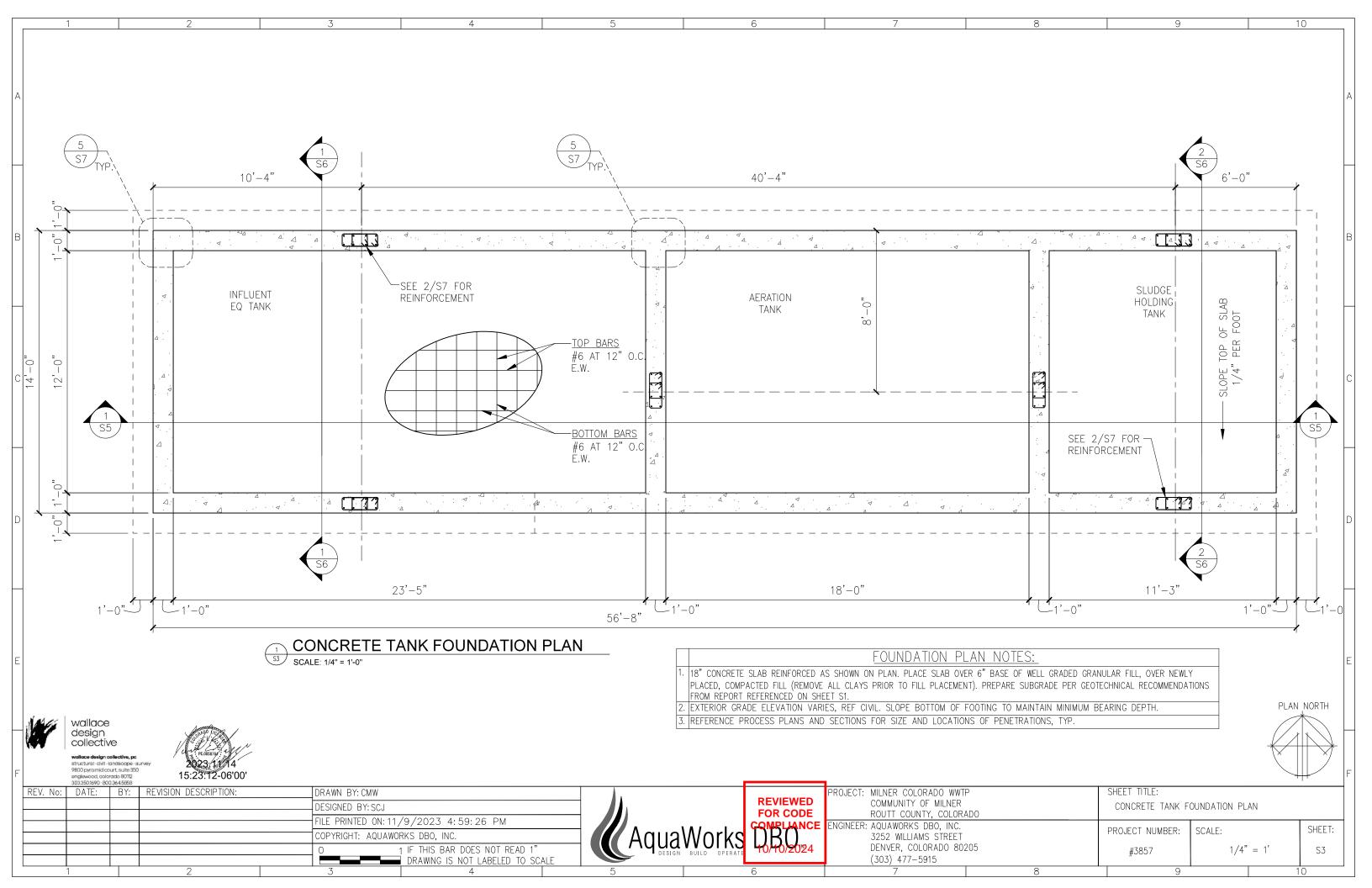
		1	2		3		4		5		6		7		3	8		9		10
			DESIGN	n parame	TFRS					L NOTES										
			DEGIOI				GENERAL		GLNLNA	LINUILS			CO	NCRETE						
A	1. DE	ESIGN CODES A	ND STANDARDS				1 STRUCTURAL F	FLEMENTS ARE	NON-SELE SUPPO	RTING AND REQUIRE	INTERACTION WITH	OTHER			RETE AND INTERI					
		UILDING CODE: ISK CATEGORY				IBC 2018	ELEMENTS FOR BRACED BY TH	R STABILITY ANI HE CONTRACTOF	D RESISTANCE TO R UNTIL PERMANE	LATERAL FORCES. NT BRACING, FLOOR	NALLS SHALL BE TEN AND ROOF SLABS, A	1PORARILY AND/OR	45 AL	00 PSI. PROPO L CONCRETE E	MANENTLY EXPO ORTIONED TO HA EXPOSED TO THE	AVE A MAXIMUN E EXTERIOR SHA	1 WATER/CEMEN ALL BE AIR EN	NT RATIO OF C TRAINED WITH).42. SLUMP = MINIMUM TOTA	3" – 5". L AIR
	DE	ESIGN LOADS:	AND STANDARDS — MINIMUM DESIGN	N LOADS FOR BUILDII	NGS AND OTHER S	STRUCTURES	2. THE CONTRAC METHOD OF C RESPONSIBLE	T DOCUMENTS F ONSTRUCTION, U FOR THE MEAN	REPRESENT THE F UNLESS NOTED C IS, METHODS, TECH	INISHED STRUCTURE THERWISE. THE CC	ELEMENTS HAVE BEE AND DO NOT INDICA NTRACTOR IS SOLELY 5, AND OPERATION C NTAL THERETO	TE THE	AC TH 2. PO	:1 350-06 TAB Awing, severe Prtland cemen	(+/- 1%) BY N BLE 4.2.1, TOTAL E EXPOSURE, FC NT SHALL CONF	_ AIR CONTENT DR SMALLER AG ORM TO ASTM	FOR CONCRETE GREGATE SIZES C-150, TYPE II	E EXPOSED TO S. I	CYCLES OF FI	REEZING AND
В	A(A(S	CI 350-06 - (TRUCTURES CI 350.1-10 -	CODE REQUIREMEN	QUIREMENTS FOR STR TS FOR ENVIRONMEN OR TIGHTNESS TESTIN ENT STRUCTURES	TAL ENGINEERING	CONCRETE	3. THE STRUCTUF EQUIPMENT AN THE STRUCTUF CALCULATIONS THE PROJECT	RE HAS BEEN D ND SCAFFOLDING RE SHALL BE V S SIGNED AND S IS LOCATED TO	DESIGNED FOR THE G, OR STORAGE O ÆRIFIED BY THE C SEALED BY A PRO D VERIFY THE ADE	INDICATED LOADS F MATERIALS THAT ONTRACTOR. THE FESSIONAL ENGINEE QUACY OF THE STR	ONLY. USE OF HEAV TRANSFER EXCESSIVE CONTRACTOR SHALL I A LICENSED IN THE S JCTURE FOR ALL AP CONSTRUCTION DOO	ELOADS TO PROVIDE STATE WHERE PLIED	AG 4. MA 5. RE	GREGATE SIZE ATERIALS OR A INFORCING STE A. DEFORMED E	R NORMAL WEIGH SHALL BE 3/4 ADMIXTURES SHA EEL SHALL MEET BARS ARE INDICATED E	". LL NOT CONTAI THE FOLLOWIN	IN ANY CALCIU IG	M CHLORIDE	ASTM SPECIFIC A615, GRADE	CATION E 60
	A. LI		FORM/CONCENTRA	.TED)		,	CONSTRUCTION	ACTIVITY.		ENGINEER-OF-RECO			LO(REI	CATION OF MA INFORCING LAP	IN REINFORCEME P SPLICE SCHEDI	ENT STEEL. REIN ULE (6/S7)	NFORCING BARS	S SHALL BE SF	PLICED AS NOT	ED IN THE
	C(B. SH 1. 2.	HIPPING CONTÀI .) CONTAINER 1 .) CONTAINER 2	IOT AT CONTAINER NER TOTAL WEIGH "DRY" 28,954 LE : "DRY" 6,984 LB	RS) IT (PROVIDED BY MAI BS, "WET" 43,975 LE SS, "WET" 10,781 LBS	NUFACTURER) 3S	20 PSF / 300 LB 60 PSF	CONJUNCTION OTHER DISCIPL DOCUMENTS IN 5. ALL WELDS SH	WITH CIVIL, PRU LINES. THE CON NTO SHOP DRAV	OCESS, MECHANIC. ITRACTOR SHALL (WINGS AND WORK. RMED BY QUALIFIE	AL, ELECTRICAL, PLU COORDINATE ALL RE	ARE INTENDED TO B IMBING AND DRAWING QUIREMENTS OF THE DRDANCE WITH AMER	GS FROM CONTRACT ICAN	DE FOI CO TEN	TAILING PRACT R MIXING AND NCRETING PRO MPERATURES IS	50-06 FOR CON FICES AND FABRI PLACING CONCF OCEDURES. MINIM S 7 DAYS LED IN HARDENE	ICATION, AND A RETE. REFER TO IUM PROTECTION	ACI 301 LATEST) ACI 306R-10 N PERIOD FOR	EDITION FOR FOR REQUIRED CONCRETE PLA	STANDARD PR D COLD WEATH ACED DURING F	ACTICES IER FREEZING
С	A. GF B. FL C. SM D. SM	OOF SNOW LOA ROUND SNOW L LAT ROOF SNOV NOW EXPOSURE NOW LOAD IMPO HERMAL FACTOF	OAD, Pg / LOAD, Pf FACTOR, Ce DRTANCE FACTOR,	I		77 PSF 84.7 PSF 1.0 1.1 1.0	6. THE SIZE AND MECHANICAL, PENETRATIONS ENGINEER-OF- THE STRUCTUF	LOCATION OF ELECTRICAL, AN S SHALL BE SUE -RECORD. REFE RAL DRAWINGS.	EQUIPMENT PADS ND PLUMBING WOR BJECT TO APPROV RENCE PROCESS [K SHALL BE VERIFIE (AL BY THE ARCHITE DRAWINGS FOR OPE)	IING LOCATIONS NOT	ICTURE FOR TOR. SHOWN ON	DR. WIT INS API RE(AWINGS. CARE TH EXISTING RE STALLED IN AC PLICABLE ESR QUESTS FOR P	SHALL BE TAKE EINFORCING. HC CORDANCE WITH REPORT. REFE PRODUCTS OTHEF	EN IN PLACING DLES SHALL BE I THE MANUFAC RENCE DETAILS R THAN THOSE	POST-INSTALL DRILLED, DRY TURER'S PUBLI FOR ANCHOR SPECIFIED ON	ED ANCHORS AND CLEANED SHED WRITTEN SIZE AND EME THE CONTRAC	TO AVOID CONF AND ANCHORS INSTRUCTIONS BEDMENT. SUE T DRAWINGS SI	FLICTS S AND ISTITUTION HALL BE
	4. WI A. UL N(B. WI C. IN	IND DESIGN DA LTIMATE DESIGN OMINAL DESIGN IND EXPOSURE ITERNAL PRESSI	FA (CONTAINER DE WIND SPEED (3 WIND SPEED (3 S CATEGORY JRE COEFFICIENT,	ESIGN BY MANUFACTU SECOND GUST), Vult SECOND GUST), Vasd GCpi	ť	115 MPH 89.1 MPH C +/- 0.18 3 FT	DOCUMENTS O COORDINATE II 8. ASSUME EQUA 9. CONTRACTOR	R USE ANY DIN N-PLACE DIMEN L SPACING IF N SHALL COORDIN	MENSIONS TAKEN F NSIONS BASED ON NOT INDICATED IN NATE ALL DIMENSIO	FROM ELECTRONIC D TOLERANCES OF TH CONTRACT DOCUME	DO NOT SCALE CONT RAWING FILES. CON E RESPECTIVE TRADI NTS. KOUTS, RECESSES, E	TRACTOR SHALL ES.	ARI PRI SH. EQI DES	E SIGNED AND EPARATION AN ALL DEMONSTR UIVALENT PERF SIGN PROCEDU BSTITUTIONS F	HE CONTRACTOR SEALED BY THI ID LICENSED IN RATE THAT THE FORMANCE VALU IRE AND/OR STA TOR POST-INSTA	E QUALIFIED PF THE STATE WHI SUBSTITUTED F JES (MINIMUM) (ANDARD(S) AS ILLED ANCHORS	ROFESSIONAL EI ERE THE PROJE PRODUCT IS CA OF THE SPECIF REQUIRED BY IN CONCRETE	NGINEER RESPO ECT IS LOCATE PABLE OF ACH IED PRODUCT THE BUILDING (ARE:	ONSIBLE FOR T D. THE CALCU HEVING THE PE USING THE API	HEIR JLATIONS ERTINENT PROPRIATE
		IDTH OF END Z				J FI	FOUNDATIONS								T-RE 500-V3 E T-HY 200 (A OR					
D	A. SE B. M/ C. M/ D. SI	EISMIC IMPORTA APPED SPECTR/ APPED SPECTR/ TE CLASS	AL RESPONSE ACC	CELERATION PARAMET	ER, S1	1.25 30.0% 5.5% C	1. FOUNDATION E RECOMMENDAT NORTHWEST C	TIONS PROVIDED OLORADO CONS) IN THE GEOTECH SULTANTS, INC., D/	ATION NOTES ARE E NICAL REPORT NUM ATED: JANUARY 19,	3ER 22–12814 BY:	_		C. HILTI KWID. SIMPSONE. SIMPSON	IN 200 (A OK IK BOLT TZ2 EXI STRONG-TIE SE STRONG-TIE AT STRONG-TIE ST	PANSION ANCHO ET-XP EPOXY A T-XP ADHESIVE	OR (ICC-ES ES ADHESIVE (ICC- (ICC-ES ESR-	R-4266) ES ESR-2508 -263)	, ,	
	F. DE G. SE H. ST		_ RESPONSE ACCE CATEGORY TEM	ELERATION PARAMETE		0.260 0.055 B BEARING WALL	3. CONTRACTOR REPORT AND THEREIN. THE AND FILL FOR	AND TESTING L BECOME THOR CONTRACTOR S ESTIMATING AN	ABORATORY REPR OUGHLY FAMILIAR SHALL BE RESPON ND CONSTRUCTION	ESENTATIVE SHALL WITH SITE AND SUE SIBLE FOR DETERMII	READ THE GEOTECHN GRADE INFORMATION IING EXACT QUANTITI	ICAL GIVEN ES OF CUT	CO	UNDATION SLA NSTRUCTION J	B, WALLS, AND OINTS. IF CONTR REQUIRED COLD	LID SHALL BE RACTOR PLANS	PLACED IN A S MULTIPLE POUF	、 SINGLE POUR (EACH) WITHOU	ī N
) RESPONSE M	C FORCE-RESISTIN	DR, R		SYSTEM NARY REINFORCED CONCRETE SHEAR WALLS 4.0	PROJECT IS LO CONFORMANCE ABOVE, AND A ARCHITECT AN	OCATED AND W E OF THE FOUN ALL OTHER CON ID ENGINEER-O	ORKING FOR THE IDATION BEARING S NTRACT DOCUMENT IF-RECORD OF AN	TESTING LABORATOF STRATA WITH THE F 'S. TESTING LABORA	IN THE STATE WHER Y, SHALL DETERMINE DUNDATION DESIGN (TORY SHALL NOTIFY N ACCORDANCE WITH	RITERIA CONTRACTOR,								
E) SEISMIC RESF) DESIGN BASE NALYSIS PROCE		T (ASD), Cs		0.057 0.057W EQUIVALENT LATERAL FORCE	5 THE SUBGRAD 6 USE ONLY STE	E SHALL BE PF RUCTURAL FILL	MATERIAL IDENTIF		CHNICAL REPORT INICAL REPORT FOR ID 1 FOOT BEYOND ⁻									
		wallace design collective					7 PER GEOTECHI NATURAL GRA 8 FOUNDATION V BEFORE BACKI	VELS OR SANDS WALLS SHALL H	S PRIOR TO STRU IAVE ADEQUATE TE AGAINST THEM. 1	CTURAL FILL OR CO EMPORARY BRACING	BELOW FOUNDATION NCRETE PLACEMENT INSTALLED BY THE (SHALL NOT BE REM	CONTRACTOR							S ¹	N N N N N N N N N N N N N N N N N N N
F		wallace design colle structural - civil - lane 9800 pyramid court englewood, colorad 303,350,1690 - 800,36	dscape - survey , suite 350 o 80112				9. AVOID DAMAGI	E TO UNDERGRO	OUND UTILITIES IN		IMITED TO, WATER COSS OR ADJOIN SITE								2023. 15:22:4	11.14 5-06'00'
F	REV. No:	DATE: BY		CRIPTION:	DRAWN BY									ORADO WWTP			SHEET TITLE	:		
					DESIGNED						REVIEWED FOR CODE			' OF MILNER INTY, COLORAD	00		GENERAL S	STRUCTURAL N	OTES	
						, ,	23 12:15:36 PM		- / / ^ .			ENIONIEED 10	UAWORK	S DBO, INC.			PROJECT NU	MBER: SCAL	E:	SHEET:
						E: AQUAWORKS DBO, 1 IF THIS	, INC. BAR DOES NOT REA	AD 1"		Juavvork		32 DE		AMS STREET OLORADO 8020)5		#3857		N.T.S.	S1
							IG IS NOT LABELED			DESIGN BUILD OPE	RATE 10/10/2024		03) 477-		c	0	#3037			

