





SEAL DATE: 08.01.2025  
EXPIRATION DATE: 09.15.2025

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## ANSWER

# KERENS VOLUNTEER FIRE DEPARTMENT

805 Southeast 3rd Street  
Kerens, Texas 75144

ISSUED FOR:

PRELIMINARY

REVIEW

PERMIT

BIDDING

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

## HEET: ACCESSIBILITY

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ANSWER

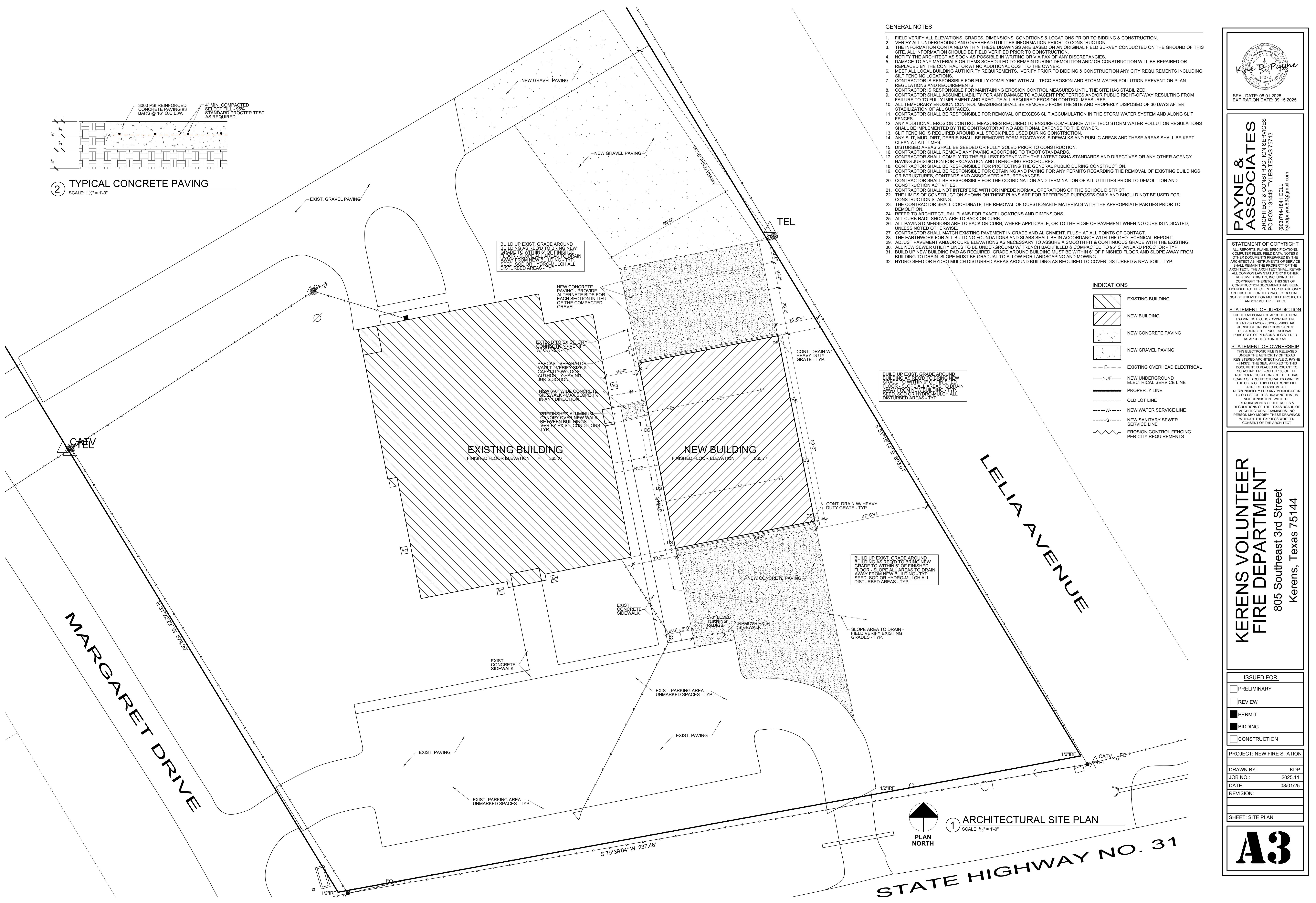
APPENDIX

10 of 10

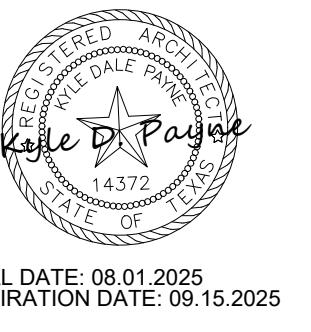
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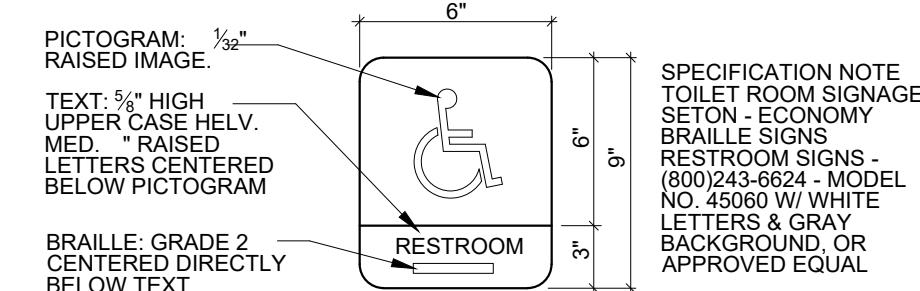
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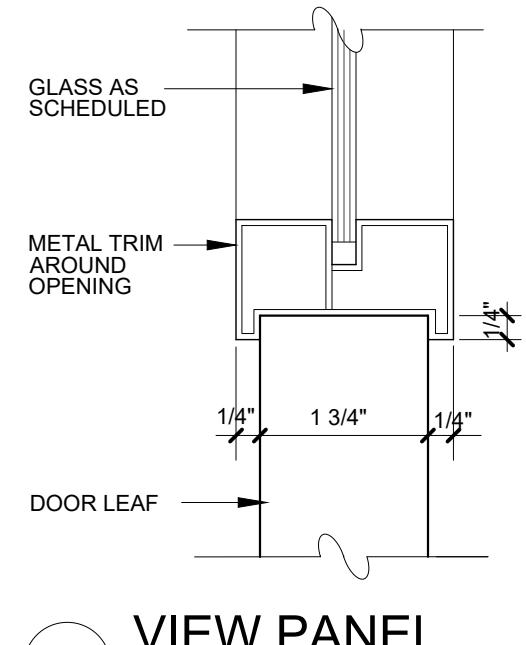
**KERENS VOLUNTEER  
FIRE DEPARTMENT**

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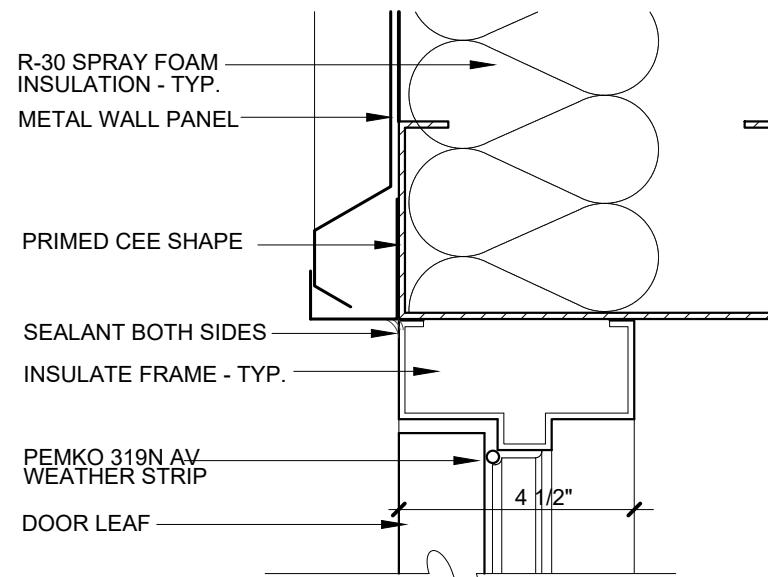
### 10 ACCESSIBLE SIGNAGE

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



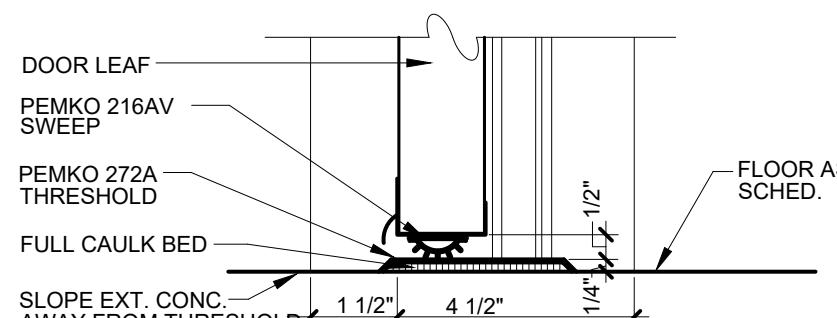
### 9 VIEW PANEL

SCALE: 3" = 1'-0"



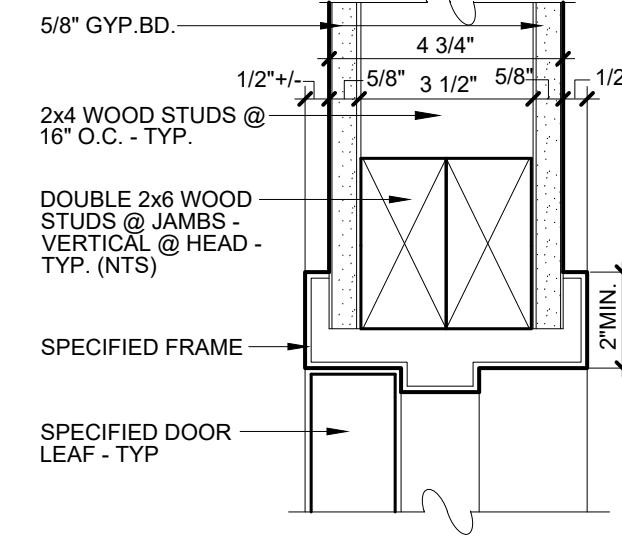
### 7 DOOR HEAD / SILL

SCALE: 3" = 1'-0"



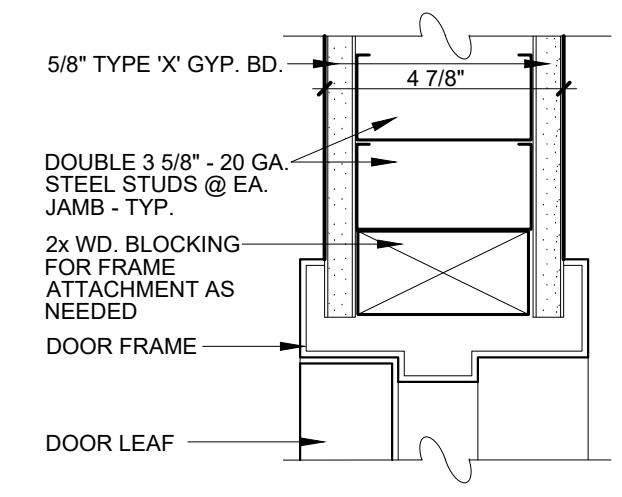
### 5 DOOR SILL

SCALE: 3" = 1'-0"



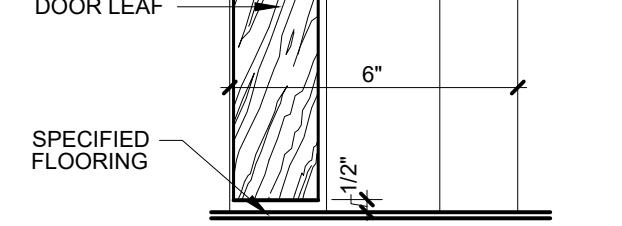
### 8 DOOR HEAD

SCALE: 3" = 1'-0"



### 6 DOOR JAMB

SCALE: 3" = 1'-0"



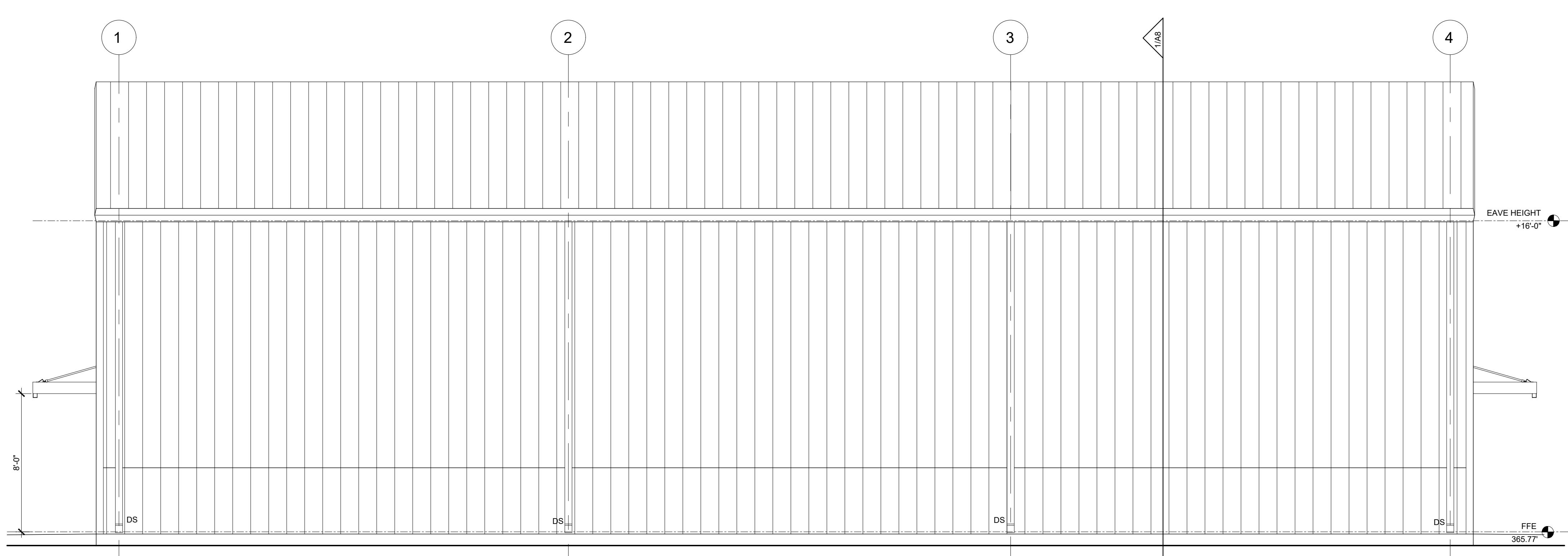
### 4 DOOR SILL

SCALE: 3" = 1'-0"

