Tillamook County



DEPARTMENT OF COMMUNITY DEVELOPMENT BUILDING, PLANNING & ON-SITE SANITATION SECTIONS

1510 - B Third Street Tillamook, Oregon 97141 www.tillamookcounty.gov (503) 842 - 3408

Building (503) 842-3407 Planning (503) 842-3408 On-Site Sanitation (503) 842-3409 FAX (503) 842-1819 Toll Free 1 (800) 488-8280

Land of Cheese, Trees and Ocean Breeze

ESTUARY DEVELOPMENT PERMIT #851-24-000171-PLNG FLOWER POT CREEK – CULVERT TO BRIDGE REPLACEMENT

NOTICE TO MORTGAGEE, LIENHOLDER, VENDOR OR SELLER: ORS 215 REQUIRES THAT IF YOU RECEIVE THIS NOTICE, IT MUST BE PROMPTLY FORWARDED TO THE PURCHASER

October 11, 2024

Dear Property Owner:

This is to confirm that the Tillamook County Department of Community Development **APPROVED WITH CONDITIONS** the above-cited request on October 11, 2024. A copy of the application, along with a map of the request area and the applicable criteria for review are available for inspection on the Tillamook County Department of Community Development website: https://www.tillamookcounty.gov/commdev/landuseapps. Department of Community Development office located at 1510-B Third Street, Tillamook, Oregon 97141.

Appeal of this decision. This decision may be appealed to the Tillamook County Planning Commission, who will hold a public hearing. Forms and fees must be filed in the office of this Department before **4:00pm on October 23**, **2024.** This decision will become final on October 23, 2024 after 4:00pm unless an appeal is filed in accordance with Tillamook County Land Use Ordinance Article X.

Request: An Estuary and Floodplain Development Permit for the replacement of an

existing culvert with a bridge in Fower Pot Creek, a tributary to Tillamook

Bay.

Location: Located west of the City of Tillamook, the project is located upon Bayocean

Road, a County road, as depicted on the map in 'Exhibit A'.

Zone: Estuary Natural (EN) Zone

Applicant: Liz Ransom, 7125 Bewley Creek Road, Tillamook, OR 97141

Property Owner: Tillamook County, 201 Laurel Ave, Tillamook, OR 97141

CONDITIONS OF APPROVAL

- 1. The Applicant/property owner shall obtain all required Federal, State, and Local permits and/or licenses and will comply with applicable rules and regulations.
- 2. Development shall be as described on the provided plans and descriptions.
- 3. Development shall comply with the applicable standards of TCLUO Section 3.102, 'Estuary Natural (EN)', TCLUO Section 3.510, 'Flood Hazard Overlay (FH) Zone' and TCLUO Section 4.140, 'Requirements for Protection of Water Quality and Streambank Stabilization', and any other applicable standards.
- 4. The fill shall comply with all Building Code requirements for Construction Materials and Methods for a structure located in the 'AE' flood zones.
- 5. This approval shall be void on October 11, 2026, unless construction of approved plans has begun, or an extension is requested from, and approved by this Department.

Sincerely,

Tillamook County Department of Community Development

Melissa Jenck, CFM, Senior Planner

Sarah Absher, CFM, Director

Enc.: Vicinity, Assessor's and Zoning maps

Tillamook County



DEPARTMENT OF COMMUNITY DEVELOPMENT BUILDING, PLANNING & ON-SITE SANITATION SECTIONS

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Land of Cheese, Trees and Ocean Breeze

ESTUARY DEVELOPMENT PERMIT REQUEST 851-24-000171-PLNG: FLOWER POT – CULVERT TO BRIDGE REPLACEMENT

ADMINISTRATIVE DECISION & STAFF REPORT

Decision Date: October 11, 2024

Decision: <u>APPROVED WITH CONDITIONS</u>
(This is not Building or Placement Permit Approval)

Report Prepared by: Melissa Jenck, CFM, Senior Planner

I. GENERAL INFORMATION:

Request:

An Estuary and Floodplain Development Permit for the replacement of an

existing culvert with a bridge in Fower Pot Creek, a tributary to Tillamook

Bay.

Location:

Located west of the City of Tillamook, the project is located upon Bayocean

Road, a County road, as depicted on the map in 'Exhibit A'.

Zone:

Estuary Natural (EN) Zone

Applicant:

Liz Ransom, 7125 Bewley Creek Road, Tillamook, OR 97141

Property Owner:

Tillamook County, 201 Laurel Ave, Tillamook, OR 97141

Proposal Description: The Applicant is proposing to replace an existing culvert with a new bridge within the location of Flower Pot Creek, a tributary to Tillamook Bay (Exhibit B).

The area of proposed construction is depicted on the maps included in the Applicant's submittal, found in 'Exhibit B' of this report. The project area is within Bayocean Road, a County road, which traverses over

Flower Pot Creek and the tidal channels. This location is approximately 5.0 mile west of the City of Tillamook limits (Exhibit A).

As indicated on FEMA FIRM #41057C0560F dated September 28, 2018, the subject property is located entirely in an 'AE' Area of Special Flood Hazard of the Tillamook River (Exhibit A).

The application is an Estuary and Floodplain Development Permit approval for the replacement of an existing culvert with a bridge replacement (Exhibit B). The criteria and standards for this review are addressed below in this Staff Report.

II. <u>APPLICABLE ORDINANCE AND COMPREHENSIVE PLAN PROVISIONS:</u>

The desired use is governed through the following Sections of the Tillamook County Land Use Ordinance (TCLUO). The suitability of the proposed use, in light of these criteria, is discussed in Section III of this report:

- A. TCLUO Section 3.102, 'Estuary Natural (EN) Zone'
- B. TCLUO Section 3.120, 'Regulated Activities and Impacts Assessments'
- C. TCLUO Section 3.140, 'Estuary Development Standards
- D. TCLUO Section 3.510, 'Flood Hazard Overlay (FH) Zone'
- E. TCLUO Section 3.545, 'Shoreland Overlay'
- F. TCLUO Section 4.140, 'Requirements for Protection of Water Quality and Streambank Stabilization'

III. ANALYSIS

The project is located within the regulatory floodplain (AE Zone) and Estuary zone and is subject to a Type II review per TCLUO Article X: Development Approval Procedures. TCLUO Section 10.070 requires notification of Type II applications to be mailed to landowners within 250 feet of the subject properties, to allow at least 14 days for written comment and requires staff to consider comments received in making the decision.

Findings: Notice of the request was mailed to property owners and agencies on July 12, 2024. Staff finds that notification requirements have been met. Comments were received from the Oregon Department of State Lands and are included as "Exhibit C".

A. TCLUO Section 3.102, 'Estuary Natural (EN) Zone'

(1) PURPOSE AND AREAS INCLUDED: The purpose of the EN Zone is to provide for preservation and protection of significant fish and wildlife habitats and other areas which make an essential contribution to estuarine productivity or fulfill scientific, research or educational needs.

Except where a goal exception has been taken in the Tillamook County Comprehensive Plan, the EN Zone includes the following areas:

- (a) Development and Conservation Estuaries: Major tracts of tidal marsh, intertidal flats and seagrass and algae beds. The "major tract" determination is made through a consideration of all of the following four criteria: Size; habitat value; scarcity and degree of alteration
- (b) Natural Estuaries: The EN Zone includes all estuarine waters, intertidal areas, submerged or submersible lands and tidal wetland areas.

ESTUARY ZONES shall be applied to all estuarine waters, intertidal areas, submerged and submersible lands and tidal wetlands up to the line of non-aquatic vegetation or the Mean Higher High Water (MHHW) line, whichever is most landward.

851-24-000171-PLNG: Flower Pot

(2) USES PERMITTED WITH STANDARDS:

- $(g) \ Bridge \ crossings \ and \ crossing \ support \ structures.$
- (4) REGULATED ACTIVITIES: The following Regulated Activities are permitted subject to the procedure of Section 3.120 and the standards in Section 3.140.
 - (g) Fill for installation of public boat ramps or bridge crossing support structures.

Findings: Applicant is proposing to replace the existing culvert located in Flower Pot Creek, with a bridge (Exhibit B). A site plan was included in 'Exhibit B', which demonstrates that the proposed siting location is within the EN zone (Exhibit B).

Staff finds that the bridge crossing is an outright permitted use in the Estuary Natural (EN) Zone. Fill to support the installation of the bridge is subject to TCLUO Section 3.120 and Section 3.140, discussed below.

B. Section 3.120: Review of Regulated Activities

Findings: The purpose of this section is to provide an assessment process and criteria for local review and comment on State and Federal permit applications which could potentially alter the integrity of the estuarine ecosystem. This project includes regulated activities which are subject to State and Federal permits. Notification of the application was provided to Federal and State agencies in accordance with the provisions outlined in TCLUO Section 3.120(8).

The applicant's submittal includes project details, including erosion control methods and best management practices for construction within stream/wetland areas (Exhibit B). Comments were received from Department of State Lands (DSL) that determined the proposed project will require permitting with DSL (Exhibit C).

Staff find that the applicants materials and comments from ODFW and DSL satisfies the development standards that must be addressed as part of the impact assessment outlined in TCLUO Section 3.120.

C. Section 3.140: Estuary Development Standards

Applicable subsections:

- Section 3.140(7): Fill in Estuarine Waters, Intertidal Areas and Tidal Wetlands
- Section 3.140(10): Land Transportation Facilities
- Section 3.140(14): Piling/Dolphin Installation

Findings: The Applicant's narrative addresses the relevant standards and subsections of TCLUO Section 3.140 (Exhibit B). The purpose of the project is to replace an existing 48-inch culvert with a new bridge crossing approximately 44-feet wide, and approximately 60-ft long (Exhibit B). Erosion control measures and timing of construction are addressed in the construction plans (Exhibit B). Bridge placement is to promote fish passage (Exhibit B). The applicant provided the required evaluation of the impact of proposed project on the area as required in Section 3.140(10)(i) and 3.140(14)(d) (Exhibit B).

The bridge crossing is replacing an existing culvert and acts as a primary access to existing developed properties in the area. Staff find the needs for access to existing development, along with recreational development in the area demonstrate consistency with the activity needs in the area.

Staff concludes these standards have been met.

D. TCLUO Section 3.510 'Flood Hazard (FH) Overlay'

 $(5) \ GENERAL\ STANDARDS:\ In\ all\ areas\ of\ special\ flood\ hazards\ the\ following\ standards\ are\ required:$

CONSTRUCTION MATERIALS AND METHODS

- (d) All new construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage.
- (e) All new construction and substantial improvements shall be constructed using methods and practices that minimize flood damage.
- (f) Electrical, heating, ventilation, plumbing, and air-conditioning equipment and other service facilities shall be elevated to prevent water from entering or accumulating within the components during conditions of flooding. In Flood Zones A, A1-A30, AE, V, V1-V30 or VE, such facilities shall be elevated three feet above base flood elevation. In Flood Zone AO, such facilities shall be elevated above the highest grade adjacent to the building, a minimum of one foot above the depth number specified on the FIRM (at least two feet above the highest adjacent grade if no depth number is specified).
- (14) Development Permit Review Criteria
 - (1) The fill is not within a Coastal High Hazard Area.
 - (2) Fill placed within the Regulatory Floodway shall not result in any increase in flood levels during the occurrence of the base flood discharge.
 - (3) The fill is necessary for an approved use on the property.
 - (4) The fill is the minimum amount necessary to achieve the approved use.
 - (5) No feasible alternative upland locations exist on the property.
 - (6) The fill does not impede or alter drainage or the flow of floodwaters.
 - (7) If the proposal is for a new critical facility, no feasible alternative site is available.

