SPECIFICATIONS:

- THESE NOTES AND SPECIFICATIONS APPLY TO ALL SHEETS BY THIS OFFICE FOR THIS STATED LOCATION
- THESE PLANS TAKE PRECEDENCE OVER ALL OTHER PLANS PERTAINING TO STRUCTURAL SPECIFICATIONS
- VERIFY ALL DIMENSIONS WITH LATEST ARCHITECTURAL PLANS AND CONTRACTOR PRIOR TO CONSTRUCTION JESIK ASSOCIATES, LLC. (JESIK) HAS BEEN RETAINED AS A SERVICE PROVIDER ONLY AND NOT AS A PROJECT MANAGER. ACCEPTANCE AND/OR USE OF THESE PLANS CONSTITUTES AGREEMENT WITH THE

SPECIFICATIONS GIVEN.

DESIGN CODES: ACI BUILDING CODE - 318-11

- AISC STEEL MANUAL 14TH EDITION
- INTERNATIONAL RESIDENTIAL CODE 2018 EDITION

<u>DESIGN LOADS:</u>

 ROOF: 30 PSF LL / 10 PSF DL GROUND SNOW

- 40 PSF LL / 20 PSF DL FLOORS AND STAIRS:
- WIND: IRC 2018 115 MPH EXP. C SEISMIC: IRC 2018 ZONE B

- THE SOIL REPORT IS A PART OF THIS DESIGN. JESIK REPORT #22-9178
- BUILDER HAS HEREBY BEEN INFORMED OF THE RISKS OF EXPANSIVE SOIL, WILL COMMUNICATE SAME TO OWNER, AND ACCEPTS THESE RISKS.
- FINISHED WALL TO BE MINIMUM 36" BELOW GRADE AND MINIMUM 6" ABOVE GRADE
- CONSTRUCT FIRST FLOOR JOIST AND SUB FLOOR PRIOR TO BACK FILLING, OR UTILIZE BRACING
- MINIMUM PAD THICKNESS IS 10", UNLESS NOTED OTHERWISE
- INSTALL ½" ANCHOR BOLTS ALONG TOP OF FOUNDATION WALL AS FOLLOWS: MAX. 48" O.C., MIN. 2
- CONCRETE ENCASED ELECTRODE: AN ELECTRODE ENCASED BY AT LEAST 2 INCHES OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF THE CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH IN DIAMETER, OR CONSISTING OF AT LEAST 20 FEET OF BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG. REINFORCING BARS SHALL BE PERMITTED TO BE BONDED TOGETHER BY THE USUAL STEEL (PER ARCH'S)
- FOOTER-TO WALL CONNECTION: INSTALL #4 BARS 24" O.C. HOOKED INTO FOOTER AND MIN. 24"
- PIER -TO-WALL CONNECTIONS: LENGTH OF PIER STEEL PROJECTION INTO WALL PER PIER DETAIL. DO
- BASEMENT PLAN
- UNUSUAL CONDITIONS OR CHANGES TO THE FOUNDATION COMPONENTS AS REQUIRED BY THE FIELD
- REFER TO GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS.
- MAINTAIN ALL EXCAVATIONS FREE OF WATER.

- TRUSSES SHALL BE CONFIGURED TO FOLLOW FINAL ROOF LINES, U.O.N.
- TRUSS MANUFACTURER SHALL SUPPLY ALL TRUSS CONNECTIONS USING PREFABRICATED STEEL CONNECTORS AS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY AND PERMANENT BRACING IN ADDITION TO ANY BRACING INDICATED ON THE PLANS.
- STAMPED BY A PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR AND/OR TRUSS MANUFACTURER. APPLIED ROOF SHEATHING AND OTHER ROOFING MATERIALS SHALL NOT BE ASSUMED TO PROVIDE SUFFICIENT BRACING FOR TRUSS CHORDS.
- SHOP FABRICATED WOOD TRUSSES SHALL MEET DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES BY THE TRUSS PLATE INSTITUTE. PROVIDE PERMANENT AND TEMPORARY BRACING
- COORDINATE ALL TRUSS DETAILS WITH ARCHITECTURAL PLANS.

CONCRETE AND REINFORCING (RESIDENTIAL):

