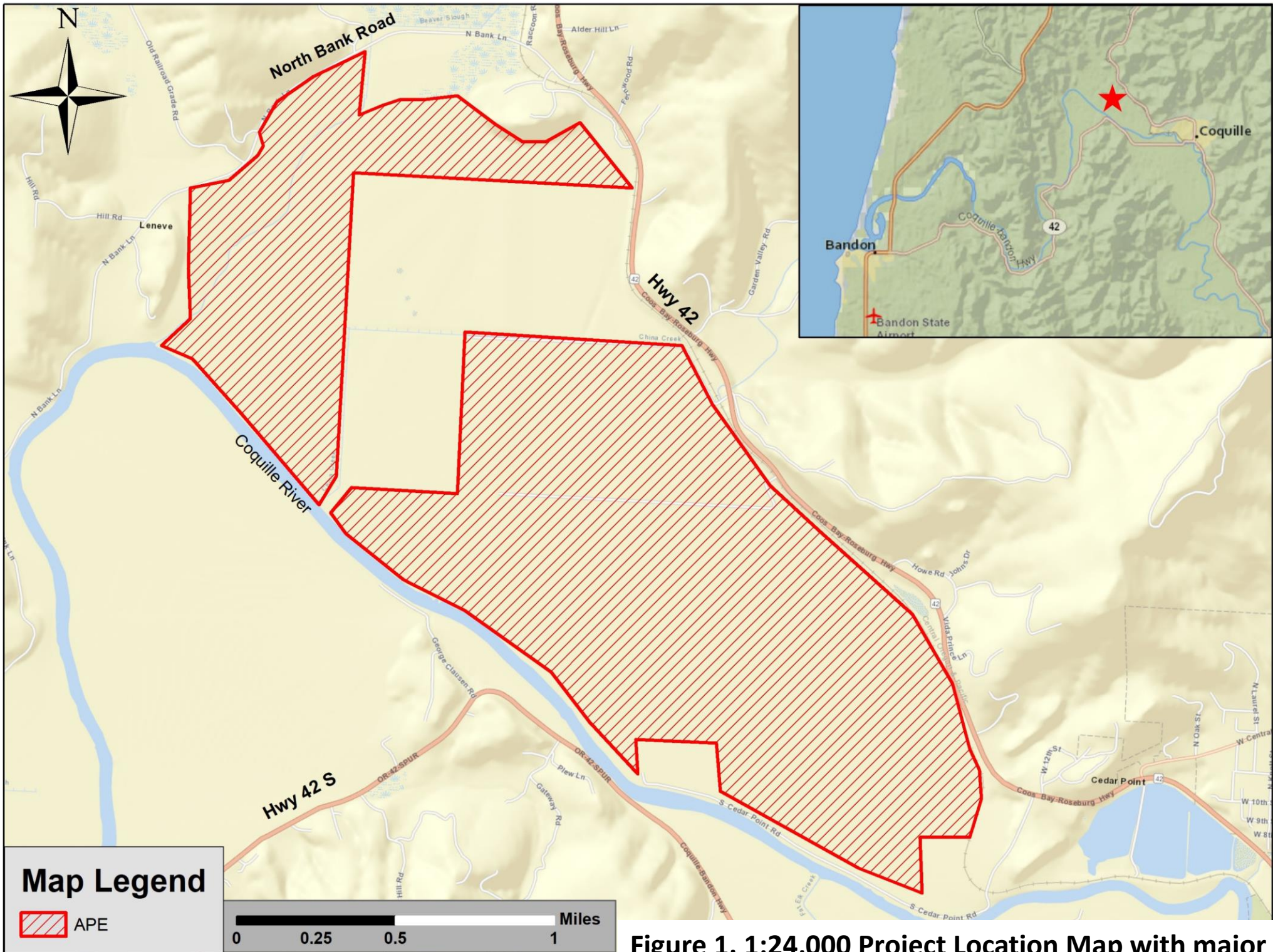


Attachment A:  
FIGURES AND PHOTOS

WINTER LAKE PHASE III



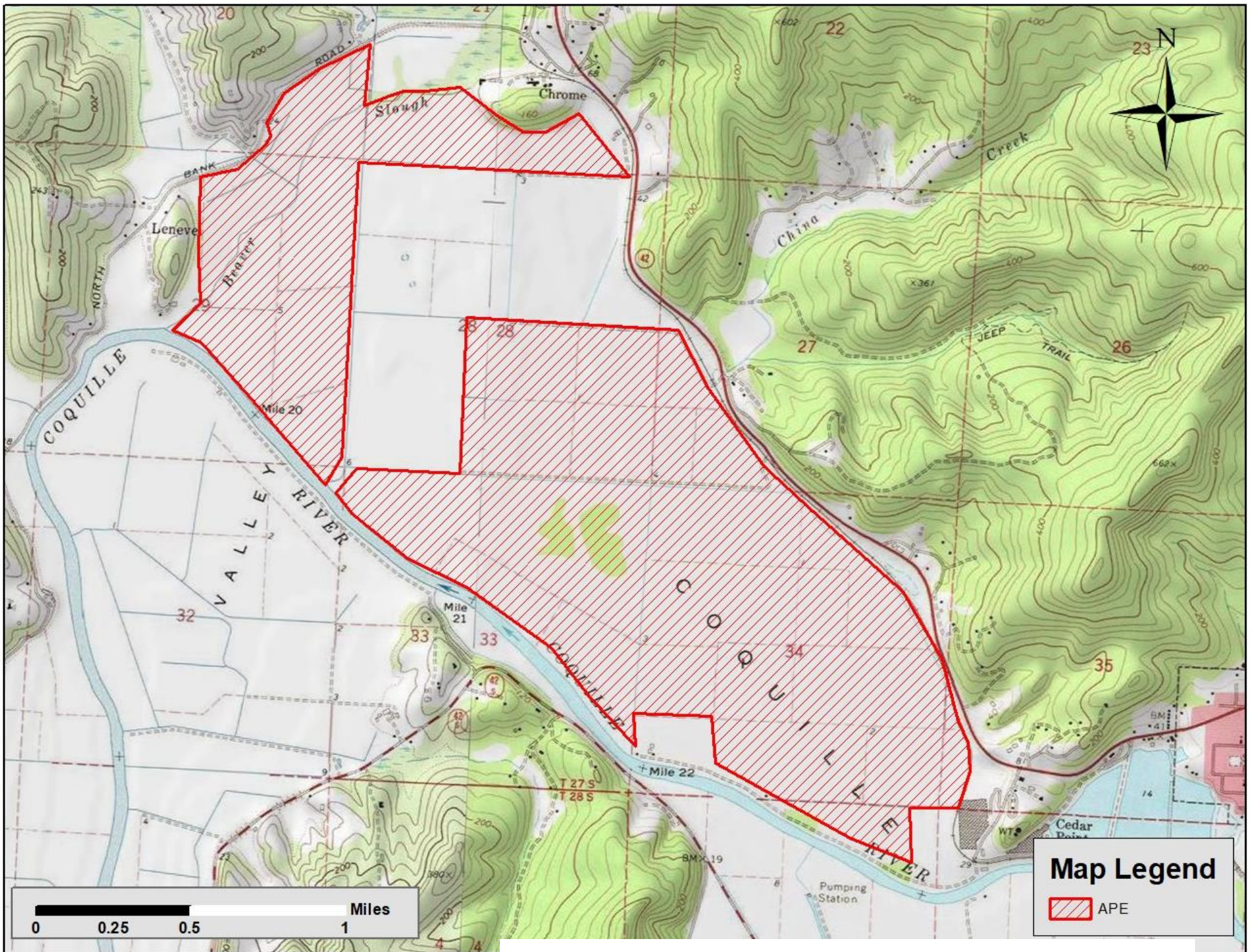
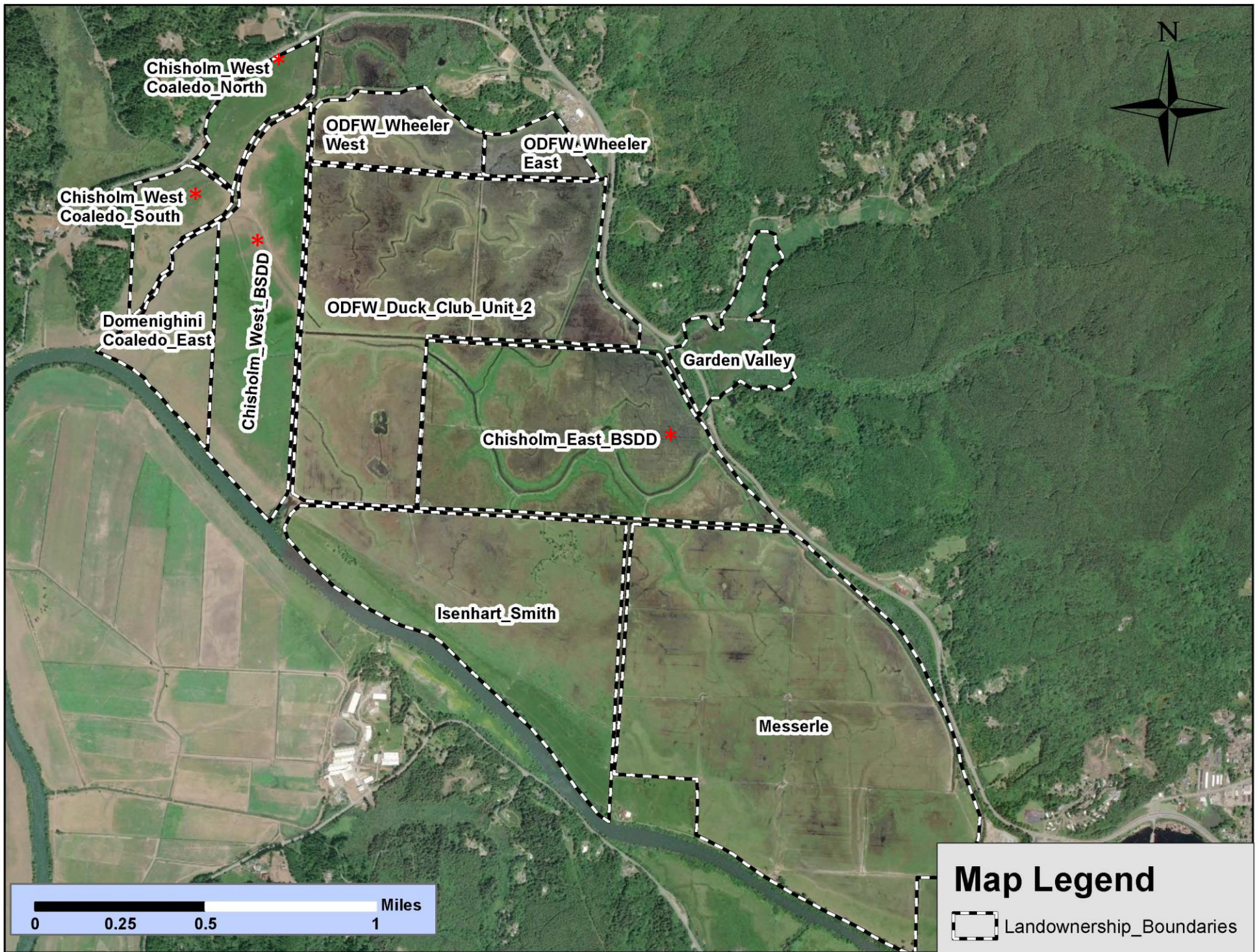