MK.	TYPE	SIZE	THK.	MATERIAL	GLAZE	FRAME	DETAILS				REMARKS
							HEAD	JAMB	SILL	LITE	
01	A	14'-0" x 14'-0"	2"	SECTIONAL OVERHEAD		METAL					4.6, 10, 11, 12
02	A	14'-0" x 14'-0"	2"	SECTIONAL OVERHEAD		METAL					4.6, 10, 11, 12
03	A	14'-0" x 14'-0"	2"	SECTIONAL OVERHEAD		METAL					4.6, 10, 11, 12
04	B	3'-0" x 7'-0"	1 1/2"	HOLLOW METAL		HOLLOW METAL	7/16	7/16	5/16	9/16	1, 2, 3, 4, 5, 6, 10, 11
05	B	3'-0" x 7'-0"	1 1/2"	HOLLOW METAL		HOLLOW METAL	7/16	7/16	5/16	9/16	1, 2, 3, 4, 5, 6, 10, 11
06	B	3'-0" x 7'-0"	1 1/2"	HOLLOW METAL		HOLLOW METAL	7/16	7/16	5/16	9/16	1, 2, 3, 4, 5, 6, 10, 11
07	A	14'-0" x 14'-0"	2"	SECTIONAL OVERHEAD		METAL					4.6, 10, 11, 12
08	A	14'-0" x 14'-0"	2"	SECTIONAL OVERHEAD		METAL					4.6, 10, 11, 12
09	A	14'-0" x 14'-0"	2"	SECTIONAL OVERHEAD		METAL					4.6, 10, 11, 12
10	C	3'-0" x 7'-0"	1 1/2"	S.C. WOOD		HOLLOW METAL	8/16	6/16	4/16		1, 8, 9
11	C	3'-0" x 7'-0"	1 1/2"	S.C. WOOD		HOLLOW METAL	8/16	6/16	4/16		1, 8, 9
12	C	3'-0" x 7'-0"	1 1/2"	S.C. WOOD		HOLLOW METAL	8/16	6/16	4/16		1, 8, 9

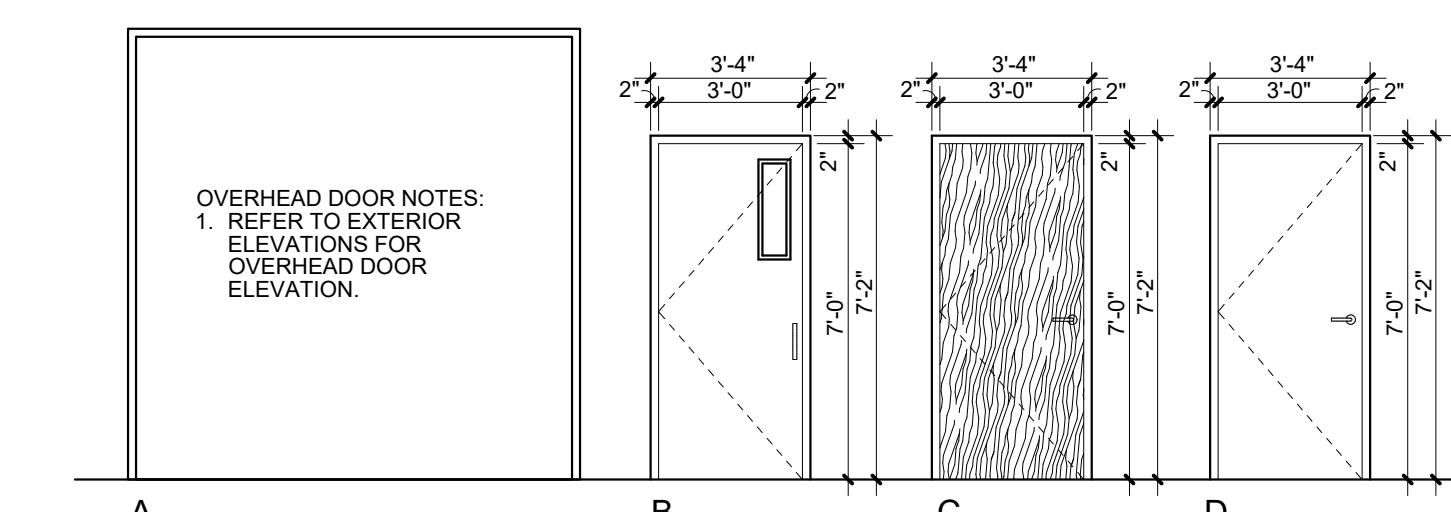
#### DOOR SCHEDULE NOTES:

1. PROVIDE & INSTALL DOOR CLOSER.
2. PROVIDE & INSTALL PANIC DEVICE.
3. PROVIDE & INSTALL ACCESSIBLE THRESHOLD.
4. PROVIDE & INSTALL WEATHERSTRIPPING.
5. PROVIDE & INSTALL LEVER HANDLE PRIVACY LOCKSET.
6. PROVIDE & INSTALL GLASS VIEW PANEL.
7. PROVIDE & INSTALL PUSH / FULL HANDLES.
8. PROVIDE & INSTALL LEVER HANDLE PRIVACY LOCKSET.
9. PROVIDE & INSTALL OVERHEAD DOORS - VERIFY OWNER'S HARDWARE MANUFACTURER PREFERENCE & PROVIDE / INSTALL SAME.
10. KEY ALL DOORS W/ LOCKS TO OWNERS MASTER KEYING SYSTEM - VERIFY.
11. SECTIONAL OVERHEAD DOORS TO HAVE ELECTRIC OPERATOR W/ PUSH BUTTON CONTROLS - VERIFY W/ OWNER.



### 1 EAST ELEVATION

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

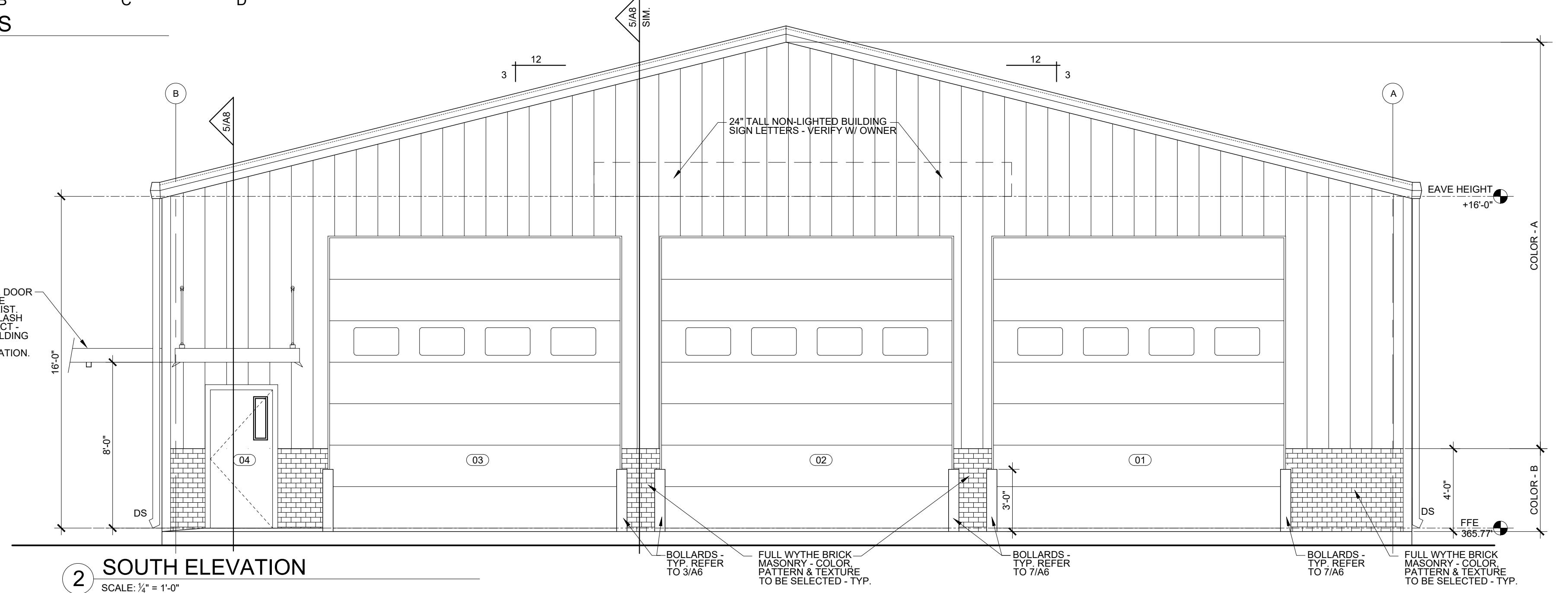


### 3 DOOR ELEVATIONS

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

PEMB COLOR NOTES:  
1. COLOR A = MAIN BUILDING WALL COLOR FOR ALL SIDES.  
2. COLOR B = OVERHEAD DOOR COLOR FOR ALL DOORS, PERSONNEL DOORS & FRAMES & SECTIONAL OVERHEAD DOORS & FRAMES.  
3. COLOR C = COLOR FOR DOOR FRAMES ON ALL SIDES.  
4. VERIFY COLOR SELECTIONS W/ OWNER.

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



### 2 SOUTH ELEVATION

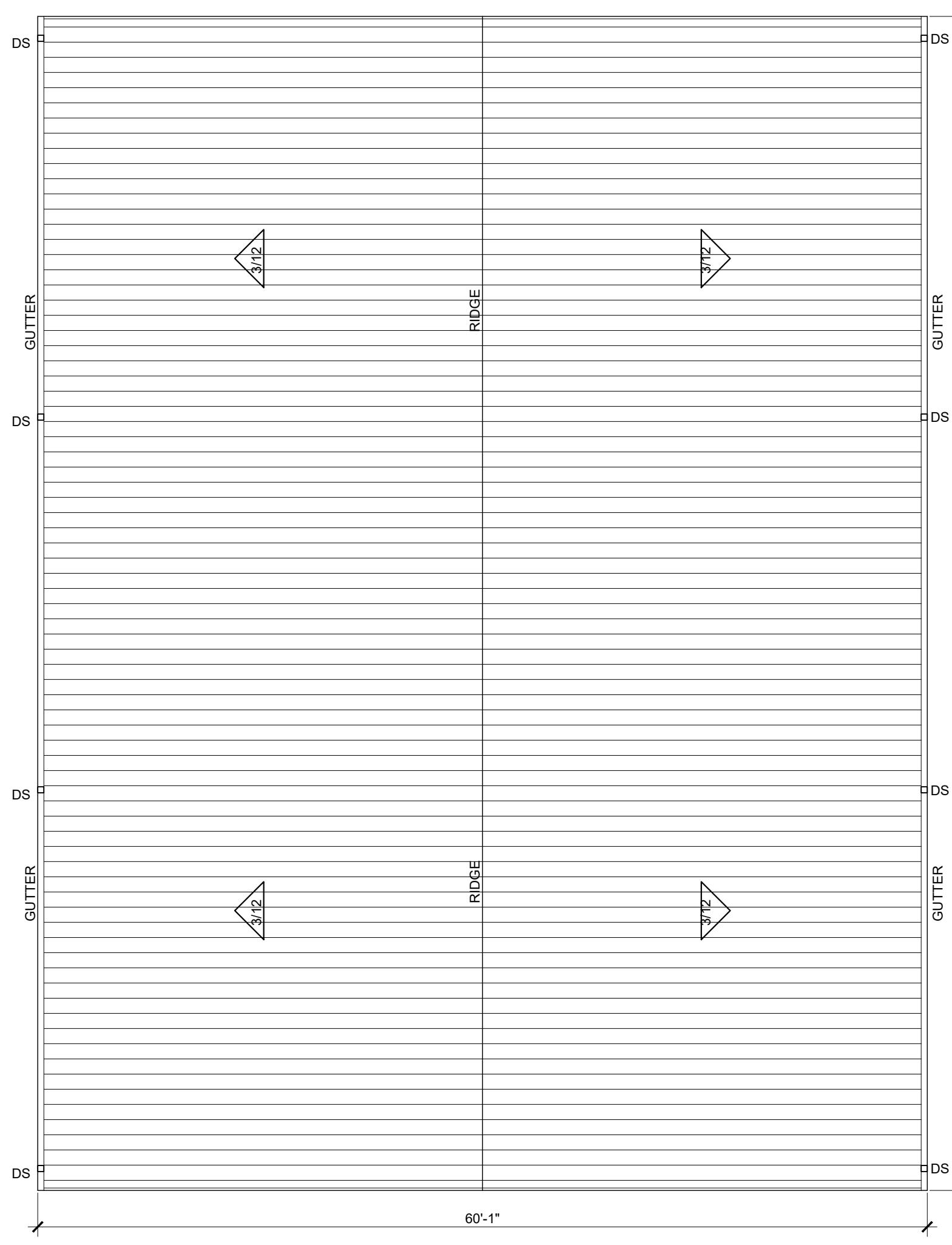
SCALE: 1/4" = 1'-0"

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PROJECT: NEW FIRE STATION  
DRAWN BY: KDP  
JOB NO.: 2025.11  
DATE: 08/01/25  
REVISION: A 08/15/25  
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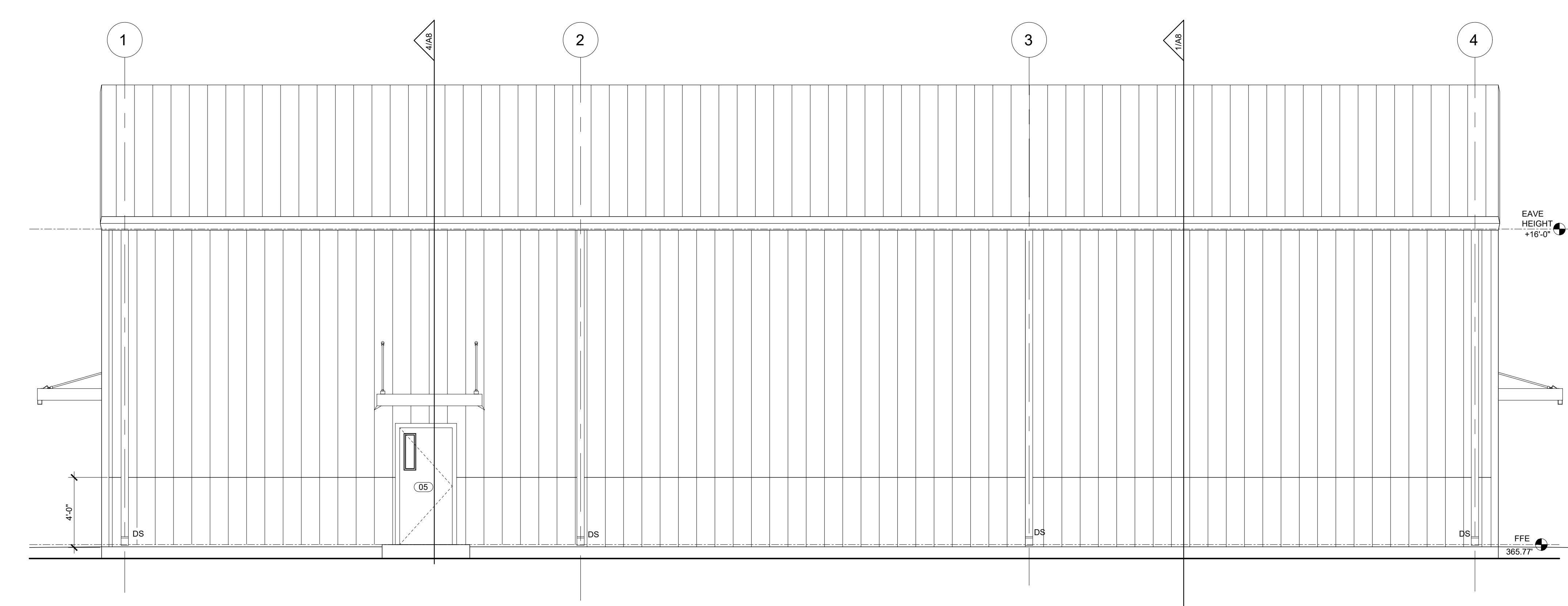
ADDENDUM NO.1 - 08.15.25

