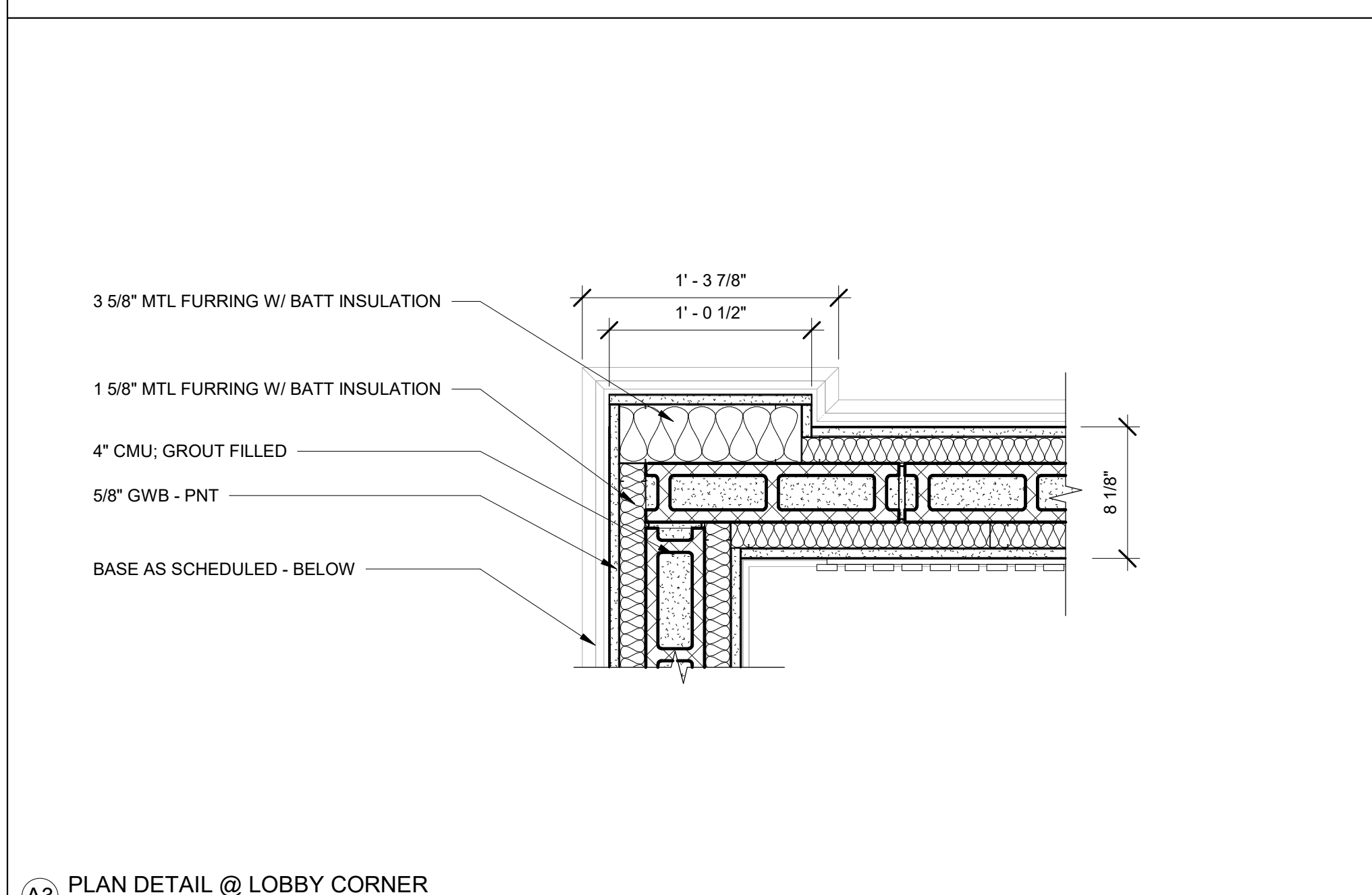
A1 PLAN DETAIL @ LOBBY WINDOW
1 1/2" = 1'-0"



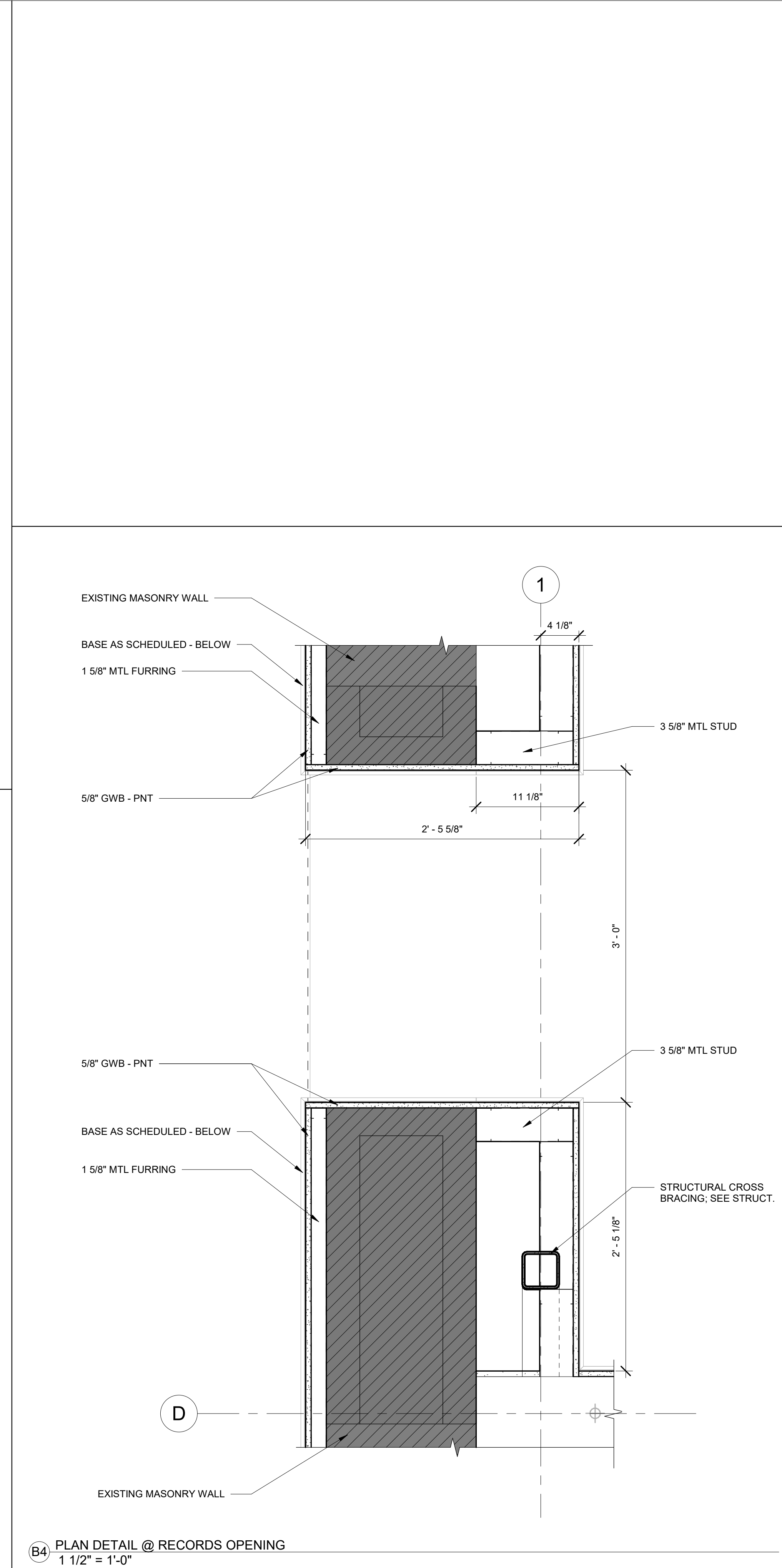
C3 PLAN DETAIL @ ENTRY DOOR
1 1/2" = 1'-0"



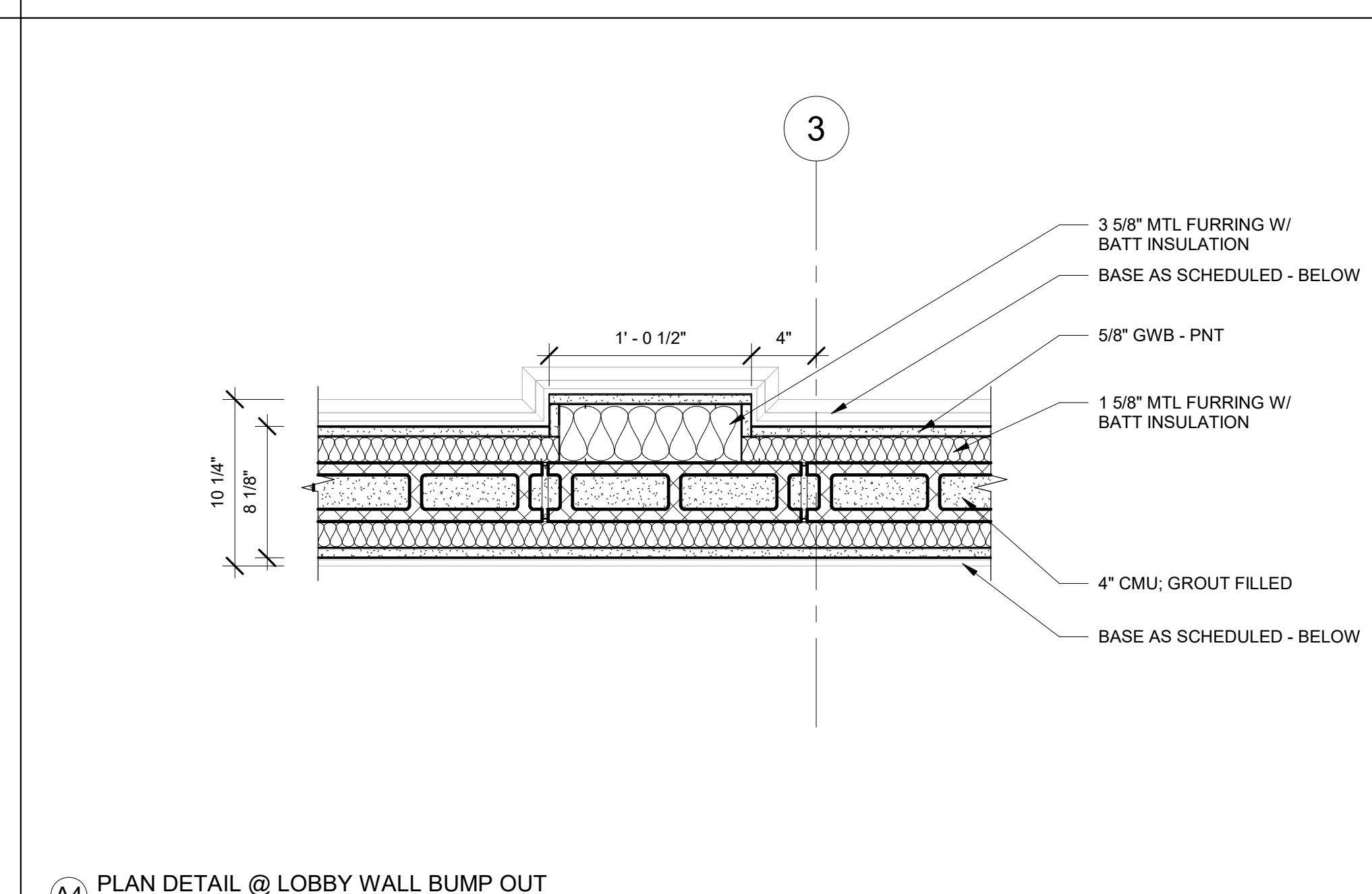
B3 PLAN DETAIL TYP @ LOBBY OPENING
1 1/2" = 1'-0"



A3 PLAN DETAIL @ LOBBY CORNER
1 1/2" = 1'-0"



B4 PLAN DETAIL @ RECORDS OPENING
1 1/2" = 1'-0"



A4 PLAN DETAIL @ LOBBY WALL BUMP OUT
1 1/2" = 1'-0"



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PLAN DETAILS

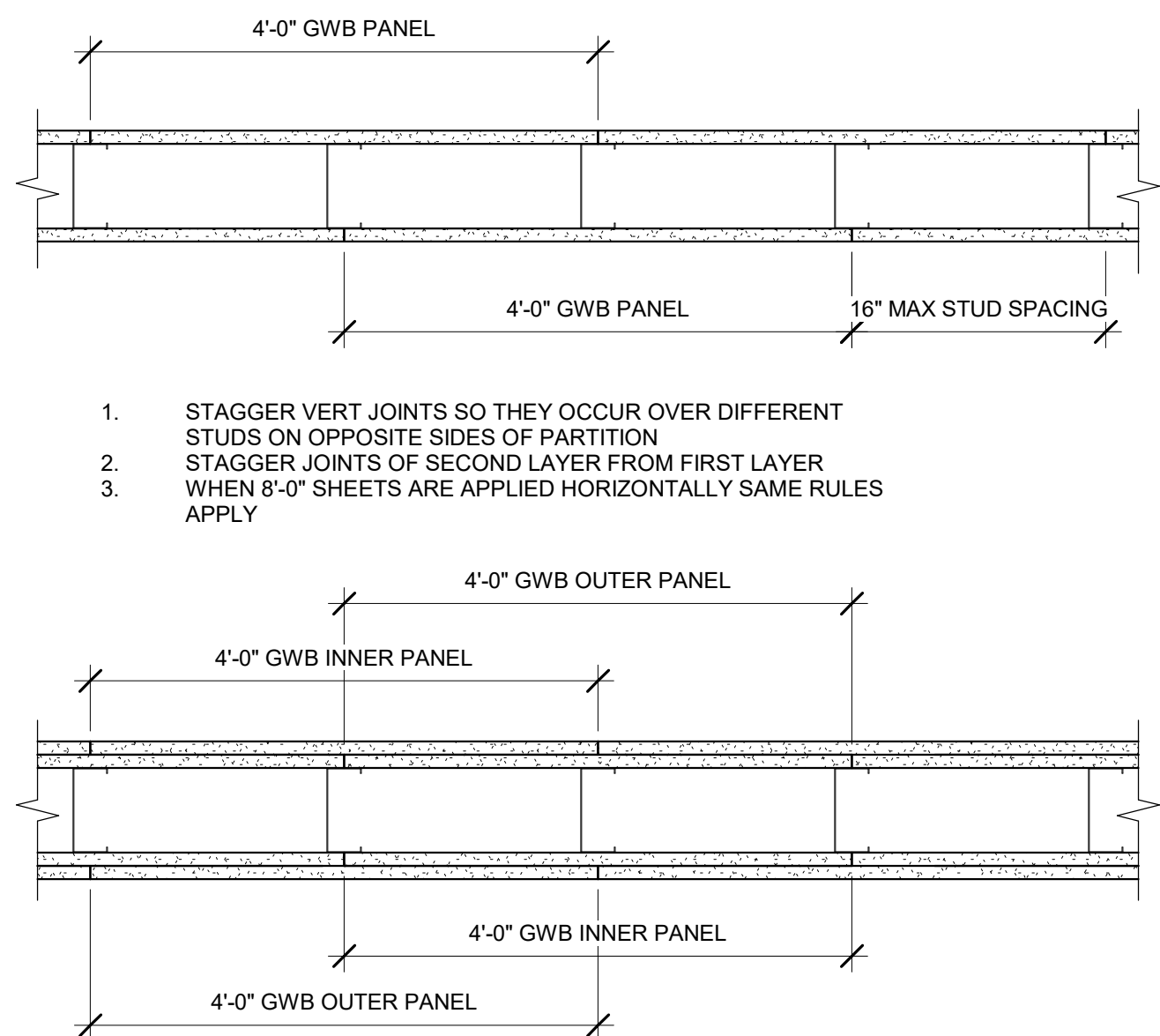
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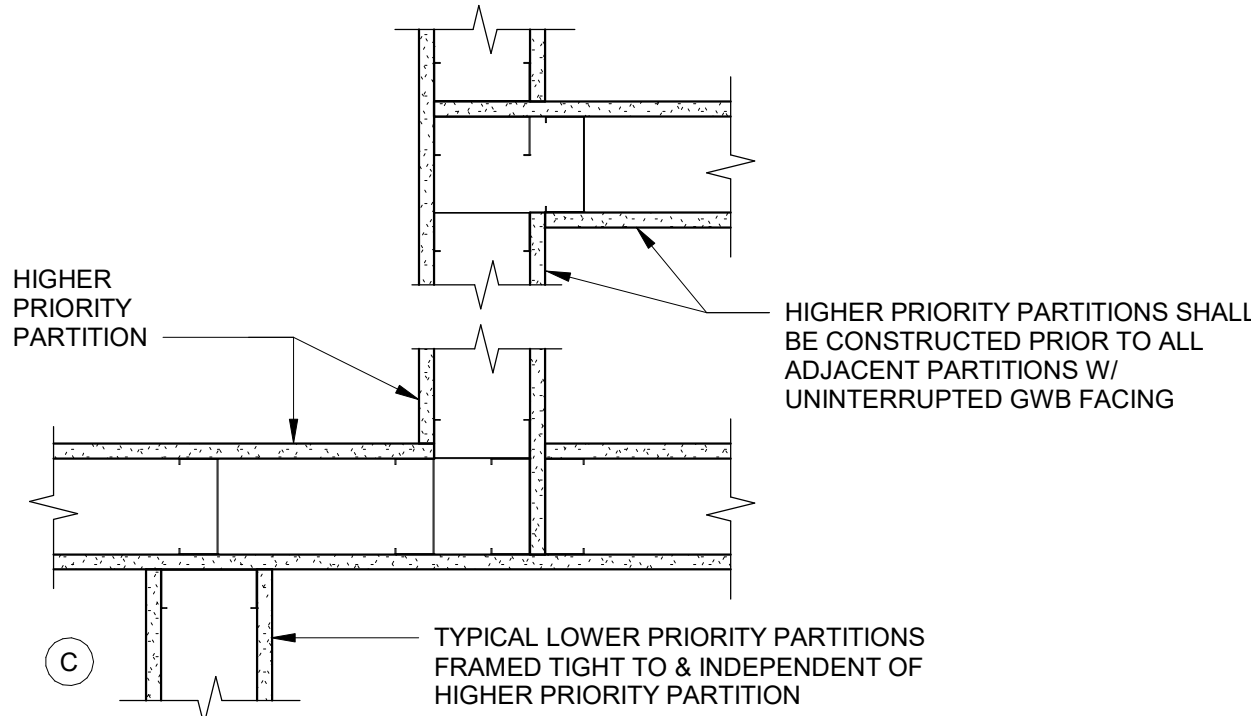
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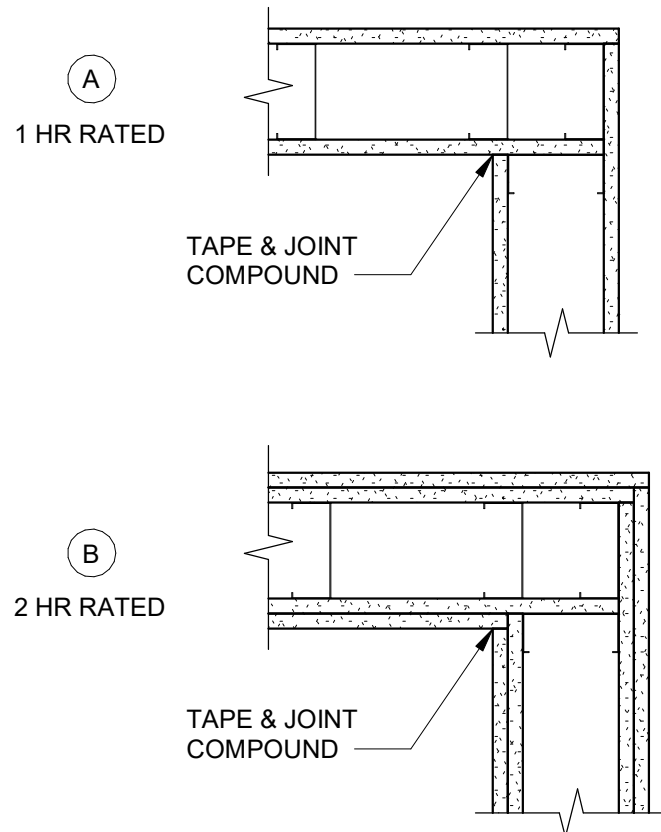
A



A1 WALLBOARD JOINT LAYOUT
1 1/2" = 1'-0"



A2 GWB PARTITION INTERSECTIONS
1 1/2" = 1'-0"



A3 CORNER OF RATED PARTITIONS
1 1/2" = 1'-0"

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STANDARD PLAN DETAILS

A7.21

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[illegible]

Project Number:	2023-001-01
Date:	JULY 7, 2025

A7.31





JULY 7, 2025



CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

SECTION DETAILS

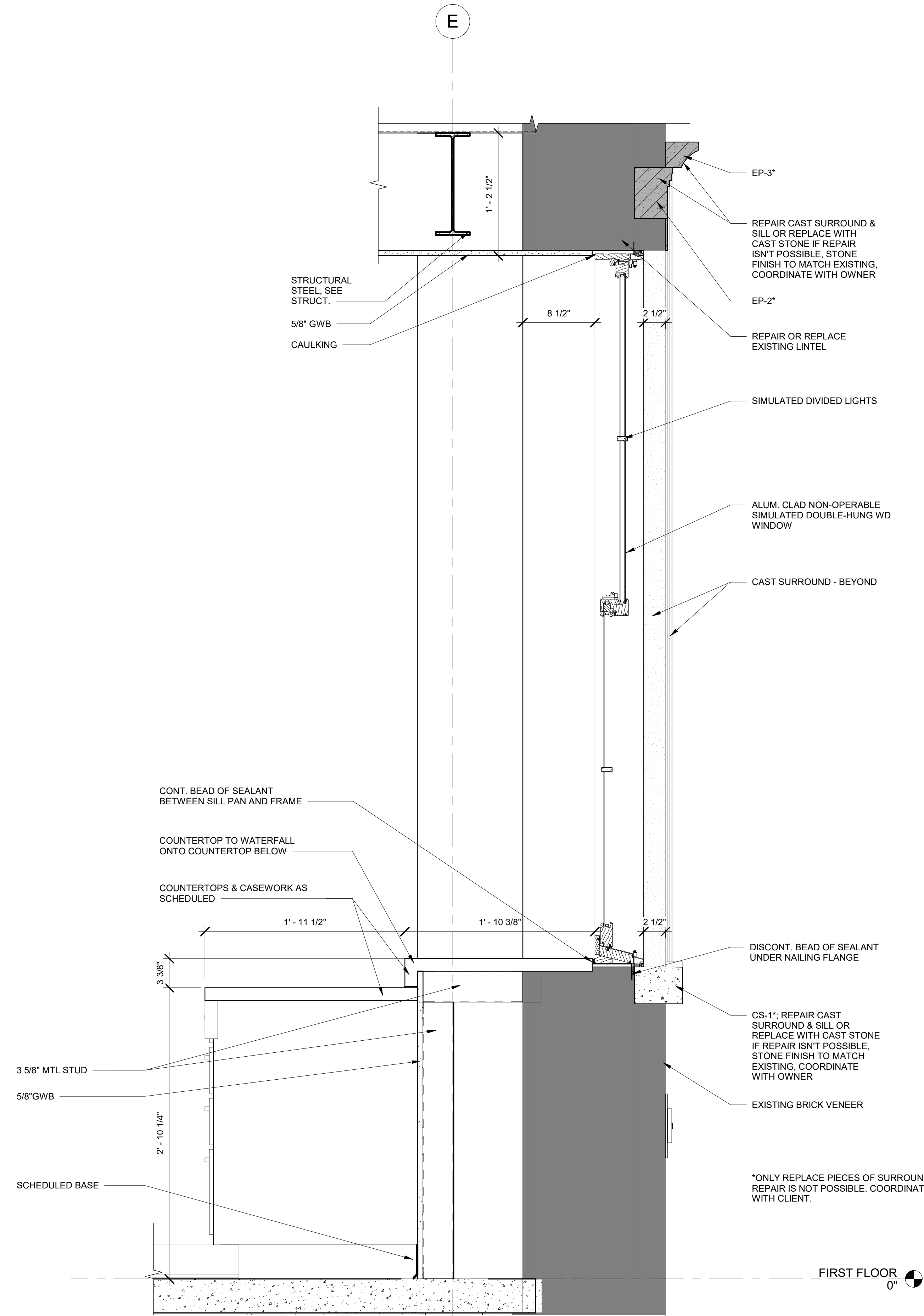
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C

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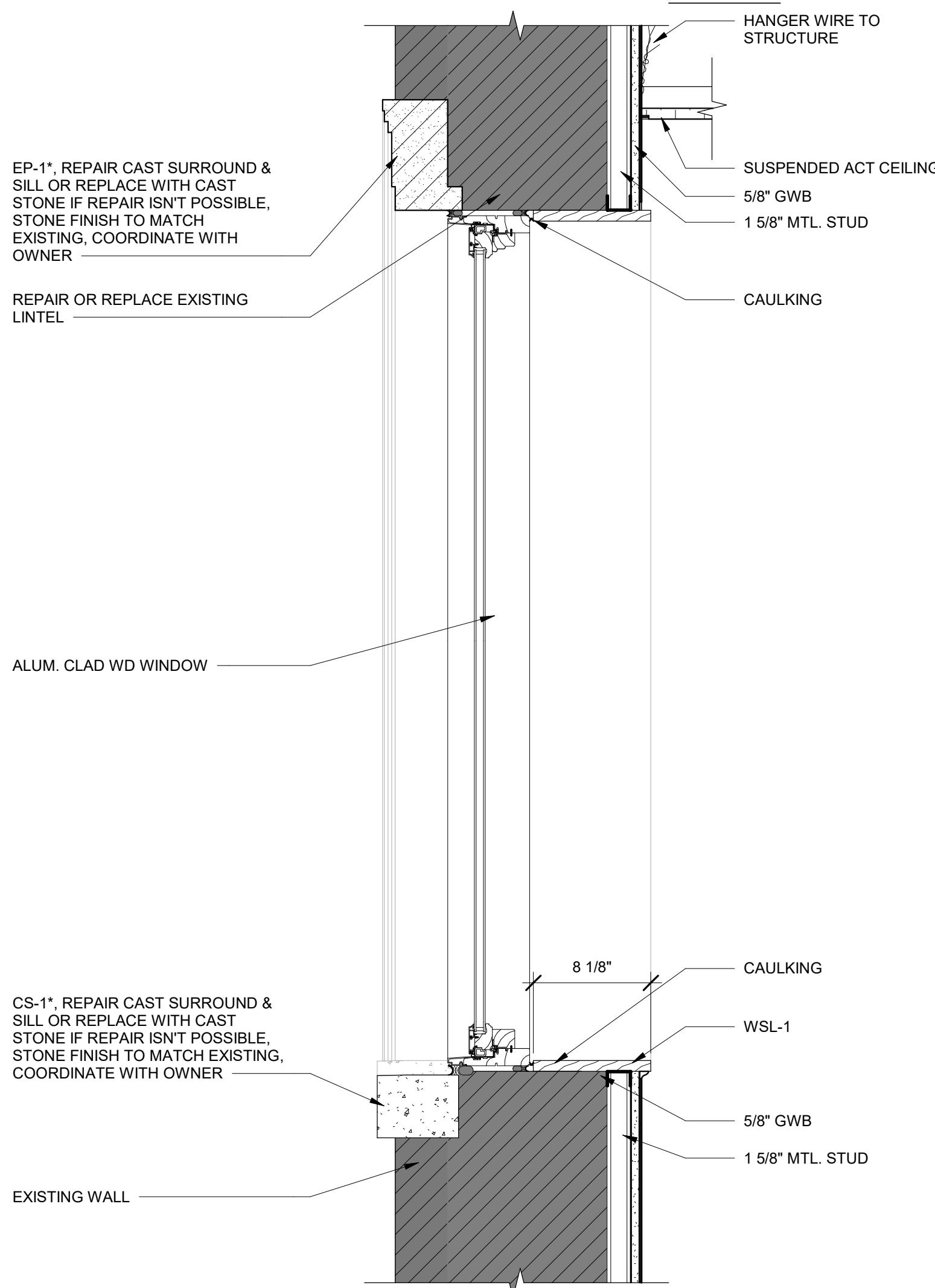
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A1 SECTION DETAIL @ RECEPTION DESK WINDOW
1 1/2" = 1'-0"

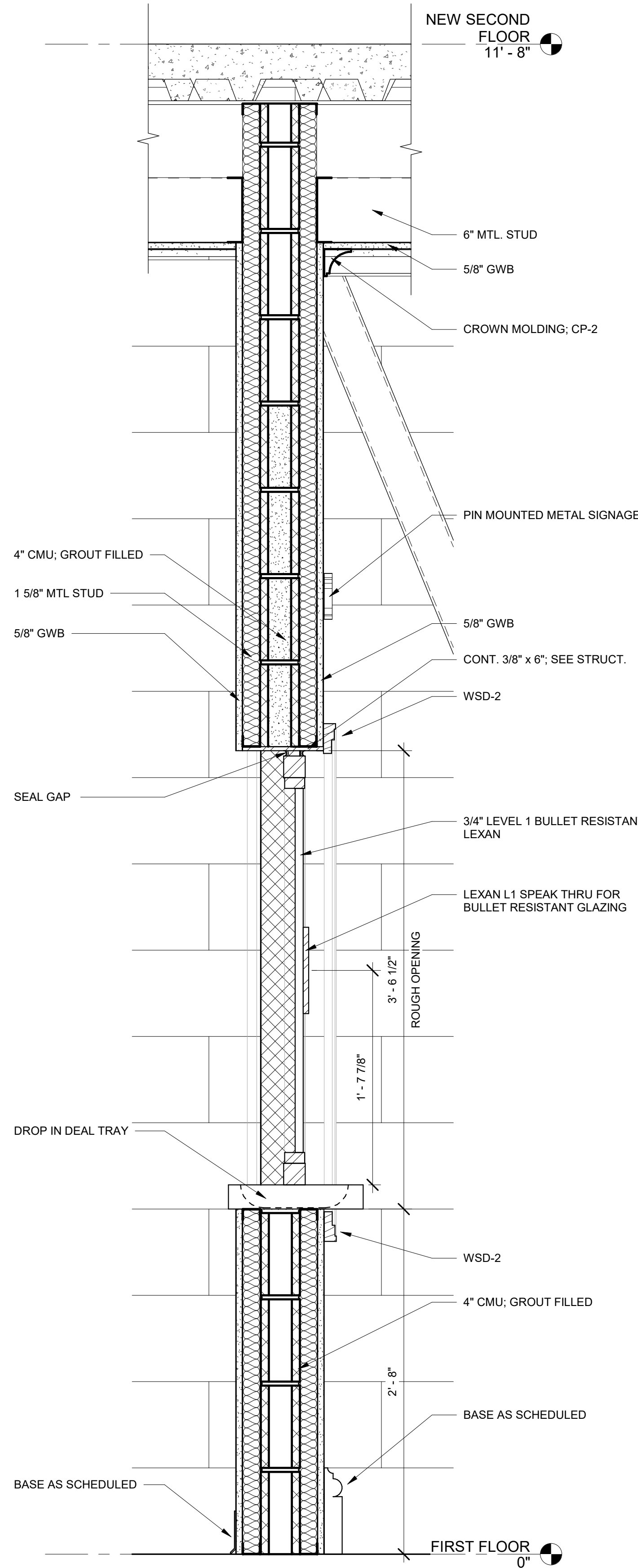
1

2



A3 Detail 12
1 1/2" = 1'-0"

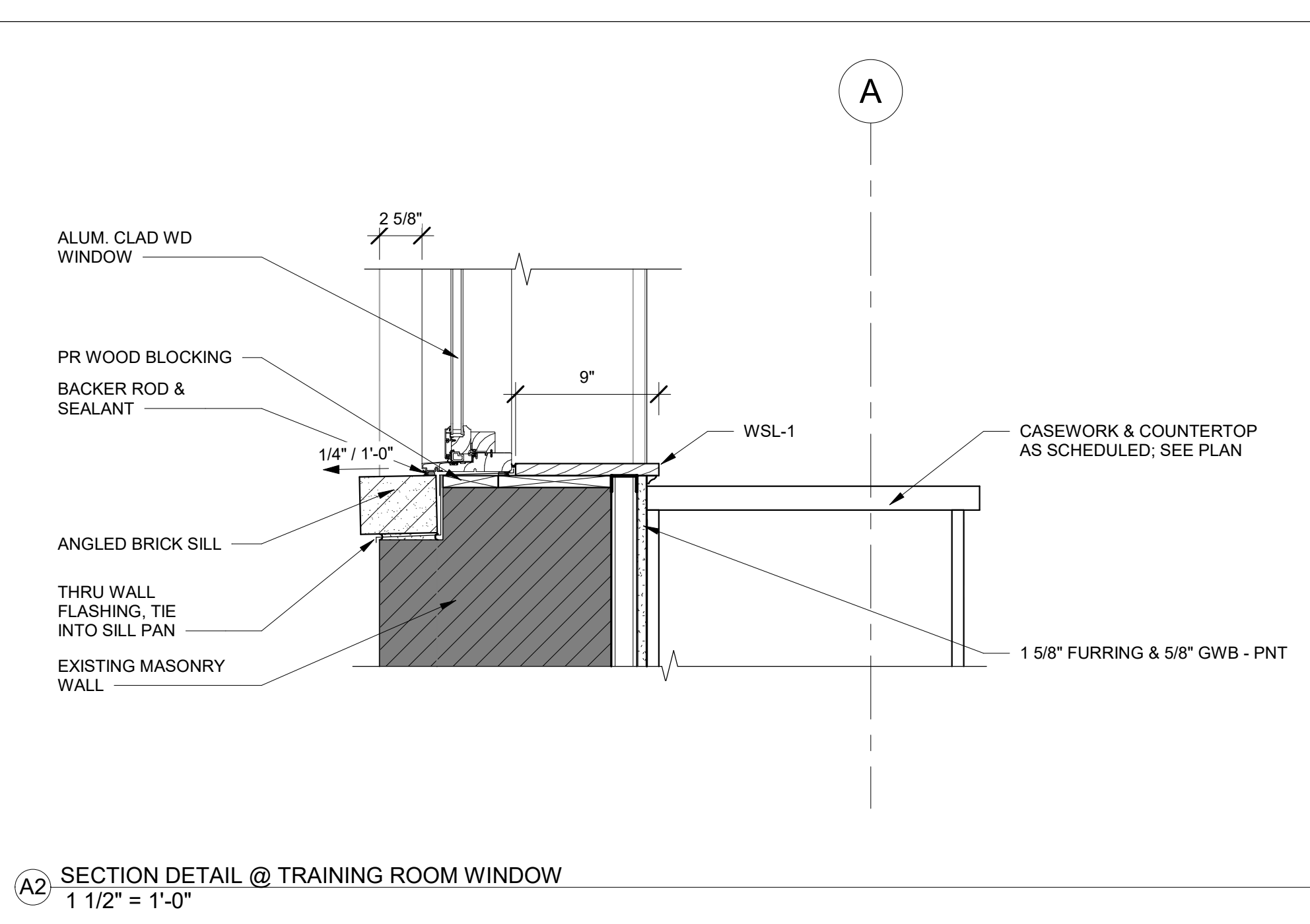
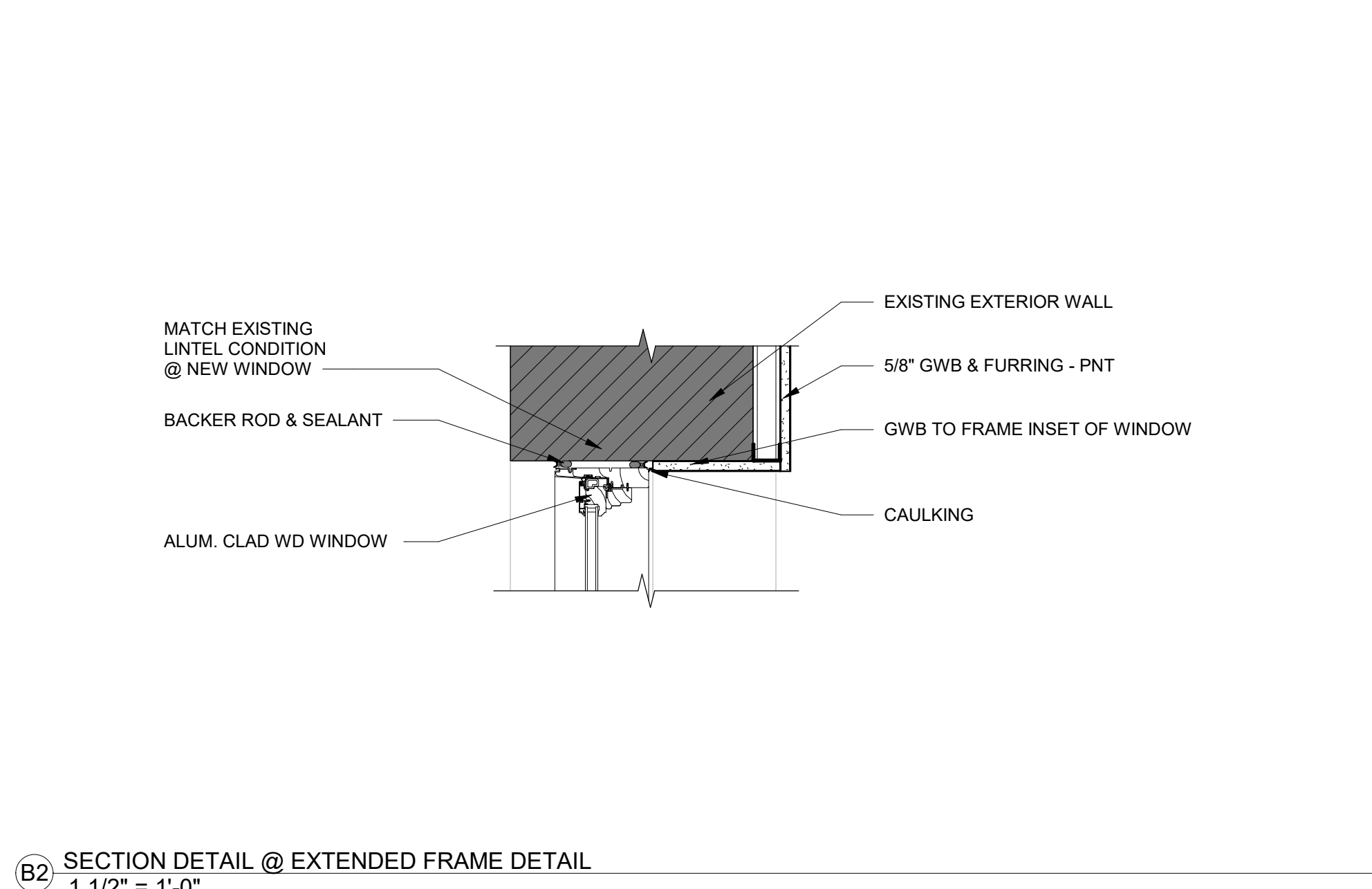
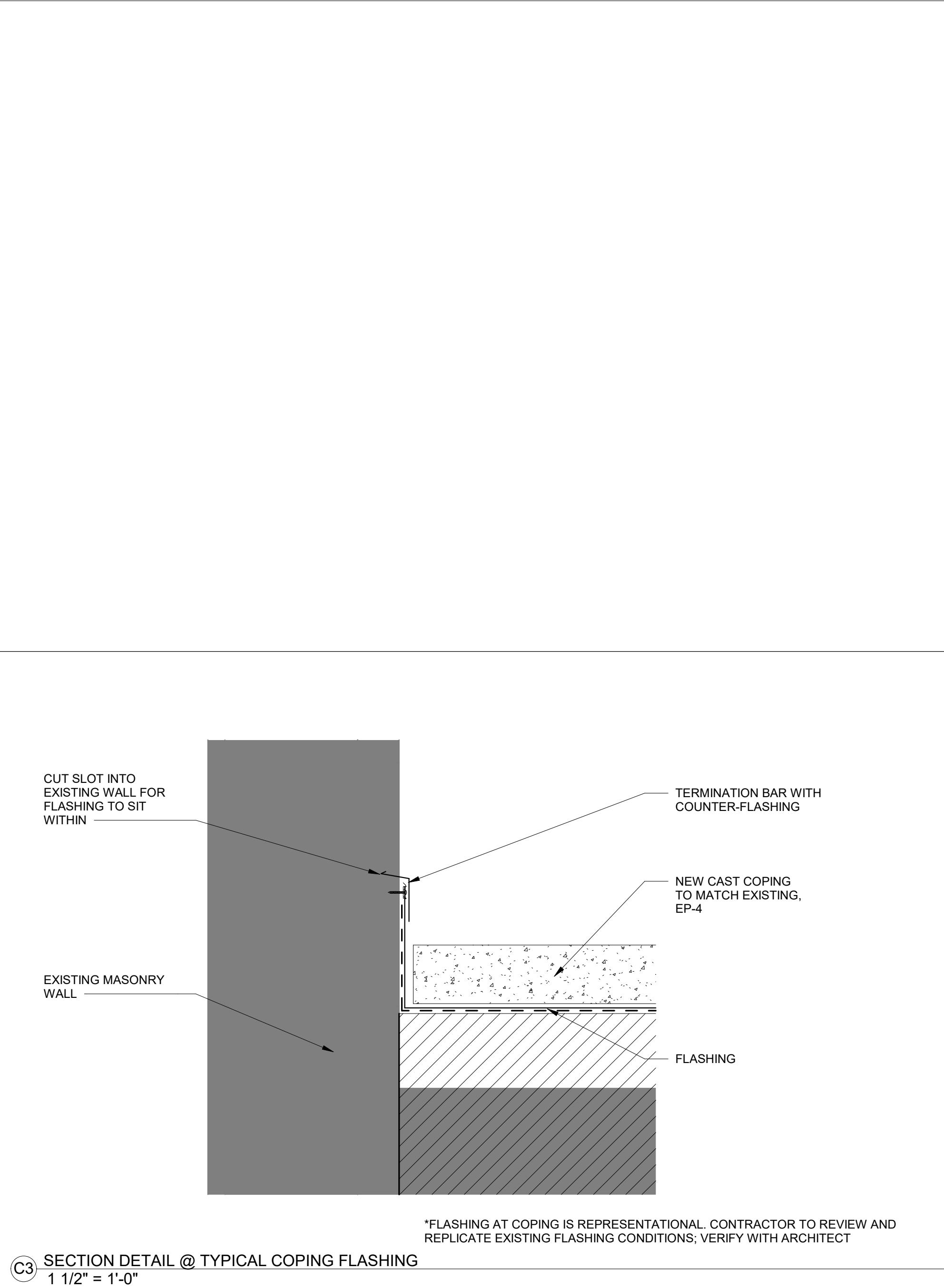
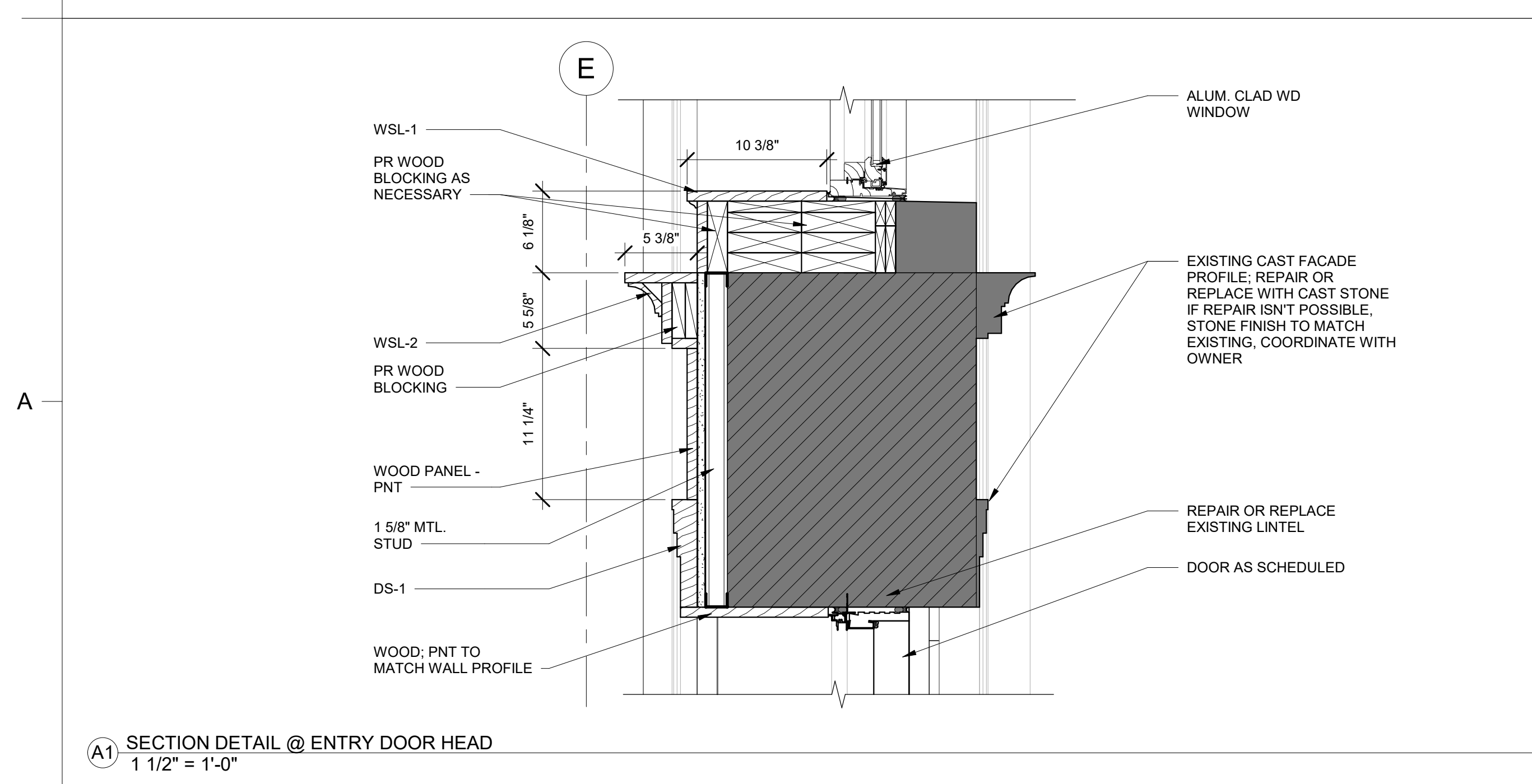
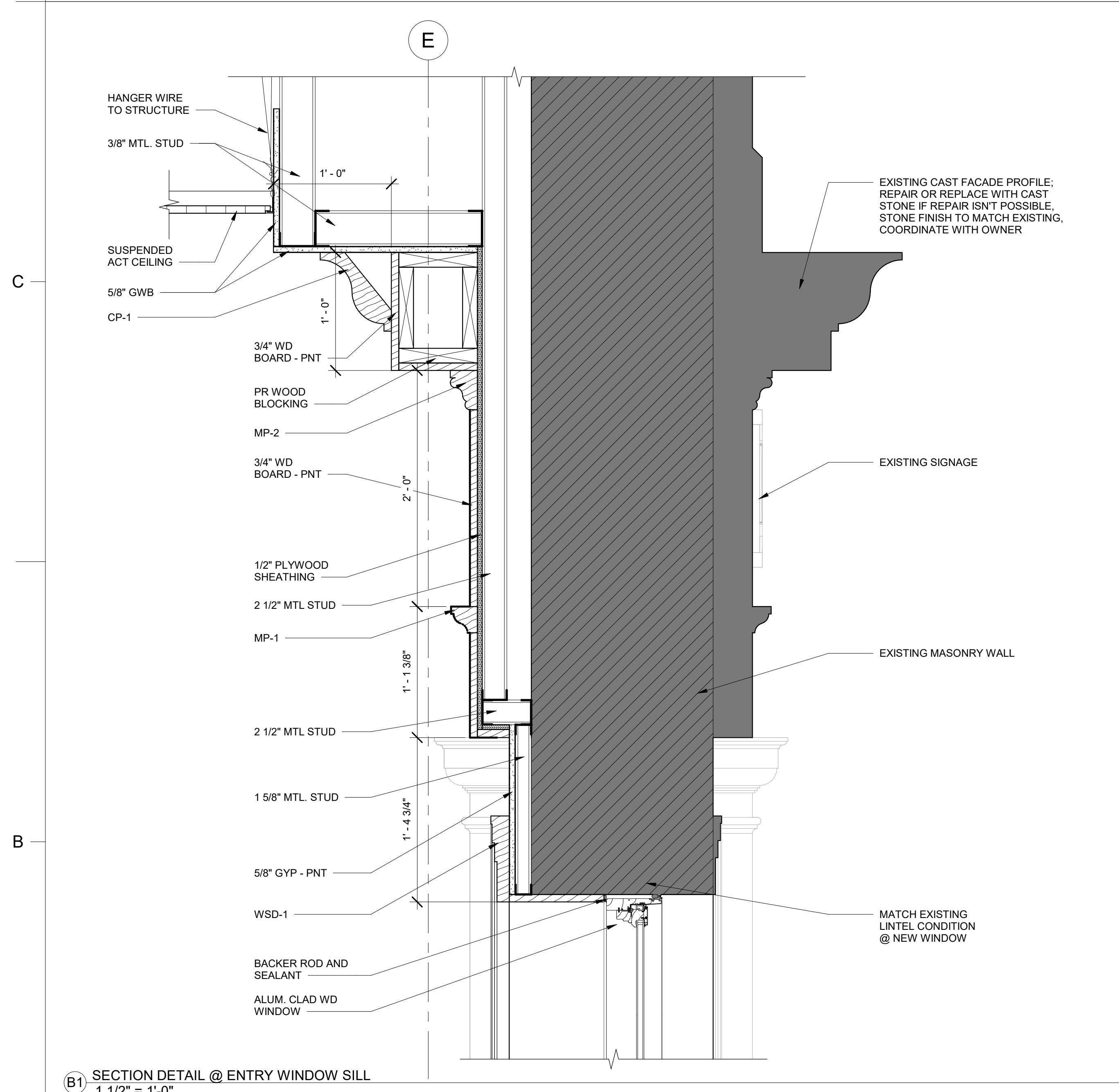
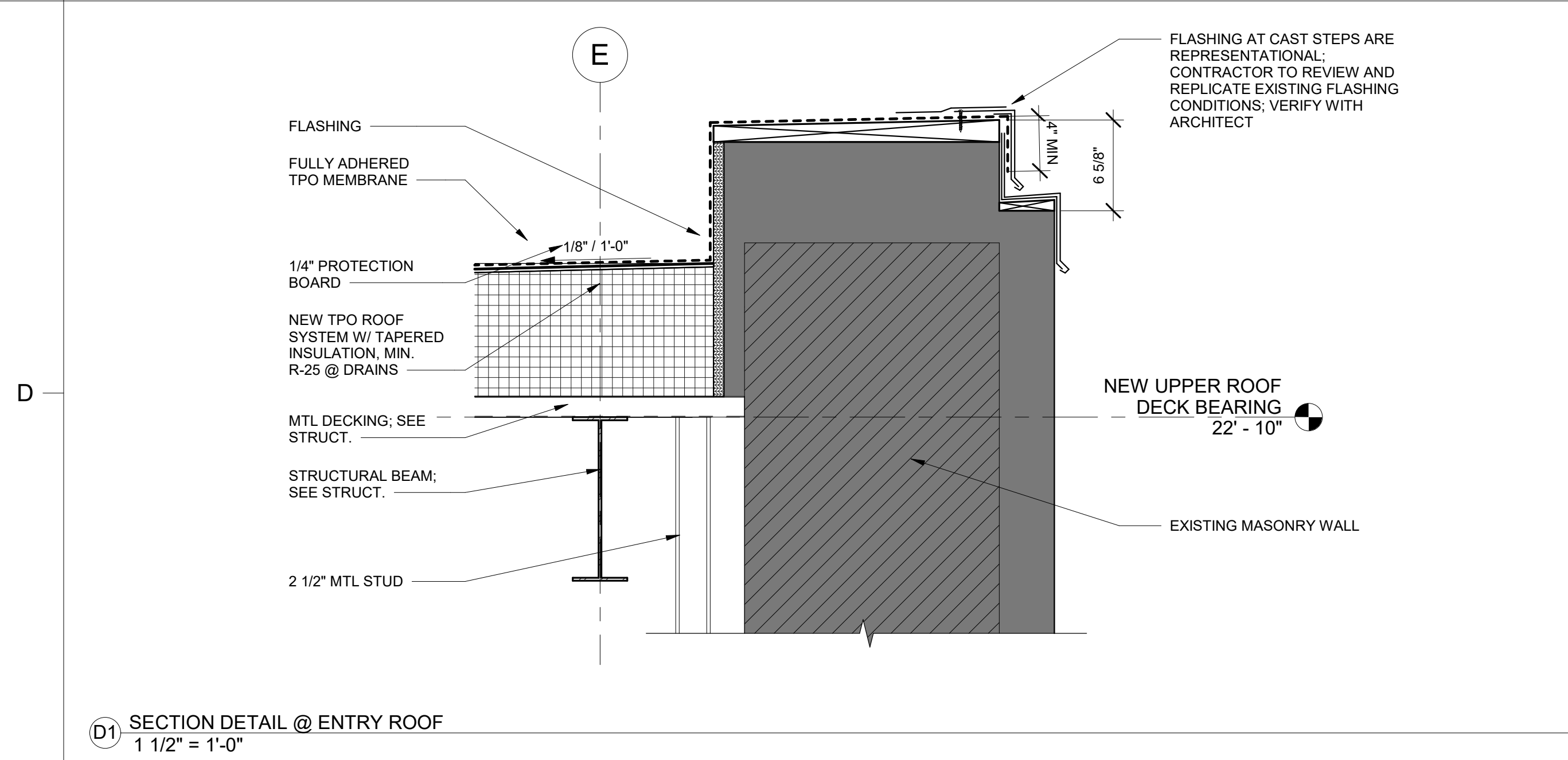
3



A4 SECTION DETAIL @ CLERK PASS THRU WINDOW
1 1/2" = 1'-0"

4

5



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SECTION DETAILS

A7.33

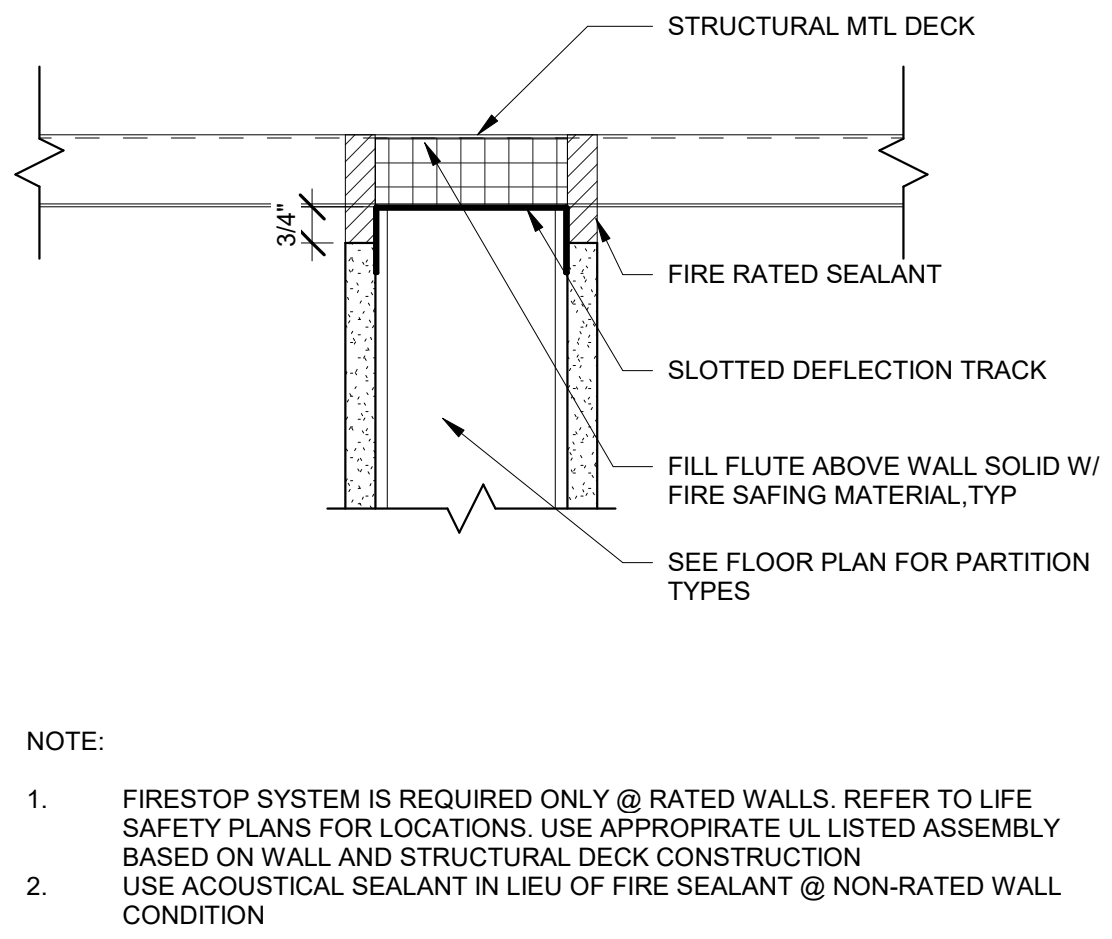
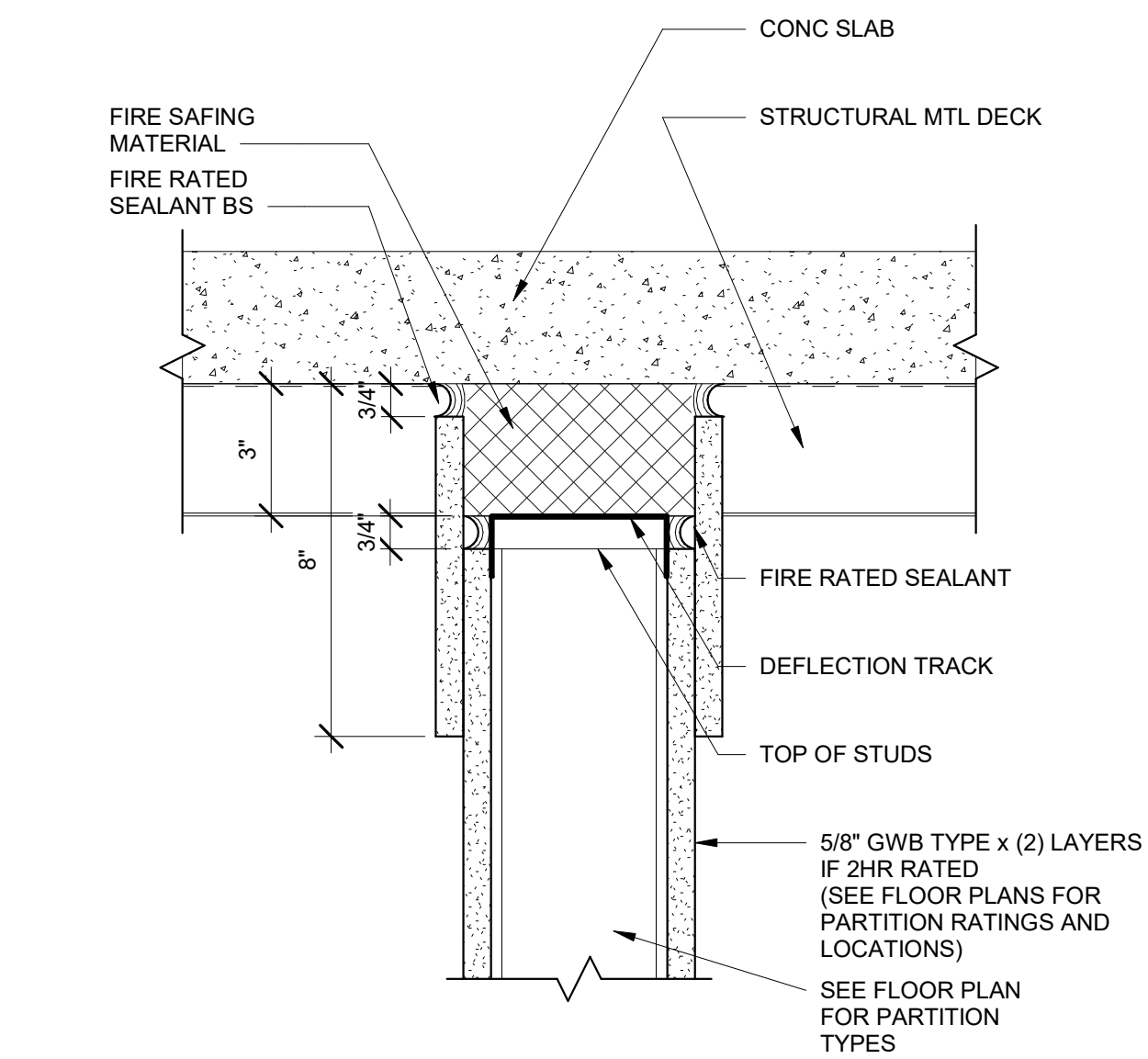
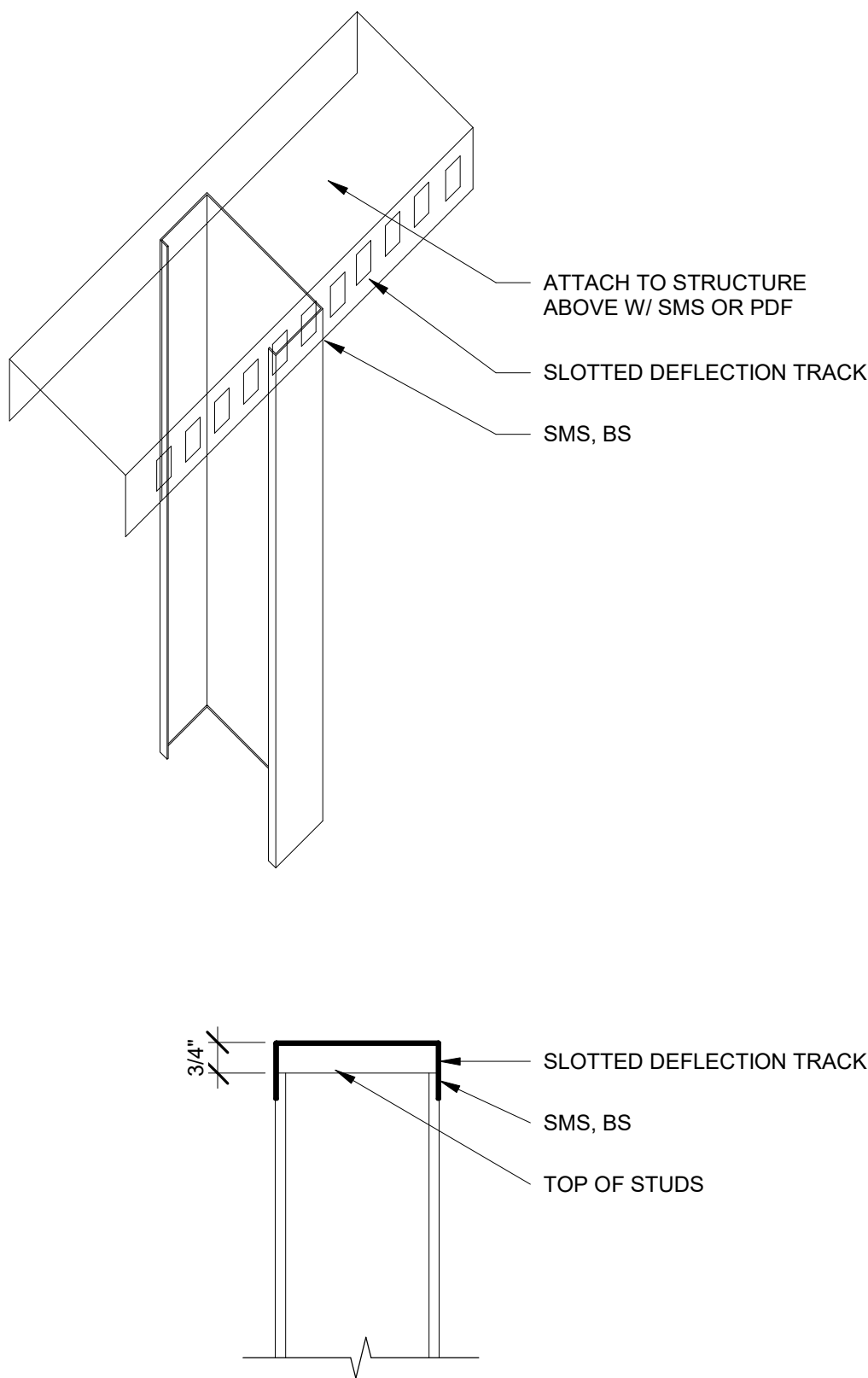
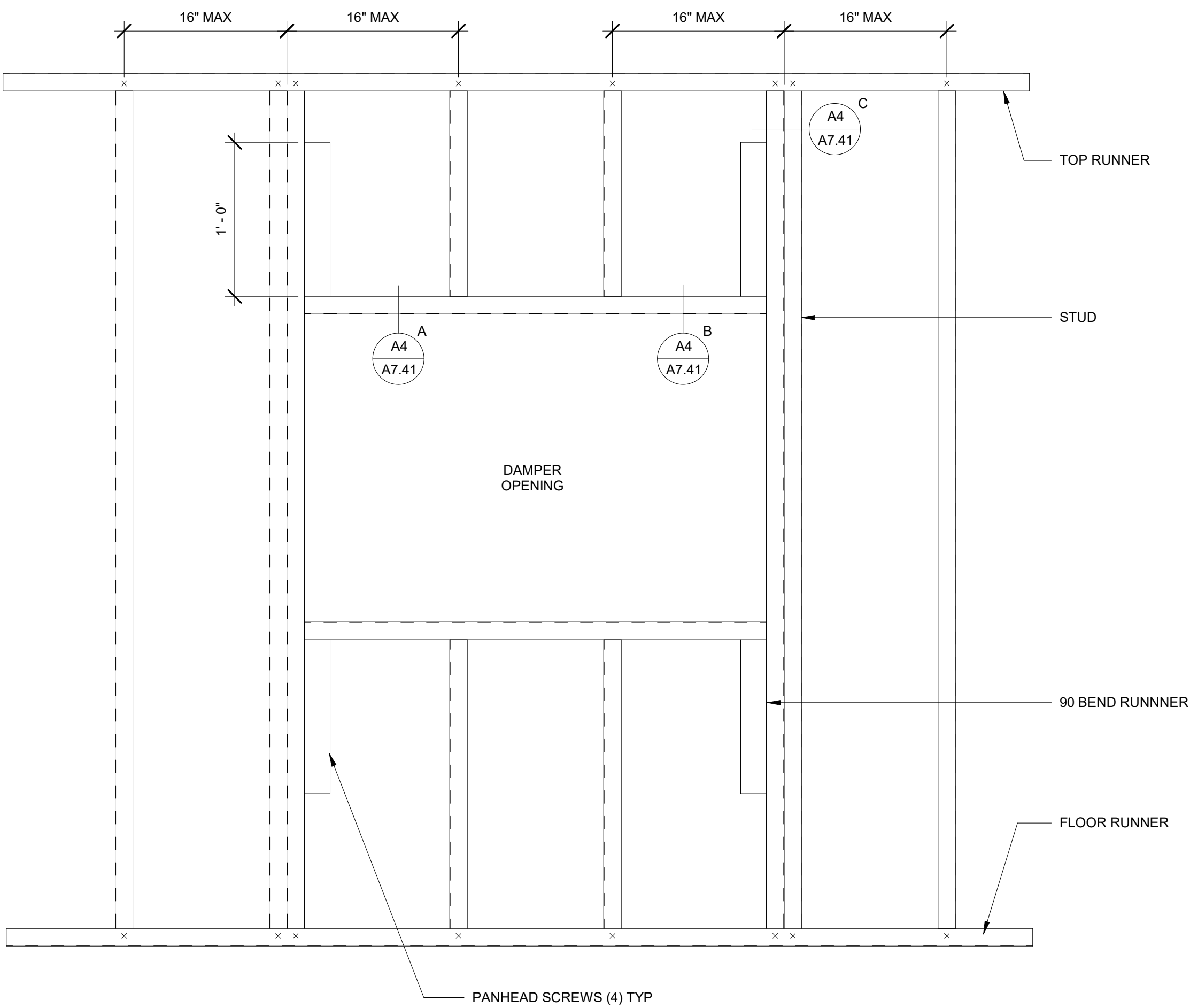
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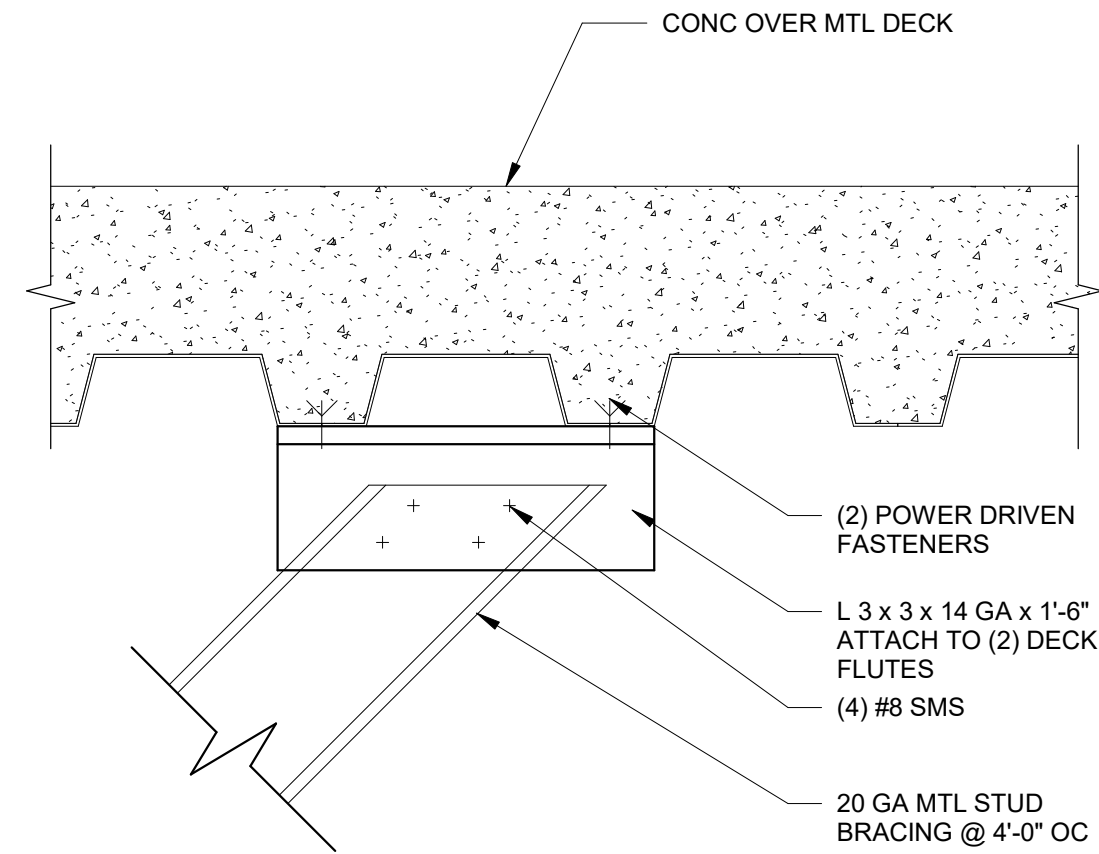
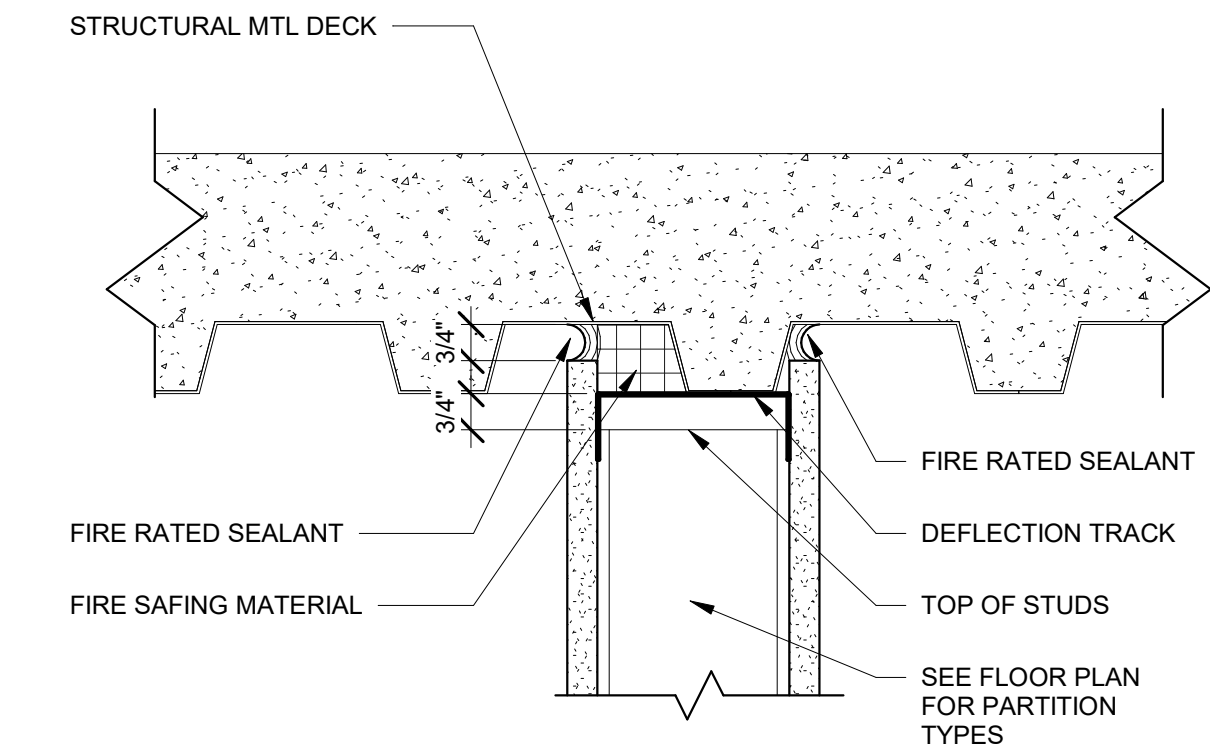
A

NOTES:
1. GWB PANELS SHALL BE SCREWED ON ALL STUDS & RUNNER FLANGES ON 12" MAX CENTERS, SURROUNDING THE OPENING



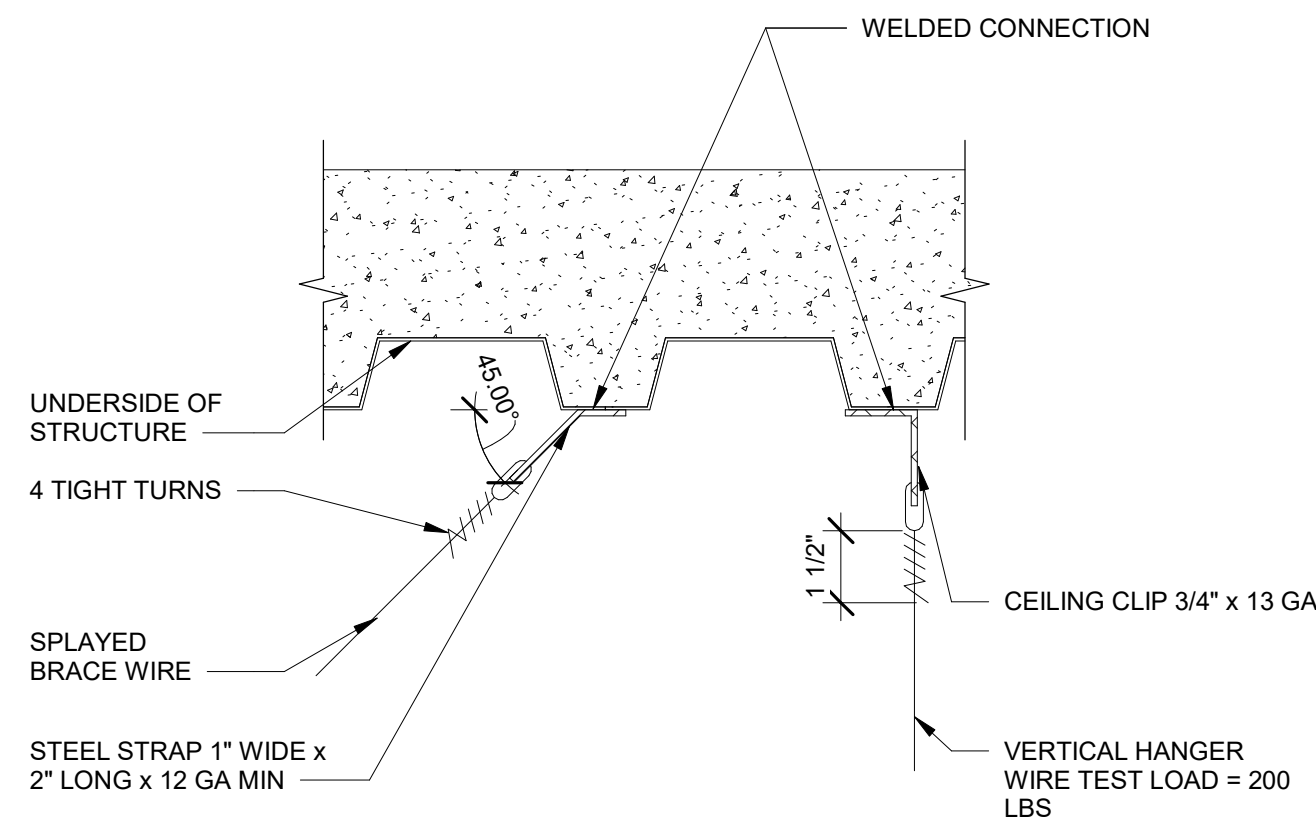
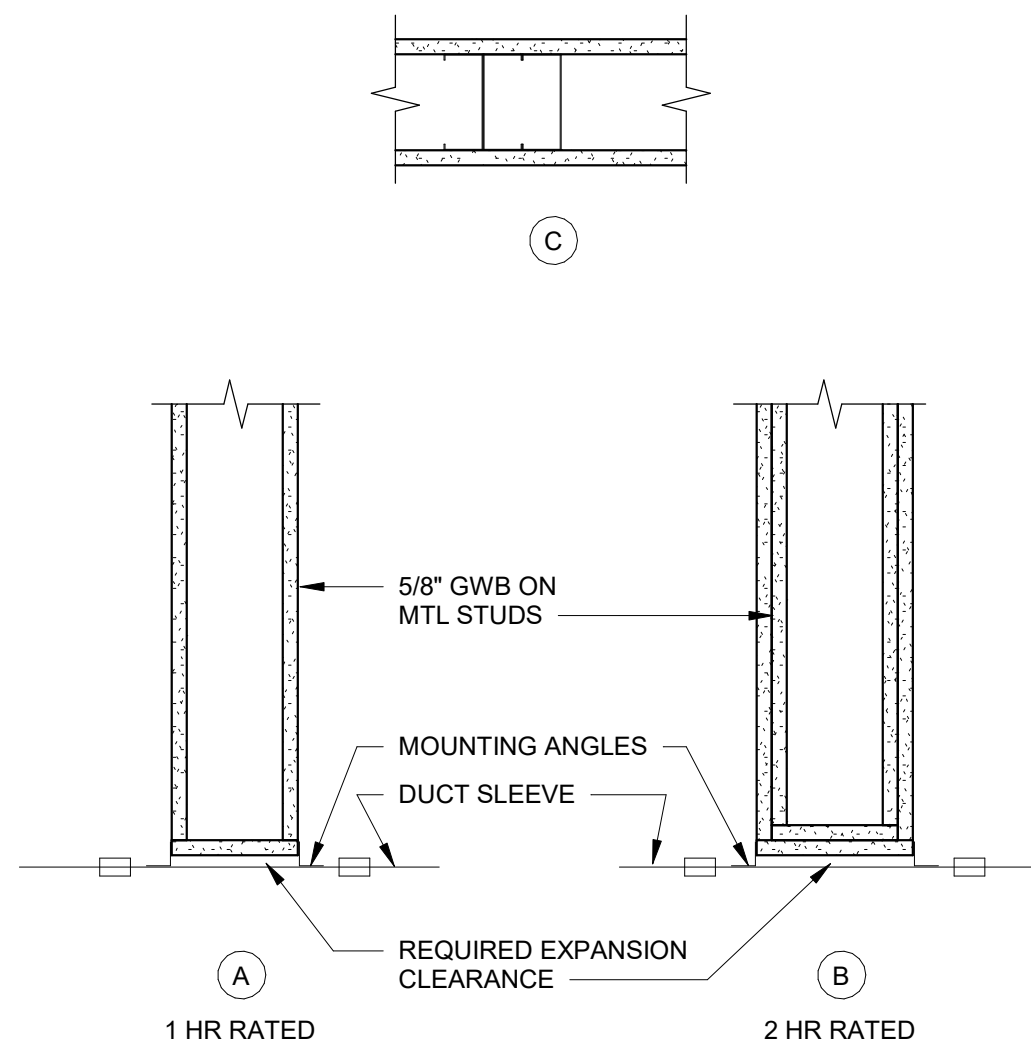
C4 PARTITION - PERPENDICULAR TO RIBS
3" = 1'-0"

C5 PARTITION PERPENDICULAR TO RIBS
3" = 1'-0"



B4 PARTITION - PARALLEL TO RIBS
3" = 1'-0"

B5 BRACE CONNECTION TO METAL DECK
3" = 1'-0"



A4 FIRE DAMPER FRAMING DETAILS
1 1/2" = 1'-0"

A5 HANGER WIRE ANCHORAGE
3" = 1'-0"

