2. Design Shown on PSE drawings does not include: finishes, architectural items, windows, doors, moisture barriers, water proofing, mechanical units, plumbing, or electrical items. 03-2024

FENR ATI-0822 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 engineering 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:

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).

2. Design parameters.

a. Floor Live Load = 40 psf. b. Floor Dead Load = 15 psf. c. Roof Live Load = n/a psf. d. Roof Dead load = 15 psf. e. Ground Snow Load, Pg = 70.1psf. f. Flat Roof snow load = 49.1 psf. g. Snow Exposure Factor, Ce = 1.0h. Snow Load Importance Factor, Is = 1.0

i. Thermal Factor, Ct = 1.0j. Ultimate Wind Speed (3 second gust) = 105 mph k. Wind Importance Factor, lw = 1.0I. Wind Exposure = C m. Internal Pressure Coefficient = 0.85 n. Components and Cladding studs = 38 psf p. Site Class = D o. Seismic Importance Factor, le = 1.0

a. Ss = 0.525r. S1 = 0.097t. Sm1 = 0.232s. Sms = 0.724v. Sd1 = 0.155u. Sds = 0.483

x. Basic Seismic Force Resisting System = Metal Sheathed Shipping Container w. Seismic Design Category = C

y. Design Base Shear = 0.242 * W z. Approximate Fundamental Period, T = 0.104

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:

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.

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.

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"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.

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

— 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.

H. ABBREVIATIONS:

BOF	ANCHOR BOLT ADDITIONAL ALTERNATE AMERICAN PLYWOOD ASSOCIATION ARCHITECTURAL BOTTOM BLOCKING BOUNDARY NAIL BOTTOM OF FOOTING CALIFORNIA 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	EQ ES EW FD FF FN FTG GC GIR GR HGR HORIZ	EQUAL EACH SIDE EACH WAY FRAMING ANCHOR FROST DEPTH FLOOR EDGE NAILING FINISHED FLOOR FIELD/INTERMEDIATE NAILING FAR SIDE FOOTING GALVANIZED GENERAL CONTRACTOR GEOTECHNICAL INVESTIGATION REPORT GLUED LAMINATED BEAM GRADE HEADER HANGER HORIZONTAL HORIZONTALLY SLOTTED HOLES INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER INTERIOR JOINT LEDGER LIGHT GAUGE STEEL, COLD—FORMED STEEL	LL MATL MAX MB MFR MIN. NTL NO. NS NTS OC OFDSC OFDSC OFOSS OFOSS OFOSS OFOSS OFOSS PERP PL PLF PSE PT PW REF REINF	LIVE LOAD MATERIAL MAXIMUM MACHINE BOLT MANUFACTURER MINIMUM METAL NUMBER NEAR SIDE NOT TO SCALE ON CENTER OUTSIDE DIAMETER OREGON ONE & TWO FAMILY DWELLING SPECIALTY CODE OPPOSITE HAND ORIENTED STRAND BOARD OREGON STRUCTURAL SPECIALTY CODE ON SITE VERIFY OUT TO OUT OF BEARING PERPENDICULAR PLATE POUND PER LINEAR FOOT PSE, INC. PRESSURE TREATED PLATE WASHER REFERENCE ROOF EDGE NAILING REINFORCEMENT		RAFTERS STRUCTURAL GENERAL NOTES SEPARATION SIMILAR SHEAR NAIL SNOW LOAD SPECIFICATION STANDARD STAGGER STIFFENERS TOP TOP & BOTTOM TYPICAL DETAILS TONGUE & GROOVE THICKNESS/THICK TOENAIL TOP OF BEAM TOP OF FOOTING TOP OF WALL TYPICAL UNIFORM BUILDING CODE UNLESS OTHERWISE NOTED VERTICAL VERTICAL SLOTTED HOLES WOOD WALL EDGE NAILING WELDED WIRE FABRIC WITH WITHOUT
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22158 County Rd 12, Phippsburg, CO 80469

State of Colorado Division of Housing Jul/23/2024 APPROVED PLANS Subject to field inspection

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CIUILI	NOTES
R PLAN	S
ILS	

PSE Consulting

Engineers, Inc.

www.structure1.com Klamath Falls Office 250 Main Klamath Falls, Oregon Phone: (541) 850-6300 Fax: (541) 850-6233 info@structure1.com

Medford Office 836 Mason Way Medford OR. 97501 Phone: (541) 858-8500 Fax: (541) 776-4663 infomd@structure1.com

Licensed in 48 States!

onstruction Types: ht Gauge Steel, Straw Bal nboo, Log, Timber/Wood, ructural Insulated Panels/SI Masonry, Steel, Concrete, Modular Homes/Factory Built tousing (FBH), ICF, Shippina ontainers, and many more! mmercial or Residential. Green/Sustainable!

Project:

AquaWorks DBO, Inc. Shipping Container

22158 CR 12, Phippsburg, CO

Owner / Client: |AquaWorks DBO

5-22-202 **Expires 10/31/2025**

DRAWN BY: M.R. DS. BY: M.R.D CHK BY: N.T.