Findings: Applicant submitted the required information on forms provided by the Community Development Department and as attachments thereto (Exhibit B). The entire property is located in an AE Area of Special Flood Hazard of the Tillamook River and no alternative upland location exists (Exhibits A and B). The project area is tidally influenced and is not located within the regulatory Floodway. The Applicant describes the to replace a culvert with improvements a 44-feet wide, and approximately 60-ft long bridge (Exhibit B).

Staff finds that these criteria are met.

E. TCLUO Section 3.545 'Shoreland Overlay'

In the vicinity of the proposed project, the Goal 17 element of the Tillamook County Comprehensive Plan identifies all areas within 1,000 feet of estuaries and 500 feet of coastal lakes as within the Shorelands Boundary which may be subject to the provisions of TCLUO Section 3.545, 'SH Shoreland Overlay'. TCLUO Section 3.545 defines those areas within the Shorelands Boundary included within the Shoreland Overlay Zone. Relevant to the proposed development, TCLUO Section 3.545(2) identifies areas within 50 feet of estuaries as areas included in the Shorelands Overlay zone.

Findings: Staff finds that bridge placement is located within the Shorelands Boundary as identified in the Goal 17 element of the Tillamook County Comprehensive Plan. Staff has reviewed the proposed development and determined that shoreland areas on the subject property are categorized as 'Rural

Shorelands' as described in TCLUO 3.545(3) and are subject to the use limitations identified in TCLUO 3.545(4)(a)(1) and the standards identified in TCLUO 3.545(6). Staff has reviewed the significant shoreland inventory contained in the Goal 17 element of the Comprehensive Plan and has verified that there are no inventoried shorelands near the subject property.

TCLUO Section 3.545(4) USES PERMITTED: Uses authorized by the underlying zone as outright or conditional uses are permitted, except at locations identified in (3) above.

- (a) Rural Shorelands in General:
- (1) Rural Shorelands uses are limited to:
 - (f) Other uses are allowed only upon a finding by the County that such uses satisfy a need which cannot be accommodated at any alternative upland location, except in the following cases:

TCLUO Section 3.545(6) STANDARDS: Uses within the SHORELAND OVERLAY ZONE are subject to the provisions and standards of the underlying zone and of this section. Where the standards of the SHORELANDS OVERLAY ZONE and the underlying zone conflict, the more restrictive provisions shall apply.

- (a) Riparian vegetation shall be protected and retained according to the provisions outlined in Section 4.140, REQUIREMENTS FOR PROTECTION OF WATER QUALITY AND STREAMBANK STABILIZATION.
- (b) Development in flood hazard areas shall meet the requirements of Section 3.510, FLOOD HAZARD OVERLAY ZONE.

Findings: Staff finds the project is necessary and cannot be accommodated at an upload location, and the bridge is to replace an existing culvert (Exhibit B). The requirements of TCLUO Section 4.140 and 3.510 are addressed in this report.

Staff finds these criteria have been met.

F. TCLUO Section 4.140, 'Requirements for Protection of Water Quality and Streambank Stabilization'

- *1) The following areas of riparian vegetation are defined:*
 - (a) Fifty (50) feet from lakes and reservoirs of one acre or more, estuaries, and the main stems of the following rivers where the river channel is more than 15 feet in width; Nestucca, Little Nestucca, Three Rivers, Tillamook, Trask, Wilson, Kilchis, Miami, Nehalem and North and South Fork Nehalem River.

For estuaries, all measurements are horizontal and perpendicular from the mean high water line or the line of non-aquatic vegetation, whichever is most landward. Setbacks for rivers, streams, and coastal lakes shall be measured horizontal and perpendicular from the ordinary high water line

- (2) All development shall be located outside of areas listed in (1) above, unless:
 - (a) For a bridge crossing; or

Findings: The proposal is for replacement of an existing culvert with a bridge (Exhibit B). The Applicant describes measures taken for erosion control timing of construction activities to address the site, along with a vegetation plan for post construction (Exhibit B).

Staff finds that these standards have been met.

V. DECISION: APPROVED WITH CONDITIONS

851-24-000171-PLNG: Flower Pot

Based on the findings shown above, Staff concludes that the Applicant has satisfied the review criteria, and can meet all applicable ordinance requirements at the time of application. Therefore, the Department approves Estuary Development Permit 851-24-000171-PLNG subject to the Conditions of Approval in section VI of this report.

Appeal of this decision. This decision may be appealed to the Tillamook County Planning Commission, who will hold a public hearing. The forms and fees must be filed in the office of this Department before **4:00 PM on October 23, 2024.**

VI. <u>CONDITIONS OF APPROVAL:</u>

- 1. The Applicant/property owner shall obtain all required Federal, State, and Local permits and/or licenses and will comply with applicable rules and regulations.
- 2. Development shall be as described on the provided plans and descriptions.
- 3. Development shall comply with the applicable standards of TCLUO Section 3.102, 'Estuary Natural (EN)', TCLUO Section 3.510, 'Flood Hazard Overlay (FH) Zone' and TCLUO Section 4.140, 'Requirements for Protection of Water Quality and Streambank Stabilization', and any other applicable standards.
- 4. The fill shall comply with all Building Code requirements for Construction Materials and Methods for a structure located in the 'AE' flood zones.
- 5. This approval shall be void on October 11, 2026, unless construction of approved plans has begun, or an extension is requested from, and approved by this Department.

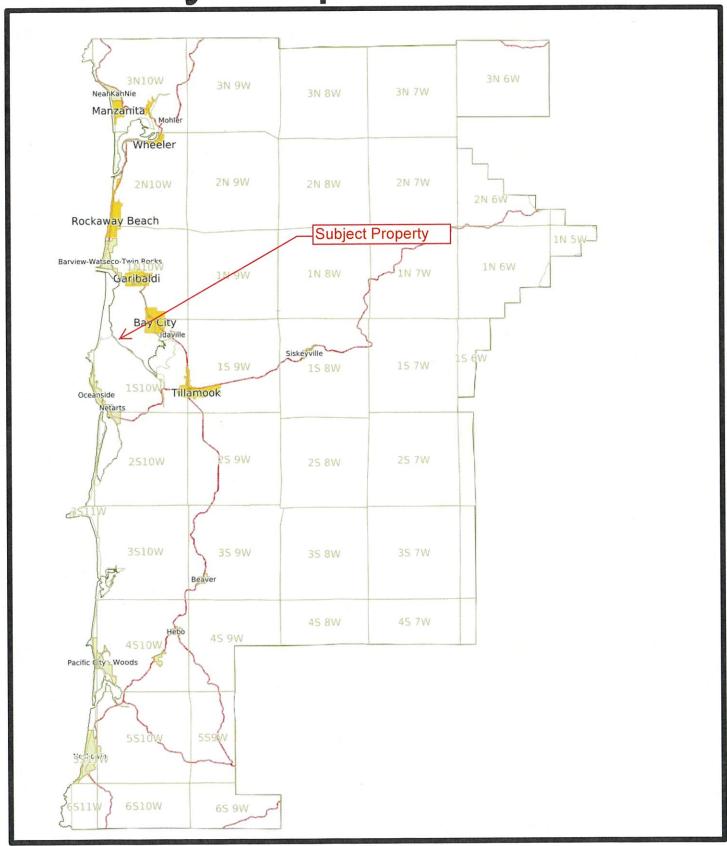
VII. EXHIBITS

All Exhibits referred to herein are, by this reference, made a part hereof:

- A. Location map, Assessor map, Zoning map, FEMA FIRM, NWI Wetlands map
- B. Applicant's submittal
- C. Public Comments

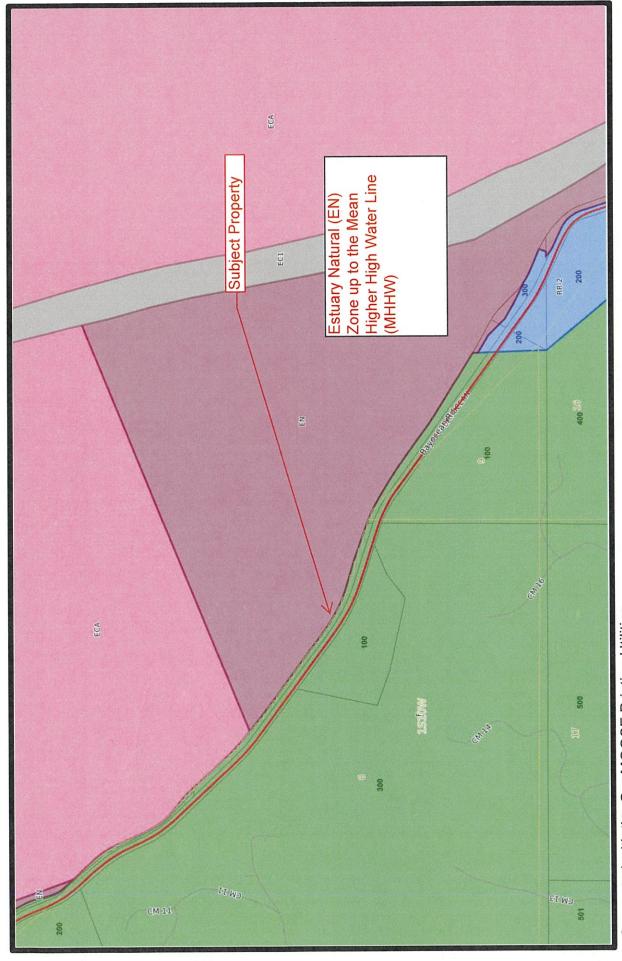
EXHIBIT A

Vicinity Map



Zoning Map





Generated with the GeoMOOSE Printing Utilities

Tillamook County 2023 Real Property Assessment Report

Account 300613

Мар Code - Tax ID 1S10080000100

0901 - 300613

0912 - 408126

Legal Descr

See Record

Mailing

COUNTY

Tax Status

Non-Assessable

Account Status

Active

Subtype

NORMAL

Deed Reference # See Record

Sales Date/Price

See Record

Appraiser

ELIZABETH LOFTIS

Property Class

950

MA

SA NH

RMV Class 010

01 UB **UBL**

Site Situs Address

City

	4.50		Value Summary			
Code A	rea	RMV	MAV	AV	RMV Exception	CPR %
0901	Land	0		Land	0	
	Impr	0		Impr	0	
Code	Area Total	0	0	0	0	
Grand Total		0	0	0	0	-

					Land Breakdown			
Code Area	ID#	RFPD	Plan Ex Zone	Value Source	Trend %	Size	Land Class	Trended RMV
0901	1	~	F	Market	100	63.90 AC		0
					Code Area Total	63.90 AC		0

					Improvement Breakdown			
Code		Year	Stat		Trend			
Area	ID#	Built	Class	Description	%	Total Sqft	Ex% MS Acct	Trended RMV

Exemptions / Special	Assessments / Notations	
Code Area 0912		
Exemptions (AV)	Amount	
■ COUNTY GOVERNMENT 307.090	0	

Comments

10/19/09 Added RMV PCA. Updated RMV. Fronting and abuting tidelands. KF 9/11/18 - Updated MA/ST/NH combo. EJ.

