SPECIFICATIONS **FOR SIUSLAW PUMP STATION**
GENERATOR ADDITION   CANNON BEACH OREGON

GENERAL REQUIREMENTS

A. Construction Type: Wood framed Type V B

B. Occupancy Group: U △1

C. Foundation System: Reinforced concrete.

D. Construction to meet local and State codes:

E. OSSC 2022 △1

F. International Residential Code

G. NFPA

H. OSHA

I. Mechanical Code

J. Electrical Code

DELEGATED DESIGN REQUIREMENTS

A. Delegated Design Engineered Components: Delegated Design Engineered components known at this time to require structural review and submittal:

B. Pre-manufactured Trusses △1

C. Wood I Joists

D. Plumbing Systems

E. Mechanical Systems

F. Electrical Systems

G. Fire Detection and Alarm

H. Design drawings and structural calculations to bear seal and signature of licensed Professional Engineer in State which project is located.

QUALITY REQUIREMENTS

A. Scope:

B. Quality control services include inspections, tests, and related actions, including reports performed by Contractor, by independent agencies, and by governing authorities. Requirements do not include Contract enforcement activities performed by Architect.

C. Perform Field Test on Mock-up when elected by Owner.

D. Comply with requirements of 2022 Oregon Structural Specialty Code. △1

E. See Structural Notes

TEMPORARY TREE AND PLANT PROTECTION

A. Protect existing trees to remain on or near project site from damage due to construction activities.

SELECTIVE DEMOLITION AND EXCAVATION

A. Salvage and recycling all materials as feasible.

B. Remove slabs and asphaltic paving, concrete foundations, abandoned utilities, and dispose off site.

C. Protect all public utilities from damage due to construction activities.

~~D. Remove the above -ground heating oil tank from garage.~~ △1

CAST-IN-PLACE CONCRETE

A. Provide foundation walls and footings as indicated on drawing, Structural Notes, and detail drawings.

B. Formwork: Any standard products with sufficient strength to withstand hydrostatic head without distortion in excess of permitted tolerances.

C. Standard Reinforcing Bars: ASTM A 615/A 615M, Grade 60.

D. Galvanizing: ASTM A767/A 767M, Class I.

E. Epoxy Coating: ASTM A 775/A 775M.

F. Weldable Reinforcing Bars: ASTM A 706/A 706M, deformed low-alloy steel bars.

G. Weldable Steel Mat: ASTM A 704/A 704M, using ASTM 615/A 615M Grade 60 steel bars or rods,unfinished.

H. Stirrup Steel: ASTM A 82 steel wire, finish matching reinforcing bars.

I. Fabrication of Reinforcement: Comply with ACI SP-66.

J. Cement: ASTM C 150, Type I - Normal.

K. Normal Weight Aggregates: ASTM C 33

L. Fiber Reinforcement: Alkai-resistant glass fiber; ½-inch length.

M. Water: Clean and not detrimental to concrete.

N. Normal Weight Concrete: Proportions in compliance with ACI 211.1, recommendations

O. Establish required average strength for each type of concrete based on field experience or trial mixtures, as specified in ACI 301.

P. Strength: Minimum 3,000 PSI unless noted otherwise in Structural Notes.

Q. Allowable Slump: 5-inches unless noted otherwise in Structural Notes.

PLACING AND FINISHING CONCRETE:

A. Place concrete in accordance with ACI 304R.

B. Place and finish concrete for floor slabs in accordance with ACI 302.1R - Troweled Finish △1

C. Do not interrupt successive placement; do not permit cold joints to occur.

ROUGH CARPENTRY

A. Lumber Standards:

B. Comply with PS 20 and grading rules of West Coast Lumber Inspection Bureau (WCLB), Western Wood Products Association (WWPA).

C. Provide dressed lumber, S4S, unless rough lumber is specifically indicated.

D. Moisture content 19 percent maximum, except as otherwise indicated for particular members.

E. Concealed Dimension Lumber Studs: Douglas fir-larch, Douglas fir, or hem-fir, No. 2.

F. Joists, Rafters, Posts, and Small Beams (Sizes Up to 4 x 16):

G. Machine stress-rated (MSR) as follows:

(1) Minimum Extreme Fiber Stress in Bending (Fb): 1350 psi.