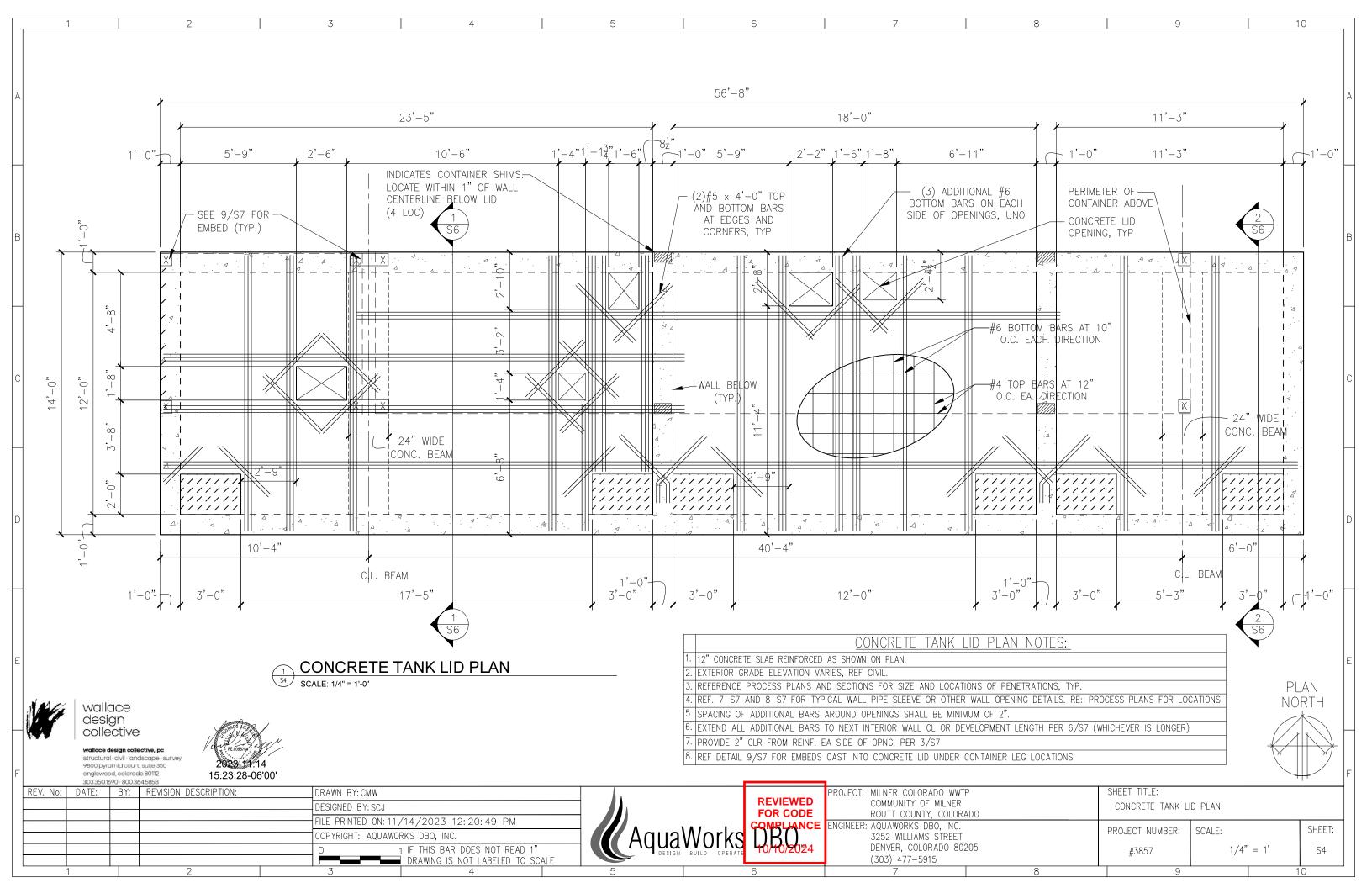


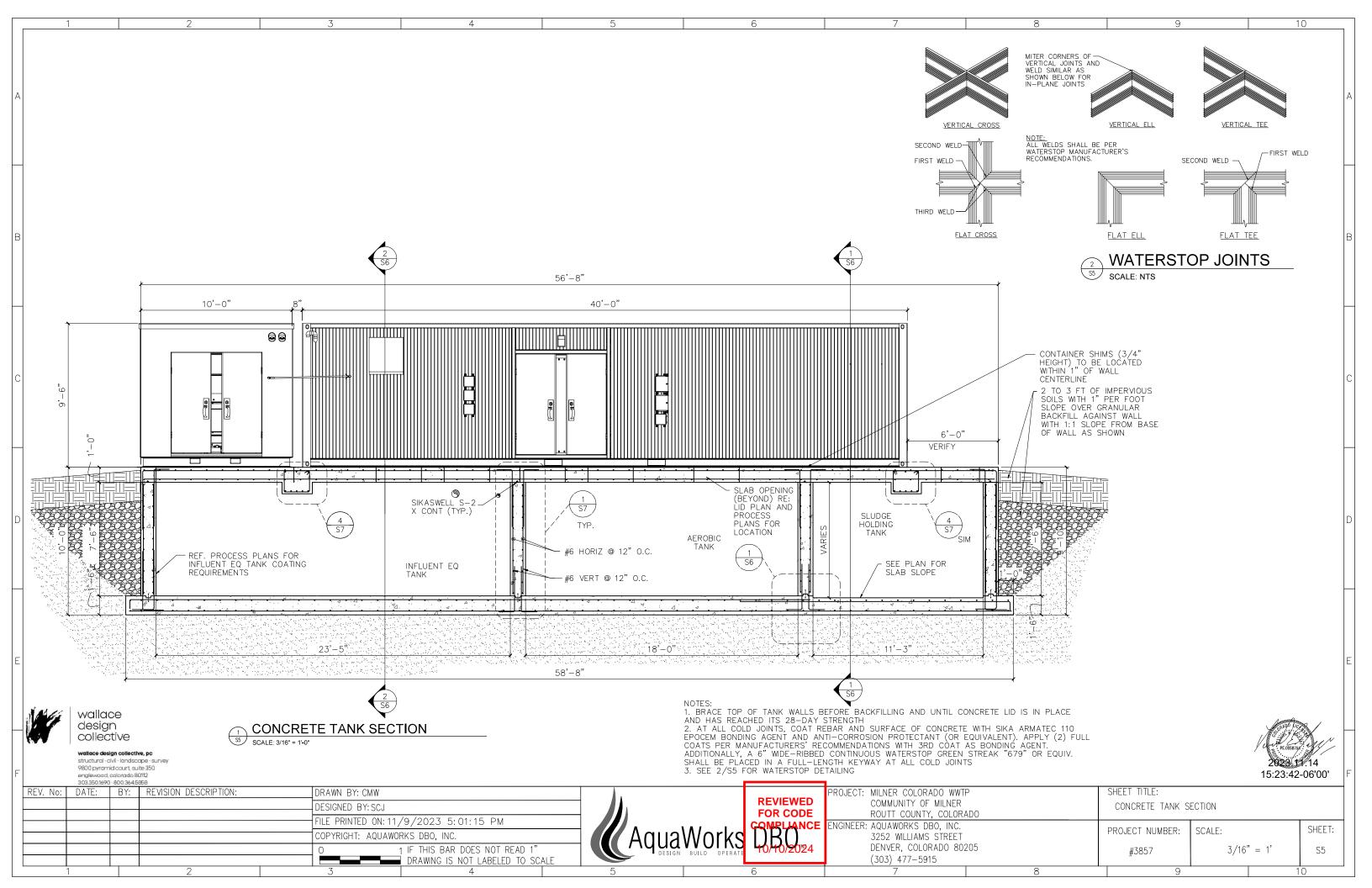
	SHEET TITLE: GENERAL STRUCTU	SHEET TITLE: GENERAL STRUCTURAL NOTES					
	PROJECT NUMBER:	SCALE:		SHEET:			
	#3857	N.1	ſ.S.	S1			
8	9		1	0			

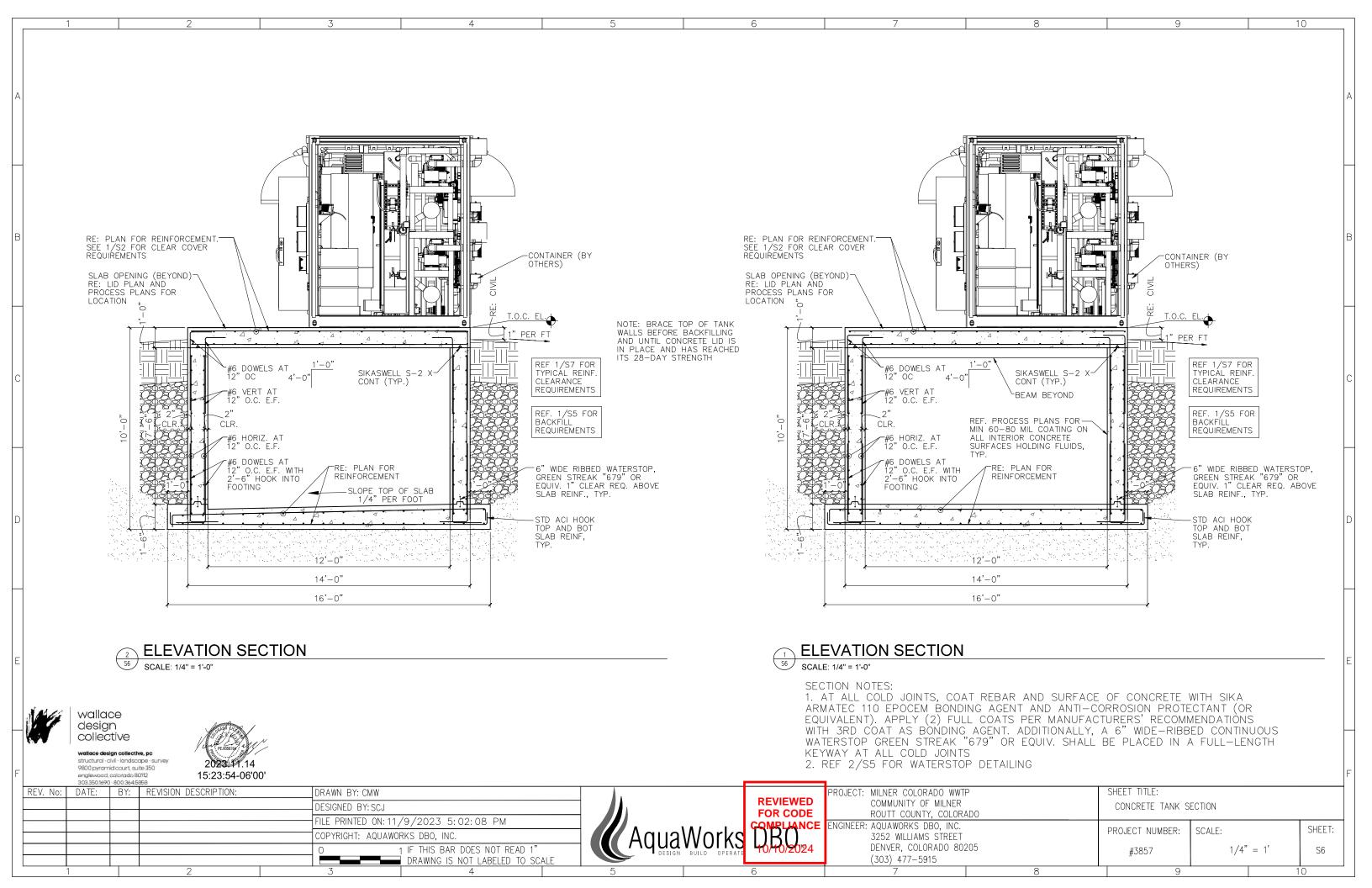
1 2 3 4 5 6	7	8		9 1	0
				- <u> </u>	-
	A	BBREVIATIONS			
STRUCTURAL OBSERVATION REQUIREMENTS (IBC 2018 SECTION 1704.6)					
	A.F.F. A.O.R.	ABOVE FINISHED FLOOR ARCHITECT OF RECORD	LLV LONG.	LONG LEG VERTICAL LONGITUDINAL	
1. A REPRESENTATIVE OF THE ENGINEER OF RECORD WILL PERFORM THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT	A.R.	ANCHOR RODS	LSH	LONG SIDE HORIZONTAL	
CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL	AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LSL LSV	LONG SLOT LONG SIDE VERTICAL	
OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTION REQUIRED OF THE BUILDING OFFICIAL OR THE SPECIAL INSPECTOR.	ARCH.	ARCHITECTURAL	MAX.	MAXIMUM	
	B.L.	BLOCK LINTEL		MECHANICAL	
2. A PRE-CONSTRUCTION MEETING SHALL BE HELD AND ATTENDED BY AQUAWORKS DBO, STRUCTURAL ENGINEER OF RECORD, GENERAL CONTRACTOR, SUBCONTRACTORS, AND SPECIAL INSPECTORS.	B.O.D. B.O.S.	BOTTOM OF DECK BOTTOM OF STEEL	MEP MFR.	MECHANICAL/ELECTRICAL/PLU MANUFACTURER	JMBING
3. THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 48 HOURS PRIOR TO COMPLETING	B.P.	BASE PLATE	MIN.	MINIMUM	
CONSTRUCTION OPERATIONS THAT REQUIRE STRUCTURAL OBSERVATION (BY CALLING (303) 350–1690 TO SCHEDULE A SITE VISIT.)	BAL. BLDG.	BALANCE BUILDING	MISC. MTL.	MISCELLANEOUS METAL	
	BRG.	BEARING	N.I.C.	NOT IN CONTRACT	
B 4. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER:	C.J. C.L.	CONTRACTION JOINT CENTER LINE		NEAR SIDE	
A. AFTER INSTALLATION OF CONCRETE WALL DOWELS AND BEFORE FOUNDATION CONCRETE PLACEMENT.	CFMF	COLD FORMED METAL FRAMING	N.T.S. 0.C.	NOT TO SCALE ON CENTER	
5. AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT. THE STRUCTURAL OBSERVER SHALL	CLR.	CLEAR	0.D.	OUTSIDE DIAMETER	
SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND	CMU COL.	CONCRETE MASONRY UNIT COLUMN	0.F. 0.H.	OPPOSITE FACE OPPOSITE HAND	
IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.	CONC.	CONCRETE	OPP.	OPPOSITE	
3"x DIA.	CONST. CONT.	CONSTRUCTION CONTINUOUS	P.A.F. PCF	POWER/POWDER ACTUATED F. POUNDS PER CUBIC FOOT	ASTENER
SCHEDULE 40 (MIN.)	D.B.A.	DEFORMED BAR ANCHOR	PEMB	PRE-ENGINEERED METAL BUIL	DING
RE: PLAN FOR PIPE OR CONDUIT	D.B.E. DIA.	DECK BEARING ELEVATION DIAMETER	PL	PLATE	
	DIA. DTL.	DETAIL	PLF PLUMB.	POUNDS PER LINEAR FOOT PLUMBING	
	DWG.	DRAWING	PSF	POUNDS PER SQUARE FOOT	
	E.F. E.J.	EACH FACE EXPANSION JOINT	PSI R	POUNDS PER SQUARE INCH RADIUS	
	E.O.D.	EDGE OF DECK	R.O.	ROUGH OPENING	
MIRIN MIRIN	E.O.R. E.O.S.	ENGINEER OF RECORD EDGE OF SLAB	RE: REINF.	REFER	
	E.W.	EACH WAY	REINF. REQD.	REINFORCING REQUIRED	
	EA.	EACH	RTU	ROOF TOP UNIT	
	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	S.D.S. S.S.	SELF-DRILLING SCREWS STAINLESS STEEL	
T' MAX	ELEC.	ELECTRICAL	SCHED.	SCHEDULE	
3" MAX 1 2	ELEV. EQ.	ELEVATION EQUAL	SIM. SP.	SIMILAR SPACE/SPACING	
1. CONDUIT/PIPE SHALL BE FABRICATED AND INSTALLED SUCH THAT	EXIST.	EXISTING	SPECS.	SPECIFICATIONS	
CUTTING, BENDING, OR DISPLACEMENT OF REINF. WILL NOT BE REQUIRED. 2. CONDUIT/PIPE SHALL NOT BE PLACED WITHIN 9" OF CONTAINER SUPPORT	F.F.E. F.S.	FINISHED FLOOR ELEVATION FAR SIDE	SSL	SHORT SLOT	
3. DO NOT STACK CONDUIT VERTICALLY IN SLAB.	F.V.	FIELD VERIFY	STD. STL.	STANDARD STEEL	
4. CONDUIT/PIPE SHALL BE SUPPORTED AND SECURED TO PREVENT DISPLACEMENT DURING PLACEMENT OF CONCRETE.	FDN.	FOUNDATION	T&B	TOP AND BOTTOM	
5. ALUMINUM CONDUIT/PIPE NOT PERMITTED.	FT. FTG.	FOOT/FEET FOOTING	T.O. T.O.C.	TOP OF TOP OF CONCRETE	
6. CONDUIT/PIPE SHALL BE MIN. 3/4" CLR. TO REINF.	G.B.	grade beam	Т.О.М.	TOP OF MASONRY	
TYPICAL EMBEDDED CONDUIT DETAIL	G.C. GA.	GENERAL CONTRACTOR GAGE	T.O.P.	TOP OF PIER TOP OF STEEL	
	GALV.	GALVANIZED	T.O.S. T.O.W.	TOP OF WALL	
SCALE: NTS	H.S.A. HORIZ.	HEADED STUD ANCHOR HORIZONTAL	TRANS.	TRANSVERSE	
	I.F.	INSIDE FACE	TYP. U.N.O.	TYPICAL UNLESS NOTED OTHERWISE	
	IN. INFO.	INCH/INCHES INFORMATION	VERT.	VERTICAL	
	J.B.E.	JOIST BEARING ELEVATION	W.P. W.S.	WORK POINT WATERSTOP	
	JT.	JOINT	w.s. W.W.R.	WELDED WIRE REINFORCEMENT	Т
collective	K KSI	UNIT OF 1,000 POUNDS (KIP) KIPS PER SQUARE INCH	WT.	WEIGHT	
wallace design collective, pc	LBS.	POUNDS			
structural-okil-landscape-survey 2023 11 4	LLH	LONG LEG HORIZONTAL			
F englewood, color setesso 3033501900-800364 58512 DEV N D DY D D D D D D D D D D D D D D D D		10070			
REV. No: DATE: BY: REVISION DESCRIPTION: DRAWN BY: RM Image: Construction of the second	PROJECT: MILNER COLORADO COMMUNITY OF MILI		SHEET TITLE: STRUCTURAL O	BSERVATION REQUIREMENT	
FILE PRINTED ON: 11 /9 /2023 4:58:59 PM	ROUTT COUNTY, CC	DLORADO	AND ABBREVIA		
	ENGINEER: AQUAWORKS DBO, I 3252 WILLIAMS STR		PROJECT NUMBER	R: SCALE:	SHEET:
U IF ITIS DAR DUES NUT READ I DESIGN BUILD OPERATE 10/10/2024	DENVER, COLORADO		#3857	N.T.S.	S2
DRAWING IS NOT LABELED TO SCALE	(303) 477–5915	0		0	

