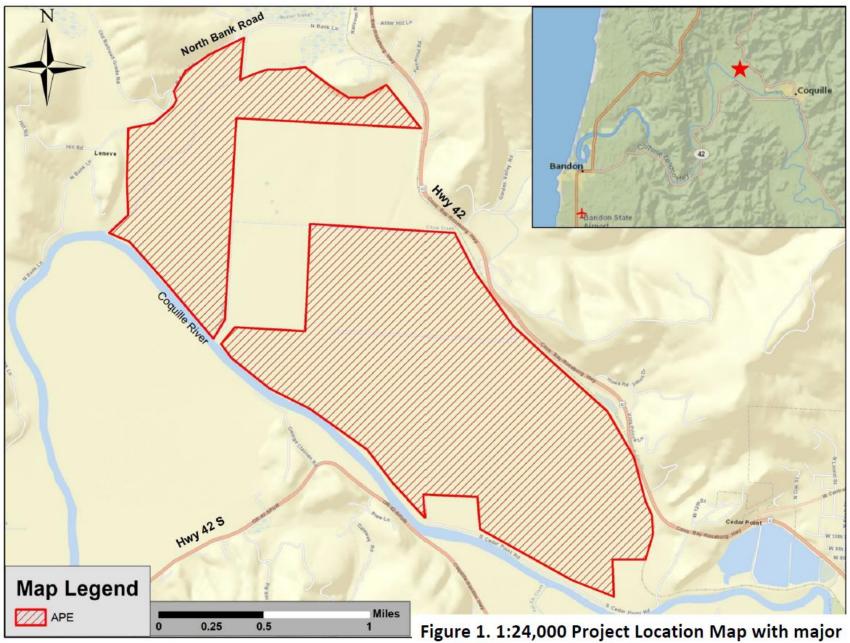
### Winter Lake Phase III: Vicinity Map



roads/highways identified

## Winter Lake Phase III: USGS Topographic Map and Area of Potential Effect (APE)

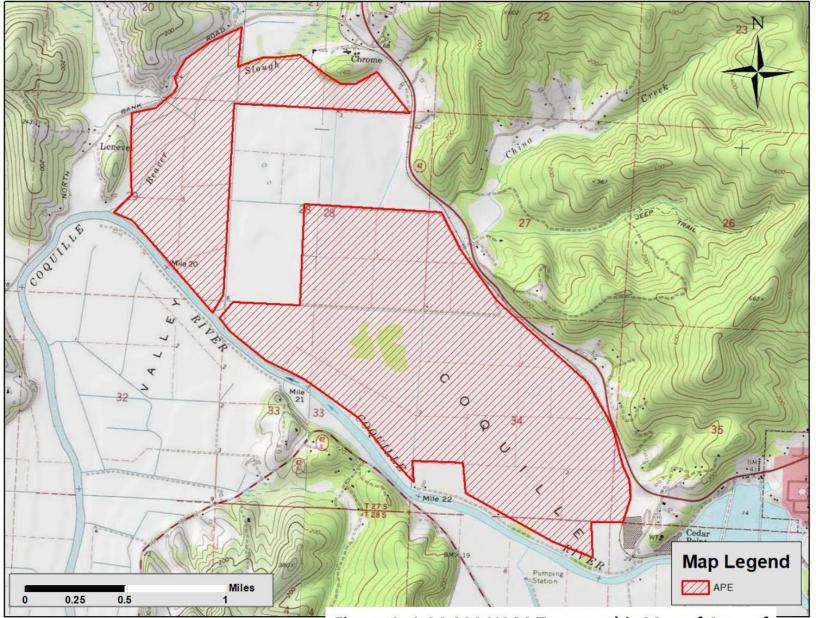
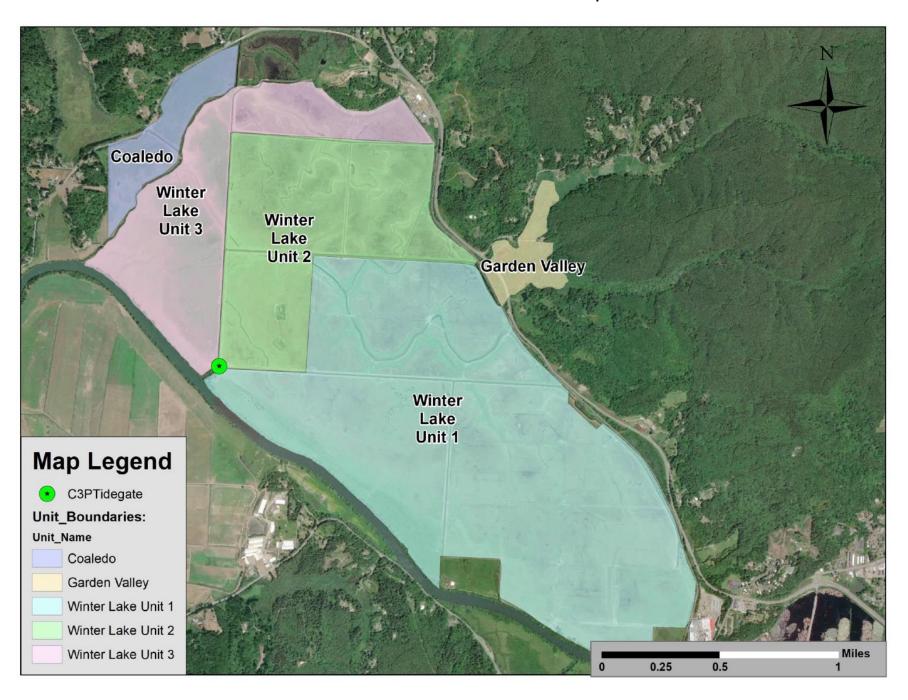
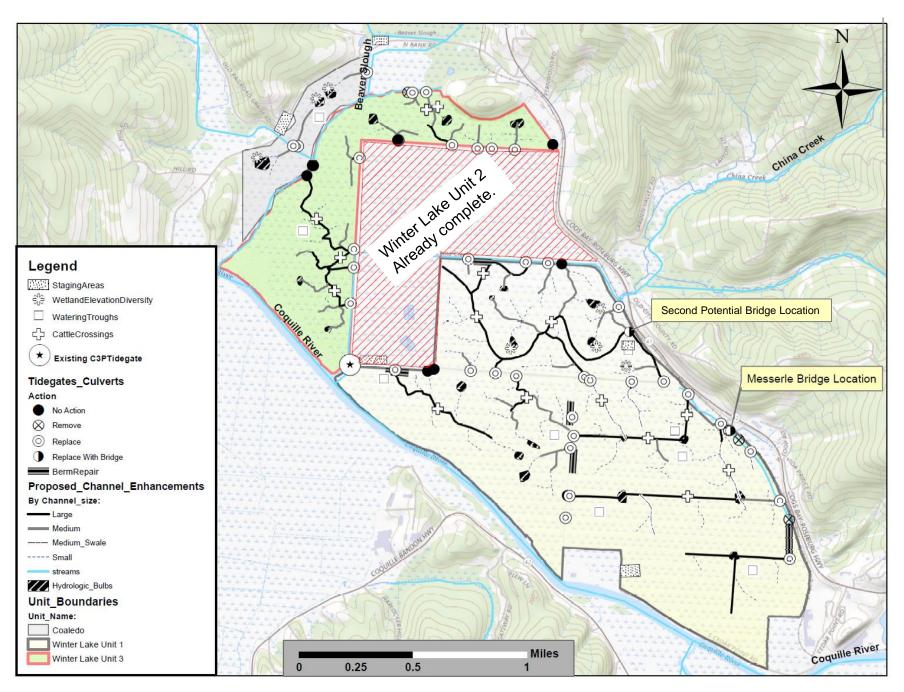


