



Land of Cheese, Trees and Ocean Breeze

Estuary/Floodplain Development Permit Request #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*

NOTICE OF ADMINISTRATIVE REVIEW Date of Notice: July 12, 2024

Notice is hereby given that the Tillamook County Department of Community Development is considering the following:

#851-24-000171-PLNG: An Estuary and Floodplain Development Permit for the replacement of an existing culvert with a bridge located in Flower Pot Creek, a tributary to Tillamook Bay, located upon Bayocean Road. The applicant is Liz Ransom, and the property owner is Tillamook County.

Written comments received by the Department of Community Development prior to 4:00 p.m. on July 26, 2024 will be considered in rendering a decision. Comments should address the standards upon which the Department must base its decision. A decision will be rendered no sooner than the next business day, July 29, 2024.

Notice of the application, a map of the subject area, and the applicable criteria are being mailed to all property owners within 250-feet of the exterior boundaries of the subject parcel for which an application has been made and other appropriate agencies at least 14-days prior to this Department rendering a decision on the request.

A copy of the application, along with a map of the request area and the applicable criteria for review are available for inspection at the Department of Community Development office located at 1510-B Third Street, Tillamook, Oregon 97141, or on the Tillamook County Department of Community Development website: <https://www.tillamookcounty.gov/commdev/landuseapps>.

If you have any questions about this application, please call the Department of Community Development Lynn Tone, at 503-842-3408 x 3423 or lynn.tone@tillamookcounty.gov.

Sincerely,

A handwritten signature in cursive script that reads "Melissa Jenck".

Melissa Jenck, CFM, Senior Planner

Sarah Absher, CFM, Director

Enc. Maps, Applicable Ordinance Standards

Applicable Ordinances & Development Standards

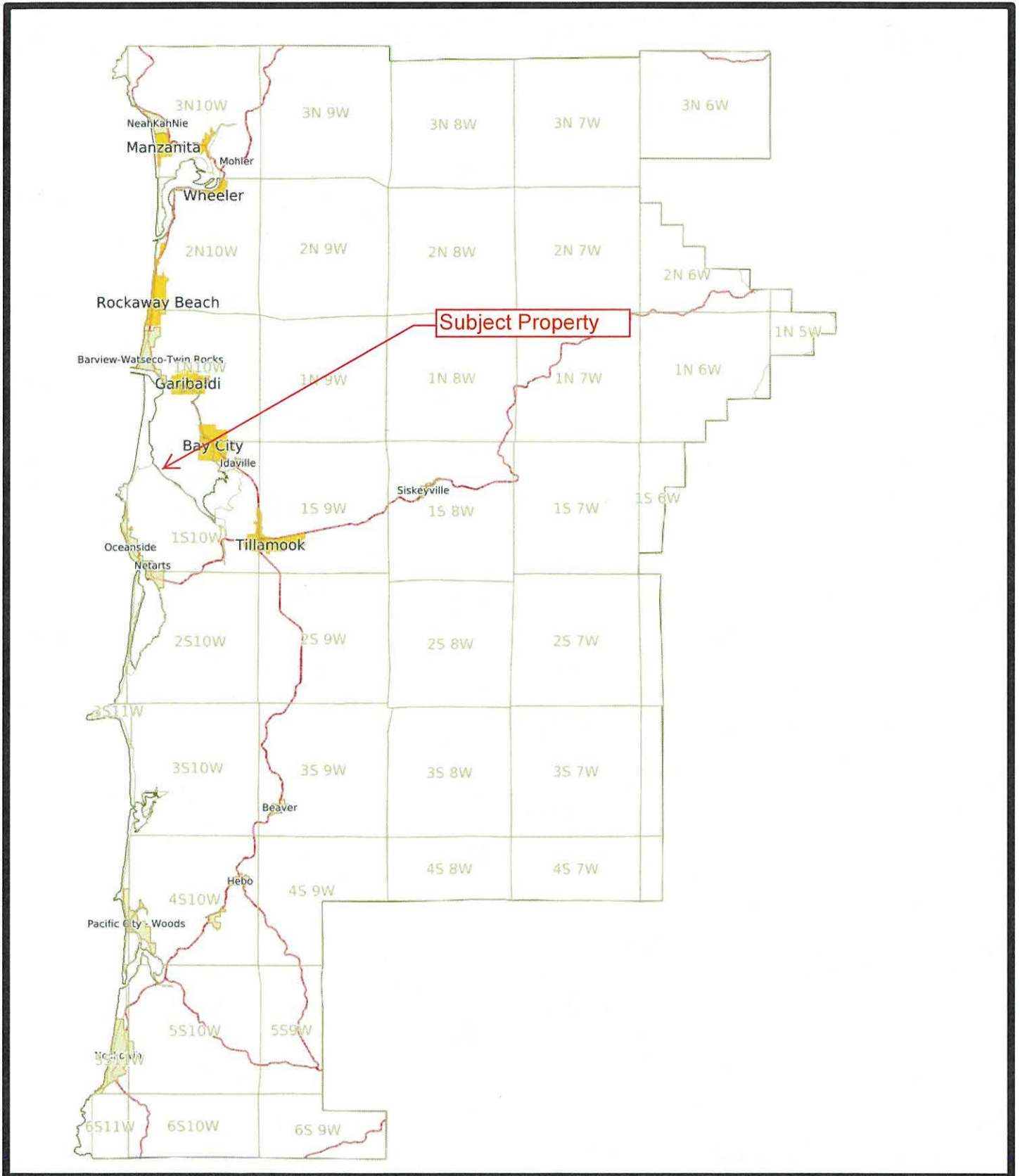
Tillamook County Land Use Ordinance (TCLUO)

<https://www.tillamookcounty.gov/commdev/page/land-use-ordinance-luo-zoning-ordinance>

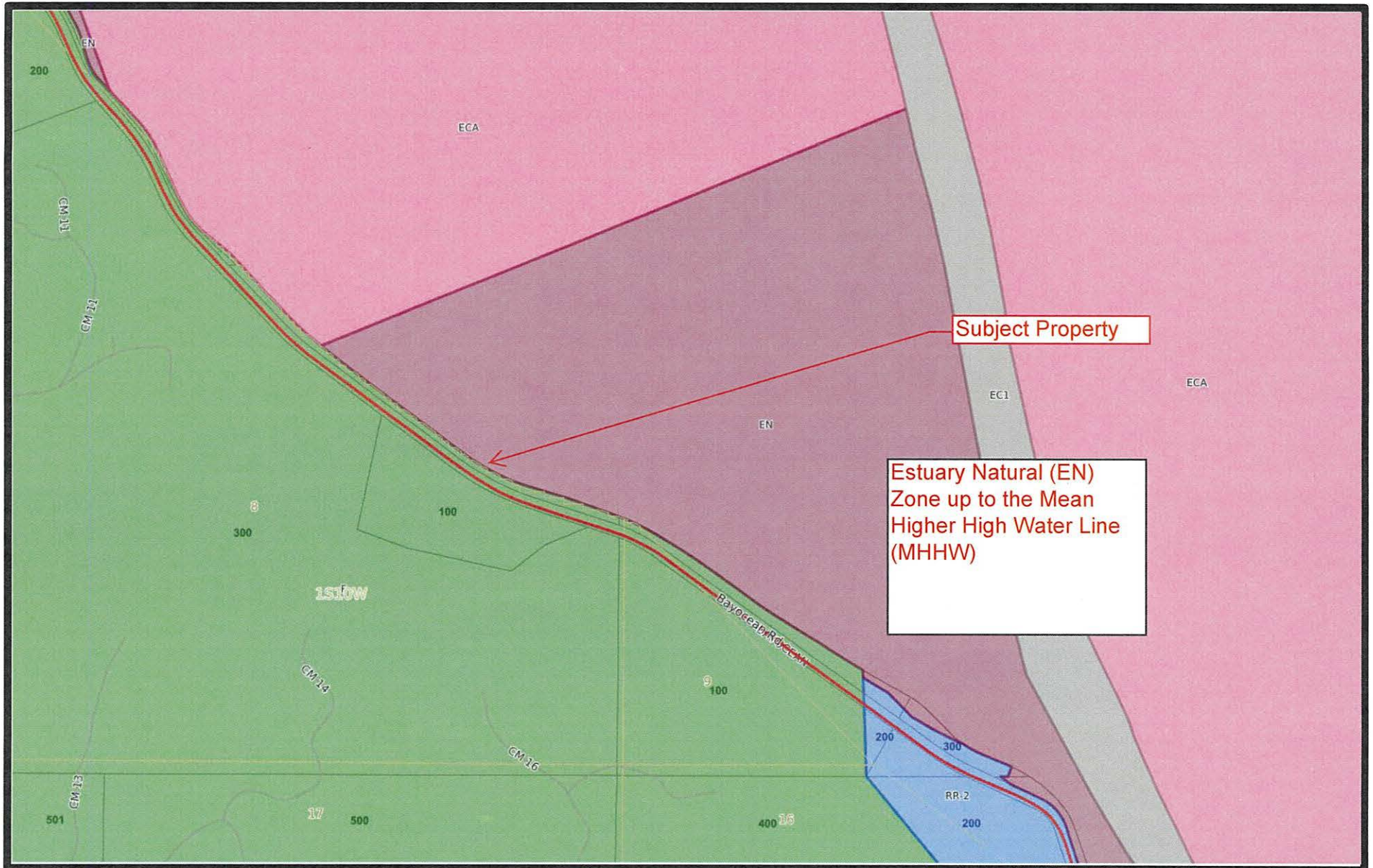
- Section 3.102: Estuary Natural (EN) Zone
- Section 3.120: Regulated Activities and Impacts Assessments
- Section 3.140: Estuary Development Standards
- Section 3.510: Flood Hazard Overlay (FH)
- Section 4.140: Requirements for Protection of Water Quality and Streambank Stabilization

EXHIBIT A

Vicinity Map



Zoning Map



National Flood Hazard Layer FIRMette



123°56'9"W 45°30'N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone .
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/12/2024 at 7:51 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