National Flood Hazard Layer FIRMette





Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

With BFE or Depth Zone AE, AO, AH, VE, AR

Without Base Flood Elevation (BFE)

Regulatory Floodway

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainag

Future Conditions 1% Annual Chance Flood Hazard Zone X

areas of less than one square mile Zone

Area with Reduced Flood Risk due to Levee. See Notes. Zone X

Area with Flood Risk due to Levee Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X **Effective LOMRs**

Area of Undetermined Flood Hazard Zon

Channel, Culvert, or Storm Sewer STRUCTURES | 111111 Levee, Dike, or Floodwall Cross Sections with 1% Annual Chance

Water Surface Elevation Coastal Transect

Base Flood Elevation Line (BFE) Limit of Study

more gizanon

Jurisdiction Boundary

Coastal Transect Baseline Profile Baseline

Digital Data Available

Hydrographic Feature

No Digital Data Available

Unmapped

The pin displayed on the map is an approximat point selected by the user and does not represe

an authoritative property location.

This map complies with FEMA's standards for the use of The basemap shown complies with FEMA's basemap digital flood maps if it is not void as described below. accuracy standards

authoritative NFHL web services provided by FEMA. This map reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or The flood hazard information is derived directly from the was exported on 7/12/2024 at 7:51 PM and does not become superseded by new data over time. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

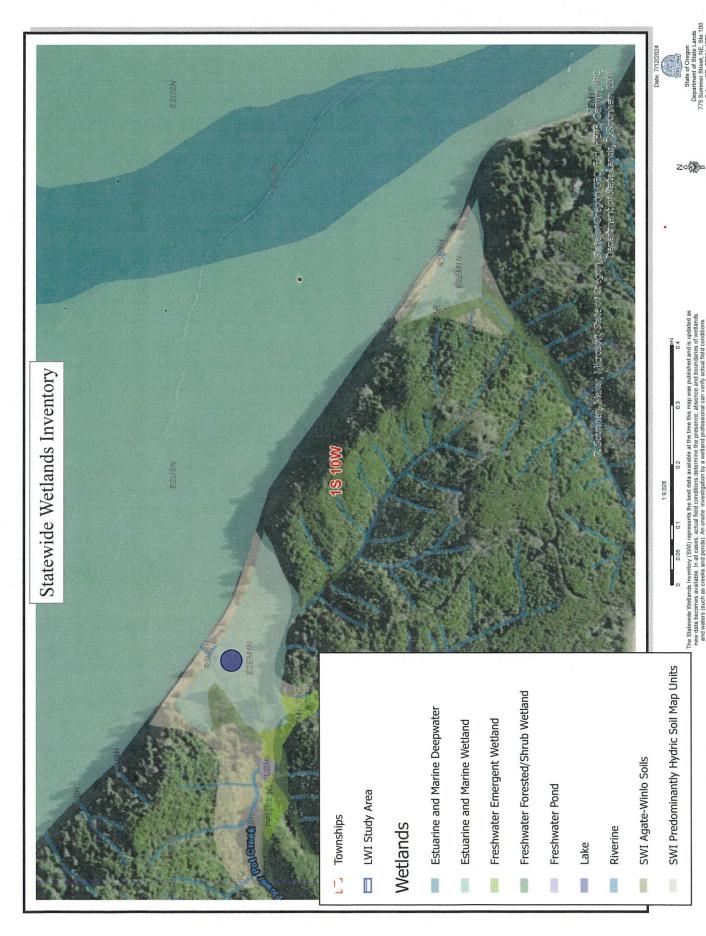


EXHIBIT B



Tillamook County Department of Community Development

1510-B Third Street. Tillamook, OR 97141 | Tel: 503-842-3408 Fax: 503-842-1819

www.co.tillamook.or.us

OFFICE USE ONLY

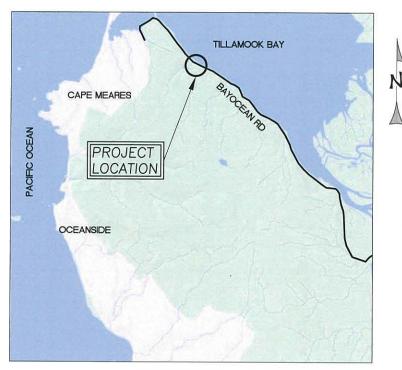
Date Stamp

DEVELOPMENT PERMIT

					2=	
Applicant □ (Check Box if Same as Property Owner)						
Name: Liz Ransom Phone: 541-691-9233					Mas & 7	
Address: 7125 Bewely Cree	k Road					
City: Tillamook	Zip:	97141	□Approved □Denied			
Email: Liz.Ransom@TU.org					ved by:	
Property Owner				Recei		
Name: Chris Laity	Phone: 503-84	12-2/10	1	Fees:	P. C.	
Name: Chris Laity Phone: 503-842-3419 Address: 201 Laurel Ave				Perm	it No:	
City: Tillamook	State: OR	7in:	97141	851-	24-0017(-PLNG	
Email: claity@co.tillamook.o		210.	3/141			
Cirian. clarity & co.tilian look.o	1.43					
Description of Work: The	project will replace a fa	ailing c	ulvert with a bridge	support	ed on steel pilings to	
the West of the existing culve				-		
passable grade.	AUCTO CONTROL OF THE				HOLES AND	
Location:					The state of the s	
Site Address: 45.49700)1, -123.930462					
Map Number: 1S	10W		8		100	
Township	Range		Sect	ion	Tax Lot(s)	
Complete all applicable	fields:		Flood Insurance	Rate N	Nap (FIRM) Panel Info	
	Estuary: 🗸 Floodplain:	Tillamook County	Panel f	Number: 41057C		
New: Addition: Replace	ment: Remodel: Demo	lish:	Effective Date:	Pro	perty Flood Zone(s):	
Dwelling: Accessory Structure:			Floodway: Y	N Pro	ject Flood Zone(s):	
Culvert Diameter: 4'D, 56'L	Bridge Length: - Width:		Stream/Waterbody	Name:		
Fence Height:	Retaining Wall Height:		Elevation Data	NAVD	88)	
Streambank Stabilization:	treambank Stabilization: Other:		Base Flood Elevation: First Habitable Floor:			
Fill/Removal/Grading: 1402 CY Vegetation Removal: CY			Lowest Floor/Horizontal Member:			
L			Enclosed Area:		Flood Vent Area:	
Structure/Damage \$:	Other Required	Permit	S			
Substantial improvement/da	nage threshold 50% cost vs. \	value				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Authorization						
This permit application does r	not assure normit annroyal	The an	plicant and/or proper	tv awner	shall be responsible for	
obtaining any other necessary						
complete, accurate, and cons						
Property Owner Signature (Required)	CHAIS CAI	74			9, 25 - 23 Date	
Property Owner signature (nequired)					P. 4.4.E	
Applicant Signature					Date	
22/47						
Development Permit App	lication	Rev. 7/3	15/21		Page 1	

FLOWER POT CREEK FISH PASSAGE PROJECT

90% DESIGN SUBMITTAL



VICINITY MAP

WATERSHED SCIENCES. INC. 506 2ND AVE #2700

SEATTLE, WA 98104

PROPERTY AND ROW MAPPING BY: STATEWIDE LAND SURVEYING, INC.

GENERAL NOTES

- TOPOGRAPHIC MAPPING WAS PERFORMED BY: WATERWAYS CONSULTING, INC. 1020 SW TAYLOR ST., SUITE 380 SURVEY DATES: APRIL 28, AND MAY 6, 2022.
- 2. ELEVATION DATUM: NAVD88.
- 3. HORIZONTAL DATUM: OREGON STATE PLANE, NORTH ZONE NAD83.
- 4. AERIAL PHOTO SOURCE: AUTOCAD CIVIL3D GEOLOCATION MAP
- 5. CONTOUR INTERVAL IS ONE FOOT. ELEVATIONS AND DISTANCES SHOWN ARE IN DECIMAL FEET.
- 6. PROPERTY LINES AND RIGHT OF WAY LINES SHOWN ARE FROM STATEWIDE LAND SURVEYING, INC.'S PROPERTY BOUNDARY SURVEY CONDUCTED ON 7/6/2022, PRINTED 7/26/2022.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STATE OF OREGON STANDARD SPECIFICATIONS, ISSUED BY THE DEPARTMENT OF TRANSPIRATION (HEREAFTER REFERRED TO AS "STANDARD SPECIFICATIONS").
- 8. THESE DESIGNS ARE INCOMPLETE WITHOUT THE FINAL STAMPED SPECIAL PROVISIONS PREPARED BY WATERWAYS CONSULTING, INC. REFER TO SPECIFICATIONS FOR DETAILS NOT SHOWN HEREON.

PROJECT LOCATION PORTLAND TLLAMOOK

REGIONAL MAP

ABBREVIATIONS

AVG.	AVERAGE	O.C.	ON CENTER		
BFE	BASE FLOOD ELEVATION	PVC	POLYVINYL CHLORIDE		
CC	CONCRETE	RC	RELATIVE COMPACTION		
CY	CUBIC YARDS				
DIA.	DIAMETER	R.O.W.	REINFORCED CONCRETE PIPE RIGHT OF WAY		
E	EXISTING	RSP	ROCK SLOPE PROTECTION		
EG	EXISTING GROUND	SPK	SPIKE		
ESM	ENGINEERED STREAMBANK	SQ.FT.			
	MATERIAL	O.O.A.			
ELEV.	ELEVATION	TPUD	TILLAMOOK PEOPLE'S UTILITY		
DI	DRAINAGE INLET	11.00	DISTRICT		
FEMA	FEDERAL EMERGENCY	TYP	TYPICAL		
	MANAGEMENT AGENCY	UNK	UNKNOWN		
FG	FINISHED GRADE	WSE	WATER SURFACE ELEVATION		
FT	FEET	YR	YEAR		
INV	INVERT				
MAX	MAXIMUM	TREE SE	PECIES		
MHHW	MEAN HIGHER HIGH WATER	A	ALDER		
MIN	MINIMUM	DF	DOUGLAS FIR		
N	NEW	S	SPRUCE		
NIC	NOT IN CONTRACT	DF S T	TREE (SPECIES UNKNOWN)		
N.T.S.	NOT TO SCALE		THE (S. ESIES STATISTIC)		

SECTION AND DETAIL CONVENTION

SECTION OR DETAIL IDENTIFICATION (NUMBER OR LETTER)



PROJECT DESCRIPTION

THESE DRAWINGS PROVIDE DESIGN DETAILS FOR A FISH PASSAGE IMPROVEMENT PROJECT ALONG BAYOCEAN ROAD AT THE FLOWER POT CREEK CONFLUENCE TILLAMOOK BAY IN

THE PROJECT WILL REPLACE A FAILING CULVERT WITH A BRIDGE SUPPORTED ON STEEL PILINGS TO THE WEST OF THE EXISTING CULVERT. FLOWER POT CREEK AND TIDAL CHANNELS WILL BE REALIGNED TO PROVIDE CONTINUOUS FISH PASSAGE.