Sheet 1 of 1

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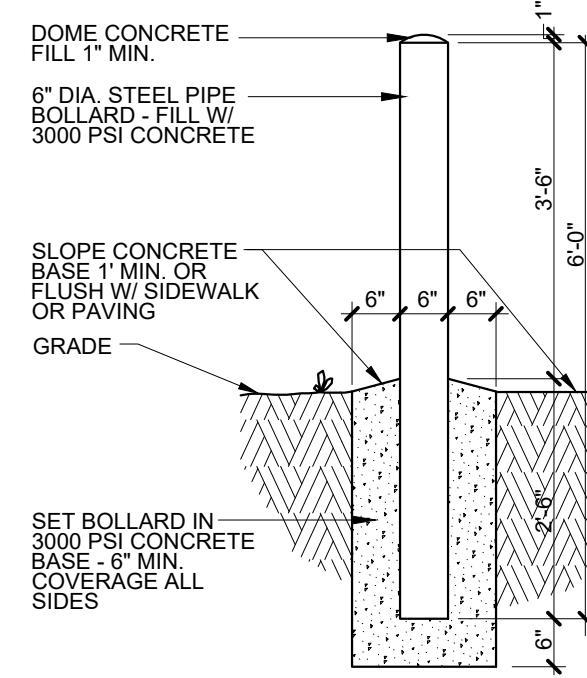
4 ROOF PLAN  
PLAN NORTH



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

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

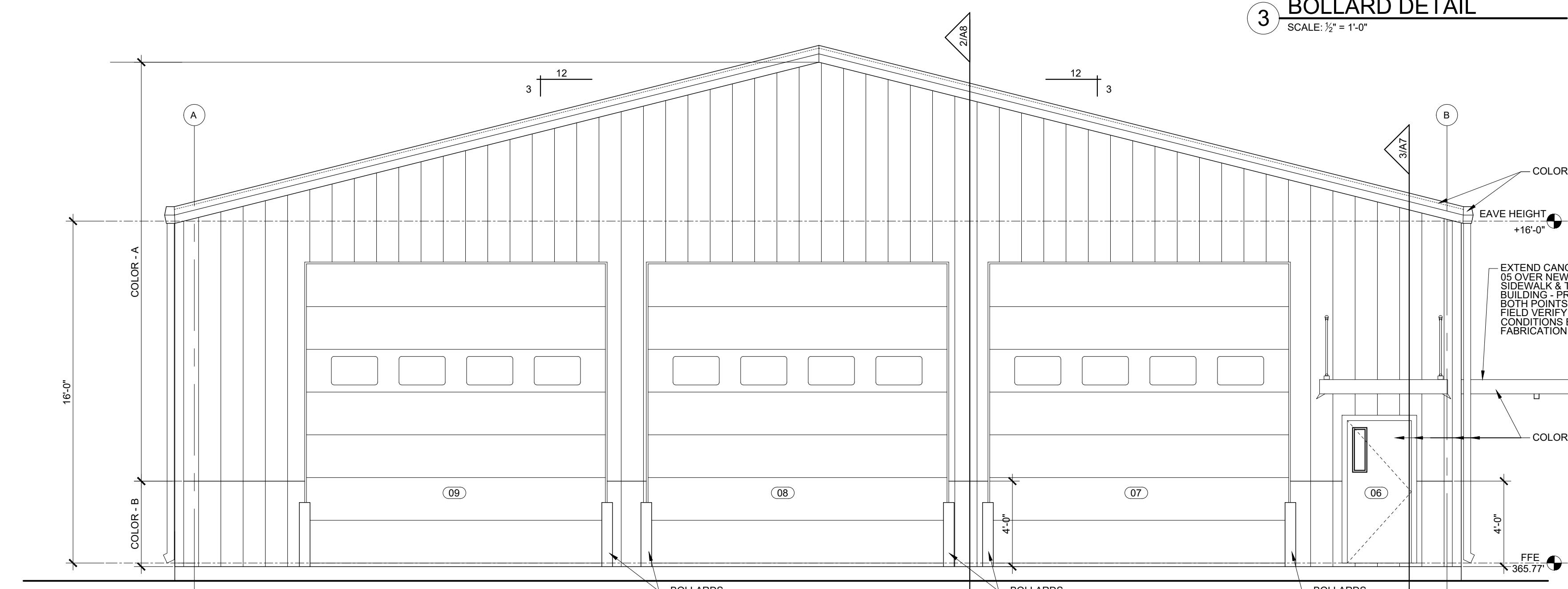
PEMB COLOR NOTES:  
1. COLOR - A = IRON BUILDING WALL COLOR ALL SIDES.  
2. COLOR - B = IRON EAVE CORNER & TRIM ON ALL DOORS, PERSONNEL DOORS & FRAMES & SECTIONAL COLOR - B & IRON WAINSCOT ON ALL SIDES.  
3. COLOR - B = IRON WAINSCOT ON ALL SIDES.  
4. VERIFY COLOR SELECTIONS W/ OWNER.



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

ROOM FINISH SCHEDULE								
NO.	NAME	FLOOR	BASE	WALLS	TRIM	CEILING	CLG. HT.	REMARKS
01	APPARATUS ROOM		EXPOSED CONCRETE - SEALED					
02	WOMEN		NO BASE	4" VINYL BASE				
03	ACCESSIBLE SHOWER			1/2" R PANEL WALL LINER TOT-4"	1/2" TYPE X GYP. BD. ON STUDS - T.B.T & P.			
04	MEN							
05	ACCESSIBLE SHOWER							
06	EXTRACTOR							

GENERAL FINISH NOTES  
1. COLOR, TEXTURE & TYPE FINISHES - TO BE SELECTED  
2. ALL RESTROOM & SHOWER WALLS TO HAVE 4" MIN. SOUND BATT INSULATION BETWEEN STUDS - TYP.  
3. 5/8" MOISTURE RESISTANT TYPE X' GYP. IN WET AREAS - TYP.

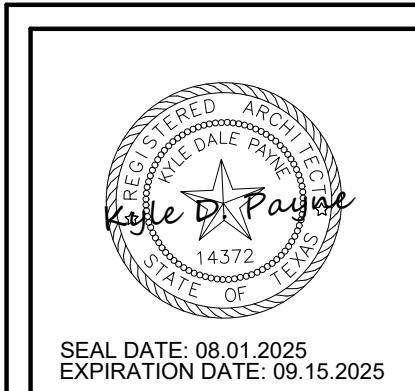


2 NORTH ELEVATION  
SCALE: 1/4" = 1'-0"

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REVISION: A 08/15/25  
SHEET: ELEVATIONS

AC



SEAL DATE: 08.01.2025  
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Kyle D Payne  
14372

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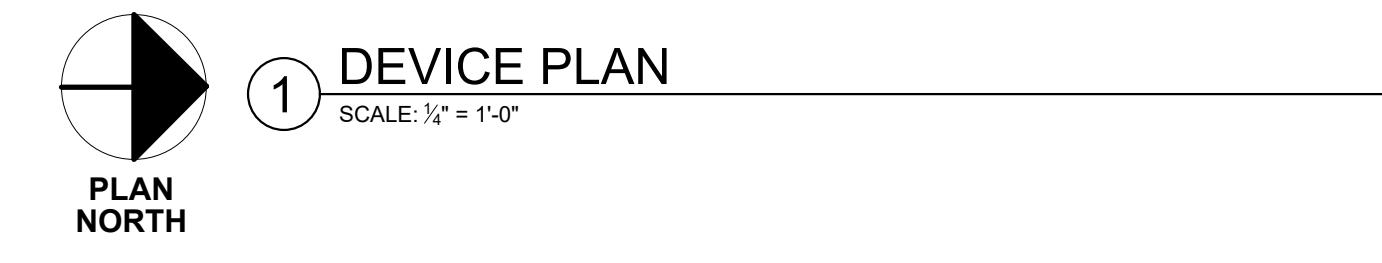
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**KERENS VOLUNTEER FIRE DEPARTMENT**  
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DEVICE SYMBOLS	
SWITCH WIRING	FACP FIRE ALARM CONTROL PANEL
[ECBP] ELECTRIC CIRCUIT BREAKER PANEL	(S) FIRE ALARM STROBE / HORN
[J] JUNCTION BOX WITH CONDUIT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

NOTE:  
NOT ALL SYMBOLS ARE USED.

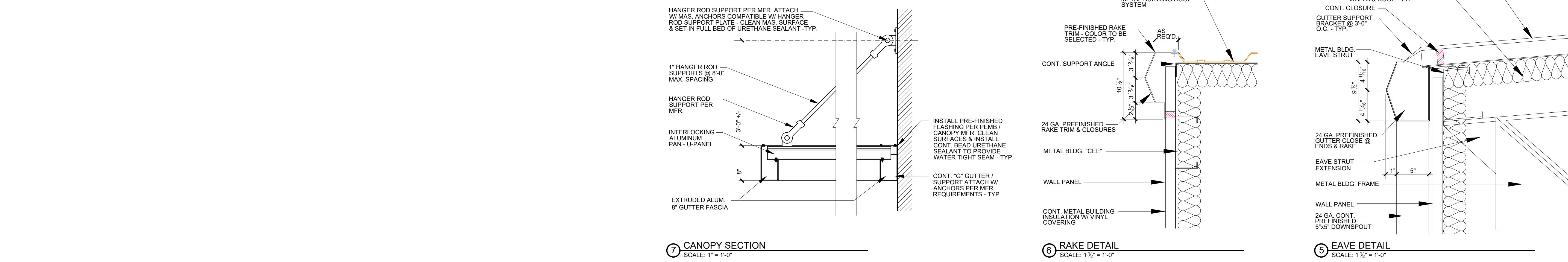


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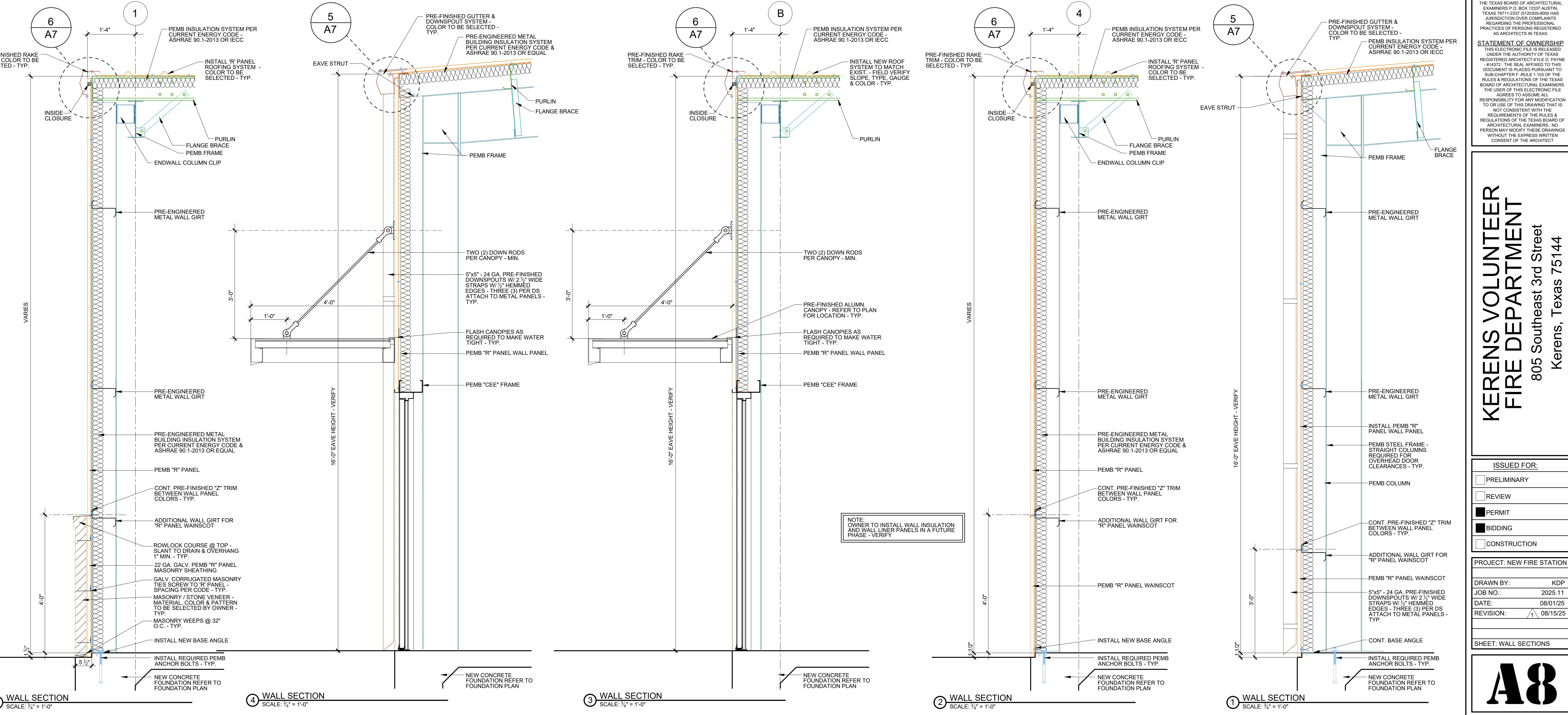
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PROJECT: NEW FIRE STATION

DRAWN BY: KDP  
JOB NO.: 2025.11  
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REVISION: A 08/15/25

SHEET: WALL SECTIONS

**A8**



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SHEET: SPECIFICATIONS

**A9**

## DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

### SECTION 00.21.13 – INSTRUCTIONS TO BIDDERS

A. AIA Document A105 – 2017, Standard Form of Agreement Between Owner and Contractor will be required of the successful bidder for this project.

### SECTION 00.50.00 – CONTRACTING FORMS AND SUPPLEMENTS

A. Conditions: American Institute of Architects (AIA) Document A201, "General Conditions of the Contract for Construction," 2017 Edition, Articles 1 through 15 inclusive is made a part of this Contract.

1. Referenced Conditions maintain force and effect as though set forth in full and shall apply to all portions of the Contract.

B. Contractor is hereby specifically directed as condition of Contract, to obtain necessary number of copies of AIA Document A201 and to become fully acquainted with Articles contained therein.

1. Notify and apprise subcontractors and other parties to Contract and individuals and agencies engaged on Work as to contents.

C. The term "Contractor" under this Contract shall refer to subcontractors as well as General Contractor.

### SECTION 00.70.00 – CONDITIONS OF THE CONTRACT

A. Where provisions of General Conditions relate to Project administration and work-related requirements of the Contract, those paragraphs are expanded in Division 1 – General Requirements.

B. General Conditions, Supplementary Conditions and Division 1 – General Requirements contain information necessary for completion of every part of Project.

C. Term "Furnish" means supply and deliver to Project, unless otherwise defined in greater detail.

D. Term "Install" describes operations at Project, from inspecting and unloading to completion in place, ready for intended use.

E. Term "Provide" means furnish and install, complete and ready for intended use, unless otherwise defined in greater detail.

F. Items approved, selected, directed, required, accepted, acceptable and satisfactory shall require written action by Architect.

G. Insurance: Contractor and the Owner's representative shall review Article 11 – Insurance with their insurance agents and legal counsel and provide coverages as agreed upon, but not for less than that required by law.