- ALL CONCRETE SHALL BE MADE WITH STONE AGGREGATE, TYPE 2 CEMENT AND DEVELOP A MINIMUM OF 2250 PSI COMP STRENGTH IN 7 DAYS AND A MIN 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS
- ALL REINFORCING STEEL MUST MEET ASTM A615 GRADE 60. ALL WELDED WIRE MESH MUST MEET ASTM
- MINIMUM CONCRETE PROTECTION (COVERAGE) OF REINFORCEMENT:
- •• CONCRETE POURED AGAINST EARTH: 3"
- •• CONCRETE FORMED BUT EXPOSED TO EARTH OR WEATHER:
- ••• #5 BARS AND SMALLER: 1½"
- ••• LARGER THAN #5: 2"
- ••• CONCRETE IN SLABS: $1\frac{1}{2}$ • REBAR SPLICES MUST BE THE GREATER OF 36 BAR DIAMETERS OR 24" IN LENGTH
- WIRE MESH SPLICES MUST BE AT LEAST ONE COURSE AND A MINIMUM OF 6 INCHES
- REBARS TO BE CONTINUOUS AROUND CORNERS OR UTILIZE CORNER BARS, WHICH MEET CRITERIA
- ALL SPLICING MUST BE ACCOMPLISHED BY ATTACHING ADJACENT BARS TOGETHER WITH STEEL WIRE TIES ADDITIONAL REINFORCING AT OPENINGS (SEE WINDOW / OPENING DETAIL): (2) #5 BARS ALONG EACH SIDE
- OF THE OPENING, WHICH PROJECT A MIN. OF 24" PAST OPENING
- CONCRETE WORK MUST CONFORM TO ACI 301-89 (STRUCTURAL CONCRETE FOR BUILDINGS)
- ANY CONCRETE SLABS MUST BE ISOLATED FROM FOUNDATION WALLS, UTILITIES, AND COLUMNS
- CONCRETE SLABS MUST HAVE TOOLED CONTROL JOINTS 1/8" x 1" @ 10'-0" O.C. EACH WAY.

<u>FOUNDATION — GENERAL:</u>

- BACKFILL MUST BE PROPERLY COMPACTED
- WALL HEIGHT OFTEN VARIES CONSULT ARCHITECTURAL DRAWING
- ANCHORS PER BOARD, MIN. 12" FROM BOARD END, MIN. 7" EMBEDMENT
- TIE WIRES OR OTHER EFFECTIVE MEANS. ELECTRODE TO BE PLACED NEAR ELECTRICAL PANEL BOX LOCATION
- PENETRATION INTO WALL. TIE BARS TO VERTICAL REINFORCEMENT
- NOT BUNDLE BARS. CONSULT SOILS REPORT FOR ADDITIONAL INFORMATION.
- FOR LOCATIONS OF BRICK LEDGES, PATIO SLABS, GARAGE DOORS, WINDOWS AND DOORS, CONSULT
- CONDITIONS SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL.

PREFABRICATED WOOD TRUSSES:

- SPECIAL INSPECTIONS OF THE FABRICATION PROCESS OF PRE-FABRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH THE IBC.
- TRUSSES SHALL BE DESIGNED FOR ALL LOAD COMBINATIONS REQUIRED BY THE BUILDING CODE. IN NO CASE SHALL THE DEAD LOAD BE LESS THAN 15 PSF ON THE TOP CHORD AND 10 PSF ON THE BOTTOM

- ALL TEMPORARY AND PERMANENT BRACING FOR INDIVIDUAL TRUSS MEMBERS SHALL BE DESIGNED BY AND
- ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL MUST CONFORM TO ASTM A36 (U.O.N.)
- WIDE FLANGE SHAPES (W, WT): ASTM A992 (Fy=50KSI)
- OTHER ROLLED SHAPES (M, S, HP, C, L): ASTM A36 (Fy=35KSI)
- ALL STEEL PIPE COLUMNS MUST CONFORM TO ASTM A53 (GRADE B)
- ALL STEEL PIPE COLUMN SIZES REFER TO OUTSIDE DIAMETER
- FABRICATION AND ERECTION MUST CONFORM TO AISC CODE OF STANDARD PRACTICE MOST RECENT
- ullet Field connections to be made with -" diameter bolts which meet astm a307. ANCHOR BOLTS SHALL BE ASTM F1554, A36 UON. ANCHOR BOLTS SHALL BE SET WITH TEMPLATES WITH
- THE APPROPRIATE BOLT PROJECTION, 4" MIN. UON. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION.
- 3½" Ø STEEL (11 GAUGE) ADJUSTABLE PIPE COLUMNS MUST BE RATED AT 13 KIPS MIN.
- 3½" Ø STEEL (SCHEDULE 40) ADJUSTABLE PIPE COLUMNS MUST BE RATED AT 30 KIPS MIN.
- 3½" Ø STEEL (SCHEDULE 80) ADJUSTABLE PIPE COLUMNS MUST BE RATED AT 35 KIPS MIN. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH GOOD STANDARD OF
- PRACTICE AND IS THE RESPONSIBILITY OF THE CONTRACTOR. • PROPER FIT IN THE FIELD OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH GOOD STANDARD OF
- PRACTICE AND IS THE RESPONSIBILITY OF THE CONTRACTOR. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF ALL CONNECTIONS NOT
- FULLY DESIGNED ON THE CONTRACT DOCUMENTS. NON-SHRINK GROUT UNDER BASE PLATES SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE
- STRENGTH OF 5,000 PSI AT 28 DAYS. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STRUCTURAL WELDING
- CODE, AWSD1.1. THE MINIMUM WELD SIZE SHALL BE $\frac{3}{16}$ " FILLET U.O.N.
- FIELD WELDING SHALL NOT BE STARTED UNTIL JOINT ELEMENTS ARE BOLTED IN INTIMATE CONTACT AND/OR ADJUSTED TO DIMENSIONS INDICATED WITH ALLOWANCE FOR EXPECTED WELD SHRINKAGE. FIELD WELDS FOR STRUCTURAL STEEL SHALL BE MADE WITH LOW HYDROGEN ELECTRODES. WELD FILLER
- MATERIAL SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70KSI. BRACE BEAMS AT BEAM SUPPORTS WITH 2X4 BRACES, EACH SIDE OF BEAM, AT 45 DEGREE ANGLE FROM BOTTOM OF BEAM TO A FLOOR JOIST WITH FILLED WEB.

