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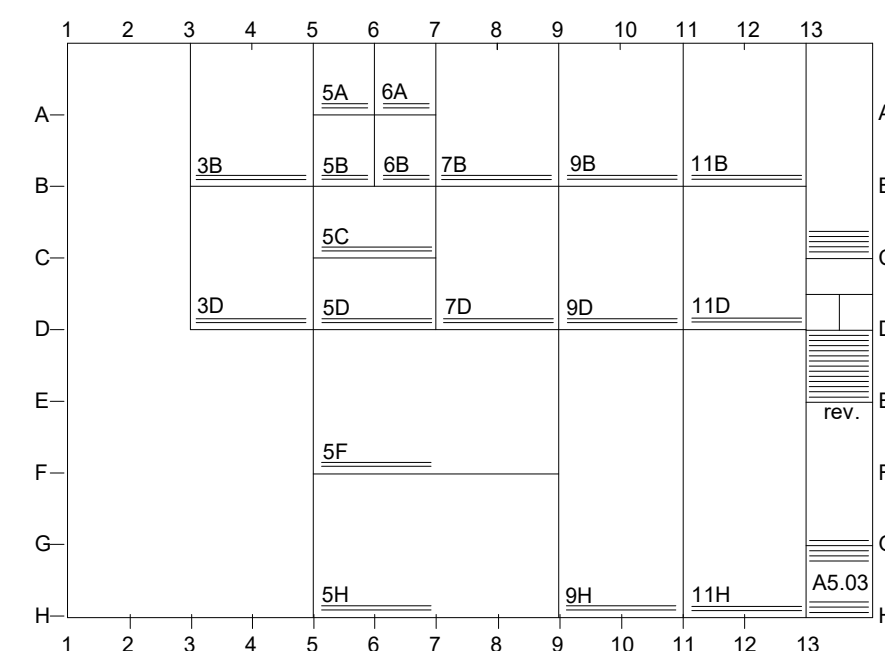


630 N. Liberty Street | Winston-Salem, NC 27101
 p. 336.701.0130 | www.stitchdesignshop.com

DATE: 08/23/2024 PROJECT NUMBER: 24-140

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DETAIL REFERENCE



DETAILS ARE REFERENCED ACCORDING TO THEIR POSITION ON THE DRAWING SHEET. THE SYSTEM IS SIMILAR TO THAT OF A MAP. THE DRAWING SHEET IS DIVIDED INTO A GRID WITH LETTERS ON THE SIDES AND NUMBERS GOING ACROSS AS SHOWN ABOVE. FOR EXAMPLE DETAIL 9D.A5.03 WOULD BE FOUND AT THE INTERSECTION OF LINES 9 AND ON SHEET A5.03

PATRIOTS PARK RESTROOM FACILITY

PONDEROSA ROAD
CAMERON, NC



ABBREVIATIONS

&	and	C.H.	ceiling height	E.C.	electrical contractor	H.B.	hose bibb	MAX.	maximum	Q.T.	quarry tile	SUSP.	suspended
∠	angle	C.I.	cast iron	E.J.	expansion joint	H.C.	hollow core	MBR.	member	R.	riser, radius	SW.	switch
@	at	C.J.	control joint or construction joint	E.W.C.	electric water cooler	H.M.	hollow metal	MECH.	mechanic (al)	R.A.	return air	SYM.	symmetry (ical)
⊕	centerline	C.M.T.	ceramic mosaic tile	E.A.	each	H.P.	horsepower	MED.	medium	R.C.P.	reinforced concrete pipe	T&B.	top and bottom
⊖	channel	C.M.	concrete masonry unit	E.LAS.	elastomeric	H.D.W.	hardware	MEMB.	membrane	R.D.	roof drain	T&G.	tongue and groove
∅	diameter or round	C.T.	ceramic tile	ELEC.	electric (al)	H.W.D.	hardwood	MTL.	metal	R.H.	right hand	T.	thead
⊥	perpendicular	C. to C.	center to center	ELEC. CAB.	electric cabinet	HORIZ.	horizontal	MEZZ.	mezzanine	R.O.	rough opening	T.C.	top of curb
Ⓜ	plate	CAB.	cabinet	ELEV.	elevator, elevation	HT.	height	MIN.	minimum	R.O.W.	right of way	T.P.	top of pavement
#	pound or number	CARP.	carpet	EMER.	emergency	HVAC.	heating/ventilating /air conditioning	MISC.	miscellaneous	REBAR.	reinforcing bar	T.P.D.	top of paper dispenser
		CEM.	cement	ENCL.	enclose (ure)	HWY.	highway	MOD.	modified	REC.	recessed	T.W.	top of wall
		CER.	ceramic	ENTR.	entrance	I.P.S.	iron pipe size	MTD.	mounted	RECT.	rectangular	TEL.	telephone
		CLG.	ceiling	EQ.	equipment	ID.	inside diameter	MUL.	mullion	REF.	reference	TEMP.	tempered or temperature
		CLO.	closet	EQUIP.	equipment	IN.	inch(es)	N.	north	REFRG.	refrigerator	TERZ.	terrazzo
		CLR.	clear	ESTB.	establish	INCL.	include (ed) (sion)	N.I.C.	not in contract	REG.	register	THK.	thick (ness)
		CNTR.	counter	EXP.	expansion	INSUL.	insulation (ed)	N.T.S.	not to scale	REINF.	reinforced	THRES.	threshold
		COL.	column	EXTG.	existing	INTR.	interior	NO. or #	number	REQ.	required	TLT.	toilet
		COMP.	composition	EXT.	exterior	INV.	invert	NOM.	nominal	RESIL.	resilient	TV.	television
		CONC.	concrete	F.B.O.	furnished by others	INV. EL.	invert elevation	O. to O.	out to out	REV.	revisions(s), revised	TYP.	typical
		CONF.	conference	F.D.	floor drain	JAN.	janitor	O.C.	out on center (s)	RFG.	roofing	U.O.N.	unless otherwise noted
		CONN.	connection	F.E.	fire extinguisher	J.T.	joint	O.D.	outside diameter	RM.	room	UTIL.	utility
		CONSTR.	construction	F.H.C.	fire hose cabinet	K.D.	kiln dried or knock down	OFF.	office	S-P.	single-ply	V.B.	vinyl base
		CONT.	continuous	F.O.C.	face of concrete	K.O.	knockout	O.H.	opposite hand	S.	solid core	V.C.T.	vinyl composition tile
		CORR.	corridor	F.O.F.	face of finish	KIT.	kitchen	OPNG.	opening	S.C.	structural control joint	V.F.	verify in field
		CSMT.	casement	F.O.S.	face of studs	LAV.	lavatory	OPP.	opposite	S.C.J.	soap dispenser or storm drain	V.I.F.	vinyl fabric
		CTR.	center	F.S.	full size	L.W.	live load	OUT.	outvert	S.D.	sanitary napkin dispenser	V.I.	vinyl tile
		CNTSK.	counter/sink (sunk)	F.T.F.	face to face	L.	left, length	OZ.	ounce	S.N.D.	sanitary napkin dispenser	V.W.F.	vinyl wall fabric
		DN.	down	FTN.	foundation	L.H.	left hand	P.C.	plumbing contractor	S.N.R.	sanitary napkin receptacle	VENT.	ventilating
		DR.	door	FTG.	footing	L.L.	live load	P.C.F.	pounds per cubic foot	S.S.	stainless steel	VERT.	vertical
		DRG.	drawing	FTG.	footing	L.P.	low point	P.L.F.	pounds per lineal foot	S.T.C.	sound transmission classification	VEST.	vestibule
		DSL.	downspout	FURN.	furnish	L.R.	living room	P.LAM.	plastic laminate	SAS.	sanitary	VOL.	volume
		DTL.	detail	FURR.	furring	L.W.	living room	P.S.F.	pounds per square foot	SAN.	sanitized 4 sides	W.	west, women
		DWG.	drawing	FUT.	future	LWB.	lightweight	LAB.	laboratory	SCH.	schedule	W.C.	water closet
		DWR.	drawers	F.V.	field verify	LAM.	laminated (d)	LAV.	lavatory	SECT.	section	W.F.	wide flange
		E.	east	G.B.	grab bar	LAV.	lavatory	L.T.	light	SFTWD.	softwood	W.I.	wrought iron
				G.C.	general contractor	LVT.	light vinyl tile	LTG.	lighting	SHT.	sheet	W.W.F.	welded wire fabric
				GA.	gauge	LVR.	louver	LTV.	lighting	SHW.	shower	W/WD.	with/without
				GALV.	galvanized	M.C.	medicine cabinet or mechanical contractor	LTV.	lighting	SHW.	shower	W/WD.	with/without
				GL.	glass, glazing	M.H.	manhole	MACH.	machine	SIM.	similar	WP	waterproofing
				GR.	grade	M.O.	masonry opening	MAINT.	maintenance	SPEC.	specification	WSC.T.	wainscot
				GYP.	gypsum	M.A.S.	masonry	MANT.	mantle	SQ. FT.	square foot	WT.	weight
						MATL.	material (s)	MAS.	masonry	STD.	standard	YD.	yard
								MATL.	material (s)	STOR.	storage		
								P.V.C.	polyvinyl chloride	STRUC.	structure (al)		
								P.V.M.T.	pavement	SURF.	surface		

MATERIAL DESIGNATIONS

	EARTH		FINISHED WOOD
	GRAVEL		PLYWOOD
	CONCRETE		ROUGH WOOD FRAMING / BLOCKING
	PLASTER, SAND, GROUT, GYPSUM		BATT INSULATION
	BRICK		RIGID INSULATION
	CMU		ACOUSTICAL TILE
	STEEL		CARPET

SYMBOLS

	SECTION REFERENCE		EXTERIOR ELEVATION REFERENCE
	DETAIL REFERENCE / LARGE SCALE PLAN REFERENCE		INTERIOR ELEVATION REFERENCE
	MILLWORK ELEVATION REFERENCE		DOOR NUMBER
	ROOM NAME & NUMBER		ROOM NAME & NUMBER

REFERENCES:

	SHEET NUMBER		COLUMN GRID DESIGNATION
	WINDOW/LOUVER/OTHER OPENING		NEW SPOT ELEVATION
	EXISTING SPOT ELEVATION		SPECIAL WALL TYPE
	REVISION		REFERENCE TO TYPICAL NOTE
	NORTH ARROWS		

TRUE NORTH PLAN NORTH

ARCHITECT

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 630 N. Liberty Street
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 336.701.0130

CIVIL / LANDSCAPE

STIMMEL Associates, P.A.
 601 Trade Steet #201
 Winston-Salem, NC 27101

STRUCTURAL

SELECT Engineering
 1250 Revolution Mill Drive #143
 Greensboro, NC 27405
 978.793.2297

MEP

Consulting Engineering Services
 111 S. Marshall Street
 Winston-Salem, NC 27101
 336.724.0139

CONSTRUCTION DOCUMENTS

Patriots Park
 721 Ponderosa Rd, Cameron, NC 28326

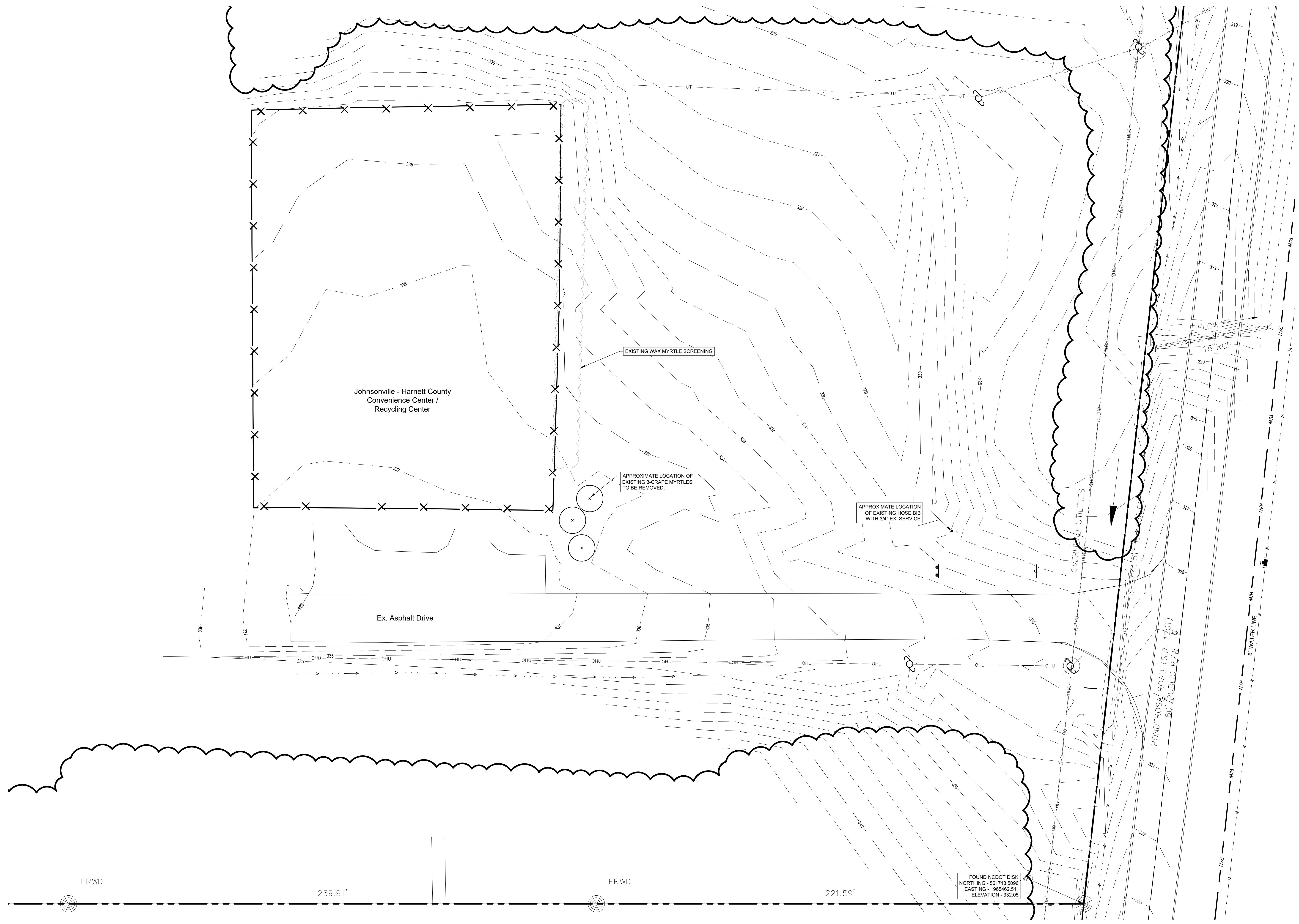
CLIENT:
 DEVON LEONARD
 STITCH DESIGN SHOP
 350 LIBERTY STREET
 WINSTON-SALEM, NC 27101

DATE: 09/03/24
 REVISIONS:

 DRAWN: KMB, DJ, CC
 JOB NO: 24-015
 SHEET TITLE:

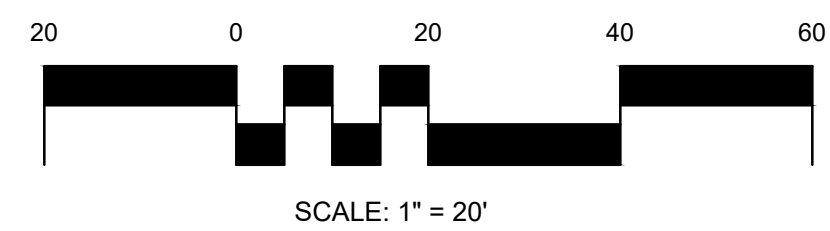
EXISTING CONDITIONS

SCALE: AS NOTED
 SHEET NO.:
C-1.00
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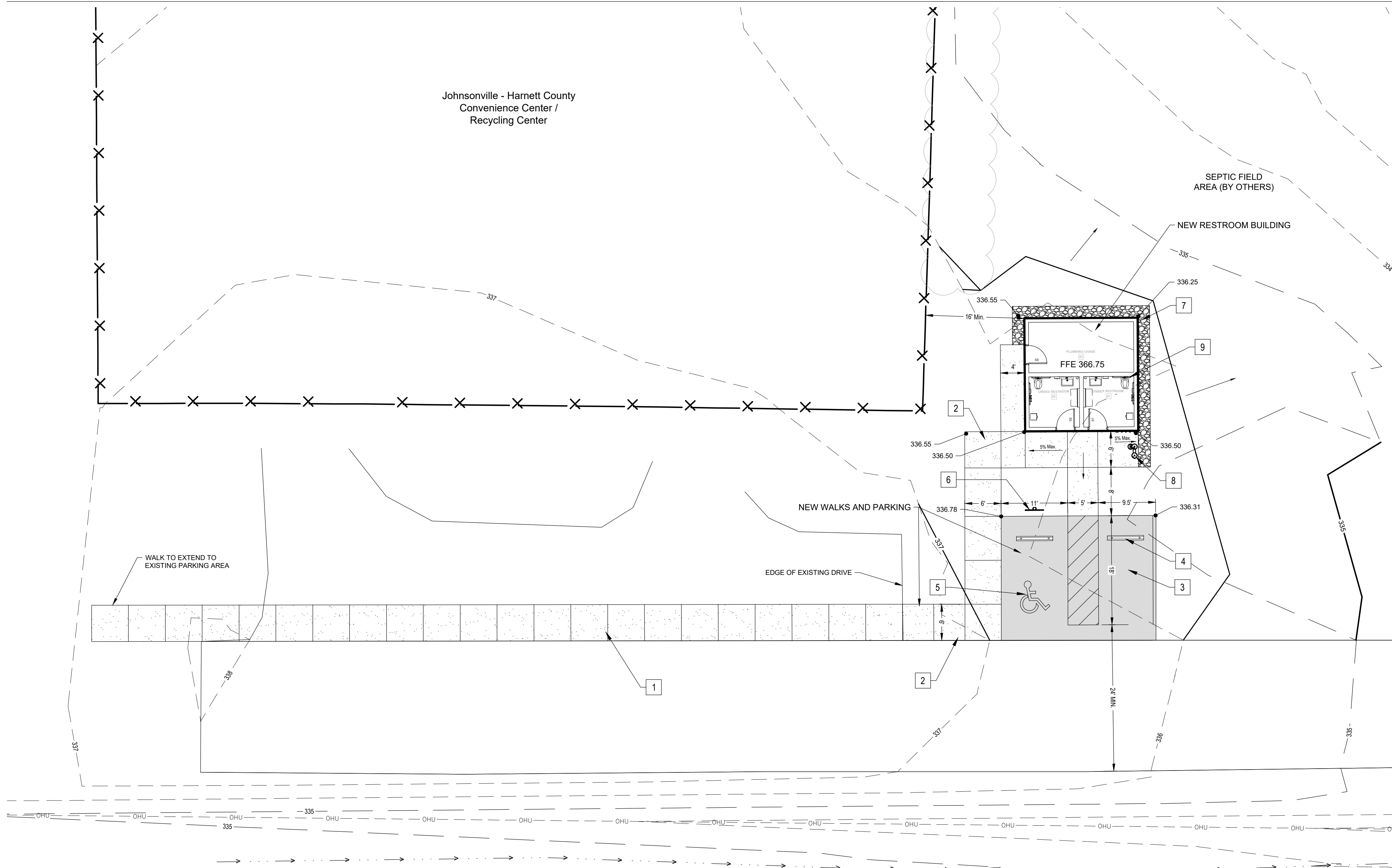


FOUND NCDOT DISK
 NORTHING - 561713.5096
 EASTING - 1965462.511
 ELEVATION - 332.05

SURVEY DISCLAIMER:
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 SMITH GARDNER ENGINEERS
 14 N. BOYLAN AVENUE, RALEIGH NC 27603, TEL:(919) 828-0577
 DATED: MAY 9, 2024



SITE - GRADING PLAN



SITE REFERENCE NOTES:

- 1 HEAVY DUTY CONCRETE WALK
SEE DET #1, SHEET C-6.00
- 2 STANDARD CONCRETE WALK, FLUSH WITH ASPHALT PAVING
SEE DET #2, SHEET C-6.00
- 3 ASPHALT PAVING
SEE DET #3, SHEET C-6.00
- 4 CONCRETE WHEELSTOP
SEE DET #4, SHEET C-6.00
- 5 HC PARKING SPACE
SEE DET #5, SHEET C-6.00
- 6 HC PARKING SIGNAGE
SEE DET #6, SHEET C-6.00
- 7 3-5" SIZE RIVER STONE GRAVEL - LIGHT COLORS - WITH 5" METAL EDGING. SEE DET #7, SHEET C-6.00
- 8 MOST DEPENDABLE FOUNTAIN, MODEL 440 SSM
- 9 NEW RESTROOMS BUILDING, SEE ARCHITECTURAL DRAWINGS

GENERAL NOTES:

- GENERAL CONTRACTOR TO:
1. VISIT SITE AND BRING TO THE OWNER'S REPRESENTATIVE ATTENTION IN WRITING ANY PROBLEMS OR DISCREPANCIES WITH SITE OR PROJECT PRIOR TO BIDDING AND CONSTRUCTION.
 2. COORDINATE WITH THE OWNER FOR PHASING OF CONSTRUCTION. INSURE HIGH LEVEL OF SAFETY DURING ALL PHASES OF CONSTRUCTION.
 3. CHECK ALL "VERIFY" DIMENSIONS NOTED ON PLANS. REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE IN WRITING PRIOR TO ANY FURTHER CONSTRUCTION.
 5. OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO: BUILDING, GRADING, UTILITY, EROSION CONTROL, LAND DISTURBANCE, RIGHT OF WAY ENCROACHMENT, PUBLIC WATER AND/OR SEWER EXTENSION AND OCCUPANCY.
 6. KEEP ALL PLANTING AND GRASS AREAS FREE OF DEBRIS, STONES, CONSTRUCTION MATERIALS, ETC.
 7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND UTILITIES SHOWN ON SITE PLAN. UTILITIES SHOWN ON SITE PLAN ARE BASED ON THE SURVEY PROVIDED BY OTHERS MAY NOT BE ALL INCLUSIVE. CONTACT ULOCO OR OTHER APPROPRIATE UTILITY LOCATION SERVICE FOR UTILITY IDENTIFICATION PRIOR TO ANY WORK.
 8. PATCH/REPAIR STREETS, STRUCTURES, ETC. AS NECESSARY AFTER CONNECTION OF PROPOSED UTILITIES.
 9. COORDINATE ANY CONDUIT/IRRIGATION SLEEVES PRIOR TO INSTALLATION OF PAVEMENT
 10. COORDINATE SITE LIGHTING WITH SITE LAYOUT AND ARCHITECTURAL PLANS.

PLANT LIST

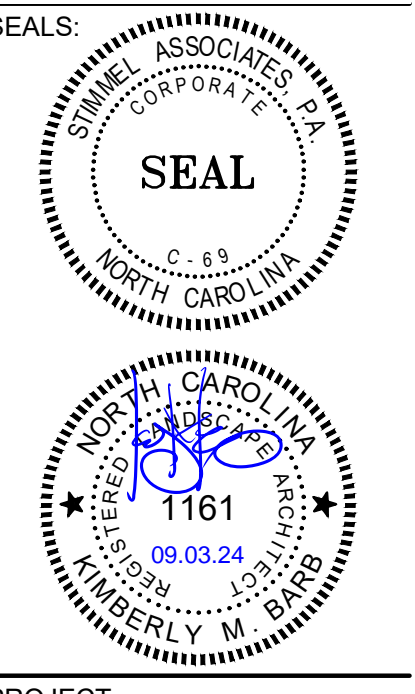
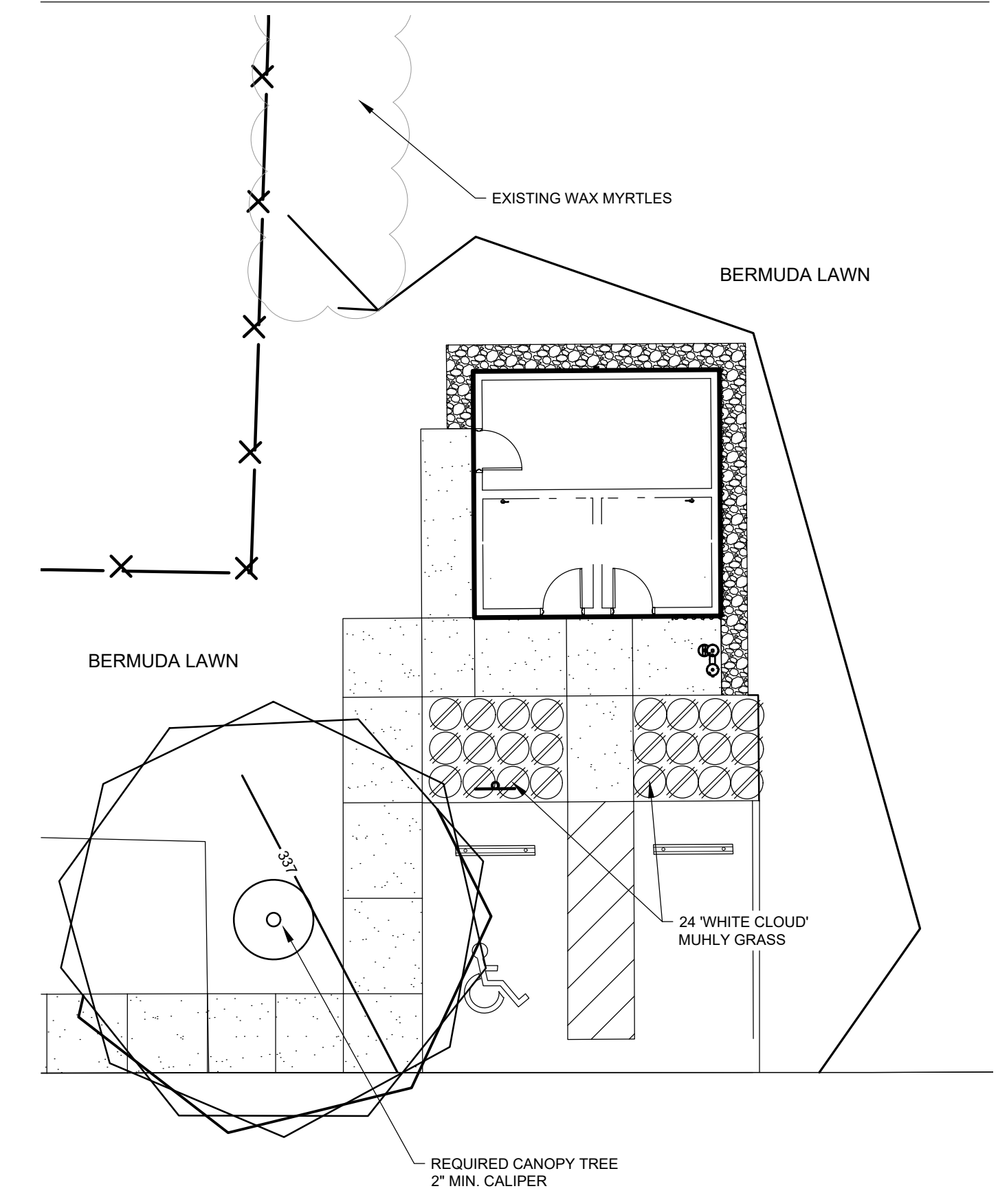
CODE	COUNT	COMMON_NAME	BOTANICAL_NAME	CALIPER	HEIGHT	SPREAD	SPACING	COMMENTS
MG	24	White Muhly Grass	Muhlenbergia capillaris 'White Cloud'	----	15-18"	12-15"	2.5' o.c.	----
OGM	1	'October Glory' Maple	Acer rubrum 'October Glory'	2.5-3"	12-14'	----	----	BB, Specimen, Fall Red Leaves

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DATED: MAY 9, 2024



LANDSCAPE PLAN



PROJECT:

Patriots Park
721 Ponderosa Rd, Cameron, NC 28326

CLIENT:
DEVON LEONARD
STITCH DESIGN SHOP
350 LIBERTY STREET
WINSTON-SALEM, NC 27101

DATE: 09/03/24
REVISIONS:

DRAWN: KMB, DJ, CC
JOB NO: 24-015

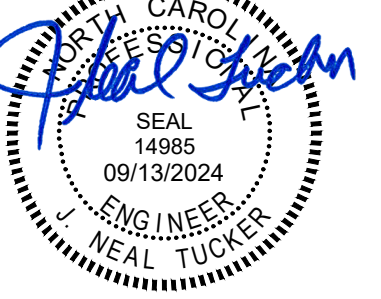
SHEET TITLE:
SITE, GRADING, & LANDSCAPE PLAN

SCALE: AS NOTED
SHEET NO.:

C-2.00
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SEALS:

NCBEE CERT. NO.: C-4347



PROJECT:

Patriots Park
 721 Ponderosa Rd, Cameron, NC 28326

CLIENT:

DEVON LEONARD
 STITCH DESIGN SHOP
 350 LIBERTY STREET
 WINSTON-SALEM, NC 27101

DATE: 09/03/24
 REVISIONS:

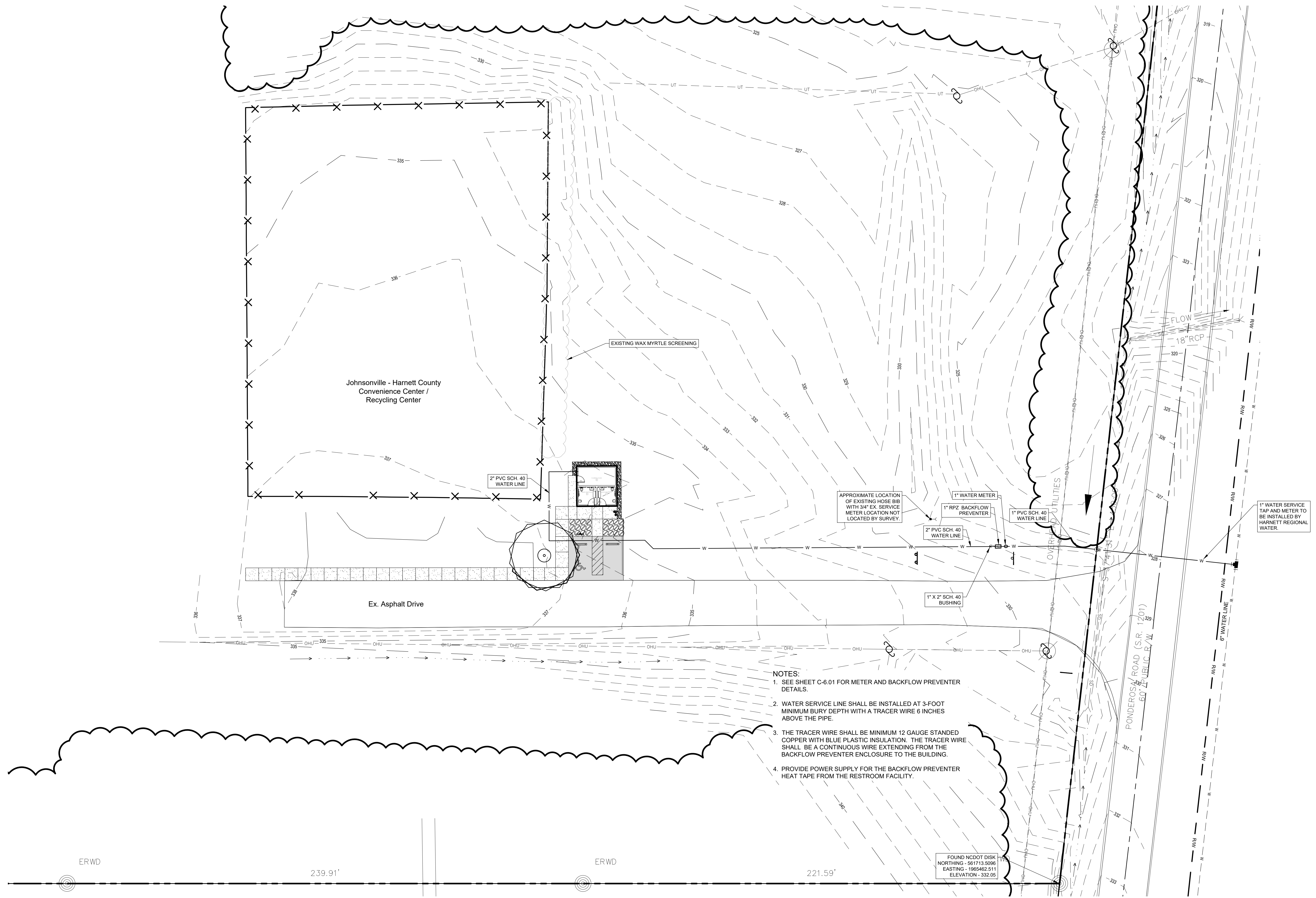
DRAWN: KMB, DJ, CC
 JOB NO: 24-015
 SHEET TITLE:

WATER PLAN

SCALE: AS NOTED
 SHEET NO.:

C-4.00

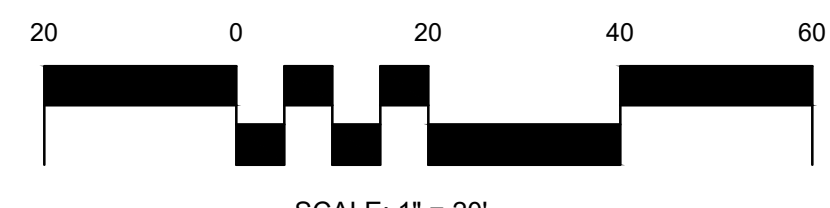
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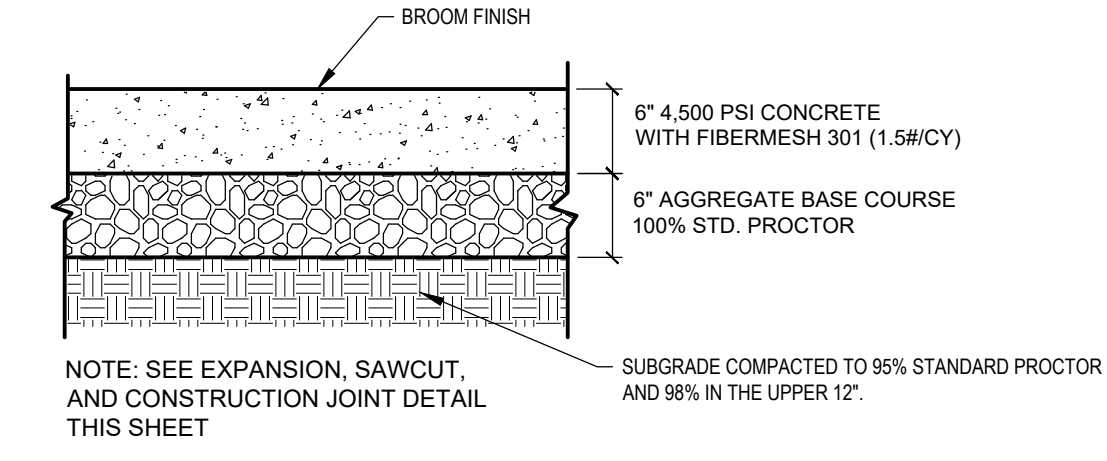
- NOTES:**
- SEE SHEET C-6.01 FOR METER AND BACKFLOW PREVENTER DETAILS.
 - WATER SERVICE LINE SHALL BE INSTALLED AT 3-FOOT MINIMUM BURY DEPTH WITH A TRACER WIRE 6 INCHES ABOVE THE PIPE.
 - THE TRACER WIRE SHALL BE MINIMUM 12 GAUGE STANDED COPPER WITH BLUE PLASTIC INSULATION. THE TRACER WIRE SHALL BE A CONTINUOUS WIRE EXTENDING FROM THE BACKFLOW PREVENTER ENCLOSURE TO THE BUILDING.
 - PROVIDE POWER SUPPLY FOR THE BACKFLOW PREVENTER HEAT TAPE FROM THE RESTROOM FACILITY.

FOUND NCDOT DISK
 NORTHING - 561713.5096
 EASTING - 1965462.511
 ELEVATION - 332.05

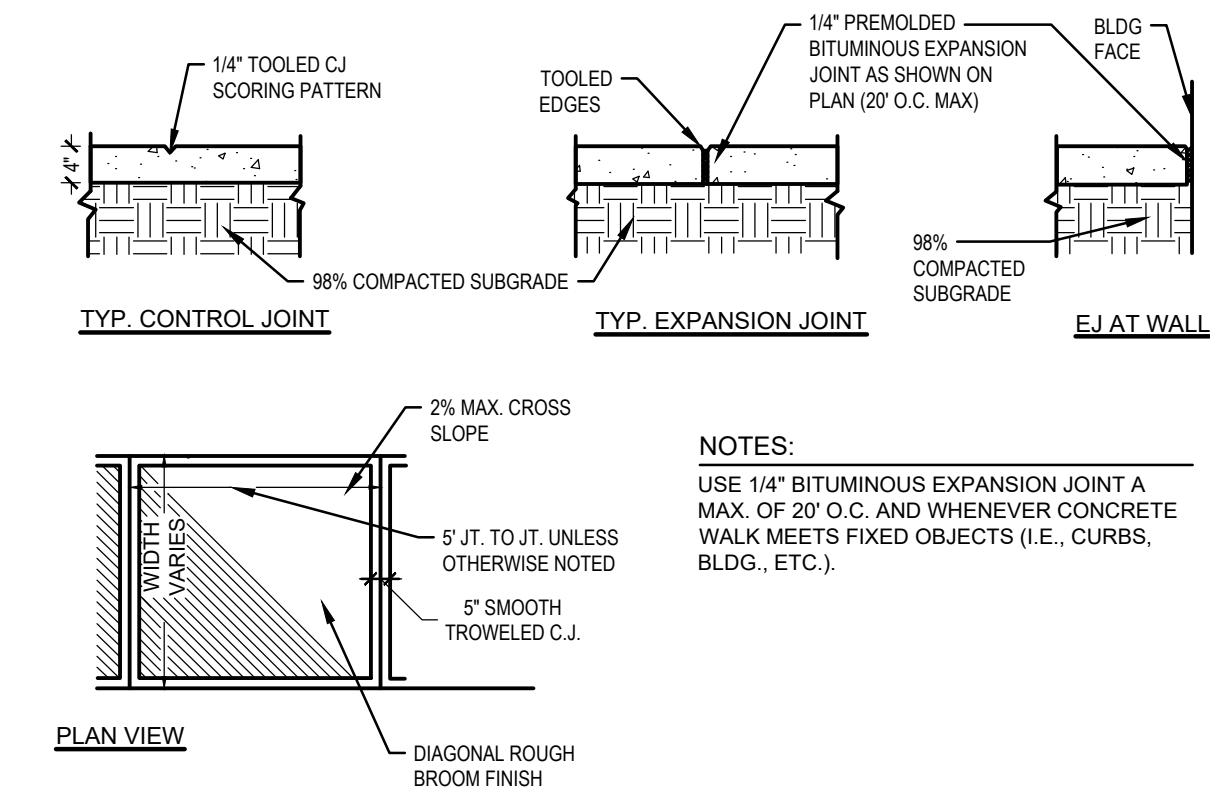
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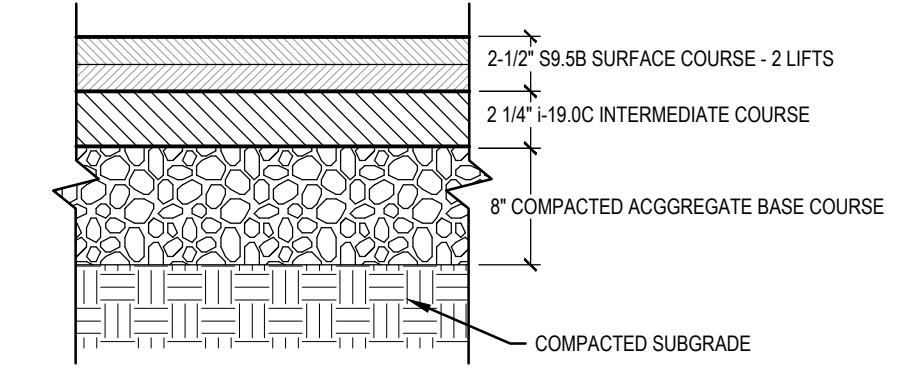
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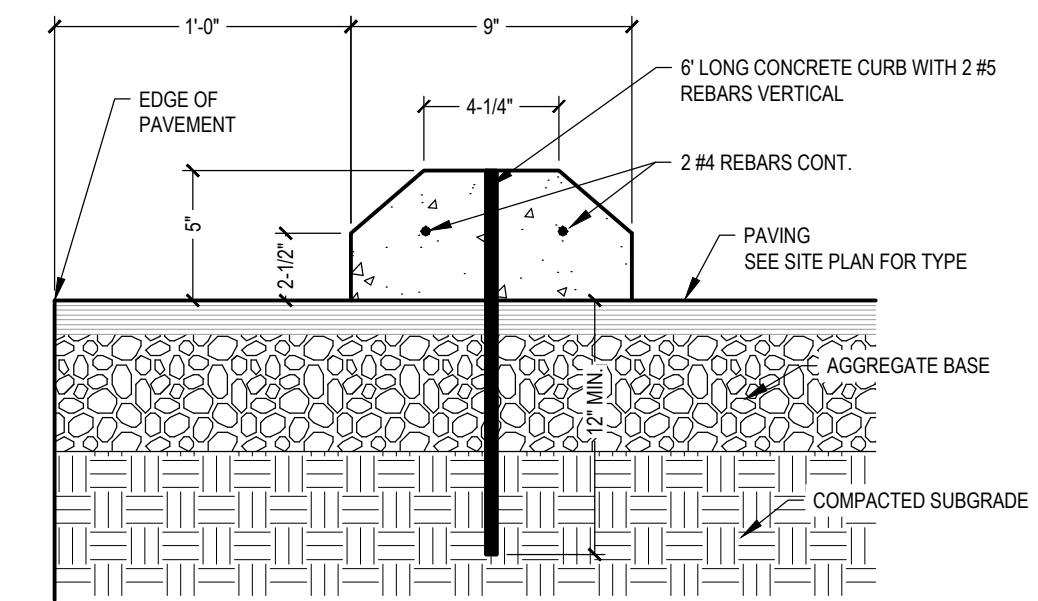
1 HEAVY DUTY CONCRETE
SCALE: NTS



