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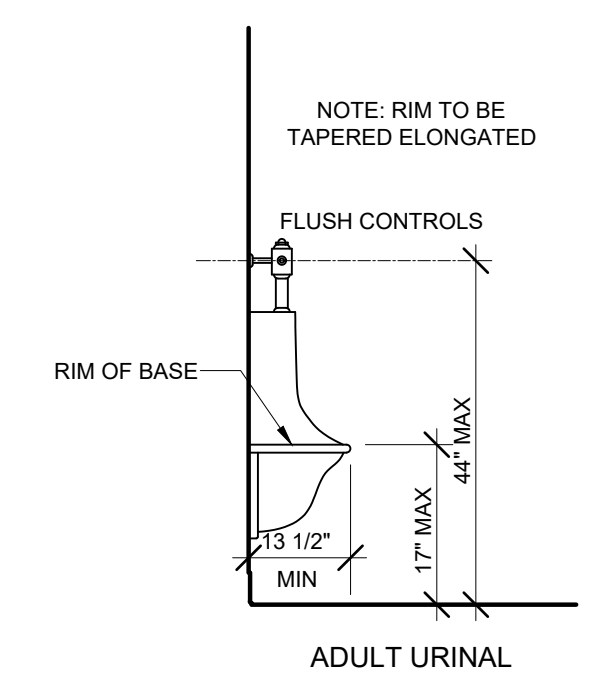
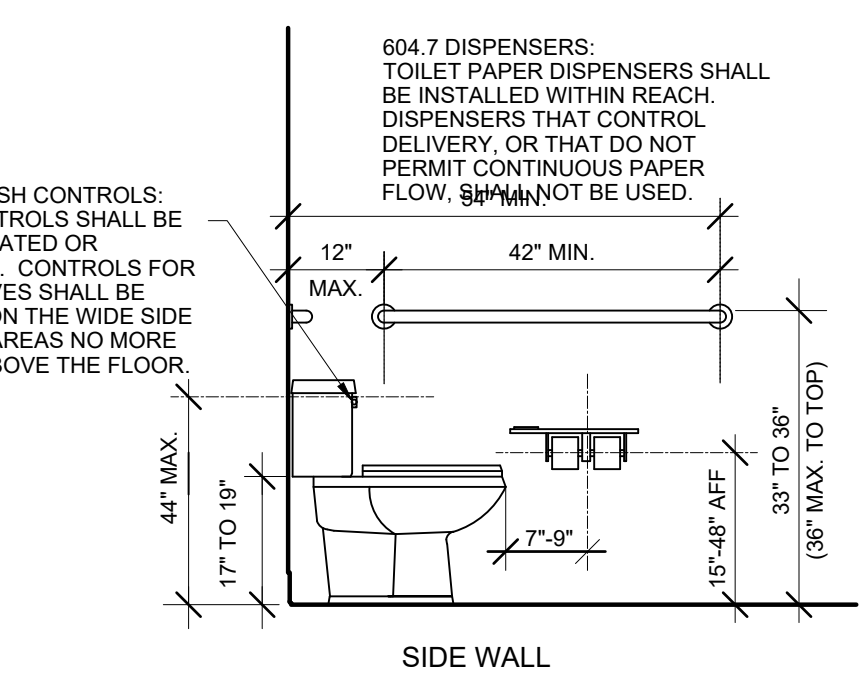
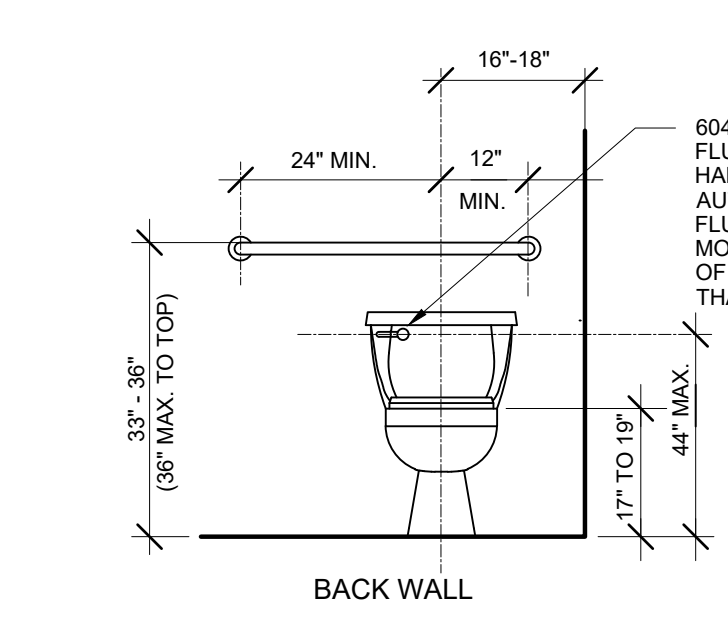
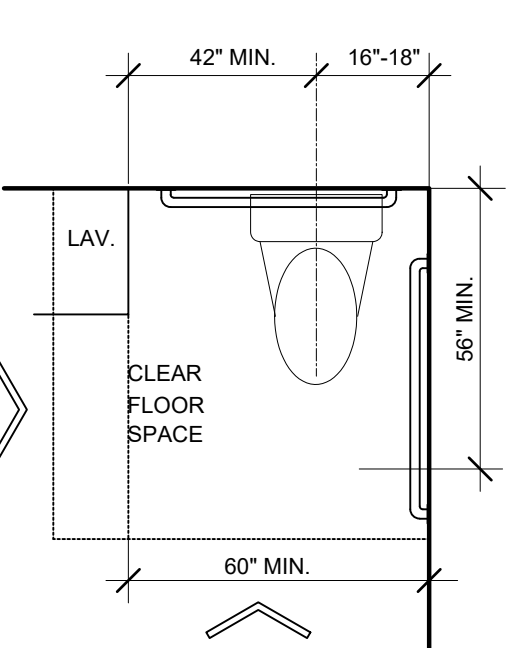
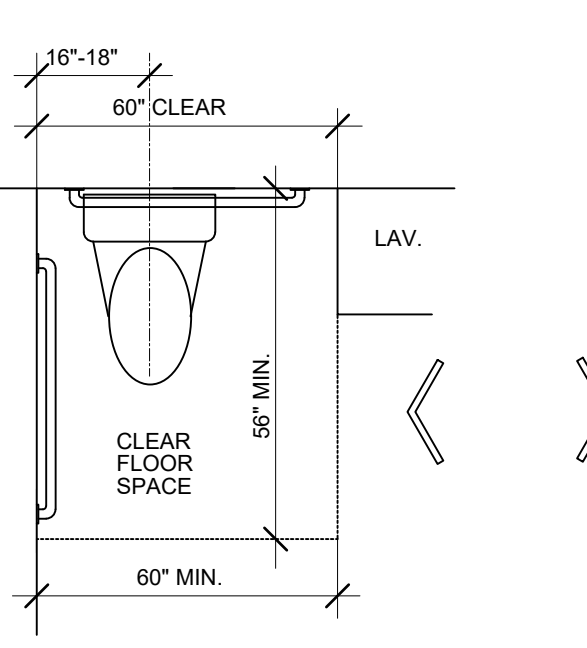
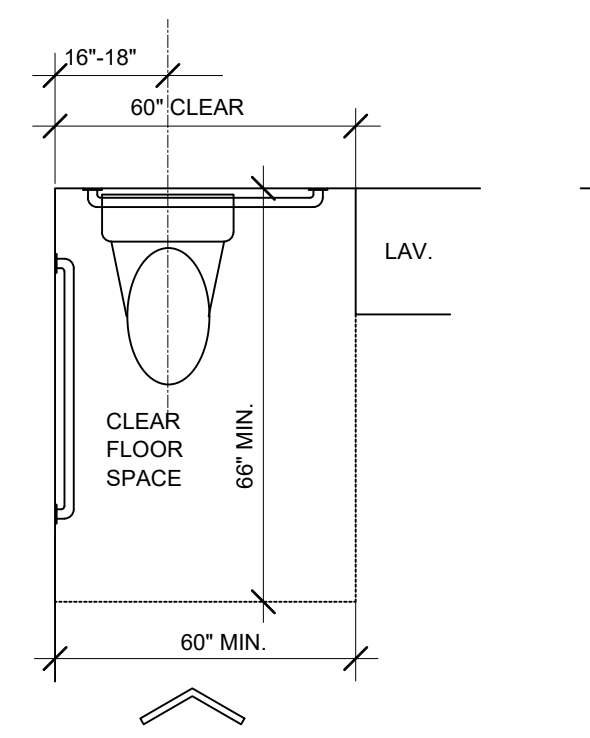
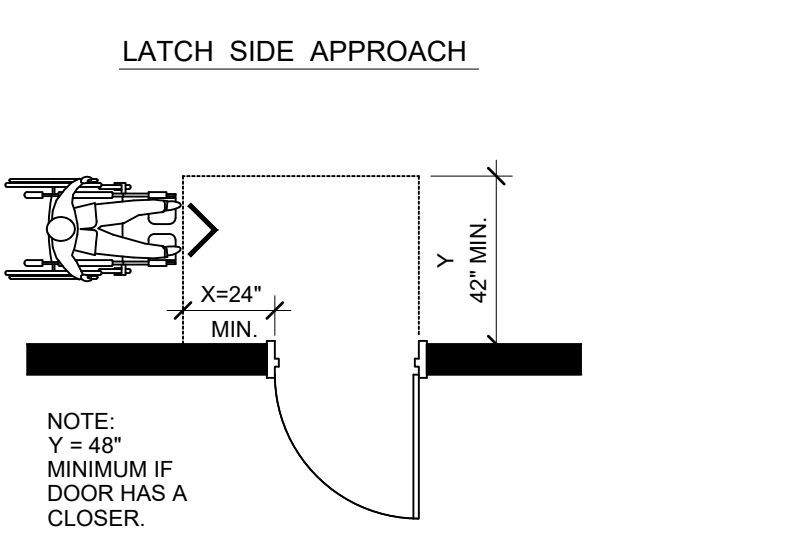
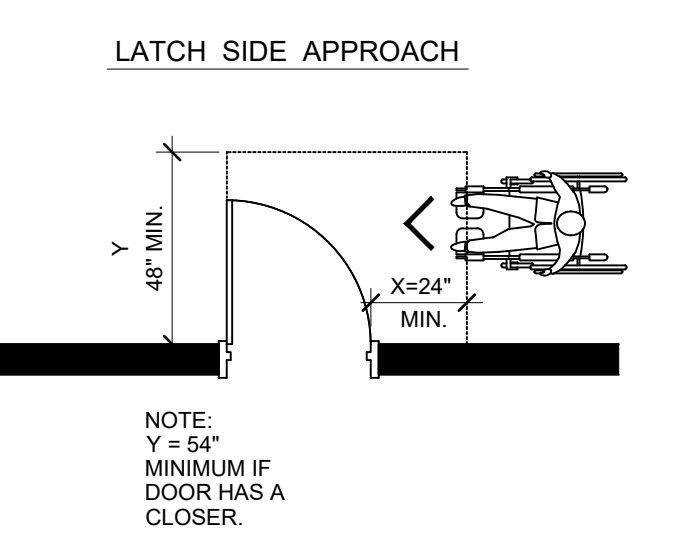
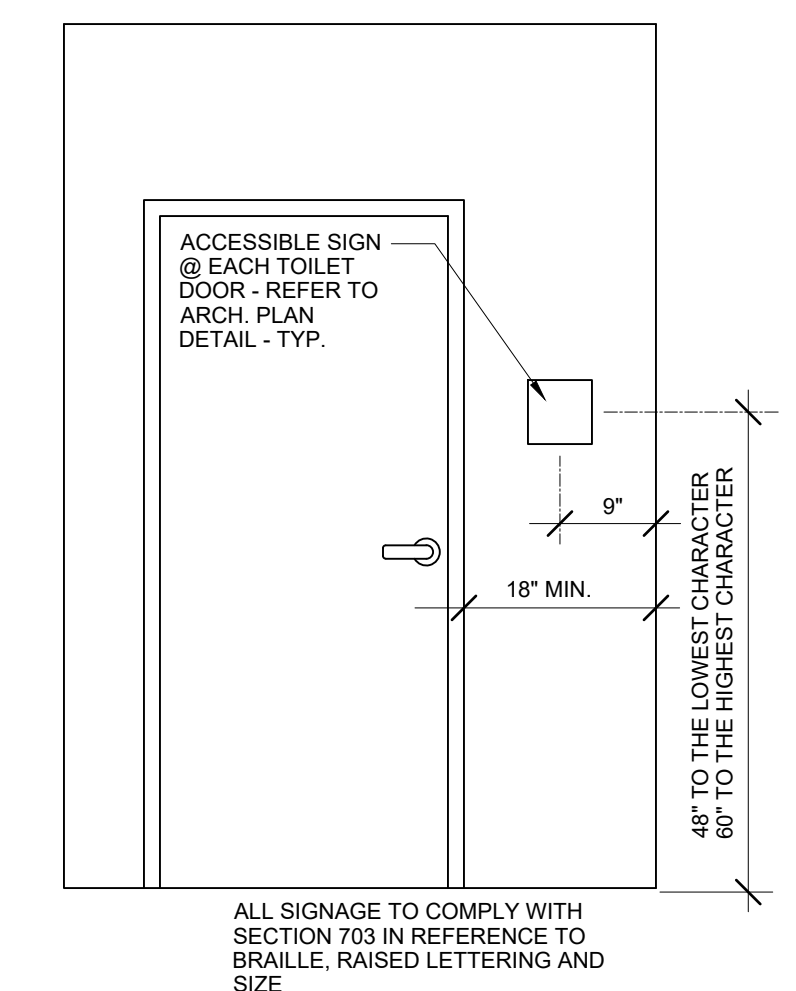
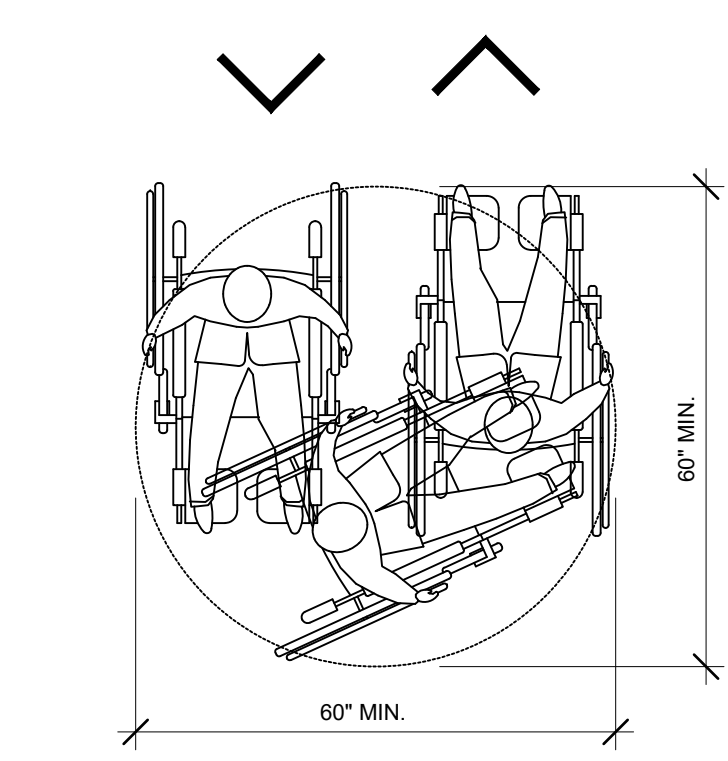
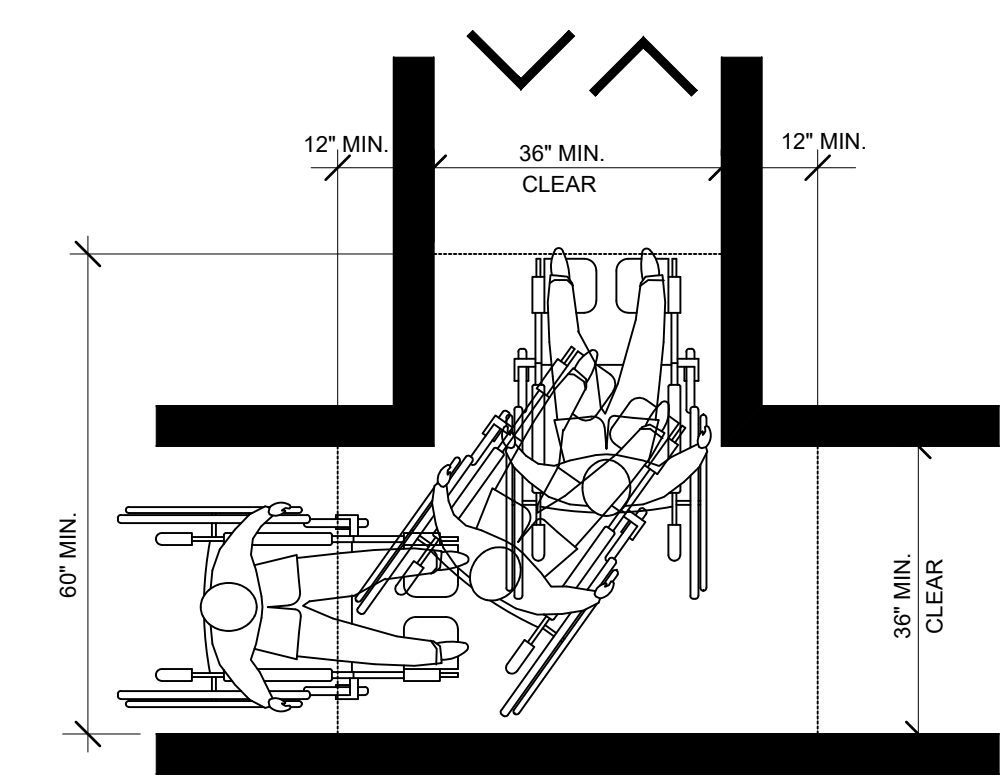
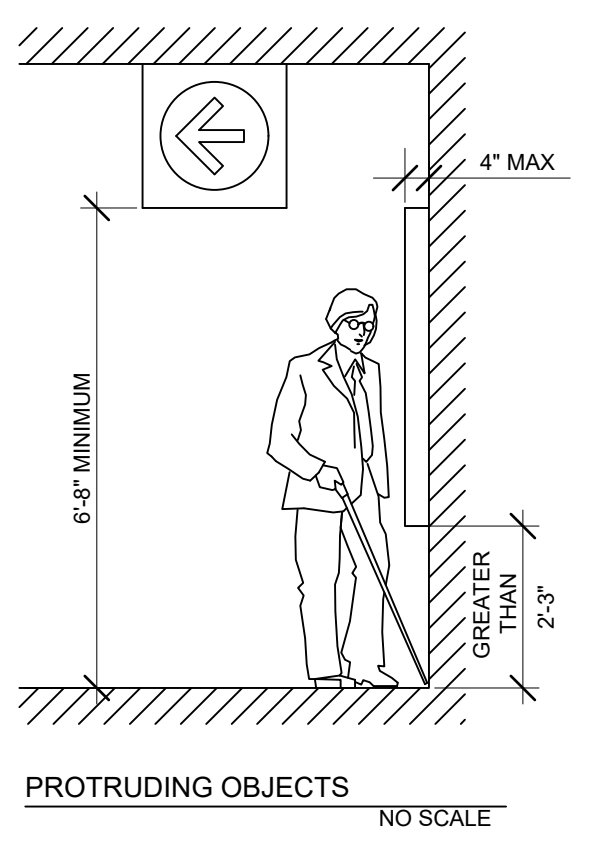
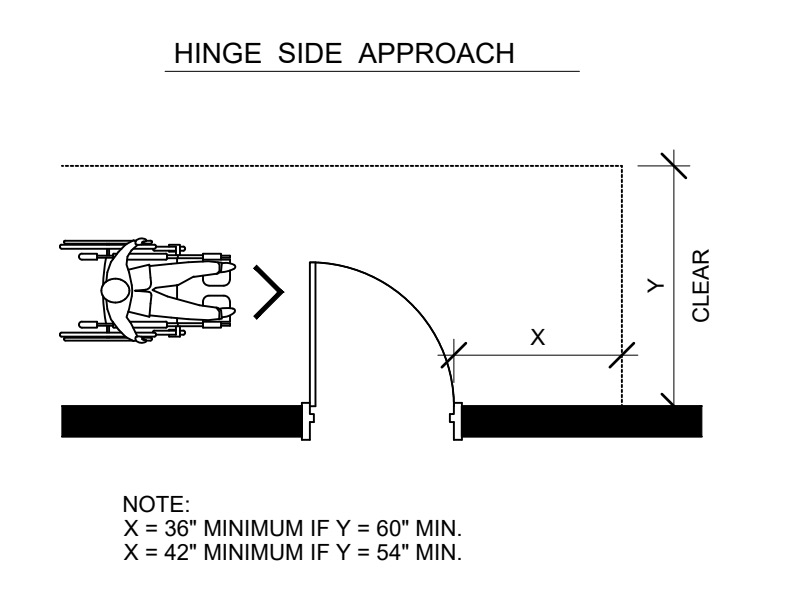
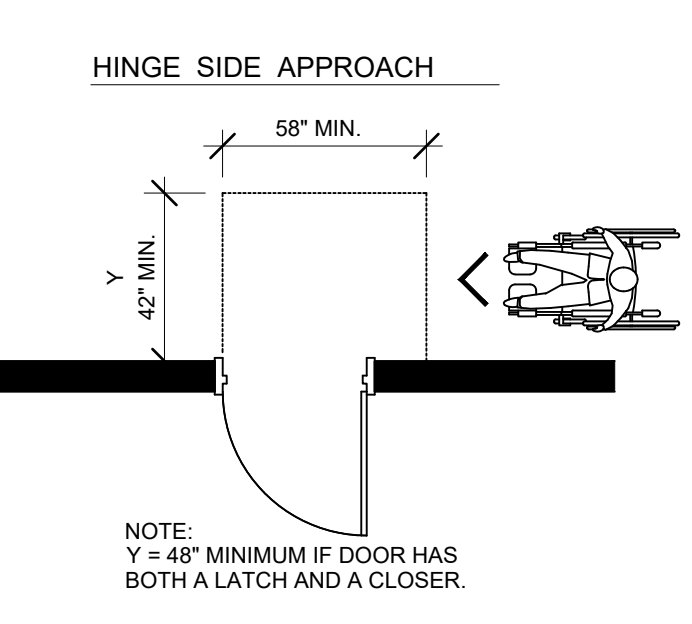
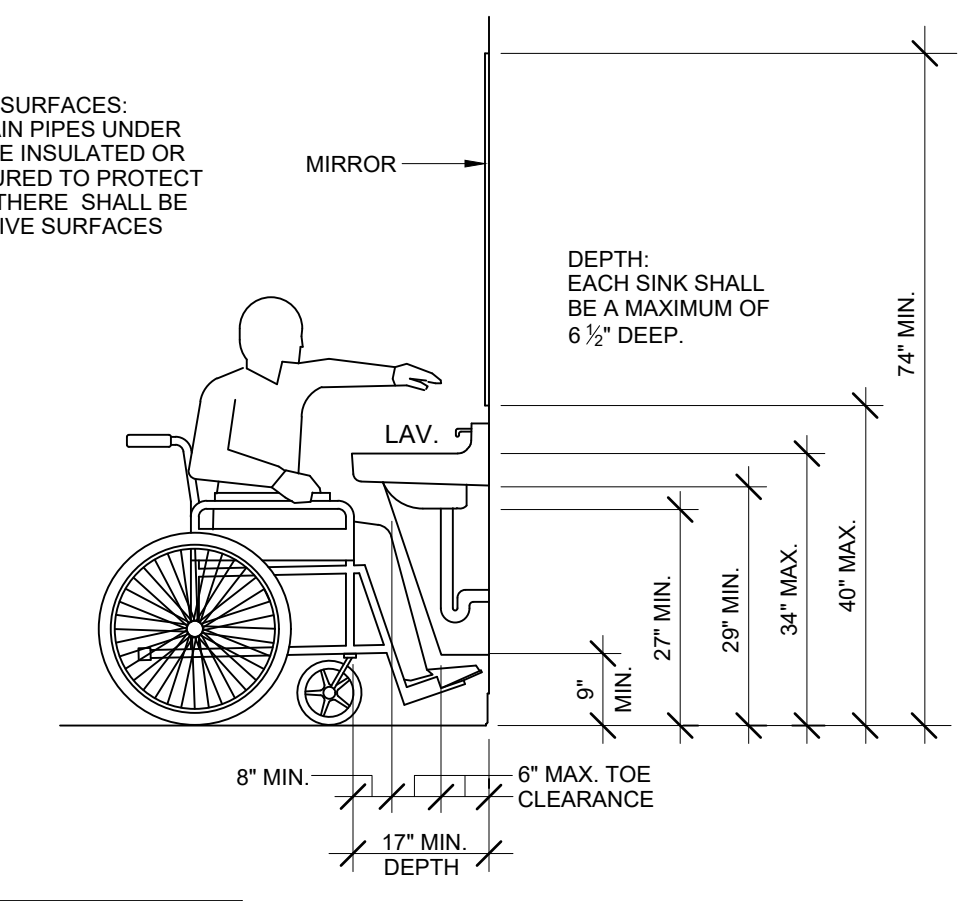
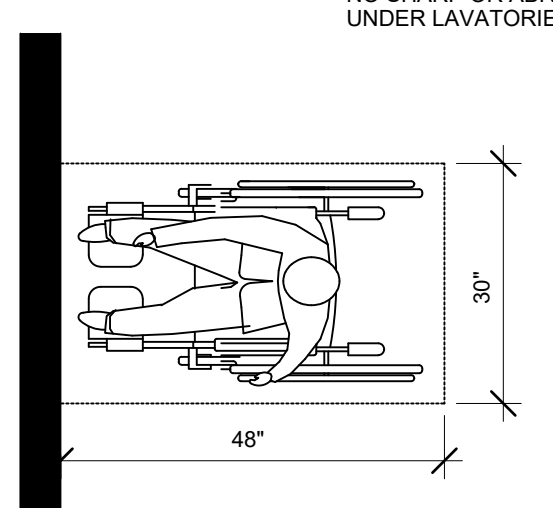
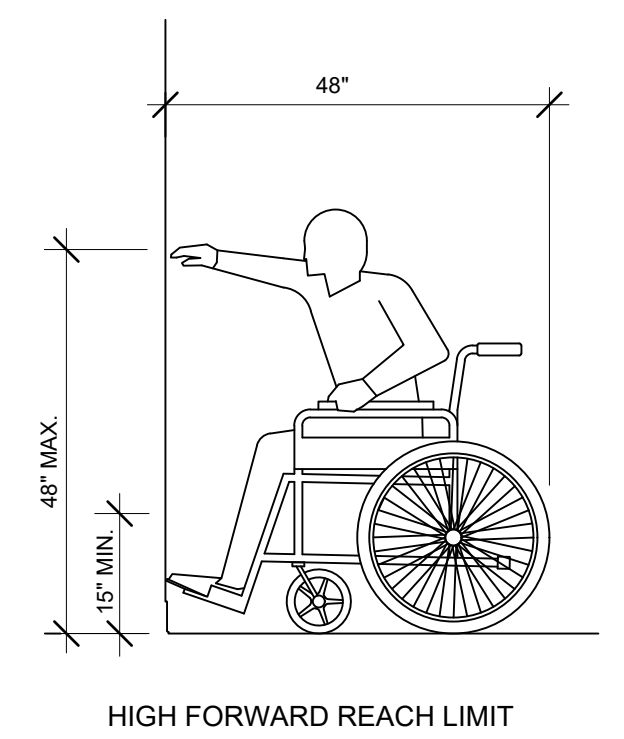
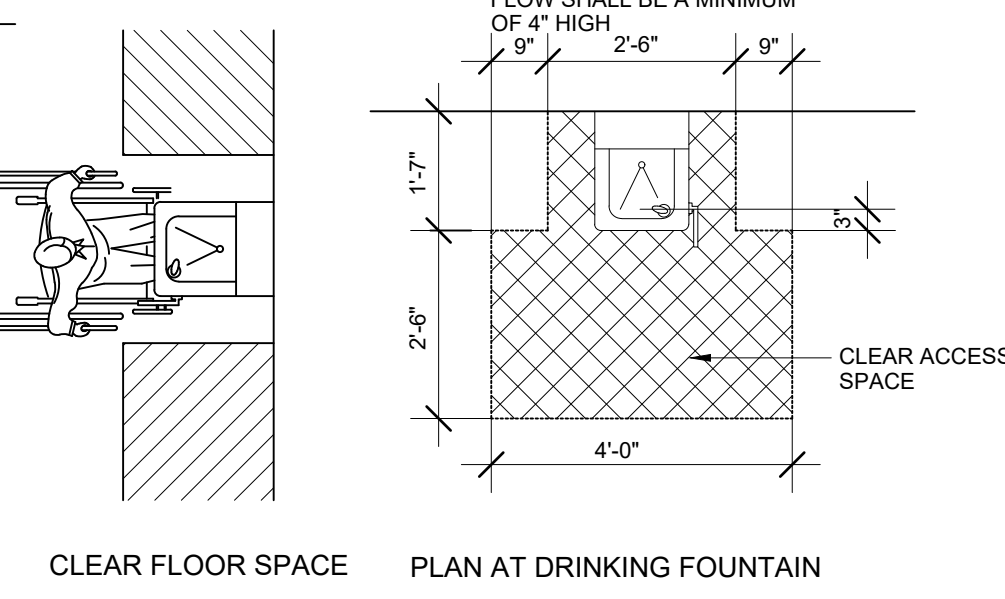
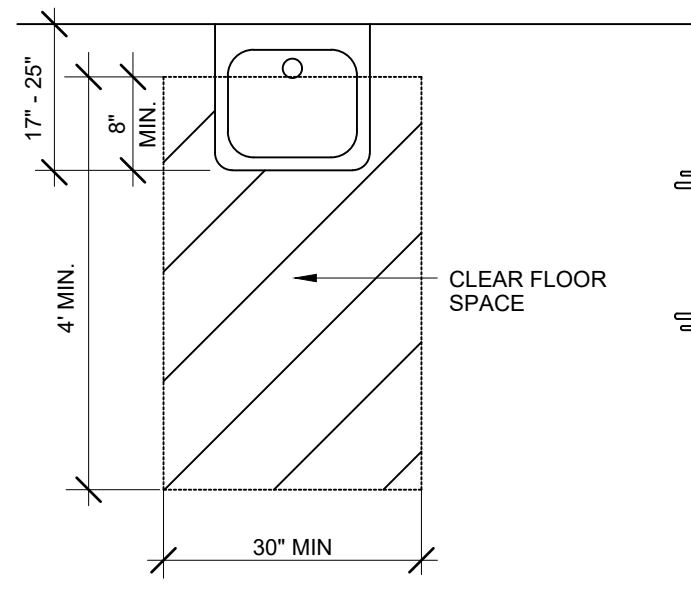
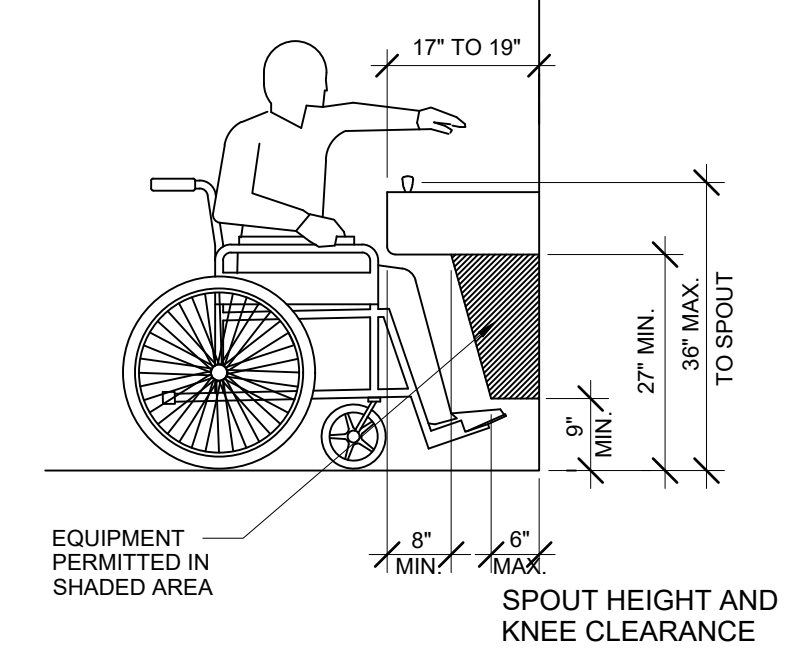
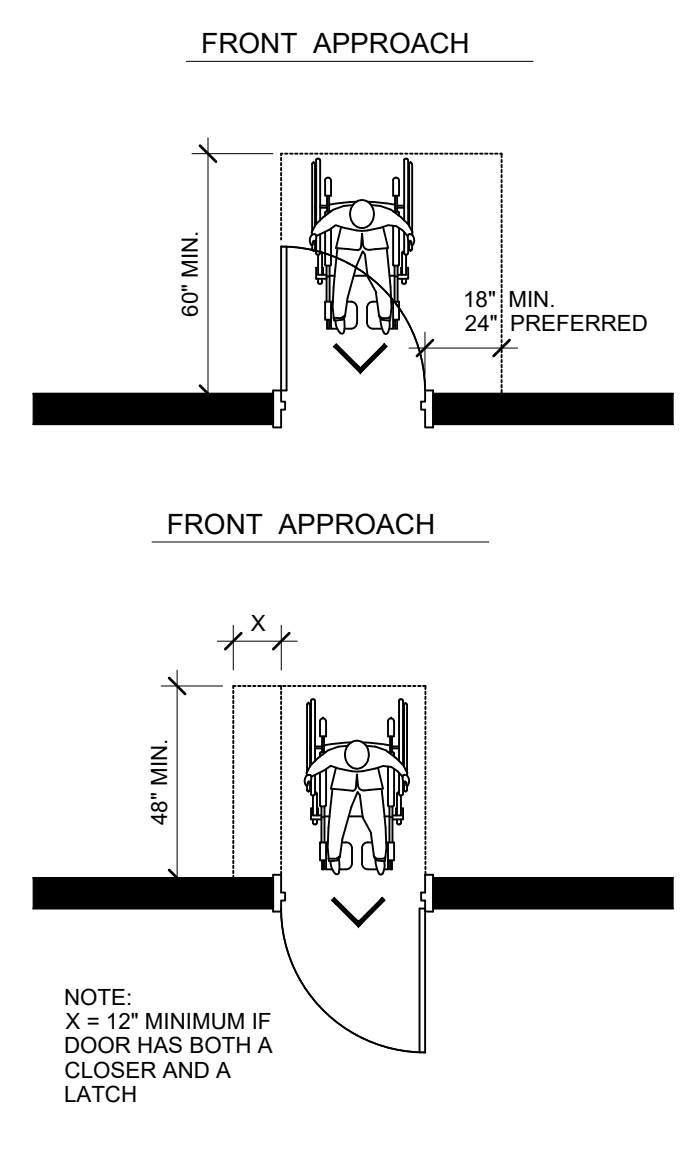
KERENS VOLUNTEER FIRE DEPARTMENT
 805 Northeast 2nd Street
 Kerens, Texas 75144