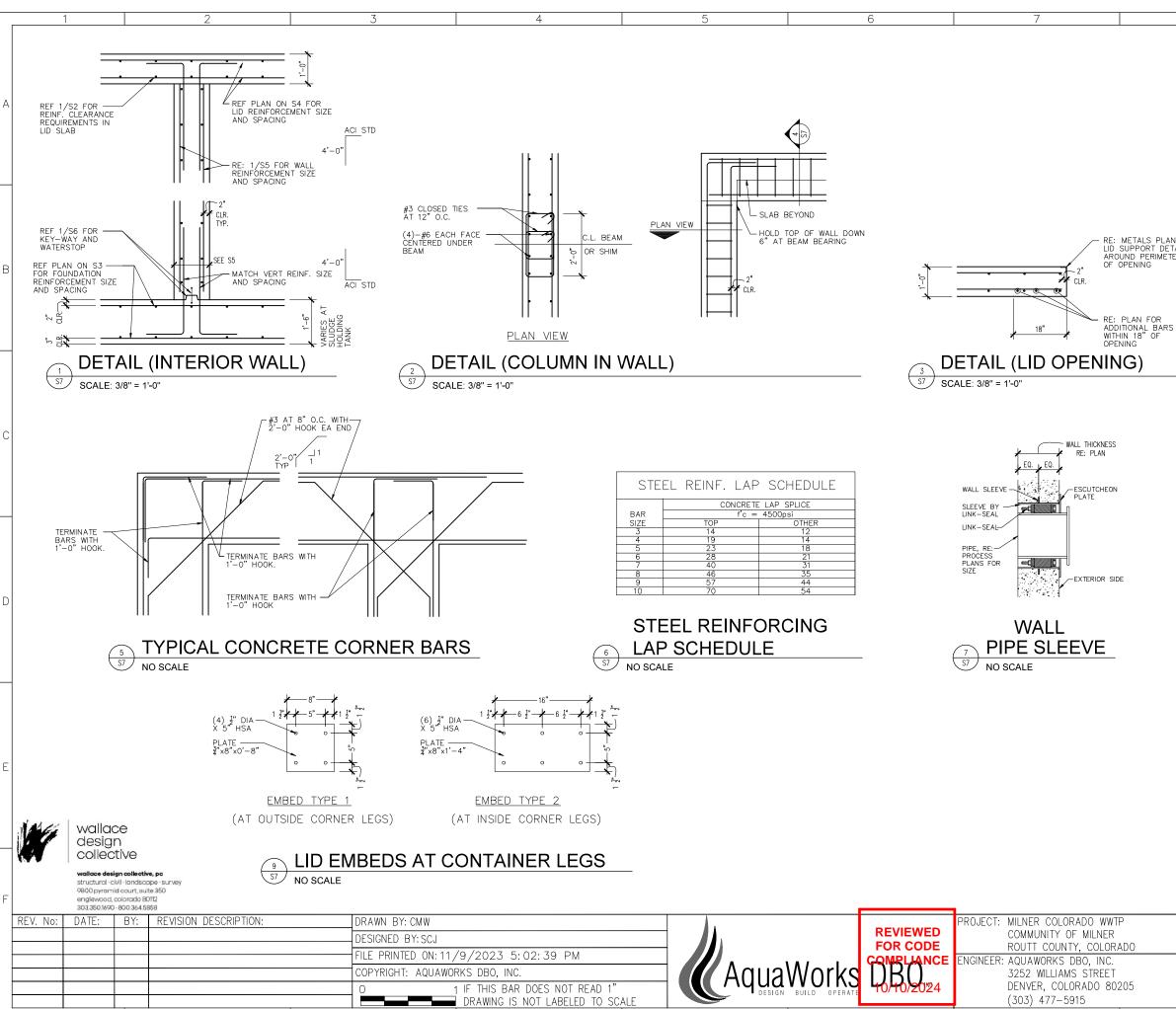
#3857	N.	T.S.	S2		
PROJECT NUMBER:	SCALE:		SHEET:		
SHEET TITLE: STRUCTURAL OBSERVATION REQUIREMENT AND ABBREVIATIONS					



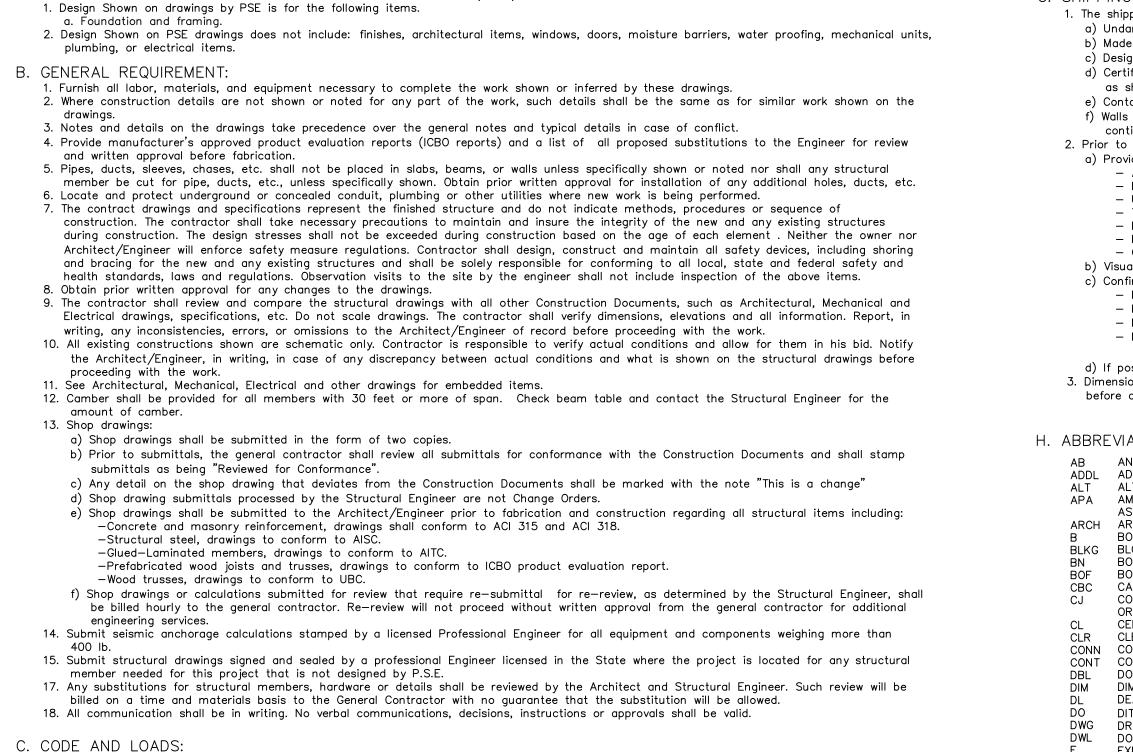








8	9	10	٦
SLAB REINF, REI		Additional #6 BARS	4
1/S [,] CON			Э
VERTICAL WALL- REINFORCING, CUT AT OPENING HORIZONTAL WALL REINFORCING, CUT AT OPENING			0
(1) ADDITIONAL # ON EACH FACE OF		ADDITIONAL 1)-#6x4'-0" HORIZONTAL EACH FACE TOP AND BOTTOM OF SPENING	C
OPENING	NING IN TANK WAL	L	
	SHEET TITLE: STRUCTURAL DETAILS	2023:11.14 15:24:15-06'00'	-
8	PROJECT NUMBER: SCALE: #3857 PER 9	DETAIL ST 10	
			_



1. All design, material, and construction work for this project shall conform to the Colorado State Building Codes based on the 2021 International Building Code (IBC).

Í. Wind Exposure = C

p. Site Class = D

r. S1 = 0.102

t. Sm1 = 0.244

v. Sd1 = 0.163

b. Floor Dead Load = 15 psf. d. Roof Dead load = 15 psf.

f. Flat Roof snow load = 53.8 psf.

h. Snow Load Importance Factor, Is = 1.0

n. Components and Cladding studs = 38 psf

z. Approximate Fundamental Period, T = 0.104

j. Ultimate Wind Speed (3 second gust) = 105 mph

- 2. Design parameters.
- a. Floor Live Load = 40 psf.
- c. Roof Live Load = n/a psf.
- e. Ground Snow Load, Pg = 76.8psf.
- g. Snow Exposure Factor, Ce = 1.0
- i. Thermal Factor, Ct = 1.0 k. Wind Importance Factor, Iw = 1.0
- m. Internal Pressure Coefficient = 0.85
- o. Seismic Importance Factor. le = 1.0
- q. Ss = 0.582 s. Sms = 0.777
- u. Sds = 0.518
- w. Seismic Design Category = D
- y. Design Base Shear = 0.259 * W
- aa. Response Modification Factor, R = 2.0 bb. Analysis Procedure Used = Equivalent Lateral Force Procedure
- D. INSPECTION:
- The owner shall employ one or more qualified Inspectors to provide inspections during construction in according with section 1701 of the above code. The Inspector shall be certified by the building official to perform the type of inspection specified. Inspection shall be provided for:

x. Basic Seismic Force Resisting System = Metal Sheathed Shipping Container

- b. Reinforcement placement, prior to closing the forms and delivery of concrete. c. Concrete placement.
- d. Bolts installed in concrete and masonry, prior to and during the placement of concrete around bolts.
- e. Structural Steel. f. Field welding.
- g. High-strength bolting.
- h. During preparation and taking of test specimens.

A. DESIGN SCOPE BY PSE CONSULTING ENGINEERS, INC. (PSE):

- i. See other sections of these notes for more required inspections. Note: All discrepancies shall be brought to the immediate attention of the contractor for correction; then if not corrected, to the building official and to the Engineer in writing. The inspector shall furnish an inspection report to the building official and to the Engineer/Architect of Record.
- E. TESTING:
- The owner/contractor shall retain an independent testing laboratory to test the quality of: a. Soil or fill material supporting footings and slab-on-grade.

On-Site Fabrication

- b. Concrete.
- c. Mortar shall be tested in accordance with UBC standard 21-16. d. Grout shall be tested in accordance with UBC standard 21-18.
- e. All other material used in this project as required by the Engineer.
- f. A copy of test results shall be sent to the Engineer of Record.
- F. STRUCTURAL STEEL:

Maverick

1. Unless noted otherwise on plans, all structural steel shall be per Table 2-3 of AISC Manual of Steel Construction, Thirteenth Edition, as shown below:

Shape	Steel, Typ	Yeild Strength Fy, KSI
W-shape	A 992	50-65
Angles	A 36	36
Rectangular Tube, HSS	A 500, Gr.C	50
Round Tube, HSS	A 500, Gr.C	46
Pipe	A53, Gr.B	35
Plate	A 36	36
1"ø – 3"ø Bolts	A 325	120/105
LGS Stud < 18ga	A 570 Gr. 33	33
LGS Stud ≥ 18 ga	A 607 Gr. 55	55
Container/Module Tube	Corten/A242	50
Container/Module Channel	Corten/A242	50
Container/Module Panel	Corten/A242	50

2. Fabrication and erection shall be in accordance with the American Institute of Steel Construction (AISC). 3. All beam connections shall be bolted or shop welded as detailed on the drawing or designed by fabricator per AISC Manual of Steel Construction allowable Stress Design, "Framed Beam Connections." Bolts shall be 3/4 inch. diameter ASTM A325, load indicator bolts. All bolts shall be tightened to the

minimum tension specified in the specification for structural joints using A325 or A490 bolts. 4. All welding shall conform to the current American Welding Society (AWS) Specifications and be performed by certified welders.