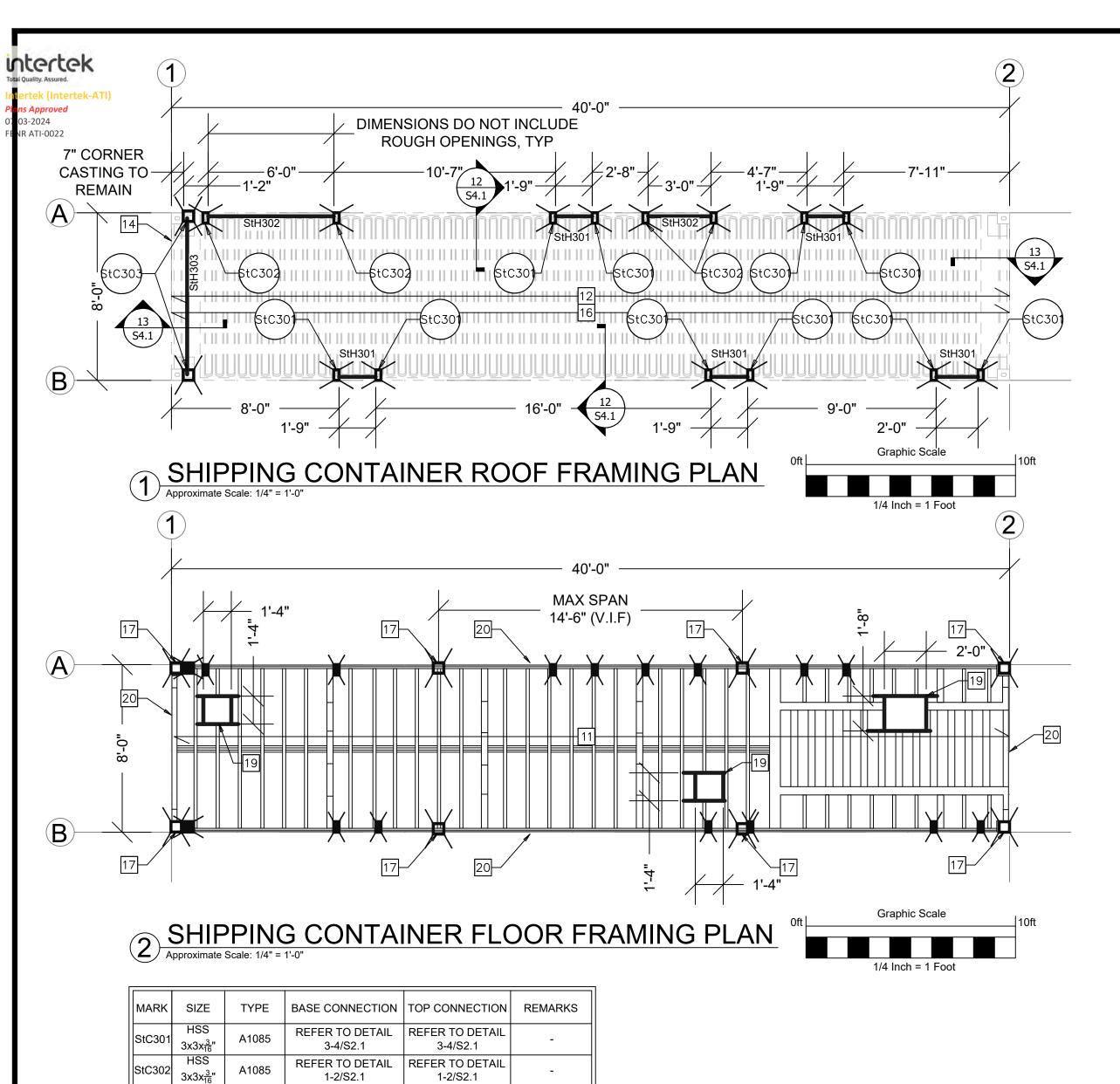
DATE: 2-02-2024

GENERAL NOTES

PAGE NO:

PROJECT #: AQUAWORKS DBC INC., 224-2001

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

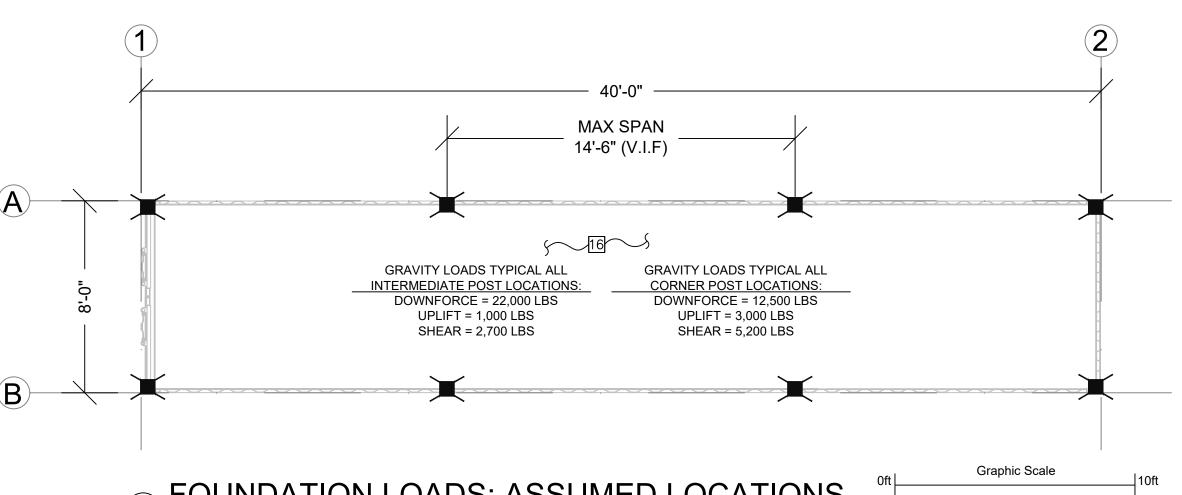


l					
MARK	SIZE	TYPE	BASE CONNECTION	TOP CONNECTION	REMARKS
StC301	HSS 3x3x 3 "	A1085	REFER TO DETAIL 3-4/S2.1	REFER TO DETAIL 3-4/S2.1	-
StC302	HSS 3x3x 3 "	A1085	REFER TO DETAIL 1-2/S2.1	REFER TO DETAIL 1-2/S2.1	-
StC303	HSS 3x3x 3 "	A1085	REFER TO DETAIL 5-7/S2.1	REFER TO DETAIL 5-7/S2.1	-

