

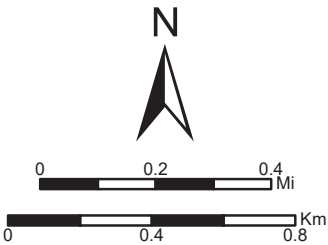


Big Creek Restoration Project

Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS, Oregon State Parks, State of Oregon GEO, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USFWS, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS

2024

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere

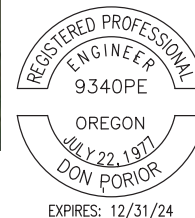




Date	02/01/2023
Designed	D. PORIOR
Drawn	
Checked	
Approved	
Title	

TEN MILE LAKE WATERSHED
BIG CREEK WETLANDS RESTORATION
BIG CREEK WETLANDS RESTORATION
SCHEDULE OF ITEMS, NOTES
VICINITY MAP

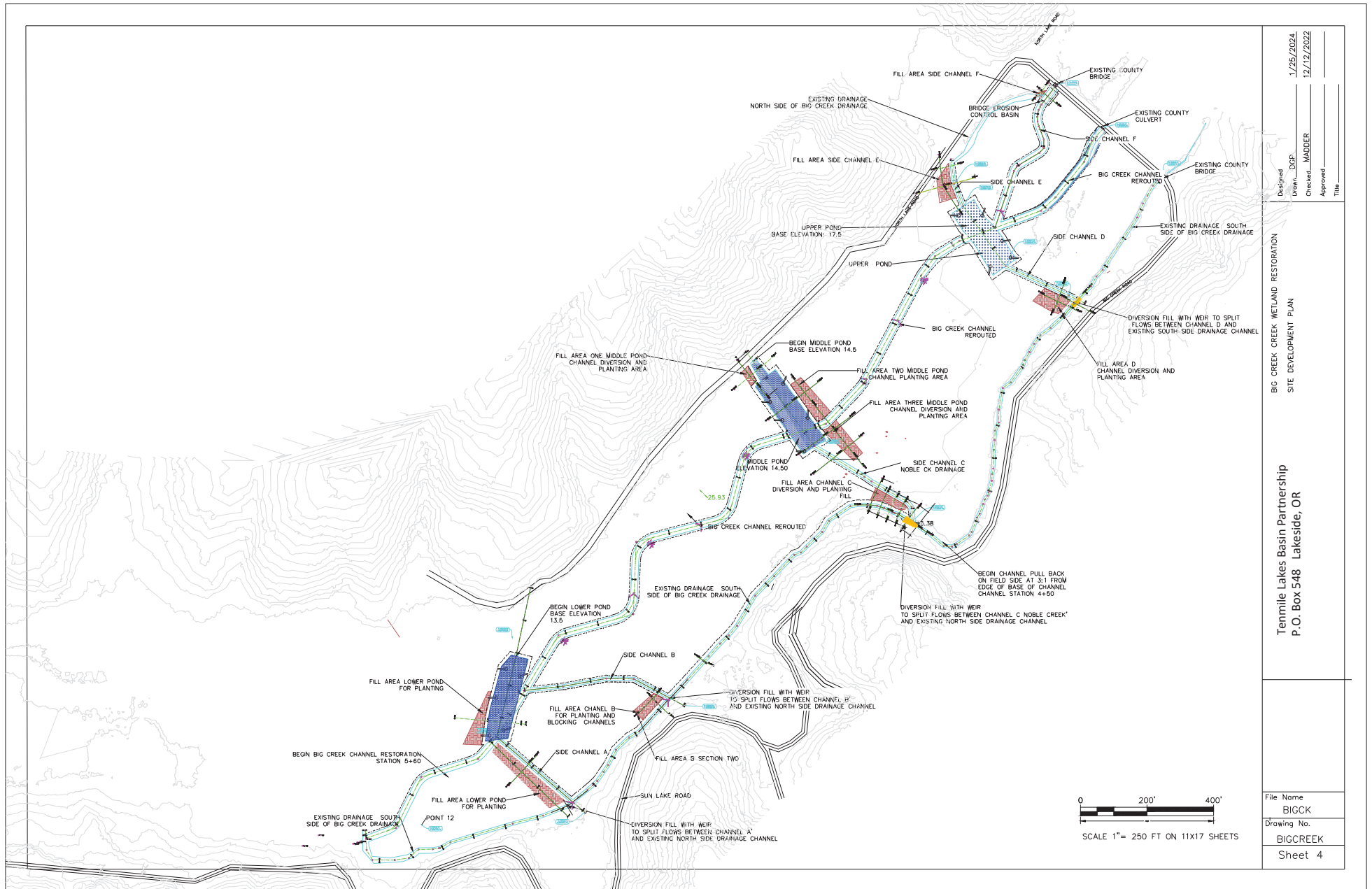
TEN MILE LAKE WATERSHED
 P.O. BOX 548 LAKESIDE, OR