5. Column anchor bolts shall have minimum yield strength of 36 KSI. 6. Metal deck shall be the type as indicated on the drawings. The deck shall be welded to the supporting members per manufacturer's recommendations or as

- indicated on the drawings whichever is more restricting or stringent.
- 7. All openings in metal deck to have 4" X 4" X 1/4" angle frames set between joists. 8. All structural steel and bar joists shall have one shop coat of rust inhibitor primer paint conforming to specification. Field touch up all unpainted areas

and weld areas. 9. Grout for base plates shall be nonmetallic, non-shrinkage cementitious grout having a minimum 3-days compressive strength of 4000 PSI.

10. Reference specifications for additional requirements.

REVIEWED FOR CODE COMPLIANCE 10/10/2024

STRUCTURAL GENERAL NOTES - APPLICABLE TO ALL CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS

G. SHIPPING / CARGO CONTAINER SPECIFICATION:

1. The shipping / cargo container(s) shall be: a) Undamaged (Free of rust, dents, cracks, et cetera that affect the structural integrity of the container).

b) Made from steel. c) Design and tested according to the International Organization for Standardization (ISO) specifications.

d) Certified for compliance to the Rules for Certification of Cargo Containers and the International Convention for Safe Containers (CSC) for use as shipping containers by the American Bureau of Shipping (ABS) or other approved Certified Inspection and Testing Agency (CITA). e) Container shall have a CSC safety approval placard (CSC Plate) and CITA logo prior to any modification. f) Walls and roof are continuously welded around its entire periphery and is itself made from sheets of corrugated 14ga. Cor-Ten steel also

continuously welded together. This steel, also used for the side and end walls has a minimum yeild strength of 50ksi and tensile of 70ksi. 2. Prior to construction/modification, Client / Owner / Contractor shall:

a) Provide pictures of high/good quality to PSE showing the following of each container: All four sides

– Roof

— Under framing — Top Rails

– Bottom Rails

 Interior — CSC Plate

b) Visually inspect all existing welds for consistency and undamaged.

c) Confirm existing plywood floor sheathing is: - Not damaged, cracked, deformed, delaminated, or showing any other signs that structural integrity has been compromised

- Free of hazardous materials, liquids, and/or stains, or shall be encapsulated.

- Fully fastened to container floor joists per original construction. - If existing plywood floor sheathing needs to be replaced, inform PSE prior to replacing with equivalent pressure/preservative treated OSB

or $\frac{1}{4}$ " steel plate with equivalent or better fastening to container floor joists. d) If possible, provide manufacturer drawings of container to PSE.

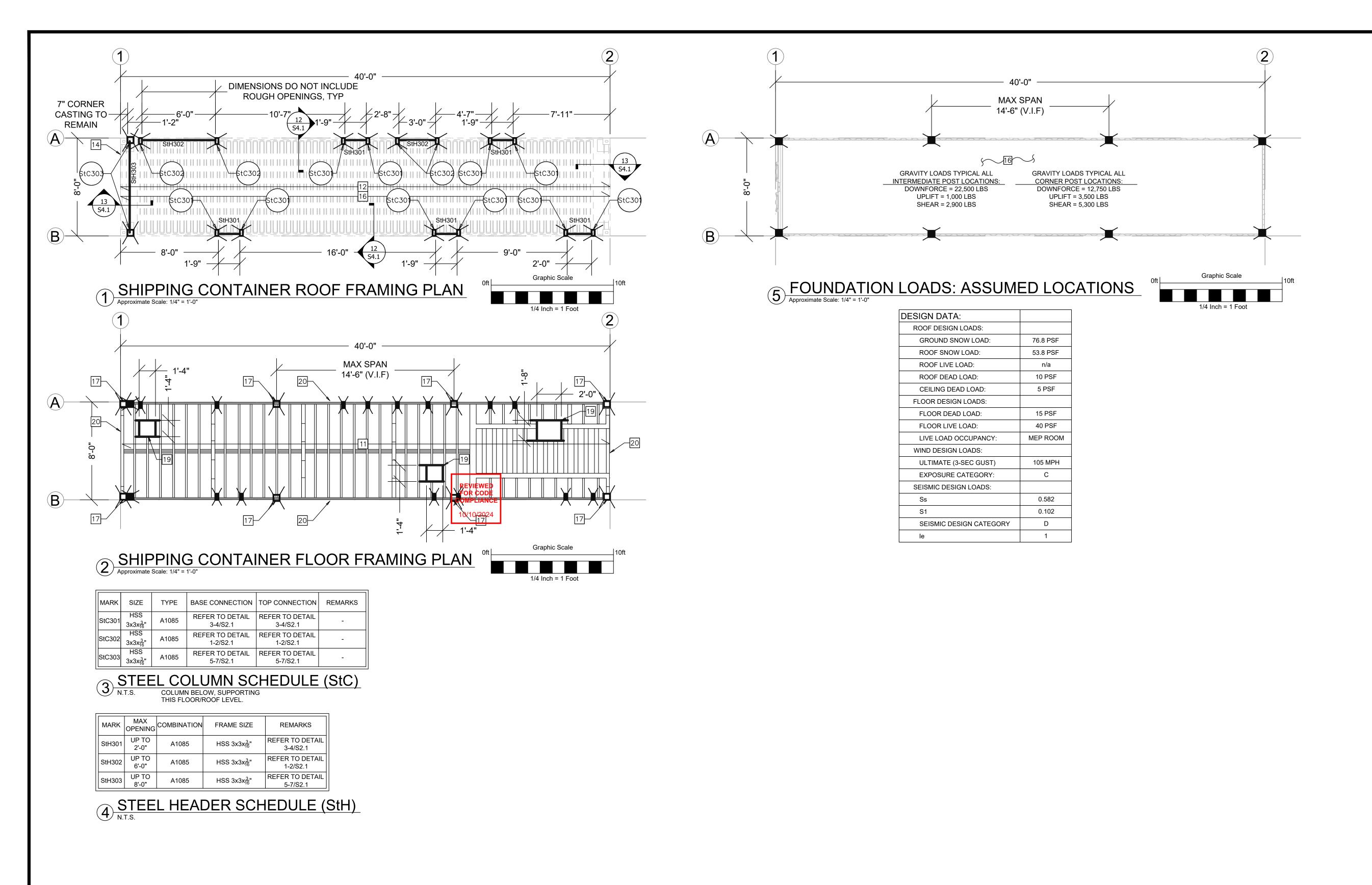
3. Dimensions provided may be the nominal dimensions of the container. Contractor/fabricator, owner, and/or architect to verify actual dimension before construction.

ABBREVIATIONS:								
AB ADDL	ANCHOR BOLT ADDITIONAL	EQ ES	EQUAL EACH SIDE	LL MATL	LIVE LOAD MATERIAL	RFT SGN	RAFTERS STRUCTURAL GENERAL	
ALT	ALTERNATE	EW	EACH WAY	MAX	MAXIMUM		NOTES	
APA	AMERICAN PLYWOOD	FA	FRAMING ANCHOR	MB	MACHINE BOLT	SEP	SEPARATION	
	AMERICAN PETWOOD ASSOCIATION ARCHITECTURAL	FD FEN	FROST DEPTH FLOOR EDGE NAILING	MFR	MANUFACTURER	SIM	SIMILAR	
ARCH B	BOTTOM	FEN	FINISHED FLOOR	MIN.		SN	SHEAR NAIL	
BLKG	BLOCKING	FN	FIELD/INTERMEDIATE	MTL NO.		SNL	SNOW LOAD SPECIFICATION	
BN	BOUNDARY NAIL			NO. NS	MAXIMUM MACHINE BOLT MANUFACTURER MINIMUM METAL NUMBER NEAR SIDE NOT TO SCALE		STANDARD	
BOF	BOTTOM OF FOOTING	FS	NAILING FAR SIDE FOOTING GALVANIZED GENERAL CONTRACTOR	NTS	NOT TO SCALE	STGR	STAGGER	
CBC	CALIFORNIA BUILDING CODE	FTG	FOOTING	OC	ON CENTER	STIFF	STIFFENERS	
CJ	CONSTRUCTION JOINT	GALV	GALVANIZED	OD	OUTSIDE DIAMETER	T	TOP	
	OR CONTROL JOINT	GC	GENERAL CONTRACTOR	OFDSC	OREGON ONE & TWO FAMILY	ΤB	TOP & BOTTOM	
CL	CENTER LINE	GIR	GEOTECHNICAL INVESTIGATION		DWELLING SPECIALTY CODE	TD	TYPICAL DETAILS	
CLR	CLEAR CONNECTION	GLB	REPORT	OH		TG	TONGUE & GROOVE	
CONN CONT	CONTINUOUS	GLB GR	GLUED LAMINATED BEAM	OSB	ORIENTED STRAND BOARD	THK	THICKNESS/THICK	
DBL	DOUBLE	HDR	GRADE HEADER	0550	OREGON STRUCTURAL SPECIALTY CODE	TN	TOENAIL	
DIM	DIMENSION	HGR	HANGER	OSV	SPECIALTY CODE ON SITE VERIFY	TOB TOF	TOP OF BEAM TOP OF FOOTING	
DL	DEAD LOAD		HORIZONTAL		OUT TO OUT OF BEARING	TOW	TOP OF WALL	
DO	DITTO (REPEAT)	HSH	HORIZONTALLY SLOTTED HOLES	PERP	PERPENDICULAR	TYP	TYPICAL	
DWG	DRAWING	ICBO	INTERNATIONAL CONFERENCE OF	PI	PLATE		UNIFORM BUILDING CODE	
DWL	DOWEL		BUILDING OFFICIALS INSIDE DIAMETER INTERIOR JOINT LEDGER LIGHT GAUGE STEEL, COLD-FORMED STEEL	PLF	POUND PER LINEAR FOOT	UON	UNLESS OTHERWISE NOTED	
E.	EXISTING	ID	INSIDE DIAMETER	PSE	PSE, INC.	VERT	VERTICAL	
EA	EACH	INT	INTERIOR	PT	PRESSURE TREATED	VSH	VERTICAL SLOTTED HOLES	
EF EL	EACH FACE	JT LDGR		PW	PLATE WASHER	WD	WOOD	
	ELEVATION EMBEDMENT	LGST	LEDGER	REF	REFERENCE	WEN	WALL EDGE NAILING	
EN	EDGE NAIL	2001	COLD_FORMED STEEL,	REN REINF	ROOF EDGE NAILING REINFORCEMENT	WWF	WELDED WIRE FABRIC	
EOR	ENGINEER OF RECORD		SOLD FORMED STELL	IVE IINF		W/	WITH WITHOUT	
						W/O	WINOUT	

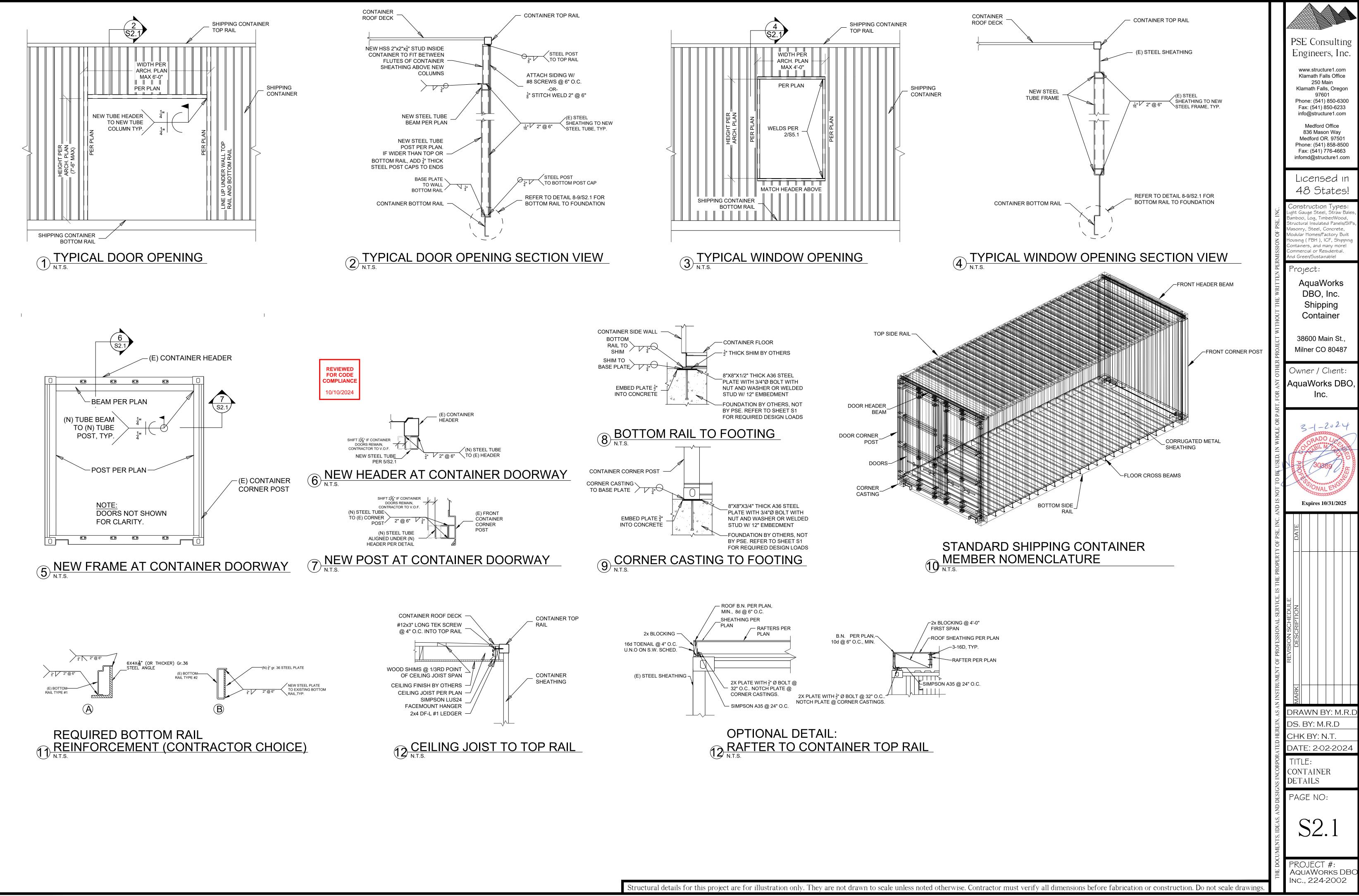
	Æ								
			E ngi				-	-	
		ł	vww Klam ama	nath 25	Fa 0 M	lls C ain	Offic	e	
		Pł F	none ax:	9 e: (5 (54	760 41) 1) 8)1 85(50-)-63 623	300 3	
					aso I OF	n W R. 9	/ay 750		
		F inf	ax: omc	(54 I@s	1) 7 truc	76- cture	466 e1.c	i3 :om	
	C	Z	1C) 8		5t	at	e	s!	
ERMISSION OF PSE, INC.	Bai Sti Ma Ho Co And	mbc ruct son odula usin ntai mma d Gi	Stri Gaug oo, L ural ry, S ar Hi g (I ners ercia reen	.og, Insu Stee ome BH o, an al or /Sus	Tim late el, C s/Fa), lo d m Res stair	ber/ d Pa conc icto CF, any any	Woo nete ry B Ship mor ntial	od, s/SII e, built opina re!	Ps,
WRITTEN PI	F		¢ץ קר ס		١W			5	
HOUT THE			S	bi on	pp	in	g		
ROJECT WIT			86 ilne						
NY OTHER PI			ne Ial						
ART, FOR A	AquaWorks DBO, Inc.								
ND IS NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSI		PIRO	Ex	RA AB		2000	200 E 1 1 2 0 00 00 00 00 00 00 00 00 00 00 00 00	Y 1000 H3 000	() and the second
PSE, INC. AI		DATE							
ROPERTY OF									
D HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PSE, INC. AND IS N	ΤτΤ								
NAL SERVIC	REVISION SCHEDULE	DESCRIPTION							
F PROFESSIC	REVISION 5	DESC							
FRUMENT O		X							
AS AN INS	D	NARK R	 4V	/N	В	Y:	M	.R	.D
TED HEREIN ,			B` K E B	3Y	: N	R. I.T 2-2	•	21	1
NCORPORA	T G	IT EN	LE JEF	: RA		2	_0	<u> </u>	₽ ′
D DESIGNS I			FES GE		0	:			
THE DOCUMENTS, IDEAS, AND DESIGNS INCORPORATEI				S)				
DOCUMENT			ЭJ						
THE	P	٩Q	UA :., 2	W	OF	RK	s		80

		G	
	/	DESIC	PAGE NO
SHEET INDEX		AND	
S1	GENERAL STRUCTURAL NOTES	AS, A	\sim
S2	CONTAINER FLOOR PLANS	IDE∉	S
S2.1	CONTAINER DETAILS	ENTS,	\sim
		CUMENT	
		THE DOC	PROJECT AquaWor

Structural details for this project are for illustration only. They are not drawn to scale unless noted otherwise. Contractor must verify all dimensions before fabrication or construction. Do not scale drawings.