Figure 2. 1:24,000 USGS Topographic Map of Area of Project Effect (APE)



Figure 3. Taxlot ID Map



\*Update 8/6/2022 Chisholm Properties now owned by The Bridges Foundation

**Figure 4. Winter Lake Land Ownership Map**

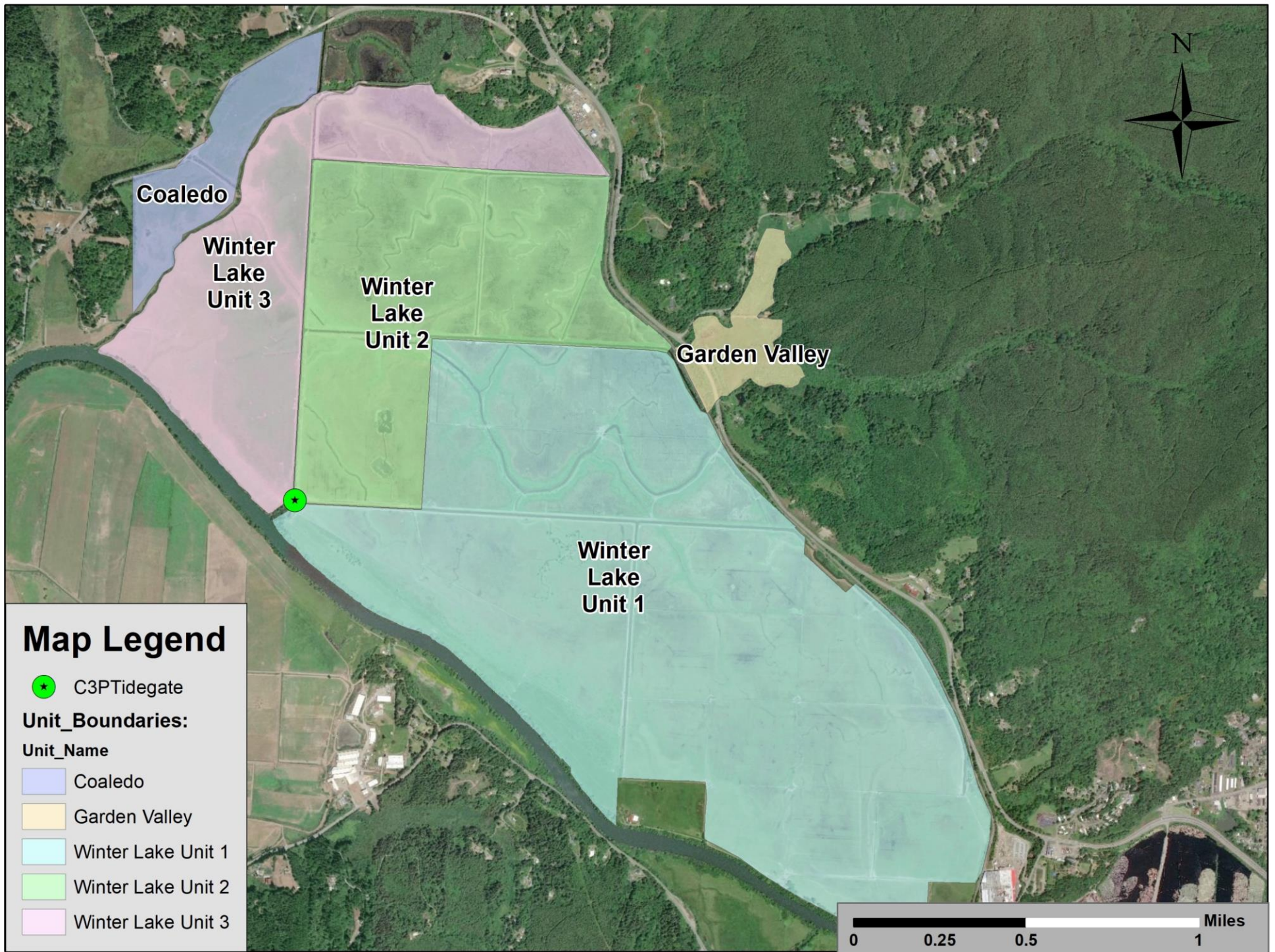
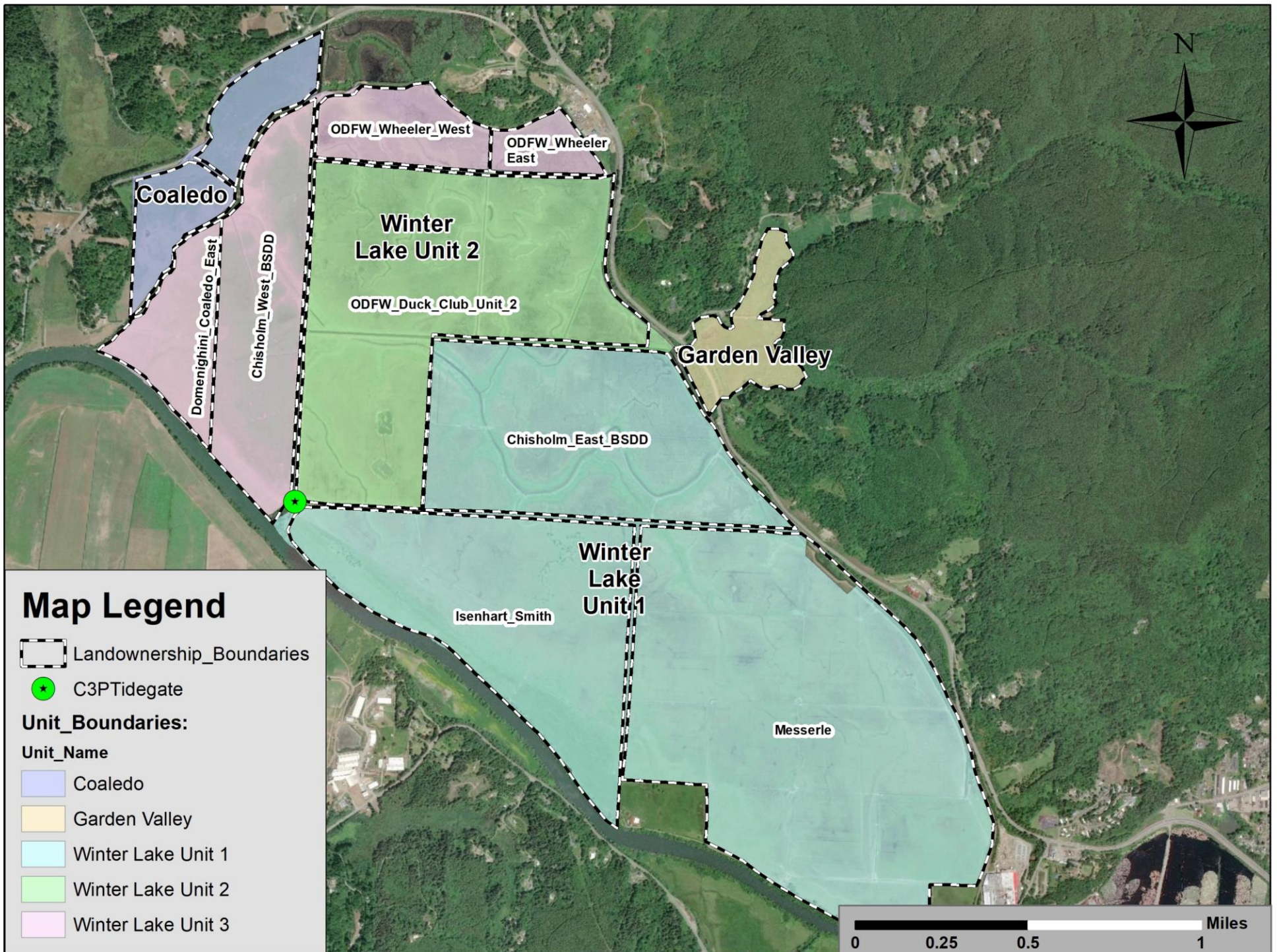


Figure 5. Winter Lake Unit Map



### Map Legend

Landownership\_Boundaries

C3PTidegate

#### Unit\_Boundaries:

##### Unit\_Name

- Coaledo
- Garden Valley
- Winter Lake Unit 1
- Winter Lake Unit 2
- Winter Lake Unit 3