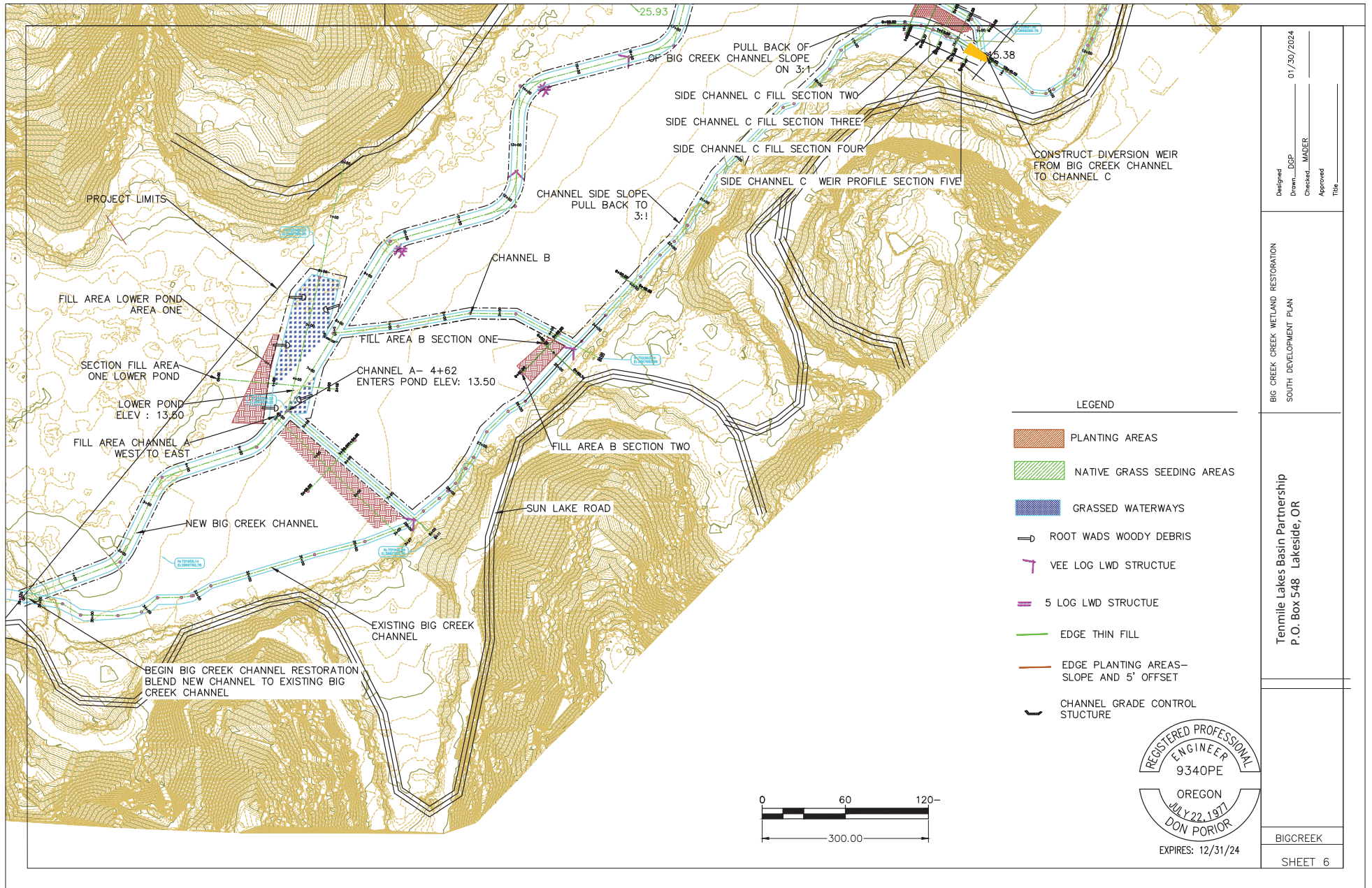
File Name

Drawing No.