1. Submit Insurance Certificate indicating the following:

a. General Aggregate Products / Completed – Employee; \$1,000,000.00 Employers Liability Disease – Policy Limit.

b. Automobiles / Auto Liability – \$1,000,000.00 Combined Single Limit.

c. Worker's Compensation – Current policy with the following limits: Workers Compensation Statutory Limits \$1,000,000.00 Employers Liability – Each Accident; \$1,000,000.00 Employers Liability Disease – Policy Limit.

d. Contractor's liability under the construction contract shall be named as additional insured in regard to General Liability, Business Auto and Workers Compensation.

### DIVISION 01 – GENERAL REQUIREMENTS

#### SECTION 01.00.00 – SUMMARY OF WORK

A. Work of Contract comprises construction of a new facility as indicated in Contract Documents.

B. Contract Documents are intended to encompass everything necessary to perform Work.

C. Titles and headings in Contract documents are for convenience and are not to be taken as a segregation of units of materials and labor.

D. Contractor Use of Premises: Conduct operations to ensure least inconvenience to general public and other businesses.

1. Limit use of premises for construction and storage to areas designated in writing by Owner.

2. Assume full responsibility for protection and safekeeping of products under Contract, including those stored on site.

3. Coordinate access to building with Owner's representative and provide for building security as required.

E. Contractor Coordinate Work to assure efficient and orderly sequence of installation of construction items.

1. Make provisions for accommodating items installed by Owner or under separate Contract.

2. Verify characteristics of interrelated operating equipment are compatible; coordinate work having interdependent responsibilities for installing, connection to and placing equipment in service.

3. Coordinate space requirements and installation of mechanical and electrical work, conceal pipes, ducts and wiring in finished areas. Coordinate locations of fixtures and outlets with finishes.

F. Estimate quantities to be furnished by Owner.

G. Regulatory Requirements: Contractor shall be responsible for contacting governing authorities directly for necessary information and decisions bearing upon performance of Work.

H. Reference Standards: For Products specified by association or trade standards, comply with requirements of referenced standard, except when more rigid requirements are specified or required by applicable codes.

1. Applicable date of standard is that in effect as of Proposal date, except when a specific date is indicated.

I. Cutting and Patching: Cut, fit and patch as required to complete Work to match adjacent undisturbed materials and finished and to:

1. Make parts fit together properly.

2. Recover work of others for installation of ill-fitted work.

3. Repair and replace defective work.

4. Remove and replace work not conforming to Contract Documents.

5. Repair samples of installed work as required by Owner.

6. Provide sufficient quantities of suitable materials for installation of piping and electrical conduit.

7. Should existing fit be matched to be of a new out-of-production or otherwise unavailable material, obtain Owner's representative's specific approval of substitutions.

8. Provide primers, sealers, underlays, supports, backing, blocking, framing, suspension systems and wiring in finished areas. Coordinate locations of fixtures and outlets with finishes.

F. Estimate quantities to be furnished by Owner.

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2. Recover work of others for installation of

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

## 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.	
6.	DESIGN WIND LOAD CRITERIA:	
	V-ULTIMATE	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
	P <sub>f</sub>	4.2 PSF
	C <sub>e</sub>	1.0
	IMPORTANCE FACTOR	1.2
	C <sub>t</sub>	1.0
9.	DESIGN SEISMIC LOAD:	
	RISK CATEGORY	IV
	IMPORTANCE FACTOR	1.50
	S <sub>s</sub>	0.090g
	S <sub>1</sub>	0.050g
	SITE CLASS	D
	S <sub>Ds</sub>	0.096g
	S <sub>D1</sub>	0.080g
	SEISMIC DESIGN CATEGORY	C
	SLRS	STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
	V	0.048 W
	C <sub>s</sub>	0.048
	R	3
	ANALYSIS METHOD	EQUIVALENT LAT. FORCE

### MISCELLANEOUS

1.	SCALES 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 SEI/ASCE 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 FRAMING WITH THE STRUCTURAL ENGINEER OF RECORD.
7.	THERE SHALL BE NO 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, SITWORK, 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
	SKIN FRICTION ----- 500 PSF
	FOR DRILLED AND UNDERREAMED PIERS AT A DEPTH OF 13 FEET BELOW EXISTING GRADE.
3.	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.

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

MIXING, TRANSPORTATION, AND PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301. CONCRETE SHALL NOT BE PLACED WHEN AMBIENT AIR TEMPERATURE IS 40° OR LESS AND FALLING. 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. CONTRACTOR SHALL COORDINATE THE COMPATIBILITY OF ALL CURING COMPOUNDS WITH ARCHITECTURAL FLOOR FINISHES.

REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. FABRIC SHALL BE SUPPLIED IN FLAT SHEETS AND SHALL BE LAPPED 2 MESHES AT SPLICES.

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 "DETAILED MANUAL."

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.

PROVIDE CORNER BARS IN CONCRETE STEM WALLS OR GRADE BEAMS AS DETAILED.

CONCRETE PROTECTION FOR REINFORCING BARS:

GRADE BEAM TOP BARS	-----	1½"
GRADE BEAM SIDE BARS	-----	3"
GRADE BEAM BOTTOM BARS	-----	3"
WALLS	-----	1½"
SLABS	-----	AS DETAILED
FOOTING - BOTT. & SIDES	-----	3"
FOOTING - TOP	-----	2"
DRILLED PIERS	-----	3"

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.

HORIZONTAL JOINTS SHALL NOT BE PERMITTED UNLESS DETAILED OTHERWISE. WHERE ALLOWED, HORIZONTAL JOINTS SHALL BE ROUGHENED TO  $\frac{1}{4}$ " AMPLITUDE PRIOR TO SUBSEQUENT CONCRETE PLACEMENT OPERATIONS. VERTICAL JOINTS IN CONCRETE BEAMS SHALL OCCUR AT MIDSPAN BETWEEN SUPPORTS.

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 SLEEVED THROUGH GRADE BEAMS.

ALL DRILLED/EPOXY SET ANCHORS OR DOWELS SHALL BE AS MANUFACTURED BY HILTI. (NO SUBSTITUTIONS ALLOWED W/OUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.) REFER TO POST-INSTALLED ANCHORS NOTE.

CONTRACTOR SHALL MAKE PROVISIONS FOR FINISHING EXPOSED CONCRETE. AS SOON AS FORMS ARE REMOVED, UNDESIRABLE FINS AND PROJECTIONS SHALL BE REMOVED, OFFSETS SHALL BE LEVELED, 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.

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 (5) 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.

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.

CAST-IN-PLACE CONCRETE ON THE GROUND SHALL HAVE A THICKNESS TOLERANCE OF (-) 0" TO (+) 1".

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.

CONCRETE MIX DESIGN SUBMITTALS SHALL CLEARLY INDICATE THE INTENDED USE OF EACH PROPOSED MIX.

AGGREGATE AND MATERIAL TEST DATA SHALL BE CURRENT (WITHIN THE PAST 6 MONTHS).

CONCRETE MIX DESIGN AND REINFORCING STEEL SUBMITTALS FOR ITEMS DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED SEPARATE FROM ITEMS DETAILED ON ARCH'L. OR CIVIL DRAWINGS.

**STRUCTURED METAL BUILDING**

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.

THE METAL BUILDING MANUFACTURER SHALL DESIGN THE SUPERSTRUCTURE, ASSUMING PINNED BASE CONNECTIONS TO THE FOUNDATION.

THE CONTRACTOR SHALL REFER TO THE PRE-ENGINEERED METAL BUILDING DRAWINGS AND SPECIFICATIONS FOR THE DESIGN OF THE SUPERSTRUCTURE. THE ANCHOR RODS SHALL BE INSTALLED IN ACCORDANCE WITH THE ANCHOR BOLTING PLAN DOCUMENTS PREPARED BY THE METAL BUILDING MANUFACTURER.

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/ ARCH'L.
ROOF LIVE LOAD	-----	20 PSF (REDUCIBLE)
WIND LOAD	-----	REF. CODES & LOADS

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)
OF PURLINS AND GIRDERS:	L/240 (TOTAL) & L/360 (LIVE)
ALL GIRTS:	L/180 (METAL PANEL FINISH)
ALL GIRTS:	L/240 (EIFS FINISH)
ALL GIRTS:	L/600 (MASONRY FINISH)
ALL PANELS:	L/120 (METAL PANEL FINISH)

ADDITIONAL UNIFORM AND/OR CONCENTRATED LOADS, WHERE INDICATED ON THE ARCHITECTURAL, STRUCTURAL, AND/OR SHOP DRAWINGS, SHALL BE INCLUDED IN THE DESIGN.

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/GIRTS 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.

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:

- BUILDING ANCHOR ROD AND FRAMING LAYOUT PLANS.
- DESIGN LOADS ON THE OVERALL BUILDING AND INDIVIDUAL MEMBERS.
- DRIFT AND DEFLECTION CRITERIA USED FOR THE OVERALL BUILDING AND INDIVIDUAL MEMBERS FOR GRAVITY LOADING AND WIND LOADING.
- DIMENSIONAL, SECTION, AND MATERIAL PROPERTIES OF ALL MEMBERS.
- ALLOWABLE AND ACTUAL DESIGN STRESSES FOR EACH MEMBER.
- LOCATION AND TYPE OF BRACING FOR OVERALL BUILDING AND INDIVIDUAL MEMBERS (WIND BENTS, X-BRACING, SAG RODS, PURLIN FLANGE BRACING, ETC.)
- ANCHOR RODS, DIAMETER, AND PROJECTION REQUIREMENTS.
- 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).
- 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.

THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL SUBMIT A LETTER OF CERTIFICATION WITH THE SHOP DRAWING SUBMITTAL INDICATING THE FOLLOWING:

- ACKNOWLEDGE RECEIPT OF FOUNDATION CONSTRUCTION DOCUMENTS.
- DESIGN CODES AND LOADS.
- DESIGN DRIFT CRITERIA FOR FRAMES.
- DESIGN DEFLECTION CRITERIA FOR PURLINS, GIRTS, AND SPANDREL BEAMS.

RETER TO FOUNDATION PLAN FOR ADDITIONAL METAL BUILDING NOTES.

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SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AND SUBMITTED FOR REVIEW BY THE ENGINEER. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS. ALL ITEMS DEVIATING FROM THE CONTRACT DRAWINGS OR FROM PREVIOUSLY SUBMITTED SHOP DRAWINGS SHALL BE CLOUDED.

THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHALL CERTIFY THAT HE HAS DONE SO BY A STAMP NOTING THAT THE DRAWINGS HAVE BEEN "APPROVED" AND WHICH BEARS THE SIGNATURE (OR INITIALS) OF AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND THE DATE. SUBMITTALS WHICH DO NOT REFLECT THE CONTRACTOR'S APPROVAL, SIGNATURE AND DATE WILL BE RETURNED WITHOUT REVIEW.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTION OF INADEQUATE SHOP DRAWINGS. WHERE REVIEW AND RETURN OF SHOP DRAWINGS IS REQUIRED OR REQUESTED, THE ENGINEER WILL REVIEW EACH SUBMITTAL AND, WHERE POSSIBLE, RETURN WITHIN TWO WEEKS OF RECEIPT. EXPEDITED REVIEW OF SUBMITTALS IS NOT INCLUDED IN THE ENGINEER'S SCOPE OF WORK.

RECTIONS OR COMMENTS ON SHOP DRAWINGS OR MANUFACTURER'S DATA SHEETS DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. THE ENGINEER'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRECTING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, AND COORDINATING HIS WORK WITH THAT OF ALL OTHER CONTRACTORS.

GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ELECTRONICALLY. ENGINEER WILL REVIEW, COMMENT AND TURN ONE COPY OF EACH SUBMITTAL AND ONE ELECTRONIC COPY FOR DISTRIBUTION TO ARCHITECT, OWNER AND CONTRACTOR. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND DISTRIBUTING ENGINEER'S COMMENTS TO THEIR SUBCONTRACTORS.

STRUCTURAL STEEL SUBMITTAL SHALL INCLUDE INDUSTRY FOUNDATION CLASSES (IFC) MODEL ALONG WITH THE PDF COPY OF THE ERECTION, DETAIL, AND PIECEMARK SHEETS.

SUBMITTAL LIST AND SCHEDULE – THE GENERAL CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE LIST SHALL BE UPDATED AND REVISED AND KEPT CURRENT AS THE JOB PROGRESSES. THE SUBMITTAL LIST SHALL BE ORGANIZED SHOWN BELOW:

- SHOP DRAWINGS
- MANUFACTURERS LITERATURE FOR PRODUCTS, ASSEMBLIES AND HARDWARE
- PRODUCTS, ASSEMBLY AND HARDWARE
- PRODUCT CERTIFICATIONS, MILL CERTIFICATES AND AFFIDAVITS

PRODUCTIVE USE OF THE STRUCTURAL DRAWINGS IN PART OR IN WHOLE FOR SHOP DRAWINGS, ERECTION DRAWINGS, ANY OTHER SUBMITTAL PURPOSES SHALL NOT BE ALLOWED.

RED MARKS ON SHOP DRAWINGS ARE NOT NECESSARILY CHANGES TO THE PROJECT. RED MARKS ARE INDICATIONS AND CORRECTIONS TO THE INTERPRETATION OF THE CONTRACT DOCUMENTS.

**TERS**

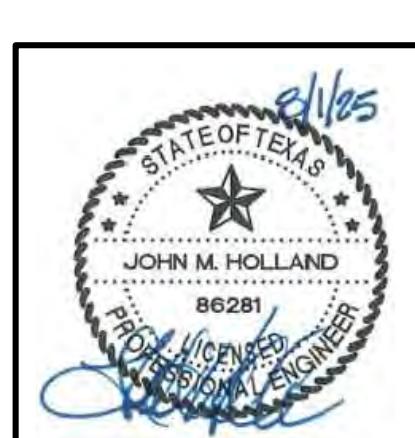
CONCRETE REINFORCEMENT CONTRACTOR SHALL PROVIDE A LETTER STATING THAT THE CONCRETE REINFORCING WAS INSTALLED PER THE CONTRACT DOCUMENTS.

GENERAL CONTRACTOR TO PROVIDE A LETTER TO THE ENGINEER STATING ALL STRUCTURAL ELEMENTS HAVE BEEN INSTALLED PER THE STRUCTURAL CONTRACT DOCUMENTS, SHOP DRAWINGS AND SUPPLEMENTAL SKETCHES WITHOUT DEVIATION.

STRUCTURAL STEEL ERECTOR SHALL PROVIDE A LETTER STATING THAT ALL STRUCTURAL STEEL MEMBERS WERE INSTALLED PER THE STRUCTURAL DRAWINGS.

CONCRETE MASONRY CONTRACTOR SHALL PROVIDE A LETTER STATING ALL CMU REINFORCING WAS INSTALLED PER CONTRACT DOCUMENTS.

CONTRACTOR SHALL PROVIDE A LETTER STATING ALL CMU MEMBERS WERE INSTALLED PER CONTRACT DOCUMENTS.