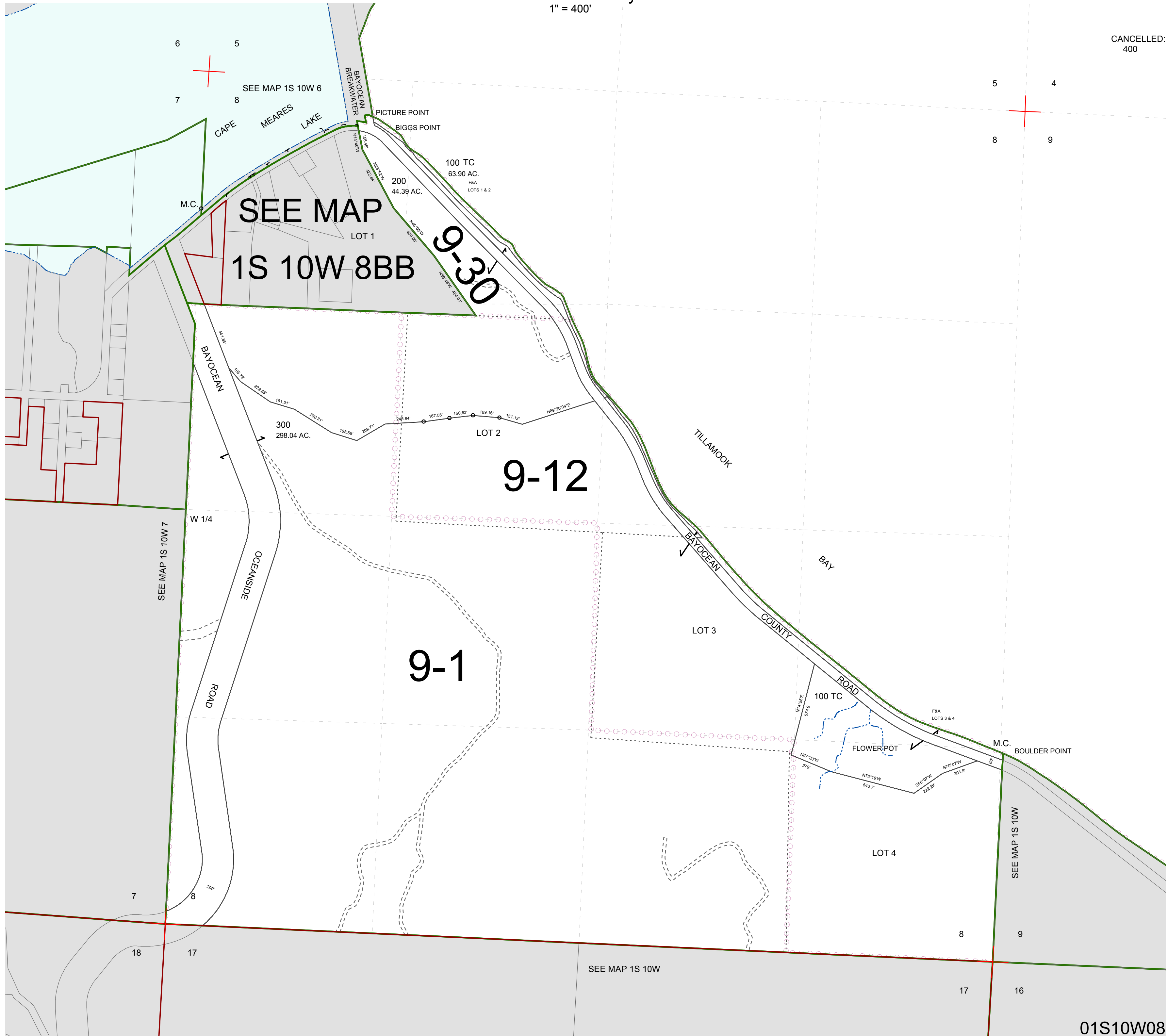
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

FOR ASSESSMENT AND TAXATION ONLY, NOT SUITABLE FOR LEGAL, ENGINEERING, OR SURVEY PURPOSES

SECTION 8 T.1S. R.10W. W.M.
Tillamook County
1" = 400'

01S10W08

CANCELLED:
400



01S10W08
REVISED 2/18/16, WS

Tillamook County
2023 Real Property Assessment Report
 Account 300613

Map 1S10080000100
Code - Tax ID 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
-------------	----------------------	-------------

Value Summary						
Code Area		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	

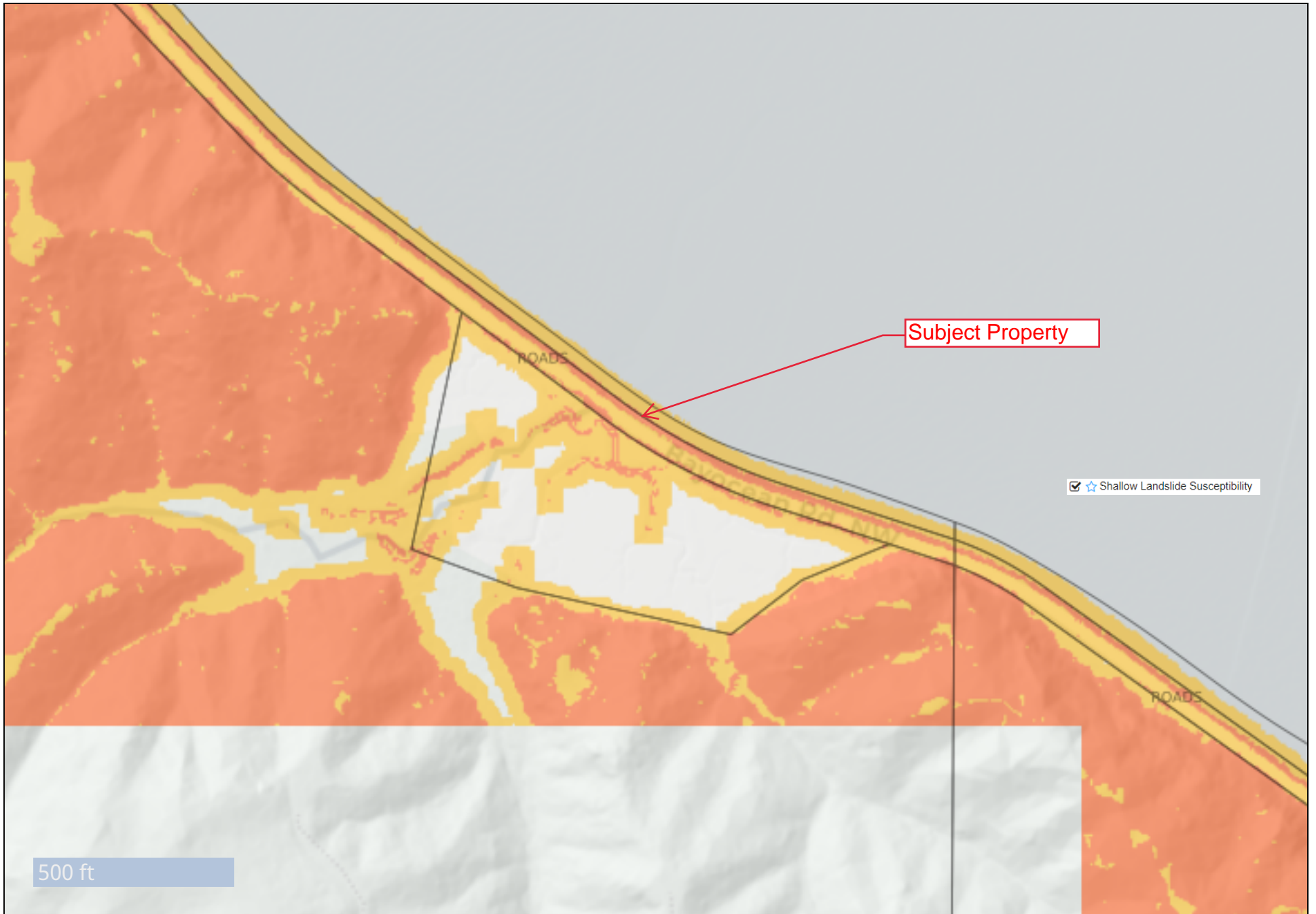
Land Breakdown									
Code Area	ID #	RFPD	Ex	Plan Zone	Value Source	Trend %	Size	Land Class	Trended RMV
0901	1	<input checked="" type="checkbox"/>		F	Market	100	63.90 AC		0
Code Area Total							63.90 AC		0

Improvement Breakdown									
Code Area	Year Built	Stat Class	Description	Trend %	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 abutting tidelands. KF
 9/11/18 - Updated MA/ST/NH combo. EJ.

Hazard Map



Disclaimer: The spatial information hosted at this website was derived from a variety of sources. Care was taken in the creation of these themes, but they are provided "as is". The state of Oregon, or any of the data providers cannot accept any responsibility for errors, omissions, or positional accuracy in the digital data or underlying records. There are no warranties, expressed or implied, including the warranty of merchantability or fitness for a particular purpose, accompanying any of these products. However, notification of any errors would be appreciated. The data are clearly not intended to indicate the authoritative location of property boundaries, the precise shape or contour of the earth or the precise location of fixed works of humans.

EXHIBIT B




DEVELOPMENT PERMIT

Applicant (Check Box if Same as Property Owner)

Name: Liz Ransom Phone: 541-691-9233
 Address: 7125 Bewely Creek Road
 City: Tillamook State: OR Zip: 97141
 Email: Liz.Ransom@TU.org

Property Owner

Name: Chris Laity Phone: 503-842-3419
 Address: 201 Laurel Ave
 City: Tillamook State: OR Zip: 97141
 Email: claity@co.tillamook.or.us

OFFICE USE ONLY	
Date Stamp	
	
<input type="checkbox"/> Approved <input type="checkbox"/> Denied	
Received by:	
Receipt #:	
Fees:	
Permit No: 851-24-0007(-PLNG)	

Description of Work: 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 a continuous fish passable grade.

Location:

Site Address: 45.497001, -123.930462

Map Number:	1S	10W	8	100
	Township	Range	Section	Tax Lot(s)

Complete all applicable fields:

Regulatory Floodway:	Estuary: <input checked="" type="checkbox"/>	Floodplain: <input checked="" type="checkbox"/>
New: <input type="checkbox"/>	Addition: <input checked="" type="checkbox"/>	Replacement: <input type="checkbox"/>
Remodel: <input type="checkbox"/>	Demolish: <input type="checkbox"/>	
Dwelling:	Accessory Structure:	
Culvert Diameter: 4'D, 56'L	Bridge Length:	
Length:	Width:	
Fence Height:	Retaining Wall Height:	
Streambank Stabilization:	Other:	
Fill/Removal/Grading: ¹⁴⁰² / ₁₃₂₄ CY	Vegetation Removal: CY	

Flood Insurance Rate Map (FIRM) Panel Info

Tillamook County	Panel Number: 41057C
Effective Date:	Property Flood Zone(s):
Floodway: Y N	Project Flood Zone(s):
Stream/Waterbody Name:	

Elevation Data (NAVD 88)

Base Flood Elevation:	First Habitable Floor:
Lowest Floor/Horizontal Member:	
Enclosed Area:	Flood Vent Area:

Structure/Damage \$:	5 Year Construction \$:
<i>Substantial improvement/damage threshold 50% cost vs. value</i>	