Sheet 2



BIG CREEK WETLAND RESTORATION SITE DEVELOPMENT PLAN	Designed	1/25/2024
	Drewn	12/12/2022
	Checked	
	Approved	
Tennile Lakes Basin Partnership P.O. Box 548 Lakeside, OR	Drawn	OSP
	Checked	MADDER
	Approved	
	Title	
File Name	BIGCK	
Drawing No.	BIGCREEK	
Sheet	4	



Benefits of Grade Control Structure

Stabilizes the banks and bed of channel by reducing stream slope and flow velocity → Controls erosion

Prevents gully head cut formation and channel bed erosion by lowering water in a controlled manner

Enhances environmental quality and reduces pollution hazards

Manages channel flow line for non-erosion benefits, including fish passage, water table control, and reduced turbidity

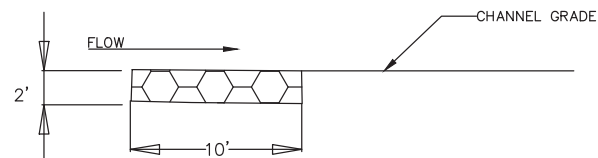
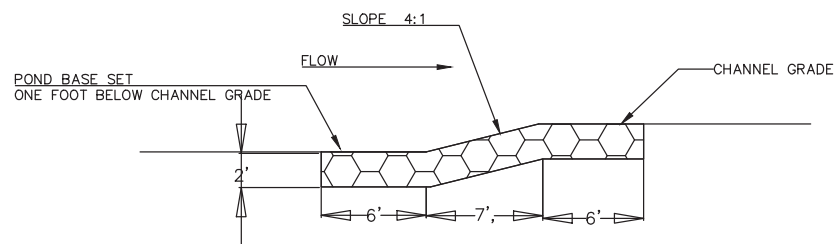
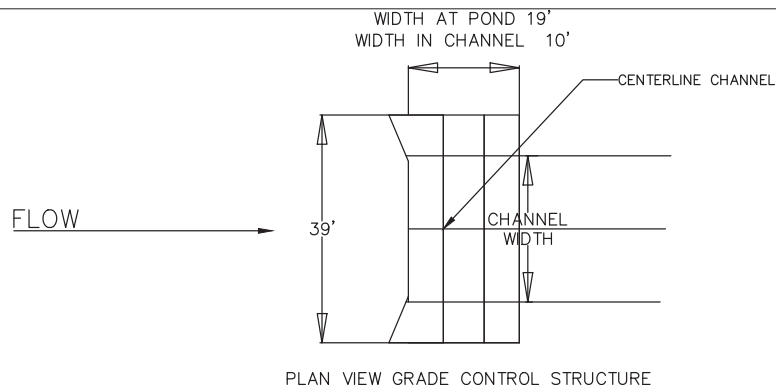
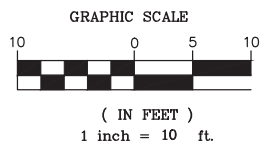
May provide water source and habitat for wildlife

Protects existing structures that can be at risk from bed degradation



Grade control Structures CLASS 3 RIPRAP UNIT QUANTITIES

Length	ft	19	10
width	ft	40	40
depth	ft	2	2
number	each	1	1
Cubic Yards	CY	56	30
area		760	400
Tons	Tons	79	41