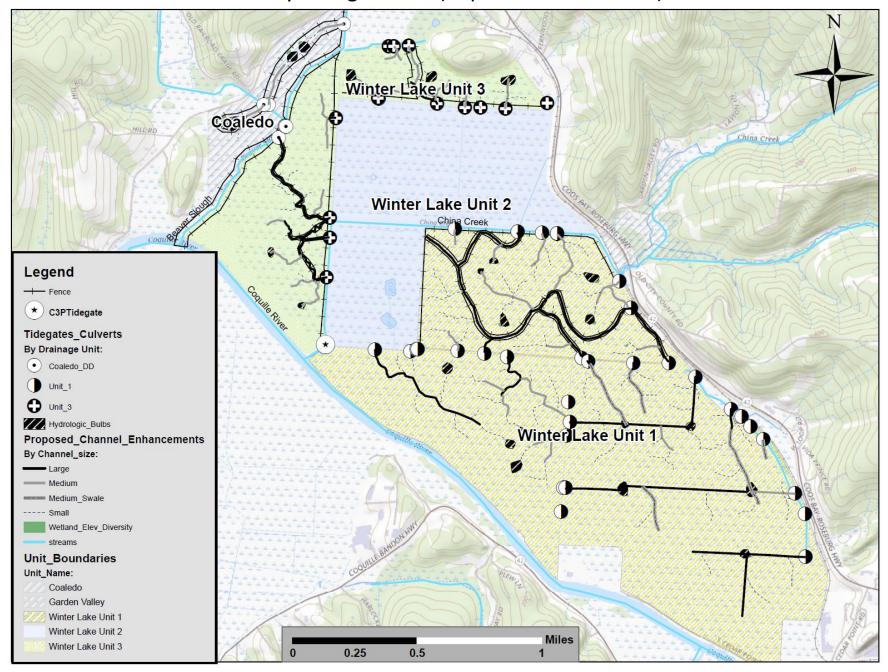
Figure 2. 1:24,000 USGS Topographic Map of Area of Project Effect (APE)



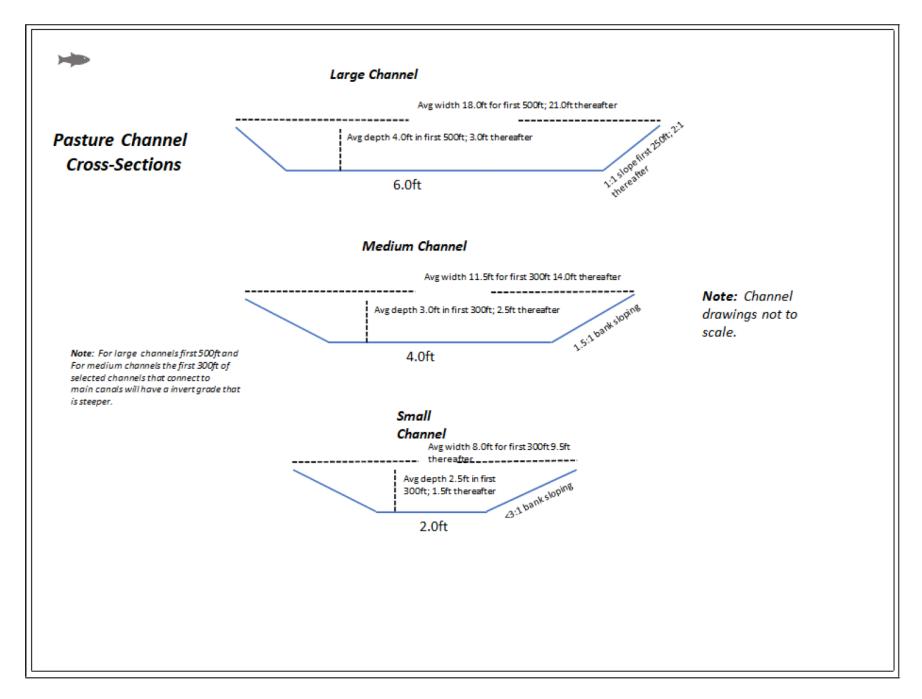
#### Winter Lake Phase III: Overview



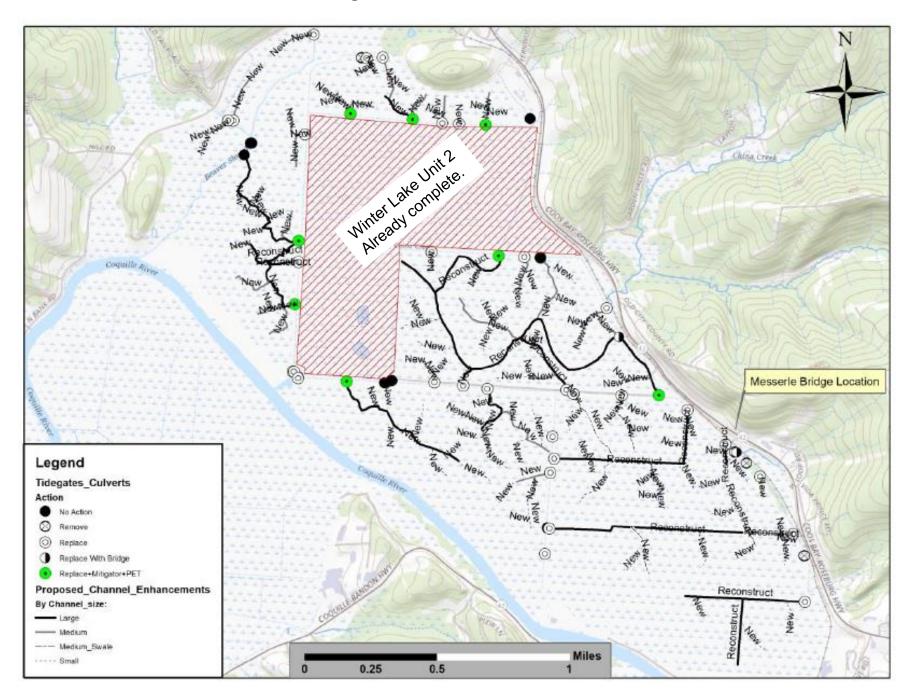
# Winter Lake Phase III: Proposed Culverts with Tidegates, Channel Sizes, and Hydrologic Bulbs (depressions for fishes)



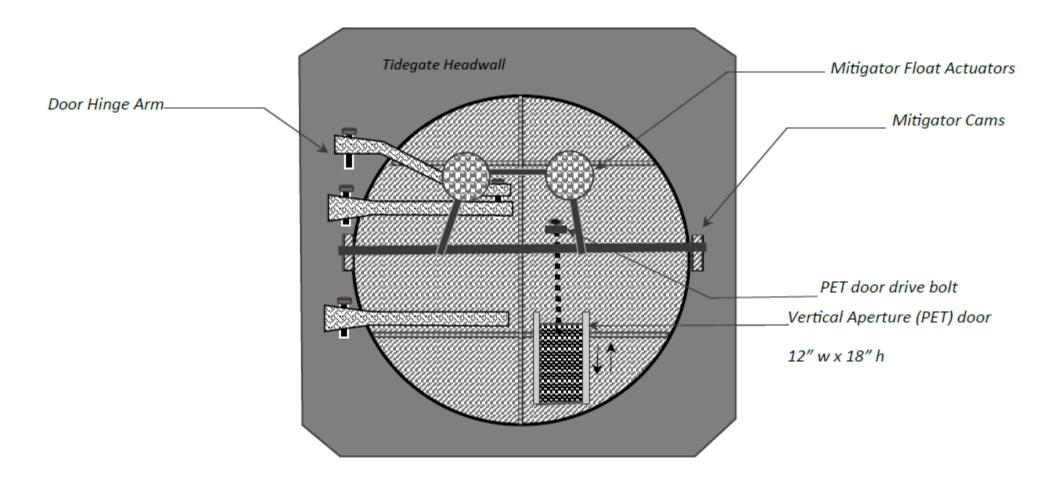
### Winter Lake Phase III: Proposed Channel Enhancement Dimensions