3 STEEL COLUMN SCHEDULE (StC) N.T.S. COLUMN BELOW, SUPPORTING

MARK	MAX OPENING	COMBINATION	FRAME SIZE	REMARKS
StH301	UP TO 2'-0"	A1085	HSS 3x3x ³ / ₁₆ "	REFER TO DETAIL 3-4/S2.1
StH302	UP TO 6'-0"	A1085	HSS 3x3x ³ / ₁₆ "	REFER TO DETAIL 1-2/S2.1
StH303	UP TO 8'-0"	A1085	HSS 3x3x ³ / ₁₆ "	REFER TO DETAIL 5-7/S2.1
	StH301 StH302	MARK OPENING StH301 UP TO 2'-0" StH302 UP TO 6'-0" StH303 UP TO	MARK OPENING COMBINATION StH301 UP TO 2'-0" A1085 StH302 UP TO 6'-0" A1085 StH303 UP TO 41085	MARK OPENING COMBINATION FRAME SIZE StH301 UP TO 2'-0" A1085 HSS 3x3x ³ / ₁₆ " StH302 UP TO 6'-0" A1085 HSS 3x3x ³ / ₁₆ " StH303 UP TO A1085 HSS 3x3x ³ / ₁₆ "

4 STEEL HEADER SCHEDULE (StH)



DESIGN DATA:	
ROOF DESIGN LOADS:	
GROUND SNOW LOAD:	70.1 PSF
ROOF SNOW LOAD:	49.1 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	0.525
S1	0.097
SEISMIC DESIGN CATEGORY	С
le	1

5 FOUNDATION LOADS: ASSUMED LOCATIONS
Approximate Scale: 1/4" = 1'-0"

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.

DISCONTINUOUS COLUMN SUPPORTING

THIS FLOOR/ROOF.

STUB, SHORT,POST.

INDICATES SHEET NOTES.

INDICATES COLUMN MARK, REFER TO COLUMN SCHEDULE.

n NUMERICAL VALUE, 1, 2, 3 ETC.

SHEET NOTES:

REFER TO S1 FOR STRUCTURAL GENERAL NOTES AND TO ROOF DETAIL SHEETS FOR CONSTRUCTION DETAILS.

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.

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. ROOF DRAINAGE SHALL BE DIRECTED AWAY FROM FOUNDATION.

PROVIDE SOLID BLOCKING UNDER POSTS AND MULTIPLE STUDS TO TRANSFER LOADS TO POSTS/STUDS BELOW.

LAY FLOOR AND ROOF STRUCTURAL PANELS WITH THE LONG DIMENSION AT RIGHT ANGLE TO SUPPORTS AND CONTINUOUS OVER TWO OR MORE SPANS.

LIMIT LIVE LOAD DEFLECTION TO SPAN OVER 480 FOR RAFTERS, JOISTS, BEAMS.

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.

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.

IF HEAVY EQUIPMENT (WEIGHING OVER 500LBS) IS PLACED OVER FINISHED FLOOR CONTACT EOR FOR REVIEW PRIOR TO INSTALLATION.

EXISTING CONTAINER FLOOR BEAMS/RAILS, JOISTS & FLOORING TO REMAIN UNMODIFIED U.N.O

12 EXISTING CONTAINER ROOF TO REMAIN UNMODIFIED U.N.O

3 CENTER FOOTING UNDER POSTS AND WALLS UNLESS OTHERWISE NOTED ON PLANS AND/OR DETAILS.

14 SHIPPING CONTAINER DOOR AND CORNER CASTING TO REMAIN.

15 LINE OF SHIPPING CONTAINER ABOVE

G CONTRACTOR'S CHOICE: 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 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

7 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.

REINFORCE BOTTOM RAIL ALONG THIS LINE AS PER DETAIL 11/S2.1

G CONTRACTOR SHALL VERIFY OPENING IN FLOOR. FLOOR OPENING SHALL BE REINFORCED WITH (2) $L4x4x_4^{-1}$ A36 ANGLE BETWEEN EXISTING FRAMING MEMBERS AND (2) 4"x4" A36 FLAT PLATE BETWEEN NEW 'L'-ANGLE

TOUNDATION NOT BY PSE. OWNER/CONTRACTOR TO HIRE LOCAL LICENSED ENGINEER OR PSE TO DESIGN FOUNDATION TO SUPPORT SHIPPING CONTAINER. CONTACT PSE FOR ADDITIONAL INFORMATION.

> State of Colorado Division of Housing Jul/23/2024

APPROVED PLANS Subject to field inspection

CONTAINER FLOOR PLANS

DRAWN BY: M.R.I

DATE: 2-02-2024

DS. BY: M.R.D

CHK BY: N.T.

PSE Consulting

Engineers, Inc.

www.structure1.com

Klamath Falls Office 250 Main Klamath Falls, Oregon

97601 Phone: (541) 850-6300 Fax: (541) 850-6233

info@structure1.com

Medford Office

836 Mason Way

Medford OR. 97501

Phone: (541) 858-8500

Fax: (541) 776-4663 infomd@structure1.com

Licensed in

48 States!

nstruction Types:

t Gauge Steel, Straw Bal

boo, Log, Timber/Wood, uctural Insulated Panels/SIF

sonry, Steel, Concrete,

Green/Sustamable!

AquaWorks

DBO, Inc.

Shipping

Container

22158 CR 12,

Phippsburg, CO

Owner / Client:

AquaWorks DBO,

Inc.

5-22-202

Expires 10/31/2025

Project:

dular Homes/Factory Built

ısıng (FBH), ICF, Shippina itainers, and many more! nmercial or Residential.