Figure 6. Winter Lake Land Ownership and Unit Map

November 28<sup>th</sup>, 2017



Sept 13<sup>th</sup>, 2017; looking north



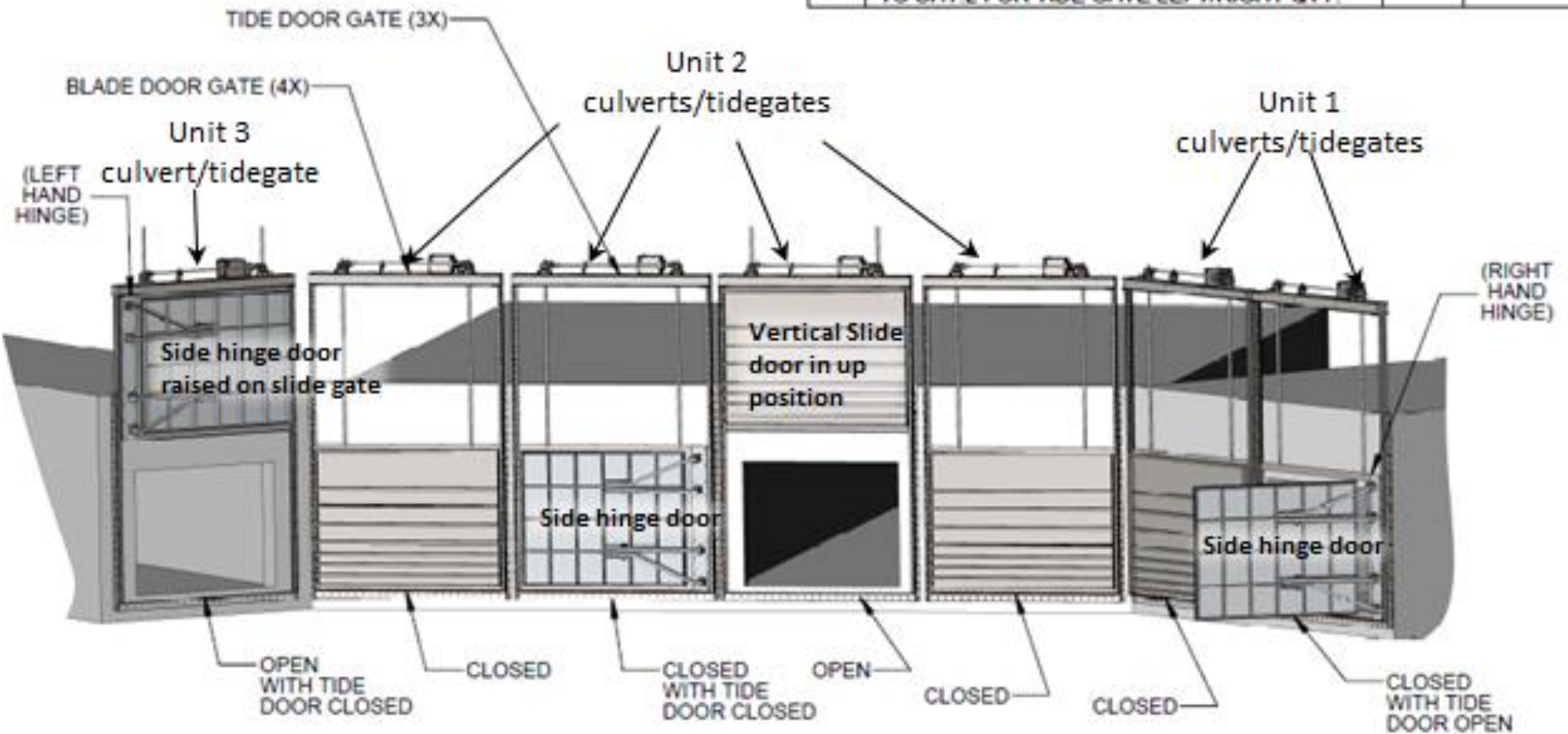
August 21<sup>st</sup>, 2017



Figure 7. Winter Lake Phase I, CP3 Tidegate



REVISIONS:			
REV.	DESCRIPTION	DATE	DRAWN
00B	MOVED GATES PER CUSTOMER EMAIL. MADE ONE TIDE GATE LEFT HANDED. ADDED NOTE TO SHT. 2 FOR TIDE GATE LEFT/RIGHT QTY.	4/12/17	REUTER



PROPOSED CONCEPTUAL SITE VIEW  
 4 GATES WITHOUT TIDE DOORS  
 3 GATE WITH TIDE DOORS  
 SHOWN IN VARIOUS OPENED/CLOSED STATES

UNLESS OTHERWISE NOTED DIMENSIONS AND TOLERANCES ARE IN INCHES. STANDARD TOLERANCES: .XX = +/- .01 .XXX = +/- .005 XX* = +/- 1"		<b>Watch Technologies, Inc</b> 2185 SPALDING AVE. SUITE 10 GRANT'S PASS, OR 97526 OFFICE: 541.472.6095 CELL: 541.660.3182		PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WATCH TECHNOLOGIES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WATCH TECHNOLOGIES, INC. IS PROHIBITED.	
NAME:	DATE:	JOB:	DWG:		
DRAWN: REUTER	4/7/17	CUSTOMER: CHINA CREEK	PROPOSED CONCEPT SITE GATES		
APPROV:		SCALE: DO NOT SCALE	SHT. 1 OF 2		REV.: 00B
RELEASE:					