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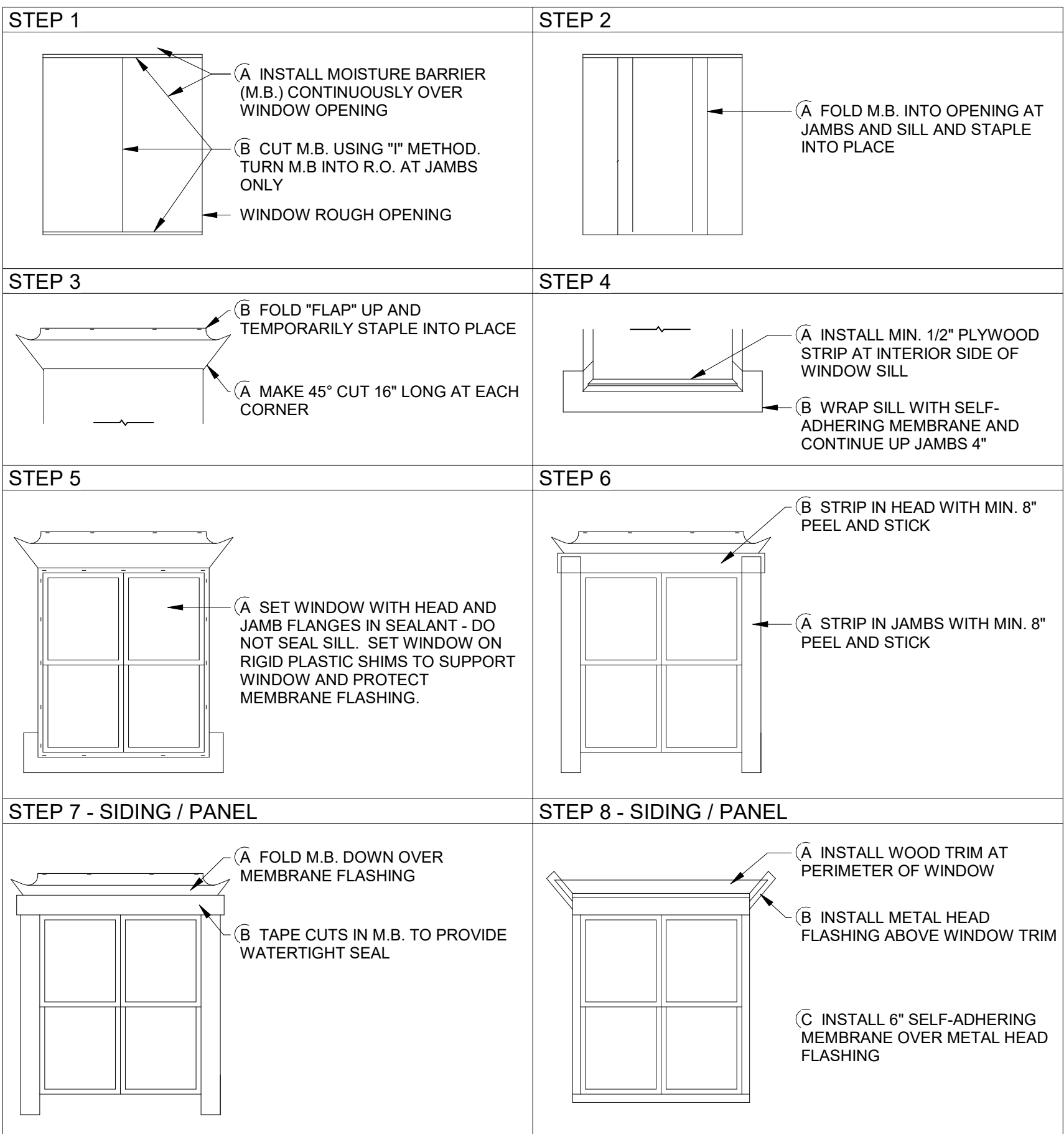
No.	Description	Date

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Date: JULY 7, 2025

STANDARD SECTION DETAILS

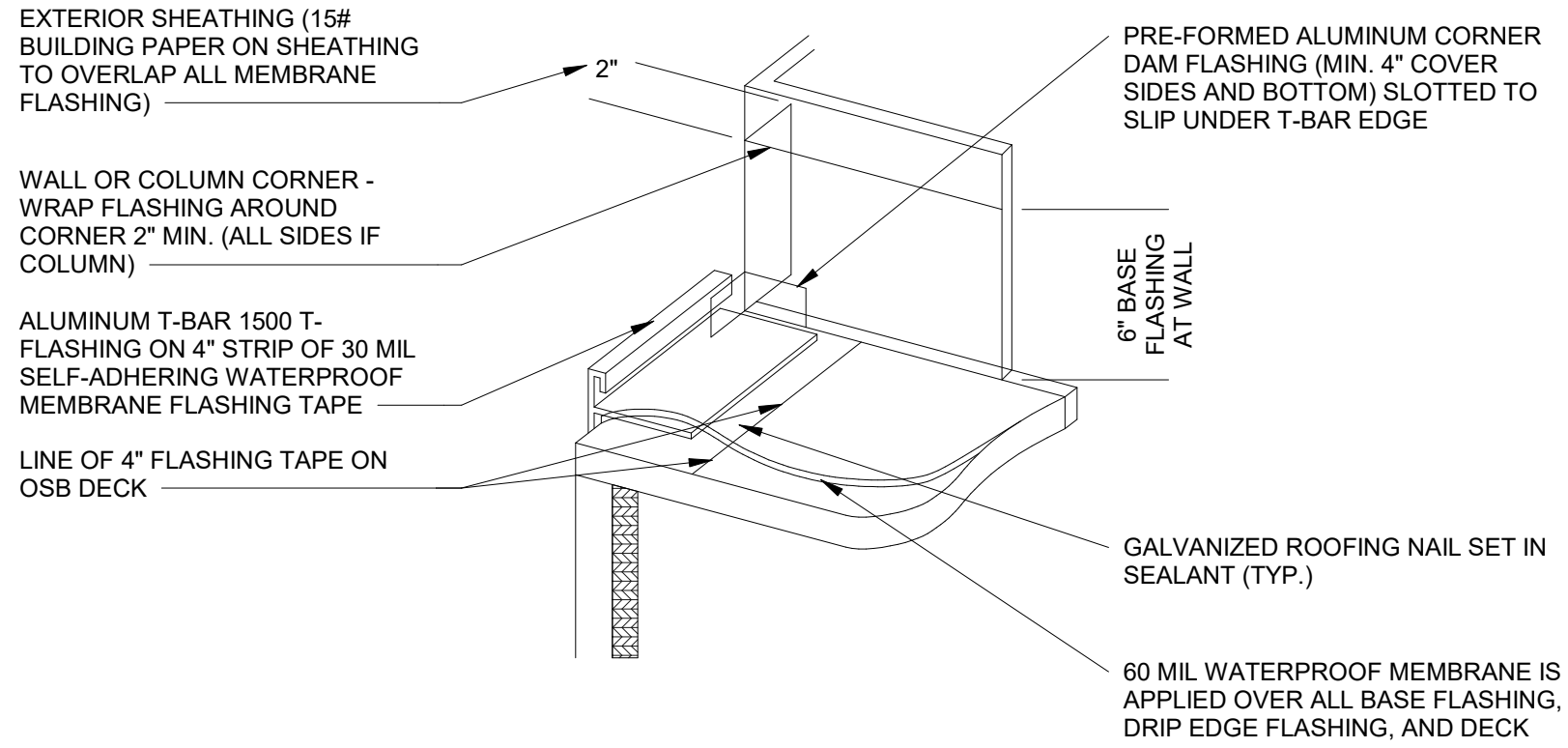
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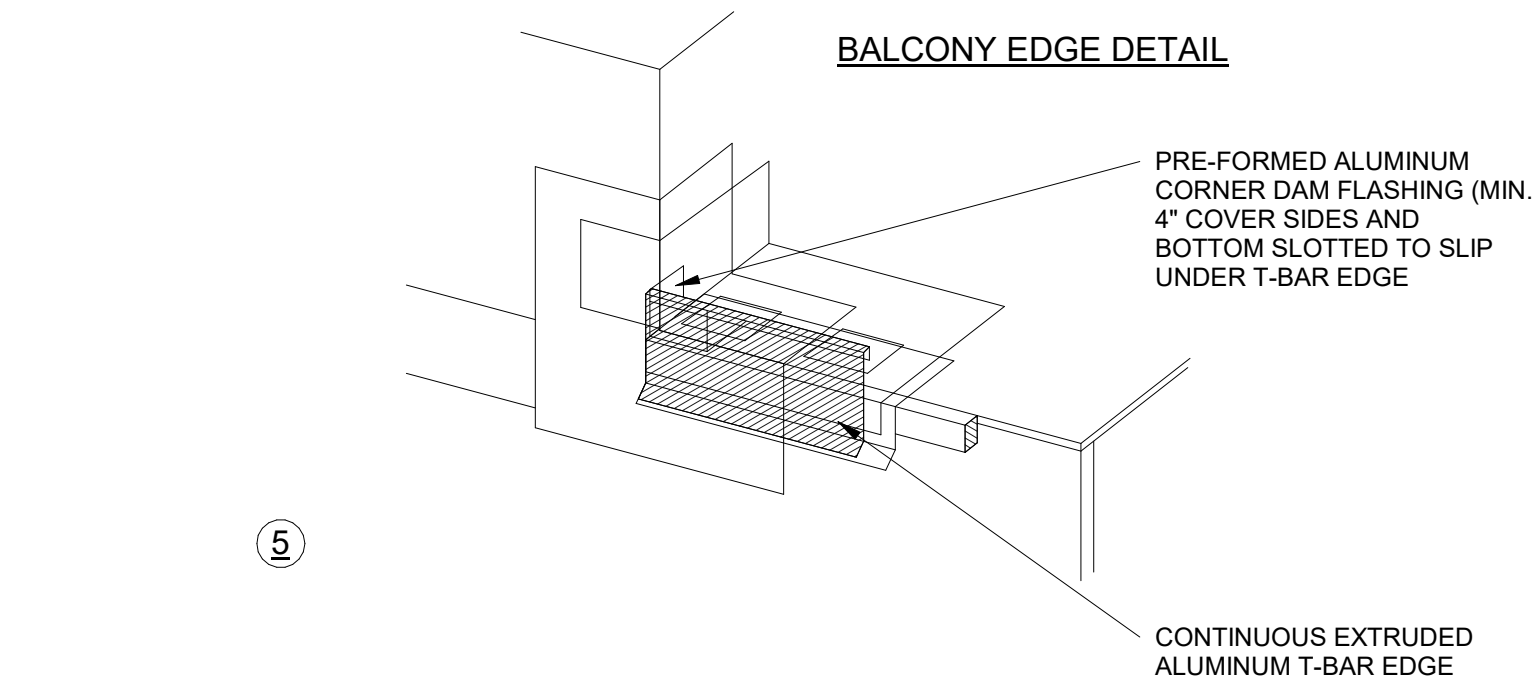


C1 WINDOW FLASHING INSTALLATION SEQUENCE AT MASONRY
1/4" = 1'-0"

B

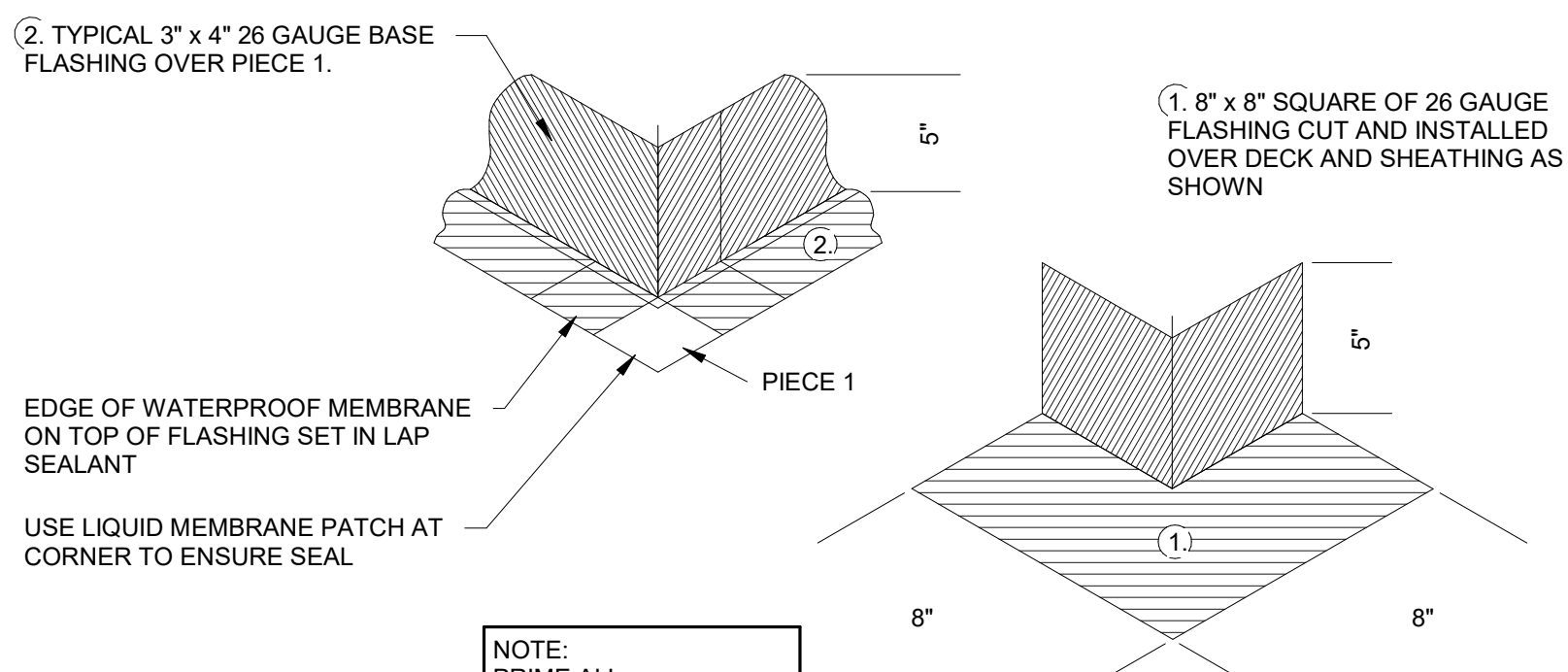
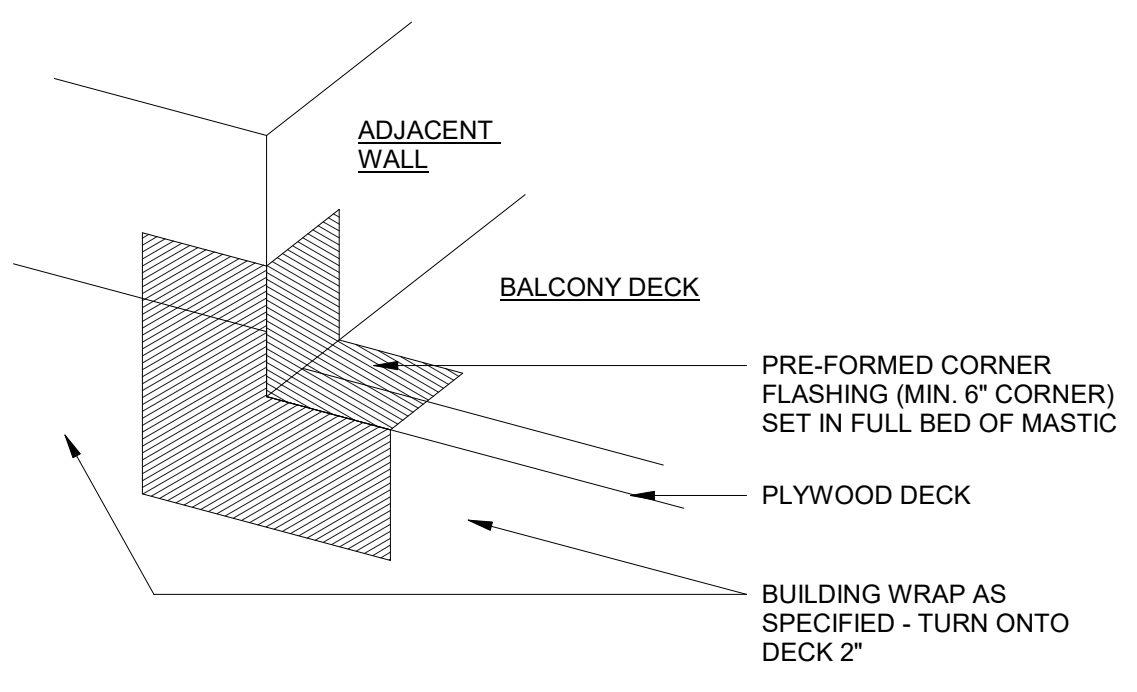
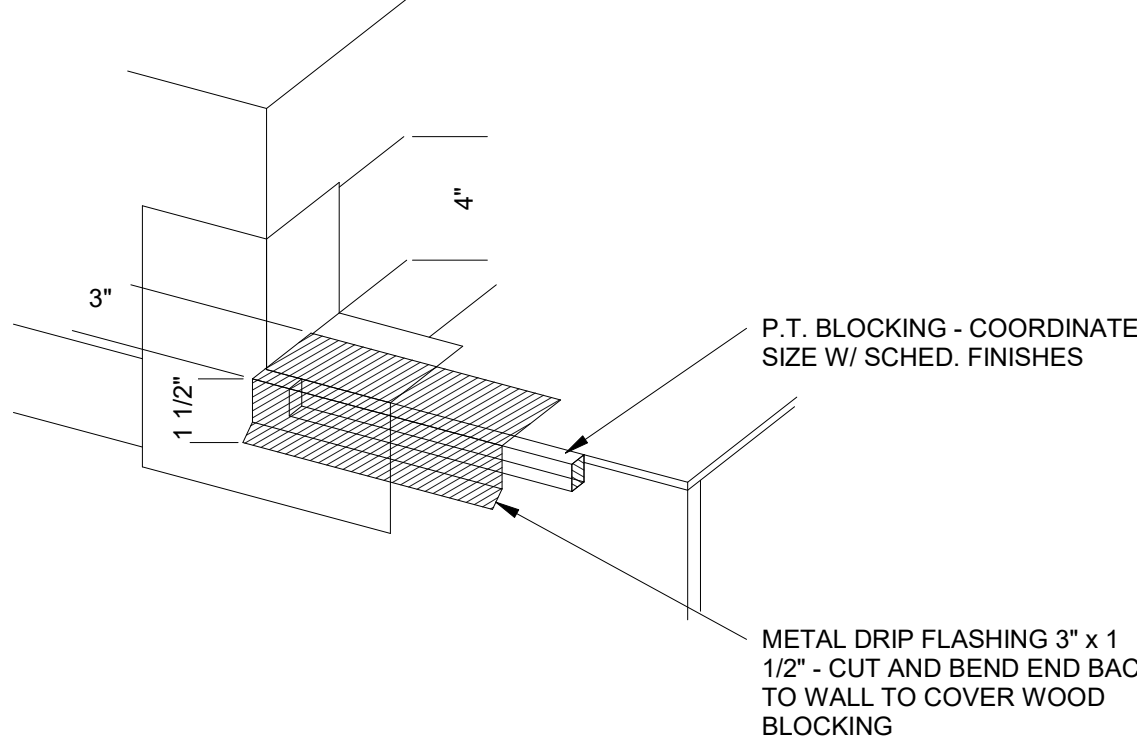
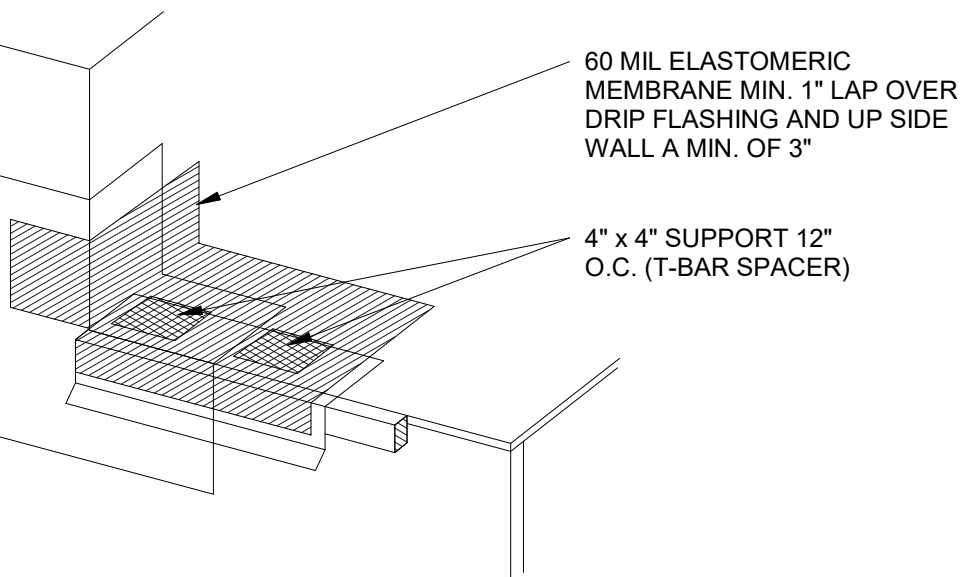
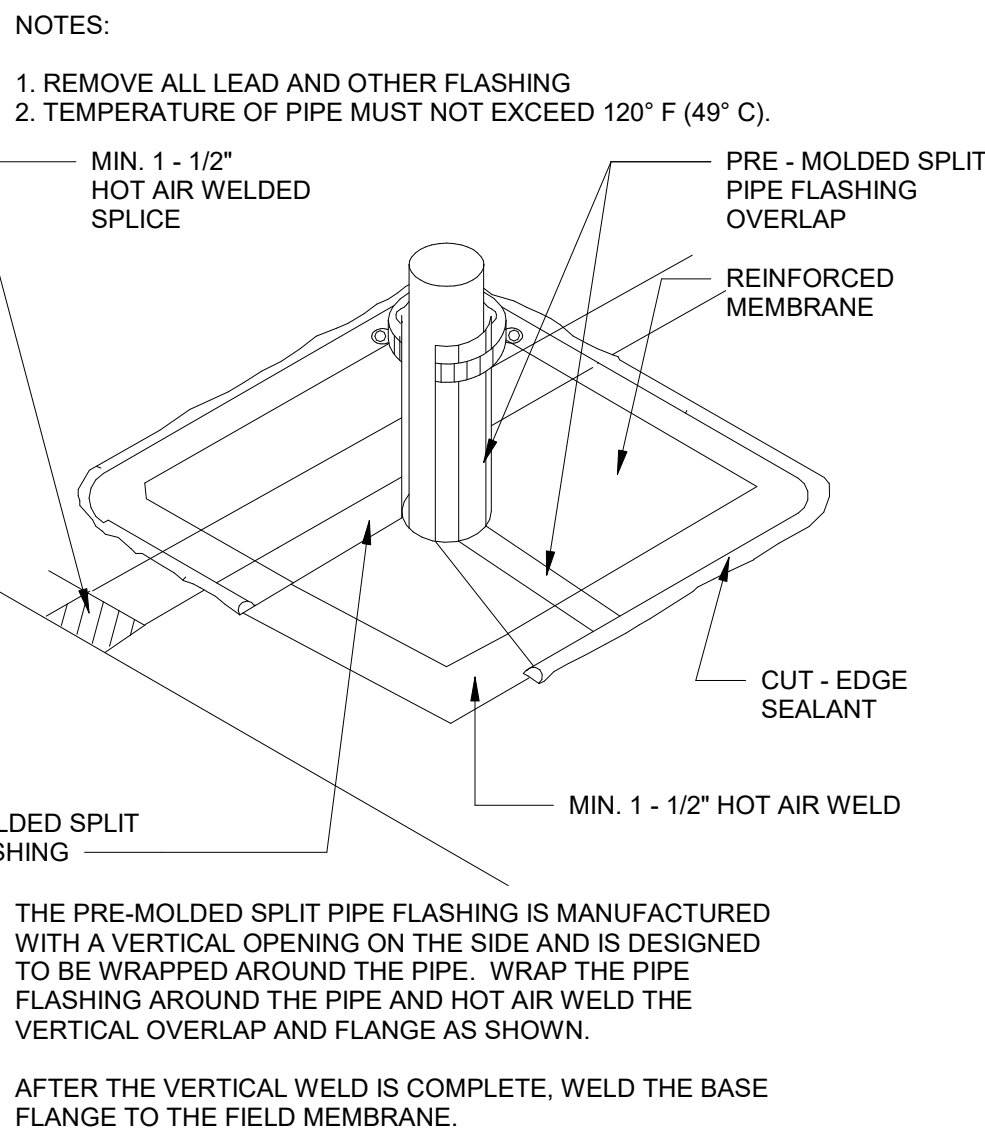
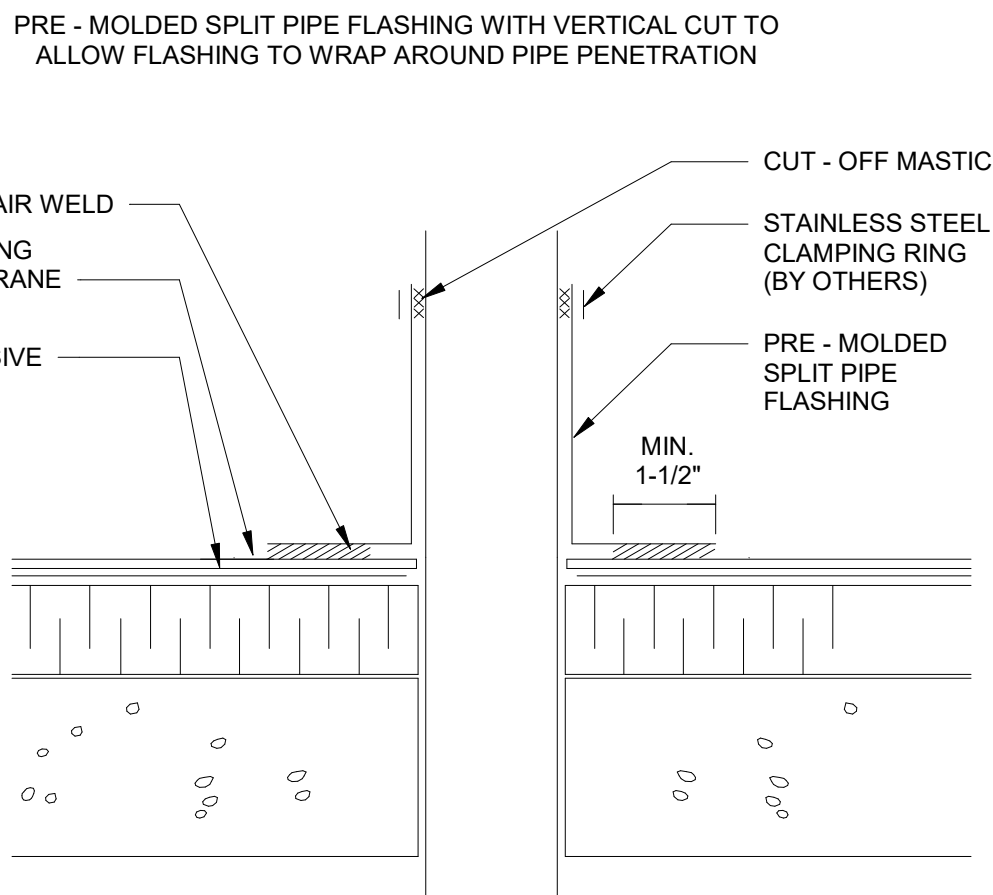


BALCONY EDGE DETAIL

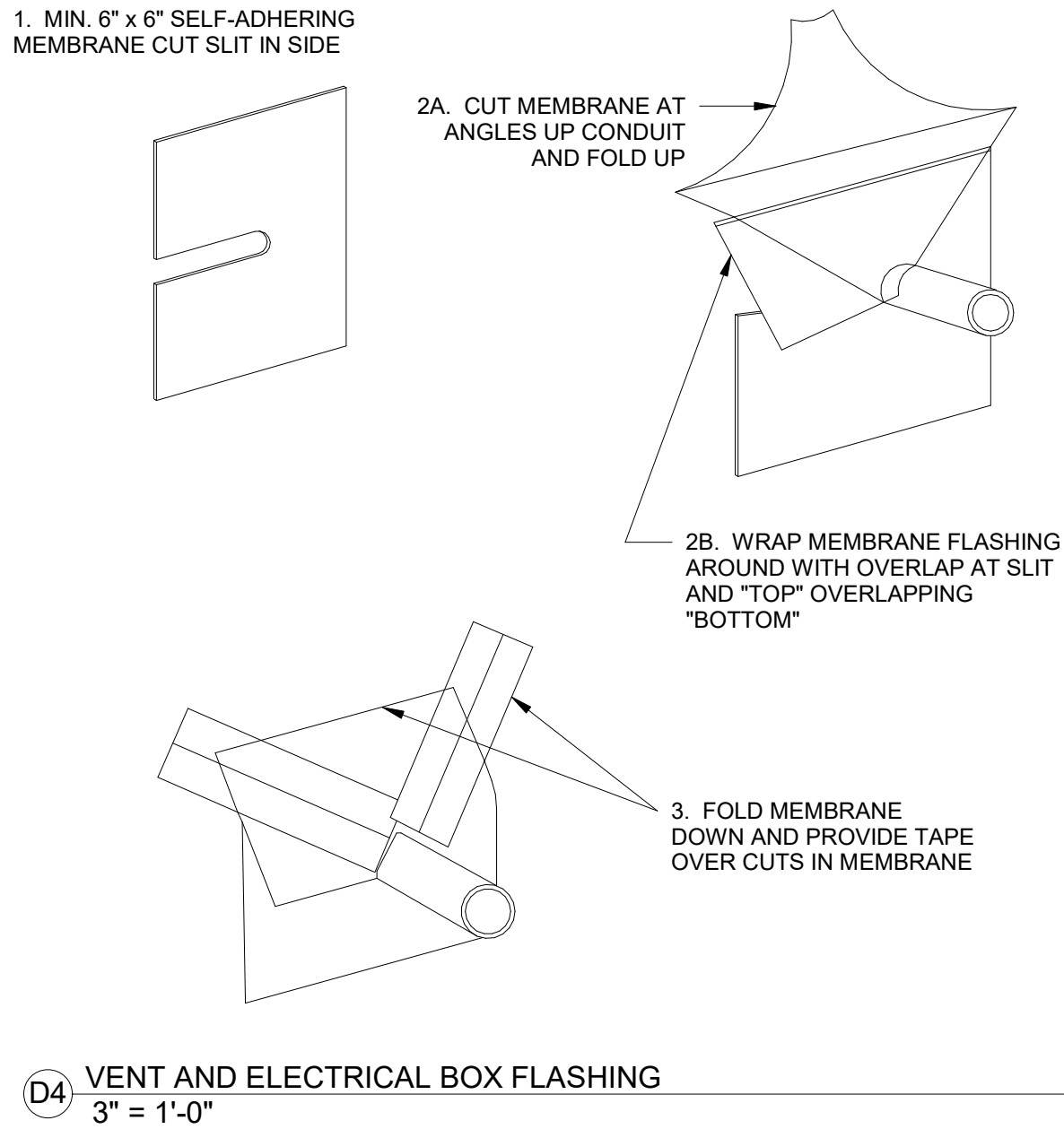
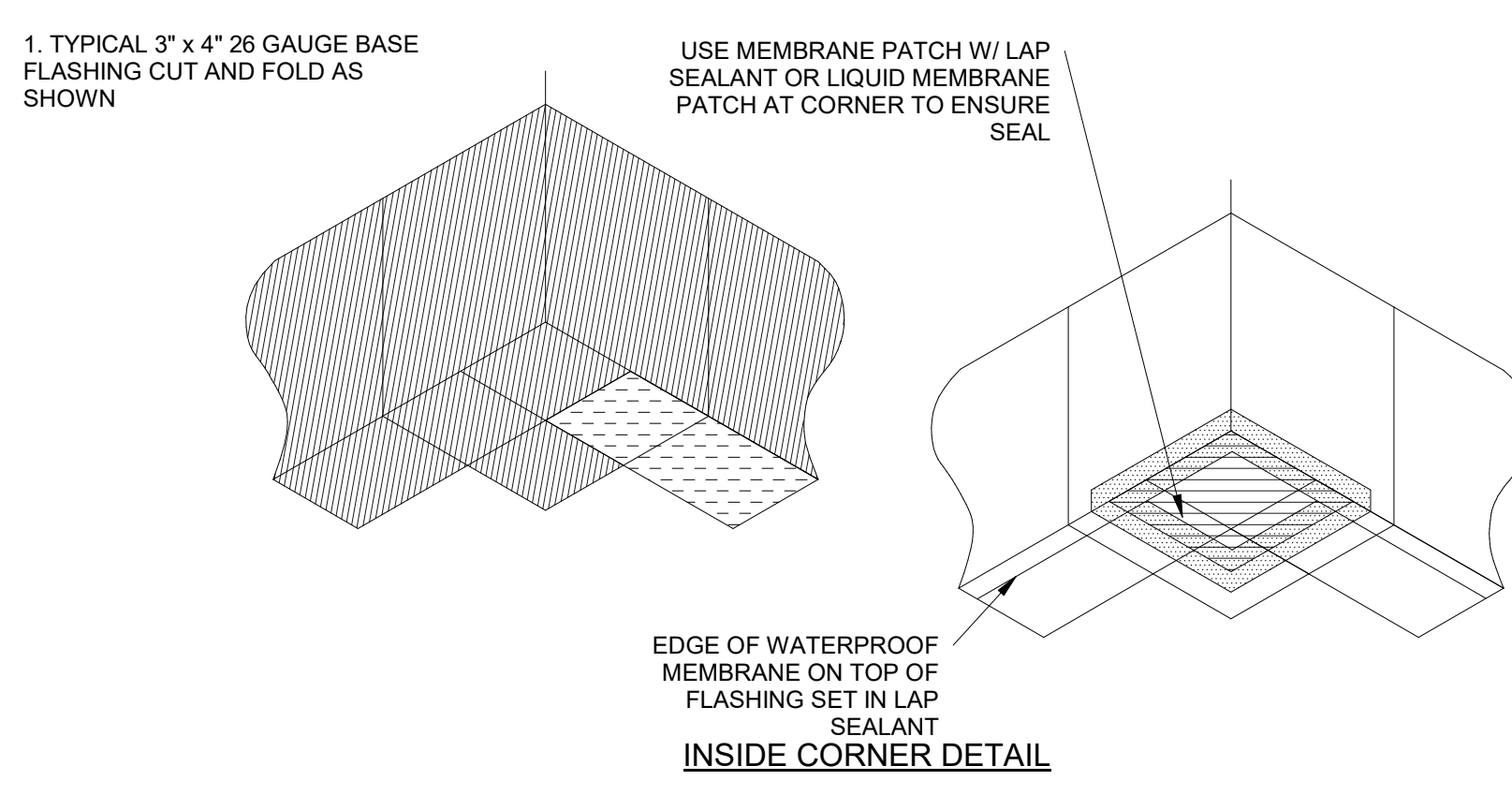


A1 FLASHING INSTALLATION DETAILS
12" = 1'-0"

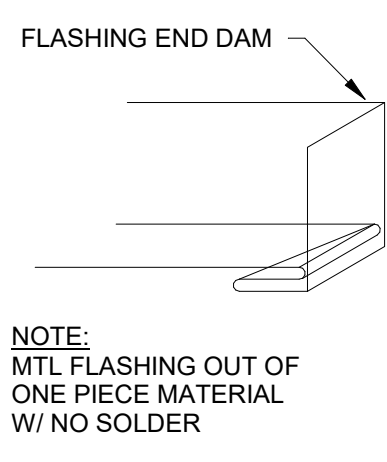
C2 PIPE COLUMN SUPPORT AT MEMBRANE ROOF
1 1/2" = 1'-0"



OUTSIDE CORNER DETAIL

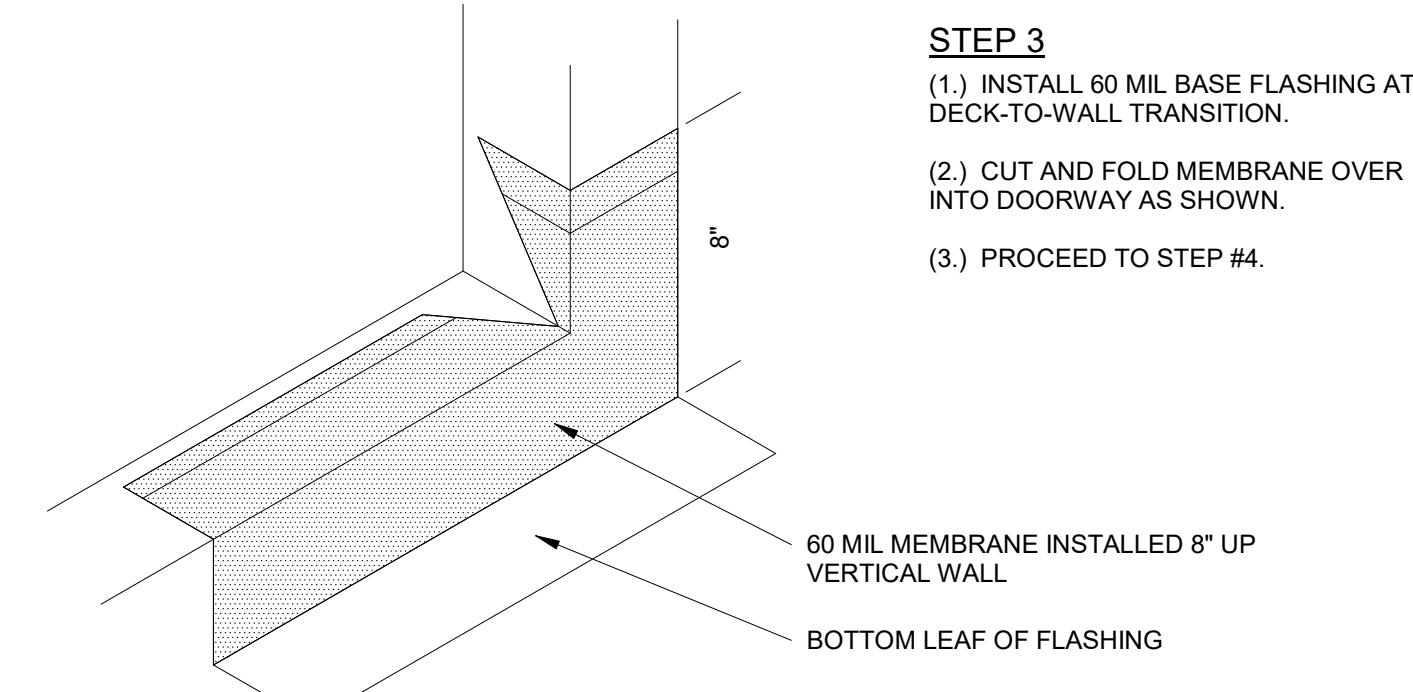


D5 FLASHING END DAM
3" = 1'-0"



STEP 5
(1) INSTALL 26 GAUGE COUNTER FLASHING AT DOOR. TRIM COUNTER FLASHING TO HAVE ONE INCH TABS RUN PAST DOOR EDGE AS SHOWN.

STEP 4
(1) FASTEN CORNERS OF DOOR DETAILS UTILIZING 26 GAUGE OUTSIDE POCKET. POCKET MUST FIT OVER FLASHING AND MEMBRANE SEAMS.
(2) FASTEN WITH 1/4" GALVANIZED NAILS AS SHOWN.
(3) PROCEED TO STEP #5



STEP 2
(1) INSTALL 60 MIL WATERPROOFING AT ENTIRE BALCONY TERMINATING 3" ONTO BASE OF WALL FLASHING.

STEP 1
(1) INSTALL 3" x 4" BASE FLASHING AT PERIMETER OF BALCONY WITH NO SEAMS AT DOOR.
(2) CUT BASE AT DOOR OPENING AS NEEDED.
(3) PROCEED TO STEP #2.

A4 DOOR FLASHING DETAILS
12" = 1'-0"

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STANDARD FLASHING DETAILS

A7.51

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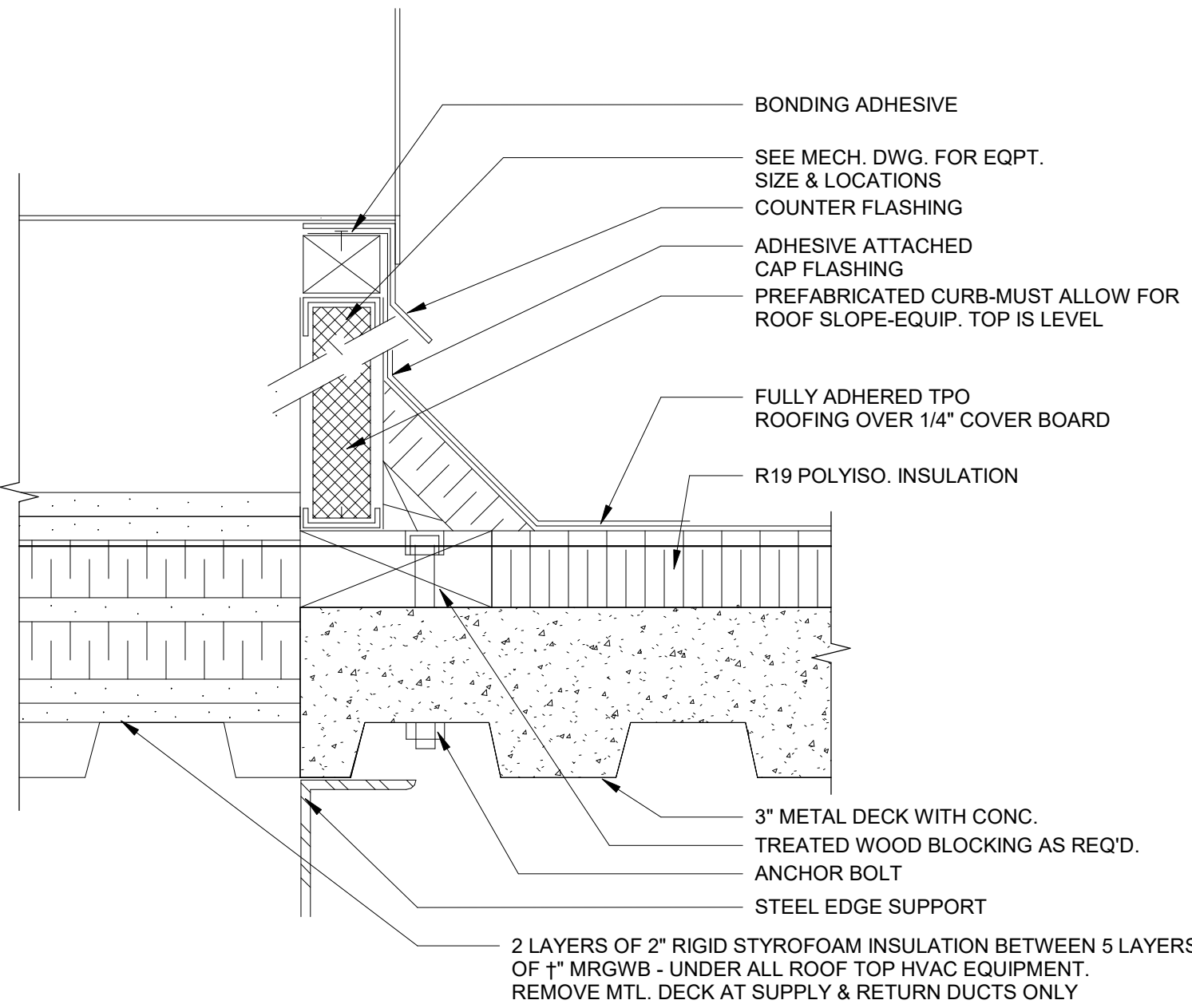
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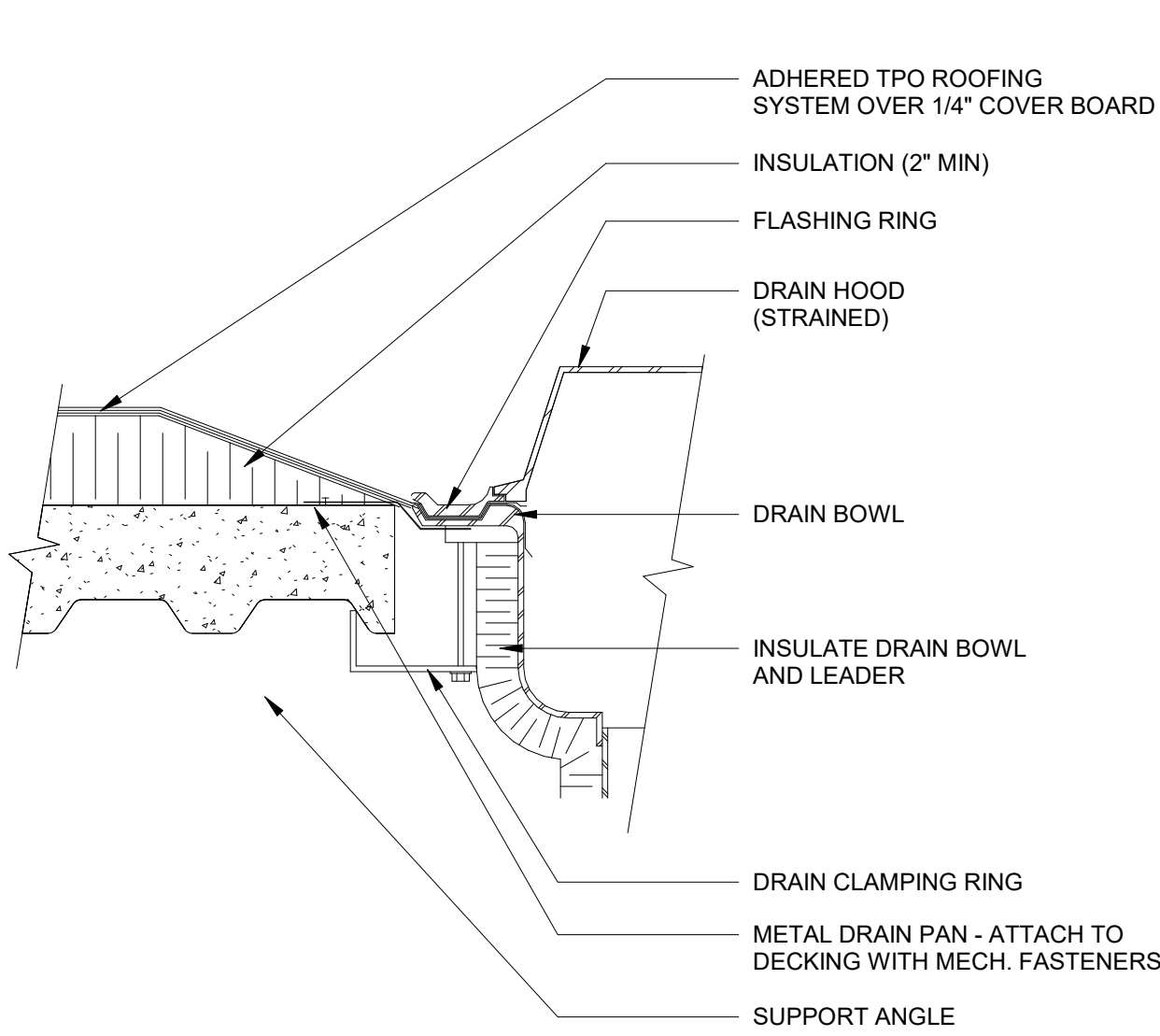
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STANDARD ROOF DETAILS

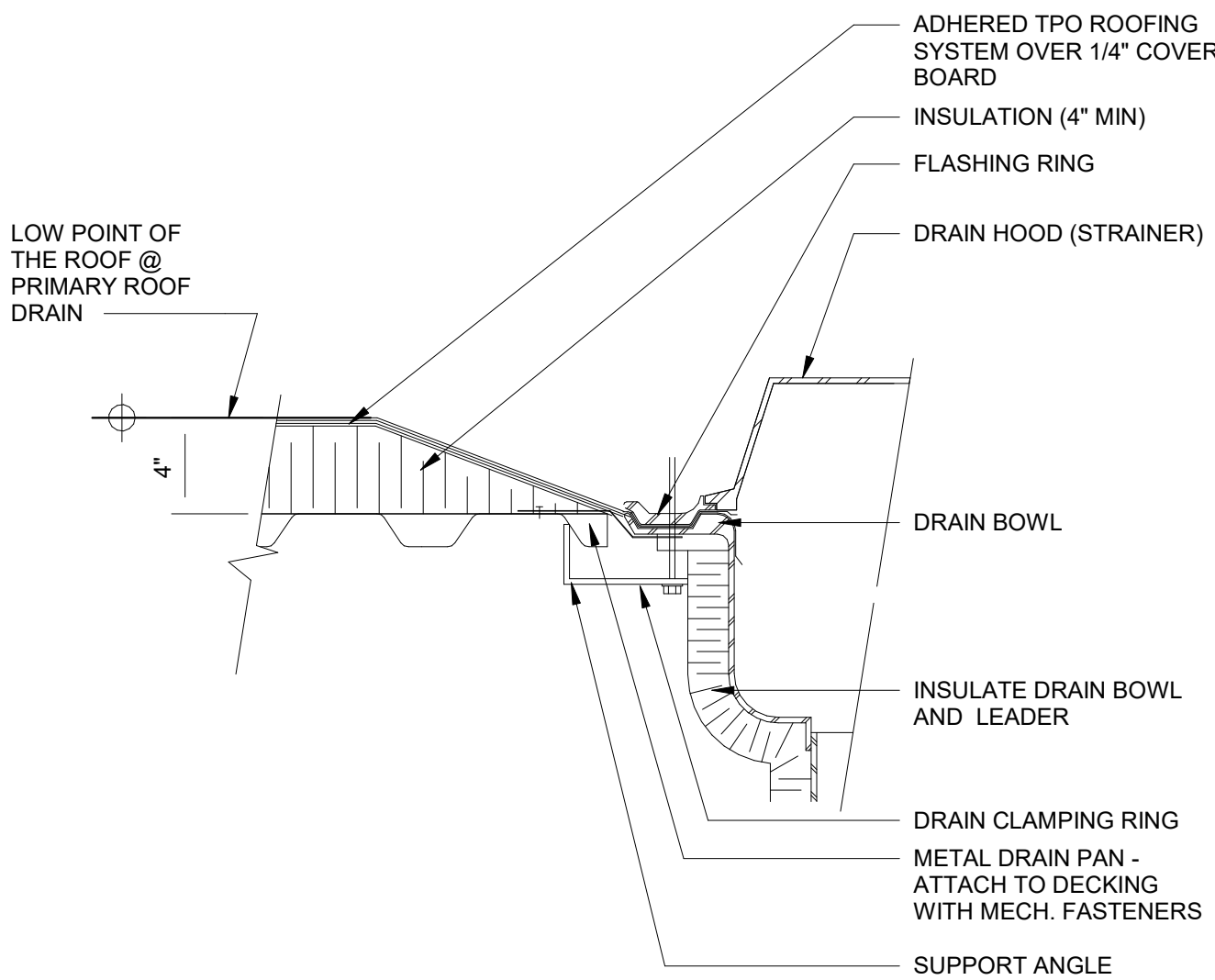
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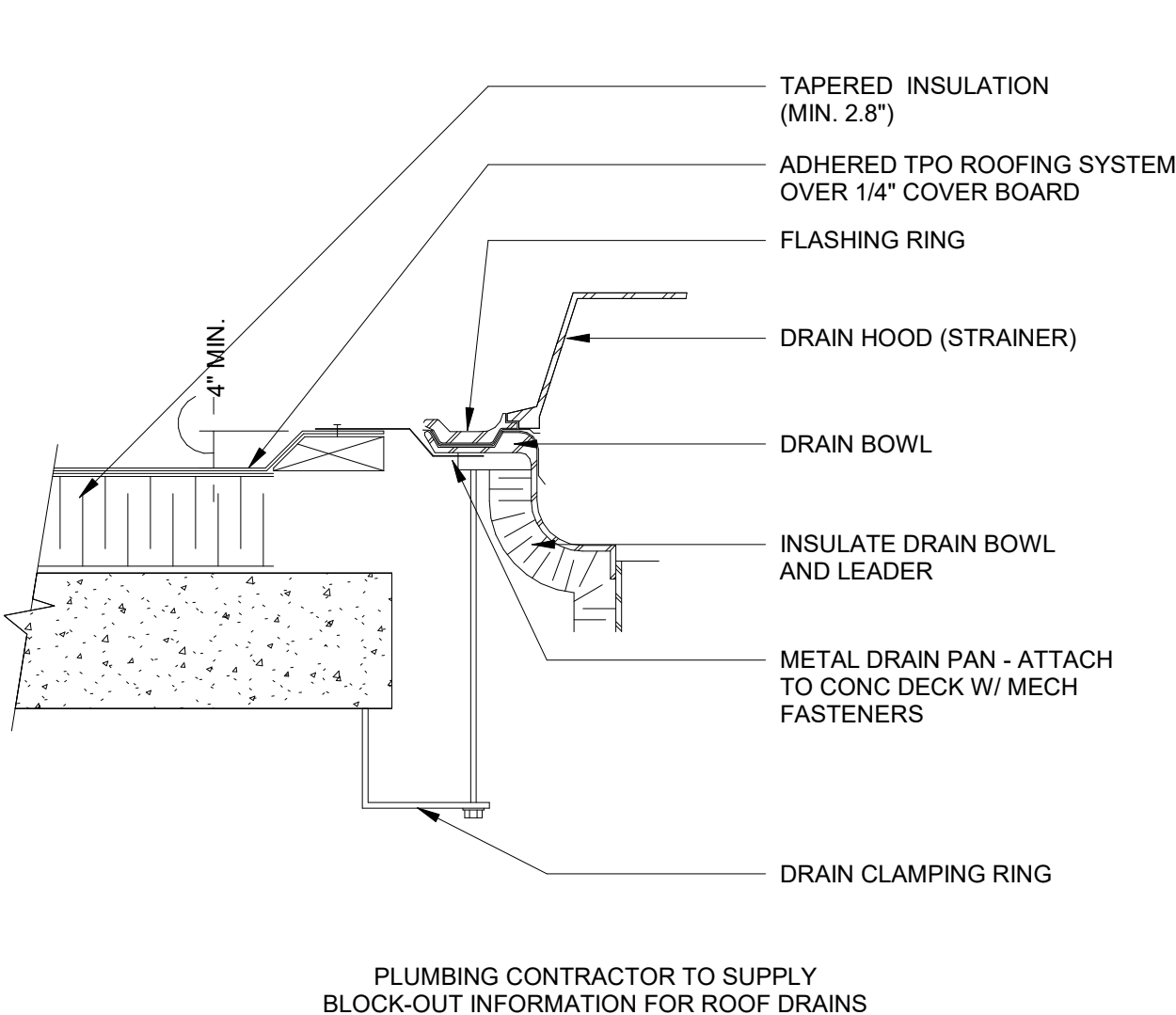
B4 DETAIL AT EQUIPMENT CURB W/ CONCRETE
1 1/2" = 1'-0"



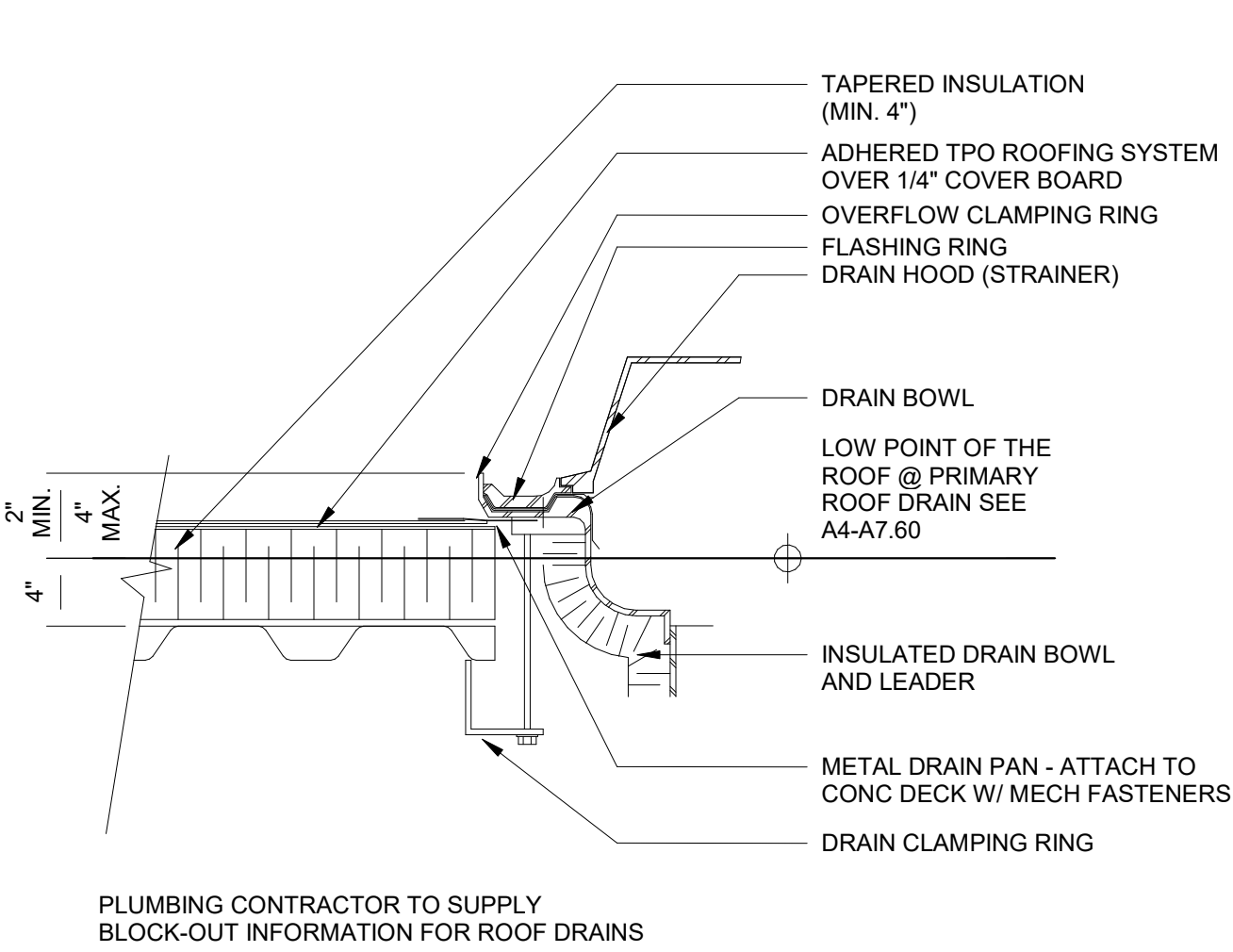
A2 DETAIL AT ROOF DRAIN W/ CONCRETE
1 1/2" = 1'-0"



A3 DETAIL AT ROOF DRAIN
1 1/2" = 1'-0"



A4 DETAIL AT OVERFLOW DRAIN W/ CONCRETE
1 1/2" = 1'-0"



A5 DETAIL AT OVERFLOW DRAIN
1 1/2" = 1'-0"

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VERTICAL CIRCULATION

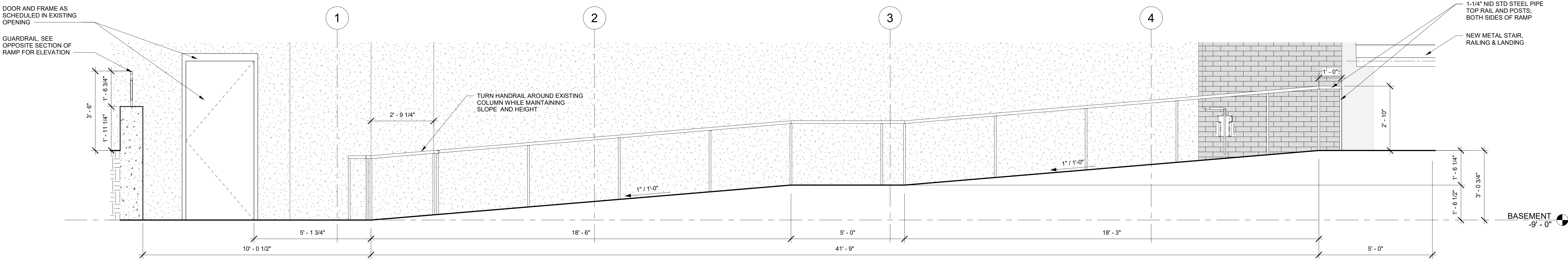
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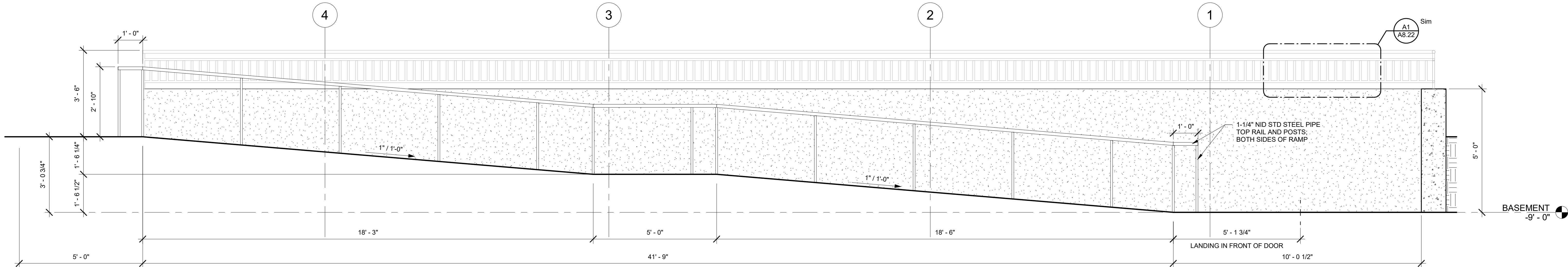
C

B

A



B1 SECTION @ EXTERIOR RAMP - PLAN NORTH
1/2" = 1'-0"



A1 SECTION @ EXTERIOR RAMP - PLAN SOUTH
1/2" = 1'-0"

1

2

3

4

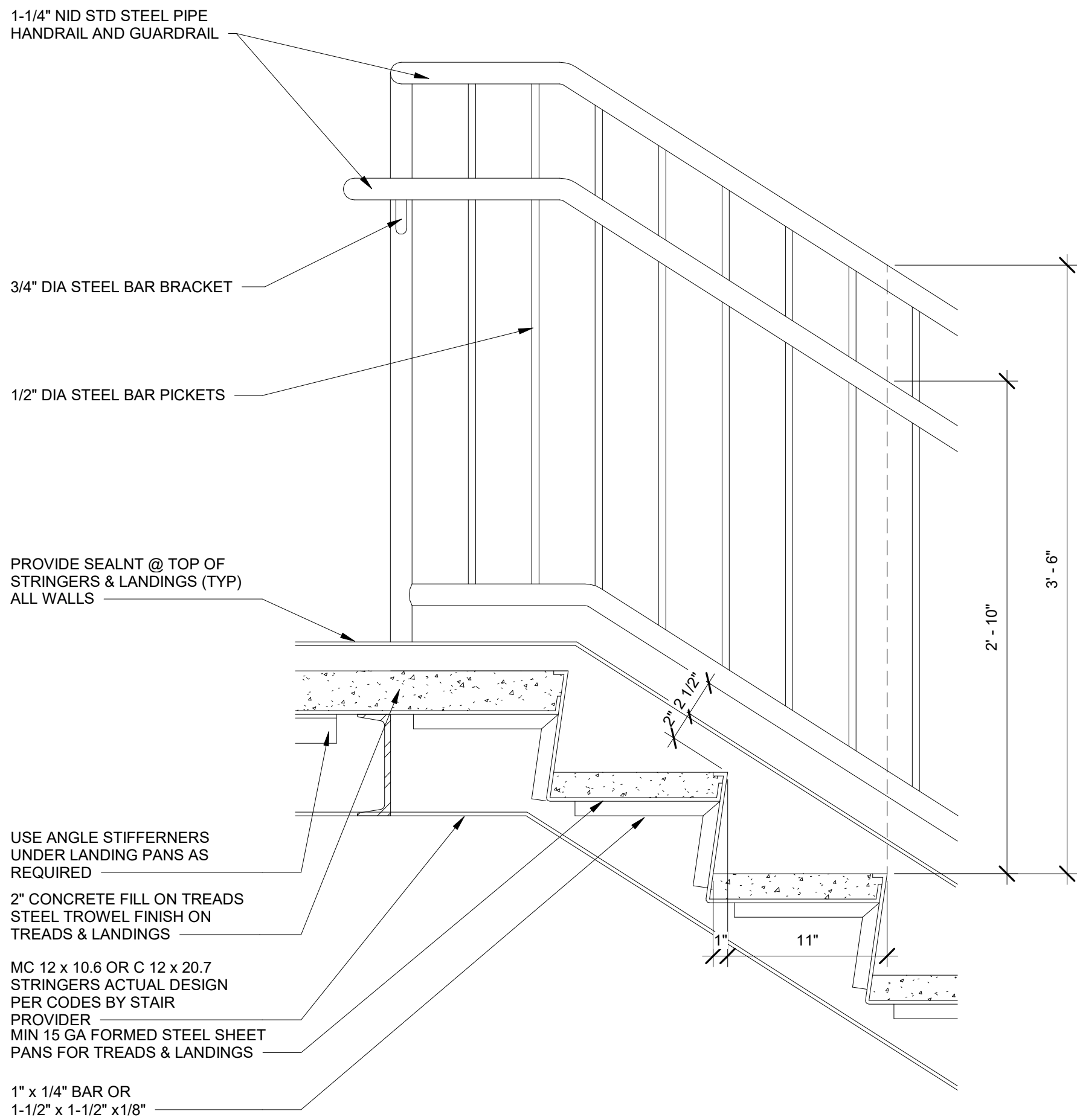
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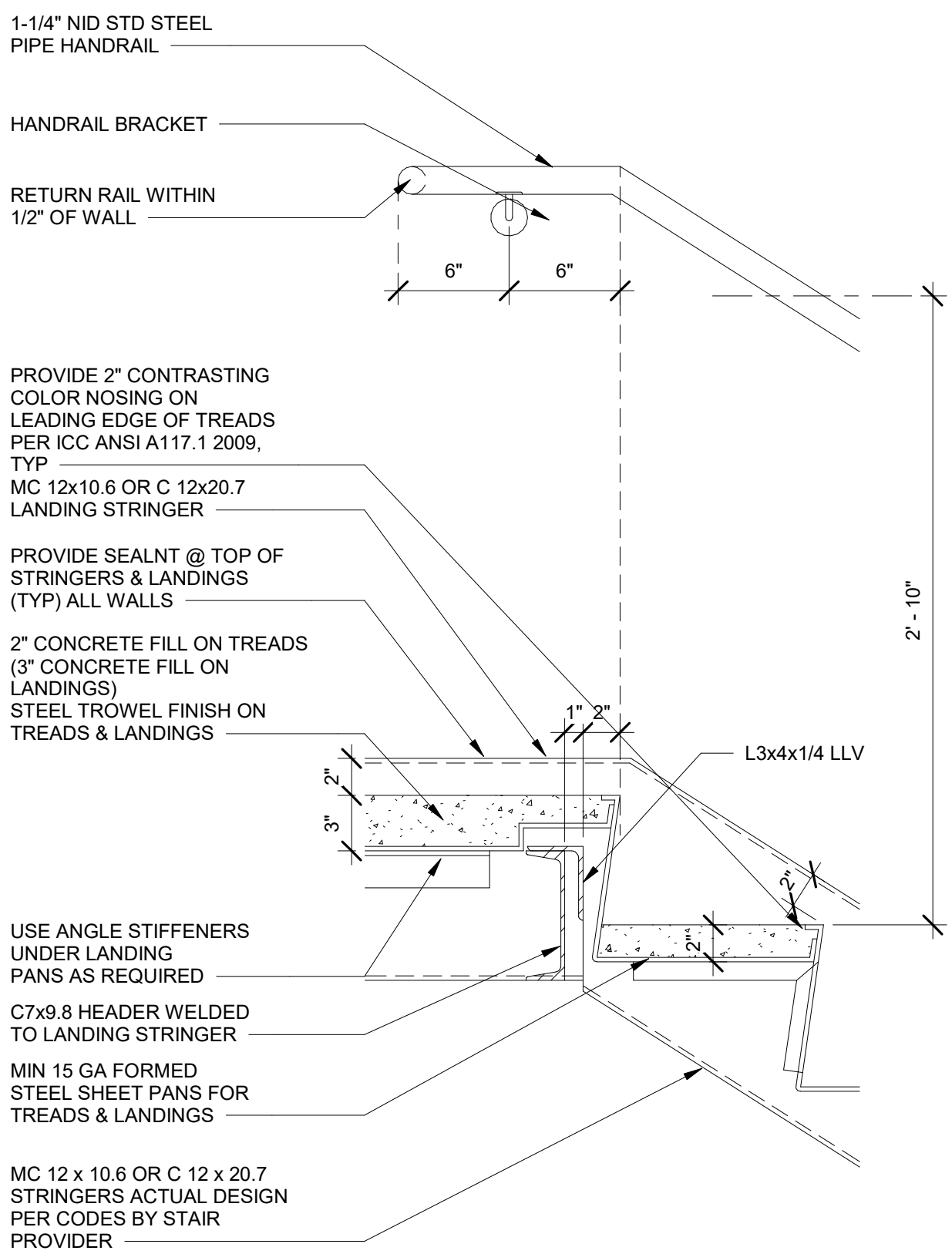
C

B

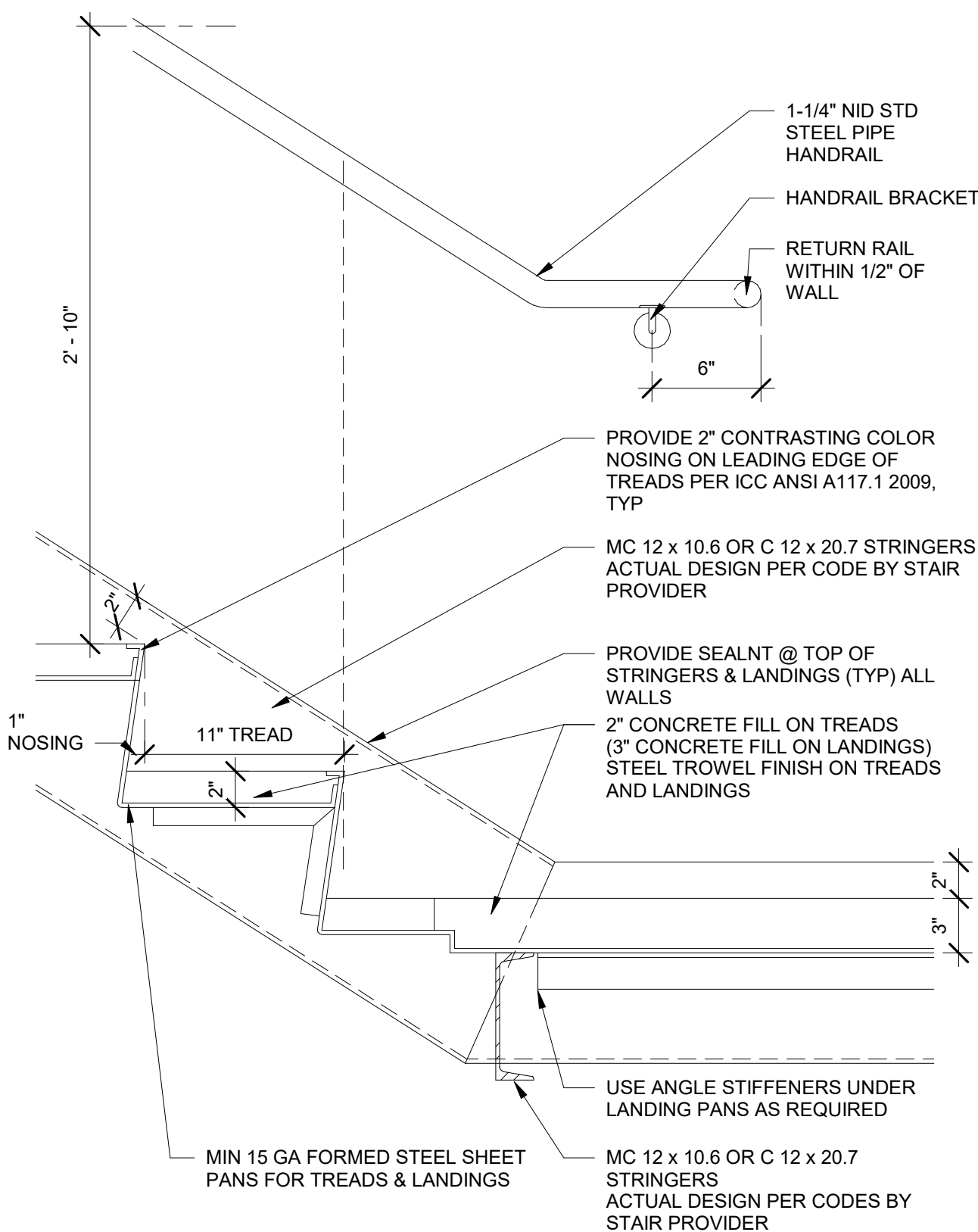
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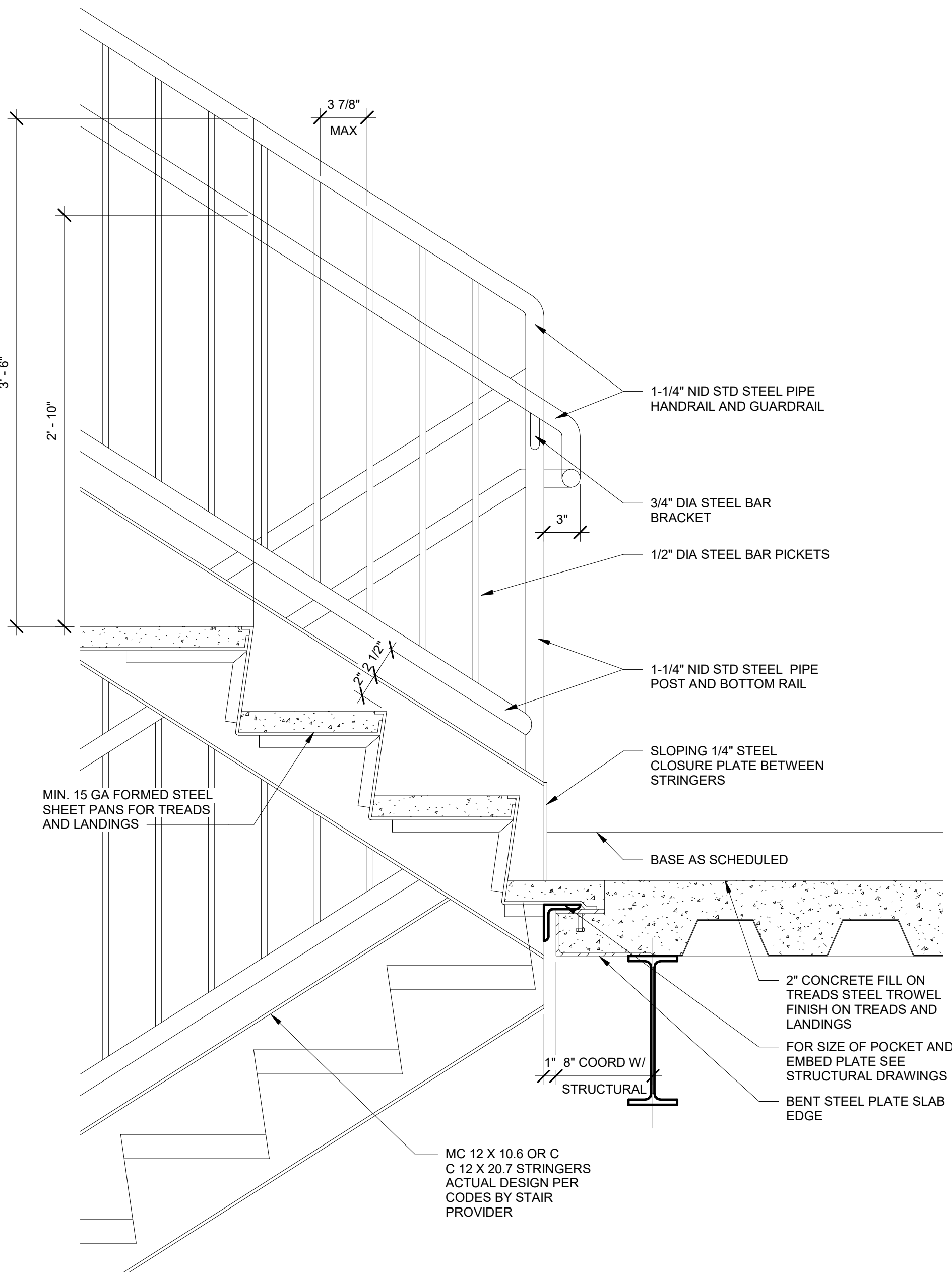
C2 HANDRAIL ELEVATION AT TOP LANDING
1 1/2" = 1'-0"



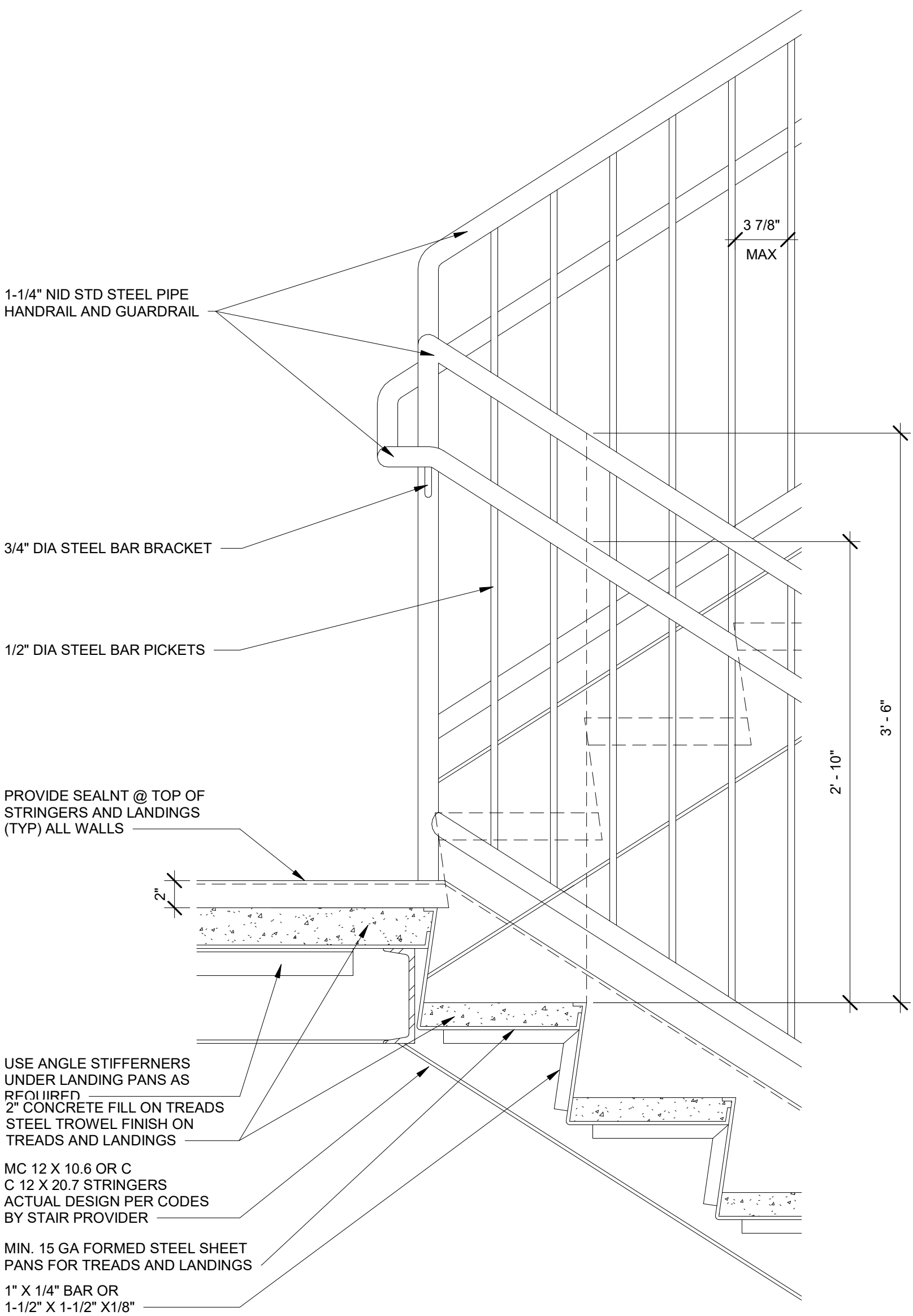
C3 TOP LANDING STRINGER DETAIL AT WALL
1 1/2" = 1'-0"



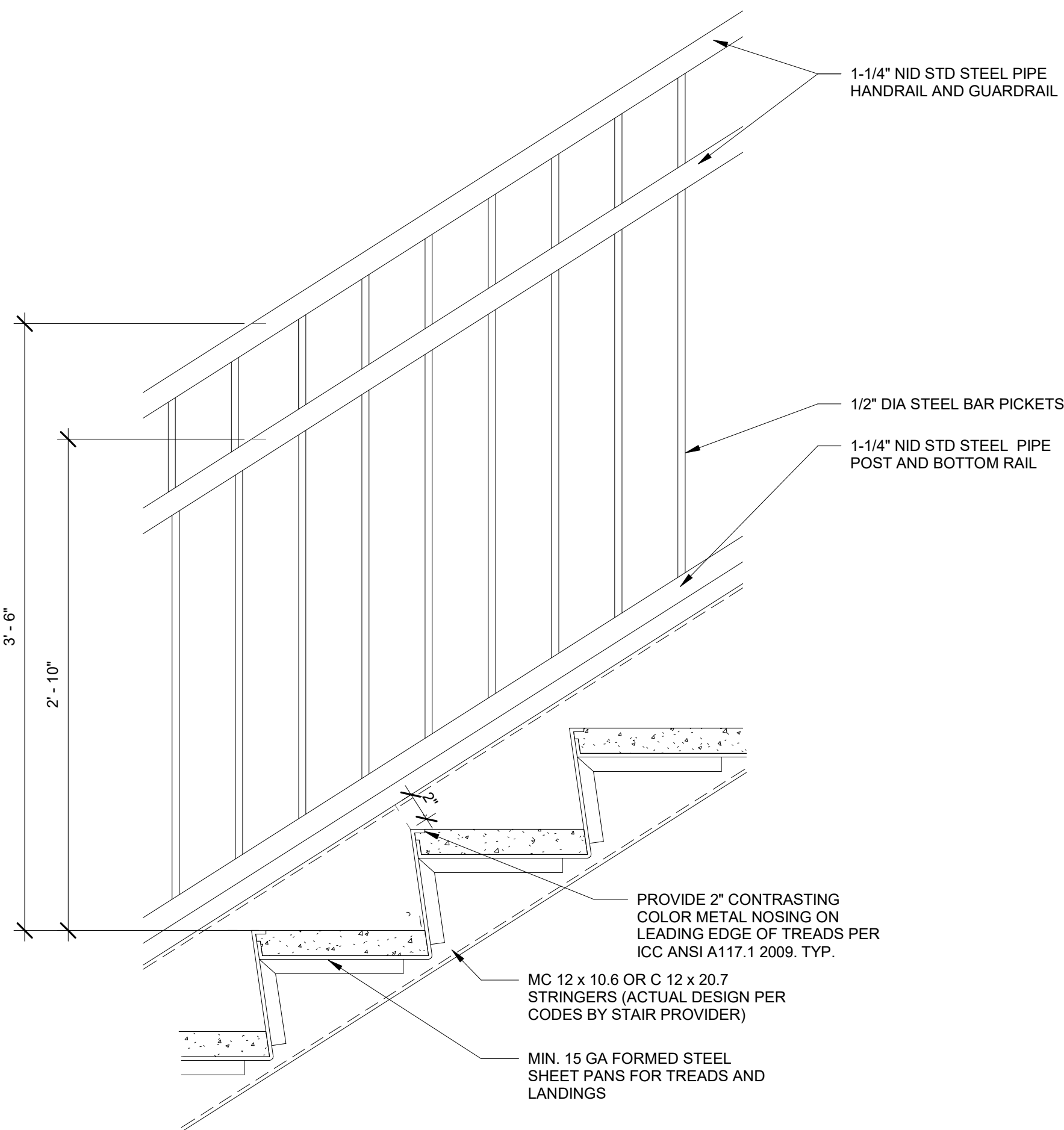
C4 LANDING STRINGER DETAIL AT WALL
1 1/2" = 1'-0"



A1 DETAIL AT FLOOR LANDING - UP & DOWN RISER ALIGNED
1 1/2" = 1'-0"



A2 DETAIL AT INTERMEDIATE LANDING - UP & DOWN RISERS
1 1/2" = 1'-0"



A4 STAIR DETAIL THRU STANDARD RUN
1 1/2" = 1'-0"