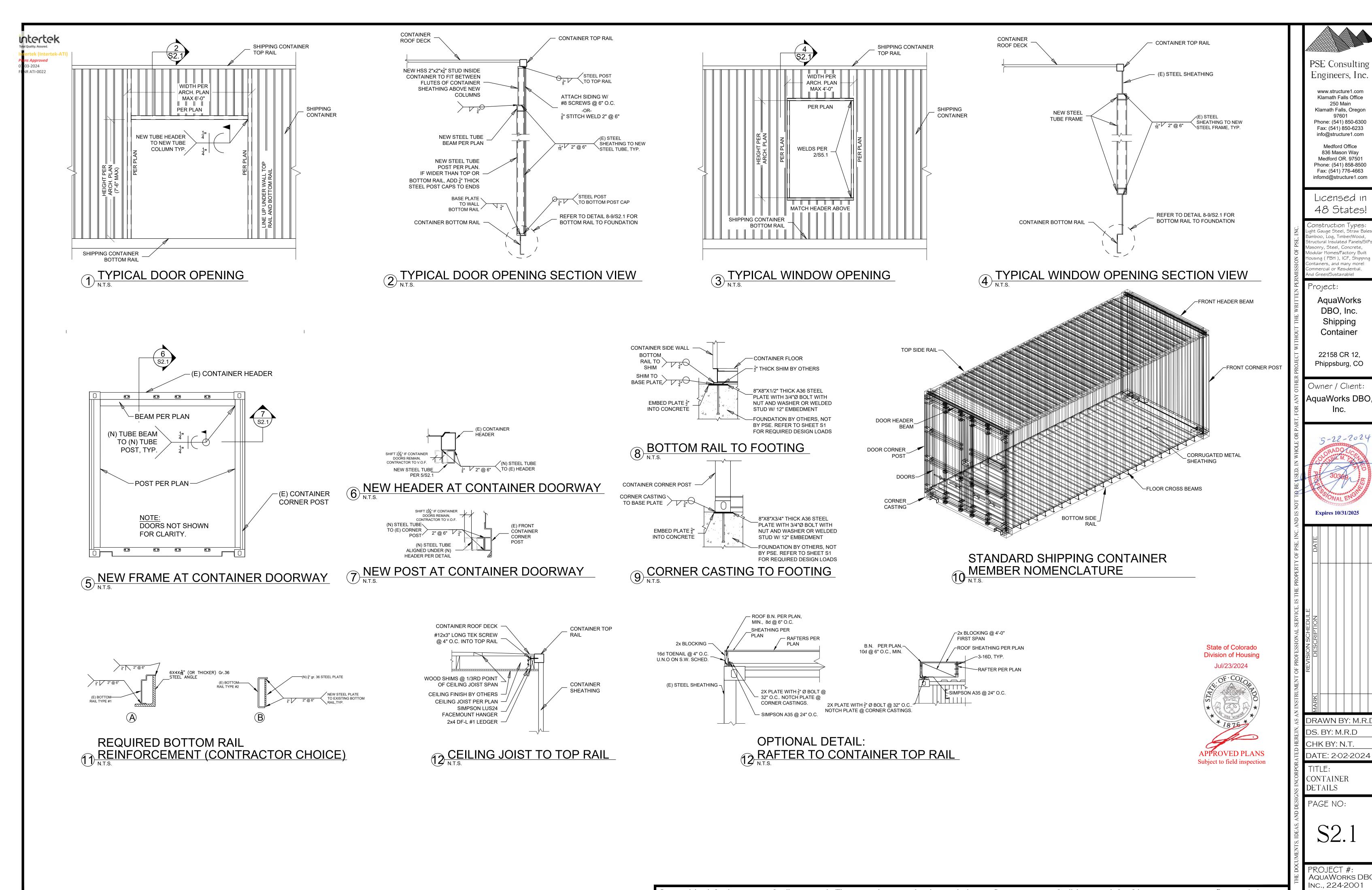
PAGE NO:

PROJECT #: AQUAWORKS DBC

INC., 224-2001

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Maverick



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

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

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 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.

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-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.

h. Snow Load Importance Factor, Is = 1.0

n. Components and Cladding studs = $21.71 \, \text{psf}$

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

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 quarantee 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:

1. All design, material, and construction work for this project shall conform to the 2022 Colorado State Building Code

 \tilde{I} . Wind Exposure = C

p. Site Class = D

r. S1 = 0.097

t. Sm1 = 0.233

v. Sd1 = 0.155

based on the 2021 International Building Code (IBC). 2. Design parameters.

a. Floor Live Load = 40 psf. b. Floor Dead Load = 15 psf. d. Roof Dead load = 15 psf. c. Roof Live Load = n/a psf.

e. Ground Snow Load, Pg = 70.1psf. f. Flat Roof snow load = 49.1 psf.

g. Snow Exposure Factor, Ce = 1.0Thermal Factor, Ct = 1.0

k. Wind Importance Factor, lw = 1.0

m. Internal Pressure Coefficient = 0.85

o. Seismic Importance Factor, le = 1.0 q. Ss = 0.525

s. Sms = 0.725

u. Sds = 0.483w. Seismic Design Category = C

y. Design Base Shear = 0.242 * W

x. Basic Seismic Force Resisting System = LIGHT FRAME WALLS WITH SHEAR PANELS z. Approximate Fundamental Period, T = 0.104

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.

g. High-strength bolting. n. 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.

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.

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"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

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. WOOD: GENERAL:

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 framing 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.

MATERIALS

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 grading 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.

1. Top plates or chords shall be continuous over headers UON.

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

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.... b. Bridaina to joist, toenail each end....

c. Sill plate to joist or blocking, typical, face nail [SN].... ..16d at 6" o.c. d. Double top plates:

 Lower plate to studs • Top plate to lower plate, face nail.. ..16d @ 12" O.C. • Top plate to lower plate at lap Splice [4'-0" minimum]... ...20—16d minimum UON on drawings.

• Top plate to lower plate at intersection.. ..4-8d toenails or 2-16d endnail. 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 ..16d @ 16" o.c. along each edge. h. Continuous header, two pieces.... i. Ceiling joists to plate, toenail...

k. Ceiling joists, laps over partitions, face nail.. .3-16d I. Ceiling joists to parallel rafters, face nail... ..3–16d ..16d @ 12" o.c. m.Built-up corner studs... ...8d @ 4" O.C. @ 3/8" from all panel n. 5/8" gyp. Sheathing to studs, sill plates & top plates....