# KERENS VOLUNTEER FIRE DEPARTMENT

5 Southeast 3rd Street

# PAYNE & ASSOCIATES

ARCHITECT & CONSTRUCTION SERVICES

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ON THIS SITE FOR THIS PROJECT & SHALL  
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**STATEMENT OF JURISDICTION**  
THE TEXAS BOARD OF ARCHITECTURAL  
EXAMINERS P.O. BOX 12337 AUSTIN,  
TEXAS 78711-2337 (512)303-9000 HAS  
JURISDICTION OVER COMPLAINTS  
REGARDING THE PROFESSIONAL  
PRACTICES OF PERSONS REGISTERED  
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**KERENS VOLUNTEER  
FIRE DEPARTMENT**

805 Southeast 3rd Street  
Kerens, Texas 75144

REVIEW  
 PERMIT  
 BIDDING

CONSTRUCTION

JOB NO.:	2025.11
DATE:	08/01/25
REVISION:	

**SHEET: GENERAL NOTES**

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III SU

IBC SPECIAL INSPECTION REQUIREMENTS			
1. 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.			
2. 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 INSPECTION.			
3. 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.			
4. 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.			
5. 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.			
6. 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.			
7. 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.			
8. 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.			
9. 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 DRAWN 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/ACI 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
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, 26.12
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 (VS) AS DELIVERED TO THE PROJECT SITE FOR SELF-CONSOLIDATING GROUT		ART. 1.5B.1.b.3
	VERIFY FRESHNESS OF CONCRETE FOR SELF-CONSOLIDATING GROUT	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 PROPER GROUT SPACING AND CLEANLINESS OF CELL PRIOR TO GROUTING	PRIOR TO START OF EACH LIFT	ART. 2.6B & 2.4G.1.b
P	VERIFY PROPER GROUT PLACEMENT IN COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	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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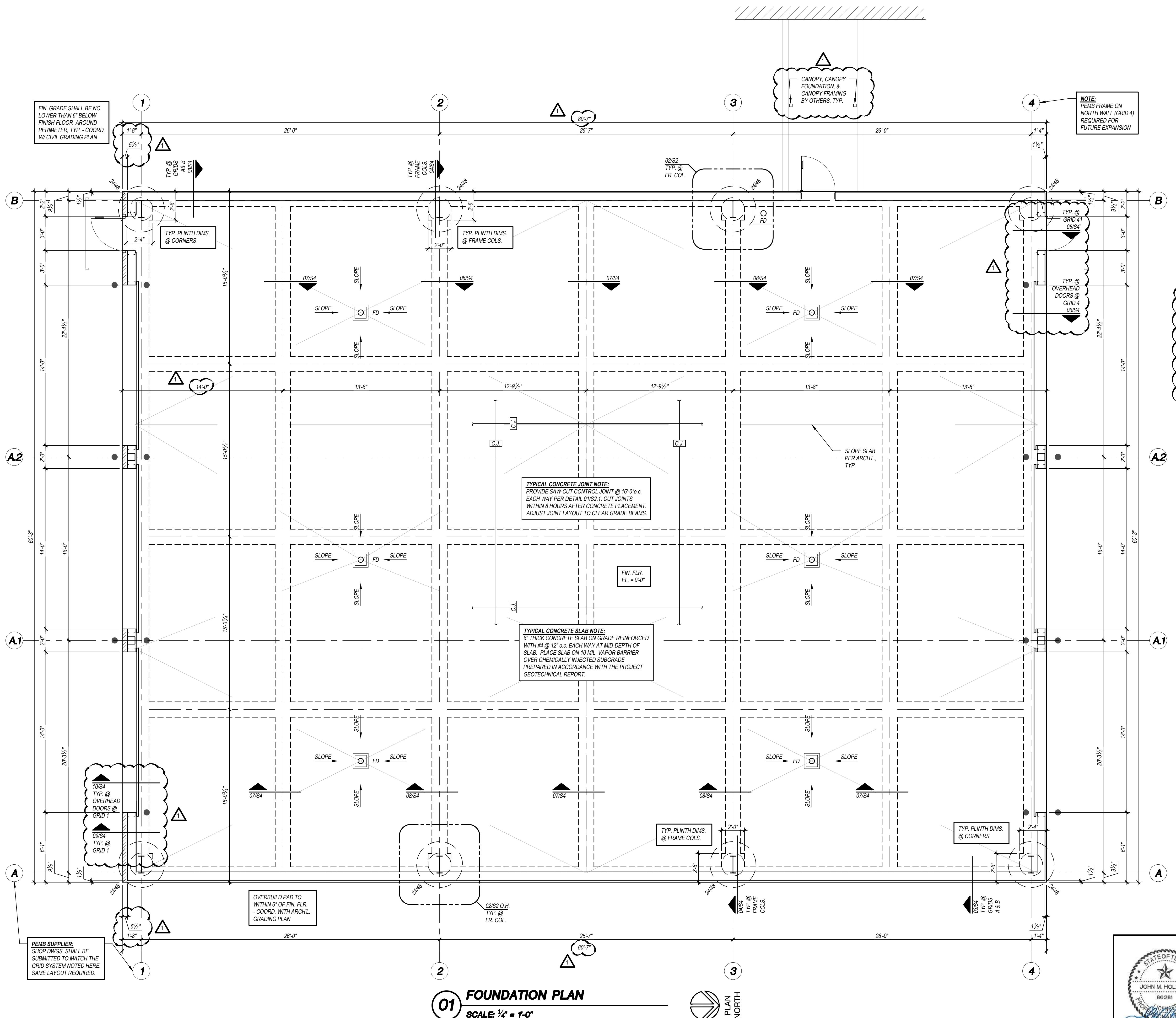
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**KERENS VOLUNTEER FIRE DEPARTMENT**  
805 Southeast 3rd Street  
Kerens, Texas 75144

**ISSUED FOR:**  
 PRELIMINARY  
 REVIEW  
<



# 01 FOUNDATION PLAN

SCALE:  $\frac{1}{4}$ " = 1'-0"

 PLAN NORTH

**FOUNDATION PLAN NOTES:**

1. REFER TO SHEET S0 FOR GENERAL NOTES.
2. REFERENCE FINISH FLOOR ELEVATION = 0'-0".  
ACTUAL FINISH FLOOR ELEVATION = 365.77" (FIELD VERIFY).
3. 24/48, EXAMPLE, DENOTES DRILLED PIER SIZE. (REFER TO SHEET S4 SCHEDULE & DETAILS.)
4. REFER TO SHEET S2.1 FOR TYPICAL DETAILS NOT SPECIFICALLY SHOWN ON PLAN.
5. FD, EXAMPLE, DENOTES FLOOR DRAIN. COORD. LOCATION AND ELEVATION WITH ARCH'L. DRAWINGS.
6. COORDINATE ALL WALL LOCATIONS WITH ARCH'L. WALL LAYOUT PLANS.

**VAPOR BARRIER NOTE:**  
FURNISH AND INSTALL 10 MIL. POLYETHYLENE MEMBRANE VAPOR BARRIER UNDER ALL INTERIOR SLABS ON GRADE. VAPOR BARRIER SHEETS SHALL BE INSTALLED OVER LEVEL, COMPACTED, SUBGRADE WITH MINIMUM 6" JOINT LAPS. JOINT LAPS SHALL BE SEALED CONTINUOUSLY WITH MANUFACTURER'S TAPE. SEAL CAREFULLY AROUND ALL PIPES, CONDUITS, ETC., WHICH PENETRATE THE SLAB. SEAL ALL TEARS AND PUNCTURES PRIOR TO PLACING CONCRETE.

**SITE PREPARATION NOTE:**  
ALL SITE PREPARATION, INCLUDING BUT NOT LIMITED TO SURFACE AND SUBSURFACE GROUNDWATER DRAINAGE AND SITE RETAINING WALLS, SHALL BE AS DESIGNED AND SPECIFIED BY THE GEOTECHNICAL ENGINEER, CIVIL ENGINEER, AND/OR RETAINING WALL ENGINEER.

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.

**CONTRACTOR NOTE:**  
CONCRETE PLINTH AND DRILLED PIER SIZES INDICATED HERE ARE PRELIMINARY  
BASED ON ASSUMED COLUMN SIZES AND REACTIONS IN LIEU OF ACTUAL PROJECT  
SPECIFIC INFORMATION FROM THE PEMB SUPPLIER. PLINTH AND DRILLED PIER  
SIZES ARE SUBJECT TO CHANGE WITH THE FINAL BUILDING DESIGN. THEREFORE,  
CONCRETE SHALL NOT BE PLACED UNTIL FINAL REACTIONS HAVE BEEN PROVIDED  
BY THE PEMB SUPPLIER AND FOUNDATION DESIGN HAS BEEN APPROVED AND/OR

CONCRETE SUBCONTRACTOR SHALL PROVIDE A LINE ITEM UNIT COST IN BASE BID TO ACCOMMODATE ANY NECESSARY FOOTING SIZE INCREASES. IF FOOTING SIZES ARE REDUCED, OWNER SHALL BE GIVEN A CREDIT BASED ON THE SAME UNIT COST.

**SPECIAL NOTE:**  
DETAILS AND DRAWINGS IN THIS SET OF CONSTRUCTION DOCUMENTS REPRESENT CONSTRUCTION REQUIREMENTS FOR THE FLOOR SLAB AND FOUNDATION SYSTEM ONLY. NO LIABILITY, WHETHER EXPRESS OR IMPLIED, FOR DESIGN OF ROOF OR FLOOR FRAMING, WIND BRACING, WALL FRAMING, COLUMNS, OR ANY OTHER SUPERSTRUCTURE FRAMING, SHALL BE ASSUMED BY HOLLAND ENGINEERING, LLC.

**SPECIAL NOTE:**  
UNLESS NOTED OR SPECIFICALLY DETAILED OTHERWISE, ALL BEAM/GIRTS, RIGID FRAMES, COLUMNS, ANCHOR BOLTS, PURLINS, BRACING, ETC. SHALL BE DESIGNED, DETAILED, AND PROVIDED BY THE METAL BUILDING MANUFACTURER.

ALL WALL GIRTS  
SHALL BE  
BYPASS SYSTEM

CONC. LINE

4" MIN.

8"

1'-0"

1 1/2"

6" MIN. FOR 3/4" Ø  
4" MIN. FOR 1" Ø

GR. BM. LINE

PLINTH LINE

Detailed description: This technical drawing illustrates a wall girt system. It features a horizontal concrete line (CONC. LINE) at the top and a plinth line (PLINTH LINE) at the bottom, both indicated by dashed lines. A vertical wall girt is shown, with a dimension of 8" between the top of the girt and the plinth line. The girt is supported by a bracket. A dimension of 1'-0" is shown from the bottom of the girt to the top of the bracket. A dimension of 1 1/2" is shown from the top of the bracket to the top of the concrete line. A callout specifies '4" MIN.' and '8"'. Another callout specifies '6" MIN. FOR 3/4" Ø' and '4" MIN. FOR 1" Ø'. A callout for 'GR. BM. LINE' points to a dashed rectangular line within a wall cavity. A callout for 'PLINTH LINE' points to the bottom dashed line. Three circles are drawn on the concrete line, and one circle is drawn on the plinth line.

# FRAME COL ANCHOR ROD LAYOUT

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

# KERENS VOLUNTEER FIRE DEPARTMENT

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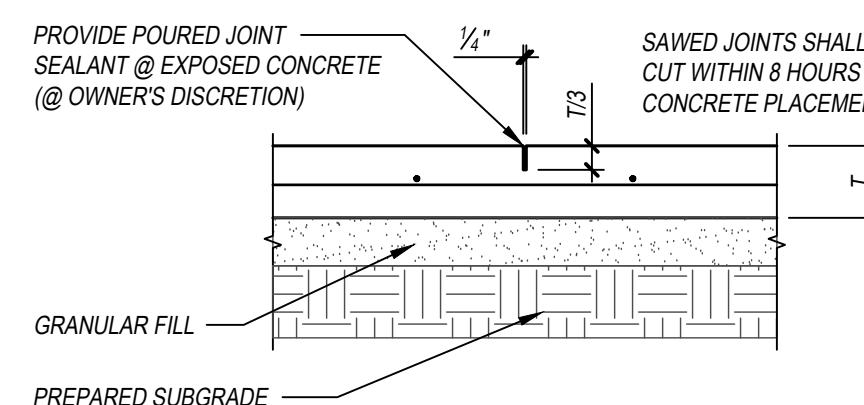
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BIDDING

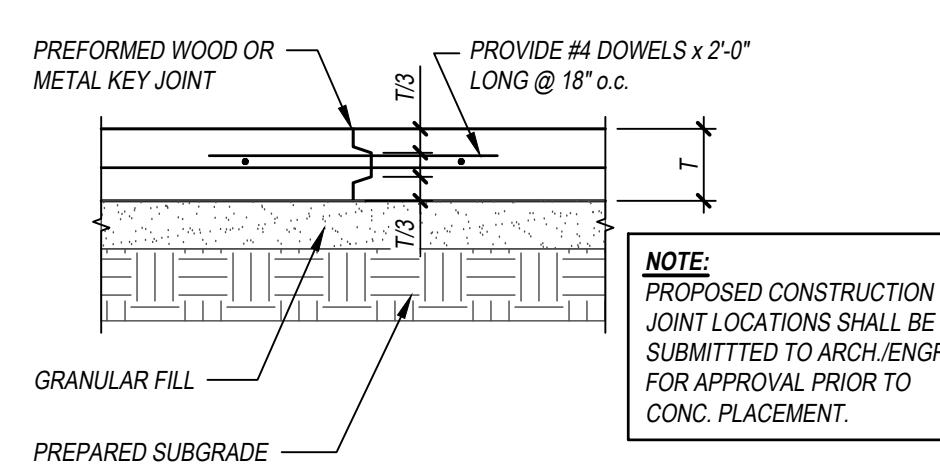
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DRAWN BY: DES/CBE  
JOB NO.: 2025.11  
DATE: 08/01/25  
REVISION: ADD. #1 08/15/25

## HEET: FOUNDATION PLAN

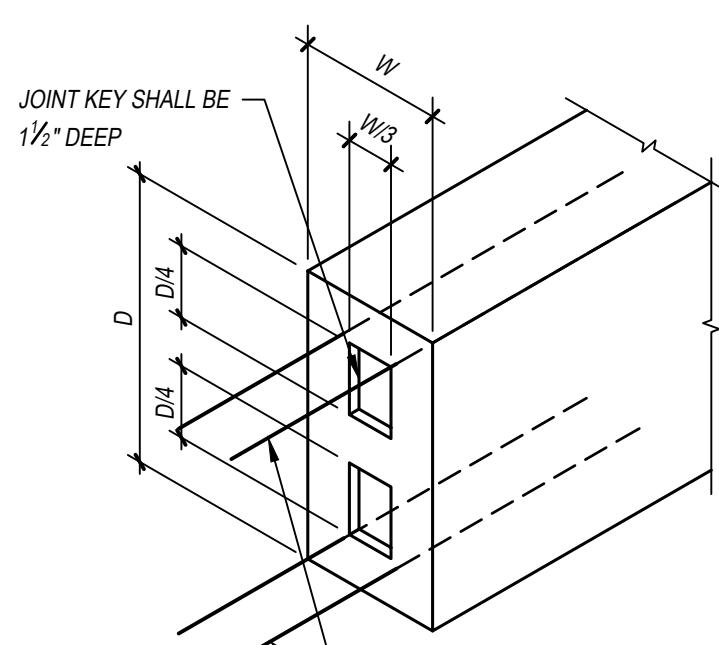
**S2**



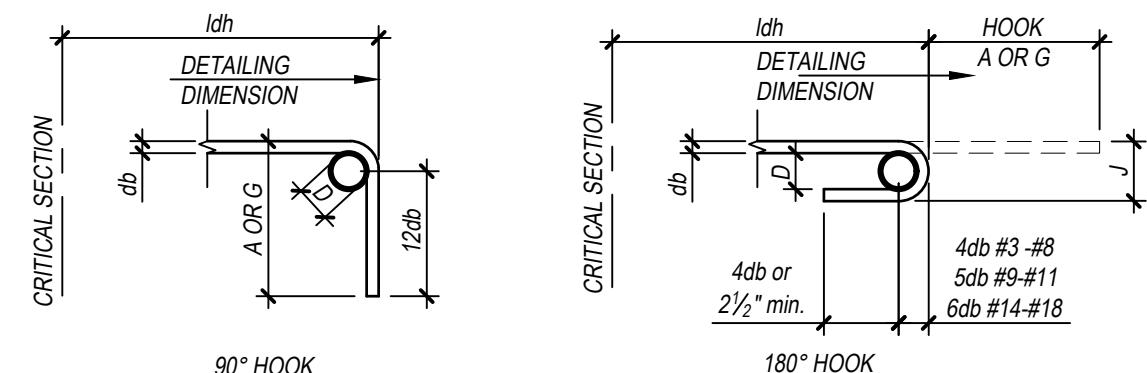
**01**  
**TYPICAL SLAB SAWCUT  
CONTROL JOINT DETAIL**  
**S3**  
**SCALE: NONE**