Other Required Permits

Authorization

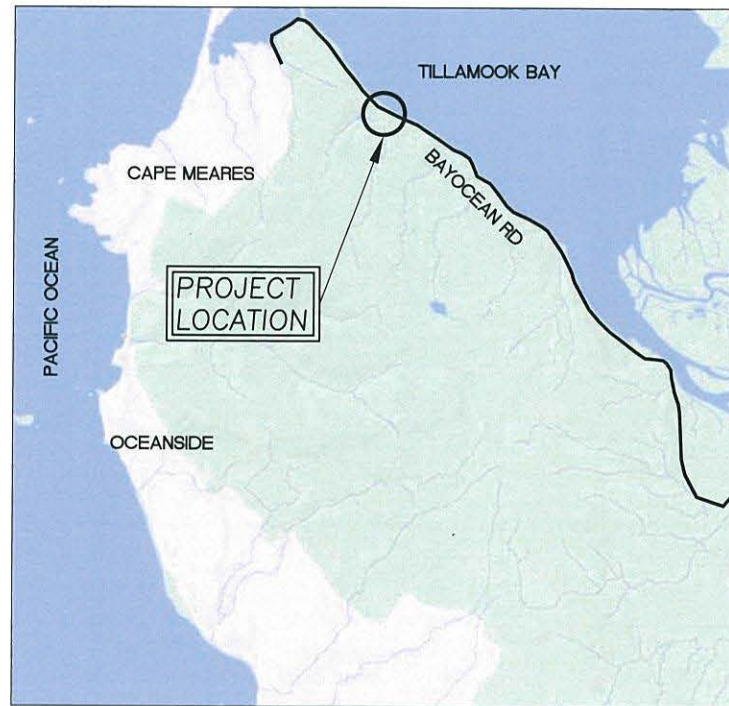
This permit application does not assure permit approval. The applicant and/or property owner shall be responsible for obtaining any other necessary federal, state, and local permits. The applicant verifies that the information submitted is complete, accurate, and consistent with other information submitted with this application.

Property Owner Signature (Required) CHRIS LAITY Date 9.25.23

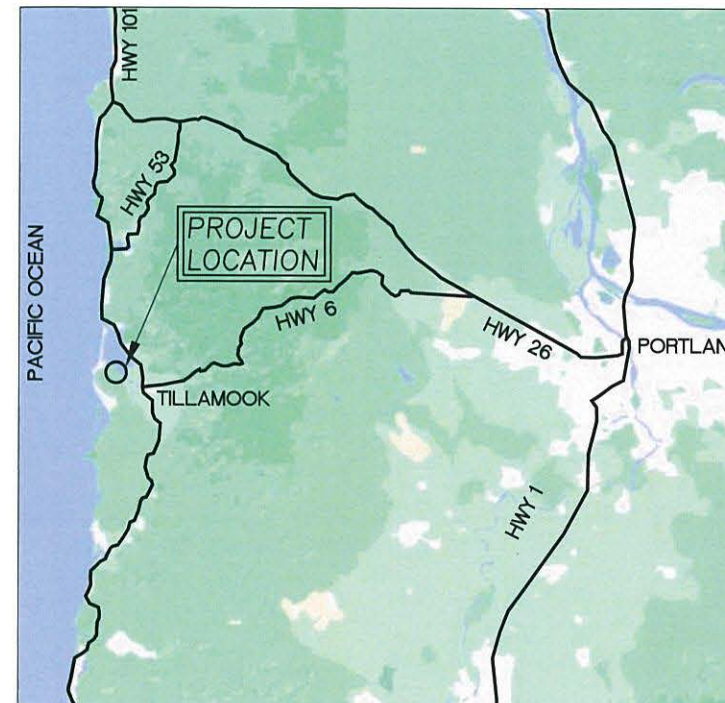
Applicant Signature _____ Date _____

FLOWER POT CREEK FISH PASSAGE PROJECT

90% DESIGN SUBMITTAL



VICINITY MAP
N.T.S. (GOOGLE)



REGIONAL MAP
N.T.S. (GOOGLE)

GENERAL NOTES

- TOPOGRAPHIC MAPPING WAS PERFORMED BY: WATERWAYS CONSULTING, INC. 1020 SW TAYLOR ST., SUITE 380 PORTLAND, OR 97205 SURVEY DATES: APRIL 28, AND MAY 6, 2022.
- ELEVATION DATUM: NAVD88.
- HORIZONTAL DATUM: OREGON STATE PLANE, NORTH ZONE NAD83.
- AERIAL PHOTO SOURCE: AUTOCAD CIVIL3D GEOLOCATION MAP
- CONTOUR INTERVAL IS ONE FOOT. ELEVATIONS AND DISTANCES SHOWN ARE IN DECIMAL FEET.
- 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 TRANSPORTATION (HEREAFTER REFERRED TO AS "STANDARD SPECIFICATIONS").
- THESE DESIGNS ARE INCOMPLETE WITHOUT THE FINAL STAMPED SPECIAL PROVISIONS PREPARED BY WATERWAYS CONSULTING, INC. REFER TO SPECIFICATIONS FOR DETAILS NOT SHOWN HEREON.

PROPERTY AND ROW MAPPING BY:
STATEWIDE LAND SURVEYING, INC.
43 NW AVA AVE.
GRESHAM, OR 97030
SURVEY DATE: 7/6/2022

LIDAR MAPPING BY:
WATERSHED SCIENCES, INC.
506 2ND AVE #2700
SEATTLE, WA 98104
SURVEY DATE: 2009

ABBREVIATIONS

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

TREE SPECIES	
A	ALDER
DF	DOUGLAS FIR
S	SPRUCE
T	TREE (SPECIES UNKNOWN)

PROJECT DESCRIPTION

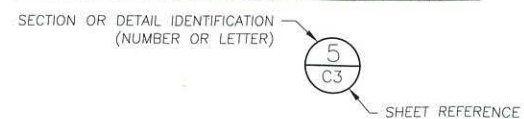
THESE DRAWINGS PROVIDE DESIGN DETAILS FOR A FISH PASSAGE IMPROVEMENT PROJECT ALONG BAYOCEAN ROAD AT THE FLOWER POT CREEK CONFLUENCE TILLAMOOK BAY IN TILLAMOOK COUNTY, OREGON.

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.

SHEET INDEX

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R1	ALIGNMENT
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S1	GENERAL NOTES
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S6	BENT DETAILS
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S8	WINGWALL DETAILS

SECTION AND DETAIL CONVENTION



*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
PRIOR TO ANY CONSTRUCTION WORK 1-800-332-2344

PRELIMINARY
NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF:
TROUT UNLIMITED

COVER

FLOWER POT CREEK FISH
PASSAGE PROJECT
90% DESIGN SUBMITTAL

DESIGNED BY: J.H.
DRAWN BY: D.H.
CHECKED BY: J.H.
DATE: 11/16/2023
JOB NO.: 21-078

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

0 1" = 1"

C1 1 OF 17

PRELIMINARY
NOT FOR CONSTRUCTION

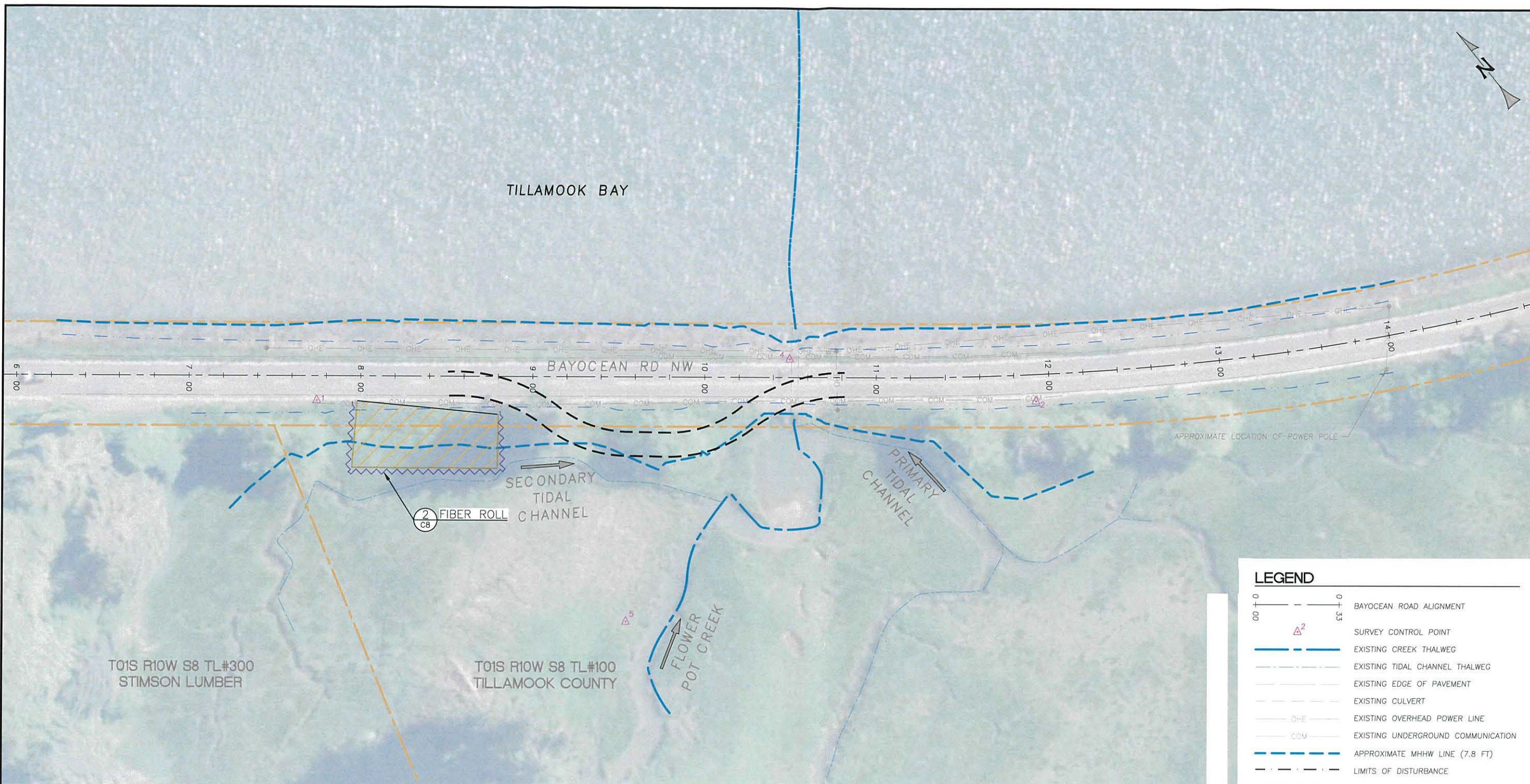
PREPARED AT THE REQUEST OF:
TROUT UNLIMITED

OVERVIEW AND
STAGING PLAN

FLOWER POT CREEK FISH
PASSAGE PROJECT
90% DESIGN SUBMITTAL

DESIGNED BY: J.H.
DRAWN BY: D.H.
CHECKED BY: J.H.
DATE: 11/16/2023
JOB NO.: 21-078

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



OVERVIEW AND STAGING PLAN
SCALE: 1" = 30'