### Winter Lake Phase III: Tidegates, Culverts, and New Channel Enhancements



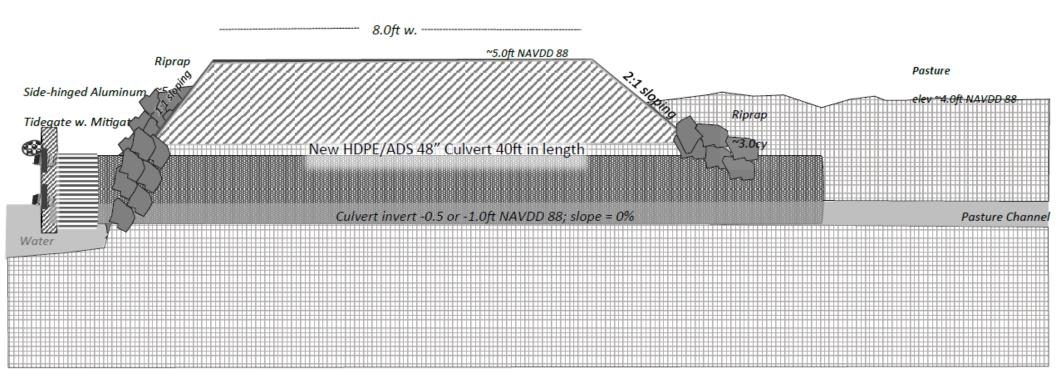
Winter Lake Phase III: Side-hinged Aluminum Tidegate with Mitigator and Vertical Aperture Door



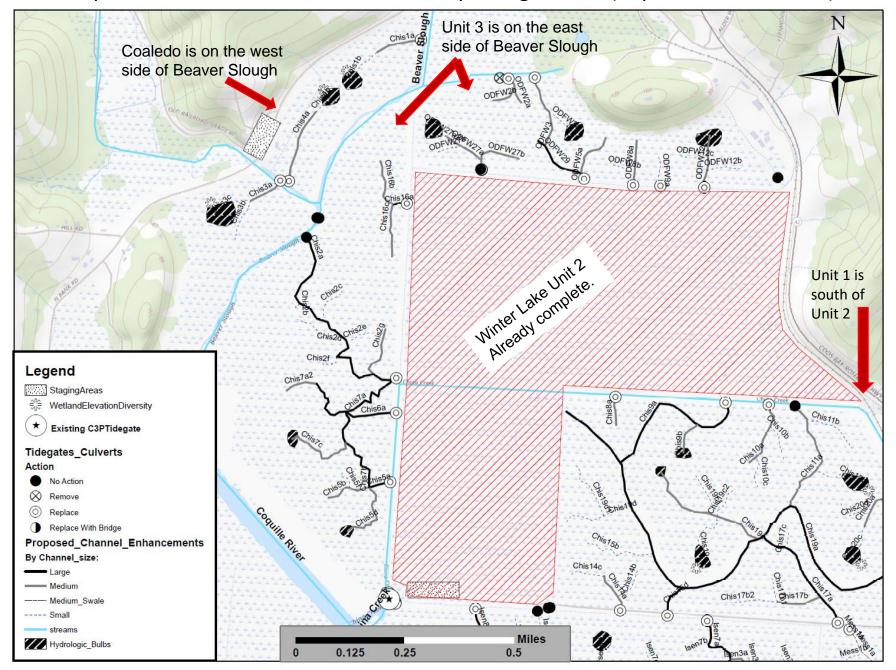
### Winter Lake Phase III: Culvert/Tidegate Design

### Phase III Culvert/Tidegate Cross-Sectional Depiction

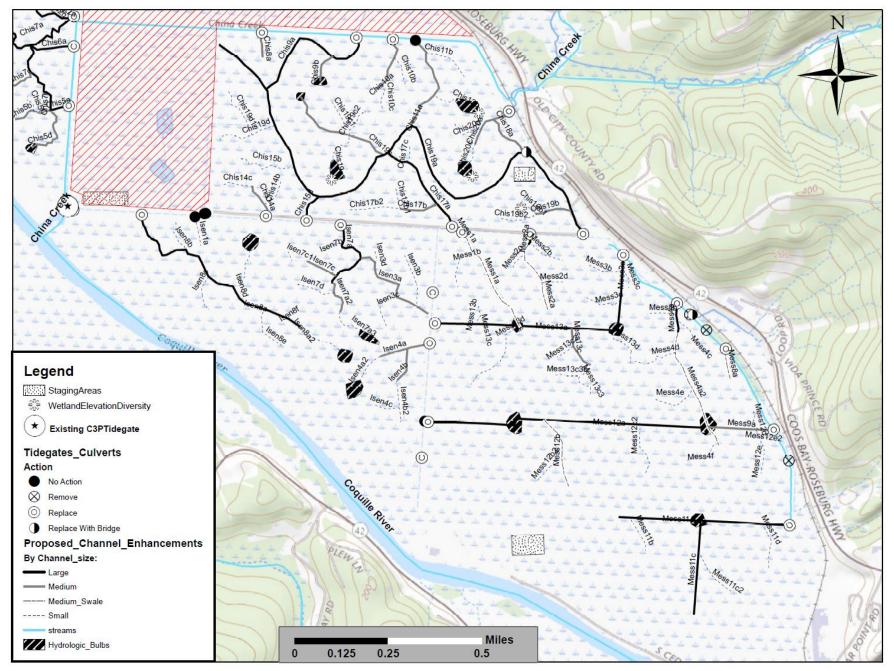
Note: Drawing not to scale



# Winter Lake Phase III: Coaledo & Unit 3 Staging Areas, Tidegates, and Proposed Channel Enhancements with Hydrologic Bulbs (depressions for fishes)



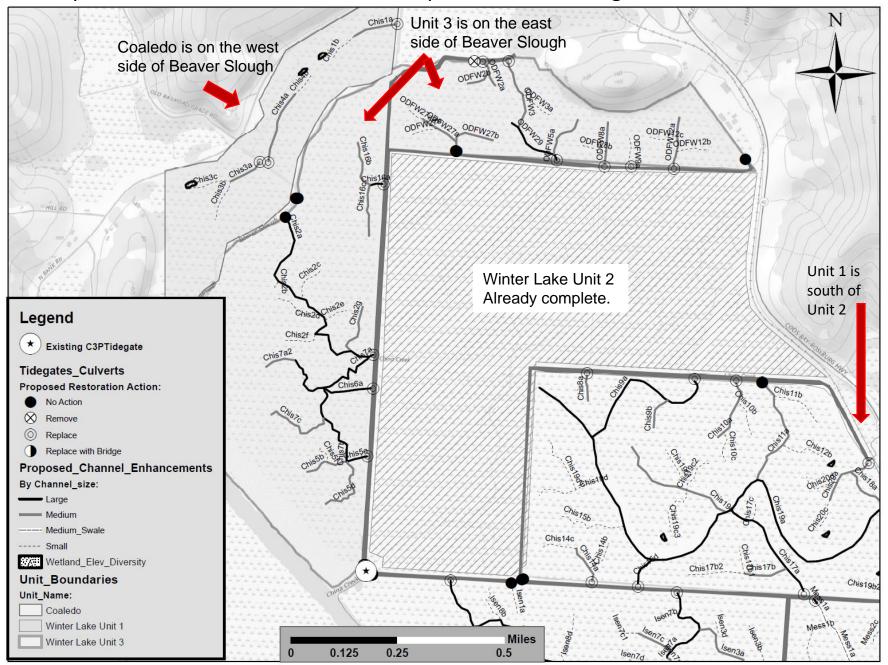
Winter Lake Phase III: Unit 1
Proposed Channel Enhancements with Hydrologic Bulbs (depressions for fishes)