Figure 8. Winter Lake Phase I, CP3 Tidegate



**Figure 9. Winter Lake Phase II, Unit 2 Tidal Channel Restoration**

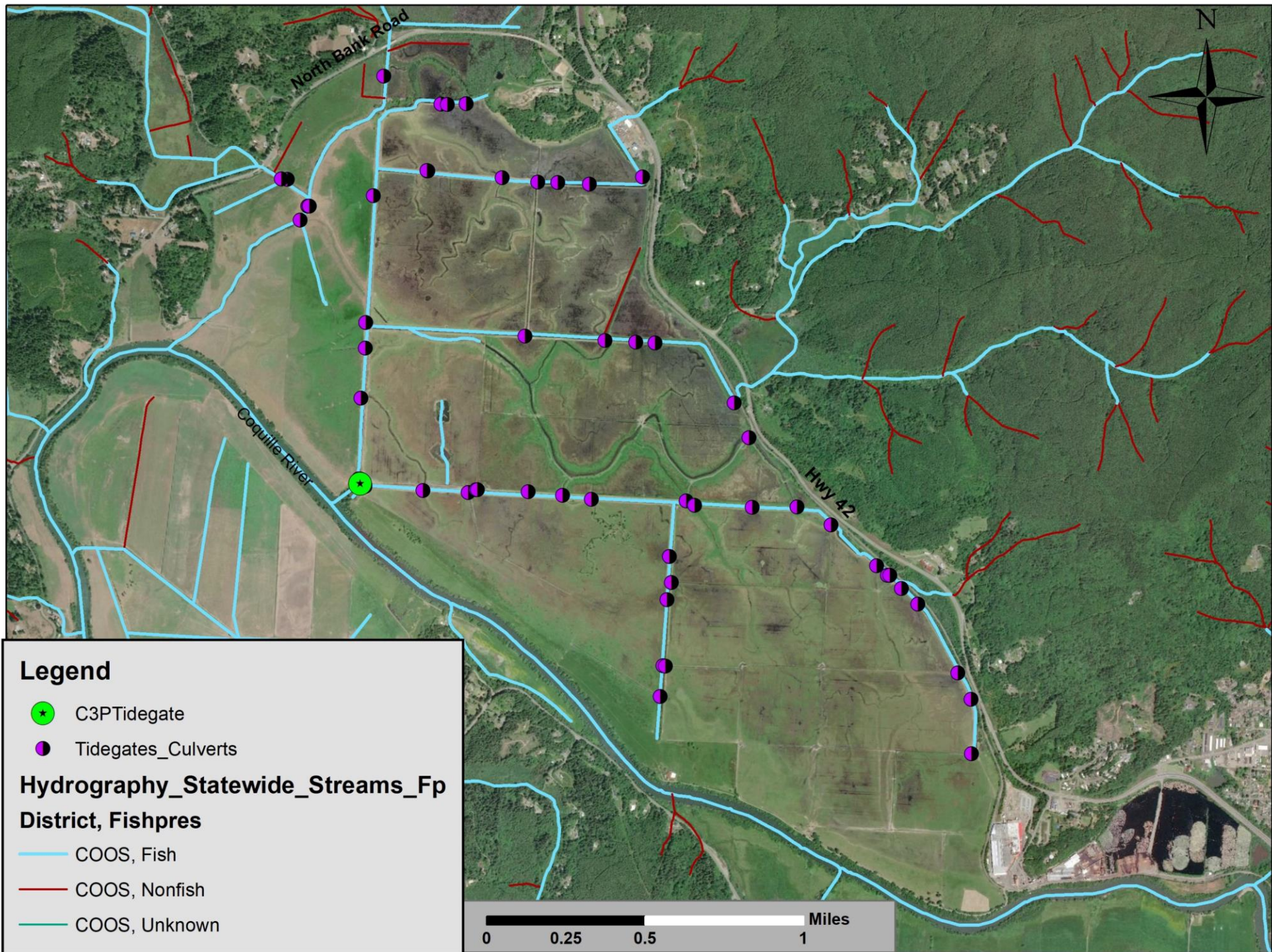


Figure 10. Winter Lake Aerial Imagery with existing linear channel network



**Figure 11. "Flapper" and Top-hinge style interior tidegates**

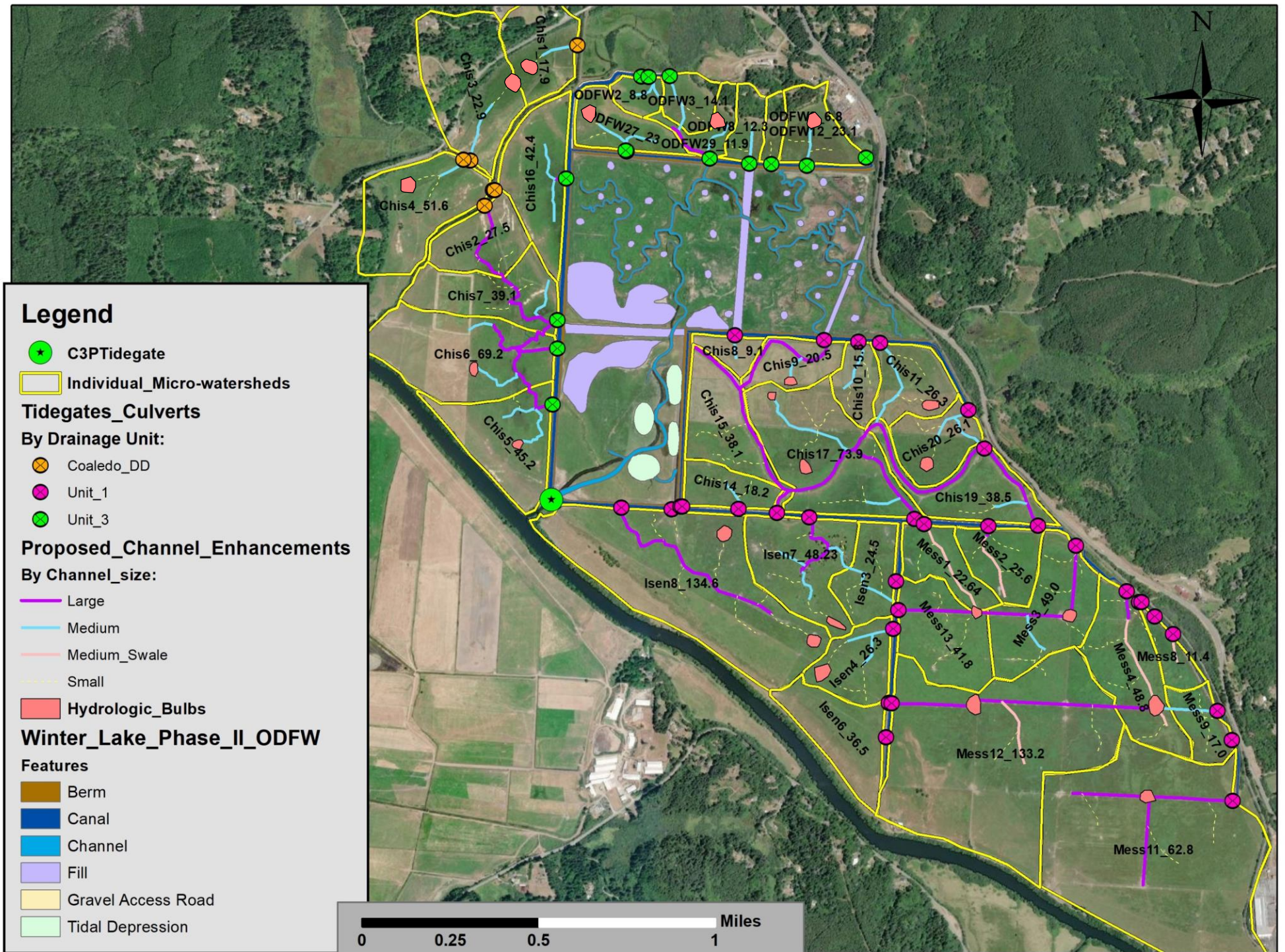
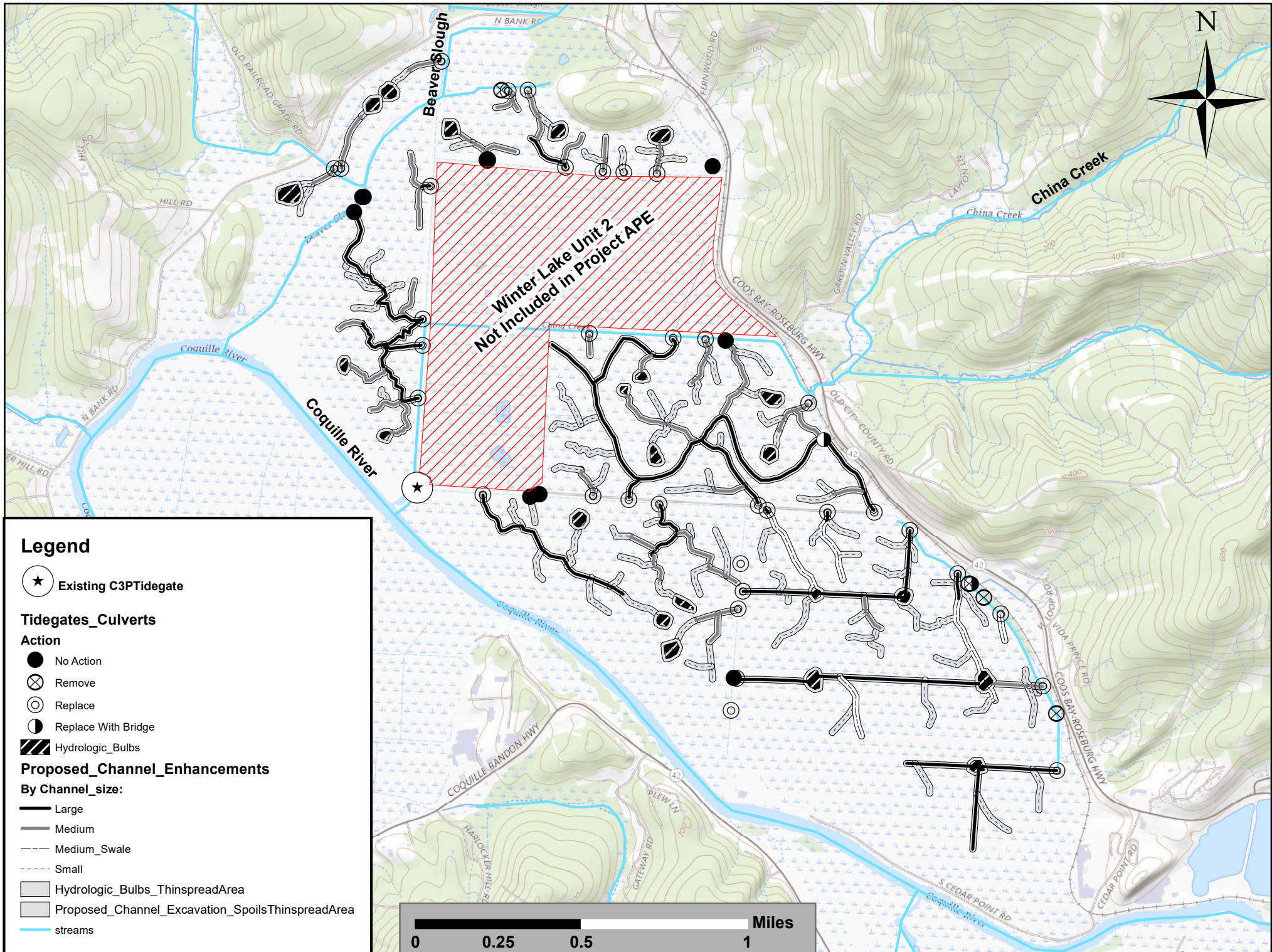


Figure 12. Individual micro-watersheds associated with culverts and proposed channel enhancements



**Figure 12.b Geographic Extent of Excavated Spoils**



**Figure 13. Examples of a side-hinge aluminum tidegate**

## Aluminum Waterman Style Gate



<http://www.agriexpo.online/prod/waterman-industries/product-174233-19232.html>

**Figure 14. Aluminum Waterman Style gate**



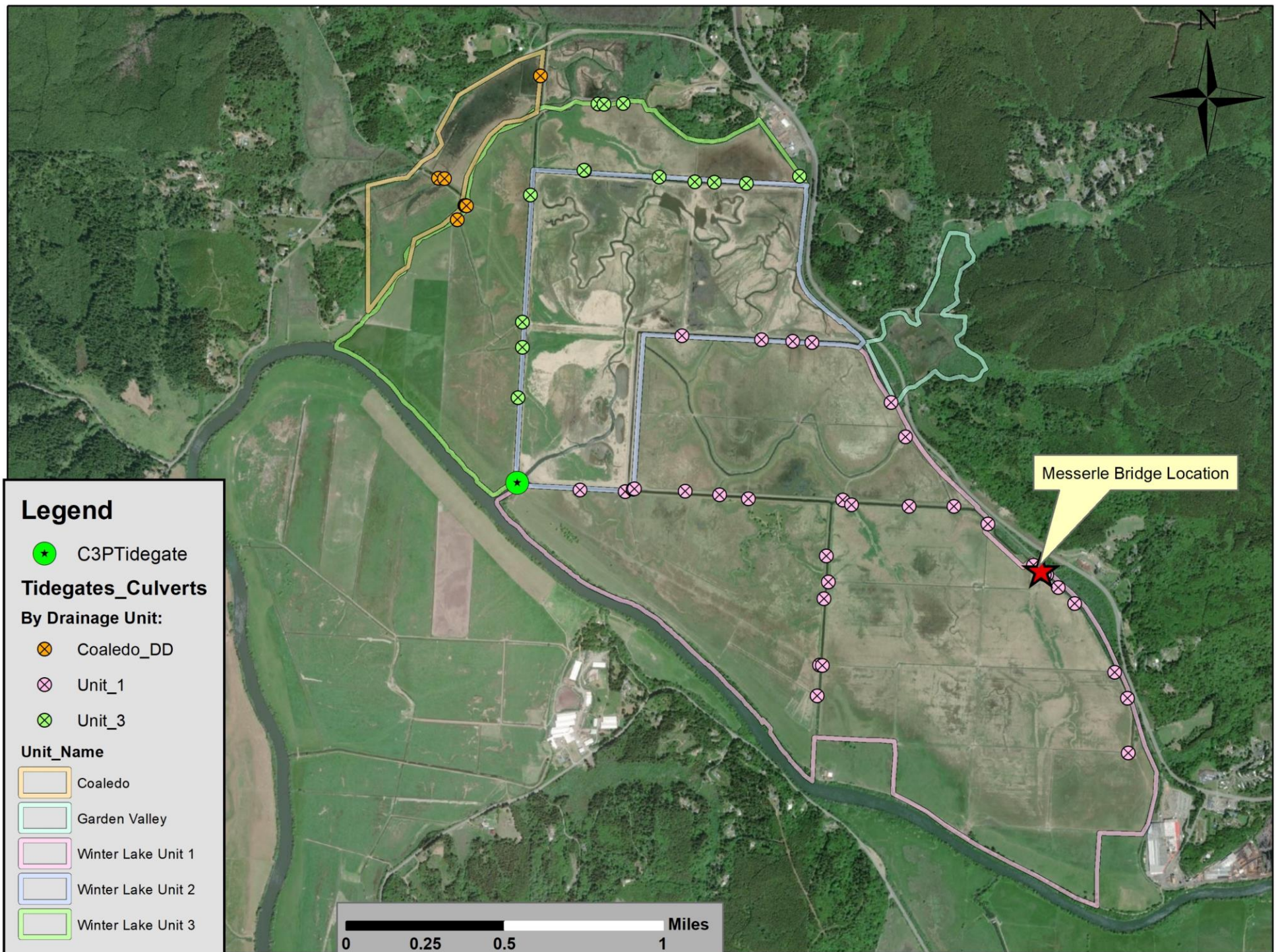


Figure 15. Messerle Bridge Location Map



Culvert-to-Bridge Location

**Figure 16. Bridge Site Photo**

4.18.2020 - Water level = 2.43'  
 Canal Invert = -2.0

Excavation:

Hill  
 Middle  
 field.