ACCESS AND STAGING AREA NOTES

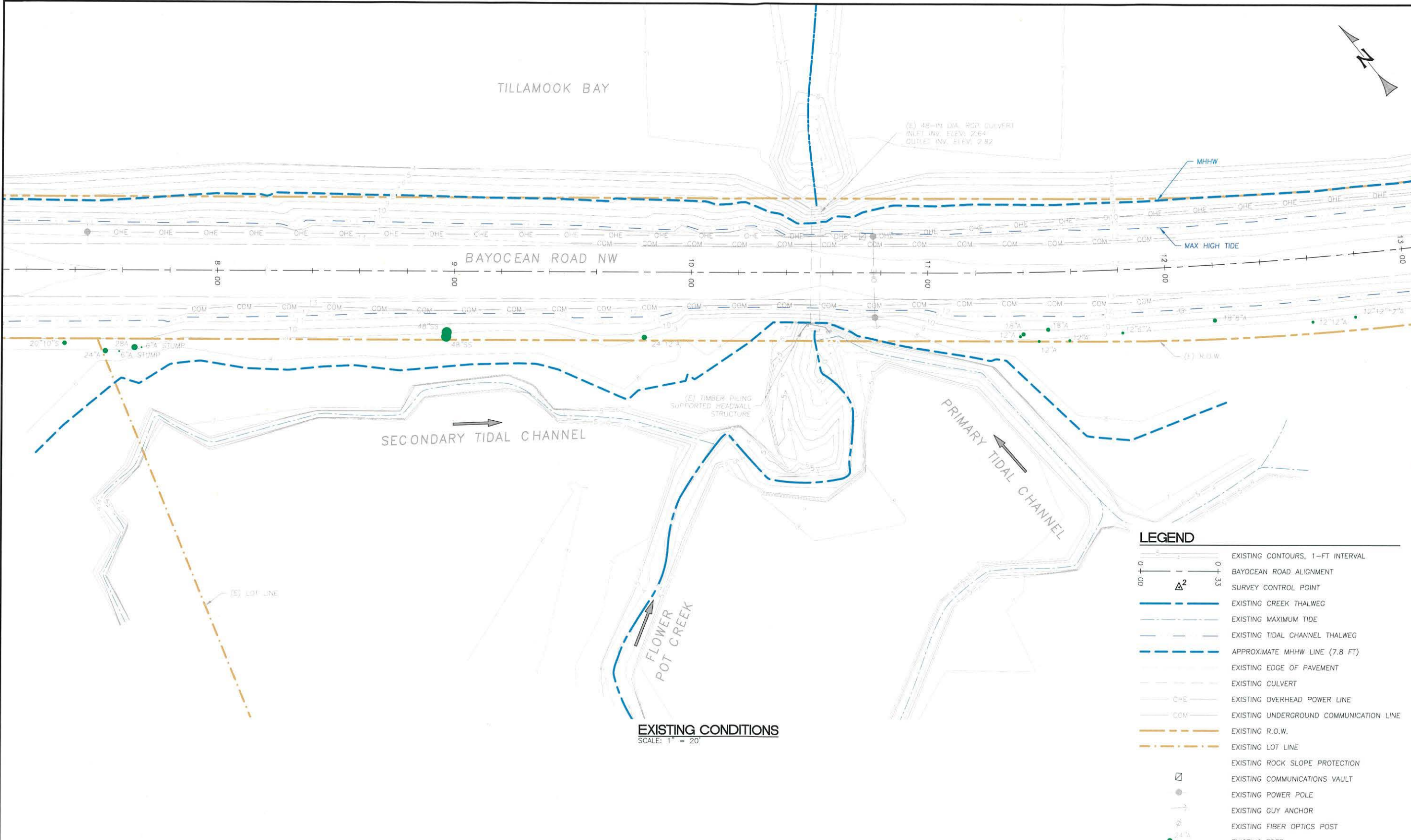
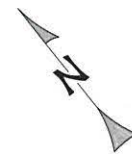
1. USE ONLY THE APPROVED ACCESS POINTS, AS SHOWN ON THE DRAWINGS. STOCKPILE MATERIALS WITHIN AN EXISTING FLAT AND PREVIOUSLY DISTURBED AREA.
2. THE ACCESS PLAN SHOWN ON THE DRAWINGS IS SCHEMATIC. SUBMIT A SITE ACCESS PLAN FOR APPROVAL BY THE ENGINEER, PRIOR TO MOBILIZATION.
3. CONTAIN THE DOWNSLOPE PERIMETER OF STAGING OR STOCKPILE AREAS WITH STRAW WATTLES.
4. STORE, MAINTAIN AND REFUEL ALL EQUIPMENT AND MATERIALS IN A DESIGNATED PORTION OF THE STAGING AREA.
5. COORDINATE WITH UTILITIES FOR TEMPORARY RELOCATION OF SERVICES DURING CONSTRUCTION.
6. INSTALL GEOTEXTILE SEPARATION FABRIC OVER EXISTING GROUND PRIOR TO PLACING ANY TEMPORARY FILL ON SURFACES BELOW THE MHHW LINE. REMOVE FILL AND FABRIC FOLLOWING CONSTRUCTION.
7. SEE T SHEETS FOR TEMPORARY TRAFFIC BYPASS ROAD

CONTROL POINTS

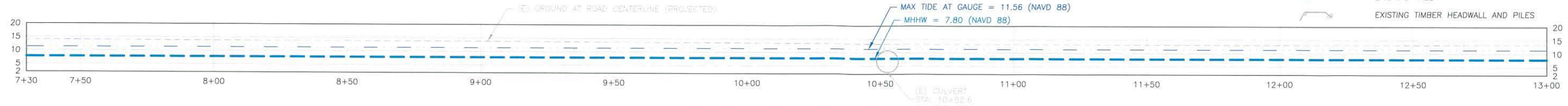
POINT	NORTHING	EASTING	ELEV.	DESC.
1	686128.30	7322519.19	13.34	REBAR
2	685866.84	7322845.94	12.19	REBAR
4	685975.24	7322749.22	12.98	MAG
5	685915.44	7322579.74	7.74	REBAR

LEGEND

- 0+00 — 0+33 BAYOCEAN ROAD ALIGNMENT
- △² SURVEY CONTROL POINT
- EXISTING CREEK THALWEG
- - - EXISTING TIDAL CHANNEL THALWEG
- - - EXISTING EDGE OF PAVEMENT
- - - EXISTING CULVERT
- OHE EXISTING OVERHEAD POWER LINE
- COM EXISTING UNDERGROUND COMMUNICATION
- APPROXIMATE MHHW LINE (7.8 FT)
- - - LIMITS OF DISTURBANCE
- - - TEMPORARY TRAFFIC BYPASS ROAD
- - - EXISTING R.O.W.
- - - EXISTING LOT LINE
- ▨ FIBER ROLL
- ▨ TEMPORARY CONSTRUCTION STAGING AND STOCKPILE AREA
- ⊕ EXISTING COMMUNICATIONS VAULT
- ⊙ EXISTING POWER POLE
- ⊙ EXISTING GUY ANCHOR
- ⊙ EXISTING FIBER OPTICS POST



EXISTING CONDITIONS
 SCALE: 1" = 20'



EXISTING ROAD PROFILE
 SCALE: 1" = 20'

LEGEND

	EXISTING CONTOURS, 1-FT INTERVAL
	BAYOCEAN ROAD ALIGNMENT
	SURVEY CONTROL POINT
	EXISTING CREEK THALWEG
	EXISTING MAXIMUM TIDE
	EXISTING TIDAL CHANNEL THALWEG
	APPROXIMATE MHHW LINE (7.8 FT)
	EXISTING EDGE OF PAVEMENT
	EXISTING CULVERT
	EXISTING OVERHEAD POWER LINE
	EXISTING UNDERGROUND COMMUNICATION LINE
	EXISTING R.O.W.
	EXISTING LOT LINE
	EXISTING ROCK SLOPE PROTECTION
	EXISTING COMMUNICATIONS VAULT
	EXISTING POWER POLE
	EXISTING GUY ANCHOR
	EXISTING FIBER OPTICS POST
	EXISTING TREE
	EXISTING TIMBER HEADWALL AND PILES

PRELIMINARY
 NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF:
 TROUT UNLIMITED

EXISTING
 CONDITIONS

FLOWER POT CREEK FISH
 PASSAGE PROJECT
 90% DESIGN SUBMITTAL

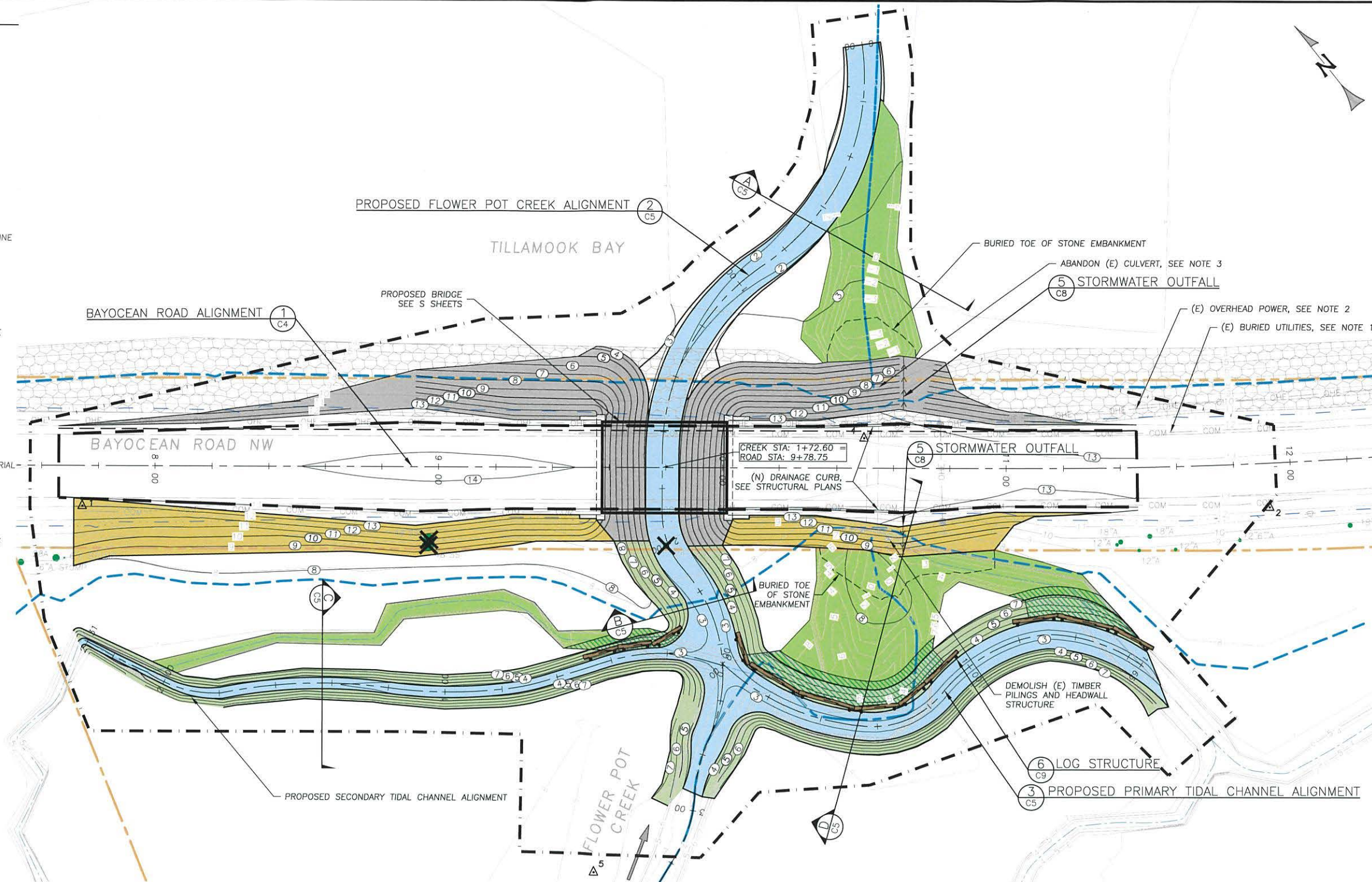
DESIGNED BY: J.H.
 DRAWN BY: D.H.
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 DATE: 11/16/2023
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BAR IS ONE INCH ON
 ORIGINAL DRAWING.
 ADJUST SCALES FOR
 REDUCED PLOTS