Designed D. PORIOR

Checked

Approved

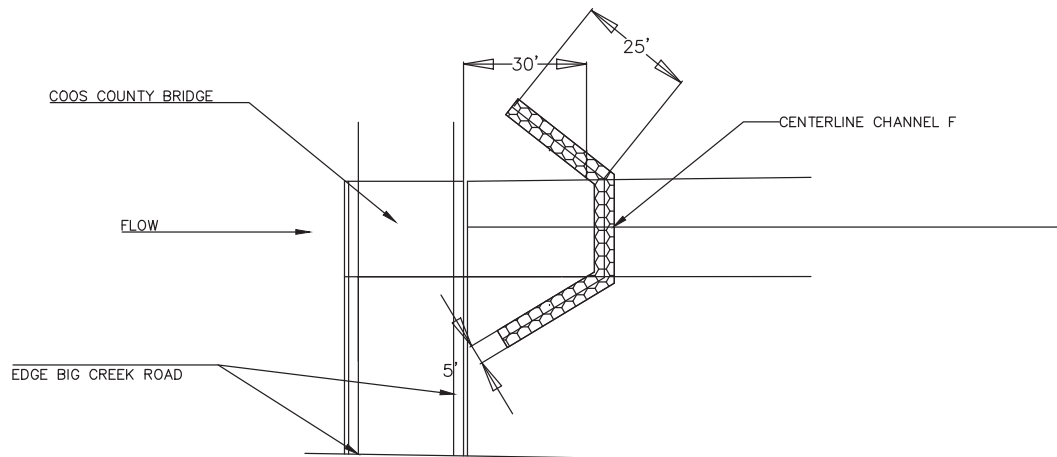
Title

TEN MILE LAKE WATERSHED ASSOCIATION
BIG CREEK WETLANDS RESTORATION
GRADE CONTROL STRUCTURES

Tenmile Lakes Basin Partnership
P.O. Box 548 Lakeside, OR



Sheet 39

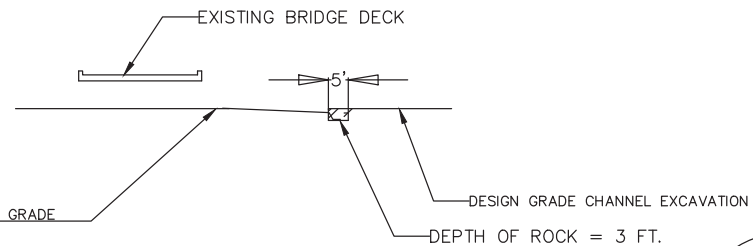


PLAN VIEW BRIDGE EROSION CONTROL BASIN

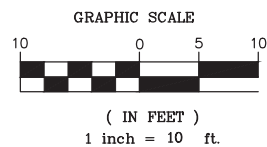
BRIDGE ENERGY DISSIPATION BASIN- BIG CREEK AT COUNTY ROAD CROSSING

NOTES

1. CLASS 4 RIPRAP LENGTH = 75
VOLUME RIPRAP = $5' \times 3' \times 75' / 27 = 40$ CUBIC YARDS
2. ADDITIONAL CHANNEL EXCAVATION $25' \times 1' \times 25' / 27 = 20$ CUBIC YARDS
3. LOCATION OF STRUCTURE TO BE FLAGGED BY CONTRACT ADMINISTRATOR AFTER CHANNEL EXCAVATION IS COMPLETE

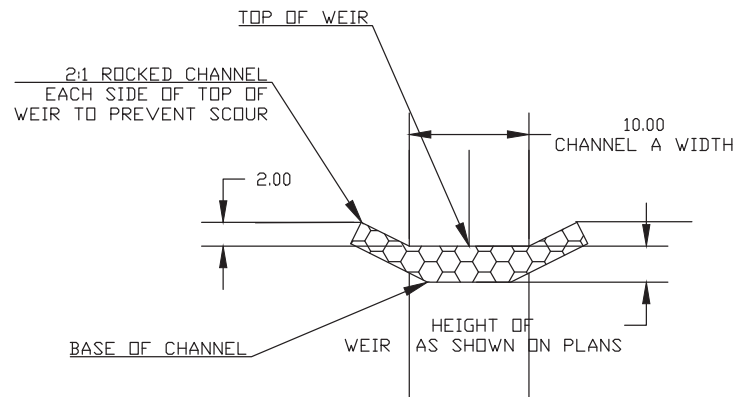
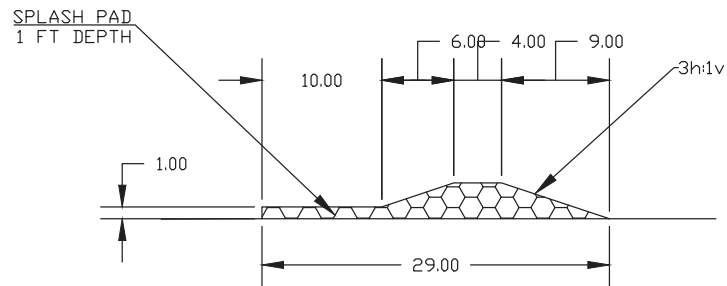
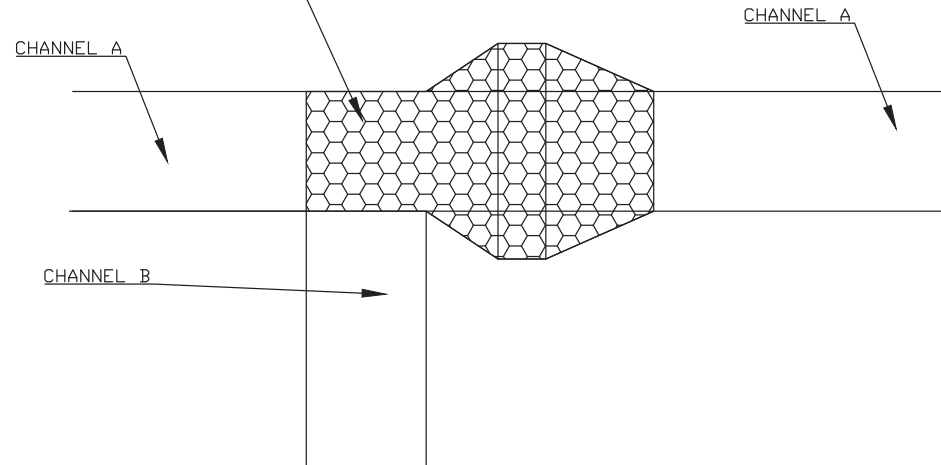