-	EET INDEX
C1 C2	COVER OVERVIEW AND STAGING PLAN
C3	EXISTING CONDITIONS
C4	CREEK GRADING PLAN AND ROAD PROFILE
C5	CREEK PROFILE AND SECTIONS
C6	CONSTRUCTION SEQUENCING, EROSION CONTROL, AND DEWATERING PLAN
C7	REVEGETATION PLAN
C8	DETAILS
C9	DETAILS
C10	NOTES
C11	NOTES
R1	ALIGNMENT
R2	TYPICAL SECTIONS
R3	GUARDRAIL DETAILS
TC1	TRAFFIC CONTROL OVERVIEW

TRAFFIC CONTROL OVERVIEW
TRAFFIC CONTROL STAGES
GENERAL NOTES
BRIDGE SITE PLAN
CONSTRUCTION SEQUENCE
PLAN, ELEVATION, & DECK SECTION
FOUNDATION PLAN
BENT DETAILS
SLAB DETAILS

CONSTRUCTION ELIMINAR

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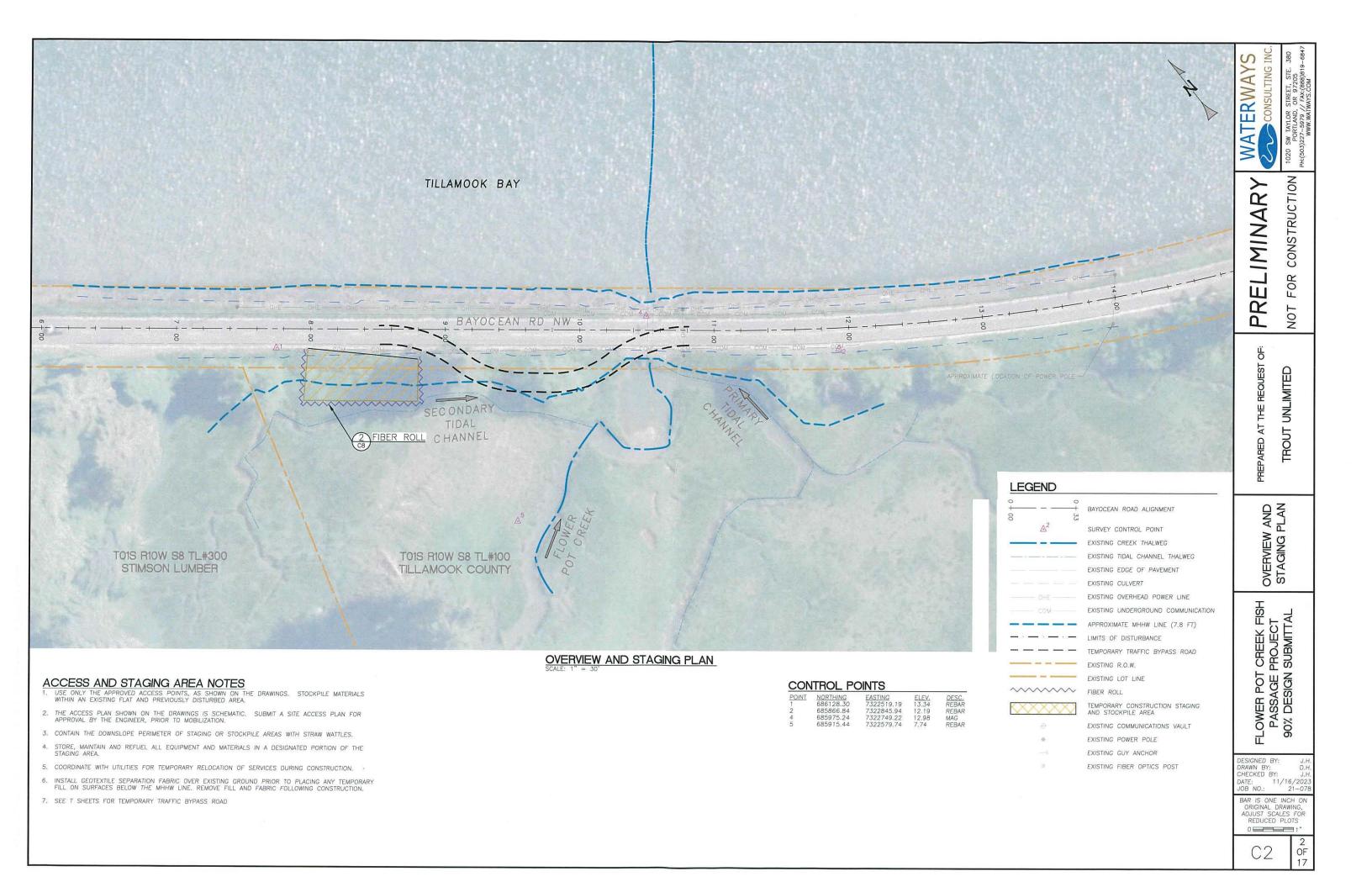
FISH FLOWER POT CREEK FISH PASSAGE PROJECT 90% DESIGN SUBMITTAL

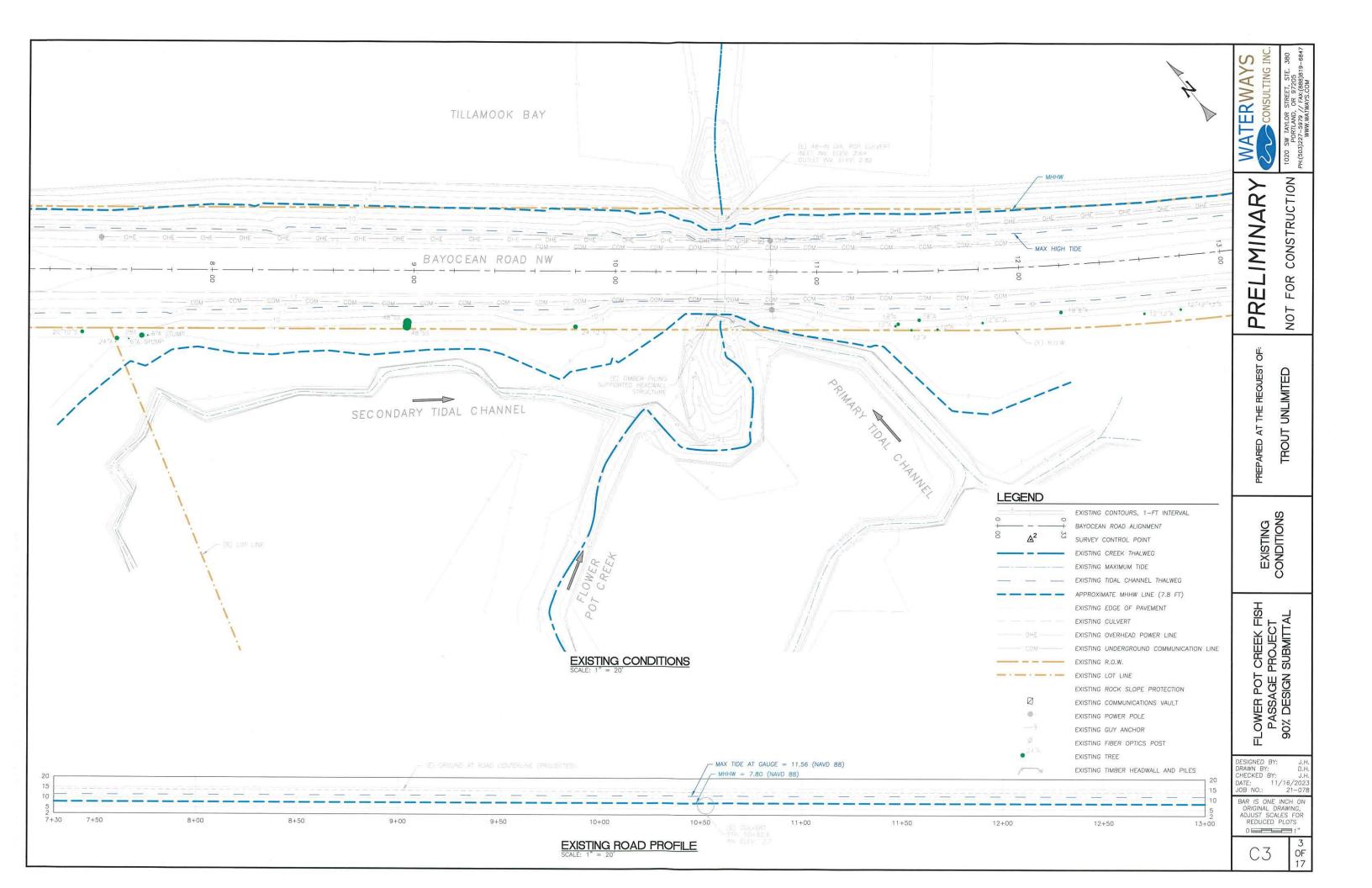
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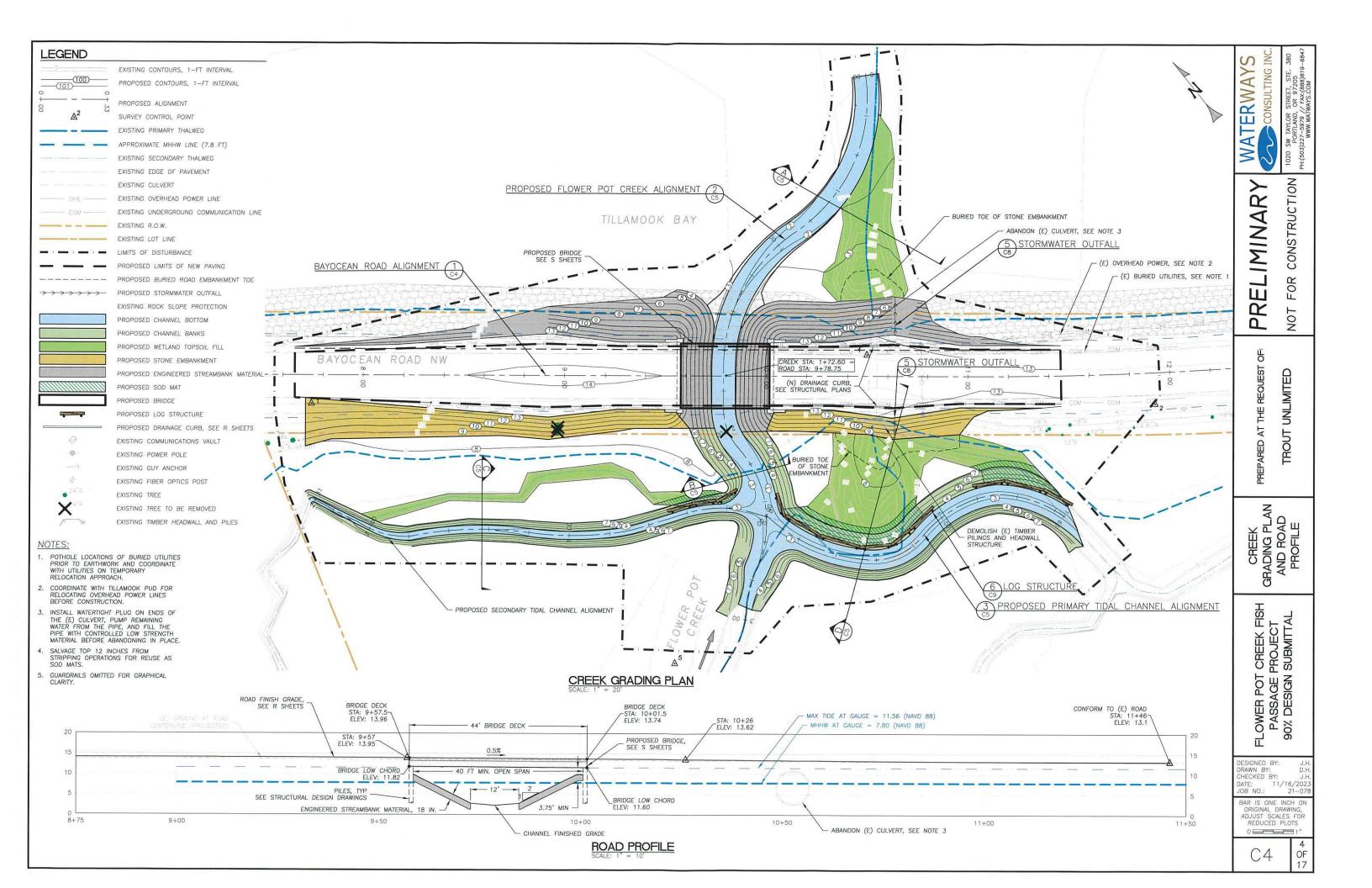
ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