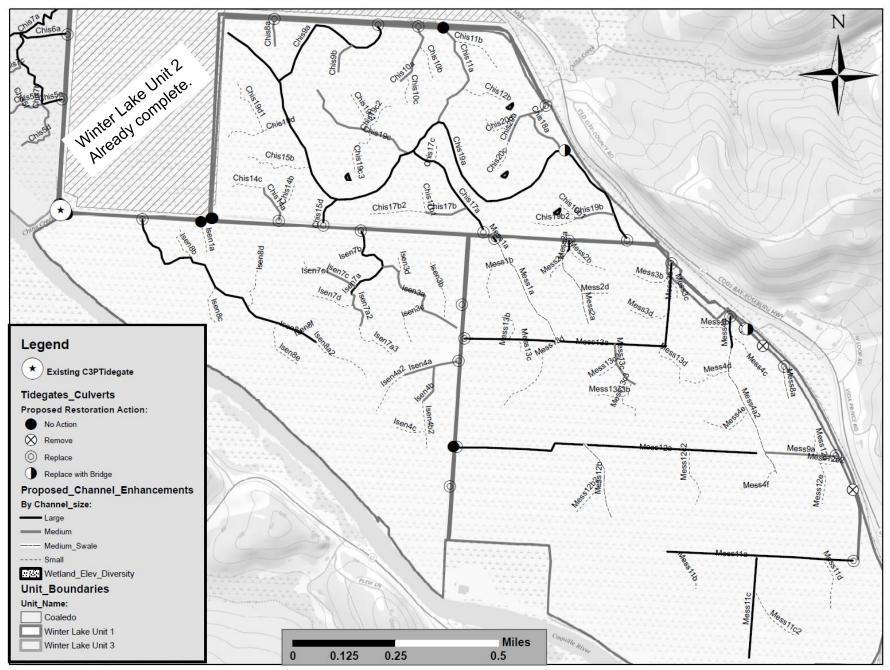
## Winter Lake Phase III: Hydrologic Bulbs (depressions for fishes)

	Hydro Bulb		Distance frm	NAVDD88	Field	Excavate			Excavate	
<b>&gt;</b>	I.D.		Connect Chan (ft)					Sq ft	Volume C	
Hydrologic Bulb	Isen8a2 Mess1a2	Small Medium-S	3,995 1,571	2.5 1.8			0.73	31,799 30,492	1,82 3,11	
Hydrologic Bulb	Mess11d	Large	1,250	2.5	4.67	2.17	0.74	32,234	2,84	
Layout Cross-Section	Mess1c2	Large	1,075	2.5	3.84	1.34	1.19	51,836	2,88	
	Isen7a3	Small	2,137	2.0	4.27	2.27	0.61	26,572	2,51	
	Mess2a	Large	1,215	1.8	2.99	1.19	0.46	20,038	1,08	
	Chis5b	Medium	837	2.1	3.74	1.64	0.43	18,731	1,33	
	Chis19c3	Small	688	1.8	2.88	1.12	0.8	34,848	1,68	
	Chis20c	Small	1,130	1.8	2.91	1.11	0.76	33,106	1,60	
	Chis5d	Medium	895	2.0	5.39	3.39	0.39	16,988	2,31	
	Chis19c	Small	1,500	2.3	4.33	2.03	0.28	12,197	1,07	
	Chis7c	Medium	902	3.5	4.79	1.28	0.47	20,473	1,17	
	Chis12b	Small	550	1.8	3.14	1.34	1.12	48,787	2,67	
	Mess1e	Small	880	2.5	3.96	1.46	1.14	49,658	2,99	
	Isen4a2	Small	1,333	2.0	4.62	2.62	1.05	45,738	4,63	
	Isen8d	Small	732	2.5	3.65	1.15	0.92	40,075	1,97	
	ODFW12a	Medium	655	1.0	2.71	1.71	1.2	52,272	3,62	
	ODFW3a	Small	422	1.0	2.89	1.89	0.94	40,946	2,86	
	ODFW27a	Small	230	1.0	3.23	2.23	0.941	40,990	3,66	
	Chis1b	Small	377	1.5	3.82	2.32	0.94	40,946	3,79	
	Chis4b	Small	338	1.5	4.18	2.68	0.85	37,026	3,93	
	Chis3c	Small	516	1.5	4.94	3.44	1.9	82,764	10,92	
					Totals		18.56	808,517	64,505	
	Hydrologic Bulb					9.8ft Pasture				
5:1 sloping	Range = 1	Invert Elev 8-2.5ft belo	vation ow field elevatio	on .	20 20 20 20 20 20 20 20 20 20 20 20 20 2	5:1 slo	ping			
					8					
						Prepared by WinterLake Phase III Team ODFW, BSDD, and Coos SWCD				
							Sheet 26 of 26			

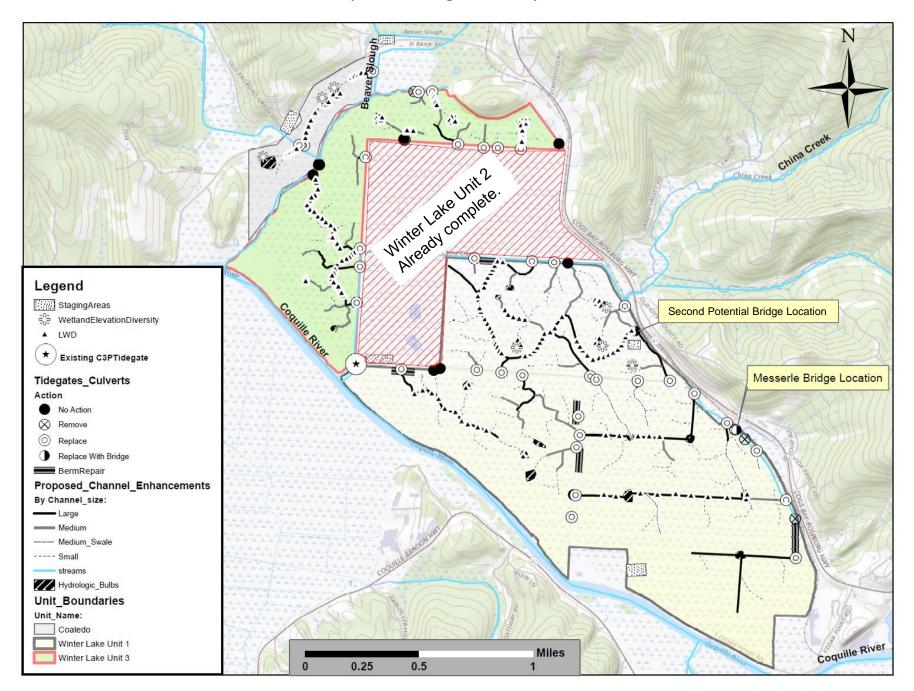
# Winter Lake Phase III: Coaledo & Unit 1 Proposed Channel Enhancements & Proposed Culvert-Tidegate Restoration Actions