ISSUED FOR:

PRELIMINARY
 REVIEW
 PERMIT
 BIDDING
 CONSTRUCTION

PROJECT: NEW FIRE STATION
DRAWN BY: KDP
JOB NO.: 2025.11
DATE: 08/01/25
REVISION: 02/22/26

SHEET: ACCESSIBILITY

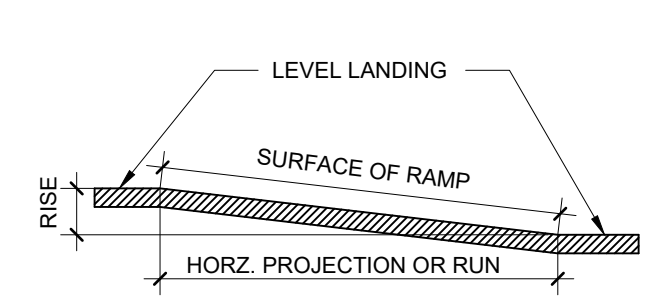


SWITCHES/RECEPTACLES (TOP)	48" MAX
SWITCHES/RECEPTACLES (BOTTOM)	15" MIN
CHALKBOARD/TACKBOARD (TOP)	76" MAX
CHALKBOARD/TACKBOARD (BOTTOM)	28" MIN
FIRE EXT. CABINET (TO HANDLE ON DOOR)	48" MAX
HANDRAIL (TOP)	34" MAX
PANIC BAR	48" MAX
TELEPHONE (TO HIGHEST OPERABLE PARTS)	48" MAX
SOAP DISPENSER (TO CONTROL)	48" MAX
TOWEL DISPENSER (TO CONTROL)	48" MAX
HAND DRYER (TO CONTROL)	48" MAX
URINAL (RIM OF BASIN FOR HANDICAPPED)	17" MAX

ADA MOUNTING HEIGHTS		
NO SCALE		

GENERAL NOTES:

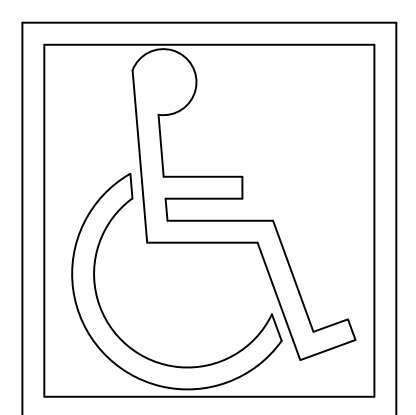
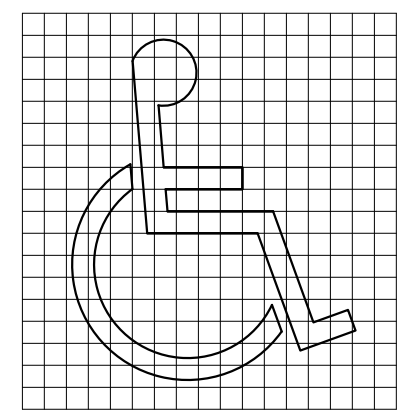
- 1/2" MAX THRESHOLD AT DOOR
- DOOR HARDWARE TO BE LEVER TYPE
- DOOR OPENING FORCE TO BE 5 LBF MAX ON INTERIOR DOORS
- DOOR TO HAVE 18" MIN CLEAR ON FULL SIDE
- DOOR TO HAVE 12" MIN CLEAR ON PUSH SIDE IF DOOR HAS BOTH CLOSER AND LATCH.
- MOUNT FLUSH CONTROLS ON WIDE SIDE OF TOILET
- SIGNAGE TO HAVE LETTERS WITH A WIDTH-TO-HEIGHT RATIO BETWEEN 3.5 & 1.1. STROKE-TO-HEIGHT RATIO BETWEEN 1.5 & 1.0. LETTERS TO BE UPPER CASE, SANS SERIF W/GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE 5/8" MIN & 2" MAX. CHARACTERS SHALL BE ON A NON-GLARE FINISH BACKGROUND AND SHALL CONTRAST WITH BACKGROUND.



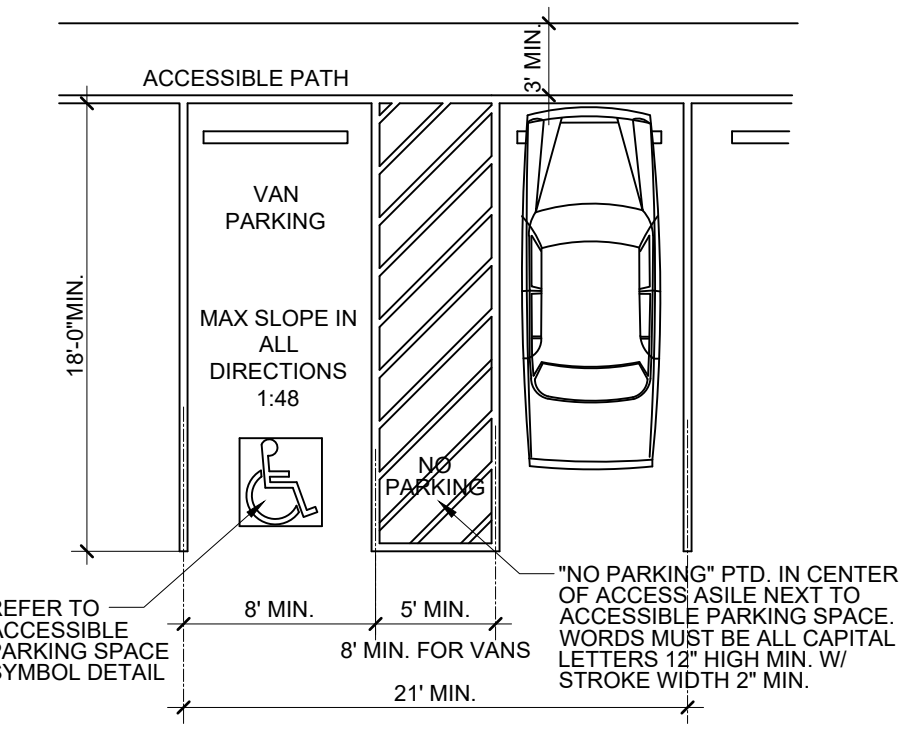
MAX RISE	MAX HORZ. PROJ.
1:12 TO 1:16	30
1:16 TO 1:20	30

NOTE:

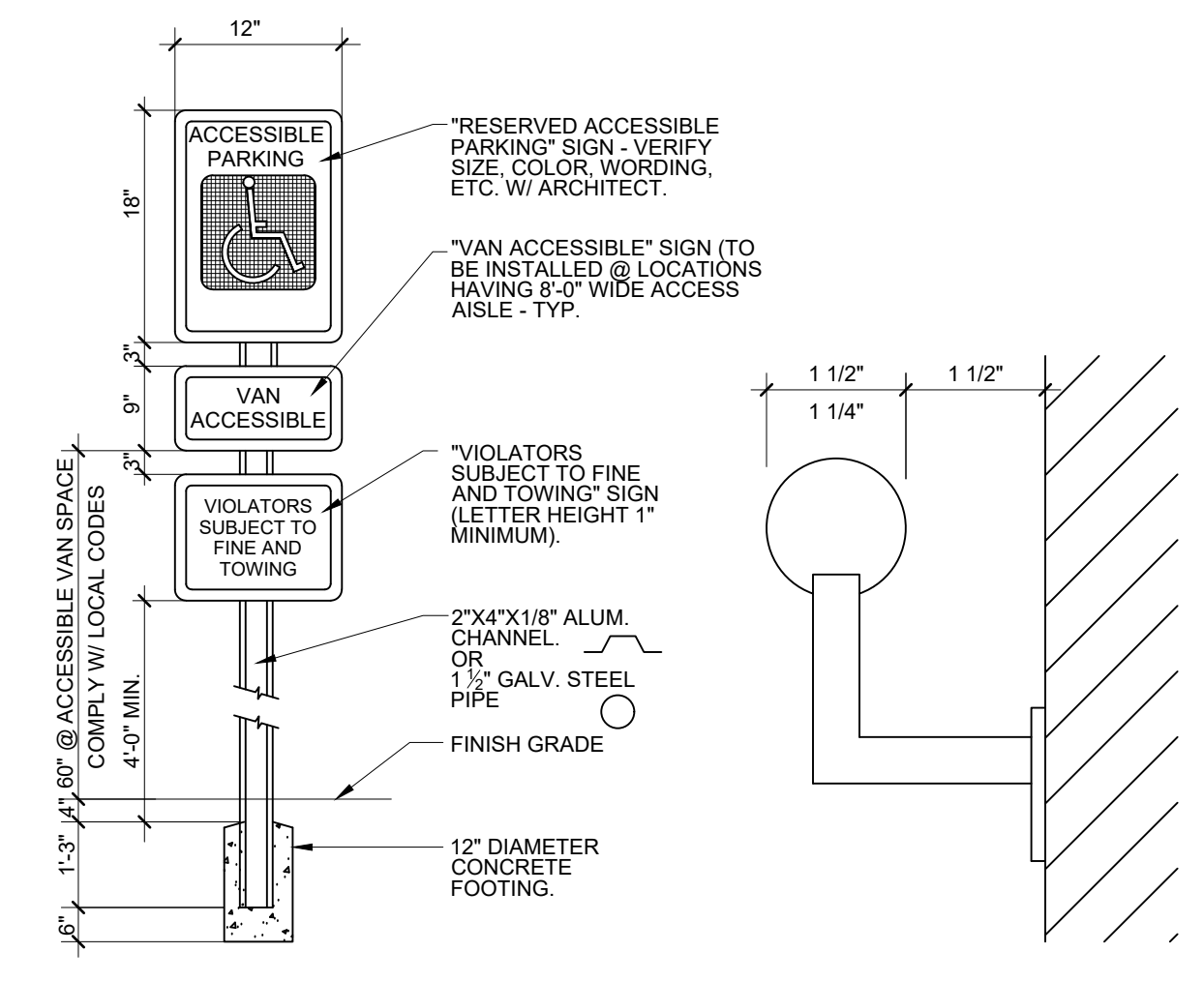
1. MAX CROSS SLOPE OF SURFACE 1:50
2. TO BE PAINTED IN CONTRASTING COLOR.
3. BROOM FINISH TEXTURE.



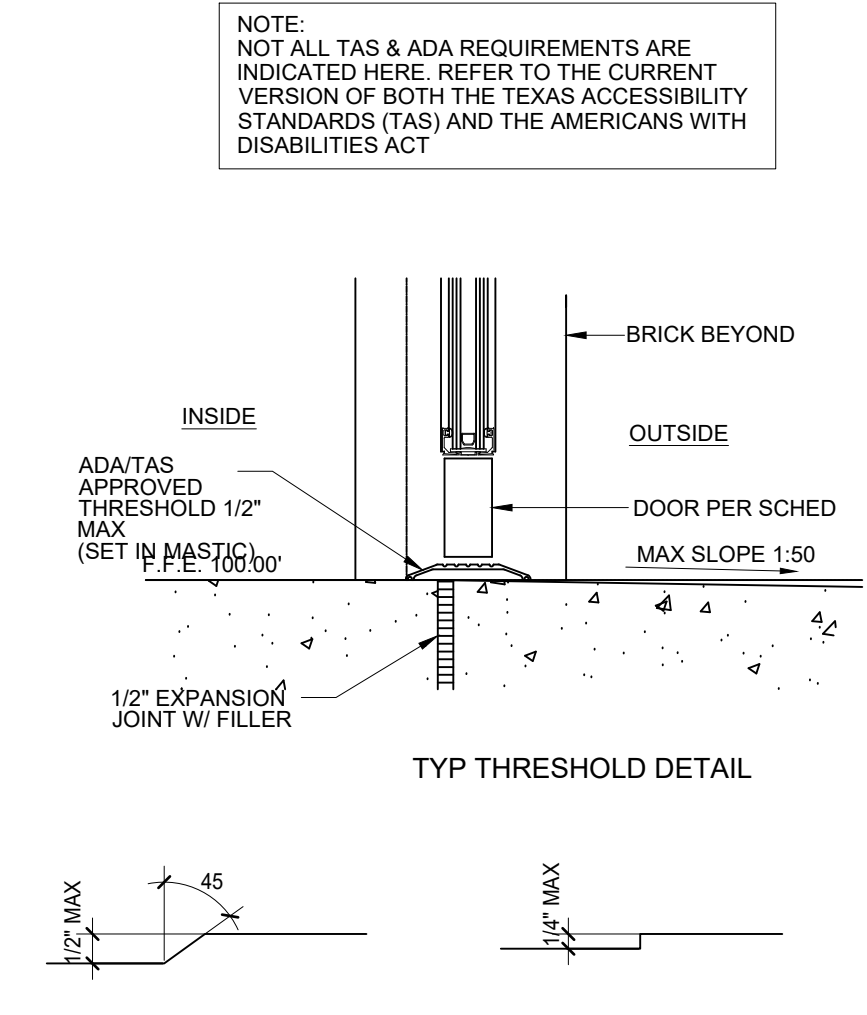
PROPORTIONS INTERNATIONAL SYMBOL OF ACCESSIBILITY



DIMENSIONS OF H.C. PARKING SPACES



SIZE AND SPACING OF HANDRAILS AND GRAB BARS



CHANGE IN FLOOR LEVEL



SEAL DATE: 08/01/2025
EXPIRATION DATE: 09/15/2026

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kyledpayne63@gmail.com

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KERENS VOLUNTEER FIRE DEPARTMENT
805 Southeast 3rd Street
Kerens, Texas 75144

ISSUED FOR:
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 CONSTRUCTION

PROJECT: NEW FIRE STATION
DRAWN BY: KDP
JOB NO.: 2025.11
DATE: 08/01/25
REVISION: 1 02/22/26

SHEET: SITE PLAN

A3

GENERAL NOTES

- FIELD VERIFY ALL ELEVATIONS, GRADES, DIMENSIONS, CONDITIONS & LOCATIONS PRIOR TO BIDDING & CONSTRUCTION.
- VERIFY ALL UNDERGROUND AND OVERHEAD UTILITIES INFORMATION PRIOR TO CONSTRUCTION.
- THE INFORMATION CONTAINED WITHIN THESE DRAWINGS ARE BASED ON AN ORIGINAL FIELD SURVEY CONDUCTED ON THE GROUND OF THIS SITE. ALL INFORMATION SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- NOTIFY THE ARCHITECT AS SOON AS POSSIBLE IN WRITING OR VIA FAX OF ANY DISCREPANCIES.
- DAMAGE TO ANY MATERIALS OR ITEMS SCHEDULED TO REMAIN DURING DEMOLITION AND/OR CONSTRUCTION WILL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- MEET ALL LOCAL BUILDING AUTHORITY REQUIREMENTS. VERIFY PRIOR TO BIDDING & CONSTRUCTION ANY CITY REQUIREMENTS INCLUDING SILT FENCING LOCATIONS.
- CONTRACTOR IS RESPONSIBLE FOR FULLY COMPLYING WITH ALL TECO EROSION AND STORM WATER POLLUTION PREVENTION PLAN REGULATIONS AND REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES UNTIL THE SITE HAS STABILIZED.
- CONTRACTOR SHALL ASSUME LIABILITY FOR ANY DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT-OF-WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL REQUIRED EROSION CONTROL MEASURES.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF 30 DAYS AFTER STABILIZATION OF ALL SURFACES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXCESS SLIT ACCUMULATION IN THE STORM WATER SYSTEM AND ALONG SLIT FENCES.
- ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED TO ENSURE COMPLIANCE WITH TECO STORM WATER POLLUTION REGULATIONS SHALL BE IMPLEMENTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- SLIT FENCING IS REQUIRED AROUND ALL STOCK PILES USED DURING CONSTRUCTION.
- ANY SLIT, MUD, DIRT, DEBRIS SHALL BE REMOVED FROM ROADWAYS, SIDEWALKS AND PUBLIC AREAS AND THESE AREAS SHALL BE KEPT CLEAN AT ALL TIMES.
- DISTURBED AREAS SHALL BE SEEDED OR FULLY SOLED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL REMOVE ANY PAVING ACCORDING TO TXDOT STANDARDS.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS AND DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE GENERAL PUBLIC DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS REGARDING THE REMOVAL OF EXISTING BUILDINGS OR STRUCTURES, CONTENTS AND ASSOCIATED APPURTENANCES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND TERMINATION OF ALL UTILITIES PRIOR TO DEMOLITION AND CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL NOT INTERFERE WITH OR IMPEDE NORMAL OPERATIONS OF THE SCHOOL DISTRICT.
- THE LIMITS OF CONSTRUCTION SHOWN ON THESE PLANS ARE FOR REFERENCE PURPOSES ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION STAKING.
- THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF QUESTIONABLE MATERIALS WITH THE APPROPRIATE PARTIES PRIOR TO DEMOLITION.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS.
- ALL CURB RADI SHOWN ARE TO BACK OR CURB, WHERE APPLICABLE, OR TO THE EDGE OF PAVEMENT WHEN NO CURB IS INDICATED, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT. FLUSH AT ALL POINTS OF CONTACT.
- THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- ADJUST PAVEMENT AND/OR CURB ELEVATIONS AS NECESSARY TO ASSURE A SMOOTH FIT & CONTINUOUS GRADE WITH THE EXISTING.
- ALL NEW SEWER UTILITY LINES TO BE UNDERGROUND W/ TRENCH BACKFILLED & COMPACTED TO 95% STANDARD PROCTOR - TYP.
- BUILD UP NEW BUILDING PAD AS REQUIRED. GRADE AROUND BUILDING MUST BE WITHIN 6" OF FINISHED FLOOR AND SLOPE AWAY FROM BUILDING TO DRAIN. SLOPE MUST BE GRADUAL TO ALLOW FOR LANDSCAPING AND MOWING.
- HYDRO-SEED OR HYDRO MULCH DISTURBED AREAS AROUND BUILDING AS REQUIRED TO COVER DISTURBED & NEW SOIL - TYP.