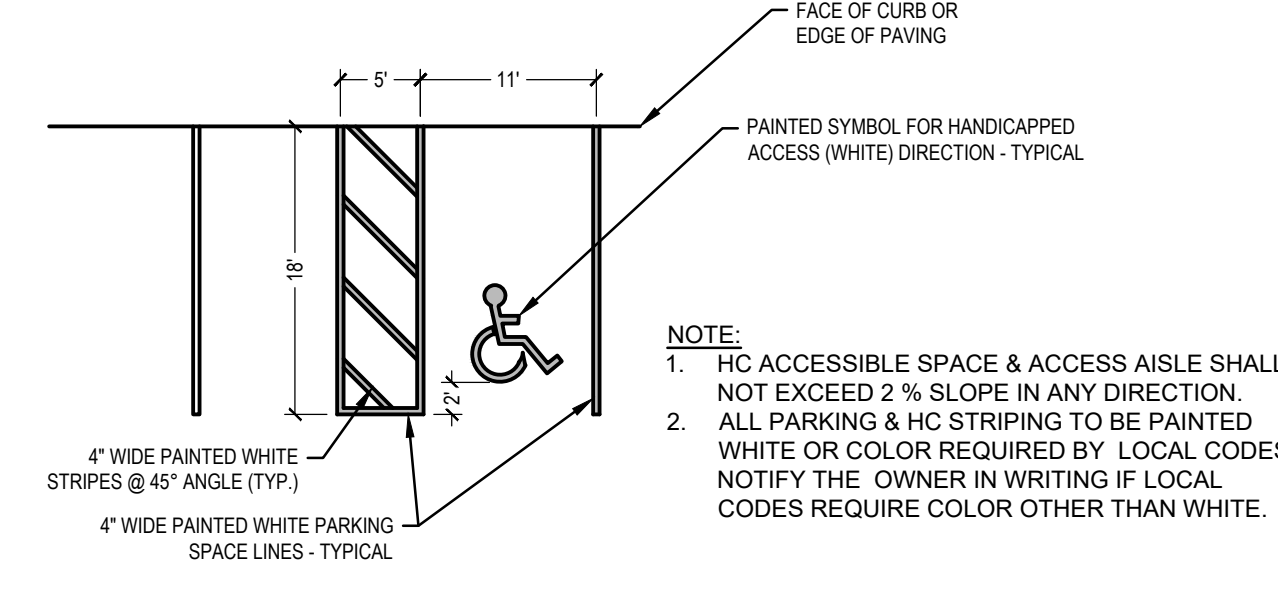
2 CONCRETE WALK
SCALE: NTS



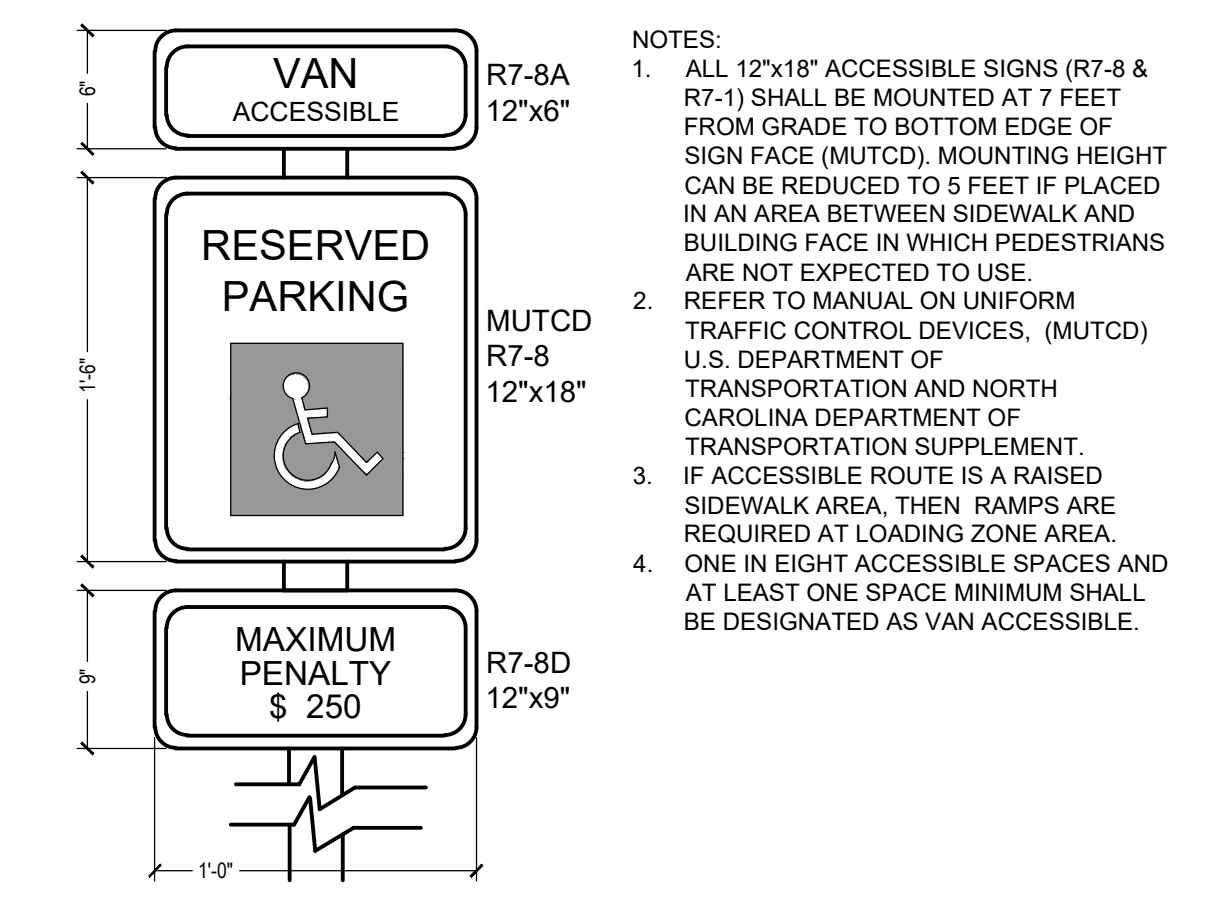
3 ASPHALT PAVEMENT
SCALE: NTS



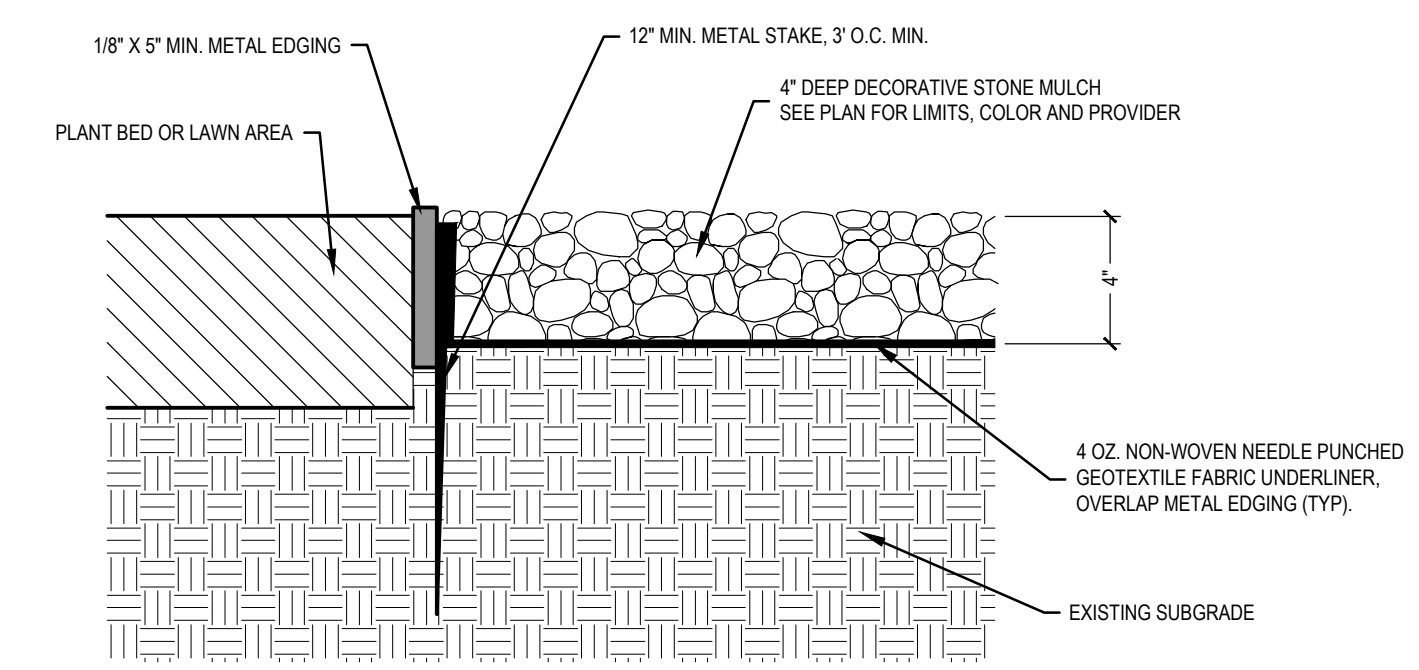
4 CONCRETE WHEEL STOP
SCALE: NTS



5 ACCESSIBLE PARKING SPACE
SCALE: NTS



6 ACCESSIBLE PARKING SIGNAGE
SCALE: NTS



7 STONE BORDER AND EDGING
SCALE: NTS

PROJECT:

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SHEET TITLE:

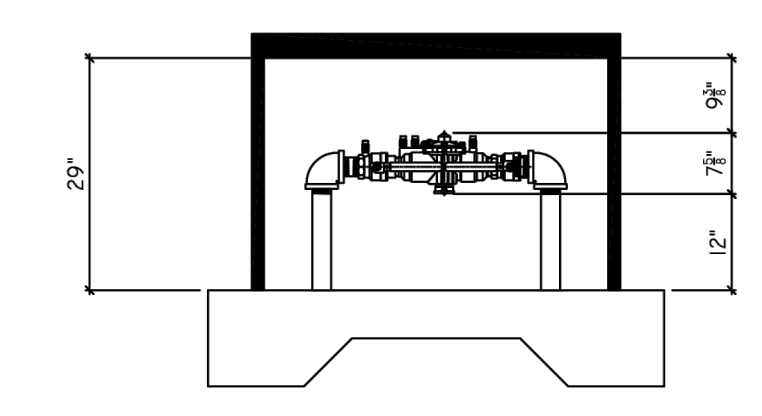
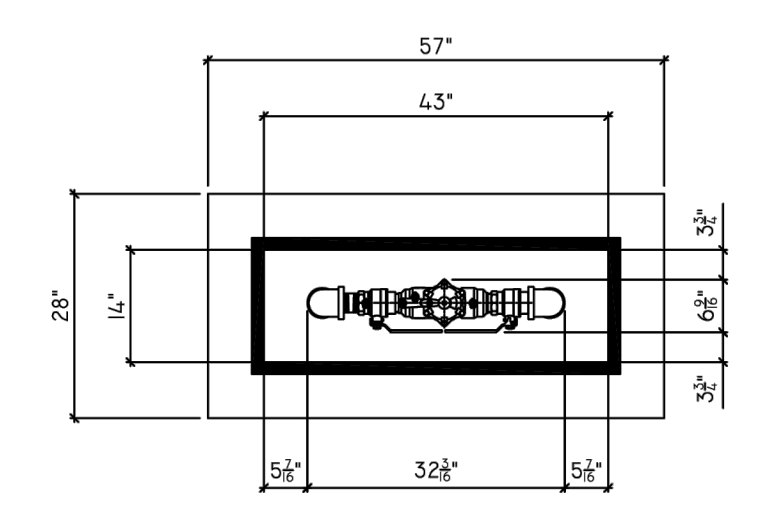
SITE DETAILS

SCALE: AS NOTED

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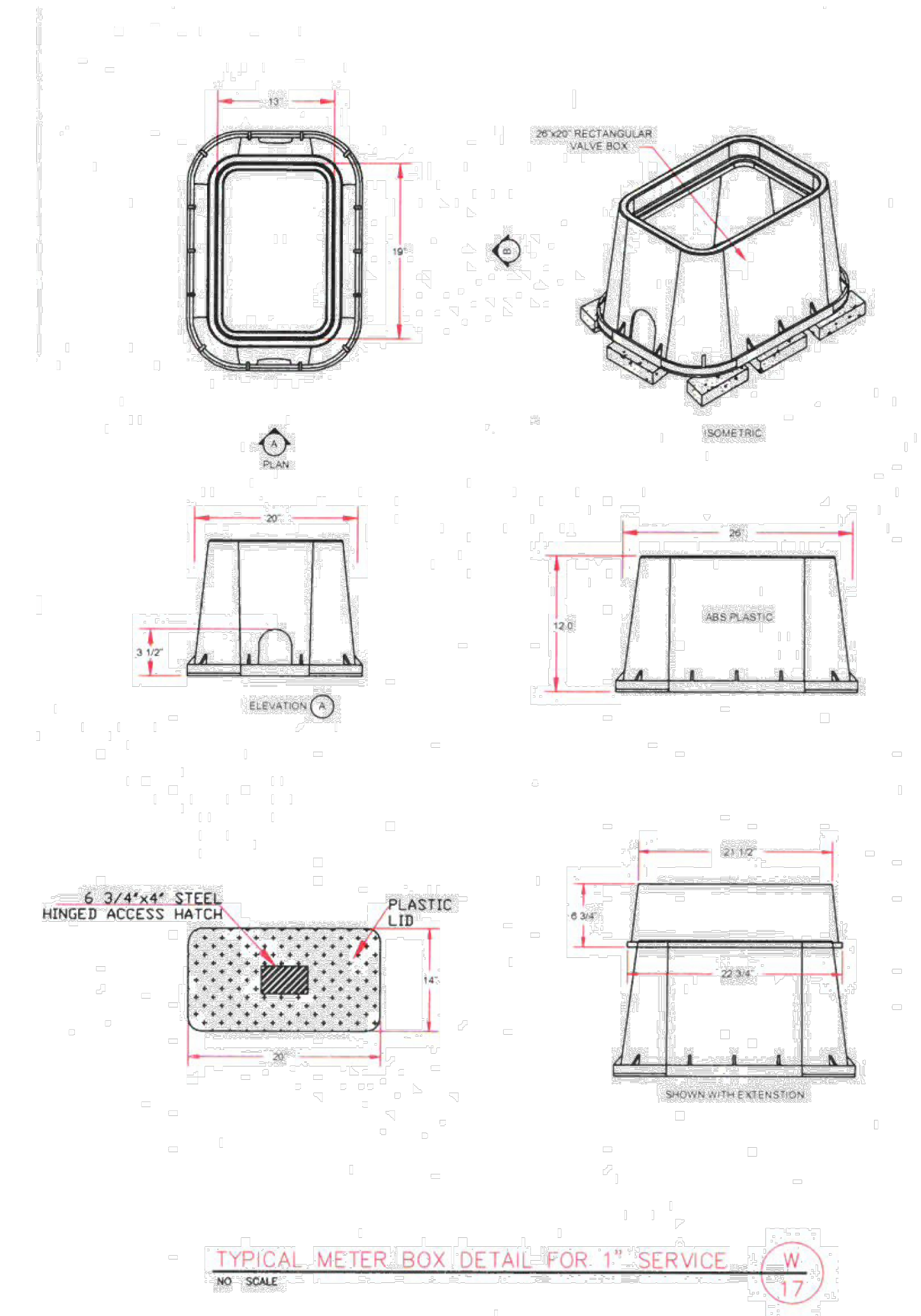
C-6.00

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ENCLOSURE MODEL: 200S-AL		www.safe-cover.com	
JOB: ----		SAFE COVER	
DRAWN BY: MLM	SCALE: NONE	DATE: 6/25/10	2710 LANDERS AVE NORFOLK, VA 23212 PH: (800) 642-6333
ELEVATION VIEW		24M4.000B-QT12.DWG SHEET 1 OF 1	
		6. MODEL 200S-AL ENCLOSURE 7. ENCLOSURE INSIDE DIMENSIONS: 8. CONCRETE PAD IS 28"W X 57"L 9. RFP 2" ANES 4000B - QT	
PLAN VIEW		1. DRAWING NOT TO SCALE 2. RFP DIMENSIONS FURNISHED BY 3. ALL DIMENSIONS ARE IN INCHES. 4. WALL AND INSULATION THICKNESS IS 1-1/2". 5. ROOF AND INSULATION THICKNESS IS 1-1/2".	
		CONFIDENTIAL: THIS DRAWING IS INTENDED FOR USE ONLY BY THOSE AUTHORIZED TO RECEIVE IT. DISSEMINATION, DISTRIBUTION OR COPY OF THIS INFORMATION IS STRICTLY PROHIBITED. US PATENT 5,609,784	

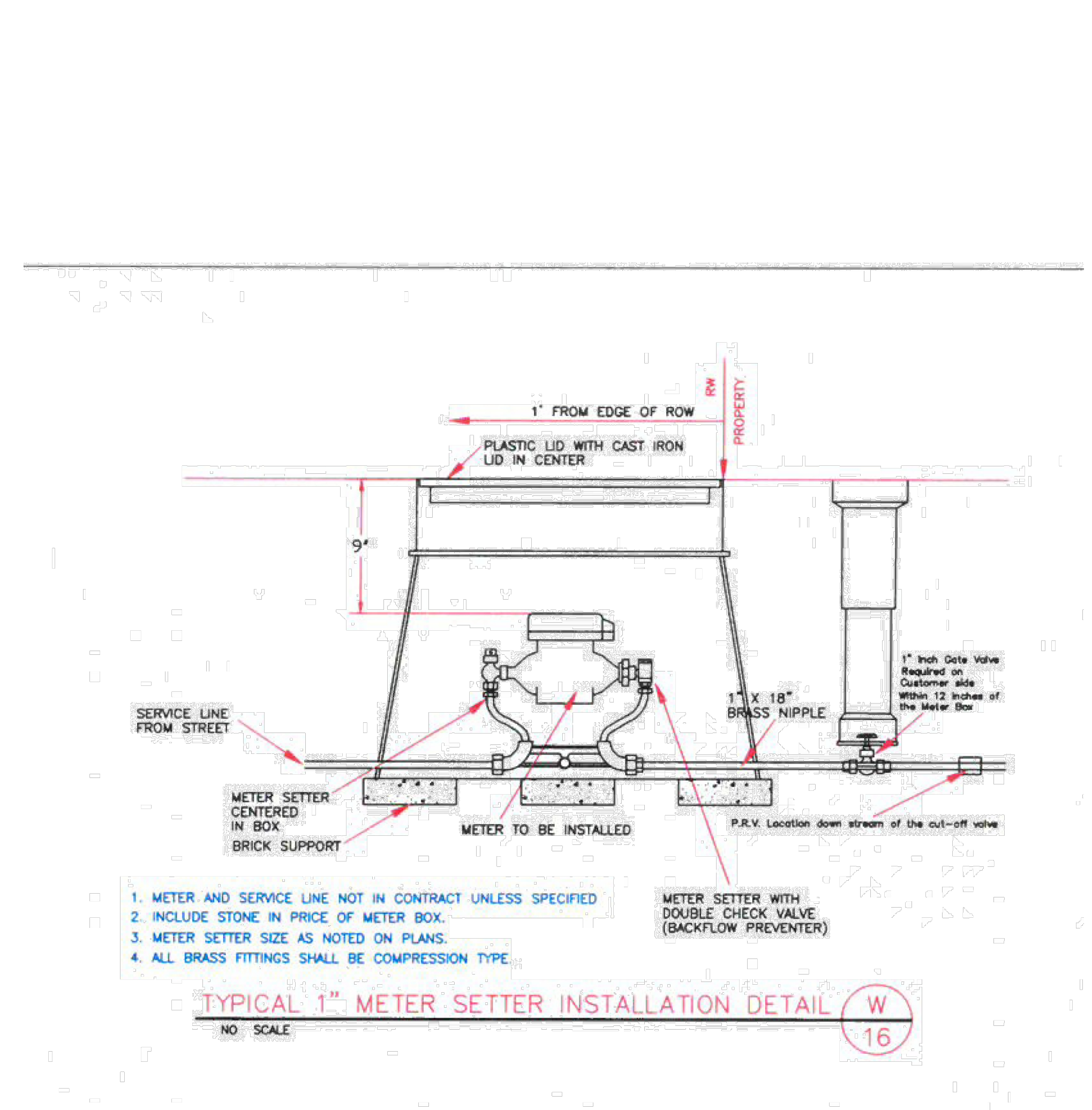
3 2" RPA BACKFLOW PREVENTER
 SCALE: NTS

- NOTE:
- BACKFLOW PREVENTER SHALL BE A 1-INCH DEVICE IN ACCORDANCE WITH HARNETT REGIONAL WATER STANDARDS AND SPECIFICATIONS. THIS DETAIL IS PROVIDED TO REPRESENT THE GENERAL REQUIREMENTS FOR THE BACKFLOW PREVENTER, ENCLOSURE AND CONCRETE PAD. THE ENCLOSURE SIZE SHALL BE AS SHOWN IN THIS DETAIL.
 - BACKFLOW PREVENTER SHALL BE WRAPPED WITH HEAT TAPE TO PREVENT FREEZING.



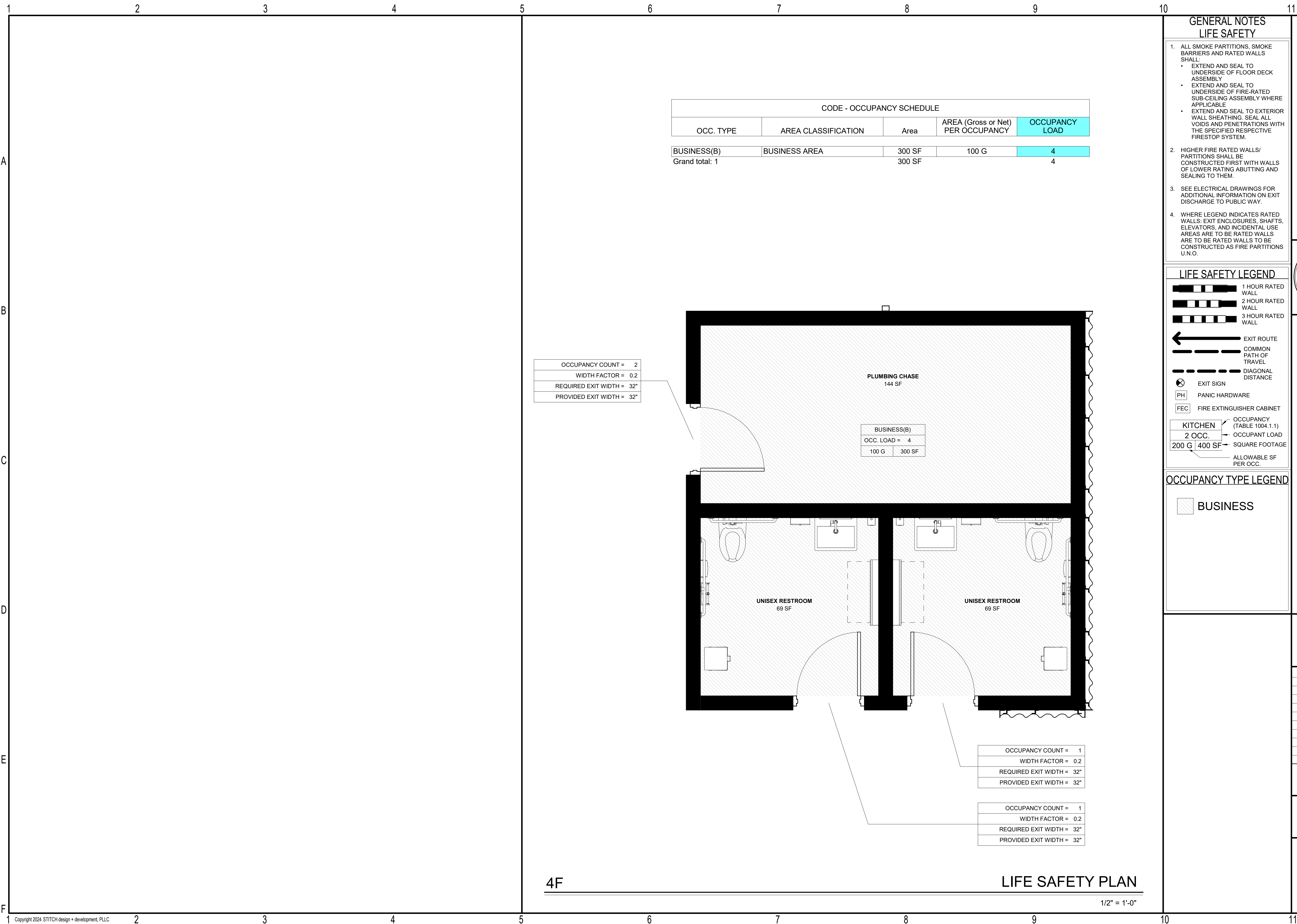
28"X20" RECTANGULAR VALVE BOX
 SCOMETRIC
 PLAN
 ELEVATION A
 ELEVATION B
 ABS PLASTIC
 3 1/2"
 20"
 12.6"
 28"
 28.12"
 22.34"
 9.34"
 SHOWN WITH EXTENSION
 3/4" X 4" STEEL HINGED ACCESS HATCH
 PLASTIC LID
 14"
 20"

2 1" WATER METER BOX
 SCALE: NTS



1" FROM EDGE OF ROW
 PROPERTY
 PLASTIC LID WITH CAST IRON LID IN CENTER
 9"
 SERVICE LINE FROM STREET
 METER SETTER CENTERED IN BOX
 BRICK SUPPORT
 METER TO BE INSTALLED
 1" X 18" BRASS NIPPLE
 1" Inch Gate Valve Required on Customer side Within 12 inches of the Meter Box
 P.R.V. Location down stream of the cut-off valve
 1. METER AND SERVICE LINE NOT IN CONTRACT UNLESS SPECIFIED
 2. INCLUDE STONE IN PRICE OF METER BOX.
 3. METER SETTER SIZE AS NOTED ON PLANS.
 4. ALL BRASS FITTINGS SHALL BE COMPRESSION TYPE.
 METER SETTER WITH DOUBLE CHECK VALVE (BACKFLOW PREVENTER)
 TYPICAL 1" METER SETTER INSTALLATION DETAIL
 NO SCALE
 W 16

1 1" WATER METER
 SCALE: NTS



CODE - OCCUPANCY SCHEDULE				
OCC. TYPE	AREA CLASSIFICATION	Area	AREA (Gross or Net) PER OCCUPANCY	OCCUPANCY LOAD
BUSINESS(B)	BUSINESS AREA	300 SF	100 G	4
Grand total: 1		300 SF		4

OCCUPANCY COUNT = 2
 WIDTH FACTOR = 0.2
 REQUIRED EXIT WIDTH = 32"
 PROVIDED EXIT WIDTH = 32"

BUSINESS(B)
 OCC. LOAD = 4
 100 G 300 SF

OCCUPANCY COUNT = 1
 WIDTH FACTOR = 0.2
 REQUIRED EXIT WIDTH = 32"
 PROVIDED EXIT WIDTH = 32"

OCCUPANCY COUNT = 1
 WIDTH FACTOR = 0.2
 REQUIRED EXIT WIDTH = 32"
 PROVIDED EXIT WIDTH = 32"

4F

LIFE SAFETY PLAN

1/2" = 1'-0"

GENERAL NOTES
 LIFE SAFETY

- ALL SMOKE PARTITIONS, SMOKE BARRIERS AND RATED WALLS SHALL:
 - EXTEND AND SEAL TO UNDERSIDE OF FLOOR DECK ASSEMBLY
 - EXTEND AND SEAL TO UNDERSIDE OF FIRE-RATED SUB-CEILING ASSEMBLY WHERE APPLICABLE
 - EXTEND AND SEAL TO EXTERIOR WALL SHEATHING. SEAL ALL VOIDS AND PENETRATIONS WITH THE SPECIFIED RESPECTIVE FIRESTOP SYSTEM.
- HIGHER FIRE RATED WALLS/ PARTITIONS SHALL BE CONSTRUCTED FIRST WITH WALLS OF LOWER RATING ABUTTING AND SEALING TO THEM.
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON EXIT DISCHARGE TO PUBLIC WAY.
- WHERE LEGEND INDICATES RATED WALLS; EXIT ENCLOSURES, SHAFTS, ELEVATORS, AND INCIDENTAL USE AREAS ARE TO BE RATED WALLS ARE TO BE RATED WALLS TO BE CONSTRUCTED AS FIRE PARTITIONS U.N.O.

LIFE SAFETY LEGEND

- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- 3 HOUR RATED WALL
- EXIT ROUTE
- COMMON PATH OF TRAVEL
- DIAGONAL DISTANCE
- EXIT SIGN
- PH PANIC HARDWARE
- FEC FIRE EXTINGUISHER CABINET
- KITCHEN OCCUPANCY (TABLE 1004.1.1) 2 OCC.
- 200 G 400 SF OCCUPANT LOAD
- SQUARE FOOTAGE
- ALLOWABLE SF PER OCC.

OCCUPANCY TYPE LEGEND

BUSINESS



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CONSTRUCTION DOCUMENTS

Revisions		
No.	Description	Date

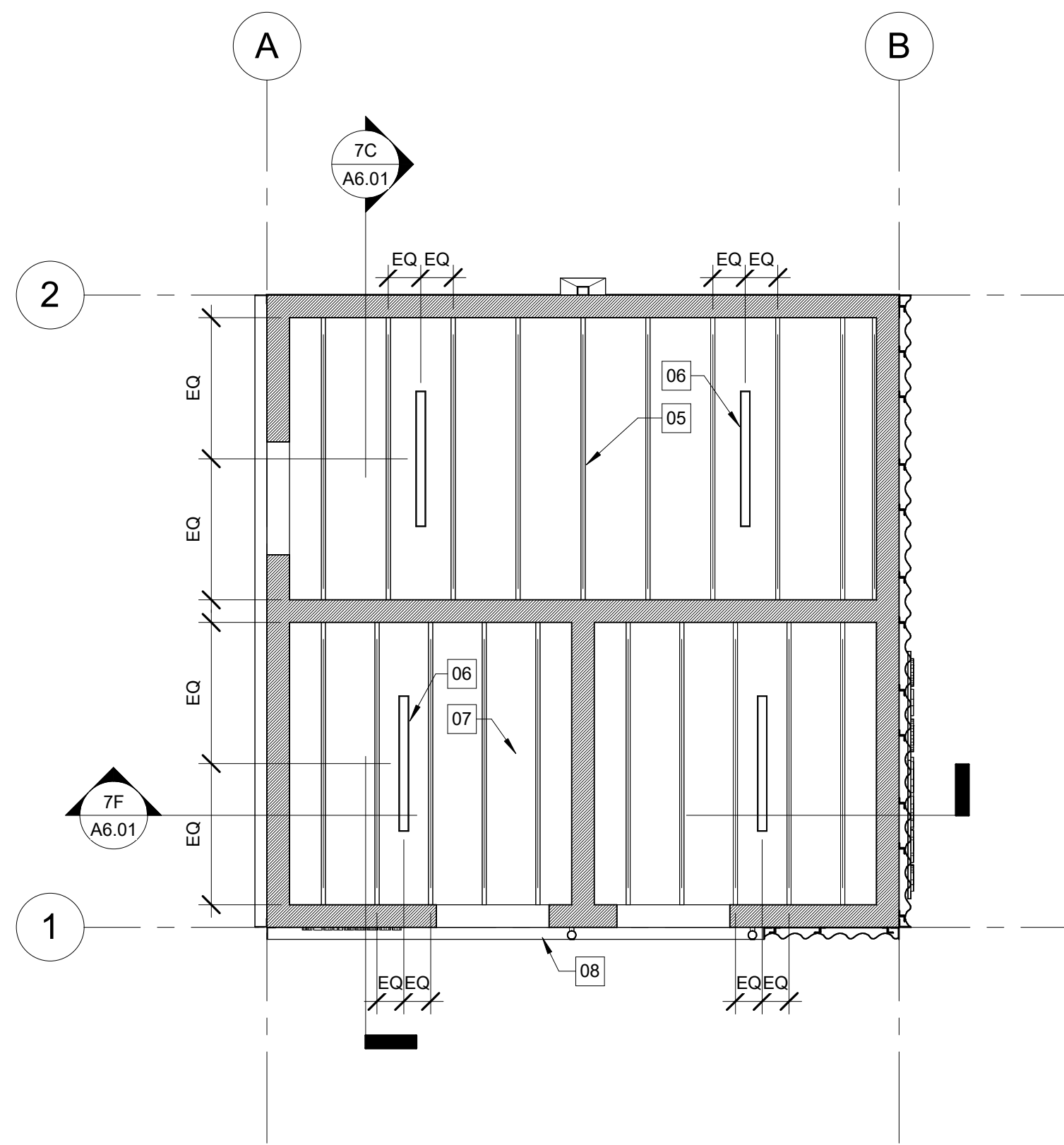
date: 08/23/2024
 commission: 24-140

sheet title:
 LIFE SAFETY PLAN

sheet no.:
 A1.02

FINISH - FINISH LEGEND					
SYMBOL	PRODUCT	MANUFACTURER BOD	PRODUCT # / STYLE BOD	COLOR	NOTES
PAINT					
PNT01	PAINT	SHERWIN WILLIAMS	LOW VOC LATEX	DORIAN GRAY SW 7017	EXTERIOR CMU
PNT02	PAINT	SHERWIN WILLIAMS	LOW VOC LATEX	GAUNTLET GRAY SW 7019	STEEL ANGLES, DOORS, MISC EXTERIOR
PNT03	PAINT	SHERWIN WILLIAMS	LOW VOC LATEX	REPOSE GRAY SW 7015	INTERIOR CMU
PNT04	PAINT	SHERWIN WILLIAMS	LOW VOC LATEX	LEISURE BLUE SW 6515	CEILING FRAMING
SEALED CONCRETE					
SCONC	SEALED CONCRETE				
WOOD STAIN					
WDS	WOOD STAIN	SHERWIN WILLIAMS	POLYURETHANE STAIN	SEMI-TRANSPARENT	EXPOSED WOOD

ROOM SCHEDULE						
Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
01	UNISEX RESTROOM	SCONC	(NONE)	PNT03	PNT04	
02	UNISEX RESTROOM	SCONC	(NONE)	PNT03	PNT04	
03	PLUMBING CHASE	SCONC	(NONE)	PNT03	PNT04	



5C REFLECTED CEILING PLAN 1/4" = 1'-0"

- ### KEYNOTES
- 01 PROVIDE SEALED CONCRETE FLOOR FINISH IN RESTROOMS AND UTILITY ROOM
 - 02 AREA DRAIN PER PLUMBING DRAWINGS
 - 03 SLOPE CONCRETE FLOOR TO AREA DRAIN PER PLUMBING DRAWINGS
 - 04 PREFABRICATED METAL ROOF SCUPPER AND LEADER. SEE ELEVATIONS FOR FINISH
 - 05 EXPOSED ROOF FRAMING PER STRUCTURAL
 - 06 EXTERIOR RATED LED LIGHT FIXTURE PER ELECTRICAL DWGS. PAINT CONDUIT TO MATCH CEILING
 - 07 UNDERSIDE OF ROOF DECK
 - 08 STEEL ANGLE TRIM, GALVANIZE AND PAINTED PNT02
 - 09 FULLY ADHERED 60 MIL. TPO ROOF ON TAPERED INSULATION. WHITE COLOR PER MFG STANDARD OFFERING
 - 10 ROOF CRICKET TO SCUPPER/ DOWNSPOUT AS REQUIRED
 - 11 EXTERIOR HOSE BIBB. SEE PLUMBING DRAWINGS

- ### GENERAL NOTES - PLAN
1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH 2018 NCSBC AND ANY LOCAL CODES. CLEARANCES AND ACCESSIBILITY SHALL COMPLY WITH ANSI A117.1.
 2. ALL PLAN DIMENSIONS ARE TO FACE OF STUD/STRUCTURE & COLUMN CENTER LINE UNLESS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF STUD/STRUCTURE & COLUMN CENTERLINE UNLESS NOTED OTHERWISE.
 3. PLANS MAY BE ROTATED FOR CLARITY. REFER TO NORTH ARROWS FOR ACTUAL ORIENTATION.
 4. REFER TO CIVIL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND UTILITY PADS FOR EQUIPMENT, WALKWAYS, ETC.
 5. DISTANCE FROM BACK OF HINGE SIDE FRAME TO WALL SHALL BE 4" CLEAR, U.N.O. FOR INTERIOR HOLLOW METAL FRAMES. DIMENSION ON PULL SIDE OF DOOR TO WALL SHALL BE 18".
 6. PROVIDE FIRE RETARDANT TREATED PLYWOOD BACKING AT ELECTRICAL PANELS. PROVIDE WOOD BLOCKING AS REQUIRED AT MILLWORK AND OTHER WALL MOUNTED ACCESSORIES TYPICAL.
 7. COORDINATE WITH STRUCTURAL AND CIVIL DOCUMENTS FOR SLOPING SLABS, PEAKS AND VALLEYS.
 8. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS AND HOSE BIBBS.
 9. REV: CIVIL / LANDSCAPE DRAWINGS FOR REQUIREMENTS. CONCRETE SLAB OUTSIDE OF BUILDING FOOTPRINT.

- ### GENERAL NOTES - FINISH PLAN
1. CONTRACTOR SHALL PROVIDE ALL INTERIOR FINISHES AS SPECIFIED. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR OMISSIONS PRIOR TO PROCEEDING WITH WORK.
 2. ALL INTERIOR FINISHES SHALL HAVE A CLASS A FLAME SPREAD RATING OR BETTER.
 3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF THEIR MEASUREMENTS AND TOTAL YARDAGE REQUIREMENTS TO BE FURNISHED.
 4. VARIATIONS IN FLOOR LEVEL IN EXCESS OF 1 INCH FOR EVERY 10 FEET SHALL BE LEVELED BY CONTRACTOR. LEVELING SHALL BE COMPLETED WITH FLOOR READY TO RECEIVE NEW FINISHES AS SPECIFIED. CONTRACTOR SHALL VERIFY SLAB CONDITION PRIOR TO PRICE SUBMISSION.
 5. ALL MISC. GRILLES, PLATES, OR OTHER DEVICES SHALL BE PAINTED TO MATCH THE WALL OR CEILING IN WHICH THEY ARE INSTALLED.
 6. ALL NEW AND EXISTING FINISHES SCHEDULED TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED BY CONTRACTOR INVOLVED AT HIS COST WITH NO COST TO OWNER.
 7. PROVIDE ATTIC STOCK AS FOLLOWS:
PAINT
ONE GALLON OF EACH COLOR AND FINISH
 8. CONTRACTOR TO PROVIDE STITCH DESIGN SHOP WITH FINISH SUBMITALLS PRIOR TO ORDERING OR INSTALLING ANY FINISHES
 9. GC TO PROVIDE SEAMING DIAGRAM / SHOP DRAWINGS PRIOR TO INSTALLATION FOR ARCHITECT TO REVIEW.

- ### RCP GENERAL NOTES
1. ALL WORK SHALL BE IN ACCORDANCE WITH 2018 NCSBC AND ANY LOCAL CODES.
 2. REFER TO ELECTRICAL DRAWINGS FOR OTHER CEILING MOUNTED DEVICES, LIGHTS, AND EXIT SIGNS.
 3. ALL EXPOSED CEILING LOCATIONS TO BE PAINTED, TO INCLUDE BUT NOT LIMITED TO: STRUCTURAL BEAMS, METAL DECK, DUCTWORK, VAV BOXES, DIFFUSERS, SPRINKLER PIPES, CONDUIT AND ALL OTHER EXPOSED SYSTEMS. COLOR TO BE APPROVED BY ARCHITECT

- ### GENERAL ROOF NOTES
1. PENETRATION DETAILS SHOWN ARE TO BE APPROVED BY ROOFING MANUFACTURER.
 2. ROOFING DETAILS TO COMPLY WITH THE LATEST EDITION OF SMACNA & NRCA MANUAL.
 3. ALL COPING TO BE FASTENED PER ANSI SPRI ES-1 STANDARDS.
 4. WIND UPLIFT RATINGS TO BE VERIFIED WITH STRUCTURAL DESIGN CRITERIA, BUILDING HEIGHTS, PARAPET CONDITIONS, ETC. SEE STRUCTURAL DESIGN CRITERIA.
 5. COORDINATE DOWNSPOUT SIZE AND LOCATION WITH CIVIL.
 6. MAINTAIN POSITIVE DRAINAGE ON ALL ROOF SURFACES, MINIMUM SLOPE OF 1/4" PER 1'-0".



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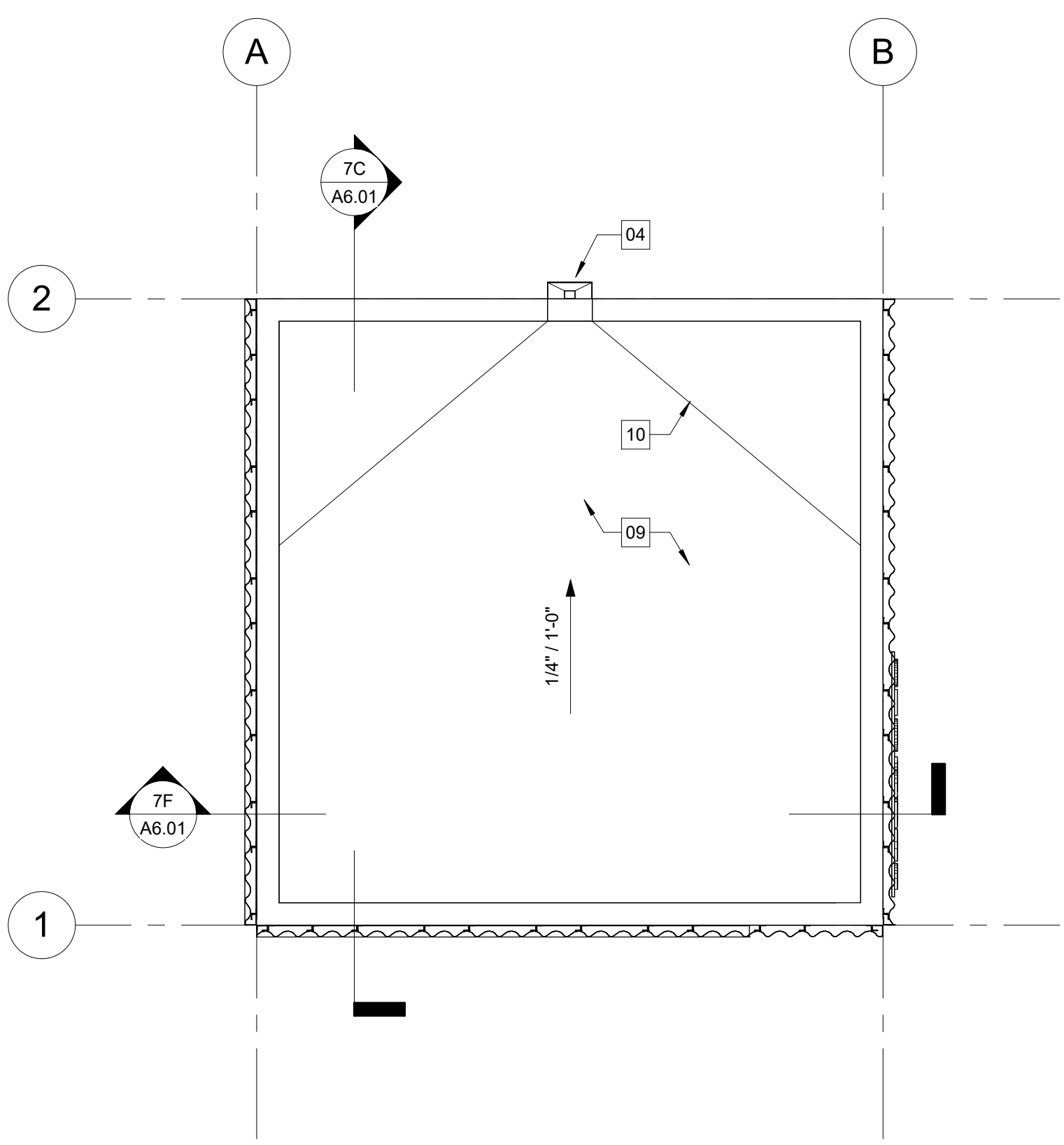
CONSTRUCTION DOCUMENTS

Revisions		
No.	Description	Date

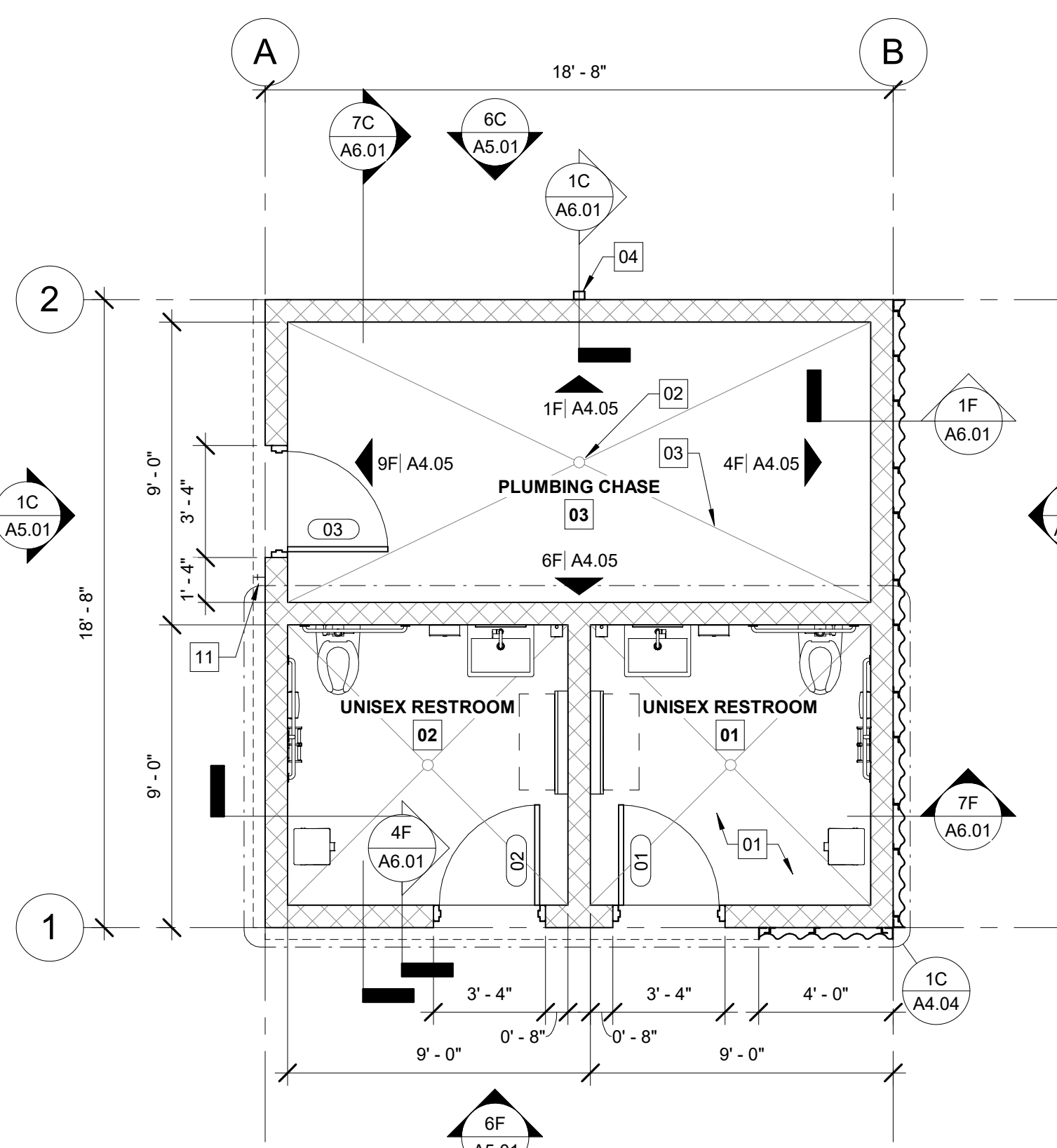
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commission: 24-140

sheet title:
FLOOR PLAN, ROOF PLAN, RCP

sheet no.:
A2.01

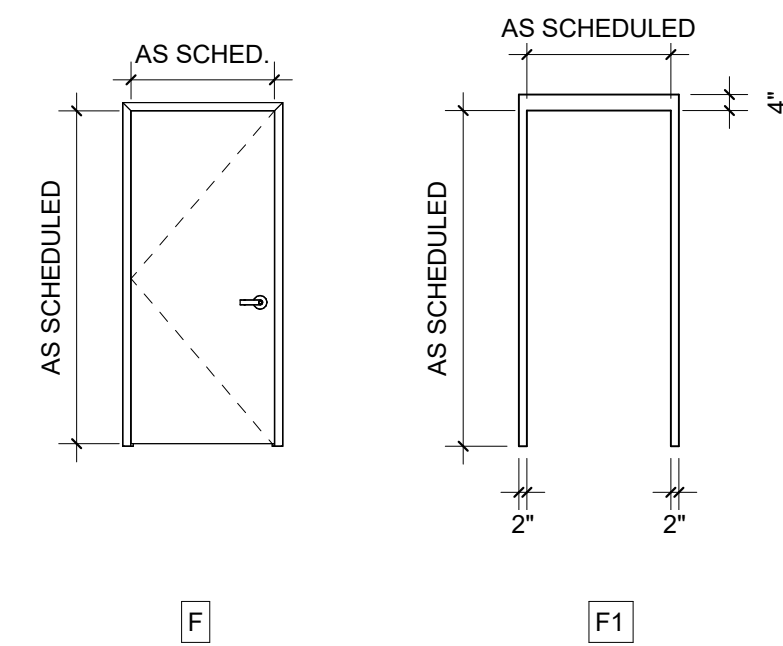


1F ROOF PLAN 1/4" = 1'-0"