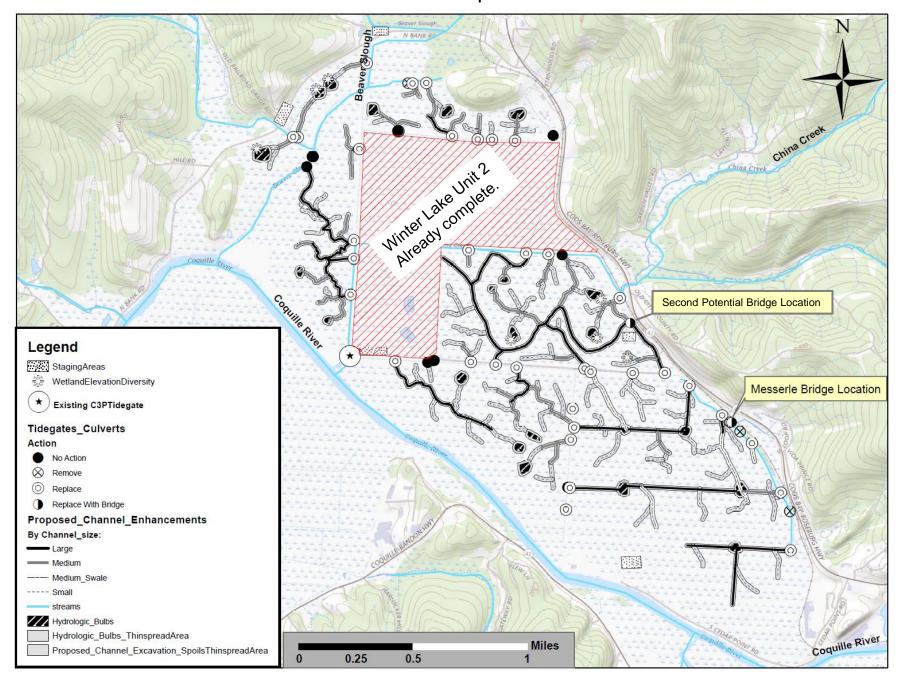
Winter Lake Phase III: Unit 1
Proposed Channel Enhancements & Proposed Culvert-Tidegate Restoration Actions



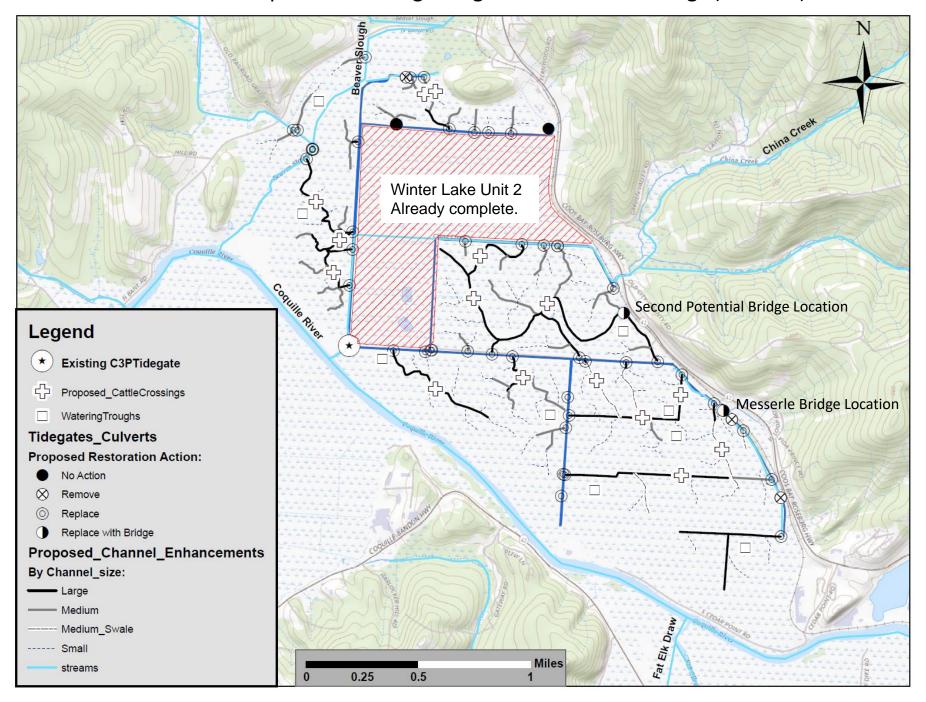
### Winter Lake Phase III: Proposed Large Woody Debris Placement Locations



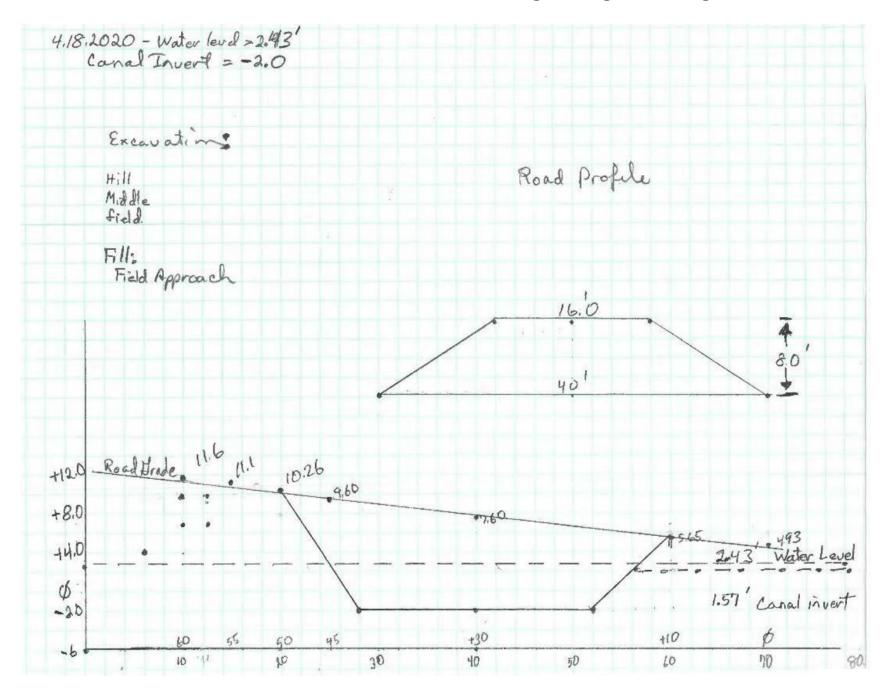
# Winter Lake Phase III: Geographic Extent of Excavated Spoils Excavated sediments would be thinspread at the time of excavation



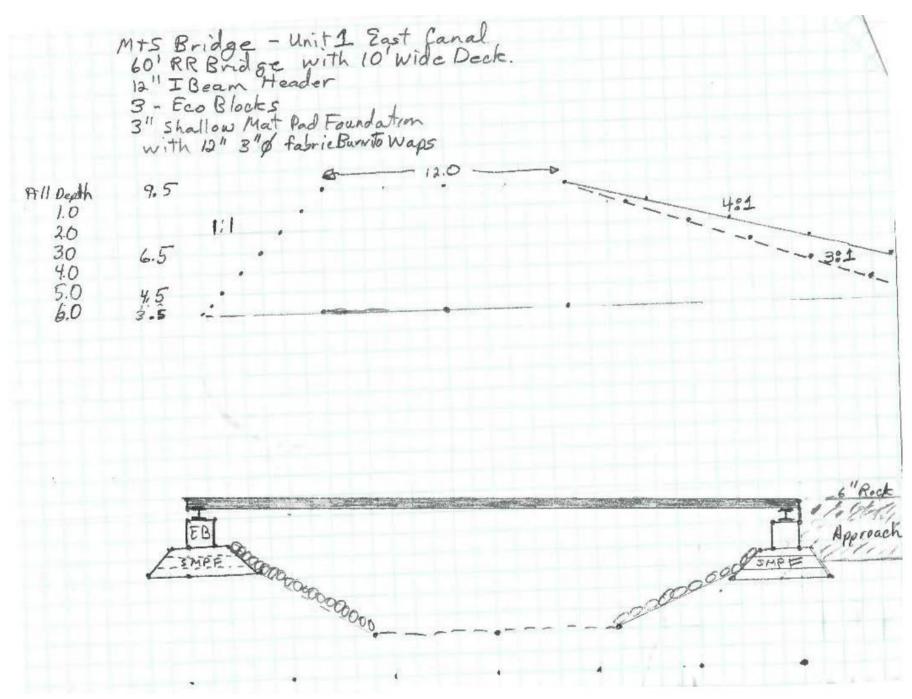
### Winter Lake Phase III: Proposed Watering Troughs and Cattle Crossings (Culverts) Locations