Fill:  
 Field Approach

Road Profile

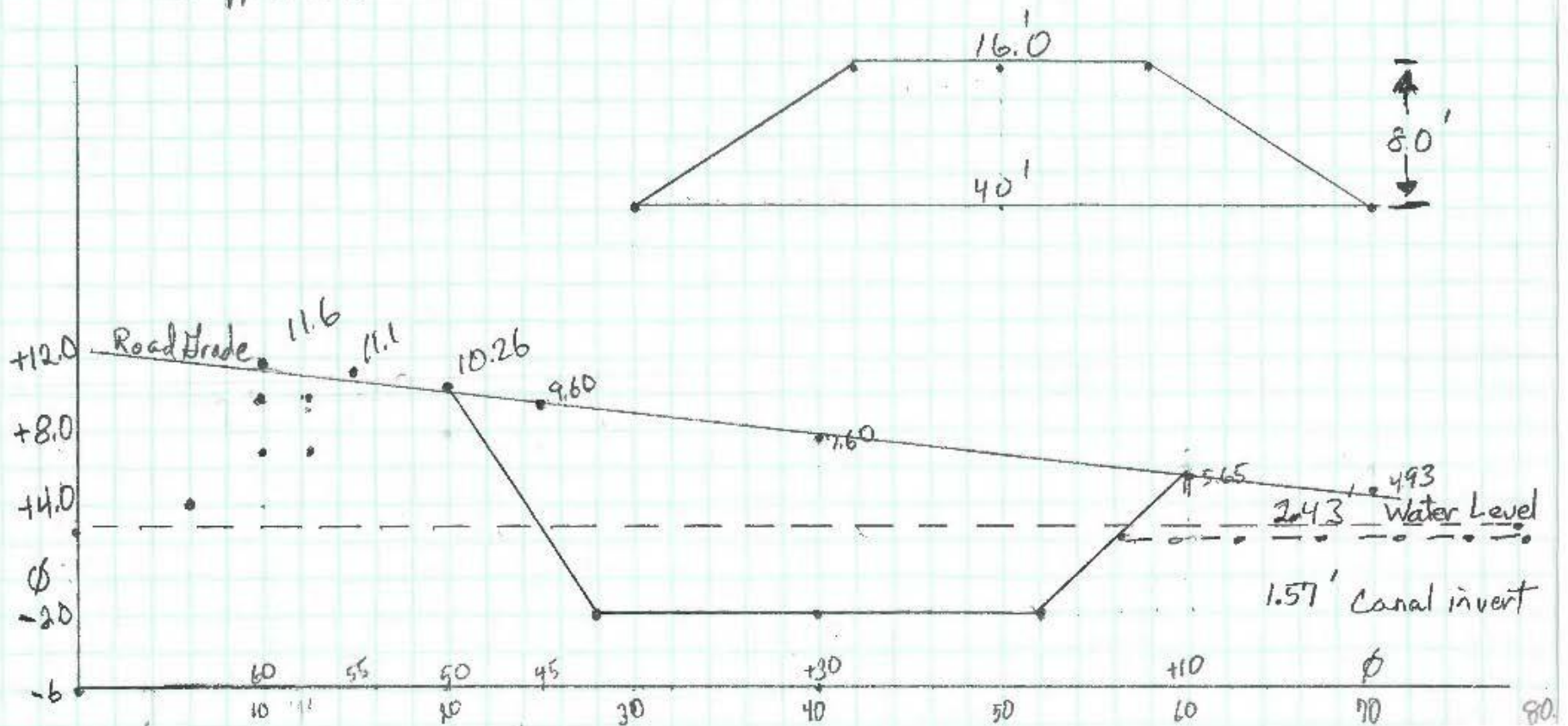


Figure 17. Bridge Design Drawing

MTS Bridge - Unit 1 East Canal  
 60' RR Bridge with 10' Wide Deck.  
 12" I Beam Header  
 3 - Eco Blocks  
 3" shallow Mat Pad Foundation  
 with 12" 3"  $\phi$  fabric Burrito Waps

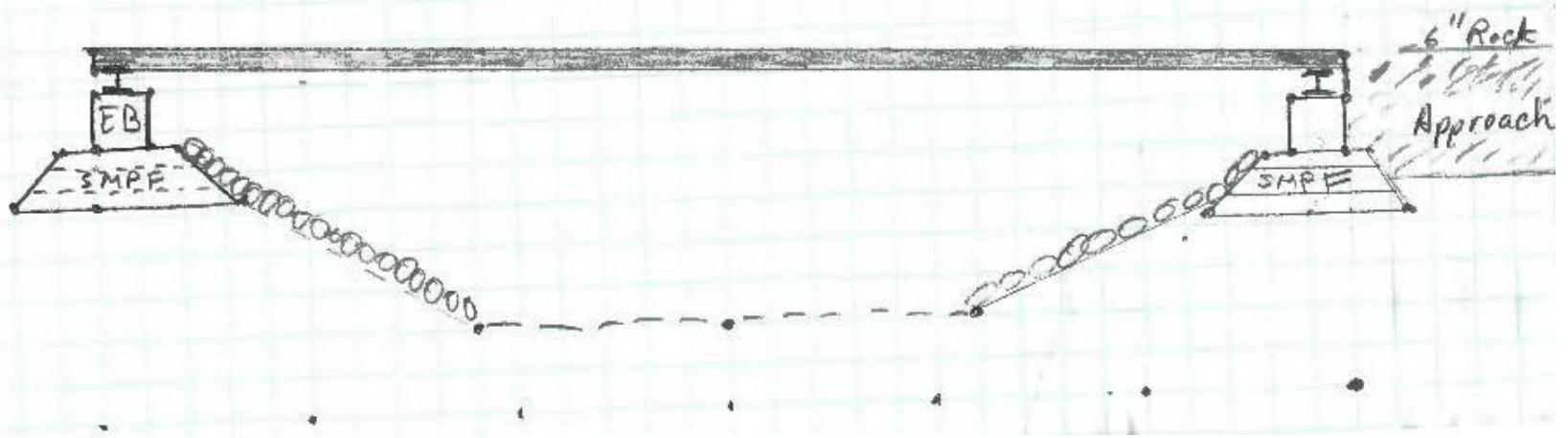
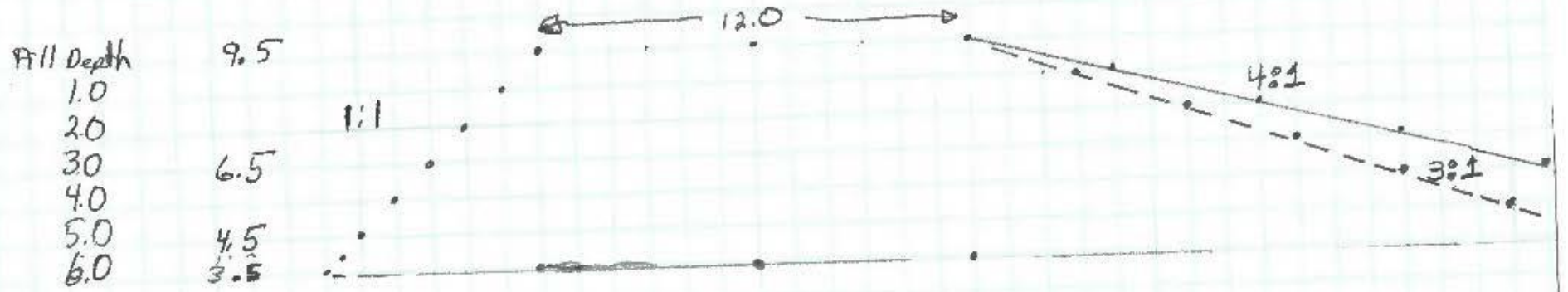


Figure 18. Bridge Design Drawing

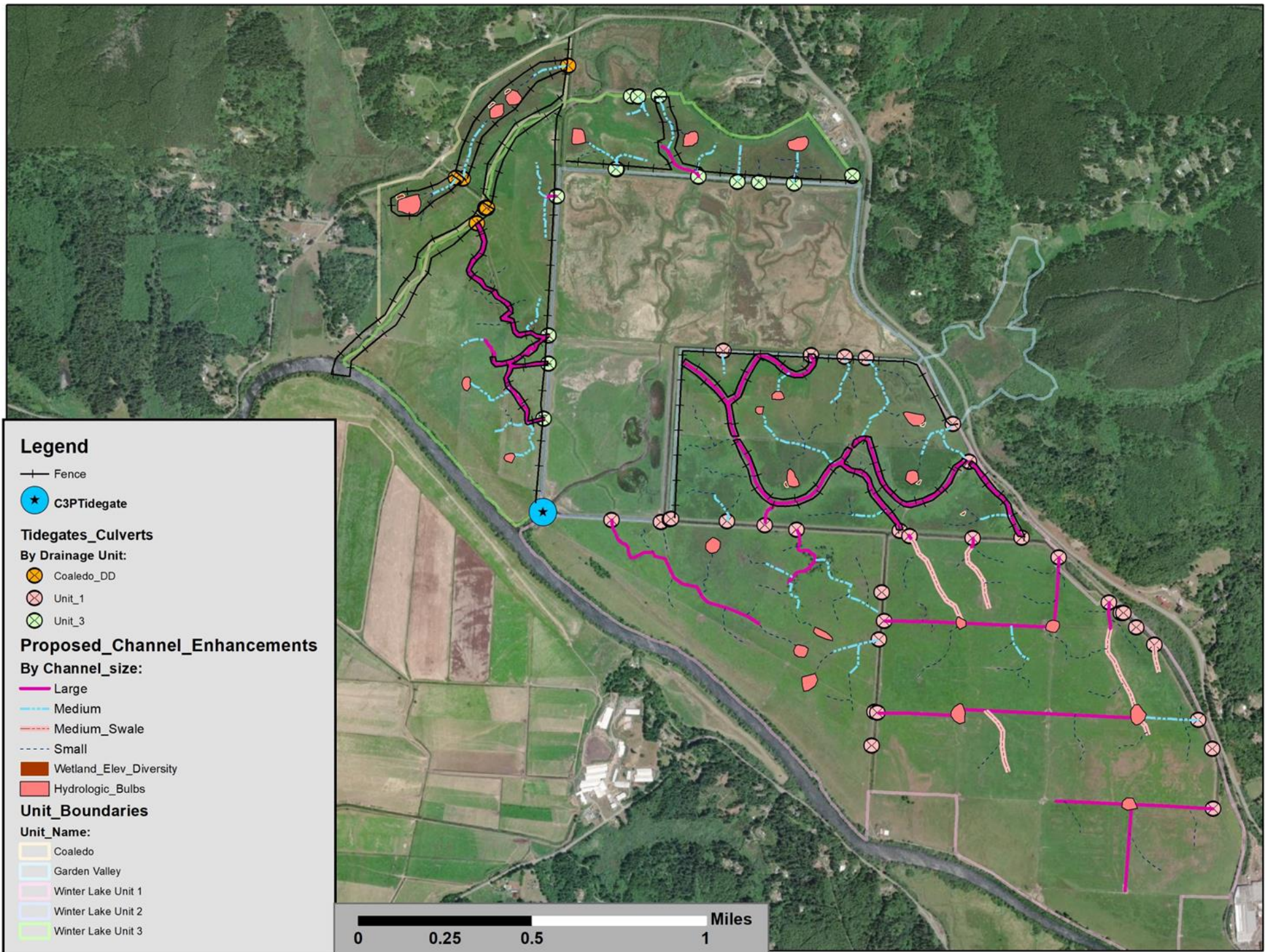
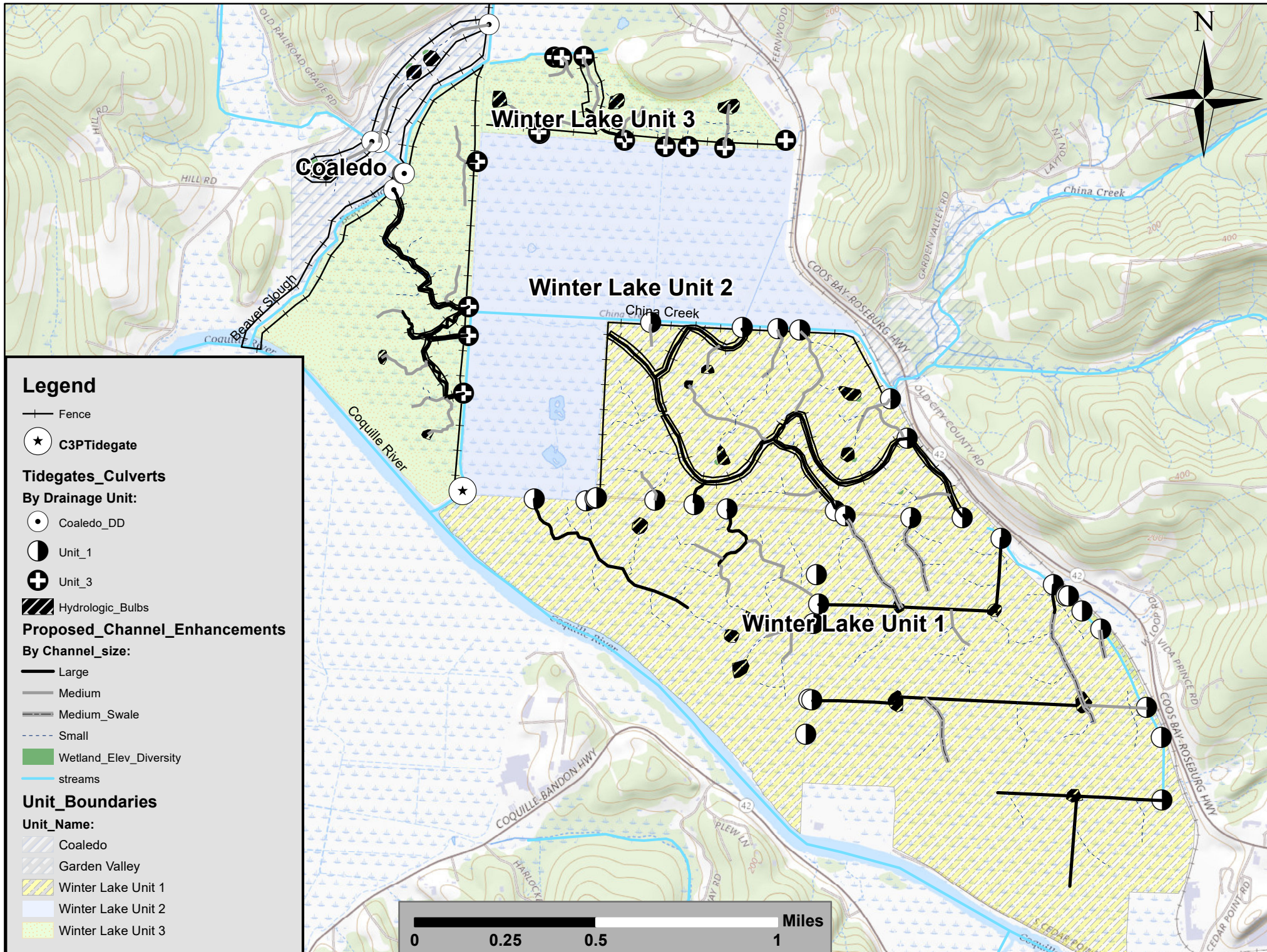