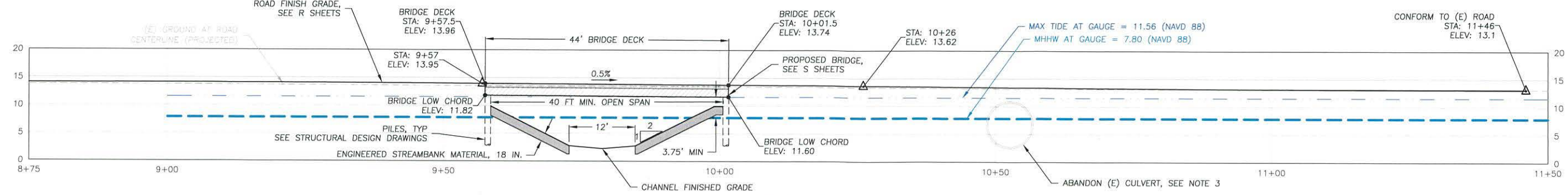
LEGEND

- EXISTING CONTOURS, 1-FT INTERVAL
- PROPOSED CONTOURS, 1-FT INTERVAL
- PROPOSED ALIGNMENT
- SURVEY CONTROL POINT
- EXISTING PRIMARY THALWEG
- APPROXIMATE MHHW LINE (7.8 FT)
- EXISTING SECONDARY THALWEG
- EXISTING EDGE OF PAVEMENT
- EXISTING CULVERT
- EXISTING OVERHEAD POWER LINE
- EXISTING UNDERGROUND COMMUNICATION LINE
- EXISTING R.O.W.
- EXISTING LOT LINE
- LIMITS OF DISTURBANCE
- PROPOSED LIMITS OF NEW PAVING
- PROPOSED BURIED ROAD EMBANKMENT TOE
- PROPOSED STORMWATER OUTFALL
- EXISTING ROCK SLOPE PROTECTION
- PROPOSED CHANNEL BOTTOM
- PROPOSED CHANNEL BANKS
- PROPOSED WETLAND TOPSOIL FILL
- PROPOSED STONE EMBANKMENT
- PROPOSED ENGINEERED STREAMBANK MATERIAL
- PROPOSED SOD MAT
- PROPOSED BRIDGE
- PROPOSED LOG STRUCTURE
- PROPOSED DRAINAGE CURB, SEE R SHEETS
- EXISTING COMMUNICATIONS VAULT
- EXISTING POWER POLE
- EXISTING GUY ANCHOR
- EXISTING FIBER OPTICS POST
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- EXISTING TIMBER HEADWALL AND PILES

- NOTES:**
- POTHOLE LOCATIONS OF BURIED UTILITIES PRIOR TO EARTHWORK AND COORDINATE WITH UTILITIES ON TEMPORARY RELOCATION APPROACH.
 - COORDINATE WITH TILLAMOOK PUD FOR RELOCATING OVERHEAD POWER LINES BEFORE CONSTRUCTION.
 - INSTALL WATERTIGHT PLUG ON ENDS OF THE (E) CULVERT, PUMP REMAINING WATER FROM THE PIPE, AND FILL THE PIPE WITH CONTROLLED LOW STRENGTH MATERIAL BEFORE ABANDONING IN PLACE.
 - SALVAGE TOP 12 INCHES FROM STRIPPING OPERATIONS FOR REUSE AS SOD MATS.
 - GUARDRAILS OMITTED FOR GRAPHICAL CLARITY.



CREEK GRADING PLAN
SCALE: 1" = 20'



ROAD PROFILE
SCALE: 1" = 10'

PRELIMINARY
NOT FOR CONSTRUCTION

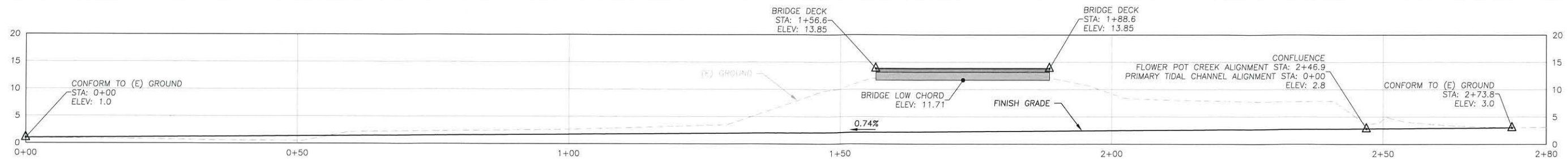
PREPARED AT THE REQUEST OF:
TROUT UNLIMITED

CREEK
GRADING PLAN
AND ROAD
PROFILE

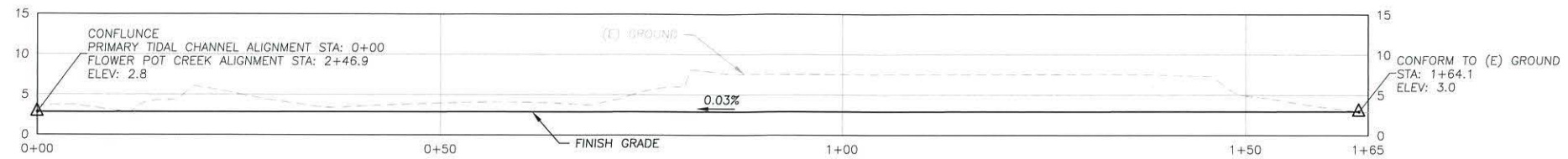
FLOWER POT CREEK FISH
PASSAGE PROJECT
90% DESIGN SUBMITAL

DESIGNED BY: J.H.
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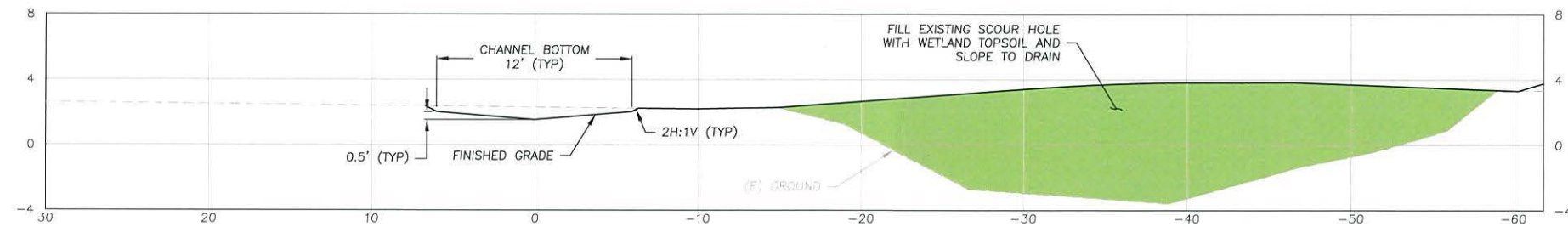
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS



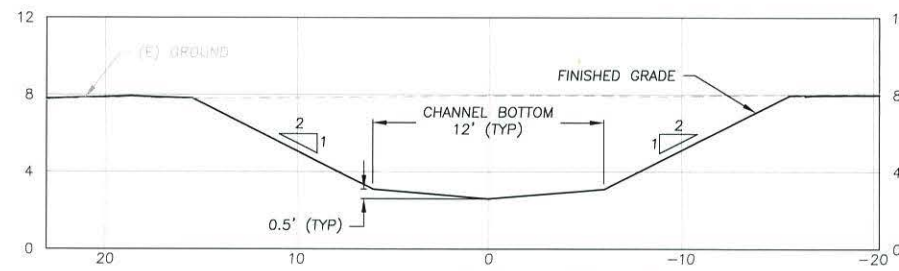
PROPOSED FLOWER POT CREEK PROFILE (2)
SCALE: 1" = 10'



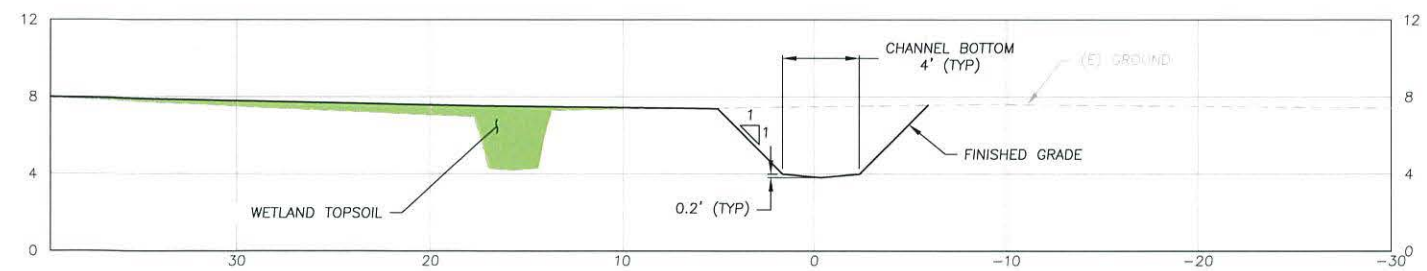
PROPOSED PRIMARY TIDAL CHANNEL PROFILE (3)
SCALE: 1" = 10'