**02**  
**TYPICAL SLAB KEYED  
CONSTRUCTION JOINT DETAIL**  
**S3**  
**SCALE: NONE**



**03**  
**TYPICAL GRADE BEAM KEYED  
CONSTRUCTION JOINT DETAIL**  
**S3**  
**SCALE: NONE**



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

**07**  
**TYPICAL DETAIL END HOOK TYPES**  
**S3**  
**SCALE: NONE**

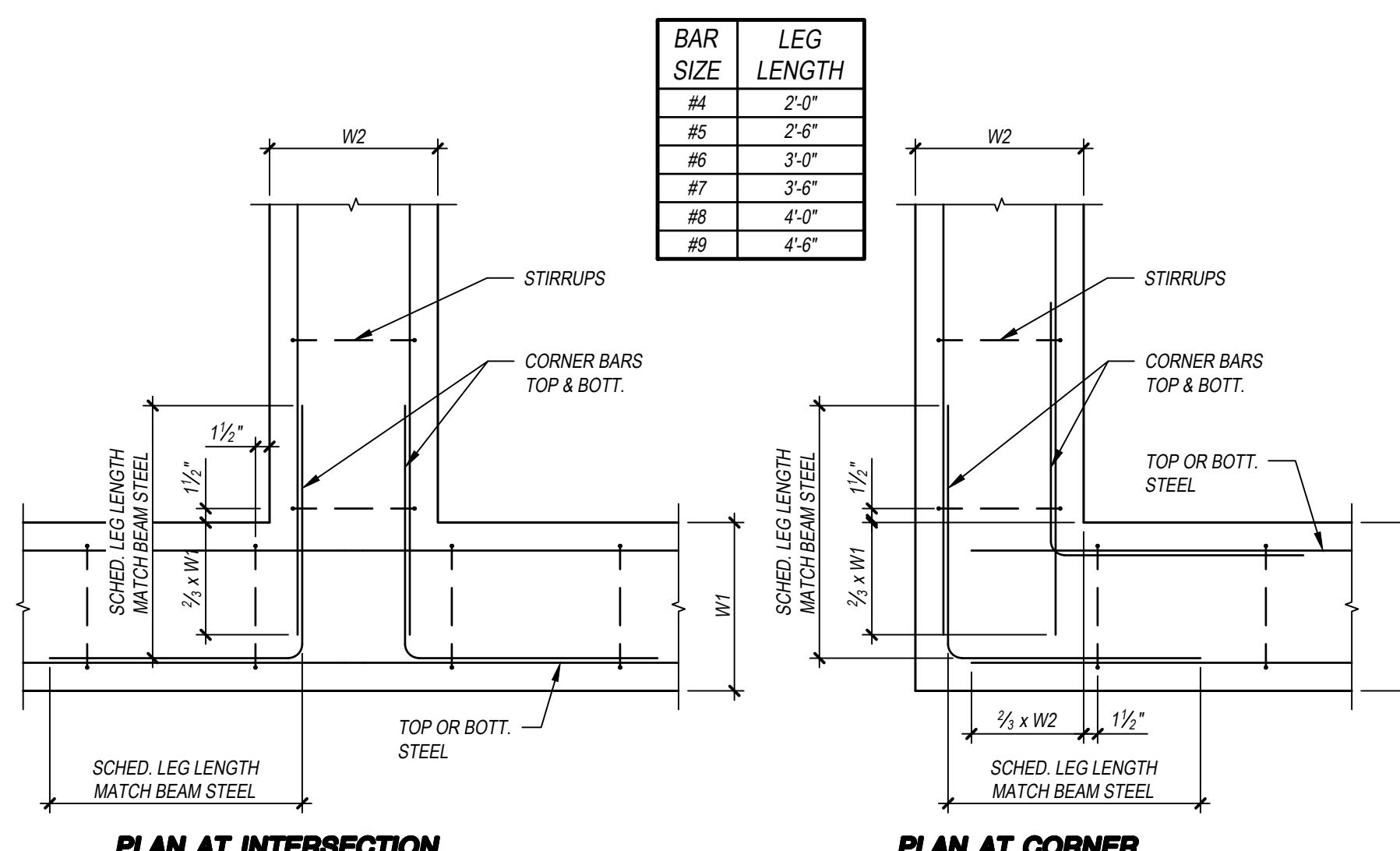
8

**TYPICAL DETAIL STIRRUP  
AND TIE HOOK TYPES**  
**S3**  
**SCALE: NONE**

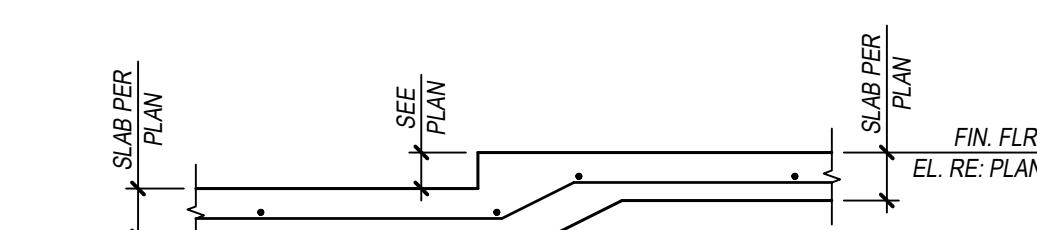
9

**08**  
**REINFORCEMENT DEVELOPMENT SCHEDULE**  
**S3**  
**SCALE: NONE**

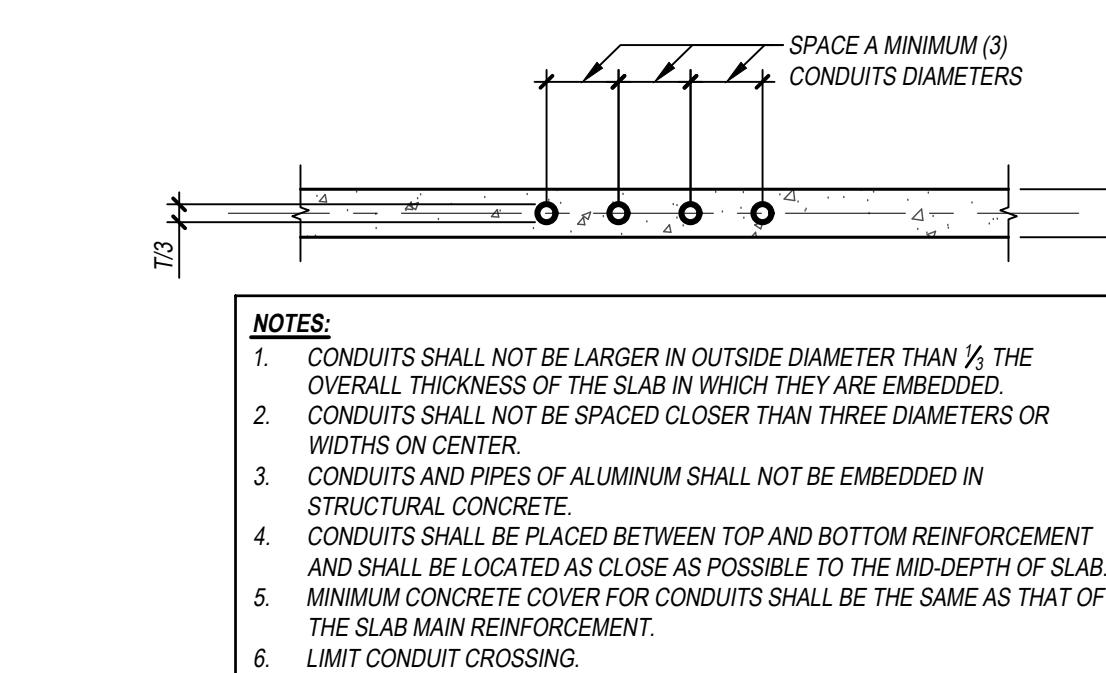
BAR SIZE	LEGG LENGTH
#4	2'-0"
#5	2'-6"
#6	3'-0"
#7	3'-6"
#8	4'-0"
#9	4'-6"



**PLAN AT CORNER**



**05**  
**TYPICAL SLAB DEPRESSION < 3"**  
**S3**  
**SCALE: NONE**



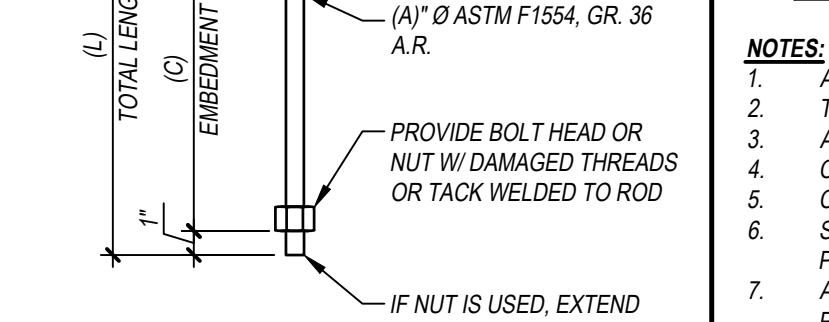
**NOTES:**

1. CONDUITS SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN  $\frac{1}{4}$  THE OVERALL THICKNESS OF THE SLAB IN WHICH THEY ARE EMBEDDED.
2. CONDUITS SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDENS ON CENTER.
3. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
4. CONDUITS SHALL BE PLACED BETWEEN TOP AND BOTTOM REINFORCEMENT AND SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-DEPTH OF SLAB.
5. MINIMUM CONCRETE COVER FOR CONDUITS SHALL BE THE SAME AS THAT OF THE SLAB MAIN REINFORCEMENT.
6. LIMIT CONDUIT CROSSING.

**06**  
**TYPICAL EMBEDDED CONDUITS DETAIL**  
**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.

A	B	C	L	WASHER
1/8"				
1/4"				
1/2"				