Figure 19. Winter Lake Phase III Proposed Channel Enhancements

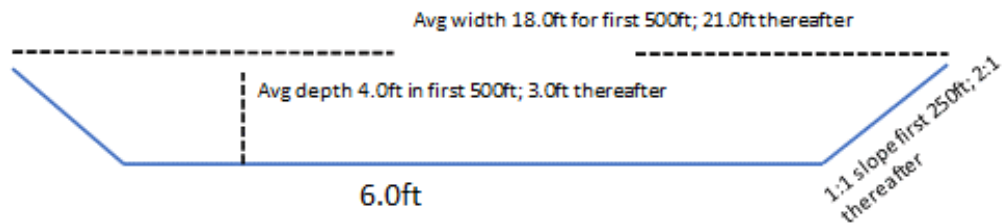


**Figure 19.b (Revised) Winter Lake Phase III Proposed Channel Enhancements**

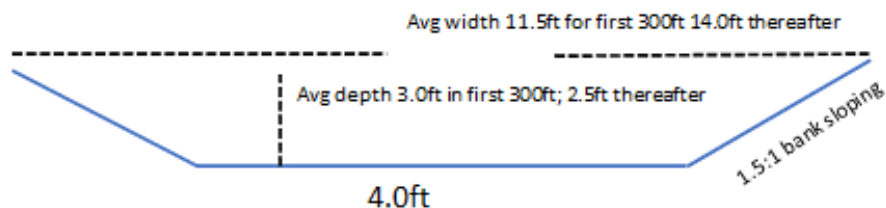


## Pasture Channel Cross-Sections

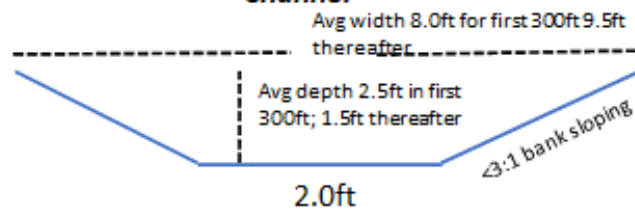
### Large Channel



### Medium Channel



### Small Channel



**Note:** For large channels first 500ft and for medium channels the first 300ft of selected channels that connect to main canals will have a invert grade that is steeper.

**Note:** Channel drawings not to scale.

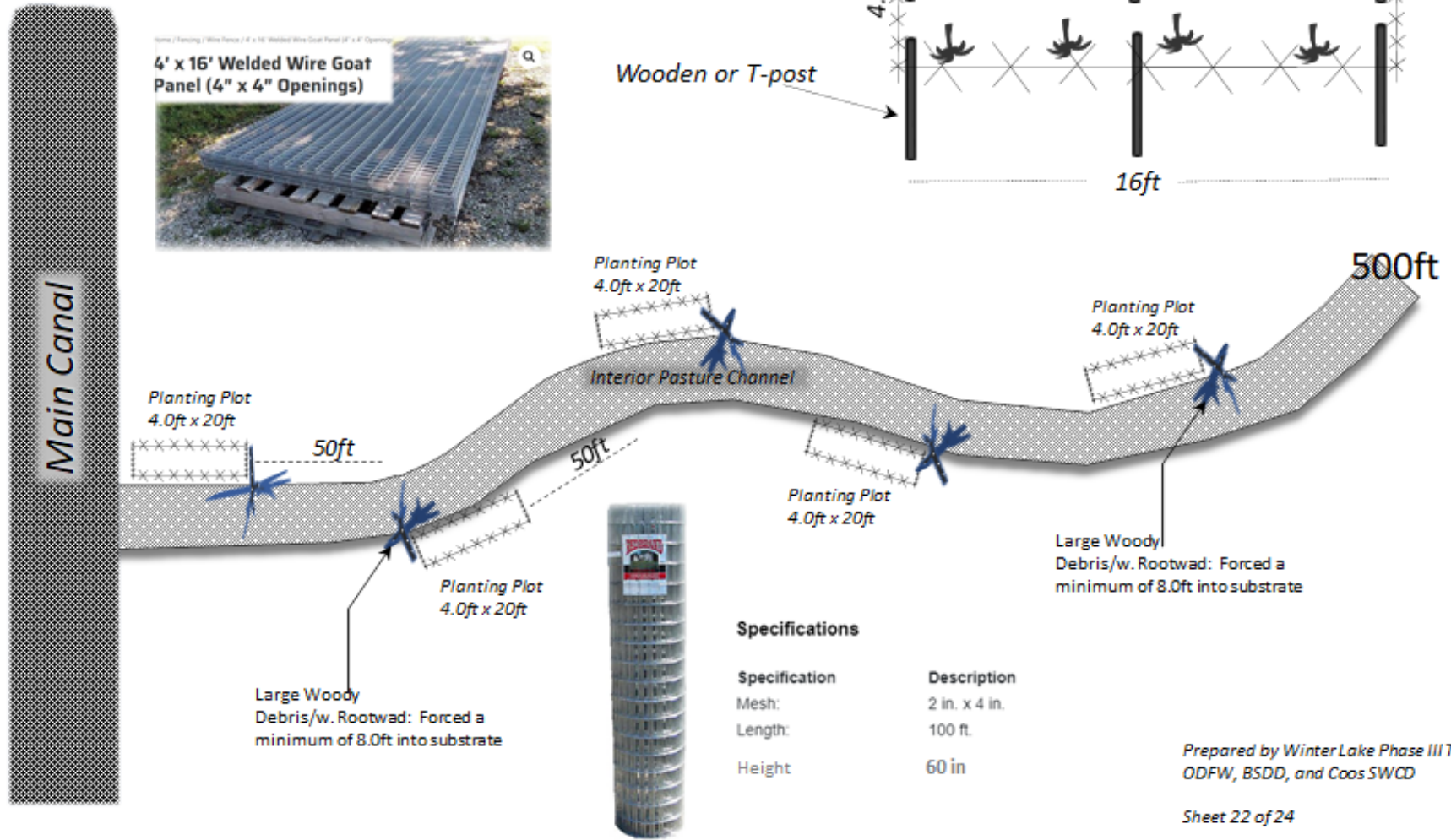
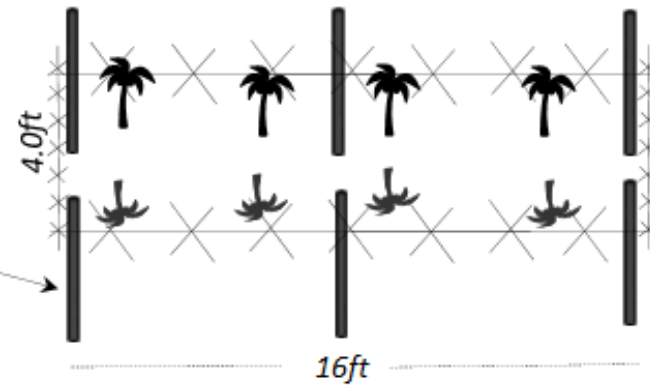
Figure 20. Pasture Channel Cross Sectional Drawings



## Large/Medium Connecting Channel Skip Planting Concepts Option #1

**Planting Plots #1:** Welded panels or wire; 4.0w x 20ft in length alternated on channel sides with 50ft spacing. Trees planted (cottonwood or ash) inside enclosure 8 total trees planted on six ft spacing. Planting plots are on large and medium channels that connect to main canals for first 500ft. **Note:** Welded panels or wire is needed with 4"x4" mesh to protect trees from livestock and beaver.