(2) Minimum Modulus of Elasticity (E): 1,300 ksi.

H. Douglas fir-larch, Douglas fir, or hem-fir, no. 2.

I. Exposed Dimension Lumber:

J. Studs: Provide Douglas fir-harch, douglas fir, hem-fir, no. 2 preservative-treated.

K. Joists, Rafters, Posts, and Small Beams (Sizes Up to 4 x 16):

L. Species: Provide Douglas fir-harch, douglas fir, hem-fir, no. 2 preservative-treated.

M. Subfloor/Underlayment Combination: APA Rated Sturd-I-Floor; Exposure Class Exterior; span rating of 16 in on center; tongue and groove edges.

N. APA Rated Subflooring: Exposure Class Exterior; span rating of 32/16 in.

O. Particleboard Subflooring: ANSI A208.1, Grade M-2 exterior glue waferboard; ½ in thickness; square edge.

P. APA Rated Roof Sheathing: Exposure Class Exterior, Structural I; span rating of 24/0 in.

Q. APA Rated Wall Sheathing: Exposure Class Exterior, Structural I; span rating of 24/0 in.

R. Joist Hangers: Hot dipped galvanized steel, G185 - interior. Type 304 stainless steel or ZMAX - exterior.

S. Wood Treatment: Comply with AWPA U1.

T. Fire Retardancy: Pressure impregnated chemical treatment; Use Category UCFA for interior, UCFB for exterior. Where noted.

U. Preservative Pressure Treatment: Borate preservative.

V. Treat furring in rainscreen system. Where noted.

W. Preservative Pressure Treatment: AWPA Use Category UC3B, Commodity Specification A (Treatment C2) using waterborne preservative to 0.25 lb/cu ft retention, CCA or ACQ.

X. Pressure treat cants, nailers, blocking, curbs, equipment support bases, stripping and similar items in association with roofing and flashing.

WOOD I JOISTS

A. Wood chord and plywood web "I" joists for floor / roof framing engineered by contractors supplier.

B. Manufacturer: Wood "I" joists by Weyerhaeuser or Boise Cascade.

GLUE-LAMINATED BEAMS

A. Glue-laminated beams.

B. Appearance Grade: Industrial unless otherwise noted.

C. Comply with ANSI/AITC A190.1.

D. Combination Symbol: 24-F-X4 DF/DF at simple spans and 24-F-V8 DF/DF at multiple and cantilever spans, conforming to WWPA grading rules with 12 percent maximum moisture content before fabrication.

E. Adhesive: Wet use

Exterior Architectural woodwork

A. Scope: Exterior standing and running trim.

B. Wood Species: Western Red Cedar. Select Structural Western Red Cedar.

C. Appearance: Resawn

INTERIOR ARCHITECTURAL WOODWORK

A. Scope: Interior Trim △1

B. Standards: Comply with AWI Custom quality standards.

C. Finish: as selected by Owner.

~~D. Wood Species: Match existing house.~~ △1

BITUMINOUS DAMPPROOFING

A. Scope: Cold-applied asphalt emulsion dampproofing as indicated on drawings.

B. Cold-Applied Asphalt Dampproofing Mastic: Asphalt roof cement complying with ASTM D 4586, Type I.

C. MATERIALS: BITUMINOUS DAMPPROOFING. COMPLY WITH ASTM D1227, TYPE III OR IV.Manufacturers: Chem RexInc, Kamak Chemical Ccroporation, W.R. Meadows Inc., or approved.

SOUND ATTENUATION INSULATION

A. Owens Corning sound attenuation batting or equal.

~~C. Faced Batt Insulation: R-VALUE: AS SCHEDULED ON DRAWINGS. MAXIMUM 1.0 PERMEABILITY.~~ △1

FOAMED-IN-PLACE INSULATION

BASF Polyurethane Foam Enterprises LLC: www.foamenterprises.com. BIOBASED SYSTEMS, LLC: PRODUCT: BIOBASED 501; WWW.BIOBASED.NET. DEMILEC USA; PRODUCT: SEALECTION 500; WWW.SEALECTION500.COM