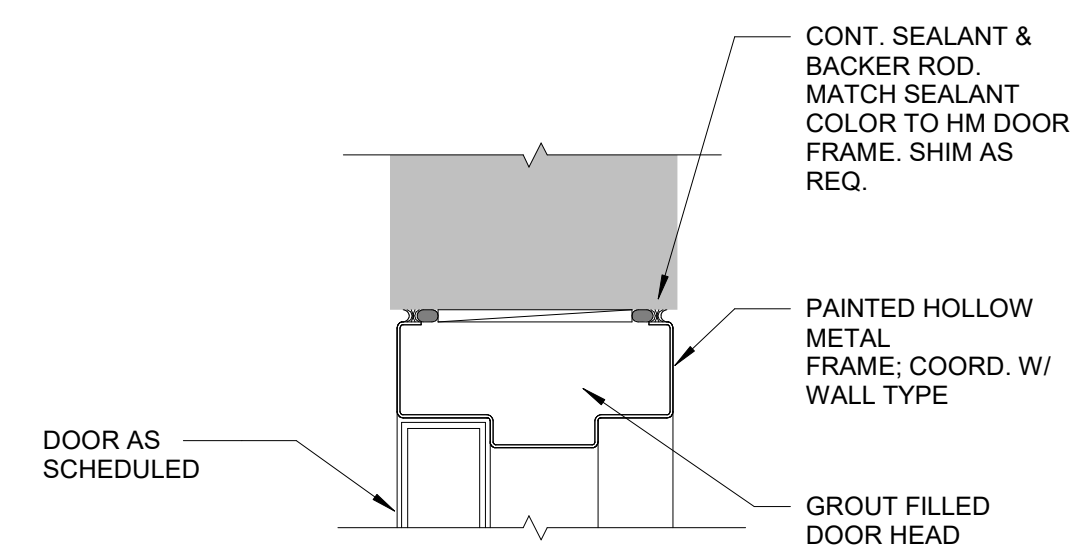
5F FLOOR PLAN 1/4" = 1'-0"

DOOR & FRAME SCHEDULE												
NUMBER	DOOR			FRAME								REMARKS
	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	HEAD	JAMB	SILL	HARDWARE	
FLOOR PLAN												
01	3'-0"	7'-0"	0'-1 3/4"	F	HM	F-1	HM	7D/A3.01	7D/A3.01	7F/A3.01	PRIVACY LOCKSET	
02	3'-0"	7'-0"	0'-1 3/4"	F	HM	F-1	HM	7D/A3.01	7D/A3.01	7F/A3.01	PRIVACY LOCKSET	
03	3'-0"	7'-0"	0'-1 3/4"	F	HM	F-1	HM	7D/A3.01	7D/A3.01	7F/A3.01	STOREROOM LOCKSET	FLOOR MOUNTED DOOR STOP



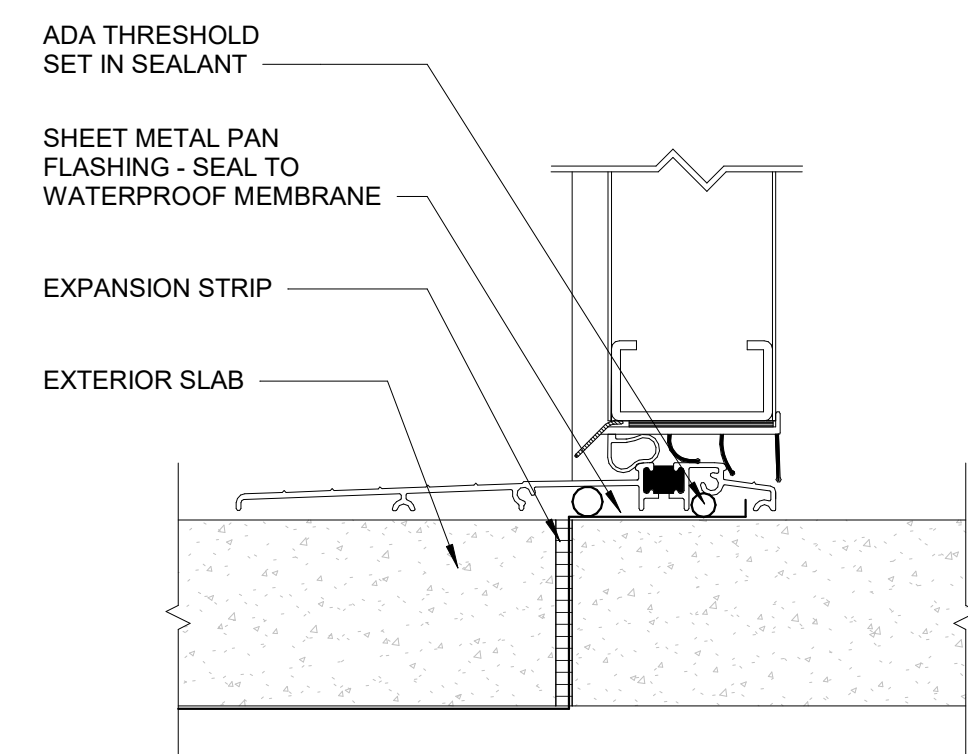
7B DOOR & FRAME TYPES

1/4" = 1'-0"



7D TYP. 4" HM DOOR HEAD

3" = 1'-0"



7F ADA EXTERIOR SILL DETAIL

3" = 1'-0"

DOOR & TRIM NOTES

TRIM GENERAL NOTES

1. DOOR FRAMES & TRIM THAT TOUCH WOOD BASE ARE TO MATCH PAINTED WOOD BASE FINISH

DOOR GENERAL NOTES

- ALL EXTERIOR HOLLOW METAL DOORS & FRAMES TO BE GALVANIZED
- ALL EXTERIOR HOLLOW METAL DOORS TO BE INSULATED (R-3 MINIMUM)
- INTERIOR DOOR FRAMES TO BE PAINTED TO MATCH TRIM COLOR OR EXPOSED STRUCTURE COLOR IF NO TRIM COLOR IS PROVIDED.
- REFER TO SPECIFICATIONS FOR DOOR HARDWARE
- COORDINATE FRAME SIZE WITH DETAILS, WALL TYPES & FINISHES

DOOR ABBREVIATIONS

HM HOLLOW METAL
WD WOOD
ACW ALUMINUM CLAD WOOD
AL ALUMINUM



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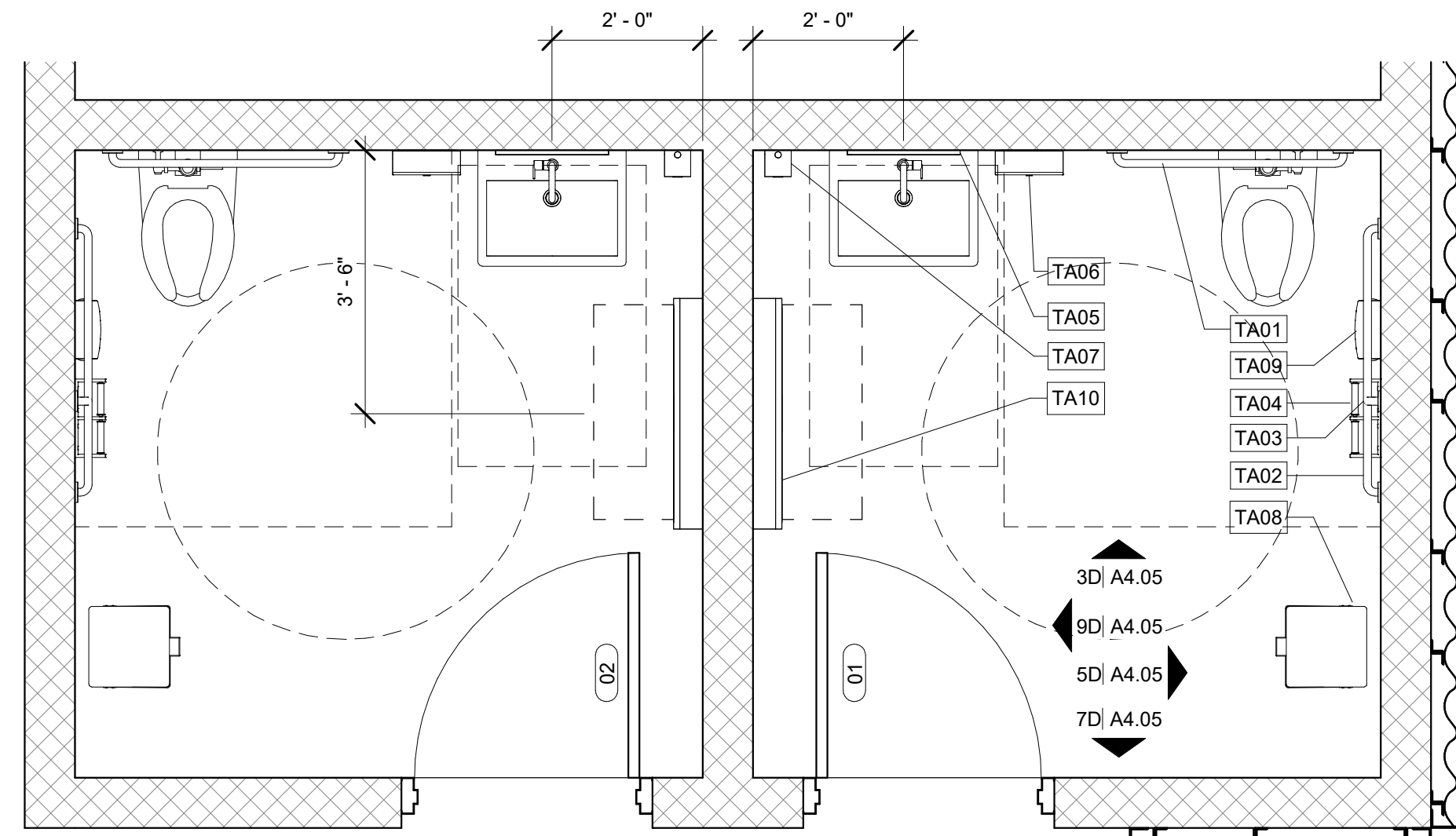
CONSTRUCTION DOCUMENTS

Revisions		
No.	Description	Date

date: 08/23/2024
commission: 24-140

sheet title:
DOOR SCHEDULE & DETAILS

sheet no.:
A3.01



1C

ENLARGED RESTROOM PLAN

1/2" = 1'-0"

6B

ADA CLEARANCES

1/4" = 1'-0"

TOILET ACCESSORY LEGEND

KEY	DESCRIPTION
TA1	36" SS GRAB BAR
TA2	42" SS GRAB BAR
TA3	18" VERTICAL SS GRAB BAR
TA4	SS TOILET PAPER DISPENSER
TA5	SS CHANNEL FRAME MIRROR
TA6	PAPER TOWEL DISPENSER
TA7	LIQUID SOAP DISPENSER
TA8	WASTE RECEPTACLE (BY OWNER)
TA9	SS FEMININE NAPKIN DISPOSAL
TA10	SS WALL MOUNTED DIAPER CHANGING STATION

TOILET ACCESSORY NOTES

- NOTE 1:**
PROVIDE/INSTALL BLOCKING FOR GRAB BAR SUPPORT - TYPICAL. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 LBS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER MOUNTING DEVICE OR SUPPORTING STRUCTURE
- NOTE 2:**
PROVIDE BLOCKING WITHIN WALL FOR SUPPORT OF TOILET / URINAL PARTITIONS AS REQUIRED
- NOTE 3:**
TOILET STALL DOORS TO BE SELF CLOSING AT ADA ACCESSIBLE STALLS
- NOTE 4:**
INSTALL 3/4" FRT PLYWOOD BACKING (24" X 48" W. MIN.) IN WALLS FOR BABY CHANGING STATION SUPPORT
- NOTE 5:**
MANUF. BOBRICK & TOTO ACCESSORIES TO BE "BASIS OF DESIGN" U.N.O.

GENERAL NOTES - PLAN

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- REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS AND HOSE BIBBS.
- REFER TO LANDSCAPE DRAWINGS FOR REQUIREMENTS. CONCRETE SLAB OUTSIDE OF BUILDING FOOTPRINT.



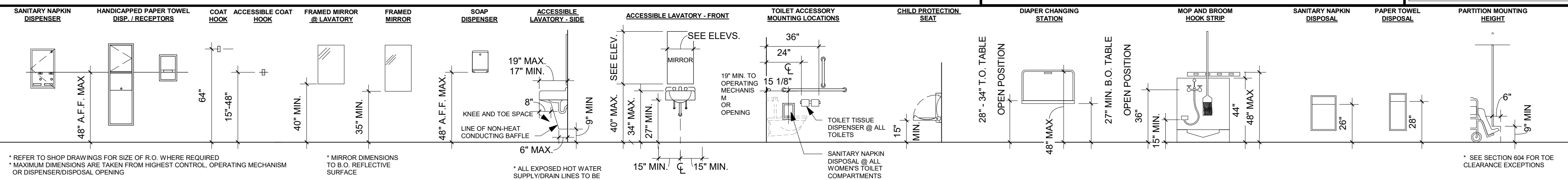
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NOTES - MOUNTING HEIGHTS:

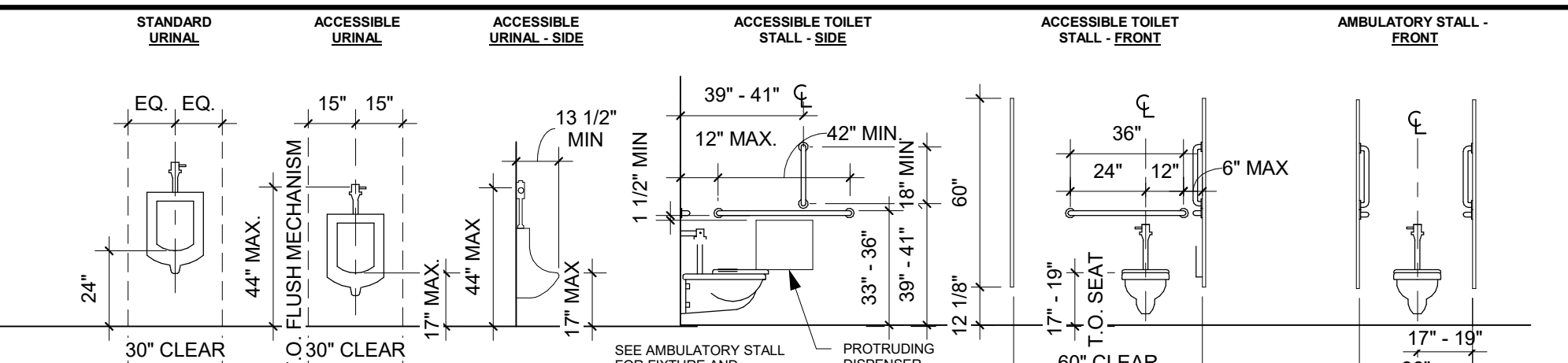
- PURPOSE OF DETAILS IS TO SHOW MOUNTING HEIGHTS OF TYPICAL ITEMS, NOT PROXIMITY OR LOCATION
- REFER TO SHOP DRAWINGS FOR SIZE OF R.O. WHERE PROVIDED
- TECHNICAL CRITERIA PROVIDED ON THIS SHEET MEETS THE NORTH CAROLINA BUILDING CODE - ANSI ACCESSIBILITY STANDARD FOR PLUMBING ELEMENTS AND FIXTURES INDICATED
- ACCESSORIES AND EQUIPMENT THAT DO NOT COMPLY WITH LIMITS OF PROTRUDING OBJECTS SHALL BE MOUNTED 1) AS INDICATED WITH CANE DETECTION OR 2) AT ADJUSTED HEIGHTS FOR CODE COMPLIANCE
- DRAWINGS SHALL NOT BE SCALED



1D

RESTROOM ACCESSORIES MOUNTING HEIGHTS

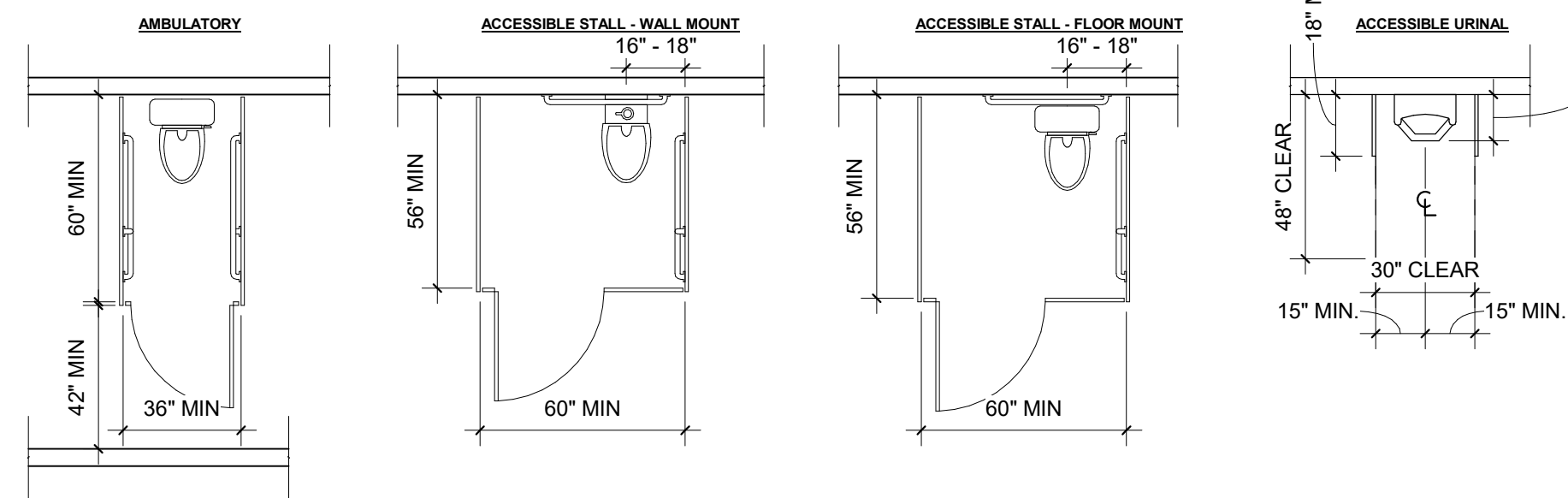
1/4" = 1'-0"



1E

TOILET AND GRAB BAR MOUNTING HEIGHTS

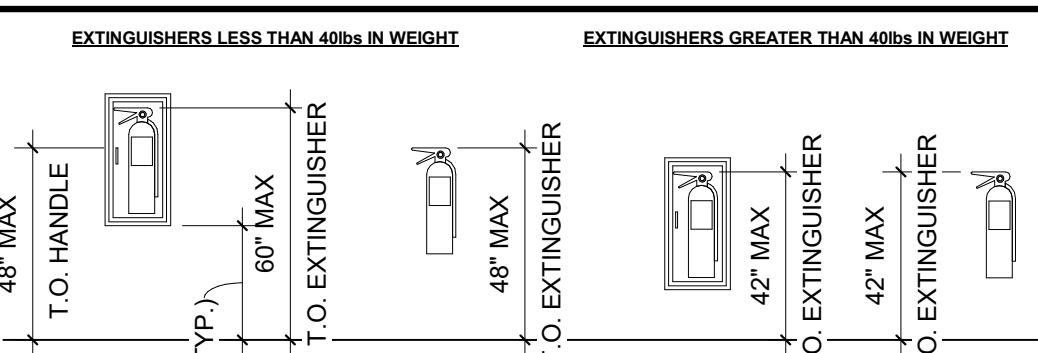
1/4" = 1'-0"



5F

WC/URINAL COMPARTMENTS

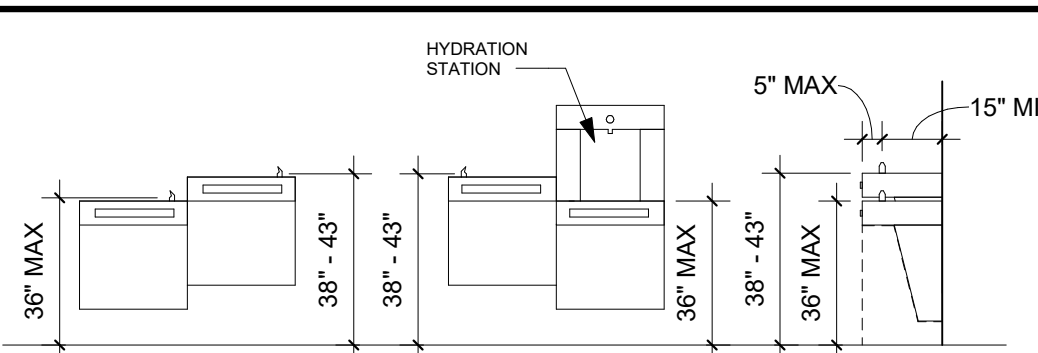
1/4" = 1'-0"



1F

FIRE EXTINGUISHERS

1/4" = 1'-0"



3F

EWC MOUNTING HEIGHTS

1/4" = 1'-0"

DIMENSION NOTES:

- DIMENSIONS NOT STATED AS MAX. OR MIN. ARE ABSOLUTE
- DIMENSIONS ARE NOT VARIABLE UNLESS INDICATED WITH DIMENSIONAL RANGES (ex: 33"-36")
- DIMENSIONS ARE VARIABLE WITHIN MINIMUM AND MAXIMUM LIMITATIONS INDICATED
- DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES
- DIMENSIONS ARE MEASURED FROM FINISH SURFACES (NOT FACE OF STUD), UNLESS OTHERWISE NOTED

CONSTRUCTION DOCUMENTS

Revisions		
No.	Description	Date

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commission: 24-140

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ENLARGED PLANS &
ACCESSIBILITY

sheet no.:

A4.04

1 2 3 4 5 6 7 8 9 10 11

A

B

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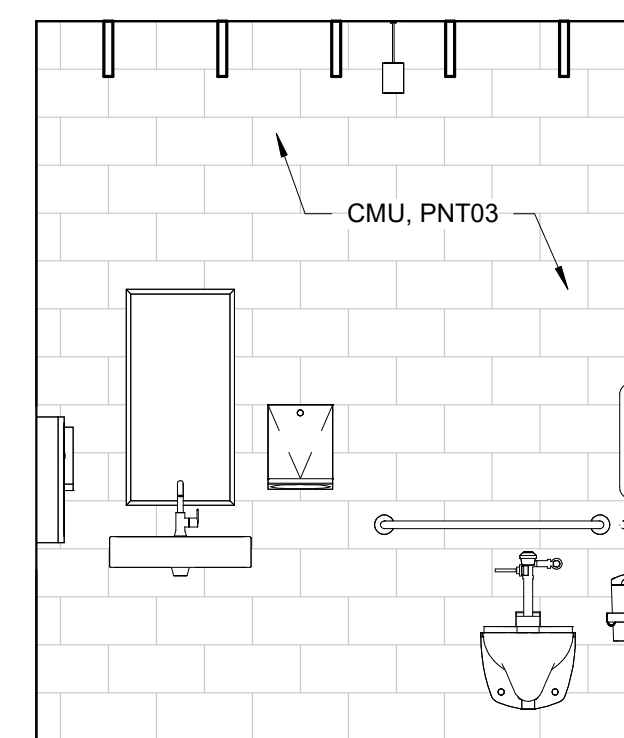
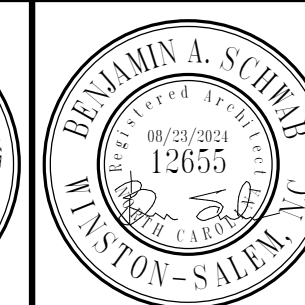
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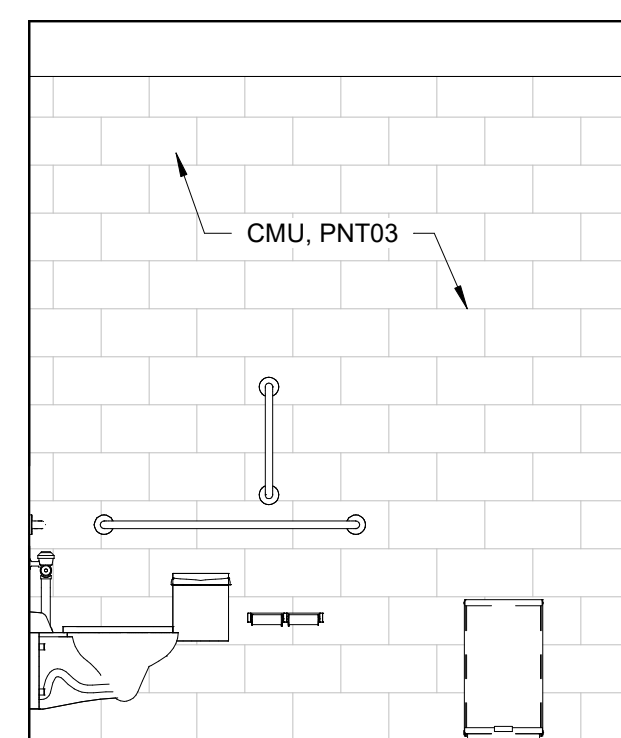
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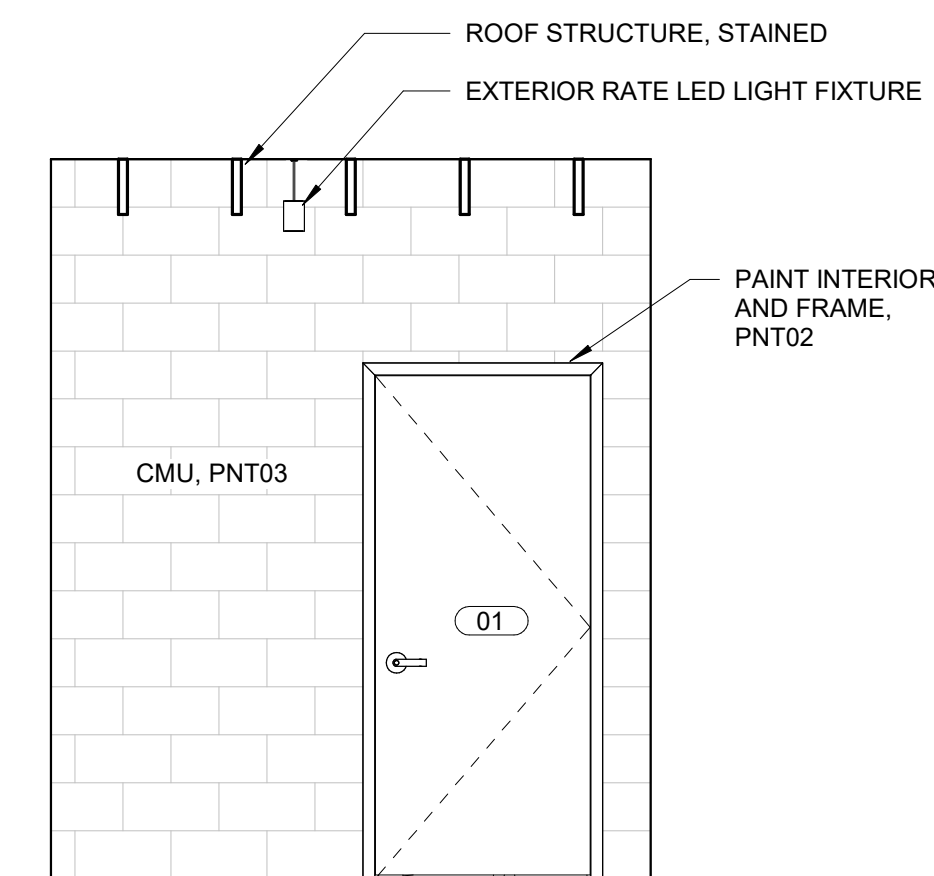
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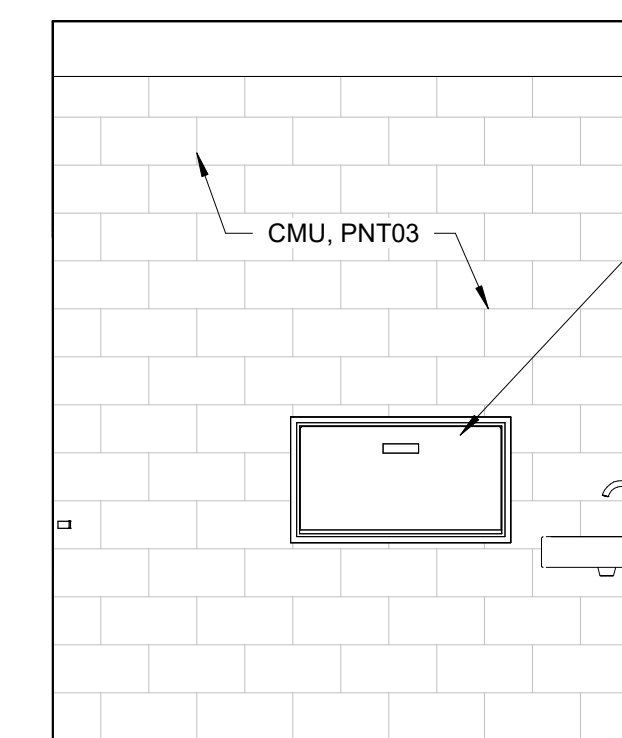
3D RESTROOM INT ELEVATION 04
3/8" = 1'-0"



5D RESTROOM INT ELEVATION 03
3/8" = 1'-0"

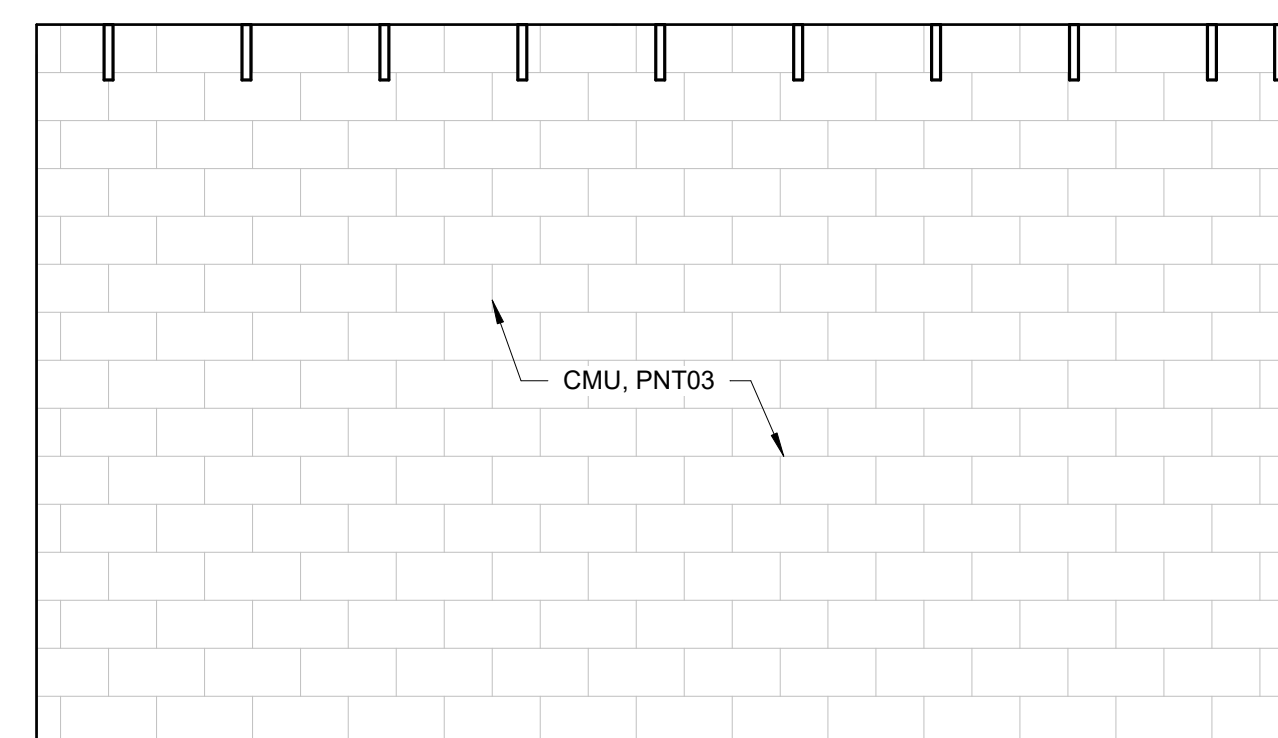


7D RESTROOM INT ELEVATION 02
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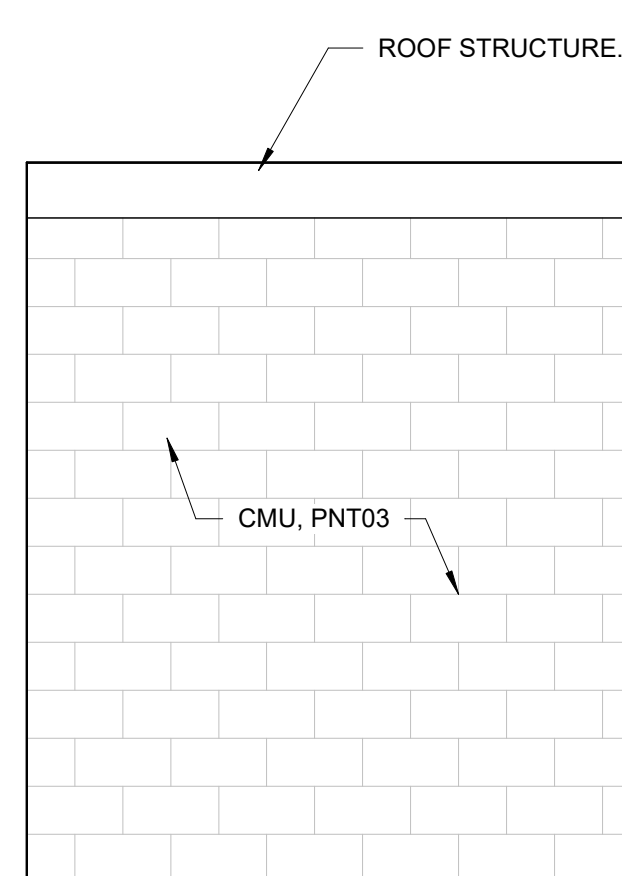


9D RESTROOM INT ELEVATION 01
3/8" = 1'-0"

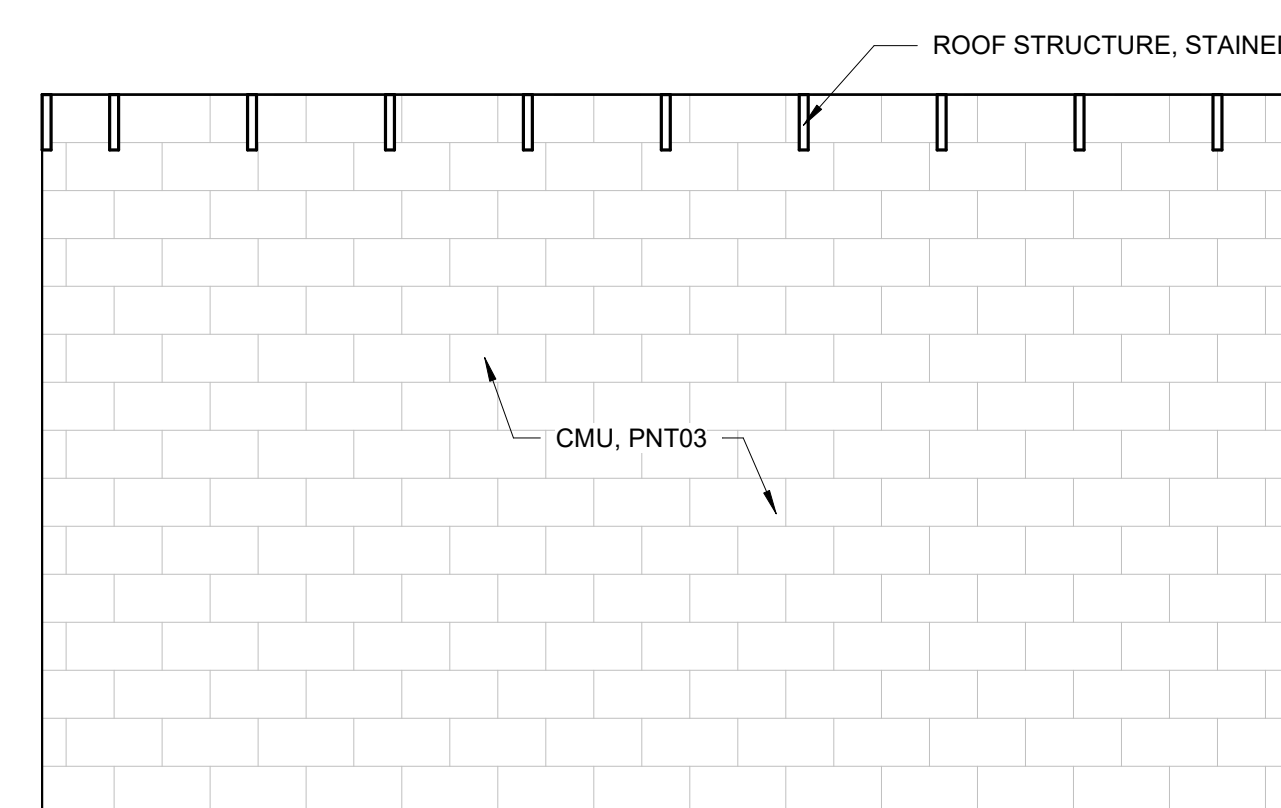
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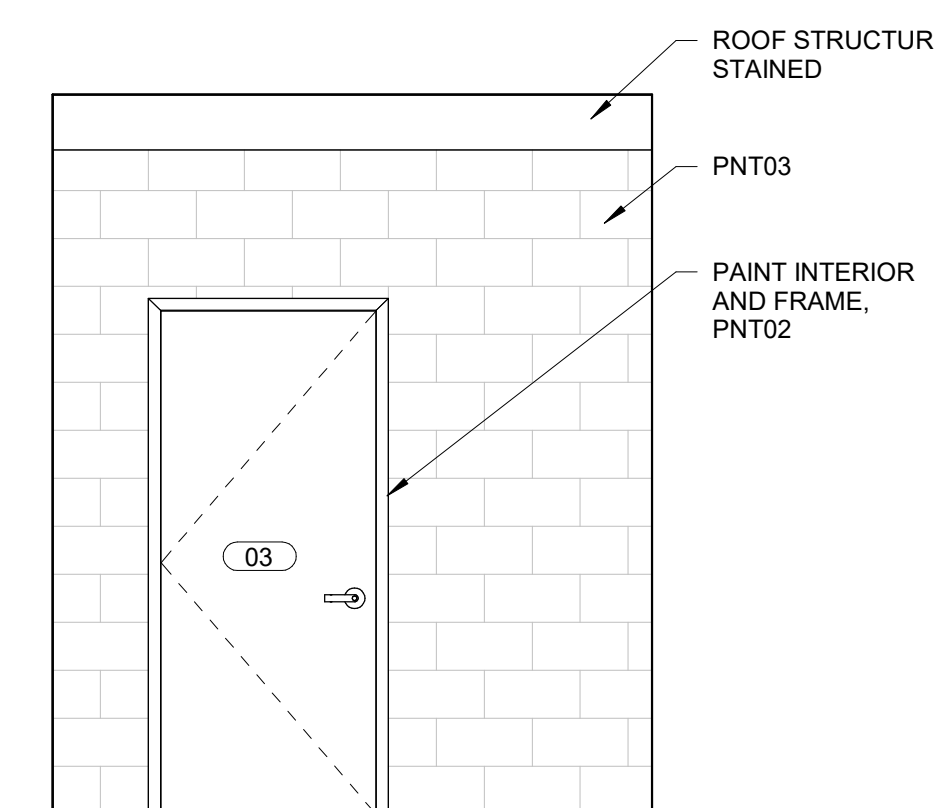
1F PLUMB CHASE INT ELEVATION 04
3/8" = 1'-0"



4F PLUMB CHASE INT ELEVATION 03
3/8" = 1'-0"



6F PLUMB CHASE INT ELEVATION 02
3/8" = 1'-0"



9F PLUMB CHASE INT ELEVATION 01
3/8" = 1'-0"