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 $\frac{7}{6}$ diameter crown width. For roof and floor, staple spacing shall be per plan. For shear wall, spacing should be

edges and 8" O.C. @

4-8d

p. Staples for structural insulated panels, sips shall be per sips notes. q. NOTES: REF: To the above Building Code.

. Continuous header to stud, toenail..

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

State of Colorado Division of Housing Jul/23/2024 APPROVED PLANS Subject to field inspection

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

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.

PSE Consulting Engineers, Inc. www.structure1.com

Klamath Falls Office

250 Main

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836 Mason Way Medford OR. 97501 Phone: (541) 858-8500 Fax: (541) 776-4663 infomd@structure1.com

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onstruction Types: ht Gauge Steel, Straw Bal nboo, Log, Timber/Wood, uctural Insulated Panels/SI asonry, Steel, Concrete. Modular Homes/Factory Built ousing (FBH), ICF, Shippina ntainers, and many more! mmercial or Residential. Green/Sustainable!

Project:

AquaWorks DBO, Inc. Screen Building

22158 County Rd 12, Phippsburg, Colorado.

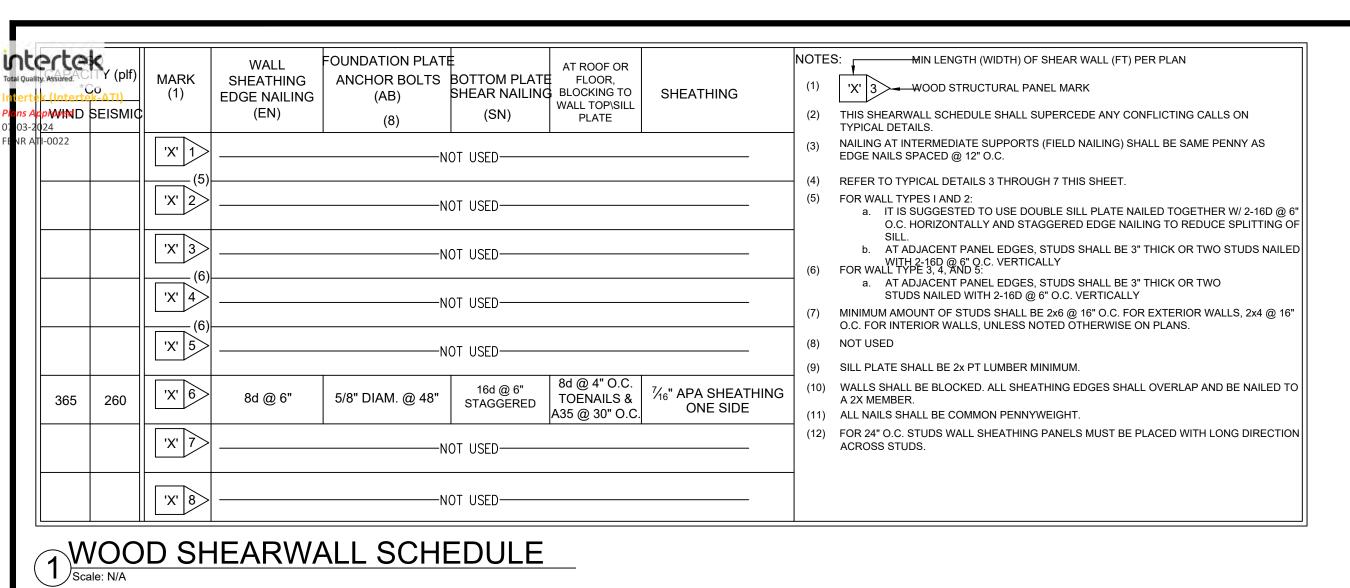
Owner / Client: |AquaWorks DBO Inc.

5-22-202 **Expires 10/31/2025**

DRAWN BY: AYPN DS. BY: M.R.D CHK BY: N.T. DATE: 04-06-202

GENERAL STRUCTURAL NOTES PAGE NO:

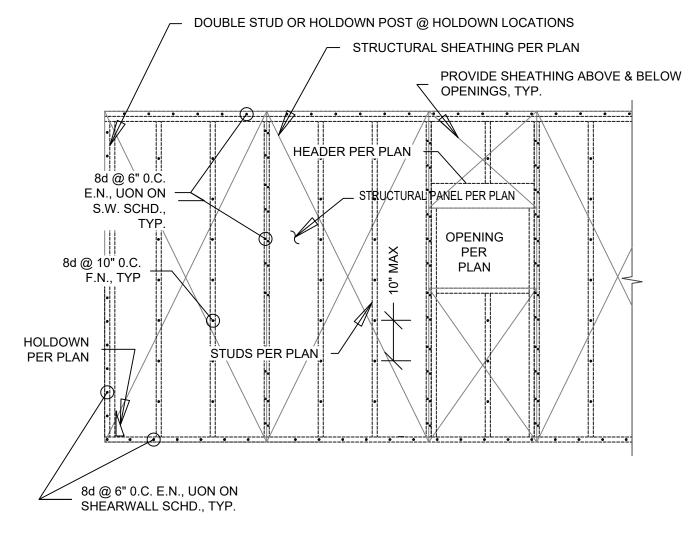
PROJECT #: AQUAWORKS DBC INC., 224-2001

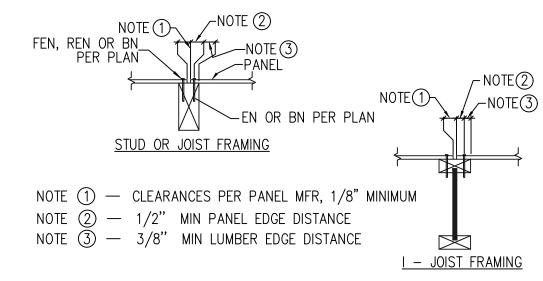


EDGES (in. min.) CAPACITY ANCHOR BOLT | EMBED MIN. STEMWALL HOLDOWN HOLDOWN NOTES LENGTH (lbs.) ASD MARK **BRACKET** WIDTH (f'c=2500 psi min) CORNER END EDGE 2 - 2x STUDS 41/4" 1¾" 4,565 HDU4 HDU4-SDS2.5 SB%x24 OR 1 - 4x POST 1 - 2x STUDS USE MAX. 1,705 N/A N/A CS16 OR N/A N/A N/A N/A NAILING PER CS16 1 - 4x POST MNFR.