LEGEND:		
DISCONTINUOUS 2x6 DF-L #2 @ 16" O.C. SHEAR WALL AND/OR LOAD BEARING WALL SUPPORTING/BELOW THIS FLOOR/ROOF.		
DISCONTINUOUS 2x6 DF-L #2 @ 16" O.C. SHEAR WALL AND/OR LOAD BEARING WALL ABOVE THIS FLOOR/ROOF.		PSE Consulting Engineers, Inc.
DISCONTINUOUS COLUMN SUPPORTING THIS FLOOR/ROOF.		www.structure1.com Klamath Falls Office 250 Main
		Klamath Falls, Oregon 97601 Phone: (541) 850-6300 Fax: (541) 850-6233
n INDICATES SHEET NOTES. Cn INDICATES COLUMN MARK, REFER TO COLUMN SCHEDULE.		info@structure1.com Medford Office 836 Mason Way
n NUMERICAL VALUE, 1, 2, 3 ETC.		Medford OR. 97501 Phone: (541) 858-8500 Fax: (541) 776-4663 infomd@structure1.com
SHEET NOTES:	1	Licensed in
1 REFER TO S1 FOR STRUCTURAL GENERAL NOTES AND TO ROOF DETAIL SHEETS FOR CONSTRUCTION DETAILS.		48 States!
2 VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.	INC.	Construction Types: Light Gauge Steel, Straw Bale Bamboo, Log, Timber/Wood,
3 PROVIDE MULTIPLE STUDS UNDER BEAMS OR TRUSSES TO MATCH WIDTH OF SUPPORTED MEMBER, TYP. STUDS SHALL BE CONTINUED IN LOWER FLOORS AND/OR CRAWL SPACE TO FOOTING, TYP.	ON OF PSE, INC.	Structural Insulated Panels/SII Masonry, Steel, Concrete, Modular Homes/Factory Built Housing (FBH), ICF, Shipping Containers, and many more!
 ROOF DRAINAGE SHALL BE DIRECTED AWAY FROM FOUNDATION. PROVIDE SOLID BLOCKING UNDER POSTS AND MULTIPLE STUDS TO 	RMISSI	Commercial or Residential. And Green/Sustainable!
TRANSFER LOADS TO POSTS/STUDS BELOW.	TEN PE	Project:
 6 LAY FLOOR AND ROOF STRUCTURAL PANELS WITH THE LONG DIMENSION AT RIGHT ANGLE TO SUPPORTS AND CONTINUOUS OVER TWO OR MORE SPANS. 	THE WRIT	AquaWorks DBO, Inc. Shipping
 [7] LIMIT LIVE LOAD DEFLECTION TO SPAN OVER 480 FOR RAFTERS, JOISTS, BEAMS. 	TUOH	Container
8 FLOOR SHEATHING SHALL BE 3/4" OR MORE THICK APA T&G PLYWOOD OR OSB WITH 48"/24" SPAN RATING. USE 8d @ 4" O.C. (BN) AT EXTERIOR WALLS AND INTERIOR SHEAR WALLS. 8d @ 6" O.C. (FEN) ALONG PANEL EDGES AND 8d @ 10" O.C. AT INTERMEDIATE SUPPORTS, UON. MINIMUM PENETRATION IS 1 5/8" INTO FRAMING. USE GLUE.	OTHER PROJECT WITHOUT THE WRITTEN PERMISSION	38600 Main St., Milner CO 80487
9 FIELD GLUE FLOORS TO ALL SUPPORTS AND T&G EDGES PER APA, AFG-01. FRAMING SHALL BE FREE OF SURFACE MOISTURE AND DEBRIS PRIOR TO GLUING.		Owner / Client: AquaWorks DBC
10 IF HEAVY EQUIPMENT (WEIGHING OVER 500LBS) IS PLACED OVER FINISHED FLOOR CONTACT EOR FOR REVIEW PRIOR TO INSTALLATION.	ART, FOR ANY	Inc.
11 EXISTING CONTAINER FLOOR BEAMS/RAILS, JOISTS & FLOORING TO REMAIN UNMODIFIED U.N.O	LE OR PART,	3-1-2024
12 EXISTING CONTAINER ROOF TO REMAIN UNMODIFIED U.N.O	USED, IN WHOLE	OTORADO LI
13 CENTER FOOTING UNDER POSTS AND WALLS UNLESS OTHERWISE NOTED ON PLANS AND/OR DETAILS.	USED, I	30389
14 SHIPPING CONTAINER DOOR AND CORNER CASTING TO REMAIN.15 LINE OF SHIPPING CONTAINER ABOVE	TO BE I	
 CONTRACTOR'S CHOICE: 2x4 DF-L #1 CEILING JOIST @ 12" O.C. WITH 2x BLOCKING AT 	IS NOT	Expires 10/31/2025
HALFWAY POINT AND WOOD SHIM ABOVE @ 1/3RD POINTS. REFER TO DETAIL 12/S2.1 FOR CONNECTION TO TOP RAIL OR 2x4 DF-L #1 RAFTER @ 12" O.C. WITH 2x BLOCKING AT HALFWAY POINT. REFER TO DETAIL 13/S2.1 FOR CONNECTION TO TOP RAIL	AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PSE, INC. AND IS	
17 CONTRACTOR TO ATTACH SHIPPING CONTAINER TO FOUNDATION BY OTHERS WITH BASE PLATE AS PER 8-9/S2.1 AT CORNERS AND MAXIMUM 14'-6" O.C. ALONG BOTTOM RAIL.	RTY OF PSI	DATE
18 REINFORCE BOTTOM RAIL ALONG THIS LINE AS PER DETAIL 11/S2.1	PROPEI	
19 CONTRACTOR SHALL VERIFY OPENING IN FLOOR. FLOOR OPENING SHALL BE REINFORCED WITH (2) L4x4x ¹ / ₄ " A36 ANGLE BETWEEN EXISTING FRAMING MEMBERS AND (2) 4"x ¹ / ₄ " A36 FLAT PLATE BETWEEN NEW 'L'-ANGLE	CE, IS THE	ш
20 FOUNDATION NOT BY PSE. OWNER/CONTRACTOR TO HIRE LOCAL LICENSED ENGINEER OR PSE TO DESIGN FOUNDATION TO SUPPORT SHIPPING CONTAINER. CONTACT PSE FOR ADDITIONAL	IAL SERVI	REVISION SCHEDULE DESCRIPTION
INFORMATION.	FESSION	DESCR
	of proi	REVIS
	JMENT (
	INSTRU	MARK
		DRAWN BY: M.R.
	D HEREIN,	DS. BY: M.R.D CHK BY: N.T.
	т	DATE: 2-02-2024
	AND DESIGNS INCORPORAT	TITLE: Container Floor plans
	ND DESIG	PAGE NO:
		S2
	JMENTS	
	THE DOCUMENTS, IDEAS,	PROJECT #: AquaWorks DB
sions before fabrication or construction. Do not scale drawings.		Inc., 224-2002



Maverick

- A. DESIGN SCOPE BY PSE CONSULTING ENGINEERS, INC. (PSE): 1. Design Shown on drawings by PSE is for the following items.
- a. Foundation Reactions and Framing. 2. Design Shown on PSE drawings does not include: finishes, architectural items, windows, doors, moisture barriers, water proofing, mechanical units, plumbing, or electrical items.
- B. GENERAL REQUIREMENT:
- 1. Furnish all labor, materials, and equipment necessary to complete the work shown or inferred by these drawings. 2. Where construction details are not shown or noted for any part of the work, such details shall be the same as for similar work shown on the
- 3. Notes and details on the drawings take precedence over the general notes and typical details in case of conflict.
- 4. Provide manufacturer's approved product evaluation reports (ICBO reports) and a list of all proposed substitutions to the Engineer for review and written approval before fabrication. 5. Pipes, ducts, sleeves, chases, etc. shall not be placed in slabs, beams, or walls unless specifically shown or noted nor shall any structural member be cut for pipe, ducts, etc., unless specifically shown. Obtain prior written approval for installation of any additional holes, ducts, etc.
- 6. Locate and protect underground or concealed conduit, plumbing or other utilities where new work is being performed.
- 7. The contract drawings and specifications represent the finished structure and do not indicate methods, procedures or sequence of construction. The contractor shall take necessary precautions to maintain and insure the integrity of the new and any existing structures during construction. The design stresses shall not be exceeded during construction based on the age of each element . Neither the owner nor Architect/Engineer will enforce safety measure regulations. Contractor shall design, construct and maintain all safety devices, including shoring and bracing for the new and any existing structures and shall be solely responsible for conforming to all local, state and federal safety and
- health standards, laws and regulations. Observation visits to the site by the engineer shall not include inspection of the above items. 8. Obtain prior written approval for any changes to the drawings. 9. The contractor shall review and compare the structural drawings with all other Construction Documents, such as Architectural, Mechanical and Electrical drawings, specifications, etc. Do not scale drawings. The contractor shall verify dimensions, elevations and all information. Report, in writing, any inconsistencies, errors, or omissions to the Architect/Engineer of record before proceeding with the work.
- 10. All existing constructions shown are schematic only. Contractor is responsible to verify actual conditions and allow for them in his bid. Notify the Architect/Engineer, in writing, in case of any discrepancy between actual conditions and what is shown on the structural drawings before proceeding with the work. 11. See Architectural, Mechanical, Electrical and other drawings for embedded items.
- 12. Camber shall be provided for all members with 30 feet or more of span. Check beam table and contact the Structural Engineer for the amount of camber.
- 13. Shop drawings: a) Shop drawings shall be submitted in the form of two copies.
- b) Prior to submittals, the general contractor shall review all submittals for conformance with the Construction Documents and shall stamp submittals as being "Reviewed for Conformance". c) Any detail on the shop drawing that deviates from the Construction Documents shall be marked with the note "This is a change"
- d) Shop drawing submittals processed by the Structural Engineer are not Change Orders.
- e) Shop drawings shall be submitted to the Architect/Engineer prior to fabrication and construction regarding all structural items including: -Concrete and masonry reinforcement, drawings shall conform to ACI 315 and ACI 318. -Structural steel, drawings to conform to AISC.
- -Glued-Laminated members, drawings to conform to AITC.
- -Prefabricated wood joists and trusses, drawings to conform to ICBO product evaluation report. -Wood trusses, drawings to conform to UBC.
- f) Shop drawings or calculations submitted for review that require re-submittal for re-review, as determined by the Structural Engineer, shall be billed hourly to the general contractor. Re-review will not proceed without written approval from the general contractor for additional enaineerina services.
- 14. Submit seismic anchorage calculations stamped by a licensed Professional Engineer for all equipment and components weighing more than
- 15. Submit structural drawings signed and sealed by a professional Engineer licensed in the State where the project is located for any structural member needed for this project that is not designed by P.S.E. 17. Any substitutions for structural members, hardware or details shall be reviewed by the Architect and Structural Engineer. Such review will be
- billed on a time and materials basis to the General Contractor with no guarantee that the substitution will be allowed. 18. All communication shall be in writing. No verbal communications, decisions, instructions or approvals shall be valid.

C. CODE AND LOADS:

q. Ss = 0.582

s. Sms = 0.777

u. Sds = 0.518

- 1. All design, material, and construction work for this project shall conform to the 2022 Colorado State Building Code
- based on the 2021 International Building Code (IBC). 2. Design parameters.
- a. Floor Live Load = 40 psf. c. Roof Live Load = 20 psf.

Thermal Factor, Ct = 1.0

w. Seismic Design Category = D

e. Ground Snow Load, Pg = 76.8psf.

g. Snow Exposure Factor, Ce = 1.0

k. Wind Importance Factor, Iw = 1.0

- b. Floor Dead Load = 15 psf. d. Roof Dead load = 20 psf.
- f. Flat Roof snow load = 80 psf.
- h. Snow Load Importance Factor, Is = 1.0j. Ultimate Wind Speed (3 second gust) = 105 mph
- I. Wind Exposure = C
- m. Internal Pressure Coefficient = 0.85n. Components and Cladding studs = 21.71 psf o. Seismic Importance Factor, le = 1.0
 - p. Site Class = D r. S1 = 0.102
 - t. Sm1 = 0.244
 - v. Sd1 = 0.163
 - x. Basic Seismic Force Resisting System = LIGHT FRAME WALLS WITH SHEAR PANELS
 - z. Approximate Fundamental Period, T = 0.104
- y. Design Base Shear = 0.259 * W aa. Response Modification Factor, R = 2.0 bb. Analysis Procedure Used = Equivalent Lateral Force Procedure
- D. INSPECTION:

The owner shall employ one or more qualified Inspectors to provide inspections during construction in according with section 1701 of the above code. The Inspector shall be certified by the building official to perform the type of inspection specified. Inspection shall be provided for: a. Foundation excavation

- b. Reinforcement placement, prior to closing the forms and delivery of concrete.
- . Concrete placement. d. Bolts installed in concrete and masonry, prior to and during the placement of concrete around bolts.
- e. Structural Steel. f. Field welding.
- a. High-strength bolting.
- h. During preparation and taking of test specimens.
- See other sections of these notes for more required inspections.

Note: All discrepancies shall be brought to the immediate attention of the contractor for correction; then if not corrected, to the building official and to the Engineer in writing. The inspector shall furnish an inspection report to the building official and to the Engineer/Architect of Record.

- E. TESTING:
- The owner/contractor shall retain an independent testing laboratory to test the quality of:
- a. Soil or fill material supporting footings and slab-on-grade. b. Concrete.
- c. Mortar shall be tested in accordance with UBC standard 21-16. d. Grout shall be tested in accordance with UBC standard 21-18.
- e. All other material used in this project as required by the Engineer
- f. A copy of test results shall be sent to the Engineer of Record.

F. STRUCTURAL STEEL:

1. Unless noted otherwise on plans, all structural steel shall be per Table 2–3 of AISC Manual of Steel Construction, Thirteenth Edition, as shown below: On-Site Fabrication

Shape	Steel, Typ	Yeild Strength Fy, KSI
W-shape	A 992	50-65
Angles	A 36	36
Rectangular Tube, HSS	A 500, Gr.C	50
Round Tube, HSS	A 500, Gr.C	46
Pipe	A53, Gr.B	35
Plate	A 36	36
¹ / ₂ "ø − ³ / ₄ "ø Bolts	A 325	120/105
LGS Stud < 18ga	A 570 Gr. 33	33
LGS Stud ≥ 18 ga	A 607 Gr. 55	55
Container/Module Tube	Corten/A242	50
Container/Module Channel	Corten/A242	50
Container/Module Panel	Corten/A242	50

2. Fabrication and erection shall be in accordance with the American Institute of Steel Construction (AISC).

- 3. All beam connections shall be bolted or shop welded as detailed on the drawing or designed by fabricator per AISC Manual of Steel Construction allowable Stress Design, "Framed Beam Connections." Bolts shall be 3/4 inch. diameter ASTM A325, load indicator bolts. All bolts shall be tightened to the minimum tension specified in the specification for structural joints using A325 or A490 bolts.
- 4. All welding shall conform to the current American Welding Society (AWS) Specifications and be performed by certified welders.