CONSTRUCTION DOCUMENTS

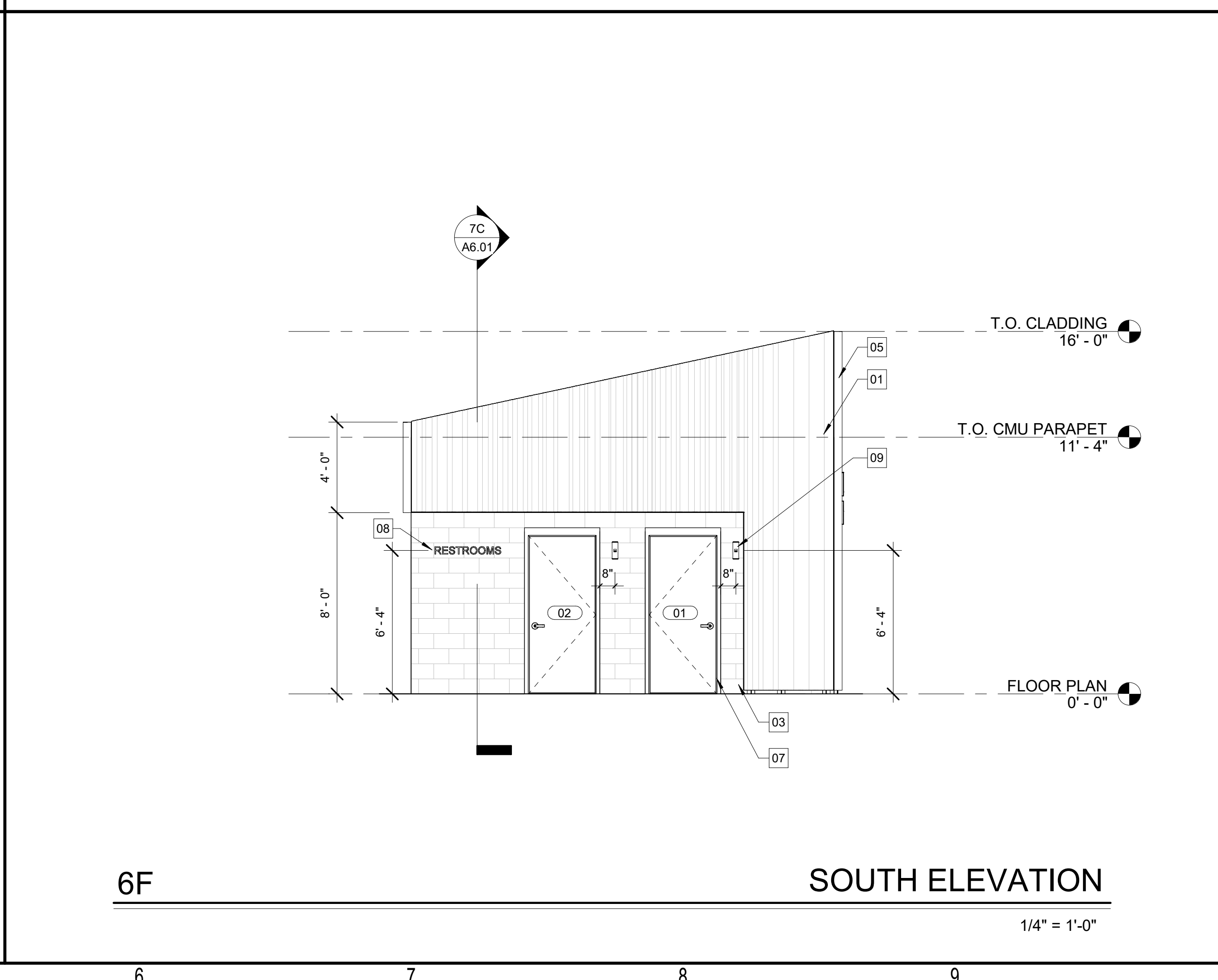
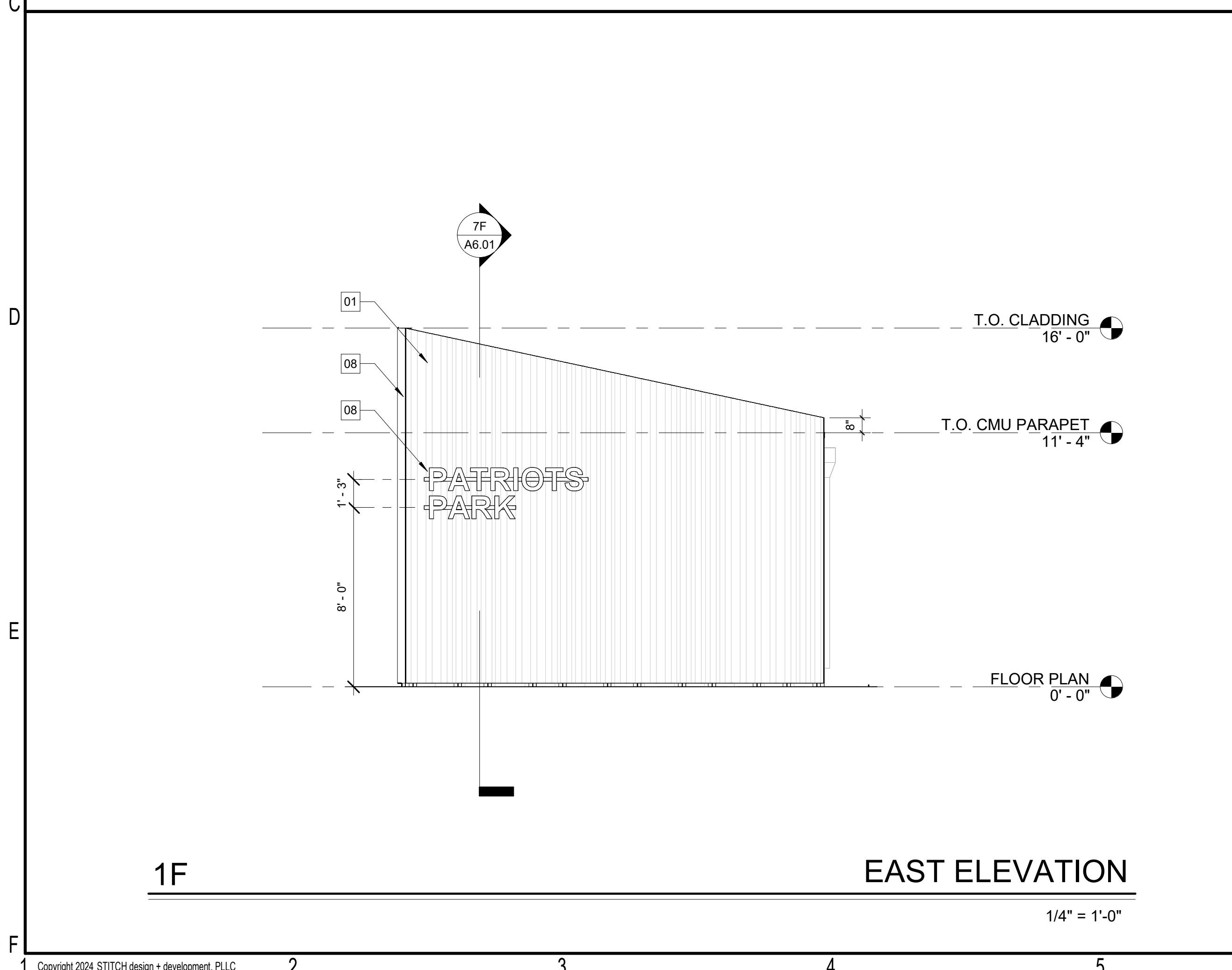
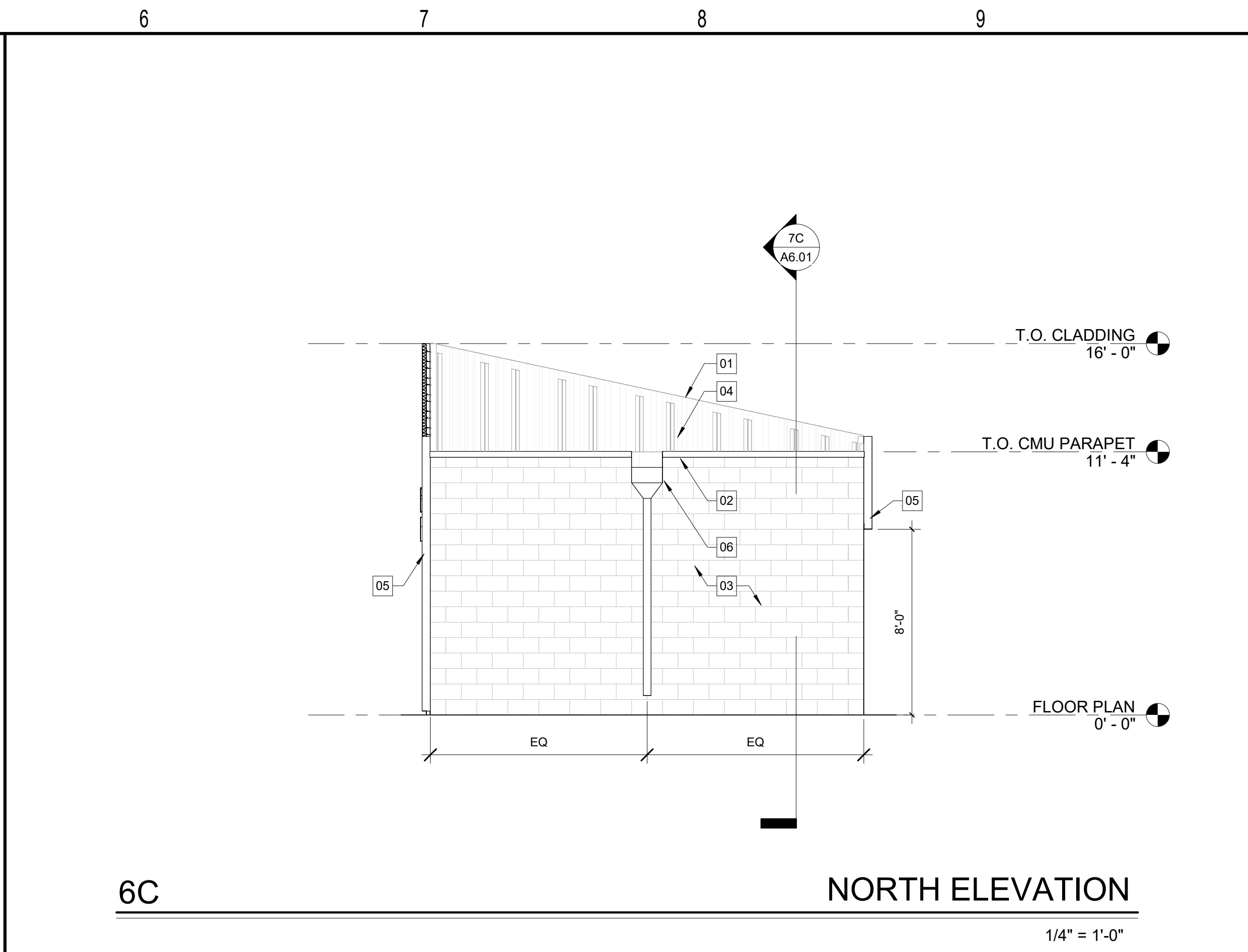
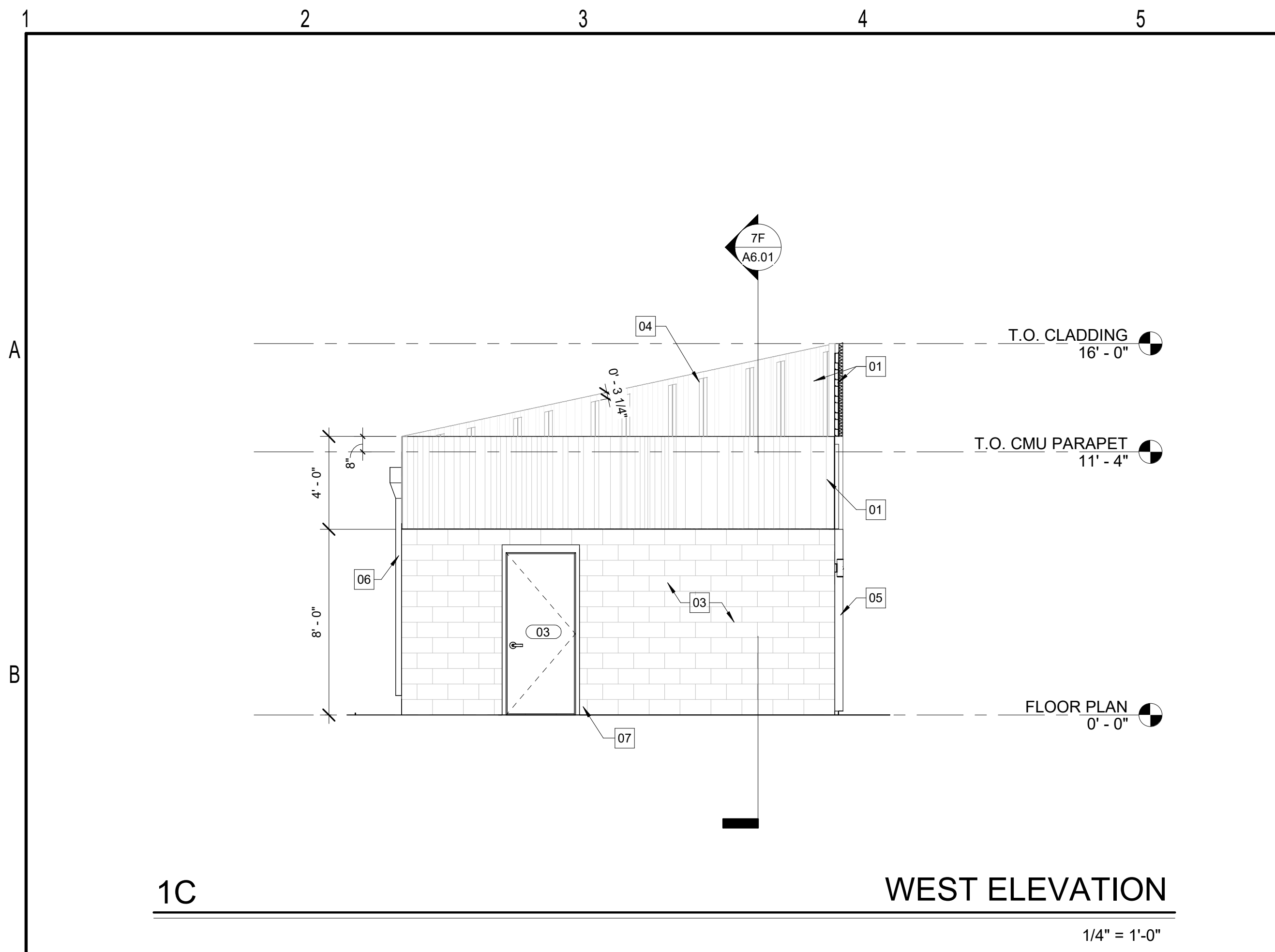
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No.	Description	Date

date: 08/23/2024
commission: 24-140

sheet title:
INTERIOR ELEVATIONS

sheet no.:
A4.05

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- KEYED NOTES - ELEVATION**
- 01 CORRUGATED, PERFORATED METAL WALL PANEL. ATTACH WITH EXPOSED FASTENERS. PAINT SCREW HEADS AND WASHERS TO MATCH PANEL FINISH
 - BASIS OF DESIGN: ATAS INTERNATIONAL, INC. WAVE PANEL W/ PERFORATION PROVIDE MFG STANDARD COLOR: BRITE RED
 - 02 METAL COPING CAP.
 - BASIS OF DESIGN: ATAS INTERNATIONAL, INC. RAPID-LOK COPING PROVIDE MFG STANDARD COLOR TO MATCH METAL PANEL
 - 03 8X8X16 CONCRETE MASONRY BLOCK. PAINT: PNT01
 - 04 VERTICAL GALVANIZED ANGLE Z FURRING PER STRUCTURAL PAINTED: PNT02. SEE STRUCTURAL FOR SPACING AND ANGLE SIZES
 - 05 STEEL ANGLE TRIM. PAINTED: PNT02
 - 06 PREFABRICATED METAL ROOF LEADER. PAINTED: PNT02
 - 07 HOLLOW METAL DOOR AND FRAME PER DOOR SCHEDULE. PAINTED: PNT02
 - 08 EXTERIOR BUILDING SIGN
 - 09 EXTERIOR WALL MOUNTED LIGHT FIXTURE

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PONDEROSA ROAD
CAMERON, NC

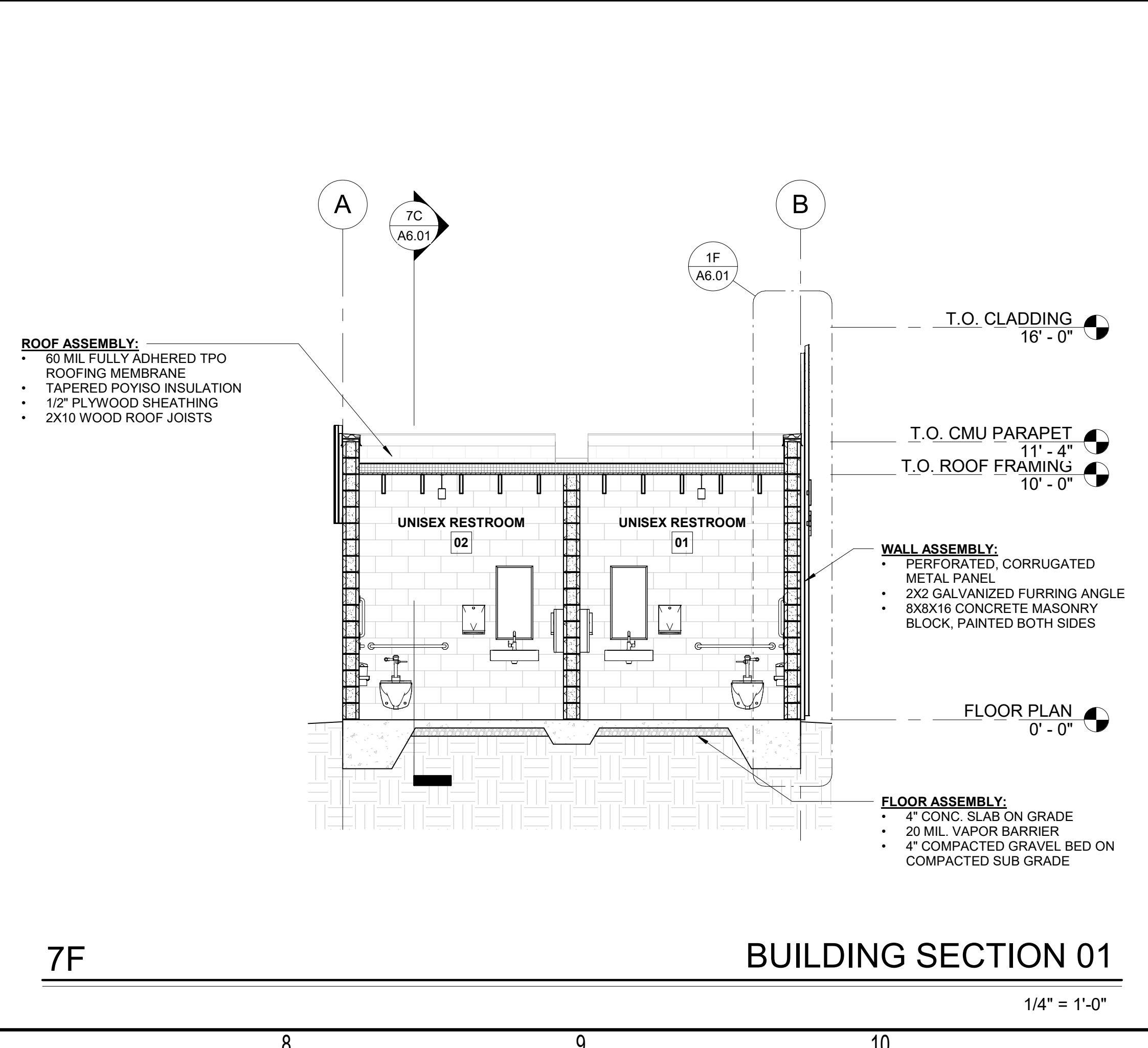
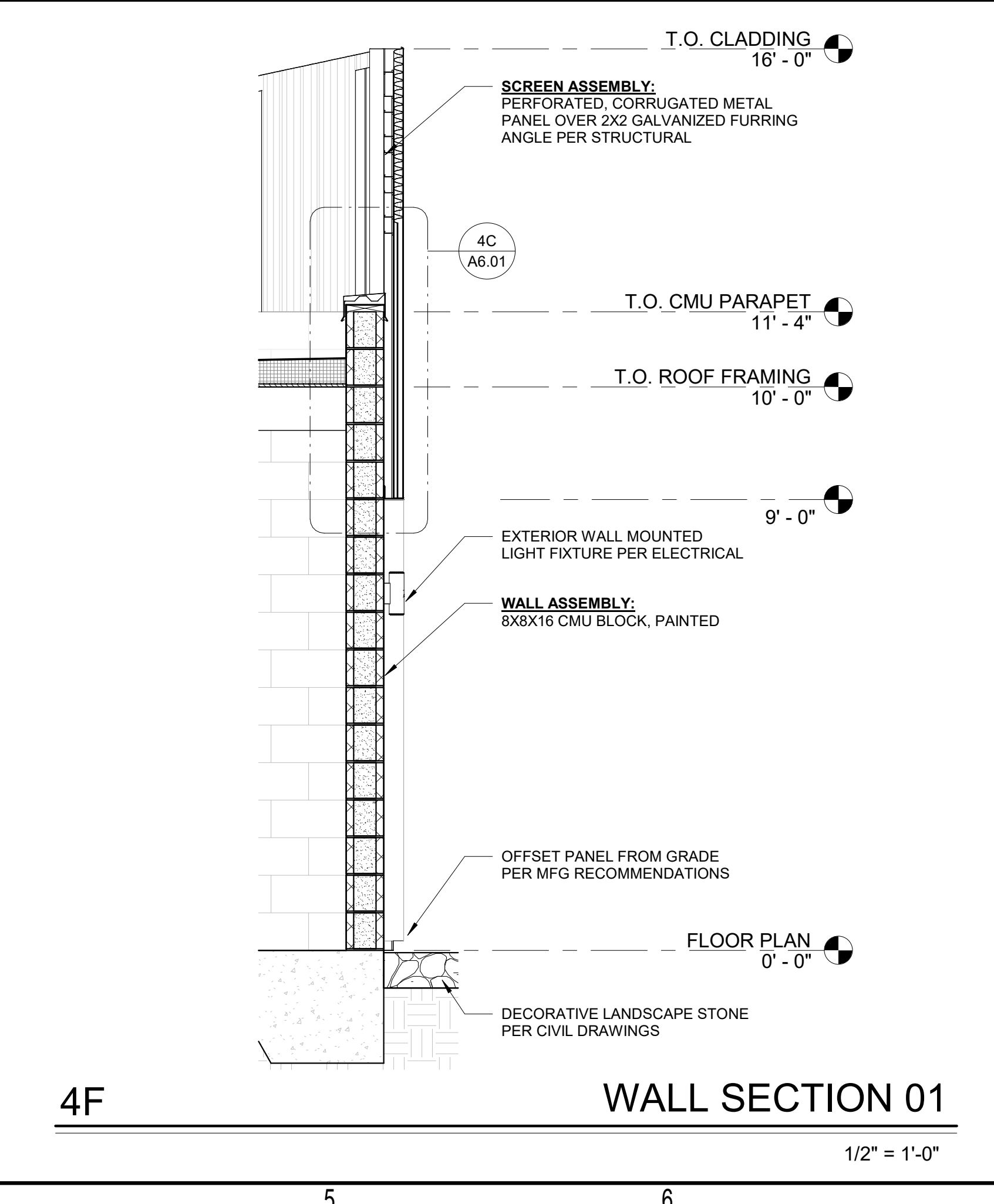
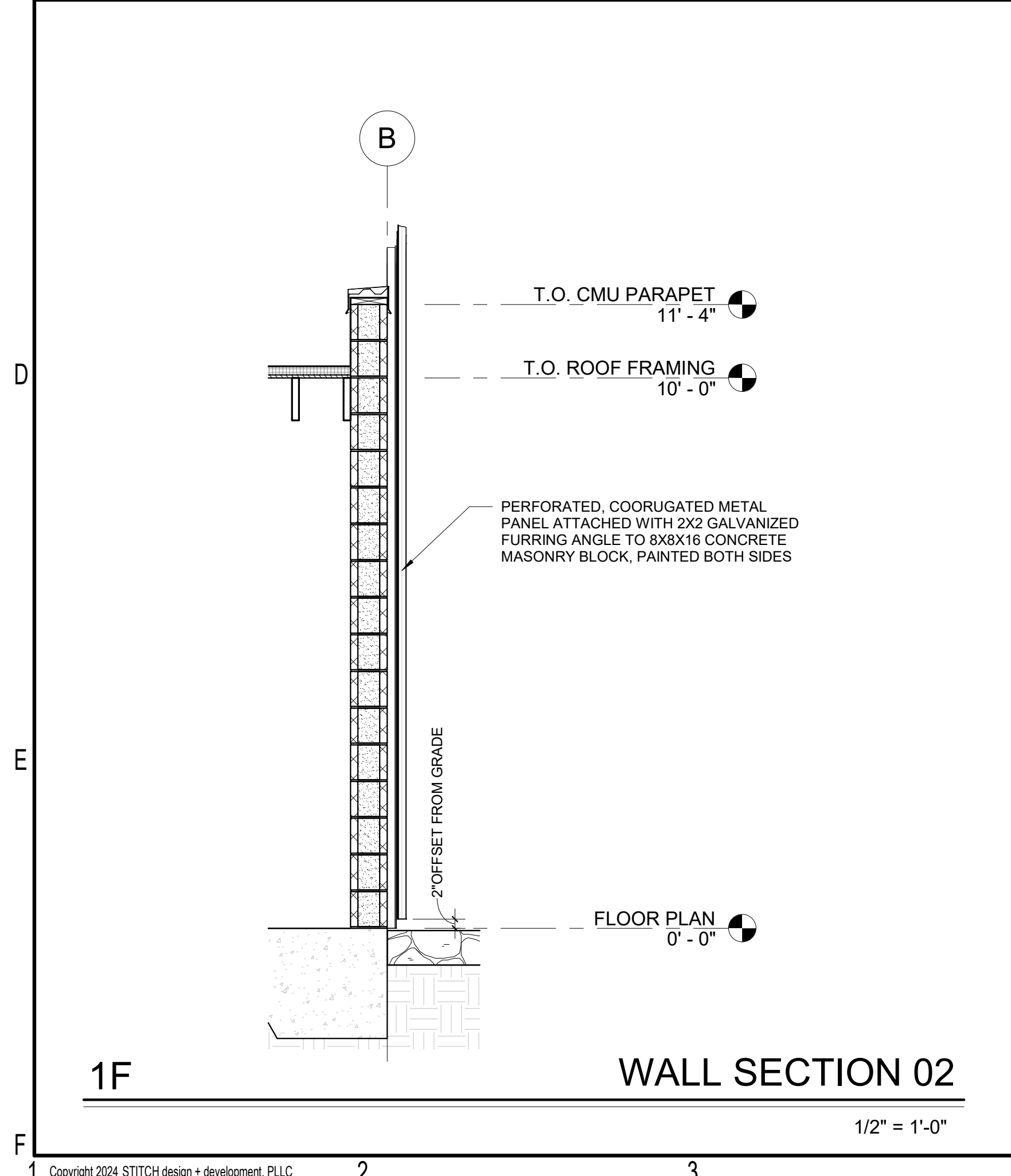
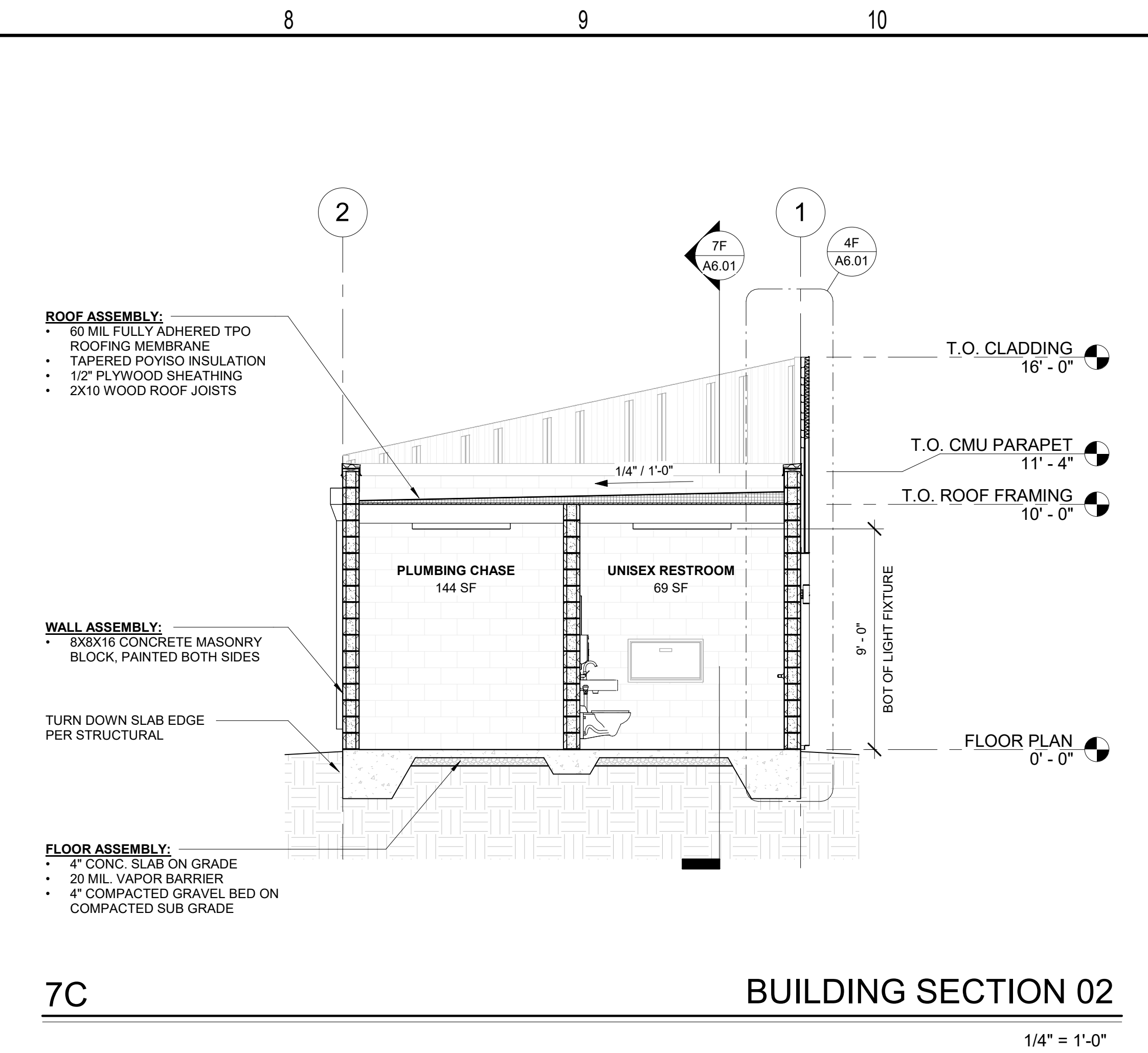
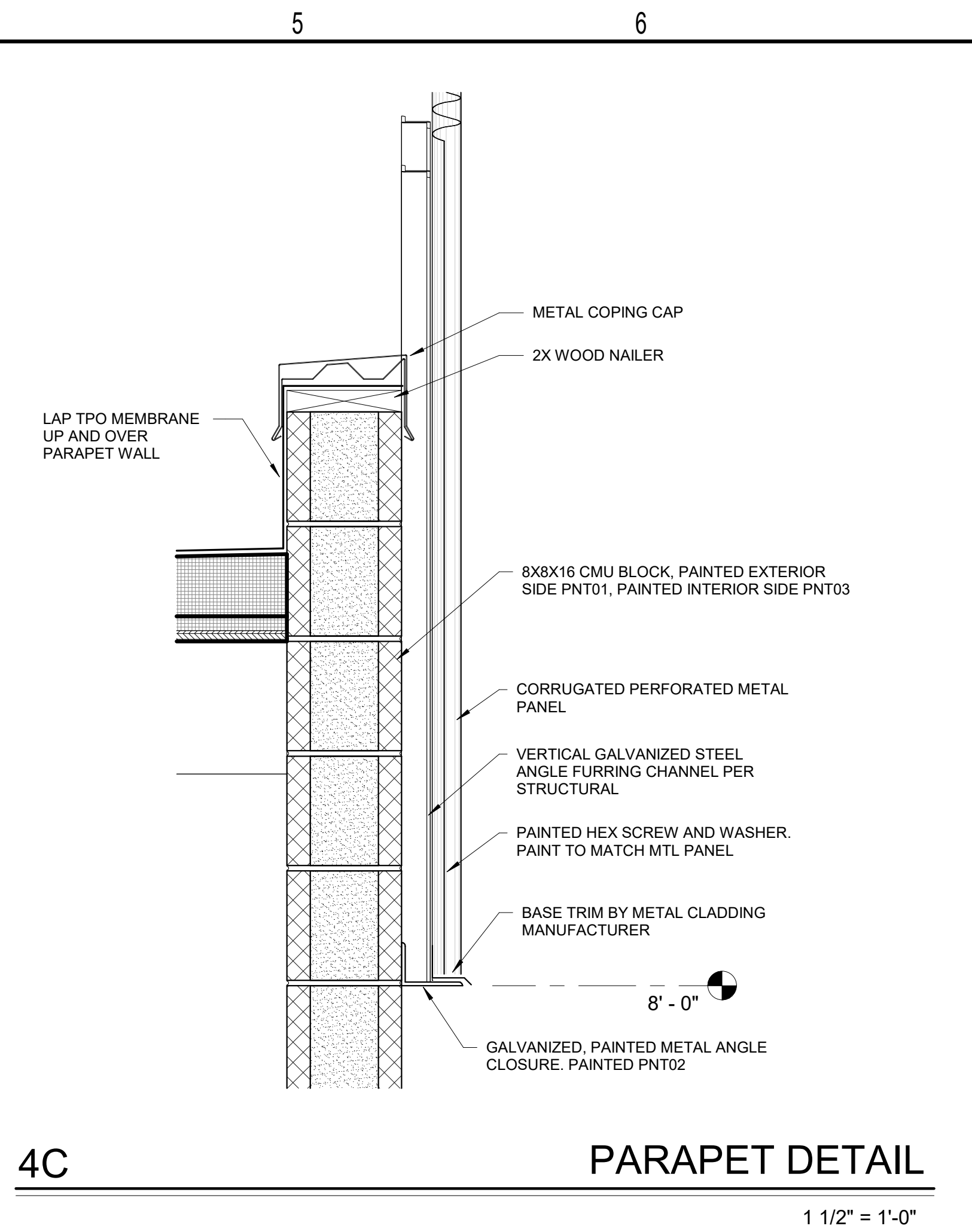
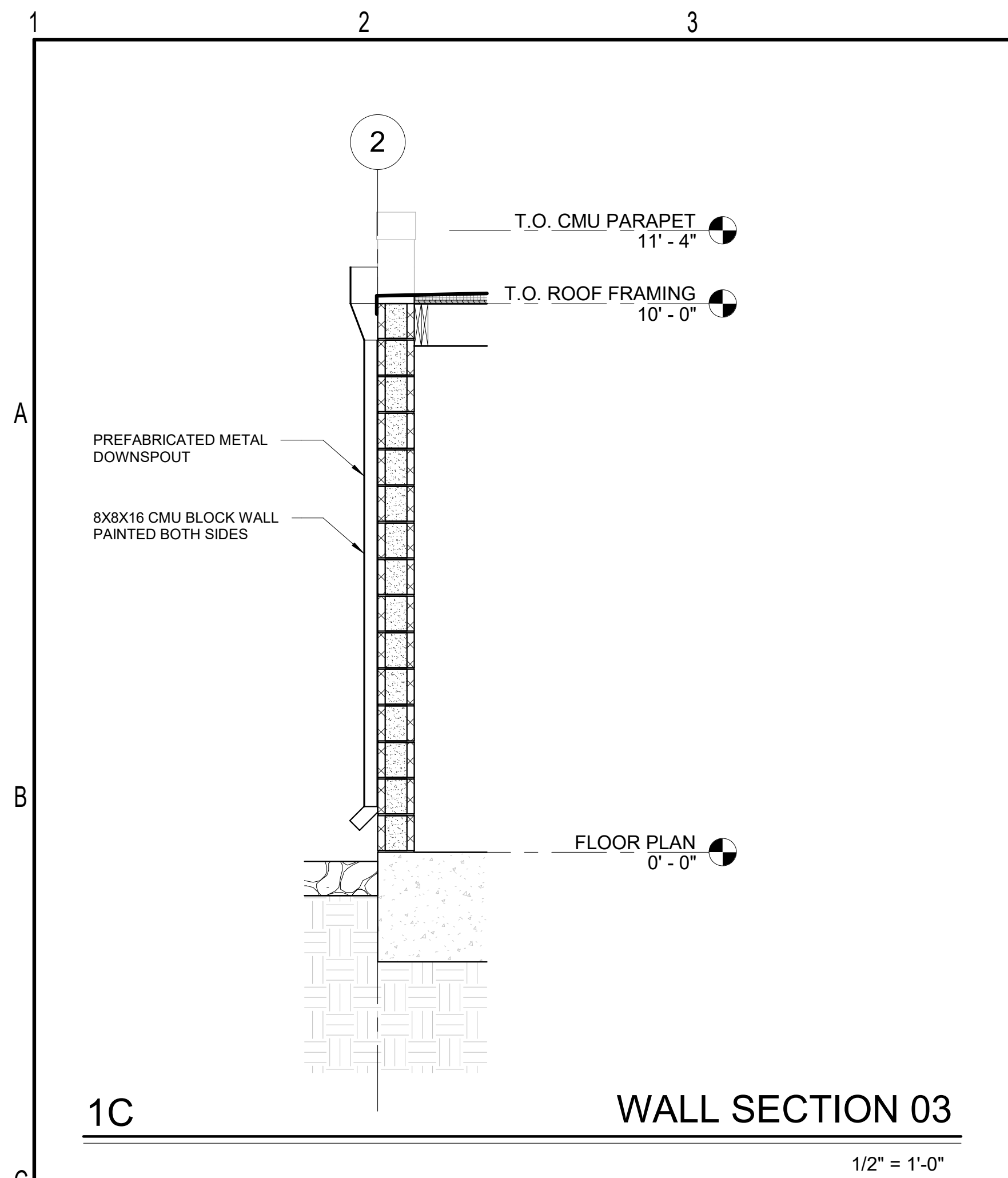
CONSTRUCTION DOCUMENTS

Revisions		
No.	Description	Date

date: 08/23/2024
commission: 24-140

sheet title:
SECTIONS

sheet no.:
A6.01



A. FOUNDATIONS

- ALL FOUNDATIONS SHALL BE FOUNDED ON RESIDUAL SOIL OR STRUCTURAL FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 2,000 PSF. ALLOWABLE SOIL BEARING PRESSURES SHALL BE VERIFIED BY GEOTECHNICAL ENGINEER AT THE TIME THE FOOTING EXCAVATIONS ARE MADE. WRITTEN VERIFICATION OF ADEQUATE BEARING MATERIALS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER.
- CONCRETE REINFORCING BARS SHALL BE HELD 3" CLEAR OF THE BOTTOM AND SIDES OF ALL FOUNDATION ELEMENTS. REINFORCING BARS SHALL BE FREE OF MUD, GREASE, OR ANY OTHER MATERIAL THAT COULD ADVERSELY AFFECT THE BOND BETWEEN THE DEFORMED BAR AND CONCRETE.
- THE GENERAL CONTRACTOR SHALL COORDINATE TOP OF FOOTING ELEVATIONS WITH SITE GRADING PLANS AND UTILITIES PRIOR TO FABRICATION OF CONCRETE REINFORCING STEEL AND/OR STRUCTURAL STEEL FRAMING.

B. CAST-IN-PLACE CONCRETE

- CAST-IN-PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28-DAY COMPRESSIVE STRENGTHS.
FOOTINGS.....3000 PSI
SLABS-ON-GRADE.....4000 PSI
- PRIOR TO CASTING ANY CONCRETE, MIX DESIGNS, INCLUDING ALL ADMIXTURES, SHALL BE APPROVED BY THE ARCHITECT OR ENGINEER. NO CALCIUM CHLORIDE SHALL BE ADDED TO THE MIX AT ANY TIME.
- ALL CONCRETE SUBJECT TO FREEZING CONDITIONS AND/OR DE-ICING SALTS SHALL CONTAIN ENTRAINED AIR AND SHALL HAVE A MAXIMUM WATER-TO-CEMENT RATIO OF 0.45.
- THE ADDITION OF WATER TO CONCRETE OUTSIDE OF THE BATCHING PLANT IS PROHIBITED, INCLUDING FOR THE PURPOSE OF INCREASING SLUMP OR FOR RETEMPERING OF CONCRETE THAT HAS BEGUN TO SET.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ISOLATION MATERIAL BETWEEN CONCRETE POURS AND BETWEEN CONCRETE AND OTHER MATERIALS, WHETHER SHOWN IN DETAILS OR NOT.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ANCHOR BOLTS, EMBED PLATES, CONNECTORS, SLEEVES, ETC. IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND IN COORDINATION WITH OTHER TRADES PRIOR TO PLACING CONCRETE.
- PREPARATION, PLACEMENT, CURING, AND FINISHING OF ALL CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.

C. CONCRETE REINFORCING

- REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185.
- REFER TO THE REINFORCING STEEL LAP SCHEDULE FOR LAP LENGTHS AND ADDITIONAL REQUIREMENTS OF LAP SPLICES.
- ALL REINFORCING STEEL, INCLUDING WELDED WIRE MESH, SHALL BE SUPPORTED AND SECURELY TIED IN PLACE TO MAINTAIN THE INTENDED REINFORCING LOCATION AND PROPER CLEAR COVER THROUGHOUT THE ENTIRE PROCESS OF PLACING CONCRETE. ALL CHAIRS, BOLSTERS, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- ALL REINFORCING STEEL SHALL BE CLEAN OF MUD, DEBRIS, RUST, OR ANY OTHER MATERIAL THAT MAY INHIBIT THE BOND BETWEEN THE CONCRETE AND STEEL REINFORCING.

D. STRUCTURAL STEEL

- ALL STRUCTURAL STEEL ROLLED SHAPES SHALL CONFORM TO ASTM A992, GRADE 50. ALL HSS SQUARE AND RECTANGULAR MEMBERS SHALL CONFORM TO ASTM A500, GRADE B, 50 KSI. ALL HSS ROUND MEMBERS SHALL CONFORM TO ASTM A500, GRADE B, 42 KSI. ALL PLATES AND MISCELLANEOUS STEEL, INCLUDING THOSE FOR BUILT-UP MEMBERS, SHALL CONFORM TO ASTM A36.
- BOLTS FOR CONNECTING STRUCTURAL STEEL MEMBERS SHALL BE ASTM A325-N, 3/4" DIAMETER, UNLESS OTHERWISE NOTED.
- ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1554 WITH A MINIMUM YIELD STRENGTH OF 36 KSI.
- STEEL STUD CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A29, A108, AND AWS D1.1 WITH A MINIMUM TENSILE STRENGTH OF 65 KSI.
- ALL WELDING ELECTRODES SHALL BE E70 SERIES, LOW HYDROGEN, UNLESS OTHERWISE NOTED.
- ALL WELDS SHALL BE MADE ONLY BY WELDERS WHO HAVE BEEN PREQUALIFIED BY TESTS OF THE AMERICAN WELDING SOCIETY, PRESCRIBED IN THE LATEST EDITION OF AWS D1.1.
- ALL FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATION, COMMENTARY, AND CODE OF STANDARD PRACTICE OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, EXCEPT REFERENCES TO THE "OWNER'S" RESPONSIBILITY SHALL BE CHANGED TO "CONTRACTOR'S" RESPONSIBILITY.
- ANY CONNECTION NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR.

E. CONCRETE MASONRY

- MATERIALS**
 - REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR CONCRETE MASONRY.
 - CONCRETE MASONRY UNITS SHALL BE TWO CORE UNITS WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI OR GREATER AND MORTAR SHALL BE TYPE S. BASED ON THESE VALUES, THE MASONRY COMPRESSIVE STRENGTH F_m HAS BEEN ASSUMED TO BE 1,500 PSI.
 - GROUT FILL FOR ALL REINFORCED MASONRY SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. GROUT SLUMP SHALL BE 9"-11" UNLESS SELF-CONSOLIDATING GROUT IS USED. GROUT FILL SHALL BE MECHANICALLY VIBRATED IN ACCORDANCE WITH TMS-402.
- REINFORCING**
 - ALL REINFORCING BARS SHALL BE SECURED IN PLACE PRIOR TO GROUTING WITH APPROVED ACCESSORIES TO PREVENT MOVEMENT OR DISPLACEMENT DURING THE GROUTING PROCESS.
 - REINFORCEMENT SHALL HAVE A MINIMUM OF 1/2" OF GROUT BETWEEN THE BAR AND THE MASONRY UNIT.
 - MASONRY SHALL BE REINFORCED HORIZONTALLY WITH STANDARD GALVANIZED WIRES (9 GA / W1.7) AT 16" O/C VERTICALLY. PREFABRICATED CORNERS AND TEES SHALL BE USED AS REQUIRED.
- GROUTING**
 - MAXIMUM LIFT HEIGHTS FOR PLACEMENT OF GROUT SHALL CONFORM TO TMS-402.
 - STOP GROUTING FOR EACH LIFT 1" BELOW TOP OF LAST CMU COURSE, WITH THE EXCEPTION OF THE LIFT TERMINATING AT THE TOP OF WALL.
 - PROVIDE FULL HEAD AND BED JOINTS FOR EACH UNIT. THE MORTAR BED UNDER THE FIRST COURSE AT THE FOUNDATION SHALL NOT FILL THE CORE AREA.
 - AT A MINIMUM, ALL MASONRY CELLS WITH REINFORCING SHALL BE GROUTED SOLID. REFER TO DRAWING NOTES AND DETAILS FOR ADDITIONAL GROUTING REQUIREMENTS. ALL MASONRY CELLS BELOW GRADE SHALL BE GROUTED SOLID.

F. DESIGN LOADS

- BUILDING RISK CATEGORY II
- IMPORTANCE FACTORS
SNOW IMPORTANCE FACTOR 1.00
ICE IMPORTANCE FACTORS (THICKNESS / WIND) 1.00 / 1.00
SEISMIC IMPORTANCE FACTOR 1.00
- SOIL BEARING CAPACITY 2000 PSF
- LIVE LOADS**
ROOF LIVE LOAD 20 PSF
FLOOR LIVE LOAD 100 PSF
- SNOW LOADS**
GROUND SNOW LOAD 10 PSF
SNOW LOAD EXPOSURE FACTOR 1.0
THERMAL FACTOR 1.0
- WIND DESIGN CRITERIA**
BASIC WIND SPEED 117 MPH
WIND EXPOSURE FACTOR B
INTERNAL PRESSURE COEFFICIENT +/- 0.18
COMPONENTS AND CLADDING DESIGN PER ASCE 7-10 CHAPTER 30
- SEISMIC DESIGN CRITERIA**
SITE CLASSIFICATION D (ASSUMED)
S₀ = 0.205 g
S₁ = 0.093 g
S₂ = 0.218 g
S₂₁ = 0.149 g
SEISMIC DESIGN CATEGORY B
SEISMIC RESPONSE MODIFICATION COEFFICIENT 2
ANALYSIS PROCEDURE E.L.F.