PROFILE VIEW BRIDGE EROSION CONTROL BASIN



Tenmile Lakes Basin Partnership P.O. Box 548 Lakeside, OR	BIG CREEK WETLANDS RESTORATION CHANNEL F- BRIDGE EROSION CONTROL BASIN QUANTITIES, DETAILS, STAKEOUT NOTES	Designed <u>DGP</u> <u>1/25/2024</u> Checked <u>MADER</u> Approved _____ Title _____
Sheet 40		

ROCK FILL CHANNEL FLOW
 SPLITTER WEIR FROM CHANNEL A
 TO CHANNEL B. HIGH FLOWS
 WILL OVERTOP WEIR AND SPIT FLOWS
 PORTIONATELY BETWEEN CHANNEL A AND
 CHANNEL B.



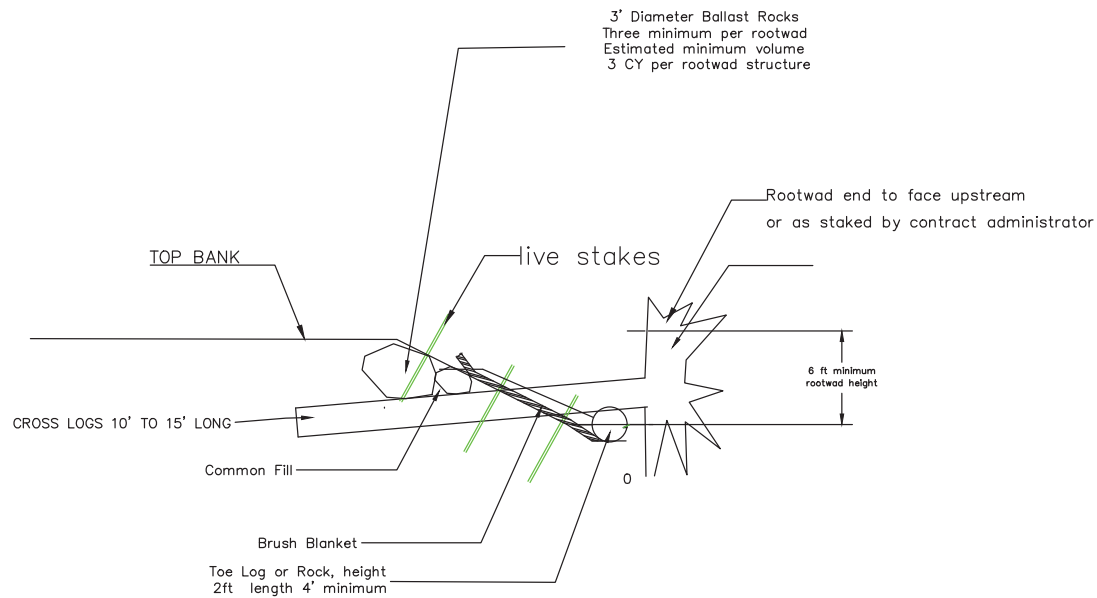
Date	Designed	Drawn	Checked	Approved	Title
	D. PORIOR	DRAWN			

TEN MILE LAKE WATERSHED ASSOCIATION
 BIG CREEK WETLANDS RESTORATION
 CHANNEL DIVERSION WEIR DETAILS

Tennile Lakes Basin Partnership
 P.O. Box 548 Lakeside, OR



Sheet 41



TYPICAL ROOTWAD WITH BALLAST ROCKS

Live Stakes shall be on a 6 foot square spacing
Secure brush mattress with biodegradable twine.

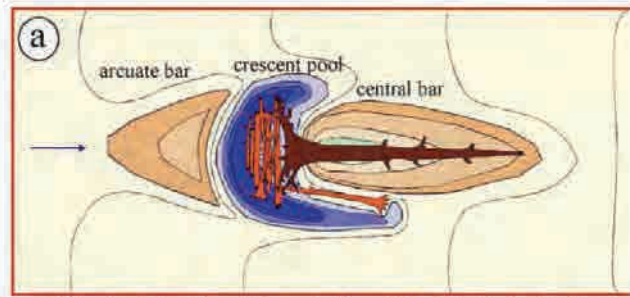
Designed	D. PORIOR	Date	
Drawn	DRWN		
Checked			
Approved			
Title			