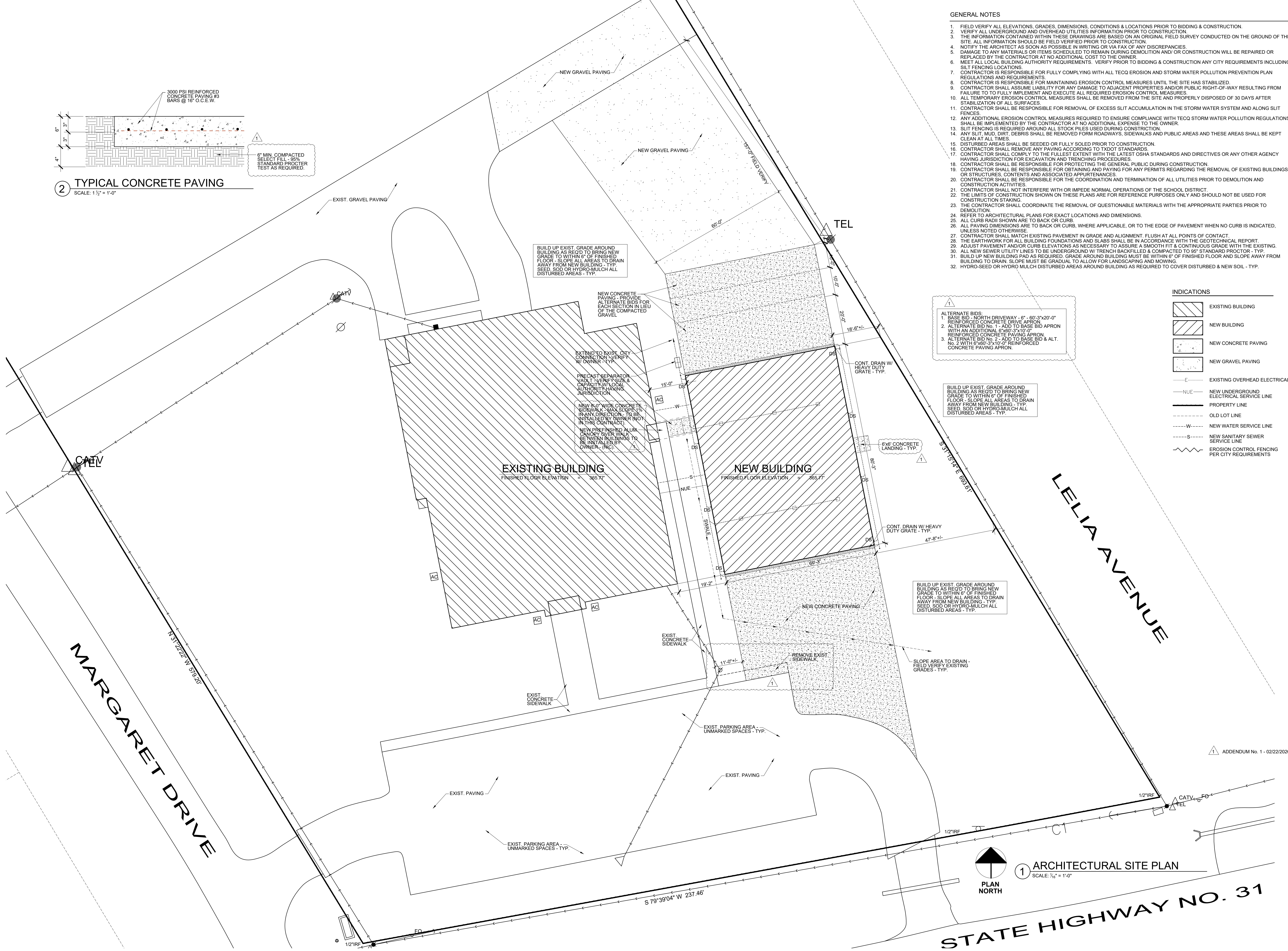
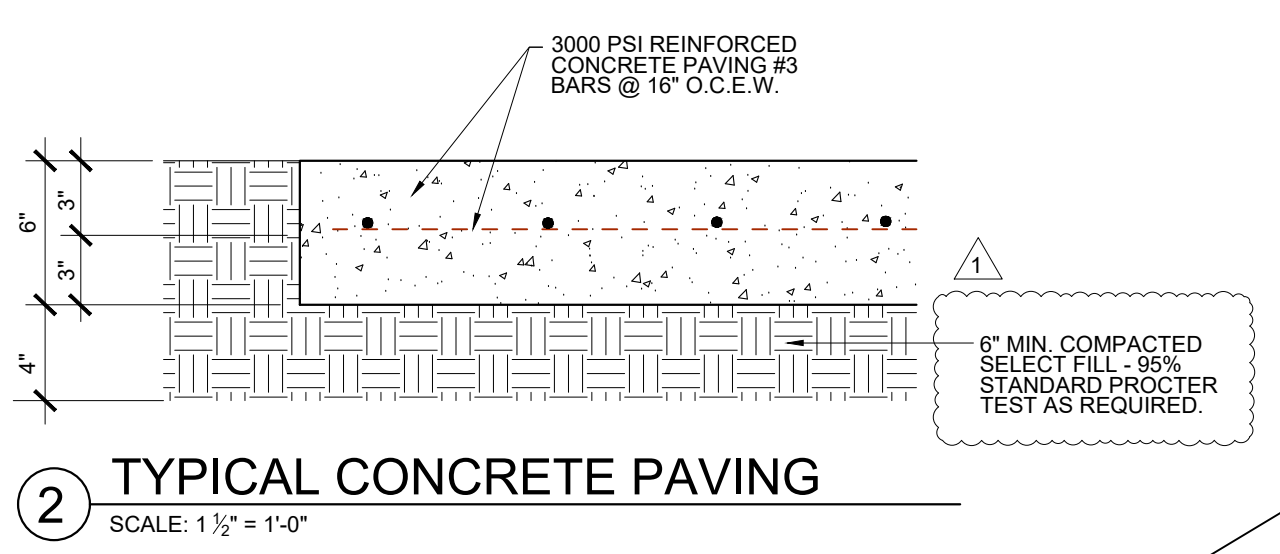
INDICATIONS

- EXISTING BUILDING
- NEW BUILDING
- NEW CONCRETE PAVING
- NEW GRAVEL PAVING
- EXISTING OVERHEAD ELECTRICAL
- NEW UNDERGROUND ELECTRICAL SERVICE LINE
- PROPERTY LINE
- OLD LOT LINE
- NEW WATER SERVICE LINE
- NEW SANITARY SEWER SERVICE LINE
- EROSION CONTROL FENCING PER CITY REQUIREMENTS

ALTERNATE BIDS:
 1. BASE BID - NORTH DRIVEWAY - 6" - 60'-3"x20'-0" REINFORCED CONCRETE DRIVE APRON.
 2. ALTERNATE BID NO. 1 - ADD TO BASE BID APRON WITH AN ADDITIONAL 6"x60'-3"x10'-0" REINFORCED CONCRETE PAVING APRON.
 3. ALTERNATE BID NO. 2 - ADD TO BASE BID & ALT. NO. 2 WITH 6"x60'-3"x10'-0" REINFORCED CONCRETE PAVING APRON.

BUILD UP EXIST. GRADE AROUND BUILDING AS REQ'D TO BRING NEW GRADE TO WITHIN 6" OF FINISHED FLOOR - SLOPE ALL AREAS TO DRAIN AWAY FROM NEW BUILDING - TYP. SEED, SOD OR HYDRO-MULCH ALL DISTURBED AREAS - TYP.

BUILD UP EXIST. GRADE AROUND BUILDING AS REQ'D TO BRING NEW GRADE TO WITHIN 6" OF FINISHED FLOOR - SLOPE ALL AREAS TO DRAIN AWAY FROM NEW BUILDING - TYP. SEED, SOD OR HYDRO-MULCH ALL DISTURBED AREAS - TYP.



ADDENDUM No. 1 - 02/22/2026



SEAL DATE: 08.01.2025
EXPIRATION DATE: 09.15.2025

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(937) 714-1841 CELL
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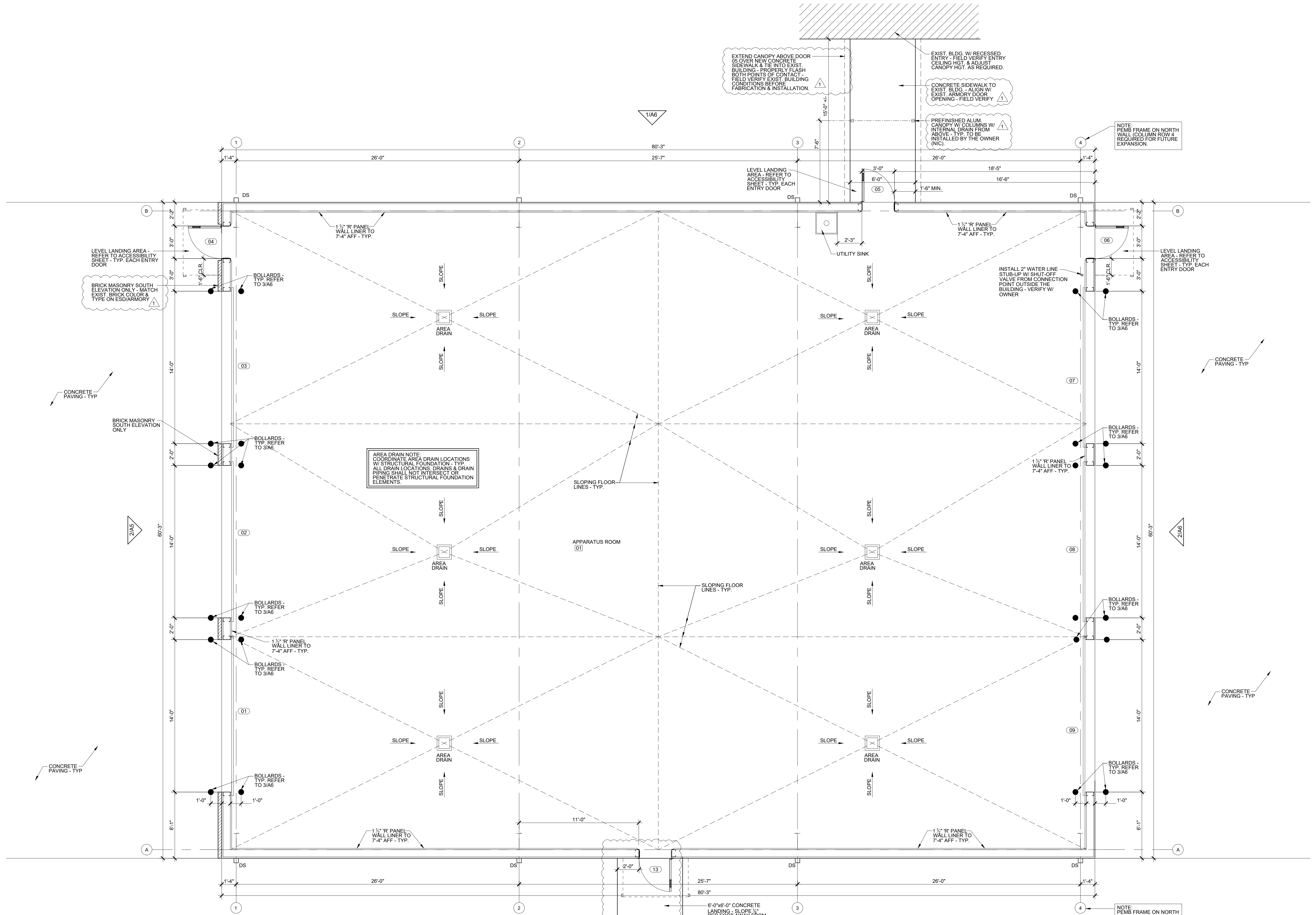
**KERENS VOLUNTEER
FIRE DEPARTMENT**
805 Northeast 2nd Street
Kerens, Texas 75144

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PROJECT: NEW FIRE STATION
DRAWN BY: KDP
JOB NO.: 2025.11
DATE: 08/01/25
REVISION: 08/15/25

SHEET: FLOOR PLAN

A4



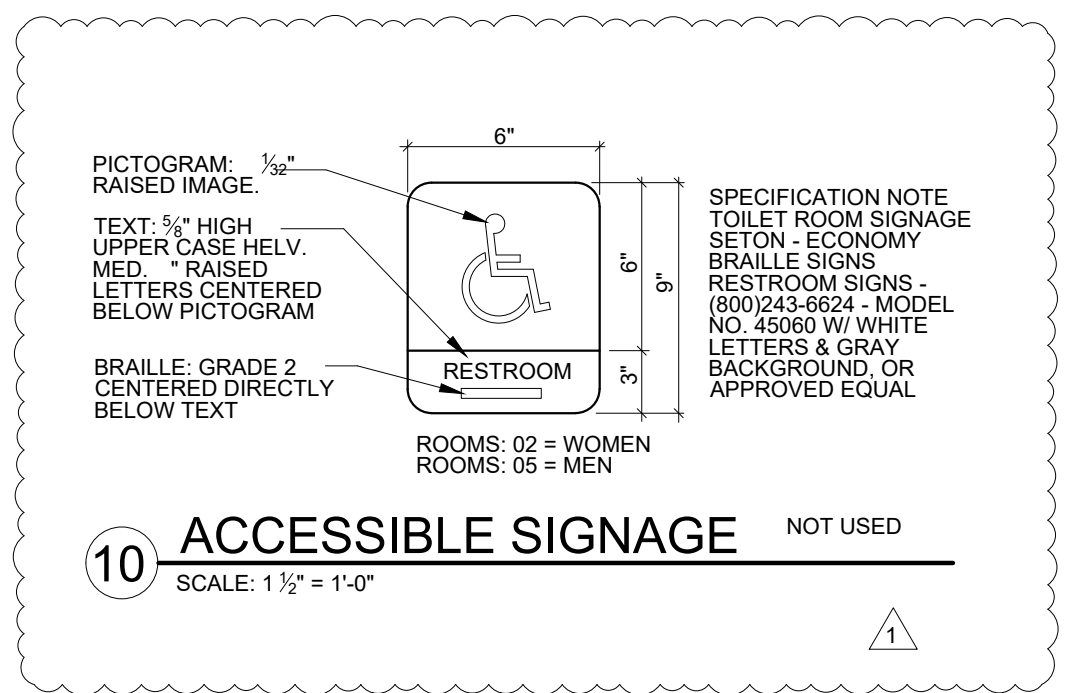
1 FLOOR PLAN
SCALE: 1/4" = 1'-0"
PLAN NORTH

NOTE: OWNER TO INSTALL WALL INSULATION AND WALL LINER PANELS IN A FUTURE PHASE - VERIFY

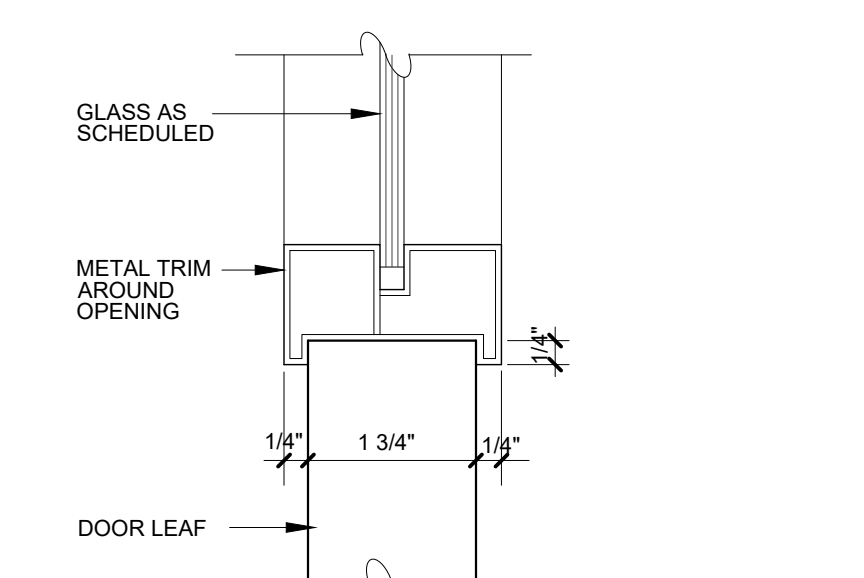
NOTE: REFER TO SHEET A7 FOR ADDITIONAL PLUMBING & ELECTRICAL INFORMATION.

NOTE: PEMB FRAME ON NORTH WALL (COLUMN ROW 4) REQUIRED FOR FUTURE EXPANSION.

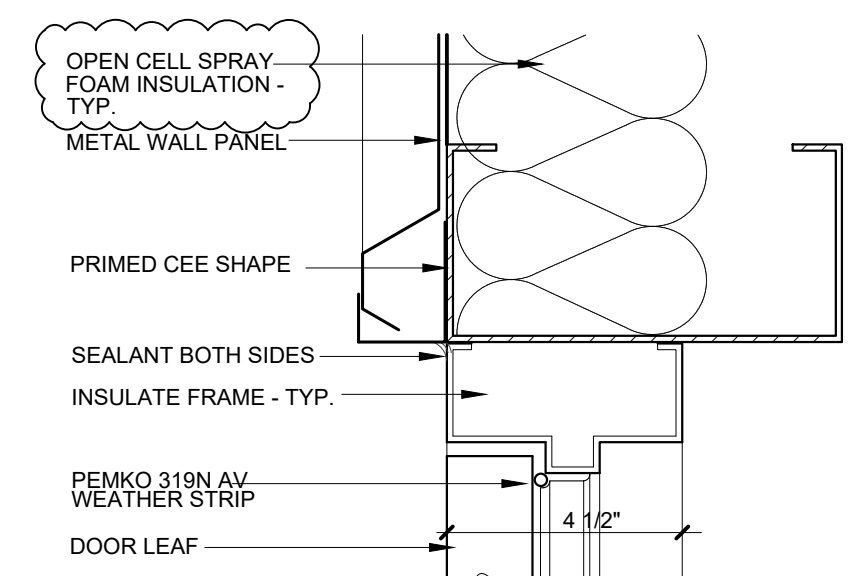
ADDENDUM NO.1 - 08.15.25



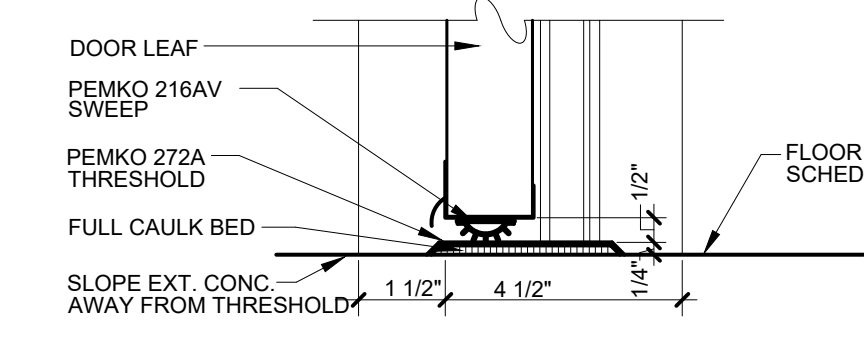
10 ACCESSIBLE SIGNAGE NOT USED
SCALE: 1 1/2" = 1'-0"



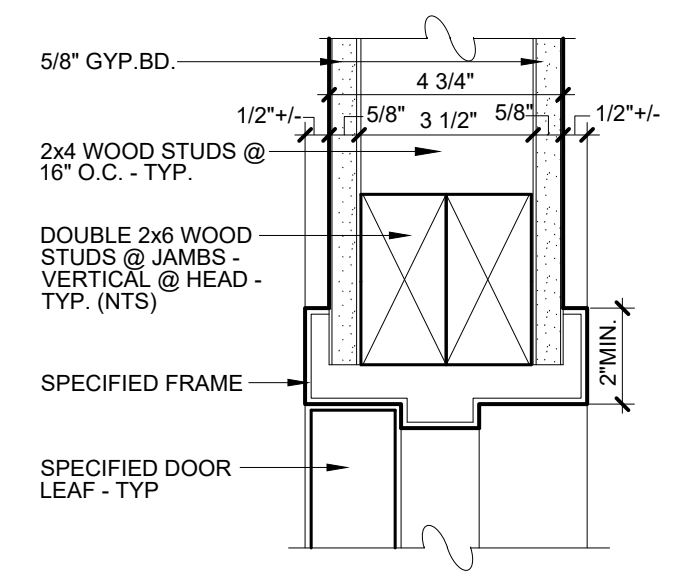
9 VIEW PANEL
SCALE: 3" = 1'-0"



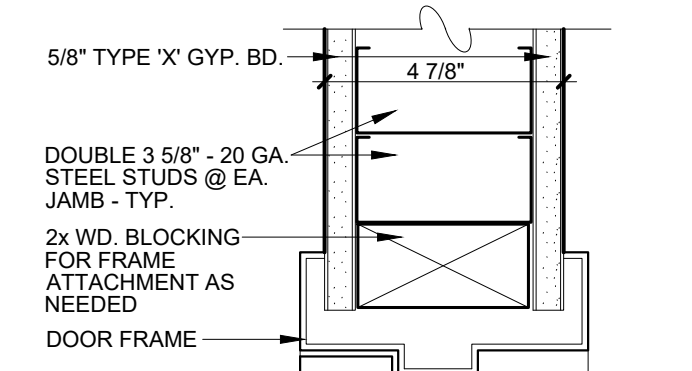
7 DOOR HEAD / SILL
SCALE: 3" = 1'-0"



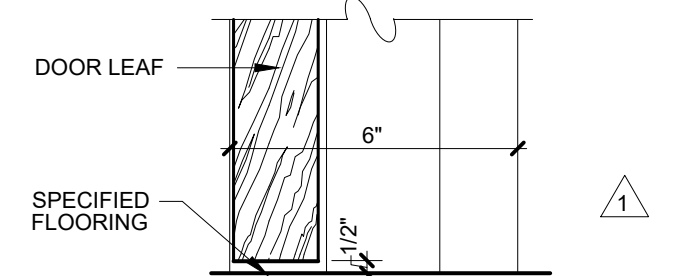
5 DOOR SILL
SCALE: 3" = 1'-0"



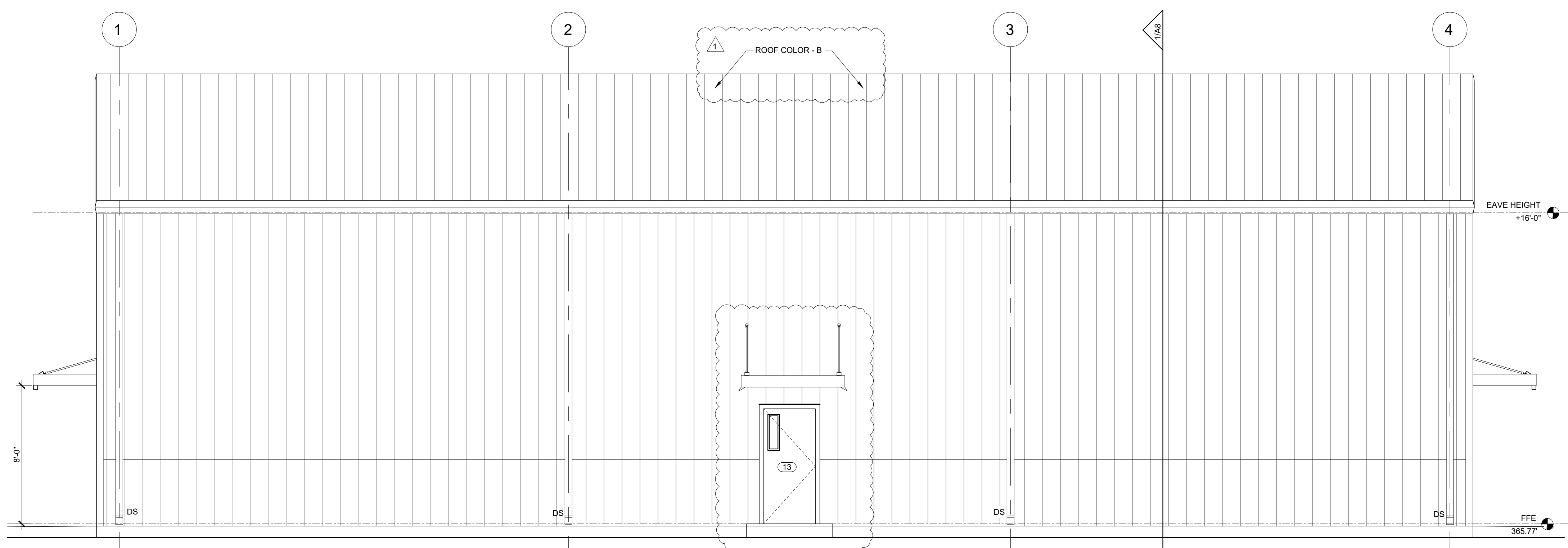
8 DOOR HEAD NOT USED
SCALE: 3" = 1'-0"



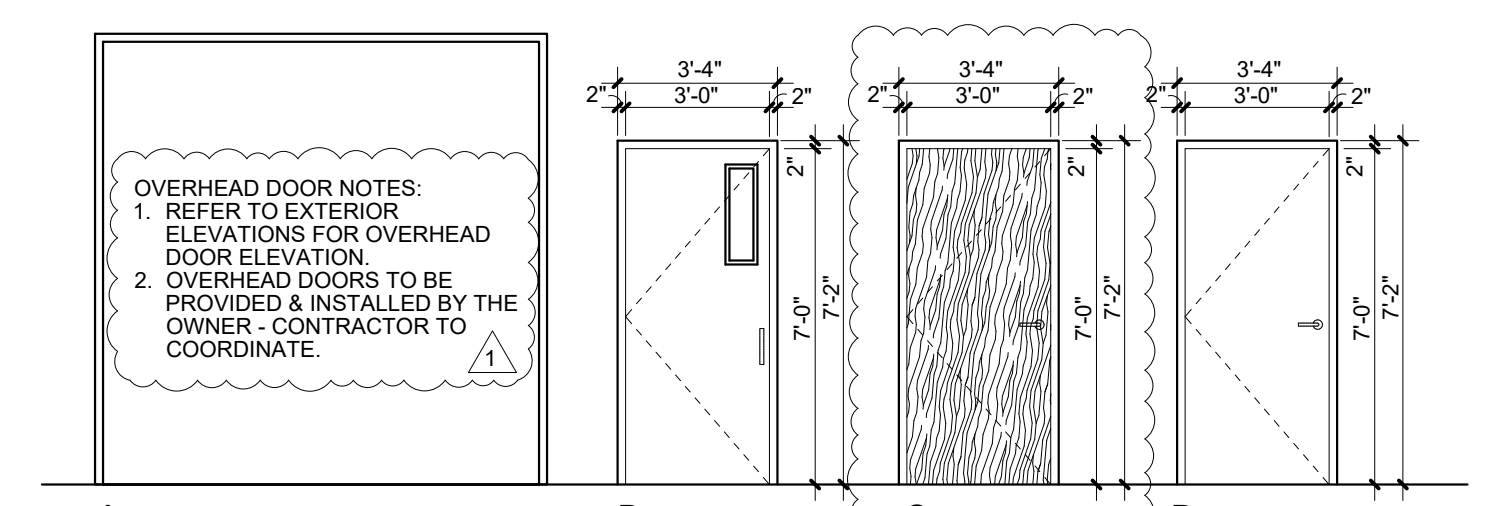
6 DOOR JAMB NOT USED
SCALE: 3" = 1'-0"



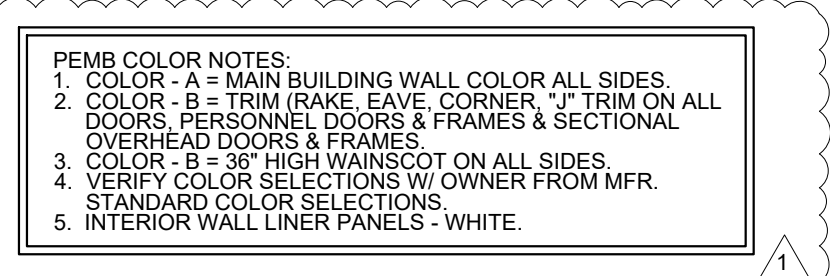
4 DOOR SILL NOT USED
SCALE: 3" = 1'-0"