5. Column anchor bolts shall have minimum yield strength of 36 KSI. 6. Metal deck shall be the type as indicated on the drawings. The deck shall be welded to the supporting members per manufacturer's recommendations or as indicated on the drawings whichever is more restricting or stringent.

- 7. All openings in metal deck to have 4" X 4" X ¼" angle frames set between joists.
- 8. All structural steel and bar joists shall have one shop coat of rust inhibitor primer paint conforming to specification. Field touch up all unpainted areas and weld areas.
- 9. Grout for base plates shall be nonmetallic, non-shrinkage cementitious grout having a minimum 3-days compressive strength of 4000 PSI. 10. Reference specifications for additional requirements.

REVIEWED FOR CODE COMPLIANC

10/10/2024



G. WOOD:

GENERAL:

MATERIALS

wrapped.

STUDS:

SHEATHING

- 1. All wood exposed to the weather or in contact with concrete or masonry shall be pressure treated or protected with a waterproof membrane. Newly exposed surfaces resulting from field cutting, boring or handling shall be field treated in accordance with AWPA M-4.
- 2. Maintain 1/2 inch air space at sides and at ends for beam pockets in concrete or masonry. Minimum bearing is 3 inches UON. 3. Wood framina members, sheathing and combustible materials shall not be placed closer than 2 inches to chimney walls. The gap shall be fire stopped using a minimum of 1 inch thick noncombustible materials, UON.

4. Reference specifications for more requirements.

5. It is required that the contractor keep a copy of the Simpson catalog and/or Simpson Installation Manual on site at all times, and shall be used with the installation process at all Simpson connections.

STICK FRAMING: 1. All wood Stick Framing shall be Douglas Fir/Larch #2 (DF #2) or better unless otherwise noted on the drawings. Comply with PS 20, American softwood lumber standard and standard arading rules for western lumber. 19% maximum moisture content at time of placement. 2. All wood members shall be stamped showing wood grade and the grading agency.

- 3. All timbers to be FSC rated.
- 4. All materials to be low V.O.C. and non-urea formaldehyde. GLUED-LAMINATED TIMBER:
- 1. Glued-Laminated timber shall be manufactured, inspected, and tested according to: a. American National Standard for Wood products-Structural Glued Laminated Timber, ANSI/AITC A190.1 -1992
- b. Standard Specification for Structural Glued-Laminated Timber of Softwood Species, AITC 117; Manufacturing. c. Design and Standard Specifications for Hardwood Glued-Laminated Timber, AITC 119.
- In case of conflict, the most stringent requirement shall apply.

Submit certificate by one of the above agencies to the Engineer and the Building Inspector prior to installation. Glued-Laminated timber shall have wet-use adhesive, ASTM D2559. Lamination shall be 2 inches nominal. Appearance shall be Industrial, AITC 110. 4. Colorless end sealer shall be applied immediately to the ends of all members after fabrication and field trimming. Members shall be individually

5. Pressure treatment shall be provided for all members exposed to weather and not protected by a roof or eave overhang.

6. All cuts, holes, etc. shall be re-coated as recommended by the manufacturer. 7. Glued-Laminated timber shall have the following minimum combination and strength: a. Beams with simple spans shall have combination 24F-V4 or better.

b. Continuous beams shall have combination as shown on plans. JOISTS/ RAFTERS:

1. Provide a copy of the manufacturer's approved ICC product evaluation reports.

2. Wood joists shall be installed according to the manufacturer recommendations and as shown on drawings. Blocking, web stiffeners and bridging etc. shall be as required by the manufacturer's approved ICC product evaluation reports. 3. All joists, ceiling joists and rafters shall have a minimum of 1-1/2 inches bearing at each end on wood or metal, and not less than 3 inches on

masonry or concrete. Use approved joist hanger if bearing is not provided. 4. Install full depth solid blocking or cross bracing at intervals not exceeding 8 feet for all joists and rafters 2x12 inches and deeper.

1. Double full height studs shall be used at both ends of all walls shown on the structural drawings, UON.

2. Studs shall have full bearing on plates and sills. 3. Provide blocking at all ceiling levels. 4. Provide multiple studs under beams or trusses to match width of supported member, typical. TOP PLATES AND /OR CHORDS

1. Top plates or chords shall be continuous over headers UON. 2. Top plates shall be two pieces, same size as studs. Stagger splices 4'-0" minimum. Center splices over studs UON.

1. All wood structural panels shall be stamped with the appropriate grade trademark of the American Plywood Association (APA). 2. Block structural panel with 2X4 inch flat blocking where noted on roof or floor framing plans. Use ply clips at mid-span of unsupported panel edges.

3. Maintain 1/8" air space between structural panels in walls, floors and roofs at ends and at edges or as specified by the manufacturer. 4. Wood structural panels shall be manufactured using exterior glue and shall be not less than 4X8 feet except at boundaries.

H. WOOD CONNECTIONS:

1. It is required that the contractor keep the Simpson catalog and/or Simpson Installation Manual on site at all times to be used during the installation of all typical Simpson connections. 2. All exposed steel timber hardware, fasteners and connectors shall be galvanized.

3. All fasteners installed in contact with preservative-treated wood shall be of hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze or copper. The coating weights for zinc-coated fasteners shall be in accordance with ASTM A153. 4. Connector Hardware model numbers are those for the Simpson-Strong Tie Company. Size and number of nails, screws or bolts to be the maximum specified by the manufacturer UON.

Nails shall be common wire unless otherwise noted. 6. Machine nailing: The use of machine nailing is subject to continued satisfactory performance. Panel nails shall be driven so that the heads are flush with the surface of the panel and the minimum panel edge distance is 1/2 inch. 7. Bolts: maintain a distance not less then 7 bolt diameters from the end and 4 diameters from the edge of the member. Bore holes $\frac{1}{32}$ to $\frac{1}{16}$ inch

larger than the bolt diameter. All nuts shall be tightened when installed and re-tightened at completion of work or before closing in. Thread projection shall be ½ inch minimum beyond the nut. Use 5/16 inch thick X 3" X 3" washers, typ. 8. Lag screw clearance and lead/pilot holes shall be bored in two stages as follows: The clearance hole for the shank shall have the same diameter as

the shank, and the same depth of penetration as the length of unthreaded shank. The lead hole for the threaded portion shall have diameter equal to 70% of the shank diameter and a length equal to at least the length of the threaded portion. 9. Nailed/screwed or bolted hold-down anchors shall be installed per manufacturer's approved [ICC or ICC] product evaluation report. Install hold-downs 3/4 inch minimum above the plate to allow for tightening anchor bolt. The hold-down shall be installed tight to the hold-down post without

fillers or dapping. Do not bend hold-down anchors. 10. Connections shall be as detailed on the drawings. If not shown, minimum connections shall be as follows: a. Joist or rafter to sill or girder, toe nail..3–8d

b. Bridging to joist, toenail each end	2–8d
c. Sill plate to joist or blocking, typical, face nail [SN]	16d at 6" o.c.
d. Double top plates:	
Lower plate to studs	3–16d
Top plate to lower plate, face nail	16d @ 12" O.C.
• Top plate to lower plate at lap Splice [4'-0" minimum]	
Top plate to lower plate at intersection	
e. Stud to sill plate	
f. Double studs, face nail	16d at 12" o.c.
g. Blocking between joists or rafters to top plate, toenail	3–8d
h. Continuous header, two pieces	
i. Ceiling joists to plate, toenail	3–8d
j. Continuous header to stud, toenail	4–8d
k. Ceiling joists, laps over partitions, face nail	3–16d
I. Ceiling joists to parallel rafters, face nail	3–16d
m.Built-up corner studs	16d @ 12" o.c.

....8d @ 4" O.C. @ 3/8" from all panel n. 5/8" gyp. Sheathing to studs, sill plates & top plates..... edges and 8" O.C. @ intermediate supports o. For floor/roof stick framing construction, structural sheathing could be fastened to structural members using 16 gauge wire staples two inches long.

Staples shall have a minimum of χ_6 " diameter crown width. For roof and floor, staple spacing shall be per plan. For shear wall, spacing should be per shear wall schedule p. Staples for structural insulated panels, sips shall be per sips notes.

LL LIVE LOAD

q. NOTES: REF: To the above Building Code.

EQ

ES

EW

FA

FD

EQUAL

EACH SIDE

FRAMING ANCHOR

FROST DEPTH

EACH WAY

I. ABBREVIATIONS:

ANCHOR BOLT
ADDITIONAL
ALTERNATE
AMERICAN PLYWOOD
ASSOCIATION
ARCHITECTURAL
BOTTOM
BLOCKING
BOUNDARY NAIL
BOTTOM OF FOOTING
INTERNATIONAL BUILDING
CODE
CONSTRUCTION JOINT
OR CONTROL JOINT
CENTER LINE
CLEAR
CONNECTION
CONTINUOUS
DOUBLE
DIMENSION
DEAD LOAD
DITTO (REPEAT)
DRAWING
DOWEL
EXISTING
EACH
EACH FACE
ELEVATION
EMBEDMENT

EDGE NAIL

ENGINEER OF RECORD

FLOOR FDGE NAILING FEN FINISHED FLOOR FN FIELD/INTERMEDIATE NAILING FS FAR SIDE FTG FOOTING GALV GALVANIZED GENERAL CONTRACTOR GC GIR GEOTECHNICAL INVESTIGATION REPORT GLB GLUED LAMINATED BEAM GR GRADE HDR HEADER HGR HANGER HORIZ HORIZONTAL HSH HORIZONTALLY SLOTTED HOLES PERP PERPENDICULAR ICBO INTERNATIONAL CONFERENCE OF PL BUILDING OFFICIALS INSIDE DIAMETER INT INTERIOR JOINT LDGR LEDGER LGST LIGHT GAUGE STEEL, COLD-FORMED STEEL

MATL MATERIAL MAX MAXIMUM MB MACHINE BOLT MFR MANUFACTURER MINIMUM MIN. MTL METAL NUMBER NO. NS NEAR SIDE NOT TO SCALE NTS OC ON CENTER OUTSIDE DIAMETER OFDSC OREGON ONE & TWO FAMILY DWELLING SPECIALTY CODE OH OPPOSITE HAND OSB ORIENTED STRAND BOARD OSSC OREGON STRUCTURAL SPECIAL TY CODE OSV ON SITE VERIEY OTOB OUT TO OUT OF BEARING PLATE POUND PER LINEAR FOOT PLF PSE PSE. INC. PRESSURE TREATED ΡT PLATE WASHER PW RFF REFERENCE REN ROOF EDGE NAILING

REINF REINFORCEMENT

RET RAFTERS SGN STRUCTURAL GENERAL NOTES SEP SEPARATION SIM SIMILAR SN SHEAR NAIL SNL SNOW LOAD SPEC SPECIFICATION STD STANDARD STGR STAGGER STIFF STIFFENERS TOP TOP & BOTTOM TR

TYPICAL DETAILS TONGUE & GROOVE THICKNESS/THICK TOENAIL TOB TOP OF BEAM TOF TOP OF FOOTING

THK

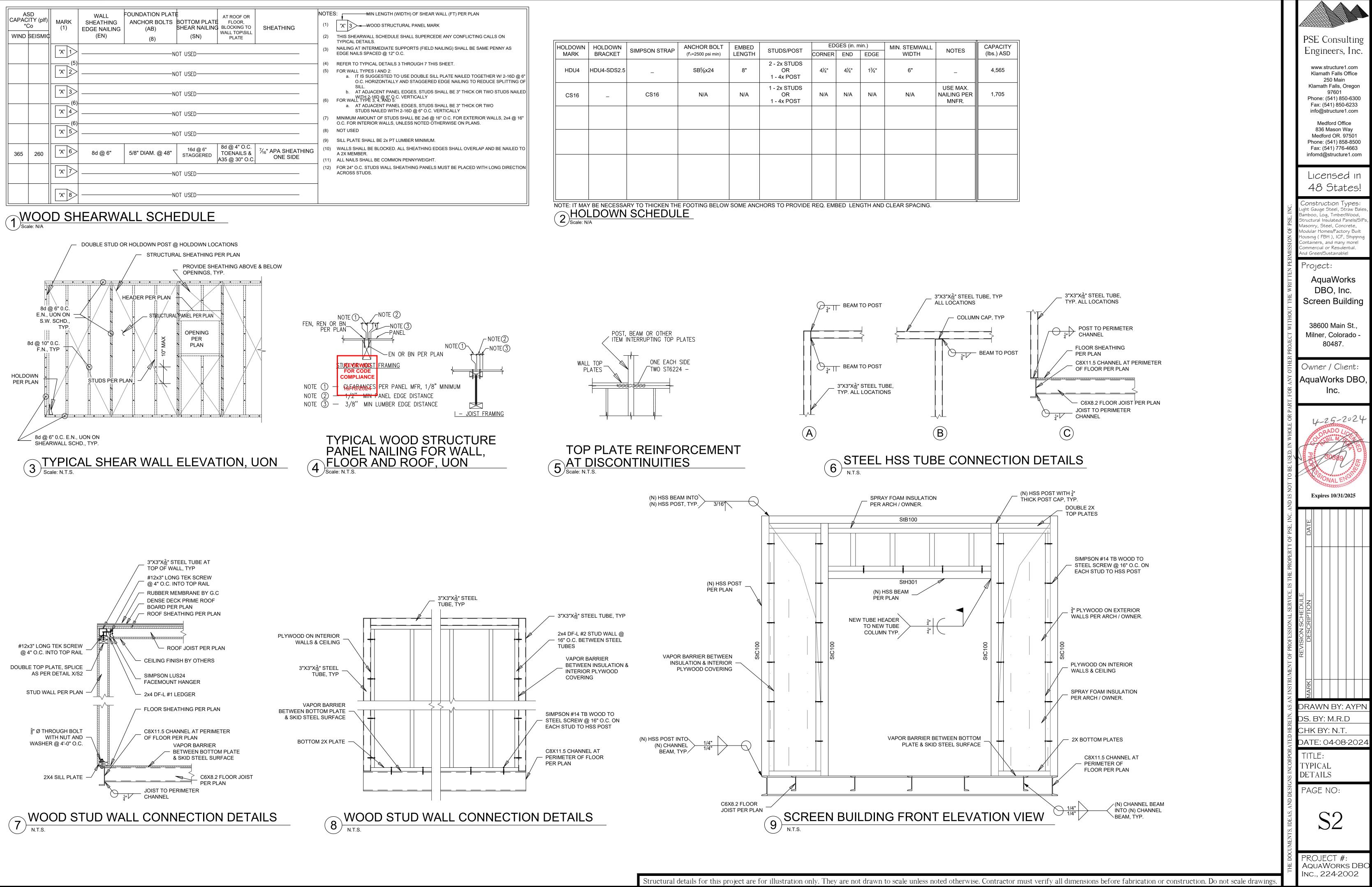
TN

TOW TOP OF WALL TYPICAL UBC UNIFORM BUILDING CODE UON UNLESS OTHERWISE NOTED VERT VERTICAL VSH VERTICAL SLOTTED HOLES WD WOOD WEN WALL EDGE NAILING WWF WELDED WIRE FABRIC w/ WITH W/O WITHOUT

Structural details for this project are for illustration only. They are not drawn to scale unless noted otherwise. Contractor must verify all dimensions before fabrication or construction. Do not scale drawings.