TEN MILE LAKE WATERSHED ASSOCIATION
BIG CREEK WETLANDS RESTORATION
ROOTWAD DETAILS -
SINGLE ROOTWAD WITH TOE LOG

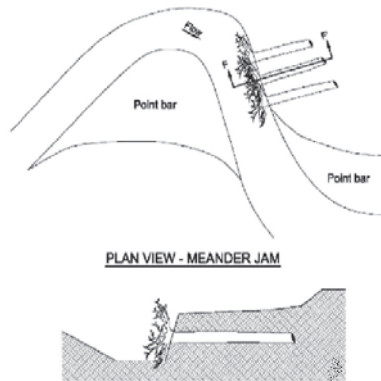
Termile Lakes Basin Partnership
P.O. Box 548 Lakeside, OR



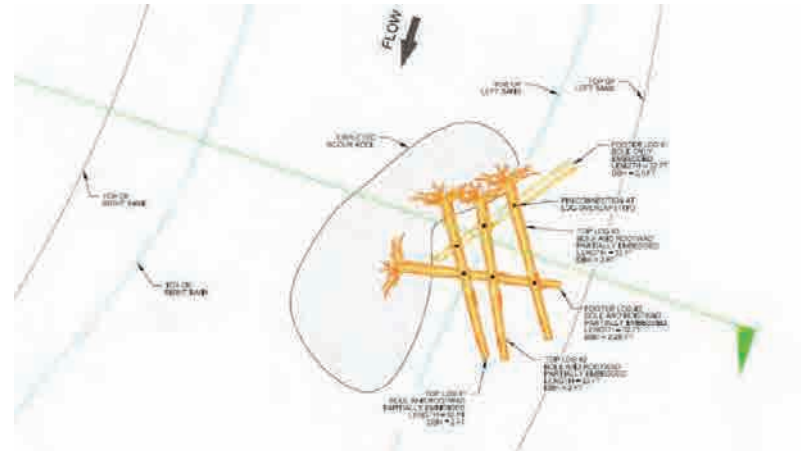
Sheet 42



Large Wood and Log Jams Figure 6. Deposition in the hydraulic "shadow" of an instream tree, burying the bole of the tree. (courtesy Tim Abbe)



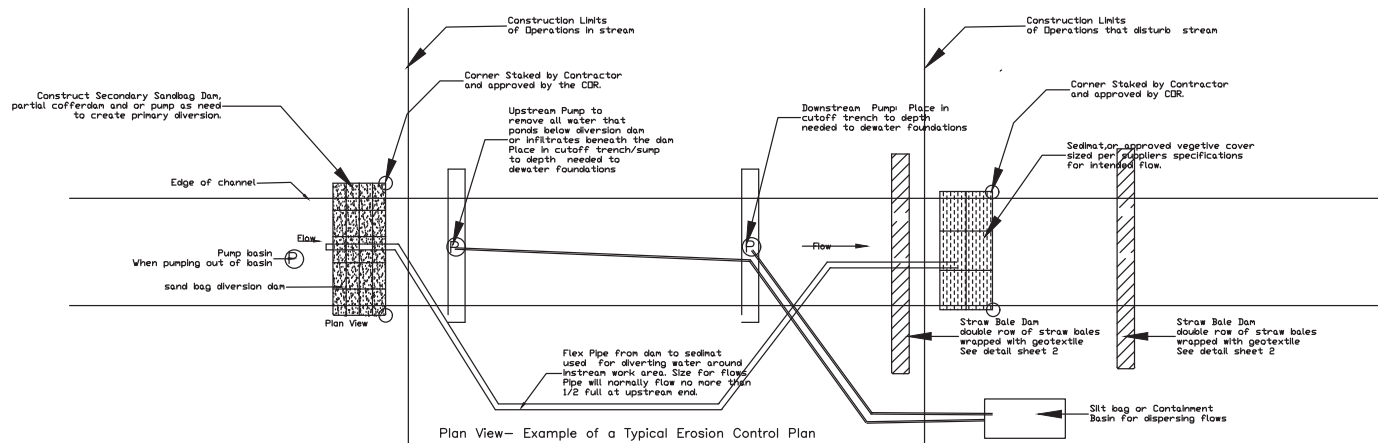
TYPICAL SINGLE ROOTWAD LOG WITH BURIED BOLE



TYPICAL 5 LOG LW CONFIGURATION

Date	
Designed	D. PORIOR
Drawn	DOWN
Checked	
Approved	
Title	
TEN MILE LAKE WATERSHED ASSOCIATION BIG CREEK WETLANDS RESTORATION LOG PLACEMENT - FIVE LOG CLUSTER	
Tennile Lakes Basin Partnership P.O. Box 548 Lakeside, OR	





Date
7/21/22
Designed D.PORIOR
Drawn DATE2
Checked DATE3
Approved
Title

TEN MILE LAKE BASIN PARTNERSHIP
BIG CREEK WETLANDS RESTORATION
EXAMPLE EROSION DEWATERING PLAN

TENMILE LAKES BASIN PARTNERSHIP
P.O. BOX 548 LAKESIDE, OR

File Name

Drawing No.