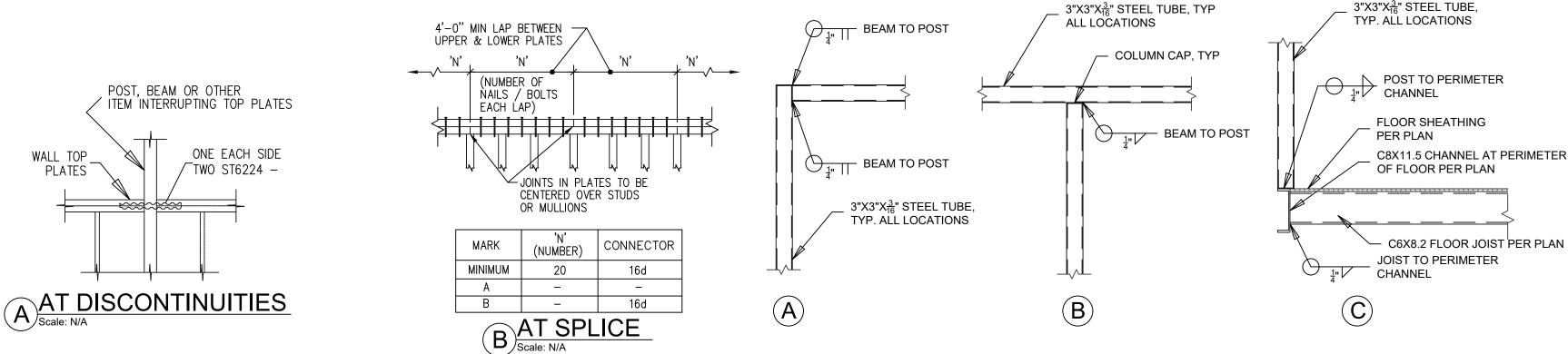
NOTE: IT MAY BE NECESSARY TO THICKEN THE FOOTING BELOW SOME ANCHORS TO PROVIDE REQ. EMBED LENGTH AND CLEAR SPACING. HOLDOWN SCHEDULE

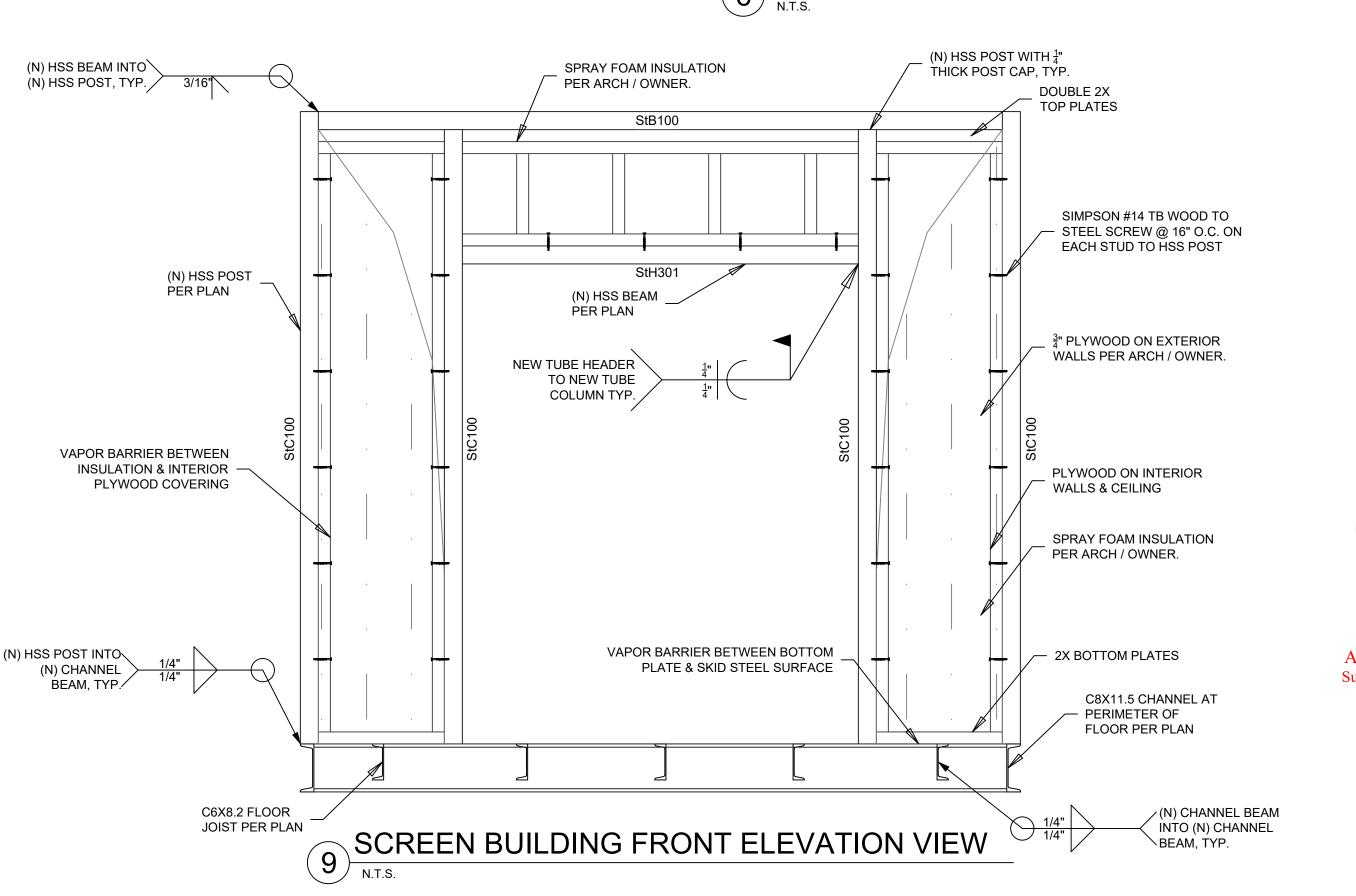
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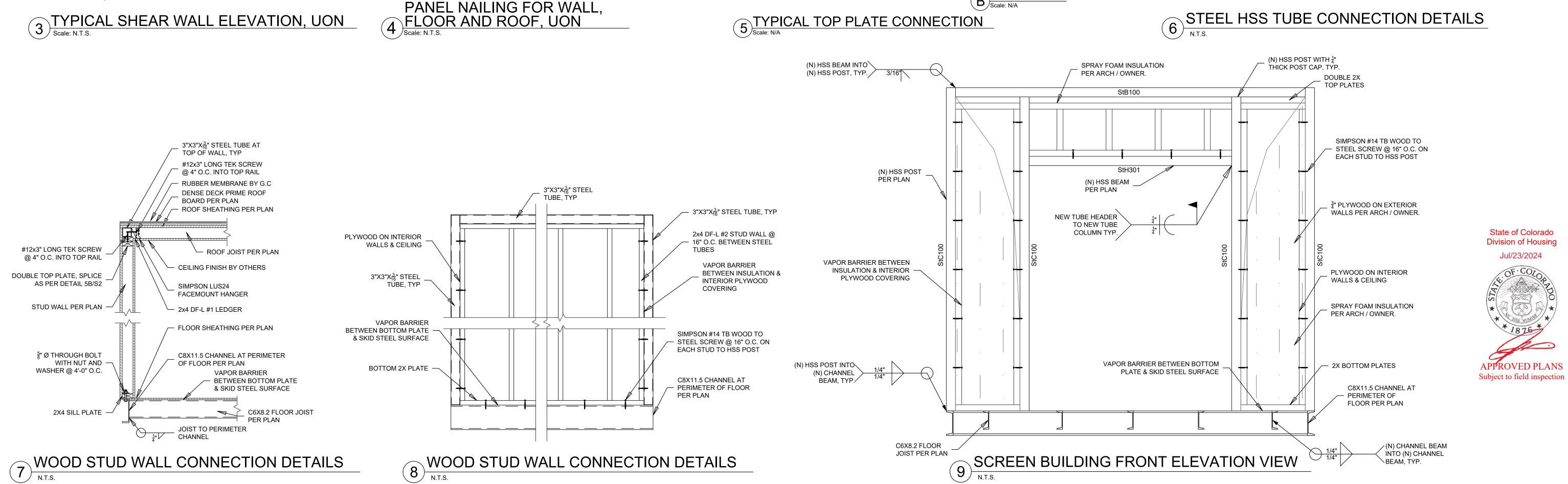