STRUCTURAL SHEET INDEX						
S0.1	GENERAL NOTES, SPECIFICATIONS, LEGENDS					
S1.1	FOUNDATION PLAN					
S1.2	FOUNDATION SECTION & DETAILS					

REVISIONS							
REV.	<u>DATE</u>	<u>INITIALS</u>	DESCRIPTION				
0	11-10-22	JAJ	INITIAL RELEASE				

			ST	ANDAF	RD ABBREVIATIONS				
	DESCRIPTION		DESCRIPTION		DESCRIPTION		DESCRIPTION		DESCRIPTION
ABV	ABOVE	COL	COLUMN	EW	EACH WAY	MECH	MECHANICAL	RS	ROUGH SAWN
ADDL	ADDITIONAL	CONC	CONCRETE	EXP	EXPANSION	MFR	MANUFACTURER	RSHNK	RING SHANK (NAIL)
ADJT	ADJACENT	CONN	CONNECTION	(E)	EXISTING	MIN	MINIMUM	REQ'S	REQUIREMENTS
ADJ	ADJUSTABLE	CONST	CONSTRUCTION	EXT	EXTERIOR	MISC	MISCELLANEOUS	SCHD	SCHEDULE
AFF	ABOVE FINISHED FLOOR	CTR(D)	CENTER(ED)	FB0	FURNISHED BY OTHERS	MTL	METAL	SEC	SECTION
AGG	AGGREGATE	DBL	DOUBLE	FDN	FOUNDATION	(N)	NEW	SEP	SEPARATE
ALT	ALTERNATE	DECO	DECORATIVE (DECORATION)	FFE	FINISHED FLOOR ELEVATION	NO.	NUMBER	SHTNG	SHEATHING
ALUM	ALUMINUM	DEMO	DEMOLITION	FLD	FIELD	NOM	NOMINAL	SIM	SIMILAR
ANC	ANCHOR(AGE)	DIA	DIAMETER	FLR	FLOOR	NTS	NOT TO SCALE	SL	SNOW LOAD
ARCH	ARCH(ITECTURAL)	DIAG	DIAGONAL	FTG	FOOTING	0/C	ON CENTER	SPECS	SPECIFICATIONS
BLDG	BUILDING	DIM	DIMENSION	GALV	GALVANIZED	ОН	OVERHEAD	SQ	SQUARE
BLK	BLOCK	DL	DEAD LOAD	GC	GENERAL CONTRACTOR	OHD	OVERHEAD DOOR	STD	STANDARD
BOF	BOTTOM OF FOOTING	DN	DOWN	GRD	GRADE	OWJ	OPEN WEB JOISTS	STL	STEEL
вот	ВОТТОМ	DR	DOOR	GYP	GYPSUM	OPNG	OPENING(S)	STRUCT	STRUCTURE(AL)
BOW	BOTTOM OF WALL	DS	DOWNSPOUT	HDR	HEADER	OPP	OPPOSITE	T&B	TOP & BOTTOM
BRG	BEARING	DTL	DETAIL	HORZ	HORIZONTAL	OSB	ORIENTED STRAND BOARD	TEMP	TEMPORARY
BTWN	BETWEEN	DWG	DRAWING	INSUL	INSULATION	PAF	POWDER ACCUATED FASTENER	TOF	TOP OF FOOTING
C.A.	CONSTRUCTION ADHESIVE	EA	EACH	INT	INTERIOR	P.T.	PRESSURE TREATED (LUMBER)	TOW	TOP OF WALL
CFS	COLD FORMED STEEL	ELEC	ELECTRIC(AL)	JST	JOIST	PLWD	PLYWOOD	TRS('S	TRUSS(ES)
CJ	CONTROL JOINT	ESEW	EVENLY SPACED EACH WAY	LL	LIVE LOAD	RE	REFERENCE	TYP	TYPICAL
CLG	CEILING	EQ	EQUAL	LTL	LINTEL	REIN	REINFORCE(D), REINFORCING	UON	UNLESS OTHERWISE NOTE
CLR	CLEAR(ANCE)	EQUIV	EQUIVALENT	MAX	MAXIMUM	REQ'D	REQUIRED	VERT	VERTICAL
СМИ	CONCRETE MASONRY UNIT	EQUIP	EQUIPMENT					VIF	VERIFY IN FIELD

LOT 60, ST. CHARLES ESTATES PUEBLO COUNTY, COLORADO

STRUCTURAL LUMBER:

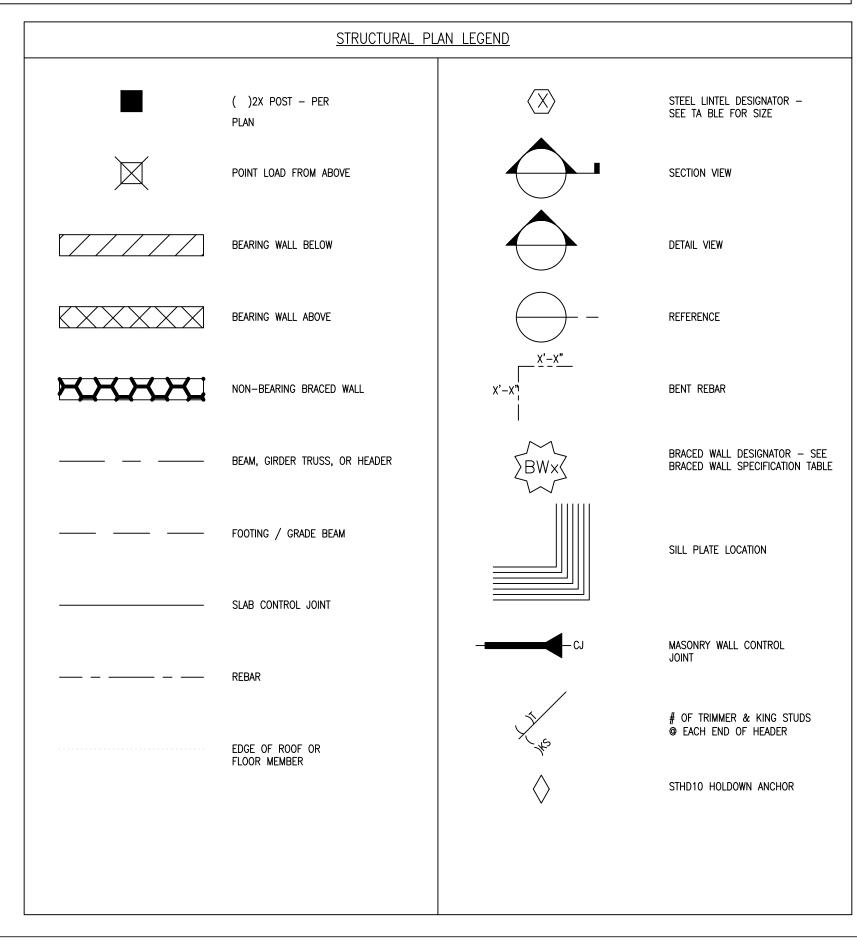
UNLESS OTHERWISE SPECIFIED

- ALL LUMBER AND SHEATHING COMPONENTS MUST MEET THE DESIGN CODE SPECIFICATIONS UNLESS
- ALL VERTICAL LOAD BEARING LUMBER MUST BE OF STUD GRADE OR GREATER UNLESS OTHERWISE
- ALL DIMENSIONAL LUMBER HEADERS AND BEAMS MUST BE H.F. #2 OR D.F. #2 OR BETTER UNLESS ALL ROOF SHEATHING MUST BE APA RATED 32/16 EXP 1 (MIN), MUST NOT SPAN GREATER THAN 24", AND
- MUST BE NAILED WITH 8d @ 8" FIELD/4" SEAMS OR NARROW CROWN STAPLES @ 6" FIELD/3" SEAMS UNLESS OTHERWISE SPECIFIED • ALL FLOOR SHEATHING MUST BE APA RATED 40/20 EXP 1 T&G (MIN), MUST NOT SPAN GREATER THAN 19.2", MUST BE GLUED TO FLOOR JOISTS, AND MUST BE NAILED WITH 8d RSHNK @ 6" FIELD/4" SEAMS
- UNLESS OTHERWISE SPECIFIED • ALL WALL SHEATHING MUST BE APA RATED 24/0 EXP 1 (MIN), MUST NOT SPAN GREATER THAN 24", AND MUST BE NAILED WITH 8d @ 8" FIELD/4" SEAMS OR NARROW CROWN STAPLES @ 6" FIELD/3" SEAMS
- THIS STRUCTURE MEETS THE REQUIREMENTS OF IRC 2012 R602 FOR CONTINUOUS SHEATHING.
- ALL WALL SHEATHING MUST OVERLAP WALL PLATE TO FLOOR RIM BY A MINIMUM OF 3" OR STRAPS @ 48" O/C UTILIZED FOR UPLIFT
- ALL FLOOR JOISTS SHALL BE OF TYPE SPECIFIED IN THE PLAN VIEW(S) AND MUST BE BLOCKED AT ALL BEARING WALLS/BEAMS
- ALL BEARING AND EXTERIOR WALLS MUST BE CONSTRUCTED WITH DOUBLE TOP PLATES

ALL WOOD PRODUCTS IN CONTACT WITH CONCRETE AND/OR EARTH MUST BE TREATED WITH A

- PRESERVATIVE OR BE OF A WOOD SPECIES OF NATURAL RESISTANCE TO DECAY
- GLU-LAM BEAMS SHALL BE 24F-V4 DF/DF (Fb=2400, Fv=265, E=1.8 X 1,000,000 PSI (U.O.N.) • EXTERIOR-RATED GLULAM BEAMS SHALL BE PORT ORFORD CEDAR (22F-V14 (Fb=2200, Fv=265, E=1.7 X 1,000,000 PSI (U.O.N.) & SHALL BE NATURALLY RESISTANT TO DECAY W/ WEATHER RESISTANT ADHESIVE
- ALLOWABLE DESIGN STRESSES FOR LAMINATED VENEERED LUMBER (LVL) BEAMS: Fb=2600 PSI, Fv+285 PSI, E=1.9 X 1,000,000 PSI.
- ALL WOOD CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE UNLESS INDICATED OTHERWISE AND SHALL MEET THE MINIMUM NAILING REQUIREMENTS OF THE BUILDING CODE, SUBSTITUTIONS MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO USE. INSTALL ALL CONNECTION HARDWARE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.