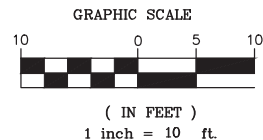
sheet 45

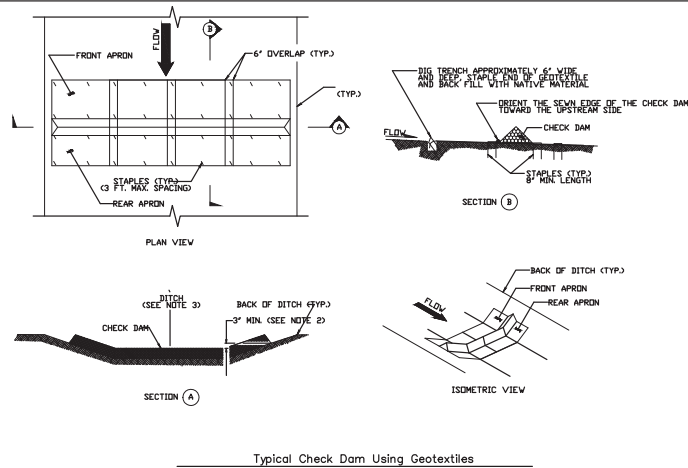
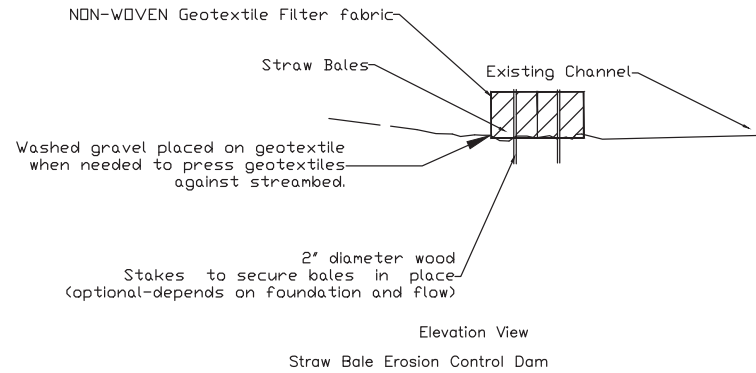
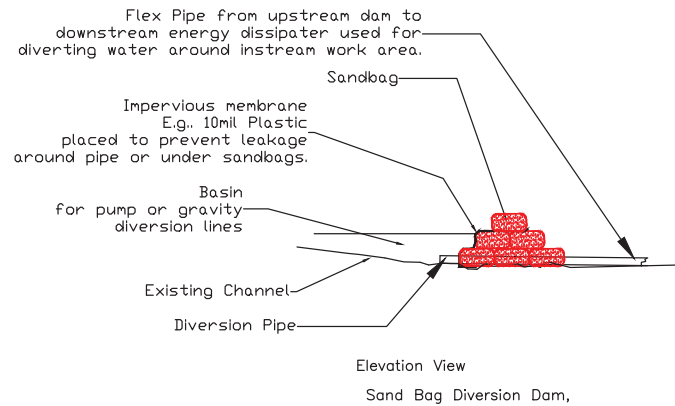
Sample Erosion Control and Dewatering Plan

An erosion control and dewatering plan shall be provided by the contractor for each site. The plan will detail how the site will be dewatered to a depth below the lowest level of the foundation and how construction sediments will be filtered or removed to comply with clean water standards. The following minimum features shall be incorporated into that plan.

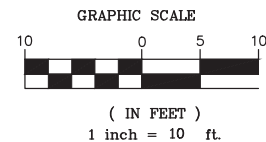
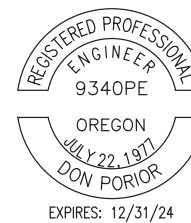
1. Flow Diversion: Contractor shall pump or gravity drain stream around project. Discharge from diversion dams or pump outlets shall be onto natural vegetation or an approved filtration device such as "sedi-mats" and/or straw bale dams.
2. Upstream Flow shall be diverted around the site or collected in a dam constructed with sand bags or rock. See typical sand bag dam details sheet 2 of this plan.
3. Straw bale dams shall be placed above and below sedimat outlet as required to comply with DEQ water quality standards. A minimum configuration is detailed above.
4. At least one straw bale dam shall be constructed downstream of diversion pipe outlet. Additional structures may be required to comply with water quality standards.
5. All erosion control structures shall be installed prior to any soil disturbance.
6. Remove Temporary erosion control structures at completion of job.
7. Haul impounded sediments, straw bale dams, silt bags and sedimats to designated waste area.
8. Compliance with Water Quality Standards:
 - A. Contractor is responsible for compliance with all clean water and DEQ regulations. As part of that responsibility he will visually monitor turbidity and take necessary actions to stay in compliance.
 - B. The Location of all erosion control structures shall be approved by the COR. Approval does not relinquish the obligation by the Contractor to comply with water quality standards nor constitute a basis for a claim should additional dewatering be required by the COR.
9. All disturbed areas within riparian areas shall receive a temporary turf protection of no less than 2 inches of certified weed free straw mulch. Riparian areas are defined for this purpose as within 50 feet of a stream.