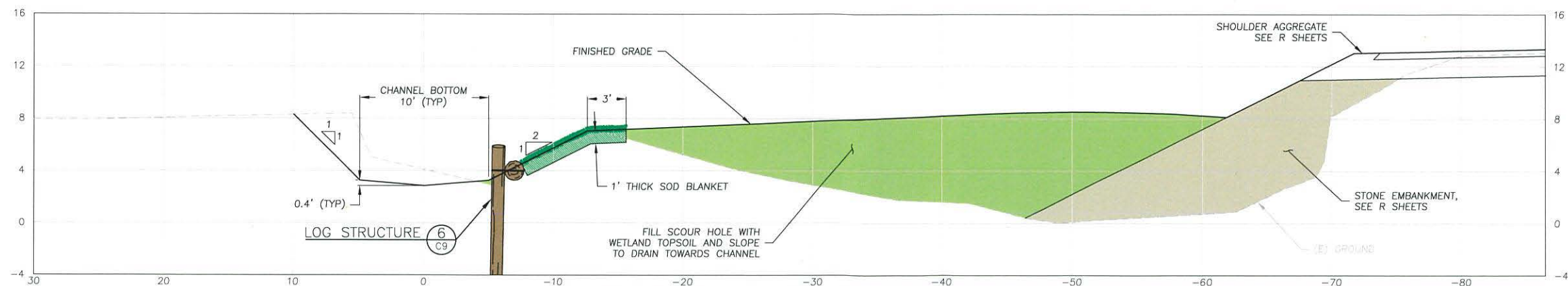
DOWNSTREAM FLOWER POT CREEK SECTION (A)
SCALE: 1" = 5'



UPSTREAM FLOWER POT CREEK SECTION (B)
SCALE: 1" = 5'



SECONDARY TIDAL CHANNEL SECTION (C)
SCALE: 1" = 5'



PRIMARY TIDAL CHANNEL SECTION (D)
SCALE: 1" = 5'

PRELIMINARY
NOT FOR CONSTRUCTION

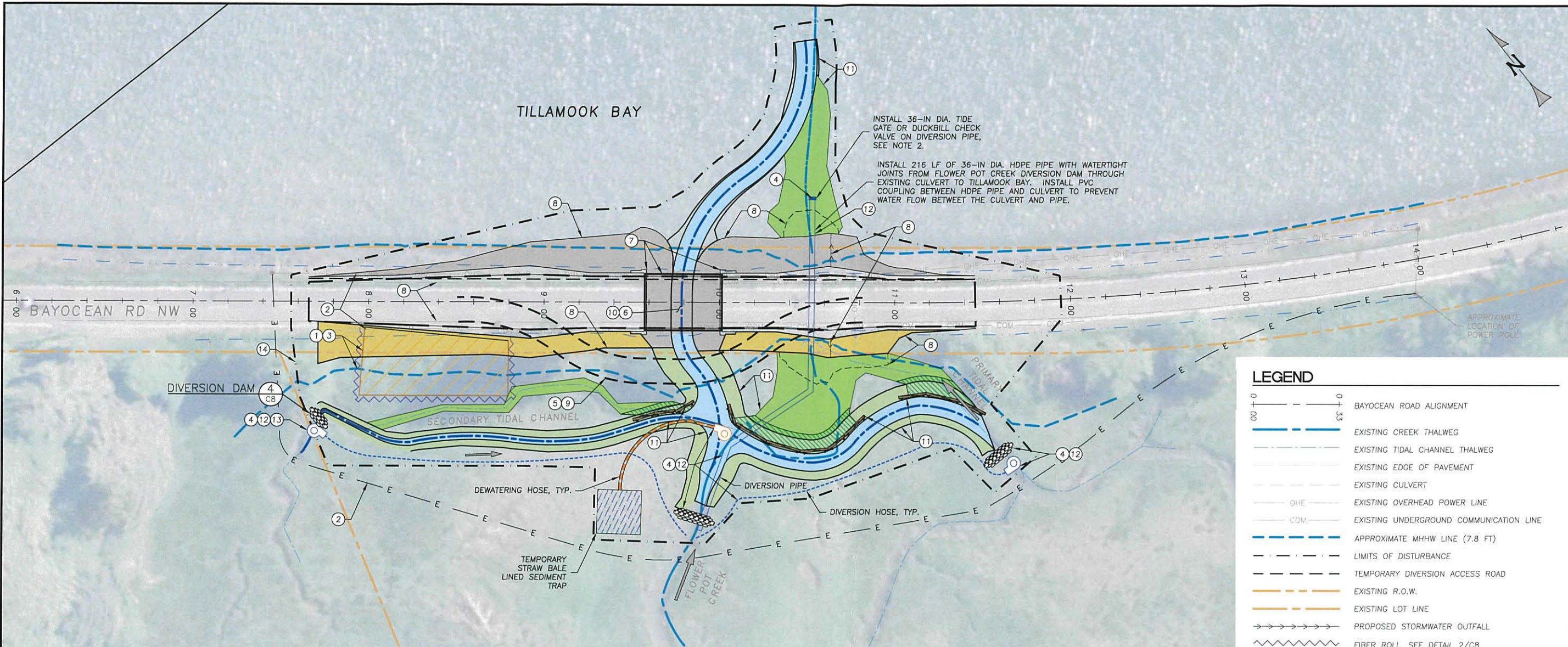
PREPARED AT THE REQUEST OF:
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CREEK PROFILE AND SECTIONS

FLOWER POT CREEK FISH PASSAGE PROJECT
90% DESIGN SUBMITTAL

DESIGNED BY: J.H.
DRAWN BY: D.H.
CHECKED BY: J.H.
DATE: 11/16/2023
JOB NO.: 21-078

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



CONSTRUCTION SEQUENCING, EROSION CONTROL, AND DEWATERING PLAN
SCALE: 1" = 30'

LEGEND

0+00	0+35	BAYOCEAN ROAD ALIGNMENT
---	---	EXISTING CREEK THALWEG
---	---	EXISTING TIDAL CHANNEL THALWEG
---	---	EXISTING EDGE OF PAVEMENT
---	---	EXISTING CULVERT
OHE	OHE	EXISTING OVERHEAD POWER LINE
COM	COM	EXISTING UNDERGROUND COMMUNICATION LINE
---	---	APPROXIMATE MHHW LINE (7.8 FT)
---	---	LIMITS OF DISTURBANCE
---	---	TEMPORARY DIVERSION ACCESS ROAD
---	---	EXISTING R.O.W.
---	---	EXISTING LOT LINE
---	---	PROPOSED STORMWATER OUTFALL
---	---	FIBER ROLL, SEE DETAIL 2/CB
E	E	TEMPORARY ELECTRICAL BYPASS LINE, BY TPUD
---	---	PROPOSED CHANNEL BOTTOM
---	---	PROPOSED CHANNEL BANKS
---	---	PROPOSED WETLAND TOPSOIL FILL
---	---	PROPOSED STONE EMBANKMENT
---	---	PROPOSED ENGINEERED STREAMBANK MATERIAL
---	---	PROPOSED BRIDGE
---	---	PROPOSED SOD MAT
---	---	TEMPORARY CONSTRUCTION STAGING AND STOCKPILE AREA
---	---	EXISTING COMMUNICATIONS VAULT
---	---	EXISTING POWER POLE
---	---	EXISTING GUY ANCHOR
---	---	EXISTING FIBER OPTICS POST
---	---	EXISTING TIMBER HEADWALL AND PILES
---	---	PROPOSED LOG STRUCTURE
---	---	PROPOSED DRAINAGE CURB
---	---	TEMPORARY SANDBAG BERM
---	---	TEMPORARY DIVERSION PUMP
---	---	TEMPORARY DIVERSION HOSE/PIPE
---	---	TEMPORARY DEWATERING PUMP
---	---	TEMPORARY DEWATERING HOSE
---	---	TEMPORARY DEWATERING PIPE
---	---	TEMPORARY SEDIMENT TRAP

(X) CONSTRUCTION PHASING PLAN KEY NOTES

- THE FOLLOWING NOTES DETAIL THE RECOMMENDED SEQUENCE OF CONSTRUCTION TO CONTROL EROSION AND SEDIMENT FROM LEAVING THE PROJECT AREA DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT THE ANTICIPATED CONSTRUCTION SEQUENCING STRATEGY WITH THE CONSTRUCTION SCHEDULE FOR REVIEW BY THE ENGINEER.
1. PREPARE THE STAGING AREA AND INSTALL TEMPORARY EROSION CONTROL MATERIALS AND BMPS.
 2. COORDINATE WITH TPUD AND OTHER UTILITIES TO TEMPORARILY REROUTE THE UTILITIES AROUND THE WORK AREA.
 3. MOBILIZE HEAVY EQUIPMENT TO THE SITE.
 4. INSTALL CREEK DIVERSION AND DEWATERING EQUIPMENT.
 5. INSTALL THE TEMPORARY TRAFFIC BYPASS ROAD AND ASSOCIATED TEMPORARY TRAFFIC CONTROL SIGNS AND EQUIPMENT PER THE APPROVED TRAFFIC CONTROL PLAN.
 6. EXCAVATE ROAD FILL FOR BRIDGE INSTALLATION
 7. INSTALL THE BRIDGE PILES, CAP BEAMS, WINGWALLS, AND BRIDGE DECK.
 8. COMPLETE ROAD FILL, ENGINEERED STREAMBANK MATERIAL, PAVING, TRAFFIC SAFETY FEATURES, AND STORMWATER CONVEYANCE FEATURES.
 9. REMOVE TEMPORARY TRAFFIC BYPASS ROAD.
 10. EXCAVATE CHANNEL AND INSTALL ENGINEERED STREAMBANK MATERIAL UNDER THE BRIDGE.
 11. EXCAVATE REMAINING NEW CREEK AND TIDAL CHANNELS, FILL THE EXISTING CHANNELS, AND INSTALL BANK PROTECTION LOG STRUCTURES, AND SOD MATS.
 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 DISTURBANCE.

NOTES:

1. PERFORM ALL EARTHWORK ON TILLAMOOK BAY SIDE OF PROJECT DURING OUTGOING TIDES.
2. INSTALL A TIDE GATE, CHECK VALVE, OR OTHER DEVICE TO PREVENT TIDAL FLOW INTO THE DIVERSION PIPE.
3. PROVIDE SUPPLEMENTARY DIVERSION PUMPING FROM FLOWER POT CREEK TO TILLAMOOK BAY WHEN CREEK FLOW VOLUMES EXCEED THE CAPACITY OF THE DIVERSION PIPE GRAVITY DRAINAGE.
4. SEE SHEET C7 FOR SEEDING NOTES AND TABLES.