 \sim

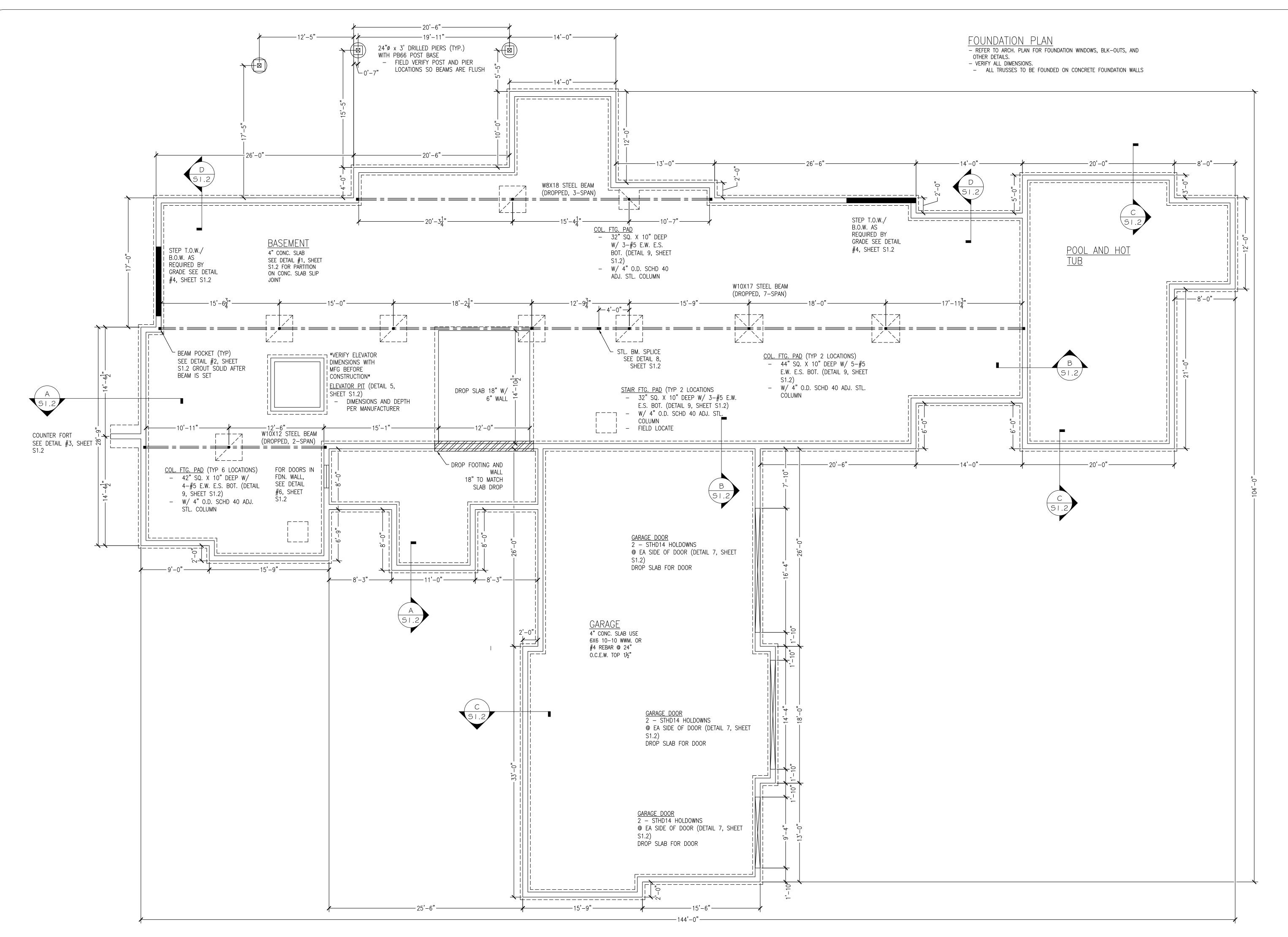
OND

S



Drafted By: 22-9178 Job No.: REV 0 Rev No.: NTS Scale:

Sheet No.:



800 W. 8th Street
Pueblo, Colorado 81003
(719) 582-5588

FOUNDATION PLAN FOR:
PARCEL NO. 25-000-03-06



Drafted By: JAJ

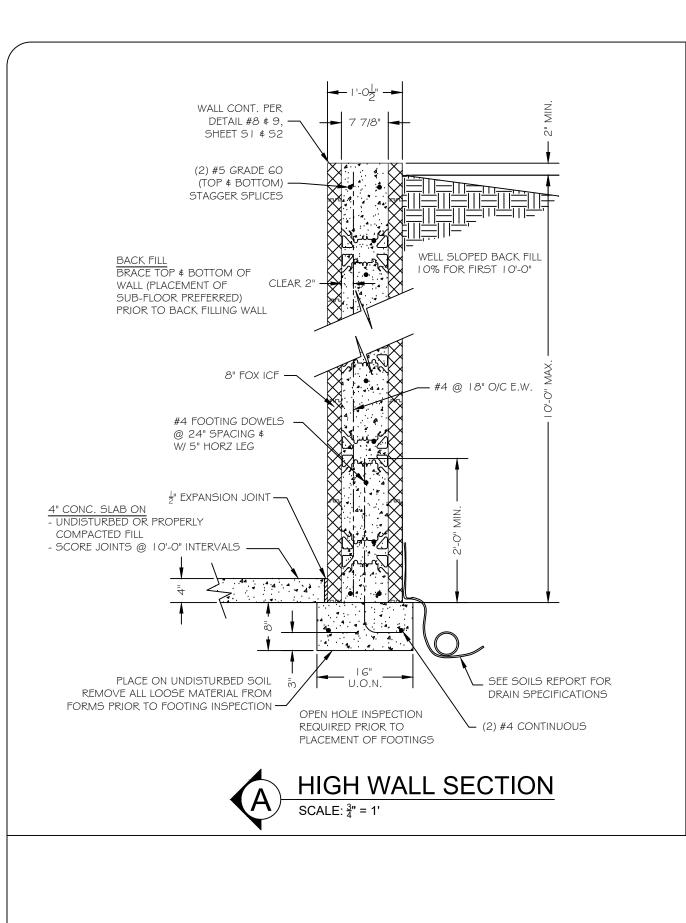
Date: 11/10/22

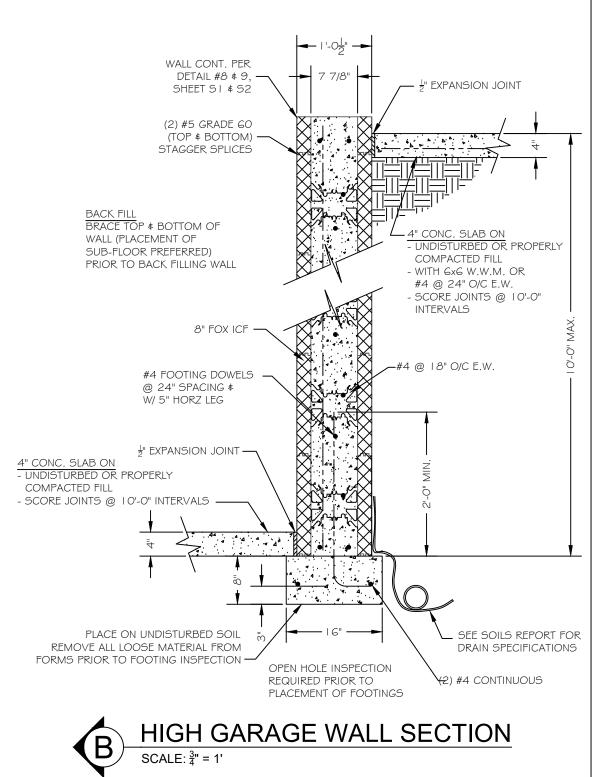
Job No.: 22-9178

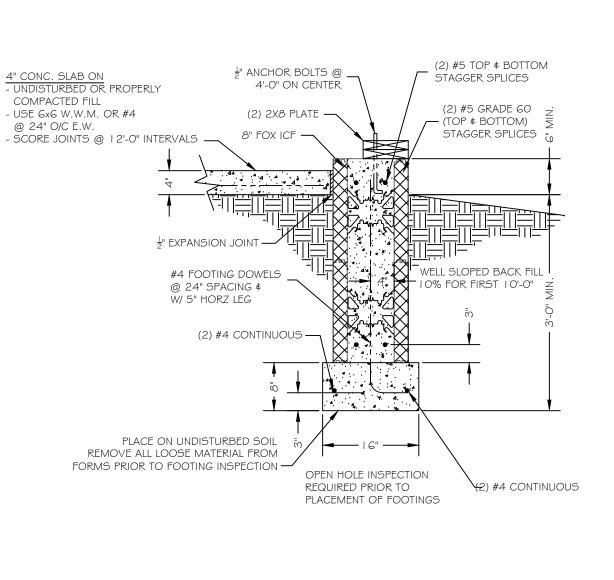
Rev No.: REV 0
Scale: 3/16" = 1'

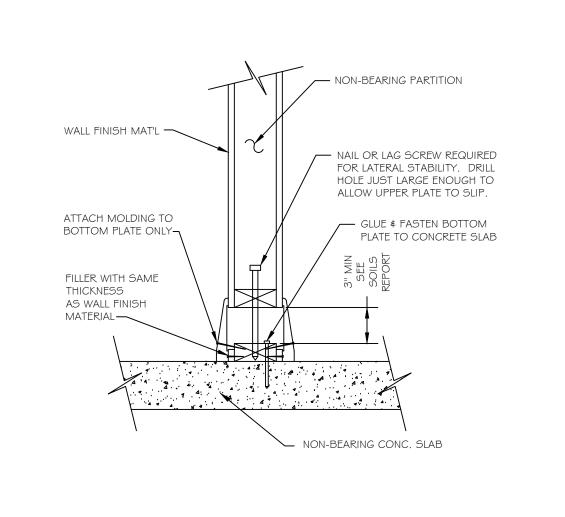
Sheet No.:

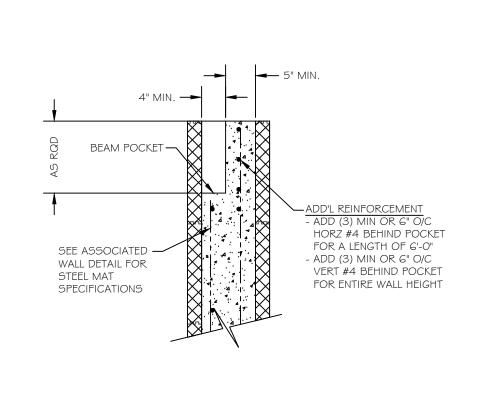
S1.1











LOW GARAGE WALL SECTION

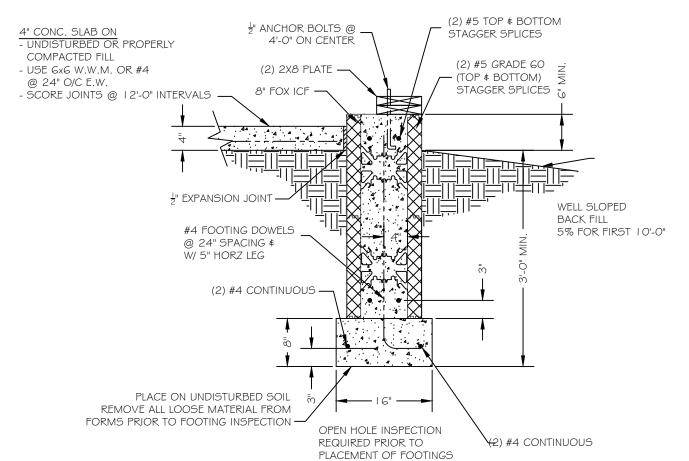
SCALE: 3/4" = 1'

DETAIL 1: SLIP JOINT PARTITION

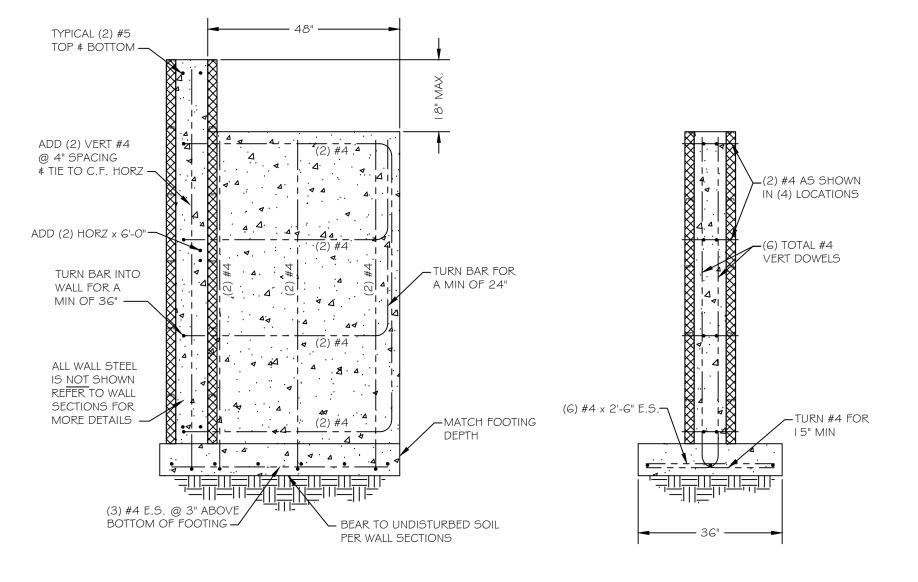
SCALE: 15" = 1'

DETAIL 2: BEAM POCKET DETAIL

SCALE: 3/4" = 1'