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

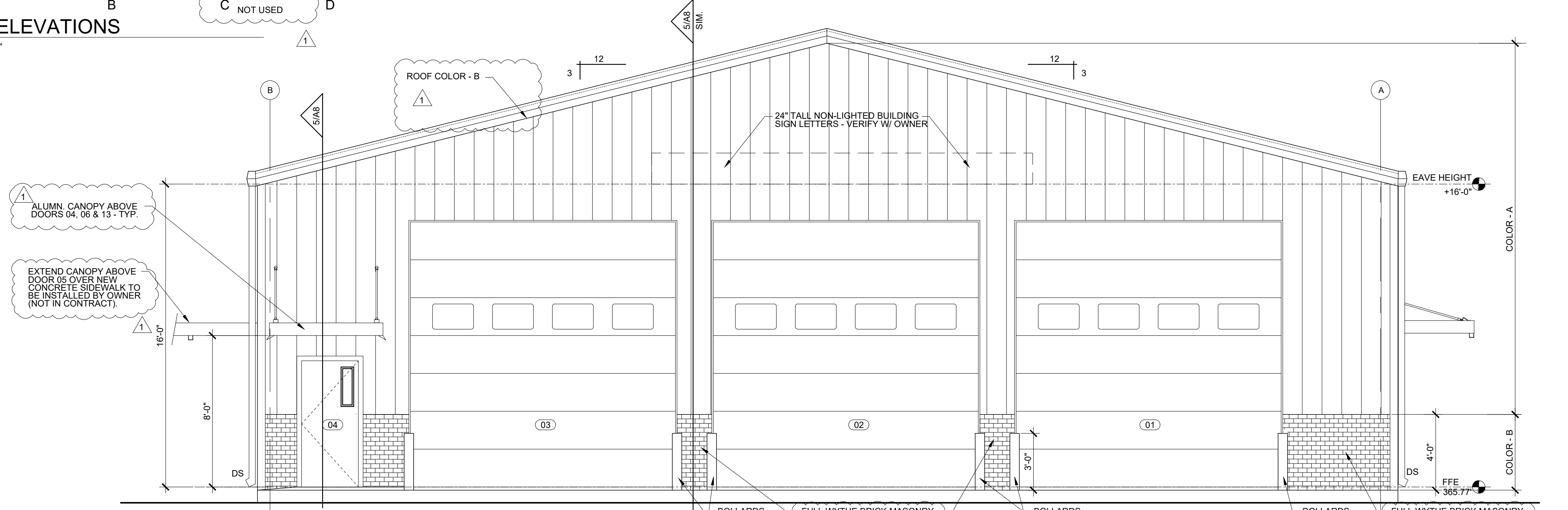


3 DOOR ELEVATIONS
SCALE: 1/2" = 1'-0"

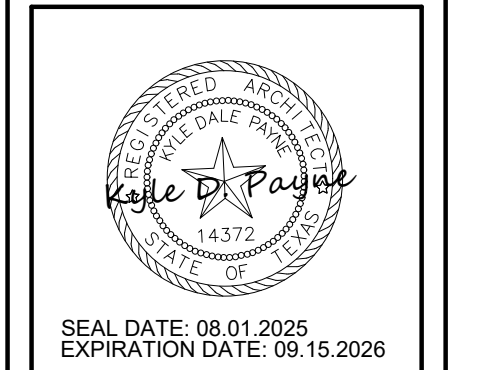


MK.	TYPE	SIZE	THK.	MATERIAL	GLAZE	FRAME	DETAILS				REMARKS
							HEAD	JAMB	SILL	LITE	
01	A	14'-0"x14'-0"	2"	SECTIONAL OVERHEAD		METAL					4,6,10,11,12
02	A	14'-0"x14'-0"	2"	SECTIONAL OVERHEAD		METAL					4,6,10,11,12
03	A	14'-0"x14'-0"	2"	SECTIONAL OVERHEAD		METAL					4,6,10,11,12
04	B	3'-0"x7'-0"	1 1/2"	HOLLOW METAL		HOLLOW METAL	7/A5	7/A5	5/A5	9/A5	1,2,3,4,5,6,10,11
05	B	3'-0"x7'-0"	1 1/2"	HOLLOW METAL		HOLLOW METAL	7/A5	7/A5	5/A5	9/A5	1,2,3,4,5,6,10,11
06	B	3'-0"x7'-0"	1 1/2"	HOLLOW METAL		HOLLOW METAL	7/A5	7/A5	5/A5	9/A5	1,2,3,4,5,6,10,11
07	A	14'-0"x14'-0"	2"	SECTIONAL OVERHEAD		METAL					4,6,10,11,12
08	A	14'-0"x14'-0"	2"	SECTIONAL OVERHEAD		METAL					4,6,10,11,12
09	A	14'-0"x14'-0"	2"	SECTIONAL OVERHEAD		METAL					4,6,10,11,12
10	C	3'-0"x7'-0"	1 1/2"	S.C. WOOD		HOLLOW METAL	8/A5	6/A5	4/A5		1,7,9
11	C	3'-0"x7'-0"	1 1/2"	S.C. WOOD		HOLLOW METAL	8/A5	6/A5	4/A5		1,8,9
12	C	3'-0"x7'-0"	1 1/2"	S.C. WOOD		HOLLOW METAL	8/A5	6/A5	4/A5		1,8,9
13	B	3'-0"x7'-0"	1 1/2"	HOLLOW METAL		HOLLOW METAL	7/A5	7/A5	5/A5	9/A5	1,2,3,4,5,6,10,11

- DOOR SCHEDULE NOTES:**
1. PROVIDE & INSTALL DOOR CLOSER.
 2. PROVIDE & INSTALL PANIC DEVICE.
 3. PROVIDE & INSTALL ACCESSIBLE THRESHOLD.
 4. PROVIDE & INSTALL WEATHERSTRIPPING.
 5. PROVIDE & INSTALL LEVER HANDLE LOCKSET.
 6. PROVIDE & INSTALL GLASS VIEW PANEL.
 7. PROVIDE & INSTALL PUSH / PULL HANDLES.
 8. PROVIDE & INSTALL LEVER HANDLE PRIVACY LOCKSET.
 9. PROVIDE WALL STOP / BUMPER.
 10. OWNER WILL PROVIDE & INSTALL ALL FINAL DOOR CYLINDERS AS PART OF THE BUILDING FINAL. CONTRACTOR SHALL PROVIDE CONSTRUCTION LOCK CYLINDERS AS INDICATED DURING CONSTRUCTION.
 11. SECTIONAL OVERHEAD DOORS TO HAVE ELECTRIC OPERATOR W/ PUSH BUTTON CONTROLS - OWNER WILL PROVIDE & INSTALL.
 12. ALL DOOR HARDWARE MUST BE PROVIDED WITH INTERCHANGEABLE LOCK CYLINDERS - VERIFY TYPE W/ OWNER.



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



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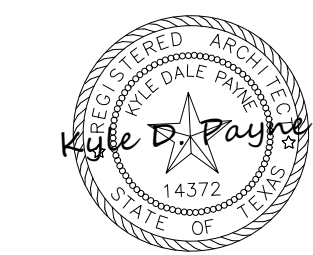
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 - BIDDING
 - CONSTRUCTION

PROJECT: NEW FIRE STATION
DRAWN BY: KDP
JOB NO.: 2025.11
DATE: 08/01/25
REVISION: 02/22/26

SHEET: ELEVATIONS



ADDENDUM NO.1 - 02/22/2026



SEAL DATE: 08.01.2025
EXPIRATION DATE: 09.15.2026

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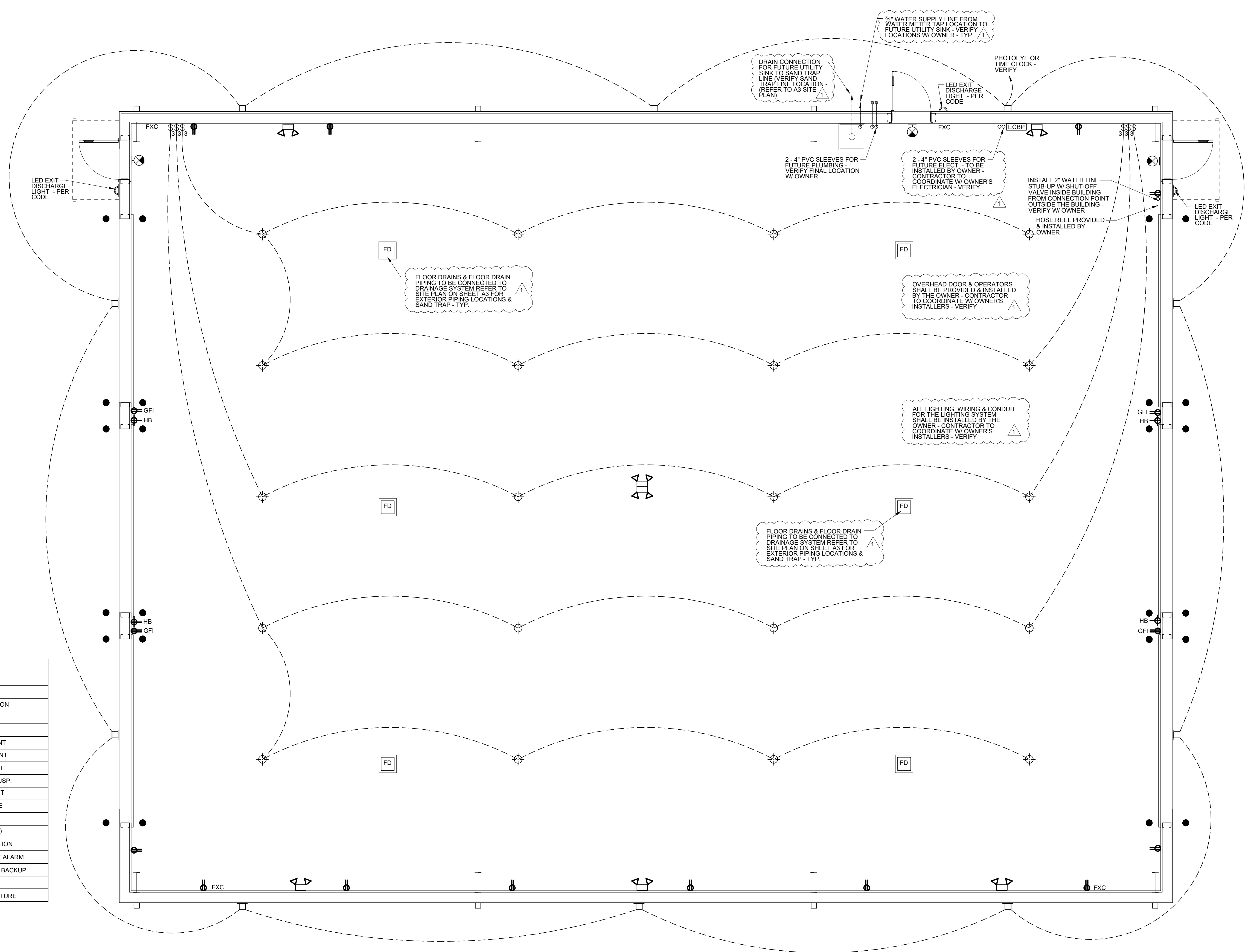
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PROJECT: NEW FIRE STATION
DRAWN BY: KDP
JOB NO.: 2025.11
DATE: 08/01/25
REVISION: 02/22/26

SHEET: DEVICE PLAN



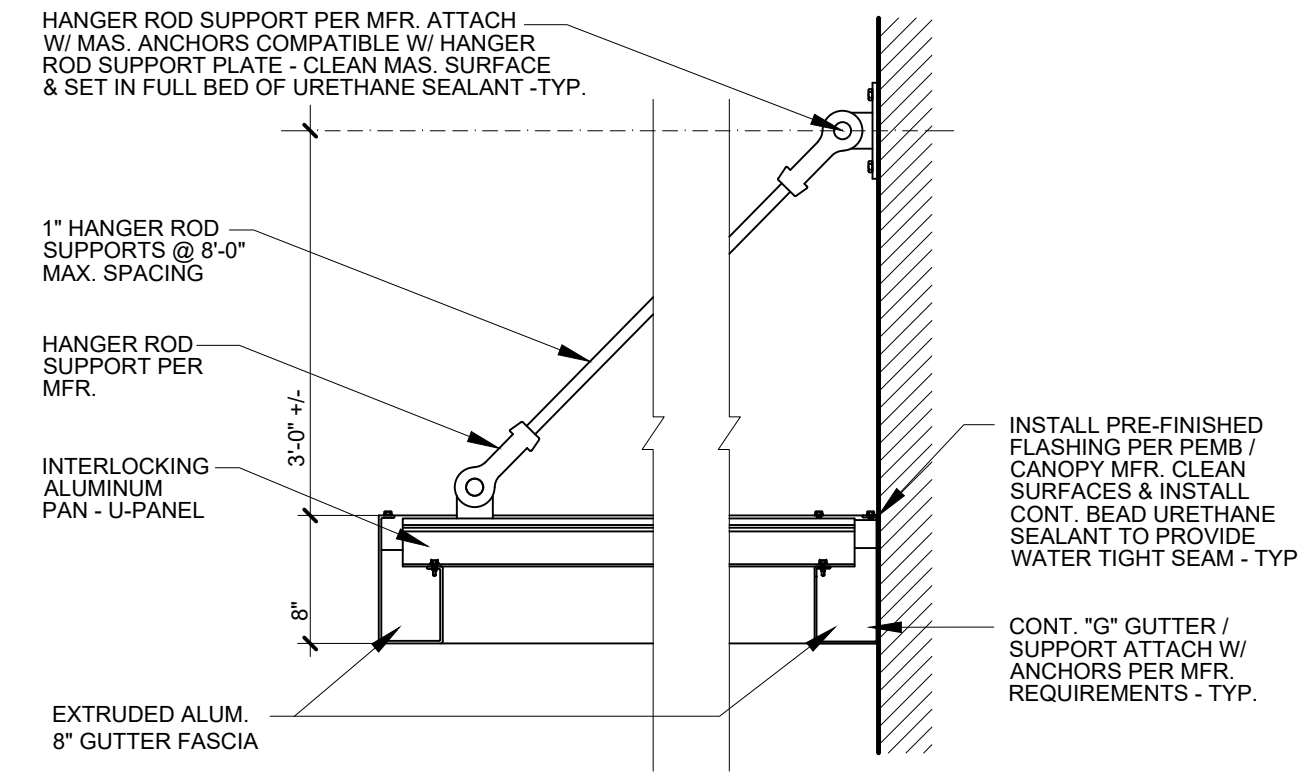
DEVICE SYMBOLS			
[SWITCH]	SWITCH WIRING	[FACP]	FIRE ALARM CONTROL PANEL
[ECBP]	ELECTRIC CIRCUIT BREAKER PANEL	[S]	FIRE ALARM STROBE / HORN
[J]	JUNCTION BOX WITH CONDUIT TO ATTIC	[FD]	FIRE ALARM EMERGENCY PULL STATION
[R]	120 V WALL DUPLEX RECEPTACLE	[H]	FIRE ALARM EXTERIOR HORN
[GFI]	GROUND FAULT INTERRUPTER RECEPT.	[S]	HEAT/SMOKE/RADON DETECTOR
[42]	120 V DUPLEX RECEPT. W/ HGT. A.F.F.	[M]	MECHANICAL SUPPLY - CEILING MOUNT
[WP]	WATERPROOF RECEPTACLE	[R]	MECHANICAL RETURN - CEILING MOUNT
[240]	240 V WALL DUPLEX RECEPTACLE	[E]	EMERGENCY BATTERY BACK UP LIGHT
[4]	120 V FOURPLEX RECEPTACLE	[L]	LIGHT FIXTURE (LED) SURFACE OR SUSP.
[IG]	ISOLATED GROUND	[E]	EMERGENCY BATTERY BACK-UP LIGHT
[D]	ELECTRICAL DISCONNECT	[C]	LED CAN LIGHT FIXTURE - DIMMABLE
[HB]	HOSE BIBB - WASHER CONNECTIONS	[D]	SUSPENDED DECORATIVE FIXTURE
[HEAT]	WALL MTD. ELECT. HEATER W/ T-STAT	[L]	LED LIGHT FIXTURE - WALL MTD. (TBS)
[FXC]	FIRE EXTINGUISHER IN WALL MTD. W/ CABINET	[S]	SINGLE POLE SWITCH - VERIFY LOCATION
[V]	DRYER VENT W/ EXT. OUTLET & SCREEN	[CO2]	CO2 DETECTOR W/ AUDIBLE / STROBE ALARM
[D]	DATA / COMMUNICATION / NETWORK	[E]	EMERGENCY EXIT LIGHT W/ BATTERY BACKUP
[L]	LED SECURITY LIGHT - MTD. 10'-0" AFF MIN. ON PHOTOEYE	[FAN]	EXHAUST FAN / ELECTRIC MOTOR
		[HBS]	HIGH BAY SUSPENDED LED LIGHT FIXTURE

NOTE:
NOT ALL SYMBOLS ARE USED.

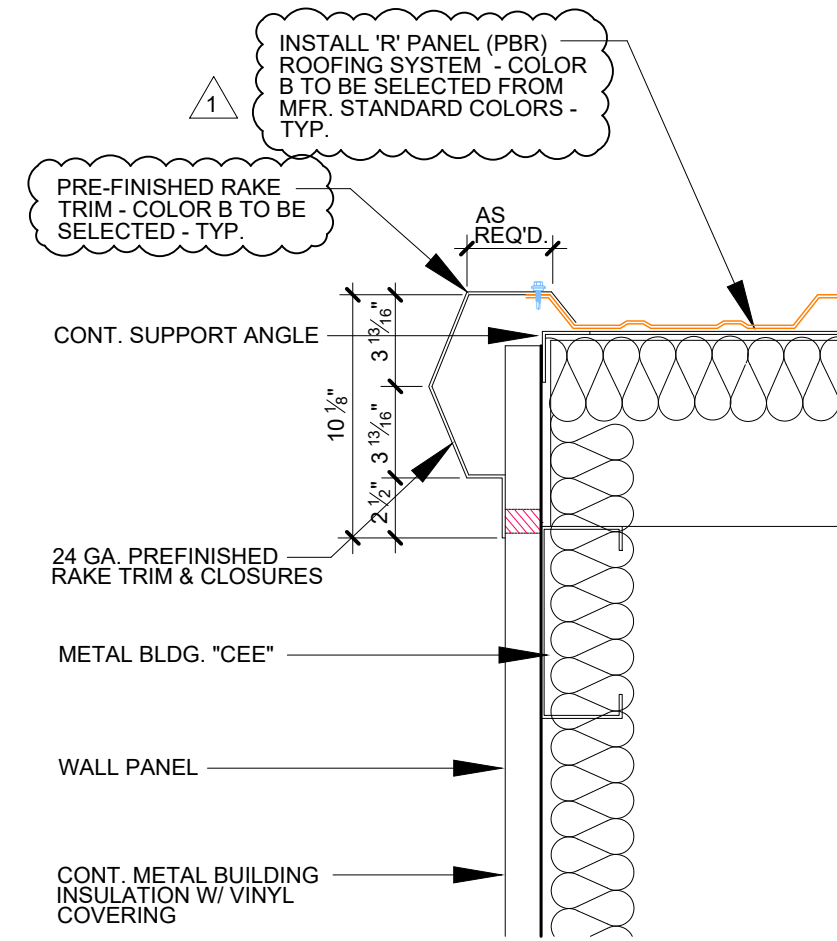


1 DEVICE PLAN
SCALE: 1/4" = 1'-0"

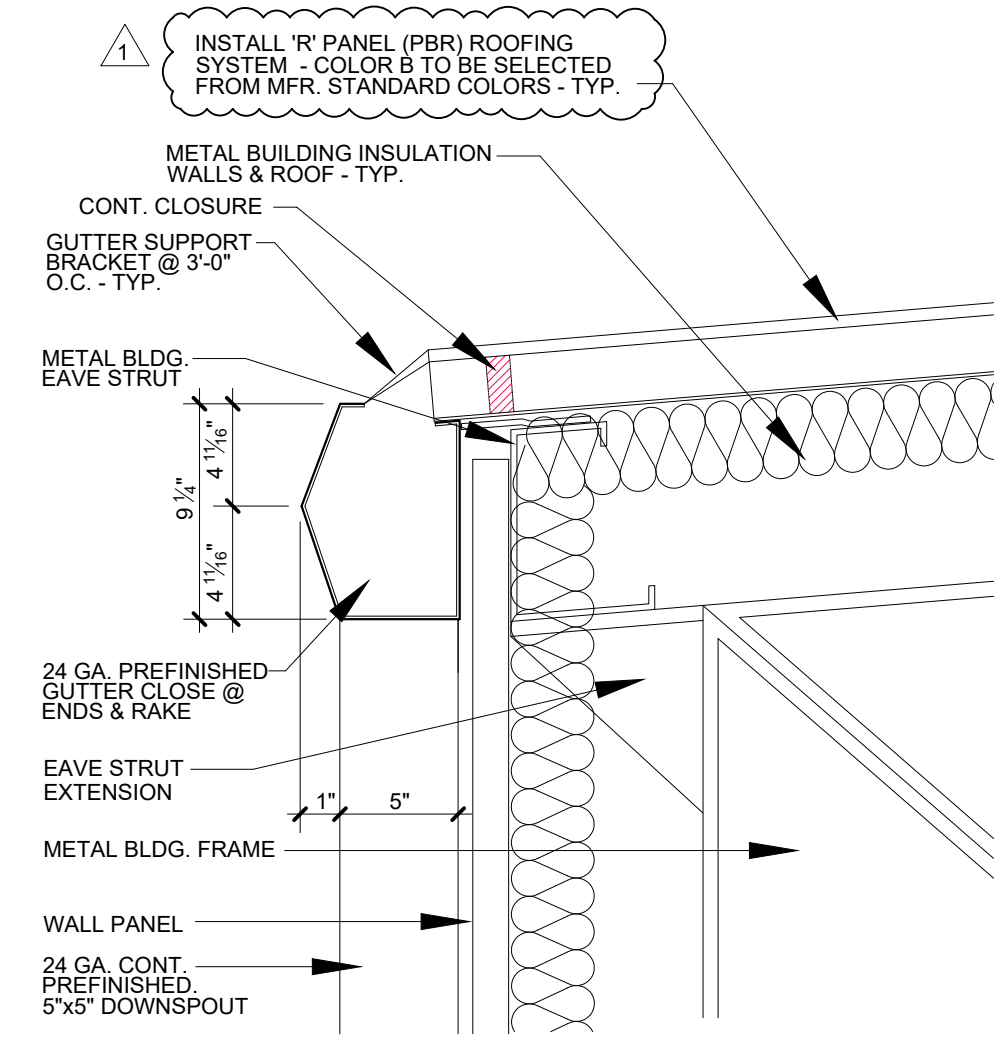
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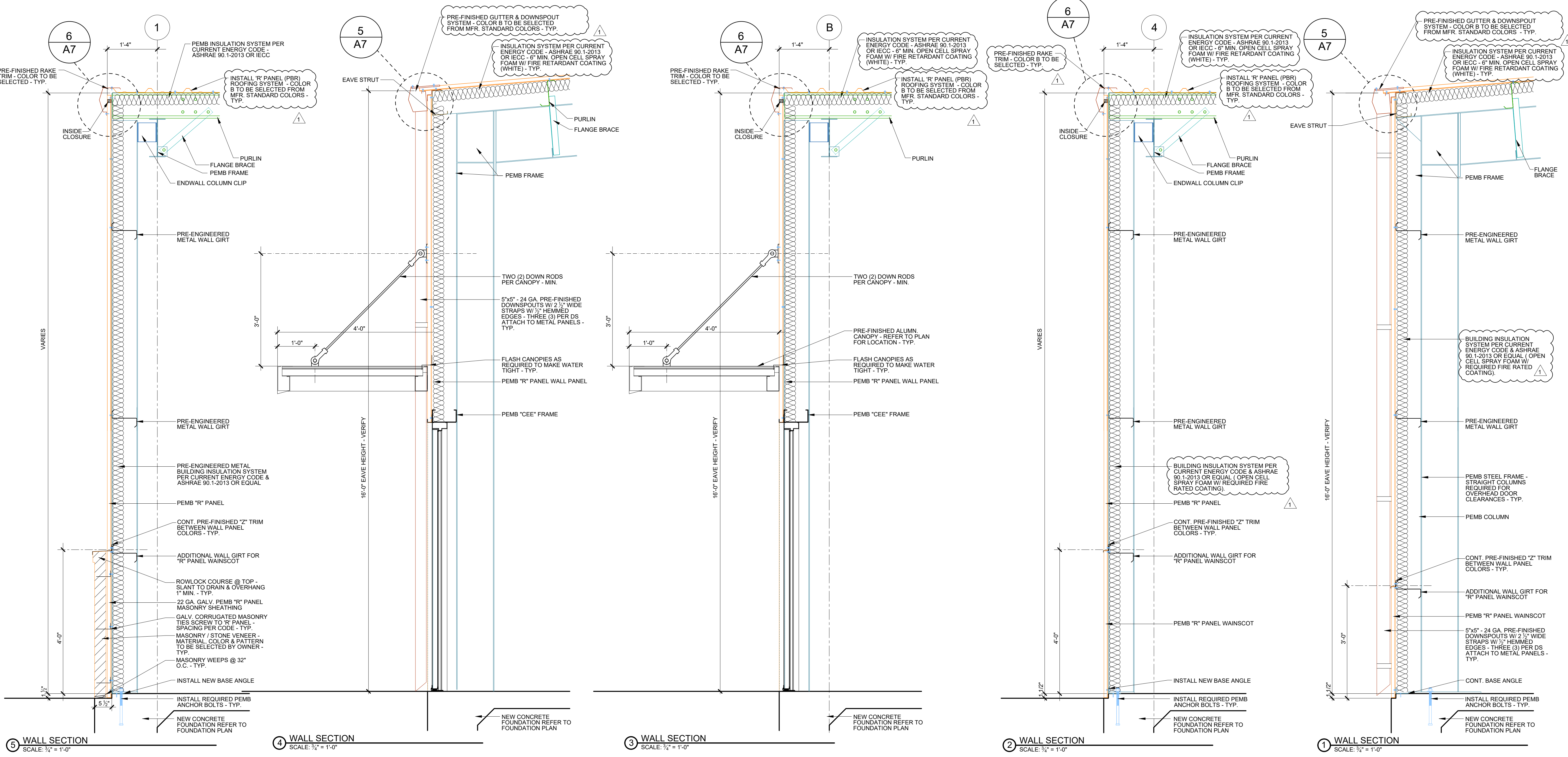
7 CANOPY SECTION
SCALE: 1" = 1'-0"



6 RAKE DETAIL
SCALE: 1 1/2" = 1'-0"



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



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

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**KERENS VOLUNTEER
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 805 Northeast 2nd Street
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<input checked="" type="checkbox"/>	PERMIT
<input checked="" type="checkbox"/>	BIDDING
<input type="checkbox"/>	CONSTRUCTION