**NOTES:**

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

**10**  
**ANCHOR ROD DETAILS AND SCHEDULE FOR PEMB COLUMNS**  
**S3**  
**SCALE: NONE**

10

**SECTION VIEW**

**NOTES:**

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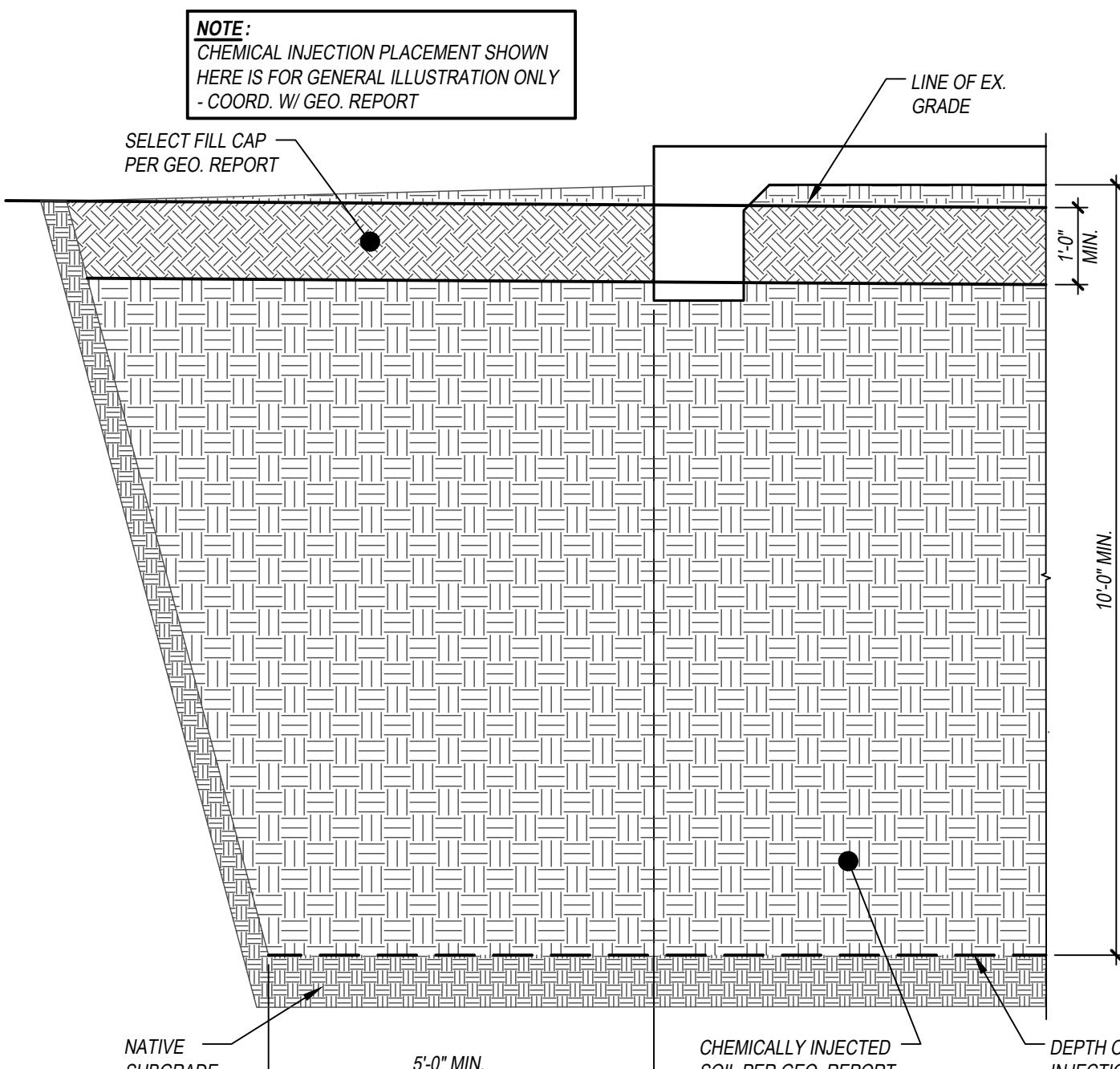
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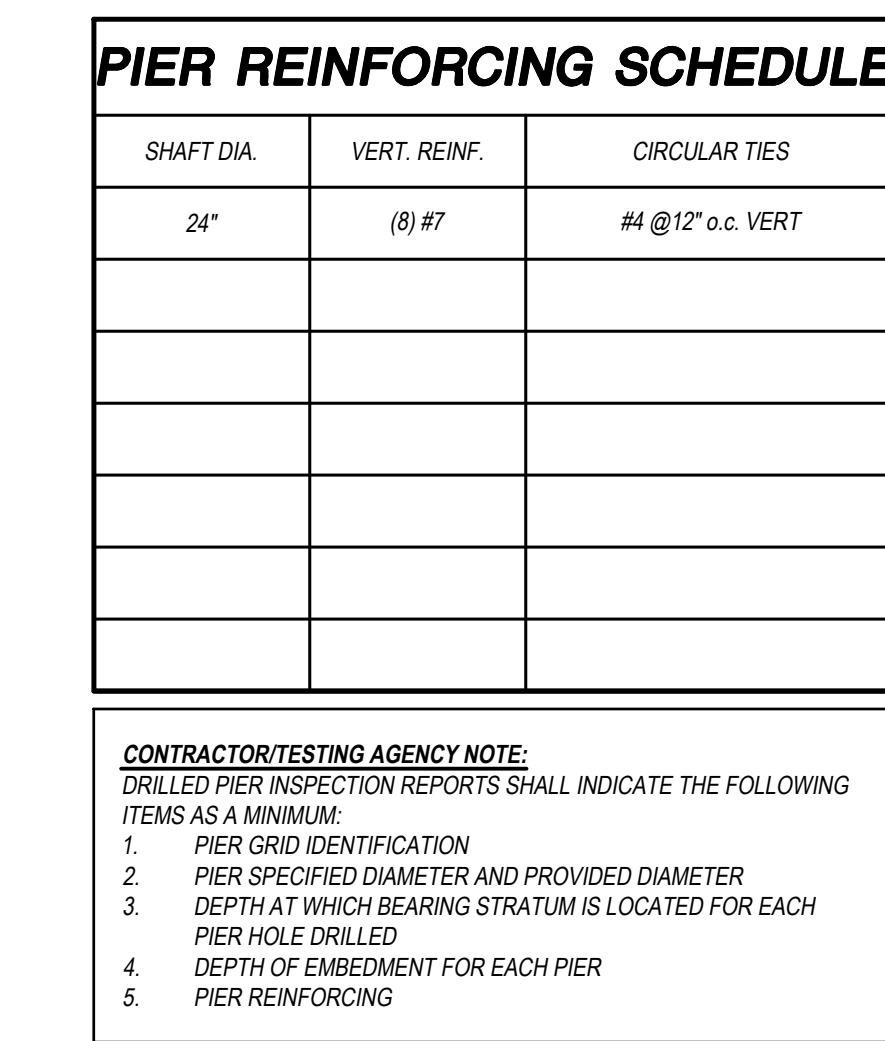
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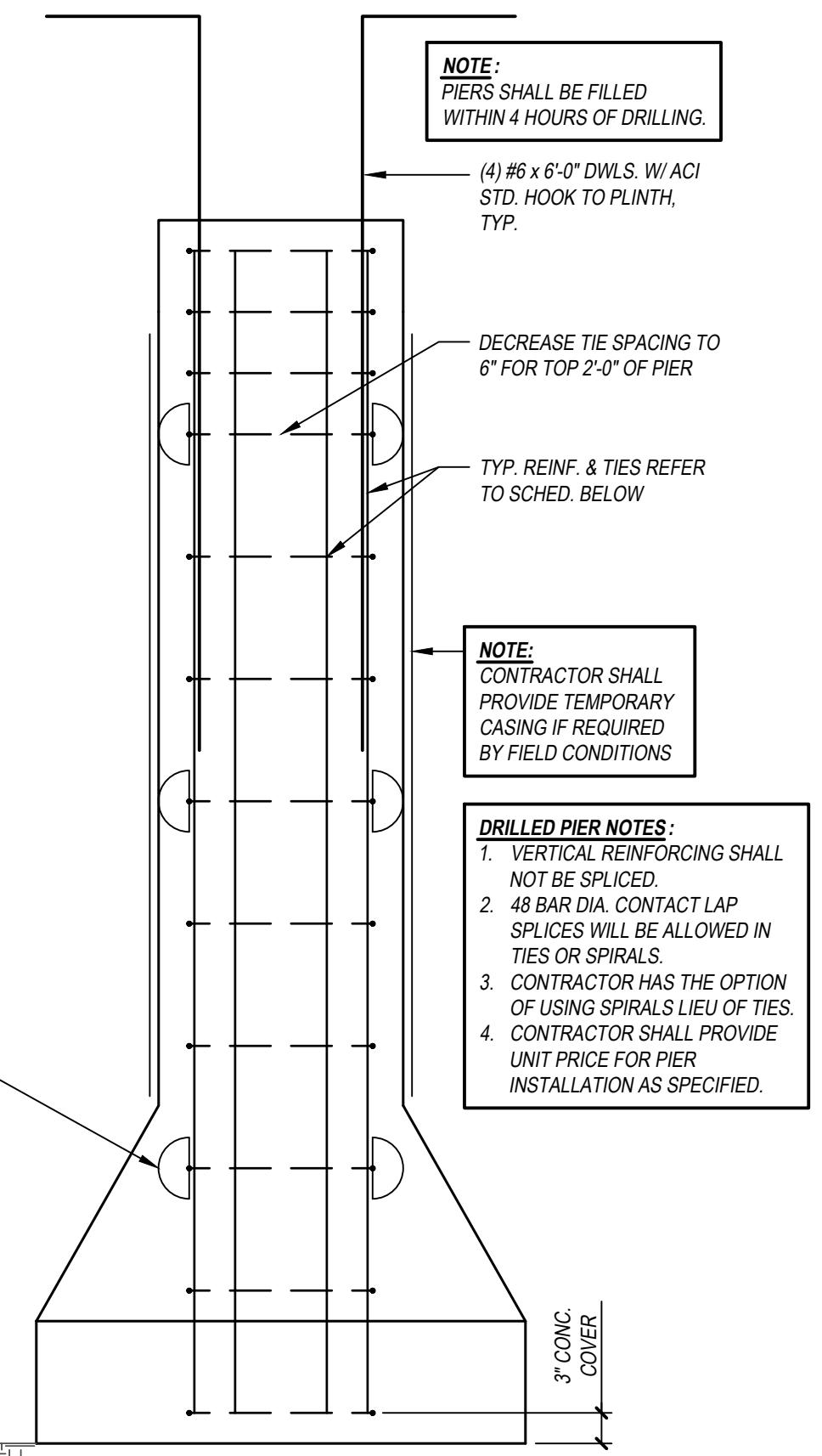
75.