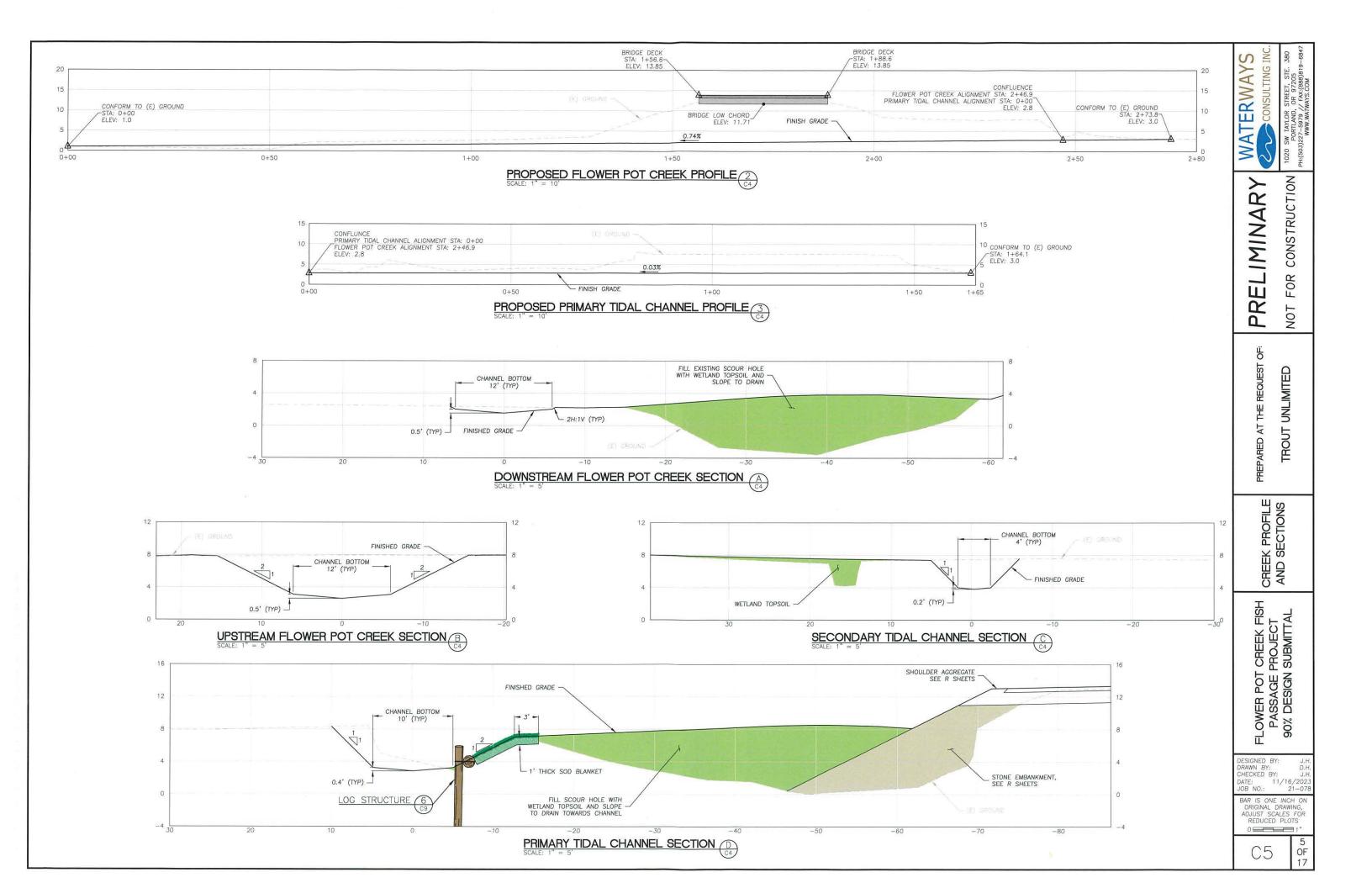
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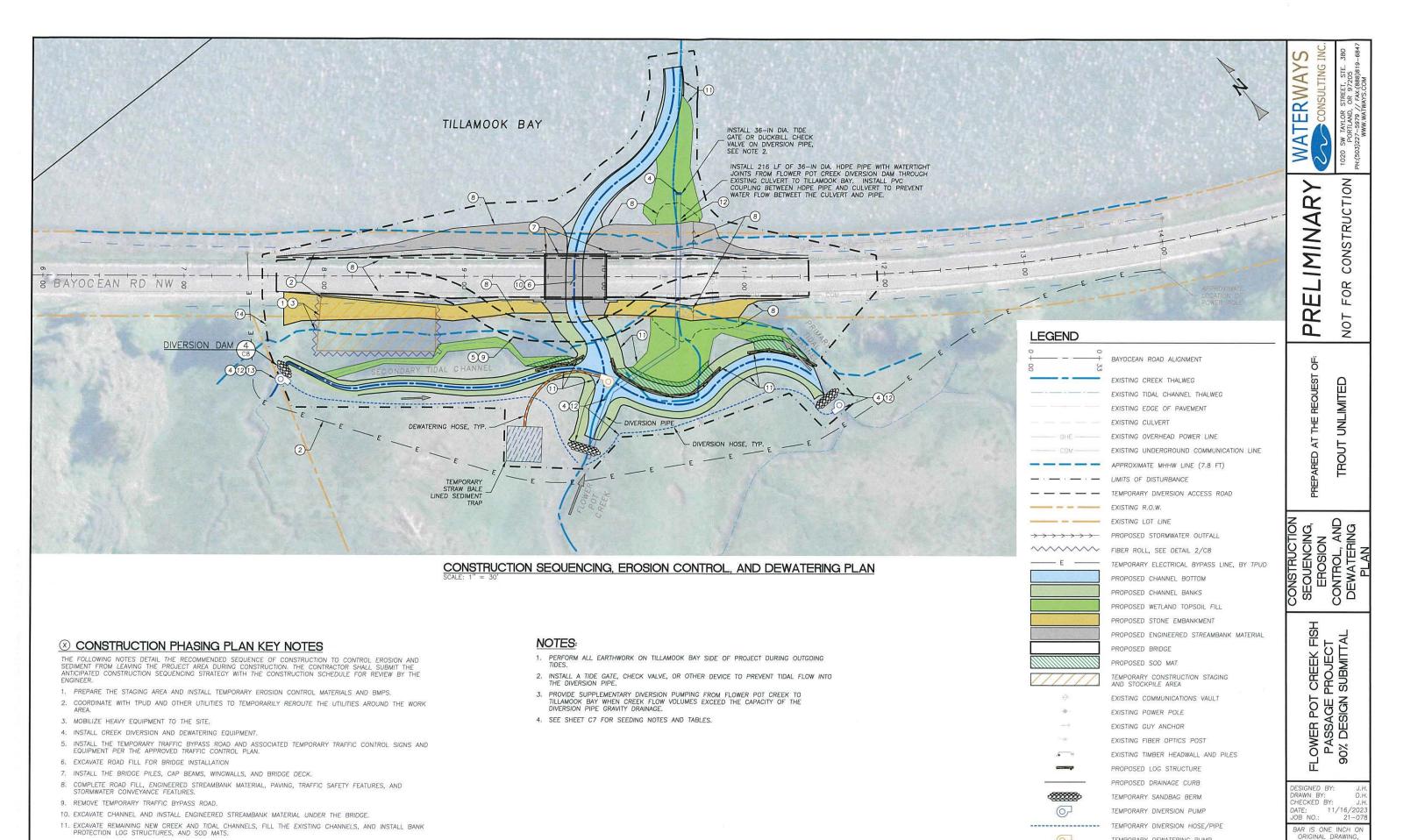
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12. REMOVE CREEK DIVERSION AND DEWATERING EQUIPMENT AND DEMOLISH/ABANDON THE EXISTING CULVERT.