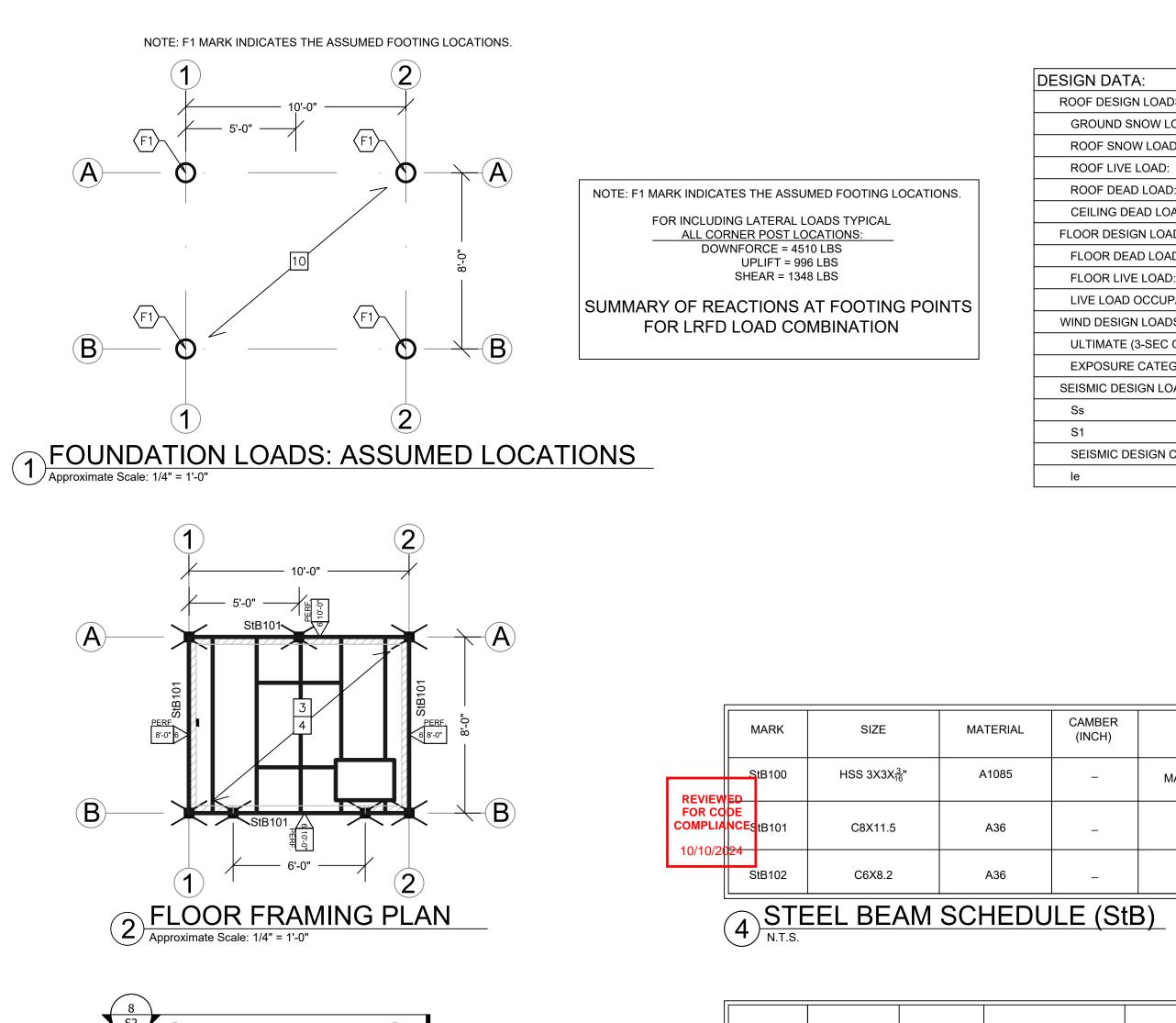
	Æ									
	PSE Consulting Engineers, Inc.									
		www.structure1.com Klamath Falls Office 250 Main								
		Pł F	lama none ⁻ ax: nfo@	9 e: (5 (54	760 41) 1) 8)1 85(350-)-63 623	300 33		
			83 Med	6 M forc	aso I OF		/ay 750			
		F	none ax: omd	(54	1) 7	76-	466	63		
		Z	10 18		5t	at	е	s!		
ERMISSION OF PSE, INC.	Bai Sti Ma Mo Co Co And	mbc ruct son odula usin ntai mma d G	Stri Gaug Ural Iry, S ar Ho Ig (f ners ercia reen	og, Insu Stee ome BH , an I or /Sue	Tim Ilate el, C s/Fa), li d m Res stair	ber/ onc onc acto CF, any olde	Woo nete ry E Ship mor ntia	od, s/SI e, built ppin re!	Ps,	
OT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSI		/	oje Aq D∣ ¢re	ua BC	aW D,	In	C.			
, TUOHTIW T		3	860 Ine	00	Ma	ain	St	.,	'	
HER PROJEC				80	48	7.				
RT, FOR ANY OTH		Owner / Client: AquaWorks DBO, Inc.								
HOLE OR PAI	4-25-2024 BADO L/05									
E USED, IN W	June	PHON		3	IL N	149		ED HA	canado	
IS NOT TO BI			Expi	res	AL	EN 0000 31/2	CIT	5000	r.	
E, INC. AND I			r							
ERTY OF PSI		DATE								
D HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PSE, INC. AND IS N										
L SERVICE, I	HEDULE	TION								
OFESSIONAI	REVISION SCHEDULE	DESCRIPTION								
1ENT OF PR	REVI									
AN INSTRUN		MARK								
REIN, AS /	DI DS	RA S.	\W BY	'N ': N	В` И.І	Y: R.I	AY D	'PI	N	
ATED HEI	CI D/		<u>< E</u> E:	8Y: 0/	N 4-(.Т)8	-20	22	4	
INCORPOR,	Ġ S		_	LAI	_					
ND DESIGNS			ΓES GE		10	:				
THE DOCUMENTS, IDEAS, AND DESIGNS INCORPORATEI			(S)					
DOCUMENT		-	OJ							
THE	A	١Q	UA 2., 2	W	'OF	RK	sI		80	

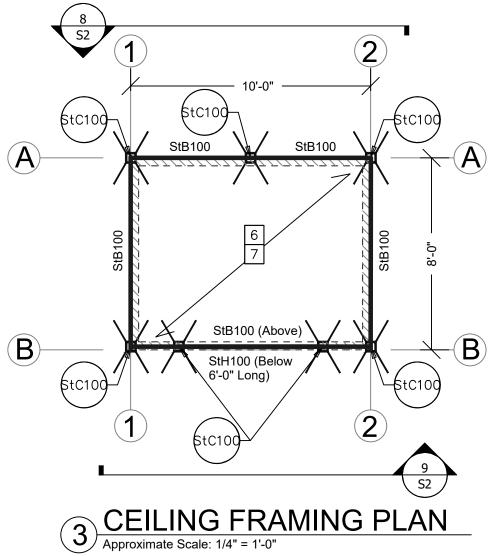
SHEET INDEX	<:
S1	GENERAL STRUCTURAL NOTES
S2	TYPICAL FRAMING DETAILS
S3	FOUNDATION REACTIONS & FRAMING PLAN



Maverick

	•											
PER PLAN												
NFLICTING CALLS ON												
HALL BE SAME PENNY AS		HOLDOWN MARK	HOLDOWN BRACKET	SIMPSON STRAP	ANCHOR BOLT (f [*] c=2500 psi min)	EMBED LENGTH	STUDS/POST	EDC CORNER	GES (in. m END	nin.) EDGE	MIN. STEMWALL WIDTH	NC
AILED TOGETHER W/ 2-16D @ 6" LING TO REDUCE SPLITTING OF		HDU4	HDU4-SDS2.5	_	SB%x24	8"	2 - 2x STUDS OR 1 - 4x POST	41⁄4"	4¼"	13⁄4"	6"	
" THICK OR TWO STUDS NAILED		CS16	_	CS16	N/A	N/A	1 - 2x STUDS OR 1 - 4x POST	N/A	N/A	N/A	N/A	USE NAILII Mi
" THICK OR TWO ' R EXTERIOR WALLS, 2x4 @ 16" ON PLANS.												
L OVERLAP AND BE NAILED TO												
PLACED WITH LONG DIRECTION												
				RY TO THICKEN TH		SOME ANC	HORS TO PROVIDE	E REQ. EMB	ED LEN	GTH AND	CLEAR SPACING.	





MARK	SIZE	TYPE	BASE CONNECTION	TOP CONNECTION	REMARKS
StC100	HSS 3x3x 3 "	A1085	REFER TO DETAIL 6/S2	REFER TO DETAIL 2/S2	-
5 STE	EEL CO	LUMN	SCHEDULE	(StC)	

г										
	MARK	MAX OPENING	COMBINATION	FRAME SIZE	REMARKS					
	StH100	UP TO 6'-0"	A1085	HSS 3x3x 3 "	REFER TO DETAIL 9/S2					
(6 STEEL HEADER SCHEDULE (StH)									

MATERIAL	CAMBER (INCH)	REMARKS
A1085	_	MAIN STRUCTURE BOX FRAME
A36	_	BOTTOM DECK FRAME
A36	_	BOTTOM DECK FRAME
		•

DESIGN DATA: ROOF DESIGN LOADS: GROUND SNOW LOAD: ROOF SNOW LOAD: ROOF LIVE LOAD:	76.82 PSF 80 PSF 20 PSF 15 PSF
GROUND SNOW LOAD: ROOF SNOW LOAD:	80 PSF 20 PSF 15 PSF
ROOF SNOW LOAD:	80 PSF 20 PSF 15 PSF
	20 PSF 15 PSF
ROOF LIVE LOAD:	15 PSF
ROOF DEAD LOAD:	
CEILING DEAD LOAD:	5 PSF
FLOOR DESIGN LOADS:	
FLOOR DEAD LOAD:	15 PSF
FLOOR LIVE LOAD:	40 PSF
LIVE LOAD OCCUPANCY:	RESIDENTIAL
WIND DESIGN LOADS:	
ULTIMATE (3-SEC GUST)	105 MPH
EXPOSURE CATEGORY:	С
SEISMIC DESIGN LOADS:	
Ss	0.582
S1	0.102
SEISMIC DESIGN CATEGORY	С
le	1.0

	LEGEND: DISCONTINUOUS 2X4 DF-L #2 @ 16" O.C. SHEAR WALL AND/OR LOAD BEARING WALL SUPPORTING/BELOW THIS	
	FLOOR/ROOF. DISCONTINUOUS 2X4 DF-L #2 @ 16" O.C. SHEAR WALL AND/OR LOAD BEARING WALL SUPPORTING ABOVE THIS FLOOR/ROOF.	PSE Consulting Engineers, Inc.
	COLUMN BELOW AND COLUMN ABOVE THIS FLOOR.	www.structure1.com Klamath Falls Office 250 Main Klamath Falls, Oregon
	COLUMN SUPPORTING NEXT FLOOR/ROOF UP.	97601 Phone: (541) 850-6300 Fax: (541) 850-6233
	THIS FLOOR/ROOF.VERTICAL WINDOW FRAMING STUB POST, NOT FULL	info@structure1.com Medford Office 836 Mason Way
	HEIGHT. HDNn INDICATES HOLD-DOWN MARK, REFER TO HOLD -DOWN SCHEDULE. n INDICATES SHEET NOTES.	Medford OR. 97501 Phone: (541) 858-8500 Fax: (541) 776-4663 infomd@structure1.com
	Cn INDICATES COLUMN MARK, REFER TO COLUMN SCHEDULE. n NUMERICAL VALUE, 1, 2, 3 ETC.	Licensed in 48 States!
	SHEET NOTES:	Construction Types: Light Gauge Steel, Straw Bales, Bamboo, Log, Timber/Wood,
	1 REFER TO S1 FOR STRUCTURAL GENERAL NOTES AND TO FLOOR DETAIL SHEETS FOR CONSTRUCTION DETAILS. TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT ON PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.	Structural Insulated Panels/SIPs, Masonry, Steel, Concrete, Modular Homes/Factory Built Housing (FBH), ICF, Shipping Containers, and many more! Commercial or Residential. And Green/Sustainable!
	2 VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.	AquaWorks
	3 CHECKERED STEEL FLOOR PLATE OR EQUIVALENT AS PER ARCH DRAWINGS / OWNER. (OR) IF THE FLOOR SHEATHING IS DONE WITH PLYWOOD SHEATHING MEANS, THE FLOOR SHEATHING SHALL BE 3/4" OR MORE THICK APA T&G PLYWOOD OR OSB WITH 48"/24" SPAN RATING. USE 8d @ 4" O.C. (BN) AT EXTERIOR WALLS AND INTERIOR	DBO, Inc. Screen Building 38600 Main St.,
	 SHEAR WALLS. 8d @ 6" O.C. (FEN) ALONG PANEL EDGES AND 8d @ 10" O.C. AT INTERMEDIATE SUPPORTS, UON. MINIMUM PENETRATION IS 1 5/8" INTO FRAMING. USE GLUE. ALL THE INTERIOR / INNER SIDE BEAMS ARE StB102 - C6X8.2. & FOR OUTER PERIMETER MAIN BEAM WILL BE StB101 - C8X11 5 AS PER 	ALL38600 Main St.,Milner, Colorado -80487.
	 OUTER PERIMETER MAIN BEAM WILL BE StB101 - C8X11.5, AS PER ARCH DRAWING & DIMENSIONS, SEE 1-3/S3 FOR MORE DETAILS. ROOF DRAINAGE SHALL BE DIRECTED AWAY FROM FOUNDATION. 	Owner / Client:
	 6 2x4 DF-L #1 CEILING JOIST @ 12" O.C. WITH 2x BLOCKING AT HALFWAY POINT AND WOOD SHIM ABOVE @ 1/3RD POINTS. REFER TO DETAIL 7/S2. 	AquaWorks DBO, Inc.
	7 RUBBER MOISTURE BARRIER ABOVE ¹ / ₂ " DENSEDECK ROOF BOARD WITH (20) FASTENERS PER 4'X8' BOARD INTO ROOF SHEATHING BELOW. SEE DENSDECK TECHNICAL GUIDE FOR ADDITIONAL INFORMATION. ROOF SHEATHING SHALL BE 5/8" THICK APA PLYWOOD WITH 24"/16" SPAN RATING. USE 8d @ 4" O.C. (BN) AT EXTERIOR WALLS AND INTERIOR SHEAR WALLS. 8d @ 6" O.C. (REN) AT PANEL EDGES AND 8d @ 10" O.C. AT INTERMEDIATE SUPPORTS, UON. MINIMUM PENETRATION IS 1 5/8" INTO FRAMING.	USED, IN WHOLE OR PART,
	8 ALL EXTERIOR WALLS SHALL BE TYPE 6 PER SHEAR WALL PER SHEAR WALL SCHEDULE UNLESS OTHERWISE NOTED ON PLANS.	TO BE US
	 IF HEAVY EQUIPMENT (WEIGHING OVER 500LBS) IS PLACED OVER FINISHED FLOOR CONTACT EOR FOR REVIEW PRIOR TO INSTALLATION. FOUNDATION BASE DUATE, ANCHOR POLIT DESIGN BY OTHERS, FOR 	Expires 10/31/2025
	[10] FOUNDATION, BASE PLATE, ANCHOR BOLT DESIGN BY OTHERS. FOR THE FOUNDATION BASE NODE REACTIONS REFER SHEET 1/S3. CONTACT PSE FOR ADDITIONAL INFORMATION.	IDEAS, AND DESIGNATED HERRIN, AS TRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PSE, INC. REVISION SCHEDULE REVISION SCHEDULE DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DETE: OT-OB-50054 LILLE: L
Graphic Scale 10ft		PROJECT #:
1/4 Inch = 1 Foot /ise. Contractor must verify all dimens	sions before fabrication or construction. Do not scale drawings.	PROJECT #: AQUAWORKS DBO INC., 224-2002



- g. High-strength bolting. h. During preparation and taking of test specimens.
- i. See other sections of these notes for more required inspections.

Note: All discrepancies shall be brought to the immediate attention of the contractor for correction; then if not corrected, to the building official and to the Engineer in writing. The inspector shall furnish an inspection report to the building official and to the Engineer/Architect of Record.

E. TESTING:

The owner/contractor shall retain an independent testing laboratory to test the quality of: a. Soil or fill material supporting footings and slab-on-grade.