PROJECT: NEW FIRE STATION

DRAWN BY:	KDP
JOB NO.:	2025.11
DATE:	08/01/25
REVISION:	02/22/26

SHEET: WALL SECTIONS

A8

STRUCTURAL ABBREVIATIONS	STRUCTURAL ABBREVIATIONS
ABOVE FINISH FLOOR	A.F.F.
ADDITIONAL	ADDL.
ALTERNATE	ALT.
ANCHOR ROD	A.R.
ANGLE	∠
APPROXIMATE	≈/APPROX.
ARCHITECTURAL	ARCHL.
AT	@
AIR CONDITIONER	A/C
AIR HANDLING UNIT	A/HU
BASE PLATE	BP
BEAM	BM
BEARING	BRNG.
BETWEEN	BTWN
BLOCKING	BLKG.
BOTH WAYS	B.W.
BOTTOM	BOTT.
BOTTOM CHORD EXTENSION	B.C.E.
BOTTOM OF	B.O.
BOTTOM OF DECK	B.O.D.
BOTTOM OF STEEL	B.O.S.
BRIDGING	BRDG.
BUILDING	B.LDG.
BUILDING LINE	B.L.
CEILING	CLG.
CENTER TO CENTER	C/C
CENTER LINE	CL
CENTERED	∓/CNTRD.
CHANNEL	CHNL.
CLEAR	CLR.
COLUMN	COL.
COMPRESSION	(C)
CONC.	CONC.
CONCRETE MASONRY UNIT	CMU
CONDENSING UNIT	CU
CONDN.	CONDN.
CONN.	CONN.
CONTINUOUS	CONT.
CONSTRUCTION JOINT	C.J.
COORDINATE	COORD.
DETAIL	DTL.
DEAD LOAD	DL
DIAGONAL	D.I.A.
DIAGONAL BRACE	DIAB.
DIAMETER	∅
DIMENSION	DIM.
DOUBLE	DBL.
DOWEL	DWL.
DOWN	DN.
DRAWING	DWG.
EACH	EA.
EACH FACE	E.F.
EACH WAY	E.W.
ELECTRICAL	ELECT.
ELEVATION	ELEV.
ELEVATOR	ELEV.
ENGINEER	ENGR.
EQUAL (EQUALLY)	EQ.
EXPANSION	EXP.
EXPANSION JOINT	E.J.
EXISTING	EX.
EXTERIOR	EXT.
FACE TO FACE	FF
FACE OF	F.O.
FAR SIDE	F.S.
FINISHED	FIN.
FINISHED FLOOR	FIN. FLR.
FLANGE BRACE	FB
FLOOR DRAIN	F.D.
FOOTING	F.T.G.
FOUNDATION	FDN.
GAGE OR GAUGE	GA.
GALVANIZED	GALV.
GENERAL	GEN.
GLUE-LAMINATED BEAM	G.L.B.
GRADE	GR.
GRADE BEAM	GR.BM.
GYP.SUM BOARD	GYP.BD.
HEADED STUD	H.S.
HEIGHT	HT.
HIGH POINT	H.P.
HORIZONTAL	HORIZ.
INFO.	INFO.
INSIDE DIAMETER	I.D.
INSIDE FACE	I.F.
INTERIOR	INTERM.
INTERMEDIATE	VERT.
JOINT	JT.
JOIST(S)	JST.
JOIST BEARING	JST. BRNG.
KIPS	K.
KNEE BRACE	K.B.
KIPS PER SQUARE INCH	KSI
LARGER THAN OR EQUAL TO	>=
LEAN-TO FRAME	LTF
LESS THAN OR EQUAL TO	<=
LINTEL	LNTL.
LIVE LOAD	LL
LONGITUDINAL	LONG.
LONG LEG HORIZONTAL	LLH
LONG LEG VERTICAL	LLV
LOW POINT	L.P.
MANUFACTURER	MANUF.
MASONRY JOINT	M.J.
MATERIAL	MATL.
MAXIMUM	MAX.
MECHANICAL	MECHL.
MECHANICAL, ELECTRICAL, PLUMBING	M.E.P.
METAL	MTL.
MEZZANINE	MEZZ.
MINIMUM	MIN.
MISCELLANEOUS	MISC.
MOMENT	M.
MOMENT CONNECTIONS	M.C.
NEAR SIDE	N.S.
NOT TO SCALE	NL
NUMBER	NO. OR #
ON CENTER	O.C.
OPENING(S)	OPNG.
OPPOSITE	OPP.
OPPOSITE HAND	O.H.
OUTSIDE DIAMETER	O.D.
OUTSIDE FACE	O.F.
OUT-TO-OUT	O/O
PANEL	PNL.
PERIMETER	PERIM.
PERPENDICULAR	PERP.
PLATE	PLT.
POUNDS PER LINEAR FOOT	LBS.
POUNDS PER SQUARE FOOT	PSF
POINT	PT.
POWDER ACTUATED FASTENER	P.A.F.
PRECAST CONCRETE	P/C
PRE-ENGINEERED METAL BUILDING	PEMB
PROJECTION	PROJ.
RADIUS	RAD.
REFER	REF. OR RE:
REINFORCING	REINF.
REQUIRED	REQD.
REQUIREMENTS	REQMS.
RIGID FRAME	R.F.
ROOF TOP UNIT	RTU.
ROOF DRAIN	R.D.
SAW CUT JOINT	S.C.J.
SCHEDULE	SCHED.
SECTION	SECT.
SHEAR	(V)
SHEAR CONNECTOR	S.C.
SHEET	SHT.
SIMILAR	SIM.
SPACE	SP.
SPECIFICATIONS	SPEC.
STAINLESS STEEL	SS
STANDARD	STD.
STEEL	STL.
STIFFENER	STIFF.
STRIPPERS	STR.
STRUCTURE	STRUCT.
STRUCTURAL	STRUC.TL.
SYMMETRICAL	SYM.
TEMPERATURE	TEMP.
TENSION	(T)
THICK	THK.
THROUGH	THRU.
TONGUE & GROOVE	T&G.
TOP & BOTTOM	T&B.
TOP OF	T.O.
TOP OF BEAM	T.O.B.
TOP OF FOOTING	T.O.F.
TOP OF JOIST	T.O.J.
TOP OF METAL DECK	T.O.D.
TOP OF PIER	T.O.P.
TOP OF PIER CAP	T.O.P.C.
TOP OF STEEL	T.O.S.
TOP OF STRUCTURAL STEEL	T.O.S.S.
TOP OF STRUCT. CONC.	T.O.S.C.
TOP OF WALL	T.O.W.
TOTAL LOAD	T.L.
TRANSVERSE	TRAN.
TYPICAL	TYP.
UNLESS NOTED OTHERWISE	U.N.O.
INTERM.	VERT.
VERTICAL	VERT.
WATERSTOP	W.S.
WEIGHT	WT.
WELDED WIRE MESH (FABRIC)	W.W.F.
WIND BRACE	W.B.
WIND LOAD	WL.
WITH	WT.
WOOD	WD.
WORK POINT	W.P.
X-BRACING	X.B.

GENERAL NOTES	
DESIGN CODES AND LOADS	
1.	BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE
2.	STRUCTURAL CONCRETE: BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI 318.
3.	CONCRETE MASONRY: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530, ASCE 5, TMS 402.
4.	STRUCTURAL STEEL: MANUAL OF STEEL CONSTRUCTION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
5.	WOOD: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, ALLOWABLE STRESS DESIGN.
DESIGN WIND LOAD CRITERIA:	
V-I, U-TIMATE	120 MPH
V-ASD	93 MPH
RISK CATEGORY	IV
EXPOSURE	C
INTERNAL PRESS. COEFF.	±0.18
7. DESIGN LIVE LOADS:	
ROOF	20 PSF
MECHANICAL	AS REQ'D
RETAIL	100 PSF
8. DESIGN SNOW LOAD:	
GROUND SNOW	5.0 PSF
Pf	4.2 PSF
MECHANICAL	1.0
RETAIL	1.0
9. DESIGN SEISMIC LOAD:	
RISK CATEGORY	IV
IMPORTANCE FACTOR	1.50
Ss	0.080g
S1	0.080g
SITE CLASS	D
Sds	0.080g
SD1	0.080g
SEISMIC DESIGN CATEGORY	C
SLRS	3
STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE	
Vs	0.048 W
Cs	1.2
R	3
ANALYSIS METHOD	
	EQUIVALENT LAT. FORCE

MISCELLANEOUS	
1.	NOTES INDICATED ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY DIRECT SCALING OF THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER OF RECORD.
2.	CONTRACTOR SHALL VERIFY ALL CONDITIONS AT THE JOBSITE AND REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER OF RECORD.
3.	ALL METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE AND MAINTAIN THE INTEGRITY OF THE STRUCTURE DURING ALL STAGES OF CONSTRUCTION.
4.	THE STRUCTURE HAS BEEN DESIGNED FOR THE IN-SERVICE LOADING CONDITIONS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL FORM WORK AND SHORING OPERATIONS. THE CONTRACTOR SHALL MAINTAIN STRUCTURE STABILITY AND SAFETY DURING ALL PHASES OF CONSTRUCTION, IN ACCORDANCE WITH SEIASC 37-01 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."
5.	CONSTRUCTION MATERIALS AND EQUIPMENT LOADS ON FRAME FLOORS OR ROOFS SHALL BE SPREAD OUT AND SHALL NOT EXCEED THE DESIGN LIVE LOADS PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH. CONSTRUCTION EQUIPMENT WITH WHEEL LOADS GREATER THAN 2000 POUNDS ARE NOT PERMITTED ON THE SLAB WITHOUT PRIOR WRITTEN AGREEMENT OF THE STRUCTURAL ENGINEER OF RECORD.
6.	STRUCTURAL MEMBERS HAVE BEEN LOCATED AND DESIGNED TO ACCOMMODATE THE MECHANICAL EQUIPMENT AND OPENINGS AS SPECIFIED BY THE MECHANICAL CONSULTANT. THE CONTRACTOR SHALL COORDINATE ANY SUBSTITUTIONS REQUIRING REVISIONS TO THE STRUCTURAL DRAWINGS WITH THE STRUCTURAL ENGINEER OF RECORD.
7.	ALL DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD. ANY PROPOSED ADDITIONS, SUBSTITUTIONS, OR MODIFICATIONS SHALL BE SUBMITTED IN WRITING WELL IN ADVANCE OF NEED FOR MATERIAL ON SITE. SHOP DRAWINGS DO NOT CONSTITUTE "IN-WRITING" UNLESS THE PROPOSED CHANGES ARE CLEARLY AND SPECIFICALLY IDENTIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REVISIONS TO THE STRUCTURAL FRAMING SYSTEM RESULTING FROM ACCEPTANCE OF ALTERNATES OR SUBSTITUTIONS FROM OTHER DISCIPLINES.
8.	REPRODUCTIVE USE OF THE STRUCTURAL DRAWINGS IN PART OR IN WHOLE FOR SHOP DRAWINGS, ERECTION DRAWINGS, OR ANY OTHER SUBMITTAL PURPOSES SHALL NOT BE ALLOWED.
9.	REQUESTS FOR CAD FILES SHALL BE SUBMITTED IN WRITING TO STRUCTURAL ENGINEER OF RECORD AND WILL BE CONSIDERED ON A CASE BY CASE BASIS. CAD FILES WILL NOT BE RELEASED TO CONTRACTORS OR SUBCONTRACTORS WITHOUT AN EXECUTED CAD RELEASE WAIVER AND PAYMENT OF RELATED SERVICE FEES.
10.	CONTRACTOR SHALL BE RESPONSIBLE FOR FITTING NEW WORK WITH EXISTING CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PROTECT EXISTING BUILDINGS, PAVING, AND PARKING SURFACES DURING CONSTRUCTION. WHERE ANY EXISTING CONSTRUCTION IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
11.	CONTRACTOR SHALL COORDINATE ALL MISCELLANEOUS STEEL REQUIREMENTS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
12.	ALL DETAILS NOTED OR LABELED AS TYPICAL (TYP.) APPLY IN A GENERAL SENSE TO THE DRAWINGS WHERE CONDITIONS ARE APPLICABLE OR SIMILAR.

SUBGRADE PREPARATION	
1.	ALL SUBGRADE PREPARATION, EXCAVATIONS, SITEWORK, AND SELECT FILL OPERATIONS SHALL BE IN ACCORDANCE WITH THE REFERENCED GEOTECHNICAL INVESTIGATION REPORT.
2.	CONTRACTOR SHALL PROVIDE COPIES OF ALL COMPACTION TESTS FOR EACH LIFT OF FILL PLACED TO HOLLAND ENGINEERING, LLC. NO LIABILITY, EITHER EXPRESSED OR IMPLIED, SHALL BE ASSUMED BY HOLLAND ENGINEERING, LLC FOR THE BEHAVIOR OF THE FOUNDATION SYSTEM CONSTRUCTED ON UNCONTROLLED OR UNTESTED FILL.
3.	ALL SITE PREPARATION, INCLUDING BUT NOT LIMITED TO SURFACE AND SUBSURFACE GROUNDWATER DRAINAGE, SHALL BE AS DESIGNED AND SPECIFIED BY THE GEOTECHNICAL ENGINEER AND/OR CIVIL ENGINEER.
4.	CONTRACTOR AND/OR OWNER SHALL PROVIDE FOR DRAINAGE ASSESSMENTS AND OBTAIN SITE GRADING RECOMMENDATIONS FROM A LICENSED PROFESSIONAL CIVIL ENGINEER. HOLLAND ENGINEERING, LLC SHALL NOT BE HELD LIABLE FOR THE SITE GRADING AND DRAINAGE.
5.	WATER SHALL NOT BE ALLOWED TO COLLECT IN OR NEAR FOOTING EXCAVATIONS.
6.	PROPER DRAINAGE SHALL BE COORDINATED WITH THE CIVIL AND/OR GEOTECHNICAL ENGINEER DURING SUBGRADE PREPARATION.

FOUNDATIONS AND SLABS ON GRADE	
1.	FOUNDATION DESIGN IS BASED ON A GEOTECHNICAL INVESTIGATION PERFORMED BY EYNCON ENGINEERING & SURVEYING, LLC, ENNIS, TEXAS, PROJECT NO. 10424075, DATED MAY 15, 2024, AND ALL SUPPLEMENTAL ADDENDA.
2.	FOUNDATION DESIGN IS BASED ON THE FOLLOWING ALLOWABLE BEARING CAPACITIES: TOTAL LOAD _____ 7500 PSF SWIN FRACTION _____ 500 PSF
3.	FOR DRILLED AND UNDERREAMED PIERS AT A DEPTH OF 13 FEET BELOW EXISTING GRADE. DRILLED PIERS SHALL BE EXCAVATED, CLEANED, AND REINFORCED, AND CONCRETE SHALL BE PLACED ON THE SAME DAY. IF BELLS OR UNDERREAMS CANNOT BE FORMED WITHOUT CAVING OF THE SOIL, THE STRUCTURAL AND GEOTECHNICAL ENGINEERS SHALL BE NOTIFIED BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
4.	TEMPORARY STEEL CASINGS MAY BE REQUIRED DURING THE INSTALLATION OF DRILLED PIERS (REFER TO GEOTECHNICAL REPORT). THE CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR THE USE OF STEEL CASING AS A SEPARATE ITEM IN THE CONTRACT.
5.	IF FOUNDATION CONDITIONS ARE NOTED DURING CONSTRUCTION THAT DIFFER FROM THE REFERENCED GEOTECHNICAL INVESTIGATION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, STRUCTURAL ENGINEER, AND GEOTECHNICAL ENGINEER BEFORE ANY FURTHER FOUNDATION CONSTRUCTION IS ATTEMPTED.
6.	CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER 48 HOURS PRIOR TO PLACEMENT OF CONCRETE.
7.	HOLLAND ENGINEERING, LLC, STRUCTURAL ENGINEER OF RECORD, STRONGLY RECOMMENDS CONTRACTOR ENGAGE SERVICES OF SER FOR SITE OBSERVATION OF REINFORCING STEEL FOR PIERS, FOOTINGS, GRADE BEAMS, AND SLAB PRIOR TO CONCRETE PLACEMENT.
8.	WHERE CONCRETE SLAB ON GRADE IS TO RECEIVE SENSITIVE ARCHITECTURAL FINISHES, OR TO BE EXPOSED, CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL JOINTS TO ALIGN WITH JOINTS IN THE FINISHED SURFACE. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT SURFACES THAT WILL REMAIN EXPOSED AFTER CONSTRUCTION.

CAST-IN-PLACE CONCRETE	
1.	CAST-IN-PLACE CONCRETE SHALL HAVE NORMAL WEIGHT COARSE AGGREGATES CONFORMING TO ASTM C33, NATURAL SAND FINE AGGREGATES, TYPE I PORTLAND CEMENT CONFORMING TO ASTM C150.
2.	FLY ASH MAY BE USED TO REPLACE A MAXIMUM OF 25% OF THE TOTAL CEMENTITIOUS CONTENT. FLY ASH SHALL CONFORM TO ASTM C618, CLASS C OR F.
3.	CAST-IN-PLACE CONCRETE SHALL STRICTLY ADHERE TO THE PROPORTIONS ESTABLISHED IN DESIGN MIXES CONSISTING OF THE ACTUAL MATERIALS TO BE USED DURING CONSTRUCTION. DESIGN MIXES SHALL BE PREPARED AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO USE. MIX DESIGN PROPORTIONS SHALL BE IN ACCORDANCE WITH ACI 211R/318. CONCRETE MIX DESIGNS SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

CONCRETE MIX DESIGN SCHEDULE						
TYPE OF CONSTRUCTION	CONCRETE CLASS	MIN. COMP. STRENGTH AT 28 DAYS (psi)	TOTAL AIR	MAXIMUM W/C RATIO	SLUMP (in.)	MAXIMUM AGGREGATE SIZE (in.)
GRADE BEAMS, PLINTHS, & WALLS	NVIC	3000	4.5%±1.5%	0.55	3-5	1
FOOTINGS & INTERIOR SLAB-ON-GRADE	NVIC	3000	3% MAX. (ENTRAPPED)	0.50	3-5	1
DRILLED PIERS	NVIC	4000	3% MAX. (ENTRAPPED)	0.50	4-6	1

A.	MIN. CEMENTITIOUS CONTENT = 5 SACKS PER CUBIC YARD (MAX. OF WHICH MAY BE 25% FLY ASH).
B.	USE OF CALCIUM CHLORIDE IS NOT PERMITTED.
4.	MIXING, TRANSPORTATION, AND PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301.
5.	CONCRETE SHALL NOT BE PLACED WHEN AMBIENT AIR TEMPERATURE IS 40° OR LESS AND FALLING.
6.	FRESH CONCRETE SHALL BE PROTECTED FROM FREEZING WHEN CONCRETE WILL BE EXPOSED TO AMBIENT AIR TEMPERATURES LESS THAN 32° FOR MORE THAN 8 HOURS WITHIN THE FIRST 72 HOURS OF PLACEMENT.
7.	CONTRACTOR SHALL COORDINATE THE COMPATIBILITY OF ALL CURING COMPOUNDS WITH ARCHITECTURAL FLOOR FINISHES.
8.	REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 60.
9.	WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. FABRIC SHALL BE SUPPLIED IN FLAT SHEETS AND SHALL BE LAPPED 2 MESHES AT SPLICES.
10.	DETAILING OF CONCRETE REINFORCING BARS AND ACCESSORIES SHALL CONFORM TO THE RECOMMENDATIONS OF ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND ACI SP-66 "DETAILING MANUAL."
11.	TIE OR STIRRUP SPACINGS SHALL BE AS INDICATED IN THE DRAWINGS. STARTING FROM THE FACE OF EACH SUPPORT, THE FIRST STIRRUP SHALL BE PLACED AT A SPACING OF S/2 FROM THE FACE OF EACH SUPPORT, WHERE "S" IS THE TYPICAL SPACING.
12.	PROVIDE CORNER BARS IN CONCRETE STEM WALLS OR GRADE BEAMS AS DETAILED.
13.	CONCRETE PROTECTION FOR REINFORCING BARS: GRADE BEAM TOP BARS _____ 1 1/2" GRADE BEAM SIDE BARS _____ 3" GRADE BEAM BOTTOM BARS _____ 3" WALLS _____ 1 1/2" SLABS _____ AS DETAILED FOOTING - BOTT. & SIDES _____ 3" FOOTING - TOP _____ 2" DRILLED PIERS _____ 3"
14.	REINFORCEMENT DESIGNATED AS "CONTINUOUS" IN THE DRAWINGS SHALL BE LAP-SPLICED IN ACCORDANCE WITH THE REINFORCING STEEL DEVELOPMENT SCHEDULE. SPLICE TOP BARS OF GRADE BEAMS AS REQUIRED AT MIDSPAN BETWEEN SUPPORTS. SPLICE BOTTOM BARS OF GRADE BEAMS AS REQUIRED AT CENTERLINE OF SUPPORTS. PROVIDE STANDARD ACI HOOKS AT ALL DISCONTINUOUS ENDS.
15.	HORIZONTAL JOINTS SHALL NOT BE PERMITTED UNLESS DETAILED OTHERWISE. WHERE ALLOWED, HORIZONTAL JOINTS SHALL BE ROUGHENED TO 1/4" AMPLITUDE PRIOR TO SUBSEQUENT CONCRETE PLACEMENT OPERATIONS. VERTICAL JOINTS IN CONCRETE BEAMS SHALL OCCUR AT MIDSPAN BETWEEN SUPPORTS.
16.	CONTRACTOR SHALL VERIFY THE PRESENCE, LOCATION, AND SIZES OF ALL OPENINGS, DEPRESSIONS, AND EMBEDMENTS PRIOR TO PLACING CONCRETE. NO OPENINGS SHALL BE PERMITTED THROUGH CONCRETE, UNLESS DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. CONDUIT FOR ELECTRICAL OR PLUMBING LINES SHALL BE SLEAVED THROUGH GRADE BEAMS.
17.	ALL DRILLED-PIER SET ANCHORS OR DOWELS SHALL BE AS MANUFACTURED BY H.L.T.I. (NO SUBSTITUTIONS ALLOWED W/O UT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.) REFER TO POST-INSTALLED ANCHORS NOTE.
18.	CONTRACTOR SHALL MAKE PROVISIONS FOR FINISHING EXPOSED CONCRETE. AS SOON AS FORMS ARE REMOVED, UNDESIRABLE FINIS AND PROJECTIONS SHALL BE REMOVED, OFFSETS SHALL BE LEVELLED, AND VOID OR DAMAGED PLACES SHALL BE IMMEDIATELY SATURATED WITH WATER AND FINISHED WITH CEMENTITIOUS PASTE OR MORTAR OF THE SAME COMPOSITION AS USED IN THE MIX. EXPOSED SURFACES SHALL BE RUBBED WITH CARBORUNDUM STONE TO A SMOOTH FINISH FREE FROM FORM MARKS OR HONEYCOMBS.
19.	OWNER SHALL PROVIDE FOR QUALITY CONTROL OF CAST-IN-PLACE CONCRETE BY EMPLOYING A QUALIFIED TESTING LABORATORY SERVICE TO PREPARE AND TEST CONCRETE COMPRESSION CYLINDERS, SLUMP, AIR CONTENT, TEMPERATURE, ETC., IN ACCORDANCE WITH PROJECT SPECIFICATIONS, OR AS FOLLOWS: 19.1. TESTING FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE OF (6) CYLINDERS FOR EACH DAY'S POUR FOR EVERY 50 CU. YD. OR FRACTION THEREOF. 19.2. SLUMP TEST: ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR. 19.3. AIR CONTENT: PRESSURE METHOD, ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR. 19.4. CONCRETE TEMPERATURE: ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES AND BELOW AND WHEN 80 DEGREES AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE. 19.5. COMPRESSIVE STRENGTH TESTS: TEST ONE SET OF TWO (2) CYLINDERS AT 7 DAYS AND ONE SET OF TWO (2) CYLINDERS AT 28 DAYS AND HOLD ONE (1) CYLINDER FOR TESTING WHEN REQUIRED BY ARCHITECT/ENGINEER. RESULTS SHALL INDICATE THE AVERAGE COMPRESSIVE STRENGTH FOR EACH SET OBTAINED FROM THE SAME COMPOSITE SAMPLE AND TESTING AT THE AGE INDICATED. 19.6. ALL TEST REPORTS SHALL BE SUBMITTED TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW. CONCRETE SHALL BE PLACED CONTINUOUSLY, WITHOUT INTERRUPTION, IN SUCH A MANNER AS NOT TO CAUSE SEGREGATION. EACH LIFT SHALL BE VIBRATED. (WHERE CONCRETE DROPS ARE MORE THAN 5 FEET, CONCRETE SHALL BE PLACED USING A CHUTE, TREMIE, OR PUMP HOSE.) 20. PROPER ACCESSORIES (CHAIRS, BOLSTERS, DOBIES, STANDEES OR OTHER SUPPORTS) ARE TO BE USED AND SHALL BE NOTED ON THE SHOP DRAWINGS FOR APPROVAL. DRIVING REINFORCING STEEL BARS INTO THE GROUND SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED. CLAY BRICK PRODUCTS ARE NOT ACCEPTABLE FOR CHAIRING REINFORCING. ALL REINFORCING SHALL BE SECURELY AND ACCURATELY HELD IN LOCATIONS SHOWN IN THE DRAWINGS. 21. CAST-IN-PLACE CONCRETE ON THE GROUND SHALL HAVE A THICKNESS TOLERANCE OF (+) 0" TO (+) 1". 22. REINFORCING STEEL SUBMITTALS SHALL SPECIFICALLY INCLUDE PLAN LAYOUT AND ELEVATION VIEWS OF EACH GRADE BEAM OR WALL ASSEMBLY ALONG WITH SECTION DETAILS FOR GRADE BEAMS, PLINTHS, AND FOOTINGS. 23. CONCRETE MIX DESIGN SUBMITTALS SHALL CLEARLY INDICATE THE INTENDED USE OF EACH PROPOSED MIX. 24. AGGREGATE AND MATERIAL TEST DATA SHALL BE CURRENT (WITHIN THE PAST 6 MONTHS). 25. CONCRETE MIX DESIGN AND REINFORCING STEEL SUBMITTALS FOR ITEMS DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED SEPARATE FROM ITEMS DETAILED ON ARCHL. OR CIVIL DRAWINGS.