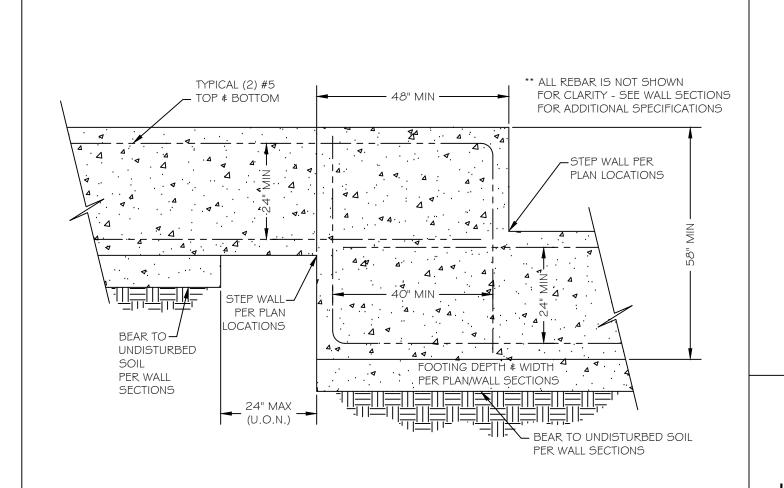




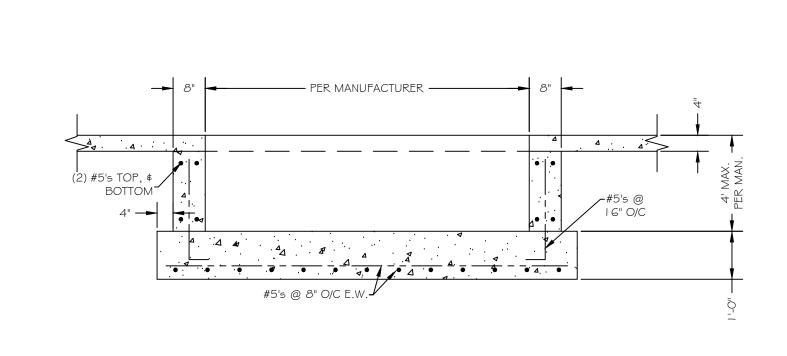


DETAIL 3: COUNTERFORT SPECIFICATIONS

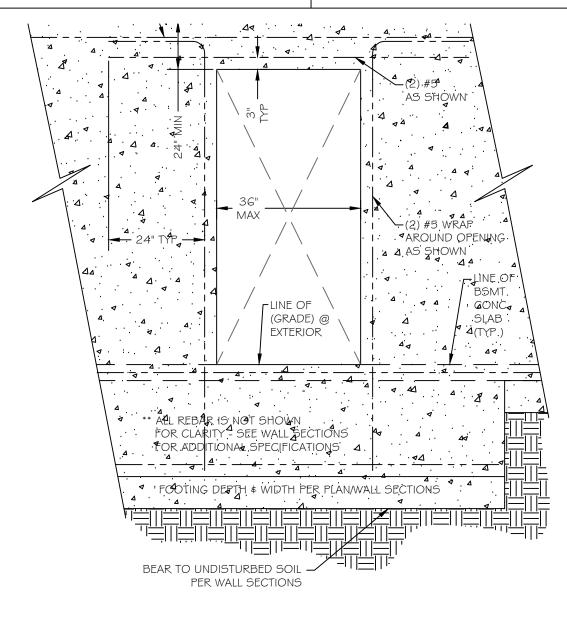
SCALE: \$\frac{1}{2} = 1'\$



DETAIL 4: FOUNDATION STEP DOWN

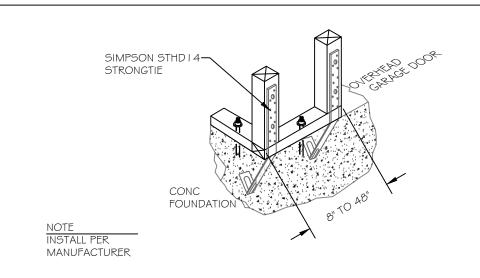


DETAIL 5: ELEVATOR PIT SCALE: ½" = 1'

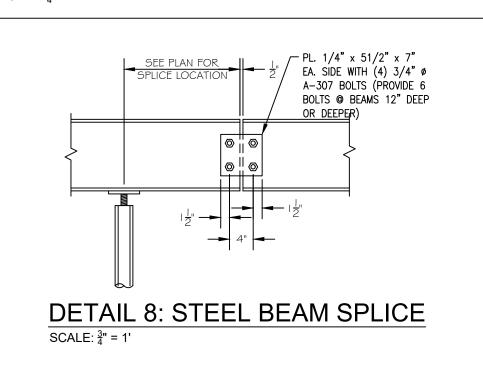


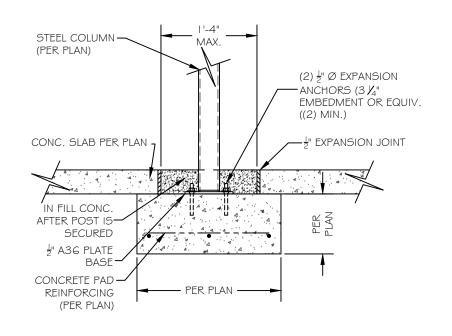
DETAIL 6: DOOR OPENING IN FOUNDATION

SCALE: ½" = 1'



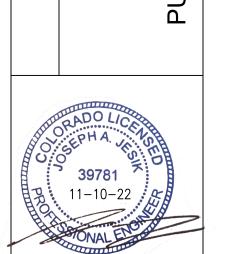
DETAIL 7: SLAB WITH TURN DOWN EDGE SCALE: 3" = 1"





DETAIL 9: COLUMN/PAD DETAIL

SCALE: 3/4" = 1'



UNDERHILL

(719)

Drafted By:	JAJ
Date:	11/10/22
Job No.:	22-9178
Rev No.:	REV 0
Scale:	NTS

Sheet No.:
S1.2