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JULY 7, 2025



CANTON POLICE STATION RENO

No.	Description	Date

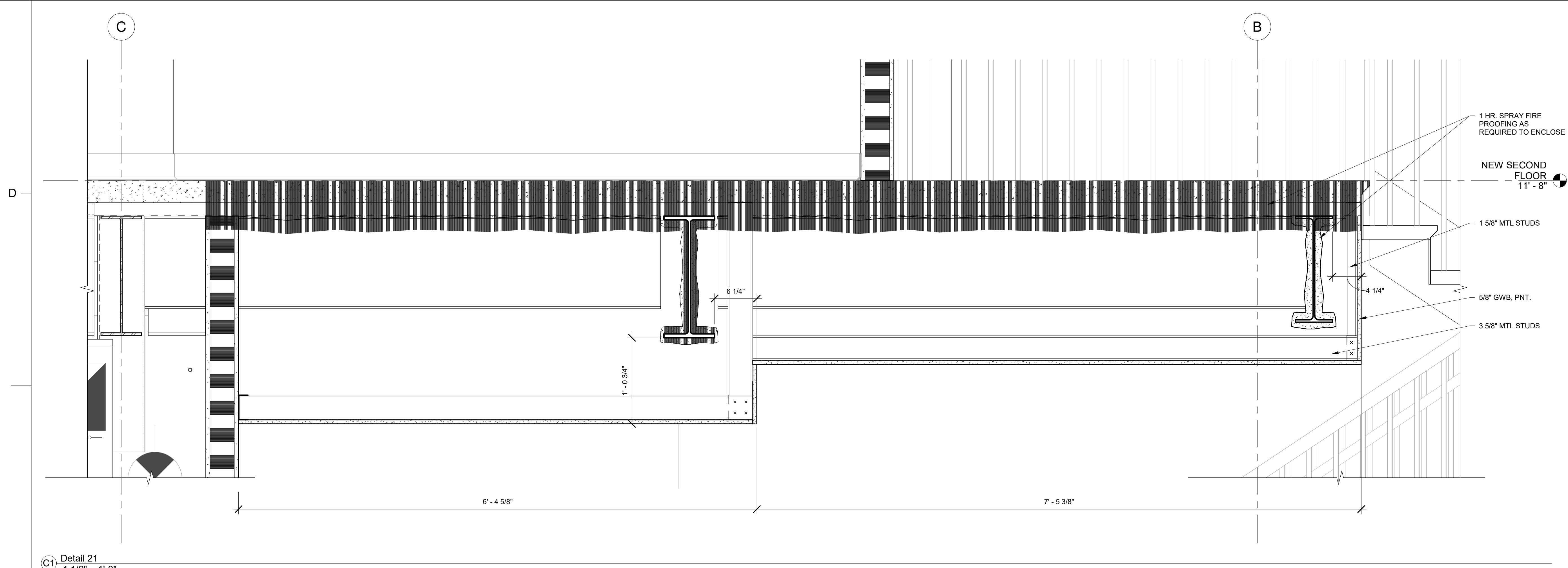
Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

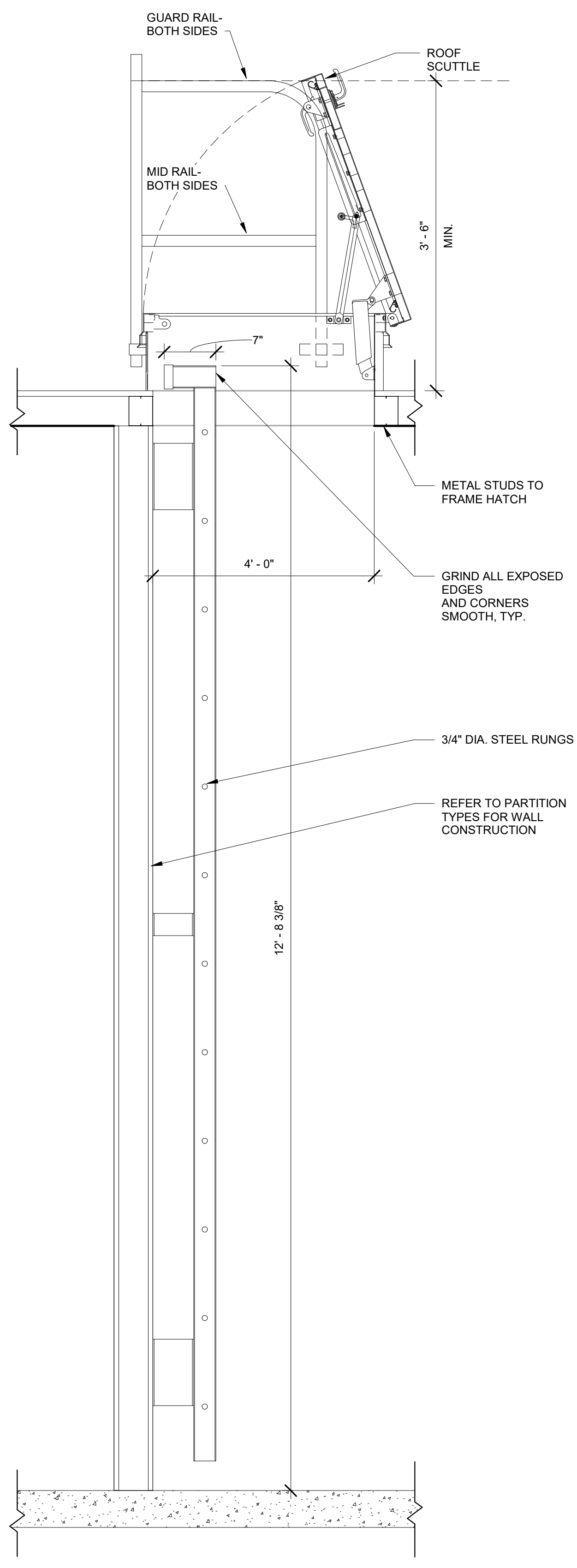
Date: JULY 7, 2025

VERTICAL
CIRCULATION
DETAILS

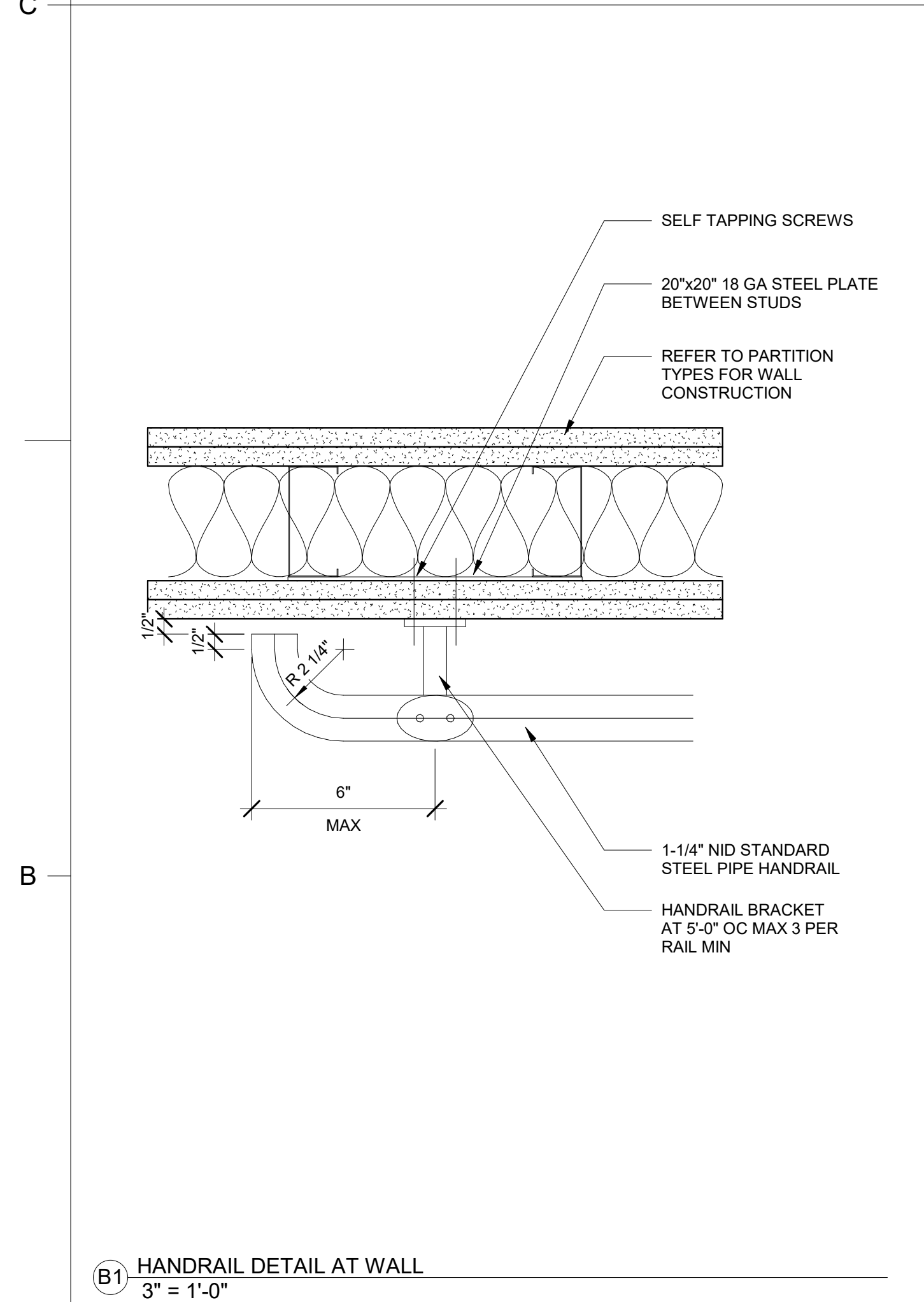
A8.21



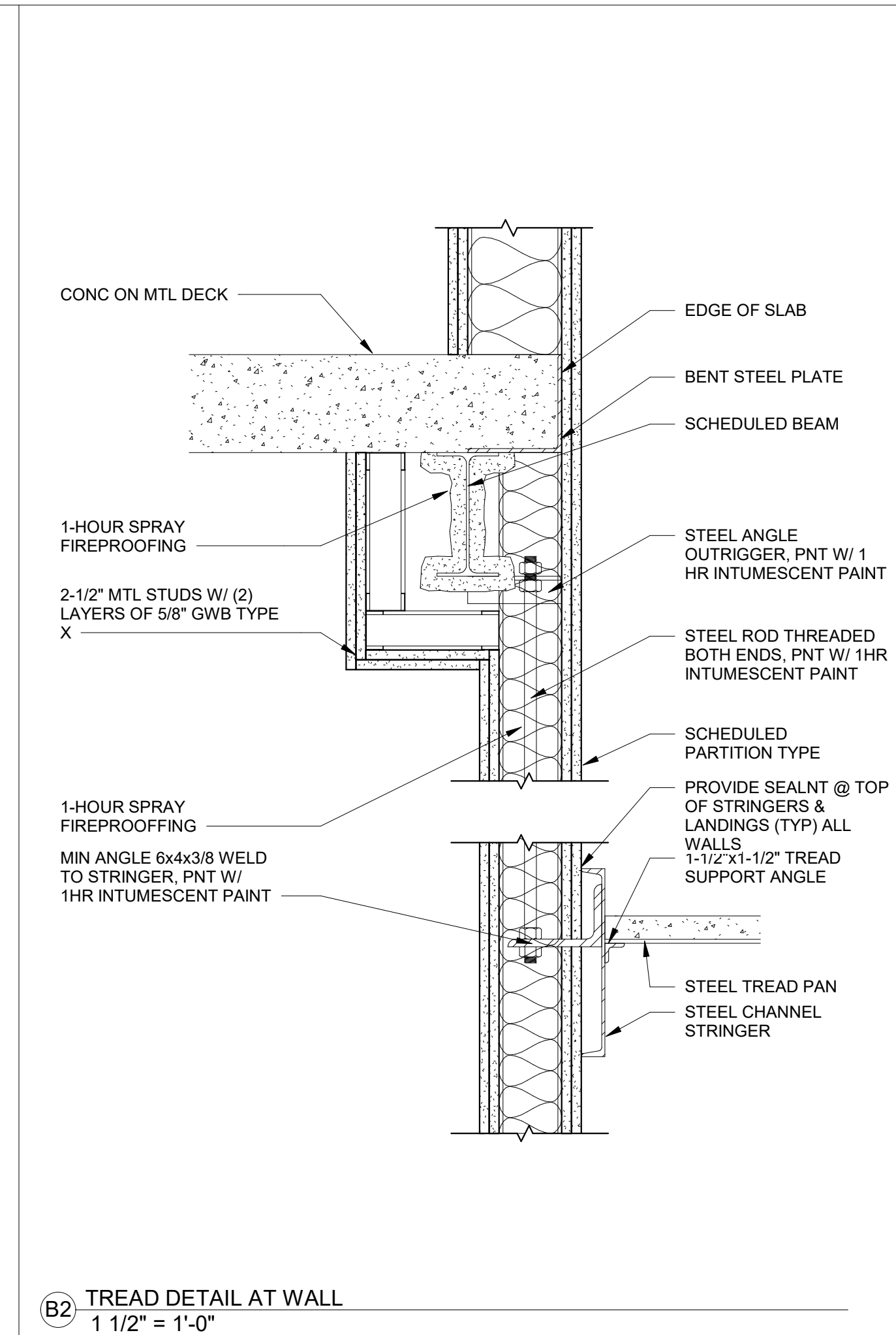
C1 Detail 21
1 1/2" = 1'-0"



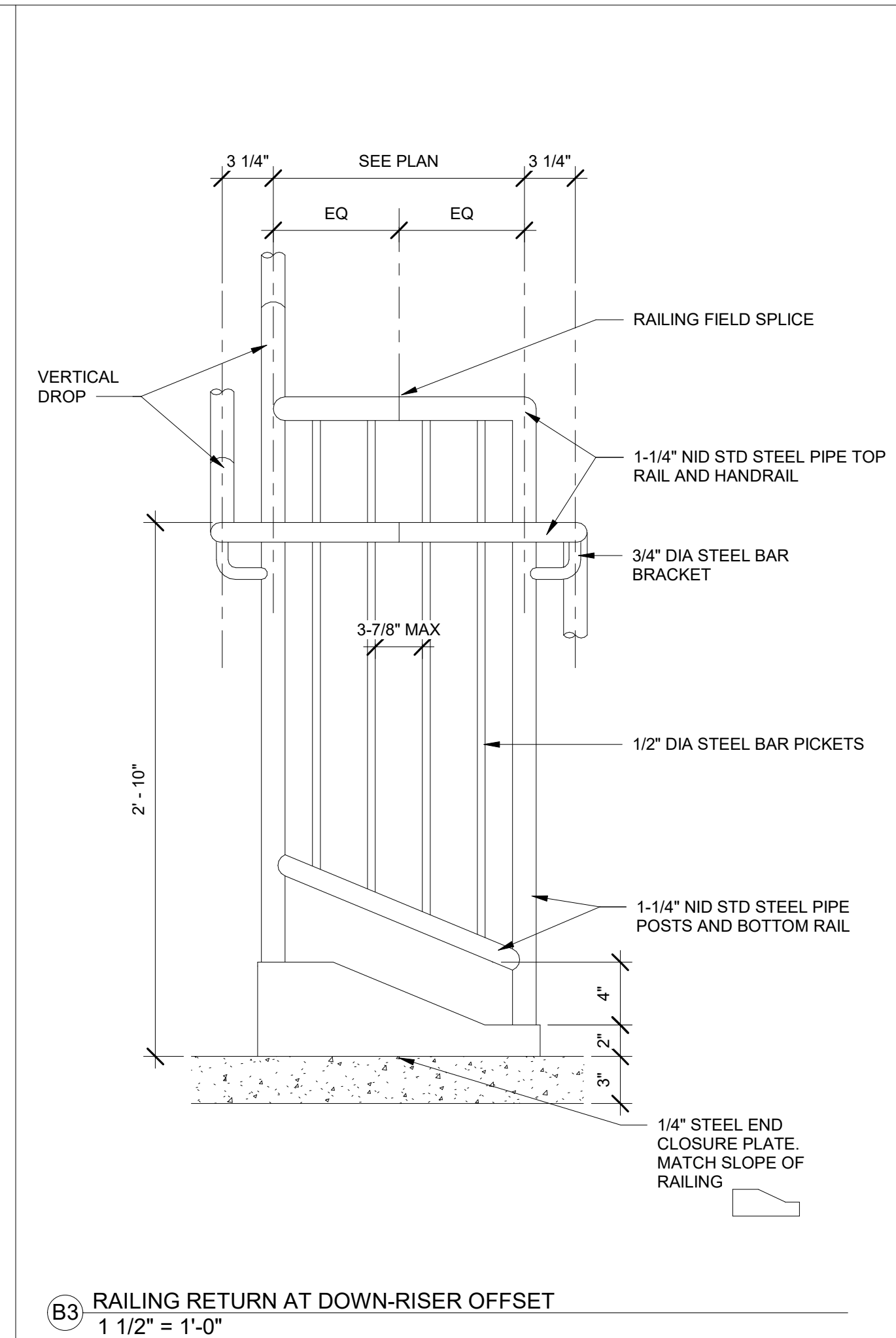
B5 HATCH DETAIL - TYPICAL
1" = 1'-0"



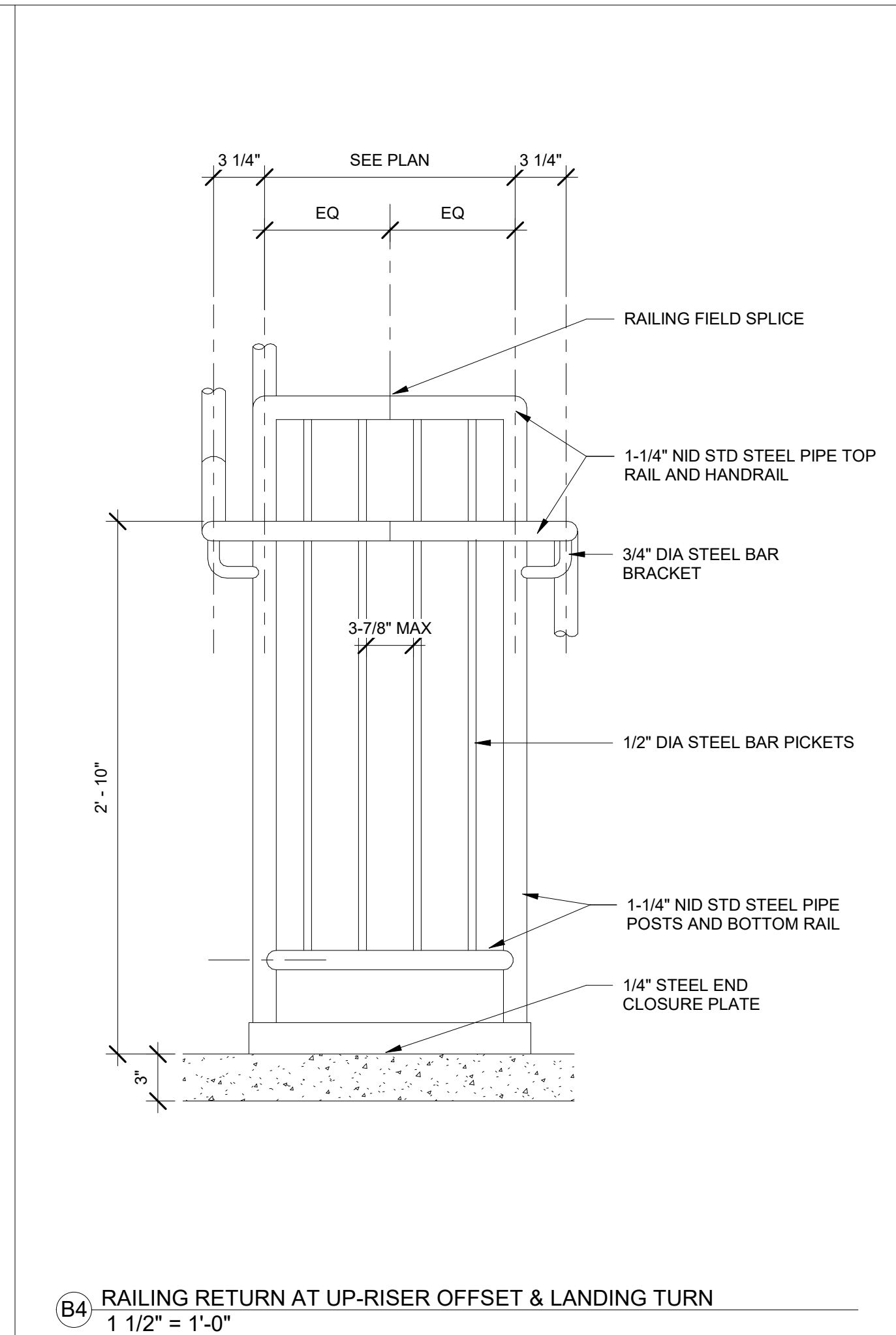
B1 HANDRAIL DETAIL AT WALL
3" = 1'-0"



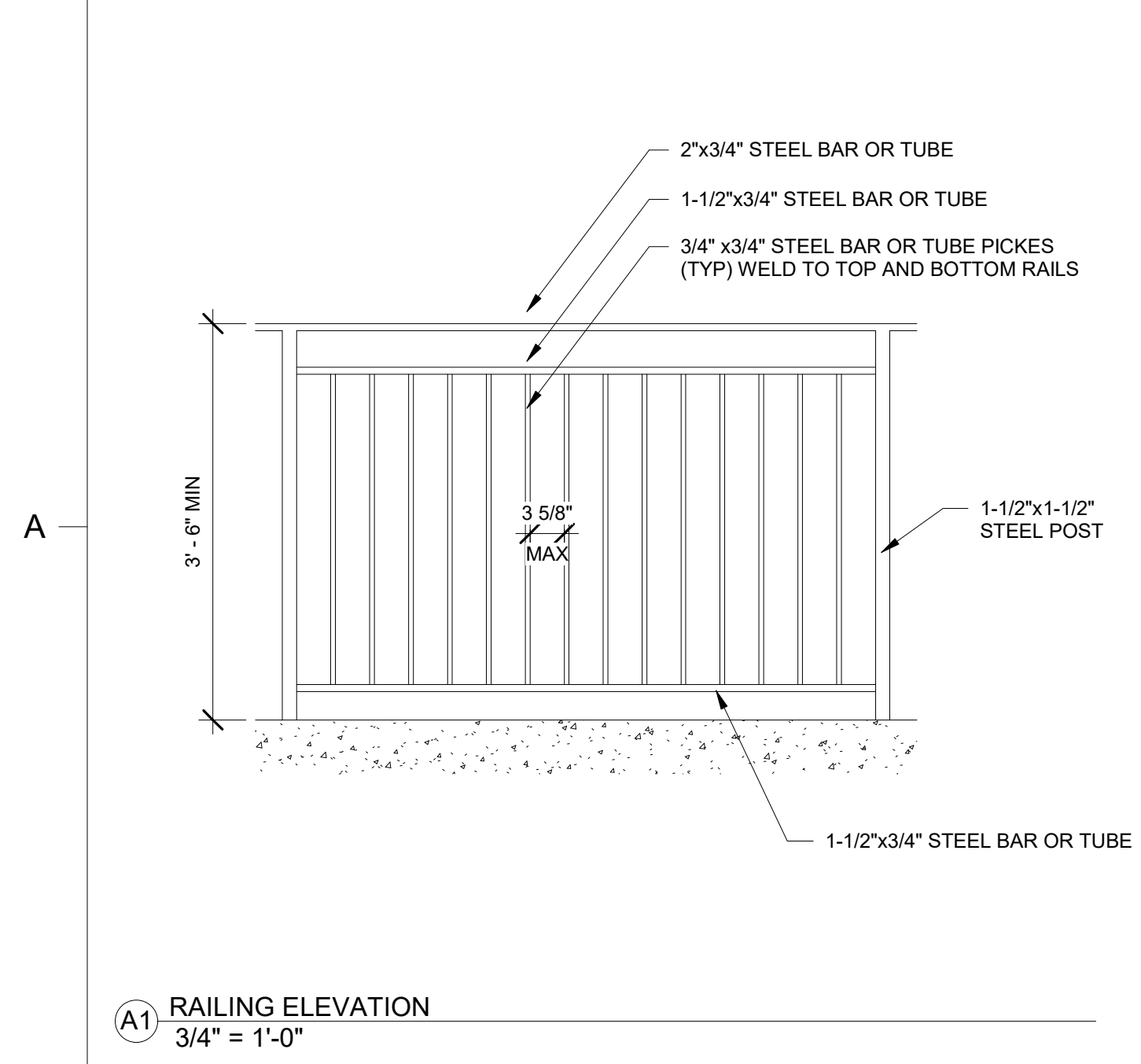
B2 TREAD DETAIL AT WALL
1 1/2" = 1'-0"



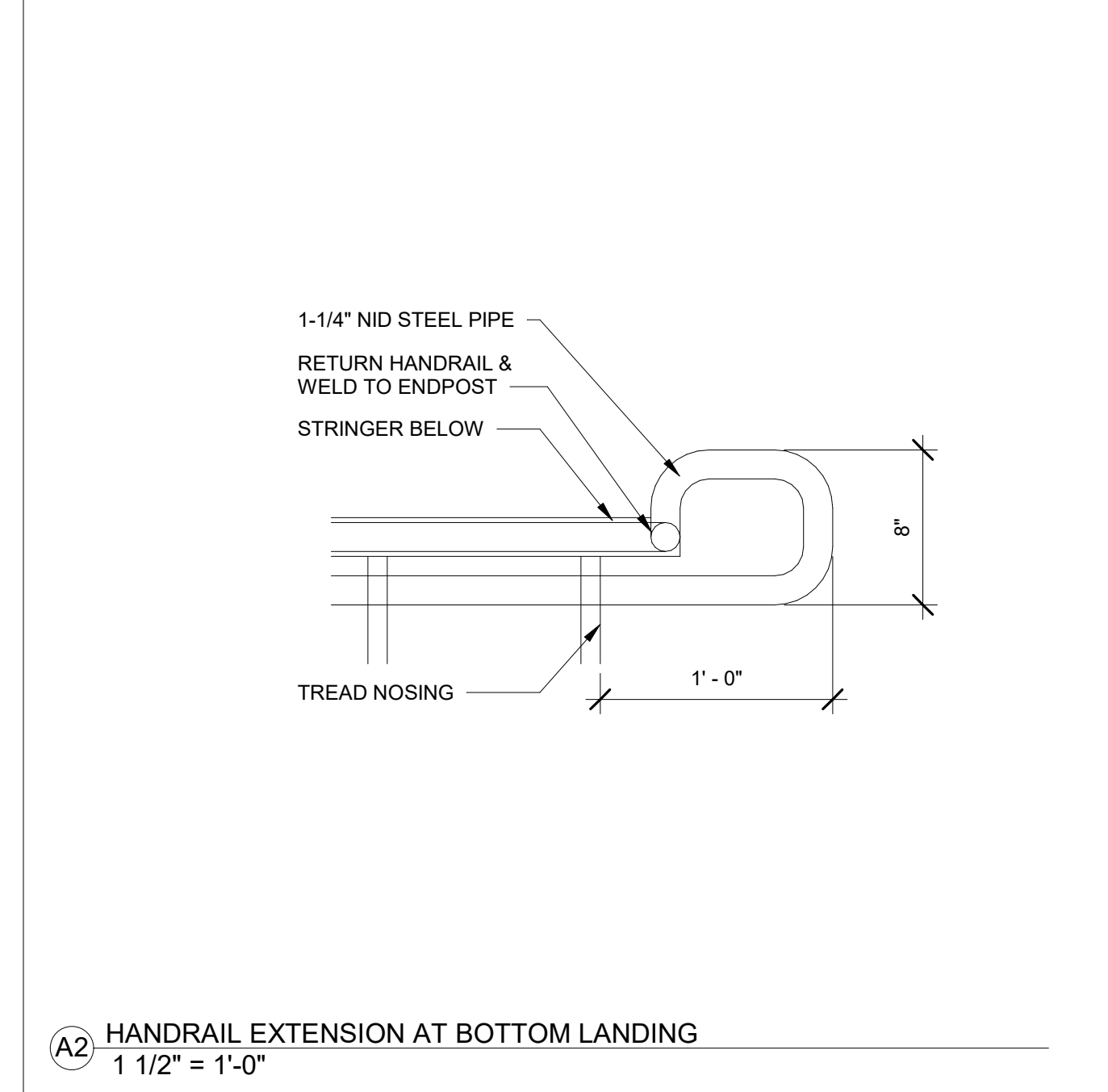
B3 RAILING RETURN AT DOWN-RISER OFFSET
1 1/2" = 1'-0"



B4 RAILING RETURN AT UP-RISER OFFSET & LANDING TURN
1 1/2" = 1'-0"



A1 RAILING ELEVATION
3/4" = 1'-0"



A2 HANDRAIL EXTENSION AT BOTTOM LANDING
1 1/2" = 1'-0"



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CANTON POLICE STATION RENO

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VERTICAL CIRCULATION DETAILS

A8.22

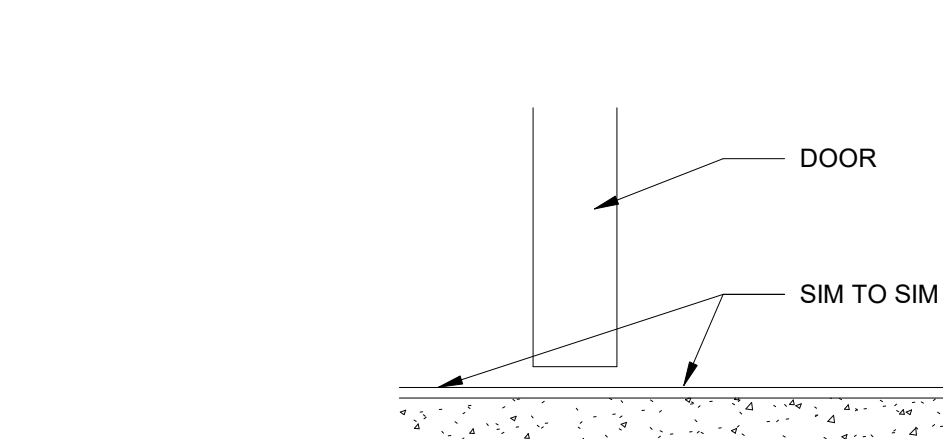
D

DOOR SCHEDULE													
Door						Frame						Comments	
Mark	Width	Height	Elevation	Material	Finish	Hardware	Fire Rating	Frame Type	Frame Material	Frame Finish	Jamb		
BASEMENT													
001	3' - 0"	7' - 0"	D3	SCWD/GLASS	PNT-5	6.0	45 MIN	F1	HM	PNT-6	J4	CARD READER	
002	3' - 0"	7' - 0"	D1	SCWD	PNT-5	8.0	45 MIN	F1	HM	PNT-6	J4		
003	3' - 0"	7' - 0"	D1	SCWD	PNT-5	9.0		F1	HM	PNT-6	J2	CARD READER SET THRESHOLD IN BED OF SEALANT; CARD READER	
004	3' - 0"	7' - 0"	D1	SCWD	PNT-5	14.0		F2	HM	PNT-6	J8		
006	3' - 0"	7' - 0"	D1	STL	PNT-5	4.0		F2	STL	PNT-6	J1	CARD READER	
007	3' - 0"	7' - 0"	D1	SCWD	PNT-5	14.0		F1	HM	PNT-6	J2	UNDERCUT DOOR 1" TO ALLOW WATER TO SUMP PIT ACCESS PANEL DOOR	
009	3' - 0"	7' - 0"	D1	SCWD	PNT-5	14.0		F1	HM	PNT-6	J2		
010	3' - 0"	7' - 0"	D1	SCWD	PNT-5	14.0		F1	HM	PNT-6	J5		
011	3' - 0"	7' - 0"	D1	SCWD	PNT-5	14.0		F1	HM	PNT-6	J2		
013	2' - 6"	6' - 8"	D1	SCWD	PNT-5	14.0		F2	HM	PNT-6	J8		
AP1	3' - 0"	3' - 3"	MANUFAC TURER	HM	PNT-5	MANUFAC TURER	N/A	MANUFAC TURER	HM	PNT-6	MANUFAC TURER		
FIRST FLOOR													
101A	3' - 6"	6' - 10"	D5	FIBERGLASS/GLASS	PNT-3	2.0		F1	HM	PNT-3	SEE C3/A7.12	CARD READER	
101B	3' - 0"	7' - 0"	D4	STL/GLASS		8.0		F2	STL		J3	CARD READER	
102	3' - 0"	7' - 0"	D1	SCWD	PNT-5	10.0		F1	HM	PNT-6	J7	CARD READER CARD READER	
103	3' - 0"	7' - 0"	D1	STL		7.0		F2	STL		J3		
104	3' - 0"	7' - 0"	D1	SCWD	PNT-5	7.0		F1	HM	PNT-6	J2	INCLUDE FLOOR-MOUNTED DOOR STOP	
109	3' - 0"	7' - 0"	D1	SCWD	PNT-5	9.0		F1	HM	PNT-6	J2		
110	3' - 0"	7' - 0"	D1	SCWD	PNT-5	12.0		F1	HM	PNT-6	J2		
111	3' - 0"	7' - 0"	D1	SCWD	PNT-5	9.0		F1	HM	PNT-6	J2		
112	3' - 0"	7' - 0"	D1	SCWD	PNT-5	14.0		F1	HM	PNT-6	J2		
114	3' - 0"	7' - 0"	D1	SCWD	PNT-5	11.0		F1	HM	PNT-6	J2		
116	3' - 0"	7' - 0"	D3	SCWD/GLASS	PNT-5	6.0	45 MIN	F1	HM	PNT-6	J4	CARD READER CARD READER CARD READER	
117A	3' - 0"	7' - 0"	D1	STL	PNT-5	1.0		F2	STL	PNT-6	J6		
117B	3' - 0"	7' - 0"	D1	SCWD	PNT-5	7.0	45 MIN	F1	HM	PNT-6	J4		
118	3' - 0"	7' - 0"	D2	SCWD/GLASS	PNT-5	13.0		F1	HM	PNT-6	J2		
119	3' - 0"	7' - 0"	D1	SCWD	PNT-5	15.0	45 MIN	F1	HM	PNT-6	J4		
120	2' - 6"	7' - 0"	D1	SCWD	PNT-5	14.0		F1	HM	PNT-6	J2		
121	3' - 0"	7' - 0"	D1	HM	PNT-5	3.0		F2	HM	PNT-6	J6	NEW SECOND FLOOR	
201	3' - 0"	7' - 0"	D3	SCWD/GLASS	PNT-5	5.0	45 MIN	F1	HM	PNT-6	J4		CARD READER
203	3' - 0"	7' - 0"	D2	SCWD/GLASS	PNT-5	11.0		F1	HM	PNT-6	J2		
204	3' - 0"	7' - 0"	D2	SCWD/GLASS	PNT-5	11.0		F1	HM	PNT-6	J2		
205	3' - 0"	7' - 0"	D2	SCWD/GLASS	PNT-5	11.0		F1	HM	PNT-6	J2		
206	3' - 0"	7' - 0"	D1	SCWD	PNT-5	11.0		F1	HM	PNT-6	J2		
208	3' - 0"	7' - 0"	D2	SCWD/GLASS	PNT-5	11.0		F1	HM	PNT-6	J2		
209	3' - 0"	7' - 0"	D2	SCWD/GLASS	PNT-5	11.0		F1	HM	PNT-6	J2		
210	3' - 0"	7' - 0"	D1	SCWD	PNT-5	9.0		F1	HM	PNT-6	J2		
211	3' - 0"	7' - 0"	D2	SCWD/GLASS	PNT-5	14.0		F1	HM	PNT-6	J2		
213	3' - 0"	7' - 0"	D2	SCWD/GLASS	PNT-5	11.0		F1	HM	PNT-6	J2		

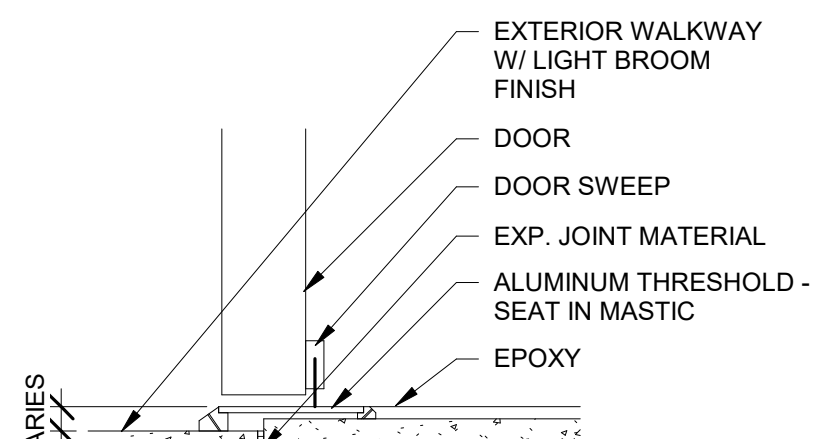
CASED OPENING SCHEDULE				
Mark	Width	Height	Elevation	Notes

BASEMENT				
C005	3' - 0"	7' - 0"	C1	CASED OPENING WALLS AND CEILING TO BE PNT-2
FIRST FLOOR				
C032	3' - 0"	6' - 8"	C1	
C103	3' - 0"	7' - 0"	C1	CASED OPENING WALLS AND CEILING TO BE PNT-2
C105	4' - 0"	7' - 0"	C1	
C113A	3' - 6"	7' - 0"	C1	CASED OPENING WALLS AND CEILING TO BE PNT-2
C113B	3' - 6"	7' - 0"	C1	CASED OPENING WALLS AND CEILING TO BE PNT-2

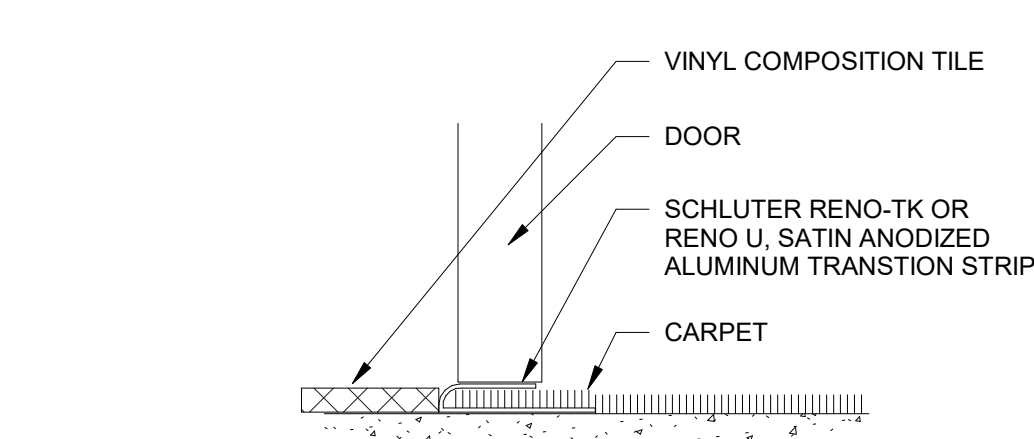
B



TRANSITION - SIM TO SIM
3" = 1'-0"

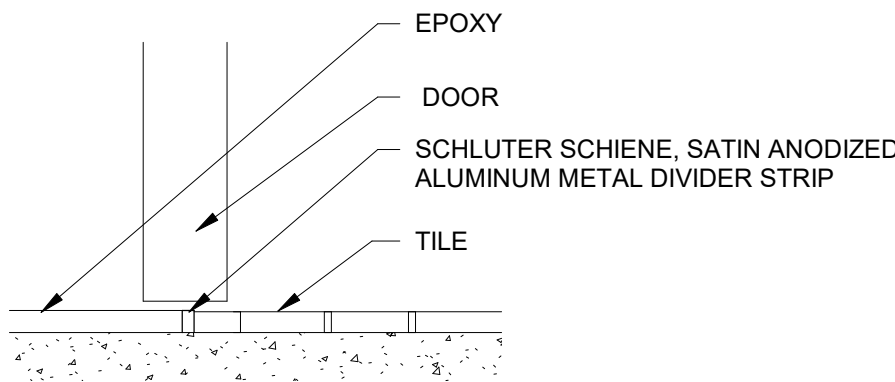


EXTERIOR TRANSITION - CONCRETE TO EPOXY
3" = 1'-0"

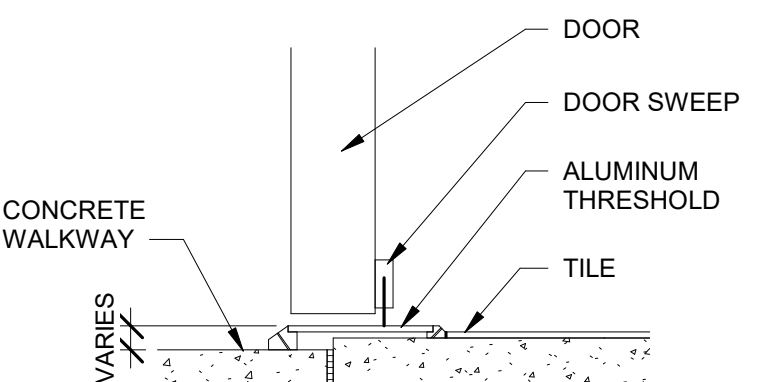


TRANSITION - CARPET TO VCT
3" = 1'-0"

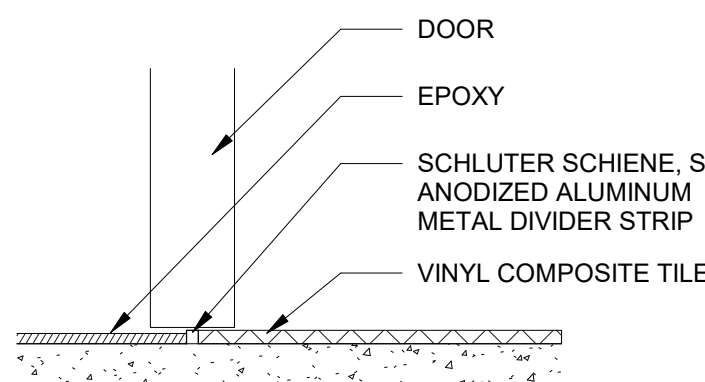
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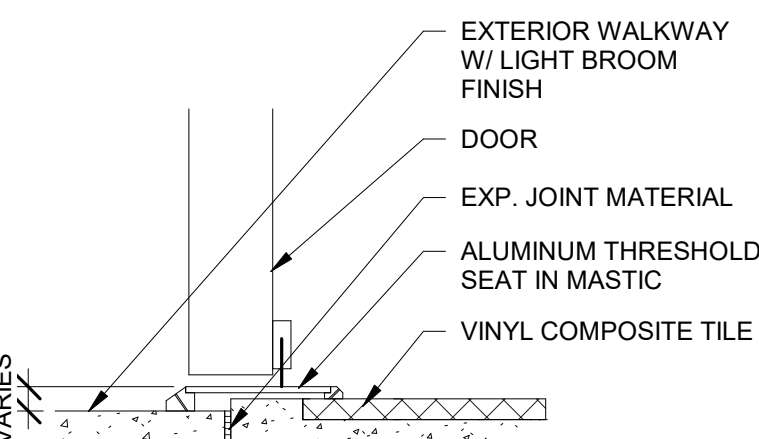
TRANSITION - EPOXY TO TILE
3" = 1'-0"



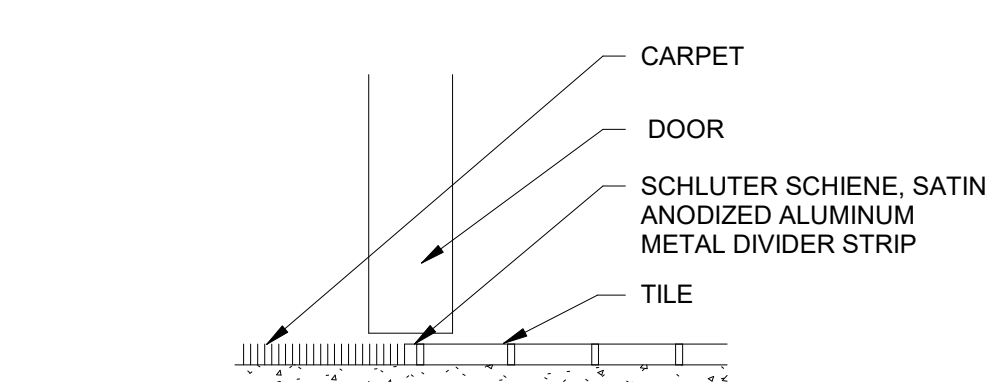
EXTERIOR TRANSITION - CONCRETE TO TILE
3" = 1'-0"



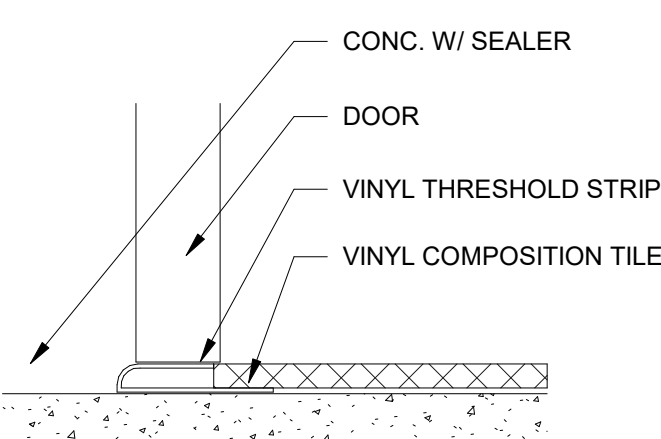
TRANSITION - EPOXY TO VCT
3" = 1'-0"



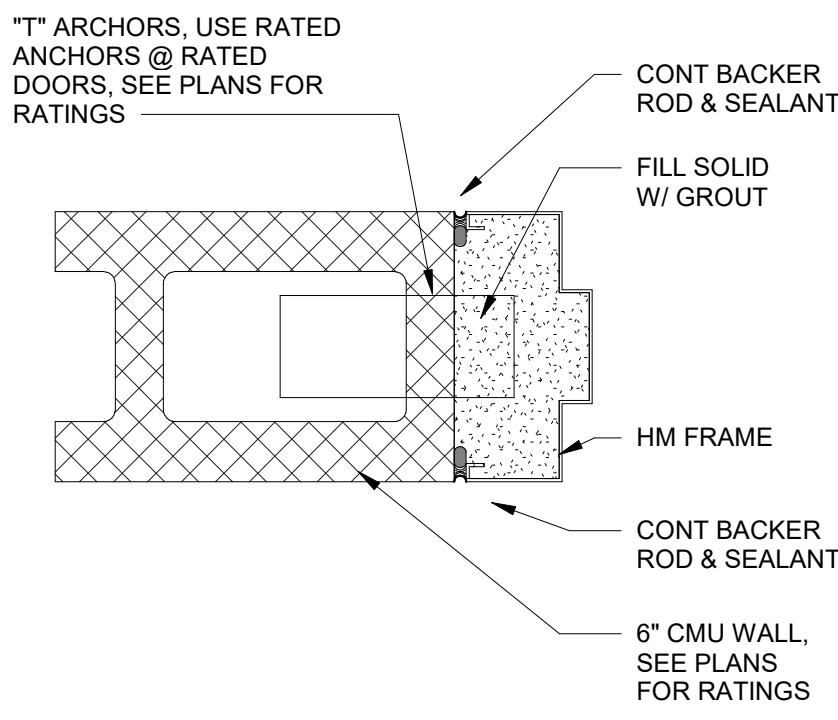
EXTERIOR TRANSITION - CONCRETE TO VCT
3" = 1'-0"



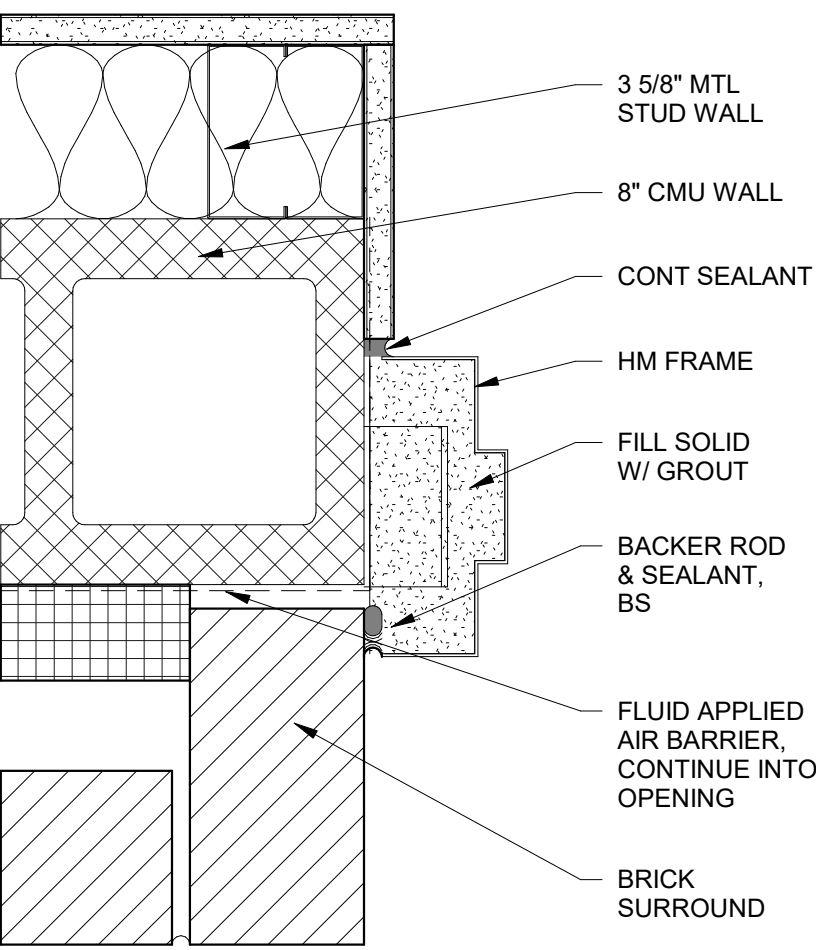
TRANSITION - CARPET TO TILE
3" = 1'-0"



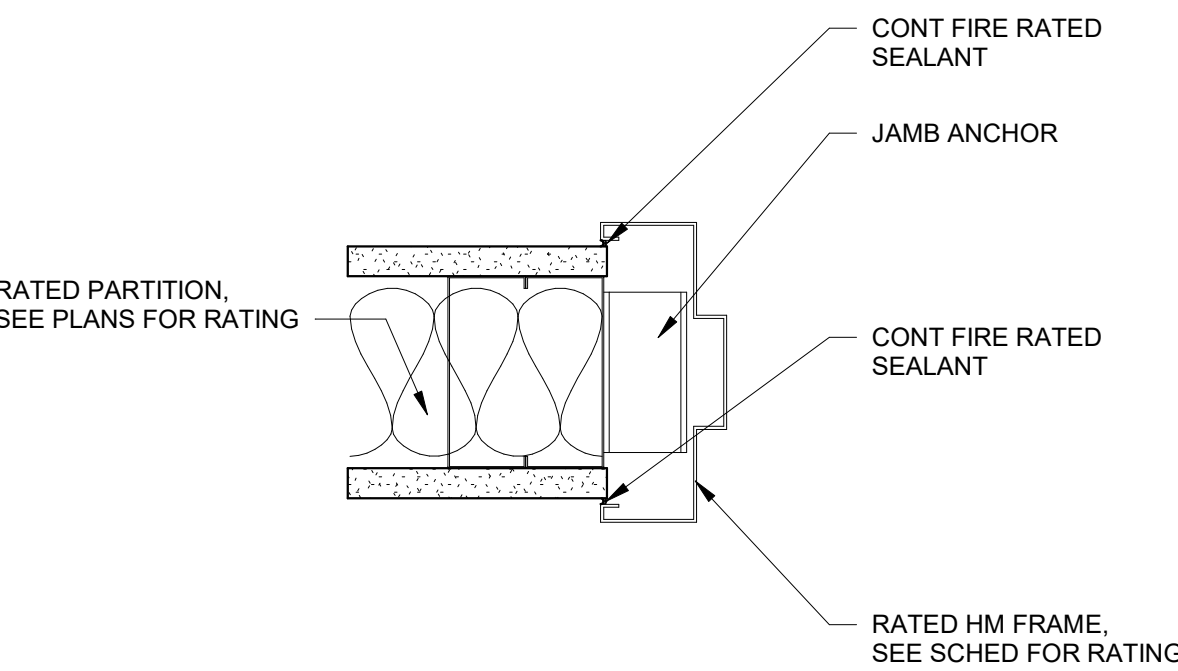
TRANSITION - CONCRETE TO VCT
3" = 1'-0"



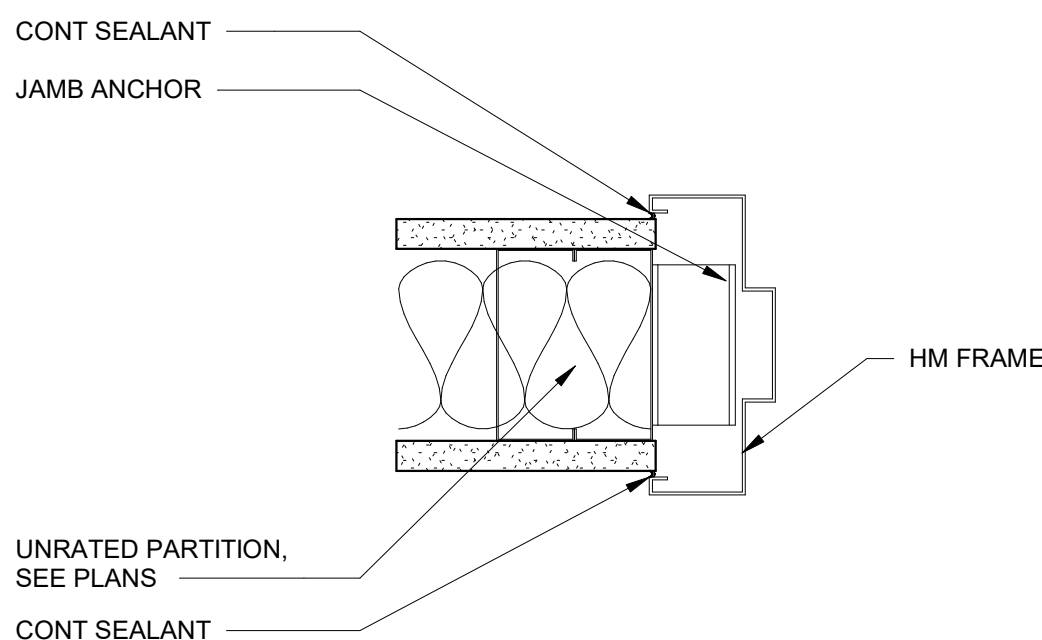
J8 - JAMB AT INTERIOR CMU WALL
3" = 1'-0"



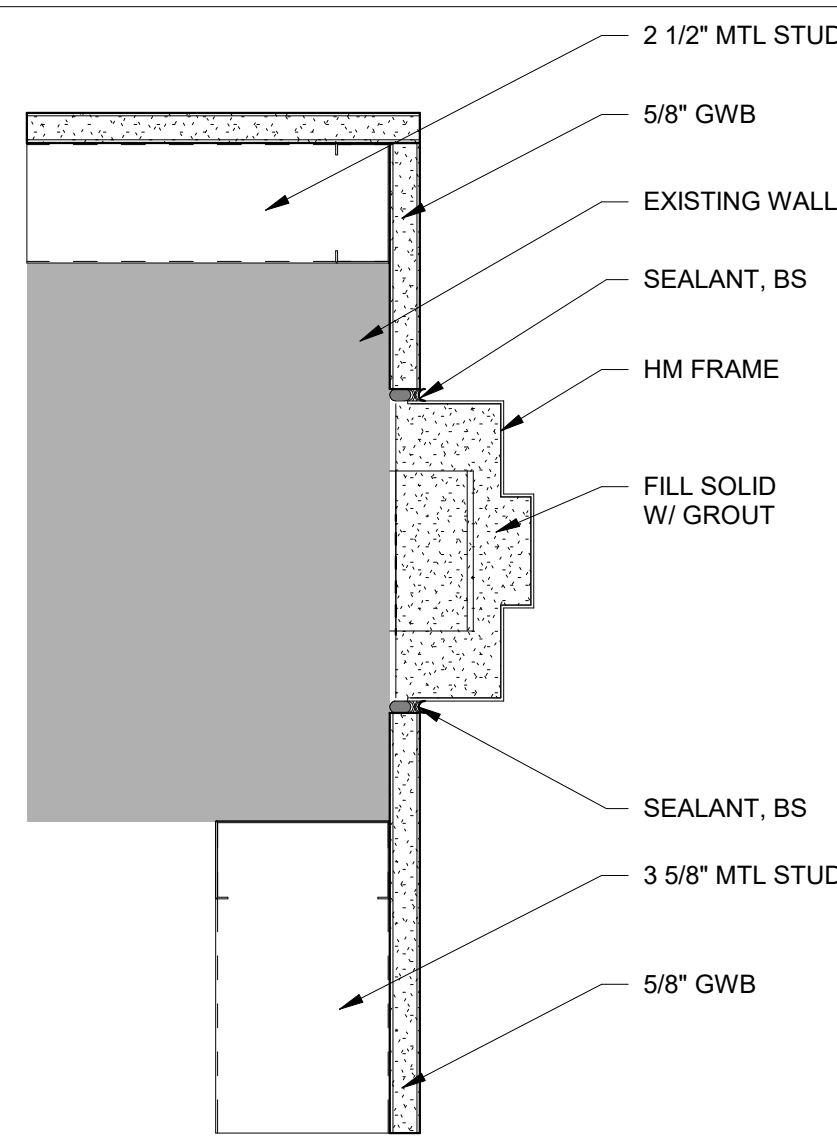
J6 - JAMB AT EXTERIOR CMU WALL W/ FURRING
3" = 1'-0"



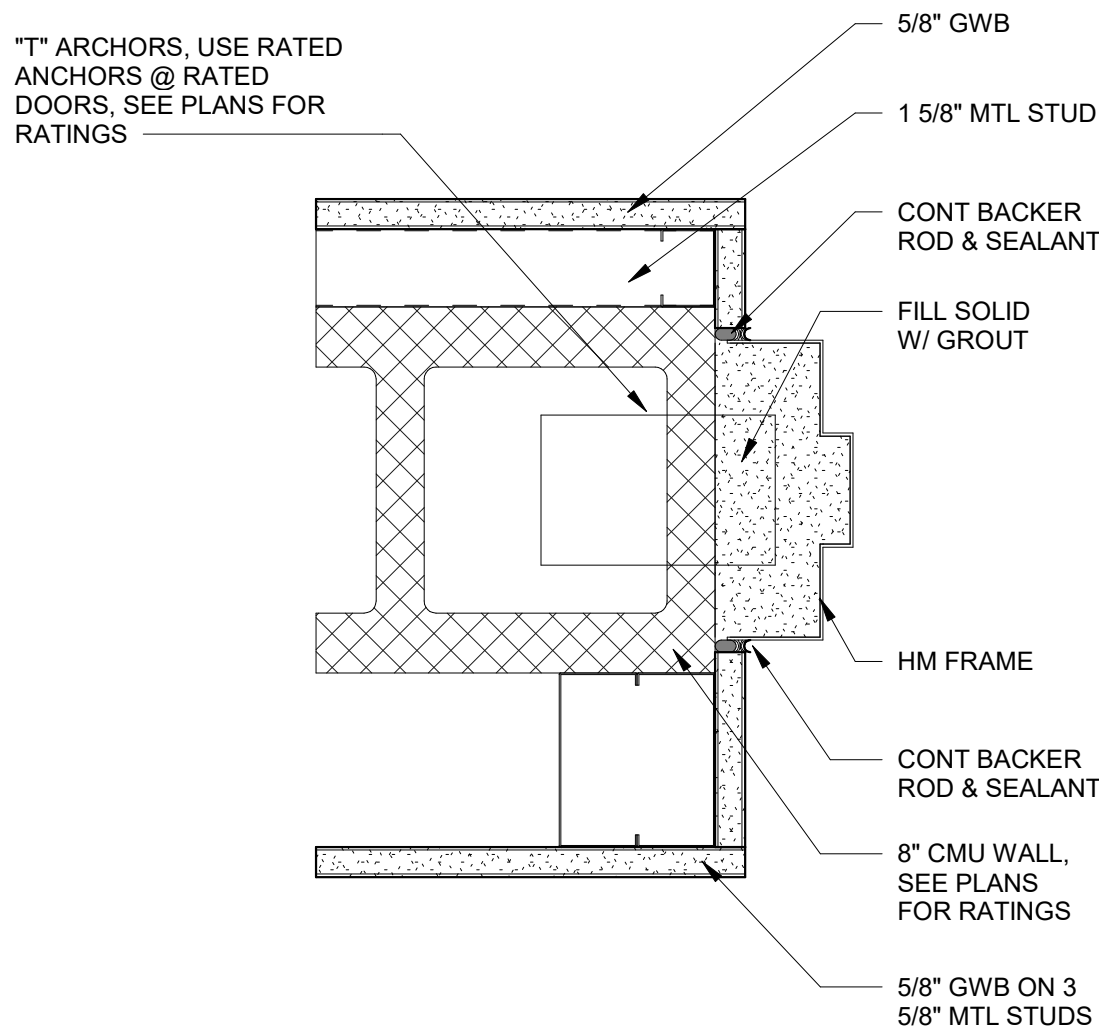
J4 - JAMB AT RATED STUD WALL
3" = 1'-0"



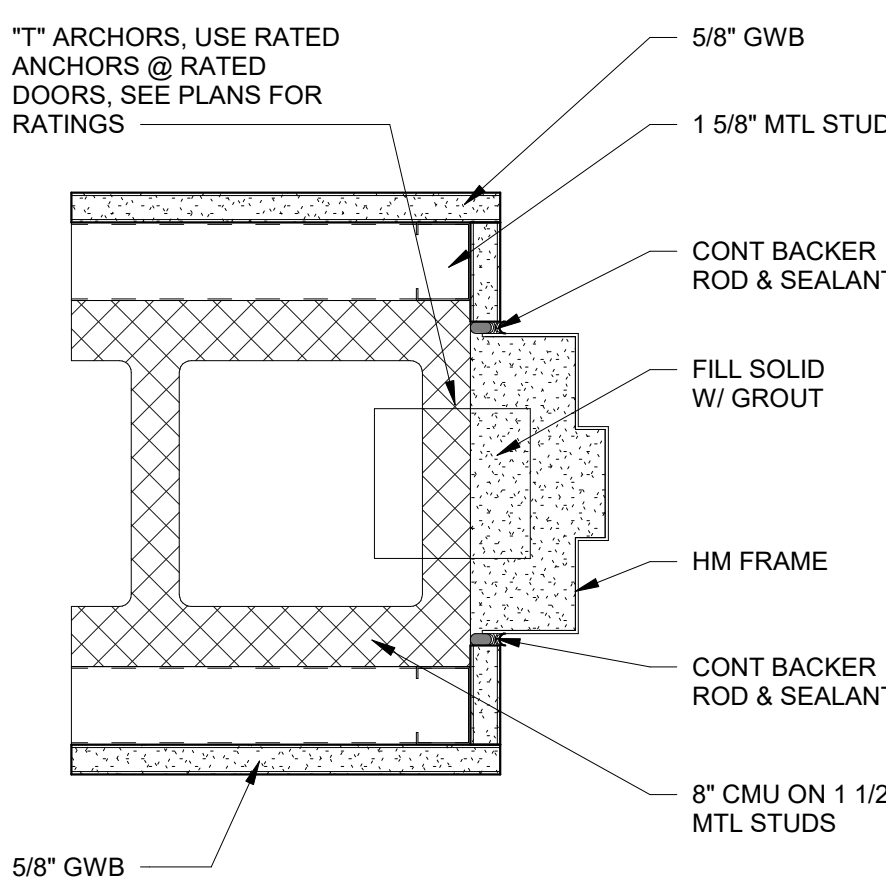
J2 - JAMB AT METAL STUD WALL
3" = 1'-0"



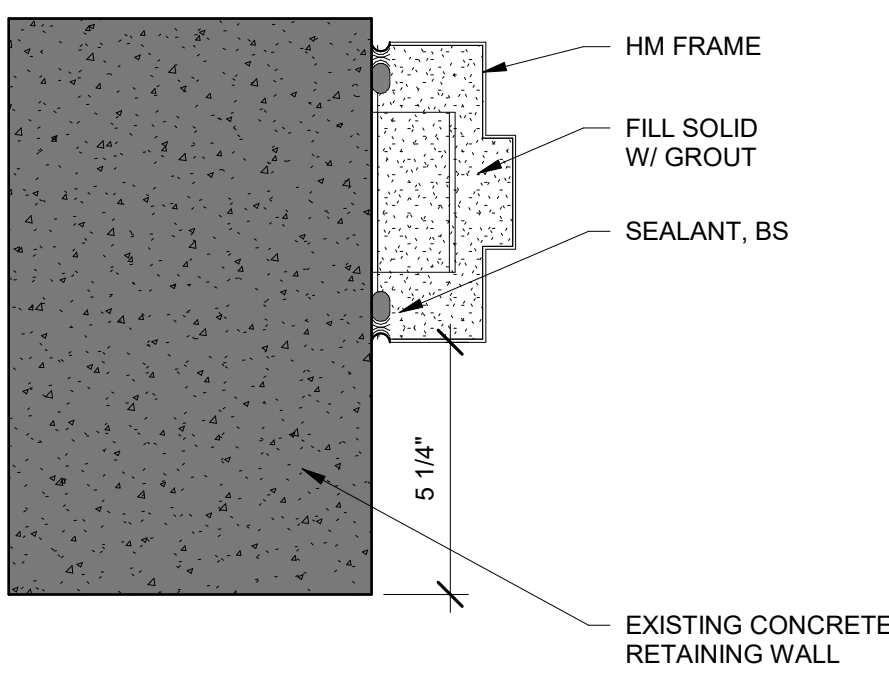
J7 - JAMB AT INTERIOR CMU WALL W/ BRICK & FURRING
3" = 1'-0"



J5 - JAMB AT INTERIOR CMU WALL W/ FURRING
3" = 1'-0"



J3 - JAMB AT INTERIOR CMU WALL W/ GWB
3" = 1'-0"



J1 - JAMB AT EXTERIOR CONCRETE RETAINING WALL
3" = 1'-0"

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CANTON POLICE STATION RENO

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DOOR SCHEDULE,
JAMBS, &
TRANSITIONS

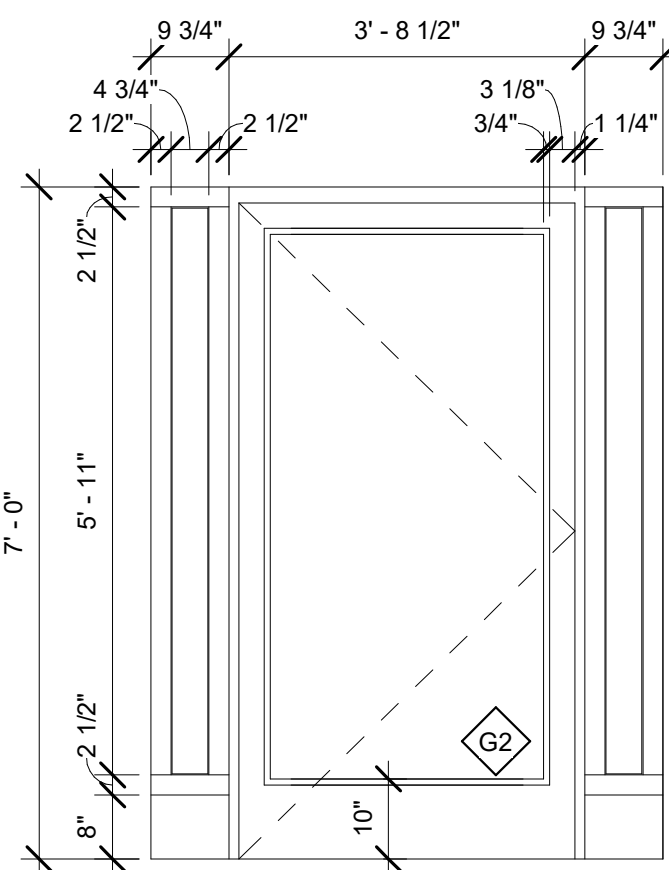
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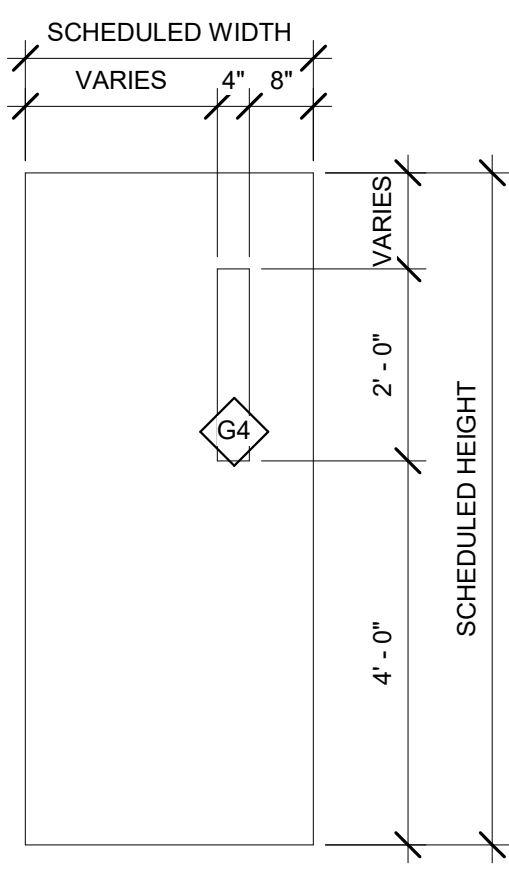
C

B

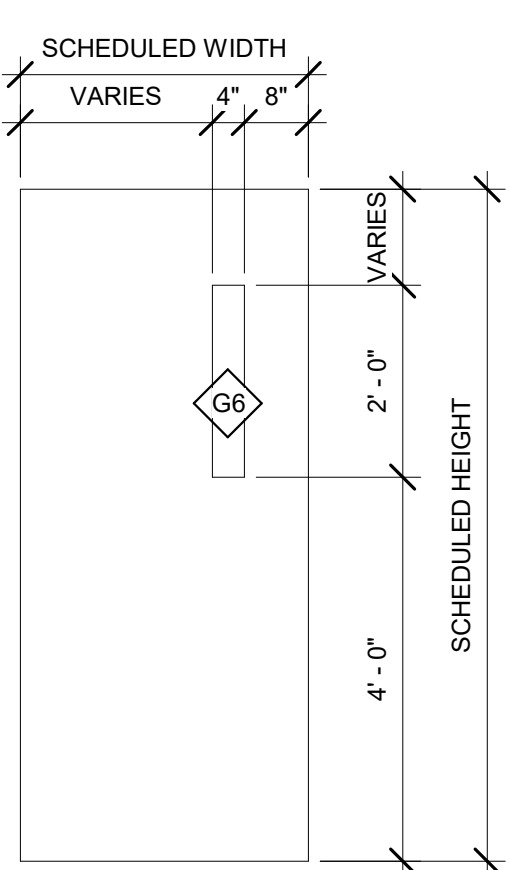
A



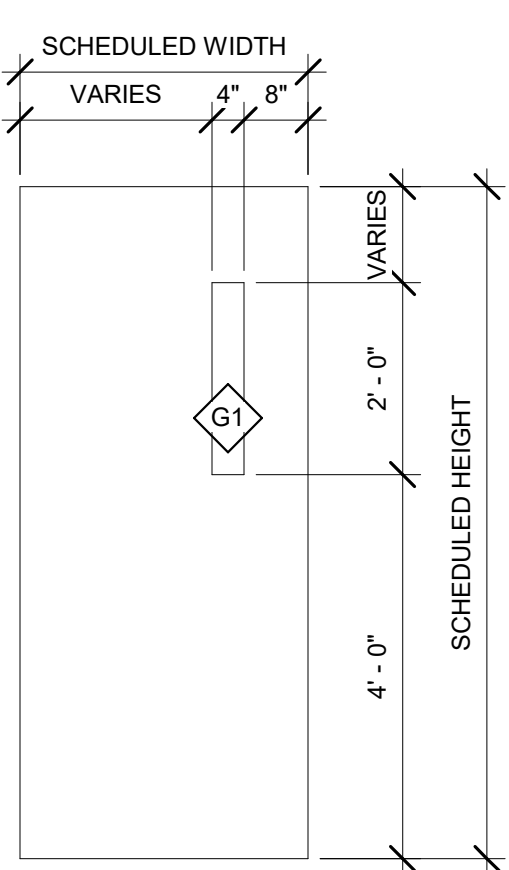
D5 - DOOR TYPE
1/2" = 1'-0"



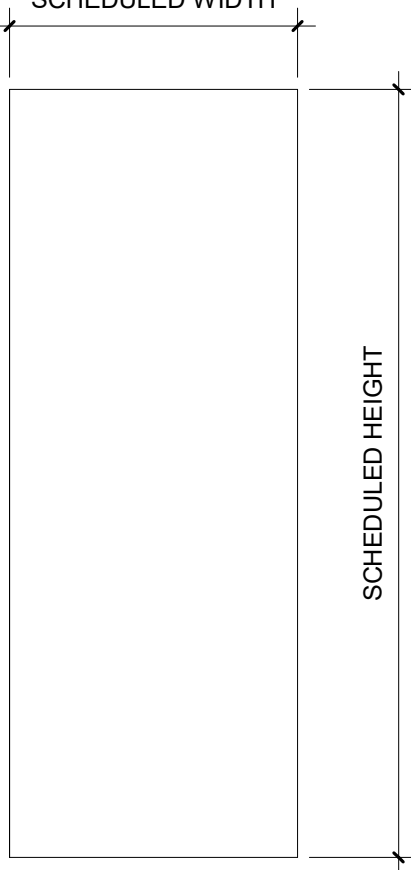
D4 - DOOR TYPE
1/2" = 1'-0"



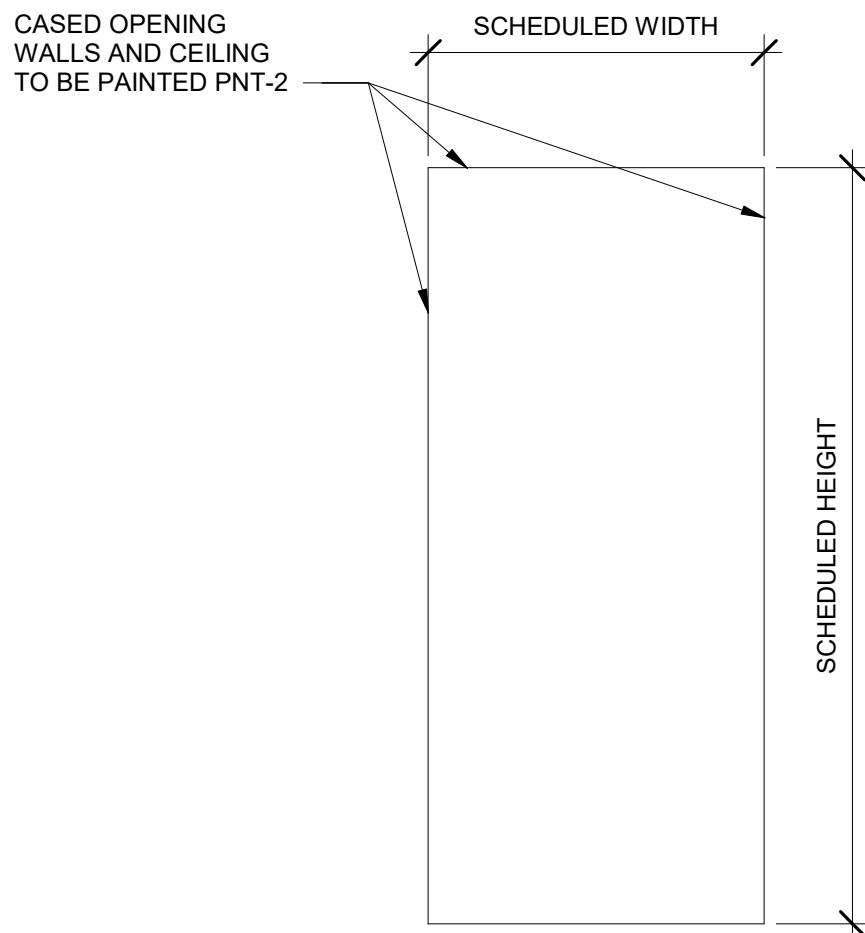
D3 - DOOR TYPE
1/2" = 1'-0"



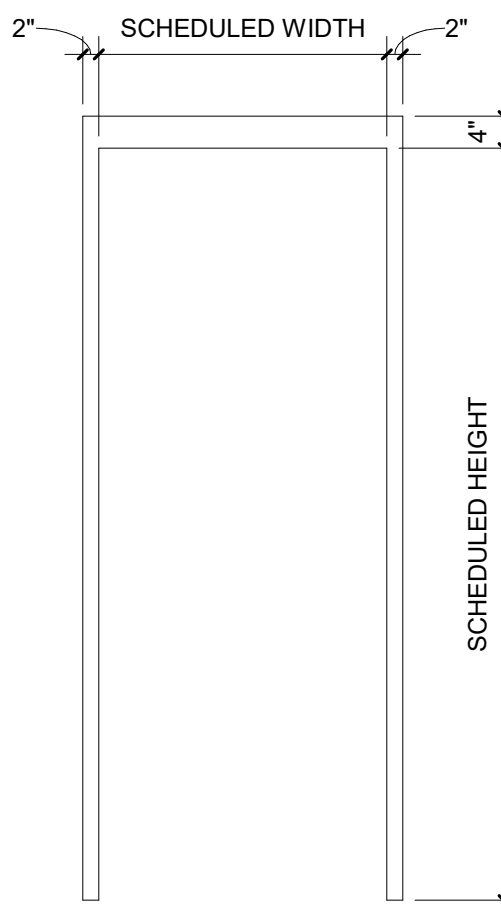
D2 - DOOR TYPE
1/2" = 1'-0"



D1 - DOOR TYPE
1/2" = 1'-0"

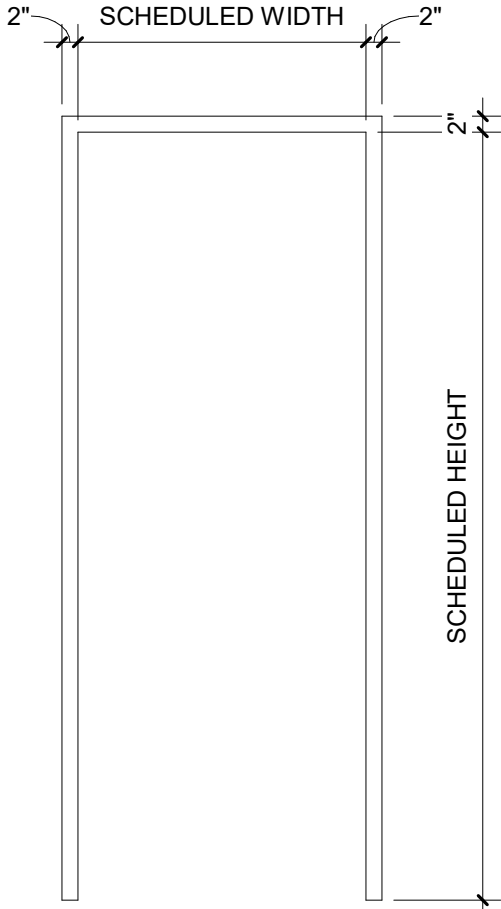


C1 - CASED OPENING TYPE
1/2" = 1'-0"



NOTE: REFER TO WINDOW ELEVATIONS FOR REMAINING FRAMES

F2 - MASONRY FRAME TYPE
1/2" = 1'-0"



NOTE: REFER TO WINDOW ELEVATIONS FOR REMAINING FRAMES

F1 - TYPICAL FRAME TYPE
1/2" = 1'-0"

DOOR GLASS TYPES	
G1	1/4" CLEAR TEMPERED GLASS
G2	1/2" INSULATED LOW E TEMPERED GLASS
G3	45 MINUTE RATED GLASS
G4	LEVEL 7 BULLET RESISTANT CLEAR GLASS

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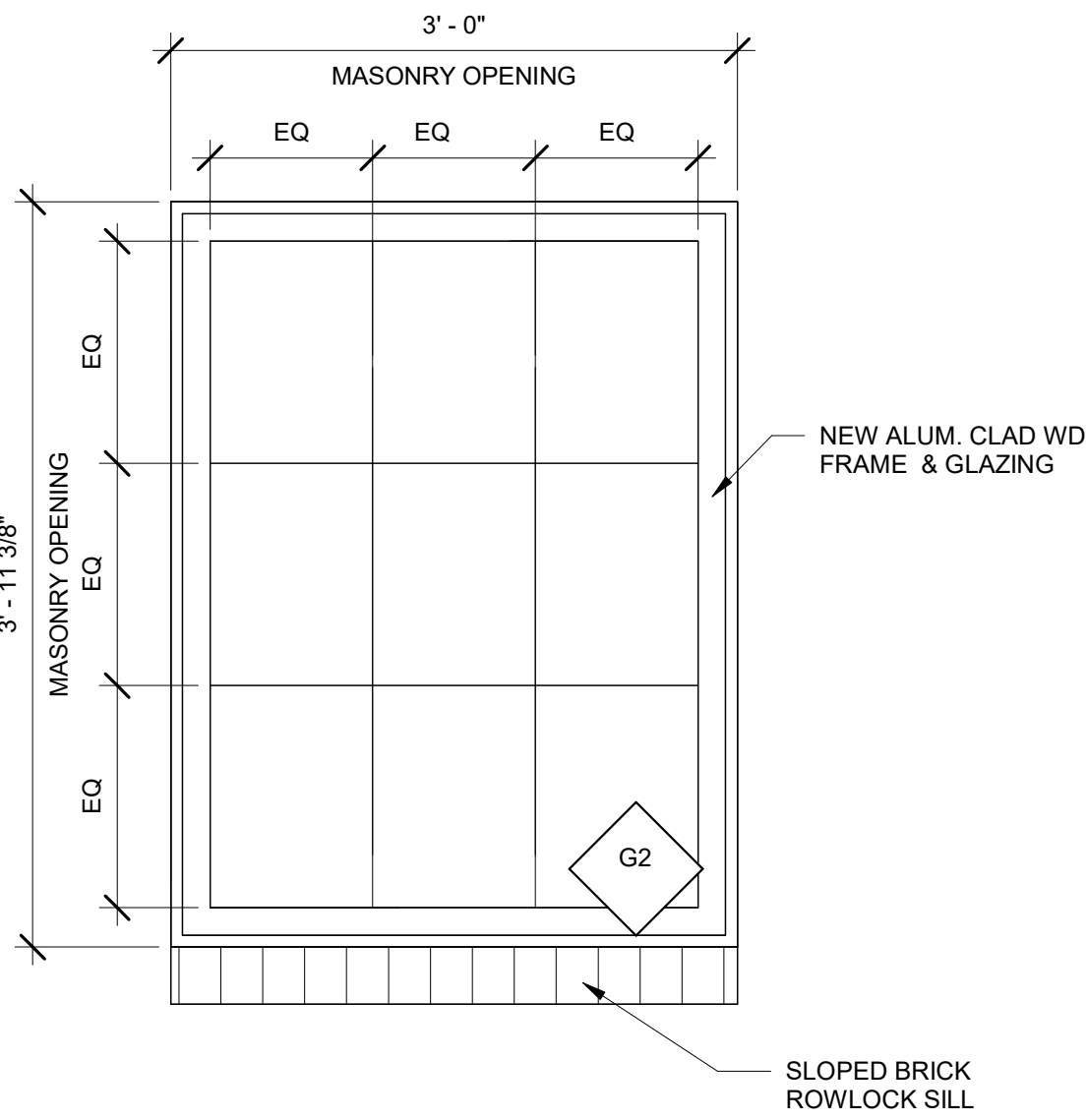
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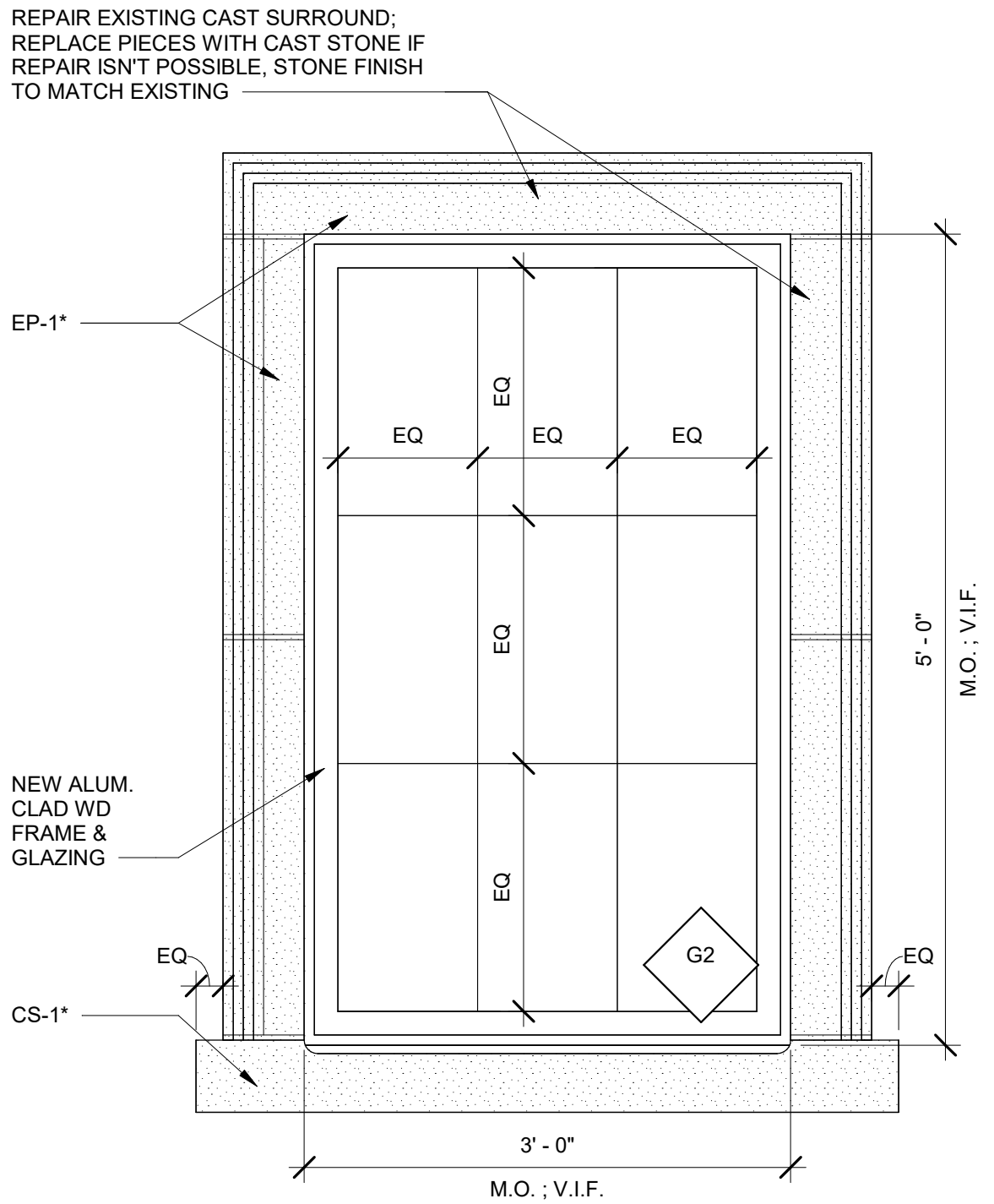
DOOR FRAMES AND ELEVATIONS

A9.02

D

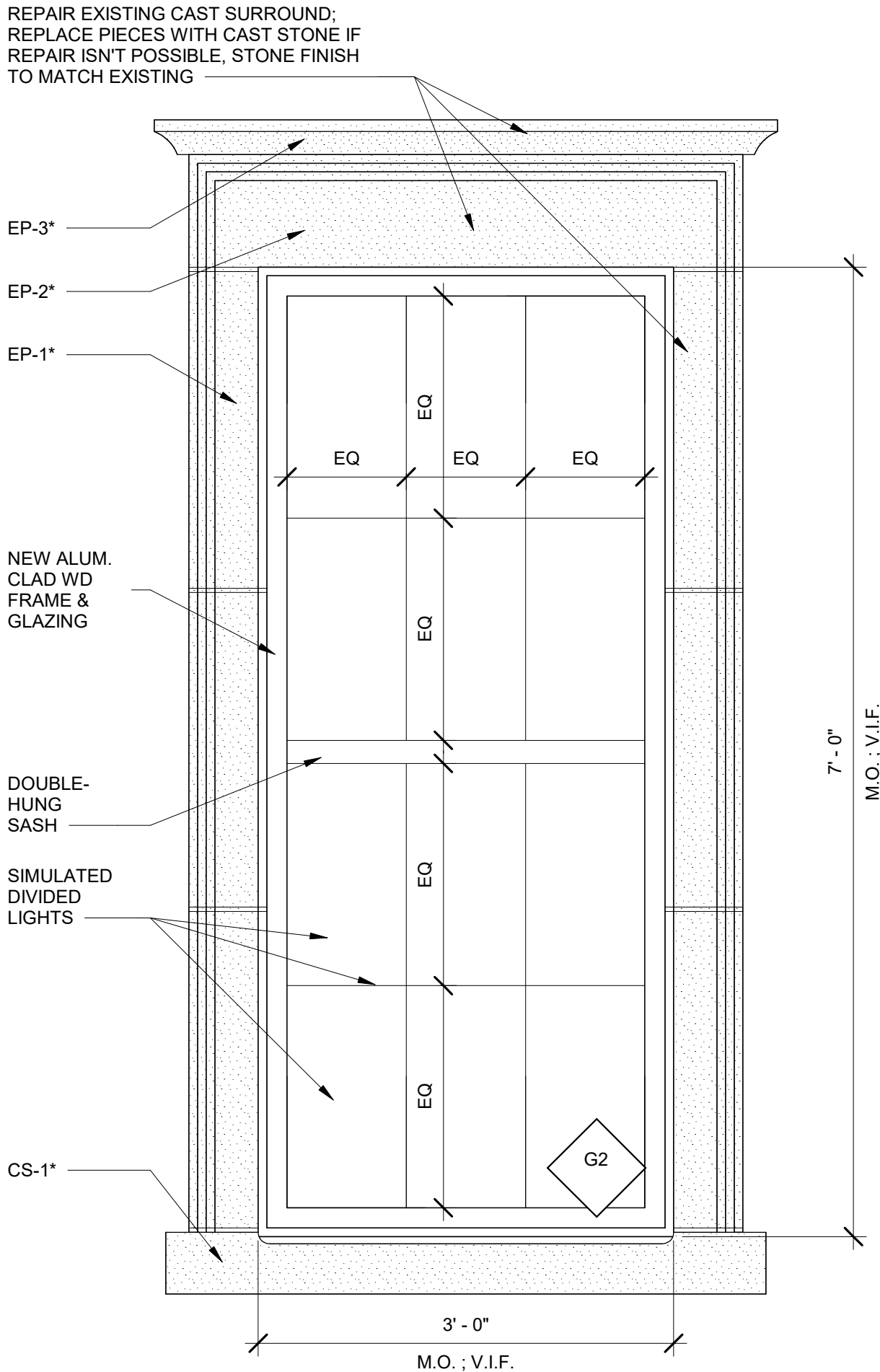


WINDOW A
1" = 1'-0"



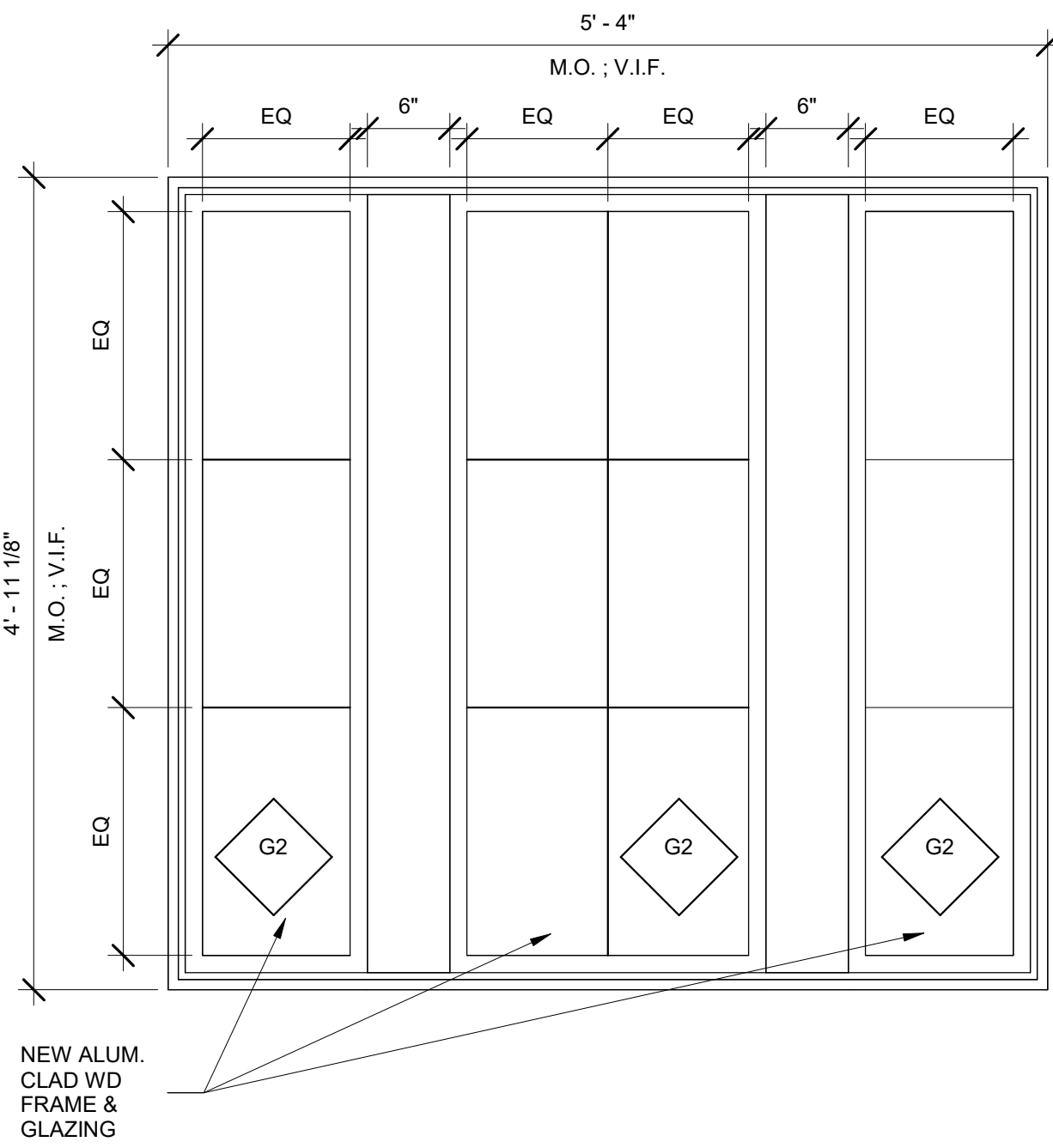
WINDOW B
1" = 1'-0"

*ONLY REPLACE PIECES OF SURROUND IF REPAIR IS NOT POSSIBLE. COORDINATE WITH CLIENT.