PRE-ENGINEERED METAL BUILDING	
1.	THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAILS OF THE SUPERSTRUCTURE AND ANCHORAGE TO THE FOUNDATION. THE METAL BUILDING MANUFACTURER SHALL PROVIDE THE COMPLETE SUPERSTRUCTURE BUILDING ENVELOPE, INCLUDING BUT NOT LIMITED TO FRAMES, PURLINS, GIRTS, SHEATHING, AND OTHER MISCELLANEOUS STRUCTURAL STEEL FRAMING RELATED TO THE BUILDING SUPERSTRUCTURE. HOLLAND ENGINEERING, LLC IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE FOUNDATION ONLY.
2.	THE METAL BUILDING MANUFACTURER SHALL DESIGN THE SUPERSTRUCTURE, ASSUMING PINNED BASE CONNECTIONS TO THE FOUNDATION.
3.	THE CONTRACTOR SHALL REFER TO THE PRE-ENGINEERED METAL BUILDING DRAWINGS AND SPECIFICATIONS FOR FRAMING OF THE SUPERSTRUCTURE. THE ANCHOR RODS SHALL BE INSTALLED IN ACCORDANCE WITH THE ANCHOR BOLT SETTING PLAN DOCUMENTS PREPARED BY THE METAL BUILDING MANUFACTURER.
4.	METAL BUILDING SHALL BE DESIGNED TO CONFORM TO THE FOLLOWING LOADS, OR LATEST MBMA SPECIFICATIONS, WHICHEVER ARE MORE CRITICAL: DEAD LOAD _____ ACTUAL WEIGHT COLLATERAL LOAD _____ 5 PSF SPRINKLERS _____ AS REQ'D - COORD. W/ ARCHL. ROOF LIVE LOAD _____ 20 PSF (REDUCIBLE) WIND LOAD _____ REF. CODES & LOADS
5.	METAL BUILDING SHALL BE DESIGNED TO CONFORM TO THE FOLLOWING DRIFT AND DEFLECTION CRITERIA: BUILDING BARE FRAME DRIFT: H/180 (METAL PANEL FINISH) BUILDING BARE FRAME DRIFT: H/240 (EIFS FINISH) BUILDING BARE FRAME DRIFT: H/360 (MASONRY FINISH) ROOF PURLINS AND GIRDERS: L/240 (TOTAL) & L/360 (LIVE) WALL GIRTS: L/180 (METAL PANEL FINISH) WALL GIRTS: L/240 (EIFS FINISH) WALL GIRTS: L/360 (MASONRY FINISH) WALL PANELS: L/120 (METAL PANEL FINISH)
6.	ADDITIONAL UNIFORM AND/OR CONCENTRATED LOADS, WHERE INDICATED ON THE ARCHITECTURAL, STRUCTURAL, AND/OR MEP DRAWINGS, SHALL BE INCLUDED IN THE DESIGN.
7.	THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL ALLOW FOR THE CONNECTION OF INTERIOR AND EXTERIOR METAL STUD WALLS AND FLOOR JOISTS TO THE PRE-ENGINEERED METAL BUILDING SYSTEM AND COMPONENTS (WHERE INDICATED). SPANDREL BEAMS SHALL BE PROVIDED WHERE NECESSARY FOR SUPPORT OF WALL STUDS AND FINISH. COORDINATE ELEVATIONS OF SPANDREL BEAMS, EAVES, FRAMES, ETC. WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
8.	THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL SUBMIT COMPLETE SHOP DRAWINGS, DESIGN CALCULATIONS, DETAILS, AND SPECIFICATIONS FOR ALL METAL BUILDING ELEMENTS TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION OR ERECTION. THESE SUBMITTALS SHALL BE SEALED BY THE LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS RESPONSIBLE FOR THE SUPERSTRUCTURE DESIGN. SUBMITTAL SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: A. BUILDING ANCHOR ROD AND FRAMING LAYOUT PLANS. B. DESIGN LOADS ON THE OVERALL BUILDING AND INDIVIDUAL MEMBERS. C. DRIFT AND DEFLECTION CRITERIA USED FOR THE OVERALL BUILDING AND INDIVIDUAL MEMBERS FOR GRAVITY LOADING AND WIND LOADING. D. DIMENSIONAL, SECTION, AND MATERIAL PROPERTIES OF ALL MEMBERS. E. ALLOWABLE ACTUAL DESIGN STRESSES FOR EACH MEMBER. F. LOCATION AND TYPE OF BRACING FOR OVERALL BUILDING AND INDIVIDUAL MEMBERS (WIND BENTS, X-BRACING, SAG RODS, PURLIN FLANGE BRACING, ETC.) G. ANCHOR RODS, DIAMETER, AND PROJECTION REQUIREMENTS. H. TABULATION OF THE HORIZONTAL AND VERTICAL REACTIONS TO BE TRANSMITTED TO THE FOUNDATION. TABULATION OF REACTIONS SHALL INCLUDE: INDIVIDUAL LOAD CASES (DEAD, LIVE, WIND, ETC.), AS WELL AS MAXIMUM & MINIMUM REACTIONS BASED ON CODE-PREScribed LOAD COMBINATIONS (WITH CONTROLLING LOAD COMBINATION IDENTIFIED). I. ALL NECESSARY CONNECTION DETAILS. SUBMITTAL WILL BE REVIEWED BY HOLLAND ENGINEERING, LLC FOR GENERAL COMPLIANCE WITH THE PROJECT SPECIFICATIONS AND REQUIREMENTS. THIS REVIEW WILL NOT RELIEVE THE MANUFACTURER AND LICENSED DESIGN ENGINEER OF RESPONSIBILITY FOR PERFORMANCE OF THE SUPERSTRUCTURE.
9.	THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL SUBMIT A LETTER OF CERTIFICATION WITH THE SHOP DRAWING SUBMITTAL INDICATING THE FOLLOW

IBC SPECIAL INSPECTION REQUIREMENTS

- IN ACCORDANCE WITH SECTION 1704, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDP/RC) ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705. SPECIAL INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS IDENTIFIED IN SECTION 110.
- SPECIAL INSPECTION WORK AND THE FINAL LETTER OF COMPLIANCE HAVE NOT BEEN INCLUDED IN THE STRUCTURAL ENGINEER OF RECORD'S (SER) SCOPE OF SERVICES. PERIODIC SITE OBSERVATIONS PERFORMED BY SER ARE MADE FOR GENERAL CONFORMANCE PURPOSES AND SHALL NOT BE CONSIDERED SPECIAL INSPECTIONS.
- SPECIAL INSPECTORS AND TESTING TECHNICIANS SHALL NOT BE EMPLOYED BY THE GENERAL CONTRACTOR, SUBCONTRACTORS, OR MATERIAL SUPPLIERS. SPECIAL INSPECTOR QUALIFICATIONS SHALL BE SUBMITTED TO AND APPROVED BY THE LOCAL BUILDING OFFICIAL.
- ARRANGEMENTS FOR SPECIAL INSPECTIONS SHALL BE MADE PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING SPECIAL INSPECTOR IN A TIMELY MANNER BEFORE CONSTRUCTION ACTIVITIES CONTINUE. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING INSPECTIONS WITHOUT THE PRESENCE OF A SPECIAL INSPECTOR.
- SPECIAL INSPECTORS SHALL MAINTAIN RECORDS OF INSPECTIONS. REPORTS SHALL INDICATE WHETHER WORK WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES THAT REQUIRE CORRECTION. DISCREPANCIES NOT CORRECTED SHALL BE BROUGHT TO THE ATTENTION OF THE LOCAL BUILDING OFFICIAL AND THE RDP/RC PRIOR TO COMPLETION OF THAT PHASE OF WORK.
- ALL SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED TO THE LOCAL BUILDING OFFICIAL, RDP/RC, ARCHITECT, AND ENGINEER OF RECORD FOR EACH DISCIPLINE OF WORK INSPECTED.
- CONTINUOUS SPECIAL INSPECTION SHALL BE DEFINED AS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
- PERIODIC SPECIAL INSPECTION SHALL BE DEFINED AS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN, OR IS BEING, PERFORMED AND AT THE COMPLETION OF THE WORK.
- REFER TO IBC SECTIONS 1704 AND 1705 AND ANY LOCAL JURISDICTION AMENDMENTS FOR ALL SPECIAL INSPECTION REQUIREMENTS.

THE FOLLOWING SPECIAL INSPECTIONS IN TABLE FORM ARE REQUIRED ONLY IF MARKED WITH "X", "C", OR "P".

X - INSPECTION IS REQUIRED, ONE TIME OCCURRENCE
C - INSPECTION IS REQUIRED AND SHALL BE CONTINUOUS
P - INSPECTION IS REQUIRED AND SHALL BE PERIODIC
INSPECTION MARK FIELDS LEFT BLANK ARE NOT REQUIRED FOR THIS PROJECT.

VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION (IBC 1705.2.1)

INSPECTION MARK	INSPECTION OR TEST TYPE	COMMENTS	REFERENCE
X	REVIEW FABRICATOR'S FABRICATION AND QUALITY CONTROL PROCEDURES		IBC 1704.2.5
P	VERIFY IDENTIFICATION MARKINGS FOR HIGH-STRENGTH BOLTS, NUTS, & WASHERS CONFORM TO ASTM STANDARDS SPECIFIED ON APPROVED CONSTRUCTION DOCUMENTS		APPLICABLE ASTM STD. & AISC 360
P	REVIEW MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTS, NUTS, AND WASHERS		ASTM
P	INSPECTION OF HIGH-STRENGTH, SNUG-TIGHTENED, BEARING-TYPE BOLTED CONNECTIONS	VERIFY CONNECTED MATERIALS ARE SNUG AND DRAIN TOGETHER AND VERIFY ALL BOLTS ARE INSTALLED	AISC 360
X	VERIFY IDENTIFICATION MARKINGS FOR STRUCTURAL STEEL CONFORM TO ASTM STANDARDS SPECIFIED ON APPROVED CONSTRUCTION DOCUMENTS		APPLICABLE ASTM STD. & AISC 360
X	REVIEW STRUCTURAL STEEL MILL CERTIFICATES AND TEST REPORTS		ASTM A6
X	VERIFY IDENTIFICATION MARKINGS FOR WELD FILLER MATERIAL CONFORM TO AWS STANDARDS SPECIFIED ON APPROVED CONSTRUCTION DOCUMENTS		AWS / AISC 360
X	REVIEW MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR WELD FILLER MATERIAL		AWS / AISC 360
C	INSPECTION OF COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	NONDESTRUCTIVE TESTING	AWS D1.1/AISC 360
C	INSPECTION OF MULTIPASS FILLET WELDS	NONDESTRUCTIVE TESTING	AWS D1.1/AISC 360
C	INSPECTION OF SINGLE-PASS FILLET WELDS > 5/16"	NONDESTRUCTIVE TESTING	AWS D1.1/AISC 360
P	INSPECTION OF SINGLE-PASS FILLET WELDS < 5/16"		AWS D1.1/AISC 360
P	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: A. DETAILS SUCH AS BRACING AND STIFFENING B. MEMBER LOCATIONS C. APPLICATION OF JOINT DETAILS FOR EACH CONN.		

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

INSPECTION MARK	INSPECTION OR TEST TYPE	COMMENTS	REFERENCE
P	VERIFY IDENTIFICATION MARKINGS FOR COLD-FORMED STEEL DECKING CONFORM TO ASTM STANDARDS SPECIFIED ON APPROVED CONSTRUCTION DOCUMENTS		APPLICABLE ASTM STD. & SDI QA/QC
P	REVIEW MANUFACTURER'S CERTIFIED TEST REPORTS		
P	INSPECTION OF FLOOR AND ROOF DECK WELDS		AWS D1.3/AISC 360
P	INSPECTION OF FLOOR AND ROOF DECK MECHANICAL FASTENERS	COORDINATE W/ MANUFACTURER'S PUBLISHED LITERATURE AND ICC-ES REPORTS	ANSI/SDI QA/QC-2011
P	VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706		AWS D1.4/AISC 318

VERIFICATION AND INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC 1705.2.3)

INSPECTION MARK	INSPECTION OR TEST TYPE	COMMENTS	REFERENCE
P	VERIFY AND INSPECT END CONNECTIONS - BOLTED OR WELDED		SJI SPECS. LISTED IN SECTION 2207.1
	BRIDGING - HORIZONTAL OR DIAGONAL		
P	1. STANDARD BRIDGING		SJI SPECS. LISTED IN SECTION 2207.1
P	2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (IBC 1705.3)

INSPECTION MARK	INSPECTION OR TEST TYPE	COMMENTS	REFERENCE
P	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	ONCE BEFORE PLACEMENT OF CONCRETE FOR EACH POUR	ACI 318: Ch. 20, 25.2, 25.3, 26.5, 1-26.5.3
P	INSPECTION OF ANCHORS CAST IN CONCRETE	ONCE BEFORE PLACEMENT OF CONCRETE FOR EACH POUR	ACI 318: 17.8.2
C	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN "A" ABOVE		ACI 318: 17.8.2.4 ACI 318: 17.8.2
P	VERIFYING USE OF REQUIRED DESIGN MIX	EACH BATCH, EACH POUR	ACI 318: Ch. 19, 26.4.3, 26.4.4
C	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE		ASTM C172 & C31 ACI 318: 26.4.5, 26.1.2
C	INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES		ACI 318: 26.4.5
P	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		ACI 318: 26.4.7-26.4.9
P	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		ACI 318: 26.10.1b

VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION (IBC 1705.4)

INSPECTION MARK	INSPECTION OR TEST TYPE	COMMENTS	REFERENCE
	VERIFY SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE FOR SELF-CONSOLIDATING GROUT		ART. 1.5B 1.b.3
	VERIFY fm COMPLIANCE WITH CONSTRUCTION DOCUMENTS	TEST EACH TYPE OF MASONRY	ART. 1.4B
P	VERIFY COMPLIANCE WITH APPROVED SUBMITTALS	WEEKLY DURING MASONRY CONSTRUCTION	ART. 1.5
P	VERIFY PROPORTIONS OF SITE PREPARED MORTAR	PRIOR TO START OF EACH LIFT	ART. 2.1 & 2.6A
P	VERIFY CONSTRUCTION OF MORTAR JOINTS	PRIOR TO START OF EACH LIFT	ART. 3.3B
P	VERIFY SIZE AND LOCATION OF STRUCTURAL ELEMENTS	PRIOR TO START OF EACH LIFT	ART. 3.3F
P	VERIFY PROPER PLACEMENT, SIZE, GRADE, TYPE, AND LOCATION OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES	PRIOR TO START OF EACH LIFT	ART. 2.4, 3.2E, 3.4 & 3.6A
P	VERIFY PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	ONE EACH OCCURRENCE	ART. 1.8C & 1.8D
P	VERIFY PROPORTIONS OF SITE-PREPARED GROUT	PRIOR TO START OF EACH LIFT	ART. 2.6B & 2.4G.1.b
P	VERIFY PROPER GROUT SPACING AND CLEANLINESS OF CELL PRIOR TO GROUTING	PRIOR TO START OF EACH LIFT	ART. 3.2D & 3.2F
C	OBSERVE AND VERIFY GROUT PLACEMENT IS IN COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS		ART. 3.5 & 3.6C
P	OBSERVE PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS, OR PRISMS		ART. 1.4B 2.a.3, 1.4B 2.b.3, 1.4B 2.c.3, 1.4B.3, 1.4B.4

VERIFICATION AND INSPECTION OF SOILS (IBC 1705.6)

INSPECTION MARK	INSPECTION OR TEST TYPE	COMMENTS	REFERENCE
P	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	REFER TO PROJECT GEOTECHNICAL REPORT	
P	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	REFER TO PROJECT GEOTECHNICAL REPORT	
P	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	REFER TO PROJECT GEOTECHNICAL REPORT	
C	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF FILL	REFER TO PROJECT GEOTECHNICAL REPORT	
P	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	REFER TO PROJECT GEOTECHNICAL REPORT	



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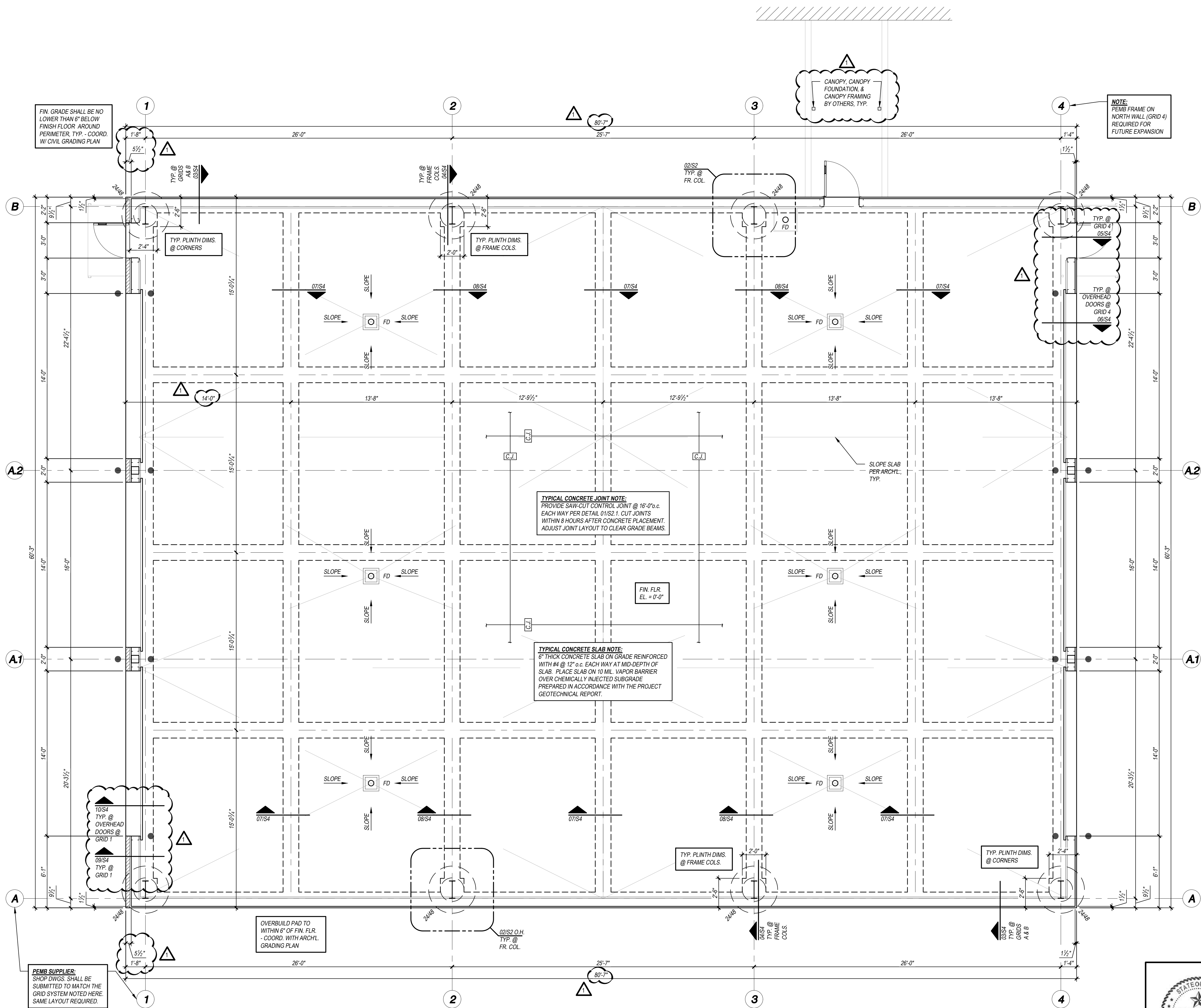
PROJECT: NEW FIRE STATION

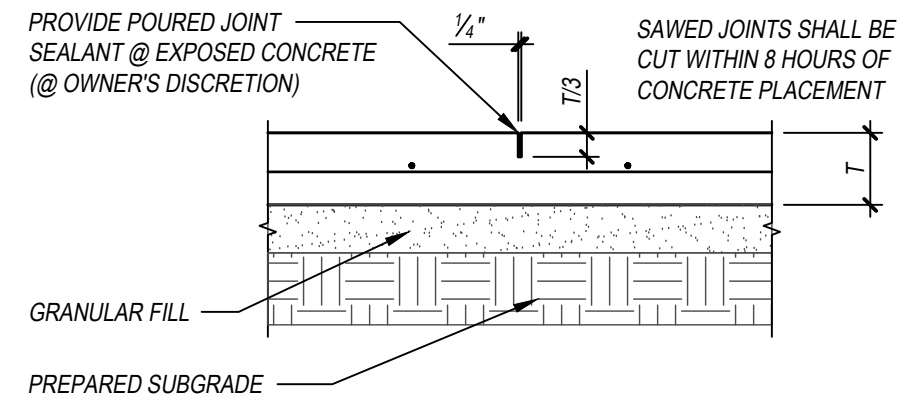
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DATE: 08/01/25
REVISION:

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S1

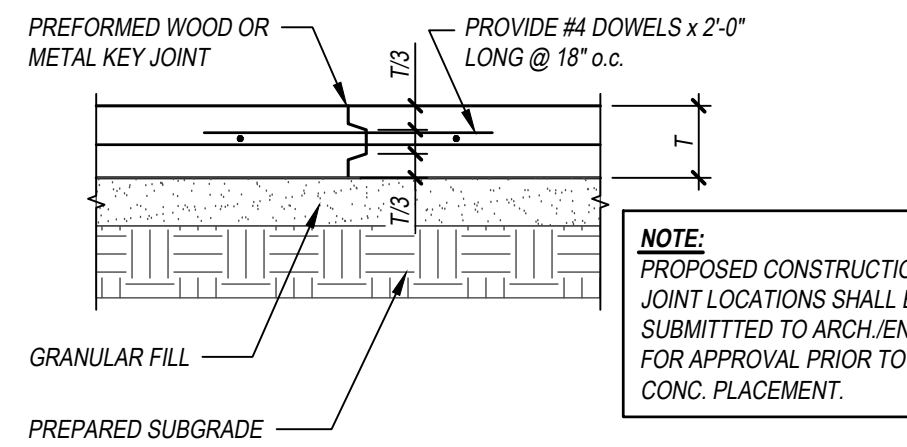
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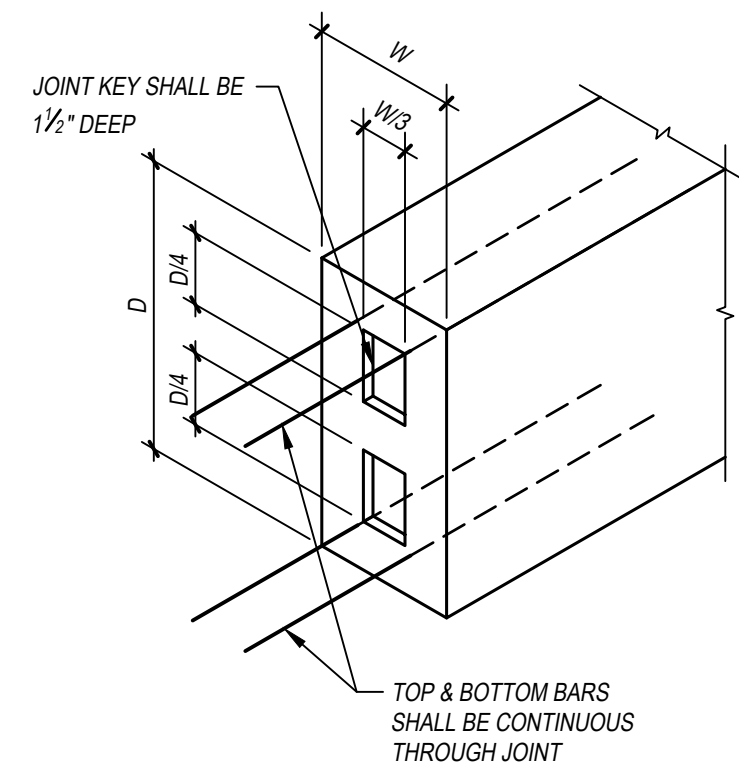
TYPICAL SLAB SAWCUT CONTROL JOINT DETAIL

01
S3 SCALE: NONE



TYPICAL SLAB KEYED CONSTRUCTION JOINT DETAIL

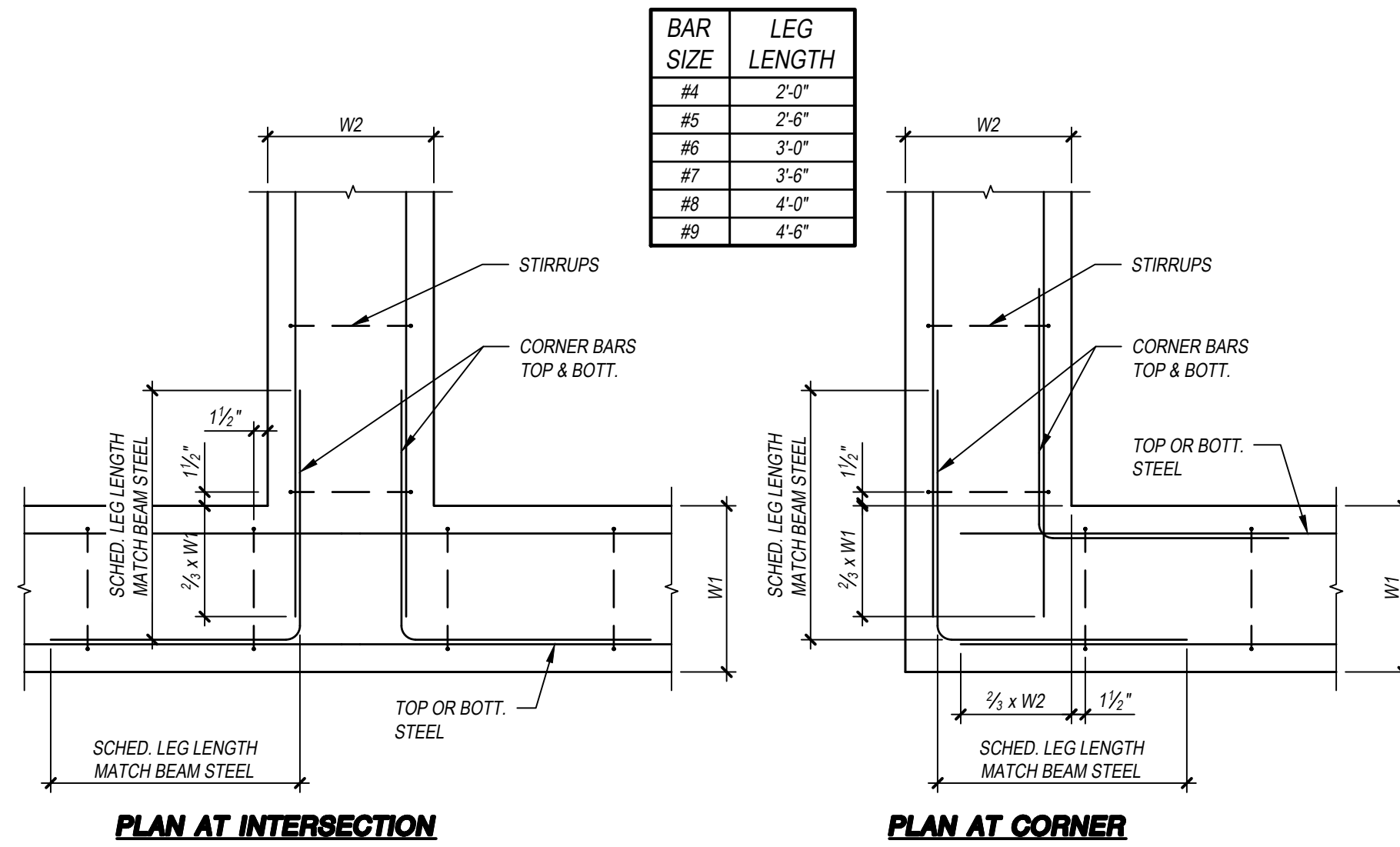
02
S3 SCALE: NONE



- NOTES:**
- CONSTRUCTION JOINTS SHALL BE LOCATED WITHIN 1'-0" OF THE MIDSPAN BETWEEN INTERIOR SUPPORTS.
 - JOINT SHALL NOT BE PLACED IN A SPAN CONTAINING A TOP BAR SPLICE.
 - JOINT SHALL NOT BE PLACED IN THE FIRST SPAN FROM A CORNER OR INTERSECTION.
 - JOINT SHALL NOT BE PLACED IN A CLEAR SPAN OF 10'-0" OR LESS.

TYPICAL GRADE BEAM KEYED CONSTRUCTION JOINT DETAIL

03
S3 SCALE: NONE

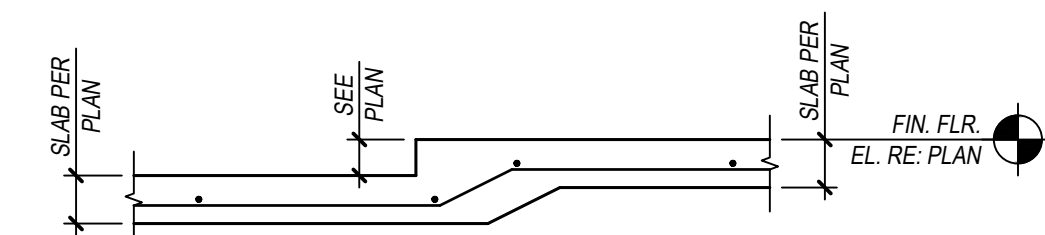


PLAN AT INTERSECTION

PLAN AT CORNER

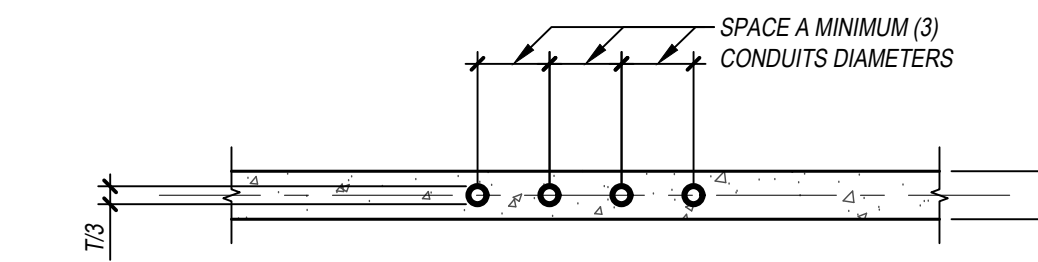
TYPICAL GRADE BEAM CORNER BAR DETAIL

04
S3 SCALE: NONE



TYPICAL SLAB DEPRESSION < 3"

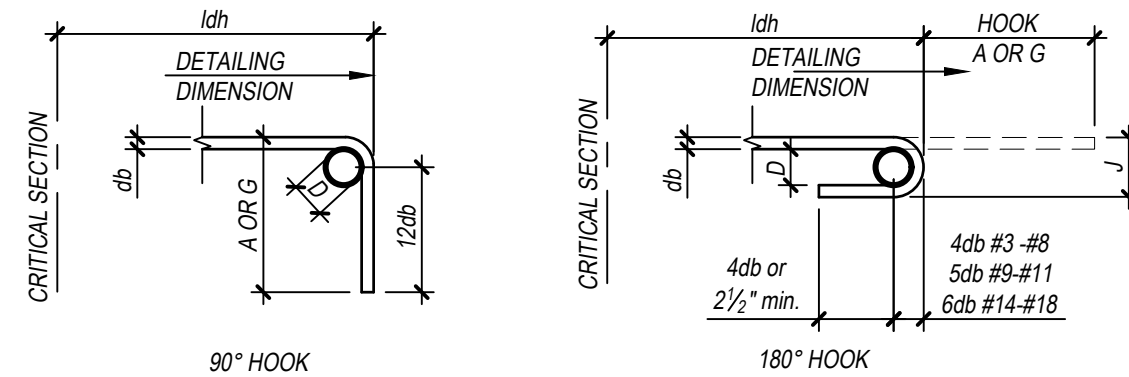
05
S3 SCALE: NONE



- NOTES:**
- CONDUITS SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/2 THE OVERALL THICKNESS OF THE SLAB IN WHICH THEY ARE EMBEDDED.
 - CONDUITS SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
 - CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
 - CONDUITS SHALL BE PLACED BETWEEN TOP AND BOTTOM REINFORCEMENT AND SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-DEPTH OF SLAB.
 - MINIMUM CONCRETE COVER FOR CONDUITS SHALL BE THE SAME AS THAT OF THE SLAB MAIN REINFORCEMENT.
 - LIMIT CONDUIT CROSSING.