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CONSTRUCTION SEQUENCING, EROSION CONTROL, AND DEWATERING PLAN

FLOWER POT CREEK FISH PASSAGE PROJECT
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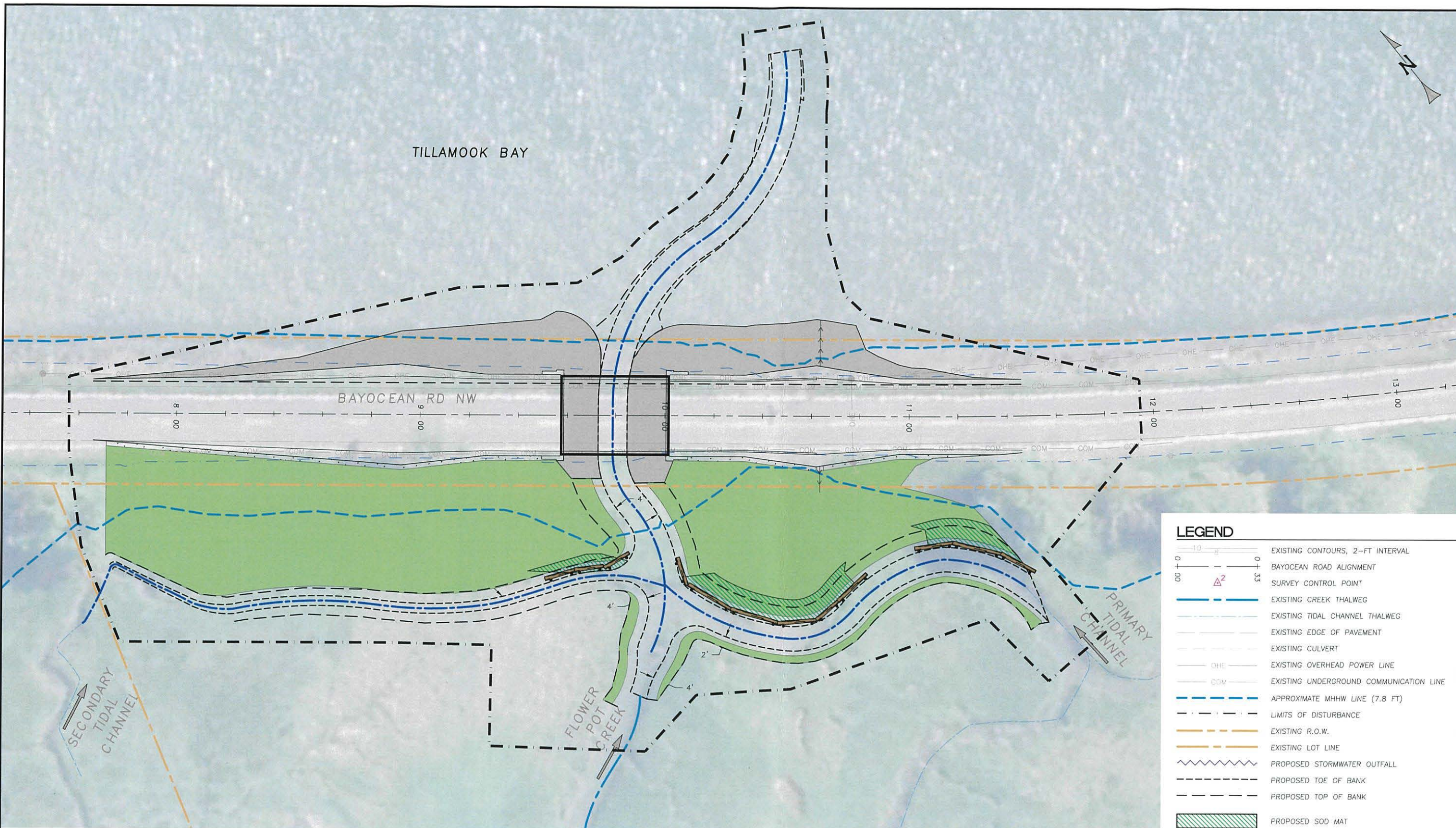
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REVEGETATION PLAN

FLOWER POT CREEK FISH PASSAGE PROJECT
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LEGEND

- EXISTING CONTOURS, 2'-FT INTERVAL
- BAYOCEAN ROAD ALIGNMENT
- SURVEY CONTROL POINT
- EXISTING CREEK THALWEG
- EXISTING TIDAL CHANNEL THALWEG
- EXISTING EDGE OF PAVEMENT
- EXISTING CULVERT
- EXISTING OVERHEAD POWER LINE
- EXISTING UNDERGROUND COMMUNICATION LINE
- APPROXIMATE MHHW LINE (7.8 FT)
- LIMITS OF DISTURBANCE
- EXISTING R.O.W.
- EXISTING LOT LINE
- PROPOSED STORMWATER OUTFALL
- PROPOSED TOE OF BANK
- PROPOSED TOP OF BANK
- PROPOSED SOD MAT
- PROPOSED ENGINEERED STREAMBANK MATERIAL
- PROPOSED SEEDING AREA (0.4 ACRE)
- PROPOSED PLANTING AREA (0.1 ACRE)
- EXISTING COMMUNICATIONS VAULT
- EXISTING POWER POLE
- EXISTING GUY ANCHOR
- EXISTING FIBER OPTICS POST
- PROPOSED LOG STRUCTURE
- PROPOSED DRAINAGE CURB

REVEGETATION PLAN
 SCALE: 1" = 20'

TABLE 1: SEED MIX

COMMON NAME	SCIENTIFIC NAME	% COMPOSITION (BY WEIGHT)
AMERICAN DUNEGRASS	ELYMUS MOLLIS	25
TUFTED HAIRGRASS	CAREX LYNGBYEI	25
THREE SQUARE BULLRUSH	SCHOENOPLECTUS AMERICANUS	25
PACIFIC REEDGRASS	CALAMAGROSTIS NUTKAENESIS	25

*APPLY SEED MIX AT A RATE OF 40 LBS/ACRE

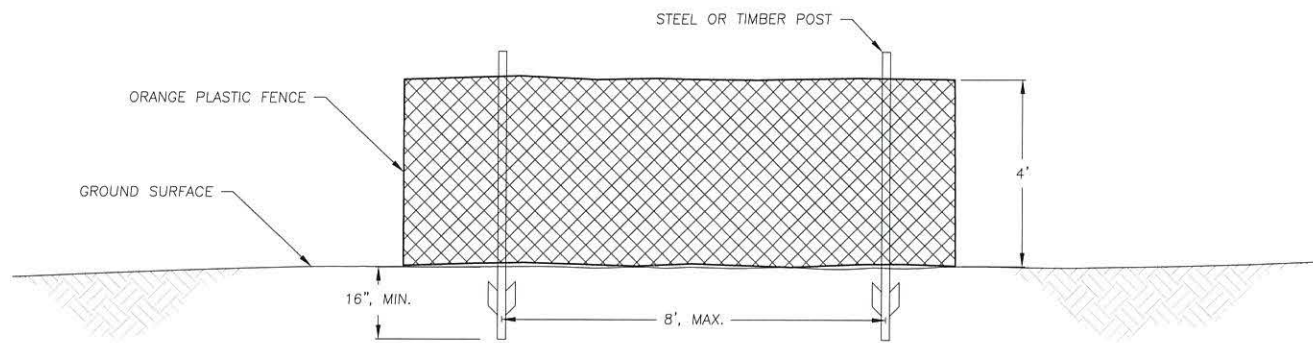
SEEDING NOTES

- SEEDING SHALL NOT BE REQUIRED FOR AREAS WHERE SOIL IS SPREAD TO A DEPTH EQUAL TO OR LESS THAN 3" OVER EXISTING VEGETATED SURFACES.
- NO SEEDING SHALL BE PLACED ON THE BASE OF CHANNELS AND THE FIRST TWO (2) VERTICAL FEET ABOVE THE BASE OF THE CHANNELS. NO SEEDING SHALL BE PLACED NORTHEAST OF THE ROAD (WITHIN TILLAMOOK BAY). ALL OTHER EXPOSED SOILS SHALL BE SEEDING AND MULCHED.
- EVENLY APPLY STRAW MULCH WITHIN 24 HOURS AFTER SEEDING.

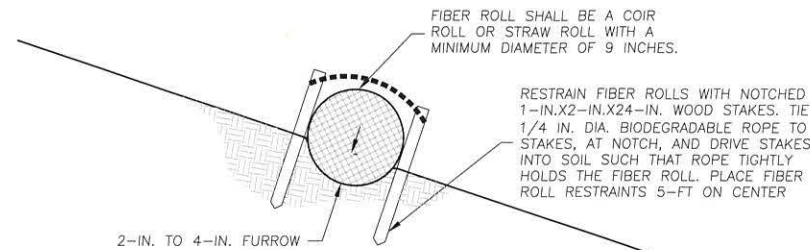
TABLE 2: PLANTING

SCIENTIFIC NAME	COMMON NAME	O.C. SPACING	# OF PLANTS	CONTAINER TYPE
GAULTHERIA SHALLON	SALAL	6'	200	1 GAL
RIBES LACUSTRE	SWAMP GOOSEBERRY	6'	200	1 GAL
RUBUS URSINUS	TRAILING BLACKBERRY	3'	400	1 GAL

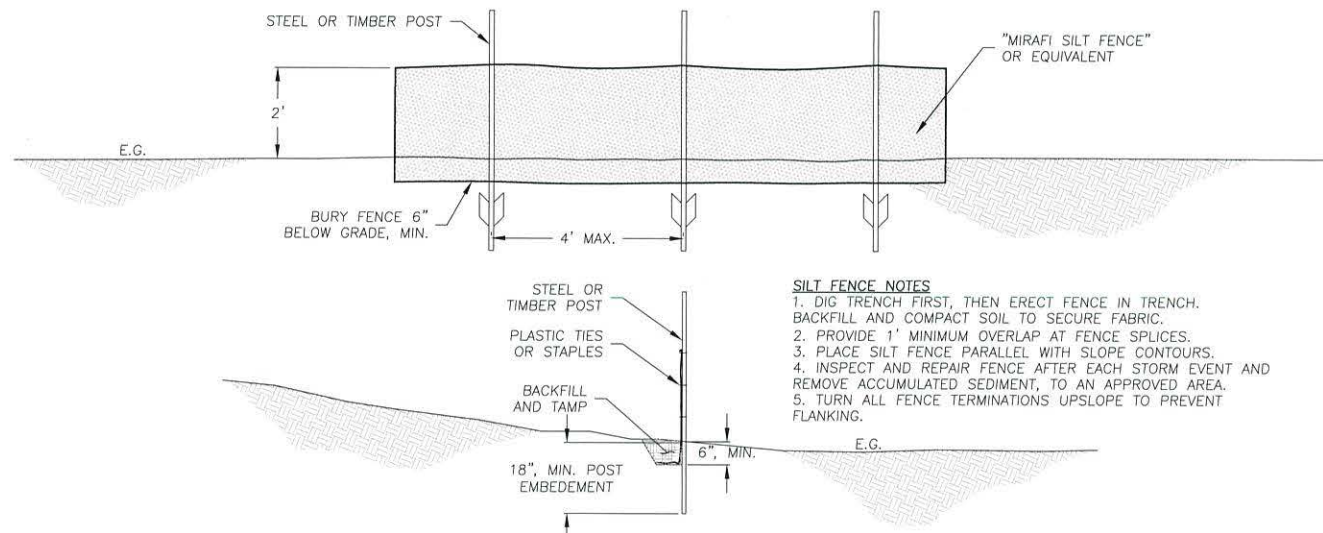
INSTALL PLANTS TO THE SOUTH OF BAYOCEAN ROAD BETWEEN THE ROAD SHOULDER AND ELEVATION 8.0.