**01** **S4** **SUBGRADE PREPARATION DETAIL**  
**SCALE: NONE**



# **TYPICAL DRILLED AND UNDERREAMED PIER DETAIL**

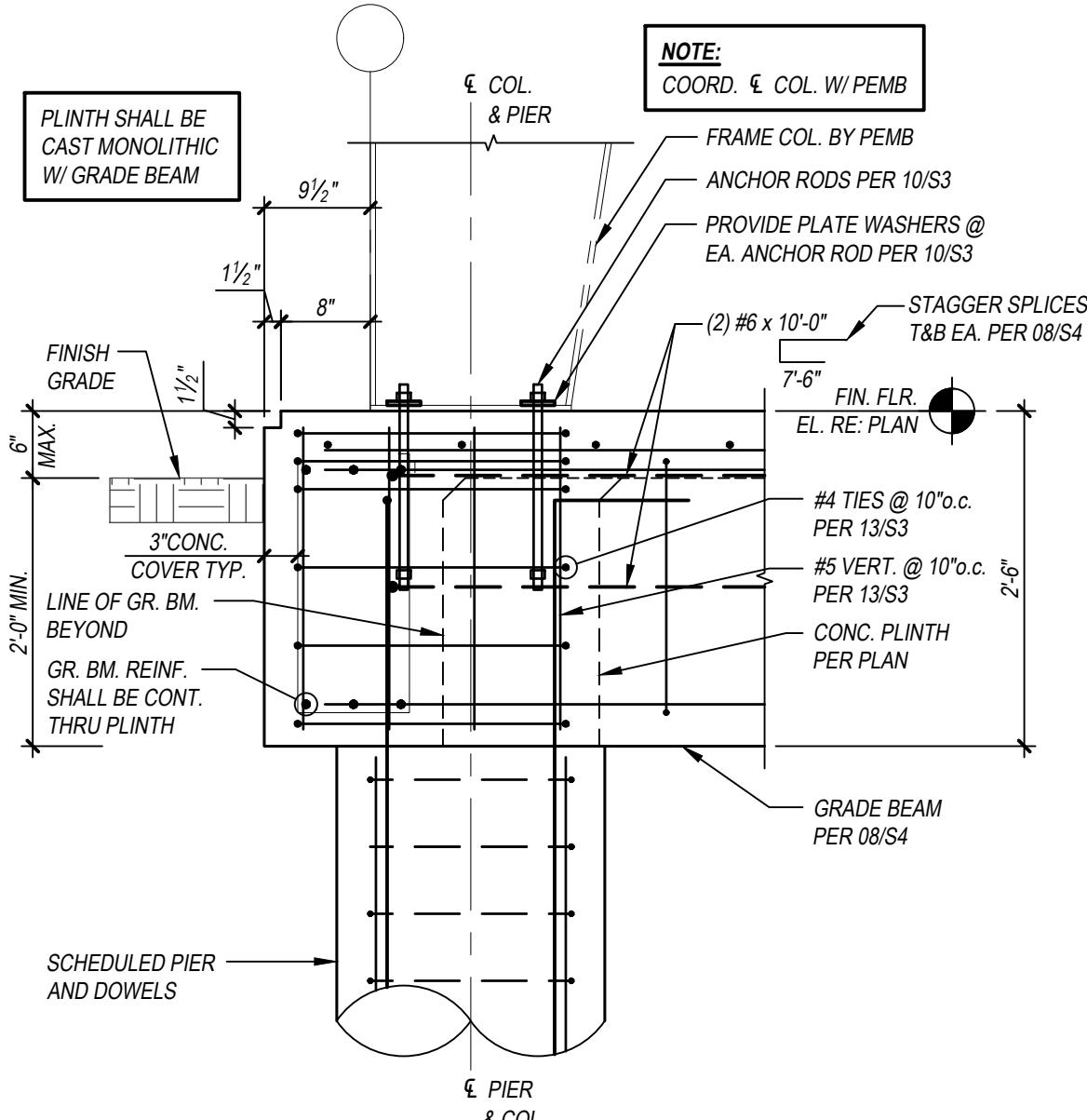


**03**  
**S4**

---

**SECTION**

**SCALE:  $\frac{3}{4}$ " = 1'-0"**



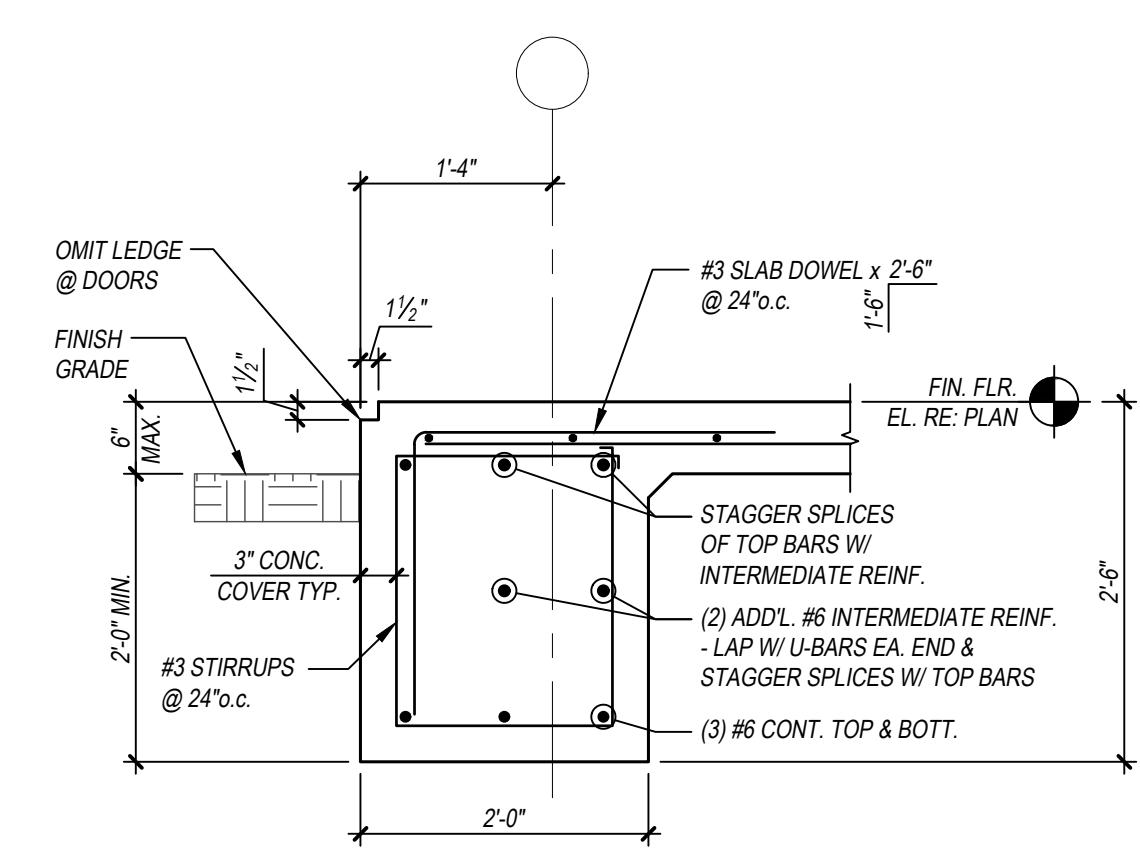
**SECTION**

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**04**

**S4**

**SCALE:  $\frac{3}{4}$ " = 1'-0"**

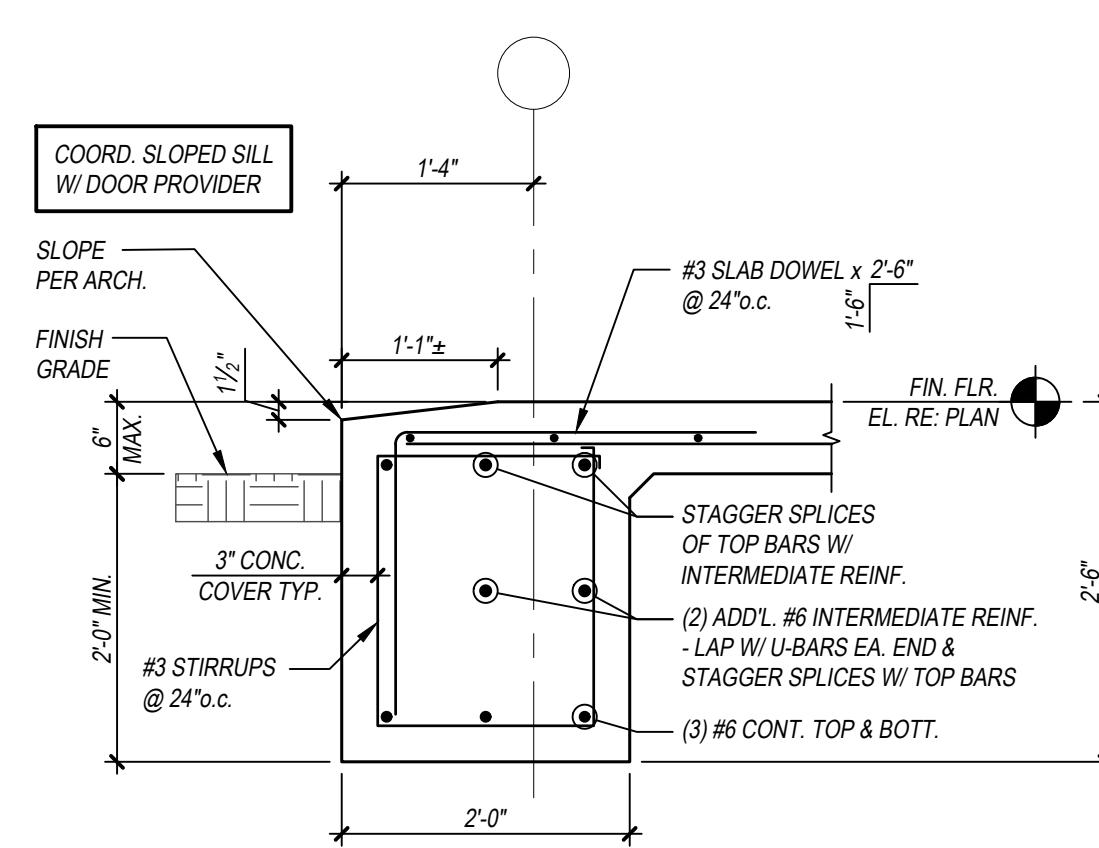


**05**  
**S4**

---

**SECTION**

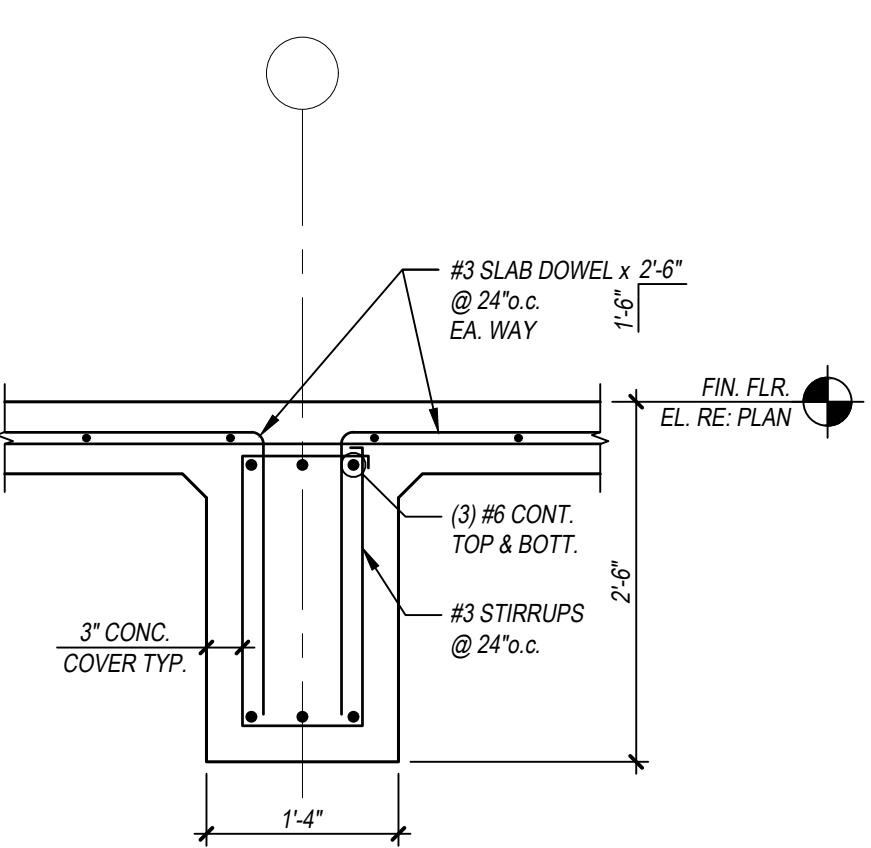
**SCALE:  $\frac{3}{4}'' = 1'$**



**06**  
**S4**

**SECTION**

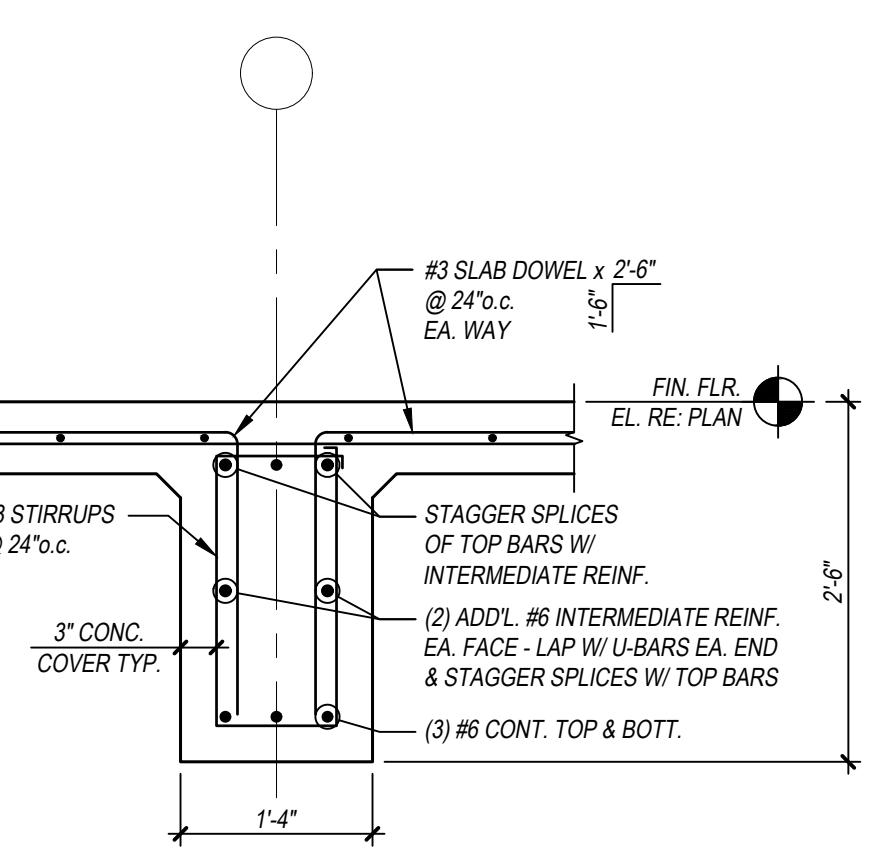
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**07**  
**S4**

**SECTION**

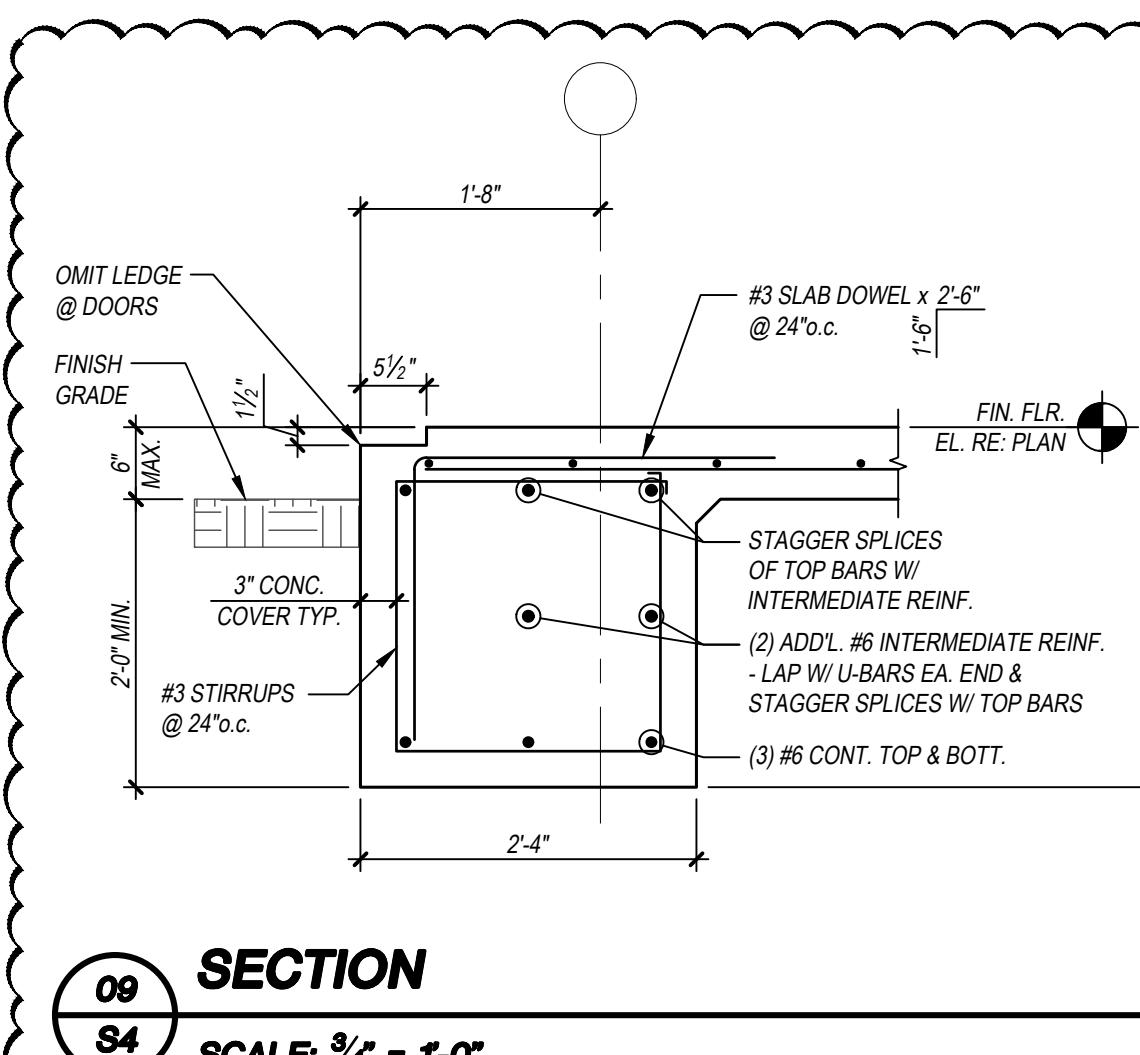
**SCALE:  $\frac{3}{4}'' = 1'-0''$**



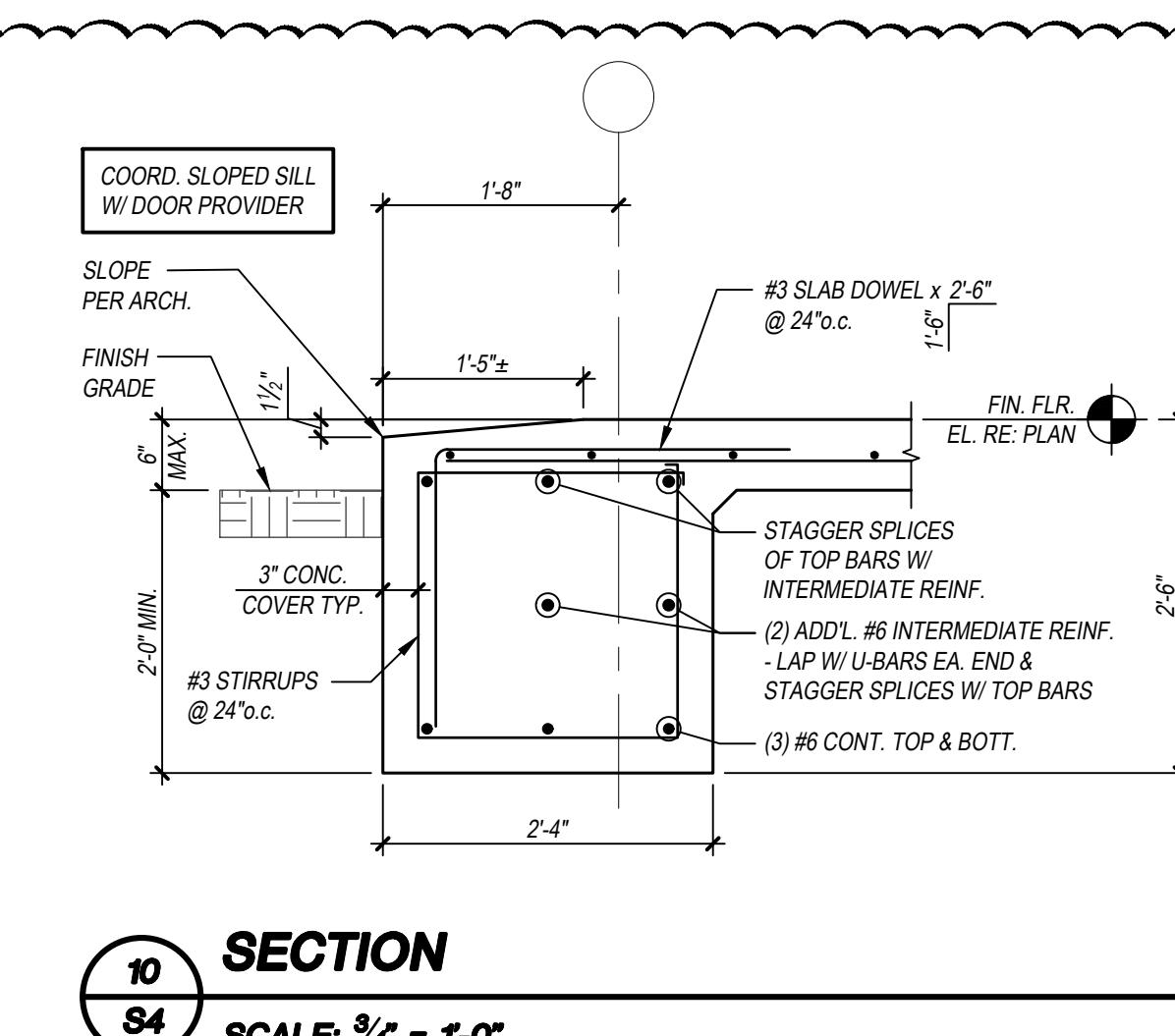
**08**  
**S4**

**SECTION**

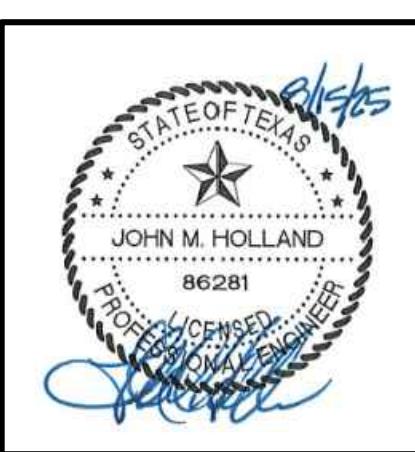
**SCALE:  $\frac{3}{4}'' = 1'-0''$**



A circular stamp with a wavy border. Inside, '09' is at the top and 'S4' is at the bottom. To the right is the word 'SECTION' in large, bold, sans-serif letters. Below that is a horizontal line. To the right of the line is the text 'SCALE:  $\frac{3}{4}$ " = 1'.



A circular stamp with the number '10' at the top and 'S4' at the bottom. To the right of the circle, the word 'SECTION' is written vertically, and below it, the word 'SCALE' is followed by a horizontal line and the fraction '3/4"'. The entire stamp is in black ink on a white background.



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

**S4**

# KERENS VOLUNTEER FIRE DEPARTMENT

305 Southeast 3rd Street  
Kerens, Texas 75144

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305 Southeast 3rd Street  
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# PAYNE & ASSOCIATES

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