### Expanded Plot View



**Figure 21. Photos of existing shallow swale channels**

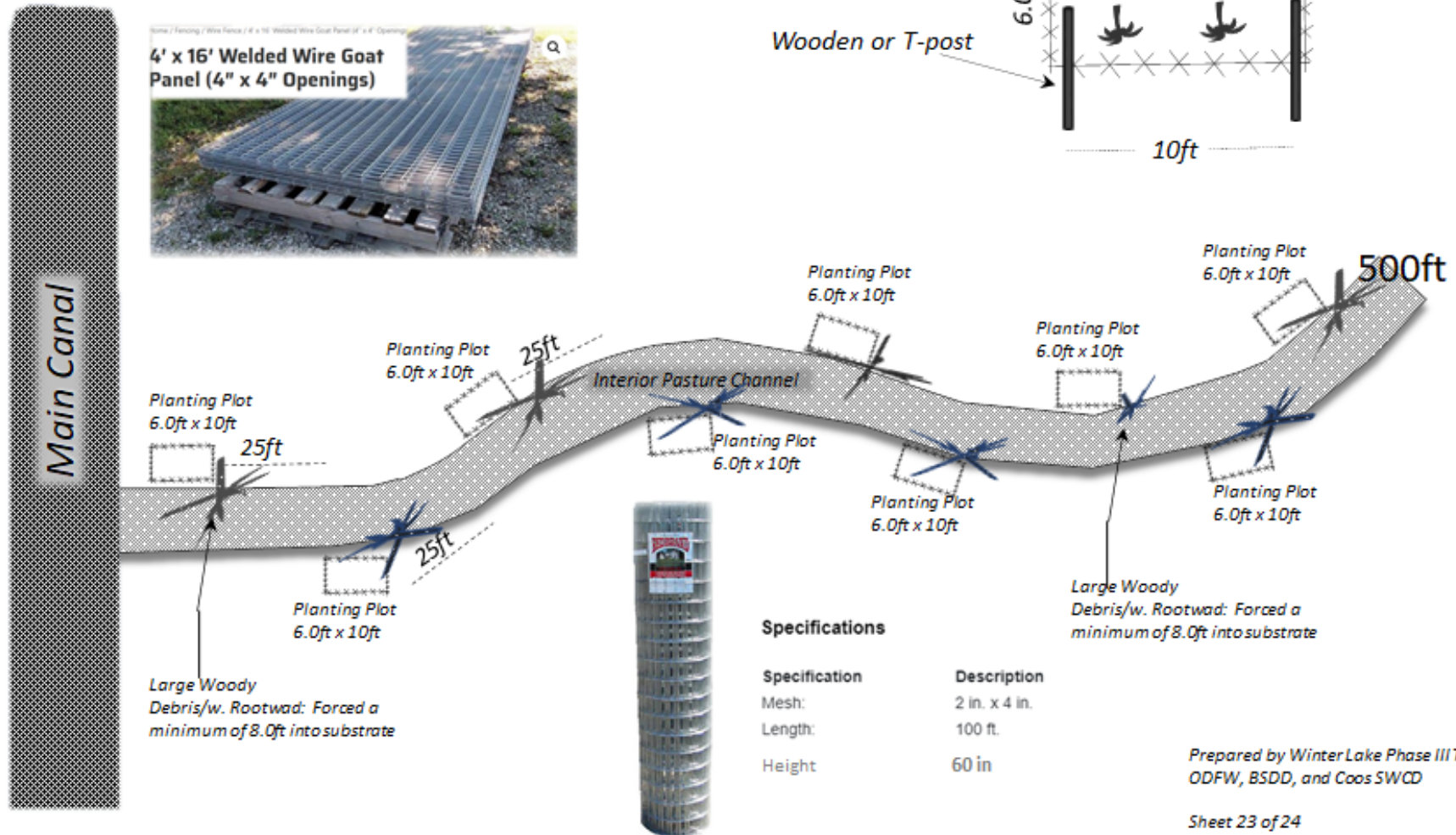
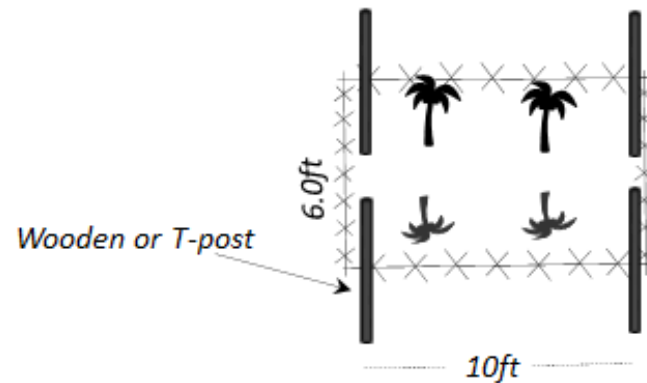




## Large/Medium Connecting Channel Skip Planting Concepts Option #2

**Planting Plots #2:** Welded panels or wire; 4.0w x 10ft in length alternated on channel sides with 25ft spacing. Trees planted (cottonwood or ash) inside enclosure 8 total trees planted on six ft spacing. Planting plots are on large and medium channels that connect to main canals for first 500ft. **Note:** Welded wire is needed with 4"x4" mesh to protect trees from livestock and beaver.

### Expanded Plot View



#### Specifications

Specification	Description
Mesh:	2 in. x 4 in.
Length:	100 ft.
Height	60 in

Prepared by Winter Lake Phase III Team  
ODFW, BSDD, and Coos SWCD

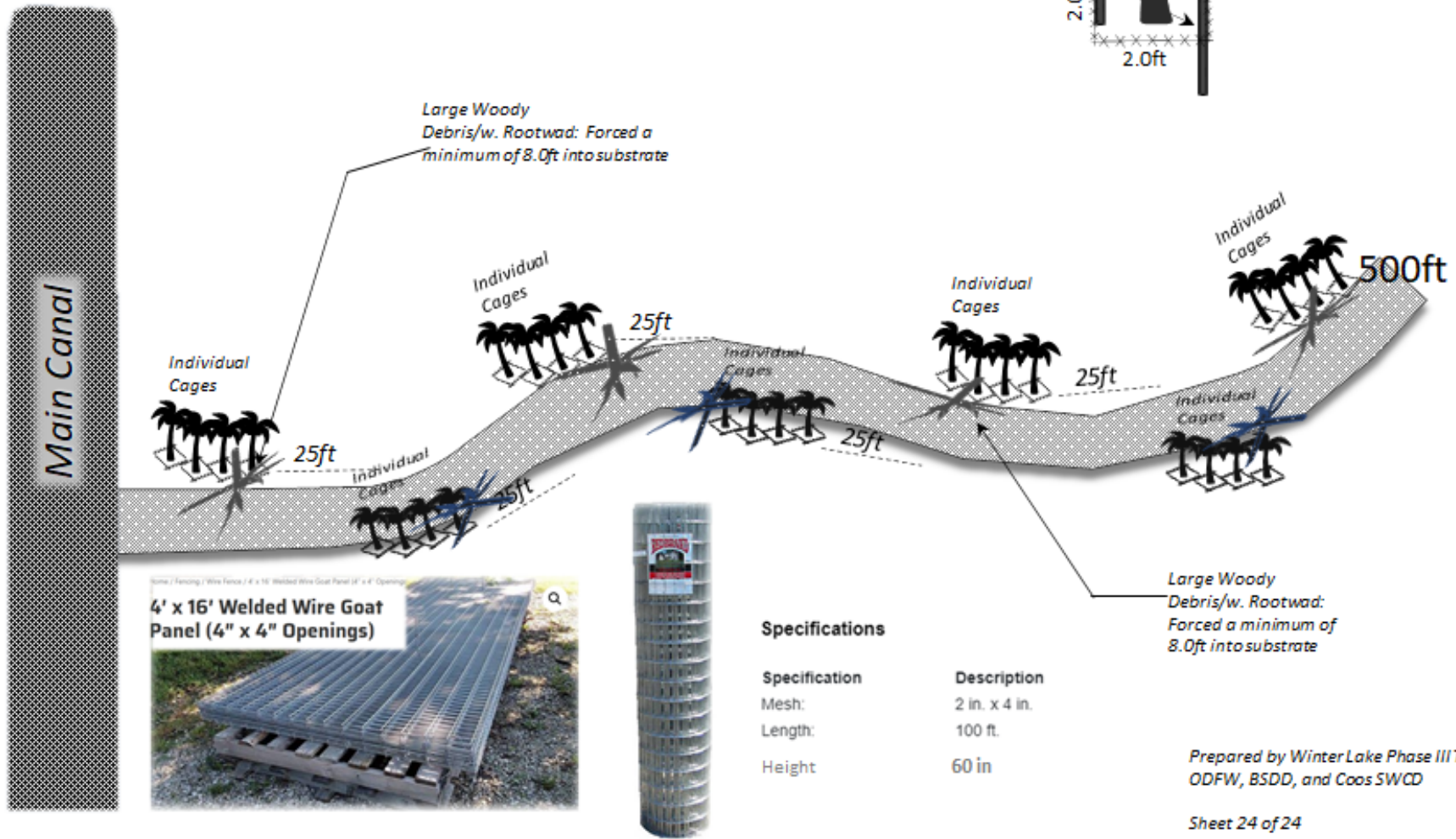
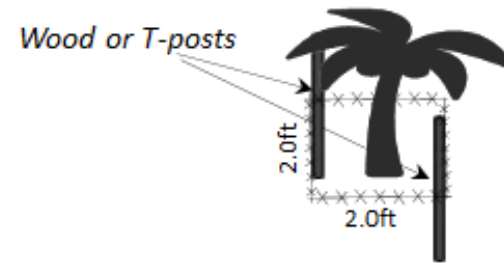
Sheet 23 of 24

Figure 22. Photos of existing shallow swale channels

## Large/Medium Connecting Channel Skip Planting Concepts Option #3

**Planting Plots #2:** Welded panels or wire around individual trees planted in groups of 4 trees with 8ft spacing alternating every 25 ft of channel. Trees planted (cottonwood or ash) inside. Plantings on large and medium channels that connect to main canals for first 500ft. **Note:** Welded panels or wire is needed with 4"x4" mesh to protect trees from livestock and beaver.