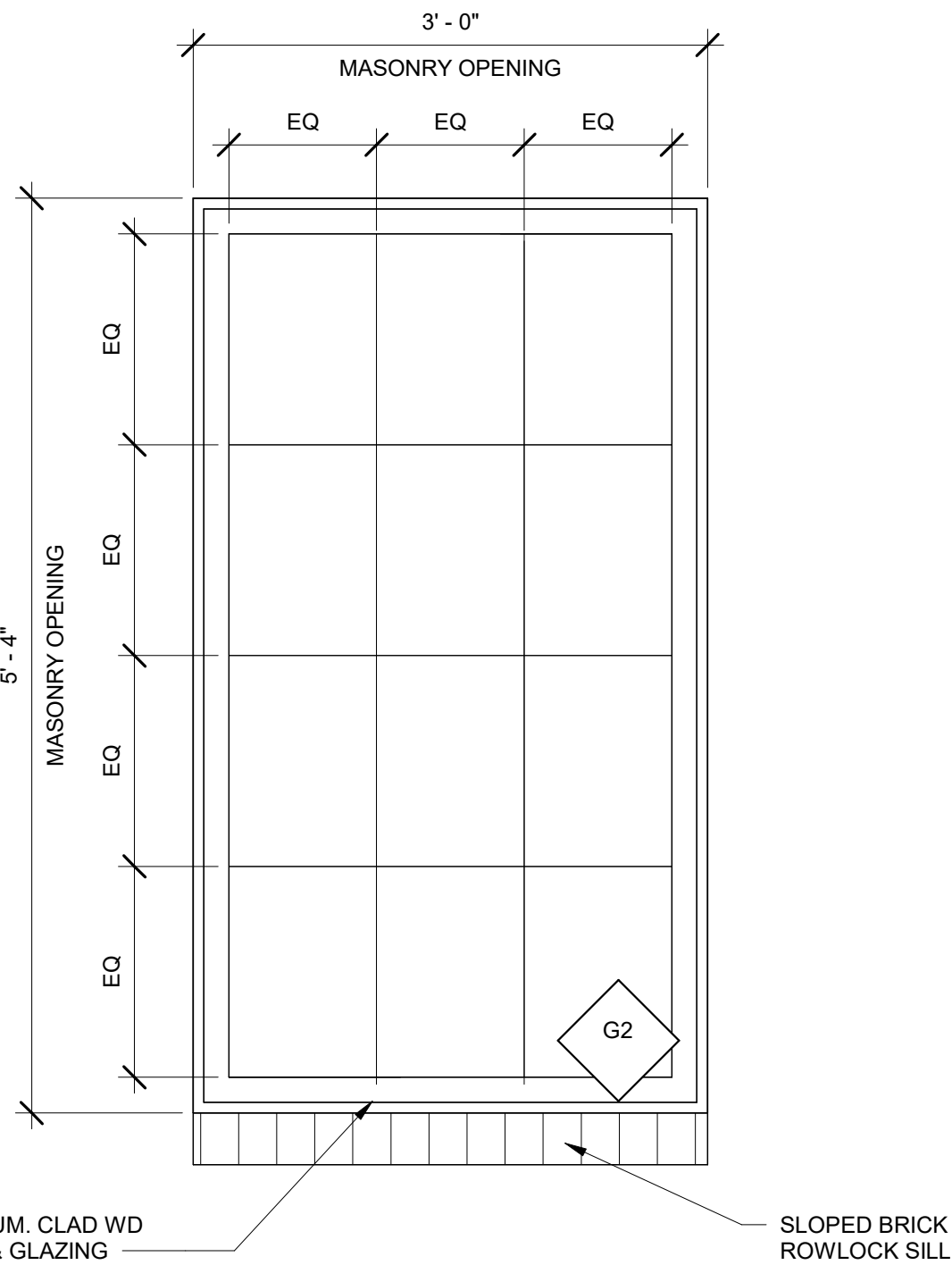


WINDOW C
1" = 1'-0"

*ONLY REPLACE PIECES OF SURROUND IF REPAIR IS NOT POSSIBLE. COORDINATE WITH CLIENT.

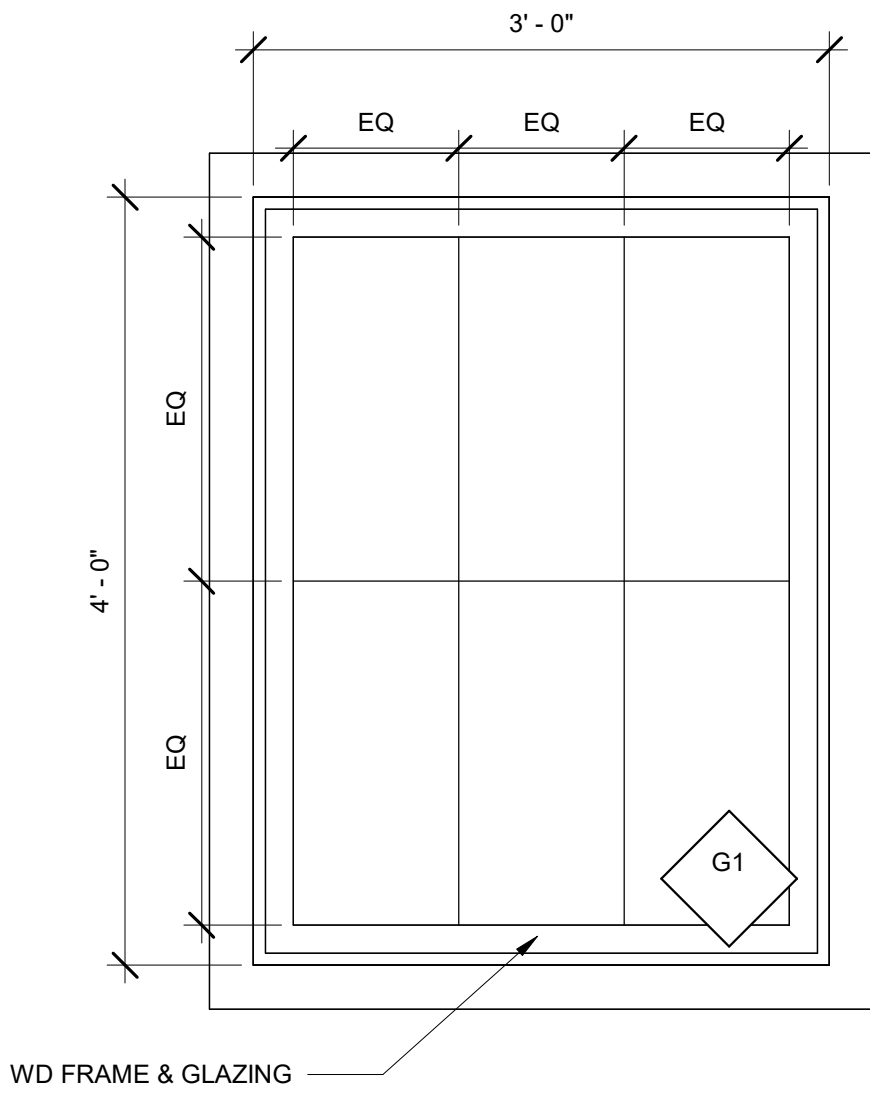


WINDOW D
1" = 1'-0"

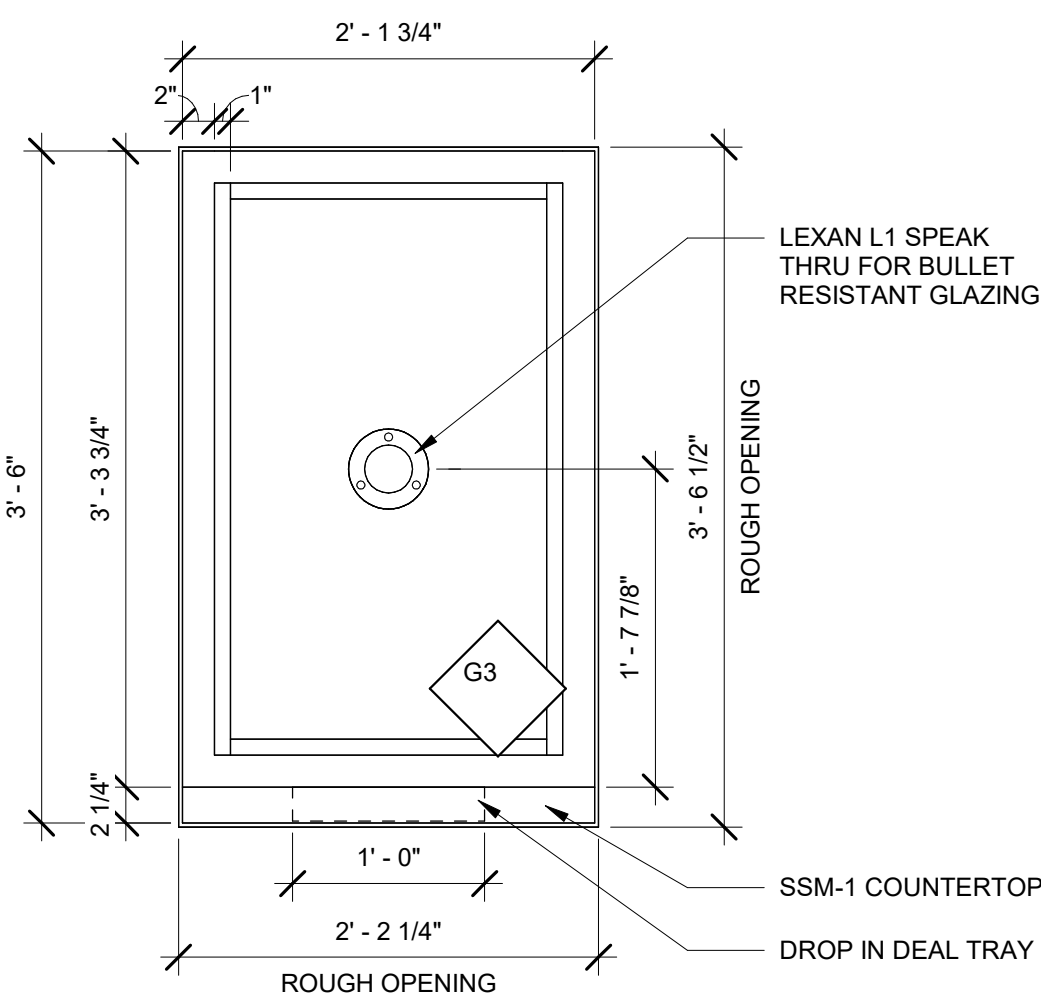


WINDOW E
1" = 1'-0"

B



WINDOW F
1" = 1'-0"



WINDOW G
1" = 1'-0"

WINDOW GLASS TYPES	
G1	1/4" CLEAR GLASS
G2	1" INSULATED LOW E GLASS
G3	LEVEL 1 BULLET RESISTANT CLEAR GLASS

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Date: JULY 7, 2025

WINDOW ELEVATIONS

A9.11

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FINISH SCHEDULE												
Number	Name	Floor Finish	Base Finish	Ceiling Finish	Casework	Countertop	Wall Finish			Window Treatments	Comments	
							North	South	East	West		
BASEMENT												
001	STAIR	EF-1	EF-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		CONTRASTING NOSE STRIPING ON STAIRS
002	IT / ELEC	EF-1	EF-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
003	TOILET	EF-1	EF-1	O.T.S/ PNT-5	-	-	T-3/ T-4/ T-5	PNT-7	PNT-7	PNT-7		
004	ARMORY	EF-1	EF-1	O.T.S/ PNT-5	PLAM-1	PLAM-2	PNT-1	PNT-1	PNT-1	PNT-1		CONCRETE AND CMU WALLS TO RECEIVE PARGE COAT
005	EVIDENCE DROP	EF-1	EF-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		CG-1
006	BAG & TAG	EF-1	EF-1	O.T.S/ PNT-5	PLAM-1	PLAM-2	PNT-1	PNT-1	PNT-1	PNT-1		CONCRETE AND CMU WALLS TO RECEIVE PARGE COAT
007	EVIDENCE	EF-1	EF-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
008	TECH	EF-1	EF-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
009	GUN	EF-1	EF-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
010	HAZ	EF-1	EF-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
011	NARC.	EF-1	EF-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
012	STOR.	EF-1	EF-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
013	SUMP PUMP	EF-1	EF-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		CONCRETE AND CMU WALLS TO RECEIVE PARGE COAT
FIRST FLOOR												
101	LOBBY	T-1/ T-2	WB-1/ WB-2	GWB/ PNT-2/ PNT-4	-	SSM-1	PNT-1/ PNT-2/ PNT-3	PNT-1/ PNT-2/ PNT-3	PNT-1/ PNT-2/ PNT-3	PNT-1/ PNT-2/ PNT-3		SEE INTERIOR ELEVATIONS FOR PNT LOCATIONS
102	TOILET	T-1	TS-1	ACT-1	-	-	T-3/ T-4/ T-5	T-3/ T-4/ T-5	PNT-7	PNT-7		TILE ON WET WALLS ONLY
103	RECEPTION CLERK	CPT-2	RB-1	GWB/ PNT-4	PLAM-1	SSM-1	PNT-1/ PNT-2	PNT-1/ PNT-2	PNT-1	PNT-1		
104	RECORDS / FILE STORAGE	VCT-1	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
105	COPY / WORK	VCT-1	RB-1	ACT-1	PLAM-1	PLAM-2	PNT-1	PNT-1	PNT-1	PNT-1		CG-1
106	WRITE UP	VCT-1	RB-1	ACT-1	PLAM-1	PLAM-2	PNT-1	PNT-1	PNT-1	PNT-1		CG-1
107	CORR.	VCT-1	RB-1	ACT-1	-	-	PNT-1	PNT-1/ PNT-2	PNT-1	PNT-1/ PNT-2		CG-1, SEE INTERIOR ELEVATIONS FOR PNT LOCATIONS
108	BREAK	VCT-1	RB-1	GWB/ PNT-4	PLAM-1	SSM-1	PNT-1	PNT-1/ T-3/ T-4/ T-5	PNT-1	PNT-1/ T-3/ T-4/ T-5		
109	TOILET	T-1	TS-1	ACT-1	-	-	T-3/ T-4/ T-5	PNT-7	PNT-7	PNT-7		TILE ON WET WALL ONLY
110	COMMAND CENTER	CPT-1/ CPT-2	RB-1	ACT-1	-	-	PNT-1/ AT-1	PNT-1/ AT-1	PNT-1/ AT-1	PNT-1/ AT-1		SEE INTERIOR ELEVATIONS FOR AT-1 LOCATIONS
111	RESTROOM	T-1	T-1	ACT-1	-	-	PNT-7	PNT-7	PNT-7/ T-3/ T-4/ T-5	PNT-7		TILE ON SINK WALL ONLY
112	MECH	SC-1	RB-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
113	TRAINING	CPT-1/ CPT-2	RB-1	ACT-1/ GWB/ PNT-4	PLAM-1	SSM-1	PNT-1/ AT-1/ PNT-2	PNT-1/ AT-1	PNT-1/ AT-1	PNT-1	WT-1	CG-1, SEE INTERIOR ELEVATIONS FOR PNT & AT-1 LOCATIONS
114	FUTURE	CPT-2	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
116	STAIR	VCT-1	RB-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		CONTRASTING NOSE STRIPING ON STAIRS
117	VEST.	VCT-1	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1		CG-1
118	CITIZEN / INTERVIEW	CPT-1/ CPT-2	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
119	UNIFORM STORAGE	VCT-1	RB-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
120	JC	SC-1	RB-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
121	FIRE RISER	SC-1	RB-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
NEW SECOND FLOOR												
201	STAIR	VCT-1	RB-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		CONTRASTING NOSE STRIPING ON STAIRS
202	CORR.	VCT-1	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
203	DETECTIVE	CPT-2	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	WT-1	
204	CAPTAIN	CPT-2	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	WT-1	
205	DETECTIVE (FUTURE)	CPT-2	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	WT-1	
206	SERGEANT (FUTURE)	CPT-2	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	WT-1	
207	KITCHENETTE	VCT-1	RB-1	ACT-1	PLAM-1	SSM-1	PNT-1	PNT-1	-	T-3/ T-4/ T-5		
208	LIEUT.	CPT-2	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	WT-1	
209	CHIEF / MEETING	CPT-2	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	WT-1	
210	TOILET	T-1	TS-1	ACT-1	-	-	PNT-7	T-3/ T-4/ T-5	PNT-7	PNT-7		TILE ON WET WALL ONLY
212	MECH	SC-1	RB-1	O.T.S/ PNT-5	-	-	PNT-1	PNT-1	PNT-1	PNT-1		
213	ADMIN / RECORDS CLERK	CPT-2	RB-1	ACT-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	WT-1	

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FINISH NOTES	
1.	ALL NEW WALL AND CEILING FINISHES SHALL COMPLY WITH 903 OF THE IFC AND FLOOR FINISHES SHALL COMPLY WITH 904 OF THE IFC.
2.	GC SHALL BE RESPONSIBLE FOR COMPLYING WITH VOLATILE ORGANIC COMPOUND REGULATIONS FOR ALL FINISH MATERIALS.
3.	GC SHALL PROVIDE GWB FINISH IN COMPLIANCE WITH GYPSUM ASSOCIATION GA214-96.
4.	FLOOR SURFACE SHALL BE CLEAN AND CLEAR OF DEBRIS OR MATERIAL PRIOR TO CONSTRUCTION. FLOAT AND SCRAPE TO PROVIDE LEVEL SURFACE FOR NEW SPECIFIED FINISH.
5.	CONTRACTOR SHALL PROVIDE NECESSARY SHORING OR TEMPORARY SUPPORT AS REQUIRED.
6.	ALL CUTTING AND PATCHING WORK SHALL BE DONE IN A NEAT MANNER WITH QUALITY WORKMANSHIP AND IN ACCORDANCE WITH A PROFESSIONAL STANDARD OF CARE.
7.	ALL FINISHES SPECIFIED ARE APPROVED BY THE OWNER/DEVELOPER; NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PROPER APPROVAL FROM OWNER/DEVELOPER & INTERIOR DESIGNER IN WRITING.
8.	REFER TO THE CONSTRUCTION PLANS DIMENSIONS FOR ALL PRELIMINARY FINISH MATERIAL TAKE-OFFS. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDER PLACEMENT.
9.	UNLESS NOTED OTHERWISE (U.N.O.), PROVIDE SATIN ALUMINUM FINISH TRANSITION STRIPS BY SCHLUTER OR EQUAL AT ALL FLOOR FINISH TRANSITIONS. VINYL AND MARBLE THRESHOLDS WILL NOT BE ACCEPTED. U.N.O., TRANSITION FINISHES AT CENTER OF DOOR, FLOAT OR FEATHER ALL FLOORING MATERIALS AS REQUIRED TO ENSURE A LEVEL TRANSITION BETWEEN MATERIALS OF VARYING THICKNESS. CHANGES IN LEVEL SHALL BE 1/4" MAXIMUM VERTICAL AND 1/2" MAXIMUM WITH A 1:2 BEVEL.
10.	a. SIMILAR HEIGHT TRANSITIONS = SCHLUTER SCHIENE, SATIN ANODIZED ALUMINUM
11.	i. TILE TO CARPET
12.	ii. TILE TO WOOD
13.	iii. TILE TO RUBBER SPORTS FLOOR
14.	b. SLOPED TRANSITIONS = SCHLUTER RENO-TK OR RENO U. SATIN ANODIZED ALUMINUM
15.	c. CARPET TO LVT = SCHLUTER RENO-TK OR RENO U. SATIN ANODIZED ALUMINUM
16.	i. ALTERNATE: ROPPE SLIM PROFILE CARPET REDUCER STRIP, COLOR TBD
17.	d. TOP OF WALL TILE TRANSITION IF NOT FULL HEIGHT = SCHLUTER JOLLY, SATIN ANODIZED ALUMINUM
18.	e. WALL TILE TO CONCRETE FLOOR = SCHLUTER DILEX AHKA, SATIN ANODIZED ALUMINUM
19.	f. FLOOR FINISH TO CONCRETE FLOOR = SCHLUTER RENO-U. COMES IN VARYING HEIGHTS SO MUST BE IN ADA HEIGHT, SATIN ANODIZED ALUMINUM
20.	TRANSITION FINISHES SHALL OCCUR AT CENTER OF DOOR OPENING OR AS INDICATED ON FLOOR PLANS.
21.	CONTINUE FLOORING AND WALL BASE MATERIAL AS SCHEDULED UNDER MILLWORK AND INTO ALL MILLWORK RECESSES.
22.	WALLS THAT CONTAIN MECHANICAL VENTS, ACCESS DOORS, ELECTRICAL PANELS, ETC., SHALL BE PAINTED THE COLOR OF THE WALL IN WHICH IT IS LOCATED.
23.	CEILING TRANSITIONS SHALL BE PAINTED TO MATCH EXISTING CEILING COLOR.
24.	ALL ELECTRICAL OUTLET COVERS & PLUGS SHALL MATCH AND BE WHITE IN COLOR WITH WHITE PLUGS. DARK WALLS SHALL BE BLACK WITH BLACK PLUGS. DECORATIVE WALLS (SUCH AS TILE) TO BE STAINLESS STEEL WITH GRAY PLUGS. FLOORBOXES TO BE METAL, NOT PLASTIC, SATIN ALUMINUM FINISH.
25.	ALL SURFACES RECEIVING PAINT, VARNISH, OR WALL COVERING SHALL BE PREPARED ACCORDING TO MANUFACTURER'S SPECIFICATIONS FOR APPLIED FINISH PRIOR TO INSTALLATION OR APPLICATION OF FINISH MATERIAL WHETHER GYPSUM BOARD, CMU, BRICK, ETC. PAINTER TO DETERMINE CORRECT PAINT TYPE FOR INSTALLATION.
26.	PAINT INSTALLATION SHALL CONSIST OF MIN. ONE COAT OF PRIMER AND MIN. TWO COATS OF SPECIFIED PAINT TO PRODUCE A SATISFACTORY FINISH APPEARANCE. INSTALLATION OF ALL PAINT MATERIALS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CORRECT PAINT TYPE AND FINISH TO BE DETERMINED BY PAINTER FOR GYPSUM BOARD, CMU, BRICK, ETC. TYPE WALLS.
27.	a. U.N.O., ALL PTD. INTERIOR HOLLOW METAL FRAMES SHALL RECEIVE A WATERBASED ALKYD SEMI-GLOSS PAINT WITH LOW VOC'S. COLOR SHALL MATCH EXISTING ADJACENT WALL PAINT COLOR
28.	b. U.N.O., ALL GWB CEILINGS SHALL RECEIVE FLAT FINISH.
29.	c. U.N.O., ALL EXPOSED CEILINGS SHALL RECEIVE FLAT FINISH. ALL CONDUIT, PIPING AND HVAC DUCT TO BE PAINTED TO MATCH CEILING.
30.	d. U.N.O., ALL GWB WALLS SHALL RECEIVE EGGSHELL FINISH.
31.	e. U.N.O., ALL DOORS SHALL BE PAINTED: INTERIOR SEMI-GLOSS AND EXTERIOR TO BE EXTERIOR GRADE.
32.	17. DOORS: SEE ARCHITECTURAL DOOR SCHEDULE
33.	a. ALL DOORS SHALL BE LEVER SET IN SATIN NICKEL
34.	b. ALL GLASS DOORS SHALL HAVE ROCKWELL NEOTEK OFFSET PULLS, 10"L, WITH SQUARE ENDS.
35.	c. ALL DOORS AND SIDELIGHTS TO RECEIVE 1" FROSTED WINDOW FILM BAND BY GC.
36.	d. MILLWORK CABINET DOOR PULLS SHALL HAVE AMEROCK BLACKROCK 5", SATIN NICKEL
37.	18. ALL FLOORING MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. INSTALLATION SHALL BE FREE OF ABRASION, BUBBLES, CRACKS, AND OTHER IMPERFECTIONS. SEAMING SHALL BE VISIBLY CONCEALED.
38.	19. PROVIDE WATERPROOF AND CRACK ISOLATION MEMBRANE IN ALL AREAS RECEIVING PORCELAIN FLOOR TILE. PROVIDE APPROPRIATE EXPANSION AND CONTROL JOINTS PER CURRENT T.C.N.A. RECOMMENDATIONS. REFER TO T.C.N.A. EJ-171-09 FOR MOVEMENT JOINTS - VERTICAL AND HORIZONTAL.
39.	20. TILE INSTALLATION SHALL BE SLOPED TO DRAINS, TILE AND SUBSTRATE SHALL BE INSTALLED PER TCNA GUIDELINES; MOISTURE RESISTANT GYPBOARD SHALL BE USED BEHIND WALLS THAT ARE WET WALLS.
40.	21. ALL FLOOR GROUT TO BE STAR QUARTZ GROUT.
41.	22. G.C. TO FINISH GWB TO FINISHED FLOOR SO THAT BASE IS APPLIED TO A SMOOTH SURFACE.
42.	23. FLOORING PATTERN HATCHING IS FOR MATERIAL, INFORMATION AND DESIGN INTENT ONLY. CONTRACTOR SHALL SUBMIT FLOORING SEAMING / PATTERN LAYOUT DIAGRAM TO INTERIOR DESIGNER FOR REVIEW AND APPROVAL PRIOR TO ORDERING AND INSTALLATION. INDICATE ON CARPET SEAMING DIAGRAM THE DIRECTION OF PATTERN INSTALLATION. CUT TILES LESS THAN 1/3 OF A FULL SIZE PIECE WILL NOT BE ACCEPTED. COORDINATE WITH ARCHITECT AS REQUIRED TO AVOID PORCELAIN TILE "SLIVERS"
43.	24. CEILINGS SHALL BE INSTALLED PER PLAN DIAGRAMS. CEILINGS SHALL BE INSTALLED TO AVOID TILE "SLIVERS". CUT TILES LESS THAN 6" WILL NOT BE ACCEPTED.
44.	25. REFER TO INTERIOR ELEVATIONS FOR ALL MILLWORK FINISH DESIGNATIONS.
45.	26. GC SHALL SUBMIT FINISH SAMPLES TO INTERIOR DESIGNER AND ARCHITECT FOR REVIEW PRIOR TO ORDER AND INSTALLATION.

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MATERIALS LEGEND					
DESIGNATION	FINISH TYPE	MANUFACTURER	STYLE NAME / NUMBER	COLOR NAME / SIZE	COMMENTS
ACT-1	ACOUSTICAL CEILING TILE	USG	OLYMPIA MICRO ACOUSTICAL PANELS #4210	WHITE/ 24"X24"	FINELINE BEVEL TEGULAR, 0.60 NRC/ 35 CAC. SEE FINISH SCHEDULE AND RCP FOR LOCATION.
AT-1	ACOUSTIC TREATMENT	ARTIZIN	SLATS/ VERTICAL	CUSTOM OMBRE PRINT. INDIGO TO VINTAGE INDIGO	DOUBLE 3/8" CORE THICKNESS, 0.60 NRC. Z-CLIP MOUNTING SYSTEM. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATION.
CPT-1	CARPET TILE	MILLIKEN	NEW GROUND	NEW107 PEBBLE/ 9.84"X39.4"	INSTALL LAID QUARTER TURN PLANKS, PATTERN RANDOM. SEE FINISH SCHEDULE AND FINISH FLOOR PLAN FOR LOCATION AND DETAILED LAYOUTS.
CPT-2	CARPET TILE	MILLIKEN	MAJOR FREQUENCY: ONE VIBRATION	VBK218-106 PERCEVE/ 9.84"X39.4"	INSTALL LAID QUARTER TURN PLANKS, PATTERN RANDOM. SEE FINISH SCHEDULE AND FINISH FLOOR PLAN FOR LOCATION AND DETAILED LAYOUTS.
VCT-1	VINYL COMPOSITE TILE	AHF CONTRACT	ILIAD	CR008 CRYSTAL GRAY/ 12"X12"	INSTALL LAID QUARTER TURN. SEE FINISH SCHEDULE AND FINISH FLOOR PLAN FOR LOCATIONS AND DETAILS.
EF-1	EPOXY FLOORING	TBD	TBD	CUSTOM TBD	SEE FINISH SCHEDULE AND FINISH FLOOR PLAN FOR LOCATIONS AND DETAILS. INTEGRATED COVE BASE.
PLAM-1	PLASTIC LAMINATE	EGGER	H1307 ST19	BROWN WARMIA WALNU/1/ TFL	EURODECKER TFL INSTALLED ON VERTICAL CASEWORK. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATION AND DETAILS.
PLAM-2	PLASTIC LAMINATE	EGGER	U779 ST7	FOG GREY/ HPL	HPL INSTALLED COUNTERTOP SURFACE ONLY. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATION AND DETAILS.
PNT-1	PAINT	SHERWIN WILLIAMS	EGGSHELL	SW7015 REPOSE GRAY	FIELD PAINT, TYP. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATION.
PNT-2	PAINT	SHERWIN WILLIAMS	EGGSHELL	SW9178 IN THE NAVY	ACCENT PAINT ON ALL CASE OPENINGS INNER WALLS AND CEILING. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATIONS AND DETAILS.
PNT-3	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW7009 PEARLY WHITE	ACCENT TRIM IN LOBBY. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATION AND DETAILS.
PNT-4	PAINT	SHERWIN WILLIAMS	FLAT	SW7009 PEARLY WHITE	GWB CEILING PAINT, TYP. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATION.
PNT-5	PAINT	SHERWIN WILLIAMS	FLAT	SW7068 GRIZZLE GRAY	EXPOSED CEILING AND DOOR PAINT. SEE FINISH AND DOOR SCHEDULE FOR LOCATION.
PNT-6	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW9163 TIN LIZZIE	DOOR TRIM PAINT TYP. SEE DOOR SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATION.
PNT-7	PAINT	SHERWIN WILLIAMS	EPOXY	SW7015 REPOSE GRAY	EPOXY PAINT FOR RESTROOM WALLS ONLY, TYP. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATION.
RB-1	RUBBER BASE	ROPPE	VINYL WALL BASE	669 BATTLESHIP/ 4"	SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATION AND DETAILS.
SC-1	SEALED CONCRETE	TBD	TBD	TBD	SEE FINISH SCHEDULE AND FINISH FLOOR PLANS FOR LOCATION AND DETAILS.
SSM-1	SOLID SURFACE COUNTERTOP	WILSONART	SOLID SURFACE	POWDER WHITE/ 9230SS	COUNTERTOP SURFACES AND NEW WINDOW SILLS. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATION AND DETAILS.
T-1	FLOOR TILE	DALTILE	VOLUME 1.0	ELECTRIC MOSS VL79/ 12X12	FIELD TILE, SEE FINISH FLOOR PLANS FOR LOCATION AND DETAILS. GROUT TBD.
T-2	FLOOR TILE	DALTILE	PORTFOLIO VIVID	SEA BREEZE/ 12X24	ACCENT TILE TO BE COORDINATED WITH T-1 IN LOBBY SPACES ONLY. SEE FINISH FLOOR PLANS FOR LOCATION AND DETAILS. GROUT TBD
T-3	WALL TILE	DALTILE	COLOR WHEEL LINEAR	MATTE DESERT GRAY X714/ 4X12	FIELD TILE SEE ELEVATIONS FOR DESIGN PATTERN LAYOUT. GROUT TBD
T-4	WALL TILE	DALTILE	COLOR WHEEL LINEAR	GLOSSY DESERT GRAY X114/ 4X12	ACCENT TILE SEE ELEVATIONS FOR DESIGN PATTERN LAYOUT. GROUT TBD
T-5	WALL TILE	DALTILE	COLOR WHEEL LINEAR	MATTE NAVY K189/ 4X12	ACCENT TILE SEE ELEVATIONS FOR DESIGN PATTERN LAYOUT. GROUT TBD
CG-1	CORNER GUARD - WALL PROTECTION	ACROVYN	LG SERIES	CLEAR LG-034	SEE FINISH SCHEDULE FOR LOCATIONS.
TS-1	FLOOR/WALL TRANSITION STRIP	SCHLUTER	DILEX-AHK	ANODIZED ALUMINUM/ 3/8"	ALL BATHROOM BASE/ FLOOR TRANSITIONS WITH TILE. SEE FINISH SCHEDULE FOR LOCATIONS AND DETAILS.

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JULY 7, 2025



CANTON POLICE STATION RENO

No.	Description	Date

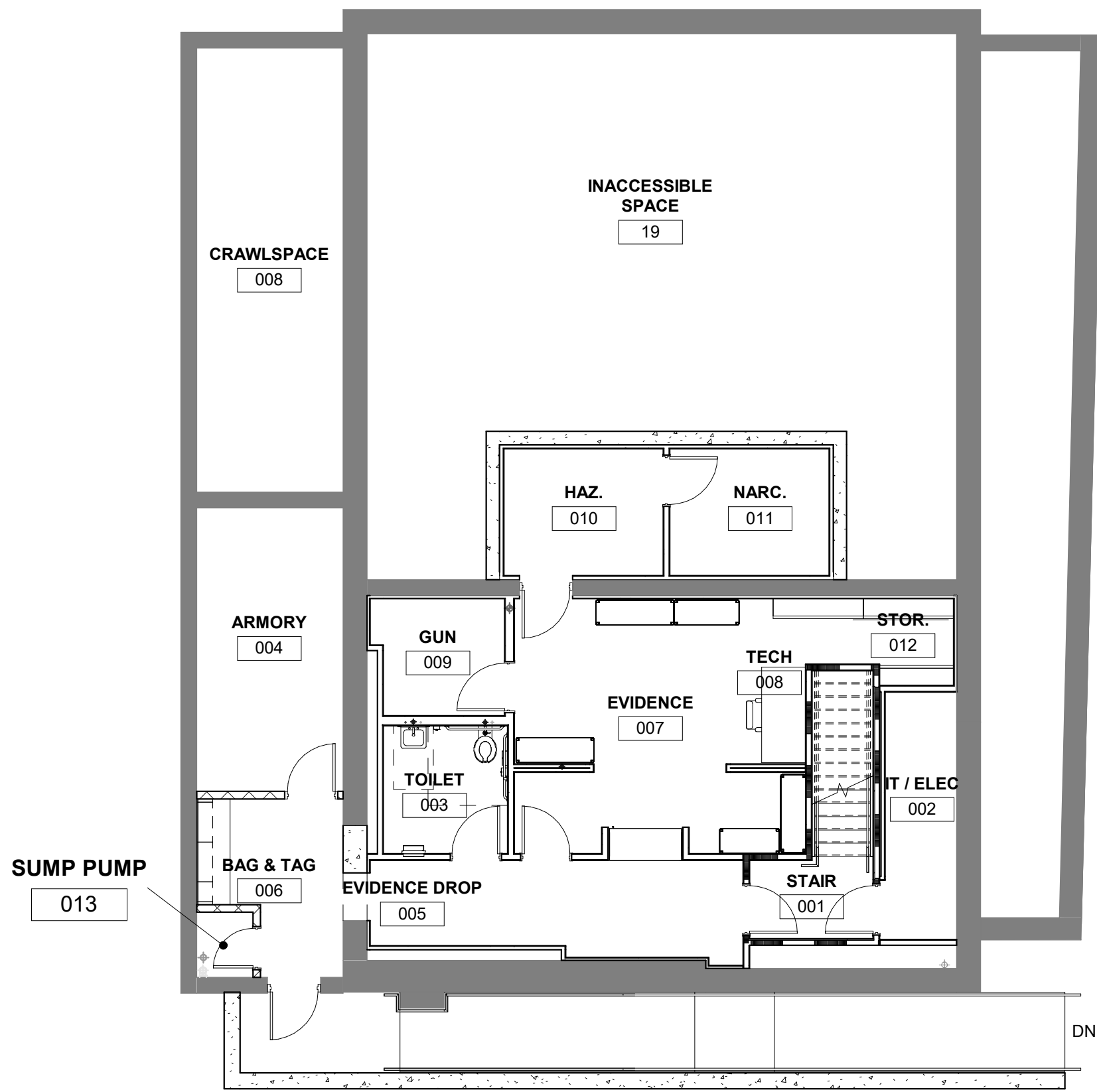
Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
Date: JULY 7, 2025

FINISH SCHEDULE

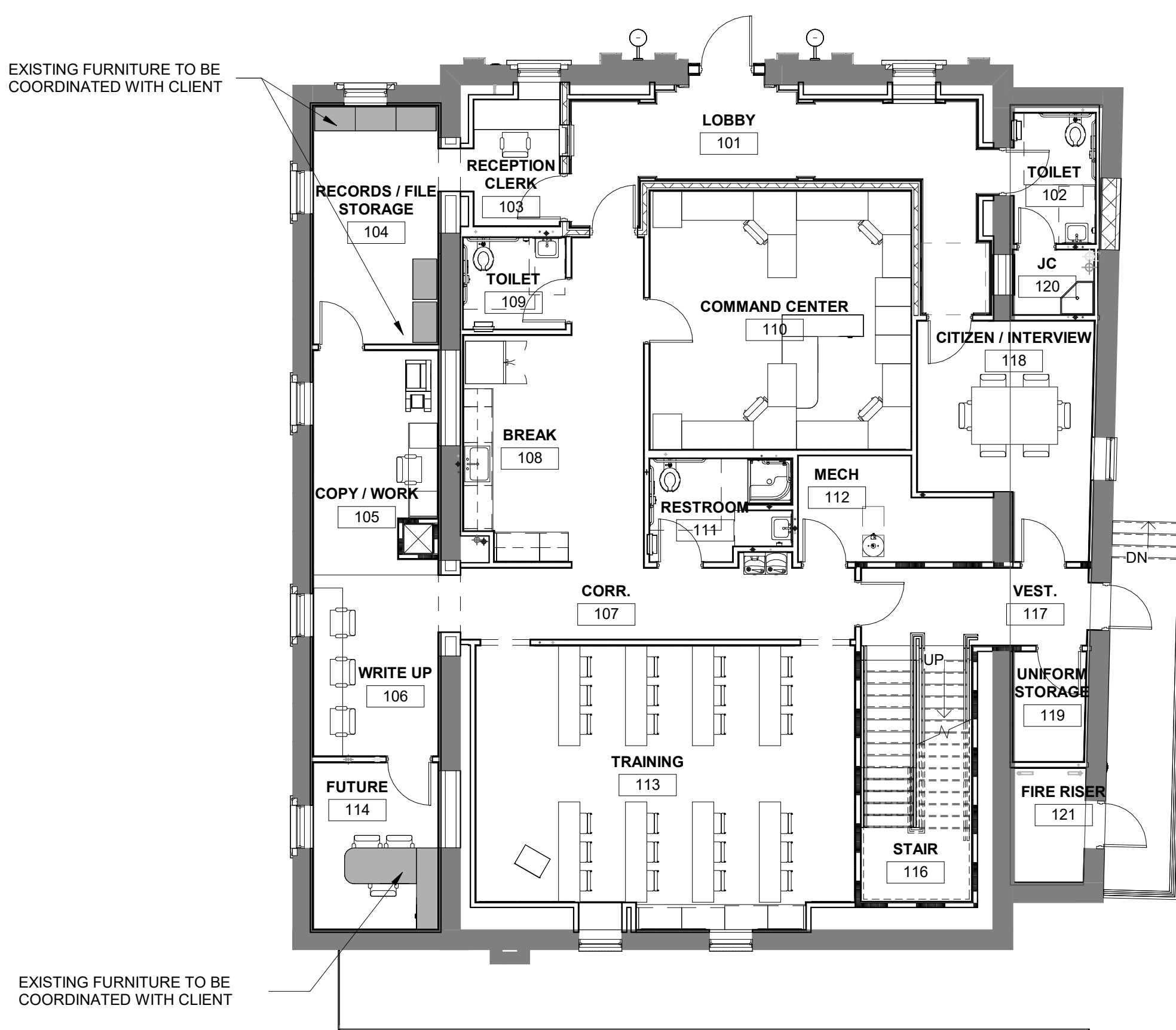
A9.21

D

C



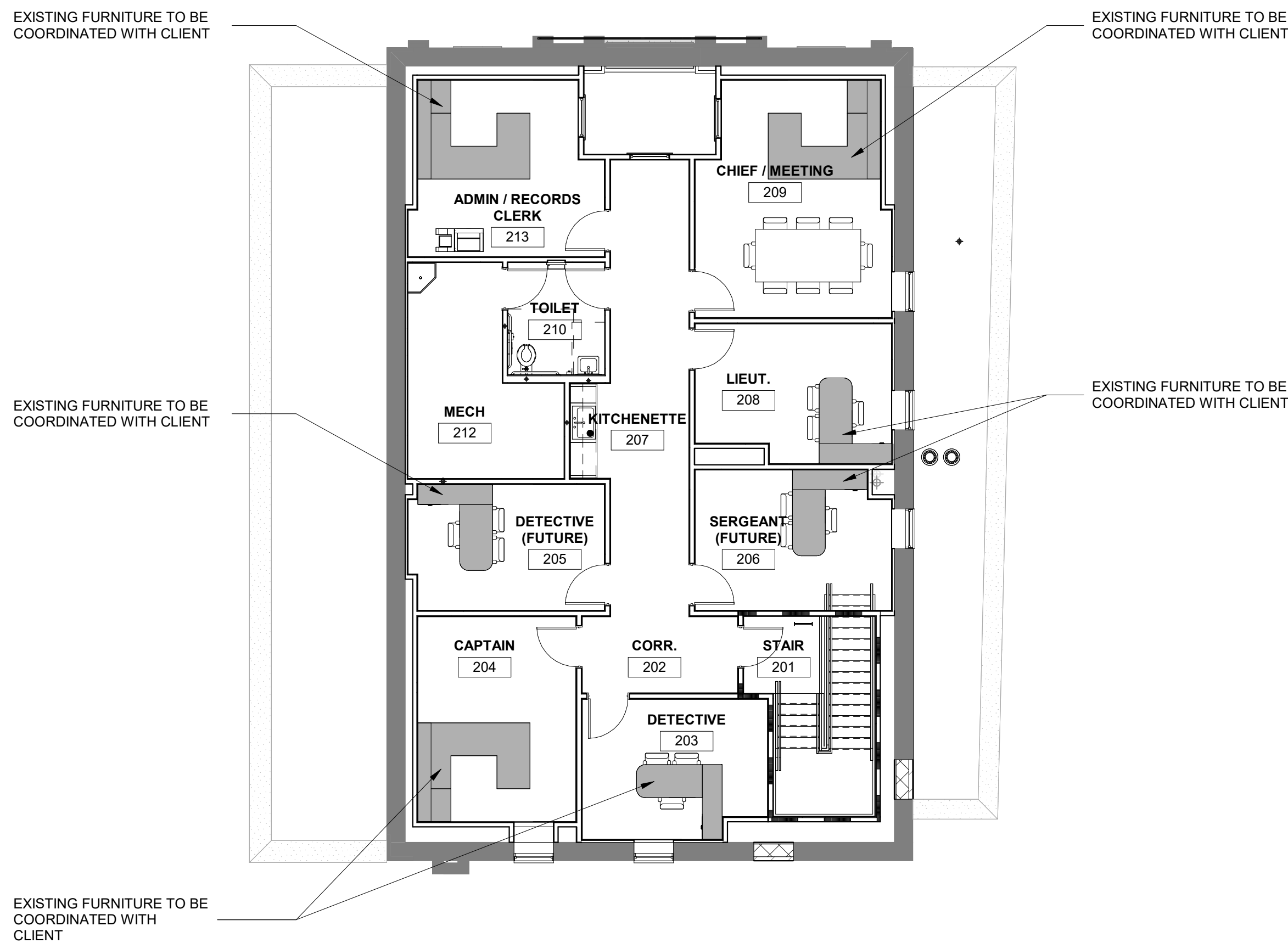
C1 BASEMENT POSSIBLE FURNITURE PLAN
1/8" = 1'-0"



C3 FIRST FLOOR POSSIBLE FURNITURE PLAN
1/8" = 1'-0"

B

A



A1 SECOND FLOOR POSSIBLE FURNITURE PLAN
1/8" = 1'-0"

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JULY 7, 2025



CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
Date: JULY 7, 2025

POSSIBLE FURNITURE LAYOUTS

A10.01

LEGEND

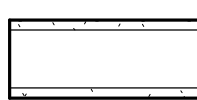
TRUE NORTH



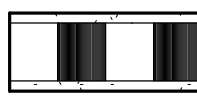
PLAN NORTH



EXISTING WALL TO REMAIN

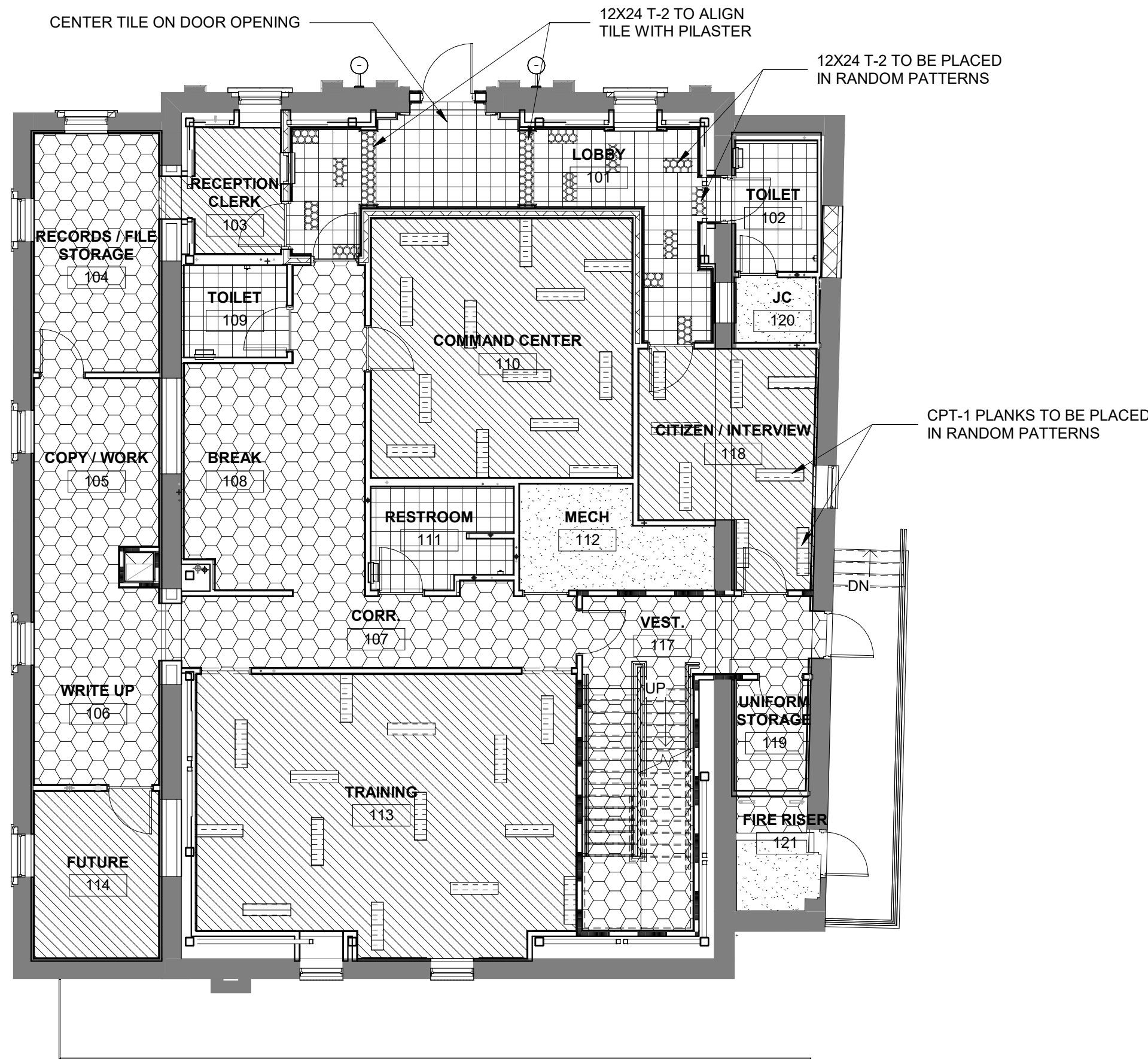


NEW WALL



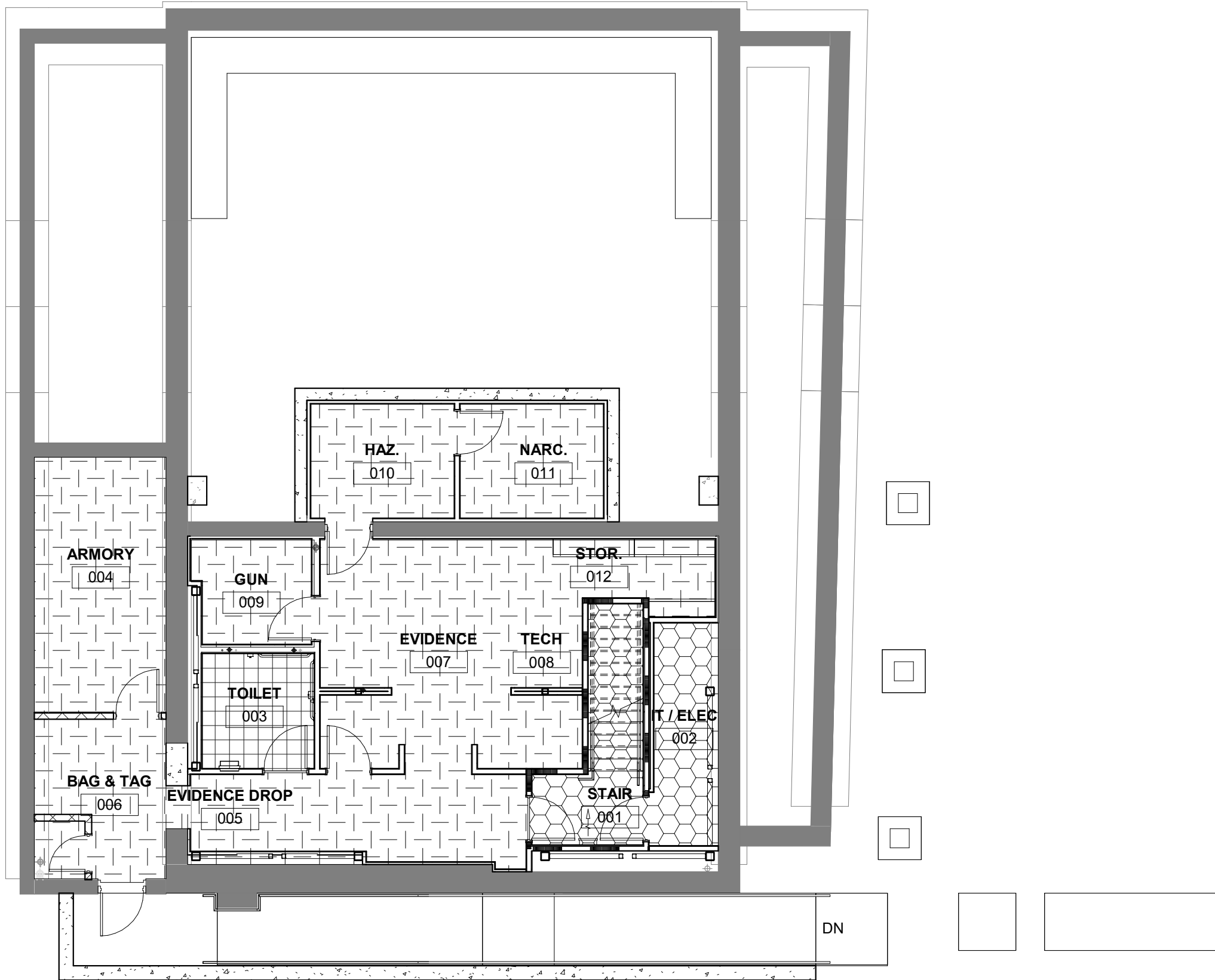
1 HOUR FIRE RATED PARTITION

D



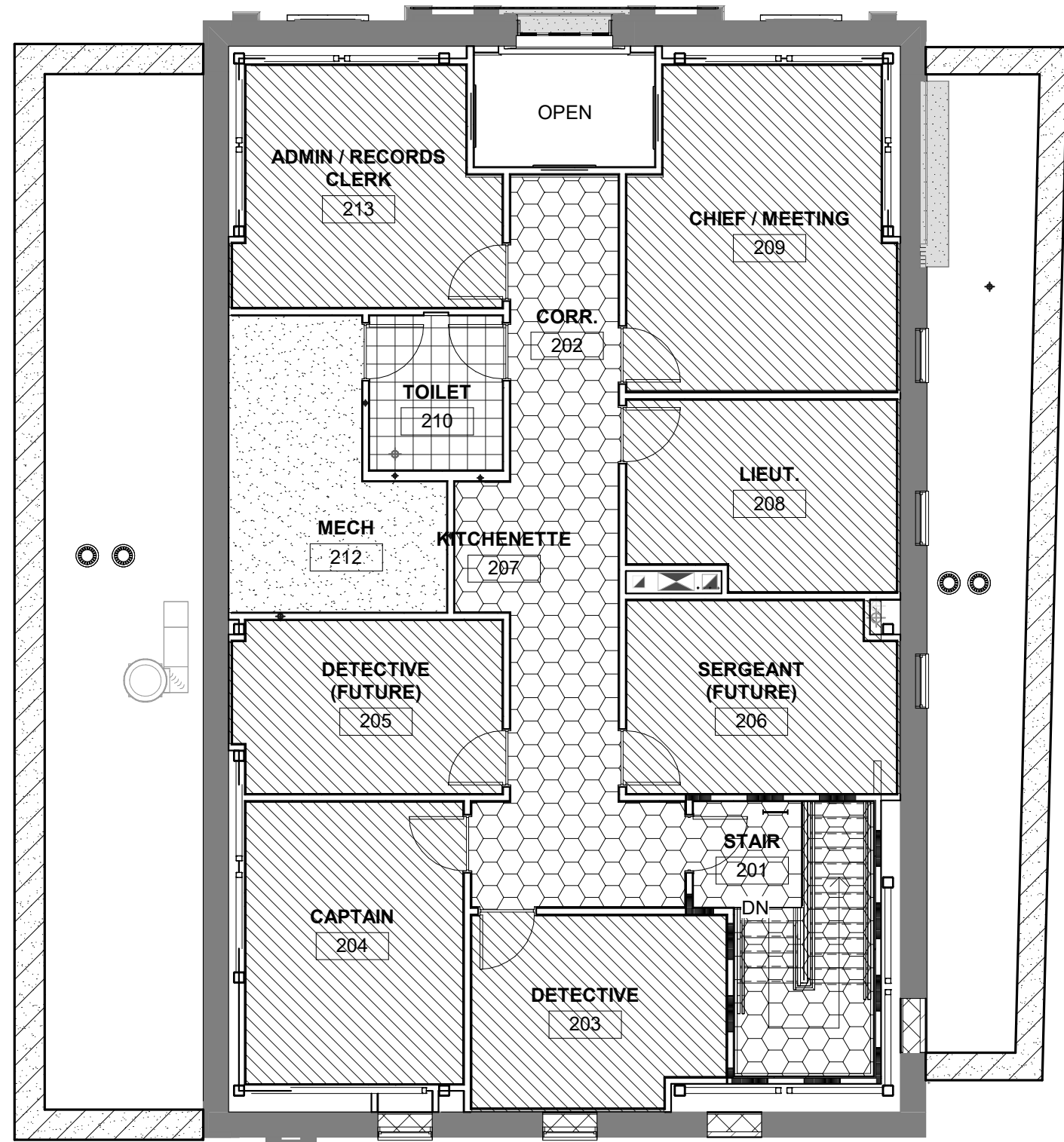
C1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

C



C3 BASEMENT FINISH PLAN
1/8" = 1'-0"

B



A1 SECOND FLOOR FINISH PLAN
1/8" = 1'-0"

A

FLOOR FINISH LEGEND

	T-1
	T-2, SEE RANDOM PATTERN
	VCT-1
	EF-1
	CPT-1, SEE RANDOM PATTERN
	CPT-2
	SC-1

NOTES

1. SEE MATERIAL LEGEND FOR PRODUCT INFORMATION

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JULY 7, 2025



CANTON POLICE STATION RENO

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FINISH PLANS

A10.21

LEGEND

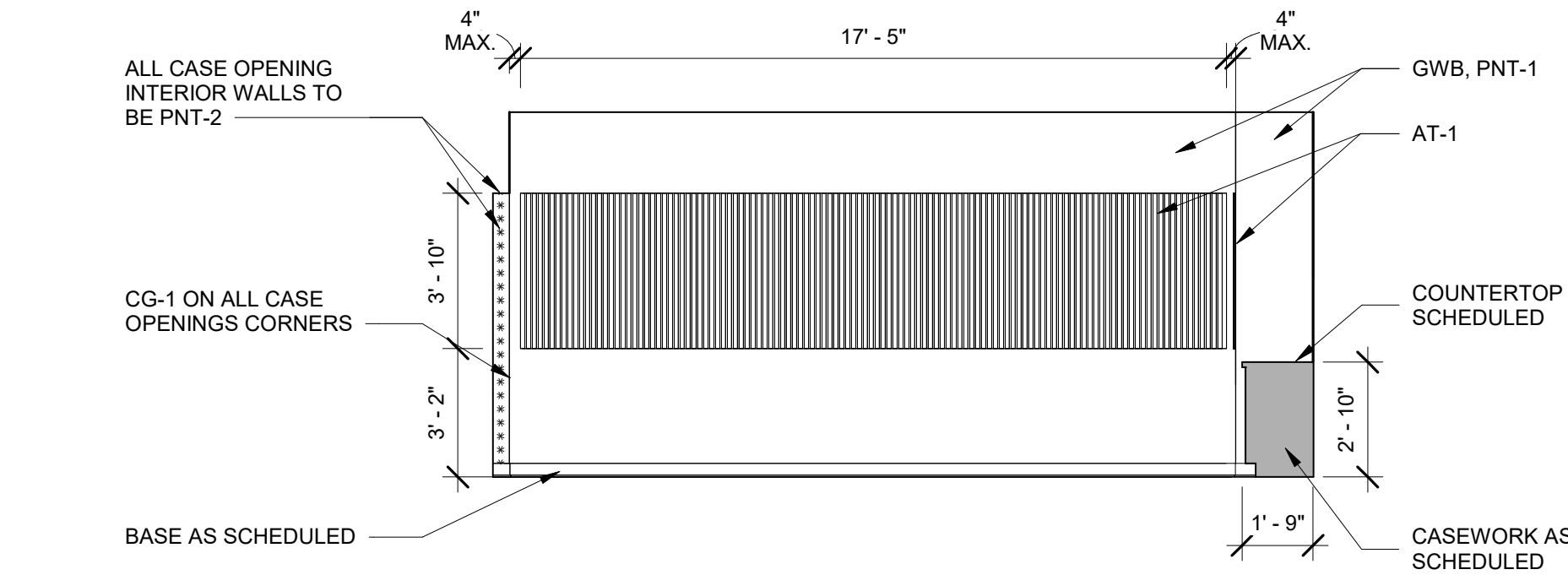
	TRUE NORTH
	PLAN NORTH
	EXISTING WALL TO REMAIN
	NEW WALL
	1 HOUR FIRE RATED PARTITION

D

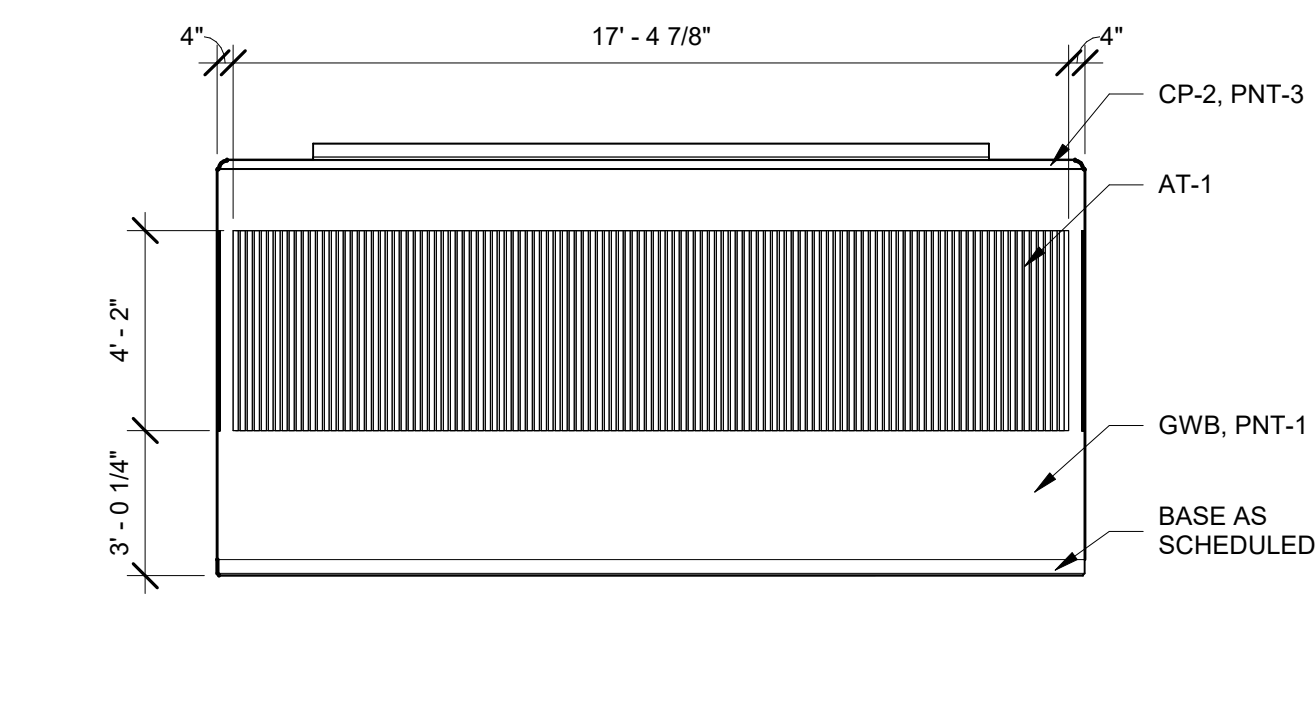
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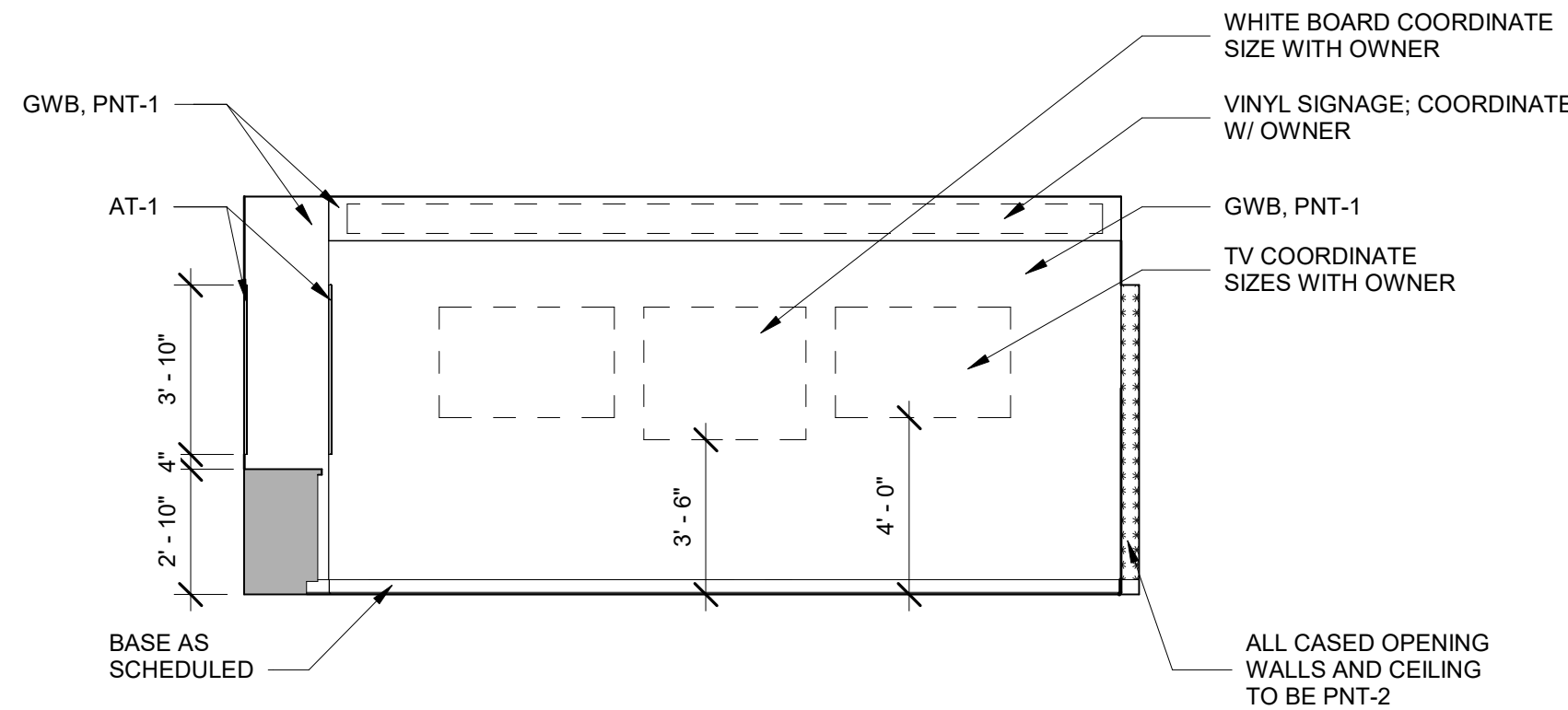
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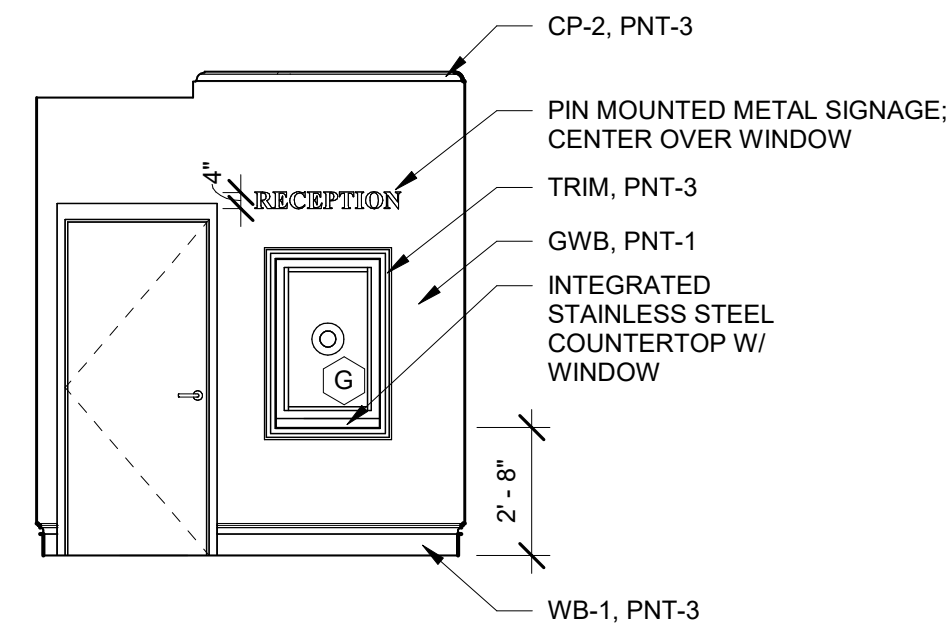
D4 TRAINING 113 - EAST
1/4" = 1'-0"



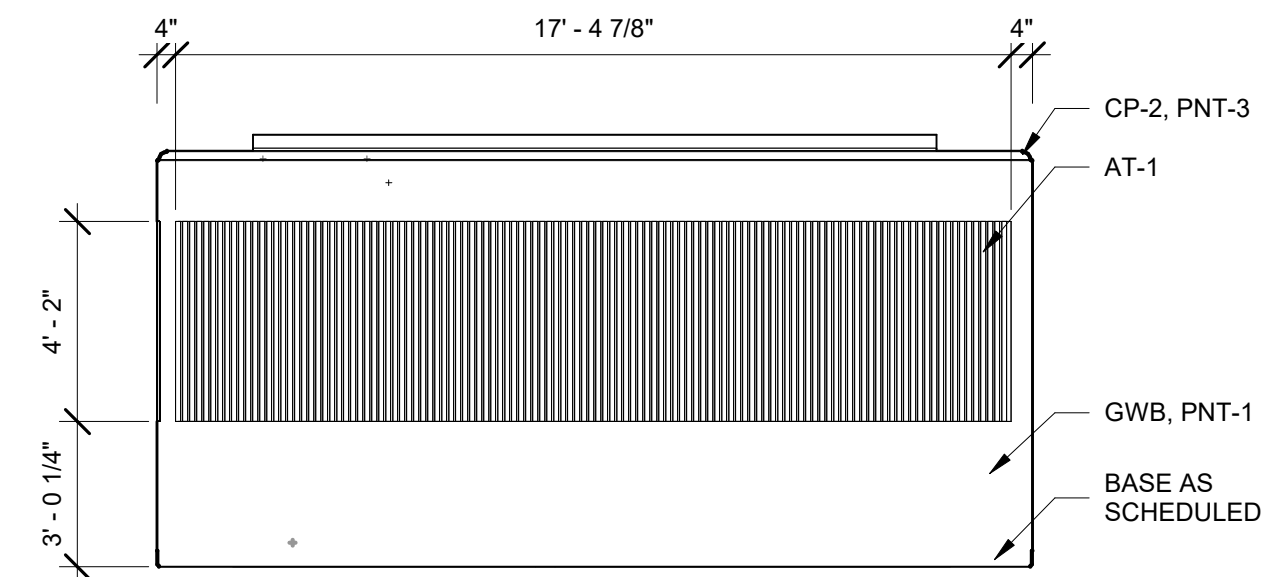
C2 COMM CENTER 110 - EAST
1/4" = 1'-0"