The Erosion Control /Dewatering Plan and details on these sheets are presented as an examples. The contractor may use all or portions of this sheet for his submittal for the project.





The Erosion Control /Dewatering Plan and details on these sheets are presented as an examples . The contractor may use all or portions of this sheet for his submittal for the project.

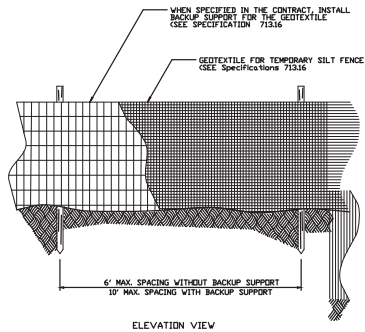


Date
7/22/22
Designed D.PORIOR
Drawn
Checked
Approved
Title

TEN MILE LAKE BASIN PARTNERSHIP
BIG CREEK WETLANDS RESTORATION
EROSION CONTROL BMP SHEET 1 OF 2

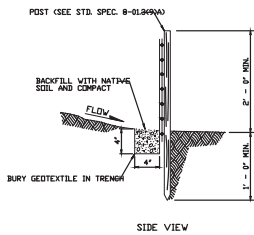
TENMILE LAKES BASIN PARTNERSHIP
P.O. BOX 548 LAKESIDE, OR

File Name
Drawing No.
sheet 46

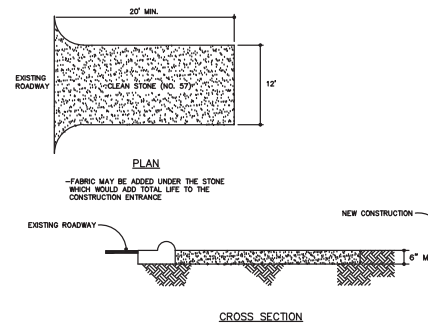


NOTES

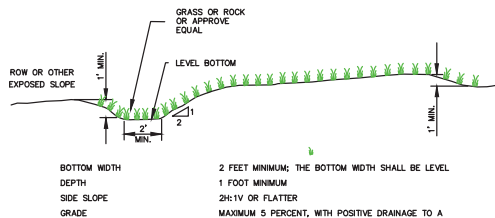
1. MAXIMIZE DETENTION OF STORMWATER BY PLACING FENCE AS FAR AWAY FROM THE TOE OF SLOPE AS POSSIBLE WITHOUT ENCRoACHING ON SENSITIVE AREAS OR OUTSIDE OF THE CLEARING BOUNDARIES.
2. INSTALL SILT FENCING ALONG CONTOURS WHENEVER POSSIBLE.
3. INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UP-SLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATIONS 8-01.35(A) AND 8-01.35(B).



Silt Fence Erosion Control



Entrance to Project for erosion control



DIVERSION SWALE

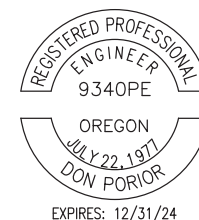


TEMPORARY DIVERSION DIKE

SLOPE	SPACING
<5%	300 FEET
5-10%	200 FEET
10-40%	100 FEET

NOTES

1. IMMEDIATELY UPON CONSTRUCTION, ESTABLISHED VEGETATION OR EROSION CONTROL BLANKETS ARE REQUIRED.



EXPIRES: 12/31/24

Designed	D. PORIOR	Date	7/21/22
Drawn		DATE2	
Checked		DATE3	
Approved			
Title			

TEN MILE LAKE BASIN PARTNERSHIP
BIG CREEK WETLANDS RESTORATION
EROSION CONTROL BMP SHEET 2 OF 2

TENMILE LAKES BASIN PARTNERSHIP
P.O. BOX 548 LAKESIDE, OR

File Name
Drawing No.
sheet 47

The Erosion Control /Dewatering Plan and details on these sheets are presented as an examples . The contractor may use all or portions of this sheet for his submittal for the project.