G. SHOP DRAWING SUBMITTALS

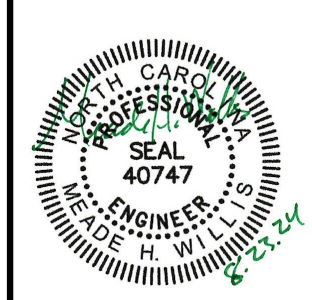
- SHOP DRAWINGS SHALL BE PREPARED FOR THE FOLLOWING STRUCTURAL ITEMS. REFER TO DRAWINGS OF OTHER TRADES FOR ADDITIONAL SHOP DRAWING REQUIREMENTS.
 - CONCRETE MIX DESIGNS
 - CONCRETE REINFORCING
 - CONCRETE MASONRY REINFORCING

H. MISCELLANEOUS

- STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF OTHER TRADES AND DRAWINGS FURNISHED BY MATERIAL AND EQUIPMENT SUPPLIERS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING WORK OF ALL TRADES IS FULLY COORDINATED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, ERECTING, AND REMOVING ALL TEMPORARY SHORING AND BRACING. SHOULD DESIGN OF TEMPORARY SHORING BE REQUIRED, THE CONTRACTOR IS RESPONSIBLE FOR PROCURING SUCH DESIGN AND INSTALLING IT IN ACCORDANCE WITH THE PROVIDED SHOP DRAWINGS AND CONSTRUCTION DOCUMENTS.
- ALL SPECIALTY BOLTS, ANCHORS, PRODUCTS, ETC. SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
- "PROVIDE" SHALL BE INTERPRETED TO MEAN "FURNISH AND INSTALL".
- THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE SAFETY REGULATIONS. THE ENGINEER SHALL NOT HAVE CONTROL OF, CHARGE OF, OR BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES IN CONNECTION WITH THE WORK OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.



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**PATRIOTS PARK
COMFORT STATION**
Cameron, NC

CONSTRUCTION DOCUMENTS

Revisions		
No.	Description	Date

DATE 8.23.2024
PROJECT CODE 2406

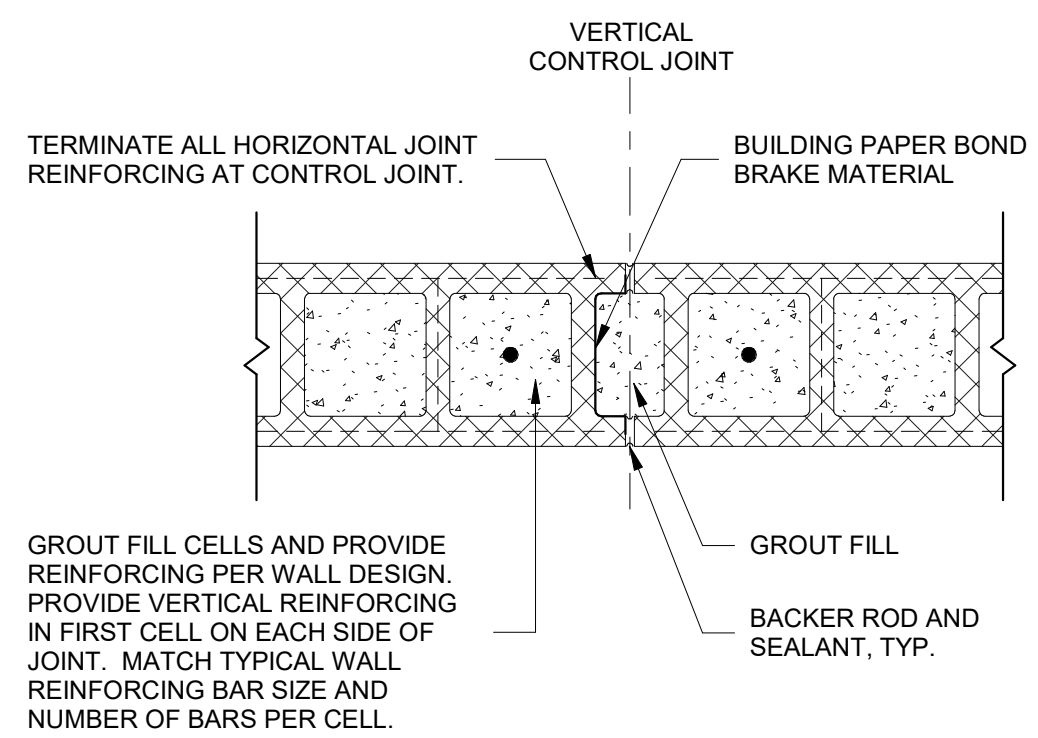
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GENERAL NOTES AND SCHEDULES

sheet no.:
S-1.0

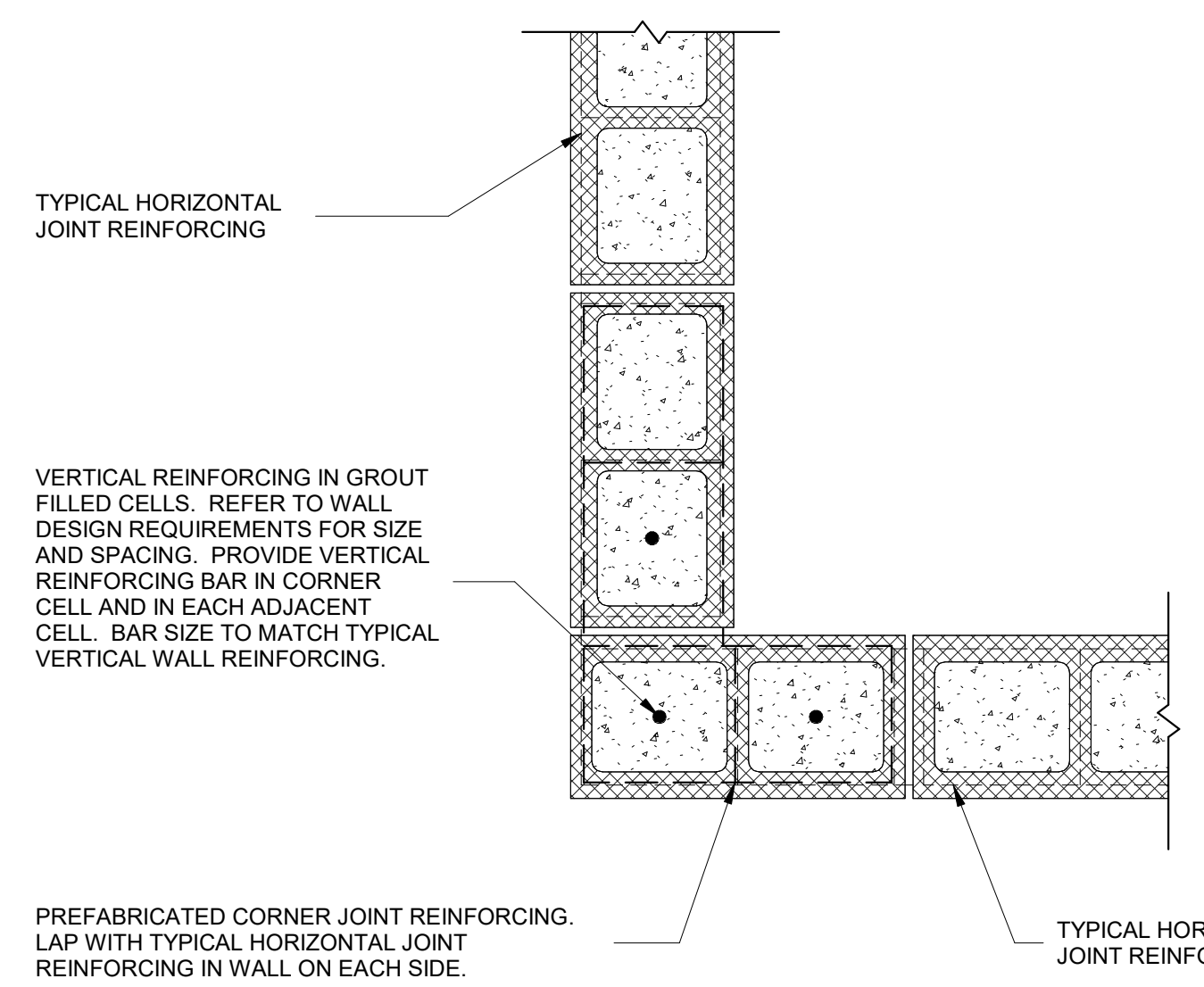
BAR SIZE	MASONRY LAP	3000 PSI CONCRETE LAP	4000 PSI CONCRETE LAP
#3	18"	22"	19"
#4	24"	29"	25"
#5	30"	36"	31"
#6	54"	43"	37"
#7	N/A	63"	54"
#8	N/A	72"	62"
#9	N/A	81"	70"
W.W.F.	N/A	12"	12"

REBAR LAP SCHEDULE NOTES

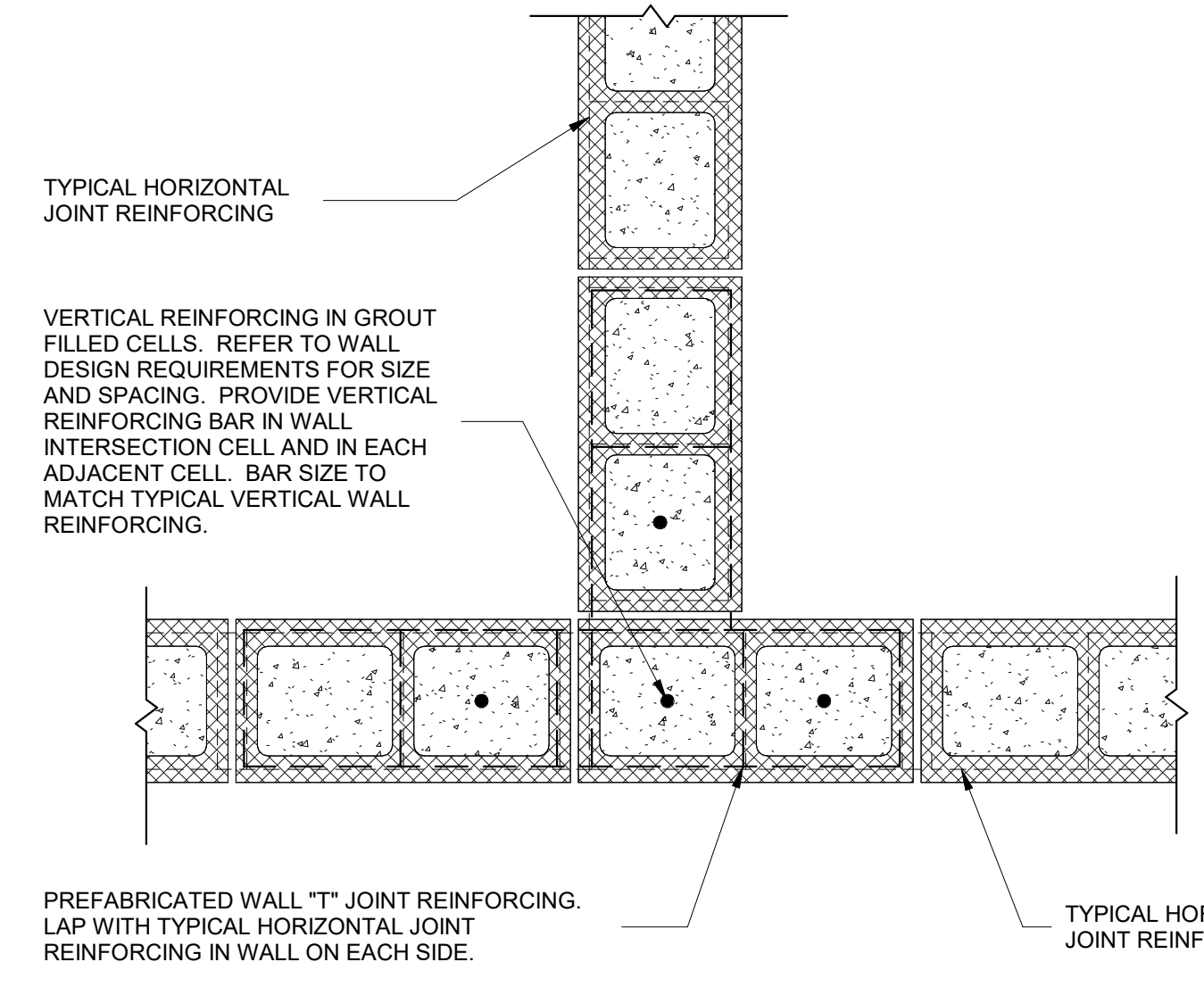
- LAP LENGTHS ABOVE ASSUME MINIMUM ALLOWABLE CLEAR COVER DIMENSIONS.
- FOR HORIZONTAL REINFORCEMENT PLACED IN WALLS, FOOTINGS, OR SLABS WITH 12" OF FRESH CONCRETE BELOW THE BARS, MULTIPLY THE LAP LENGTHS ABOVE BY A FACTOR OF 1.3.
- FOR CONDITIONS NOT LISTED, CONTACT THE ENGINEER OF RECORD.



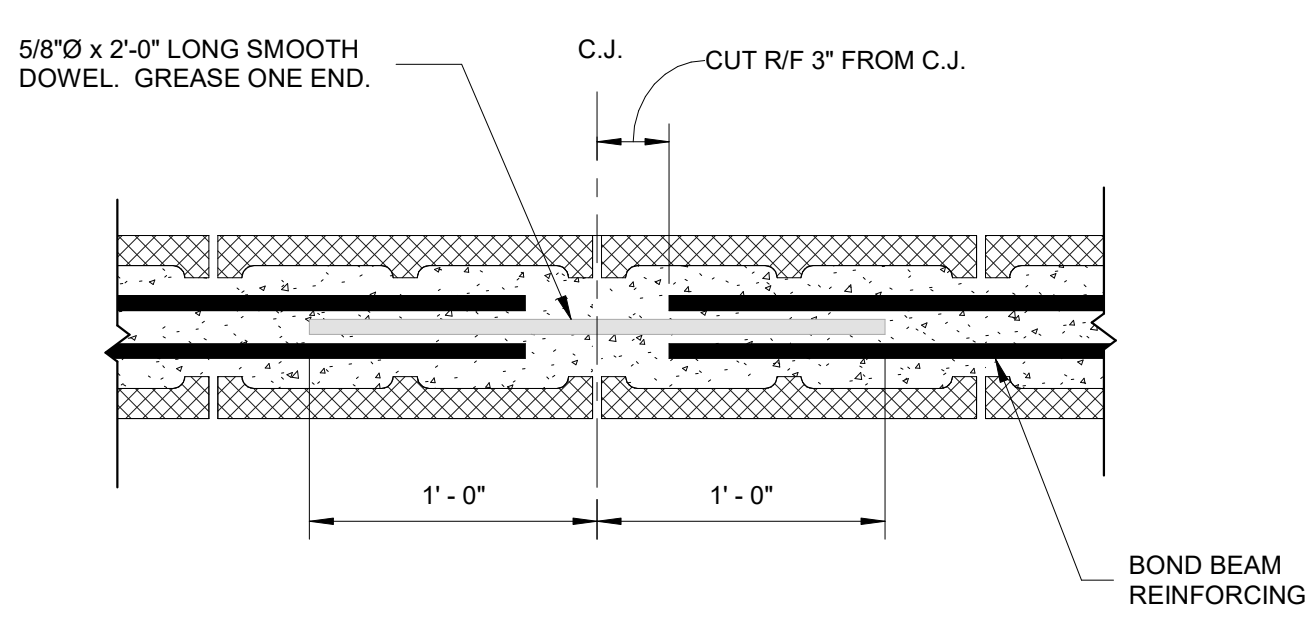
1 **CMU CONTROL JOINT**
NOT TO SCALE



2 **CMU CORNER REINFORCING**
NOT TO SCALE



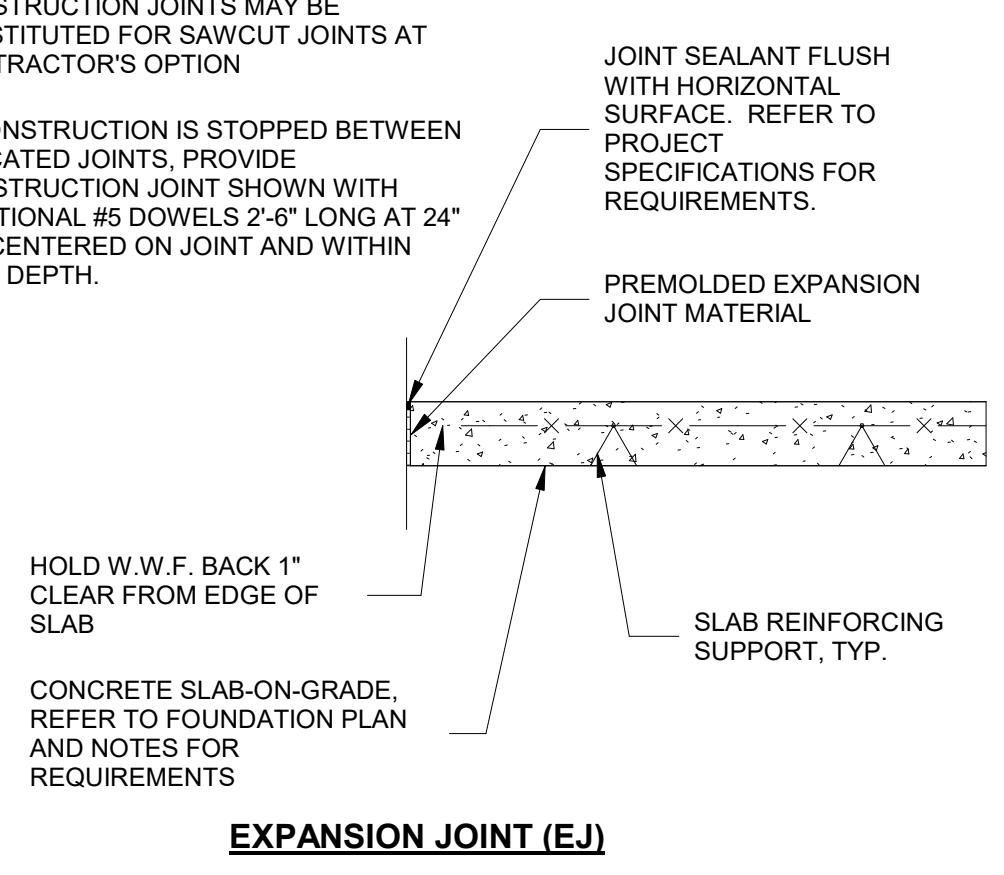
3 **CMU WALL "T" REINFORCING**
NOT TO SCALE



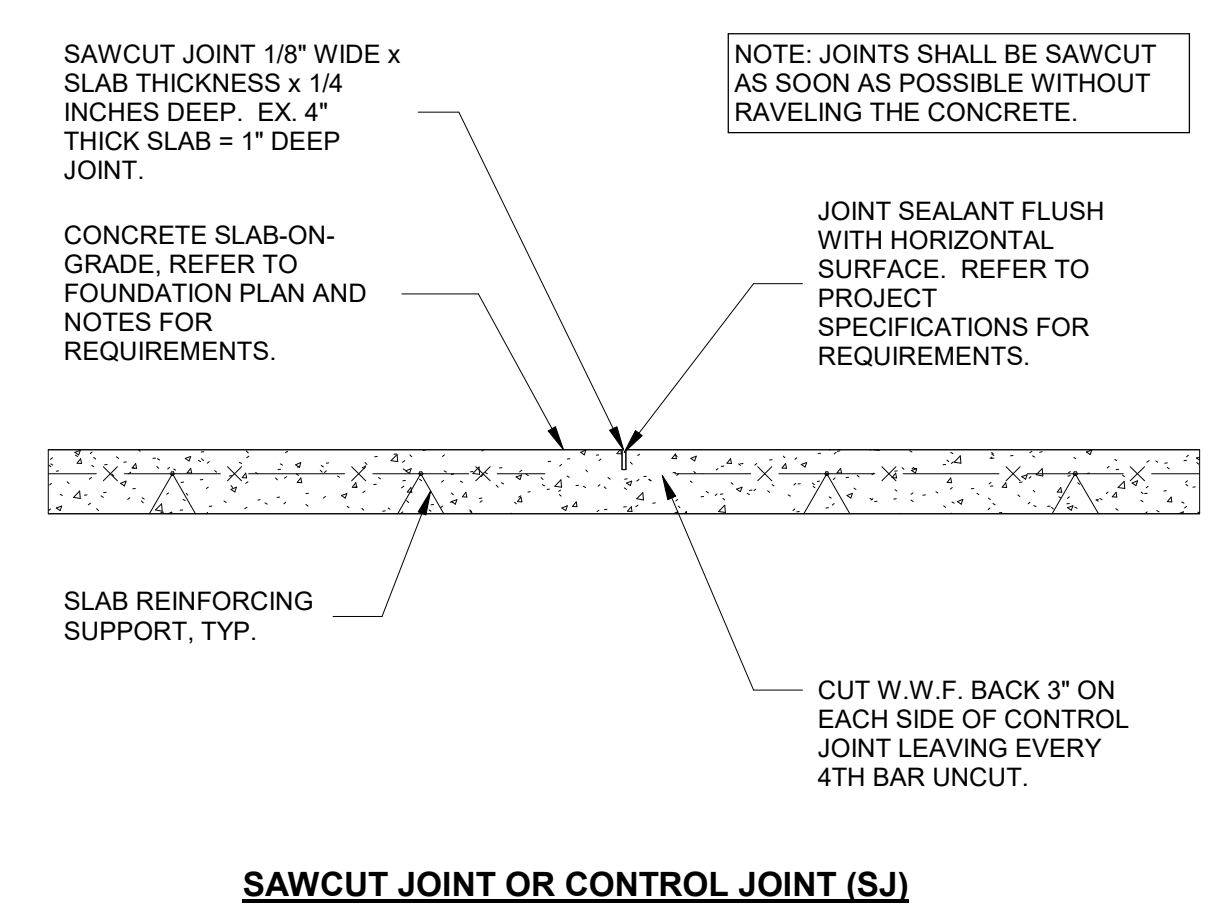
4 **BOND BEAM C.J.**
NOT TO SCALE

NOTES:

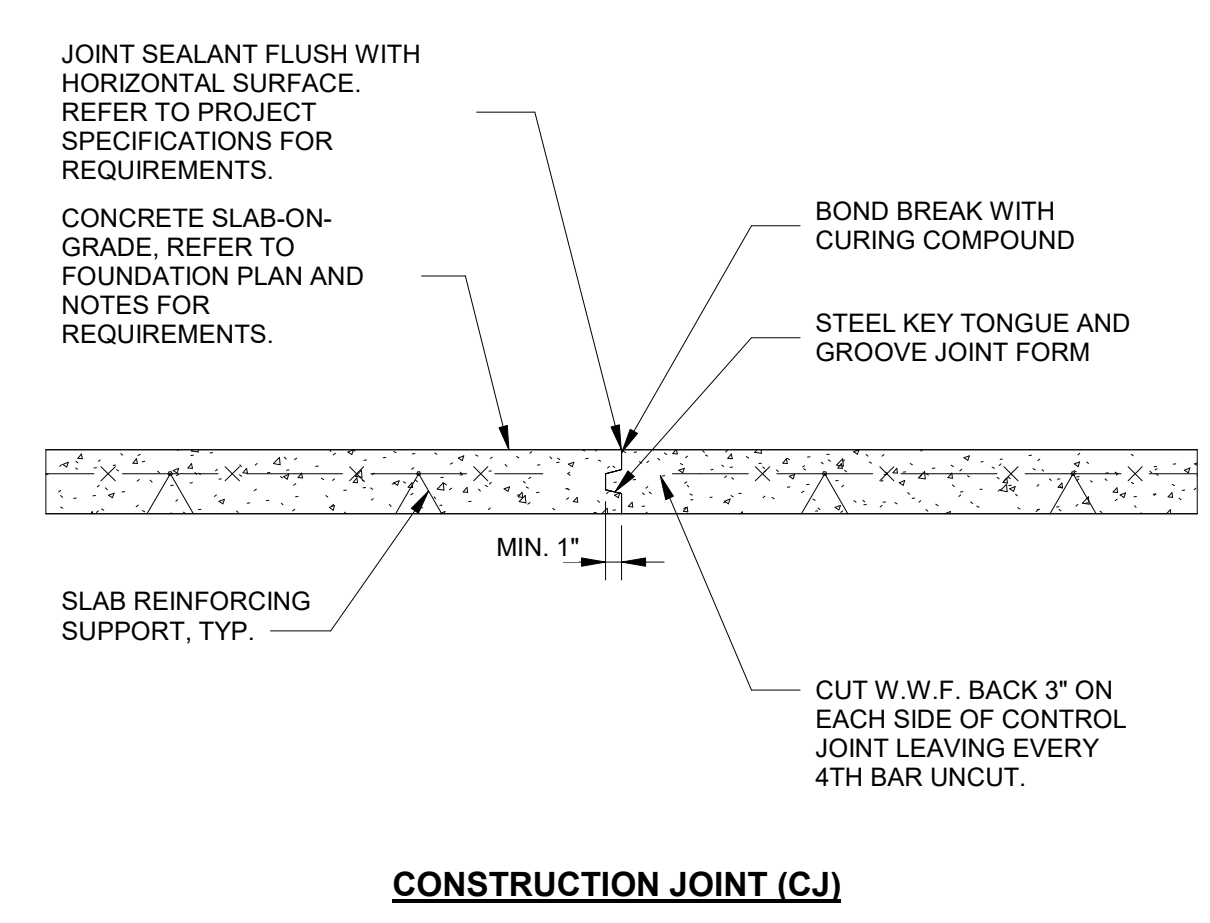
- CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR SAWCUT JOINTS AT CONTRACTOR'S OPTION
- IF CONSTRUCTION IS STOPPED BETWEEN INDICATED JOINTS, PROVIDE CONSTRUCTION JOINT SHOWN WITH ADDITIONAL #5 DOWELS 2'-6" LONG AT 24" O/C CENTERED ON JOINT AND WITHIN SLAB DEPTH.



5 **EXPANSION JOINT (EJ)**



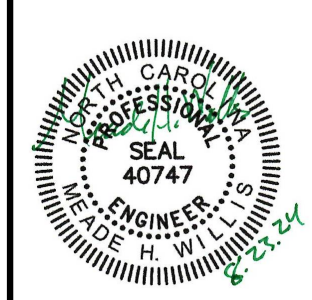
TYPICAL SLAB ON GRADE JOINTS
NOT TO SCALE



CONSTRUCTION JOINT (CJ)



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CONSTRUCTION DOCUMENTS

Revisions		
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DATE: 8.23.2024
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sheet title:
TYPICAL DETAILS AND SCHEDULES

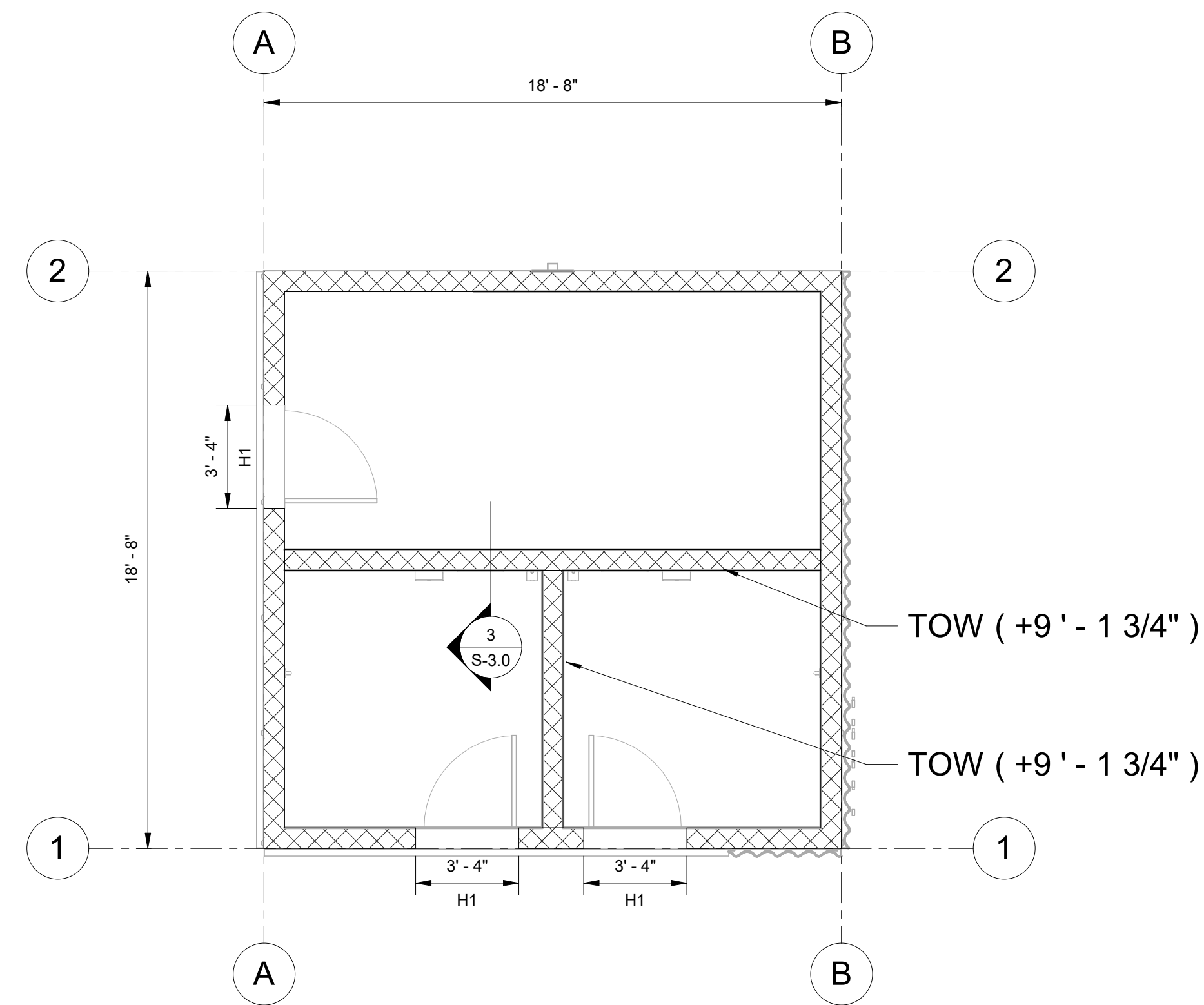
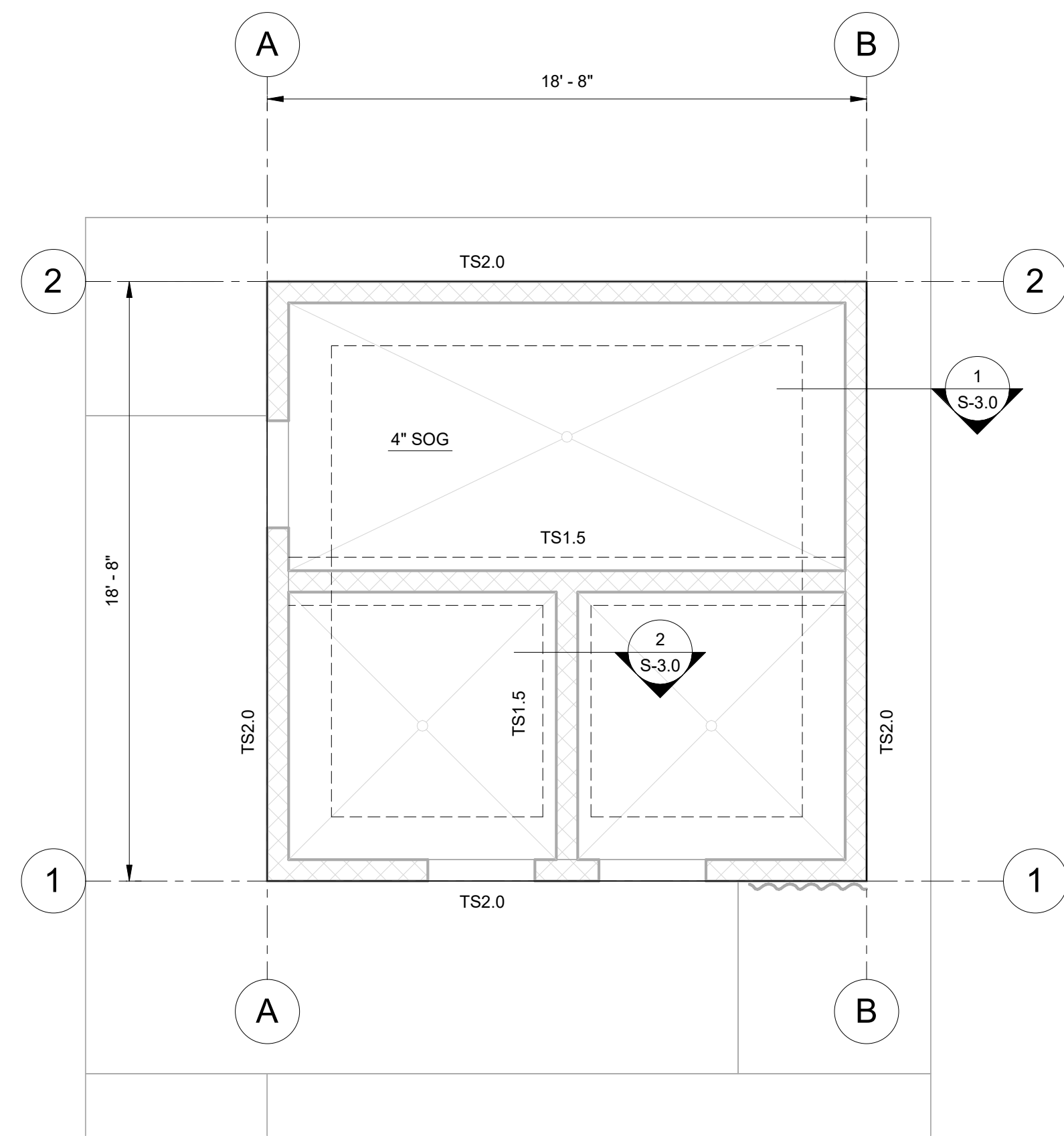
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S-1.1

FOUNDATION PLAN NOTES

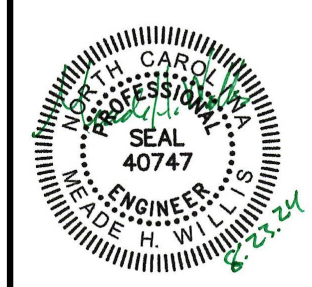
- (+/- ' - ") ON PLAN DENOTES ELEVATION OF FOUNDATION ELEMENT RELATIVE TO REFERENCE TOP OF CONCRETE SLAB ELEVATION OF (+ 0' - 0")
- TS ON PLAN DENOTES CONTINUOUS THICKENED SLAB WALL FOOTING. REFER TO FOUNDATION DETAILS FOR REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE SAWCUT CONTROL JOINTS IN THE CONCRETE SLAB ON GRADE AT A MAXIMUM SPACING OF 10'-0" ON CENTER. REFER TO TYPICAL SLAB JOINT DETAILS FOR REQUIREMENTS.
- ALL FOUNDATION COMPONENTS SHALL BE CONSTRUCTED ON SOUND SUBGRADE MATERIAL WITH A MINIMUM BEARING CAPACITY OF 2,000 PSF. REFER TO GEOTECHNICAL REPORT BY FOR REQUIREMENTS OF SUBGRADE TESTING, PREPARATION, AND ADDITIONAL INFORMATION.
- INTERIOR CONCRETE SLAB-ON-GRADE SHALL BE A MINIMUM 4" THICK 4,000 PSI MIX. PROVIDE 6 x 6 x W1.4 x W1.4 WELDED WIRE MESH REINFORCING HELD 1" CLEAR FROM TOP OF SLAB. PLACE SLAB OVER MINIMUM 8 MIL POLY VAPOR BARRIER OVER MINIMUM 4" COMPACTED STONE FILL MATERIALS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS FOR INSULATION, WATERPROOFING, FLASHING, FINISH MATERIALS, ETC.
- REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

HEADER FRAMING PLAN NOTES

- UNLESS OTHERWISE NOTED ON PLAN, TOP OF WALL ELEVATION SHALL BE (+11' - 4") ABOVE REFERENCE FLOOR ELEVATION OF (+0' - 0"). TOW (+ - ' - ") ON PLAN DENOTES ALTERNATE TOP OF WALL ELEVATION.
- DIMENSIONS FOR OPENINGS SHOWN ON PLAN ARE FOR GENERAL REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION, SIZE AND ORIENTATION OF WALL OPENINGS.
- WALL CONSTRUCTION SHALL BE 8"x8"x16" CONCRETE MASONRY UNITS. PROVIDE #4 VERTICAL BARS @ 48" O/C. PROVIDE LADDER STYLE HORIZONTAL JOINT REINFORCING @ 16" O/C. TYPICAL CMU WALLS SHALL BE FULLY GROUTED FROM TOP OF WALL TO FOUNDATION LEVEL AT EACH REINFORCED CELL. REFER TO MASONRY WALL REINFORCING NOTES AND DETAILS FOR ADDITIONAL REINFORCING REQUIREMENTS.
- H ON PLAN INDICATES LOCATION OF STRUCTURAL LINTEL HEADER. H1 DENOTES 8" DEEP REINFORCED CMU HEADER. REFER TO CMU HEADER DETAIL FOR ADDITIONAL DETAILS AND REQUIREMENTS.
- REFER TO ARCHITECTURAL DETAILS FOR ROUGH OPENING DIMENSIONS.
- REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.



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CONSTRUCTION DOCUMENTS

Revisions		
No.	Description	Date

DATE: 8.23.2024
PROJECT CODE: 2406

sheet title:
COMFORT STATION FOUNDATION
AND HEADER FRAMING PLANS

sheet no.:
S-2.0

1 COMFORT STATION - FOUNDATION PLAN

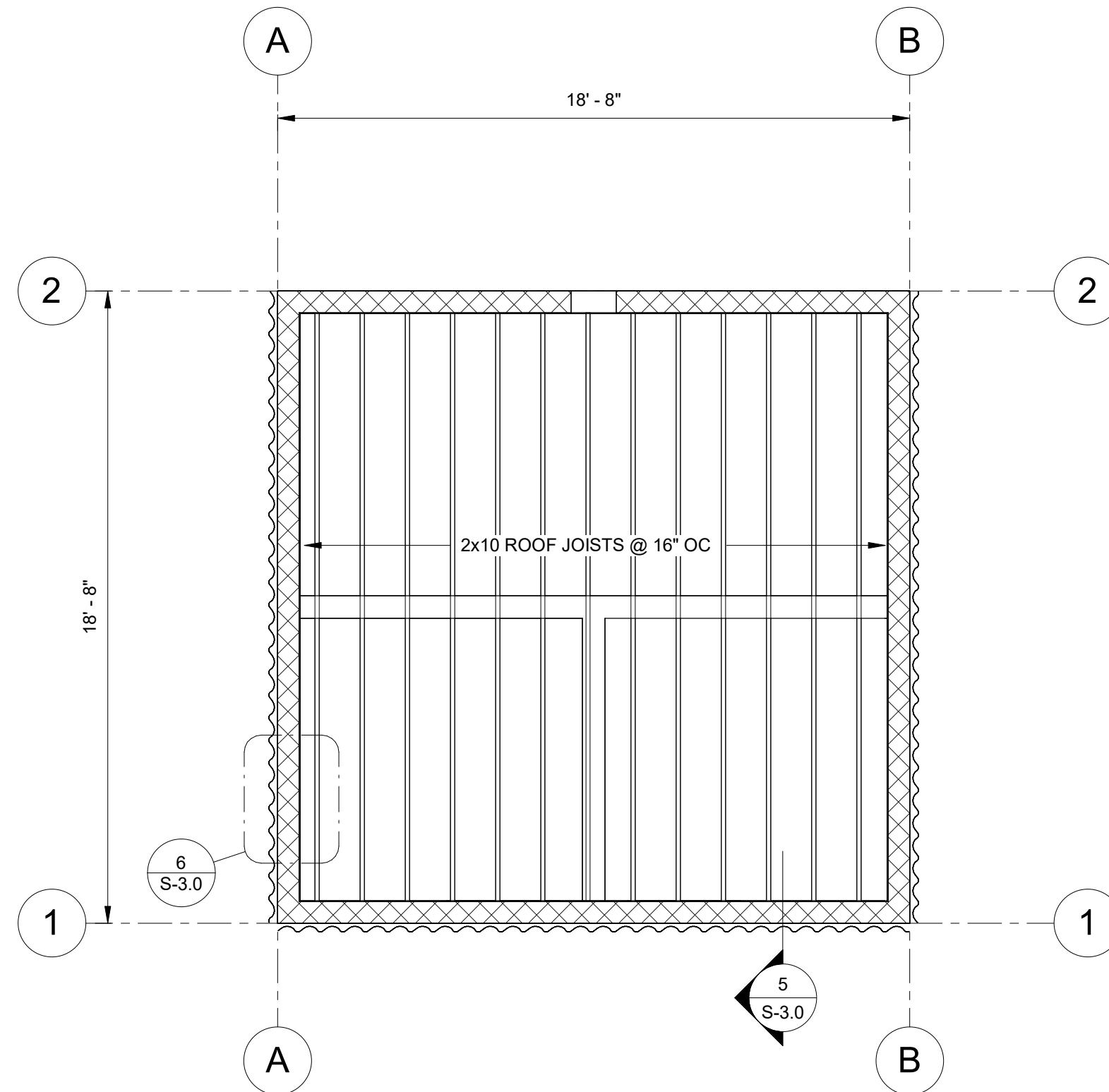
1/4" = 1'-0"

2 COMFORT STATION - HEADER FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING PLAN NOTES

1. UNLESS OTHERWISE NOTED ON PLAN, TOP OF WALL ELEVATION SHALL BE (+11' - 4") ABOVE REFERENCE FLOOR ELEVATION OF (+0' - 0"). TOW (+, -, -) ON PLAN DENOTES ALTERNATE TOP OF WALL ELEVATION.
2. ROOF FRAMING SHALL BE 2x10 SOUTHERN PINE OR SPRUCE-PINE-FIR NO. 2 GRADE OR BETTER.
3. TYPICAL ROOF SHEATHING SHALL BE 15/32" APA RATED SHEATHING EXPOSURE 1 WOOD STRUCTURAL PANELS. STAGGER END JOINTS AND PROVIDE 1/8" GAP AT PANEL EDGES. FASTEN PANELS WITH 8d NAILS @ 12" WITHIN THE PANEL FIELD AND WITH 8d NAILS @ 6" O/C AT ALL PANEL EDGES. INSTALL 2x4 BLOCKING IN PLAN ORIENTATION UNDER ALL UNSUPPORTED EDGES.
4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ROOF SLOPES AND EXTENTS, ETC.
5. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR BLOCKOUTS, DRAIN LINES, SLEEVES, OUTLET BOXES, CONDUIT, ETC. AND OTHER ITEMS TO BE COORDINATED WITH ROOF FRAMING.
6. REFER TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.