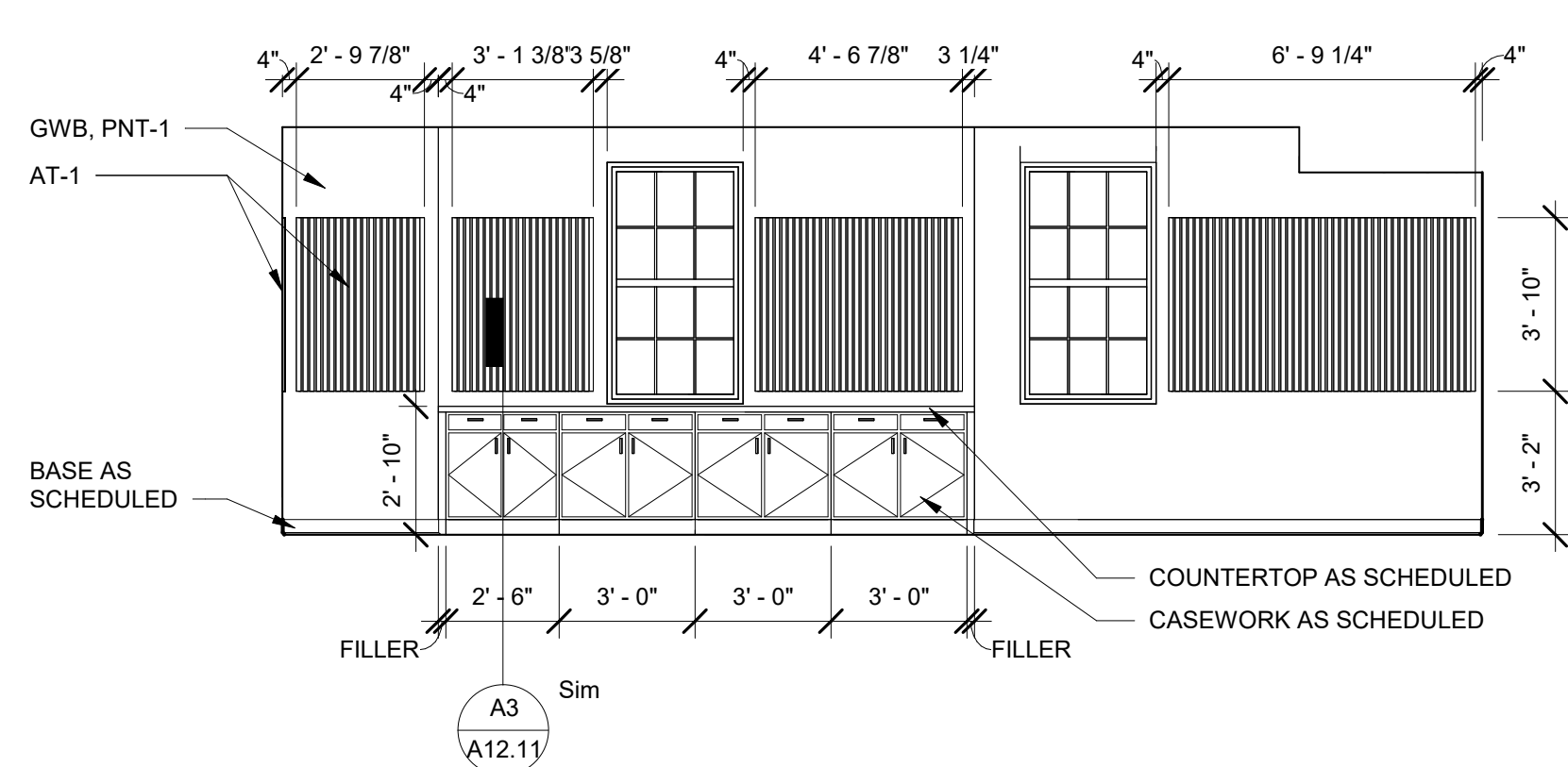
C3 TRAINING 113 - WEST
1/4" = 1'-0"



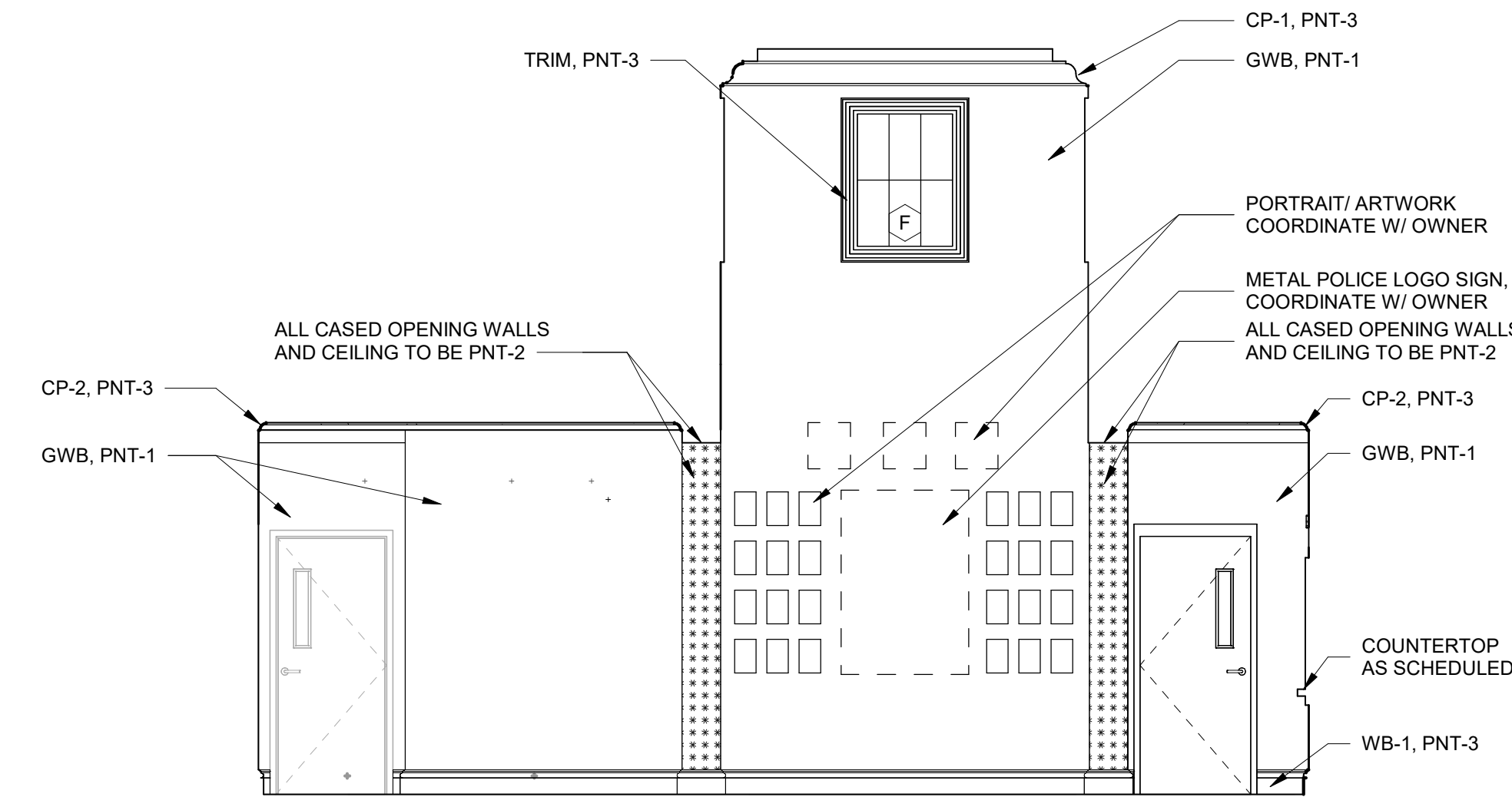
C4 LOBBY 101 - WEST
1/4" = 1'-0"



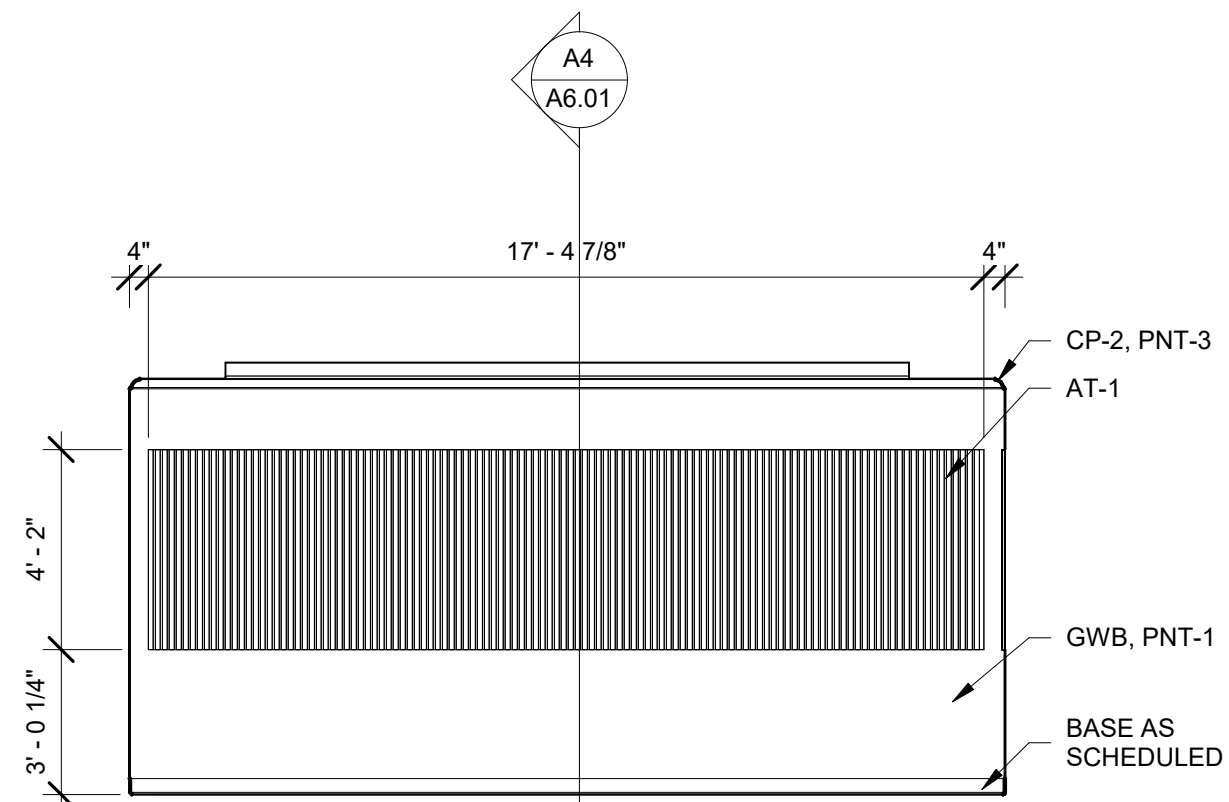
B2 COMM CENTER 110 - SOUTH
1/4" = 1'-0"



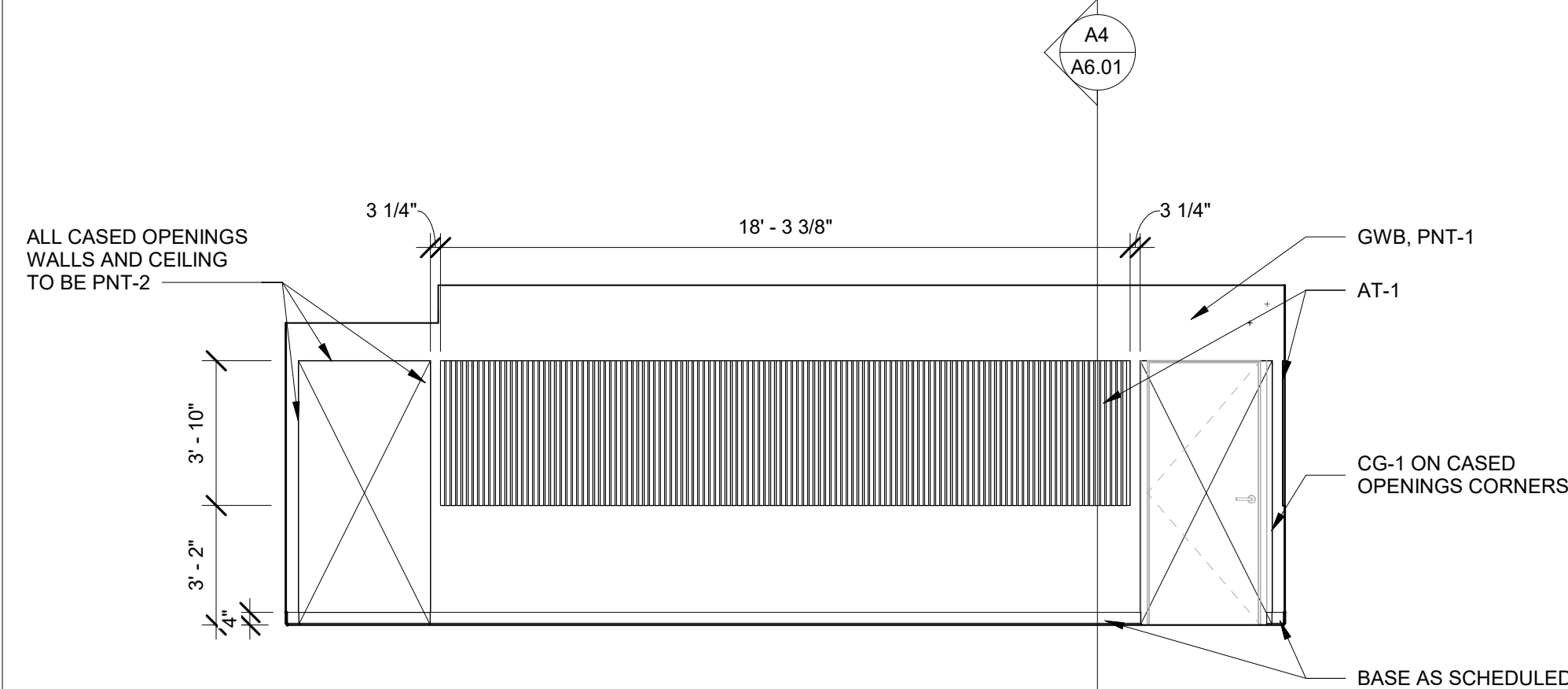
B3 TRAINING 113 - SOUTH
1/4" = 1'-0"



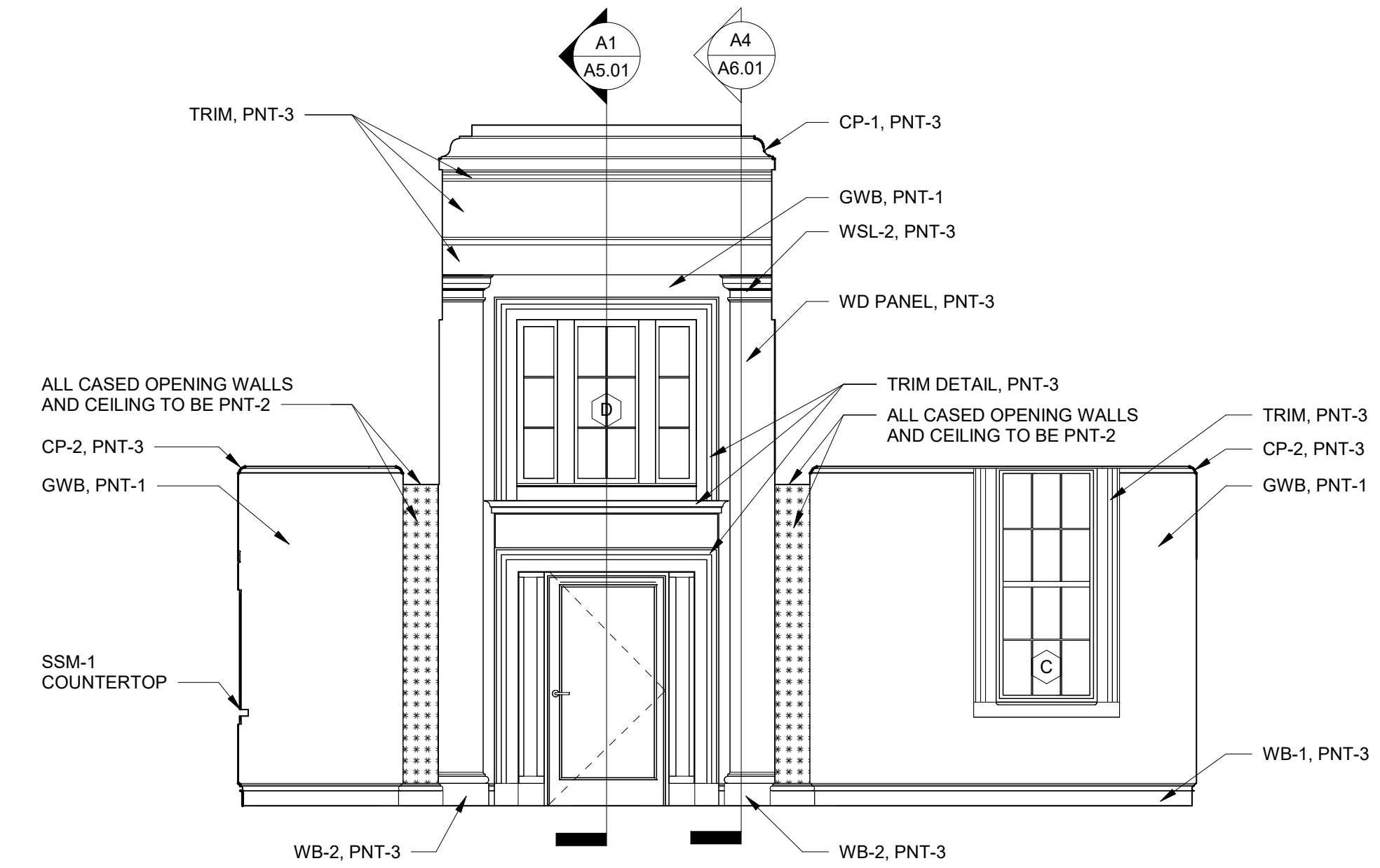
B4 LOBBY 101 - SOUTH
1/4" = 1'-0"



A2 COMM CENTER 110 - NORTH
1/4" = 1'-0"



A3 TRAINING 113 - NORTH
1/4" = 1'-0"



A4 LOBBY 101 - NORTH
1/4" = 1'-0"

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INTERIOR ELEVATIONS

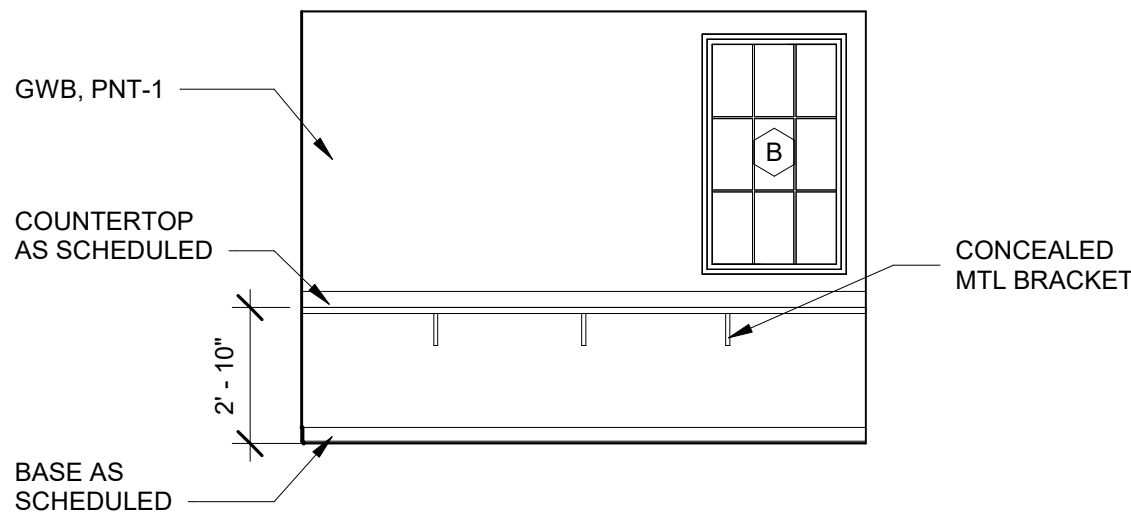
A11.01

D

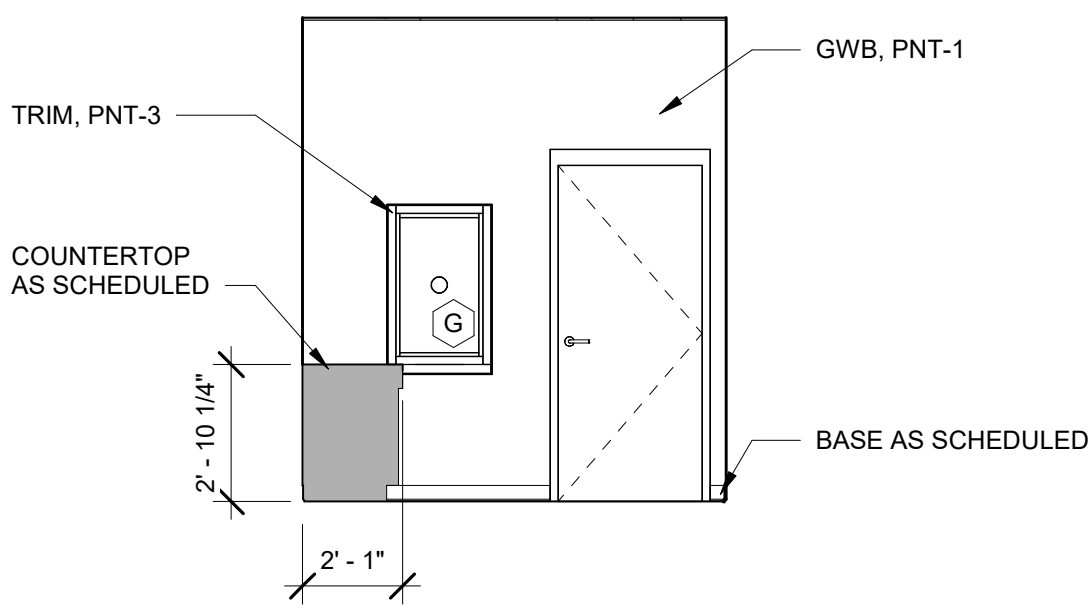
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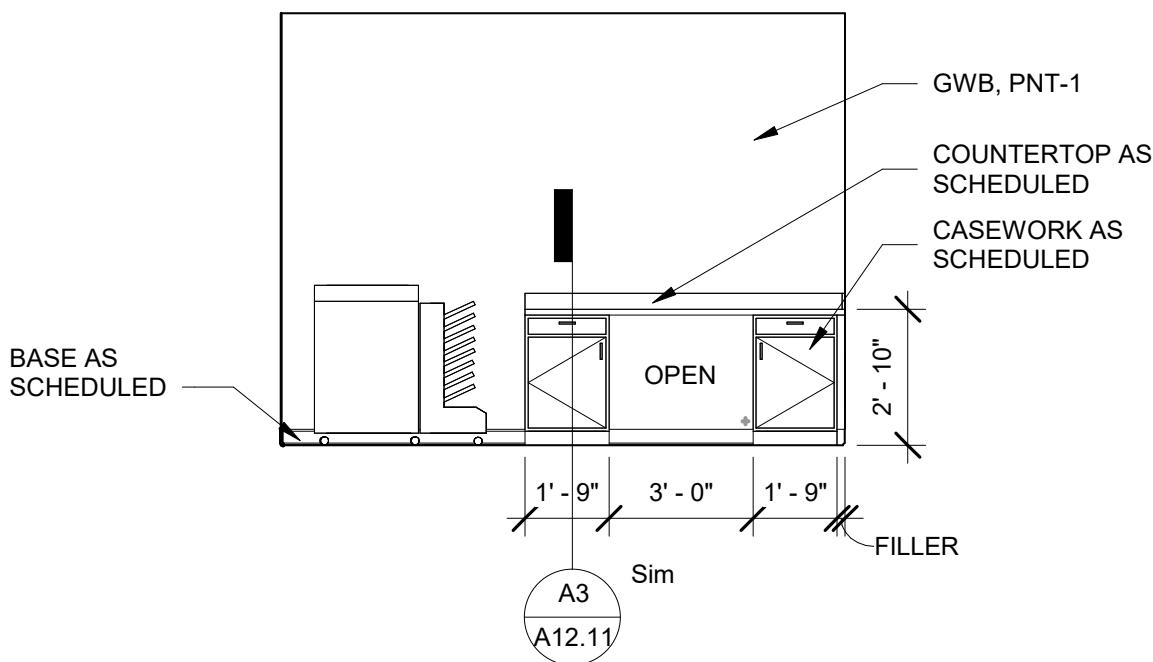
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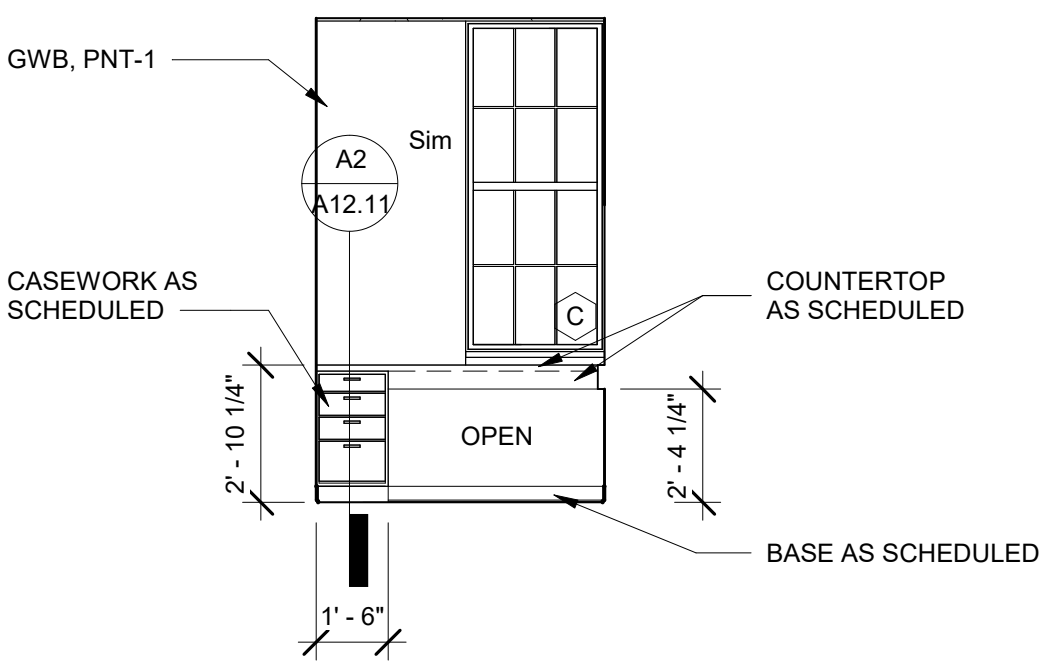
D4 WRITE UP 106 - WEST
1/4" = 1'-0"



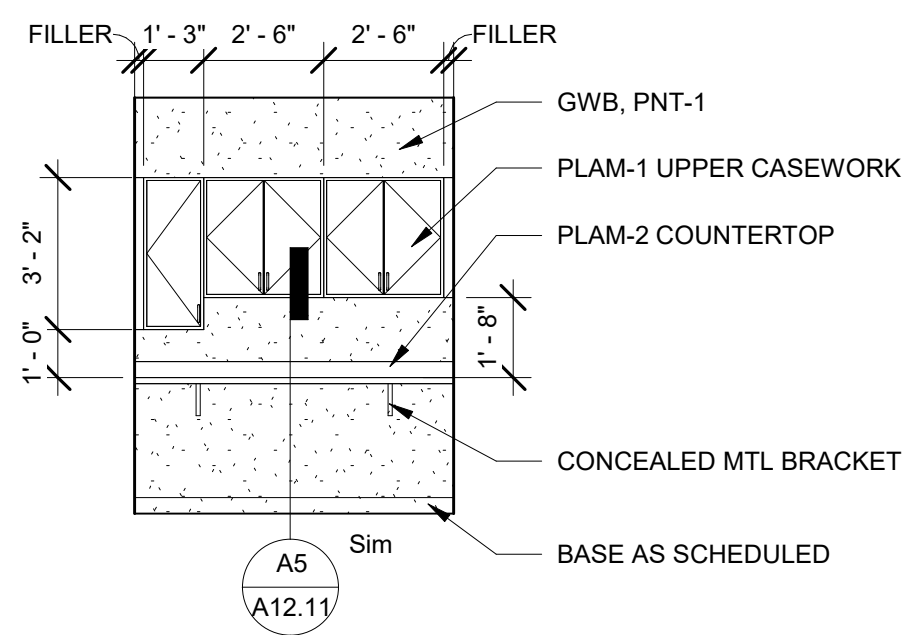
D5 RECEPTION CLERK 103 - EAST
1/4" = 1'-0"



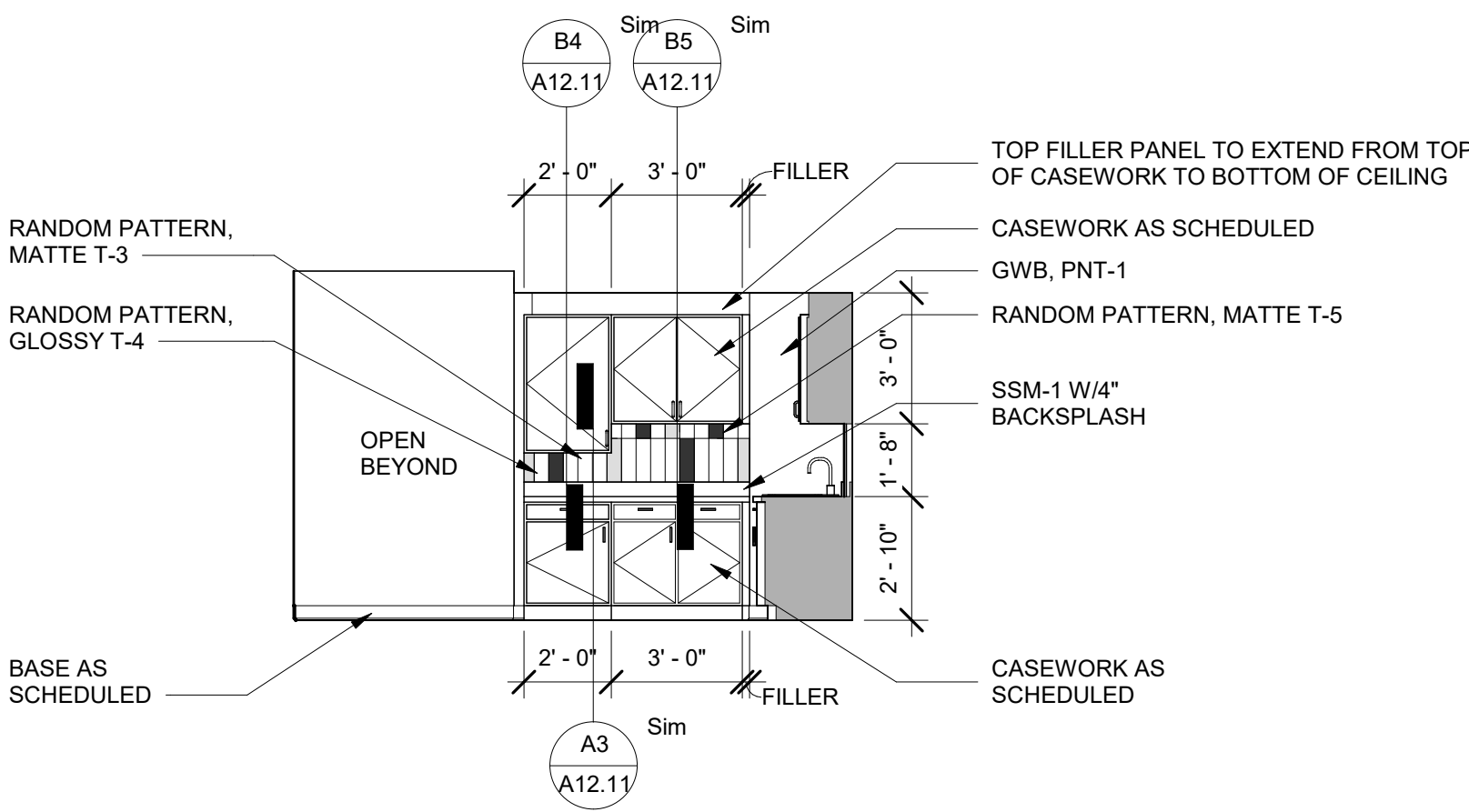
C4 COPY / WORK 105 - EAST
1/4" = 1'-0"



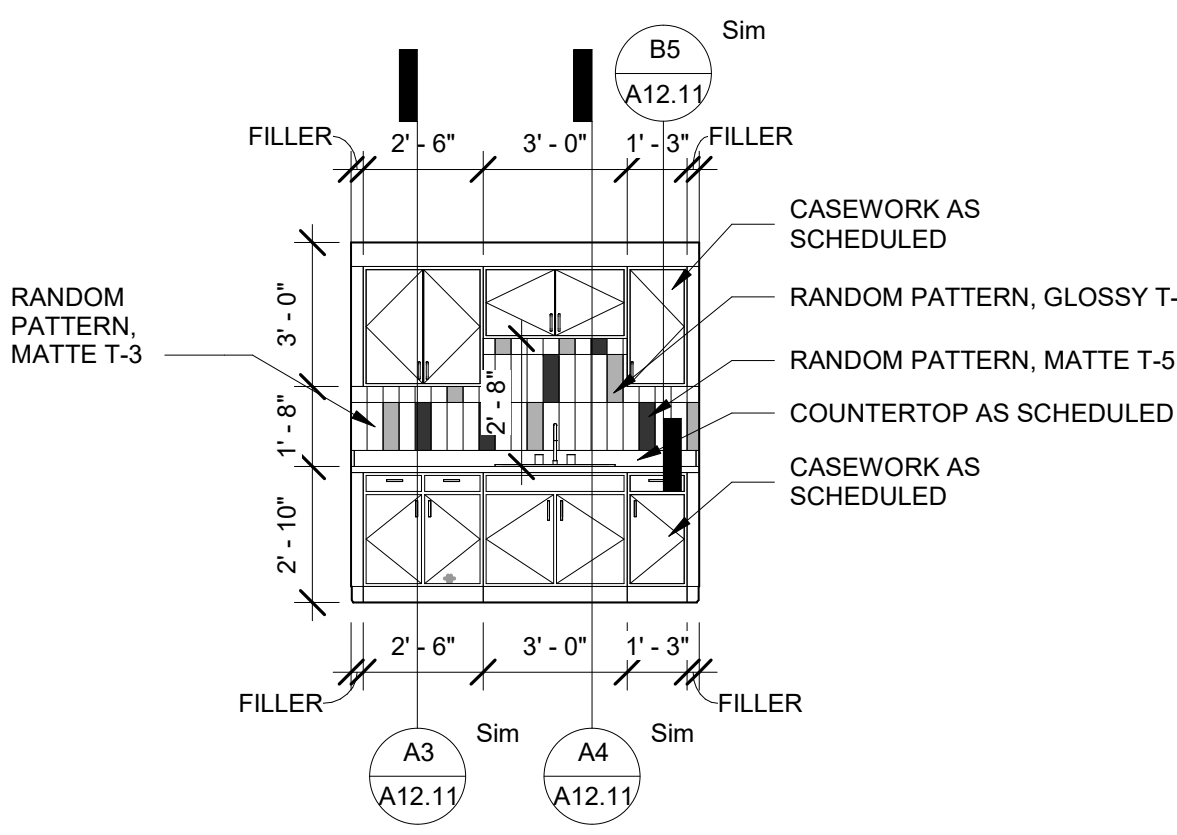
C5 RECEPTION CLERK 103 - NORTH
1/4" = 1'-0"



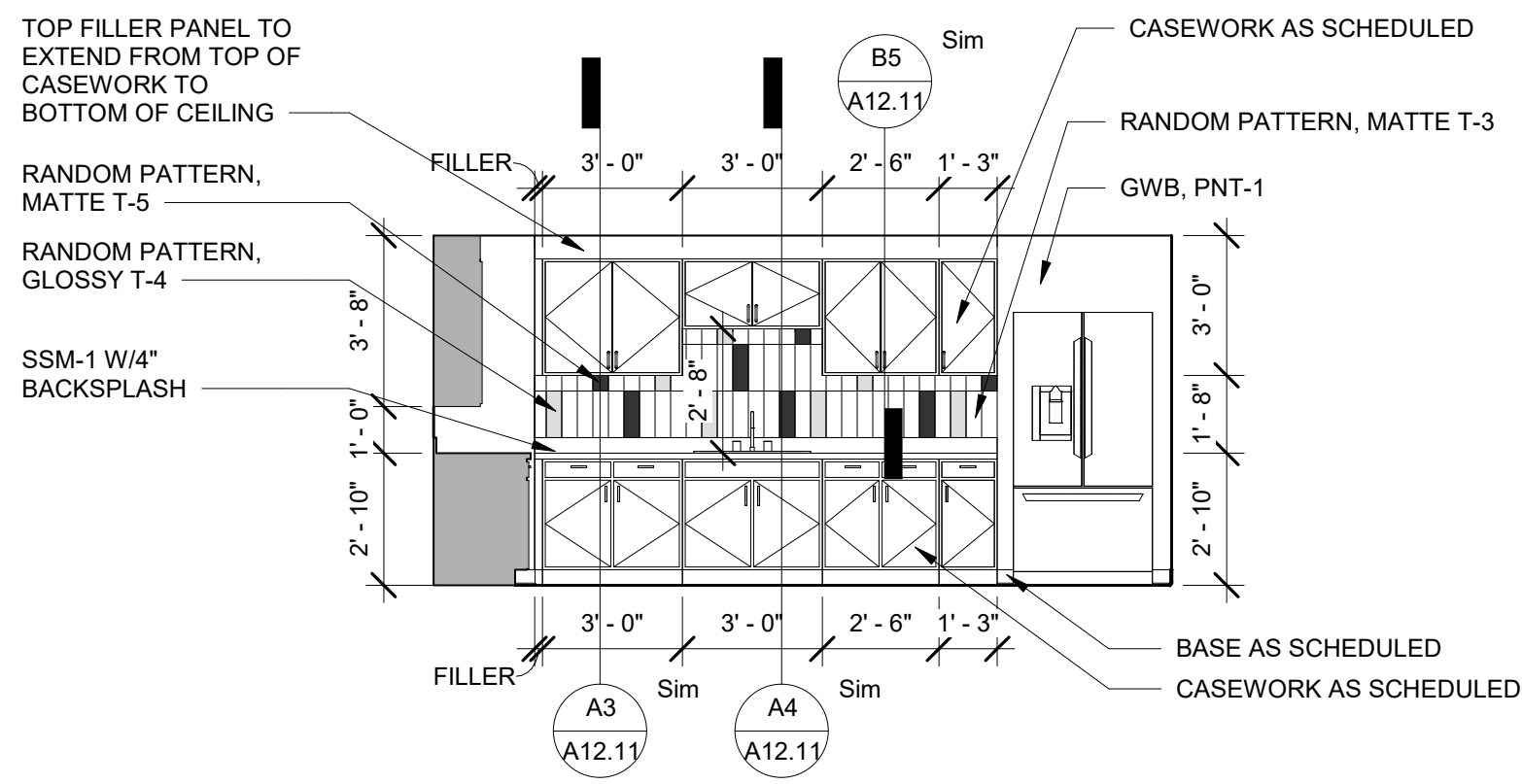
B3 BAG & TAG 006 - WEST
1/4" = 1'-0"



B4 BREAK 108 - SOUTH
1/4" = 1'-0"



A3 KITCHENETTE 207 - WEST
1/4" = 1'-0"



A4 BREAK 108 - WEST
1/4" = 1'-0"

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INTERIOR ELEVATIONS

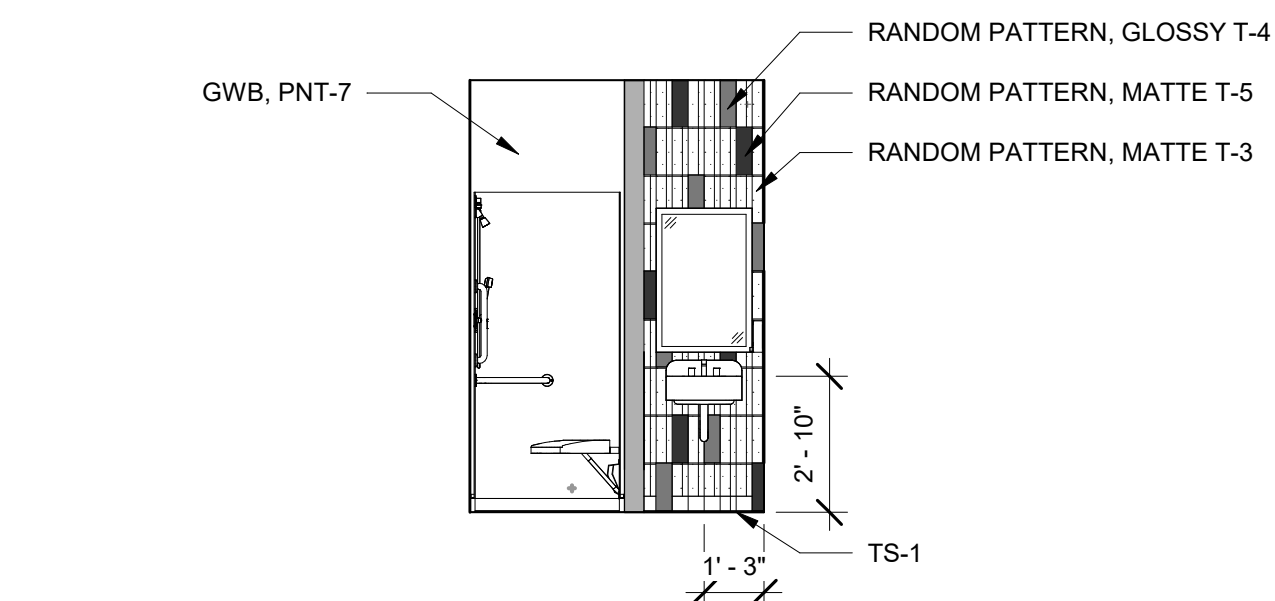
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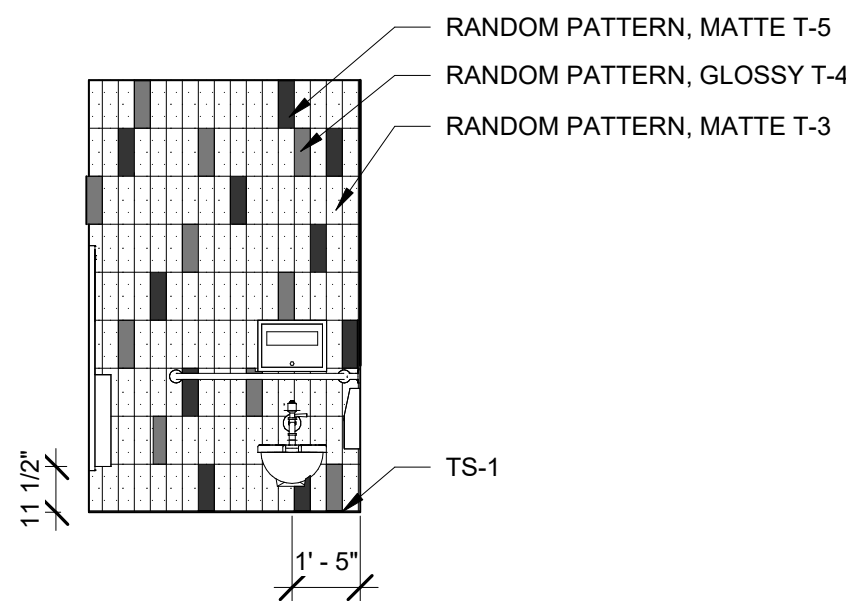
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B

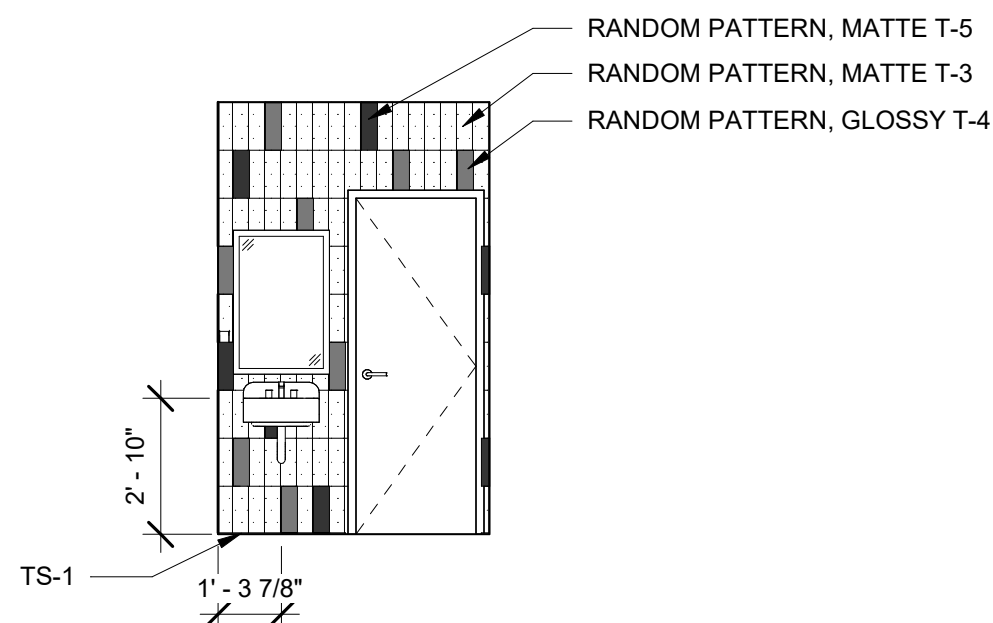
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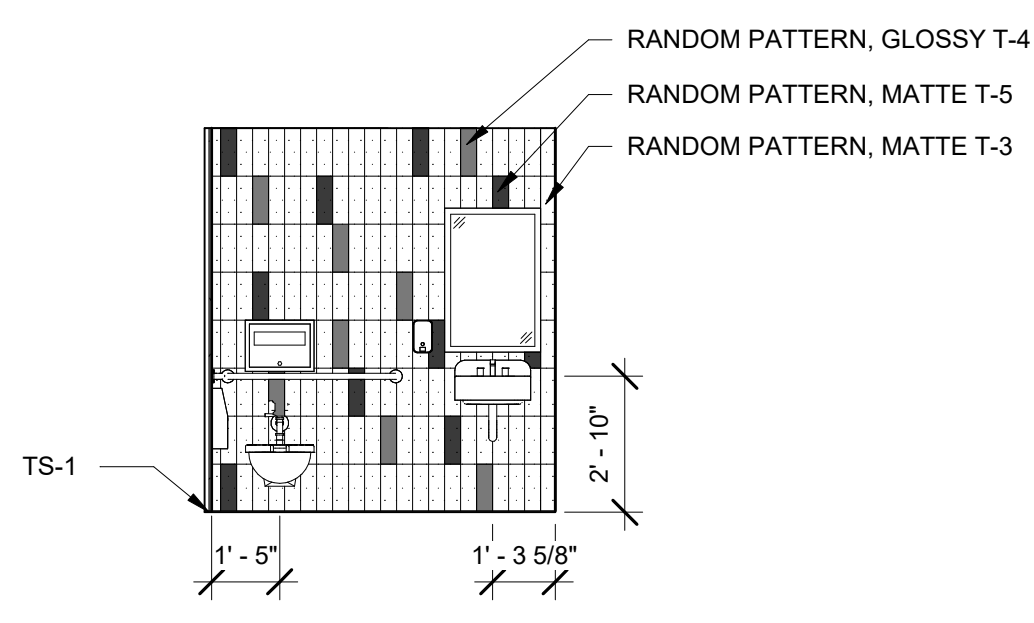
A2 RESTROOM 111 - EAST
1/4" = 1'-0"



A3 TOILET 102 - NORTH
1/4" = 1'-0"



A4 TOILET 102 - SOUTH
1/4" = 1'-0"



A5 TYP. TOILET - NORTH
1/4" = 1'-0"

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TOILET ELEVATIONS

A11.21

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CANTON POLICE STATION RENO

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INTERIOR DETAILS

A11.31

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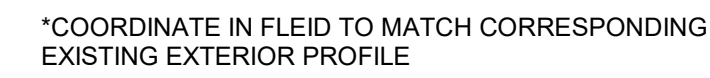
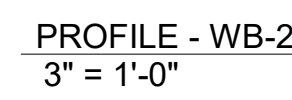


CANTON POLICE STATION RENO

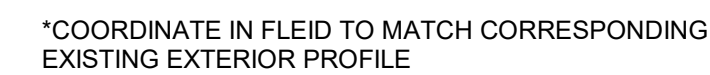
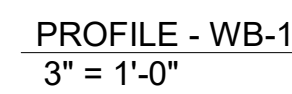
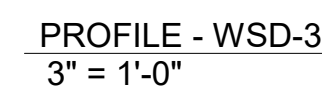
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Date: JULY 7, 2025

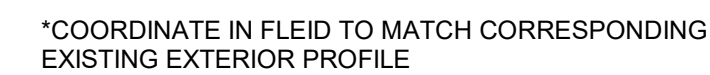
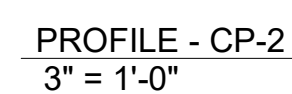
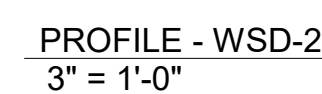
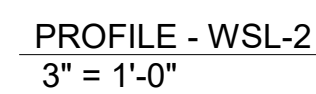
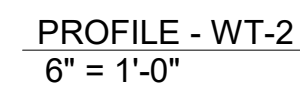
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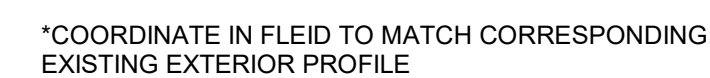
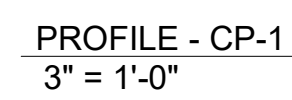
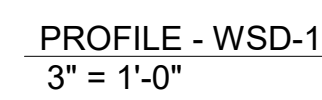
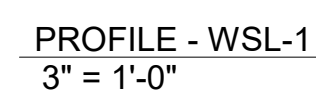
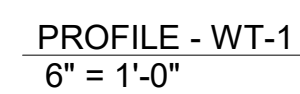
PROFILE - MP-4 PILASTER @ ENTRY
3" = 1'-0"



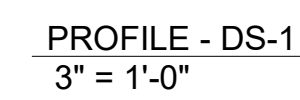
PROFILE - MP-3 PILASTER @ ENTRY
3" = 1'-0"



PROFILE - MP-2 @ ENTRY WALL
3" = 1'-0"



PROFILE - MP-1 @ ENTRY WALL
3" = 1'-0"



D

C

B

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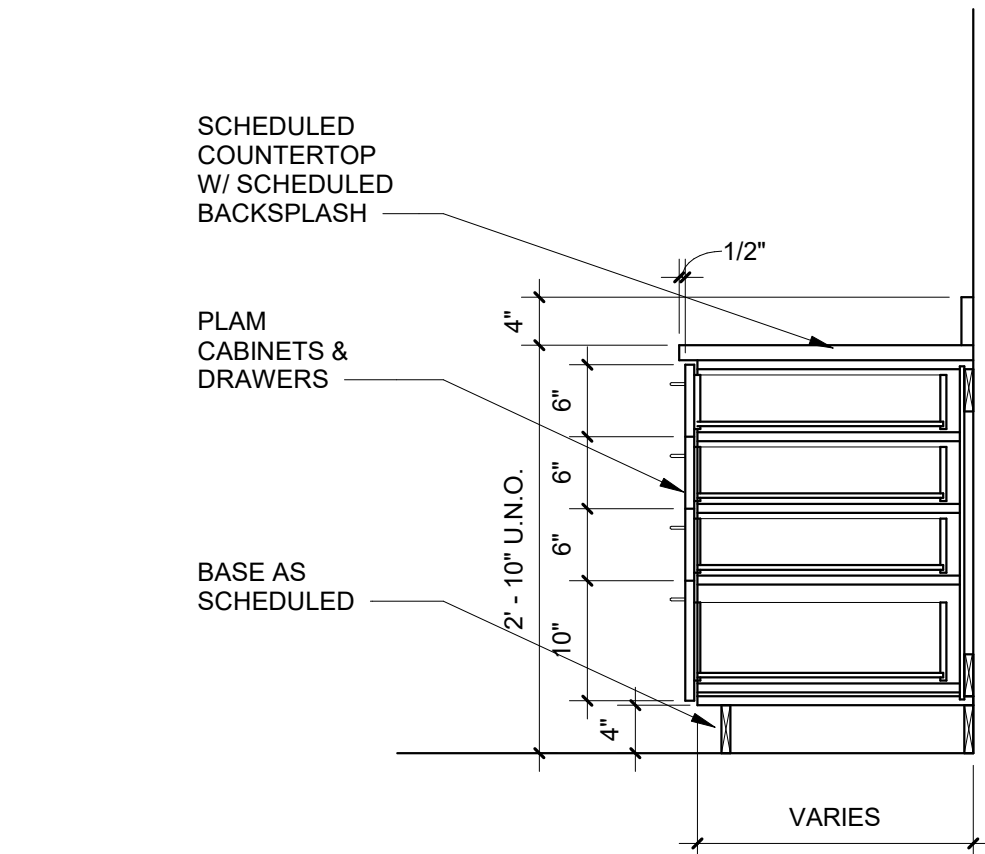
Package: CONSTRUCTION DOCUMENTS

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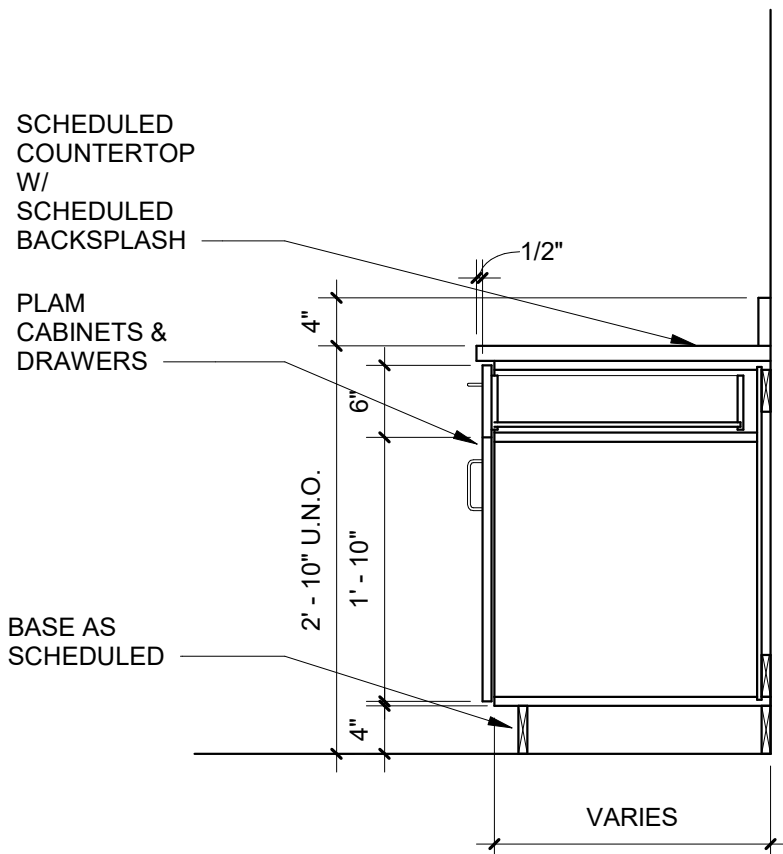
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CASEWORK DETAILS

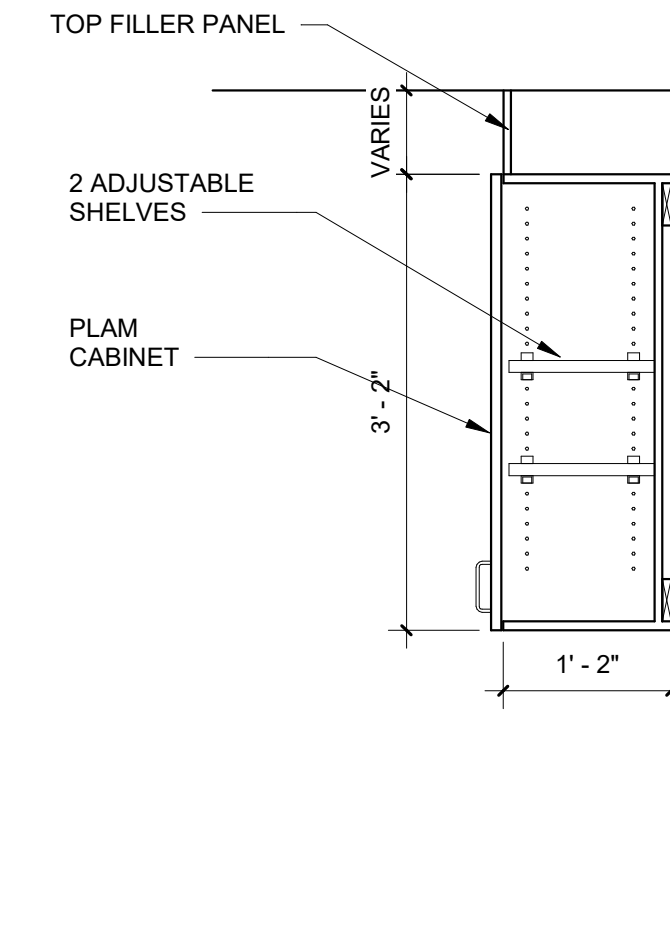
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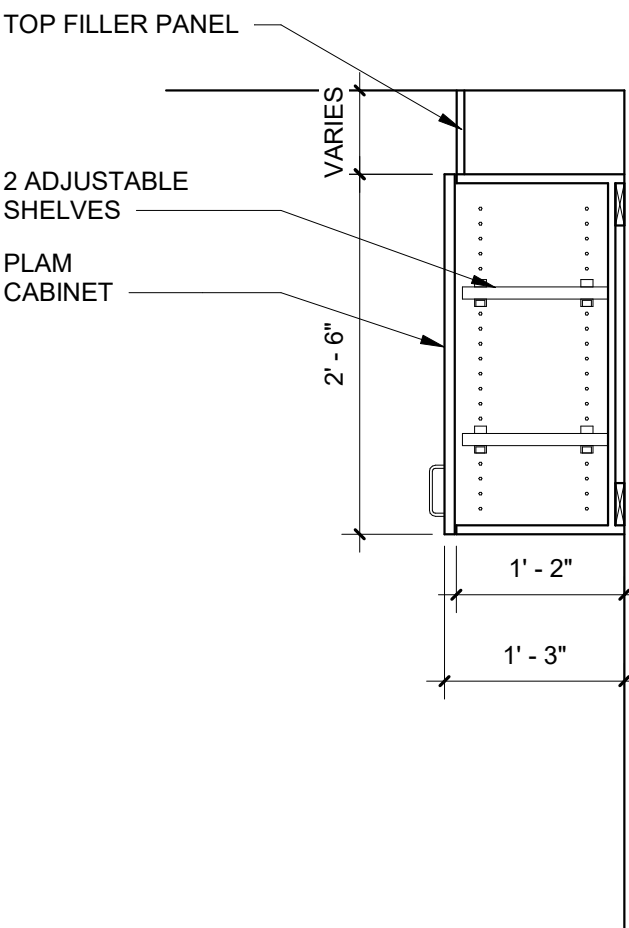
A2 CASEWORK SECTION - BASE CABINET 4-DRAWERS - ADA
3/4" = 1'-0"



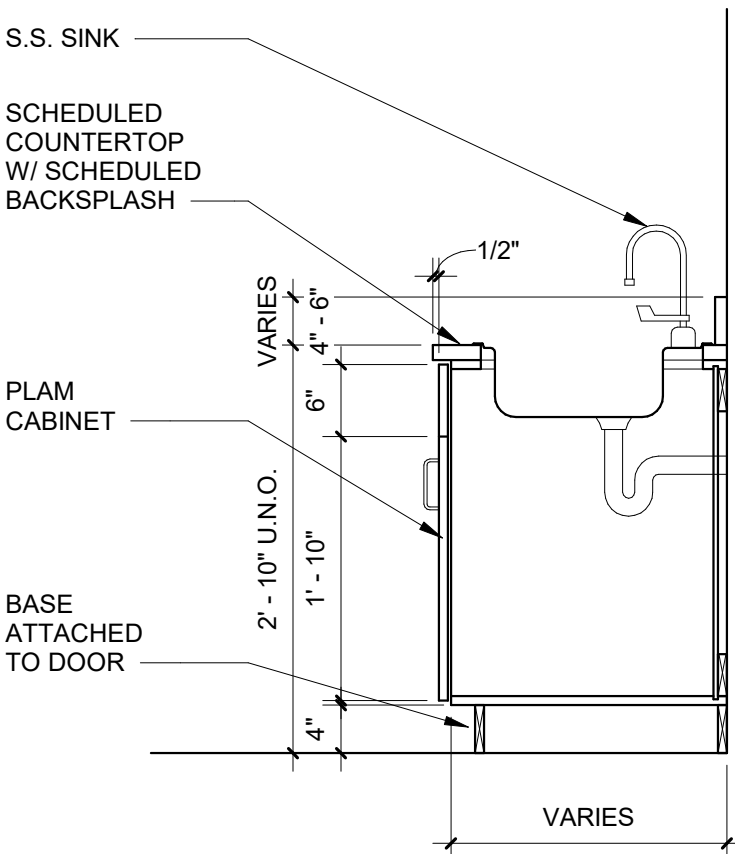
A3 CASEWORK SECTION - BASE CABINET W/ DRAWER - ADA
3/4" = 1'-0"



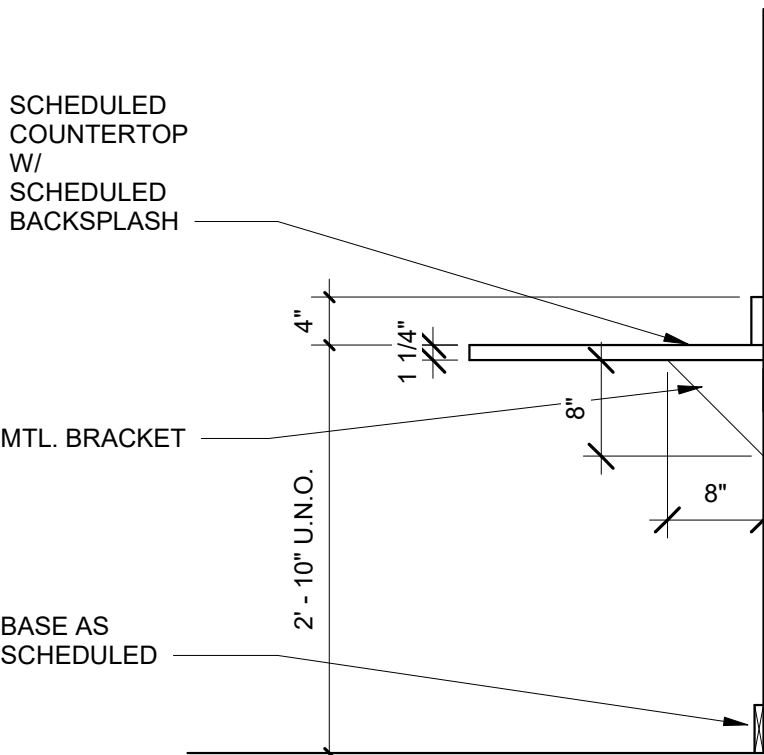
B4 CASEWORK SECTION - UPPER CABINET - ADA
3/4" = 1'-0"



B5 CASEWORK SECTION - UPPER CABINET
3/4" = 1'-0"



A4 CASEWORK SECTION - ADA SINK
3/4" = 1'-0"



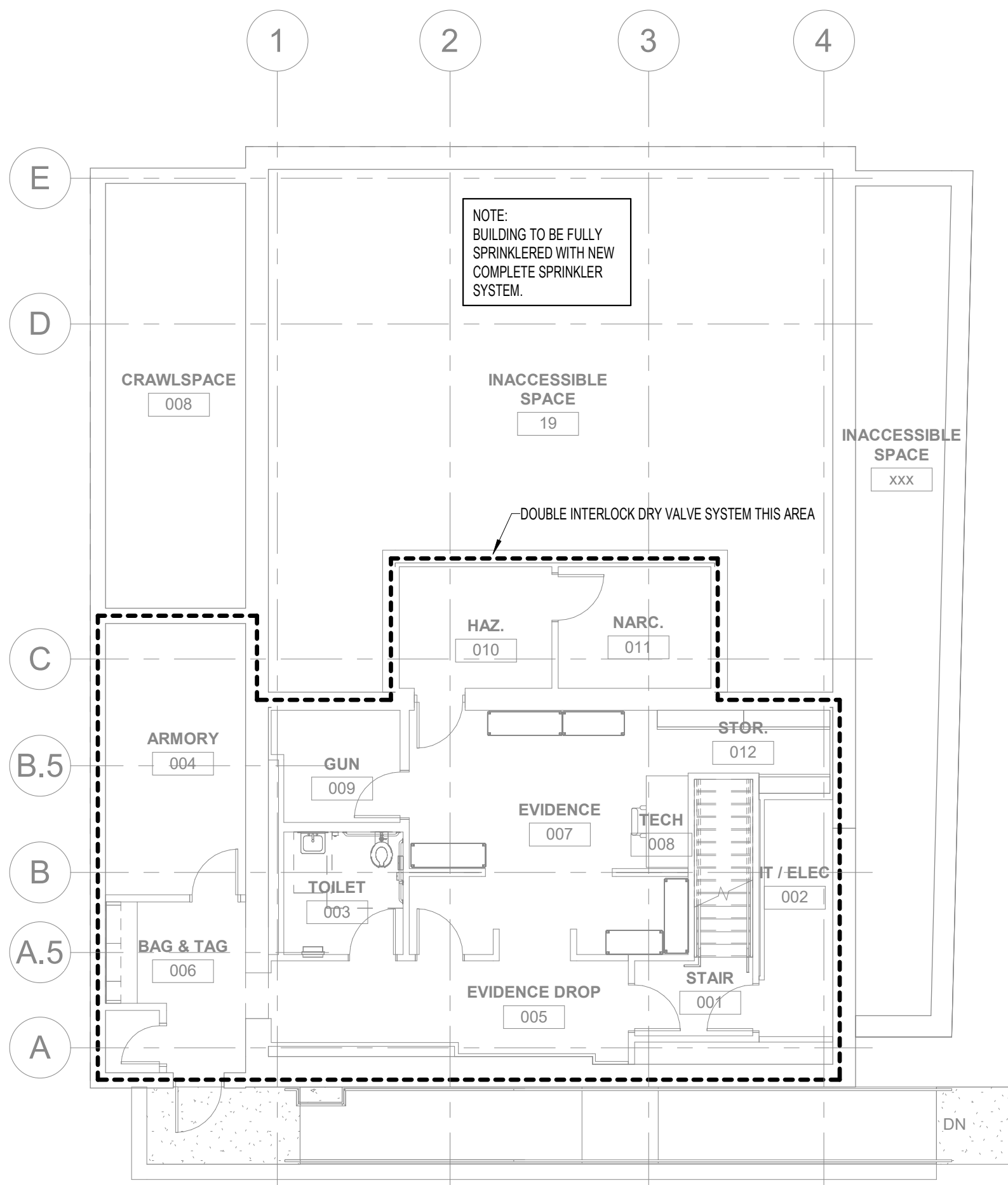
A5 CASEWORK SECTION - COUNTERTOP - ADA
3/4" = 1'-0"

D

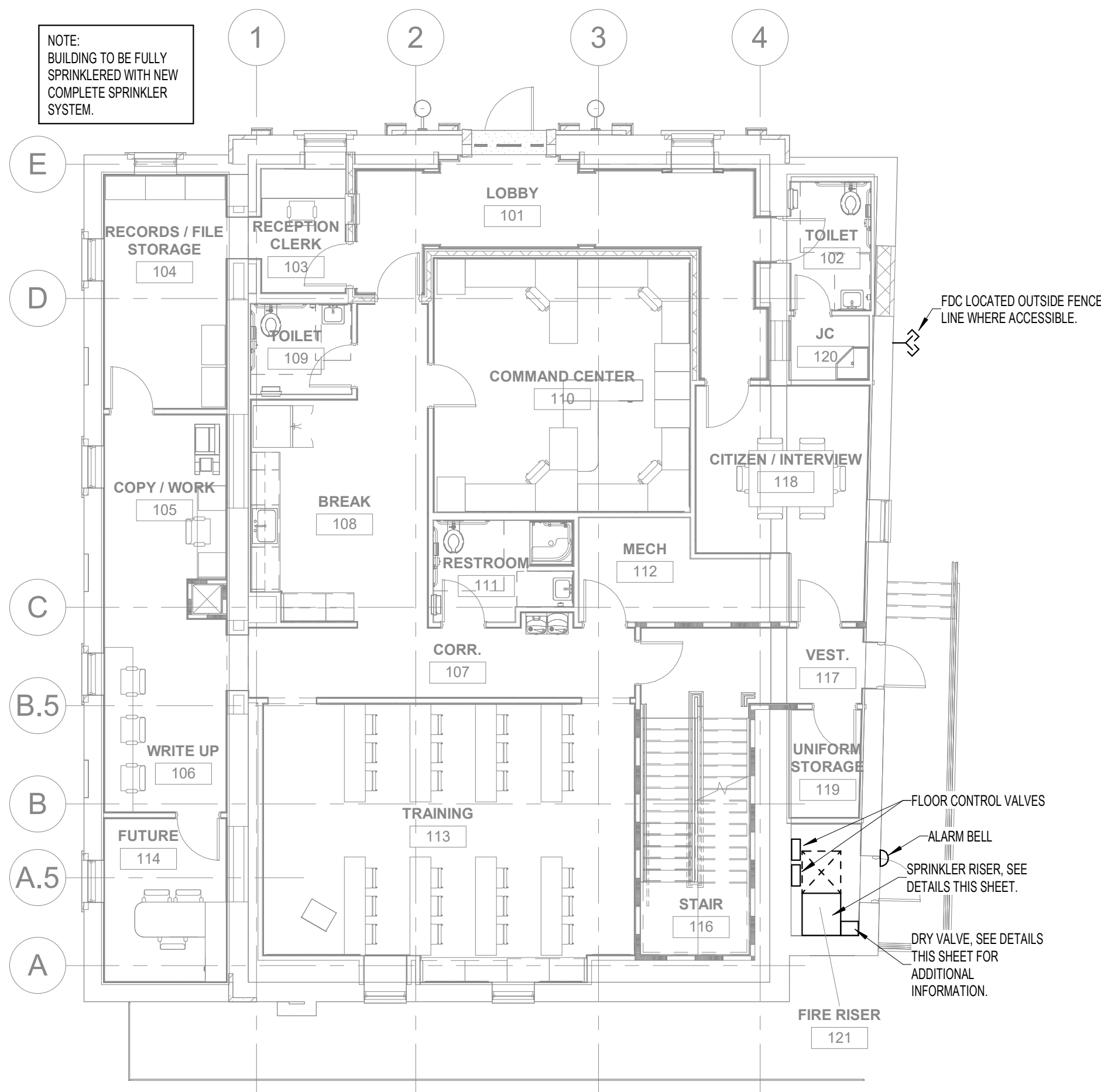
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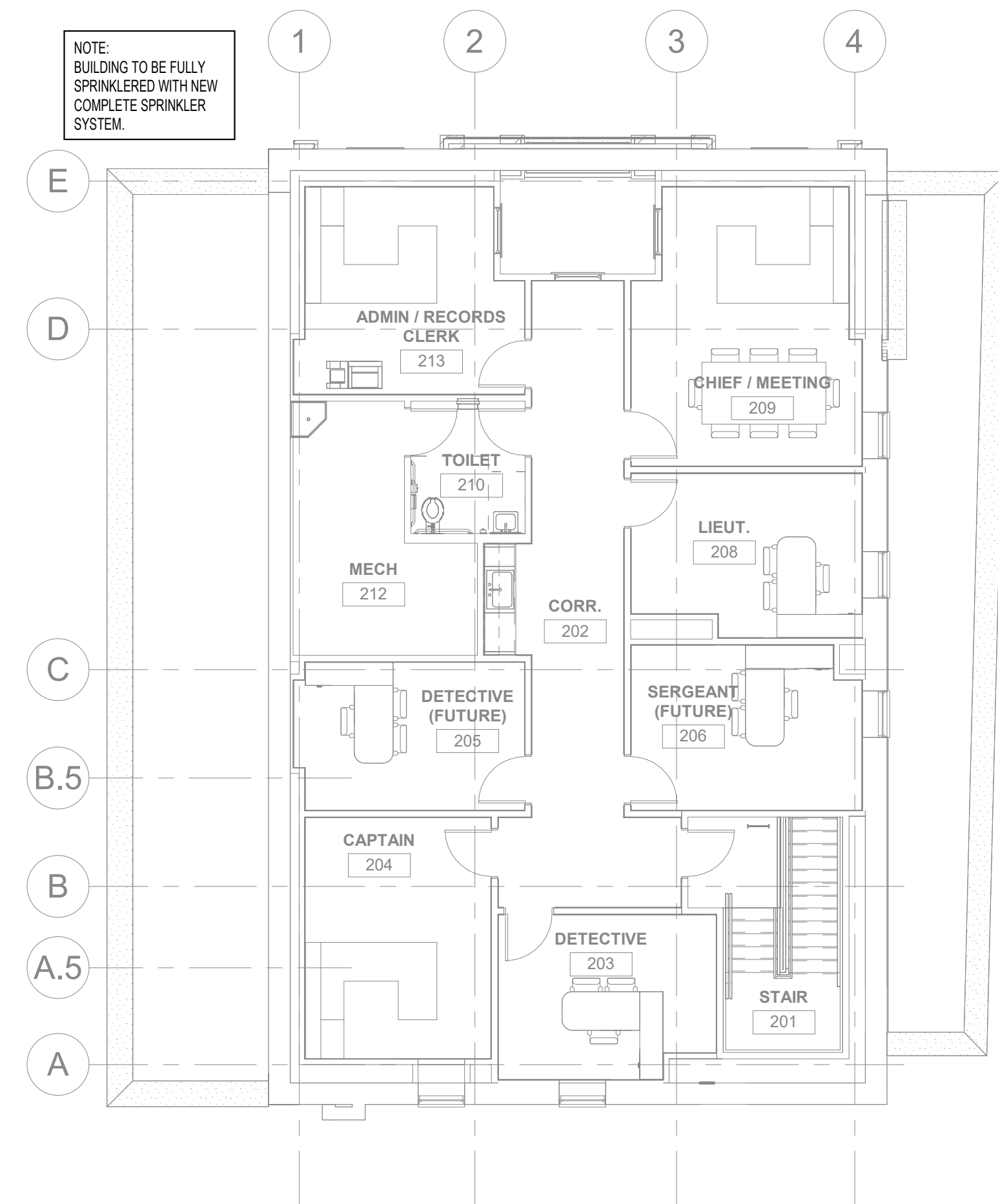
A



1 NEW BASEMENT FIRE PROTECTION FLOOR PLAN
1/8" = 1'-0"



2 NEW FIRST FLOOR FIRE PROTECTION FLOOR PLAN
1/8" = 1'-0"



3 NEW SECOND FLOOR FIRE PROTECTION FLOOR PLAN
1/8" = 1'-0"

FIRE PROTECTION SPECIFICATIONS

1. PROVIDE A COMPLETE HYDRAULICALLY CALCULATED WET PIPE AUTOMATIC SPRINKLER SYSTEM, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, & SERVICES REQUIRED TO DELIVER ALL SYSTEMS COMPLETE, IN PERFECT WORKING ORDER & IN FULL ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13, THE OWNER'S INSURANCE UNDERWRITER, & LOCAL CODES.
2. OBTAIN CURRENT WATER FLOW TEST INFORMATION FROM THE LOCAL WATER UTILITY BEFORE STARTING ANY SPRINKLER SHOP DRAWINGS.
3. OBTAIN A COMPLETE & CURRENT SET OF THE PROJECT CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, & PLUMBING DRAWINGS & COORDINATE SPRINKLER SHOP DRAWINGS WITH ALL TRADES PRIOR TO CONSTRUCTION.
4. PROVIDE SHOP DRAWINGS INCLUDING, BUT NOT LIMITED TO, ALL ITEMS WHICH APPLY AS OUTLINED IN NFPA-13.
5. THE SPRINKLER CONTRACTOR SHALL DETERMINE & NOTE ON THE DRAWINGS, HAZARD CLASSIFICATION PER NFPA-13 SHALL BE USED TO DETERMINE SPRINKLER SPACING & DESIGN DENSITIES.
6. PRIOR TO THE START OF CONSTRUCTION, THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PROVIDING & SUBMITTING TO ALL AUTHORITIES HAVING JURISDICTION & THE DESIGN ENGINEER/ARCHITECT COMPLETE DESIGN/SHOP DRAWINGS & HYDRAULIC CALCULATIONS BEARING A CURRENT NOTED LEVEL 3 OR 4 SIGNATURE, OR A P.E.
7. OBTAIN A PERMIT FROM THE LOCAL AUTHORITIES PRIOR TO THE INSTALLATION OF THE FIRE SUPPRESSION SYSTEM.
8. PROVIDE ALL NECESSARY OFFSETS, RISES OR DROPS IN THE PIPING & AUXILIARY DRAINS AS REQUIRED BY ALL APPLICABLE CODES WHETHER OR NOT SHOWN ON THE PLANS.
9. THE DESIGN, MATERIALS, AND INSTALLATION SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE N.F.P.A. CODES, STATE FIRE MARSHAL, LOCAL FIRE MARSHAL HAVING JURISDICTION, OWNERS INSURANCE CARRIER, & GOVERNING CITY AND COUNTY CODES.
10. WARRANTY THE SYSTEM, LABOR, MATERIALS, & EQUIPMENT FOR ONE YEAR AFTER OWNERS ACCEPTANCE. REPLACE OR REPAIR DEFECTIVE WORKMANSHIP, EQUIPMENT, & MATERIALS AT NO ADDITIONAL COST TO THE OWNER.
11. PROPERLY SUPPORT & BRACE VERTICALLY AND HORIZONTALLY ALL PIPING APPARATUS EQUIPMENT, ETC. IN ACCORDANCE WITH ALL APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.
12. ALL SPRINKLE ALARM, TAMPER, & DETECTION SYSTEMS ARE TO BE CONNECTED TO THE BUILDINGS CENTRAL FIRE ALARM SYSTEM.
13. VALVES, HEADS, FLOW SWITCHES, ETC. SHALL CARRY EITHER THE F.M. OR U.L. APPROVAL & CONFORM TO ALL REQUIREMENTS AS LISTED IN THE LATEST EDITION OF THE NFPA CODES.
14. PIPE HANGER, SHALL CONFORM TO N.F.P.A. & U.L. STANDARDS FOR SPACING, NUMBER, SIZE, & TYPE. PIPE TO BE GENERALLY SUPPORTED BY CLAMPS & RODS SECURED TO OVERHEAD CONSTRUCTION.
15. ESCUTCHEON PLATES: PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH FINISHED WALLS, FLOORS, OR CEILING. PROVIDE PRIME COAT PAINTED ESCUTCHEON PLATES WHEREVER PIPES PASS THROUGH THE WALLS, FLOOR, OR CEILINGS IN UNFINISHED EXPOSED AREAS.
16. TESTING & FLUSHING: OVERHEAD SPRINKLER PIPING: TESTED FOR A PERIOD OF TWO HOURS AT A HYDROSTATIC PRESSURE OF 200 LBS. & ALL PIPING, VALVES, HEADS, ETC. SHALL BE WATERTIGHT.
17. CUTTING & PATCHING OF ANY EXISTING CONDITIONS INCLUDING FLOORS, WALLS, & CEILINGS DUE TO THE INSTALLATION OF THE FIRE PROTECTION SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
18. PAINT ALL EXPOSED PIPING IN CLOSETS, STAIRWELLS, MECHANICAL ROOM, ETC. COLOR TO BE SELECTED BY THE ARCHITECT.
19. HEAD LOCATIONS ARE TO BE IN CENTER OF THE CEILING TILE USING THE REFLECTIVE CEILING PLANS IN THE CONTRACT DOCUMENTS, & AS COORDINATED WITH THE CEILING CONTRACTOR.
20. PROVIDE RECORD DRAWINGS WHICH CLEARLY SHOW ALL PIPING DIMENSIONED FROM ANY PERMANENT STRUCTURE, & ALL WORK ADDED TO THE CONTRACT DOCUMENTS.

FIRE PROTECTION DESIGN CRITERIA

NFPA 13
LIGHT HAZARD CLASSIFICATION - GENERAL BUILDING STRUCTURE
225 SQUARE FEET MAXIMUM PER HEAD
0.10 G.P.M. PER SQUARE FOOT FOR MOST REMOTELY HYDRAULICALLY CALCULATED 1500 SQUARE FEET
HOSE STREAM - 100 GPM
ORDINARY 1 HAZARD CLASSIFICATION - KITCHENS, STORAGE ROOMS, ETC
130 SQUARE FEET MAXIMUM PER HEAD
0.15 G.P.M. PER SQUARE FOOT FOR MOST REMOTELY HYDRAULICALLY CALCULATED 1500 SQUARE FEET
HOSE STREAM - 250 GPM
CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR BUILDING DESIGNS THAT AFFECT THE SPRINKLER DESIGN AND HYDRAULIC CALCULATIONS I.E.: SLOPED CEILINGS, SKYLIGHTS, MEZZANINES AND LARGE SUSPENDED OBJECTS, STORAGE MATERIAL HEIGHTS TO APPLY DESIGN FACTORS PER NFPA 13
THIS CONTRACTOR TO BE RESPONSIBLE FOR THEIR PENETRATIONS IN FIRE RATED WALLS AND FLOORS. ALL PENETRATIONS TO BE U.L. APPROVED FIRE STOP ASSEMBLIES FOR THE RATINGS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

GENERAL FIRE PROTECTION NOTES

1. THIS CONTRACTOR SHALL PROVIDE NEW SPRINKLERS IN AREA OF CONSTRUCTION PER NFPA 13, LIGHT HAZARD AND AS NOTED ON PLANS.
2. NEW SPRINKLER HEADS TO BE FLAT CONCEALED TYPE WITH WHITE CAPS IN AREAS WITH CEILINGS AND ROUGH BRASS IN STORAGE AREAS WITH NO CEILINGS.
3. NO PVC SPRINKLER PIPING PERMITTED ON PROJECT.
4. FLEXIBLE PIPING - ONLY FM APPROVED FLEXIBLE PIPING TO HEADS ALLOWED.
5. ALL SPRINKLER HEADS ARE TO BE CENTERED IN THE CEILING TILES.
6. UPON COMPLETION OF THE JOB, ALL SPRINKLER HEADS IN THE PROJECT AREA WILL BE NEW.

FIRE PROTECTION NOTES

FIRE PROTECTION CONTRACTOR TO COORDINATE WITH THE G.C. THE EXACT LOCATION OF ALL SPRINKLER HEADS. ALL SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF ACoustICAL TILES. IN AREAS WITH HUNG CEILINGS, OTHER AREAS WITHOUT CEILINGS, CONTRACTOR IS TO USE UTMOST CARE IN LAYOUT AND INSTALLATION OF EXPOSED PIPING TO MINIMIZE ITS VISUAL EFFECTS. SPRINKLER HEADS ARE TO BE ORGANIZED IN A REGULAR PATTERN WITHIN ALL SPACES. THEREFORE, ALL CONTRACTORS SHALL WORK WITH THE G.C. TO CREATE A REFLECTED CEILING PLAN FOR ARCHITECT/ENGINEER REVIEW AND APPROVAL PRIOR TO INSTALLATION OF ANY CEILING COMPONENTS.

THIS DRAWING IS TO ESTABLISH CRITERIA. FINAL DESIGN DRAWINGS AND HYDRAULIC CALCULATIONS BY SPRINKLER CONTRACTOR.

SPRINKLER SUPPLY PIPING TO TIE INTO EXISTING BUILDING AT LOCATION AS DETERMINED BY HYDRAULIC CALCULATIONS.

NOTE: THIS IS A CRITERIA DRAWING TO SHOW AREAS TO BE SPRINKLERED. INSTALLING CONTRACTOR TO PROVIDE ALL SUBMITTALS / INSTALLATION DRAWINGS / CALCULATIONS / ETC. REQUIRED FOR PERMIT AND INSTALLATION.