#### Winter Lake Phase III: Messerle Bridge Design Drawing



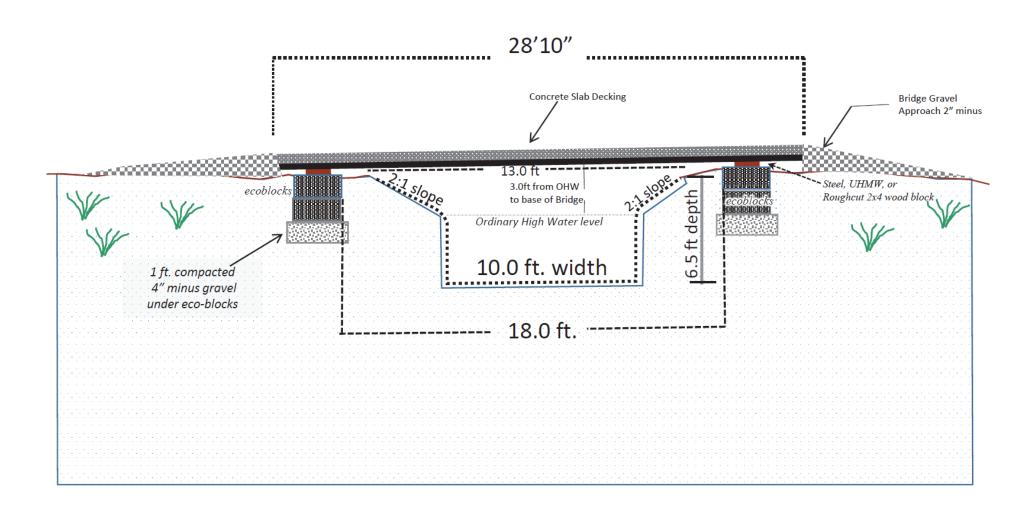
#### Winter Lake Phase III: Messerle Bridge Design Drawing



### Winter Lake Phase III: Second Potential Bridge Design Drawing

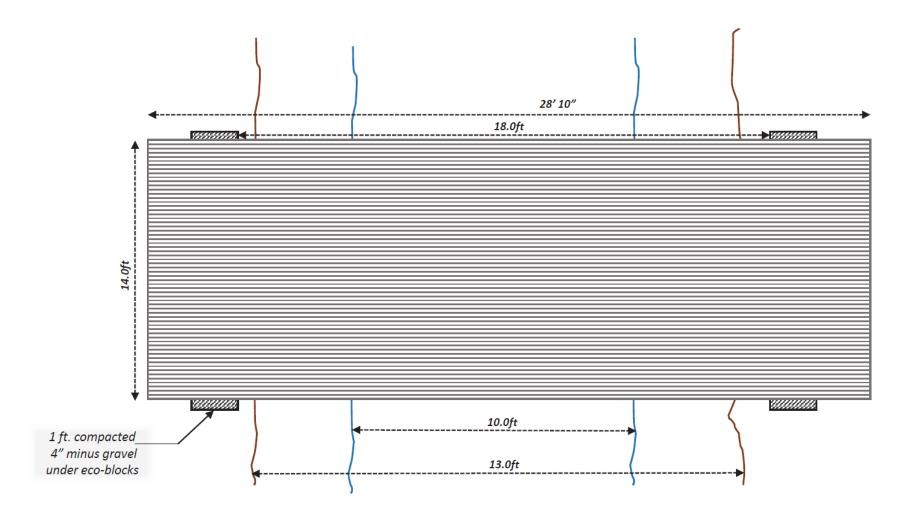
## Agricultural Farm Bridge Construction Design Depiction

(side view)

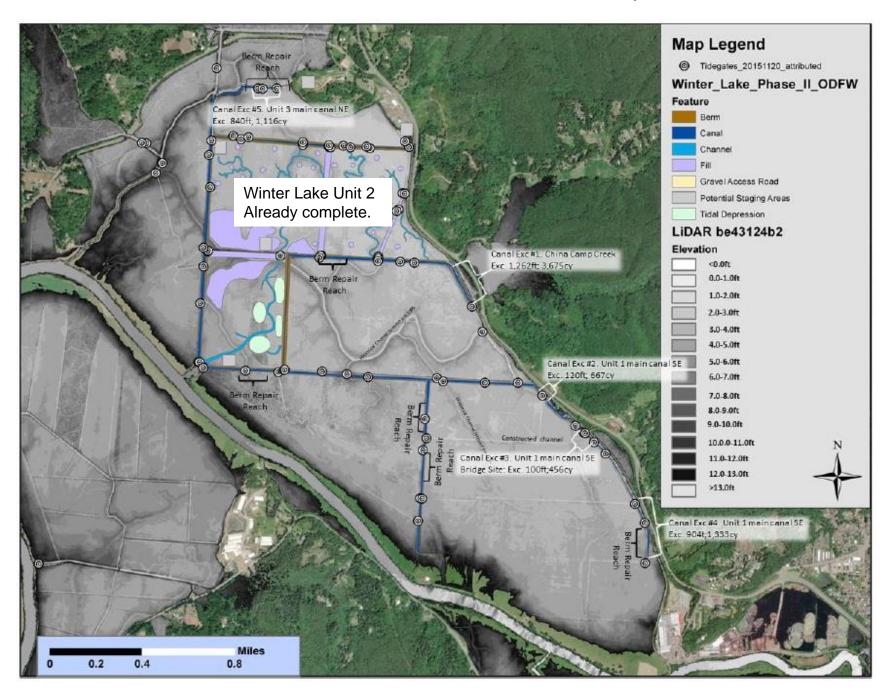


## Agricultural Farm Bridge Construction Design Depiction

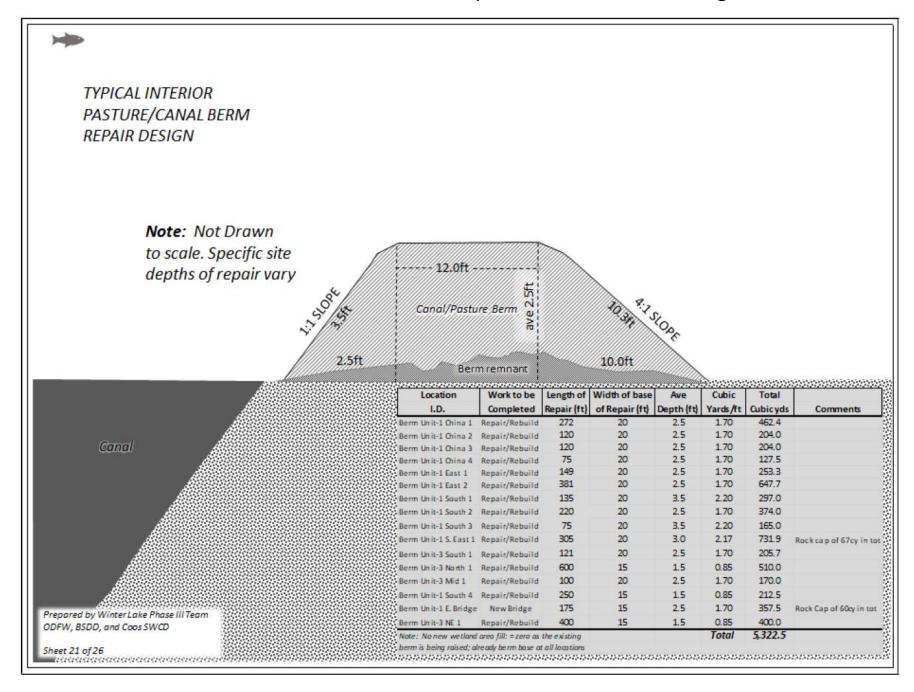
(top view)