1 COMFORT STATION - ROOF FRAMING PLAN

1/4" = 1'-0"



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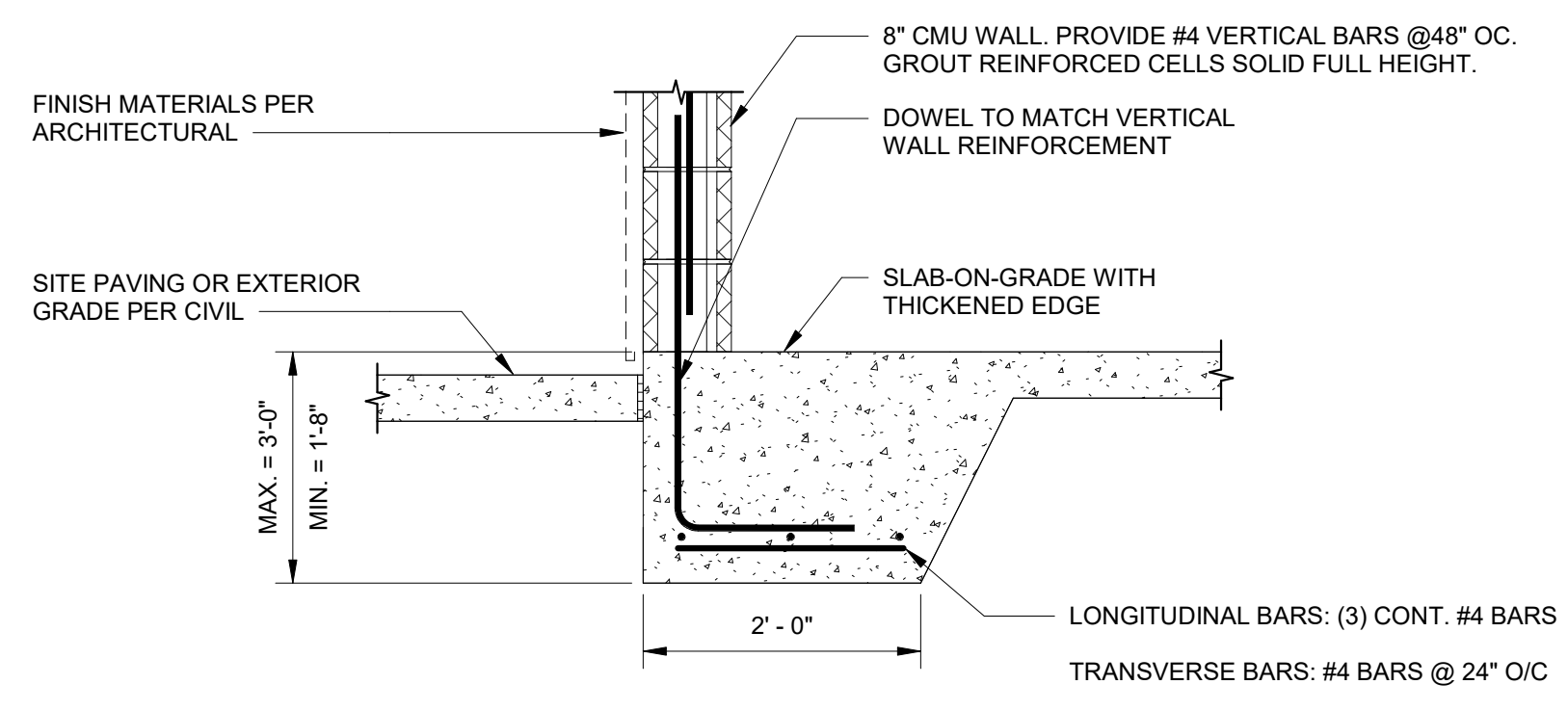
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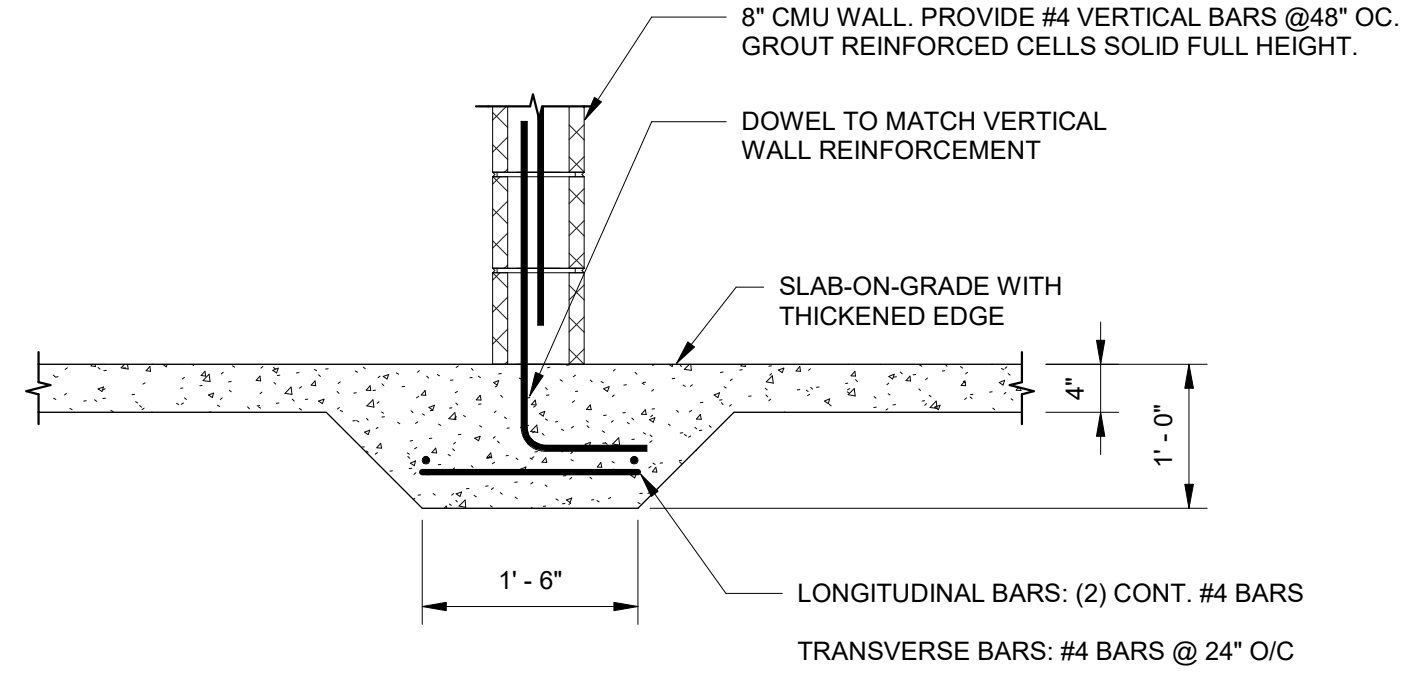
DATE 8.23.2024
PROJECT CODE 2406

sheet title:
**COMFORT STATION ROOF
FRAMING PLAN AND SECTIONS**

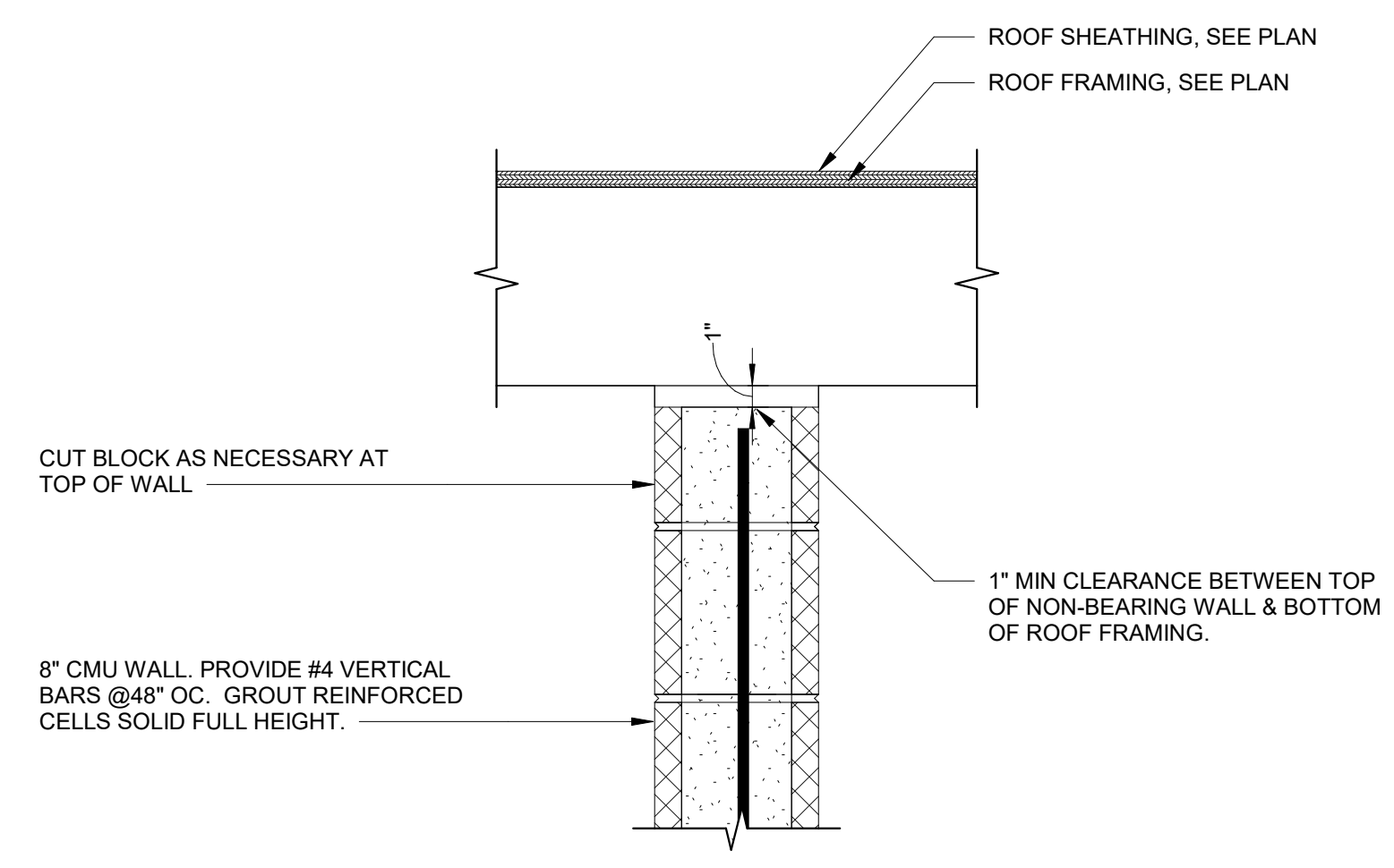
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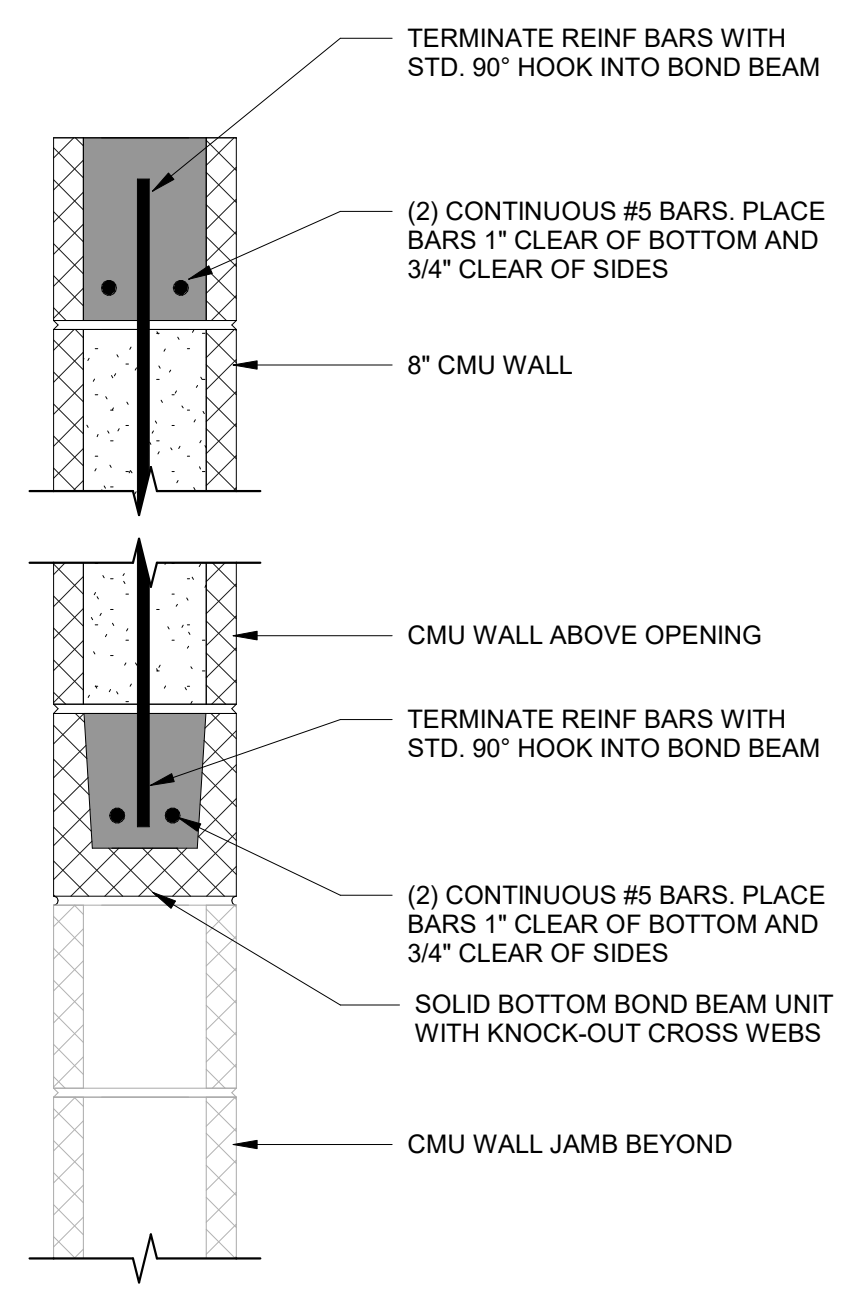
1 TS2.0 FOUNDATION DETAIL
3/4" = 1'-0"



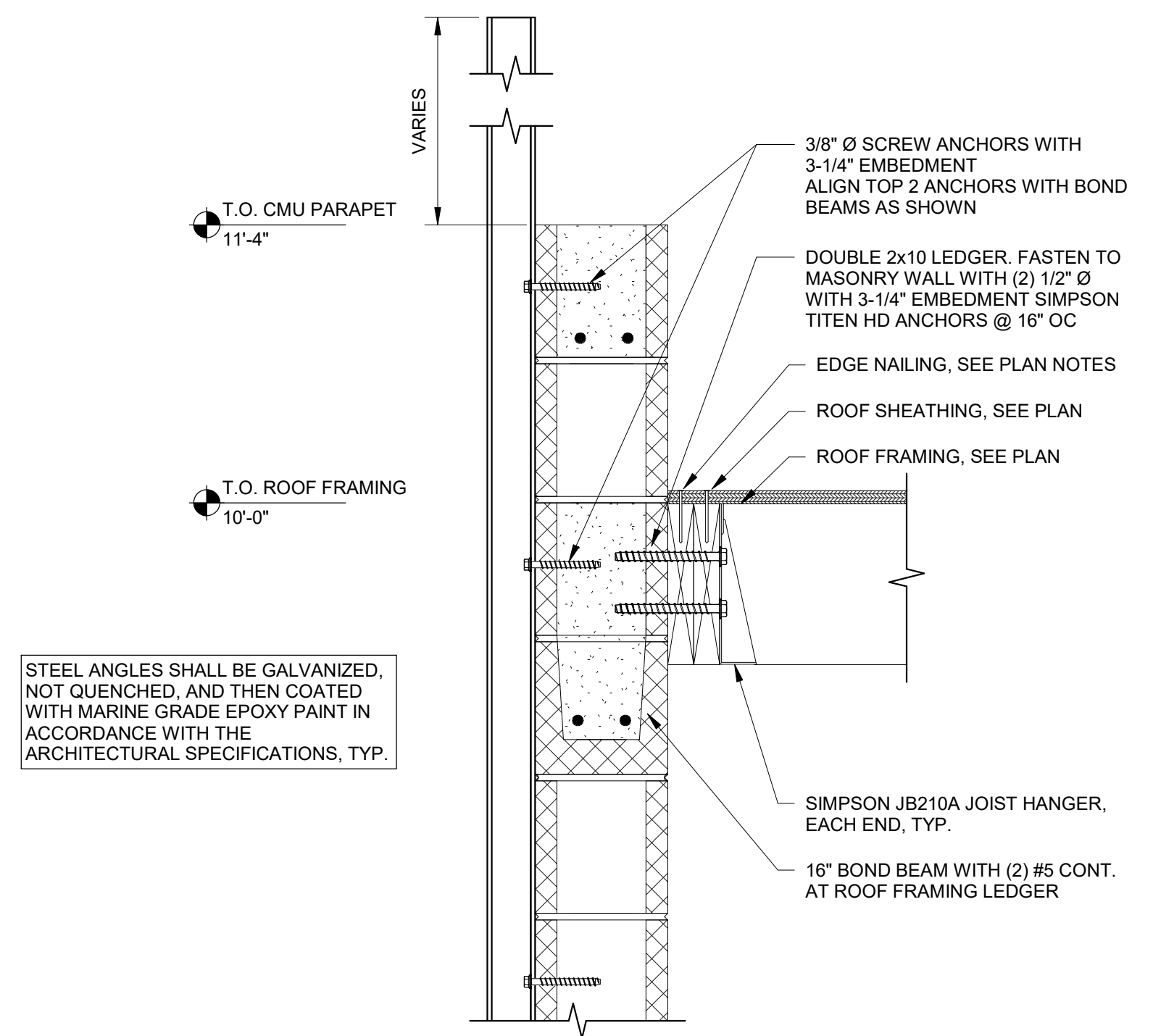
2 TS1.5 FOUNDATION DETAIL
3/4" = 1'-0"



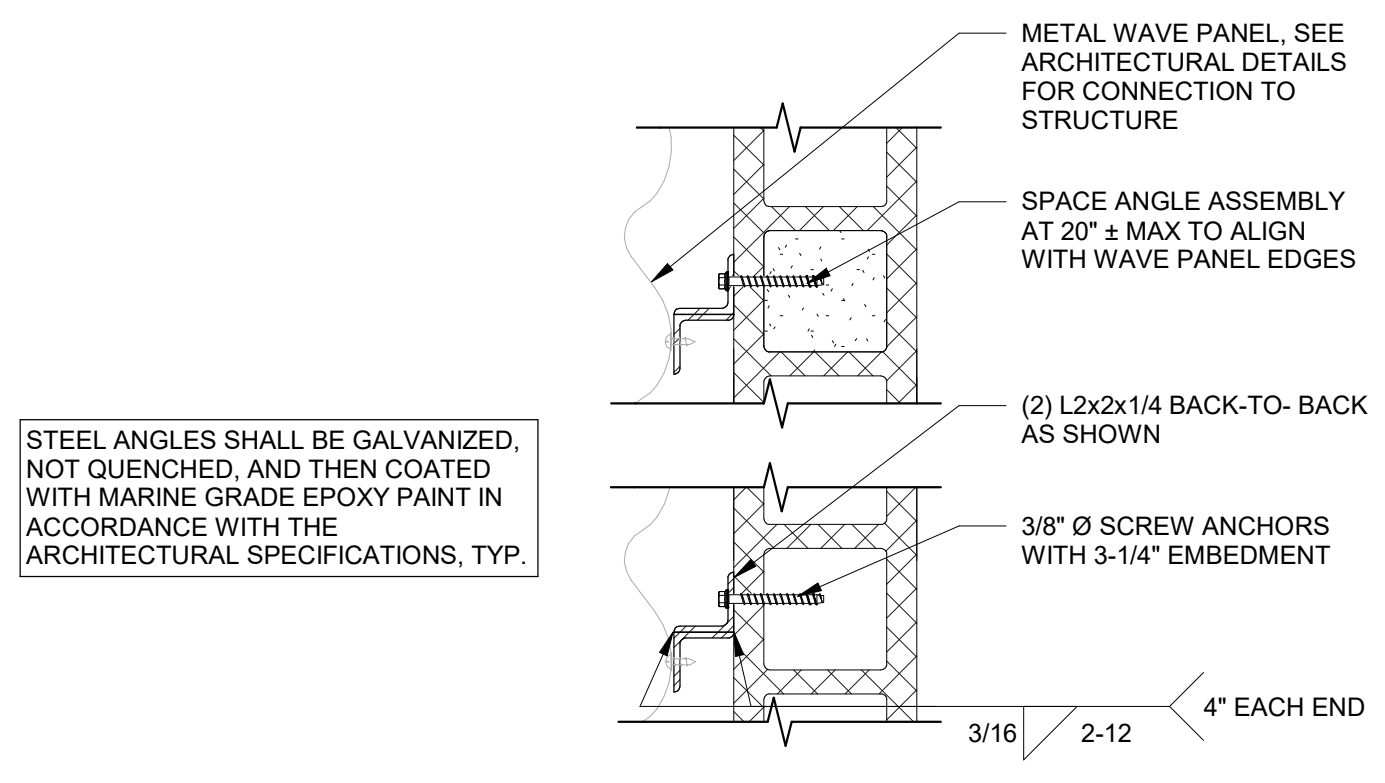
3 TOP OF CMU PARTITION WALL
1 1/2" = 1'-0"



4 CMU HEADER DETAIL
1 1/2" = 1'-0"



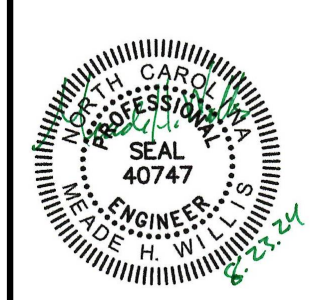
5 SECTION - TOP OF WALL
1 1/2" = 1'-0"



6 PLAN - METAL SCREEN SUPPORT ANGLE
1 1/2" = 1'-0"



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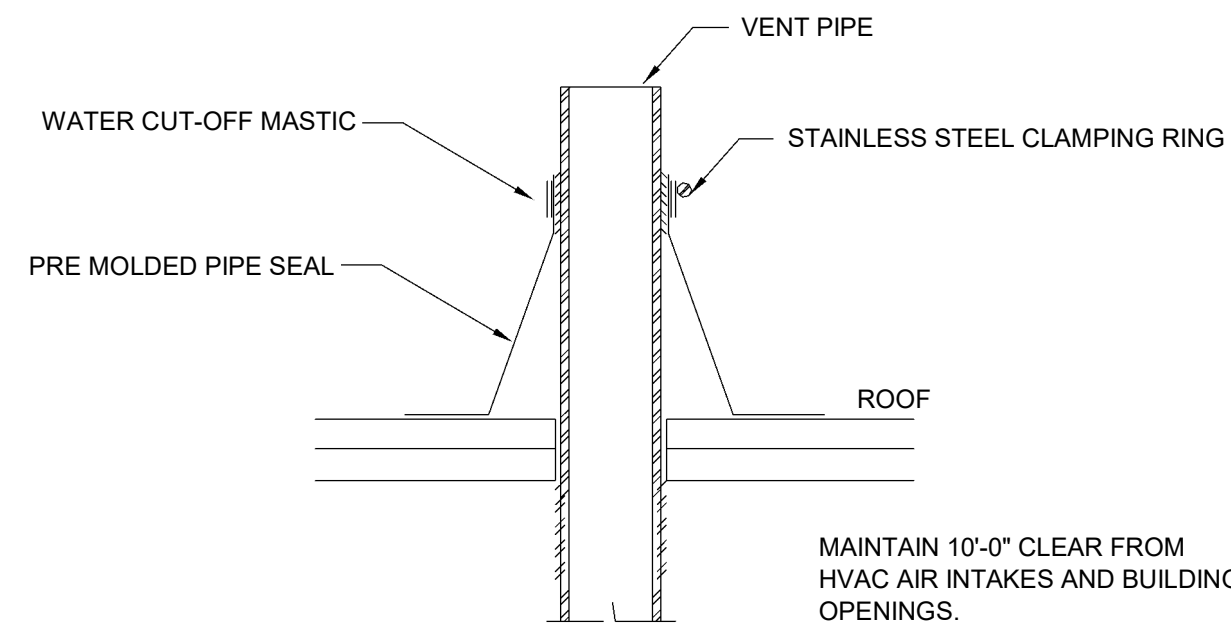
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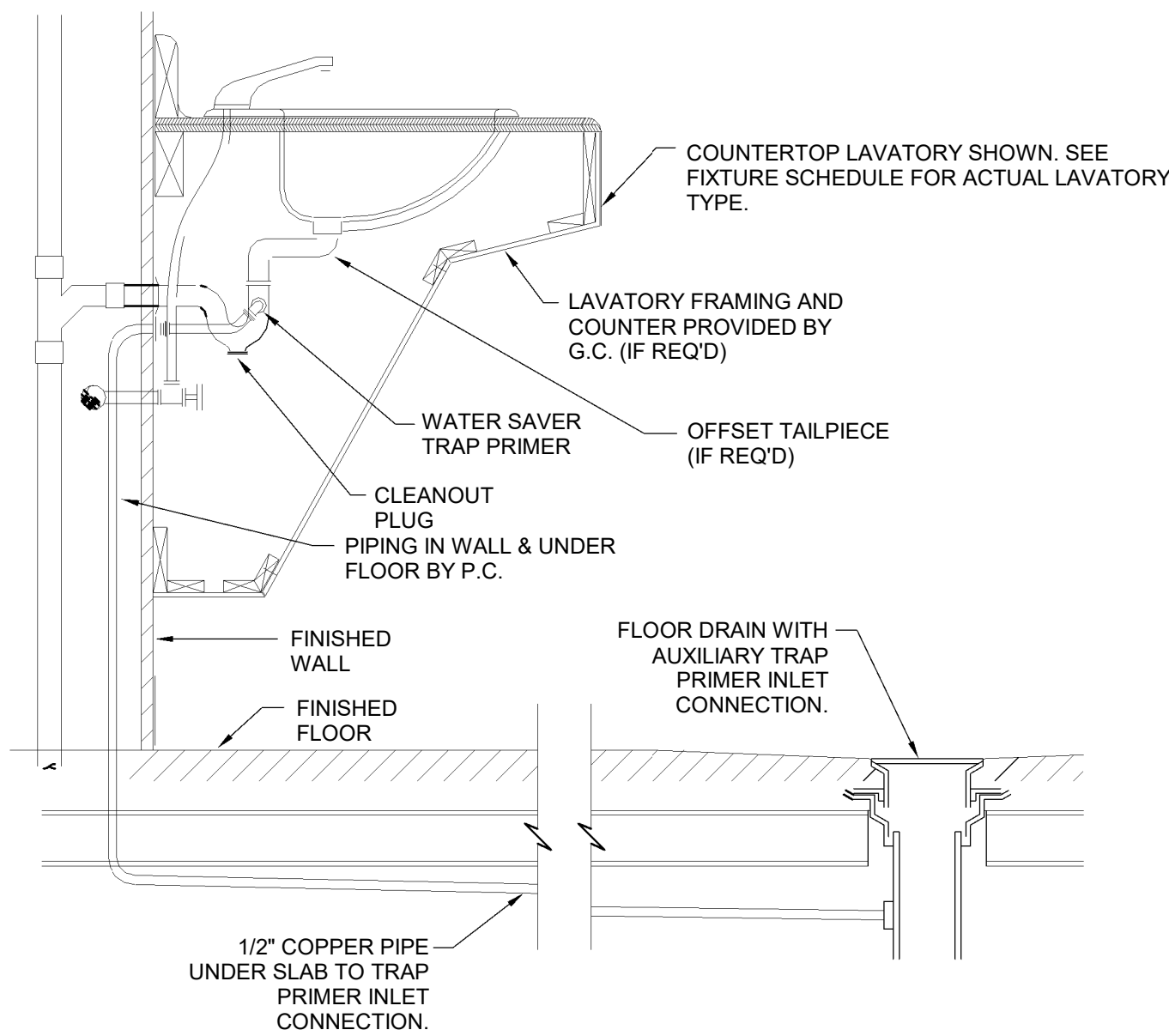
DATE 8.23.2024
PROJECT CODE 2406

sheet title:
FOUNDATION AND FRAMING
DETAILS

sheet no.:
S-3.0



1
P001 VENT THROUGH ROOF FLAT
NOT TO SCALE



2
P001 DETAIL - WATER SAVER P-TRAP
NOT TO SCALE

PLUMBING LEGEND

CW	-	COLD WATER
HW	-	HOT WATER
SS	-	SANITARY SEWER
V	-	VENT
WC	-	WATER CLOSET
L	-	LAVATORY
DF	-	DRINKING FOUNTAIN
WHA	-	WATER HAMMER ARRESTOR
FPHB	-	FREEZE PROOF HOSE BIBB
WH	-	ELECTRIC WATER HEATER
FD	-	FLOOR DRAIN
CO	-	CLEANOUT PLUG
GCO	-	EXTERIOR GRADE CLEANOUT
PRV	-	PRESSURE REDUCING VALVE
MXV	-	POINT OF USE MIXING VALVE
PC	-	PLUMBING CONTRACTOR
GC	-	GENERAL CONTRACTOR
MC	-	MECHANICAL CONTRACTOR
EC	-	ELECTRICAL CONTRACTOR
INV	-	PIPE INVERT
BFF	-	BELOW FINISHED FLOOR
BFG	-	BELOW FINISHED GRADE
AFF	-	ABOVE FINISHED FLOOR
AFG	-	ABOVE FINISHED GRADE
UG	-	UNDERGROUND
AG	-	ABOVE GROUND
BV	-	BALL VALVE
CV	-	CHECK VALVE

PLUMBING FIXTURE SCHEDULE

WC1	-	WALL MOUNTED MANUAL FLUSH VALVE WATER CLOSET WITH 1.6 GPF. ELONGATED BOWL WITH OPEN SEAT AND SELF SUSTAINING CHECK HINGES. VALVE TO HAVE SOLID RING PIPE SUPPORT. ADA HEIGHT OF 17" AFF TO RIM. CLOSET CARRIER RATED FOR 500 LBS LOADING. FIXTURE: ZURN #Z5615-BWL FLUSH VALVE: ZURN "ADJUF LUSH" #Z6000-WS1-YK CARRIER: ZURN #Z1201-NL4 (LEFT HANDED) & #Z1201-NR4 (RIGHT HANDED)
L1	-	WALL HUNG, VITREOUS CHINA LAVATORY WITH 4" CENTER SET, MANUAL METERING FAUCET WITH ADA COMPLIANT ROCKER HANDLES, FRONT OVERFLOW AND OPEN GRID STRAINER, EXPOSED ARM WALL SUPPORT WITH VANDAL RESISTANT TRIM. PROVIDE COMPLETE WITH TRAP AND SUPPLY SCALD GUARDS. FOR THE LAVATORY IN "UNISEX 01" PROVIDE WITH A WATER SAVER P-TRAP AND ROUTE DISCHARGE DOWN TO FLOOR DRAIN IN PLUMBING CHASE. PROVIDE A STANDARD TRAP ON THE LAVATORY IN "UNISEX 02". FIXTURE: ZURN #Z5344 FAUCET: ZURN #Z86500-XL-RKR-3M WALL SUPPORT: ZURN #Z1257-VP
DF1	-	BARRIER FREE, BI-LEVEL, PEDESTAL MOUNTED EXTERIOR DRINKING FOUNTAIN WITH 18ga, 304 STAINLESS STEEL BOWLS, 12ga HEAVY DUTY SCRATCH RESISTANT STAINLESS STEEL FINISH WITH RED POWDERCOAT. ADA COMPLIANT WITH CHILD HEIGHT SECONDARY BUBBLER WITH PUSH BUTTON ACTUATOR. PROVIDE COMPLETE WITH IN GROUND MOUNTING PLATE TO MOUNT TO CONCRETE SLAB. FIXTURE: MURDOCK #GRM46-CH30-IAP
WHA	-	PISTON TYPE WATER HAMMER ARRESTOR SIZED FOR FIXTURES BEING SERVED. FIXTURE: SIOUX CHIEF #650
FD1	-	3" OUTLET, ROUND FLOOR DRAIN WITH NICKEL BRONZE GRATE AND AND TRAP PRIMER INLET. FIXTURE: SIOUX CHIEF #822-3PNR
GCO	-	ADJUSTABLE CLEANOUT WITH BRONZE PLUG AND TOP, AND VANDAL PROOFSCREWS. FIXTURE: SIOUX CHIEF #834-4DNRV
MXV1	-	ASSE 1070 COMPLIANT POINT OF USE MIXING VALVE. SET OUTLET TEMP TO MAXIMUM 80 DEG F. FIXTURE: ZURN #ZW3870XL
FPHB	-	ASSE 1052 COMPLIANT FREEZE PROOF HOSE BIBB WITH TEE KEY OPERATION. NOTE THIS FIXTURE MUST HAVE THE ASSE 1052 RATING TO ALLOW FULL DRAINING EVEN WITH A HOSE ATTACHED. FIXTURE: WOODFORD 67
WH1	-	TANKLESS ELECTRIC WATER HEATER WITH 56 DEG TEMP RISE AT 0.5 GPM FLOW. SET OUTLET TEMPERATURE TO MAXIMUM 90 DEG F. 3.5kW @ 240V/1PH. PROVIDE COMPLETE WITH WALL MOUNTING KIT. 48 DEGREE RISE AT 0.5GPM. FIXTURE: EEMAX #SPX35T

PLUMBING SPECIFICATIONS

- PLUMBING CONTRACT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FEES, AND PERMITS REQUIRED FOR AND REASONABLY INCIDENTAL TO THE EXECUTION OF THE PLUMBING WORK.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE, PLUMBING, ENERGY, AND LOCAL BUILDING CODES.
- THE PLUMBING CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE PLUMBING PLANS, SCHEDULES AND DETAILS PRIOR TO INSTALLATION OF THE PLUMBING SYSTEM AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE OWNER, ARCHITECT AND/OR ENGINEER FOR RESOLUTION. FIELD VERIFY ALL EXISTING LINE SIZES AND LOCATION PRIOR TO BIDDING.
- IT WILL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSURE THAT ITEMS TO BE FURNISHED UNDER THIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS.
- THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS PIPING OR EQUIPMENT.
- MEASUREMENTS: BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, THE PLUMBING CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND LINE SIZES AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. HE SHALL ALSO BE RESPONSIBLE FOR VERIFYING THE INVERT ELEVATION OF THE EXISTING SANITARY PIPING PRIOR TO CONSTRUCTION.
- ALL MATERIALS USED SHALL BE NEW UNLESS OTHERWISE SHOWN OR CALLED FOR, AND SHALL BE FURNISHED IN ACCORDANCE WITH STANDARD SPECIFICATION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS, THE AMERICAN CONCRETE INSTITUTE, AND OTHER GUIDE SPECIFICATIONS.
- DIAGRAMS AND COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. THE DRAWINGS INDICATE OFFSETS REQUIRED, BUT BY NO MEANS INDICATE ALL SUCH SITUATIONS.
- INSPECTIONS: THE CONTRACTOR MUST AT ALL TIMES LEND ANY ASSISTANCE NECESSARY FOR ENGINEERS OR THEIR AUTHORIZED REPRESENTATIVE TO MAKE TESTS, INSPECTIONS, ETC.
- BLOWING OUT, CLEANING AND TESTING SYSTEMS: ALL PIPING AND EQUIPMENT SHALL BE BLOWN OUT UNDER PRESSURE AND CLEANED OF FOREIGN MATTER BEFORE THE SYSTEM IS PUT INTO OPERATION. EQUIPMENT SHALL NOT BE CONNECTED TO PIPING UNTIL IT HAS BEEN BLOWN OUT AND CLEANED. PRESSURE TEST ALL NEW WATER PIPING SYSTEM. ANY DEFECTS MADE EVIDENT BY THE TEST SHALL BE CORRECTED BY THIS CONTRACTOR WITHOUT EXTRA COST TO THE OWNER. DISINFECT WATER PIPING IN ACCORDANCE WITH N.C. PLUMBING CODE, SECTION 610.1.
- GUARANTEE: CONTRACTOR SHALL GUARANTEE HIS MATERIAL, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS AFTER DATE OF FINAL ACCEPTANCE BY ENGINEERS AND OWNERS (PARTS AND LABOR). ALL GUARANTEE FAILURE SHALL BE CORRECTED OR REPLACED BY CONTRACTOR AS SOON AS POSSIBLE AFTER NOTIFICATION OF SUCH FAILURE.
- SANITARY WASTE & VENT PIPING: PVC PIPE AND FITTINGS CONFORMING TO ASTM D-2665. NO FOAM CORE PVC PIPE WILL BE ACCEPTABLE.
- ABOVE GROUND WATER PIPING: TYPE L HARD COPPER WATER PIPING CONFORMING TO ASTM-B-88. WROUGHT-COPPER FITTINGS CONFORMING TO ASTM-B-16.23.
- UNDERGROUND WATER PIPING: TYPE K COPPER, ROLLED COPPER WITH NO JOINTS, WRAPPED IN 1/2" PROTECTIVE ARMAFLEX.
- INSULATION: PROVIDE INSULATION OF ALL NEW PIPING AS SHOWN. ALL INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS BY AN APPROVED INSULATION SUBCONTRACTOR. TEST ALL PIPING PRIOR TO COVERINGS. PIPE INSULATION WITHIN THE PLUMBING CHASE SHALL BE 1" ARMAFLEX. PIPING TO LAVATORIES WITHIN THE RESTROOM SHALL BE 1-1/2" ARMAFLEX MEETING AN R-10 RATING AT 75 DEG F.
- PROVIDE BALL VALVES TO ISOLATE ALL GROUPS OF FIXTURES AND AS SHOWN ON THE PLANS TO FACILITATE FUTURE SERVICING.
- PROVIDE DIELECTRIC UNIONS OR FLANGES TO ISOLATE DISSIMILAR METALS.
- HORIZONTAL DRAINAGE PIPING 3" AND LARGER SHALL HAVE A MINIMUM FALL OF 1/8" PER FOOT AND PIPING 2" AND SMALLER SHALL HAVE A MINIMUM FALL OF 1/4" PER FOOT. FIELD VERIFY INVERTS PRIOR TO CONSTRUCTION.
- CLEANOUTS SHALL BE PROVIDED IN ALL SANITARY PIPING AS SHOWN OR INDICATED BY THE A.H.I.
- WCO SHALL HAVE STAINLESS STEEL COVERS.
- ALL VENT PIPING SHALL SLOPE UP TO THE DISCHARGE POINT.
- MAINTAIN ALL FIRE RATINGS. SUBMIT UL ASSEMBLY TO LOCAL FIRE MARSHAL FOR APPROVAL.
- G.C. SHALL BE RESPONSIBLE FOR ALL FLOOR SLAB POURING, TRENCHING AND BACKFILL BY P.C.

SEWER CAMERA AND SMOKE TEST

AFTER ALL NEW UNDERGROUND PIPING AND FIXTURES ARE INSTALLED, THE PLUMBING CONTRACTOR SHALL PERFORM A FULL UNDERGROUND CAMERA OF THE NEW PIPING.

THE PLUMBING CONTRACTOR SHALL FLUSH THE SYSTEM WITH WATER AND THEN CAMERA THE LINE TO IDENTIFY ANY CONSTRUCTION DEBRIS STUCK IN THE PIPES OR LOW SPOTS IN THE PIPING. ALL DEFICIENCIES SHOULD BE ADDRESSED TO ENSURE A FULLY FUNCTIONING SYSTEM.

THE SEWER CAMERA SHALL HAVE RECORDED VIDEO CAPABILITY. THIS VIDEO FILES SHOULD BE SHARED WITH THE ENGINEER AND THE COUNTY REPRESENTATIVE.

A SMOKE VENT TEST SHOULD ALSO BE PERFORMED TO MAKE SURE NO OPEN SEWER PIPES REMAIN INSIDE THE BUILDING.

BACKFLOW PREVENTER & PRV NOTES

A NEW RP2 TYPE BACKFLOW PREVENTER SHALL BE PROVIDED AND INSTALLED BY THE G.C. UNDER THE CIVIL SCOPE OF WORK. REFER TO CIVIL SITE PLANS.

P.C. TO INSTALL LINE SIZED PRV RATED FOR 75psi WHERE PIPE ENTERS THE BUILDING INSIDE THE PLUMBING CHASE. THIS WILL BE EXPOSED IN THE SPACE.

FREEZE PROTECTION NOTES

THE PLUMBING CHASE IS HEATED WITH AN ELECTRIC UNIT HEATER TO MAINTAIN TEMPERATURES ABOVE FREEZING. THE RESTROOMS DO NOT HAVE ANY DIRECT HEAT.

ALL PIPING BELOW THE LAVATORIES SHALL BE WRAPPED WITH MINIMUM 1-1/2" INSULATION RATED FOR R-10 @ 75 DEG F. P.C. TO MINIMIZE PIPING STUB OUTS IN RESTROOMS AND ALL MIXING VALVES SHALL BE LOCATED IN THE PLUMBING CHASE.

HOT WATER RE-CIRCULATION NOTES

A HOT WATER RE-CIRCULATION LOOP AND PUMP IS NOT REQUIRED IN THIS PROJECT AS THE DEVELOPED LENGTH OF HOT WATER PIPING FROM THE WATER HEATER TO THE FURTHEST FIXTURE (LAVATORY IN WOMENS 002) DOES NOT EXCEED 50 FT, PER NPCC 607.2

FIXTURE RUN OUT SIZES

CW	=	COLD WATER
HW	=	HOT WATER (TEMP)
THE FOLLOWING FIXTURES SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.		
WC1	-	1" CW
L1	-	1/2" CW & 1/2"HW(80)
DF1	-	1/2" CW
WH1	-	1/2" CW & 1/2" HW(90)
FPHB	-	1/2" CW
MXV1	-	1/2" CW & 1/2" HW(90) & 1/2"HW(80)



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CES LICENSE NUMBER (NC)	F-0238
CES LICENSE NUMBER (VA)	11059277
PROJECT NO.	4447
DRAWN	DMG
APPROVED	CRS

SEAL
15886
08/23/2024
ENGINEER
CHRISTOPHER R. STROUPE, III

THESE DRAWINGS, PROVIDED BY CONSULTANT ENGINEERING SERVICE, ARE INTENDED TO BE VIEWED AND PRINTED IN COLOR. COLOR IS USED TO DISTINGUISH BETWEEN DIFFERENT SYSTEMS AND TO PROVIDE DRAWING CLARITY.

PATRIOTS PARK RESTROOM FACILITY
PONDEROSA ROAD
CAMERON, NC

CONSTRUCTION DOCUMENTS

Revisions		
No.	Description	Date

date: 08/23/2024
commission: 24-140

sheet title:
PLUMBING COVER SHEET

sheet no.:

P001

PLUMBING SHEET INDEX	
P001	PLUMBING COVER SHEET
P101	PLUMBING PLAN



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PATRIOTS PARK RESTROOM FACILITY

PONDEROSA ROAD
CAMERON, NC

CONSTRUCTION DOCUMENTS

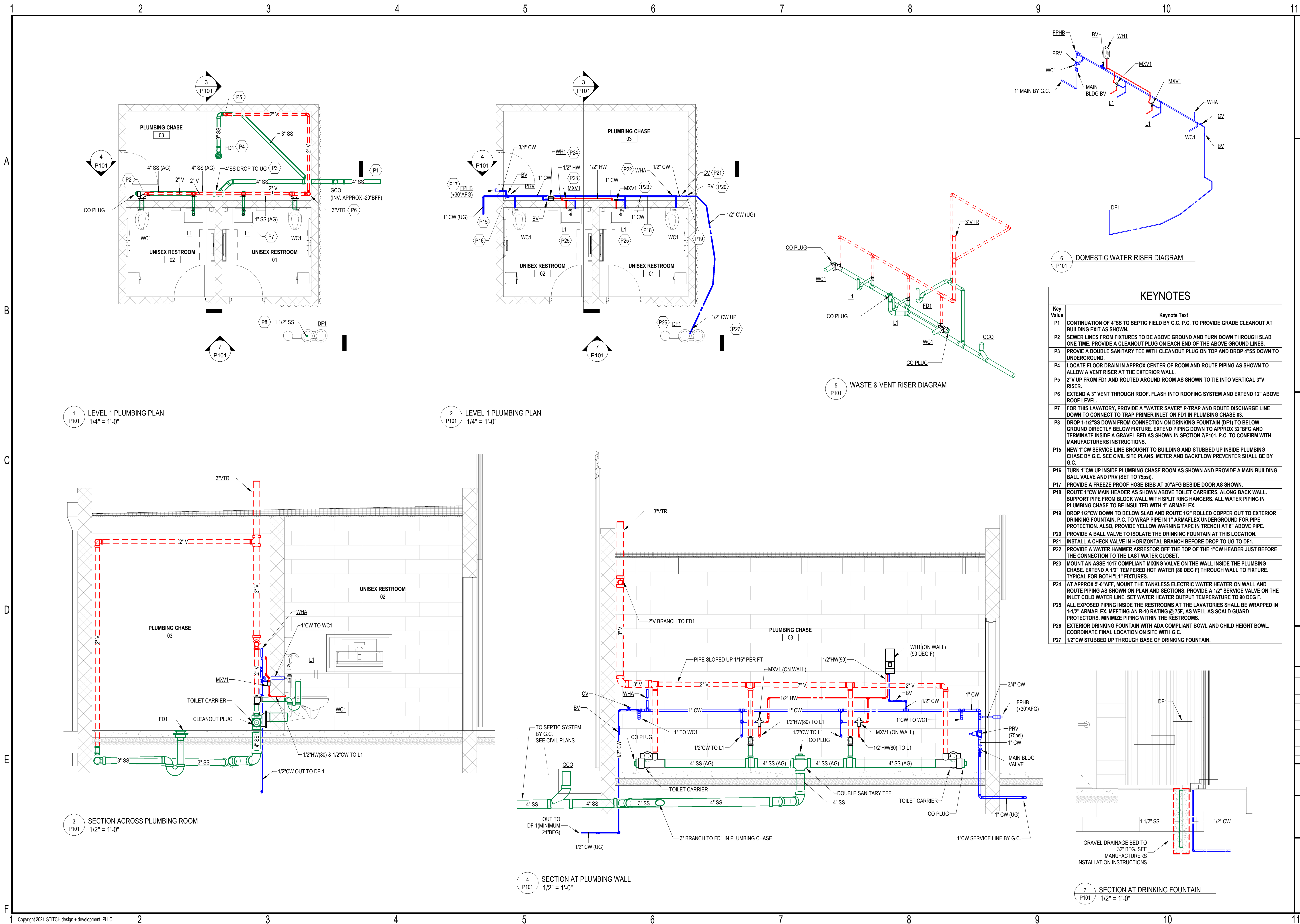
Revisions		
No.	Description	Date

date: 08/23/2024
 commission: 24-140

sheet title: **PLUMBING PLAN**

sheet no.:

P101



6 DOMESTIC WATER RISER DIAGRAM

KEYNOTES

Key Value	Keynote Text
P1	CONTINUATION OF 4"SS TO SEPTIC FIELD BY G.C. P.C. TO PROVIDE GRADE CLEANOUT AT BUILDING EXIT AS SHOWN.
P2	SEWER LINES FROM FIXTURES TO BE ABOVE GROUND AND TURN DOWN THROUGH SLAB ONE TIME. PROVIDE A CLEANOUT PLUG ON EACH END OF THE ABOVE GROUND LINES.
P3	PROVIE A DOUBLE SANITARY TEE WITH CLEANOUT PLUG ON TOP AND DROP 4"SS DOWN TO UNDERGROUND.
P4	LOCATE FLOOR DRAIN IN APPROX CENTER OF ROOM AND ROUTE PIPING AS SHOWN TO ALLOW A VENT RISER AT THE EXTERIOR WALL.
P5	2"V UP FROM FD1 AND ROUTED AROUND ROOM AS SHOWN TO TIE INTO VERTICAL 3"V RISER.
P6	EXTEND A 3" VENT THROUGH ROOF. FLASH INTO ROOFING SYSTEM AND EXTEND 12" ABOVE ROOF LEVEL.
P7	FOR THIS LAVATORY, PROVIDE A "WATER SAVER" P-TRAP AND ROUTE DISCHARGE LINE DOWN TO CONNECT TO TRAP PRIMER INLET ON FD1 IN PLUMBING CHASE 03.
P8	DROP 1-1/2"SS DOWN FROM CONNECTION ON DRINKING FOUNTAIN (DF1) TO BELOW GROUND DIRECTLY BELOW FIXTURE. EXTEND PIPING DOWN TO APPROX 32"BFG AND TERMINATE INSIDE A GRAVEL BED AS SHOWN IN SECTION 7/P101. P.C. TO CONFIRM WITH MANUFACTURERS INSTRUCTIONS.
P15	NEW 1" CW SERVICE LINE BROUGHT TO BUILDING AND STUBBED UP INSIDE PLUMBING CHASE BY G.C. SEE CIVIL SITE PLANS. METER AND BACKFLOW PREVENTER SHALL BE BY G.C.
P16	TURN 1" CW UP INSIDE PLUMBING CHASE ROOM AS SHOWN AND PROVIDE A MAIN BUILDING BALL VALVE AND PRV (SET TO 75psi).
P17	PROVIDE A FREEZE PROOF HOSE BIBB AT 30" AFG BESIDE DOOR AS SHOWN.
P18	ROUTE 1" CW MAIN HEADER AS SHOWN ABOVE TOILET CARRIERS, ALONG BACK WALL. SUPPORT PIPE FROM BLOCK WALL WITH SPLIT RING HANGERS. ALL WATER PIPING IN PLUMBING CHASE TO BE INSULATED WITH 1" ARMAFLEX.
P19	DROP 1/2" CW DOWN TO BELOW SLAB AND ROUTE 1/2" ROLLED COPPER OUT TO EXTERIOR DRINKING FOUNTAIN. P.C. TO WRAP PIPE IN 1" ARMAFLEX UNDERGROUND FOR PIPE PROTECTION. ALSO, PROVIDE YELLOW WARNING TAPE IN TRENCH AT 6" ABOVE PIPE.
P20	PROVIDE A BALL VALVE TO ISOLATE THE DRINKING FOUNTAIN AT THIS LOCATION.
P21	INSTALL A CHECK VALVE IN HORIZONTAL BRANCH BEFORE DROP TO UG TO DF1.
P22	PROVIDE A WATER HAMMER ARRESTOR OFF THE TOP OF THE 1" CW HEADER JUST BEFORE THE CONNECTION TO THE LAST WATER CLOSET.
P23	MOUNT AN ASSE 1017 COMPLIANT MIXING VALVE ON THE WALL INSIDE THE PLUMBING CHASE. EXTEND A 1/2" TEMPERED HOT WATER (80 DEG F) THROUGH WALL TO FIXTURE. TYPICAL FOR BOTH "L" FIXTURES.
P24	AT APPROX 5'-0" AFF. MOUNT THE TANKLESS ELECTRIC WATER HEATER ON WALL AND ROUTE PIPING AS SHOWN ON PLAN AND SECTIONS. PROVIDE A 1/2" SERVICE VALVE ON THE INLET COLD WATER LINE. SET WATER HEATER OUTPUT TEMPERATURE TO 90 DEG F.
P25	ALL EXPOSED PIPING INSIDE THE RESTROOMS AT THE LAVATORIES SHALL BE WRAPPED IN 1-1/2" ARMAFLEX, MEETING AN R-10 RATING @ 75F. AS WELL AS SCALD GUARD PROTECTORS. MINIMIZE PIPING WITHIN THE RESTROOMS.
P26	EXTERIOR DRINKING FOUNTAIN WITH ADA COMPLIANT BOWL AND CHILD HEIGHT BOWL. COORDINATE FINAL LOCATION ON SITE WITH G.C.
P27	1/2" CW STUBBED UP THROUGH BASE OF DRINKING FOUNTAIN.