TYPICAL WOOD STRUCTURE PANEL NAILING FOR WALL,







PSE Consulting Engineers, Inc.

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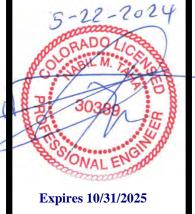
ıt Gauge Steel, Straw Bal boo, Log, Timber/Wood, uctural Insulated Panels/SI sonry, Steel, Concrete, odular Homes/Factory Built ousing (FBH), ICF, Shippir ntainers, and many more! nmercial or Residential. Green/Sustainable!

Project:

AquaWorks DBO, Inc. Screen Building

22158 County Rd 12 Phippsburg, Colorado.

Owner / Client: AquaWorks DBO Inc.



DRAWN BY: AYPN DS. BY: M.R.D

CHK BY: N.T. DATE: 04-06-202

TYPICAL DETAILS

Inc., 224-2001

PAGE NO:

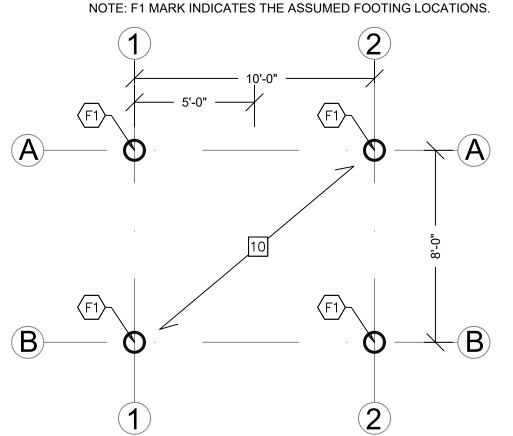
PROJECT #: AQUAWORKS DB0

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ns Approved

03-2024

FENR ATI-0022



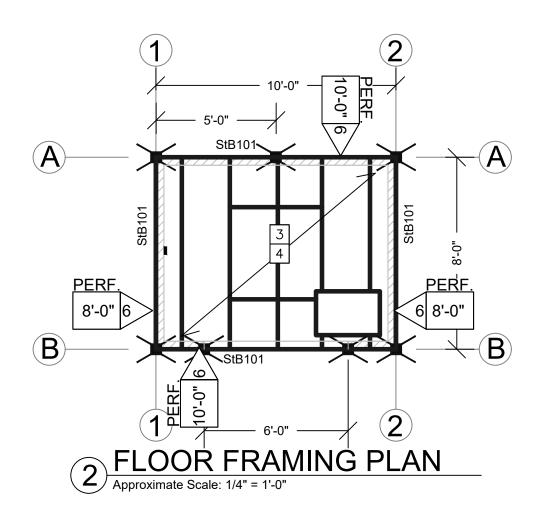
NOTE: F1 MARK INDICATES THE ASSUME FOR INCLUDING LATERAL LOA ALL CORNER POST LOCA DOWNFORCE = 4191 I UPLIFT = 996 L SHEAR = 1251 l