FLOW TEST

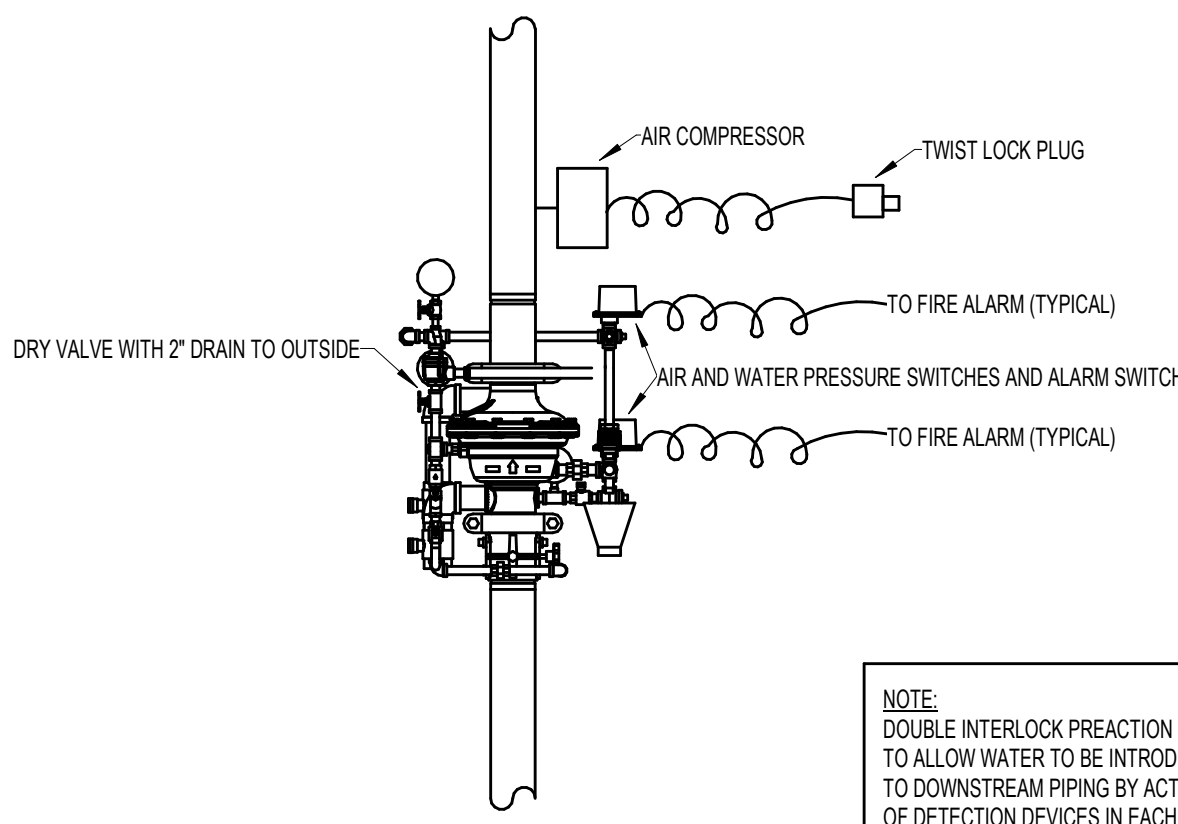


Chief Kevin D Wheeler
Canton Fire Department
21 Adams Street
Canton NC 28716
(828)646-3418
(828)406-5687
kwheeler@cantonnc.com

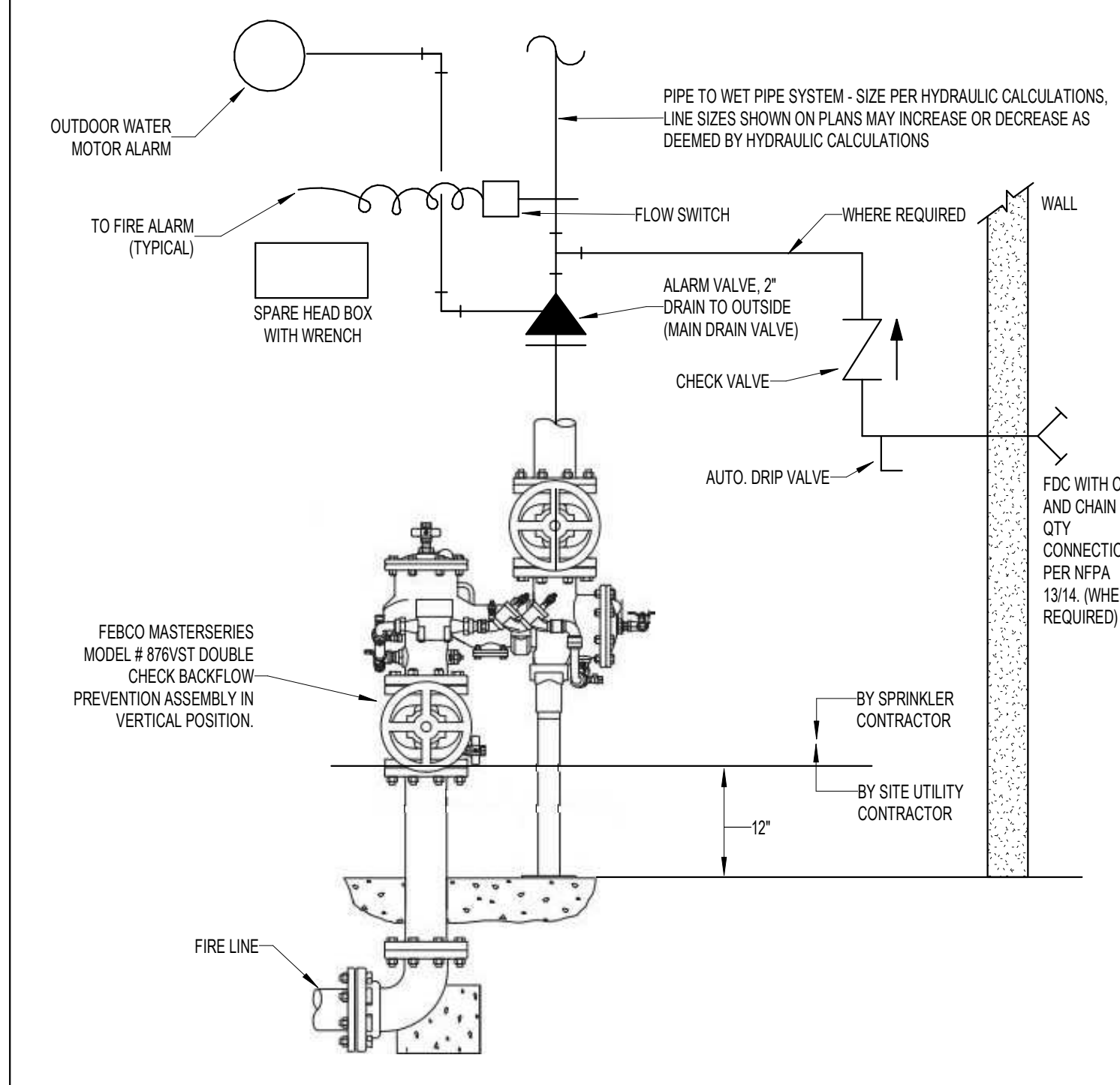
Hydrant Flow Tests

Hydrant A026
Corner of Main St & Academy St
Static: 120 psi
Residue: 95 psi
PTO: 25 psi
Flow @ 839 psi
Flow @ 10psi:1867 gpm
Flow @ 20psi:1773 gpm

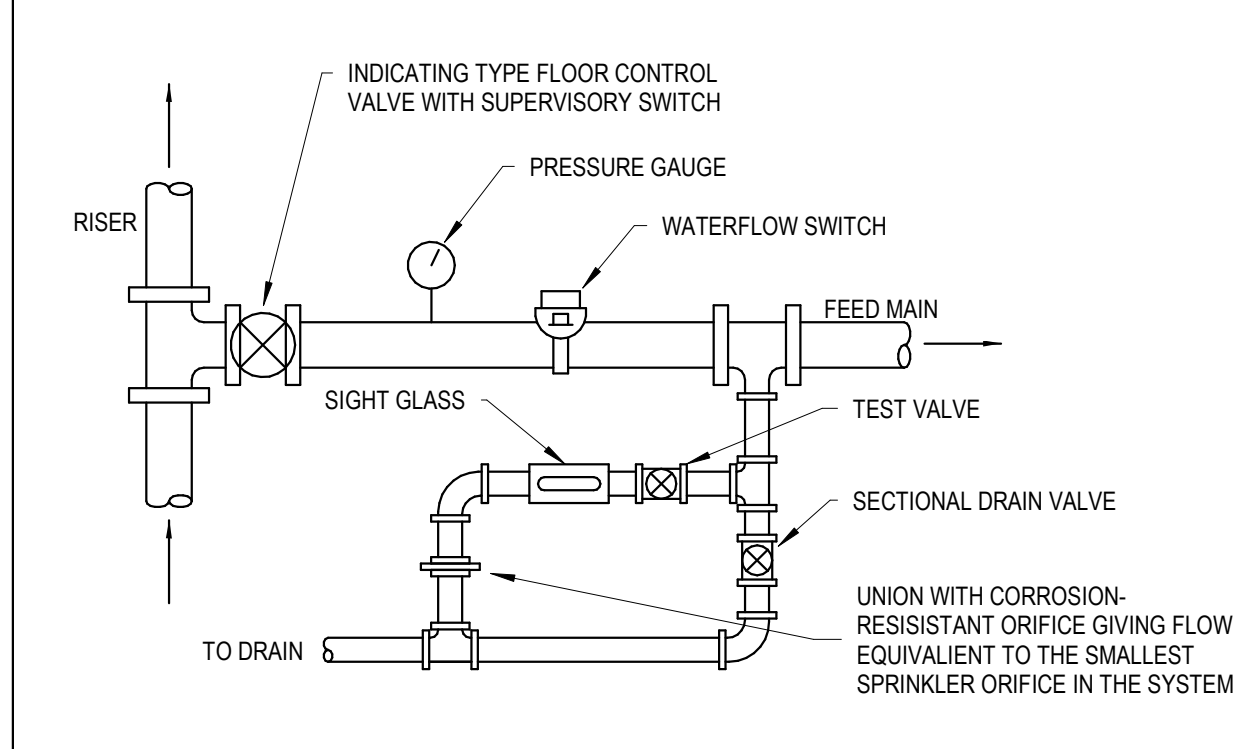
DOUBLE INTERLOCK PREACTION VALVE ASSEMBLY



MAIN RISER DETAIL



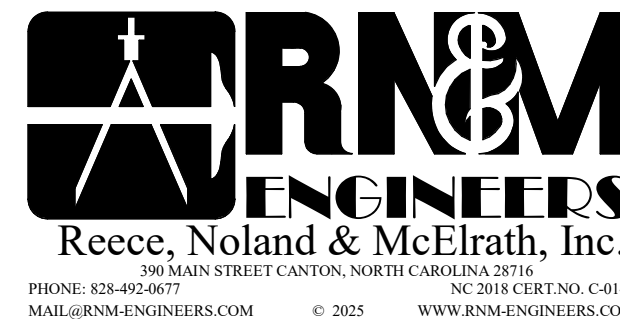
FLOOR CONTROL VALVE ASSEMBLY



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CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

**FIRE PROTECTION
PLANS, NOTES, AND
SPECIFICATIONS**

FP1.11

PLUMBING SPECIFICATIONS

IT IS THE INTENT OF THESE SPECIFICATIONS TO FURNISH A COMPLETE PLUMBING SYSTEM, FULLY ADJUSTED, AND READY FOR USE.

ALL WORK SHALL BE DONE IN COMPLIANCE WITH NORTH CAROLINA BUILDING CODES AND ALL LOCAL CODES.

THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL SALES TAXES, TAP AND METER FEES, AND OTHER COSTS, IN CONNECTION WITH HIS WORK.

ALL MATERIAL AND EQUIPMENT HAS BEEN CAREFULLY SELECTED FOR THIS PROJECT AND THE CONTRACTOR IS EXPECTED TO PROVIDE ALL ITEMS AS CLOSELY AS POSSIBLE TO THE SPECIFICATIONS AND AS CALLED FOR ON THE DRAWINGS.

ALL INCIDENTAL CONSTRUCTION WORK TO BE INCLUDED BY THIS CONTRACTOR.

SUBMIT ELECTRONIC FILE OF EQUIPMENT DATA SHOP DRAWINGS TO ENGINEER FOR ALL ITEMS TO BE FURNISHED AND INSTALLED FOR APPROVAL.

THIS CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED. NO CLAIM FOR EXTRA WILL BE APPROVED WITHOUT PRIOR COORDINATION FOR CONFLICTS BY CONTRACTOR, AND WRITTEN REQUEST AND APPROVAL PRIOR TO PERFORMING WORK.

ALL WORK AND EQUIPMENT TO BE GUARANTEED BY CONTRACTOR FOR ONE (1) YEAR.

UPON COMPLETION OF ALL WORK AND ALL TESTS, INSTRUCT THE OWNER OR HIS REPRESENTATIVE FULLY IN THE OPERATIONS, ADJUSTMENTS, AND MAINTENANCE OF ALL EQUIPMENT FURNISHED. PROVIDE OWNER MAINTENANCE SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED. MANUFACTURERS ADVERTISING LITERATURE OR CATALOGS WILL NOT BE ACCEPTABLE.

ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS AND GOOD RECOMMENDED PRACTICES.

ALL WORK AND MATERIALS SHALL MEET APPROVAL OF ARCHITECT/ENGINEER.

THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES. WHERE THE WORK OF THIS CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR WILL INTERFERE WITH WORK OF OTHER TRADES, HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS, IF THIS CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. DRAWINGS ARE NOT TO BE SCALED.

SOIL, WASTE AND VENT PIPING UNDERGROUND INSIDE BUILDING TO BE CAST IRON HUB AND SPIGOT SOIL PIPE WITH COMPRESSION JOINTS. ABOVE FLOOR CAST IRON HUB SOIL PIPE WITH COUPLING ASSEMBLIES. PIPE UNDER PAVED AREA TO BE CAST IRON.

DOMESTIC FLOOR WATER PIPE UNDERGROUND TYPE "K" COPPER. ABOVE GROUND, TYPE "L" HARD DRAWN COPPER.

ALL HOT AND COLD WATER PIPING ABOVE GRADE WITHIN BUILDING SHALL BE INSULATED. HOT WATER PIPE INSULATION SHALL BE 1" THICK, AND COLD WATER INSULATION SHALL BE 1/2" THICK SECTIONAL TYPE, FIBROUS GLASS OR CELLULAR TYPE INSULATION (ARMAFLEX).

ALL LINES TO BE INSULATED CONTINUOUSLY AND SUFFICIENTLY TO PREVENT FREEZING IN EXTREME CONDITIONS. WHERE PIPES ARE INSTALLED IN CEILING PLENUM ABOVE BATT INSULATION, THE BATT INSULATION SHALL BE LOOPED UP OVER THE WATER PIPES. IF IN WALL CHASE, CHASE TO BE LINED WITH STYROFOAM OR FIBERGLASS INSULATION. IF IN CONCRETE BLOCK CELLS, PIPE TO BE INSULATED WITH 3/4" ARMAFLEX AND BLOCKS FILLED WITH GRANULAR STYROFOAM PELLETS.

CONTROL VALVES FOR HOT AND COLD WATER LINES SHALL BE BALL VALVES, SWEAT TYPE.

PROVIDE ALL PLUMBING PIPING AND EQUIPMENT IN CONNECTION WITH THE SYSTEM.

PROVIDE ALL HANGERS AND SUPPORTS TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS IN CONTACT WITH COPPER PIPE SHALL BE COPPER PLATES OR BRASS.

CONTROL VALVES TO BE ON WATER CONNECTIONS TO ALL FIXTURES AND EQUIPMENT.

INSULATE HOT WATER SUPPLY PIPE AND DRAIN PIPE ON LAVATORY FOR HANDICAPPED.

CEILING FIBERGLASS INSULATION SHALL BE LAPPED OVER HOT AND COLD WATER PIPING IN CEILING SPACE IN ADDITION TO PIPE INSULATION SPECIFIED TO PREVENT FREEZING WHERE APPLICABLE.

THIS CONTRACTOR TO PERFORM ALL ADJUSTMENTS AND DISINFECTION OF SYSTEMS; EQUIPMENT, CONTROLS, ETC., NECESSARY FOR THE SYSTEM TO PROVIDE THE REQUIRED PERFORMANCE AND TO OPERATE SAFELY. SUBMIT "AS BUILT" DRAWINGS TO ENGINEER SHOWING ACTUAL INVERTS AND LOCATIONS OF UNDERGROUND LINES AND ALL CHANGES.

GENERAL CONTRACTOR TO FURNISH AND SET ROOF DRAINS. PLUMBING CONTRACTOR TO PIPE DRAINS TO 5' OUTSIDE BUILDING. PIPING MATERIAL SAME AS FOR WASTE VENT PIPING. AT PLUMBING CONTRACTORS OPTION, PVC SCHEDULE 40 MAY BE USED.

ALL PIPING SHALL BE THOROUGHLY FLUSHED OUT BEFORE USE.

THE WATER SYSTEM, AFTER IT HAS BEEN COMPLETED, TESTED AND THOROUGHLY FLUSHED TO REMOVE MUD AND DEBRIS, SHALL BE DISINFECTED BY CHLORINATION.

INJECT CHLORINE IN SOLUTION INTO NEW SYSTEM BY MEANS OF A PUMP AS SYSTEM IS FILLED. CHLORINATED WATER SHALL COMPLETELY DISPLACE ALL AIR AND WATER PRESENT IN NEW SYSTEM. OPEN SIGHTS AT END OF DISTRIBUTION IN BUILDINGS UNTIL, ALL LINES ARE FILLED WITH CHLORINATED WATER AND AIR IS REMOVED. CHLORINATED WATER SHALL HAVE A MINIMUM CHLORINE CONCENTRATION OF 50 PPM AND SHALL REMAIN IN SYSTEM FOR A MINIMUM OF 24 HOURS. AT THE END OF THIS PERIOD, THE SYSTEM SHALL BE FLUSHED UNTIL ONLY A MINIMAL RESIDUAL OF CHLORINE IS PRESENT AS DETERMINED BY THE ORTHO TOLUIDINE TESTS.

PROVIDE SLEEVES FOR WASTE PIPES PASSING THROUGH FOUNDATION WALLS.

PROVIDE CLEAN OUTS LOCATED NOT MORE THAN 100' APART IN HORIZONTAL DRAINAGE LINES OR 4" NOMINAL DIAMETER OR LESS. CLEAN OUTS MUST BE INSTALLED FOR EVERY FOUR HORIZONTAL 45° CHANGES LOCATED IN SERIES AND AT THE BASE OF EACH STACK.

SUSPENDED WATER LINES TO BE BRACED TO PREVENT SWAYING DURING THE OPERATION OF VALVES/EQUIPMENT.

GENERAL PLUMBING NOTES

1. THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND PLACEMENTS OF PLUMBING FIXTURES AND EQUIPMENT WITH THE SITE AND ARCHITECTURAL DRAWINGS, INCLUDING REFLECTING FLOOR PLANS, INTERIOR ELEVATIONS, DETAILS, AND SECTIONS PRIOR TO ROUGH-IN, OR RELOCATE AS DIRECTED BY THE DESIGN/ENGINEER/ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
2. ALL PIPING, FIXTURES, EQUIPMENT, ETC. SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODE REQUIREMENTS.
3. ALL PIPING, SLEEVES, INSERTS, AND OTHER ROUGH-IN MATERIALS SHALL BE INSTALLED AS BUILDING CONSTRUCTION PROGRESSES.
4. PIPE HANGERS SHALL BE SIZED SO THAT INSULATION IS CONTINUOUS AT ALL HANGERS.
5. THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AND TRADES TO LOCATE HIS WORK TO AVOID CONFLICTS.
6. EXISTING SERVICES INDICATED ON THESE DRAWINGS WERE REPRODUCED FROM EXISTING DRAWINGS AND LIMITED SITE OBSERVATIONS/VERIFICATION. THESE DRAWINGS MAY NOT BE AT ALL INCLUSIVE OF SERVICES THAT EXIST IN THE AREA OF WORK. CONTRACTOR TO FELD VERIFY EXISTING CONDITIONS AND LOCATIONS PRIOR TO CONSTRUCTION. ANY DIFFERENCE THAT "IMPACT" WORK SHOWN ON THESE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR COORDINATION PRIOR TO CONSTRUCTION.
7. CLEAN OUTS SHALL BE INSTALLED WHERE SHOWN AND WHERE REQUIRED BY CODE.
8. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL OFFSETS, FITTINGS, VALVES, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN OR SPECIFIED.
9. INSTALL ALL PIPING INSIDE OF THERMAL ENVELOPE. SEE ARCHITECTURAL DRAWINGS.
10. INSTALL BALL VALVE STOPS ON ALL FUTURE HOT WATER AND COLD WATER SUPPLIES.
11. ALL EQUIPMENT CONNECTIONS SHALL BE COORDINATED WITH EQUIPMENT DRAWINGS AND EQUIPMENT VENDOR. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY PIPING, SHUT-OFF VALVES, P-TRAPS, PRVS, ETC. REQUIRED TO INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS.
12. EXISTING FIXTURES, SERVICES, EQUIPMENT, ETC. TO REMAIN OR TO BE RELOCATED SHALL BE REPAIRED TO ORIGINAL OPERATION/CONDITION OR REPLACED, SHOULD THEY BE DAMAGED DURING CONSTRUCTION.
13. ALL DOMESTIC WATER PIPE, TRIM, AND FITTINGS TO BE LEAD FREE.
14. ALL VENTS THROUGH THE ROOF SHALL BE COMBINED AS PRACTICAL AND ALLOWED BY CODE, AND PENETRATE THE ROOF ON THE BACK SIDE OF THE BUILDING WHERE PRACTICAL. THIS CONTRACTOR SHALL COORDINATE DETAILS OF VENT PENETRATIONS AND FLASHING WITH THE ROOFING INSTALLER. ALL VENTS THROUGH THE ROOF SHALL BE LOCATED AT LEAST THE MINIMUM DISTANCE AWAY FROM PARAPETS AS REQUIRED BY CODE.
15. ALL NEW UNDERGROUND PLUMBING AND FIRE PROTECTION SHALL BE EXTENDED TO 5'-0" OUTSIDE OF THE BUILDING FOOT PRINT WHERE ANOTHER TRACE WILL CONNECT TO OR EXTEND PIPING.
16. NO "DOUBLE WYE" FITTINGS PERMITTED ON HORIZONTAL WASTE PIPING.
17. PROVIDE AND INSTALL SHOCK ARRESTOR PROTECTION FOR ALL FLUSH VALVES AND LINES SERVING CLOSING VALVES PER PD-HM 201 STANDARD.
18. COORDINATE LOCATION OF ALL FLOOR DRAINS WITH ARCHITECTURAL PLANS.
19. PROVIDE VALVE TAGS AND PIPE LABELS PER STATE AND LOCAL CODES.

PLUMBING FIXTURE SCHEDULE & SPECIFICATIONS										
ITEM	FIXTURE	ACCESSORIES	WASTE	VENT	TRAP	HW	CW	SHOWER FAUCET	MOUNTING HGT.	
P1	AQUA WATER CLOSET: FLUSH VALVE TYPE KOHLER MODEL # K-6057-SS-0 "WIDECURVE ULTRA" VITREOUS CHINA COORDINATE COLOR W/ARCHITECT	-SLOAN ROYAL 111 ESS-16-TWO-HW SENSOR OPERATED, 1.6 G.P.T. -SLOAN MODEL # E-154 TRANSFORMER AS NEEDED. SEE PLANS FOR LOCATIONS -BEMIS 21555027 TOILET SEAT	4"	2"	N.T.	---	---	---	FL. INT., 16" 58" A.F.F. TO RIM SEE NOTE 1	
P2	AQUA LAVATORY: WALL HUNG KOHLER MODEL # K-1899 "BROWMAN" VITREOUS CHINA (W/SHOULDER) COORDINATE COLOR W/ARCHITECT	-CHICAGO FAUCET MODEL # 1105/21 AB-1 FAUCET SEAT -CHICAGO MODEL # 900-810-3 TRANSFORMER AS NEEDED. SEE PLANS FOR LOCATIONS -MOORE BALL VALVE STUDS AND SUPPLIES -11 GA. CHROME PLATED P-TRAP -CONCEALED FLOOR CARRIER	2"	2"	1 1/4"	12"	12"	38"	WALL HUNG-SEE ARCH. ELEVATIONS	
P3	SHOWER: ACRYLIC (1.5 GPM) AQUA BATH MODEL # 1358PM ONE PIECE CONSTRUCTION COORDINATE COLOR W/ARCHITECT	-SYMONS TEMPTROL # C-56-500-830-V-X-CMS PRESSURE-BALANCED VALVE -DURASTAR AQUA FOLIOING SEAT, (BRAB BRAS) SHOWER DRAIN -SEAT LOCATION SHOWN ON PLANS	3"	2"	3"	12"	12"	N.T.	SEE ARCH. DRAWINGS -DRAGS	
P4	AQUA WATER COOLER: WALL HUNG ELKAY MODEL # L2535BVF COORDINATE COLOR W/ARCHITECT	-MOORE BALL VALVE STUDS AND SUPPLIES -CHROME PLATED 1 1/4 GA P-TRAP -AQUA APRON AND SUPPLY CARRIER -"WITHOUTLESS" ACTIVATION TOILET FILLER -SPEC TO BE ACCESSIBLE WITHOUT USE OF TOOLS. COORDINATE ROUNDED IN WITH ELECTRICAL CONTRACTOR	2"	2"	1 1/4"	12"	12"	38"	WALL HUNG FMR AS-A REQUIREMENTS	
P5	SINK: DROP-IN ELKAY MODEL # LRD312863 ONE COMPARTMENT, STAINLESS STEEL	-DELTA FAUCET MODEL # 11031-AR-502 FAUCET SEAT -ELKAY MODEL # U459 DRAIN -MOORE BALL VALVE STUDS AND SUPPLIES -11 GA. CHROME PLATED P-TRAP	2"	2"	1 1/2"	12"	12"	---	COUNTER TOP MOUNTED 5" 10" DEEP-DRAGS AT CENTER REAR	
P6	JANITORS SINK: FLOOR MOUNTED FAUCET MODEL # 128C1610 PRECAST TRENZ20	-AMERICAN STANDARD # 8331-076 FAUCET W/INTERGAL CHECKS -STAINLESS STEEL CAP ON ALL CURBS -FAT # 683C-2 MOX-HANOVER -FAT # 823A-ROSE AND HOSE BRACKET	3"	2"	3"	12"	12"	38"	FLOOR MOUNTED FAUCET AT 48" A.F.F.	
P7	WATER SUPPLY BOX: RECESSED MOUNTED QUAT GRAY MODEL # SSM8AB STAINLESS STEEL	-FURNISH COMPLETE W/ HAMMER ARRESTER -SUPPLY CONNECTIONS TO ICE MAKING EQUIPMENT TO BE COPED TUBING	---	---	---	---	---	---	WALL RECESSED	
P8	FLOOR DRAIN SINK CHUTE SERIES 833 "FINISHLINE" - DUCTILE CAST IRON	-DUCTILE IRON HEAD ADAPTOR, CORING SLEEVE AND CLAMPING COLLAR, CAST IRON BASE ADAPTOR -HIGH-CAPACITY POLYMER CORING PUG, FLASHING COLLAR -BOTTOM DUCTILE SQUARE TOP NOVEL BRONZE STRAINER, LEVELING SHIM KIT, FLEXIBLE LOCKING BRISTLES, STAINLESS NESH DERRIS BASKET, AND ROUND NOVEL BRONZE FUNNEL (AS NEEDED)	3"	2"	3"	---	---	---	MTD FLOOR WITH FLOOR	
P9	FLOOR CLEANOUT SINK CHUTE SERIES 834 "FINISHLINE" - DUCTILE CAST IRON	-DUCTILE IRON HEAD ADAPTOR, CORING SLEEVE AND CLAMPING COLLAR, HIGH-CAPACITY POLYMER CORING ADJUSTABLE ROUND NOVEL BRONZE TOP, BRASS CLEANOUT PLUG, CARTET MARKER (AS REQUIRED), LEVELING SHIM KIT, AND FLEXIBLE LOCKING BRISTLE KIT	---	---	---	PIPE SIZE	---	---	MTD FLOOR WITH FLOOR	
P9A	EXTERIOR CLEANOUT SINK CHUTE SERIES 834 "FINISHLINE" - DUCTILE CAST IRON	-DUCTILE IRON HEAD ADAPTOR, CORING SLEEVE, AND CLAMPING COLLAR- HIGH-CAPACITY POLYMER CORING ADJUSTABLE ROUND DUCTILE IRON TOP, BRASS CLEANOUT PLUG AND LEVELING SHIM KIT	4"	---	---	---	---	---	SEE "EXTERIOR DOUBLE CLEANOUT DETAIL"	
P10	FOOBBEE- EXTERIOR RECESSED WOODFORD MODEL # 867	-FURNISH COMPLETE, STEM SIZE AS REQUIRED	---	---	---	---	3/4"	---	WALL MOUNTED 18" ABOVE	

NOTES:

1. FLUSH VALVE HANDLES SHALL BE TO THE WIDE SIDE OF TOILET STALL PER I.C. ACCESSIBILITY CODE.
2. EQUI. FITTINGS BY AMERICAN STANDARD, SLOAN, OR APPROVED EQUAL.
3. EQUI. FITTINGS BY DELTA, SYMONS, OR APPROVED EQUAL.
4. EQUAL DRAIN AND CLEANOUPS BY J.R. SMITH, WATTS, OR APPROVED EQUAL.
5. INSTALL CHECK VALVES ON ALL COLD WATER AND HOT WATER SUPPLIES TO JANITORS SINKS.
6. ALL HANDICAP SINKS TO BE PROVIDED WITH COUNTERKICK.
7. ALL HANDICAP SINK LAVATORIES TO HAVE MOORE # PW2125000 SEAMLESS PREPARED P-TRAP AND SUPPLY INSULATION KIT
8. COORDINATE ALL PLUMBING OR SINKS WITH CATERPILLAR SHOP DRAWINGS PRIOR TO ORDERING.
9. FOR ALL HANDWASHING SINKS/AVAILATES, ASSE 1070 TEMPERATURE LIMITING DEVICES TO BE INCLUDED AT POINT OF USE TO PROVIDE "TEMPERED WATER", UNLESS DEVICES ARE PROVIDED AT THE IN-PLANT / PRODUCTION SOURCE AS REQUIRED BY NC PLUMBING CODE.

ELECTRIC WATER HEATER SCHEDULE						
ITEM	MANUFACTURER & MODEL NUMBER	ACCESSORIES/REMARKS	STORAGE CAPACITY (GALLONS)	RECOVERY RATE G.P.H.	ELECTRICAL REQUIREMENTS	LOCATION
EWH-1	BRADFORD WHITE MODEL # L28073.5	REFERENCE "TYPICAL WATER HEATER DETAIL"	80	31 GPH @ 80° F RISE	208, 3ø, 60W	MECH 112

HOT WATER RECIRCULATING PUMP SCHEDULE									
ITEM	MANUFACTURER & MODEL NUMBER	CAPACITY G.P.M. HEAD		TYPE	MATERIAL	ELECTRICAL REQUIREMENTS	HP	RPM	LOCATION
RCF-1	TACO MODEL # 0010	4	10	IN-LINE	STAINLESS STEEL	120V 1Ø 60HZ 1.17 AMPS	1/8	3,250	MECH 112

PLUMBING LEGEND	
	WASTE LINE
	VENT LINE
	RAIN LEADER
	OVERFLOW/RAIN LEADER
	COLD WATER (CW)
	HOT WATER (HW)
	HOT WATER RETURN (HWR)
	PUMPED DISCHARGE
	BALL VALVE
	CHECK VALVE
	VENT THROUGH ROOF

TYPICAL ELECTRIC WATER HEATER DETAIL

The diagram illustrates the installation of an electric water heater (EWH) on a water heater stand. Key components and connections include:

- Water Supply:** Hot water supply to the building and cold water supply from the building.
- Valves:** Ball valve (TYP.) and check valve (TYP.) on the cold water supply line.
- Expansion Tank:** Connected to the cold water supply line.
- Pressure Relief:** T & P relief valve connected to the EWH, with plumbing contractor piping to a janitor's sink or floor drain.
- Electrical:** EWH connected to a 120V (adjustable) power source. Includes a disconnect switch and wiring to a finished floor.
- Drainage:** Drain pan with side outlet to mop sink.
- Controls:** Aquastat (set at 10°F less than supply temp.), thermostat, and a J-box connected to a wall switch and time clock.
- Standards:** HW circulating pump, see HW recirc. pump schedule.
- Notes:** Plumber to provide and install aquastat, circulating pump, and water heater. By plumbing contractor and by electrical contractor.

WATER SERVICE DETAIL

TO FIXTURES

UNION, TYPICAL

0-100 PSI GAUGE

HOSE END DRAIN VALVE (TYPICAL)

FULL PORT BALL SHUT OFF VALVE, TYPICAL

WATTS MODEL # LFUSB-GG PRESSURE REDUCING VALVE

WATTS MODEL # LF090GT BACKFLOW PREVENTER

SOFT SEATED CHECK VALVE

Y-STRAINER

EXTERIOR WALL

IN-LINE BACKWATER VALVE

INSECT SCREEN

INDIRECT WASTE TO FLOOR DRAIN, SIZE PER MANUFACTURERS RECOMMENDATION

FINISHED FLOOR

2'

DOMESTIC WATER SERVICE UNDERSLAB

CHAMFER EDGE

FINISH GRADE

COMPACTED EARTH

2'-0" X 2'-0" X 1/8" THICK
CONCRETE COLLAR WITH
#4 RE-BAR EACH WAY
UNLESS SET IN SLAB.

CAST IRON STACK

SEE PLANS FOR
MAIN SIZE

DEPTH AS
REQUIRED.

NOTE:
WATER CLOSET FLUSH VALVE SENSOR TRANSFORMERS AND LAVATORY FAUCET SENSOR TRANSFORMERS ARE DIFFERENT. SEE PLUMBING FIXTURE SCHEDULE FOR MODEL NUMBERS. SEE PLANS FOR TRANSFORMER LOCATIONS.

ACCESS - EITHER LAY-IN CEILING, REMOVABLE LIGHT FIXTURE, OR ACCESS DOOR

120V POWER

BY E.C. BY P.C. TRANSFORMER BY P.C. AS REQ'D FOR FIXTURES

CEILING

TO WATER CLOSET / LAVATORY SINK GROUP SENSORS IN CONDUIT PER TRANSFORMER SIZE BY P.C. AS REQ'D. INSTALL 4" SO. DEEP OUTLET BOX AT EACH WATER CLOSET/LAVATORY SINK LOCATION

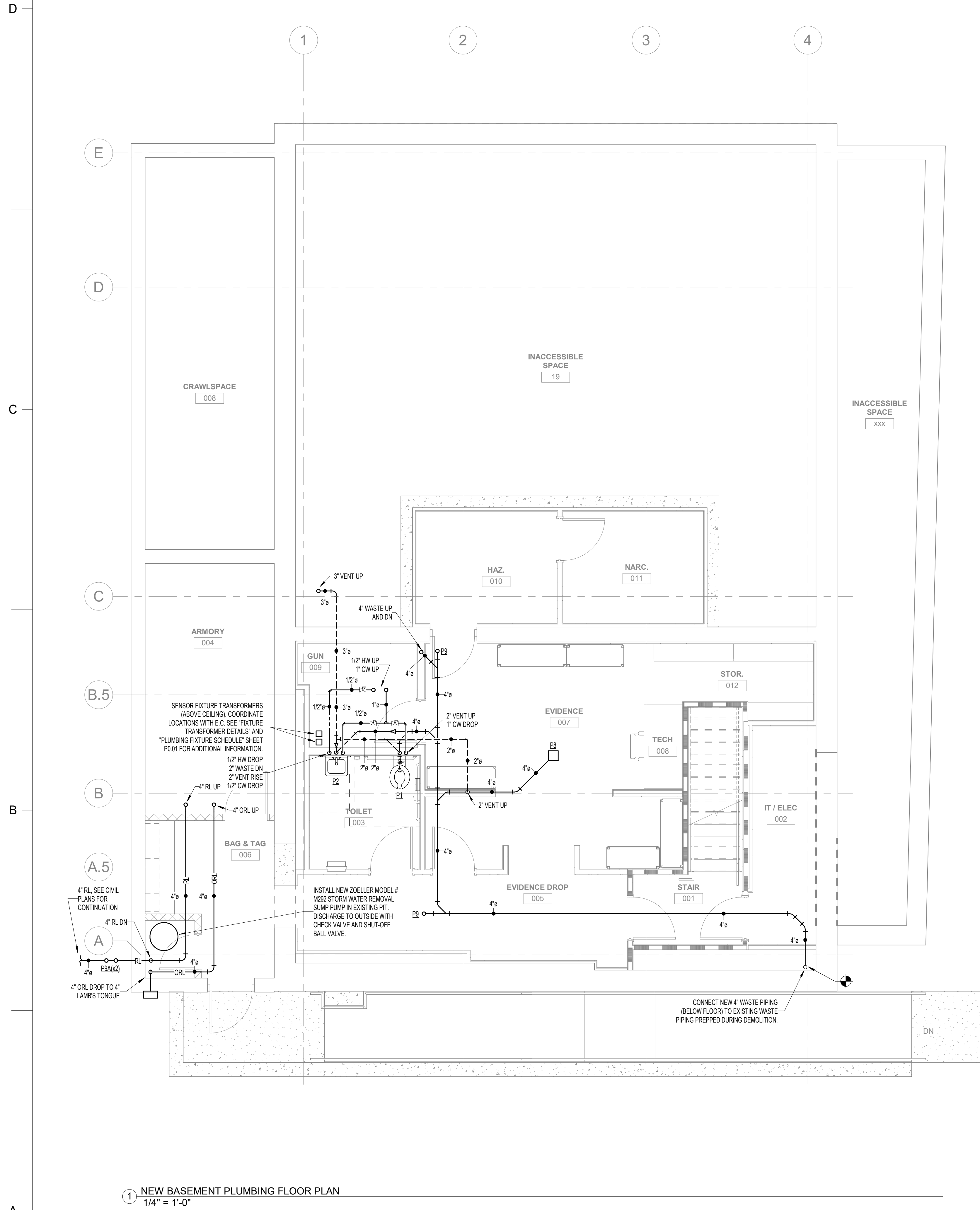
NOTE:
P.C. TO SUPPLY QTY. & TYPE OF TRANSFORMERS AS REQ'D FOR INSTALLED FIXTURES. P.C. TO EXTEND/ADD BOXES AS NEEDED FROM PROVIDED CIRCUIT.

Diagram illustrating the VENT THROUGH ROOF DETAIL. The diagram shows a cross-section of a roof assembly with a vent pipe passing through it. The roof assembly consists of a ROOF DECK and a layer below it. A VENT PIPE passes through the roof deck, and a SLEEVE WHERE REQUIRED is shown below the roof deck. The VENT PIPE is surrounded by FLASHING, which is further protected by COUNTERFLASHING. The minimum height of the counterflashing above the roof deck is 12" MIN. The minimum distance from the edge of the roof deck to the center of the vent pipe is 18" MIN.

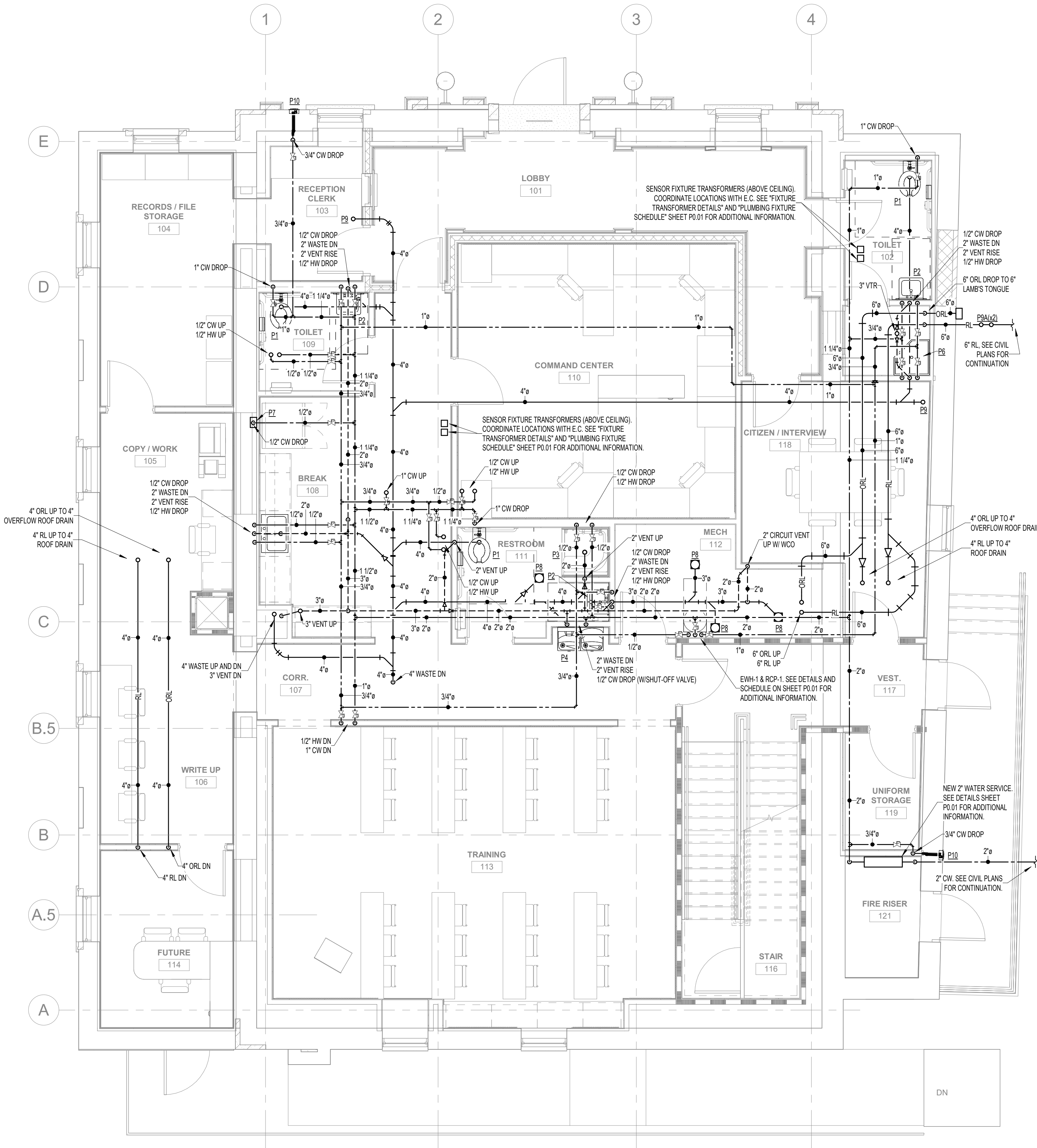
NOTE:
COORDINATE ALL OPENINGS IN THE ROOF WITH THE GENERAL CONTRACTOR. PIPING INSTALLED BY THE PLUMBING CONTRACTOR. FLASHING AND COUNTERFLASHING PROVIDED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.

CANTON POLICE STATION RENO

P0.01



1 NEW BASEMENT PLUMBING FLOOR PLAN
1/4" = 1'-0"



2 NEW FIRST FLOOR PLUMBING PLAN
1/4" = 1'-0"

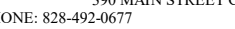


CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
Date: JULY 7, 2025

BASEMENT AND FIRST FLOOR PLUMBING PLANS



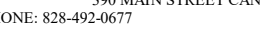
RN&M
ENGINEERS
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[illegible]

SECOND FLOOR AND ROOF PLUMBING PLAN

P1.12





RNM
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CANTON POLICE STATION RENO

[illegible]

Project Number:	2023-001-01
Date:	JULY 7, 2025

BASEMENT AND FIRST FLOOR PLUMBING DEMOLITION PLANS

PD1.11

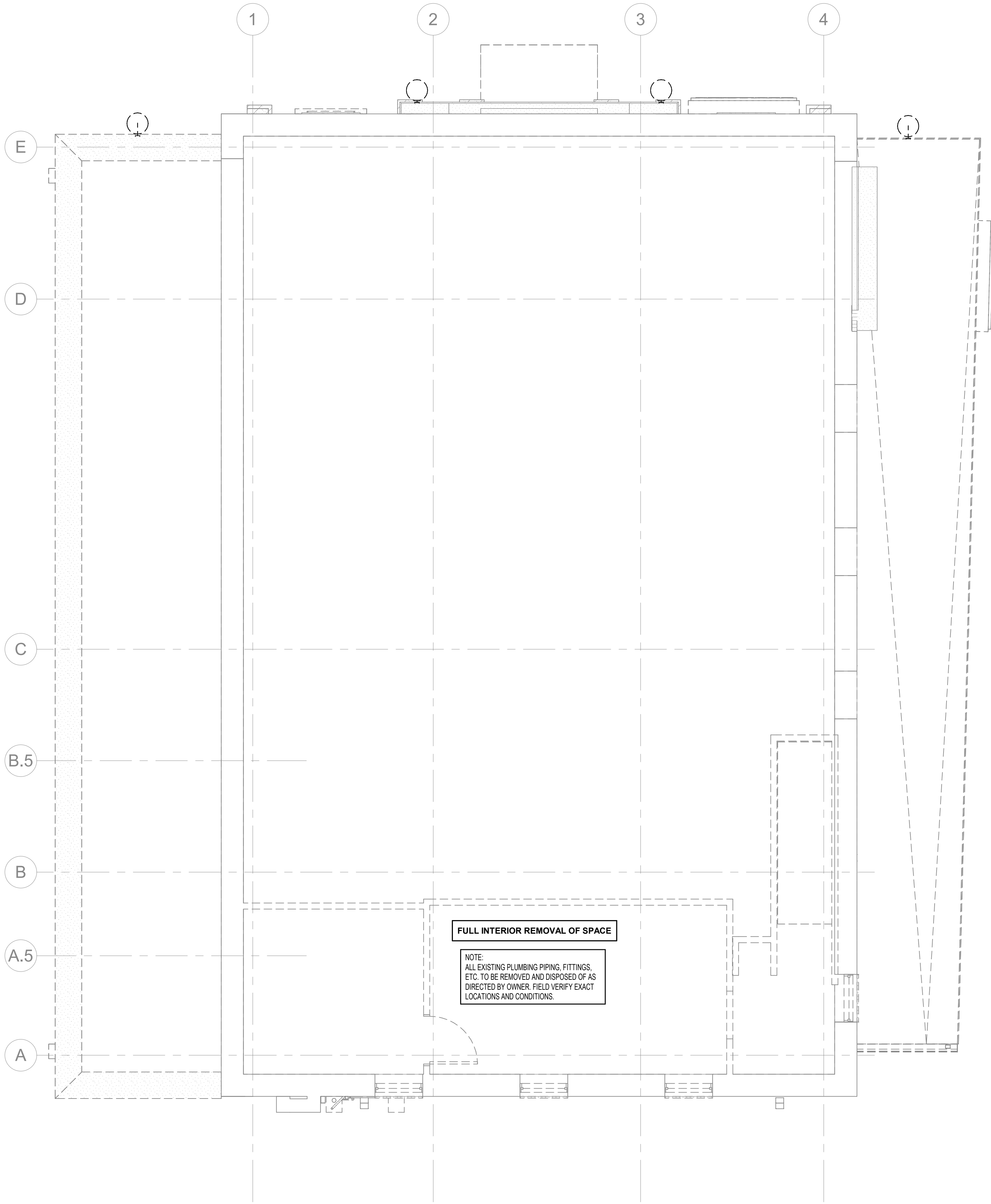


D

C

B

A



1 SECOND FLOOR PLUMBING DEMOLITION PLAN
1/4" = 1'-0"



2 ROOF PLUMBING DEMOLITION PLAN
1/4" = 1'-0"

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CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
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SECOND FLOOR
AND ROOF
PLUMBING
DEMOLITION PLAN

PD1.12

D

C

B

A

GENERAL MECHANICAL DUCTWORK NOTES

- THE DRAWINGS SHOW THE LOCATION AND ARRANGEMENT OF PIPING, DUCTS, AND EQUIPMENT, TOGETHER WITH DETAILS OF CONNECTIONS OF CERTAIN PRINCIPAL ITEMS. THE LAYOUT SHOWN SHALL BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, BUT THIS CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING, AND ELECTRICAL DRAWINGS AND SHALL COOPERATE FULLY WITH OTHER CONTRACTORS AND TRADES WHILE INSTALLING DUCTS, PIPING, AND OTHER EQUIPMENT BECAUSE OF CLOSE SPACE LIMITS. IN CASE OF CONFLICT, NOTIFY DESIGNER BEFORE PROCEEDING WITH INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF PARTITION WALLS, DOORS, CHASES, CASEWORK, ETC. DO NOT SCALE MECHANICAL DRAWINGS FOR SUCH DIMENSIONS.
- THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN OR SPECIFIED.
- DUCTWORK SIZES INDICATED ON DRAWINGS ARE FREE INSIDE DIMENSIONS.
- MAXIMUM LENGTH OF FLEXIBLE DUCT IS SIX FEET (6'). UTILIZE MEDIUM PRESSURE FLEX DUCT WHERE REQUIRED FOR MEDIUM PRESSURE.
- ALL VALVES, DAMPERS, CONTROLS, AND OTHER ITEMS REQUIRED FOR OPERATION OR MAINTENANCE ARE TO BE ACCESSIBLE AND PROPERLY LABELED.
- ALL SLEEVES, OUTLET BOXES, AND OTHER ROUGHINS FOR SUCH ITEMS AS FIRE DAMPERS, PIPE PENETRATIONS, LOUVERS, AND CONTROL ITEMS SHALL BE INSTALLED AS THE BUILDING CONSTRUCTION PROGRESSES.
- PROVIDE AND INSTALL VOLUME CONTROL DAMPERS AT ALL SUPPLY MAIN AND BRANCH DUCT TAKE-OFFS.
- PROVIDE AND INSTALL DUCT ACCESS DOORS AT ALL SMOKE DAMPERS, FIRE DAMPERS, AND DUCT SMOKE DETECTORS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS.
- THIS CONTRACTOR SHALL TAKE FIELD MEASUREMENTS BEFORE FABRICATING ANY DUCTS TO ENSURE THAT DUCT SIZES SHOWN WILL FIT INTO AVAILABLE SPACE. IN CASE OF CONFLICT, NOTIFY THE DESIGNER BEFORE PROCEEDING.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- COORDINATE LOCATIONS OF ALL FLOOR DRAINS WITH PLUMBING CONTRACTOR, PRIOR TO SLABS BEING POURED.
- COORDINATE EXACT LOCATION FOR ALL CEILING DIFFUSERS/GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL CONTRACTOR'S LIGHTING LAYOUT.
- ALL EMS SENSORS AND OTHER FIELD DEVICES MOUNTED ON WALLS TO BE PROTECTED FROM DAMAGE AS REQUIRED - INSTALL LEXAN COVERS, WIRE GUARDS, OR SIMILAR AS REQUIRED. COORDINATE CONDITIONS IN THE FIELD.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE PRIME CONTRACTOR OR GENERAL CONTRACTOR (WHERE APPLICABLE) THE QUANTITY, SIZE AND LOCATIONS OF ALL ACCESS DOORS IN WALLS, DRYWALL, CEILINGS, ETC. FOR ACCESS TO VALVES, BALANCE DAMPERS OR OTHER EQUIPMENT AS REQUIRED. COORDINATE THIS WORK WITH THE REFLECTED CEILING PLANS. ALL VALVES OR OTHER DEVICES LOCATED ABOVE THE CEILING SHALL BE LOCATED IN ACCESSIBLE CEILINGS WHEREVER POSSIBLE. VERIFY LOCATION OF ALL VALVES IN INACCESSIBLE CEILINGS OR CHASES WITH THE ENGINEER PRIOR TO INSTALLATION.
- COORDINATE EXACT SIZE, LOCATION, APPURTENANCES, ETC. FOR ALL ROOF OPENINGS WITH GENERAL CONTRACTOR.
- REFER TO STRUCTURAL DRAWINGS, DETAILS, AND EXISTING CONDITIONS FOR PERMISSIBLE LOCATIONS AND METHODS FOR HANGING DUCTWORK FROM STRUCTURE. ALL DUCTWORK HANGERS TO BE WITHIN 6" OF PANEL POINTS OF JOISTS. DO NOT WELD DUCT HANGERS/SUPPORTS TO STRUCTURE WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER AND PRIME OR GENERAL CONTRACTOR (WHERE APPLICABLE).
- COORDINATE EXACT SIZES REQUIRED FOR ALL OPENING FOR DUCTWORK AND PIPING WITH SPACE REQUIREMENTS, FIRE DAMPER INSTALLATION INSTRUCTIONS, STRUCTURAL DRAWINGS, AND THE GENERAL CONTRACTOR, PRIOR TO FRAMING FOR THE PENETRATIONS.
- THE MECHANICAL CONTRACTOR SHALL THOROUGHLY COORDINATE DUCT / PIPE PENETRATIONS AT STRUCTURAL SHEAR WALLS / SHEAR BRACINGS WITH STRUCTURAL DRAWINGS EXISTING CONDITIONS. INSTALL UNITS AS REQUIRED.
- ALL CONTROL DEVICES (SENSORS, STATs, SWITCHES, ETC.) TO GENERALLY BE LOCATED ADJACENT TO LIGHT SWITCHES IN EACH ROOM, UNLESS NOTED OTHERWISE. GENERALLY, THIS SHOULD BE AS CLOSE TO DOOR STRIKE AS POSSIBLE.
- COORDINATE EXACT LOCATION FOR ALL CEILING DIFFUSERS/GRILLES WITH REFLECTED CEILING PLAN AND LIGHTING LAYOUT, AS WELL AS OTHER ITEMS IN CEILINGS.
- ROOMS REQUIRING POSITIVE OR NEGATIVE PRESSURIZATION ARE NOTED AS SUCH (PLEASE SEE LEGEND). ALL OTHER ROOMS ARE NOT NOTATED, AND ARE TO BE NEUTRAL.
- IN GENERAL, MEDIUM PRESSURE AND LOW PRESSURE SUPPLY DUCT IS TO BE ROUTED LOW, TIGHT TO CEILING AS POSSIBLE, BUT YET STILL ALLOW FOR REMOVAL OF LIGHTING FIXTURES, HEPA FILTERS, ETC. COORDINATE EXACT ELEVATIONS IN FIELD AND WITH EXISTING CONDITIONS - ROUTE SIMILAR TO EXISTING. RETURN DUCTWORK TO ROUTED ABOVE SUPPLY, AND EXHAUST DUCTWORK ROUTED ABOVE RETURN. HOWEVER, ALL REQUIRED MANUAL DAMPERS IN RETURN AND EXHAUST DUCTWORK MUST REMAIN ACCESSIBLE THRU THE CEILING. THEREFORE, RETURN AND EXHAUST DUCTWORK ROUTED AT HIGHER ELEVATIONS MAY REQUIRE OFFSETS UP OR DOWN THAT ARE NOT SHOWN ON THE DRAWINGS IN ORDER TO MAINTAIN ACCESSIBILITY TO VOLUME DAMPERS AND OTHER SIMILAR EQUIPMENT.
- ROOFTOP AHUs HAVE BEEN COORDINATED WITH STRUCTURAL DRAWINGS WITH REGARD TO AHU LOCATIONS, STRUCTURAL SUPPORTS AND PLATFORMS, ELECTRICAL REQUIREMENTS, DUCT AND PIPING CONNECTIONS AND LOCATIONS, ETC. HOWEVER, COORDINATION IS BASED BASIS OF DESIGN (FRAME). IF AN ALTERNATE MANUFACTURER IS USED, ALL REQUIRED SUPPLY AND RETURN CONNECTIONS (DUCT AND PIPING) AND ASSOCIATED DUCT TRANSITIONS, STRUCTURAL LAYOUT, ELECTRICAL REQUIREMENTS, MUST BE COORDINATED WITH THE UNIT FURNISHED. THIS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND ALL ASSOCIATED COSTS SHALL BE THEIRS TO BEAR, AS PART OF THE CONTRACT...
- ALL CEILING MTD. SMOKE DETECTORS TO BE MOUNTED AT LEAST 4' FROM ALL CEILING GRILLES / DIFFUSERS. COORDINATE LOCATIONS FOR ALL GRILLES / DIFFUSERS WITH E.C. PRIOR TO MOUNTING.
- INTERNAL LINING OF DUCTWORK AND FILTER BOXES WILL NOT BE PERMITTED.

MECHANICAL SPECIFICATIONS

- IT IS THE INTENT OF THESE SPECIFICATIONS TO FURNISH A COMPLETE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM, FULLY ADJUSTED, AND READY FOR USE.
- ALL MECHANICAL WORK TO BE DONE IN COMPLIANCE WITH NORTH CAROLINA BUILDING CODE AND ALL LOCAL CODES.
- THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL SALES TAXES, AND OTHER COSTS, IN CONNECTION WITH HIS WORK.
- ALL MATERIAL AND EQUIPMENT THAT CAN BE U.L. LISTED SHALL BE FURNISHED FOR THIS PROJECT.
- MATERIAL AND EQUIPMENT HAS BEEN CAREFULLY SELECTED FOR THIS PROJECT AND THE CONTRACTOR IS EXPECTED TO PROVIDE ALL ITEMS AS CLOSELY AS POSSIBLE TO THE SPECIFICATIONS AND AS CALLED FOR ON THE DRAWINGS.
- SUBMIT THREE (3) SETS OF EQUIPMENT DATA SHOP DRAWINGS TO ENGINEER FOR ALL ITEMS TO BE FURNISHED AND INSTALLED FOR APPROVAL.
- THIS CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS, IN ORDER TO COMPLY WITH ALL APPLICABLE LAW, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED. NO CLAIM FOR EXTRAS WILL BE APPROVED WITHOUT PRIOR COORDINATION FOR CONFLICTS BY CONTRACTOR, AND WRITTEN REQUEST AND WRITTEN APPROVAL PRIOR TO PERFORMING WORK.
- ALL WORK AND EQUIPMENT TO BE GUARANTEED BY CONTRACTOR FOR ONE (1) YEAR. AN ADDITIONAL FOUR (4) YEAR WARRANTY SHALL BE PROVIDED ON ALL COMPRESSORS.
- ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND GOOD RECOMMENDED PRACTICES.
- ALL WORK AND MATERIALS SHALL MEET APPROVAL OF ARCHITECT/ENGINEER.
- THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES. WHERE THE WORK OF THIS CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR WILL INTERFERE WITH WORK OF OTHER TRADES, HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS. IF THIS CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. DRAWINGS ARE NOT TO BE SCALED.
- ALL DUCTWORK TO BE FABRICATED FROM GALVANIZED SHEET METAL AND INSTALLED ACCORDING TO REQUIREMENTS OF NFPA 90A, SMACNA, AND ASHRAE GUIDE AND DATA BOOKS.
- ALL FLEXIBLE DUCTWORK, FOR CONNECTIONS BETWEEN DIFFUSERS AND BRANCH DUCTS WHERE INDICATED, TO BE THERMAFLEX TYPE "MK".
- ALL DUCT SEAMS TO BE TAPED WITH FASSON #AFTS-1003 SMAOCA TAPE, OR EQUAL.
- VOLUME CONTROL DAMPERS (BALANCING) SHALL BE INSTALLED IN EACH BRANCH OR ZONE DUCT.
- DAMPERS WHICH ARE PART OF A MANUFACTURED AIR GRILLE DO NOT MEET THIS REQUIREMENT.
- ALL SQUARE ELBOWS SHALL HAVE TURNING VANES INSTALLED. TURNING VANES SHALL BE APPLIED EQUALLY TO THE RETURN AIR SIDE.
- DUCTWORK SIZES INDICATED ON DRAWINGS ARE AS REQUIRED FOR FREE INSIDE AREAS.
- ALL DUCTWORK TO BE INSULATED WITH 2" BLANKET TYPE INSULATION 1 LB. DENSITY (MIN. R-6.5) WITH VAPOR BARRIER JACKET OF .002 INCH THICK ALUMINUM FOIL LAMINATED.
- FOR SOUND CONTROL, RETURN AIR DUCTWORK FROM GRILLE TO PLENUM TO BE LINED WITH 1" DUCT LINER (IN ADDITION TO WRAP). LINER TO BE CERTAINTED TOUGHGUARD WITH ANTI-MICROBIAL COATING (OR APPROVED EQUAL).
- ALL PIPING AND DUCTWORK TO BE SUSPENDED WITH APPROPRIATE HANGERS, INSTALLED AND SPACED PER NC MECHANICAL CODE.
- AIR HANDLING EQUIPMENT SHALL BE ISOLATED FROM DIRECT CONTACT WITH SUPPLY OR RETURN AIR DUCTWORK. FLEXIBLE CONNECTIONS SHALL BE INSTALLED BETWEEN THE EQUIPMENT AND DUCT. FLEXIBLE CONNECTIONS SHALL BE MADE OF APPROVED FLAMEPROOFED FABRIC OR OTHER APPROVED NON-COMBUSTIBLE MATERIAL.
- EACH HEATING AND/OR COOLING SYSTEM SHALL HAVE A DEVICE, OR DEVICES, FOR CLEANING OR FILTERING BOTH RETURN AND OUTDOOR AIR.
- LOW VOLTAGE WIRING (50 VOLTS OR LESS) WITHIN A STRUCTURE SHALL BE INSTALLED IN A MANNER TO PREVENT PHYSICAL DAMAGE. SUCH WIRING EXPOSED TO WEATHER SHALL BE INSTALLED BY A METHOD APPROVED FOR EXTERIOR USE.
- T & B SUBCONTRACTOR TO PERFORM ALL ADJUSTMENTS AND BALANCING OF SYSTEMS, EQUIPMENT, CONTROLS, ETC., NECESSARY FOR THE SYSTEM TO PROVIDE THE REQUIRED PERFORMANCE AND TO OPERATE SAFELY. SUBMIT "AS-BUILT" DRAWINGS TO ENGINEER SHOWING ACTUAL AIR FLOWS AT EACH GRILL INSTALLED UNDER THIS CONTRACT. SUBMIT T & B REPORT. TEST AND BALANCE AGENCY TO BE NEBB OR AABC CERTIFIED.
- IN ATTICS, ABOVE CEILING OR OTHER AREAS WHERE CONDENSATE DAMAGE MAY OCCUR, AN AUXILIARY DRAIN PAN SHALL BE INSTALLED UNDER THE COOLING AND / OR HEATING EQUIPMENT, WITH PAN AND EQUIPMENT HAVING SEPARATE DRAINS.
- UPON COMPLETION OF ALL WORK AND ALL TESTS, INSTRUCT THE OWNER OR HIS REPRESENTATIVE FULLY IN THE OPERATIONS, ADJUSTMENTS, AND MAINTENANCE OF ALL EQUIPMENT FURNISHED.

LEGEND

- A
275
- CEILING SUPPLY DIFFUSER, TYPE AND CFM
- F
450
- CEILING RETURN GRILLE, TYPE AND CFM
- E
95
- CEILING EXHAUST GRILLE, TYPE AND CFM INDICATED
- TYPE
G
- CEILING RETURN GRILLE, TYPE INDICATED
- P
605
- SIDEWALL OR SIDE OF DUCT SUPPLY DIFFUSER, TYPE AND CFM
- J
625
- SIDEWALL OR SIDE OF DUCT RETURN GRILLE, TYPE AND CFM
- 24x12
- RECTANGULAR DUCT, WIDTH x DEPTH
- Ø8
- ROUND OR SPIRAL DUCT, DIAMETER
-
- DUCT BALANCE DAMPER
-
- DUCT TRANSITION
-
- DUCT TAKEOFF AT 45 DEGREES
-
- DUCT SQUARE ELBOW WITH TURNING VANES
- 12'0"
- FLEXIBLE DUCT, MAXIMUM 6' LENGTH
-
- MOTORIZED CONTROL DAMPER
-
- EMS TEMPERATURE SENSOR, MOUNTED 48" A.F.F.
-
- EMS HUMIDITY SENSOR, MOUNTED 48" A.F.F.
-
- FIRE-SMOKE DAMPER
-
- FIRE DAMPER
-
- MOTORIZED OPERATOR
-
- DUCT SMOKE DETECTOR (FURNISHED AND WIRED BY E.C. - INSTALLED BY M.C.)
-
- (+)
- POSITIVE TO ADJACENT SPACES
-
- (-)
- NEGATIVE TO ADJACENT SPACES
-
- ROOM PRESSURIZATION MONITOR

PIPING LEGEND

- G
- NATURAL GAS PIPING
- CD
- CONDENSATE DRAIN PIPING
-
- SHUT-OFF VALVE
-
- M
- MOTORIZED OPERATOR

Outside Air Schedule	
AHU #	CFM
AHU-1	80
AHU-2	40
AHU-3	80
AHU-4	200
AHU-5	100
AHU-6	100

MECHANICAL SUMMARY - MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT	
THERMAL ZONE 4A	
WINTER DRY BULB	11°F
SUMMER DRY BULB	88°F
INTERIOR DESIGN CONDITIONS	
WINTER DRY BULB	70°F
SUMMER DRY BULB	75°F
RELATIVE HUMIDITY	50%
BUILDING HEATING LOAD	320,000 BTUH
BUILDING COOLING LOAD	18 TONS
MECHANICAL SPACING CONDITIONING SYSTEM	
UNITARY	
DESCRIPTION OF UNIT	REFER TO EQUIPMENT SCHEDULES FOR EFFICIENCIES
HEATING EFFICIENCY	
COOLING EFFICIENCY	
SIZE CATEGORY OF UNIT	
BOILER	
TOTAL BOILER OUTPUT, IF OVERSIZED STATE REASON	N/A
CHILLER	
TOTAL CHILLER CAPACITY, IF OVERSIZED STATE REASON	N/A
LIST EQUIPMENT EFFICIENCIES, REFER TO EQUIPMENT SCHEDULES FOR EFFICIENCIES	

NATURAL GAS LOAD SUMMARY	
ROOFTOP AIR HANDLING UNIT	200,000 BTUH
FURNACES	240,000 BTUH
TOTAL	440,000 BTUH
1. GAS PIPING SIZED FOR A NATURAL GAS AT 2 PSIG INLET PRESSURE WITH A PRESSURE DROP OF 1 PSIG.	
2. THIS CONTRACTOR TO PROVIDE GAS PRESSURE REGULATOR AND SHUT-OFF VALVE FOR NEW RTU AS REQUIRED.	
3. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH UPGRADING GAS SERVICE TO THE BUILDING (AS REQUIRED) AND FOR PROVIDING GAS SERVICE TO NEW EQUIPMENT. COORDINATE WITH THE GAS UTILITY COMPANY, AND EXISTING CONDITIONS.	

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CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
Date: JULY 7, 2025

MECHANICAL SUMMARY AND NOTES

M0.01

MINI-SPLIT INDOOR UNIT SCHEDULE		
System Tag		OU-1
Tag Reference		IU-1
Nominal Data	Room Name	104
	M-NET Address	N/A
	Model	PKA-AL18NL
	Type	Wall -Mounted
	Nominal Cooling Capacity (BTU/h)	18,000
	Nominal Heating Capacity (BTU/h)	23,600
Design Conditions	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	80.0/67.0
	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	70.0
	Cooling Diversity Full/Partial (See Note 5, 6)	FULL DEMAND
	Heating Diversity Full/Partial (See Note 5, 6)	FULL DEMAND
	Refrig Pipe Dim Liquid/Suction (inch)	1/4 / 1/2
Performance Data	Cooling Total Capacity (BTU/h)	17,859.5
	Cooling Sensible Capacity (BTU/h)	11,182.7
	Heating Capacity (BTU/h)	0.0
	Estimated Cooling Coil LAT (°F) / [LWT]	56.5
	Estimated Heating Coil LAT (°F) / [LWT]	70.0
Fan / Water Flow Data	Fan Speed Setting	HIGH
	Peak Fan Airflow (cfm) / [Design gpm]	450
	Max Fan ESP Setting 208V/230V (IN WG)	
	Sound Pressure Per Fan Speed 208V/230V (dBA)	34-39-44-48
Electrical Data	Voltage / Phase	208/230V/1-phase
	Power Cooling 208V/230V (kW)	
	Power Heating 208V/230V (kW)	
	Electrical MCA/MFS	Powered by Outdoor
	Condensate Removal Rate (gal/hr)	0.39
	Actual Port Assignments	
Notes / Options	Applicable System Notes - See Notes Below	1 - 7

- Notes & Options:
- 1 Basis of Design is Mitsubishi-Trane. Comparable Products by Daikin and Samsung.
 - 2 Normal cooling capacities are based on indoor coil EAT of 60/67°F (DBWB), outdoor of 95°F (DB).
 - 3 Normal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB).
 - 4 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities.
 - 5 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
 - 6 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system. Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply.
 - 7 It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
 - 8 It is recommended to always base heating corrected capacity on full demand.
 - 9 Furnish with Blue Diamond MicroBo condensate pump

MINI-SPLIT OUTDOOR UNIT SCHEDULE		
System Tag		OU-1
Tag Reference		OU-1
Nominal Data	M-NET Address	N/A
	Model Number	PUZ-AK18NL
	Modules	
	Nominal Cooling Capacity (BTU/h)	18,000
	Nominal Heating Capacity (BTU/h)	23,000
	Cooling Efficiency (I)EER [SEER]	0 []
	EER2 [SEER2]	13.7 [20.1]
	Heating COP @ 47°F [HSFP]	0 [8.8]
Design Conditions	Nom System Connected Capacity (% of NOM)	100.0 %
	Design Cooling Outdoor Temp DB (°F)	95.0
	Design Heating Outdoor Temp WB (°F)	43.0
	Max Pipe Length from BC or 1st Joint (feet)	0.0
Performance Data	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	1/4 / 1/2
	Corrected Cooling Total Capacity (BTU/h)	17,859.5
	Corrected Heating Capacity (BTU/h)	21,936.5
Compressor Data	Sound Pressure (dBA)	44/46
	Compressor Type	
	Compressor Quantity	
Preliminary Added Field Charge (See Note 5)		0.0
Electrical Data	Voltage / Phase	208/230V / 1-phase
	MCA 208/230 or [460V]	16
	Recommended Fuse Size (RFS)	20
	MOCP	27
Notes / Options	Applicable System Notes - See Notes Below623:B27B31B24:B27	1 - 10

- Notes & Options:
- 1 Basis of Design is Mitsubishi-Trane. Comparable Products by Daikin and Samsung.
 - 2 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DBWB), outdoor of 95°F (DB).
 - 3 Nominal heating capacities are based on indoor coil EAT of 70°F (DBWB), outdoor of 43°F (WB).
 - 4 Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
 - 5 For systems with multiple modules, refrigerant pipe dimensions installed total system combined piping downstream of module twinning.
 - 6 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.
 - 7 Factory representatives shall review the project prior to and throughout the installation of CITY MULTI equipment.
 - 8 Factory representatives shall startup and commission CITY MULTI equipment upon completion of equipment installations.
 - 9 Factory representatives shall provide on-site assistance for the O&M installation of the CITY MULTI equipment.
 - 10 Factory representatives shall provide end-user training on the CITY MULTI equipment upon completion of the installation of equipment.
 - 11 Provide Wind Baffle Kit for Cooling to -40°F

Split System Air Handling Unit Schedule																	
Unit Tags	Furnace + Cased Coil Model Number	Cooling airflow (cfm)	Cooling net total capacity (Btuh)	Cooling net sensible capacity (Btuh)	Cooling net latent capacity (Btuh)	Calculated cooling LDB (F)	Calculated cooling LWB (F)	Heating airflow (cfm)	Heating system net capacity (Btuh)	Heating system LDB (F)	Furnace Input (Mbh)	Furnace Output (Mbh)	AFUE	Poise Option	Voltage	MCA	MOCP
AHU-1	S9XB1B040YPSB + 5TXCB003AS3HC	800	19,307	13,254	6,053	57.7	56.1	800	10,118	85.61	40	38.8	96	Uplow	120/60/1	8.8	15
AHU-2	S9XB1B040YPSB + 5TXCB003AS3HC	800	19,307	13,254	6,053	57.7	56.1	800	10,118	85.61	40	38.8	96	Uplow	120/60/1	8.8	15
AHU-3	S9XB1B040YPSB + 5TXCB003AS3HC	800	22,822	16,858	5,964	60.3	57.8	800	12,466	84.3	40	38.8	96	Downflow	120/60/1	8.8	15
AHU-4	S9XB1B040YPSB + 5TXCB003AS3HC	800	22,800	17,100	5,700	59.9	57.9	800	12,320	84.3	40	38.8	96	Downflow	120/60/1	8.8	15
AHU-5	S9XB1B040YPSB + 5TXCB003AS3HC	1,025	28,721	22,455	6,266	57.9	56.4	1,025	15,542	85.4	40	38.8	96	Uplow	120/60/1	8.8	15
AHU-6	S9XB1B040YPSB + 5TXCB003AS3HC	750	23,958	17,563	6,395	58	56.5	750	12,915	85.9	40	38.8	96	Uplow	120/60/1	8.8	15

Notes:
Basis of Design is Trane. Comparable products by Carrier and Daikin.
Design Cooling: 90°F; Design Heating: 10°; Design Elevation: 2,000 ft.
Refrigerant to be R-454B.

Mark	System Type	Manufacturer	Model	Description	Type	Size
A	Supply Air	Price Industries	SCD Series	Square Cone Diffuser	24x24, 6"	6"ø
B	Supply Air	Price Industries	SCD Series	Square Cone Diffuser	24x24, 8"	8"ø
C	Supply Air	Price Industries	SCD Series	Square Cone Diffuser	24x24, 10"	10"ø
D	Supply Air	Price Industries	620 Series	Lower Face Grille Supply	620 S - 0.5	12"ø
E	Supply Air	Price Industries	620 Series	Lower Face Grille Supply	620 S - 0.5	16"ø
F	Supply Air	Price Industries	620 Series	Lower Face Grille Supply	620 S - 0.5	18"ø
G	Supply Air	Price Industries	620 Series	Lower Face Grille Supply	620 S - 0.5	24"ø
H	Return Air	Price Industries	PDDR Series	Perforated Diffusers Ducted Return	24x24, 6"	6"ø
J	Return Air	Price Industries	PDDR Series	Perforated Diffusers Ducted Return	24x24, 10x10	10"x10"
K	Return Air	Price Industries	PDDR Series	Perforated Diffusers Ducted Return	24x24, 12x12	12"x12"
L	Return Air	Price Industries	PDDR Series	Perforated Diffusers Ducted Return	24x24, 14x14	14"x14"
M	Exhaust Air	Price Industries	635 Series	Lower Face Grille Return	635 S - 0.5	12"ø
N	Exhaust Air	Price Industries	635 Series	Lower Face Grille Return	635 S - 0.5	16"ø
P	Return Air	Price Industries	635 Series	Lower Face Grille Return	635 S - 0.5	18"ø
Q	Return Air	Price Industries	PDDR Series	Perforated Diffusers Ducted Return	12x12, 6x6	6"ø
R	Exhaust Air	Price Industries	PDDR Series	Perforated Diffusers Ducted Return	24x24, 6x6	6"ø

NOTES:
1. ALL GRILLES / DIFFUSERS SERVING LOCKERS, KITCHEN, TOILETS AND JAN. CLOSETS TO HAVE ALUMINUM CONSTRUCTION.
2. ALL GRILLE DESIGNATIONS MAY NOT BE UTILIZED ON THIS PROJECT.
3. BASIS OF DESIGN - PRICE; COMPARABLE PRODUCTS BY: METALAIR AND KRUEGER.

ELECTRIC WALL HEATER SCHEDULE							
Mark	Manufacturer	Model	Description	Watts	Btuh output	Air Flow	V / Ph / Hz
EWH-1	Markel	3420	Commercial Fan-Forced Wall Heater	1500	5120	100 CFM	120 / 1 / 60
EWH-2	Markel	3420	Commercial Fan-Forced Wall Heater	1500	5120	100 CFM	120 / 1 / 60

COMPARABLE PRODUCTS BY QMARK AND MODINE.

Fan Schedule													
TAG	LOCATION	AREA SERVED	MODEL	DRIVE TYPE	VOLUME (CFM)	TOTAL EXTERNAL SP	FAN SPEED (RPM)	OPERATING POWER (HP)	FEI	MOTOR SIZE (HP)	V/C/P	SONES (INLET)	NOTES
EF-1	ROOF	EVIDENCE STORAGE	CUE-140-VG	Direct	2,000	0.750	1,433	0.53	-	3/4	115/60/1	12.0	1, 2, 3, 4, 5
EF-2	ROOF	TOILETS	G-099-VG	Direct	475	1.000	1,600	0.16	-	1/4	115/60/1	9.5	2, 3, 4, 5, 6

NOTES

1. On program Control
2. Backdraft damper, gravity operated
3. Birdscreen
4. Roof Curb, 12 inch, insulated
5. Solid State Speed Control
6. Fan to run continuously

Intake Hood Schedule														
TAG	LOCATION	AREA SERVED	MODEL	APPLICATION	CFM	PRESSURE DROP (IN. WG)	THROAT VELOCITY (FT/MIN)	THROAT SIZE (IN)	THROAT AREA (SQ FT)	HOOD WIDTH (IN)	HOOD LENGTH (IN)	HEIGHT (IN)	WEIGHT (LBS)	NOTES
IH-1	ROOF	AHU'S	GRSI-15	Intake	600	0.047	536	15	1.1	29	0	10	32	

NOTES

1. Backdraft damper, gravity operated
2. Insectscreen
3. Roof Curb, 12 inch, insulated

Dedicated Outdoor Air Unit Schedule																											
TAG DOAS-1	Basis of Design Frame	Model Number OAD	Ambient		Supply Fan				DX Cooling Coil							Hot Gas Reheat Coil				Gas Heat				Electrical			
			EAT Condenser (DB °F)	Supply Air (CFM)	Design OA Air (CFM)	External Static Pressure (in-wg)	Motor HP	TOT Capacity (MBH)	SENS Capacity (MBH)	EAT (DB/WS °F)	LAT (DB/WS °F)	Dew Point (DP °F)	MRC (lbs +H2O/hr.)	MRE (Btu/Wh)	EAT (DB °F)	LAT (DB °F)	Dew Point (DP °F)	Capacity (MBH)	Capacity (MBH)	Input (MBH)	EAT (DB °F)	LAT (DB °F)	Volts/PH	MCA	MOP		
			88	1935	1935			123.4	78.4			88/71	49.8	49.5	42.4	4.96	48	91.2	49.5	214.4	160	200	15	91.2	208/3	57.2	80

- Notes
- Provide modulating Hot Gas Reheat with 6" gap between the evaporator coil and HGR Coil for equipment and control component access.
- Unit must maintain scheduled supply air dew point ($\leq -0.30^{\circ}\text{F}$) and maintain Hot Gas Reheat LAT to operate between 70°F - 75°F at all ambient conditions $> 55^{\circ}\text{F}$ DPT.
- Unit must be thermal break construction with 2" thick mineral insulation on an R-value of 13. Roof, walls, access doors and unit Base shall be 2" Double Wall.
- Under-floor shall be insulated with R-13 and covered with galvanized steel sub-floor properly sealed to act as a vapor barrier.
- Provide sloped stainless steel drain pan under evaporator coil.
- Unit control shall be fully programmable. Backlit ready, with color touch screen graphical display. Unit manufacturer shall be responsible for sequence of operation.
- Provide control and devices factory mounted and wired to unit controller/terminal strip.
- Supply fan piece rings and transducer shall be factory mounted and wired to the unit controller to display CFM.
- Each refrigerant circuit shall include a variable capacity scroll compressor.
- Each condenser fan motor powered by variable frequency drive for active head pressure control.
- Supply fan motors shall be direct drive with factory installed Variable Frequency Drive.
- Start Up, warranty, and all service shall be provided by technicians employed by the unit manufacturer.

Split System Heat Pump Schedule												
Unit Tags	Model Number	SEER2 @ AHR1 (btuh/watt)	EER2 @ AHR1 (EER)	Heat pump nominal capacity (Mbh)	Heating capacity @ 47F (Btuh)	COP @ 47F ODBB (COP (kW/kW))	Heating capacity 17F (Btuh)	COP @ 17F ODBB (COP (kW/kW))	HSPF2 @ AHR1 (btuh/watt)	Voltage	MCA	MOCP
HP-1	5TWR4018A1	14.3	11.7	18	18,400	3.9	11,800	2.5	7.5	230/60/1	12	20
HP-2	5TWR4019A1	14.3	11.7	18	18,400	3.9	11,800	2.5	7.5	230/60/1	12	20
HP-3	5TWR4024A1	14.3	11.7	24	21,200	3.7	14,100	2.6	7.5	230/60/1	13	20
HP-4	5TWR4024A1	14.3	11.7	24	21,200	3.7	14,100	2.6	7.5	230/60/1	13	20
HP-5	5TWR4030A1	14.3	11.7	30	26,200	3.7	22,450	2.5	7.5	230/60/1	16	25
HP-6	5TWR4024A1	14.3	11.7	24	21,200	3.7	14,100	2.6	7.5	230/60/1	13	20

Notes:
Basis of Design is Trane. Comparable products by Carrier and Daikin.
Design Cooling: 90°F; Design Heating: 10°; Design Elevation: 2,000 ft.

Split System Air Handling Unit Schedule																	
Unit Tags	Furnace + Cased Coil Model Number	Cooling airflow (cfm)	Cooling net total capacity (Btuh)	Cooling net sensible capacity (Btuh)	Cooling net latent capacity (Btuh)	Calculated cooling LDB (F)	Calculated cooling LWB (F)	Heating airflow (cfm)	Heating system net capacity (Btuh)	Heating system LDB (F)	Furnace Input (Mbh)	Furnace Output (Mbh)	AFUE	Poise Option	Voltage	MCA	MOCP
AHU-1	S9XB1B040YPSB + 5TXCB003AS3HC	800	19,307	13,254	6,053	57.7	56.1	800	10,118	85.61	40	38.8	96	Uplow	120/60/1	8.8	15
AHU-2	S9XB1B040YPSB + 5TXCB003AS3HC	800	19,307	13,254	6,053	57.7	56.1	800	10,118	85.61	40	38.8	96	Uplow	120/60/1	8.8	15
AHU-3	S9XB1B040YPSB + 5TXCB003AS3HC	19,065	22,822	16,858	5,964	60.0	57.8	800	12,466	84.3	40	38.8	96	Downflow	120/60/1	8.8	15
AHU-4	S9XB1B040YPSB + 5TXCB003AS3HC	800	22,800	17,100	5,700	59.9	57.9	800	12,320	84.3	40	38.8	96	Downflow	120/60/1	8.8	15
AHU-5	S9XB1B040YPSB + 5TXCB003AS3HC	1,025	28,721	22,455	6,266	57.9	56.4	84	15,542	85.9	40	38.8	96	Uplow	120/60/1	8.8	15
AHU-6	S9XB1B040YPSB + 5TXCB003AS3HC	750	23,958	17,563	6,395	58	56.5	750	12,915	85.9	40	38.8	96	Uplow	120/60/1	8.8	15

Notes:
Basis of Design is Trane. Comparable products by Carrier and Daikin.
Design Cooling: 90°F; Design Heating: 10°; Design Elevation: 2,000 ft.
Refrigerant to be R-454B.