7 SECTION AT DRINKING FOUNTAIN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

Prescriptive Energy Cost Budget

Climate Zone 3A (MOORE COUNTY)

Exterior design conditions (FAYETTEVILLE RGNL G NC, USA)
 winter dry bulb 22.2°F
 summer dry bulb 96.5°F
 summer wet bulb 76.3°F

Interior design conditions
 winter dry bulb 40°F
 summer dry bulb N/A
 relative humidity N/A

Building heating load 5.7 MBH (PLUMBING CHASE ONLY)

Building cooling load N/A (NO COOLING OF THE SPACE)

Mechanical Spacing Conditioning System

Unitary
 description of unit
 heating efficiency
 cooling efficiency
 heat output of unit
 cooling output of unit
 SEE EQUIPMENT SCHEDULES

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 drawings and specifications.

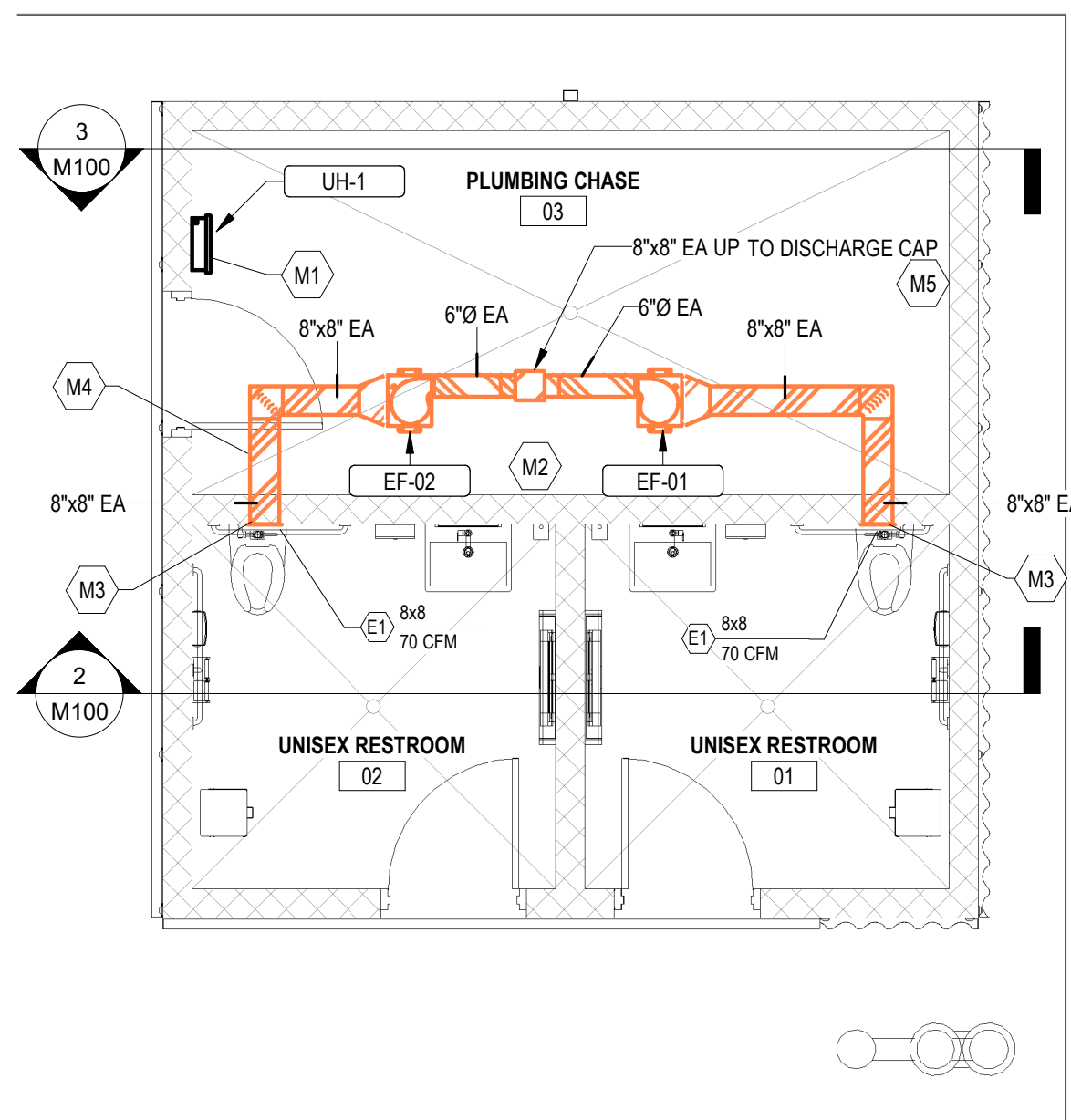
Equipment schedules with motors (mechanical systems)

description of unit
 motor power
 number of phases
 SEE EQUIPMENT SCHEDULES

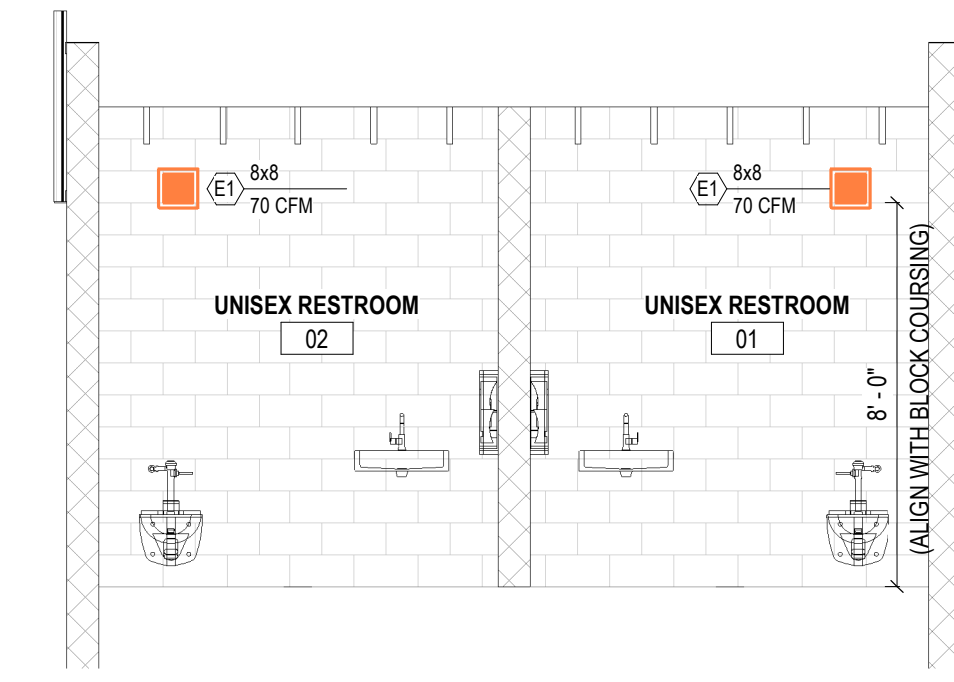
DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the International Building code, Volume X-Energy.

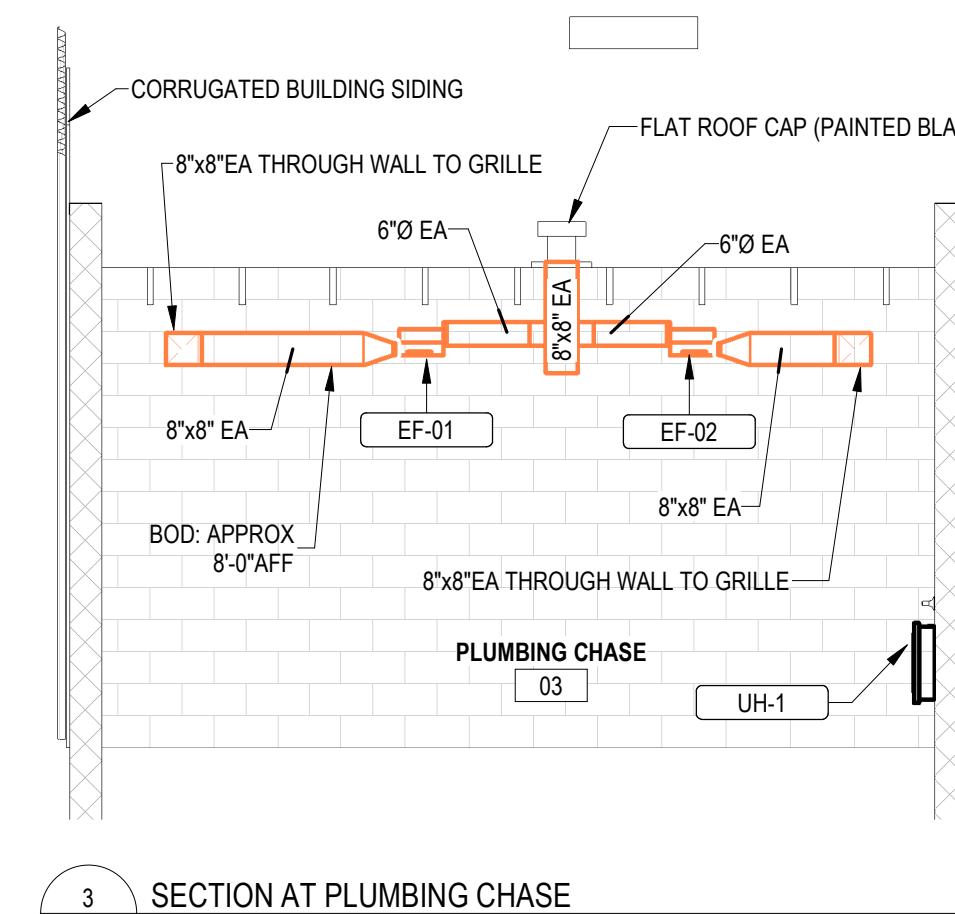
SIGNED: Christopher R. Stroupe
 NAME: Christopher R. Stroupe, PE
 TITLE: Engineer



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



2 SECTION IN RESTROOMS
1/4" = 1'-0"



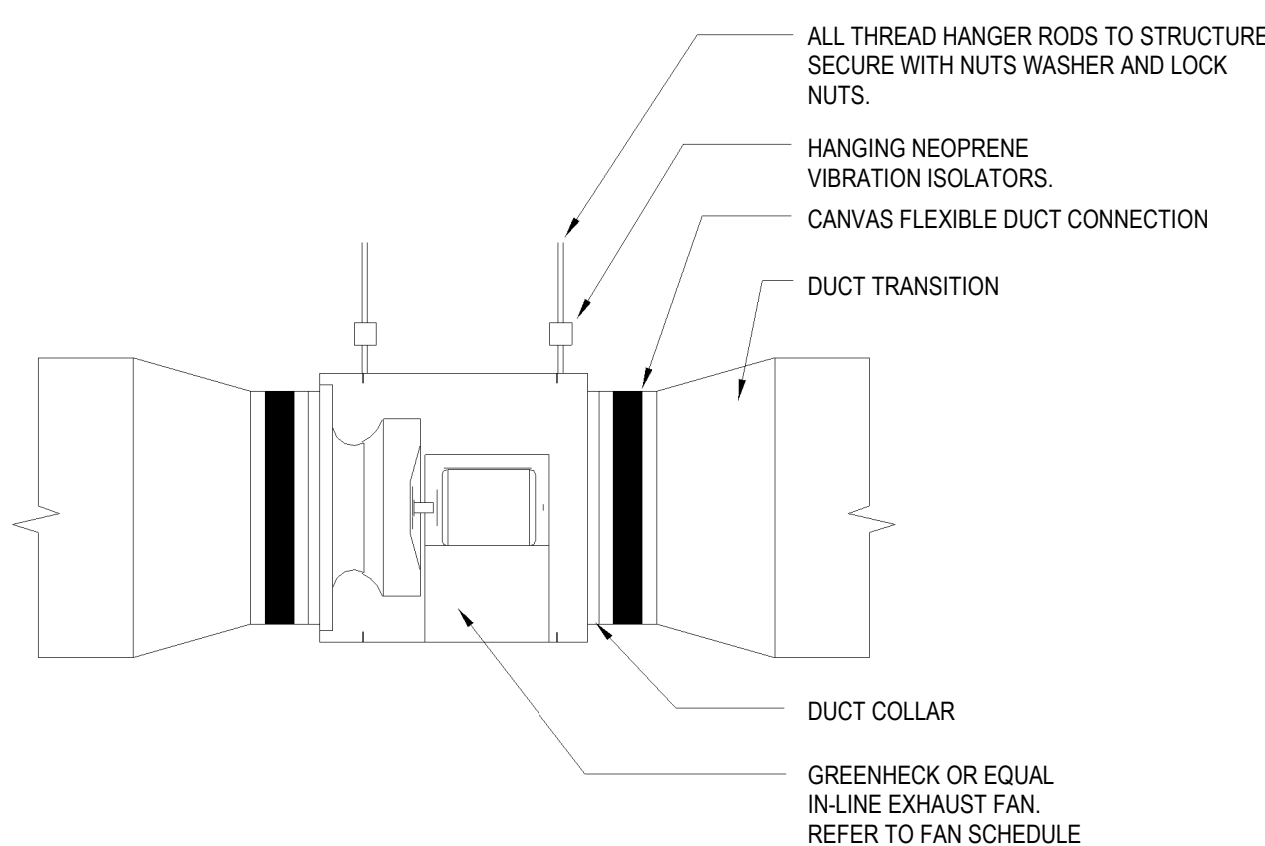
3 SECTION AT PLUMBING CHASE
1/4" = 1'-0"

KEYNOTES

Key Value	Keynote Text
M1	ELECTRIC UNIT HEATER MOUNTED IN SURFACE WALL BOX AS SHOWN BESIDE THE DOOR. THIS UNIT SHALL HAVE AN INTEGRAL THERMOSTAT SET FOR 40 DEG F (ADJ). MOUNT WITH BOTTOM AT 18" AFF.
M2	INLINE RESTROOM EXHAUST FAN INSTALLED AS HIGH AS POSSIBLE (APPROX 7'-10" AFF) IN SPACE. SECURE FAN FROM HANGERS FROM STRUCTURE. COORDINATE WITH E.C. TO WIRE FAN TO CORRESPONDING RESTROOM LIGHT CONTROL. PROVIDE COMPLETE WITH BACKDRAFT DAMPER.
M3	8x8 EXHAUST GRILLE IN WALL. M.C. TO INSTALL AS HIGH AS POSSIBLE WITH THE BOTTOM OF THE DUCT THROUGH WALL AT A BLOCK COURSING TO MINIMIZE CUTTING. GRILLE TO BE INSTALLED WITH PRIMER FINISH FOR FIELD PAINTING.
M4	EXTEND 8x8 EXHAUST DUCT THROUGH BLOCK WALL FROM GRILLE AND INTO EXHAUST FAN. TYPICAL FOR BOTH RESTROOMS.
M5	10x10 EA UP TO ROOF CAP ON ROOF ABOVE. CAP TO BE BLACK IN COLOR AND SIMILAR TO "GREENHECK RCC-7". FLASH INTO ROOFING SYSTEM.

MECHANICAL SPECIFICATIONS

- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LOCAL STATE BUILDING CODE MECHANICAL, ENERGY, AND LOCAL CODES.
- THE WORD "PROVIDE" AS USED ON THESE DRAWINGS AND IN THESE SPECIFICATIONS SHALL MEAN TO FURNISH AND INSTALL.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS EQUIPMENT, PIPING OR CONTROL WIRING.
- MEASUREMENTS: BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE SAME.
- STANDARDS OF MATERIALS: ALL MATERIALS USED SHALL BE NEW UNLESS OTHERWISE SHOWN OR CALLED FOR, AND SHALL BE FURNISHED IN ACCORDANCE WITH STANDARD SPECIFICATION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS, ASHRAE, AND OTHER GUIDE SPECIFICATIONS.
- DIAGRAMS AND COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. THE DRAWINGS INDICATE OFFSETS REQUIRED, BUT BY NO MEANS INDICATE ALL SUCH SITUATIONS.
- DUCT INSULATION: NOT REQUIRED ON EXHAUST DUCT.
- MAINTAIN ALL FIRE RATINGS WHERE APPLICABLE. SUBMIT UL ASSEMBLY TO LOCAL FIRE MARSHAL FOR APPROVAL.
- DO NOT SCALE THESE DRAWINGS.
- ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE. ALL SERVICE CLEARANCES AS SHOWN IN THE MANUFACTURER'S INSTRUCTIONS MUST BE MAINTAINED.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ALL BUILDING PENETRATIONS.
- A TEST AND BALANCE SHALL BE PERFORMED TO VERIFY THAT THE EXHAUST FAN IS OPERATING AT THE REQUIRED 70 CFM FLOW RATE.
- MAKE UP AIR FOR THE EXHAUST FAN IS PROVIDED VIA DOOR LOUVERS, PROVIDED BY G.C.



NOTES:

- ALL DUCT CONNECTIONS SHALL BE MADE AND SEALED IN ACCORDANCE WITH MECHANICAL CODE AND MANUFACTURER'S INSTRUCTIONS.
- FAN SHALL BEAR UL LABEL.
- FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.

NOTES CONTINUED:

- FACTORY MOTOR GUARD AS REQUIRED FOR BELT DRIVE UNITS.
- TWO ACCESS DOORS FOR SERVICEABILITY OF FAN AND MOTOR.
- FLEXIBLE CONNECTION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SHALL NOT BE USED AS A TRANSITION, OFFSET, OR OTHER SIMILAR FITTING.

4 INLINE EXHAUST FAN
NOT TO SCALE

EXHAUST FAN SCHEDULE

PLAN TAG	MANUFACTURER	MODEL	TYPE	SERVING	CFM	ESP	RPM	HP OR WATTS	VOLTAGE	REMARKS
EF-01	LOREN COOK CO.	GN-128	INLINE	UNISEX 01	70	0.15	750	27 W	115/1	1,2,3,4,5,6
EF-02	LOREN COOK CO.	GN-128	INLINE	UNISEX 02	70	0.15	750	27 W	115/1	1,2,3,4,5,6

- STANDARD 1 YEAR WARRANTY
- FAN BACKDRAFT DAMPER
- DUCTED INLET AND OUTLET
- NEMA 1 TOGGLE SWITCH
- SWITCHED WITH LIGHT
- HANGING KIT WITH VIBRATION ISOLATION

ELECTRIC UNIT HEATER SCHEDULE

PLAN ID	MANUFACTURER	MODEL	KW	VOLTAGE	AMPS	SERVING	CONTROL	SETPPOINT	REMARKS
UH-1	MARKEL	H3327TD-RP	4.8	240/1	20	PLUMBING CHASE 03	BUILT IN	40 F	1,2,3

- HEATER SHALL BE CONTROLLED BY A BUILT IN THERMOSTAT
- SURFACE MOUNTED BOX
- WHITE FINISH

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN ID	MANUF	MODEL	SERVICE	FACE	NECK	REMARKS
E1	PRICE	98	EXHAUST	10x10	8x8	1,2,3,4

- PRIMER FINISH
- WALL MOUNTED
- 45 DEGREE DEFLECTION BLADES
- 1/2" BLADE SPACING

GRILLE & DIFFUSER IMAGES

MODEL	IMAGE
98	

SEQUENCE OF OPERATION

- EXHAUST FANS (EF-01 & EF-02):
 THESE FANS SHALL BE TIED TO THE LIGHT MOTION SENSOR IN EACH CORRESPONDING RESTROOM AND SHALL TURN ON AND OFF WITH THE LIGHT MOTION SENSOR. COORDINATE WITH E.C. TO THE FANS TO THE LIGHT CIRCUIT.
- UNIT HEATER (UH-1):
 THIS UNIT HEATER SHALL HAVE AN INTEGRAL THERMOSTAT. THE THERMOSTAT SHALL BE SET AT 40 DEG F (ADJ). THE UNIT SHALL TURN ON AND OFF AS NECESSARY BASED ON SPACE TEMPERATURE TO MAINTAIN SETPOINT.

MECHANICAL LEGEND

EF	-	EXHAUST FAN
EA	-	EXHAUST AIR
UH	-	ELECTRIC UNIT HEATER
CFM	-	CUBIC FEET PER MINUTE
KW	-	KILOWATTS
12x12	-	RECTANGULAR DUCT NOTATION

MECHANICAL SHEET INDEX

M100 MECHANICAL PLAN



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CES LICENSE NUMBER (NC)	F-0238
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DRAWN	DMG
APPROVED	CRS

SEAL
 15886
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 ENGINEER
 CHRISTOPHER R. STROUPE, III

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 PONDEROSA ROAD
 CAMERON, NC

CONSTRUCTION DOCUMENTS

Revisions		
No.	Description	Date

date: 08/23/2024
 commission: 24-140

sheet title:
MECHANICAL PLAN

sheet no.:
M100

A

B

C

D

E

F

Electrical Abbreviations	
1P 1 Pole (2P, 3P, 4P, ETC.)	MCB Main Circuit Breaker
A, Amp Ampere	MCC Motor Control Center
AC Above Counter	MDC Main Distribution Center
ACLG Above Ceiling	MDF Main Distribution Panel
ADO Automatic Door Opener	MFR Manufacturer
AF Amp Frame	MFS Main Fused Disconnect Switch
AFF Above Finished Floor	MH Manhole
AFG Above Finished Grade	MIC Microphone
AFI Arc Fault Circuit Interrupter	MIN Minimum
AHU Air Handling Unit	MISC Miscellaneous
AL Aluminum	MLO Main Lugs Only
ALT Alternate	MMS Manual Motor Starter
AMP Ampere	MOA Multioutlet Assembly
AMPL Amplifier	MSP Motor Starter Panelboard
ANNUN Annunciator	MSSD Main Switchboard
APPROX Approximately	MSS Motor Starter Switch
AQ-STAT Aquastat	MT Mount
ARCH Architect, Architectural	MT.C Empty Conduit
AS Amp Switch	MTS Manual Transfer Switch
AT Amp Trip	MTR Motor, Motorized
ATS Automatic Transfer Switch	NC Normally Closed
AUTO Automatic	NEC National Electrical Code
AUX Auxiliary	NEMA National Electrical Manufacturer's Association
AV Audio Visual	NFDS Non-Fused Safety Disconnect Switch
AWG American Wire Gauge	NPS Not To Scale
BD Board	OC On Center
BLDG Building	OH Overhead
BMS Building Management System	OL Overloads
C Conduit	PA Public Address
CAB Cabinet	PB Pull Box Or Pushbutton
CAT Catalog	PE Pneumatic Electric
CATV Cable Television	PED Pedestal
CB Circuit Breaker	PF Power Factor
CCTV Closed Circuit Television	PH Phase
CKT Circuit	PIV Post Indicating Valve
CLG Ceiling	PNL Panel
COMB Combination	PP Power Pole
CMPR Compressor	PR Pair
CONN Connection	PRI Primary
CONST Construction	PROJ Projection
CONT Continuation Or Continuous	PRV Power Roof Ventilator
CONTR Contractor	PT Potential Transformer
CONV Converter	PVC Polyvinyl Chloride (Conduit)
CP Circulating Pump	PWR Power
CRT Cathode-Ray Tube	QUAN Quantity
CT Current Transformer	RCPT Receptacle
CTR Center	REQD Required
CU Copper	RIM Room
DCP Domestic Water Circulating Pump	RSC Rigid Steel Conduit
DEPT Department	RTU Roof Top Unit
DIA Diameter	SC Surface Conduit
DISC Disconnect	SEC Secondary
DIST Distribution	SHT Sheet
DN Down	SIM Similar
DPR Dumper	SLD Single-Line Diagram
DS Safety Disconnect Switch	SN Solid Neutral
DT Double Throw	SPEC Specification
DWG Drawing	SPKR Speaker
EC Electrical Contractor	SR Spare
ELEC Electric, Electrical	SPP Single-Point Power
ELEV Elevator	SR Surface Raceway
ELU Emergency Lighting Unit	SS Stainless Steel
EM Emergency	SSW Selector Switch
EMS Energy Management System	S/S Stop/Start Pushbuttons
EMT Electrical Metallic Tubing	STA Station
EP Electric Pneumatic	STD Standard
EQUIP Equipment	SURF Surface Mounted
EWC Electric Water Cooler	SW Switch
EXIST Existing	SWBD Switchboard
EXH Exhaust	SYM Symmetrical
EXP Explosion Proof	SYS System
FA Fire Alarm	TEL Telephone
FABP Fire Alarm Booster Power Supply Panel	TERM Terminal
FACP Fire Alarm Control Panel	TL Twist Lock
FCU Fan Coil Unit	TR Tamper Resistant
FIXT Fixture	T-STAT Thermostat
FLR Floor	TTC Telephone Terminal Cabinet
FLUOR Fluorescent	TV Television
FU Fuse	TVTC Television Terminal Cabinet
FUSD Fused Safety Disconnect Switch	TYP Typical
GAL Gallon	UC Under Counter
GALV Galvanized	UE Underground Electrical
GC General Contractor	UG Underground
GEN Generator	UH Unit Heater
GFI Ground Fault Circuit Interrupter	UTL Underground Telephone
GFP Ground Fault Protector	UTIL Utility
GND Ground	UV Ultraviolet
GRS Galvanized Rigid Steel (Conduit)	V Volt
GYP BD Gypsum Board	VA Volt-Amperes
HOA Hands-Off-Automatic Switch	VDT Video Display Terminal
HORIZ Horizontal	VERT Vertical
HP Horsepower	VFD Variable Frequency Drive
HPF High Power Factor	VOL Volume
HT Height	W Watt
HTG Heating	W/ With
HTR Heater	WG Wire Guard
HV High Voltage	WH Water Heater
HVAC Heating, Ventilating And Air Conditioning	W/O Without
IC Interrupting Capacity	WP Weatherproof
IG Isolated Ground	XFMR Transformer
IMC Intermediate Metal Conduit	XFR Transfer
INCAND Incandescent	
IR Infrared	
I/W Interlock With	
J-BOX Junction Box	
KV Kilovolt	< Angle
KVA Kilovolt-Ampere	@ At
KVAR Kilovolt-Ampere Reactive	▲ Delta
KW Kilowatt	' Feet
KWH Kilowatt Hour	+ Inches
LOC Locate Or Location	# Number
LT Light	Ø Phase
LTG Lighting	C Center Line
LTNG Lightning	P Plate
LV Low Voltage	
LV Low Voltage	
MAX Maximum	
MAG.S Magnetic Starter	
M/C Momentary Contact	
MC Mechanical Contractor	

Electrical Symbol Legend

Lighting Symbols

Lighting Fixtures, Typical, Rectangular (Various Symbols)
Filled circles indicate recessed.
Open circles indicate surface-mounted.
Diagonal line indicates lensed.
Outer dots indicate suspended.

Lighting Fixtures, Typical, Round (Various Symbols)
Center dot indicates pendant.
Diagonal line indicates lensed.
Chevron indicates wall wash.

Wall-mounted fixtures, Typical (Various Symbols)

Strip Fixture

Directional Light, Track Light, Flood Light

Linear Light, Tape Light

Emergency Lighting Unit, Ceiling-Mounted, Integral Battery

Emergency Lighting Unit, Ceiling-Mounted, Remote Battery

Emergency Lighting Unit, Wall-Mounted, Remote Battery

Exit Light, Ceiling-Mounted. Shading and arrows indicate faces and directional chevrons.

Exit Light, Wall-Mounted. Shading and arrows indicate faces and directional chevrons.

Exit/ELU Combo

Pole/Area Lights

Post-Top Area Light

Bollard Light

Solid hatch indicates light on an emergency or life safety circuit.

Single-Pole Switch

Two-Pole Switch

Three-Pole Switch

Switch Modifiers:
3: 3-Way OS: Occupancy Sensor
4: 4-Way VS: Vacancy Sensor
K: Keyed AC: Above-Counter
D: Dimming LV: Low-Voltage
T: Timer M: Motor-Rated

Lighting Tags

Top Value: Fixture Type ID (Underlined)
Bottom Value, Lowercase Letter: Switch ID
Bottom Value, Number(s): Circuit Number
Bottom Value, Uppercase Letter(s): Panel ID

Absence of a switch designation on a lighting fixture indicates fixture is controlled by the only switch in the space. An "x" in place of the switch designation indicates unswitched.

Switch ID indicated by a lowercase letter. Switch IDs are unique per space. A switch with an ID "a" controls all devices within the space in which it is located tagged with "a". A switch without a tagged ID controls all lighting fixtures within a space. ID tags may be used on control devices other than switches, such as occupancy sensors or contactors.

Grounding and Lightning Protection Symbols

Ground Rod

Ground Rod with Test Well

Static Ground Receptacle

Lightning Protection Air Terminal

Lightning Protection Conductor Splice

Power Symbols

Simplex Receptacle

Duplex Receptacle

Quadplex Receptacle

Special Receptacle, Type as Indicated

Receptacle Modifiers:
#: Height AFF OC
AC: Above Counter
GFI: Ground-Fault Circuit Interrupter
WP: Weatherproof In-Use Cover

Half shading indicates split (typically switched)
Outside shading indicates emergency circuit
Center shading indicates isolated ground

Single-Pole Switch

Two-Pole Switch

Three-Pole Switch

Switch Modifiers:
K: Keyed
T: Timer
AC: Above-Counter
M: Motor-Rated

Multioutlet Assembly
Filled squares indicate 120V outlet
Open squares indicate with USB

Cord Reel, Device Varies

Drop Cord, Device Varies

Junction Box

Floor Box, see schedule for type

Emergency Power Off

Door Opener Push Plate

Power Meter

Safety Switch, Fused

Safety Switch, Unfused

Motor Starter

Combination Starter/Disconnect

Contactors

Power Device and Equipment Tags

Electrical Device Tags: Uppercase letter(s) indicates Panel ID and circuit number. Lowercase letter indicates designation of controlling switch (where applicable).

Equipment Tags: Equipment ID is indicated by an underlined tag adjacent to the equipment. See the equipment connection schedule for description, electrical requirements, and panel and circuit number. Symbols/graphic appearance of equipment varies.

XX-1

Wiring

Solid, arced lines connecting equipment, devices, or fixtures indicate unswitched power circuiting. Wires are only intended to indicate to what circuit devices are connected. Actual connections, circuit routing, installation, junction boxes, etc. shall be field-determined by the contractor.

Dashed, arced lines connecting equipment, devices, or fixtures indicate switched power.

Home run to branch circuit panelboard. The equipment name and circuit number(s) are indicated, separated by a hyphen. Home runs are only intended to indicate panel and circuit number. Actual homerun location shall be field-determined by the contractor.

Power Distribution Equipment

Hatched fill indicates distribution panel or switchboard. Solid fill indicates branch panel or load center. Dashed box indicates code-required clearance (width and depth). Door indicates front of recessed panel.

Panelboards are assigned an abbreviated indicator (or Panel ID) for use with circuit numbers. Panel ID is listed within the panel schedule and in the panel abbreviation schedule.

Equipment is tagged with Panel Name and with Panel ID in parentheses. Panel ID is intended as a design documentation aid only. Do not include Panel ID in field-applied circuit directories or labels.

Devices and fixtures are tagged with Panel ID and circuit number. For example, a device tagged with "A1" indicates the device is circuited to panel designated "A," circuit number 1. The panel schedule circuit number contains both the panel abbreviation and the circuit number.

Transformer: Typically transformer names begin with or contain the letter "T". See Single-Line Diagram for description and requirements.

Telecom Symbols

Data Outlet

Telephone Outlet

Data/Telephone Outlet

Outlet Modifiers:
#: Height AFF OC
AC: Above Counter

Wireless Access Point

TV Outlet

Nurse Call Symbols

Nurse Call Corridor Light
Number of lights as indicated

Nurse Call Device
B: Code Blue
D: Duty Station
E: Emergency
P: Patient Call
S: Staff

Nurse Call Control Unit
NCAP: Nurse Call Annunciator Panel
NCHS: Nurse Call Host Controller
NCPA: Nurse Call Power Supply
NCTC: Nurse Call Terminal Cabinet
NCUPS: Uninterruptable Power Supply

Security Symbols

Security Camera
PTZ: Pan/Tilt/Zoom

Card Reader

Card Reader with Keypad

Closed Circuit TV Outlet

Power Meter

Electric Strike

Intercom

Magnetic Lock

Request to Exit Button

Request to Exit Sensor

Motion Detector

Security Control Unit
SCP: Security Control Panel
SPS: Security Power Supply Unit

Construction Phasing (Typical All Symbols and Equipment)

Existing to Remain

Existing to Be Demolished

New

Existing to Be Demolished

Miscellaneous

Area Not in Contract

Keynote

Callout:
Top Value: Detail Number on Sheet
Bottom Value: Sheet Number of Detail

Room Name and Number

Fire Alarm Symbols

Manual Pull Station

Horn, Wall

Horn, Ceiling

Strobe, Wall, Candela as indicated

Strobe, Ceiling, Candela as indicated

Horn/Strobe, Wall, Candela as indicated

Horn/Strobe, Ceiling, Candela as indicated

Remote Indicator w/ Test Switch, Wall

Remote Indicator w/ Test Switch, Ceiling

Smoke Detector

Heat Detector

Carbon Monoxide Detector

Beam Detector T: Transmitter R: Receiver

Combination Detector (Up to Three)

Duct Smoke Detector

Smoke Damper

Door Holder

Door Closer

Fire Service Phone

Addressable Module
PTZ: Pan/Tilt/Zoom

AIM: Addressable Input Module
AOM: Addressable Output Control Module
AIO: Addressable Input/Output Module

Fire Alarm Control Unit

EVAC: Voice Evacuation Control Panel
FAA: Fire Alarm Annunciator
FACP: Fire Alarm Control Panel
FATC: Fire Alarm Terminal Cabinet
NACP: Notification Appliance Circuit Panel
FAMN: Fire Alarm Mass Notification Control Panel

Supervisory or Interface Device
PIV: Post Indicator Valve Supervisory
PS: Pressure Switch
R: Non-Addressable Relay
VS: Valve Supervisory Switch
WF: Water Flow Switch

PATRIOTS PARK RESTROOM FACILITY

PONDEROSA ROAD
CAMERON, NC

CONSTRUCTION DOCUMENTS

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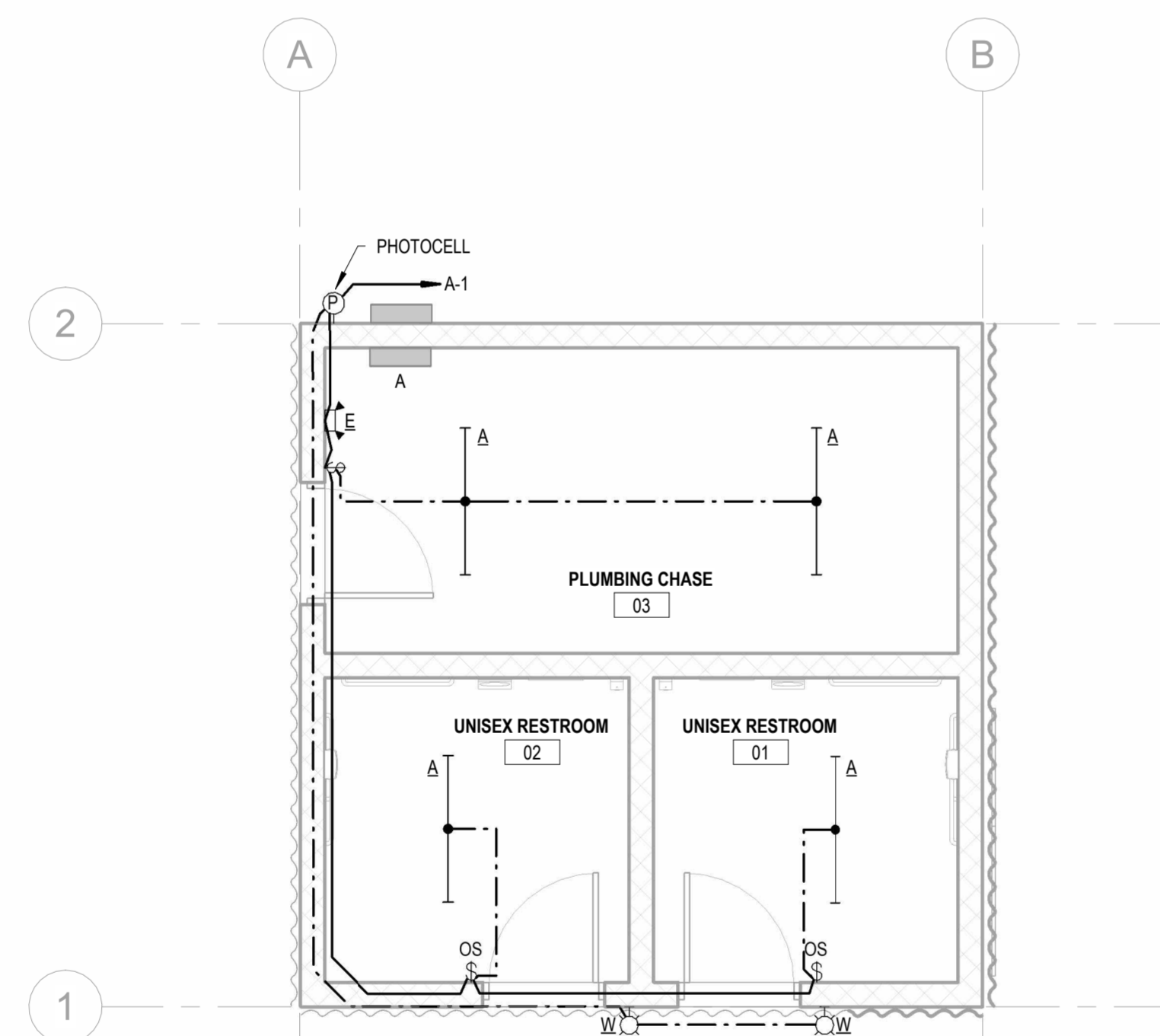
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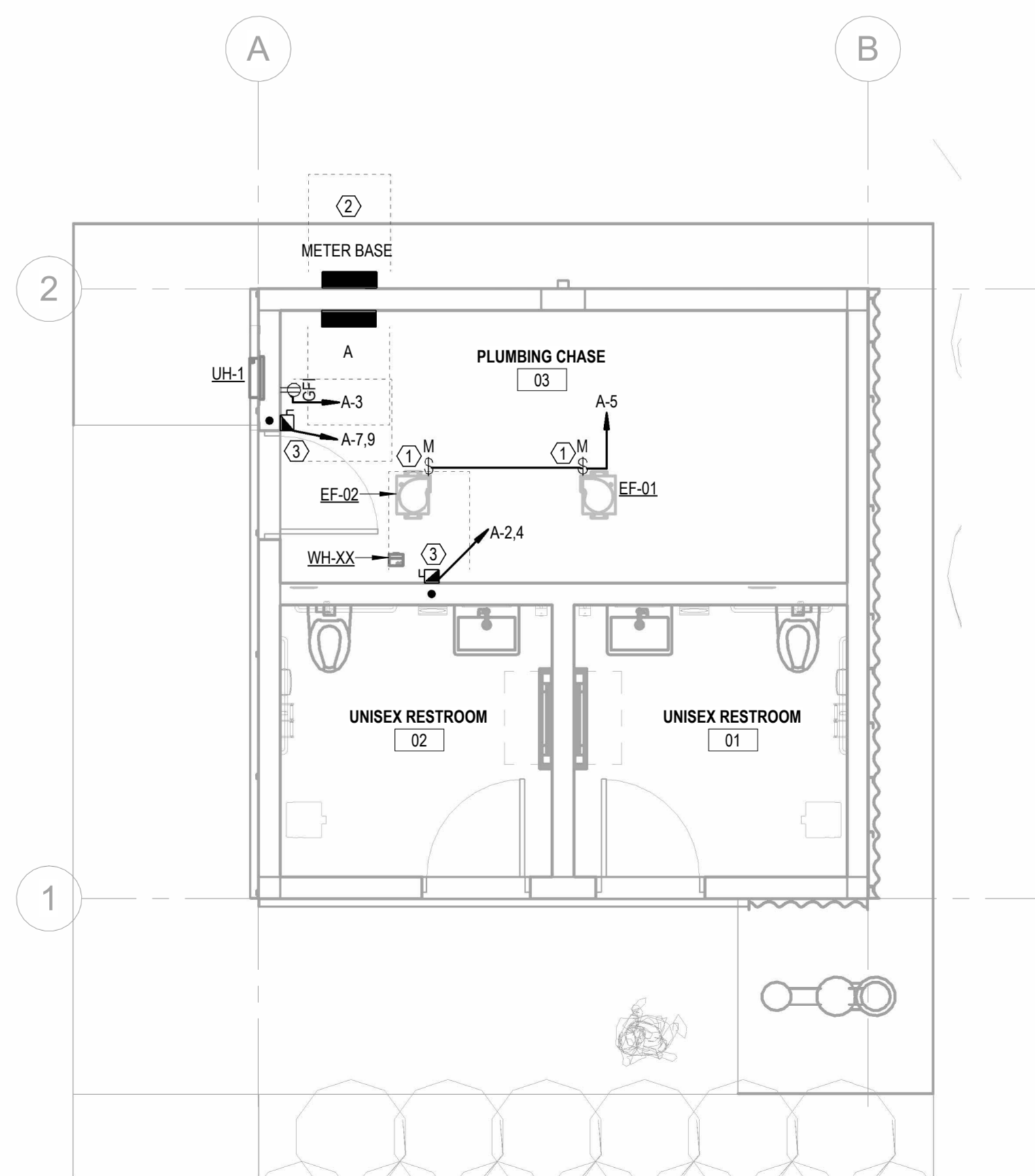
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ELECTRICAL PLANS

sheet no.:
E1.0



1 LEVEL 1 LIGHTING PLAN
E1.0
1/4" = 1'-0"



2 LEVEL 1 POWER PLAN
E1.0
1/4" = 1'-0"

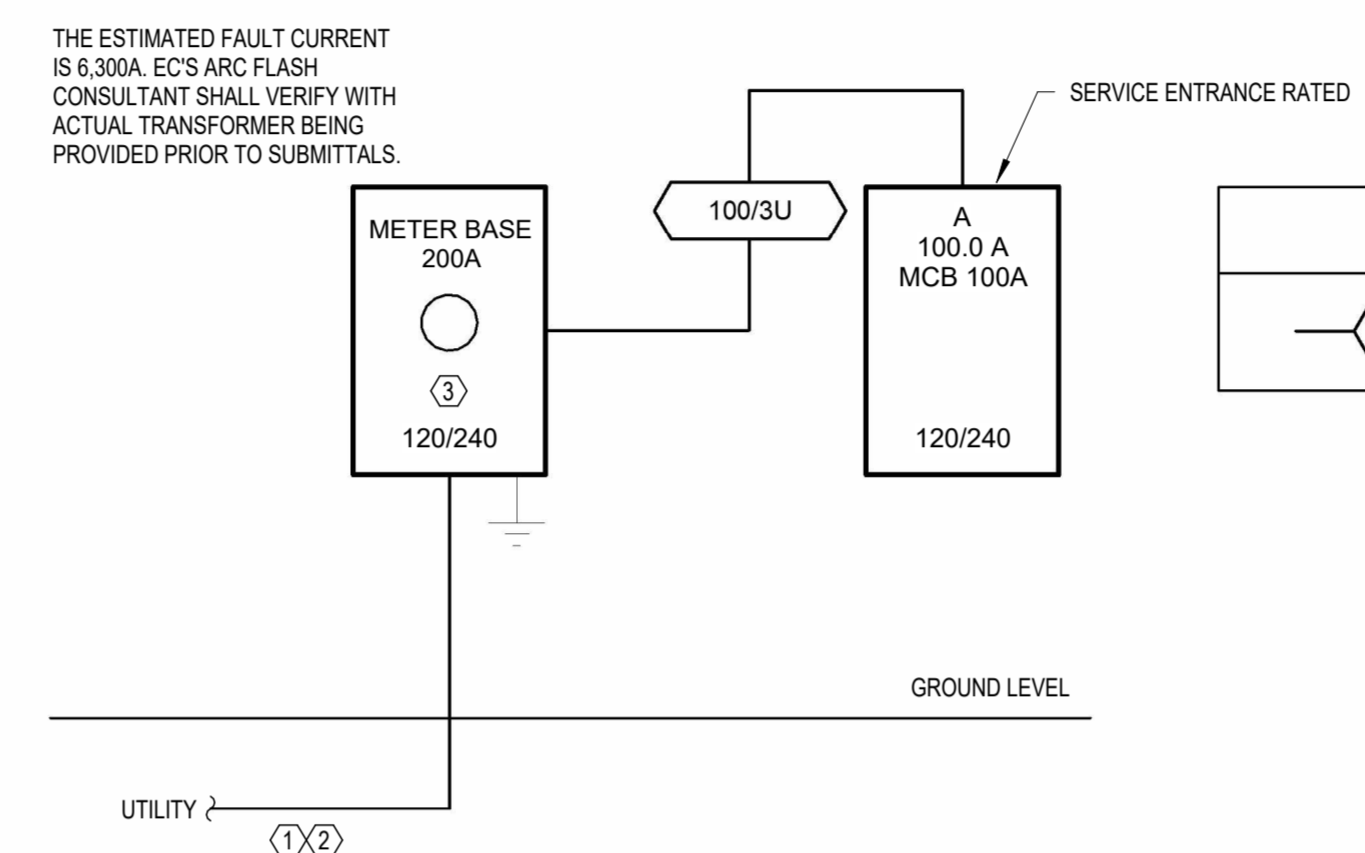
- LIGHTING SHEET NOTES**
- A ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED FOR ALL ELECTRICAL EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE (NEC 110.26).
 - B ALL CONDUIT AND WIRES AT OPEN CEILING ARE TO BE CONCEALED AND INSTALLED ALONG THE STRUCTURAL BEAMS IN A CLEAN WAY AND HIDDEN AS MUCH AS POSSIBLE. DO NOT INSTALL CABLES, FACEWAYS, AND BOXES IN THE SPACE BETWEEN THE METAL DECK AND THE ROOFING MATERIAL PER NEC 300.4(E). ROUTE CONDUITS PARALLEL OR PERPENDICULAR TO STRUCTURAL STEEL.
 - C ALL PENETRATIONS THROUGH FIRE WALL MUST BE PROPERLY SEALED TO ENSURE EFFECTIVE FIRE RESISTANCE BY AN APPROVED CONTRACTOR. COORDINATE WITH G.C.
 - D LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
 - E ALL BRANCH CIRCUIT CONDUIT TO BE INSTALLED OVERHEAD.
 - F EMERGENCY CIRCUIT WIRING TO HAVE CONTACTOR SWITCHED CONDUCTOR AND ALSO UNSWITCHED CONDUCTOR TO ALL EXIT AND EXTERIOR LIGHTS WHERE SHOWN.
 - G CONFIRM LOCATION OF ALL DOOR SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN ON SWITCHES.
 - H REFER TO ARCHITECT'S REFLECTED CEILING PLANS FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA. VERIFY FLANGE TYPES, TRIM KITS, STEM LENGTH, ETC. FOR ALL LIGHT FIXTURES PRIOR TO SUBMITTALS.
 - J COORDINATE WITH LIGHTING VENDORS FOR NECESSARY MOUNTING HARDWARE AND ACCESSORIES PRIOR TO ROUGH-IN.
 - K NOTIFY ENGINEER OF ANY DISCREPANCY PRIOR TO ROUGH-IN.