BUILDING PAPER WEATHER BARRIERS

A. ASPHALT SATURATED FELT, NON-PERFORATED BREATHER TYPE PAPER: ASTM D226, TYPE I, GRADE D, STYLE 2. TWO PLY JUMBOTEX.

B. Fortifiber Building Systems Group: Product: Super Jumbo Tex; www.fortifiber.com. Or approved

C. Water Hold Out: ASTM D-779; 60 minutes.

D. Vapor Permeability: ASTM E96; 11 grams.

E. Tensile Strength: ASTM D-828; MD=70 lb f/inch and CD=60 lb f/inch.

F. Sealant: Moistop Sealant or type approved by manufacturer for application.

G. Sealing Tape: Type recommended by manufacturer.

H. Fasteners: Galvanized nails or screws with large heads or plastic washer heads.

SELF-ADHERED MEMBRANE FLASHING

A. Sheet Membrane Flashing:

B. Locations: Opening penetrations and as indicated:

C. General:

(1) Reinforced polyethylene-faced, rubberized, self-adhesive membrane.

(2) Thickness: 25 mils. Includes removable release film protecting adhesive surface.

D. Manufacturers:

(1) Henry Company; Product: BlueSkin TWF; www.henry.com.

(2) International Building Components; Product WaterBlock - 40; www.waterblocksystems.com.

(3) Fortifiber Building Systems Group, FortiFlash; www.fortifiber.com

E. Surface Conditioners/Primers: High-tack SBS rubber based primer or as recommended by manufacturer.

F. Fasteners: Stainless steel.

G. Detailing Compounds: Liquid membrane, 1 or 2 component sealants or mastics supplied by membrane manufacturer intended for detailing around penetrations and at lapped seams.

WOOD SIDEWALL SHINGLES

A. Sidewall shingles manuf. by Cedar Shingle Bureau. Certi-Sawn Tapersaw Shakes

B. Wood Shingles: Western Red Cedar, CSSB No.1 Grade, Blue Label. Member mill.

C. Size: 16 inches long.

D. Exposure: 6" unless otherwise noted.

E. Pressure fire retardant treated; Class C, where required.

F. Nails: Standard round wire shingle type, stainless steel of sufficient length to penetrate through wall sheathing.

G. Metal Flashings: Provide stainless steel sheet metal flashing as indicated. △1

COMPOSITION ROOF SHINGLES ~~(NOT USED)~~ △1

A. Composition roof shingles manuf. by IKO - Certainteed EQ alt.

B. Composition Shingles: Dynasty or Cambridge Architectural. Color as selected by Owner. Min 30yr warranty

C. Design Wind Speed: 130 mph

D. Exposure On Roofs: Not more than that recommended by Manuf. for roof slope and type of underlayment used.

E. Ridge and Hip Caps: Prefabricated lapped single ply units of matching quality and thickness.

F. Valleys: Open, with shingles cut for straight edge.

G. Roofing Membrane: All roofs to have full ice/water self adhered membrane.

H. Nails: Standard round wire shingle type, aluminum or hot-dipped zinc coated steel, of sufficient length to penetrate through roof sheathing or ¾ inch into roof sheathing or decking.

I. Plastic Cement: ASTM D 4586, asphalt roof cement.

J. Ridge Vents: Per roofing selected

K. Metal Flashings: Provide stainless steel sheet metal eave edge, gable edge, ridge, open valley flashing, dormer flashing, and other flashing indicated.

L. Bituminous Paint: Acid and alkali resistant type; black color

SHEET METAL FLASHING AND TRIM

A. Stainless Steel Sheet: ASTM A 666. Type 304.

B. Medium Weight: 0.015 inch thick

C. Copings, Fascia and exposed Trim: stainless steel medium weight specified above.

D. Joints: Sealed with sealant; interlocking seams providing movement at maximum 10 feet on center.

JOINT SEALERS

A. Silicone Sealant:Single-component, non-sag, joint movement range 50-100 percent in extension and 50 percent in compression.Dow Corning 790 or 795

B. Polyurethane Sealant:Two-component, non-sag, joint movement range 50 percent in extension and compression:Mameco Vulkem 922, Pecora Dynatrol II, Sonolastic NP2, Trimco 511

C. Foam Air-Infiltration Sealant: Grace Polycel One, DAP Kwik Foam, Silicone Rubber Sealant: Single-component, architectural grade. Dow Corning 786, Tremco Proglaze