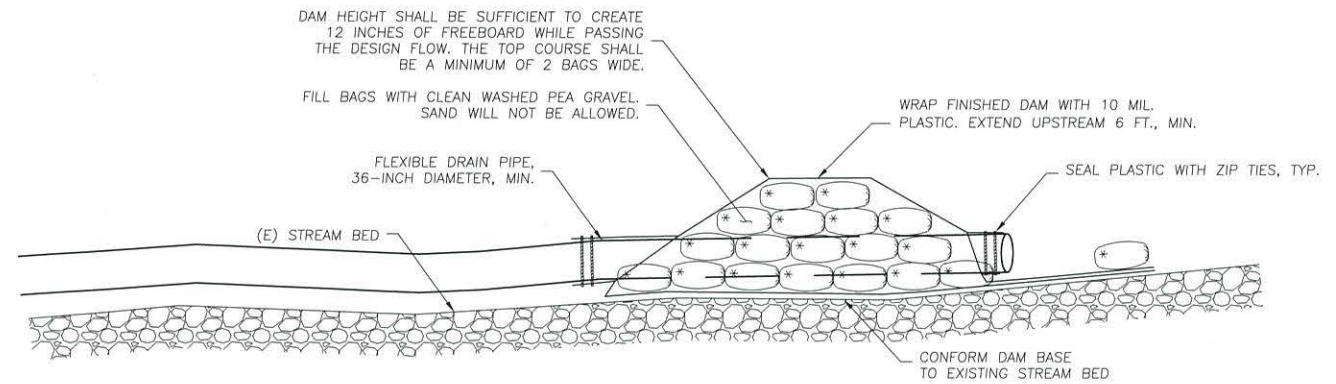
BOUNDARY FENCE (1)
SCALE: 1" = 2'
C9



STRAW WATTLE DETAIL (2)
SCALE: 1" = 1'
C9

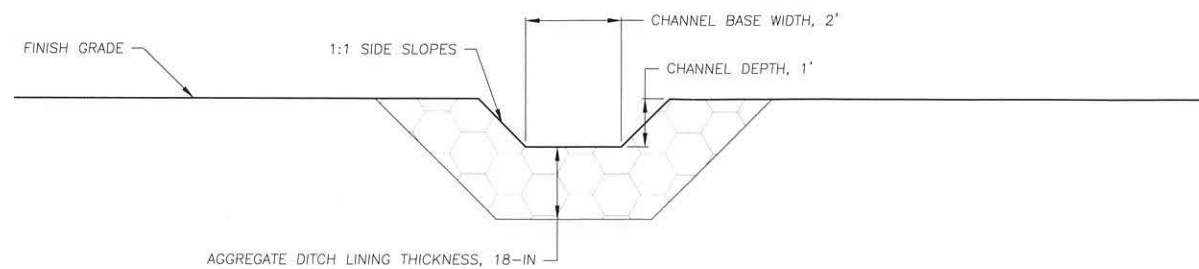


SILT FENCE (3)
SCALE: 1" = 2'
C9



NOTE: CONTRACTOR MAY USE ALTERNATE DAM DETAIL, SUBJECT TO APPROVAL OF THE ENGINEER AND THE PERMITTING AGENCIES.

DIVERSION DAM PROFILE (4)
SCALE: 1" = 5'
C6



STORMWATER OUTFALL (5)
SCALE: 1" = 2'
C4, C6, C7

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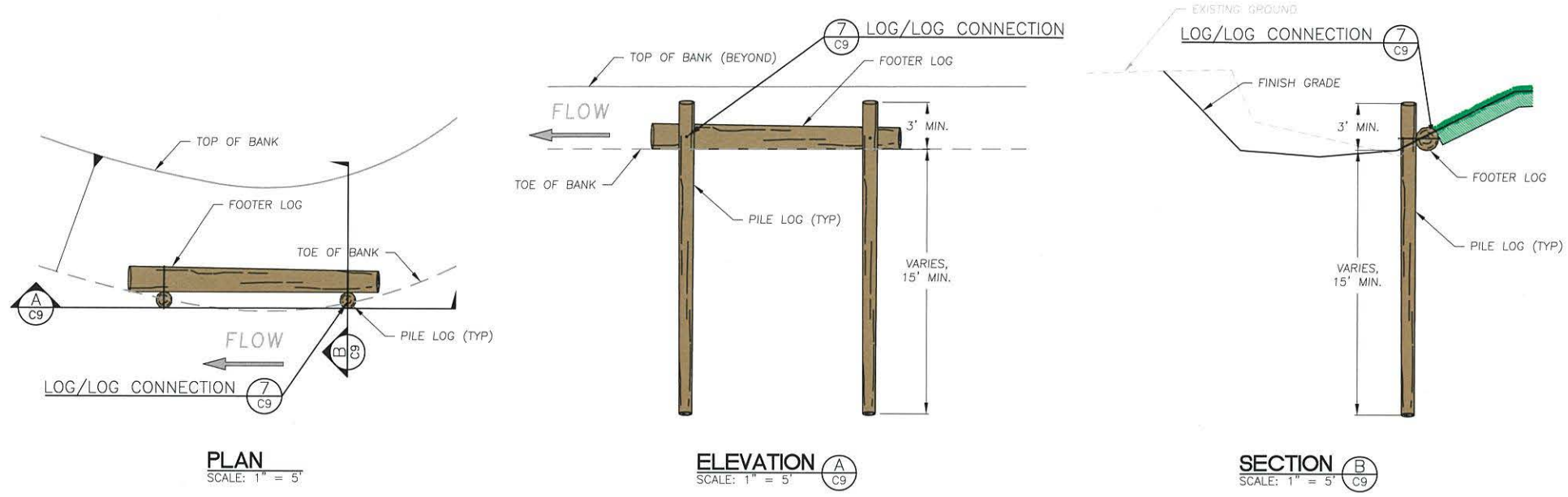
DETAILS

**FLOWER POT CREEK FISH
PASSAGE PROJECT
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0 1"



PLAN
SCALE: 1" = 5'

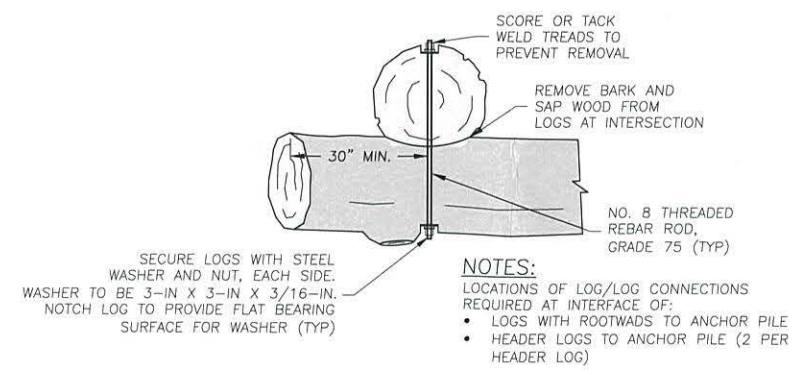
ELEVATION (A)
SCALE: 1" = 5'

SECTION (B)
SCALE: 1" = 5'

LOG STRUCTURE (6)
SCALE: 1" = 5' C4,C5,C6,C7

LOG STRUCTURE NOTES

- PLACEMENT LOCATIONS:** LOG LOCATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.
 - 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:
- | ITEM | DIAMETER (IN.) | LENGTH (FT.) | COUNT |
|-----------|----------------|--------------|-------|
| PILE LOGS | 12 | 20-25 | 18 |
| TOE LOGS | 18 | 12-20 | 9 |
- *NOTE: LENGTH AS SHOWN ON PLANS
- | ITEM | COUNT |
|---------------------|-------|
| LOG/LOG CONNECTIONS | 18 |
- 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.
 - 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.



LOG/LOG CONNECTION (7)
SCALE: 1" = 2' C9

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DETAILS

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EROSION CONTROL NOTES

1. 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.
4. 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 OPERATIONS.
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 UNPAVED 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 SYSTEM, 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. OPERATE AND MAINTAIN 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.
19. 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 CFS.
 - 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 AREA TO PRECONSTRUCTION CONDITIONS.



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NOTES

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GENERAL NOTES

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 INSTALLATION PROCEDURES.
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 UNDERGROUND 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 CONSTRUCTION.
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.
6. 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 OF THE PROJECT.
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 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 HARMLESS FROM ANY AND ALL LIABILITY, 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 SPECIFIED.
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 SQUARED 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
ALDER	1
SITKA SPRUCE	2
TOTAL:	3
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 WORKING HOURS.
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 REPRESENTATIVE IMMEDIATELY.

EARTHWORK NOTES

1. 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:

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 PROJECT.
2. GRADING SUMMARY:

TOTAL CUT VOLUME =	1,402 CY
TOTAL FILL VOLUME =	1,324 CY
NET (CUT) =	78 CY

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 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 EXCAVATION, AND RECOMPACTION, UNDERGROUND UTILITY AND SUBSTRUCTURE SPOILS AND CONSTRUCTION METHODS.

THE CONTRACTOR SHALL PERFORM AN INDEPENDENT EARTHWORK 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 ENGINEER.
4. DO NOT DISTURB 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 CONTRACTOR.
5. CLEARING AND GRUBBING, SUBGRADE PREPARATION AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, AND THESE DRAWINGS.
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 ENGINEER.



1020 SW TAYLOR STREET, STE. 380
PORTLAND, OR 97205
PH: (503) 227-5979 // FAX: (503) 819-6847
WWW.WATERWAYS.COM

PRELIMINARY

NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF:

TROUT UNLIMITED

NOTES

**FLOWER POT CREEK FISH
PASSAGE PROJECT
90% DESIGN SUBMITTAL**

DESIGNED BY: J.H.
DRAWN BY: D.H.
CHECKED BY: J.H.
DATE: 11/16/2023
JOB NO.: 21-078

BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS
0" = 1"

C10 OF 17