13. DEMOBILIZE HEAVY EQUIPMENT, RESTORE STAGING AREA, AND REMOVE TEMPORARY TRAFFIC CONTROL SIGNS.

14. INSTALL PERMANENT EROSION CONTROL BMPs AND HYDROSEED ALL EXPOSED SOILS WITHIN LIMITS OF

ADJUST SCALES FOR REDUCED PLOTS 0 -1

TEMPORARY DEWATERING PUMP

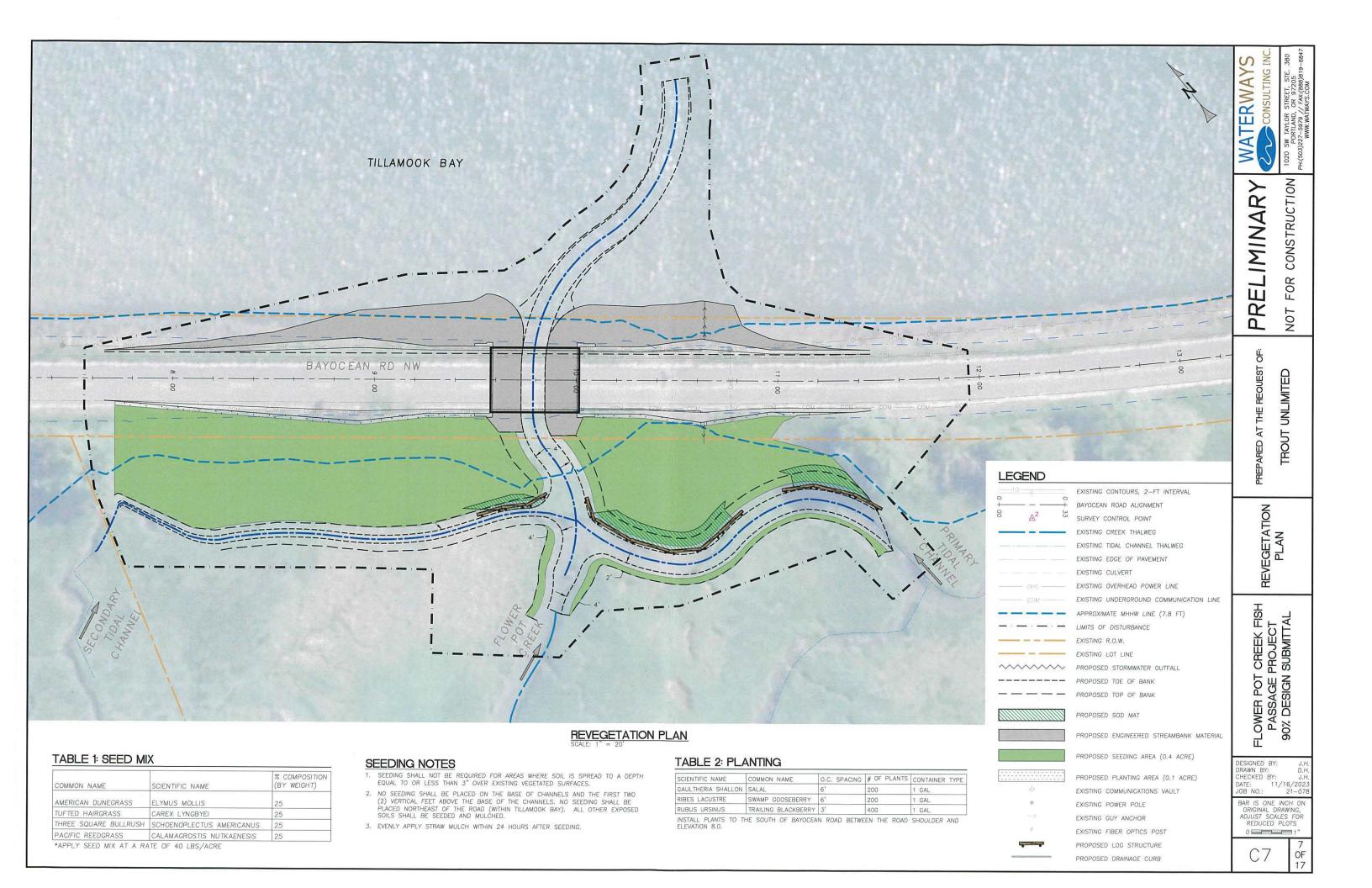
TEMPORARY DEWATERING HOSE

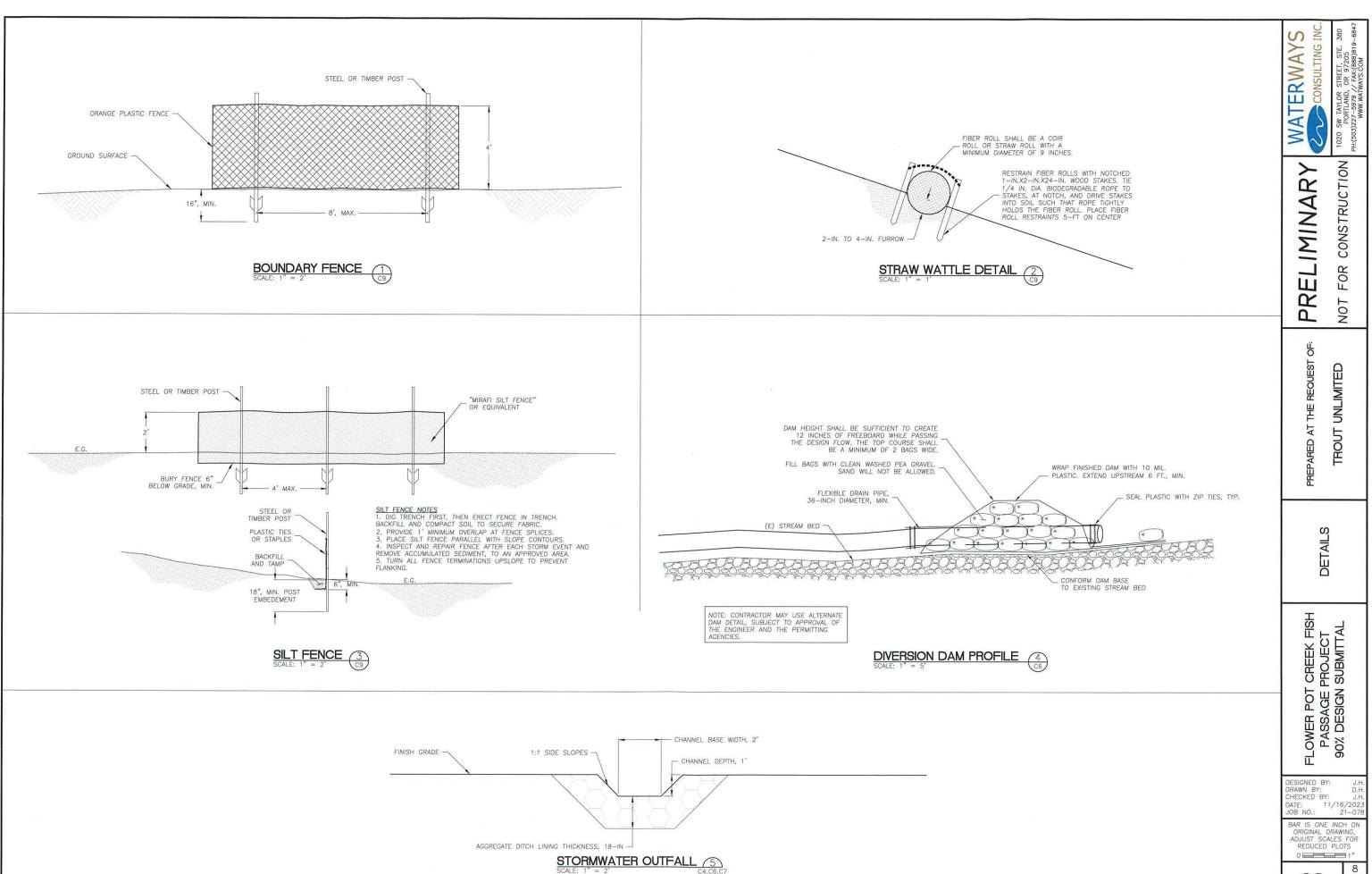
TEMPORARY DEWATERING PIPE

TEMPORARY SEDIMENT TRAP

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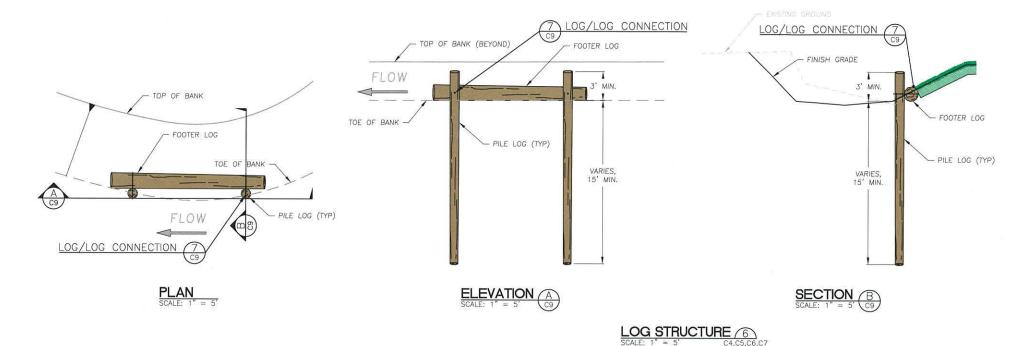
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FLOWER POT CREEK FISH PASSAGE PROJECT 90% DESIGN SUBMITTAL

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LOG STRUCTURE NOTES

PLACEMENT LOCATIONS: LOG LOCATIONS SHOWN ON DRAWINGS ARE
APPROXIMATE, EXACT LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.

2. LOGS: LOGS SHALL BE CONIFER, SOUND AND FREE OF SIGNIFICANT DECAY.
PILE LOGS SHALL BE STRIPPED OF BARK BEFORE INSTALLATION. MATERIALS
FOR USE IN THE STRUCTURES SHALL MEET THE FOLLOWING SIZE CRITERIA:

3. QUANTITIES:

PILE LOGS TOE LOGS

*NOTE: LENGTH AS SHOWN ON PLANS

LOG/LOG CONNECTIONS

CONNECTIONS: CONNECTIONS SHALL CONSIST OF LOG/LOG CONNECTIONS, AS SHOWN ON DETAIL 5, THIS SHEET. PROVIDE A MINIMUM OF TWO (2) PER TOE LOG, OR AS DIRECTED BY THE ENGINEER. PLACE ALL CONNECTIONS TO MINIMIZE VISUAL IMPACT.

5. LOG STRUCTURE DESIGNS ARE SHOWN CONCEPTUALLY DUE TO THE INHERENT VARIABILITY OF MATERIAL PROPERTIES. THE DESIGN REQUIRES THAT THE ENGINEER WILL OBSERVE CONSTRUCTION OF THE LOG STRUCTURES TO ENSURE THE INTENT OF THE DESIGN IS MET. OBSERVATIONS MUST INCLUDE LOG AND BOULDER SELECTION, PLACEMENT, AND BACKFILLING. ANY LOG STRUCTURES CONSTRUCTED WITHOUT THE ENGINEER PRESENT ON—SITE MAY RESULT IN REJECTION OF THE WORK BY THE ENGINEER.

SCORE OR TACK WELD TREADS TO REMOVE BARK AND SAP WOOD FROM LOGS AT INTERSECTION 30" MIN. NO. 8 THREADED - REBAR ROD, GRADE 75 (TYP) SECURE LOGS WITH STEEL
WASHER AND NUT, EACH SIDE.
WASHER TO BE 3-IN X 3-IN X 3/16-IN,
NOTCH LOG TO PROVIDE FLAT BEARING LOCATIONS OF LOG/LOG CONNECTIONS
REQUIRED AT INTERFACE OF:
LOGS WITH ROOTWADS TO ANCHOR PILE SURFACE FOR WASHER (TYP) . HEADER LOGS TO ANCHOR PILE (2 PER HEADER LOG)



EROSION CONTROL NOTES

- THE ESCP MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, UPGRADE THESE MEASURES AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS.
- 2. PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION.
- 3. IDENTIFY, MARK, AND PROTECT (BY FENCING OFF OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS.
- PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS
 WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED
 MIX USED.
- 5. EROSION AND SEDIMENT CONTROL MEASURES INCLUDING PERIMETER SEDIMENT CONTROL MUST BE IN PLACE BEFORE VEGETATION IS DISTURBED AND MUST REMAIN IN PLACE AND BE MAINTAINED, REPAIRED, AND PROMPTLY IMPLEMENTED FOLLOWING PROCEDURES ESTABLISHED FOR THE DURATION OF CONSTRUCTION, INCLUDING PROTECTION FOR ACTIVE STORM DRAIN INLETS AND CATCH BASINS AND APPROPRIATE NON-STORMWATER POLLUTION CONTROLS
- 6. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES AND FOR ALL ROADWAYS INCLUDING GRAVEL ROADWAYS.
- 7. ESTABLISH MATERIAL AND WASTE STORAGE AREAS. AND OTHER NON-STORMWATER CONTROLS.
- 8. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES.
- 9. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE.
- 10. USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, LEFTOVER PAINTS, SOLVENTS, AND GLUES FROM CONSTRUCTION OPPRATIONS.
- 11. FUELING ACTIVITIES MUST BE LOCATED A MINIMUM OF 150 FEET FROM ORDINARY HIGH WATER AND SENSITIVE WATERS. INCLUDING WETLANDS
- 12. IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES.
- 13. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL
- 14. ONSITE VEHICLE SPEED ON UPAVED SURFACES SHALL BE LIMITED TO 15 MPH.
- 15. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME—RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE.
- 16. IF A STORMWATER TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF FYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN PLAN APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- 17. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR.
- 18. AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS
- CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND DURING WET WEATHER.
- 20. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL.
- 21. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME.
- 22. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS, DRAINAGE WAYS, OR WETLANDS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS.
- 23. THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR 30 DAYS OR MORE.
- 24. PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE.
- 25. PROVIDE PERMANENT EROSION CONTROL MEASURES ON ALL EXPOSED AREAS AS THEY ARE COMPLETED. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. HOWEVER, DO REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AS EXPOSED AREAS BECOME STABILIZED, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. PROPERLY DISPOSE OF CONSTRUCTION MATERIALS AND WASTE, INCLUDING SEDIMENT RETAINED BY TEMPORARY BMPS.