- KEYNOTES**
- 1 PROVIDE AND INSTALL 20 AMP SINGLE POLE MOTOR RATED SWITCH WITH ENCLOSURE.
 - 2 E.C. TO PROVIDE AND INSTALL 200AMP METER BASE WITH 2 POLE, 3 WIRE, 250V, NGR ENCLOSURE.
 - 3 PROVIDE AND INSTALL 30 AMP, 1P, 2W, 250VOLT, N1, HEAVY DUTY, FUSED DISCONNECT. FUSE PER EQUIPMENT NAMEPLATE.

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15886
08/23/24
ENGINEER
ROBERT R. STROUPE III
NORTH CAROLINA PROFESSIONAL ENGINEER



GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN ARC FLASH LABEL ON PANELBOARDS, SWITCHGEAR, ETC., IN ACCORDANCE WITH NFPA 70E.
- SHARED NEUTRALS ARE NOT ALLOWED FOR NEW WORK. PROVIDE SEPARATE NEUTRALS. PROVIDE THE BREAKERS AS NEEDED ON EXISTING CIRCUITS.
- PROVIDE AND INSTALL PHENOLIC NAMEPLATES WITH STAINLESS STEEL SCREWS.
- ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
- ALL SPLICES 1/0 AND LARGER SHALL BE HYPRRESS CRIMP.
- LABEL ALL RECEPTACLES AND DISCONNECTS.

KEYNOTES

- INCOMING SERVICE CONDUCTORS BY POWER COMPANY.
- PROVIDE (1/2" SCHEDULE 80 PVC CONDUITS BY E.C. FOR POWER COMPANY (+/- 250'). CONDUCTORS BY POWER COMPANY.
- E.C. TO PROVIDE AND INSTALL 200AMP METER BASE WITH 2 POLE, 3 WIRE, 250V, N3R ENCLOSURE.

1
E2.0
ELECTRICAL RISER DIAGRAM
NOT TO SCALE

Load Center: A										VOLTAGE: 120/240, 1Ø, 3W		MAINS TYPE: MCB	
LOCATION: PLUMBING CHASE 03										BUS RATING: 100 A		MAINS RATING: 100 A	
SUPPLY: METER BASE										NEUTRAL: 100%		A.I.C.: 10 KA	
MOUNTING: SURFACE										FEED-THRU LUGS: No			
ENCLOSURE: NEMA 1										FEATURES & MODIFICATIONS: -			
SERVICE ENTRANCE RATED:													
CKT	DESCRIPTION	TRIP (A)	POLES	WIRES & CONDUITS	PHASE A LOAD (VA)	PHASE B LOAD (VA)	WIRES & CONDUITS	POLES	TRIP (A)	DESCRIPTION	CKT		
1	LIGHTING - RM 01,02,03 & WALL PACK	20	1	2#12 #12G,3/4"	187	2556	3#10 #10G,3/4"	2	30	WH-XX	2		
3	ROPT - RM 03	20	1	2#12 #12G,3/4"	54	0	--	1	20	SPARE	4		
5	EXHAUST FANS - RM 03	20	1	2#12 #12G,3/4"	2760	0	--	2	30	SPARE	6		
7	UH-1	30	2	3#10 #10G,3/4"	2760	0	--	1	20	SPARE	8		
9	UH-1	30	2	3#10 #10G,3/4"	2760	0	--	2	30	SPARE	10		
11	SPARE	20	1	--	0	0	--	1	--	SPACE	12		
13	SPARE	20	1	--	0	0	--	1	--	SPACE	14		
15	SPARE	20	1	--	0	0	--	1	--	SPACE	16		
17	SPARE	--	1	--	--	--	--	1	--	SPACE	18		
19	SPARE	--	1	--	--	--	--	1	--	SPACE	20		
21	SPARE	--	1	--	--	--	--	1	--	SPACE	22		
23	SPARE	--	1	--	--	--	--	1	--	SPACE	24		
CONNECTED LOAD:					5556 VA	5496 VA							
CONNECTED CURRENT:					46 A	46 A							
LOAD CLASSIFICATION				CONNECTED	FACTOR	DEMAND	PANEL TOTALS						
LIGHTING - INTERIOR				153 VA	125.00%	192 VA	CONNECTED LOAD: 11 kVA						
RECEPTACLE - GENERAL				180 VA	100.00%	180 VA	CONNECTED CURRENT: 46 A						
LIGHTING - EXTERIOR				33 VA	125.00%	42 VA	DEMAND LOAD: 12 kVA						
ELECTRIC WATER HEATING				5111 VA	125.00%	6389 VA	DEMAND CURRENT: 52 A						
HVAC				5574 VA	100.00%	5574 VA							
CIRCUIT NOTES:													

LUMINAIRE SCHEDULE														
ID	DESCRIPTION	MANUFACTURER	MODEL NUMBER	EQUIV. MANUFACTURER	MOUNTING	LUMENS	LAMP	CCT	CRI	DRIVER	VOLTAGE	WATTS	EMERGENCY COMPONENT	NOTES
A	4' STRIP VANDAL RESISTANT	LITHONIA	VAP 4000LM PCL MVOLT 40K 80CRI	LITESOURCE; H.E.WILLIAMS; HUBBELL	SUSPENDED	4000 lm	INTEGRAL LED	4000 K	80	LED DRIVER	120 V	33 W	--	MOUNTING AS REQUIRED, SUSPEND TO 10' AFF
E	ELU INDOOR, TWO HEAD	LITHONIA	ELM6L UVOLT LTP	LITESOURCE; H.E.WILLIAMS; HUBBELL	SURFACE WALL	1100 lm	INTEGRAL LED	6500 K	80	LED DRIVER	120 V	6 W	BATTERY	
W	DECORATIVE SCOCNE	SESCO TGS	CUDWR-0411-15W-4000K	LITESOURCE; H.E.WILLIAMS; HUBBELL	SURFACE WALL	1500 lm	INTEGRAL LED	4000 K	80	LED DRIVER	120 V	15 W	--	OUTDOOR SAFE. VERIFY COLOR AND FINISH WITH ARCHITECT.

REMARKS:

- ALL LIGHT FIXTURES SHALL BE ENERGY EFFICIENCY DLC (DESIGN LIGHTS CONSORTIUM) CERTIFIED.
- LIGHT FIXTURES SHALL BE EQUIPPED WITH UL LISTED AND APPROVED INTEGRALLY MOUNTED DISCONNECTS FOR BALLAST IN ACCORDANCE WITH ARTICLE 410.30 OF THE NATIONAL ELECTRICAL CODE (NEC). THE CONTRACTOR SHALL COORDINATE WITH THE DISTRIBUTOR AND MANUFACTURER TO VERIFY THAT NEW LIGHTS MEET ALL REQUIREMENTS OF THE LATEST EDITION OF THE NEC.
- ALL LAY-IN TYPE LED LIGHT FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE WITH TWO CEILING SYSTEM SUPPORT WIRES. WIRES SHALL BE ATTACHED AT DIAGONALLY OPPOSITE CORNERS OF THE LIGHT. IN ADDITION, EACH LIGHT SHALL BE ATTACHED TO THE CEILING GRID SYSTEM USING FOUR SCREWS (TWO AT EACH END). SCREWS SHALL NOT INTERFERE WITH THE DOOR OPERATION.
- PROVIDE THREADED ROD OR WIRE SUPPORT FROM THE STRUCTURE TO ALL CEILING MOUNTED RECESS CAN LIGHTS SO THAT TRIM WILL FIT FLUSH AGAINST THE CEILING AND THE CEILING TILES WILL NOT SAG.
- EXIT LIGHTS SHALL HAVE EVEN GRAPHICS ILLUMINATION (INDIVIDUAL LED SHALL NOT BE VISIBLE), UNIVERSAL MOUNTING, FACES, ARROWS, AND ETC.
- CONNECT ALL FIXTURES WITH THE "EMERGENCY" (MATCHED) AND EXTERIOR EMERGENCY EGRESS LIGHTS TO THE NEAREST EXISTING LIFE SAFETY PANEL. SEE PANEL SCHEDULES AND SITE WORK PLAN NEW WORK.
- PROVIDE ALL FIXTURE MOUNTING HARDWARE WHERE REQUIRED.
- OUTDOOR AND CANOPY LIGHTS ARE WET LOCATION LISTED.
- VERIFY LIGHT FIXTURE FINISH PRIOR TO ORDERING.

**PATRIOTS PARK
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CAMERON, NC

CONSTRUCTION DOCUMENTS

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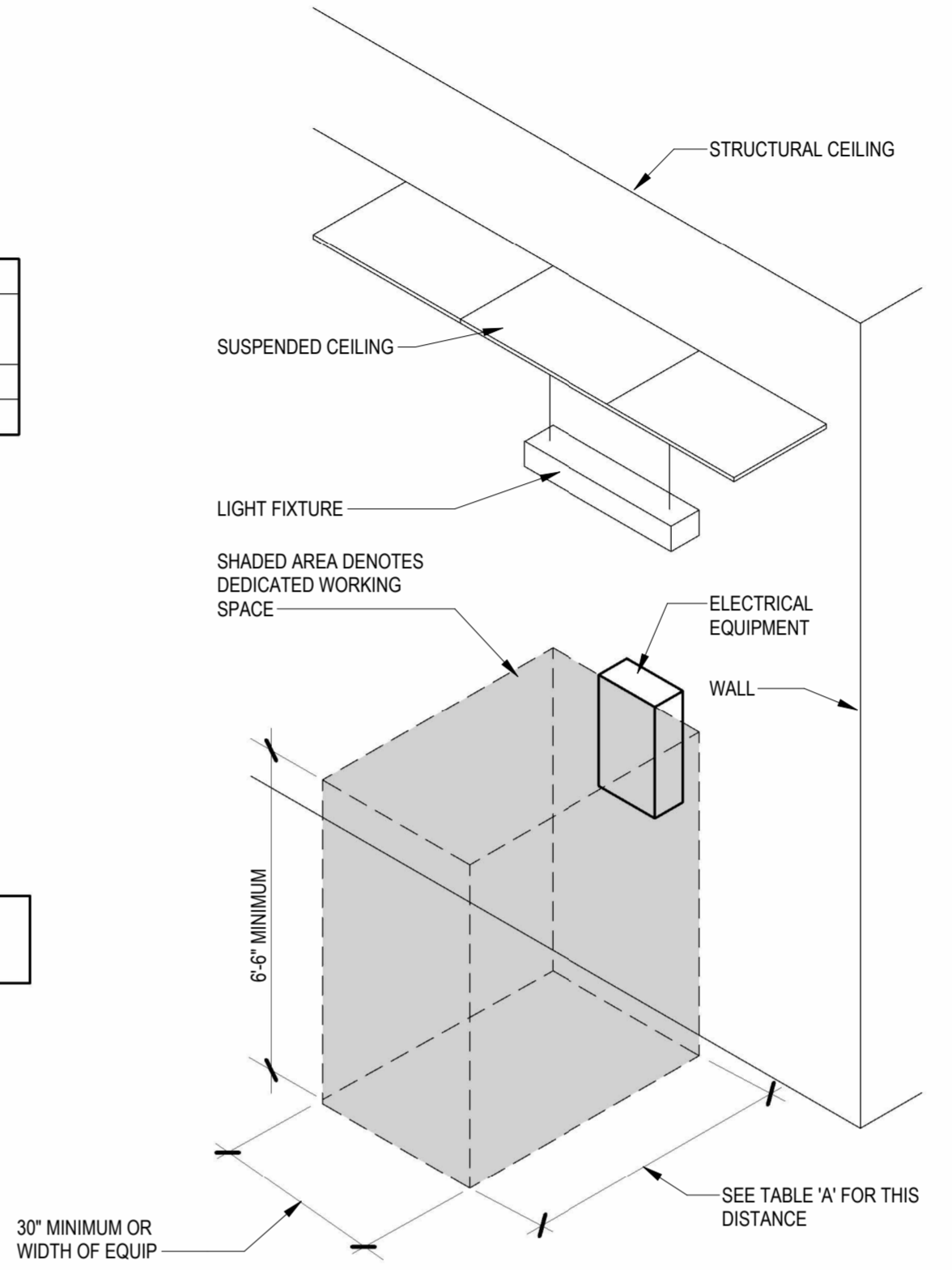
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TABLE A - WORKING SPACE REQUIREMENTS

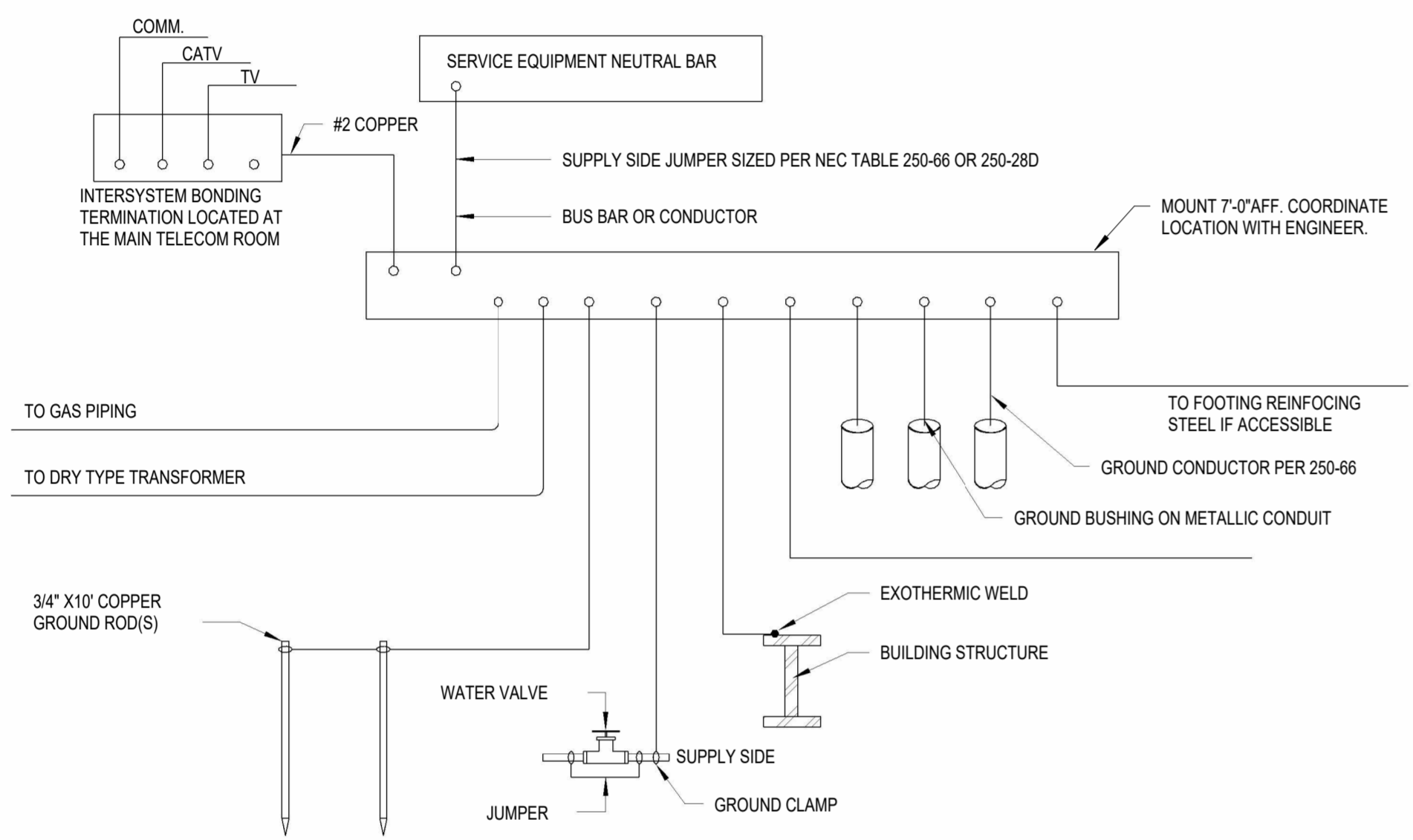
VOLTAGE TO GROUND (NOMINAL)	MIN. CLEAR DISTANCE (INCHES)		
	CONDITION 1	2	3
0-150 VOLTS	36	36	36
151-600 VOLTS	36	42	48

- WHERE 'CONDITIONS' ARE AS FOLLOWS:
- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUS BARS OPERATING AT NOT OVER 300 VOLTS, SHALL NOT BE CONSIDERED LIVE PARTS.
 - EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

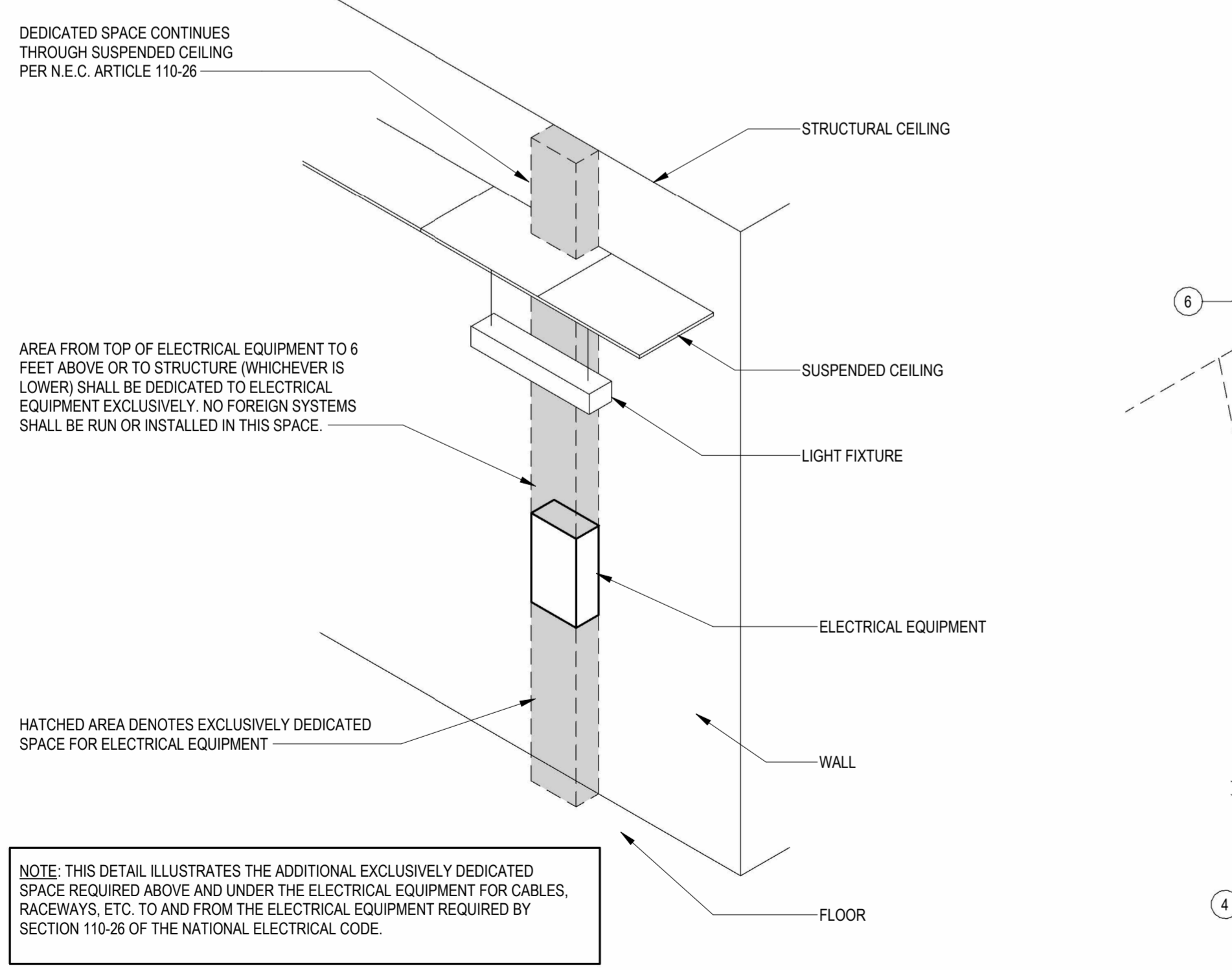
NOTE: THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110-26 OF THE NATIONAL ELECTRICAL CODE.



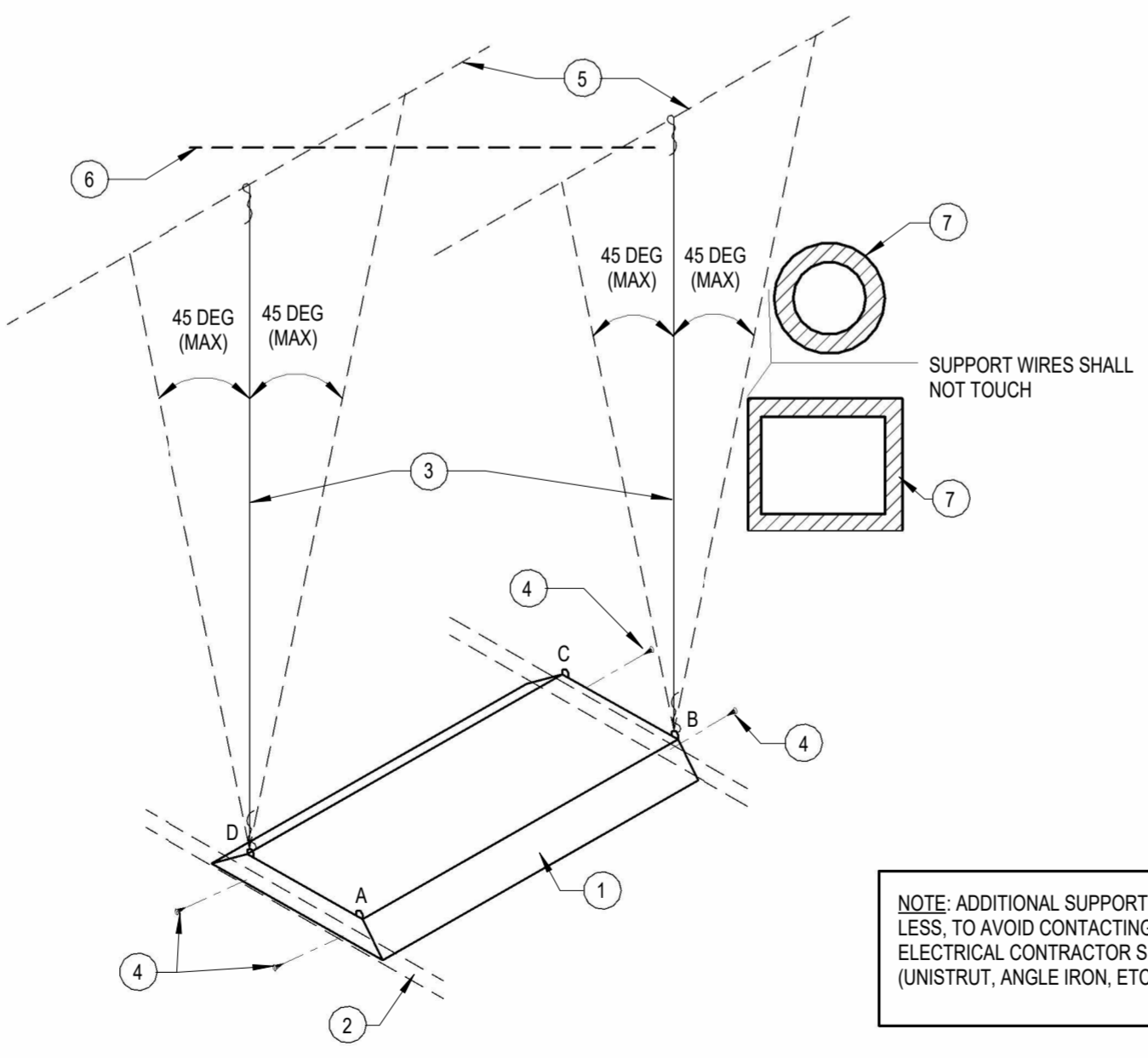
2 ELECTRICAL EQUIPMENT MINIMUM WORKING SPACE
E2.1 NOT TO SCALE



1 SERVICE GROUNDING DETAIL
E2.1 NOT TO SCALE



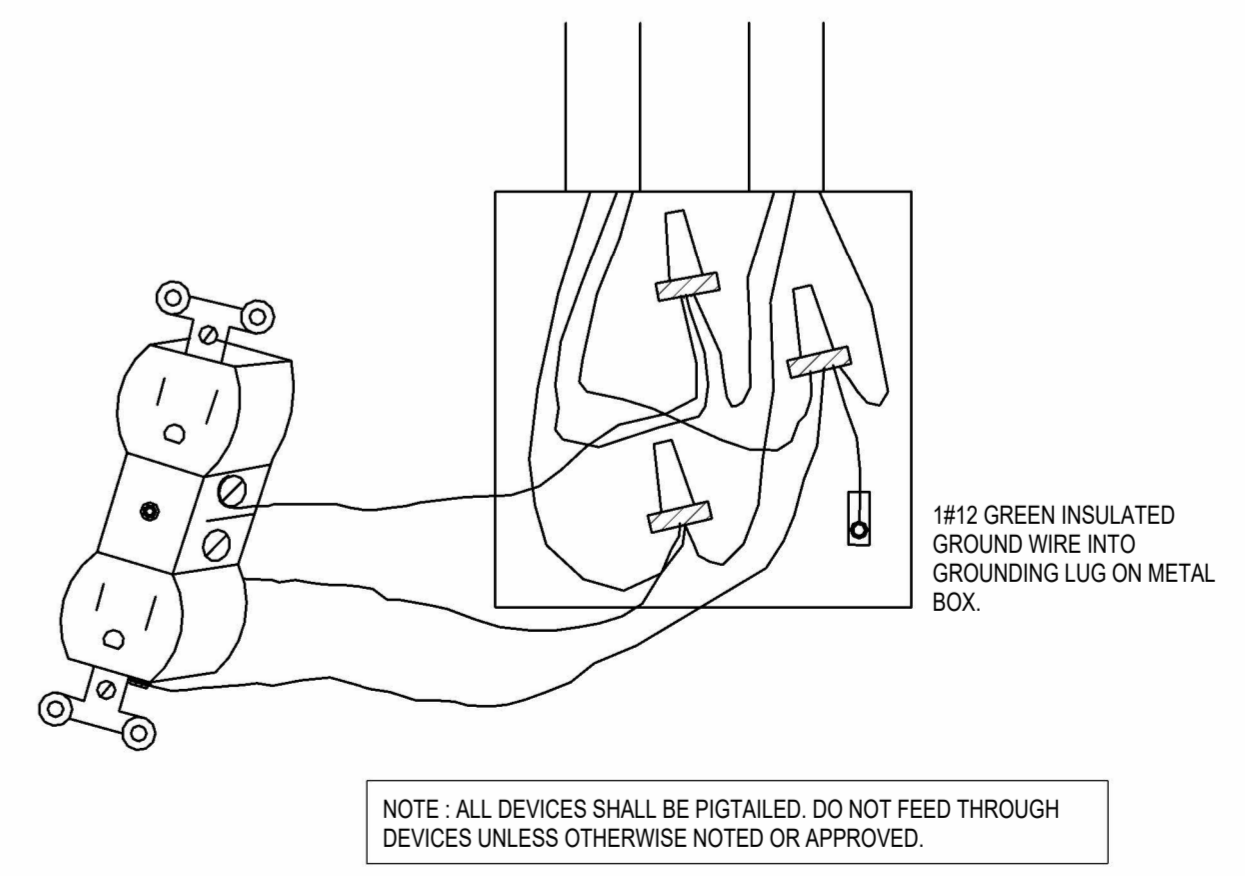
3 ELECTRICAL RACEWAY MINIMUM WORKING SPACE
E2.1 NOT TO SCALE



4 LAY-IN LIGHT FIXTURE SUPPORT
E2.1 NOT TO SCALE

- KEYNOTES:** #
- LAY-IN LIGHT FIXTURE.
 - CEILING GRID.
 - SUPPORT WIRE. USE CEILING TYPE SUPPORT WIRE. ONE AT EACH OF TWO DIAGONALLY OPPOSITE CORNERS (EITHER 'A' & 'C' OR 'B' & 'D'). TWO REQUIRED PER LIGHT). WIRES SHALL BE SINGLE LENGTH (DO NOT SPLICE), INSTALLED AT NO MORE THAN 45 DEGREES FROM VERTICAL IN ANY DIRECTION. TAUT (NO SLACK), PAINTED A DIFFERENT COLOR (RED) THAN THE OTHER CEILING SUPPORT WIRES.
 - SHEET METAL SCREW (FOUR REQUIRED PER LIGHT). THE SCREWS SHALL BE INSTALLED CONCEALED FROM SIGHT IN SUCH A MANNER THAT THE LIGHT IS ADEQUATELY SECURED TO THE GRID AND THE SCREWS DO NOT INTERFERE WITH ANY DOOR TRIMS, FLANGES, LOUVERS, ETC. INSTALL SCREWS TIGHTLY SO NO GAPS APPEAR IN THE LIGHT FIXTURE FRAMING OR TRIM.
 - STRUCTURE (METAL OR WOOD TRUSS, METAL OR WOOD BAR JOIST, CONCRETE, ETC.).
 - BRIDGING BETWEEN STRUCTURAL MEMBERS (WHERE APPLICABLE). NOTE: SUPPORT WIRES ARE NOT PERMITTED TO ATTACH TO THE BRIDGING AT ANY LOCATION.
 - PIPING, HVAC DUCT, ETC. WITH OR WITHOUT INSULATION. NOTE: SUPPORT WIRES ARE NOT PERMITTED TO CONTACT ANY PIPING, HVAC DUCTS, INCLUDING INSULATION AT ANY POINT.

NOTE: ADDITIONAL SUPPORT MATERIALS MAY BE REQUIRED IN ORDER TO ACHIEVE AN ANGLE OF 45 DEGREES OR LESS, TO AVOID CONTACTING PIPING OR DUCTS. TO PREVENT FROM ATTACHING TO BRIDGING, ETC. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORT MATERIALS APPROVED FOR THE PURPOSE (UNISTRUT, ANGLE IRON, ETC.) AS REQUIRED TO INSTALL THE SUPPORT WIRES PER THIS DETAIL.



5 TYPICAL BOX RECEPTACLE CONNECTION
E2.1 NOT TO SCALE

CES
A Woman Owned Business
CONSULTANT ENGINEERING SERVICE, INC.
PLUMBING - MECHANICAL - ELECTRICAL
Phone: 336.724.0339
1111 S. Marshall Street, Suite 250
Winston-Salem, NC 27101

CES LICENSE NUMBER (NC)	F-0238
CES LICENSE NUMBER (VA)	11059277
PROJECT NO.	4447
DRAWN	REHGE
APPROVED	CRS

SEAL
15886
08/23/24
ENGINEER
OPHER R. STROUPE III
NORTH CAROLINA PROFESSIONAL ENGINEERS

**PATRIOTS PARK
RESTROOM
FACILITY**
PONDEROSA ROAD
CAMERON, NC

CONSTRUCTION DOCUMENTS

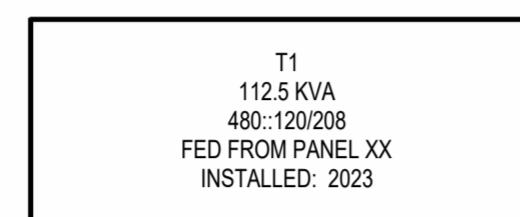
Revisions		
No.	Description	Date

date: 08/23/2024
commission: 24-140

sheet title:
ELECTRICAL DETAILS

sheet no.:

E2.2

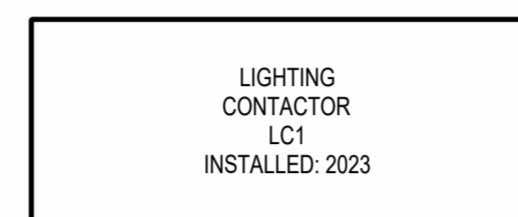


LINE 1: EQUIP. TAGNAME
LINE 2: RATING (KVA)
LINE 3: VOLTAGE CONFIGURATION
LINE 4: FEEDER SOURCE
LINE 5: FOUR-DIGIT YEAR INSTALLED

TRANSFORMER NAMEPLATE NOTES:

- MATERIAL SHALL BE CORE-ENGRAVED BAKELITE.
- COLOR SCHEME:
120/208 VOLT SYSTEMS - BLUE SURFACE WITH WHITE CORE
277/480 VOLT SYSTEMS - BLACK SURFACE WITH WHITE CORE
EMERGENCY SYSTEMS - RED SURFACE WITH WHITE CORE.
- LETTERING SHALL BE 1/4" HIGH.
- FASTEN WITH STAINLESS STEEL SCREWS OR POP RIVETS.

DRY-TYPE TRANSFORMER

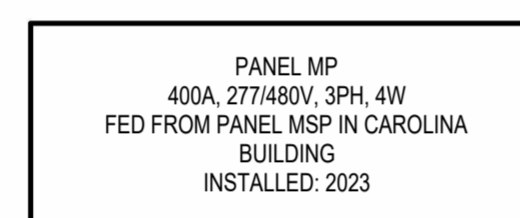


LINE 1: EQUIP. DESCRIPTION
LINE 2: EQUIP. DESCRIPTION
LINE 3: EQUIP. TAGNAME
LINE 4: FOUR-DIGIT YEAR INSTALLED

LIGHTING CONTACTOR NAMEPLATE NOTES:

- MATERIAL SHALL BE CORE-ENGRAVED BAKELITE.
- COLOR SCHEME:
120/208 VOLT SYSTEMS - BLUE SURFACE WITH WHITE CORE
277/480 VOLT SYSTEMS - BLACK SURFACE WITH WHITE CORE
EMERGENCY SYSTEMS - RED SURFACE WITH WHITE CORE.
- LETTERING SHALL BE 1/4" HIGH.
- FASTEN WITH STAINLESS STEEL SCREWS OR POP RIVETS.

LIGHTING CONTACTOR

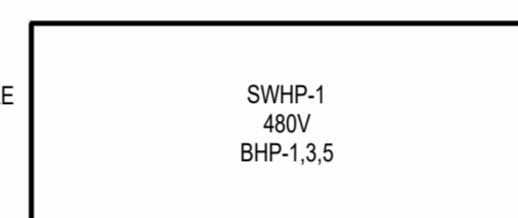


LINE 1: PANEL TAGNAME
LINE 2: AMPS, SYSTEM VOLTAGE, PHASE, WIRE
LINE 3: FEEDER SOURCE
LINE 4: FEEDER SOURCE (IF NEEDED)
LINE 5: FOUR-DIGIT YEAR INSTALLED

PANEL NAMEPLATE NOTES:

- MATERIAL SHALL BE CORE-ENGRAVED BAKELITE.
- COLOR SCHEME:
120/208 VOLT SYSTEMS - BLUE SURFACE WITH WHITE CORE
277/480 VOLT SYSTEMS - BLACK SURFACE WITH WHITE CORE
EMERGENCY SYSTEMS - RED SURFACE WITH WHITE CORE.
- LETTERING SHALL BE 1/4" HIGH.
- FASTEN WITH STAINLESS STEEL SCREWS OR POP RIVETS.

ELECTRICAL PANEL



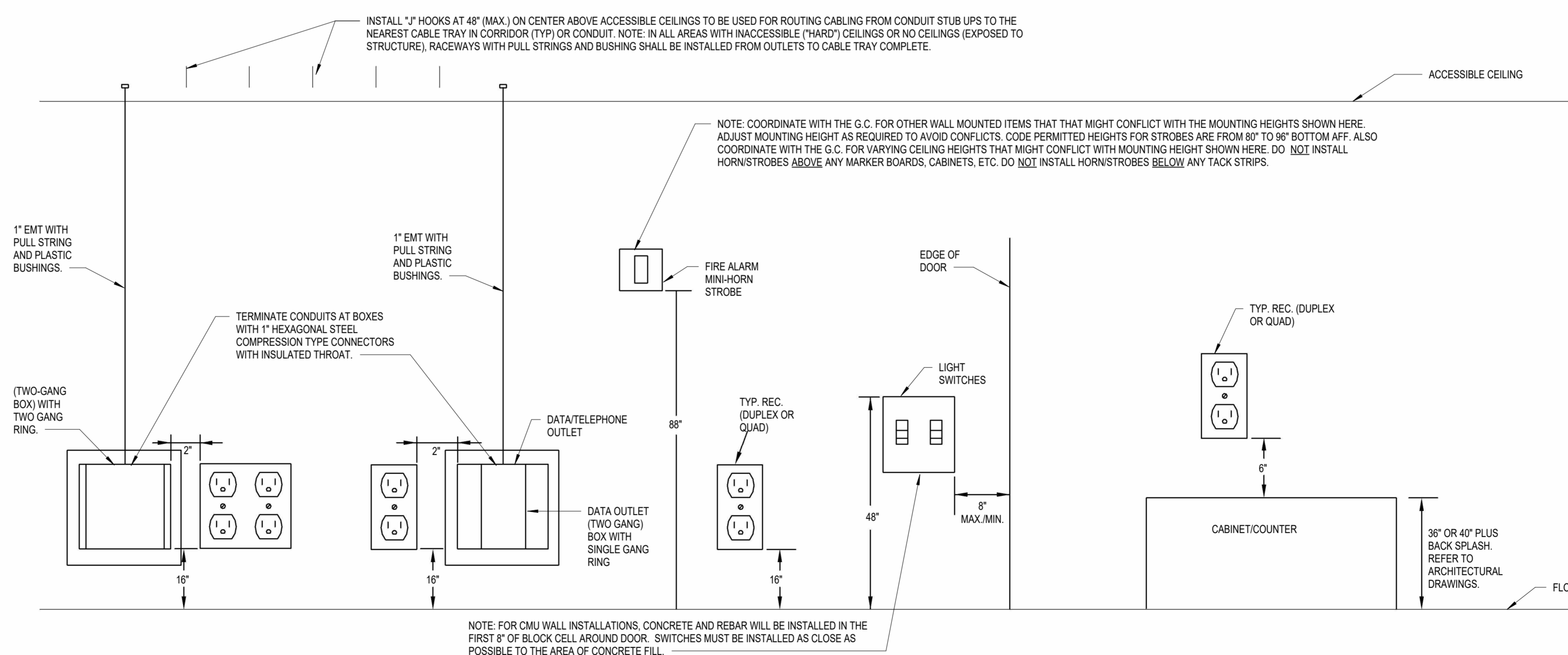
LINE 1: EQUIP. TAGNAME
LINE 2: SYSTEM VOLTAGE
LINE 3: FEEDER SOURCE
LINE 4: FEEDER SOURCE (IF NEEDED)

PANEL NAMEPLATE NOTES:

- MATERIAL SHALL BE CORE-ENGRAVED BAKELITE.
- COLOR SCHEME:
120/208 VOLT SYSTEMS - BLUE SURFACE WITH WHITE CORE
277/480 VOLT SYSTEMS - BLACK SURFACE WITH WHITE CORE
EMERGENCY SYSTEMS - RED SURFACE WITH WHITE CORE.
- LETTERING SHALL BE 1/4" HIGH.
- FASTEN WITH STAINLESS STEEL SCREWS OR POP RIVETS.

SAFETY DISCONNECT

1 TYPICAL ELECTRICAL EQUIPMENT LABELS
E2.2 NOT TO SCALE



2 TYPICAL ELECTRICAL DEVICE INSTALLATION MOUNTING HEIGHT, LAYOUT AND CLEARANCE
E2.2 NOT TO SCALE

1
A
B
C
D
E
F

11
A
B
C
D
E
F