On-Site Fabrication

- b. Concrete.
- c. Mortar shall be tested in accordance with UBC standard 21-16. d. Grout shall be tested in accordance with UBC standard 21-18.
- e. All other material used in this project as required by the Engineer.
- f. A copy of test results shall be sent to the Engineer of Record.

F. STRUCTURAL STEEL:

1. Unless noted otherwise on plans, all structural steel shall be per Table 2–3 of AISC Manual of Steel Construction, Thirteenth Edition, as shown below:

Shape	Steel, Typ	Yeild Strength Fy, KSI
W-shape	A 992	50-65
Angles	A 36	36
Rectangular Tube, HSS	A 500, Gr.C	50
Round Tube, HSS	A 500, Gr.C	46
Pipe	A53, Gr.B	35
Plate	A 36	36
1/2″ø − 3/4″ø Bolts	A 325	120/105
LGS Stud < 18ga	A 570 Gr. 33	33
LGS Stud ≥ 18 ga	A 607 Gr. 55	55
Container/Module Tube	Corten/A242	50
Container/Module Channel	Corten/A242	50
Container/Module Panel	Corten/A242	50

2. Fabrication and erection shall be in accordance with the American Institute of Steel Construction (AISC). 3. All beam connections shall be bolted or shop welded as detailed on the drawing or designed by fabricator per AISC Manual of Steel Construction allowable Stress Design, "Framed Beam Connections." Bolts shall be 3/4 inch. diameter ASTM A325, load indicator bolts. All bolts shall be tightened to the

minimum tension specified in the specification for structural joints using A325 or A490 bolts. 4. All welding shall conform to the current American Welding Society (AWS) Specifications and be performed by certified welders.

5. Column anchor bolts shall have minimum yield strength of 36 KSI. 6. Metal deck shall be the type as indicated on the drawings. The deck shall be welded to the supporting members per manufacturer's recommendations or as

- indicated on the drawings whichever is more restricting or stringent.
- 7. All openings in metal deck to have 4" X 4" X 1/4" angle frames set between joists. 8. All structural steel and bar joists shall have one shop coat of rust inhibitor primer paint conforming to specification. Field touch up all unpainted areas

and weld areas. 9. Grout for base plates shall be nonmetallic, non-shrinkage cementitious grout having a minimum 3-days compressive strength of 4000 PSI.

10. Reference specifications for additional requirements.

G. SHIPPING / CARGO CONTAINER SPECIFICATION:

1. The shipping / cargo container(s) shall be: a) Undamaged (Free of rust, dents, cracks, et cetera that affect the structural integrity of the container).

c) Design and tested according to the International Organization for Standardization (ISO) specifications.

d) Certified for compliance to the Rules for Certification of Cargo Containers and the International Convention for Safe Containers (CSC) for use as shipping containers by the American Bureau of Shipping (ABS) or other approved Certified Inspection and Testing Agency (CITA). e) Container shall have a CSC safety approval placard (CSC Plate) and CITA logo prior to any modification. f) Walls and roof are continuously welded around its entire periphery and is itself made from sheets of corrugated 14ga. Cor-Ten steel also

continuously welded together. This steel, also used for the side and end walls has a minimum yeild strength of 50ksi and tensile of 70ksi. 2. Prior to construction/modification, Client / Owner / Contractor shall:

a) Provide pictures of high/good quality to PSE showing the following of each container: All four sides

– Roof

— Under framing — Top Rails

– Bottom Rails

— CSC Plate

b) Visually inspect all existing welds for consistency and undamaged.

c) Confirm existing plywood floor sheathing is: - Not damaged, cracked, deformed, delaminated, or showing any other signs that structural integrity has been compromised

- Free of hazardous materials, liquids, and/or stains, or shall be encapsulated.

- Fully fastened to container floor joists per original construction. - If existing plywood floor sheathing needs to be replaced, inform PSE prior to replacing with equivalent pressure/preservative treated OSB

or $\frac{1}{4}$ " steel plate with equivalent or better fastening to container floor joists. d) If possible, provide manufacturer drawings of container to PSE.

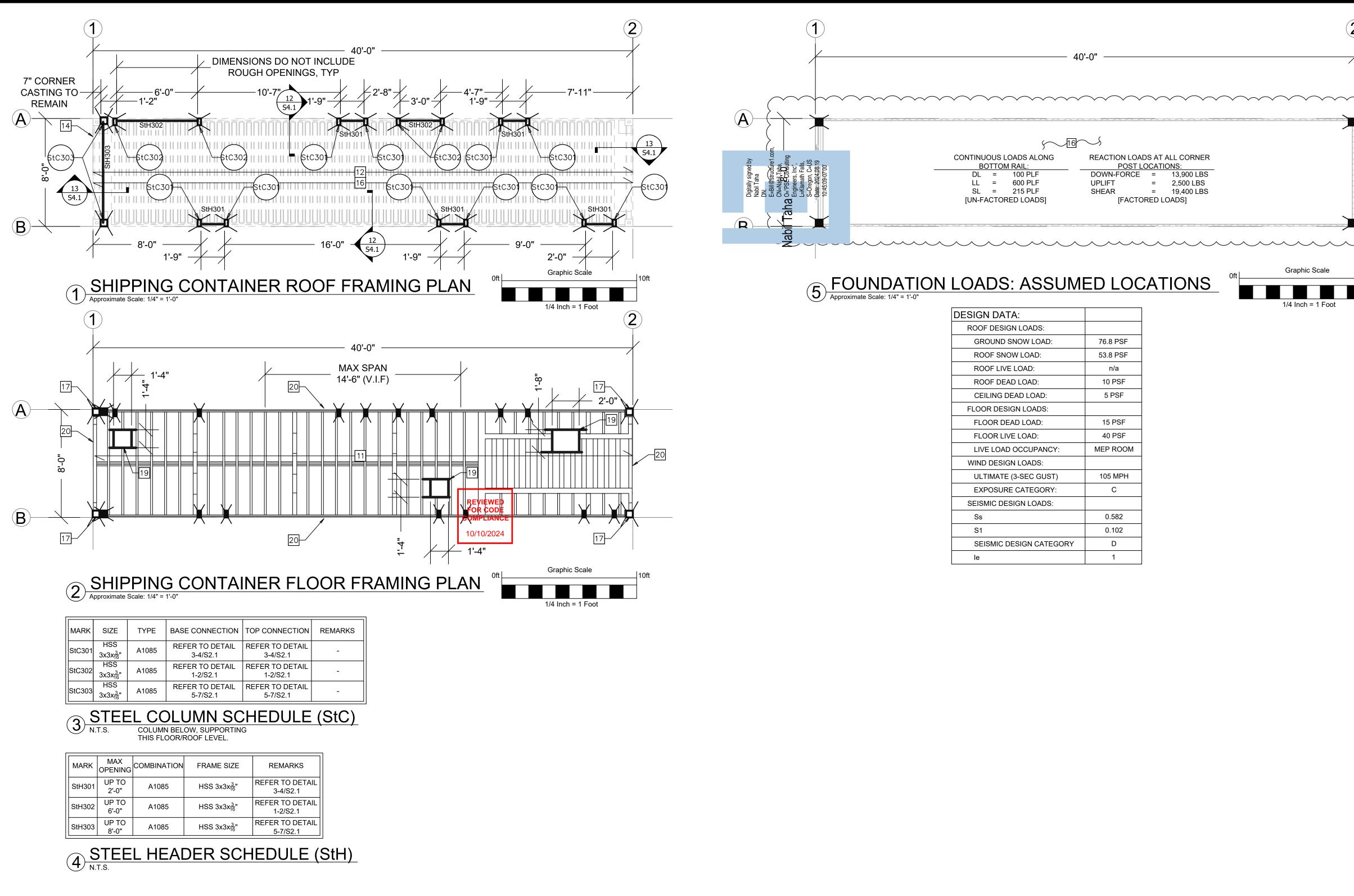
3. Dimensions provided may be the nominal dimensions of the container. Contractor/fabricator, owner, and/or architect to verify actual dimension before construction.

ATIONS:						
INCHOR BOLT IDDITIONAL ILTERNATE MERICAN PLYWOOD ISSOCIATION RCHITECTURAL OTTOM IDOCKING OUNDARY NAIL OTTOM OF FOOTING OUNDARY NAIL OTTOM OF FOOTING CONTROL JOINT R CONTROL JOINT R CONTROL JOINT ENTER LINE ELEAR ONNECTION ONTINUOUS ONTINUOUS OUBLE IMENSION EAD LOAD ITTO (REPEAT)	LW FA FD FEN FF FN FS FTG GALV GC GIR GLB GR HDR HGR HORIZ HSH	FOOTING GALVANIZED GENERAL CONTRACTOR GEOTECHNICAL INVESTIGATION REPORT GLUED LAMINATED BEAM GRADE HEADER HANGER HORIZONTAL	NTS OC OD OFDSC OH OSB OSSC OSV OTOB PERP	DWELLING SPECIALTY CODE OPPOSITE HAND ORIENTED STRAND BOARD OREGON STRUCTURAL SPECIALTY CODE ON SITE VERIFY OUT TO OUT OF BEARING PERPENDICULAR	STGR STIFF T TB TD TG THK TN TOB TOF TOW TYP UBC UON	STAGGER
					,	

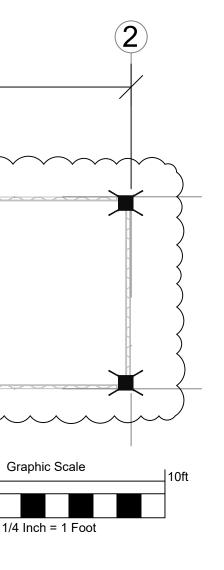
	Æ										
	PSE Consulting Engineers, Inc.										
	www.structure1.com Klamath Falls Office 250 Main										
		Ph F	ama ione ax:	9 e: (5 (54	9760 41) 1) 8)1 85(50-)-63 623	300 33			
		info@structure1.com Medford Office 836 Mason Way									
	Medford OR. 97501 Phone: (541) 858-8500 Fax: (541) 776-4663 infomd@structure1.com										
			10 8								
ON OF PSE, INC.	Lıg Baı Stı	ht G mbc ruct	stri Saug 10, L ural ry, S	e S [.] .0g, Insu	teel Tim Ilate	, St ber/ d Pa	raw Woo anel	Bale od, s/SII			
	Mc Ho Co Co	odula usin ntai mme	ar H g (I ners ercia reen	ome =BH 9, an al or	s/Fa), l(d m Res	icto CF, any ыde	ry E Shif mor ntia	built >pina re!	9		
ITTEN PERN		'nc	्र Aq	ct	:			\$			
UT THE WR			D S	BC hi), pp	In	c. g				
ECT WITHOU		3	86					.,			
THER PROJE	C		ilne								
USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSI	Owner / Client: AquaWorks DBO, Inc.										
IOLE OR PAF	8-19-24										
JSED, IN WH	Canad	PH OP	210	ABI 30	38	A A	KIN	HOODEED	hanne		
NOT TO BE			SI AN	DNA	AL S	N		000	3		
NC. AND IS I	Expires 10/31/2025										
D HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PSE, INC. AND IS N		DATE									
HE PROPERT											
VICE, IS TH	JLE	z									
SIONAL SEF	REVISION SCHEDULE	DESCRIPTION									
OF PROFES®	REVISION	DEG									
STRUMENT		ζK									
, AS AN INS	D	NARK R	- -	/N	В	Y:	M	.R.	D		
D HEREIN	D C	S. HI	K E	ЗY		I.T	•				
ORPORATE	T	ΊT		:		2-2	20	24	1		
SIGNS INCO	N	07	IEI TES	5							
S, AND DE.		A	GE			:					
THE DOCUMENTS, IDEAS, AND DESIGNS INCORPORATE					`) _						
THE DOCUI	P	٩Q) UA	W	OF	RK	sI		80		
	11	чU	, /	_2	, -+ -	<u>ب</u> ر	.0	Ĺ			

		Z	
SHEET INDEX	/.	DESIGN	PAGE NO
S1	GENERAL STRUCTURAL NOTES	AS, AND	\mathbf{C}^{1}
S2 S2.1	CONTAINER FLOOR PLANS CONTAINER DETAILS	INTS, IDE	5
		DOCUMENTS	PROJECT
		THE	AQUAWOR INC., 224-

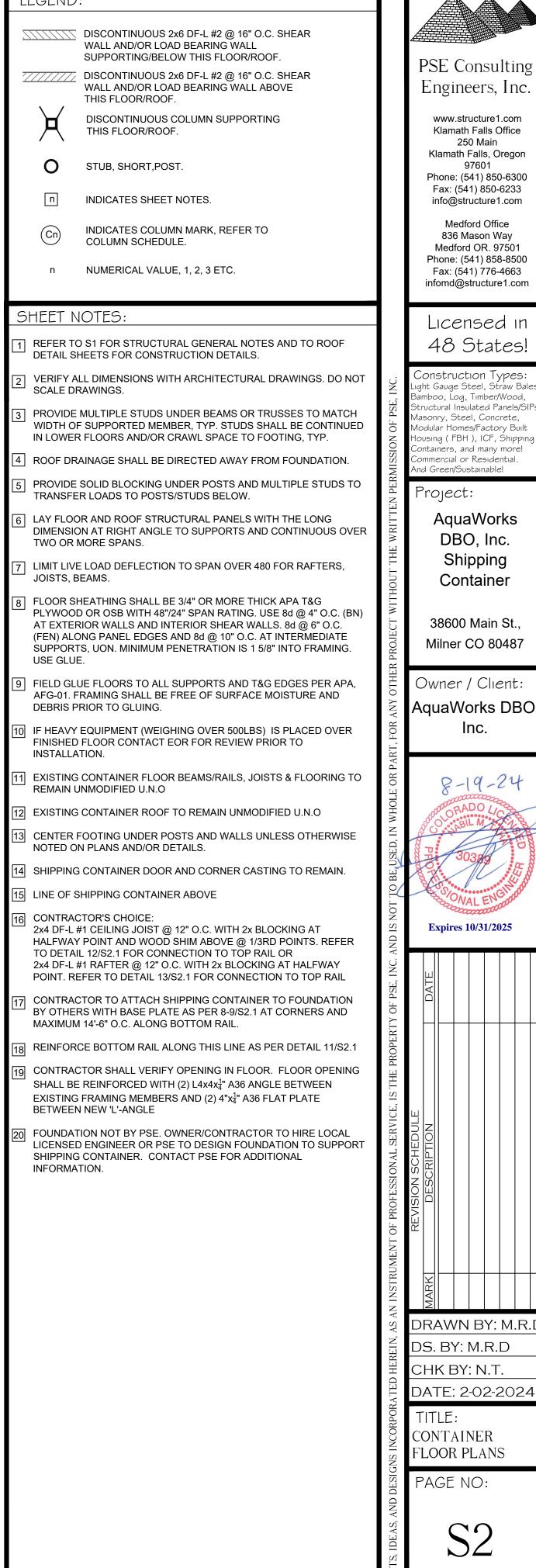
Structural details for this project are for illustration only. They are not drawn to scale unless noted otherwise. Contractor must verify all dimensions before fabrication or construction. Do not scale drawings.



DESIGN DATA:		
ROOF DESIGN LOADS:		
GROUND SNOW LOAD:	76.8 PSF	
ROOF SNOW LOAD:	53.8 PSF	
ROOF LIVE LOAD:	n/a	
ROOF DEAD LOAD:	10 PSF	
CEILING DEAD LOAD:	5 PSF	
FLOOR DESIGN LOADS:		
FLOOR DEAD LOAD:	15 PSF	
FLOOR LIVE LOAD:	40 PSF	
LIVE LOAD OCCUPANCY:	MEP ROOM	
WIND DESIGN LOADS:		
ULTIMATE (3-SEC GUST)	105 MPH	
EXPOSURE CATEGORY:	С	
SEISMIC DESIGN LOADS:		
Ss	0.582	
S1	0.102	
SEISMIC DESIGN CATEGORY	D	
le	1	



LEGEND:



PROJECT #:

AquaWorks DBC INC., 224-2002