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CANTON POLICE STATION RENO

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MECHANICAL SCHEDULES

M0.02



CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS
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Date: JULY 7, 2025

BASEMENT AND
FIRST FLOOR
MECHANICAL
PLANS

M1.11

2 FIRST FLOOR MECHANICAL PLAN
1/4" = 1'-0"

1 BASEMENT FLOOR MECHANICAL PLAN
1/4" = 1'-0"

CANTON POLICE STATION RENO

No.	Description	Date

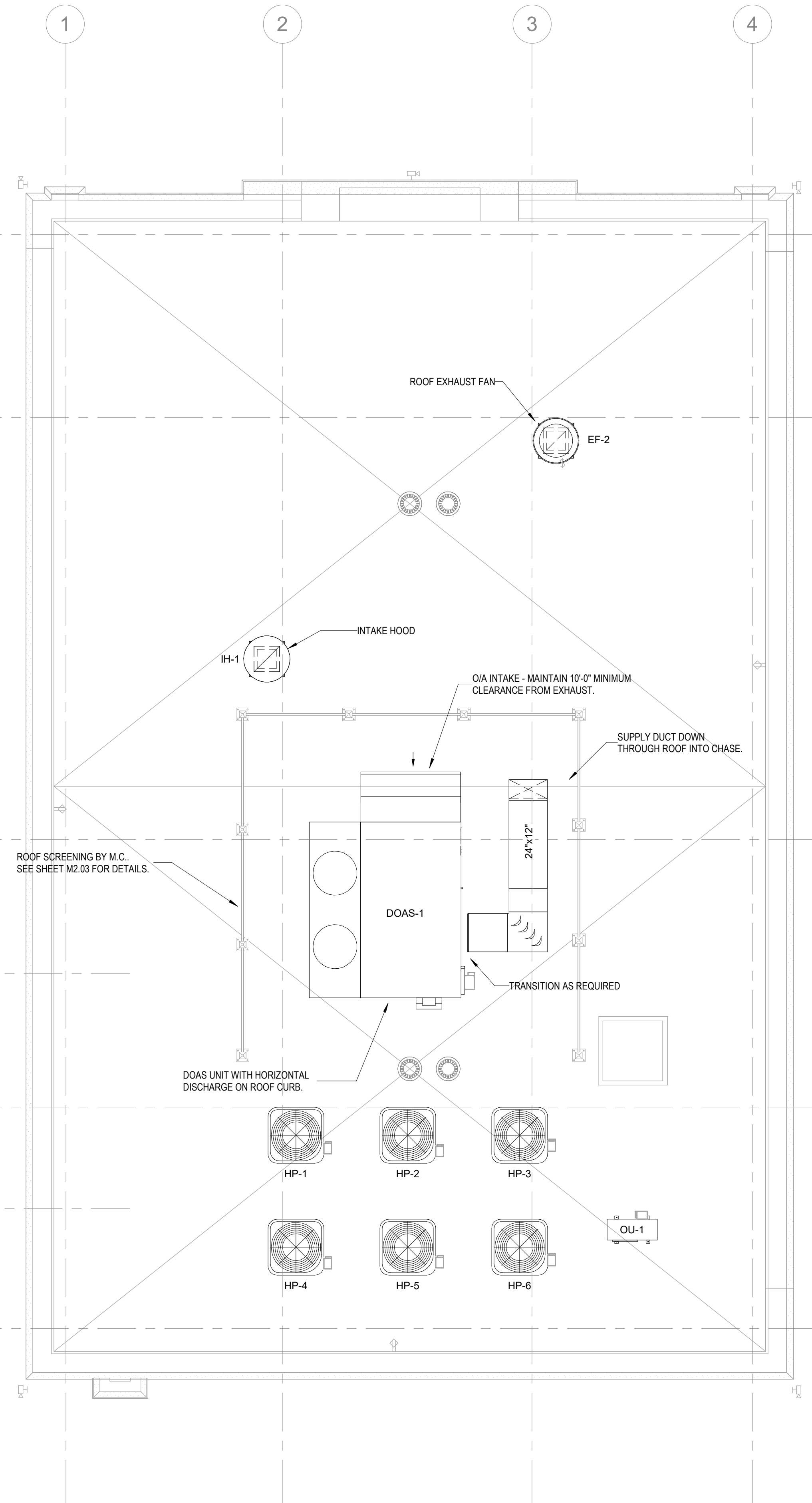
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Project Number: 2023-001-01

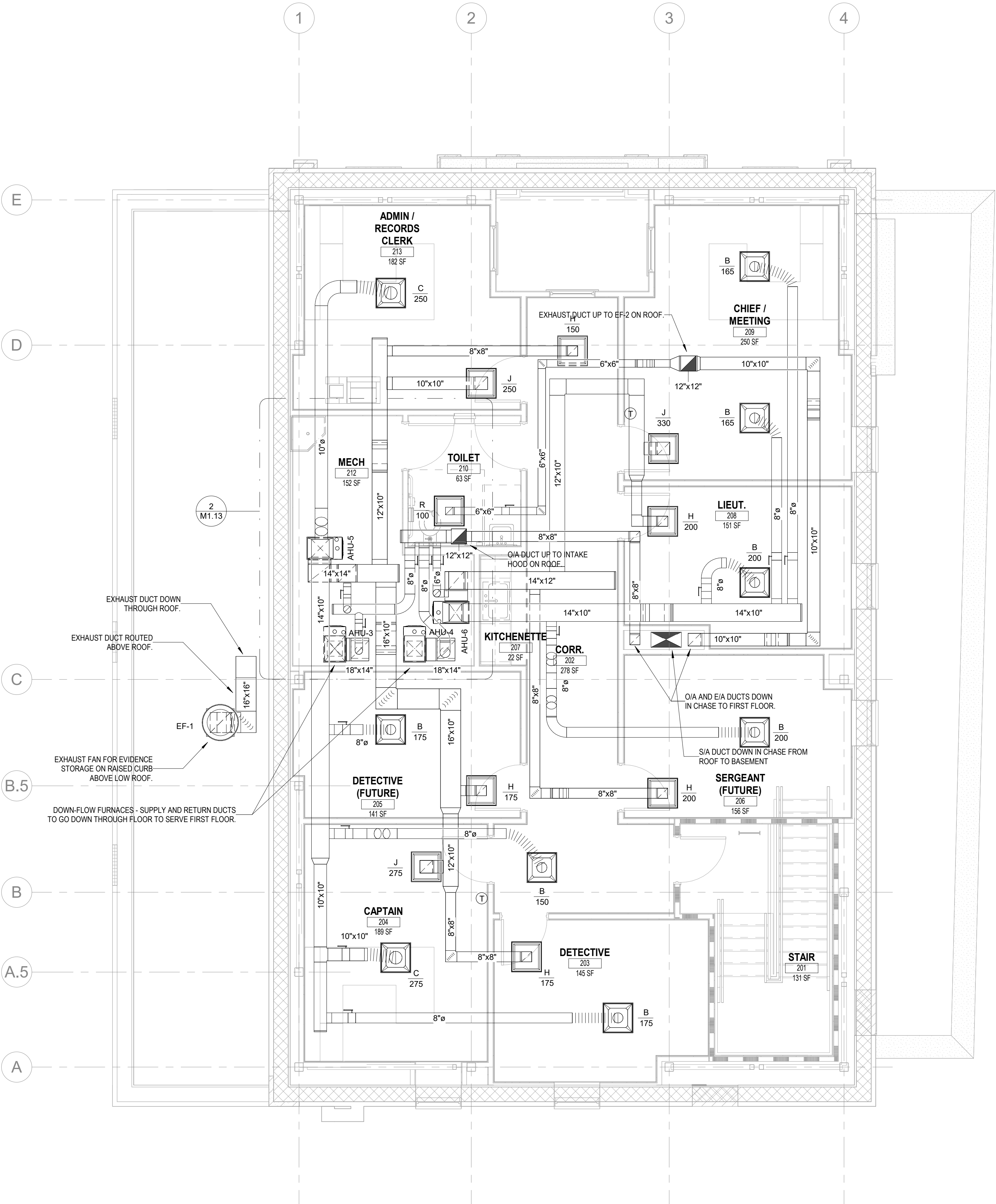
Date: JULY 7, 2025

SECOND FLOOR
AND ROOF
MECHANICAL
PLANS

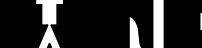
M1.12



2 ROOF MECHANICAL PLAN
1/4" = 1'-0"



1 SECOND FLOOR MECHANICAL PLAN
1/4" = 1'-0"



R&M
ENGINEERS

Reece, Noland & McElrath, Inc.

790 MAIN STREET CANTON, NORTH CAROLINA 28716

PHONE: 328-492-0677 NC 2018 CERT NO. C-0149
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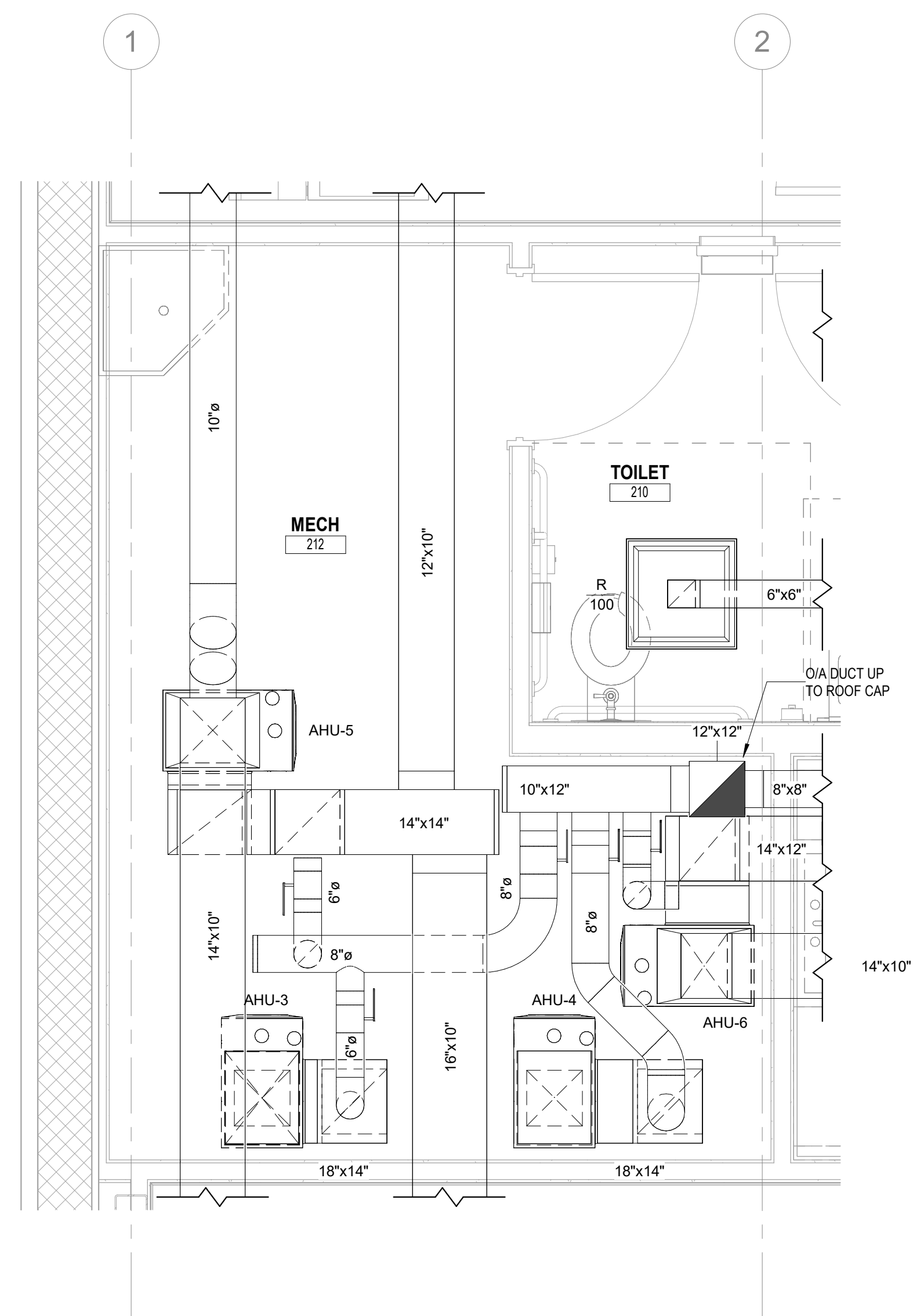
CANTON POLICE STATION RENO

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Project Number:	2023-001-01
Date:	JULY 7, 2025

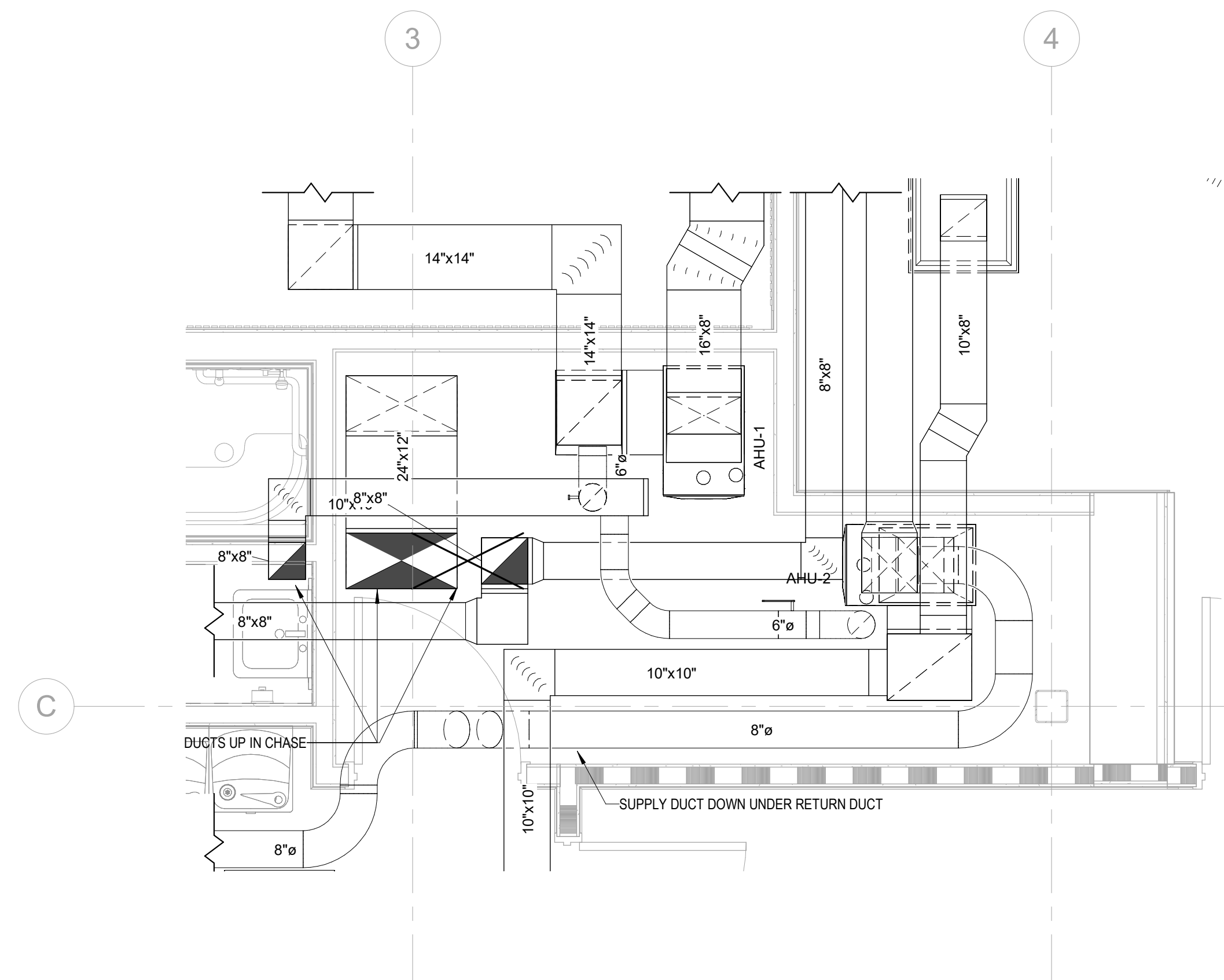
LARGE SCALE MECHANICAL ROOM PLANS

M1.13



② SECOND FLOOR MECHANICAL ROOM PLAN
1/2" = 1'-0"

NOTE:
ALL AIR HANDLERS TO HAVE BALANCE DAMPER IN
RETURN DUCT AND OUTSIDE AIR DUCT TO ENABLE
BALANCING OF OUTSIDE AIR.



1 FIRST FLOOR MECHANICAL ROOM PLAN
1/2" = 1'-0"



CANTON POLICE STATION RENO

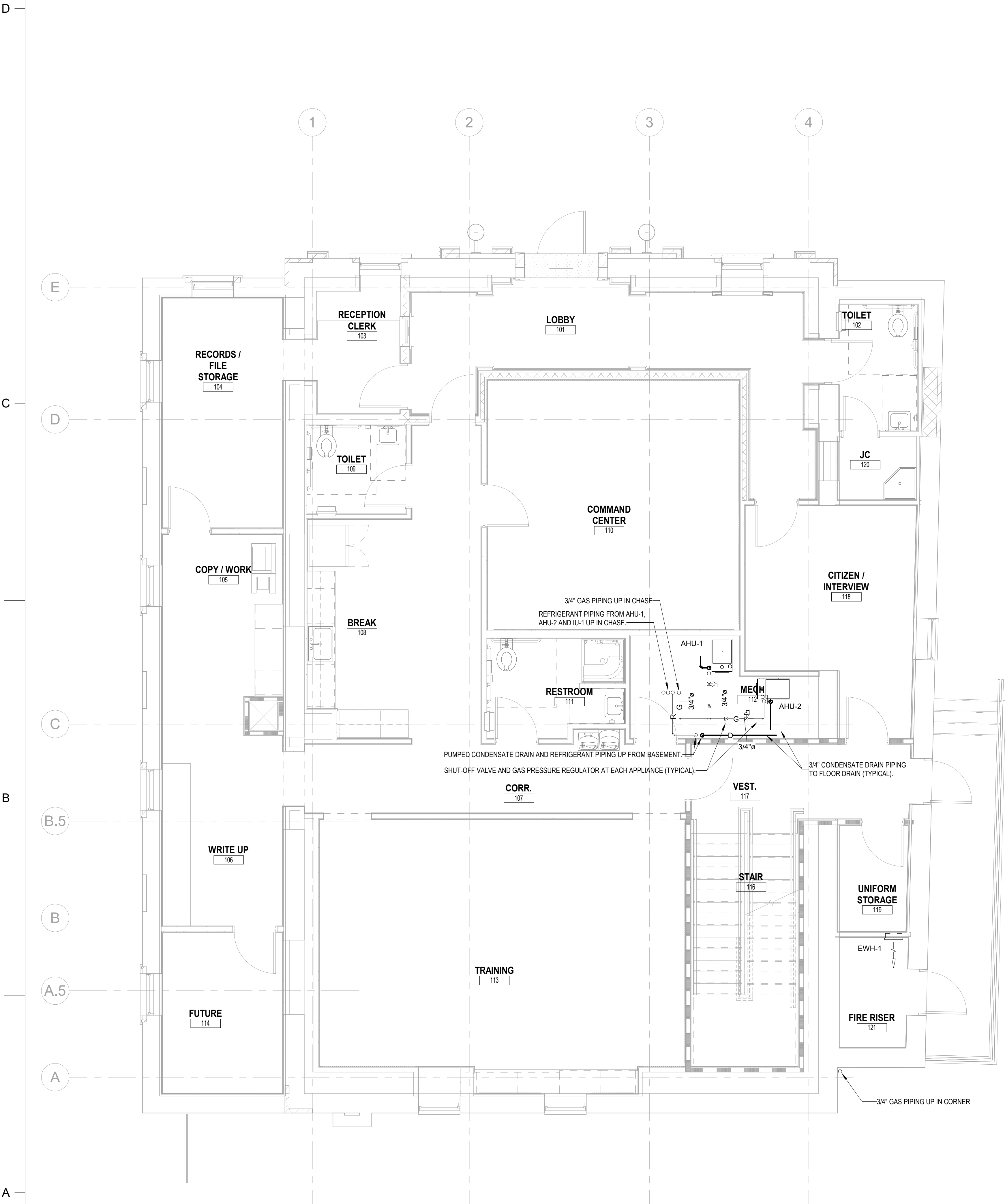
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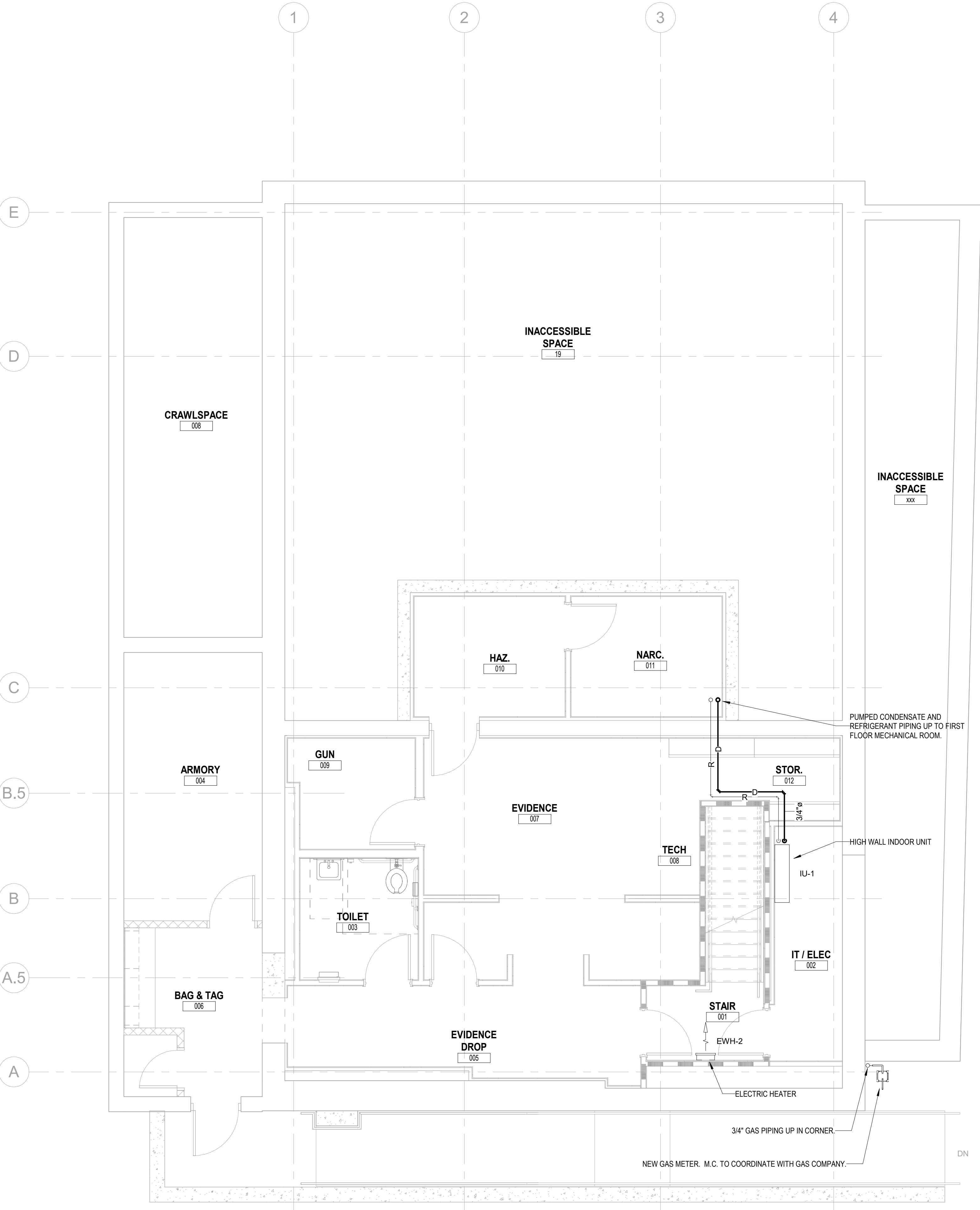
Project Number: 2023-001-01
Date: JULY 7, 2025

BASEMENT AND
FIRST FLOOR
MECHANICAL
PIPING PLANS

M1.21



2 FIRST FLOOR MECHANICAL PIPING PLAN
1/4" = 1'-0"



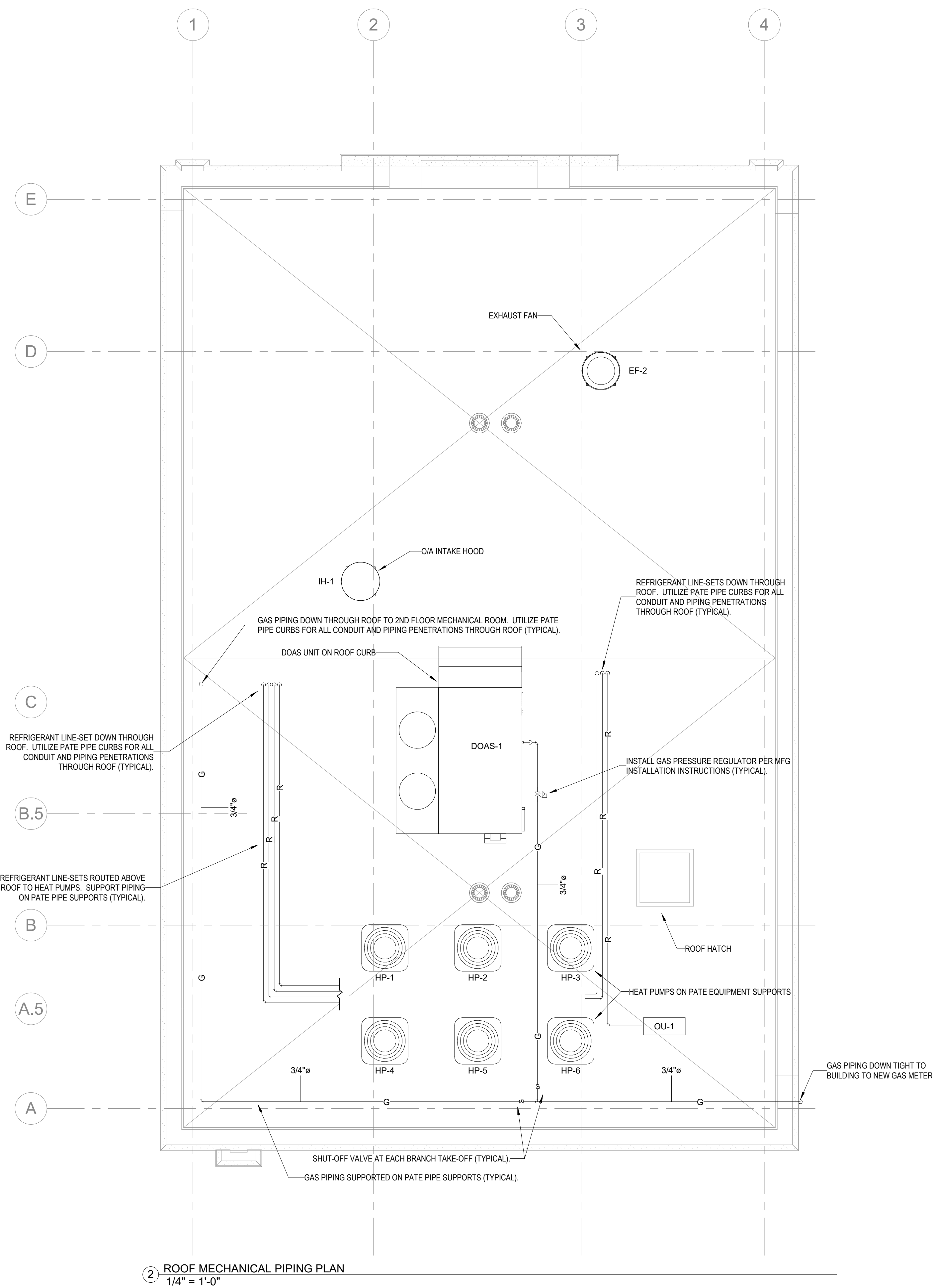
1 BASEMENT FLOOR MECHANICAL PIPING PLAN
1/4" = 1'-0"

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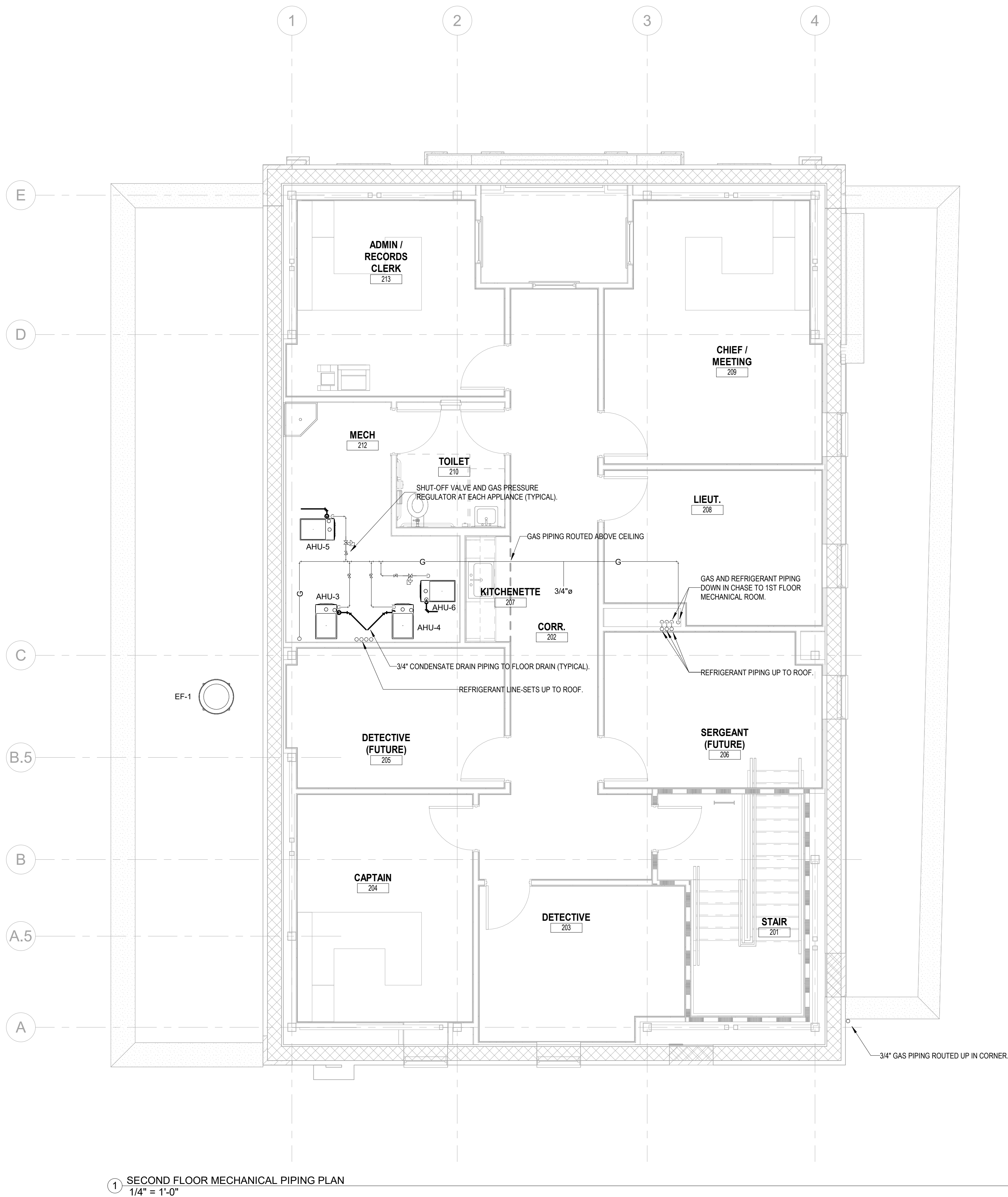
C

B

A



2 ROOF MECHANICAL PIPING PLAN
1/4" = 1'-0"

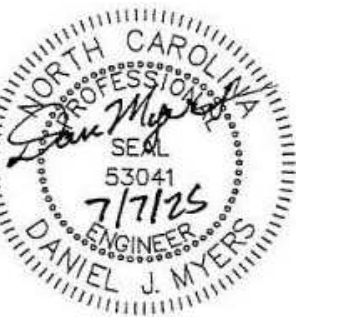


1 SECOND FLOOR MECHANICAL PIPING PLAN
1/4" = 1'-0"

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SECOND FLOOR
AND ROOF
MECHANICAL
PIPING PLANS

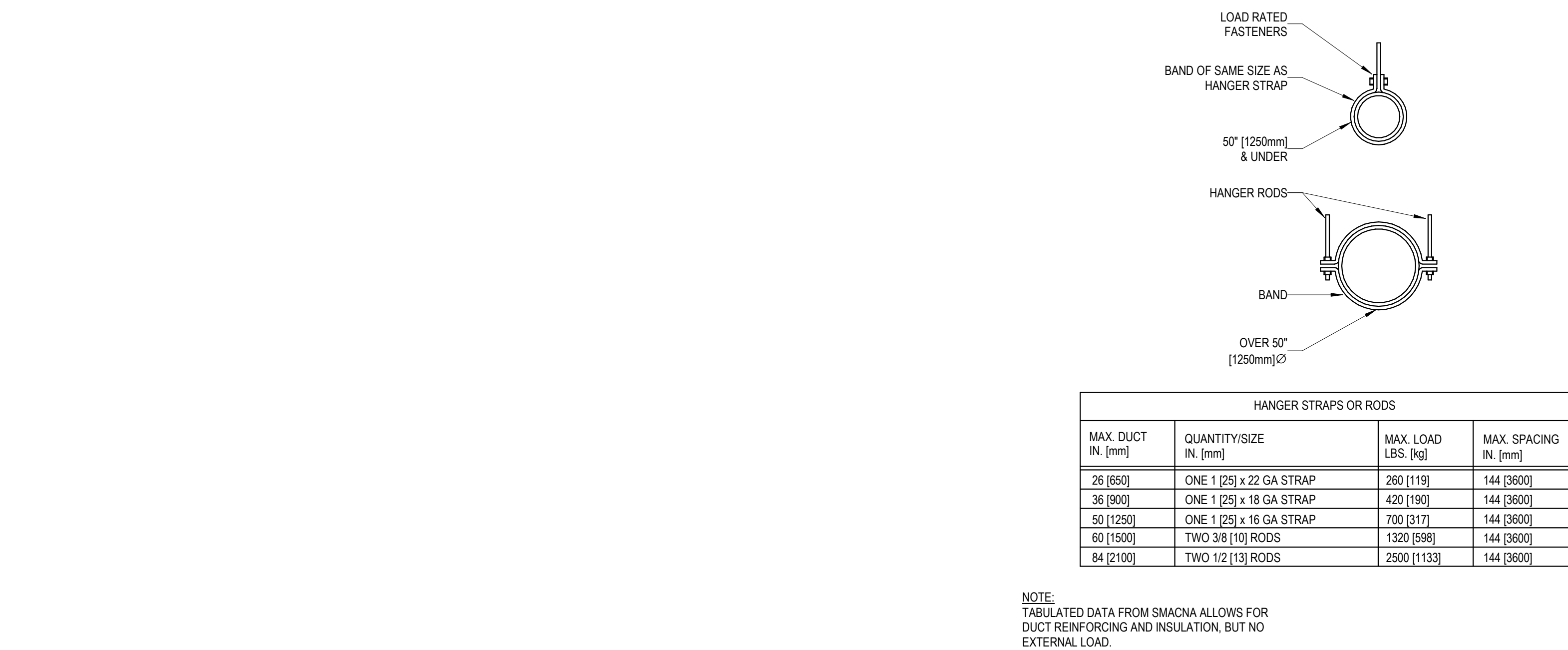
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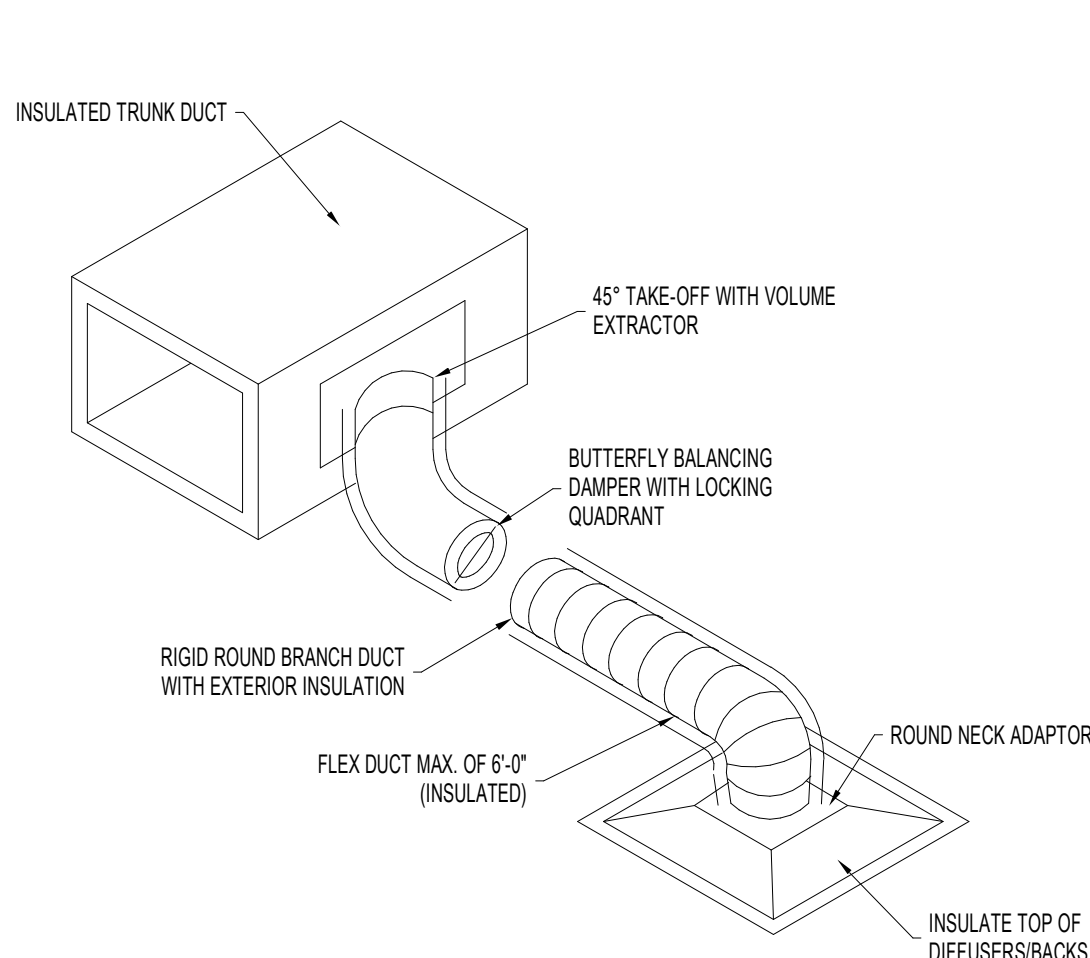
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B

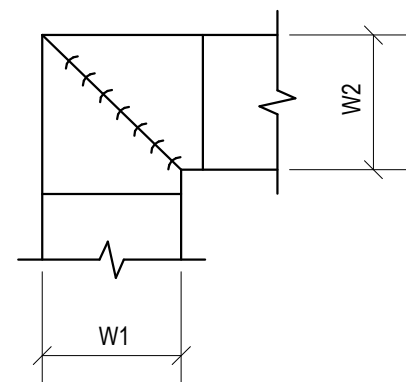
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7 ROUND DUCT HANGERS
NTS

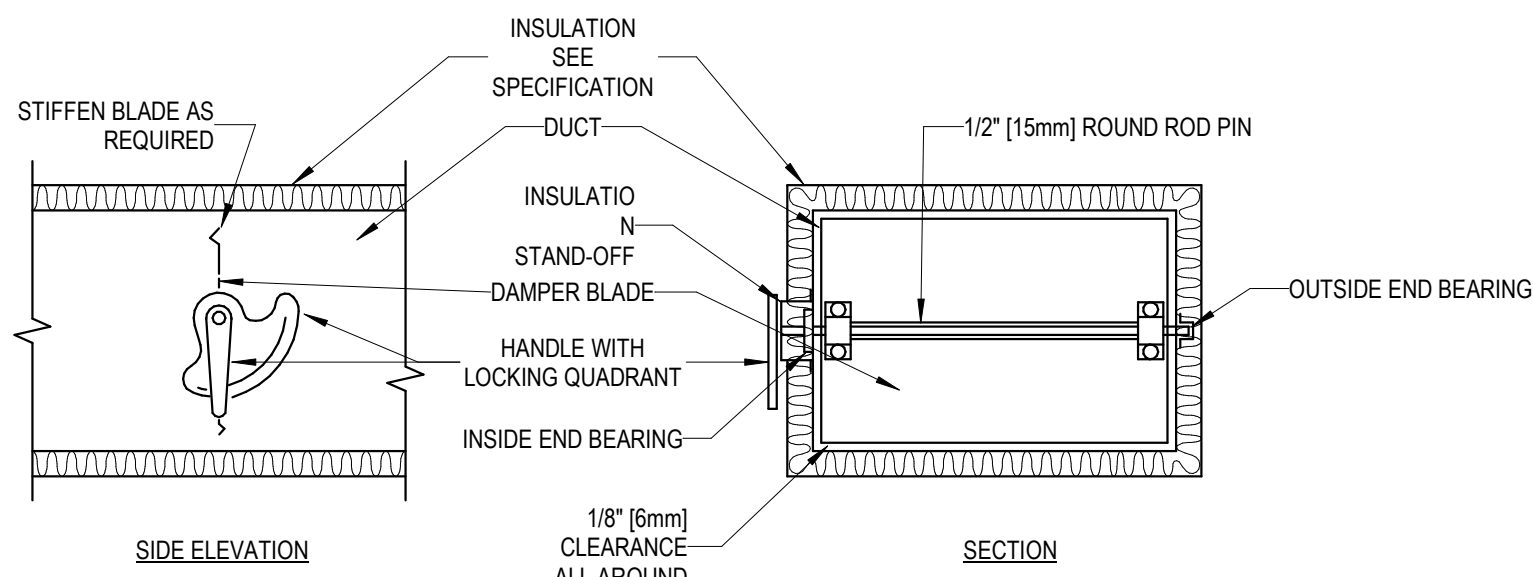


11 LOW PRESSURE DUCTWORK TAKE-OFF
NTS



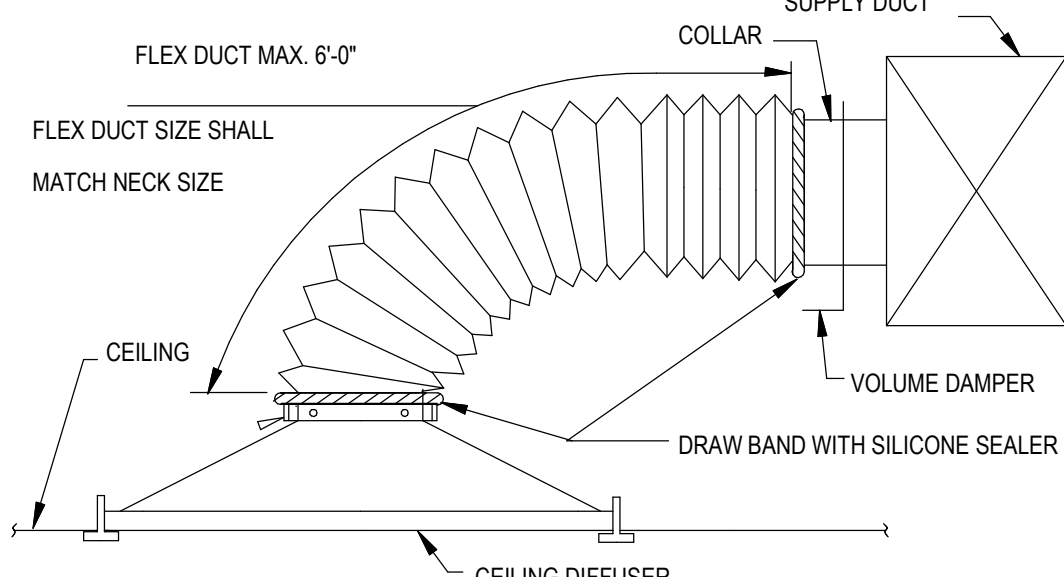
- NOTES:
- ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA
 - WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
 - ALL SINGLE THICKNESS VANES SHALL HAVE A 2" [50mm] RADIUS, 1-1/2" [40mm] MAXIMUM SPACE BETWEEN VANES AND A 3/4" [20mm] TRAILING EDGE.
 - WHEN W1 EQUALS W2 AND W1 IS GREATER THAN 20" [500mm] VANES SHALL BE DOUBLE VANE TYPE.
 - INSTALL TURNING VANES AT ALL TURNS IN SUPPLY AIR AND RETURN AIR DUCTS.

9 TURNING VANES
NTS

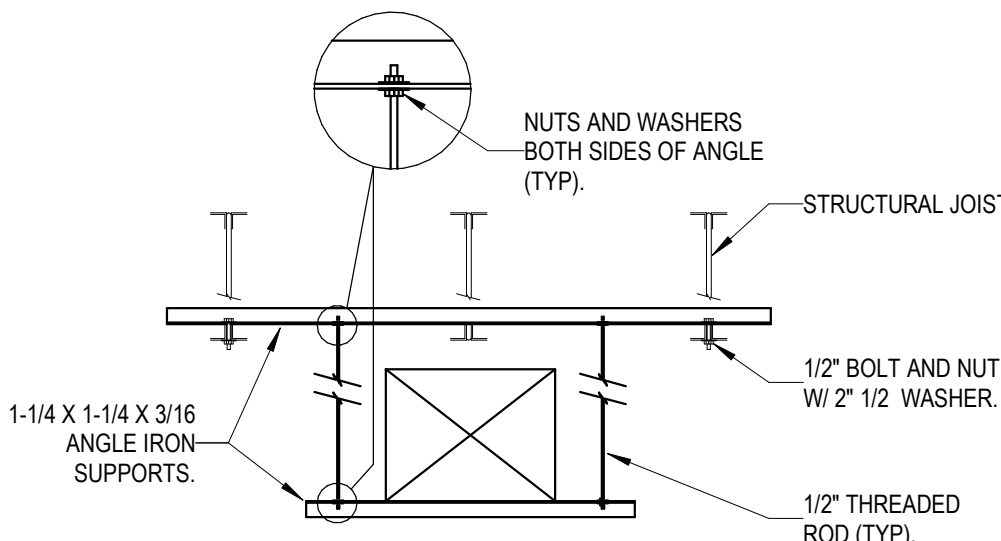


- NOTE:
- DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
 - DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

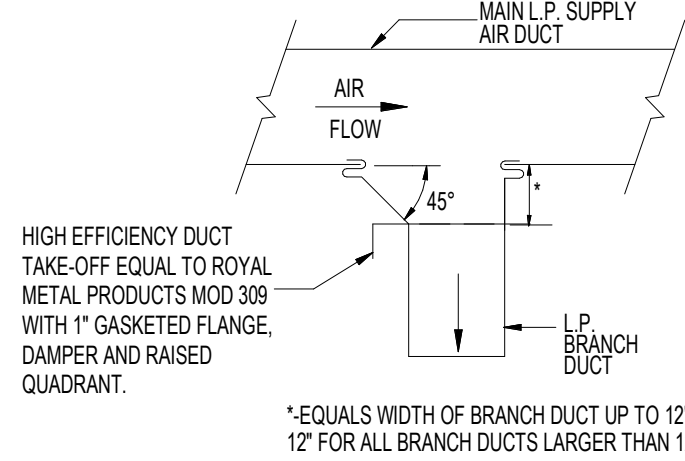
10 VOLUME DAMPER
NTS



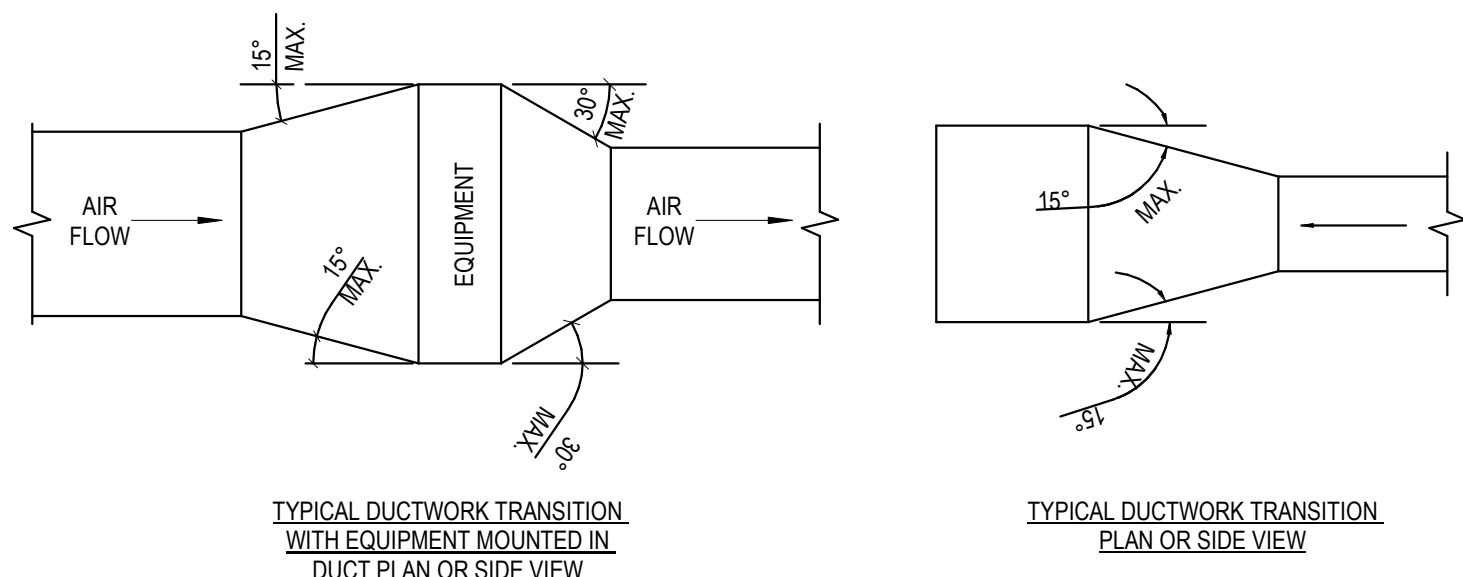
4 FLEXIBLE DUCT CONNECTION
NTS



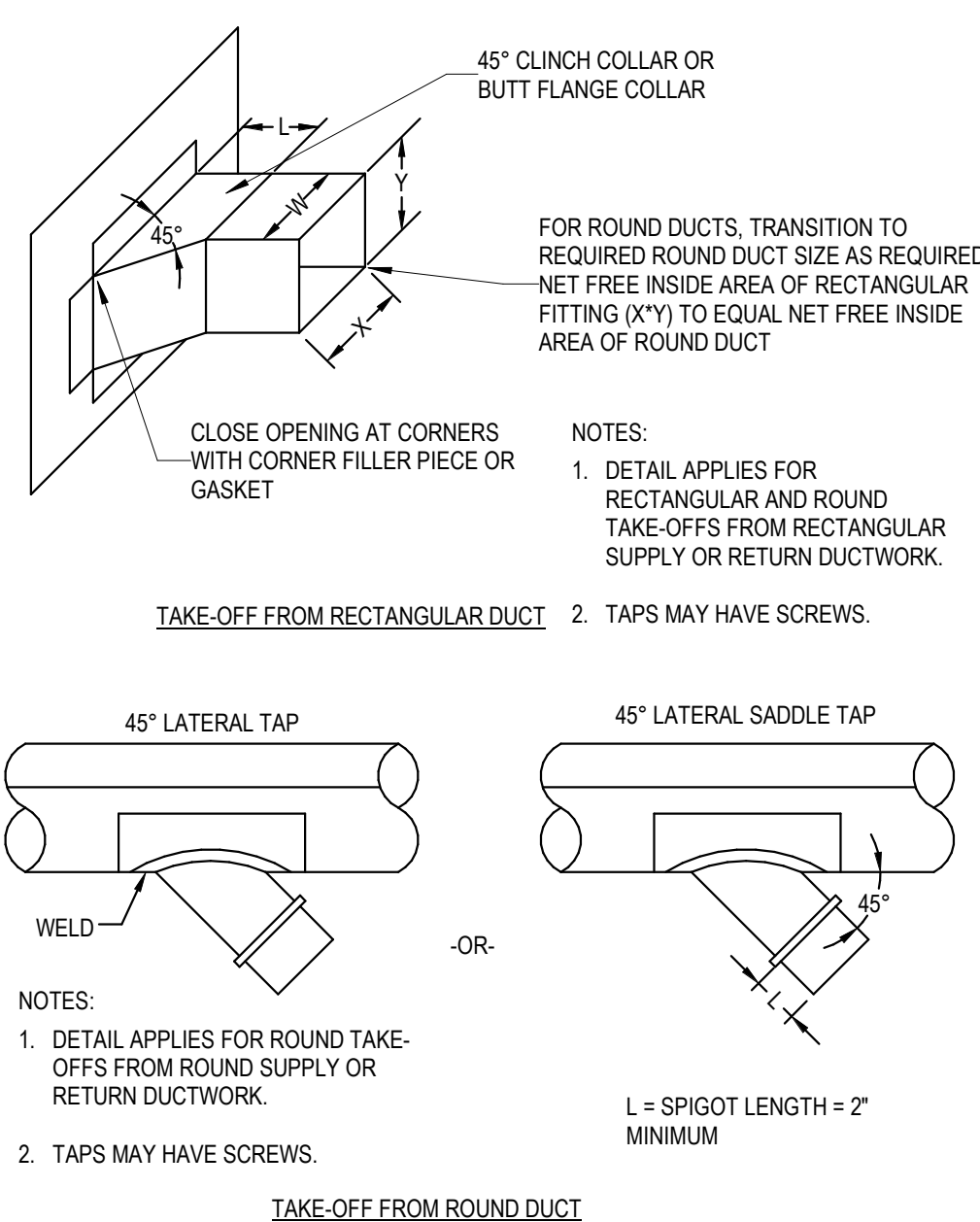
8 SQUARE / RECTANGULAR DUCT HANGER
NTS



5 LOW PRESSURE BRANCH TAKE-OFF
NTS

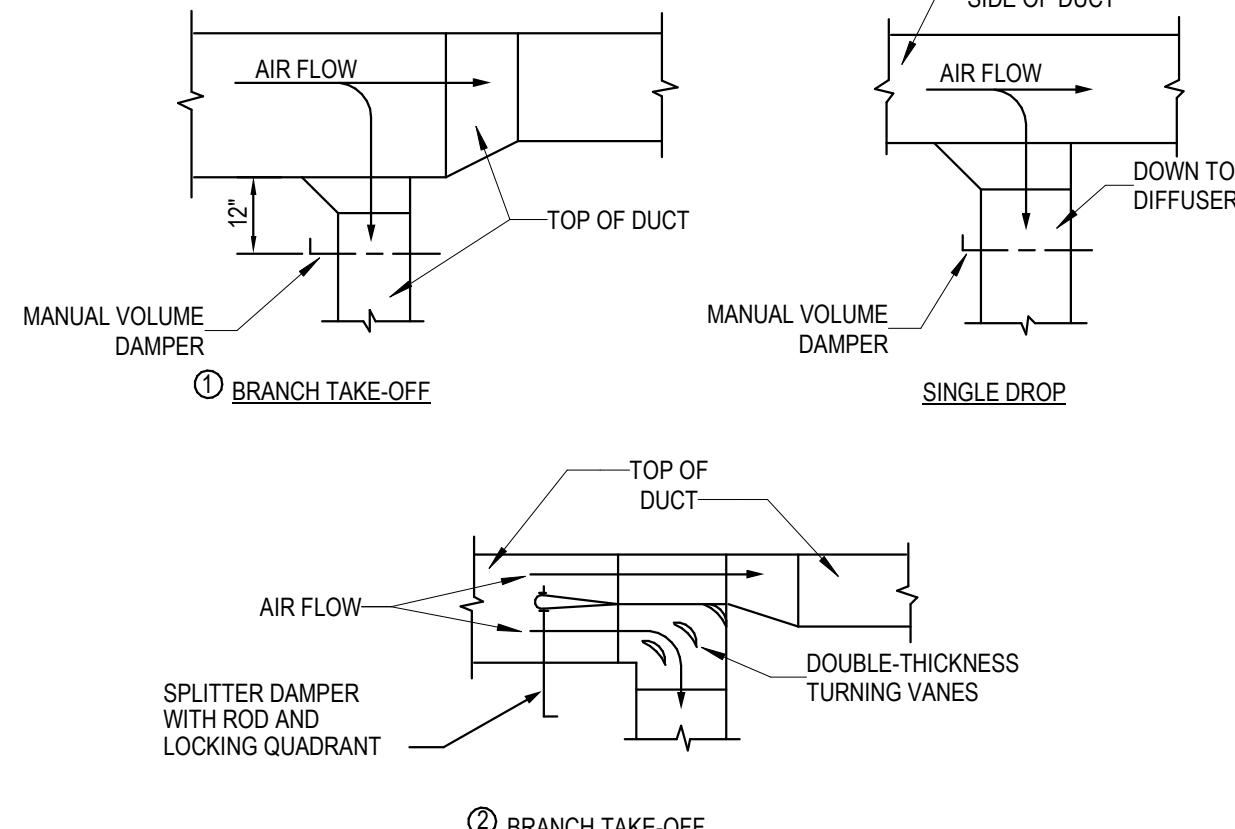


3 DUCTWORK TRANSITION
NTS



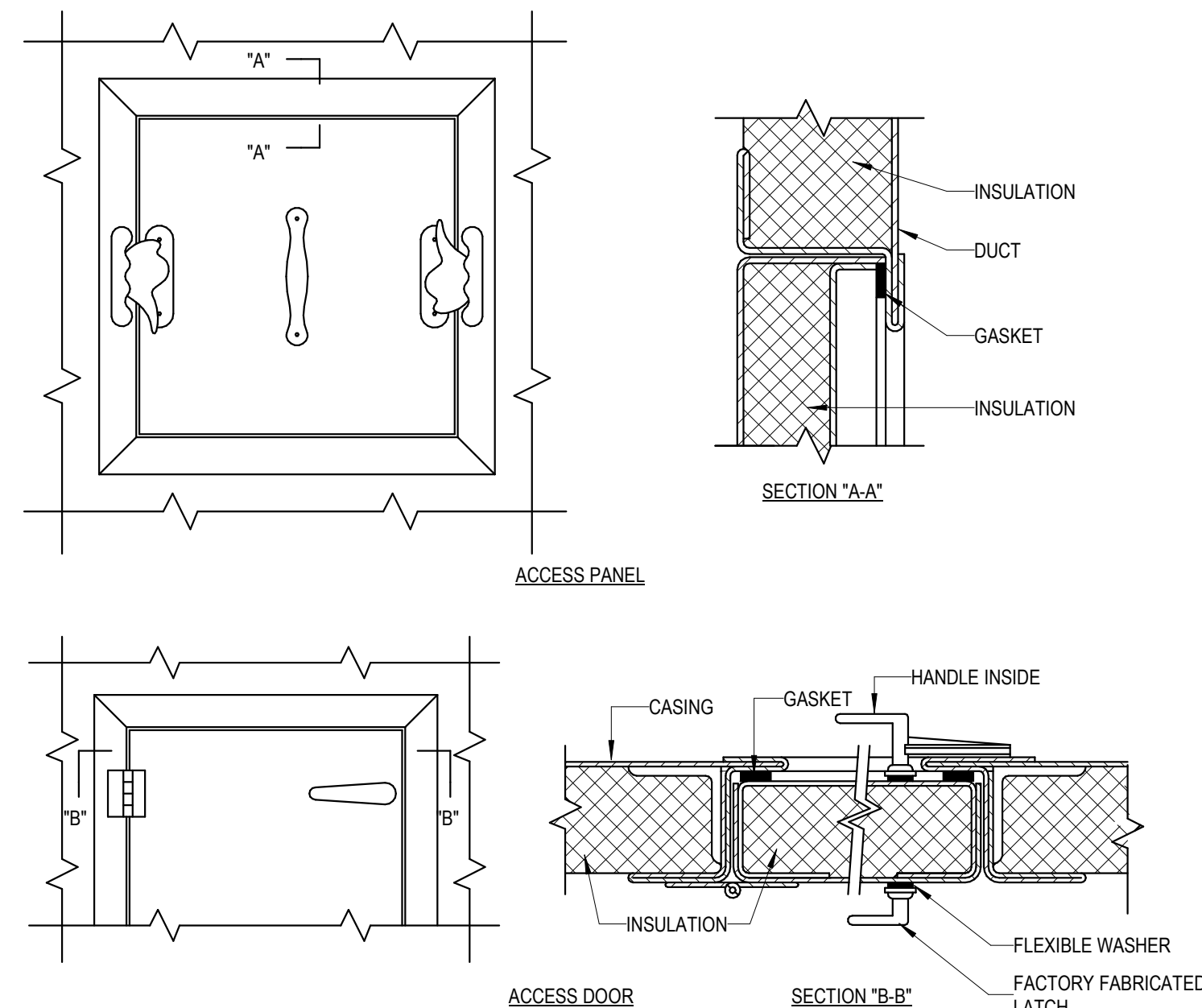
- GENERAL NOTES:
- INSTALL DUCT TAKE-OFFS PER SMACNA DETAILS FIG. 2-4 AND 3-8. SPIN-IN TYPE FITTINGS SHALL NOT BE USED.

6 TAKE OFF (45)
NTS



- NOTE:
- USE BRANCH TAKE-OFF ① WHEN MAIN AND BRANCH DUCTS ARE DIFFERENT DEPTHS
 - USE BRANCH TAKE-OFF ② WHEN MAIN AND BRANCH DUCTS ARE SAME DEPTHS
 - MANUAL VOLUME DAMPERS SHALL BE PROVIDED FOR ALL SUPPLY AND RETURN SINGLE DROP DUCT RUNS.

2 DUCT TAKE-OFF AND BRANCH DETAIL
NTS



- NOTES:
- LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
 - HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
 - SEE SMACNA 2005, FIGURE 9-15

1 ACCESS PANEL AND DOOR DETAIL
NTS

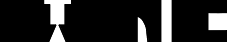
CANTON POLICE STATION RENO

No.	Description	Date

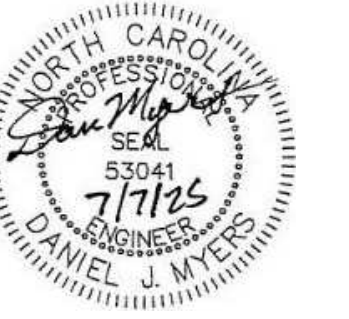
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Date: JULY 7, 2025

MECHANICAL
DETAILS

M2.01



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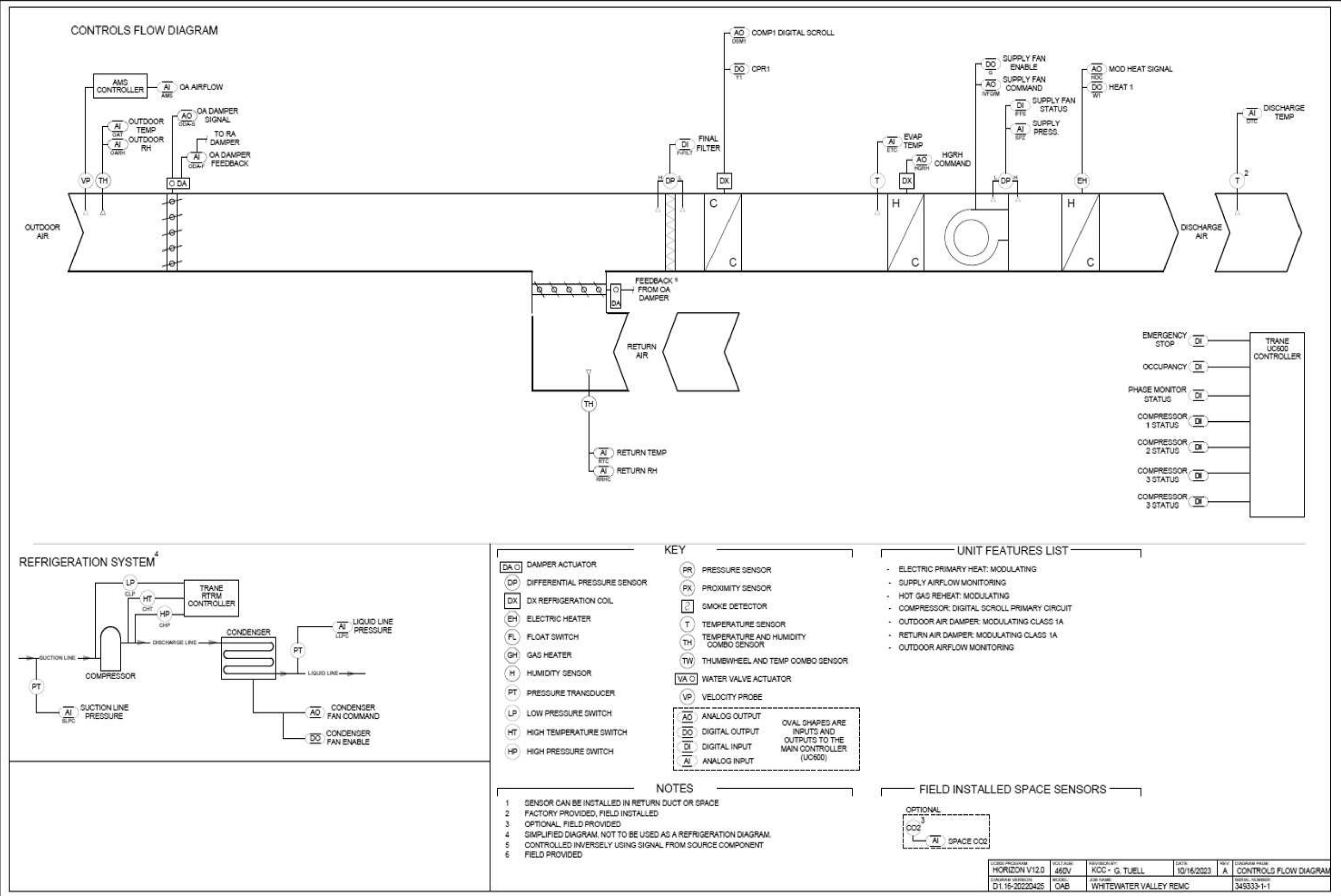


CANTON POLICE STATION RENO

[illegible]

Project Number: 2023-001-01
Date: JULY 7, 2025

M2.02



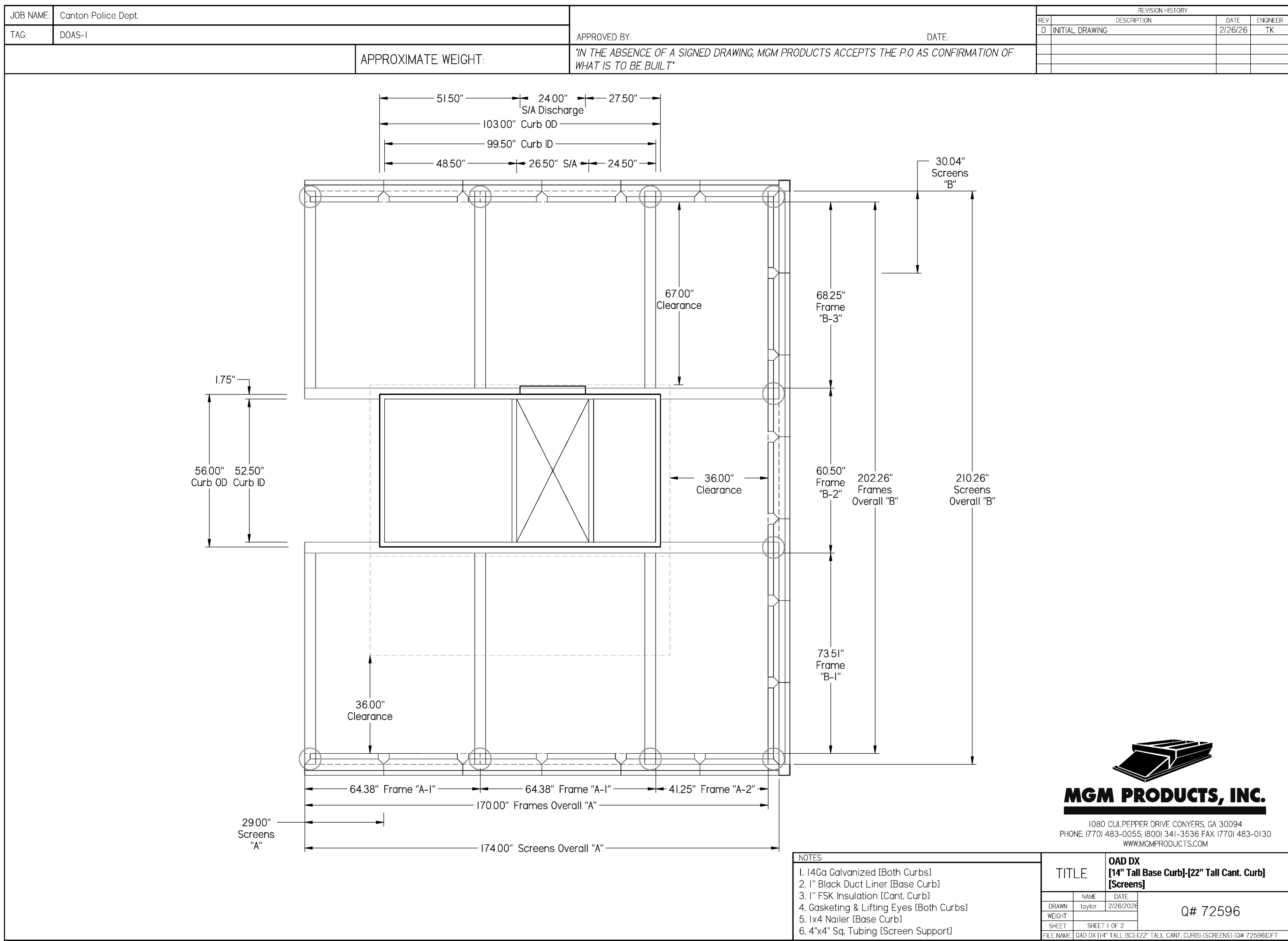
DOAS UNIT CONTROL SCHEMATIC

D

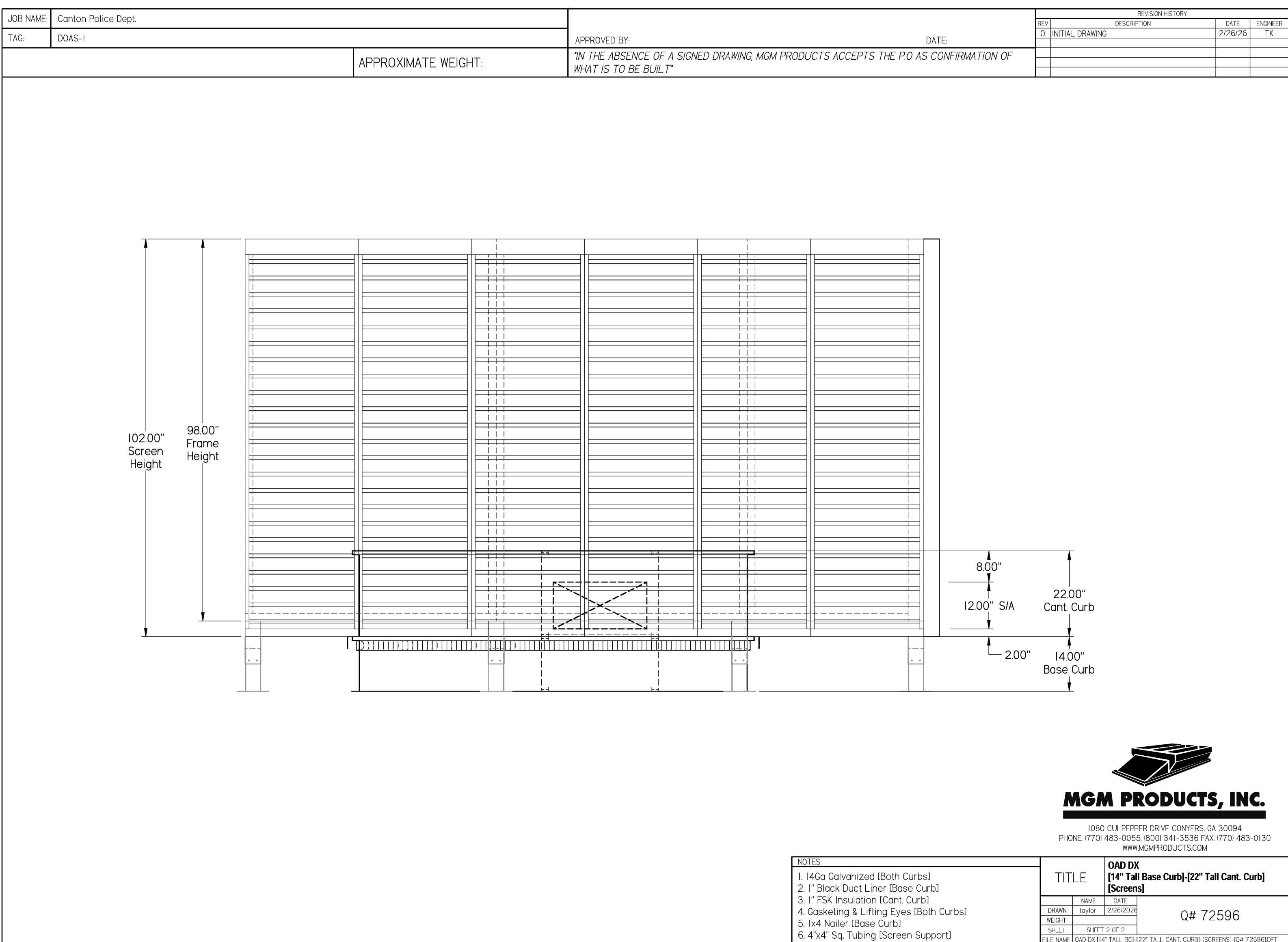
C

B

A



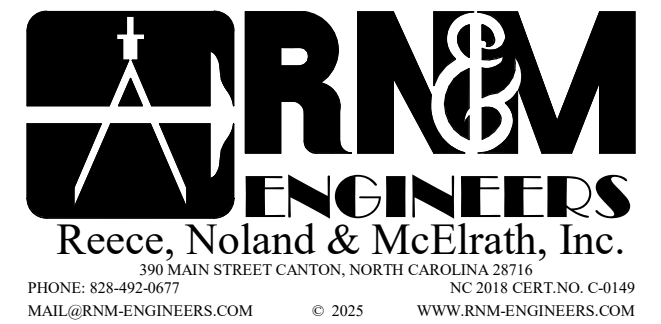
TYPICAL ROOF SCREENING DETAILS



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CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
Date: JULY 7, 2025

RTU SCREENING
DETAILS

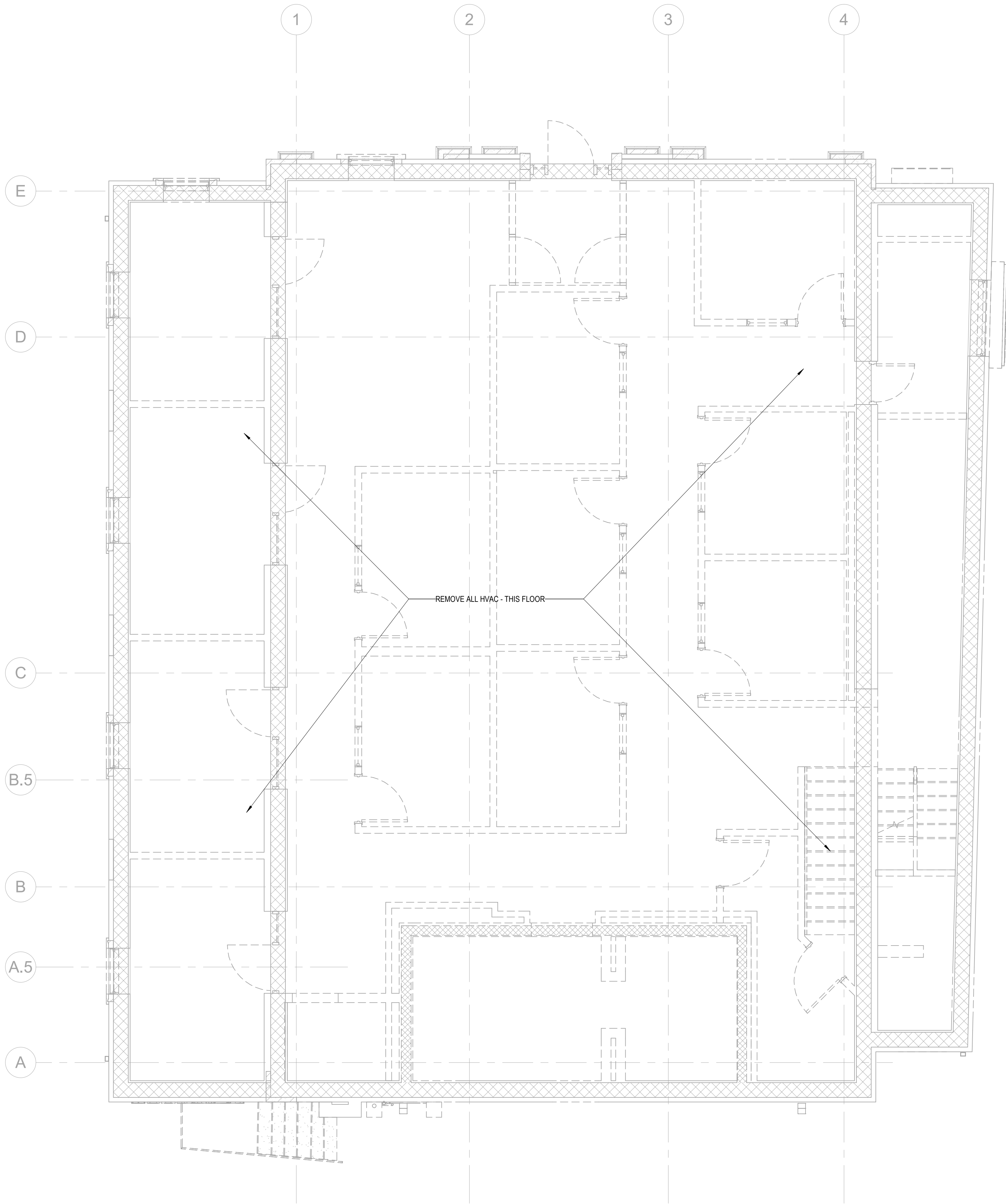
M2.03

D

C

B

A



② FIRST FLOOR MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"

1

2

3

1

2

3

4

E

D

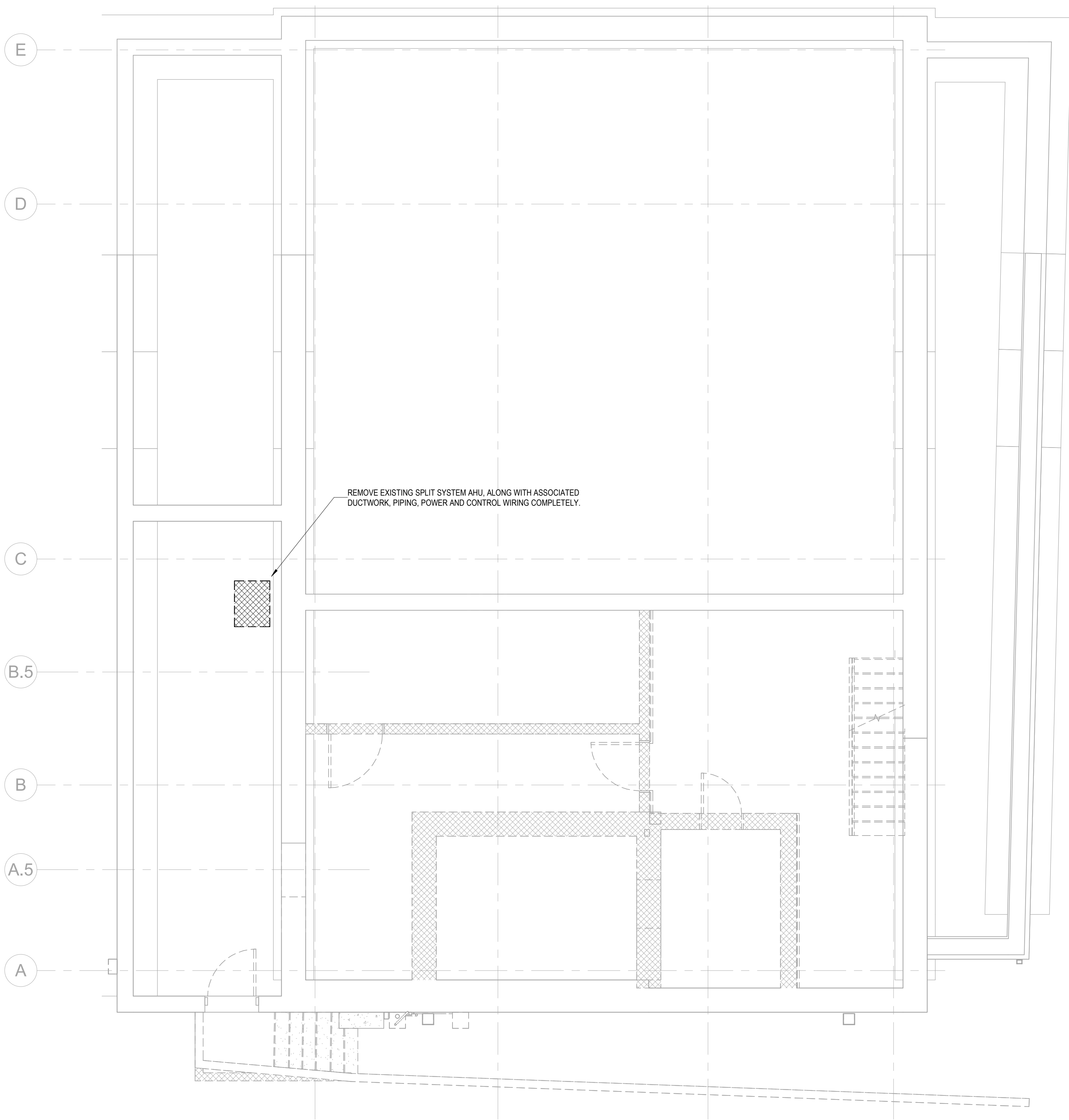
C

B.5

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A



① BASEMENT FLOOR DEMOLITION PLAN
1/4" = 1'-0"

4

5

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CANTON POLICE STATION RENO

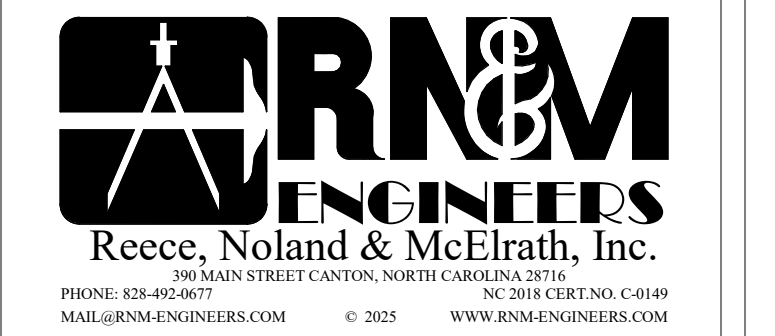
No.	Description	Date

Package: CONSTRUCTION DOCUMENTS
Project Number: 2023-001-01
Date: JULY 7, 2025

BASEMENT AND FIRST FLOOR DEMOLITION PLANS

MD1.11

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CANTON POLICE STATION RENO

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Project Number:	2023-001-01
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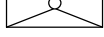
SECOND FLOOR AND ROOF DEMOLITION PLANS

MD1.13

ALL SYMBOLS MAY NOT BE USED

WHERE DEVICE HAS 'E' OR 'R' SUBSCRIPT, DEVICES SHALL BE RED WITH RED PLATES ENGRAVED "EMERGENCY"

UNLESS OTHERWISE NOTED ALL DEVICES SHALL MATCH COLOR WITH SURROUNDING WALLS.
EQUALS BY PASS & SEYMOUR, HUBBELL, LEVITON

LIGHT FIXTURES SEE LIGHTING FIXTURE SCHEDULE FOR LETTER DESIGNATIONS AND MOUNTING	
SYMBOL	DESCRIPTION
 	2X4, 2X2 LIGHTING FIXTURE ON NORMAL CIRCUIT.
 	2X4, 2X2, AND DOWNLIGHT FIXTURES ON GENERATOR SUPPLIED CIRCUIT OR PROVIDED WITH EMERGENCY BATTERY. PROVIDE SWITCHING SUCH THAT SINGLE BALLAST FIXTURES ARE CONNECTED TO UNWITHEDED LEG OF EGRESS CIRCUIT. MULTI-BALLAST FIXTURES; CONNECT ONE BALLAST (INSIDE LUMPS) AND BATTERY BACK UP, IF APPLICABLE, TO UNWITHEDED LEG OF SAME CIRCUIT. CONNECT OTHER LETTER BALLAST TO SWITCHED AREA LIGHTS.
 	EXIT SIGN AS NOTED IN SYMBOL SCHEDULE

WALL PLATES TO MATCH SURROUNDING WALL COLOR UNLESS NOTED OTHERWISE
WHERE DEVICE IS CONNECTED TO CRITICAL OR GENERATOR SUPPLIED CIRCUIT, DEVICES SHALL BE RED ILLUMINATED WITH RED PLATES
ENGRAVED "EMERGENCY"
EQUALS BY PASS & SEYMOUR, HUBBELL, LEVITON

SECURITY ACCESS		
COORDINATE DOOR HARDWARE WITH ARCHITECTURAL DOOR SCHEDULE AND DETAILS. SEE DETAILS ON SHEET 46E FOR TYPICAL DOOR INSTALLATION CONFIGURATIONS.		
SYMBOL	DESCRIPTION	MOUNTING - GIVEN TO TOP OF DEVICE OR (AS NOTED)
	JUNCTION BOX (UB), AS NOTED IN SCHEDULE. FOR AUTODOOR, PROVIDE POWER, BNC CONDUIT, AND WIRING AS INDICATED ON ARCHS. COORDINATE EXACT LOCATION WITH EQUIPMENT.	ABOVE ACCESSIBLE CEILING
	ELECTRIC DOOR OPERATOR PUSH PADS, PROVIDE BNC CONDUIT, AND POWER WIRING AS REQUIRED. COORDINATE CLOSELY WITH ARCHITECTURAL ELEVATIONS & DOOR PROVIDER. SECURITY OR CARD READER (DOOR STRIKE), 1/2" CARD READER W/ CALL TO RECEPTION BUTTON WITH CAMERA.	4'-0"
	ELECTRIC LOCKATOR TO PROVIDE 30" C12" CONDUIT WITH PULLLINE TO ABOVE ACCESSIBLE CEILING. COORDINATE WITH OWNER OR ARCHITECT & DOOR HARDWARE PROVIDER FOR EXACT LOCATION OF ALL DEVICE BOXES.	3'-6"
	DOOR RELEASE BUTTON - ELECTRICAL CONNECTION TO PROVIDE POWER, CONDUIT, BOXES, AND INTERCONNECTION TO ACCESSIBLE SELECTED LOBBY EXTERIOR DOOR, AS REQ'D.	DOOR W/ DOOR CONTROLS PROVIDER
	CAMERA OUTLET BOX, COORDINATE W/ OWNER FOR EXACT TERMINATION LOCATION & CONNECTION REQUIREMENTS. PROVIDE 3/4" CONDUIT WITH PULLLINE TO ABOVE ACCESSIBLE CEILING COORDINATE WITH OWNER PRIOR TO WORK.	ALL ACCESS, C/C DOOR W/ OWNER PRIOR TO MOUNT IN CEILING ROUGH OR WALL, AS NOTED
	PANIC BUTTON - TO BE SELECTED BY ARCHITECTED BY OWNER, E.G. TO PROVIDE JUNCTION BOX & 1/2" CONDUIT W/ PULL LINE TO ABOVE ACCESSIBLE CEILING COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER OR ARCHITECT PRIOR TO WORK.	DOOR W/ MANUF. SPECIFICATIONS

COORDINATE DOOR HARDWARE WITH ARCHITECTURAL DOOR SCHEDULE AND DETAILS.
SEE DETAILS ON SHEET E402 FOR TYPICAL DOOR INSTALLATION CONFIGURATIONS.