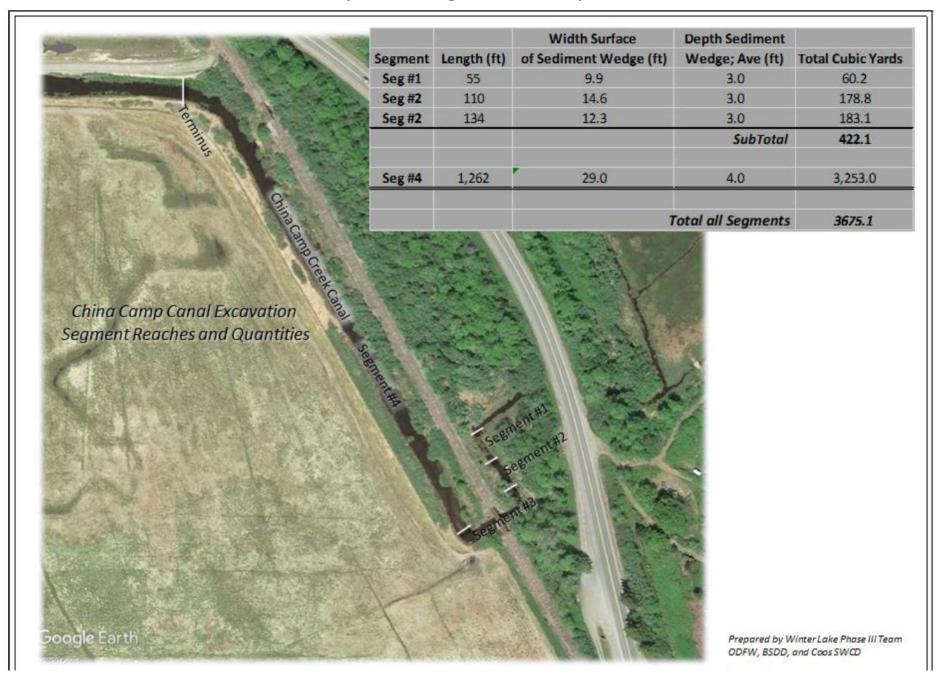
#### Winter Lake Phase III: Canal Excavation and Berm Repair Locations



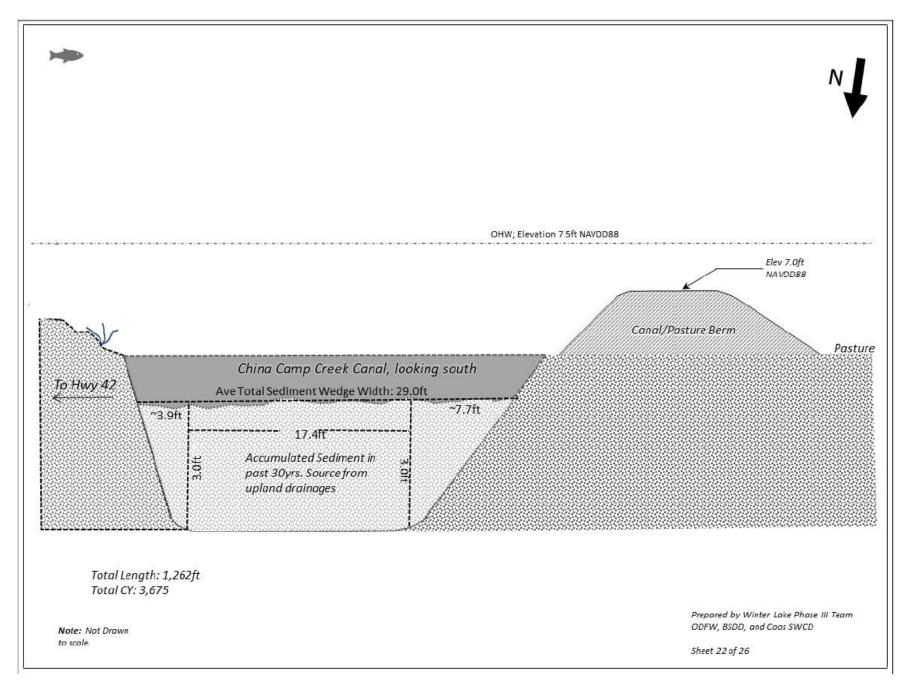
#### Winter Lake Phase III: Berm Repair/Reconstruction Design



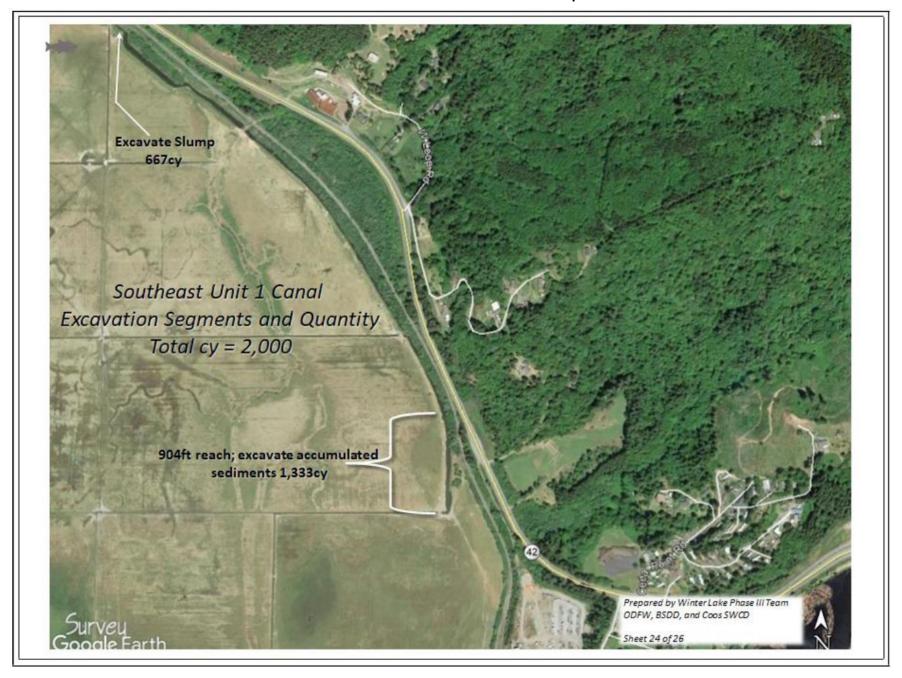
### Winter Lake Phase III: Channel Maintenance Sediment Excavation China Camp Canal Segments and Specifications