TYPICAL EMBEDDED CONDUITS DETAIL

06
S3 SCALE: NONE

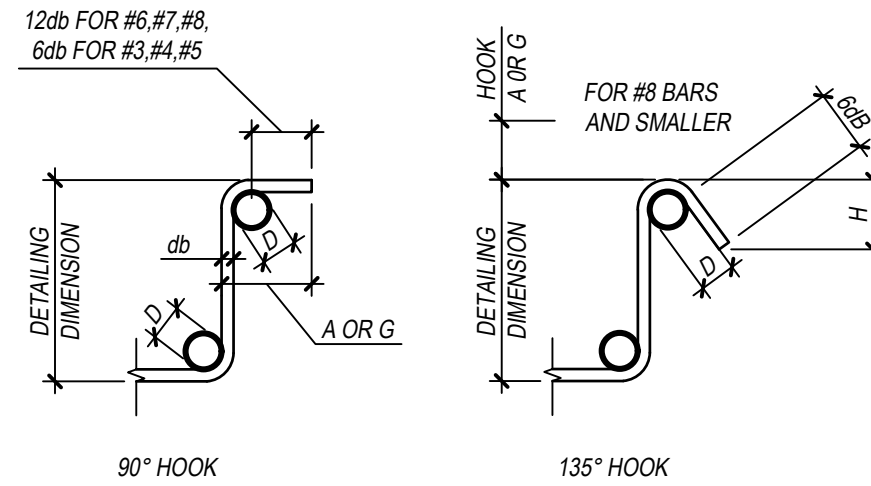


RECOMMENDED END HOOKS, ALL GRADES

BAR SIZE	FINISHED BEND DIAMETER D, (IN.)	180° HOOK		90° HOOK		HOOK DEVELOPMENT LENGTH l _{dh} (IN.)
		A OR G (IN.)	J, (IN.)	A OR G (IN.)		
#3	2 1/4	5	3	6		9
#4	3	6	4	8		11
#5	3 1/2	7	5	10		14
#6	4 1/2	8	6	12		17
#7	5 1/2	10	7	14		19
#8	6	11	8	16		22
#9	9 1/2	15	11 1/2	19		25
#10	10 1/2	17	13 1/2	22		28
#11	12	19	14 1/2	24		31
#14	18 1/2	27	21 1/2	31		37
#18	24	36	28 1/2	41		50

TYPICAL DETAIL END HOOK TYPES

07
S3 SCALE: NONE



STIRRUP AND TIE HOOKS, ALL GRADES

BAR SIZE	D (IN.)	90° HOOK A OR G (IN.)		135° HOOK A OR G (IN.)		H
#3	1 1/2	4	4	2 1/2		2 1/2
#4	2	4 1/2	4 1/2	3		3
#5	2 1/2	6	5 1/2	3 1/2		3 1/2
#6	4 1/2	12	8	4 1/2		4 1/2
#7	5 1/2	14	9	5 1/2		5 1/2
#8	6	16	10 1/2	6		6

TYPICAL DETAIL STIRRUP AND TIE HOOK TYPES

08
S3 SCALE: NONE

REINFORCEMENT DEVELOPMENT SCHEDULE

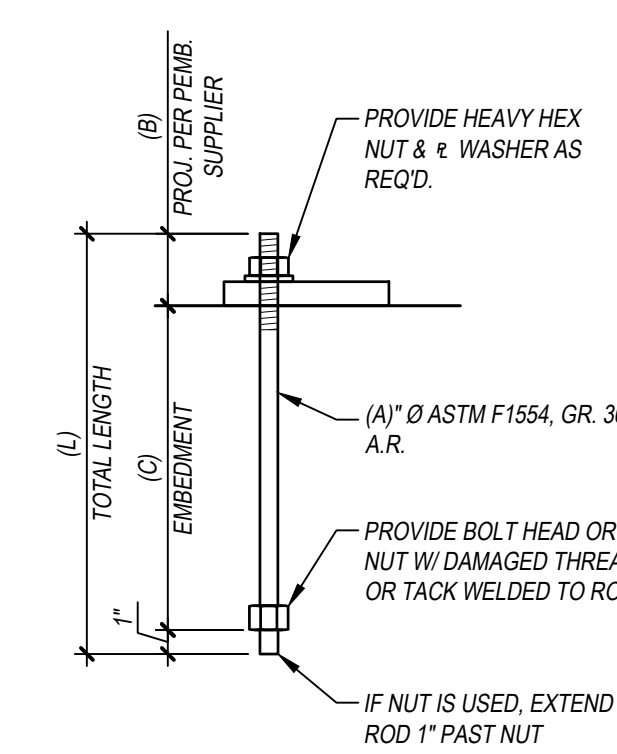
f'c = 3000 psi, LAP CLASS B

BAR SIZE	DEVELOPMENT LENGTH COMPRESSION	DEVELOPMENT LENGTH TENSION	LAP SPlice LENGTH COMPRESSION	LAP SPlice LENGTH TENSION	
				TOP BARS	OTHER BARS
#3	0'-9"	1'-5"	1'-0"	2'-4"	1'-10"
#4	0'-11"	1'-10"	1'-3"	3'-1"	2'-5"
#5	1'-2"	2'-4"	1'-7"	3'-11"	3'-0"
#6	1'-5"	2'-9"	1'-11"	4'-8"	3'-7"
#7	1'-7"	4'-0"	2'-3"	6'-9"	5'-3"
#8	1'-10"	4'-7"	2'-6"	7'-9"	6'-0"
#9	2'-1"	5'-2"	2'-10"	8'-9"	6'-9"
#10	2'-4"	5'-10"	3'-2"	11'-10"	7'-7"

REINFORCEMENT DEVELOPMENT SCHEDULE

09
S3 SCALE: NONE

NOTE: METAL BUILDING ANCHOR ROD SIZES SHOWN HERE ARE PRELIMINARY FOR BIDDING PURPOSES ONLY. ANCHOR RODS SHALL BE ADJUSTED WHEN FINAL COLUMN REACTIONS ARE MADE AVAILABLE.

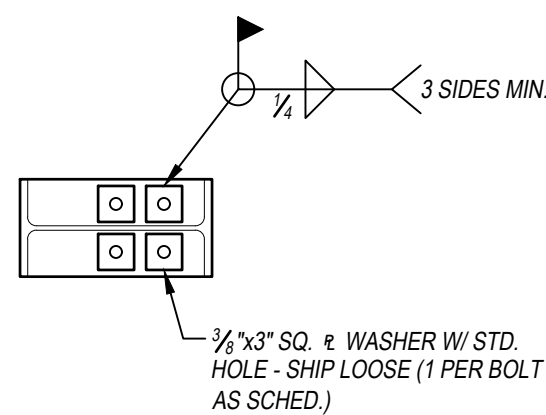


ANCHOR ROD SCHEDULE

A	B	C	L	WASHER
3/8"				
1/2"				
5/8"				
3/4"				
7/8"				
1"				

- NOTES:**
- ALL ANCHOR RODS SHALL BE ASTM F1554, GRADE 36.
 - THREAD LENGTH SHALL MATCH PROJECTION HEIGHT.
 - ALL NUTS SHALL BE HEAVY HEX.
 - COORDINATE QUANTITY AND LAYOUT W/ PEMB SUPPLIER.
 - COORDINATE PROJECTION REQUIREMENTS W/ PEMB SUPPLIER.
 - SHEAR WASHERS ARE REQUIRED WHERE LISTED BECAUSE OF PEMB THRUST REACTIONS.
 - ALL BOLTS SHALL BE TIGHTENED TO A SNUG-TIGHT CONDITION PER AISC AFTER CONC. HAS CURED 14 DAYS.

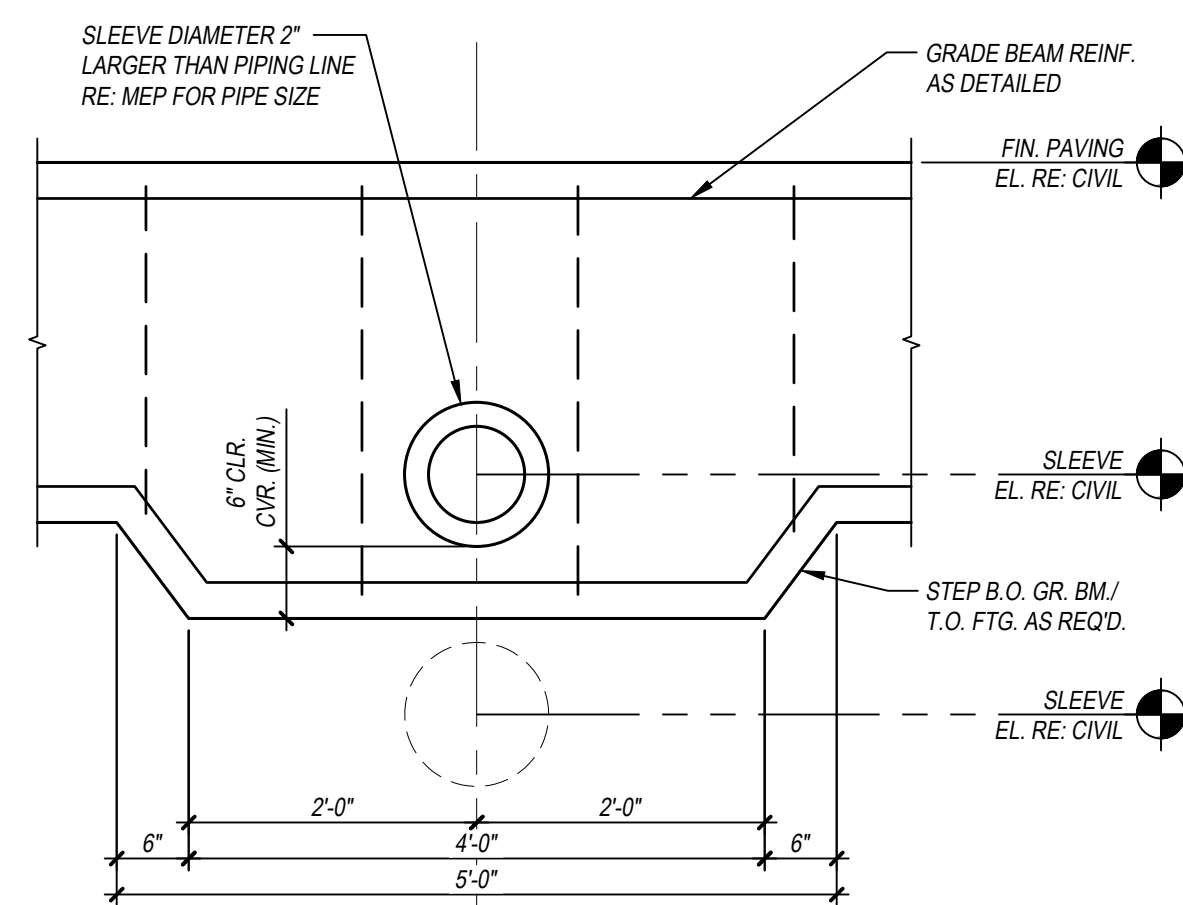
PEMB SUPPLIER NOTE: PLATE WASHERS SHALL BE INSTALLED AT EACH BASE PLATE/ANCHOR ROD WHEN OVERSIZED HOLES ARE USED.



PLAN VIEW OF SHEAR WASHERS

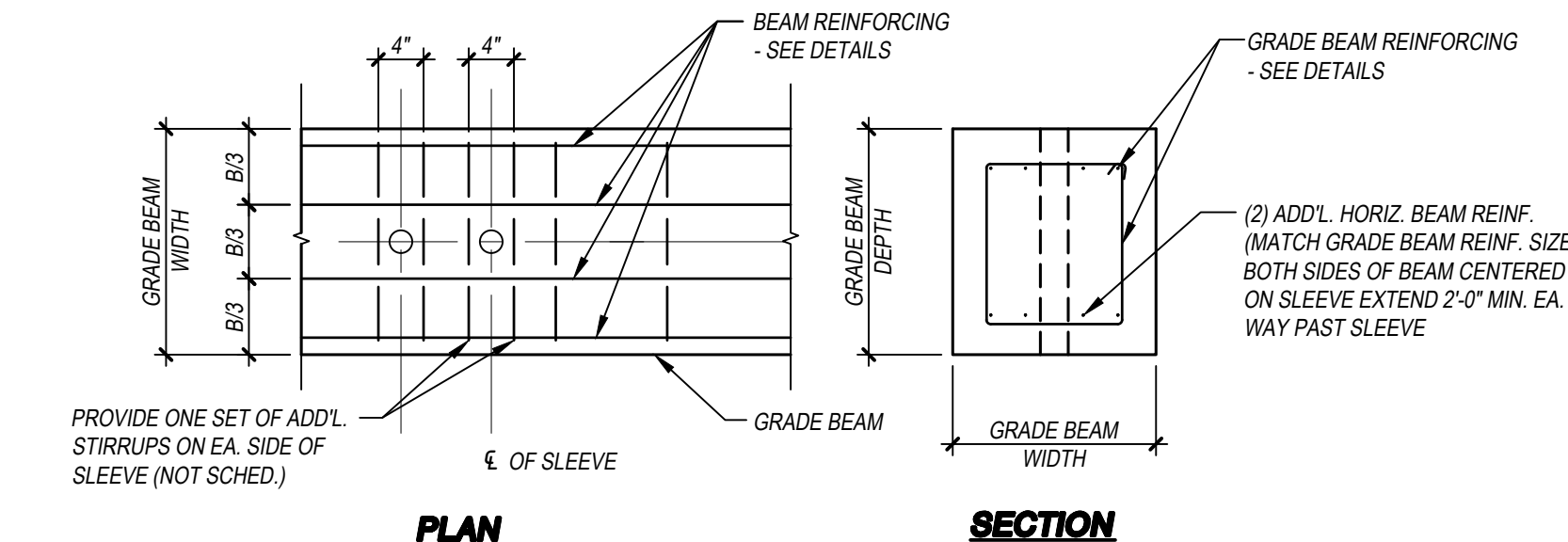
ANCHOR ROD DETAILS AND SCHEDULE FOR PEMB COLUMNS

10
S3 SCALE: NONE



TYPICAL SLEEVE THRU GRADE BEAM DETAIL

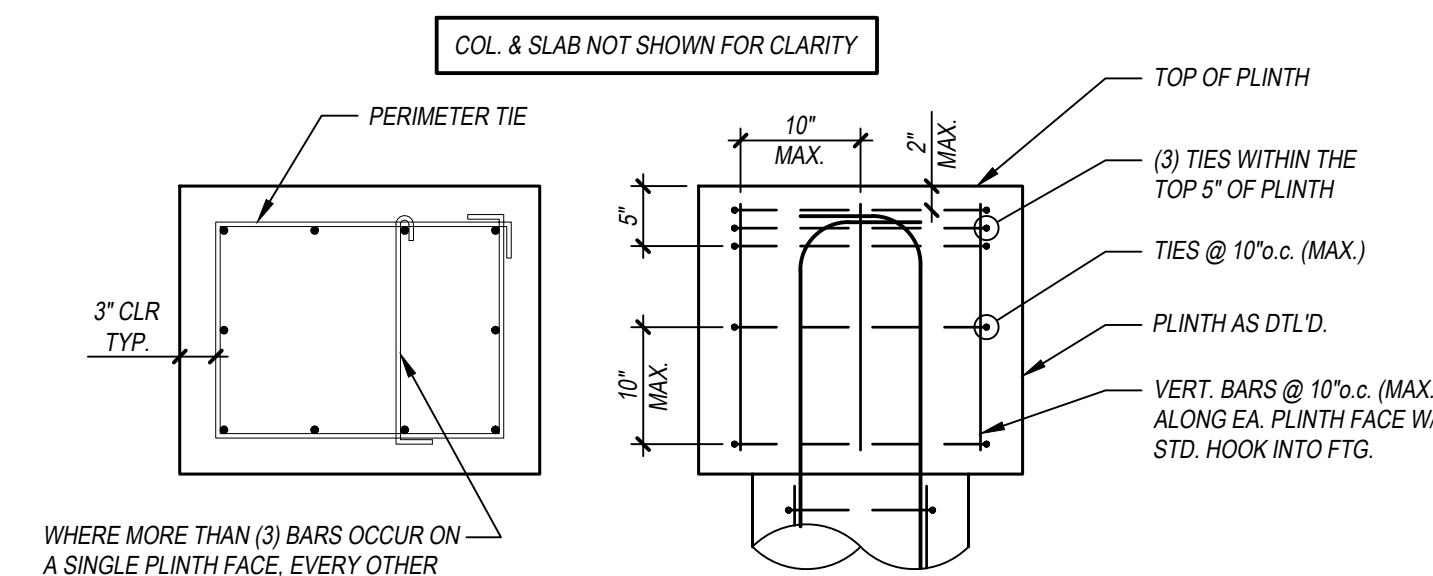
11
S3 SCALE: NONE



- NOTES:**
- REQUIRED BEAM SLEEVES ARE TO BE COORDINATED WITH MEP CONTRACTORS. REQUIRED SLEEVES MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL DWGS. GENERAL CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES.
 - SLEEVES SHALL BE LOCATED ON THE BEAM CENTERLINE, OR AT LEAST WITHIN THE MIDDLE THIRD OF THE GRADE BEAM WIDTH.
 - CONTINUOUS BEAM REINFORCEMENT MAY BE SLIGHTLY DISPLAYED (3" MAXIMUM) OR ADJACENT BARS BUNDLED (2 BAR BUNDLE MAX.) TO FACILITATE SLEEVE INSTALLATION. DO NOT CUT, OFFSET, OR BEND REINFORCEMENT.
 - SLEEVES OCCURRING ON OPPOSITE SIDES OF A PIER MUST BE IN LINE.
 - THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 15% OF THE WIDTH OF THE GRADE BEAM THROUGH WHICH IT MUST PASS. THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR DIRECTIONS WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE CONDITIONS ESTABLISHED ABOVE.

TYPICAL DETAIL VERTICAL PENETRATION, CONCRETE GRADE BEAM

12
S3 SCALE: NONE



- NOTES:**
- PLINTH TIES SHOWN HERE MUST BE INSTALLED ABOVE THE FTG.
 - PROVIDE A MINIMUM OF (4) SETS OF TIES AT ALL PLINTHS.

TYPICAL PLINTH REINF. DETAIL

13
S3 SCALE: NONE



HE #25-029 TX FIRM #F-8474 (01/31/26)

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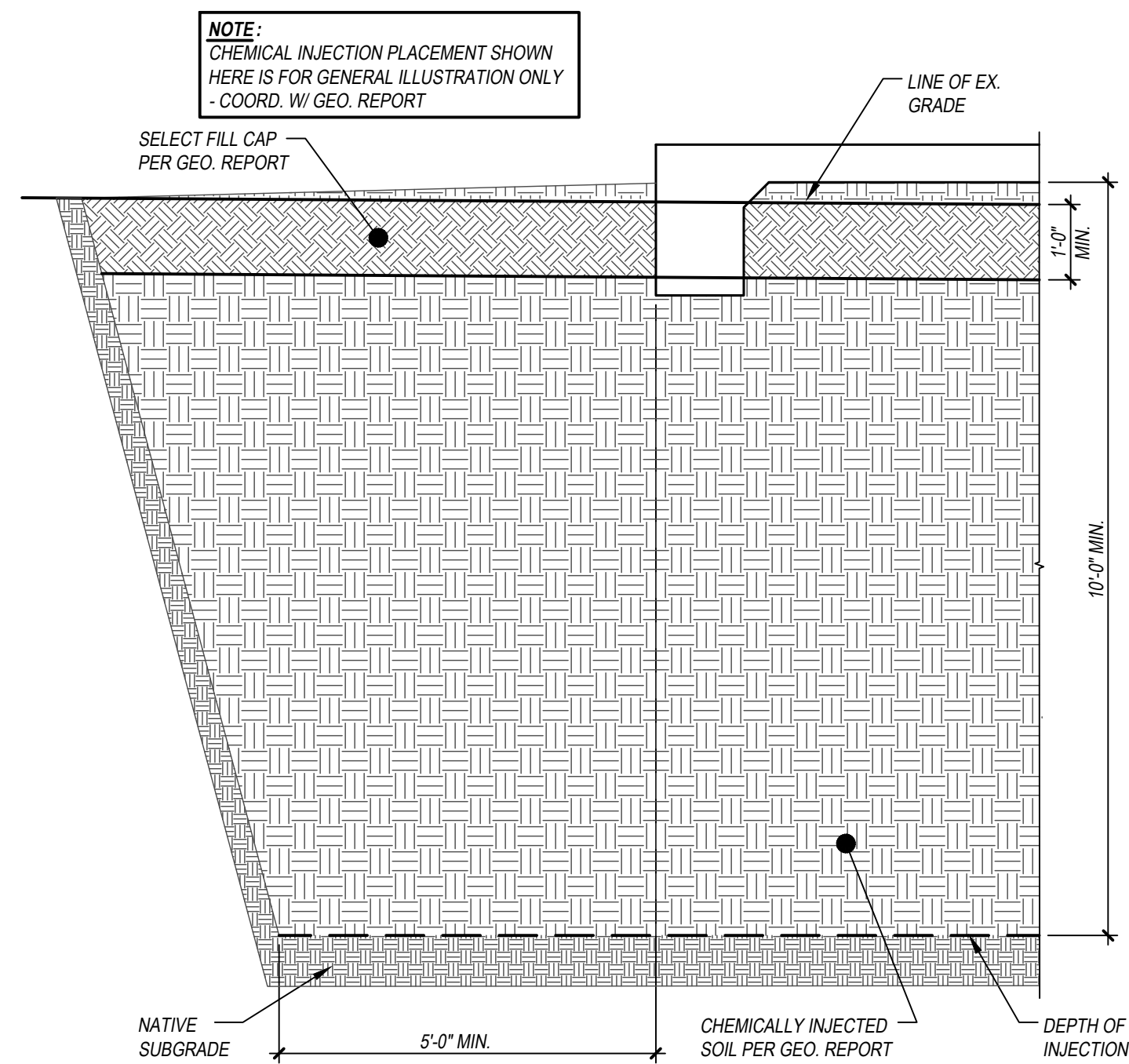
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PROJECT: NEW FIRE STATION
DRAWN BY: DES/CBE
JOB NO.: 2025.11
DATE: 08/01/25
REVISION:

SHEET: FOUNDATION DETAILS

S3

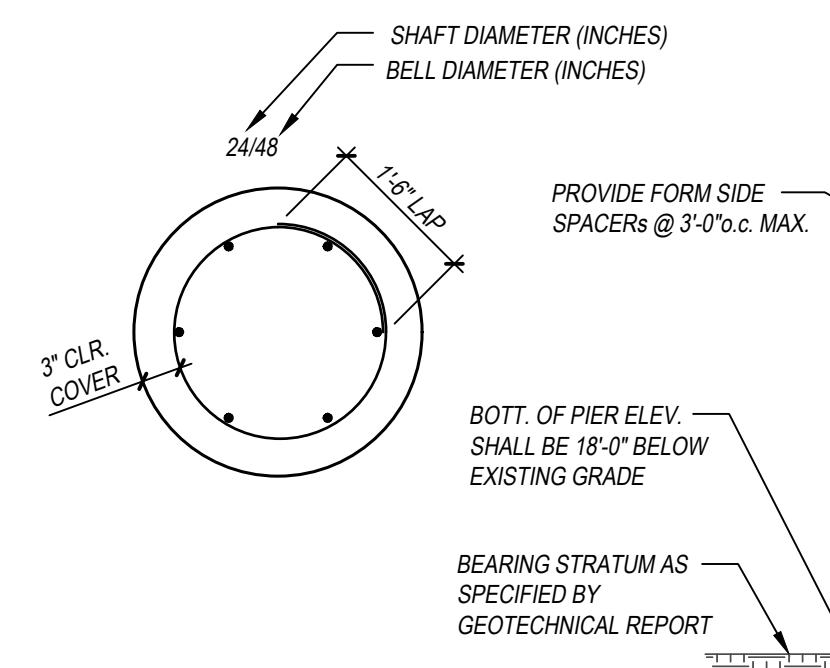


01 **84** **SUBGRADE PREPARATION DETAIL**
SCALE: NONE

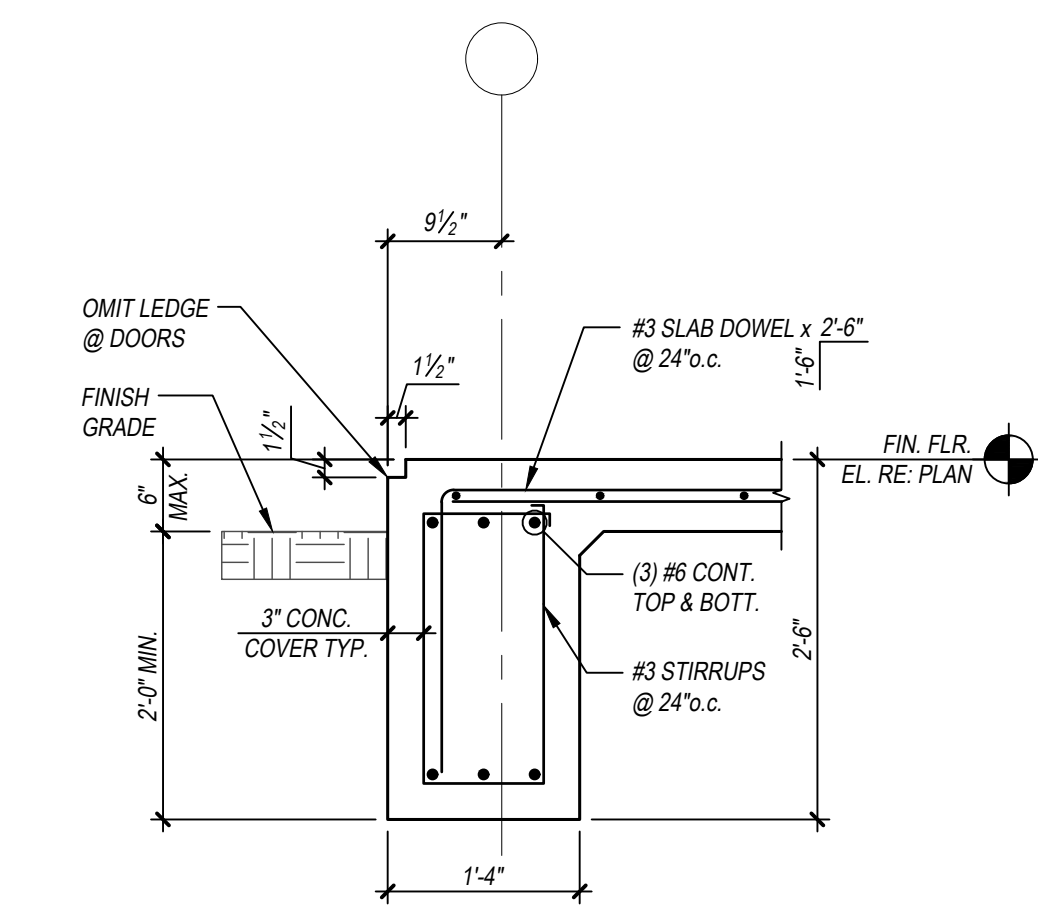
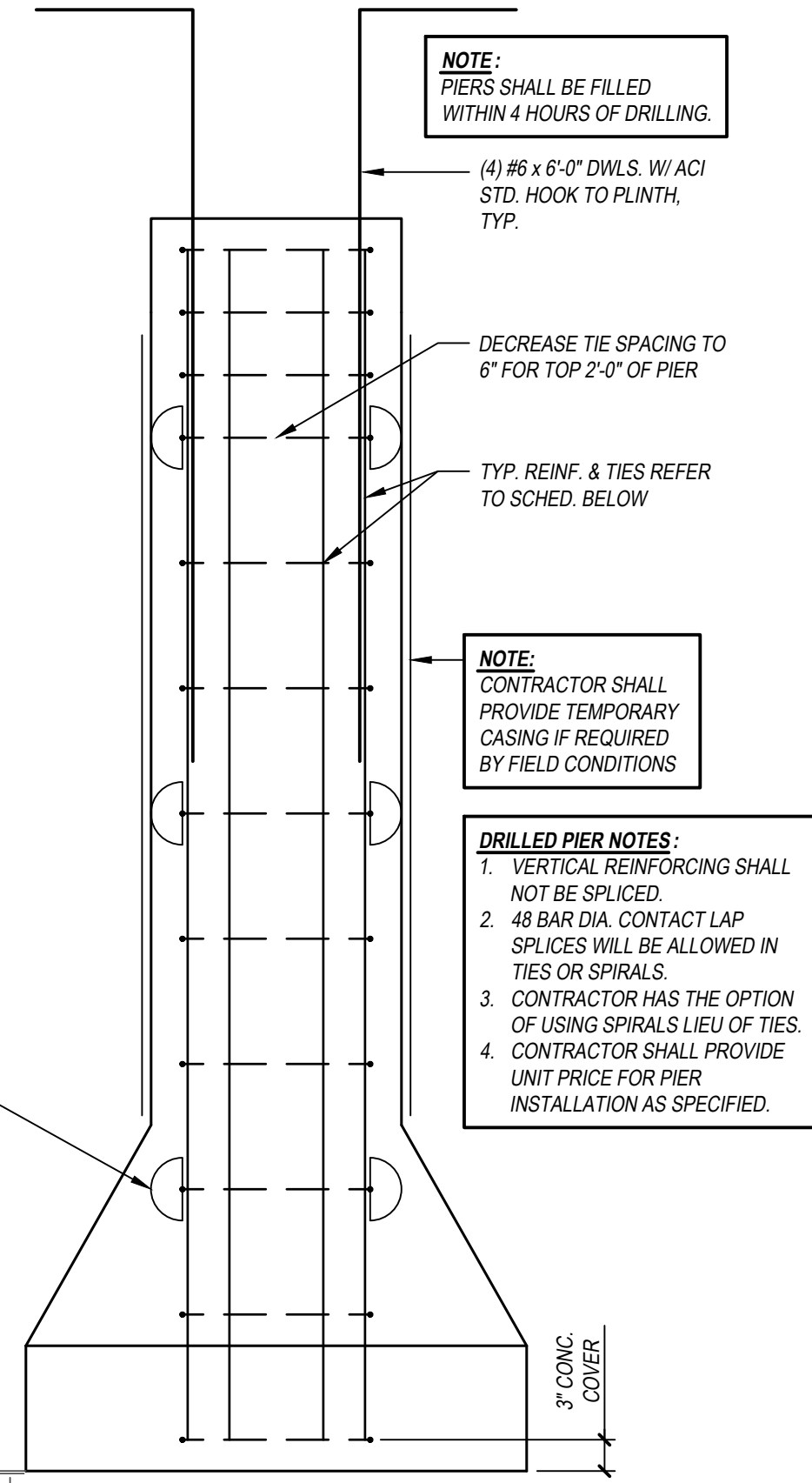
PIER REINFORCING SCHEDULE

SHAFT DIA.	VERT. REINF.	CIRCULAR TIES
24"	(8) #7	#4 @12" o.c. VERT

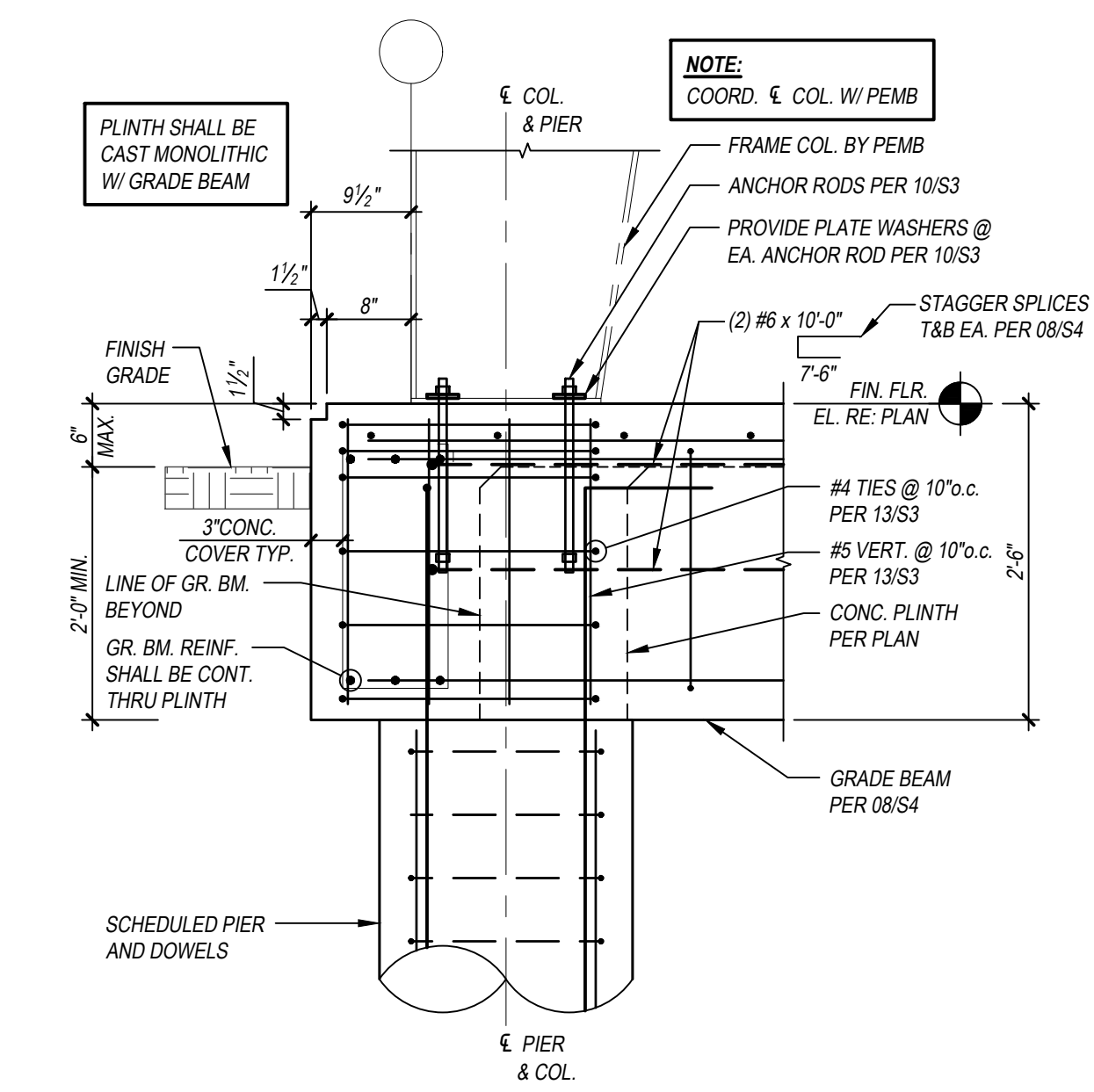
- CONTRACTOR/TESTING AGENCY NOTE:**
DRILLED PIER INSPECTION REPORTS SHALL INDICATE THE FOLLOWING ITEMS AS A MINIMUM:
- PIER GRID IDENTIFICATION
 - PIER SPECIFIED DIAMETER AND PROVIDED DIAMETER
 - DEPTH AT WHICH BEARING STRATUM IS LOCATED FOR EACH PIER HOLE DRILLED
 - DEPTH OF EMBEDMENT FOR EACH PIER
 - PIER REINFORCING



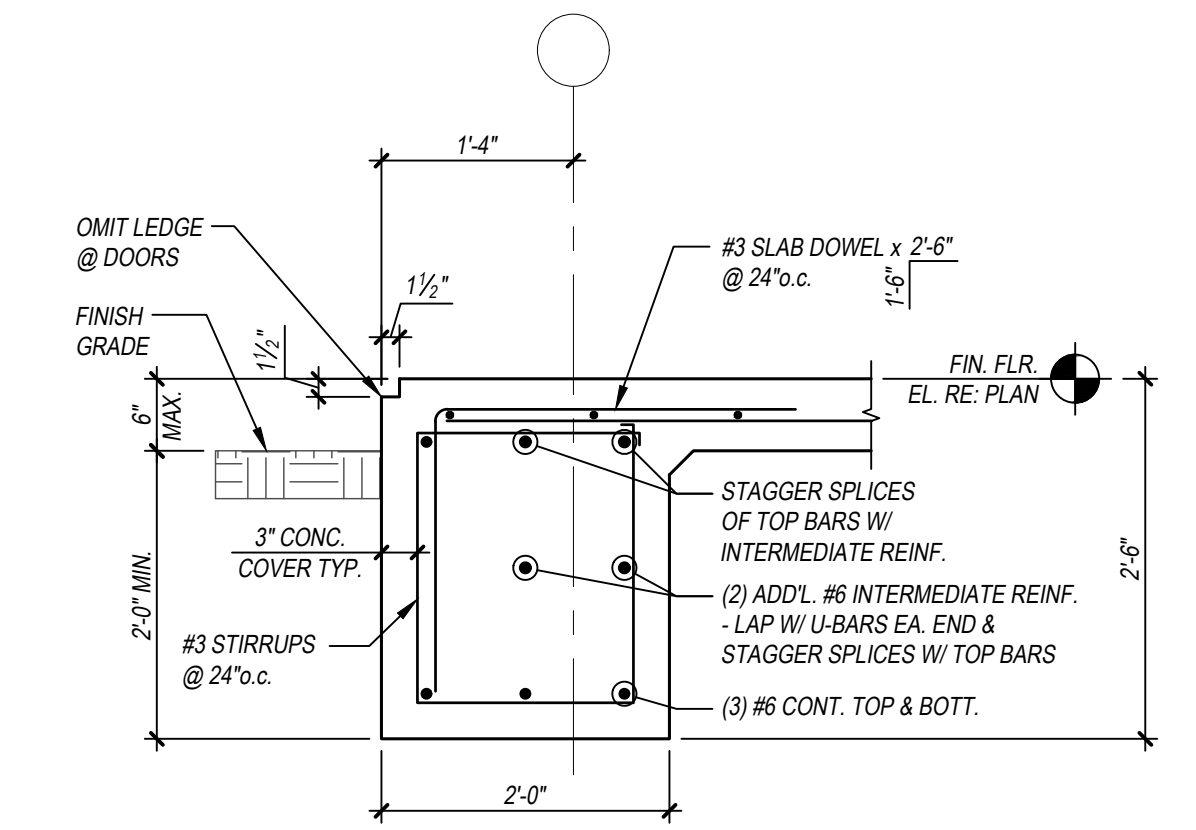
02 **84** **TYPICAL DRILLED AND UNDERREAMED PIER DETAIL**
SCALE: NONE



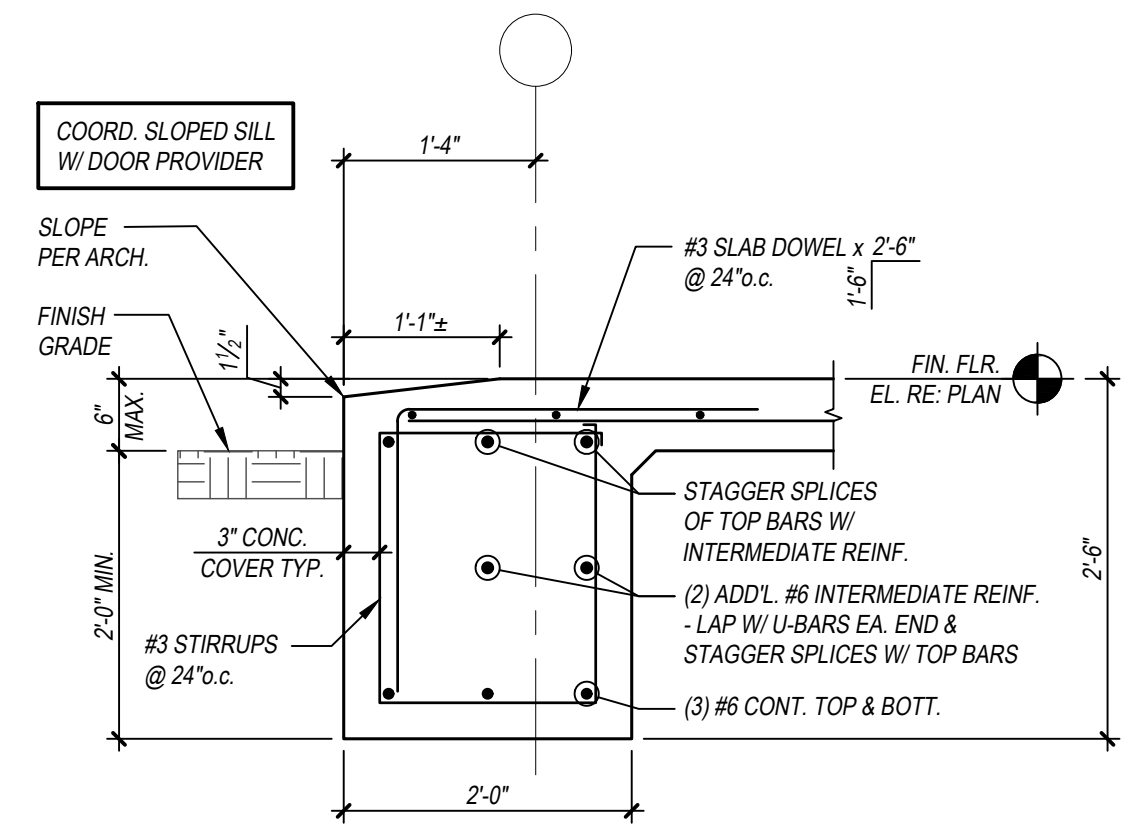
03 **84** **SECTION**
SCALE: 3/4" = 1'-0"



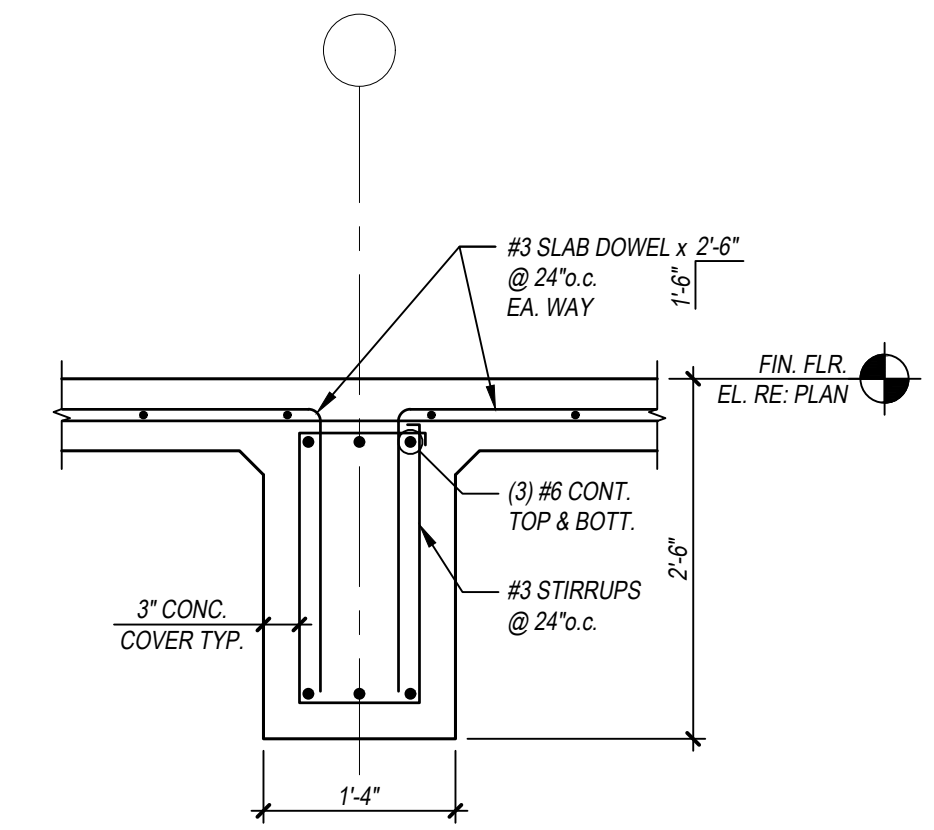
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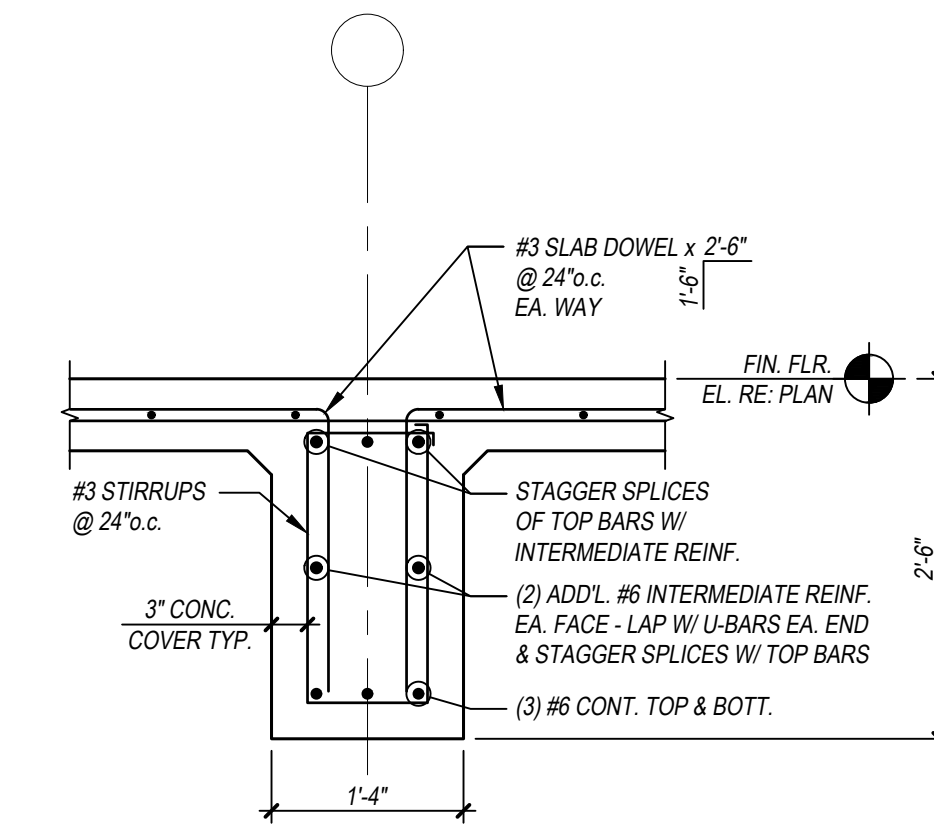
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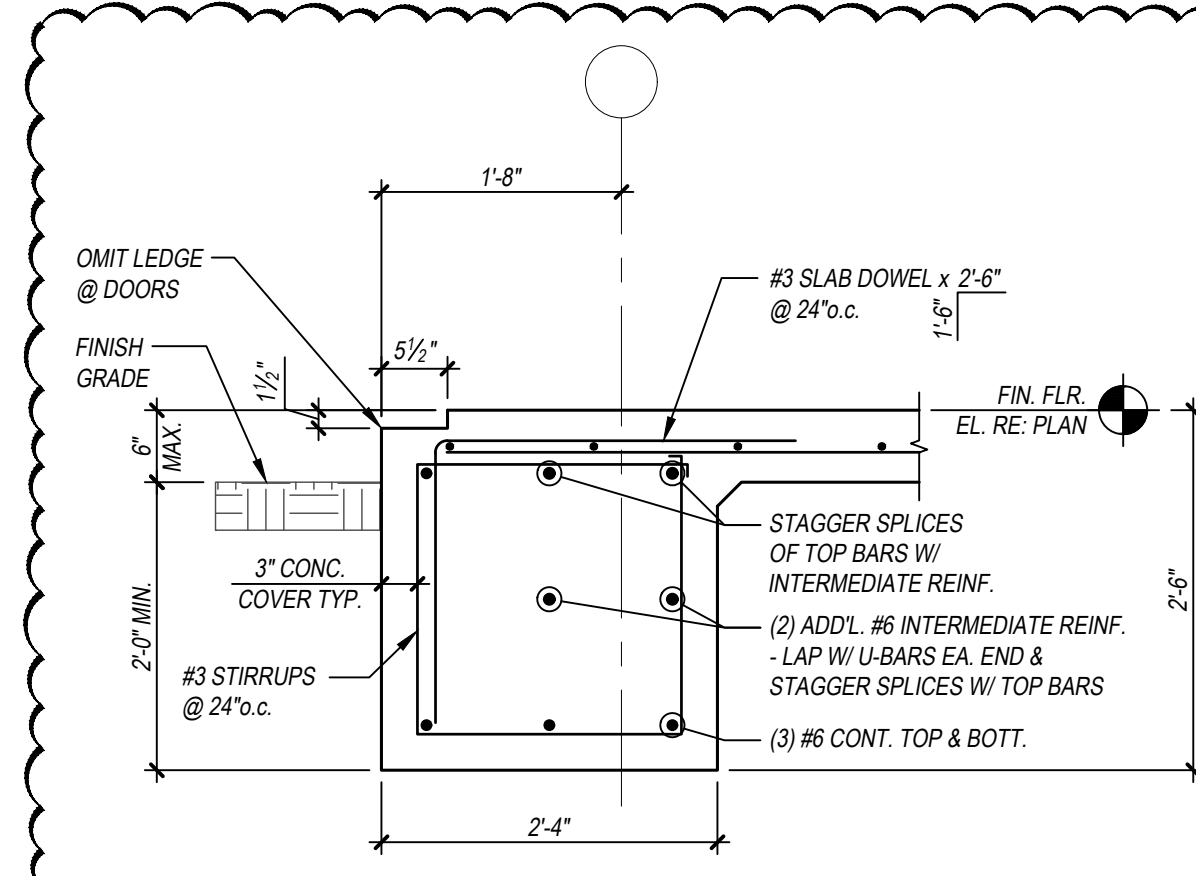
06 **84** **SECTION**
SCALE: 3/4" = 1'-0"



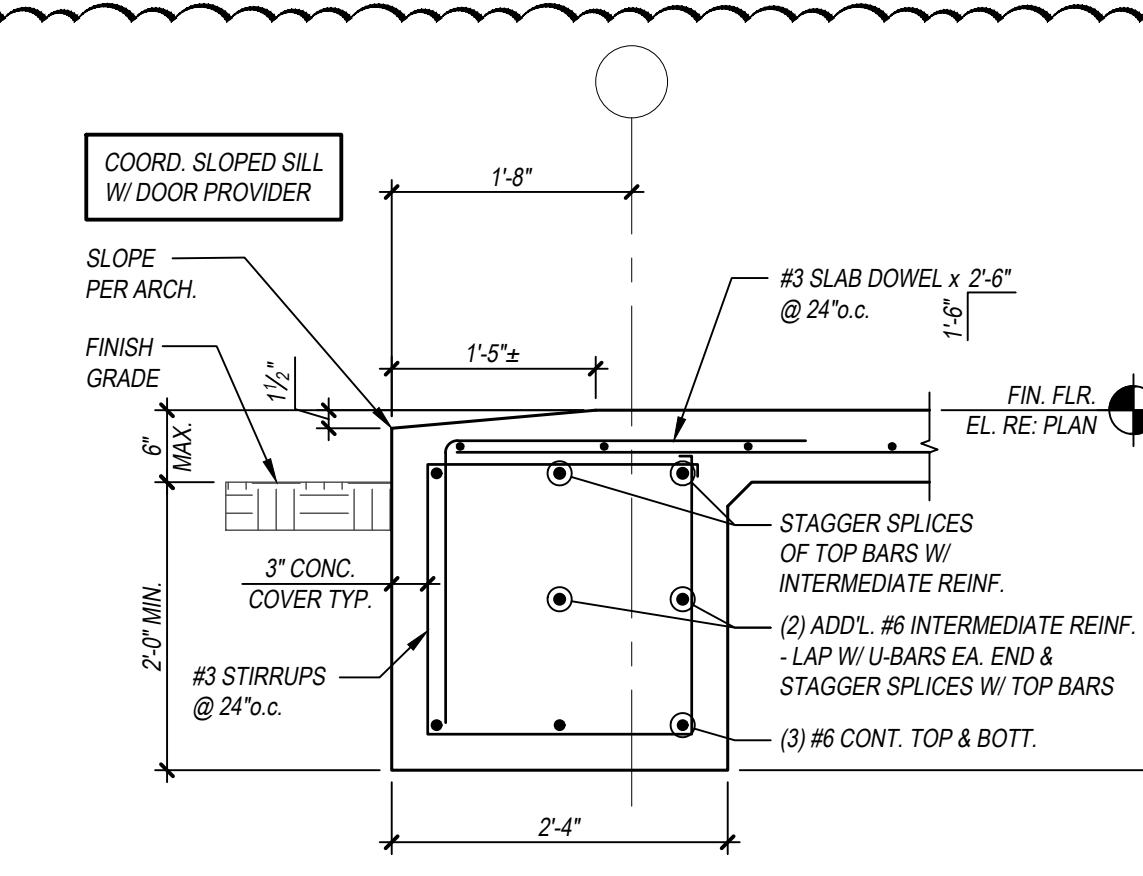
07 **84** **SECTION**
SCALE: 3/4" = 1'-0"



08 **84** **SECTION**
SCALE: 3/4" = 1'-0"



09 **84** **SECTION**
SCALE: 3/4" = 1'-0"



10 **84** **SECTION**
SCALE: 3/4" = 1'-0"

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CONSTRUCTION

PROJECT: NEW FIRE STATION

DRAWN BY: DES/CBE

JOB NO.: 2025.11

DATE: 08/01/25

REVISION: ADD. #1 08/15/25

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