SYMBOL	DESCRIPTION	MOUNTING - GIVEN TO TOP OF DEVICE (OR AS NOTED)
	JUNCTION BOX (JB), AS NOTED IN SYMBOL. SCHEDULE, FOR AUTOODOR, PROVIDE POWER BOX, BOX, CONDUIT, AND WIRING AS INDICATED ON PANELS. COORDINATE EXACT LOCATION WITH EQUIPMENT.	ABOVE ACCESSIBLE CEILING
	ELECTRIC DOOR OPERATOR PUSH-BUTTONS. PROVIDE BOX, CONDUIT, AND POWER WIRING AS REQUIRED. COORDINATE CLOSELY WITH ARCHITECTURAL ELEVATIONS & DOOR PROVIDER. SECURITY (IC- CARD READER (DOOR STRIKE), IC+ CARD READER W/ CALL-TO-RECEPTION BUTTON WITH CAMERA.	4'-0" 3'-6"
	ELECTRICAL CONDUIT TO PROVIDE BOX, 1/2" CONDUIT WITH PULLMARE TO ABOVE ACCESSIBLE CEILING. COORDINATE CLOSELY WITH OWNER OR ARCHITECT & DOOR HARDWARE PROVIDER FOR EXACT LOCATION OF ALL DEVICE BOXES.	COORD. W/ DOOR CONTRACTOR & SECURITY SYSTEMS PROVIDERS
	DOOR RELEASE BUTTON - ELECTRICAL CONNECTION TO PROVIDE POWER, CONDUIT, BOXES, AND INTERNECTION TO ARCHITECT SELECTED LOBBY EXTERIOR DOOR, AS REQ'D.	COORD. W/ DOOR CONTRACTOR & PROVIDER ABU ACCESS. CLG.
	CAMERA OUTLET BOX, COORDINATE W/ OWNER FOR EXACT TERMINATION LOCATION & CONNECTION REQUIREMENTS. PROVIDE BOX, 3/4" CONDUIT WITH PULLMARE TO ABOVE ACCESSIBLE CEILING. COORDINATE WITH OWNER PRIOR TO WORK.	COORD. W/ OWNER PRIOR TO RMTG. IN CLG. HANG OR WALL, AS REQ'D
	PANIC BUTTON - TO BE SELECTED & CONNECTED BY OWNER. E.C. TO PROVIDE JUNCTION BOX & 1/2" CONDUIT W/ PULLMARE TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER OR ARCHITECT PRIOR TO WORK.	COORD. W/ MANUF. SPECIFICATIONS

SEE SHEET(S) E501 FOR ADDITIONAL INFORMATION

WHERE FIRE ALARM SYSTEM EXISTS, ALL COMPONENTS TO BE UL LISTED AND TO MATCH EXISTING SYSTEM, OTHERWISE PROVIDE SYSTEM AS DESCRIBED BELOW. ALL SYMBOLS MAY NOT BE USED
EQUALS BY SIMPLEX, NOTIFIER

NOTE: PROVIDE (4) EACH, ADDITIONAL SMOKE DETECTORS, PULL STATIONS, HORN STROBES, & STROBE DEVICES, TO BE INSTALLED AT DISCRETION OF THE AHJ.

NOTE:

CONTRACTOR IS TO SELECT CANDELA SETTINGS FOR STROBES PER NFPA-72 REQUIREMENTS. INDICATE SETTINGS ON WIRING DIAGRAMS, INITIALS, AND INCLUDE IN REQUIRED BATTERY CALCULATIONS. ENSURE ALL AUDIBLE DEVICES ARE SET TO A MINIMUM OF 60db.

IF HERE INDICATED, SUBSCRIPT INDICATES Cd LEVEL SETTING. ALL AUDIBLE DEVICES TO BE SET AT 60db MINIMUM

SYMBOL	DESCRIPTION	MOUNTING
	240V ELECTRICAL PANELBOARD. SEE PANEL SCHEDULE FOR DESCRIPTION.	6'-6" AFF TO TOP
	480V ELECTRICAL PANELBOARD. SEE PANEL SCHEDULE FOR DESCRIPTION.	6'-6" AFF TO TOP
	250V MOLDED CASE CIRCUIT BREAKER IN ENCLOSURE. WHERE EXPOSED TO WEATHER SHALL BE NEMA 3R RATED.	6'-6" AFF TO TOP
	480V MOLDED CASE CIRCUIT BREAKER IN ENCLOSURE WHERE EXPOSED TO WEATHER SHALL BE NEMA 3R RATED.	6'-6" AFF TO TOP
	TRANSFORMER. SIZE AS NOTED	FLOOR UNO
	SURGE PROTECTIVE DEVICE. SEE SPECIFICATIONS.	MOUNT ON SERVICE DISTRIBUTION EQUIPMENT. SEE RISER
	DISCONNECT SWITCH, 600V. WHERE EXPOSED TO WEATHER SHALL BE NEMA 3R.	NO HIGHER THAN 6'-6" AFF TO TOP OF DEVICE
	FUSED DISCONNECT SWITCH, 600V. WHERE EXPOSED TO WEATHER SHALL BE NEMA 3R.	NO HIGHER THAN 6'-6" AFF TO TOP OF DEVICE
	DISCONNECT SWITCH, 250V. WHERE EXPOSED TO WEATHER SHALL BE NEMA 3R.	NO HIGHER THAN 6'-6" AFF TO TOP OF DEVICE
	FUSED DISCONNECT SWITCH, 250V. WHERE EXPOSED TO WEATHER SHALL BE NEMA 3R.	NO HIGHER THAN 6'-6" AFF TO TOP OF DEVICE
	JUNCTION BOX (JB) AS MANUFACTURED BY RACO, STEEL CITY, OR UNIVERSAL. SIZE AS APPLICABLE OR REQUIRED, ETC. TO MAKE FINAL CONNECTIONS TO FLUENT SYSTEMS AND/OR EQUIPMENT.	WALL 4'-0" AFF OR CEILING, COORDINATE W/ EQUIPMENT
	JUNCTION BOX, SAME AS ABOVE. FOR HAND DRYER. COORDINATE W/ EQUIPMENT WITH MANUFACTURER.	WALL 4'-0" AFF OR CEILING, COORDINATE W/ EQUIPMENT
	EXHAUST FAN	SEE MECH. DRAWINGS
	PUMP MOTOR	SEE PLUMBING/MECH. DRAWINGS
	MOTOR	SEE MECH. DRAWINGS
	HOMERUN TO PANEL BOARD. WIRE & CONDUIT AS SPECIFIED ON PANEL SCHEDULES.	
	CONDUIT, SIZED AS SPECIFIED	

4. 600 LED FIXTURES WITH STANDARD ELECTRONIC ON DIMMING (RAISED JUST BEING DIMMED). POOLADE SWITCHING SUCH THAT ALTERNATE FIXTURES ARE CONTROLLED BY SEPARATE SWITCHES. TYPICAL AS NOTED

- ## ELECTRICAL FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	MNTG	WATTS	DRIVER
A	6" RECESSED DOWNLIGHT, LED, 2500 LUMENS, 3500K COLOR TEMPERATURE, WIDE BEAM WHITE TRIM, 0-10V % DIMMING DRIVER PRESELECT: PLR-ARDS-A-2L3SK8-W-DIM-LFR-ARG-S+SWTFLTR-LFR-ARD-H-C	LED 2500 LUMENS, 3500K	CEILING RECESSED	23	ELECTRONIC LED 0-10V % DIMMING DRIVER
B	2XZ, LED, RECESSED PAST HOLE, FROSTED GLASS, SWITCHABLE LUMENS & COLOR TEMPERATURE, 0-10V % DIMMING DRIVER, NO DESIGNATION TO HAVE BATTERY BACKUP (ELL-I)	LED 3200/9750/5000 LUMENS, 3000/4000/5000K	CEILING RECESSED	23/27/38	ELECTRONIC LED 0-10V % DIMMING DRIVER
C	STRIP LIGHT, 2 LINEAR LED, FROSTED LENSES, 2700 LUMENS, 3500K COLOR TEMPERATURE, 0-10V DIMMING DRIVER COLUMBIA LIGHTING RCL-2-3SMI, EDU	LED 2700 LUMENS, 3500K	CEILING SURFACE, OR CHAIN HUNG AT 8'-0" AFF	24	ELECTRONIC LED 0-10V DIMMING DRIVER
D	STRIP LIGHT, 4" LINEAR LED, FROSTED LENSES, 3300 LUMENS, 3500K COLOR TEMPERATURE, 0-10V DIMMING DRIVER COLUMBIA LIGHTING RCL-4-3SMI, EDU	LED 3300 LUMENS, 3500K	CEILING SURFACE, OR CHAIN HUNG AT 8'-0" AFF	42	ELECTRONIC LED 0-10V DIMMING DRIVER
E	EXIT LIGHT, LUMINOUS, LED EDGE LIT WITH RED LETTERING AND ARROWS, BATTERY BACK UP, SELF-DIAGNOSTICS, COORDINATE MOUNTING OPTIONS & ARROWS WITH LIGHTING PLANS DUAL-LITE RESCUE DUAL-KVLDUC-E-1	LED, INCLUDED	CEILING SURFACE, WALL-7'-6" AFF	3	ELECTRONIC LED DRIVER
F	EMERGENCY EGRESS BATTERY LIGHT, DUAL HEAD FIXTURE, 90 MINUTE BATTERY BACKUP, SELF-DIAGNOSTICS DUAL-LITE E-2E-ZU	LED, INCLUDED	WALL - 7'-6" AFF	1	ELECTRONIC LED DRIVER
G	12" UNDER-CABINET STRIP, LED, POLYCARBONATE LENSES, ALUMINUM HOUSING, WHITE FINISH, 4000 LUMENS, SELECTABLE COLOR TEMPERATURE, 10% DIMMING, CONNECTION ACCESSORIES AS REQ'D COLUMBIA LIGHTING KJCUL-CS-ED120	LED 450 LUMENS, 3000/3500/4000K	SURFACE MOUNT, UNDER CABINET	8	ELECTRONIC LED 0-10V DIMMING DRIVER
H	2XZ, LED, RECESSED PAST HOLE, FROSTED LENSES, SWITCHABLE LUMENS & COLOR TEMPERATURE, 0-10V % DIMMING DRIVER, NO DESIGNATION TO HAVE BATTERY BACKUP (ELL-I) COLUMBIA LIGHTING KC872-A-LSCS-ED	LED 2750/3300/4000 LUMENS, 3500/4000/5000K	CEILING RECESSED	24/28/38	ELECTRONIC LED 0-10V % DIMMING DRIVER
I	24" VANTLY LIGHT, WALL MOUNT, LED, BRUSHED NICKEL HOUSING, 2000 LUMENS, 3500K COLOR TEMPERATURE, DIMMING DRIVER GLOBALUX PVRL-24	LED 2000 LUMENS, 3500K	WALL MOUNT ABOVE MIRROR, 8'-6" AFF	20	ELECTRONIC LED DIMMING DRIVER
J	30" BOWL PENDANT, LED, DIRECT/DIRECT OPAL ACRYLIC DIFFUSER, AROMFAC CAGE S/S SUSPENDED, 4000 LUMENS, 3000K COLOR TEMPERATURE, 0-10V % DIMMING DRIVER, XH-XFINN-SELECTED BY ARCHITECT LED-FAN-200-LD17V-00277-2BK0-CF-BW+E-IF-CAUSE STRAF-FIN200-SMALL-OVAL-CH-10V	LED 4000 LUMENS, 3000K	LED SUSPENDED, 10'-6" AFF TO BOTTOM OF FIXTURE	52	ELECTRONIC LED 0-10V % DIMMING DRIVER
K	6" RECESSED DOWNLIGHT, LED, UL LISTED LUMENS, SWITCHABLE COLOR TEMPERATURE, WHITE TRIM, 0-10V DIMMING DRIVER PRESELECT: PLR-BQ4-AD-2L3SK8-W-DIM-LFR-ARG-S	LED 700 LUMENS, 3000/3500/4000K	RECESSED	9	ELECTRONIC LED 0-10V DIMMING DRIVER
L	6" LINEAR WALL MOUNT, LED, VANDAL RESISTANT, ROUND LENSES, UPDOWN DISTRIBUTION, SWITCHABLE LUMENS & COLOR TEMPERATURE COLUMBIA LIGHTING KORWL-SS3	LED 3900/4800/5000 LUMENS, 3000/4000/5000K	WALL MOUNT, 7'-6" AFF	29/34/40	ELECTRONIC LED 0-10V 10V DIMMING DRIVER
M	EXTERIOR WALL MOUNT, LED, WIDE DISTRIBUTION, 4500 LUMENS, 4000K COLOR TEMPERATURE, COLD WEATHER DRIVER, XH-XFINN-SELECTED BY OWNER OR ARCHITECT KIM LIGHTING #WOS-24L-40-463-4W-JUNVXX	LED 4500 LUMENS, 4000K	WALL MOUNT, 8'-6" AFF BOT OF FIXTURE	44	COLD WEATHER ELECTRONIC LED DRIVER
N	16" DIAMETER ACRYLIC GLOBE, VINYLAGE POLICE LIGHT, BLACK LETTERING/WHITE GLOBE, DECORATIVE BLACK ARMATURE, WALL MOUNT, INCANDESCENT, COORDINATE WITH OWNER SENTRY LIGHTING ASPRT-14-IN-L-MED-WH-POLICE-BK-6K	INCANDESCENT, BLACK ARMATURE, WALL MOUNT	WALL MOUNT, 7'-6" AFF BOT OF FIXTURE	100	
P	IN-GROUND FLIGHT, LED, NARROW FLOOD BEAM, SLIP RESISTANT LENS WITH ROOK GUARD, 700 LUMENS THAT MAY NOT BE USED KIM LIGHTING #T91R-GR-12, RGBV UT SR CA1	LED 700 LUMENS, 4000K	WALL MOUNT OR IN- GROUND MOUNT, SURFACE TRIM	16	ELECTRONIC LED DRIVER
R	6" RECESSED DOWNLIGHT, LED, 1500 LUMENS, 3500K COLOR TEMPERATURE, MEDIUM BEAM, WHITE TRIM, 0-10V % DIMMING DRIVER PRESELECT: PLR-ARDS-A-2L3SK8-W-DIM-LFR-ARG-S+SWTFLTR-LFR-ARD-H-C	LED 1500 LUMENS, 3500K	CEILING RECESSED	12	ELECTRONIC LED 0-10V % DIMMING DRIVER

1. ELECTRICAL CONTRACTOR TO FURNISH AND MAKE PROVISIONS FOR THE INSTALLATION OF (3) ADDITIONAL TYPE "E" FIXTURES & (3) ADDITIONAL TYPE "F" FIXTURES.
2. WHERE FIXTURES ARE INSTALLED IN GSWBWOOD ETC. E.C. TO PROVIDE APPROPRIATE INSTALLATION KIT. COORDINATE WITH ARCHITECTURAL RCP.
3. EQUALS MAY BE SUBMITTED BY ACUTY BRAND, PHILIPS LIGHTING PRODUCTS, HUBBELL, METALUX, H.E. WILLIAMS, LUMINAIRE, ALW, FINELITE, GE LIGHTING SYSTEMS, METALUMEN, LITHONIA LIGHTING, FOCAL POINT, SESCO

COORDINATE WITH ARCHITECTURAL ELEVATIONS AND DETAILS

▼	TO ABOVE ACCESSIBLE CEILING.	4'-0" AFF
▼	COMINATION DATA/ELECTRICAL OUTLET BOX, PROVIDE BOX, SINGLE OUTLET RING, & 1" CONDUIT W/ PULLWIRE TO ABOVE ACCESSIBLE CEILING.	1'-0" AFF
▼	COMINATION DATA/TELEPHONE OUTLET BOX, AS NOTED ABOVE, EXCEPT MOUNTING HEIGHT.	6" ACT TO BTH/WHEN THERE IS NO COUNT, RIM AT 42" AFF @ 8" BTH CEILING RECESSED
▼	DATA OUTLET BOX AS ABOVE EXCEPT MOUNTING IN CEILING	1'-0" AFF
AV	TERMINATION POINT IN WALL FOR WALL MONITOR CONTROLS. PROVIDE BOX & 1" CONDUIT W/ PULLWIRE TO ABOVE ACCESSIBLE CEILING. COORDINATE RELOCATIONS & EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.	1'-0" AFF
RF	WIRELESS ACCESS POINT, E.G. TO PROVIDE WIRING ACCESS, CONDUIT W/ PULLWIRE, FOR DEVICES. COORDINATE EXACT LOCATION RELOCATIONS W/ OWNER PRIOR TO ROUGH-IN. INTERIOR WALL MOUNTING TO BE PROVIDED ON BRACKET, TOP-PLATE HEIGHT. SYSTEM PROVIDED AND INSTALLED BY OWNER'S DATA VENDOR.	FLUSH IN CLG AT 10' CLG OR LESS. WALL AT 10' 0" BRACKET
RF	SOUND ATTENUATOR FOR CEILING MOUNTED SPEAKER, SOUNDQUIL RATIO 1.0	4'-0" AFF
S	ROOM SPEAKER, SELF AMPLIFIED, WHITE EPONY FINISH	CEILING RECESSED

(X)	EXISTING
-----	----------

(N) NORMAL
 (O) DEMOLISH
 (R) RELOCATE
 A AMPS
 AC AIR CONDITIONING UNIT
 ACB ABOVE-COUNTER TOP
 AD AUTOMATIC DOOR
 AFF ABOVE FINISHED FLOOR
 AHU ABOVE FINISHED GRADE
 AHU ABOVE FINISHED ROOF
 AHU AUTHORITY HAVING JURISDICTION
 AHU AIR HANDLING UNIT
 ATS AMPS INTERRUPTING CAPACITY
 ATS AUTOMATIC TRANSFER SWITCH
 AV AUDIO VISUAL
 BV BOILER
 BAS BUILDING AUTOMATION SYSTEM
 BC BYPASS CONTACTOR
 BLDG BUILDING
 BFG BELOW FINISHED GRADE
 C CONDUIT
 CB(CIRCUIT) BREAKER
 CH CHILLER
 CIR CIRCUIT
 CLG CEILING
 CONDUIT CONDUIT ONLY
 COMP COMPRESSOR
 CP CONDENSATE PUMP
 CT ELECTRICAL POWER TRANSFORMER
 CR CRITICAL BRANCH
 CT CURRENT TRANSFORMER
 CU COPPER
 CUH CABINET UNIT HEATER
 D DISTRIBUTION PANEL
 DS DISCONNECT SWITCH
 DWG DRAWING
 E ELECTRICAL CONTRACTOR
 EDP ELECTRICAL INTERLOCK
 EMB EXHAUST FAN
 EM ELECTRICAL DISTRIBUTION
 ENL END OF LINE RESISTOR
 EMP EMERGENCY
 EXP EXPLOSION PROOF
 EQ EQUIPMENT RACK
 EXH EXHAUST WATER COOLER
 EXIST EXISTING
 F FLOOR
 FLO FAN COIL UNIT
 FLSO FINISHED CONDUIT SWITCH
 FLU FULL LOAD AMPS
 FL FLOOR
 FZ FREEZE/STAT
 GC GENERAL CONTRACTOR
 GFI GROUND FAULT PROTECTION
 GFI GROUND FAULT INTERRUPTER
 GP GROUND FAULT PROTECTION
 H HANDS OFF
 HOA HANDS OFF AUTO SELECTOR SWITCH
 H HORSE-POWER
 HVC HIGH VOLTAGE VENTILATION, AIR CONDITIONING
 ISOL ISOLATED GROUND
 J JUNCTION BOX
 KK KIRK KEY
 KW KILOWATT AMPS
 KW KILOWATT
 L LOCKED ROTOR AMPS
 LRF LINE RELUCTANCE/ARMONIC TRAP FILTER
 LS LIFE SAFETY BRANCH
 LT LIGHT
 LTS LIGHTING
 LX MAXIMUM
 MC MECHANICAL CONTRACTOR
 MC MAXIMUM CONTROL CENTER
 MCCB MOLDED CASE CIRCUIT BREAKER
 MIN MINIMUM
 MO MAIN USE ONLY
 M MOUNT
 MTD MOUNTED
 MTG MOUNTING
 N NORMAL
 NC NORMALLY CLOSED
 NFDS NORMALLY CLOSED DISCONNECT SWITCH
 NFI NOT IN CONTACT
 NO NORMALLY OPEN
 NTS NOT TO SCALE
 O OVERLOAD RELAY
 P PUMP
 PB PUSH BUTTON
 PFC PLUMBING CONTRACTOR
 PHS PHASE
 PHN PHONE
 PWR POWER
 RF RETURN AIR FAN
 RTU ROOF TOP UNIT
 SF SUPPLY AIR FAN
 SPEC SPECIFICATION
 SS SOLID SYSTEM CONSULTANT
 SW SWITCH
 TYP TYPICAL TEMPERATURE CONTROL CONTROLLER
 TYP TYPICAL
 UG UNDERGROUND
 UN UNIT HEATER
 UL UNDERWRITERS' LABORATORIES, INC.
 UNO UNLESS NOTED OTHERWISE
 V VOLTS
 VFD VARIABLE FREQUENCY DRIVE
 W WATTS
 W WITH
 WO WITHOUT
 WP WEATHERPROOF
 WTS TRANSFORMER

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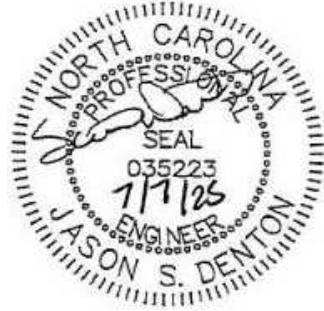
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Date: JULY 7, 2025

ELECTRICAL COVER SHEET

E0.01



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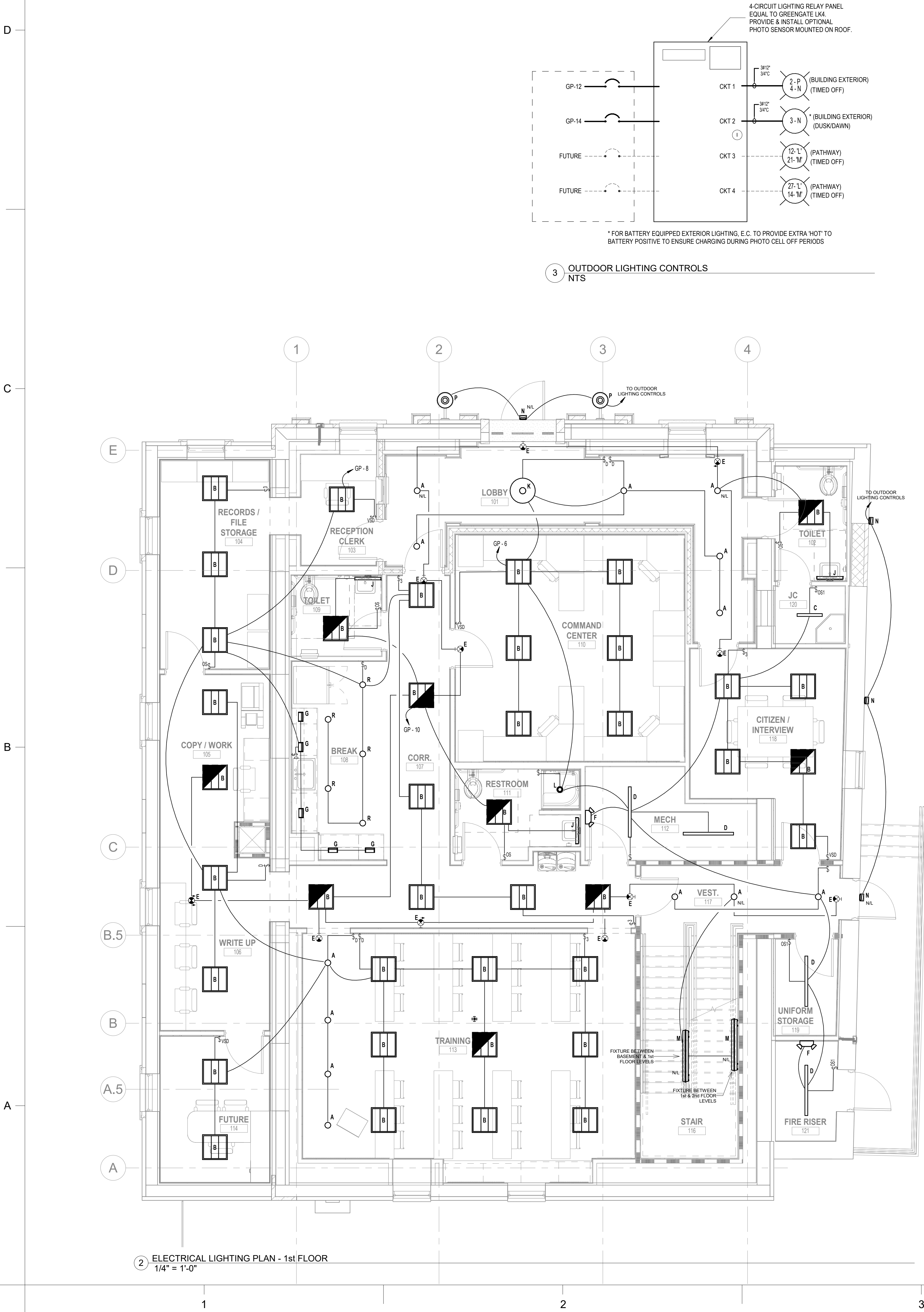
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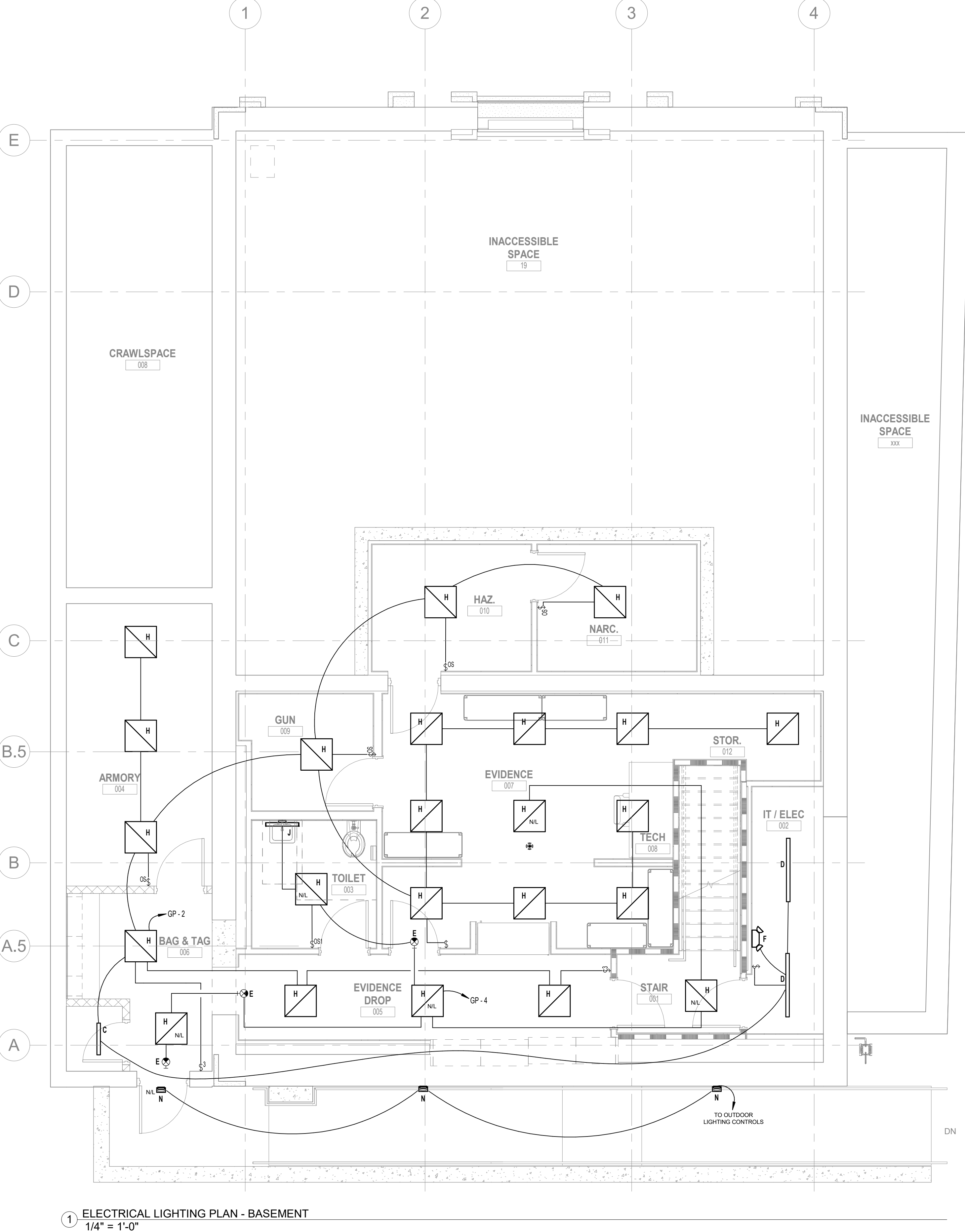
Project Number: 2023-001-01
Date: JULY 7, 2025

**ELECTRICAL
BASEMENT & FIRST
FLOOR LIGHTING
PLANS**

E1.11



2 ELECTRICAL LIGHTING PLAN - 1st FLOOR
1/4" = 1'-0"



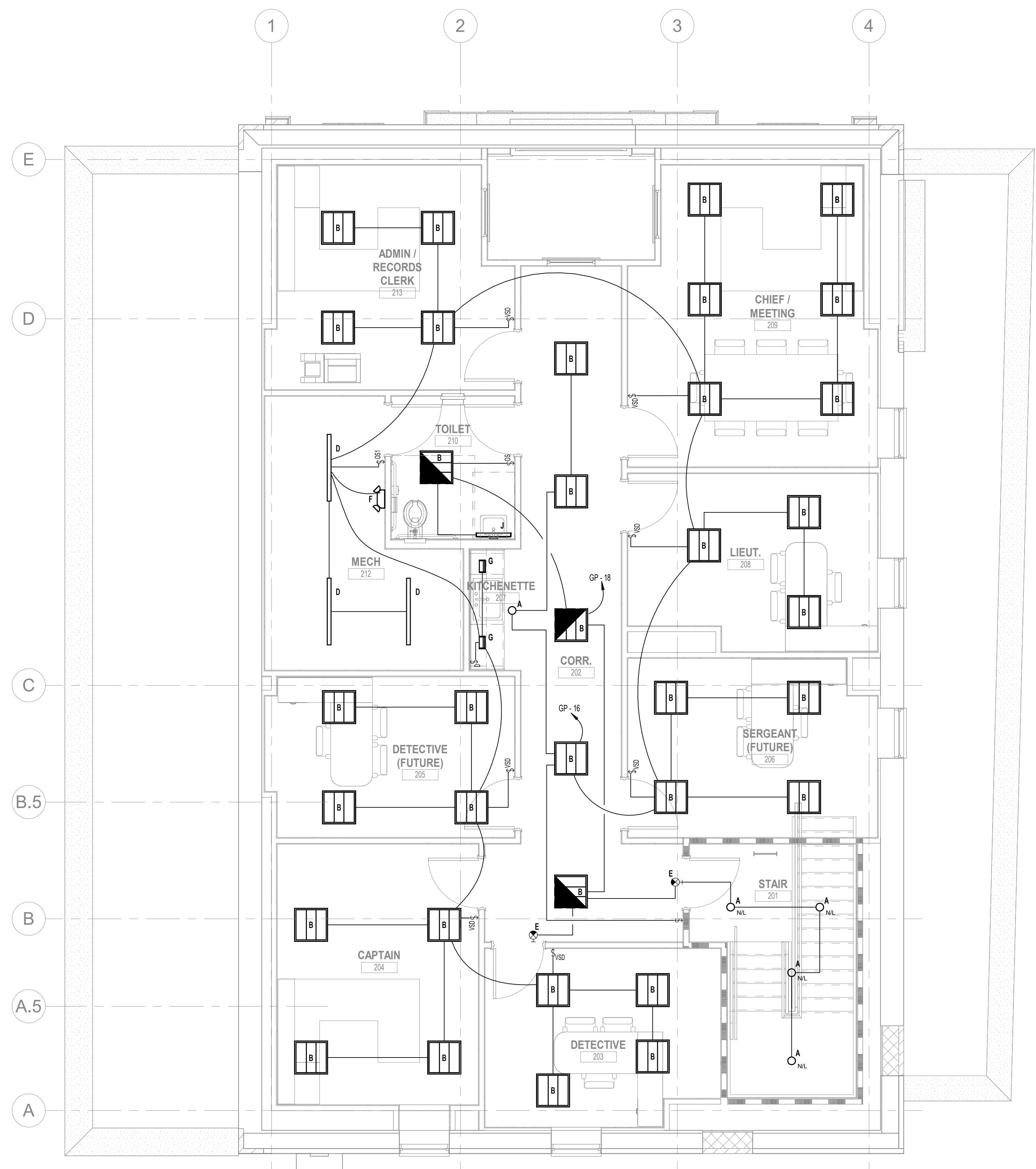
1 ELECTRICAL LIGHTING PLAN - BASEMENT
1/4" = 1'-0"

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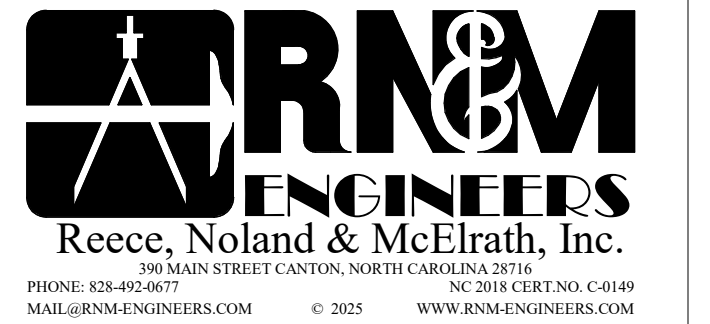


1 ELECTRICAL LIGHTING PLAN - 2nd FLOOR
1/4" = 1'-0"

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CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS
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ELECTRICAL SECOND FLOOR LIGHTING PLAN

E1.12

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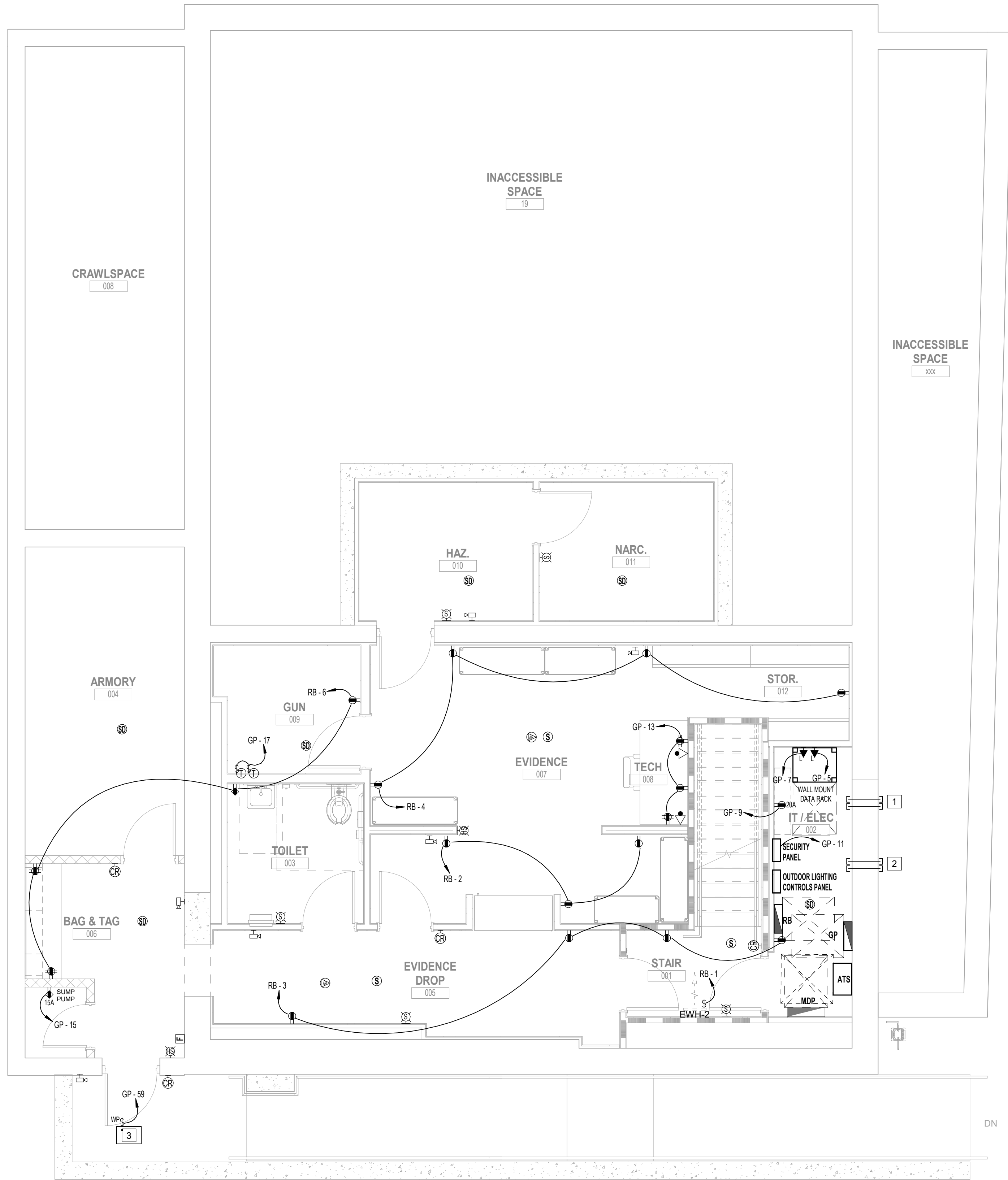
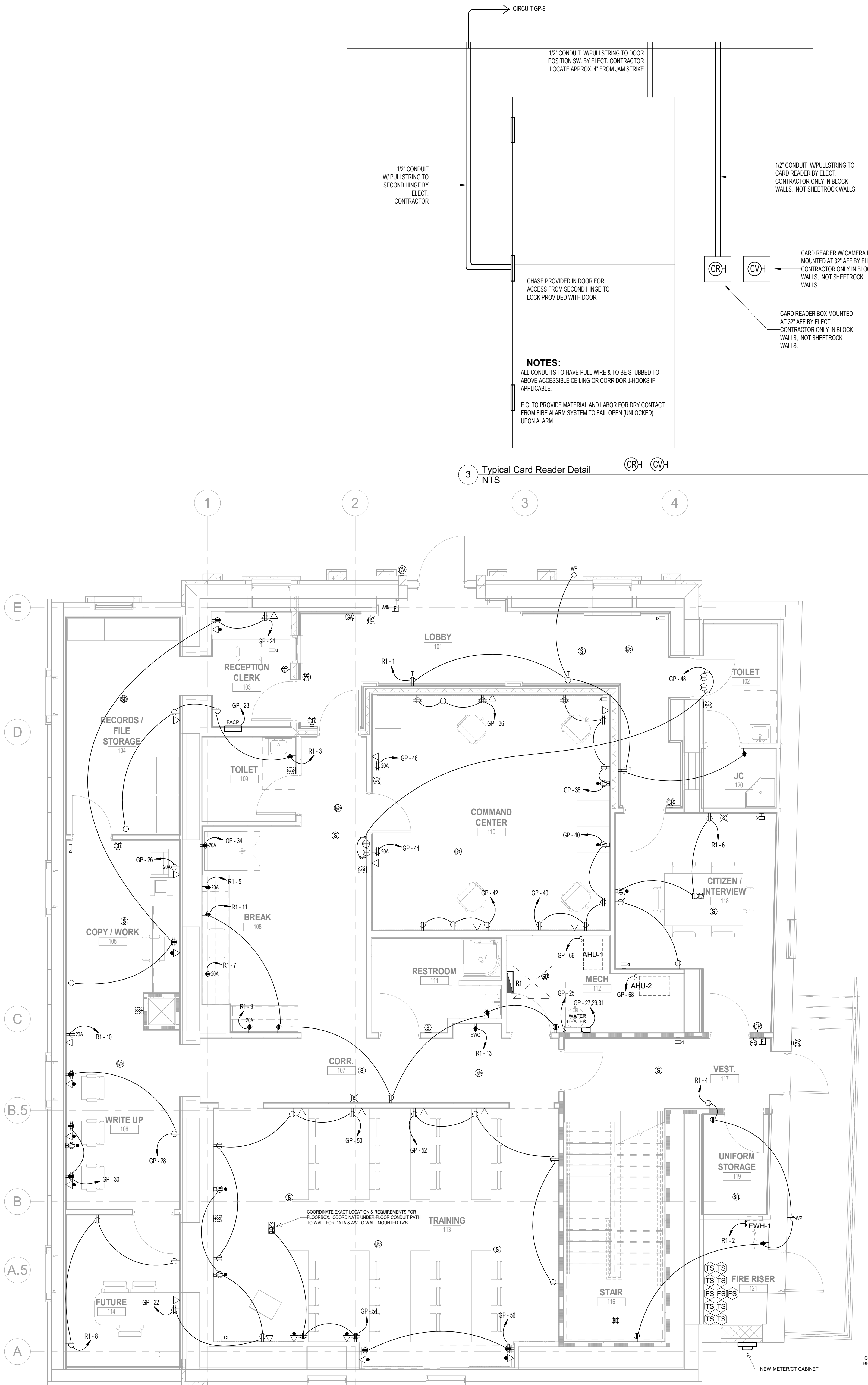
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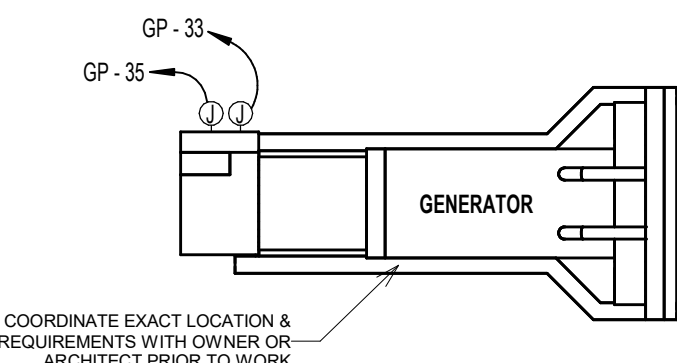
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1
ELECTRICAL POWER & RECEPTACLE PLAN -
BASEMENT
1/4" = 1'-0"

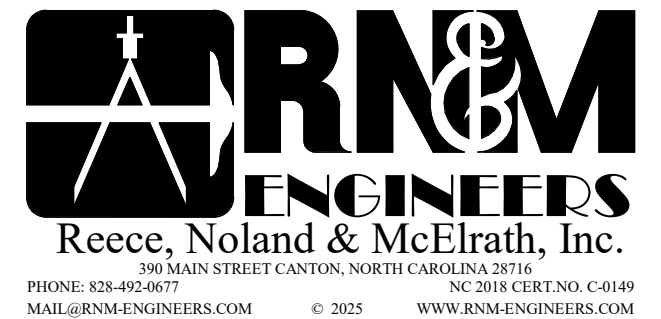
KEYED ELECTRICAL CONSTRUCTION NOTES	
APPLY TO THIS SHEET ONLY	
1	(2) 4" CONDUITS TO BE ROUTED THRU WALL ABOVE ACCESSIBLE CEILING FOR FIBER ENTRANCE INTO BUILDING. CLOSELY COORDINATE EXACT LOCATION, ROUTING & REQUIREMENTS W/ OWNER & ARCHITECT PRIOR TO ROUGH-IN. SEAL CONDUITS AS REQUIRED.
2	(2) 4" CONDUITS TO BE ROUTED THRU WALL ABOVE ACCESSIBLE CEILING FOR RADIO CONNECTION INTO BUILDING. CLOSELY COORDINATE EXACT LOCATION, ROUTING & REQUIREMENTS W/ OWNER & ARCHITECT PRIOR TO ROUGH-IN. SEAL CONDUITS AS REQUIRED.
3	NEW WATER SUMP PUMP LOCATED AT BASE OF STAIRS. COORDINATE EXACT LOCATION & REQUIREMENTS PRIOR TO ROUGH-IN. COORDINATE DESIRED DISCONNECT LOCATION WITH OWNER OR ARCHITECT PRIOR TO WORK.



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CANTON POLICE STATION RENO

No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

ELECTRICAL
BASEMENT & FIRST
FLOOR POWER &
RECEPTACLE PLANS

E1.21

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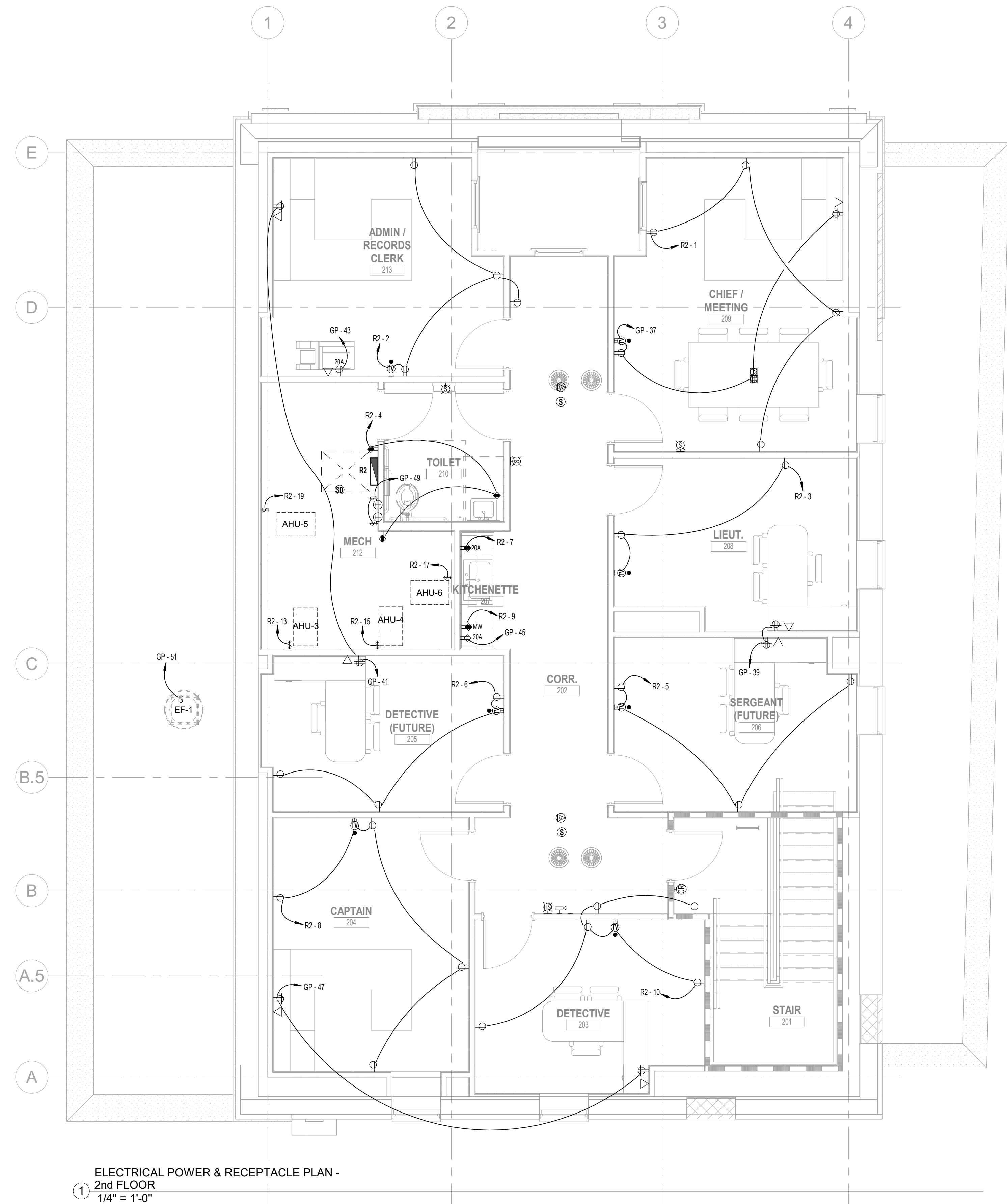
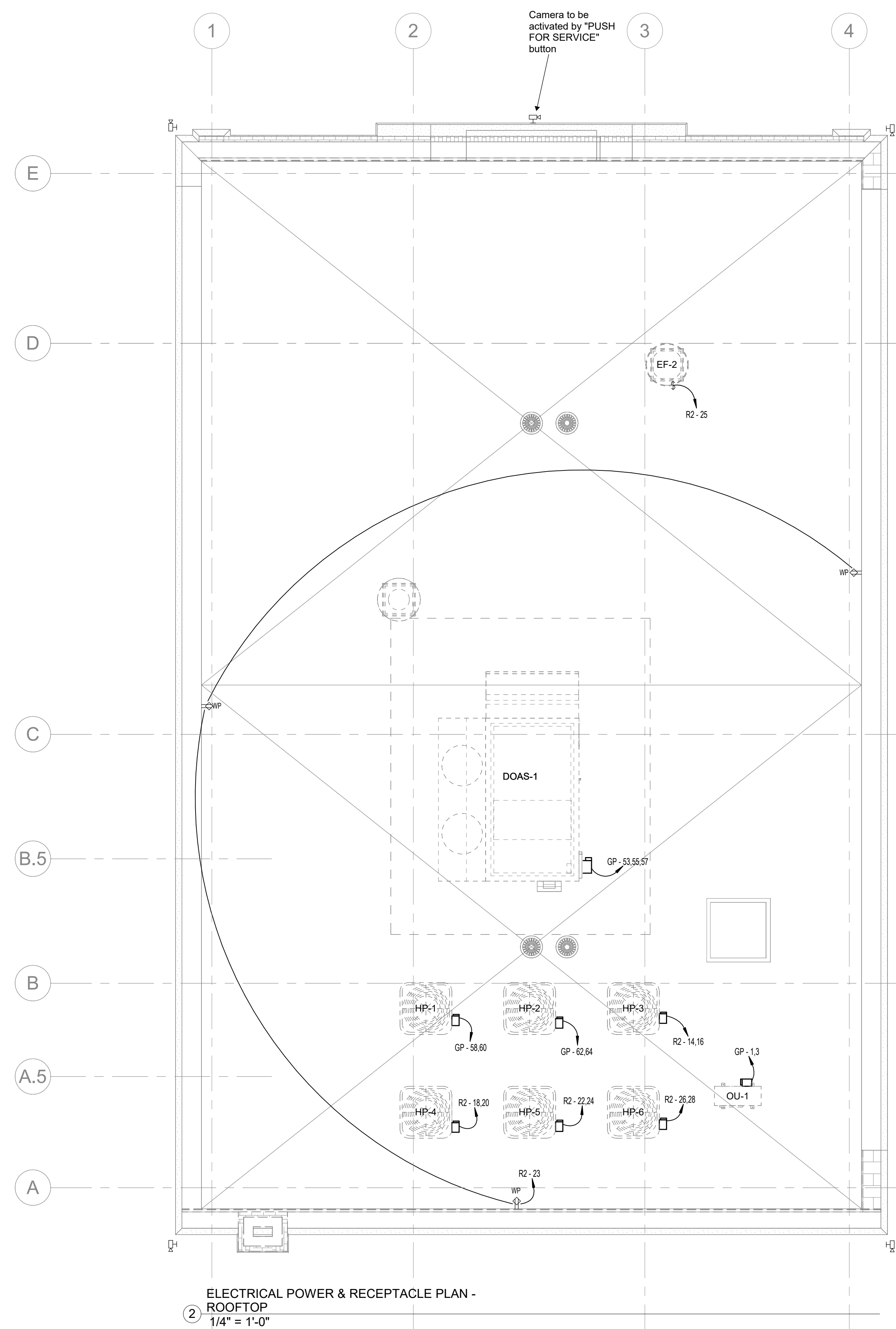
CANTON POLICE STATION RENO

[illegible]

Project Number:	2023-001-01
Date:	JULY 7, 2025

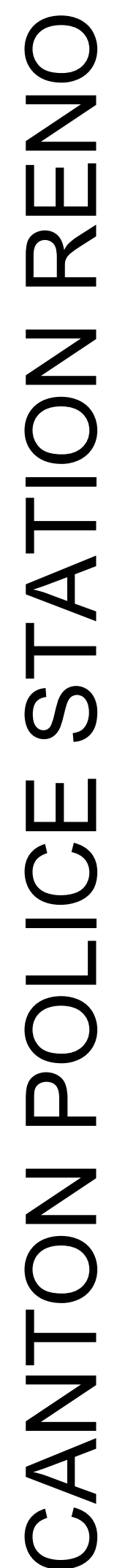
ELECTRICAL SECOND FLOOR & ROOFTOP POWER & RECEPTACLE PLANS

E1.22





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[illegible]

Project Number:	2023-001-01
Date:	JULY 7, 2025

E2.11





No.	Description	Date

Package: CONSTRUCTION DOCUMENTS

Project Number: 2023-001-01

Date: JULY 7, 2025

ELECTRICAL RISER & PANEL SCHEDULES

E3.11

Panel: R1

Location: MECH 112
Supply From: MDP
Mounting: Surface
Enclosure: Indoor

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Mains Type: MLO
Mains Rating: 150 A
Neutral Rating: 100.00%

PROVIDE DOOR-IN DOOR HINGED COVER										TOTAL LOAD: 13.5 kVA TOTAL.... 37.4 A			
CKT	DESCRIPTION	WIRE SIZE	COND	BKR	A	B	C	BKR	COND	WIRE SIZE	DESCRIPTION	CKT	
1	RCPT: LOBBY 101	1#12, 1#12, 1#12	1-20	A	0.9kVA	1.0kVA		1-20	A	1#12, 1#12, 1#12	ELECTRIC HEATER EWH-1	2	
3	RCPT: RECEPTION, RECORDS, TLT	1#12, 1#12, 1#12	1-20	A		0.7 kVA	0.9kVA	1-20	A	1#12, 1#12, 1#12	RCPT: VEST, STOR, RISER, STAIR	4	
5	RCPT: BREAK 108	1#12, 1#12, 1#12	1-20	A			1.4 kVA	0.9kVA	1-20	A	RCPT: CITIZEN INTERVIEW	6	
7	RCPT: BREAK 108	1#12, 1#12, 1#12	1-20	A	1.0kVA	1.1kVA			1-20	A	RCPT: TRAINING 113	8	
9	RCPT: BREAK 108	1#12, 1#12, 1#12	1-20	A		1.0kVA	0.9kVA		1-20	A	RCPT: TRAINING 113	10	
11	RCPT: BREAK 108	1#12, 1#12, 1#12	1-20	A			0.9 kVA	0.9kVA	1-20	A	RCPT: TRAINING 113	12	
13	RCPT: WATER COOLER	1#12, 1#12, 1#12	1-20	A	0.6kVA	0.7 kVA			1-20	A	RCPT: TRAINING 113	14	
15	SPARE		1-20	A		0.0 kVA	0.5kVA		1-20	A	RCPT: OFFICE 114	16	
17	SPARE	--	1-20	A			0.9 kVA	0.0kVA	1-20	A	--	SPARE	18
19	SPARE	--	1-20	A	0.0kVA	0.0kVA			1-20	A	--	SPARE	20
21	SPARE	--	1-20	A		0.0 kVA	0.0kVA		1-20	A	--	SPARE	22
23	SPARE	--	1-20	A			0.0 kVA	0.0kVA	1-20	A	--	SPARE	24
25	SPARE	--	1-20	A	0.0kVA	0.0kVA			1-20	A	--	SPARE	26
27	SPARE	--	1-20	A			0.0 kVA	0.0kVA	1-20	A	--	SPARE	28
29	SPARE	--	1-20	A			0.0 kVA	0.0kVA	1-20	A	--	SPARE	30
Total Load:					5.3 kVA	4.1 kVA	4.1 kVA						

LEGEND: * = GFCI CIRCUIT BREAKER; ** = LOCKING CIRCUIT BREAKER

SQUARE "D" No. NQOD SERIES, 208/120 VOLTS, 3ø, 4 WIRE, SOLID NEUTRAL, TINNED COPPER BUS BARS, GROUND BAR, 225 AMPERE MAIN LUGS, SURFACE MOUNTED, HINGED DOOR-IN-COVER PANEL, WITH BOLT IN BRANCH BREAKERS, SIZE AS INDICATED, MINIMUM FRAME SIZE AND A.I.C. RATING AS FOLLOWS:

MINIMUM BREAKER FRAME FOR "NQOD" SERIES: 1POLE="QOB", 2.3 POLE BELOW 100A=QOB (10K AIC), 2.3 POLE ABOVE 100A ="QOB-VH" (22K AIC)

NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO BELOW ALL SPARES TO BE 1P-20 A

NOTES: MINIMUM FEEDER SIZE TO BE #12. DISREGARD SCHEDULE "WIRE SIZE" FOR #14 OR SMALLER & UTILIZE #12.

Panel: R2

Location: MECH 212
Supply From: MDP
Mounting: Surface
Enclosure: Indoor

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Mains Type: MLO
Mains Rating: 150 A
Neutral Rating: 100.00%

PROVIDE DOOR-IN DOOR HINGED COVER										TOTAL LOAD: 24.4 kVA TOTAL.....				67.8 A	
CKT	DESCRIPTION	WIRE SIZE	COND	BKR	A	B	C	BKR	COND	WIRE SIZE	DESCRIPTION	CKT			
1	RCPT: CHIEF MEETING 209	1#12, 1#12, 1#12	1-20 A		0.7 kVA	0.7 kVA			1-20 A	1#12, 1#12, 1#12	RCPT: ADMIN RECORDS CLERK	2			
3	RCPT: LIEUTENANT 208	1#12, 1#12, 1#12	1-20 A			0.5 kVA	0.5 kVA		1-20 A	1#12, 1#12, 1#12	RCPT: MECH 212 TOILET	4			
5	RCPT: SERGEANT 206	1#12, 1#12, 1#12	1-20 A				0.7 kVA	0.7 kVA	1-20 A	1#12, 1#12, 1#12	RCPT: DETECTIVE 205	6			
7	RCPT: KITCHENETTE 207	1#12, 1#12, 1#12	1-20 A		0.5 kVA	0.9 kVA			1-20 A	1#12, 1#12, 1#12	RCPT: CAPTAIN 204	8			
9	RCPT: KITCHENETTE, MICROWAVE	1#12, 1#12, 1#12	1-20 A			1.2 kVA	1.1 kVA		1-20 A	1#12, 1#12, 1#12	RCPT: DETECTIVE 203	10			
11	SPARE	--	1-20 A					0.0 kVA	0.0 kVA	1-20 A	--	SPARE	12		
13	AIR HANDLER UNIT #3, AHU-3	1#12, 1#12, 1#14	1-15 A		1.1 kVA	1.4 kVA			2-20 A	2#12, 1#12, 1#12	ROOFTOP HEAT PUMP #3, HP-3	14			
15	AIR HANDLER UNIT #4, AHU-4	1#12, 1#12, 1#14	1-15 A			1.1 kVA	1.4 kVA		2-20 A	2#12, 1#12, 1#12	ROOFTOP HEAT PUMP #4, HP-4	16			
17	AIR HANDLER UNIT #5, AHU-5	1#12, 1#12, 1#14	1-15 A		1.1 kVA	1.4 kVA		1.1 kVA	1.4 kVA	2-20 A	2#12, 1#12, 1#12	ROOFTOP HEAT PUMP #4, HP-4	18		
19	AIR HANDLER UNIT #6, AHU-6	1#12, 1#12, 1#14	1-15 A		1.1 kVA	1.4 kVA				2-20 A	2#12, 1#12, 1#12	ROOFTOP HEAT PUMP #4, HP-4	20		
21	SPARE	--	1-20 A				0.0 kVA	1.7 kVA	2-25 A	2#10, 1#10, 1#10	ROOFTOP HEAT PUMP #5, HP-5	22			
23	RCPT: ROOFTOP	1#12, 1#12, 1#12	1-20 A					0.5 kVA	1.7 kVA	2-25 A	2#10, 1#10, 1#10	ROOFTOP HEAT PUMP #5, HP-5	24		
25	EXHAUST FAN 2, EF-2	1#12, 1#12, 1#12	1-20 A		0.6 kVA	1.4 kVA			2-20 A	2#12, 1#12, 1#12	ROOFTOP HEAT PUMP #6, HP-6	26			
27	SPACE ONLY	--	1-				1.4 kVA			1-	--	SPACE ONLY	28		
29	SPACE ONLY	--	1-						1-	--	SPACE ONLY	30			
31	SPACE ONLY	--	1-	--	--	--			1-	--	SPACE ONLY	32			
Total Load:												9.6 kVA			
Total Amps:												83.6 A			

LEGEND: * = GFCI CIRCUIT BREAKER; ** = LOCKING CIRCUIT BREAKER

SQUARE "D" No. NQOD SERIES, 208/120 VOLTS, 3ø, 4 WIRE, SOLID NEUTRAL, TINNED COPPER BUS BARS, GROUND BAR, 225 AMPERE MAIN LUGS, SURFACE MOUNTED, HINGED DOOR-IN-COVER PANEL, WITH BOLT IN BRANCH BREAKERS, SIZE AS INDICATED, MINIMUM FRAME SIZE AND A.I.C. RATING AS FOLLOWS:

MINIMUM BREAKER FRAME FOR "NQOD" SERIES: 1POLE="QOB", 2.3 POLE BELOW 100A=QOB (10K AIC), 2.3 POLE ABOVE 100A ="QOB-VH" (22K AIC)

NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO BELOW ALL SPARES TO BE 1P-20 A

NOTES: MINIMUM FEEDER SIZE TO BE #12. DISREGARD SCHEDULE "WIRE SIZE" FOR #14 OR SMALLER & UTILIZE #12.

Panel: GP

Location: IT / ELEC 002
Supply From: MDP
Mounting: Surface
Enclosure: Indoor

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Mains Type: MLO
Mains Rating: 225 A
Neutral Rating: 100.00%

PROVIDE DOOR-IN DOOR HINGED COVER								TOTAL LOAD: 63.3 kVA TOTAL AMPS: 175.7 A				
CKT	DESCRIPTION	WIRE SIZE	COND	BKR	A	B	C	BKR	COND	WIRE SIZE	DESCRIPTION	CKT
1	ROOFTOP MINI-SPLIT, ODU-1	2#12, 1#12, 1#12		2-20 A	13 kVA	0.7 kVA		1-20 A		1#12, 1#12, 1#12	LTG: BASEMENT	2
3	RCPT: ITELEC DATA RACK	1#12, 1#12, 1#12		1-20 A		1.3 kVA	0.2 kVA	1-20 A		1#12, 1#12, 1#12	LTG: BASEMENT NIL EGRESS	4
5	RCPT: ITELEC DATA RACK	1#12, 1#12, 1#12		1-20 A	1.0 kVA	0.7 kVA		1.0 kVA	0.4 kVA	1-20 A	LTG: COMMAND. INTERVIEW, MECH	6
7	DOOR ACCESS CONTROLS	1#12, 1#12, 1#12		1-20 A		0.5 kVA	0.3 kVA	1-20 A		1#12, 1#12, 1#12	LTG: 1st FLOOR NIL EGRESS	8
11	SECURITY ALARM PANEL (**)	1#12, 1#12, 1#12		1-20 A			0.5 kVA	0.4 kVA	1-20 A	1#12, 1#12, 1#12	LTG: OUTDOOR (TIMER)	10
13	RCPT: TECH DESK 008	1#12, 1#12, 1#12		1-20 A	0.9 kVA	0.1 kVA		1-20 A		1#12, 1#12, 1#12	LTG: OUTDOOR (DAWN/DUSK)	12
15	RCPT: SUMP PUMP	1#12, 1#12, 1#14		1-15 A		0.9 kVA	1.0 kVA	1-20 A		1#12, 1#12, 1#12	LTG: 2nd FLOOR	16
17	BASEMENT TLT SENSORS	1#12, 1#12, 1#12		1-20 A			0.2 kVA	0.2 kVA	1-20 A	1#12, 1#12, 1#12	LTG: 2nd FLOOR NIL EGRESS	18
19	SPARE	--		1-20 A	0.0 kVA	0.0 kVA		1-20 A	--	--	SPARE	20
21	SPARE	--		1-20 A		0.0 kVA	0.0 kVA	1-20 A		--	SPARE	22
23	FIRE ALARM PANEL (**) (											

D

C

B

A



2 ELECTRICAL DEMOLITION PLAN - 1st FLOOR
1/4" = 1'-0"

1

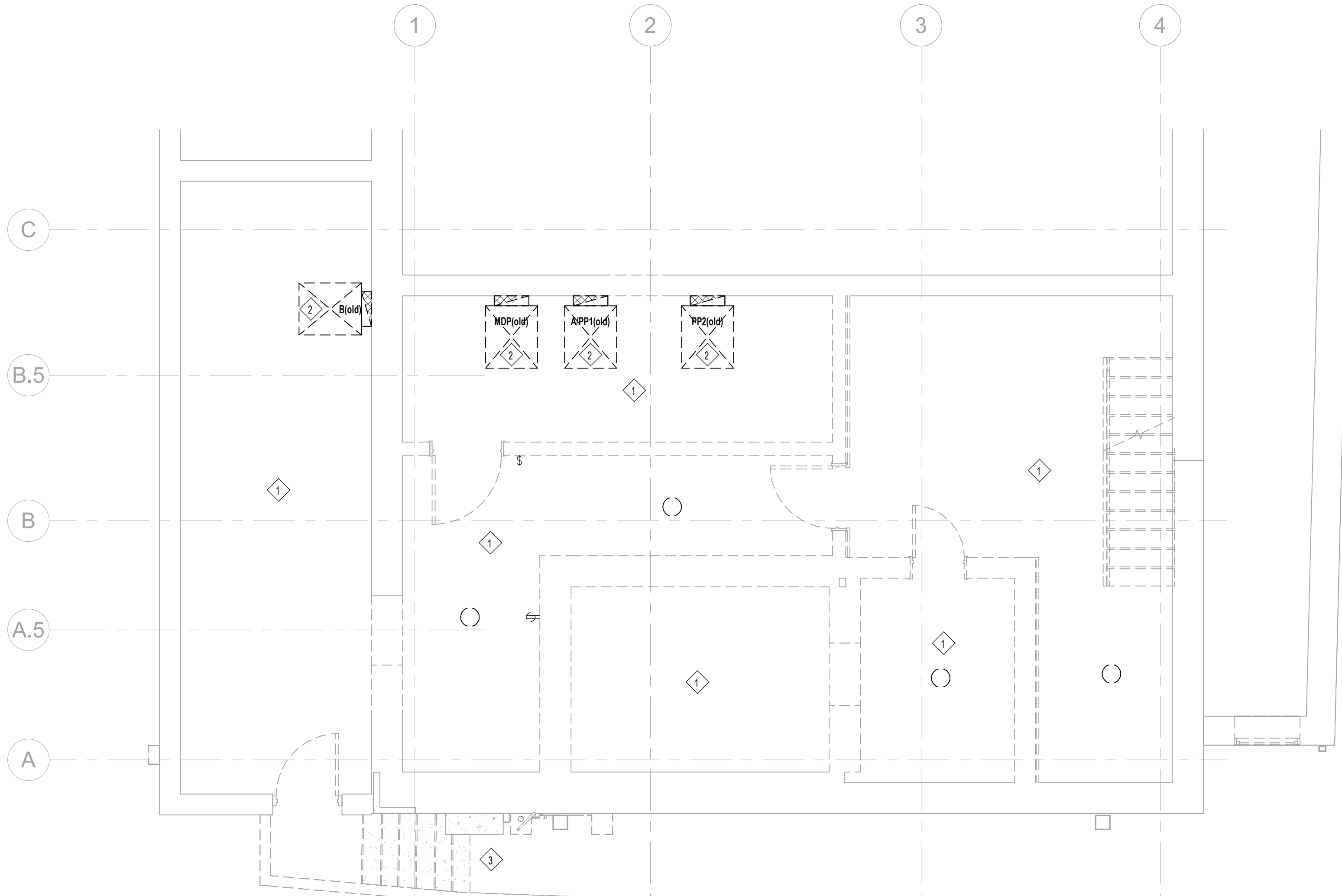
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KEYED ELECTRICAL DEMOLITION NOTES

APPLY TO THIS SHEET ONLY

- 1 THIS ROOM / AREA - ALL EXISTING ELECTRICAL DEVICES TO BE REMOVED UNLESS NOTED OTHERWISE. EXISTING WIRING & CONDUIT TO BE REMOVED TO SOURCE.
- 2 EXISTING ELECTRICAL PANEL TO BE REMOVED & TURNED OVER TO OWNER. COORDINATE NEW SERVICE TO THE BUILDING WITH ELECTRICAL PLANS.
- 3 ALL EXISTING ELECTRICAL DEVICES ON EXTERIOR ARE TO BE REMOVED & TURNED OVER TO OWNER. EXISTING WIRING & CONDUIT TO BE REMOVED TO SOURCE. COORDINATE PATCHING EXISTING EXTERIOR WALLS WITH OWNER.



1 ELECTRICAL DEMOLITION PLAN - BASEMENT
1/4" = 1'-0"

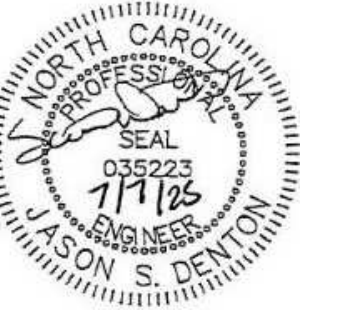
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CANTON POLICE STATION RENO

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ELECTRICAL DEMOLITION PLANS

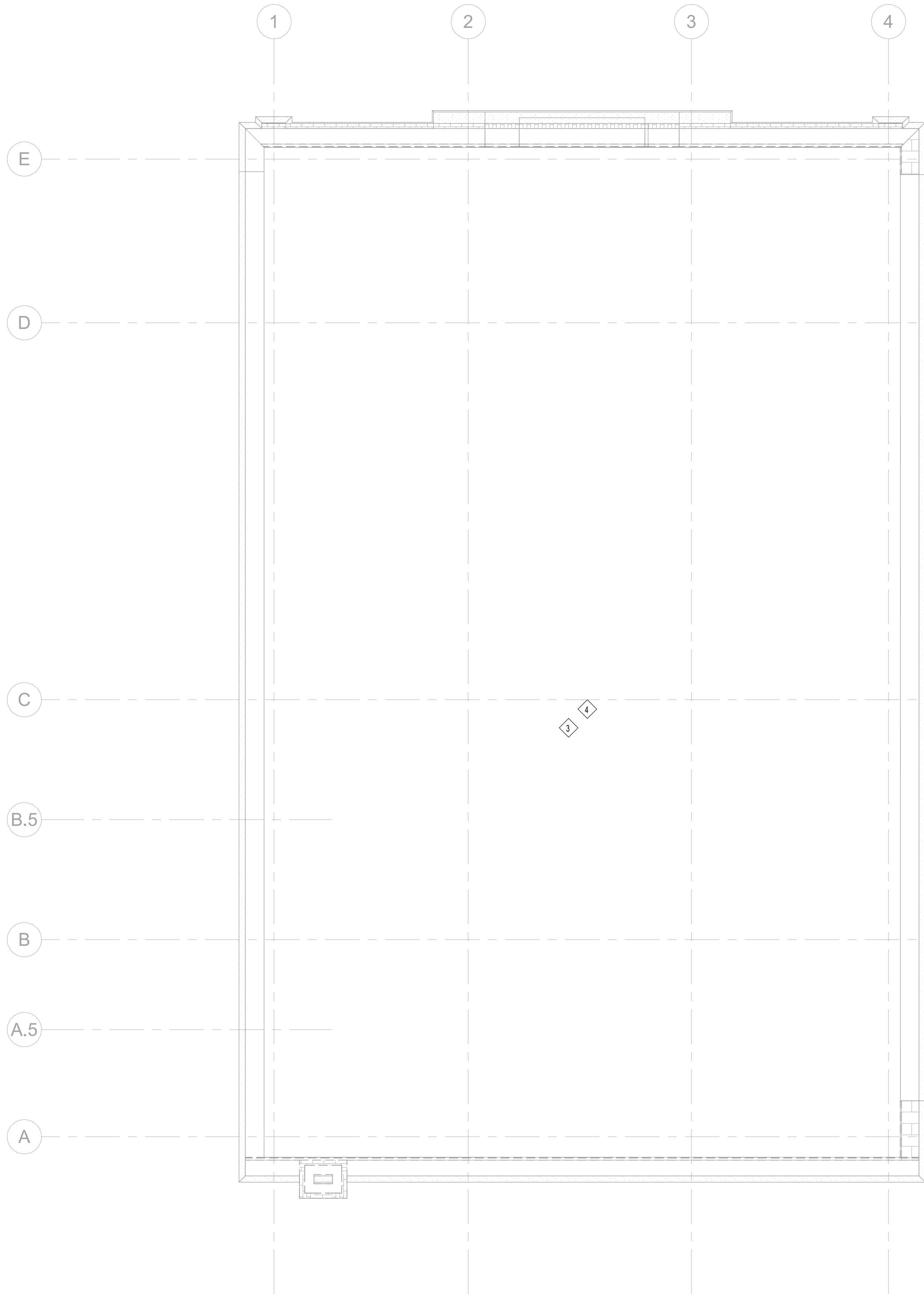
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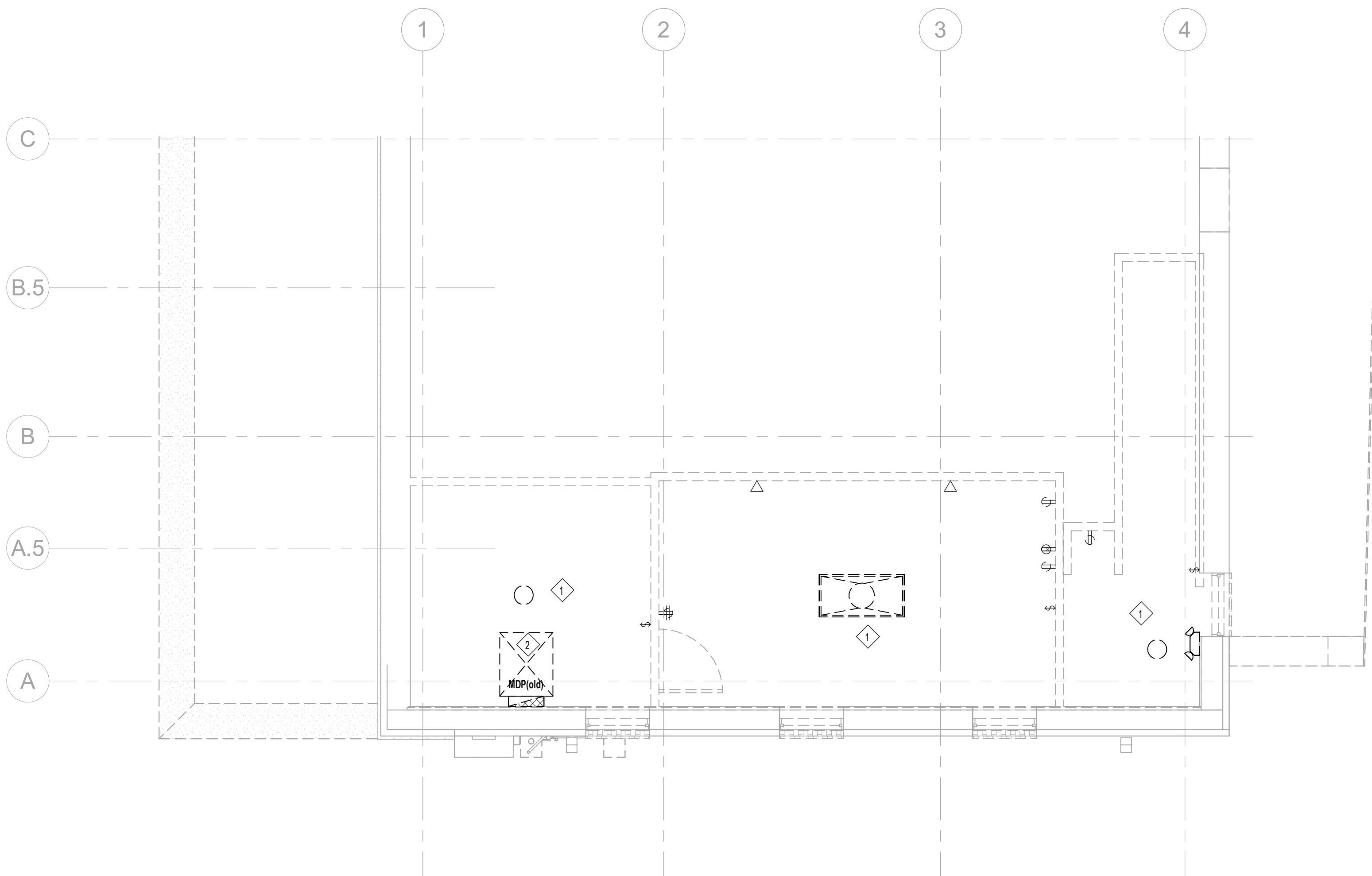
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2 ELECTRICAL DEMOLITION PLAN - ROOFTOP
1/4" = 1'-0"

KEYED ELECTRICAL DEMOLITION NOTES	
APPLY TO THIS SHEET ONLY	
1	THIS ROOM / AREA - ALL EXISTING ELECTRICAL DEVICES TO BE REMOVED UNLESS NOTED OTHERWISE. EXISTING WIRING & CONDUIT TO BE REMOVED TO SOURCE.
2	EXISTING ELECTRICAL PANEL TO BE REMOVED & TURNED OVER TO OWNER. COORDINATE NEW SERVICE TO THE BUILDING WITH ELECTRICAL PLANS.
3	ALL EXISTING ELECTRICAL DEVICES ON EXTERIOR ARE TO BE REMOVED & TURNED OVER TO OWNER. EXISTING WIRING & CONDUIT TO BE REMOVED TO SOURCE. COORDINATE PATCHING EXISTING EXTERIOR WALLS WITH OWNER.
4	EXISTING ROOFTOP HVAC DEVICES TO BE REMOVED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO REMOVE EXISTING DISCONNECTS & FEEDER WIRING & CONDUIT TO SOURCE.

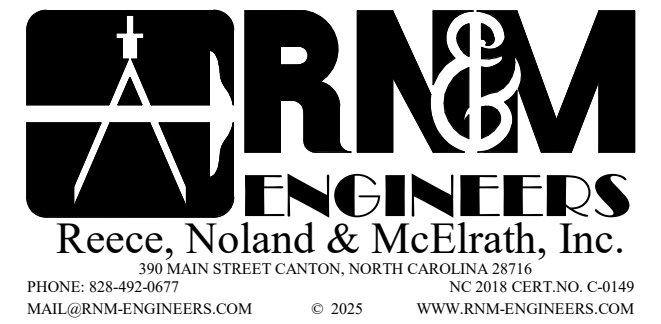


1 ELECTRICAL DEMOLITION PLAN - SECOND FLOOR
1/4" = 1'-0"

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ELECTRICAL
DEMOLITION PLANS

ED1.12