D. At openings and joints in exterior walls: Silicone sealant.

E. At opening and joints in interior walls: Polyurethane sealant.

F. At electrical boxes and exterior walls where insulation is interrupted: Foam air-infiltration sealant.

G. At toilet fixture joints: Silicone rubber sealant.

H. Warranty: 5-years.

DOORS

~~A. Exterior Front Entry Door: Wood~~ △1

B. Exterior Doors: Epoxy painted steel

C. Interior Doors: Epoxy painted K.D. steel frames

D. Type: Per door schedule.

E. Style & material: Per door schedule.

~~F. Construction:~~ △1

~~G. Units: Solid core wood.~~

~~H. Interior Wood Frames:~~

~~I. Material: Hem Fir~~ △1

J. Finish: Paint as scheduled.

POWERED LOUVER VENTS △1

A. Manufacturer: Air Louvers or equal.

B. Material: Stainless steel or aluminum.

C. Size: Per HVAC Contractor & CAT.

~~D. Screens: Fiberglass.~~

~~E. Glazing: Dual pane - low E.~~

~~F. Argon filled air space.~~

~~G. Grid: To match main residence.~~

~~H. Interior wood to be finished per owner~~

INTERIOR WALL ASSEMBLIES

A. Minimum Panel Thickness: 3/4 inch

B. CDX Plywood - Unfinished △1

~~C. W.R. Backing Panels: ASTM C 630, Standard and Type X.~~

~~D. Cementitious Backer Units (Cement Board): ANSI A1 18.9.~~

~~E. Minimum Wall Panel Thickness: ½-inch.~~

~~F. Tile Backer Board: Glass-Mat Water Resistant Gypsum Tile Backer per ASTM 1178, 5/8 inch thick.~~

~~G. Outside Corner Trim: Galvanized steel or PVC.~~

~~H. Panel Edge Trim: Galvanized steel or PVC.~~

I. 8d Hot Dipped Galvanized Ring-shanked Nails

J. Wall Insulation: 5-1/2" Sound Attenuation Batt

K. Roof Insulation: 2" Closed Cell Spray-in Foam Insulation w/ 3-1/2" Sound Attenuation Batts below

~~L. Concealed areas: Level 1.~~

~~M. At substrate for tile: Level 2.~~

~~N. Painted walls and ceilings: Level 4.~~ △1

FIRE PROTECTION SPECIALTIES

A. Provide smoke detector system as required by Code.

INTERIOR & EXTERIOR LIGHTING

A. Exterior

1. Water resistant LED

2. Per Owner.

B. Interior Strip Light

1. Vapor resistant LED

2. PVC Case

3. Lexan lense or equal. △1

4. Per Owner

EXCAVATION

A. Scope:

B. Provide rough grading for foundation and finished grading as shown on drawings.

C. Stockpile spoils on-site as directed by owner.

EROSION AND SEDIMENTATION CONTROL

A. Scope: Provide means to control of containment of erosion and sediment materials on site.

SITE SANITARY UTILITY SEWERAGE PIPING

A. Protect existing system from damage during construction activities.

SITE STORM UTILITY DRAINAGE PIPING

A. Make connection to existing.

FOUNDATION DRAINAGE

A. Continuous perforated perimeter footing drain line at exterior base of foundation wall. Connect to storm drain.

Gutters and Downspouts

A. Gutters

1. Prefinished metal 5" K-Style

2. Dark bronze color

3. Hidden hardware

B. Downspouts

1. Prefinished metal 3"x4"

2. Dark bronze color △1

3-28-2023 PERMIT SET

REGISTERED ARCHITECT · STATE OF OREGON

Tolovana Architect LLC
P.O Box 648
Tolovana Park, Oregon 97145

PERMIT SET

BUILDING PLANS FOR:
EMERGENCY GENERATOR &
WATER STOR. TANK ADDITION TO
SIUSLAW PUMP STATION
W. SIUSLAW ST. AND S. PACIFIC AVE.
CANNON BEACH, OREGON 97110

MARK	DATE	DESCRIPTION
△1	5-23-23	SPEC. REV.

DATE: 03-28-2023
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2023

SPECIFICATIONS

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