STREAM/WETLAND CONSTRUCTION BEST MANAGEMENT PRACTICES

1. ALL WORK WITHIN THE WETTED CHANNEL SHALL BE COMPLETED WITHIN THE IN-WATER WORK WINDOW AS LISTED IN THE PERMITS.

2. FISH RELOCATION

- 2.1. SHALL BE PERFORMED BY THE CONTRACTOR (UNLESS STATED OTHERWISE IN THE CONTRACT DOCUMENTS) PRIOR TO PERFORMING ANY CONSTRUCTION WITHIN THE WETTED CHANNEL, ALL FISH RELOCATION WORK SHALL BE SUPERVISED BY A QUALIFIED FISHERIES BIOLOGIST WITH EXPERIENCE IN WORK AREA ISOLATION, AND A VALID ODFW SCIENTIFIC TAKE PERMIT. PERFORM THE FOLLOWING STEPS IN THE ORDER LISTED FOR FISH RELOCATION:
- 2.2. CONDUCT FISH RELOCATION ACTIVITIES DURING PERIODS OF THE DAY WITH THE COOLEST AIR AND WATER TEMPERATURES POSSIBLE.
- 2.3. ISOLATE THE WETTED STREAM CHANNEL AT THE UPSTREAM END OF THE LIMITS OF DISTURBANCE WITH BLOCK NETS. CLOSELY MONITOR ALL BLOCK NETS THROUGHOUT CONSTRUCTION TO ENSURE THEY STAY SECURED TO THE BANKS AND FREE OF ORGANIC ACCUMULATION.
- 2.4. CONDUCT AN INITIAL SWEEP OF THE WETTED CHANNEL WITH SEIN NETS WITHIN THE WORK ZONE FROM UPSTREAM TO DOWNSTREAM.
- 2.5. ISOLATE THE DOWNSTREAM END OF THE WETTED CHANNEL WITH BLOCK NETS.
- 2.6. INSTALL DEWATERING EQUIPMENT AND BEGIN SLOWLY DEWATERING WHILE CONTINUING FISH RELOCATION ACTIVITIES.
- 2.7. ELECTROFISHING SHALL FOLLOW NMFS (2000) GUIDELINES
- 2.8. FISH TRANSPORT
- 2.8.1. MINIMIZE THE TIME FISH ARE IN TRANSPORT CONTAINERS.
- 2.8.2. KEEP TRANSPORT CONTAINERS IN SHADED AREA.
- 2.8.3. LIMIT THE NUMBER OF FISH WITHIN CONTAINERS AND ONLY KEEP FISH OF RELATIVELY COMPARABLE SIZE WITHIN A GIVEN CONTAINER.
- 2.8.4. USE AERATORS OR REPLACE THE WATER IN THE CONTAINERS AT LEAST EVERY 15 MINUTES WITH COLD CLEAR WATER
- 2.8.5. RELEASE FISH IN AN AREA UPSTREAM OF THE CONSTRUCTION AREA WITH ADEQUATE COVER AND FLOW REFUGE. DOWNSTREAM IS ACCEPTABLE PROVIDED THE RELEASE SITE IS BELOW THE INFLUENCE OF CONSTRUCTION.
- 2.8.6. MONITOR AND RECORD FISH PRESENCE, HANDLING, AND INJURY/MORTALITY DURING ALL PHASES OF FISH RELOCATION AND SUBMIT A FISH SALVAGE REPORT AS REQUIRED BY PERMITS WITHIN 60 DAYS.

3. DEWATERING/BYPASS FLOWS

- 3.1. PUMPS: WHENEVER A PUMP IS USED TO DEWATER THE ISOLATION AREA AND ESA-LISTED FISH MAY BE PRESENT, A FISH SCREEN WILL BE USED THAT MEETS THE MOST CURRENT VERSION OF NMFS'S FISH SCREEN CRITERIA (NMFS 2011A). NMFS APPROVAL IS REQUIRED FOR PUMPING AT A RATE THAT EXCEEDS 3
- 3.2. TREAT ALL DISCHARGE WATER FROM DEWATERING ACTIVITIES WITHIN THE CONSTRUCTION AREA USING BEST MANAGEMENT PRACTICES TO REMOVE DEBRIS, SEDIMENT, PETROLEUM PRODUCTS, AND ANY OTHER POLLUTANTS LIKELY TO BE PRESENT.DEWATER THE SHORTEST LINEAR EXTENT OF WORK AREA PRACTICABLE.
- 3.3. FLOW BYPASS SHALL BE PERFORMED AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
- 3.4. RE-WATERING OF THE WORK AREA FOLLOWING CONSTRUCTION SHALL BE PERFORMED SLOWLY TO PREVENT LOSS OF SURFACE FLOW DOWNSTREAM AND ANY SUDDEN INCREASE IN STREAM TURBIDITY.

4. TEMPORARY STREAM CROSSINGS

- 4.1. MINIMIZE THE NUMBER OF STREAM CROSSINGS TO MAXIMUM EXTENT PRACTICABLE.
- 4.2. NO STREAM CROSSINGS SHALL BE ALLOWED IN ACTIVE SPAWNING SITES, WHEN HOLDING ADULT LISTED FISH ARE PRESENT, OR WHEN EGGS OR ALEVINS ARE IN THE GRAVEL.
- 4.3. TEMPORARY CROSSINGS SHALL NOT OCCUR IN AREA THAT MAY INCREASE THE RISK OF CHANNEL RE-ROUTING OR AVULSION, OR IN POTENTIAL SPAWNING HABITAT.
- 4.4. CONSTRUCTION EQUIPMENT AND VEHICLES SHALL CROSS STREAMS AT RIGHT ANGLES TO THE MAIN CHANNEL.
- 4.5. CONSTRUCTION EQUIPMENT AND VEHICLES SHALL ONLY BE ALLOWED TO CROSS STREAMS IN THE WET WHERE THE STREAMBED IS BEDROCK, OR WHERE MATS OR OFF-SITE LOGS ARE PLACED IN THE STREAM AND USED AS A CROSSING
- 4.6. DECOMMISSION ALL TEMPORARY STREAM CROSSINGS IMMEDIATELY FOLLOWING CONSTRUCTION AND RETURN

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NOTES

FLOWER POT CREEK FISH PASSAGE PROJECT 90% DESIGN SUBMITTAL

DESIGNED BY: J.F DRAWN BY: D.F CHECKED BY: J.F DATE: 11/16/202 JOB NO.: 21-07

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

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- 1. NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER OR A DESIGNATED REPRESENTATIVE SHALL OBSERVE THE CONSTRUCTION PROCESS. AS NECESSARY TO ENSURE PROPER
- 2. EXISTING UNDERGROUND UTILITY LOCATIONS:
 - A. CALL UNDERGROUND SERVICE ALERT (1-800-332-2344) TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO COMMENCING CONSTRUCTION.
 - B. PRIOR TO BEGINNING WORK, CONTACT ALL UTILITIES COMPANIES WITH REGARD TO WORKING OVER, UNDER, OR AROUND EXISTING FACILITIES AND TO OBTAIN INFORMATION REGARDING RESTRICTIONS THAT ARE REQUIRED TO PREVENT DAMAGE TO THE FACILITIES.
 - C. EXISTING UTILITY LOCATIONS SHOWN ARE COMPILED FROM INFORMATION SUPPLIED BY THE APPROPRIATE UTILITY AGENCIES AND FROM FIELD MEASUREMENTS TO ABOVE GROUND FEATURES
 READILY VISIBLE AT THE TIME OF SURVEY. LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR
 IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE DIMENSIONS, SIZES, MATERIALS, LOCATIONS, AND DEPTH OF UNDERGROUND UTILITIES.
 - D. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE LOCATION AND/OR PROTECTION OF ALL EXISTING AND PROPOSED PIPING, UTILITIES, TRAFFIC SIGNAL EQUIPMENT (BOTH ABOVE GROUND AND BELOW GROUND), STRUCTURES. AND ALL OTHER EXISTING IMPROVEMENTS THROUGHOUT CONSTRUCTION.
 - E. PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION, DISCOVER OR VERIFY THE ACTUAL DIMENSIONS, SIZES, MATERIALS, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND POTHOLE THOSE AREAS WHERE POTENTIAL CONFLICTS ARE LIKELY OR DATA IS OTHERWISE INCOMPLETE.
 - F. TAKE APPROPRIATE MEASURES TO PROTECT EXISTING UTILITIES DURING CONSTRUCTION OPERATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF REPAIR/REPLACEMENT OF ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION
 - G. UPON LEARNING OF THE EXISTENCE AND/OR LOCATIONS OF ANY LINDERGROUND FACILITIES NOT SHOWN OR SHOWN INACCURATELY ON THE PLANS OR NOT PROPERLY MARKED BY THE UTILITY OWNER, IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY BY TELEPHONE AND IN WRITING,
 - H. UTILITY RELOCATIONS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT FACILITIES WILL BE PERFORMED BY THE UTILITY COMPANY, UNLESS OTHERWISE NOTED.
- 3. IF DISCREPANCIES ARE DISCOVERED BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE FULLY INFORMED OF AND TO COMPLY WITH ALL LAWS, ORDINANCES, CODES, REQUIREMENTS AND STANDARDS WHICH IN ANY MANNER AFFECT THE COURSE OF CONSTRUCTION OF THIS PROJECT, THOSE ENGAGED OR EMPLOYED IN THE CONSTRUCTION AND THE MATERIALS USED IN THE CONSTRUCTION.
- 5. ALL TESTS, INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY, JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE REQUIRED TESTS AND INSPECTIONS ARE PERFORMED.
- PROJECT SCHEDULE: PRIOR TO COMMENCEMENT OF WORK, SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL A DETAILED CONSTRUCTION SCHEDULE. DO NOT BEGIN ANY CONSTRUCTION WORK UNTIL THE PROJECT SCHEDULE AND WORK PLAN IS APPROVED BY THE ENGINEER. ALL CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE ENGINEER SO THAT THE QUALITY OF WORK CAN BE CHECKED FOR APPROVAL. PURSUE WORK IN A CONTINUOUS AND DILIGENT MANNER TO ENSURE A TIMELY COMPLETION
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, PERMITTING, INSTALLATION, AND MAINTENANCE OF ANY AND ALL TRAFFIC CONTROL MEASURES DEEMED NECESSARY.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL SAFETY DURING CONSTRUCTION, ALL WORK SHALL CONFORM TO PERTINENT SAFETY REGULATIONS AND CODES. THE CONTRACTION ALL WORK SHALL CONFORM TO PERTINENT SAFETY REGULATIONS AND CODES. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK, AND PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA IN THE CONSTRUCTION PRACTICES FOR ALL EMPLOYEES DIRECTLY ENGAGED IN THE CONSTRUCTION OF THIS PROJECT.
- 9. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMESS FROM ANY AND ALL FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALLABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTION LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL. NEITHER THE PROFESSIONAL ACTIVITIES OF CONSULTANT NOR THE PRESENCE OF CONSULTANT OR HIS OR HER EMPLOYEES OR SUB—CONSULTANTS AT A CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR AND ITS SUBCONTRACTORS OF THEIR RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPLICABLE HEALTH OR SAFETY REQUIREMENTS OF ANY REGULATORY AGENCY OR OF STATE LAW
- 10. MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL AS-BUILT DEVIATIONS FROM THE CONSTRUCTION AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS, FOR THE PURPOSE OF PROVIDING THE ENGINEER OF RECORD WITH A BASIS FOR THE PREPARATION OF RECORD DRAWINGS.
- 11. MAINTAIN THE SITE IN A NEAT AND ORDERLY MANNER THROUGHOUT THE CONSTRUCTION PROCESS. STORE ALL MATERIALS WITHIN APPROVED STAGING AREAS.
- 12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE FULLY INFORMED OF AND TO COMPLY WITH ALL PERMIT CONDITIONS, LAWS, ORDINANCES, CODES, REQUIREMENTS AND STANDARDS, WHICH IN ANY MANNER AFFECT THE COURSE OF CONSTRUCTION OF THIS PROJECT, THOSE ENGAGED OR EMPLOYED IN THE CONSTRUCTION AND THE MATERIALS USED IN THE CONSTRUCTION
- 13. PROVIDE, AT CONTRACTOR'S SOLE EXPENSE, ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO COMPLY WITH ALL APPLICABLE PERMIT CONDITIONS AND REQUIREMENTS
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND LAYOUT, UNLESS OTHERWISE
- 15. FIELD INSPECTIONS AND OR THE PROVISION OF CONSTRUCTION STAKES DO NOT RELIEVE THE CONTRACTOR OF THEIR SOLE RESPONSIBILITY FOR ESTABLISHING ACCURATE CONSTRUCTED LINES AND GRADES, AS SPECIFIED

- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL SURVEY MONUMENTS OR PROPERTY CORNERS. DISTURBED MONUMENTS SHALL BE RESTORED BACK TO THEIR ORIGINAL LOCATION AND SHALL BE CERTIFIED BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR AT THE SOLE EXPENSE OF THE CONTRACTOR
- 17. TREE DIMENSIONS: TRUNK DIAMETERS SHOWN REPRESENT DIAMETER AT BREAST HEIGHT (DBH), MEASURED IN INCHES. DBH IS MEASURED 4.5 FT ABOVE GROUND FOR SINGLE TRUNKS AND TRUNKS THAT SPLIT INTO SEVERAL STEMS CLOSE TO THE GROUND. THE DBH FOR TREES THAT SPLIT INTO SEVERAL STEMS CLOSE TO THE GROUND MAY BE CONSOLIDATED INTO A SINGLE DBH BY TAKING THE SQUARE ROOT OF THE SUM OF ALL SOUARED STEM DBH'S, UNLESS OTHERWISE NOTED. WHERE TREES FORK NEAR BREAST HEIGHT,
 TRUNK DIAMETER IS MEASURED AT THE NARROWEST PART OF THE MAIN STEM BELOW THE FORK, FOR
 TREES ON A SLOPE, BREAST HEIGHT IS REFERENCED FROM THE UPPER SIDE OF THE SLOPE. FOR LEANING
 TREES, BREAST HEIGHT IS MEASURED ON THE SIDE THAT THE TREE LEANS TOWARD. TREES WITH DBH LESS THAN 8" ARE TYPICALLY NOT SHOWN.

12"DF = 12" DBH DOUGLAS FIR

- 18 TREE TRUNK DIMENSIONS MAY BE SHOWN OUT-OF-SCALE FOR PLOTTING CLARITY CAUTION SHOULD BE USED IN DESIGNING NEAR TREE TRUNKS. THERE ARE LIMITATIONS ON FIELD ACCURACY, DRAFTING ACCURACY, MEDIUM STRETCH AS WELL AS THE "SPREAD" OR "LEANING" OF TREES. REQUEST ADDITIONAL TOPOGRAPHIC DETAIL WHERE CLOSE TOLERANCES ARE ANTICIPATED. INDIVIDUAL TREES ARE NOT TYPICALLY LOCATED WITHIN DRIPLINE CANOPY AREAS SHOWN.
- 19. APPROXIMATE CENSUS OF TREES TO BE REMOVED:

COMMON NAME NUMBER SITKA SPRUCE

- 20. ALL STANDARD STREET MONUMENTS, LOT CORNER PIPES, AND OTHER PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED AND A RECORD OF SURVEY OR CORNER RECORD PER SECTION 8771 OF THE PROFESSIONAL LAND SURVEYORS ACT FILED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY TILLAMOOK COUNTY. COPIES OF ANY RECORD OF SURVEY OR CORNER RECORDS SHALL BE SUBMITTED TO THE COUNTY
- 21. CONTRACTOR IS REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL MADERIAL HOUSE.
- 22. CULTURAL RESOURCES: IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT—RELATED CONSTRUCTION SHALL CEASE WITHIN A 100-FOOT RADIUS. THE CONTRACTOR SHALL NOTIFY THE TILLAMOOK COUNTY CORONER AND THE OWNER'S REPRESENTIVE IMMEDIATELY

PALI CONSULTING 4891 WILLAMETTE FALLS DRIVE, SUITE 1 WEST LINN, OR 97068 (503) 502-0820 JOB No. 014-21-007

PRIOR TO PERFORMING ANY WORK, THE CONTRACTOR SHALL BE FAMILIAR WITH THE GEOTECHNICAL INVESTIGATION. IN THE EVENT OF DISCREPANCY BETWEEN THE REPORT AND THE NOTES HEREIN, THE REPORT SHALL PREVAIL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND MAKE HIS OWN INTERPRETATIONS WITH REGARD TO MATERIALS, METHODS AND EQUIPMENT NECESSARY TO PERFORM THE WORK REQUIRED FOR THIS

2. GRADING SUMMARY: TOTAL CUT VOLUME = TOTAL FILL VOLUME =

THE ABOVE QUANTITIES ARE APPROXIMATE IN-PLACE VOLUMES CALCULATED AS THE DIFFERENCE BETWEEN EXISTING GROUND AND THE PROPOSED FINISH GRADE, PREPARED FOR PERMITTING PURPOSES ONLY. EXISTING GROUND IS DEFINED BY THE TOPOGRAPHIC CONTOURS AND/OR SPOT EXCAVATION, AND RECOMPACTION, UNDERGROUND UTILITY AND SUBSTRUCTURE SPOILS AND

THE CONTRACTOR SHALL PERFORM AN INDEPENDENT FARTHWORK ESTIMATE FOR THE PURPOSE OF PREPARING BID PRICES FOR EARTHWORK. THE BID PRICE SHALL INCLUDE COSTS FOR ANY NECESSARY IMPORT AND PLACEMENT OF EARTH MATERIALS OR THE EXPORT AND PROPER DISPOSAL OF EXCESS OR UNSUITABLE EARTH MATERIALS.

- 3. PRIOR TO COMMENCING WORK, PROTECT ALL SENSITIVE AREAS TO REMAIN UNDISTURBED WITH TEMPORARY FENCING, AS SHOWN ON THE DRAWINGS, AS SPECIFIED, OR AS DIRECTED BY THE
- 6. FINE GRADING ELEVATIONS, CONFORMS, AND SLOPES NOT CLEARLY SHOWN ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD TO DIRECT DRAINAGE TO PROTECTED DRAINAGE CONTROL STRUCTURES OR NATURAL WATERWAYS IN A MANNER THAT SUPPORTS THE INTENT OF THE DESIGN. ALL FINAL GRADING SHALL BE SUBJECT TO APPROVAL OF THE

EARTHWORK NOTES

ALL GRADING SHALL COMPLY WITH THE REPORT OF GEOTECHNICAL SERVICES, AND WITH THE APPLICABLE REQUIREMENTS OF THE TILLAMOOK COUNTY GRADING ORDINANCE. REFER TO GEOTECHNICAL INVESTIGATION REPORT BY:

1.402 CY 1.324 CY 78 CY

ELEVATIONS ON THE PLAN. PROPOSED FINISH GRADE IS DEFINED AS THE DESIGN SURFACE ELEVATION OF WORK TO BE CONSTRUCTED. THE QUANTITIES HAVE NOT BEEN FACTORED TO INCLUDE ALLOWANCES FOR BULKING, CLEARING AND GRUBBING, SUBSIDENCE, SHRINKAGE, OVER CONSTRUCTION METHODS.

- 4. DO NOT DISTRURB AREAS OUTSIDE OF THE DESIGNATED LIMITS OF DISTURBANCE, UNLESS AUTHORIZED IN WRITING BY THE ENGINEER. THE COST OF ALL ADDITIONAL WORK ASSOCIATED WITH RESTORATION AND REVEGETATION OF DISTURBED AREAS OUTSIDE THE DESIGNATED LIMITS OF DISTURBANCE, AS SHOWN ON THE DRAWINGS, SHALL BE BORNE SOLELY BY THE
- 5. CLEARING AND GRUBBING, SUBGRADE PREPARATION AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, AND THESE DRAWINGS.

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BAR IS ONE INCH OF ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS 0

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OF

EXHIBIT C

Response Page

Department of State Lands (DSL) WN#*

WN2024-0484

Responsible Jurisdiction

Staff Contact

Jurisdiction Type

Municipality

Melissa Jenck

County

Tillamook

Local case file #

851-24-000171-PLNG

County

Tillamook

Activity Location

Township

Range

Section

QQ section

Tax Lot(s)

015

10W

08

100p, ROW,

Water

Street Address

Bayocean Rd

Address Line 2

City

Tillamook

Postal / Zip Code

97141

OR

Country

emperate to

Tillamook

Latitude

45.497023

Longitude

State / Province / Region

-123.930527

Wetland/Waterway/Other Water Features



- There are/may be wetlands, waterways or other water features on the property that are subject to the State Removal-Fill Law based upon a review of wetland maps, the county soil survey and other available information.
- The National Wetlands Inventory shows wetland, waterway or other water features on the property
- The National Hydrography Dataset shows wetland, waterway or other water features on the property
- The county soil survey shows hydric (wet) soils on the property. Hydric soils indicate that there may be wetlands.
- The property includes or is adjacent to designated Essential Salmonid Habitat.

The property includes or is adjacent to state-owned waters.
Your Activity
It appears that the proposed project will impact Essential Salmonid Habitat and, therefore, requires a State permit.
It appears the proposed project is within a state-owned water and may require an authorization
It appears that the proposed project will impact wetlands and requires a State Permit.
An onsite inspection by a qualified wetland consultant is recommended prior to site development to determine if the site has wetlands or other waters that may be regulated. The determination or delineation report should be submitted to DSL for review and approval. Approved maps will have a DSL stamp with approval date and expiration date. Applicable Oregon Removal-Fill Permit Requirement(s)
A state permit is required for 50 cubic yards or more of fill removal or other ground alteration in wetlands, below ordinary high water of waterways, within other waters of the state, or below highest measured tide.
A state permit is required for any amount of fill, removal, and/or other ground alteration in Essential Salmonid Habitat and within adjacent off-channel rearing or high-flow refugia habitat with a permanent or seasonal surface water connection to the stream.
DSL Review
Wetland Ecologist Comments Based on review of available information, the proposed project ("Flower Pot Creek Fish Passage Project") appears to involve impacts to waters of this state, Essential Salmonid Habitat, and state-owned waters. Given that the project involves a realignment of the channel and wetland fill, it is my understanding that a state Removal-Fill permit is required for this activity. It is recommended that the applicant either (1) hire a qualified wetland professional to prepare a wetland delineation report for DSL's review and approval, or (2) assume that all Removal-Fill activities will take place within wetlands/waters and move straight into applying for a Removal-Fill permit. If the latter is the preferred route, I recommend reaching out to Heather Dimke (503-856-6517,
heather.dimke@dsl.oregon.gov), the Aquatic Resource Coordinator for Tillamook County, to discuss the project, what type of application it fits, and proposed mitigation. This is a preliminary jurisdictional determination and is advisory only.

This report is for the State Removal-Fill law only. City or County permits may be required for the proposed activity.

A Federal permit may be required by The Army Corps of Engineers: (503)808-4373

Contact Information

For information on permitting, use of a state-owned water, wetland determination or delineation report requirements please contact the respective DSL Aquatic Resource, Proprietary or Jurisdiction Coordinator for the site county.

Response Date

8/6/2024

Response by:

Response Phone:

Jessica Salgado

541-408-1892