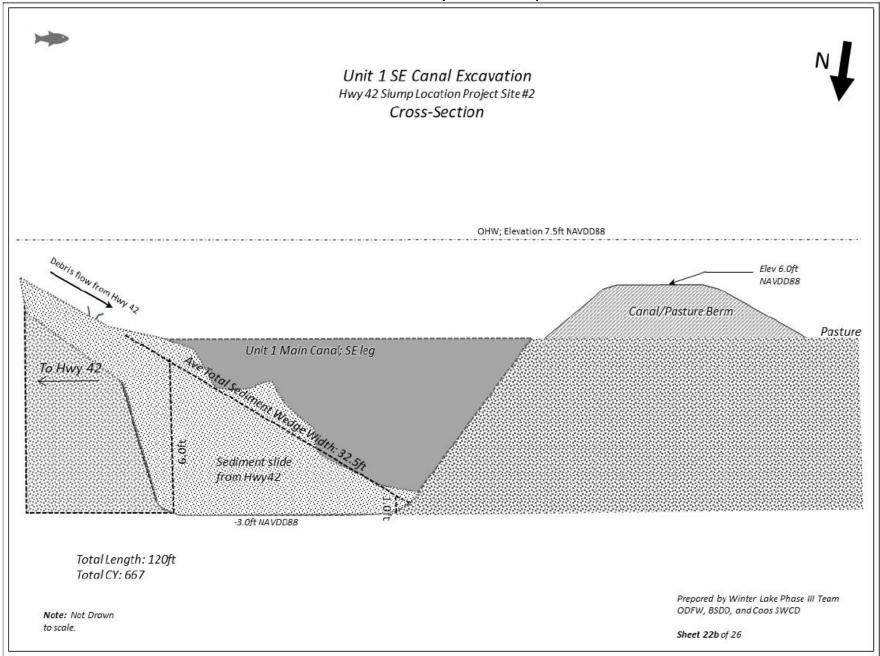
### Winter Lake Phase III: Canal Excavation Location #1, China Camp Creek Canal



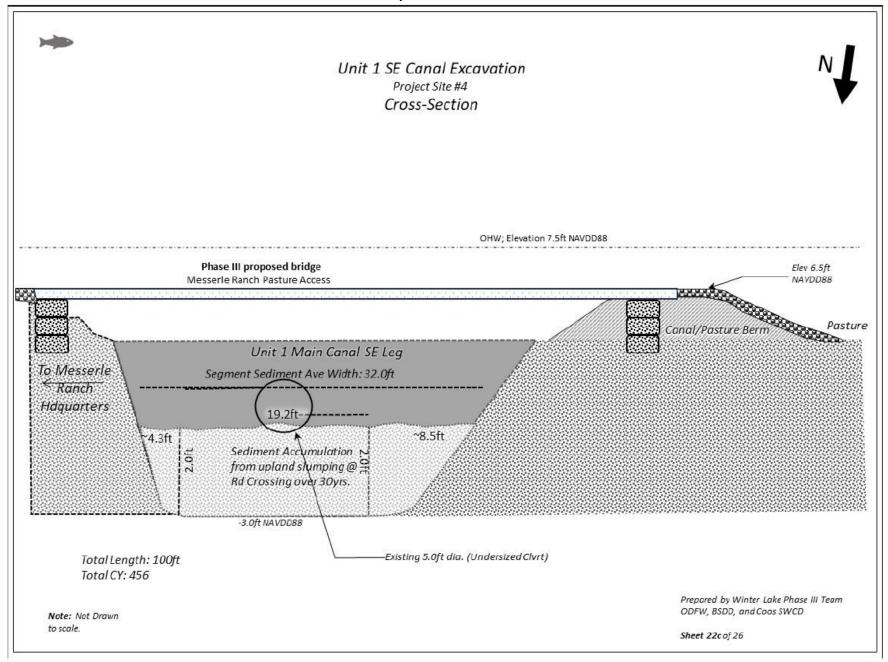
# Winter Lake Phase III: Channel Maintenance Sediment Excavation Southeast Unit I Canal Location and Specifications



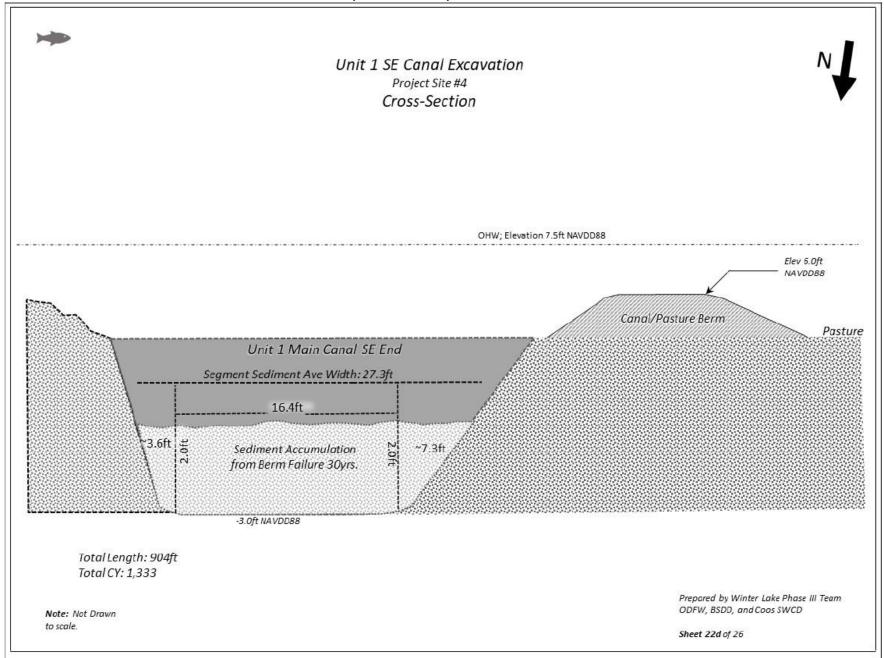
# Winter Lake Phase III: Canal Excavation Location #2 Unit 1, SE Canal, Hwy 42 Slump Removal



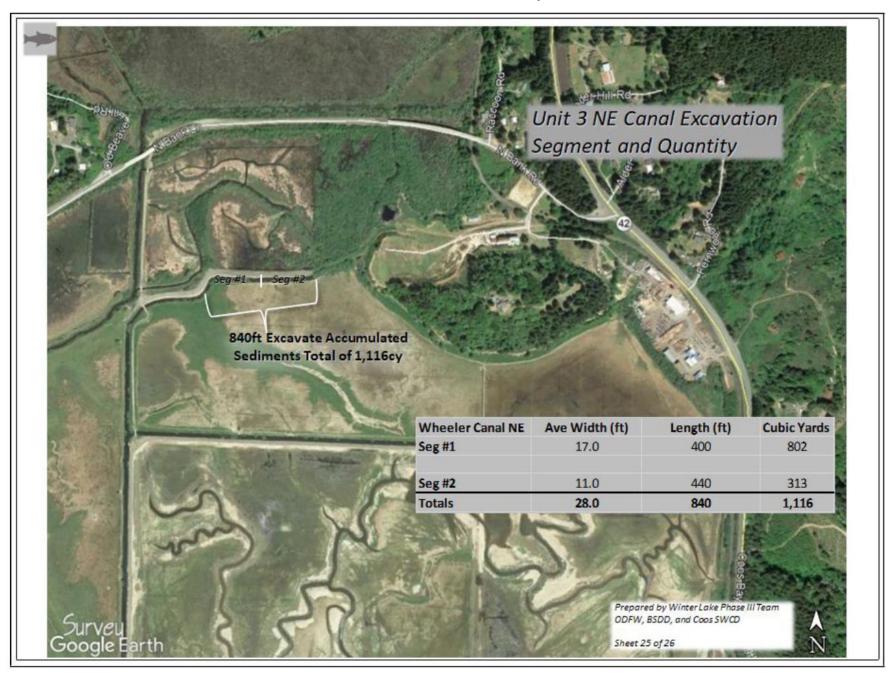
# Winter Lake Phase III: Canal Excavation Location #3 Unit 1, SE Canal, Messerle Ranch pasture access, undersized culvert location



# Winter Lake Phase III: Canal Excavation Location #4 Unit 1, SE Canal, Final 940 feet



# Winter Lake Phase III: Channel Maintenance Sediment Excavation Unit 3 NE Canal Location and Specifications



# Winter Lake Phase III: Canal Excavation Location #5 Unit 3 NE, Final 840 feet