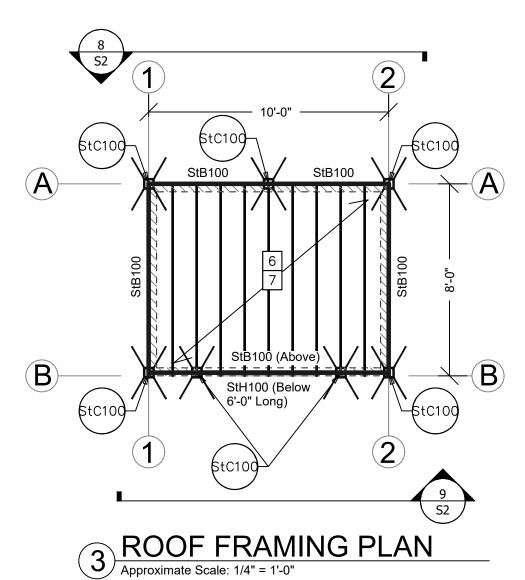
SUMMARY OF REACTIONS AT FOR LRFD LOAD COM

	ROOF DESIGN LOADS:				
	GROUND SNOW LOAD:	70.1 PSF			
	ROOF SNOW LOAD:	70 PSF			
	ROOF LIVE LOAD:	20 PSF			
MED FOOTING LOCATIONS.	ROOF DEAD LOAD:	15 PSF			
DADS TYPICAL	CEILING DEAD LOAD:	5 PSF			
CATIONS:	FLOOR DESIGN LOADS:				
1 LBS 5 LBS	FLOOR DEAD LOAD:	15 PSF			
LBS	FLOOR LIVE LOAD:	40 PSF			
AT FOOTING POINTS	LIVE LOAD OCCUPANCY:	RESIDENTIAL			
MBINATION	WIND DESIGN LOADS:				
	ULTIMATE (3-SEC GUST)	105 MPH			
	EXPOSURE CATEGORY:	С			
	SEISMIC DESIGN LOADS:				
	Ss	0.525			
	S1	0.097			
	SEISMIC DESIGN CATEGORY	С			
	le	1.0			

DESIGN DATA:

FOUNDATION LOADS: ASSUMED LOCATIONS





MARK	SIZE	MATERIAL	CAMBER (INCH)	REMARKS
StB100	HSS 3X3X ³ / ₁₆ "	A1085	_	MAIN STRUCTURE BOX FRAME
StB101	C8X11.5	A36	_	BOTTOM DECK FRAME
StB102	C6X8.2	A36	_	BOTTOM DECK FRAME

4 STEEL BEAM SCHEDULE (StB)

MARK	SIZE	TYPE	BASE CONNECTION	TOP CONNECTION	REMARKS
StC100	HSS 3x3x 3 "	A1085	REFER TO DETAIL 6/S2	REFER TO DETAIL 2/S2	-

5 STEEL COLUMN SCHEDULE (StC)

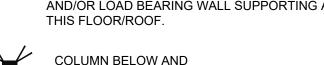
MARK	MAX OPENING	COMBINATION	FRAME SIZE	REMARKS
StH100	UP TO 6'-0"	A1085	HSS 3x3x 3 "	REFER TO DETAIL 9/S2

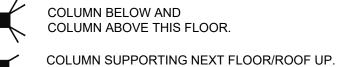
6 STEEL HEADER SCHEDULE (StH)

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





DISCONTINUOUS COLUMN SUPPORTING THIS FLOOR/ROOF. VERTICAL WINDOW FRAMING STUB POST, NOT FULL

INDICATES HOLD-DOWN MARK, REFER TO HOLD -DOWN SCHEDULE.

INDICATES SHEET NOTES.

INDICATES COLUMN MARK, REFER TO COLUMN SCHEDULE.

NUMERICAL VALUE, 1, 2, 3 ETC.

SHEET NOTES:

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.

VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.

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 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 ARCH DRAWING & DIMENSIONS, SEE 1-3/S3 FOR MORE DETAILS.

ROOF DRAINAGE SHALL BE DIRECTED AWAY FROM FOUNDATION.

2x4 DF-L #1 RAFTER @ 12" O.C. WITH 2x BLOCKING AT HALFWAY POINT AND WOOD SHIM ABOVE @ 1/3RD POINTS. REFER TO DETAIL

RUBBER MOISTURE BARRIER ABOVE $\frac{1}{2}$ " 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.

8 ALL EXTERIOR WALLS SHALL BE TYPE 6 PER SHEAR WALL PER SHEAR WALL SCHEDULE UNLESS OTHERWISE NOTED ON PLANS.

9 IF HEAVY EQUIPMENT (WEIGHING OVER 500LBS) IS PLACED OVER FINISHED FLOOR CONTACT EOR FOR REVIEW PRIOR TO INSTALLATION.

> State of Colorado Division of Housing Jul/23/2024

APPROVED PLANS

Subject to field inspection

FOUNDATION, BASE PLATE, ANCHOR BOLT DESIGN BY OTHERS. FOR THE FOUNDATION BASE NODE REACTIONS REFER SHEET 1/S3. CONTACT PSE FOR ADDITIONAL INFORMATION.

PSE Consulting Engineers, Inc.

> www.structure1.com Klamath Falls Office 250 Main Klamath Falls, Oregon 97601 Phone: (541) 850-6300 Fax: (541) 850-6233 info@structure1.com

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Expires 10/31/2025

DRAWN BY: AYPN DS. BY: M.R.D CHK BY: N.T.

DATE: 04-06-2024

FRAMING PLANS & DETAILS PAGE NO:

PROJECT #: AQUAWORKS DBC INC., 224-2001

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4/16/2024 3:32 PM