### Expanded Plot View



**Figure 23. Photos of existing shallow swale channels**

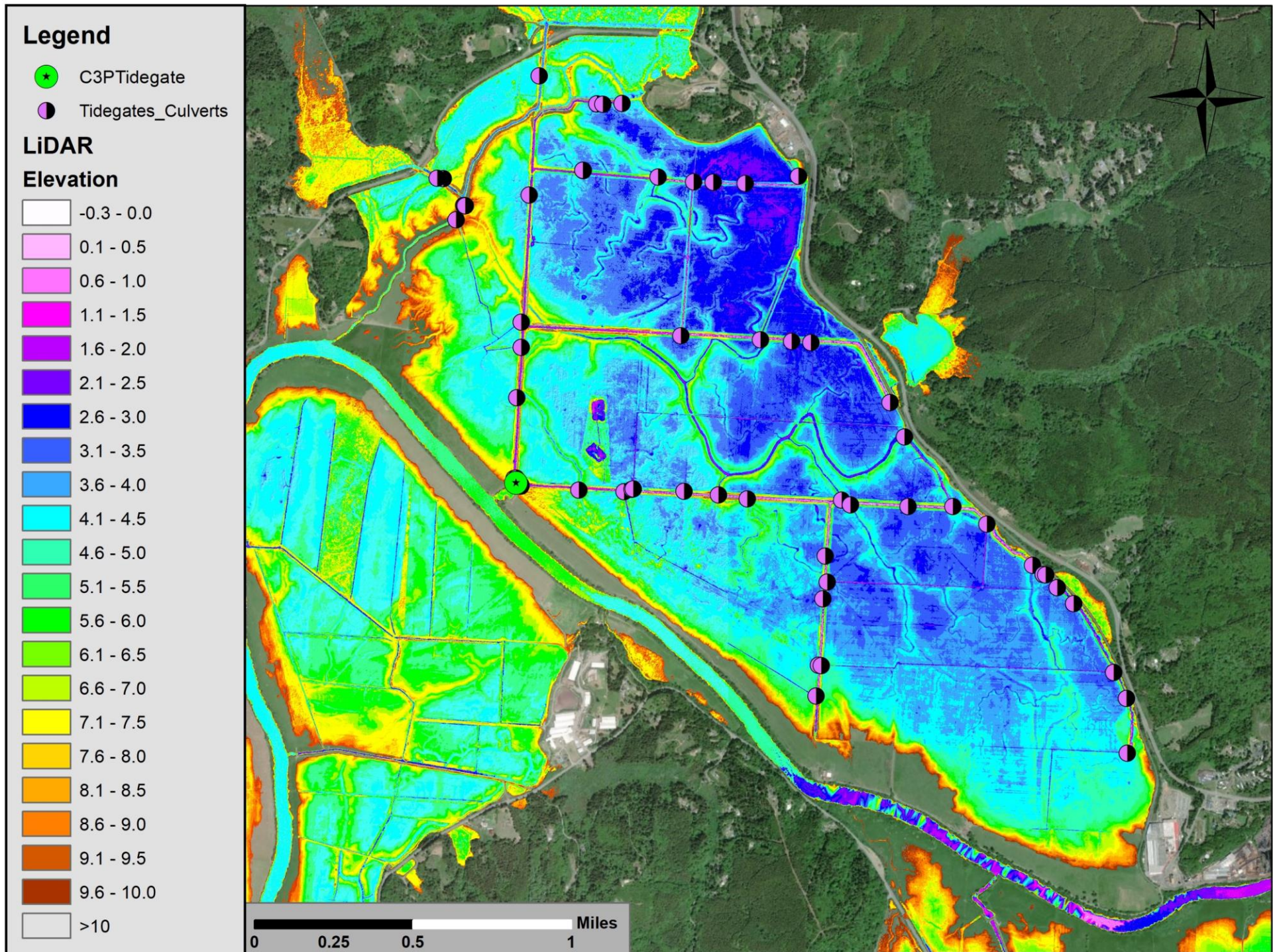


Figure 24. LiDAR color map

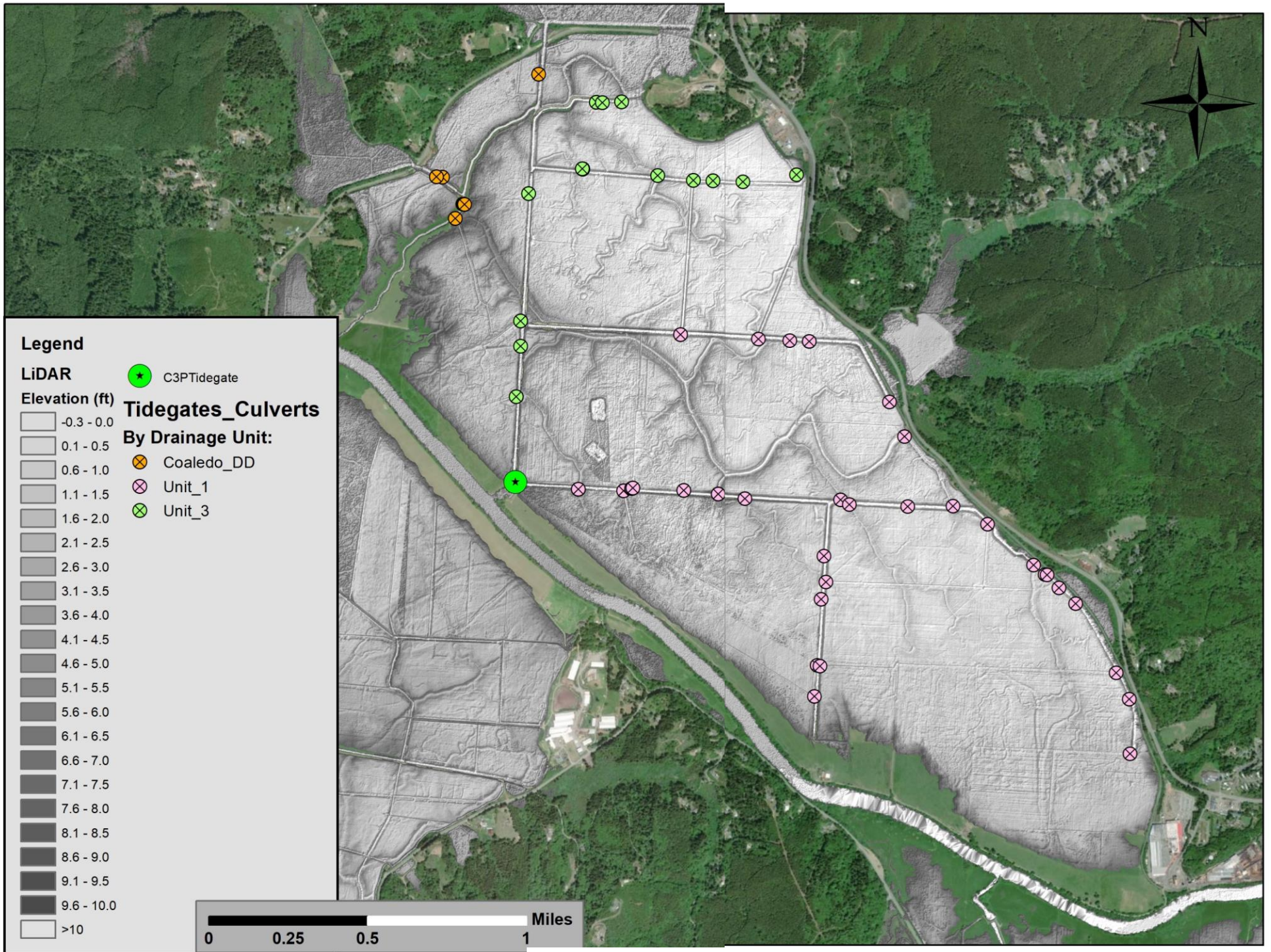


Figure 25. LiDAR Hillshade Imagery



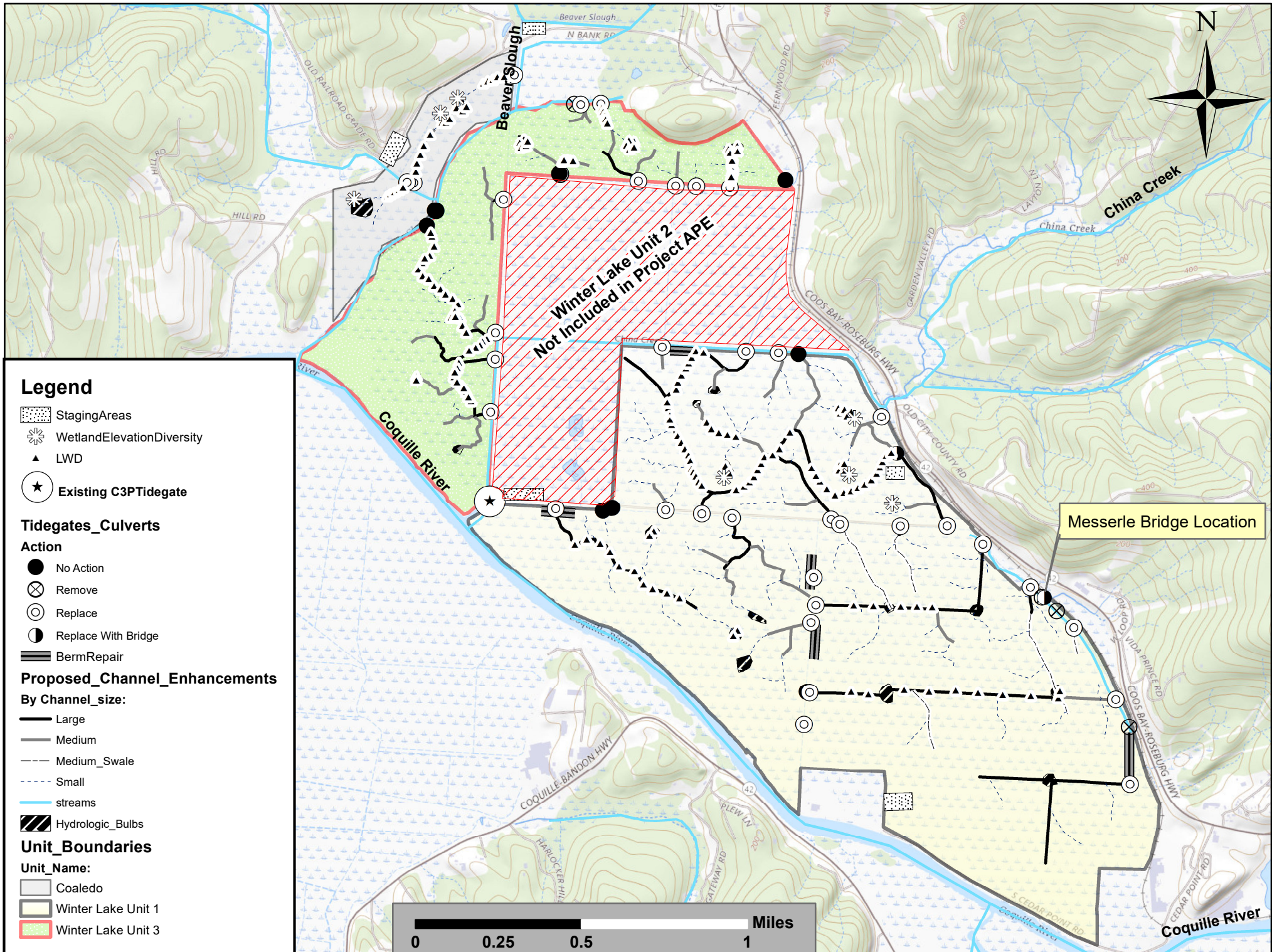


Figure 25. c. Large Woody Debris Map

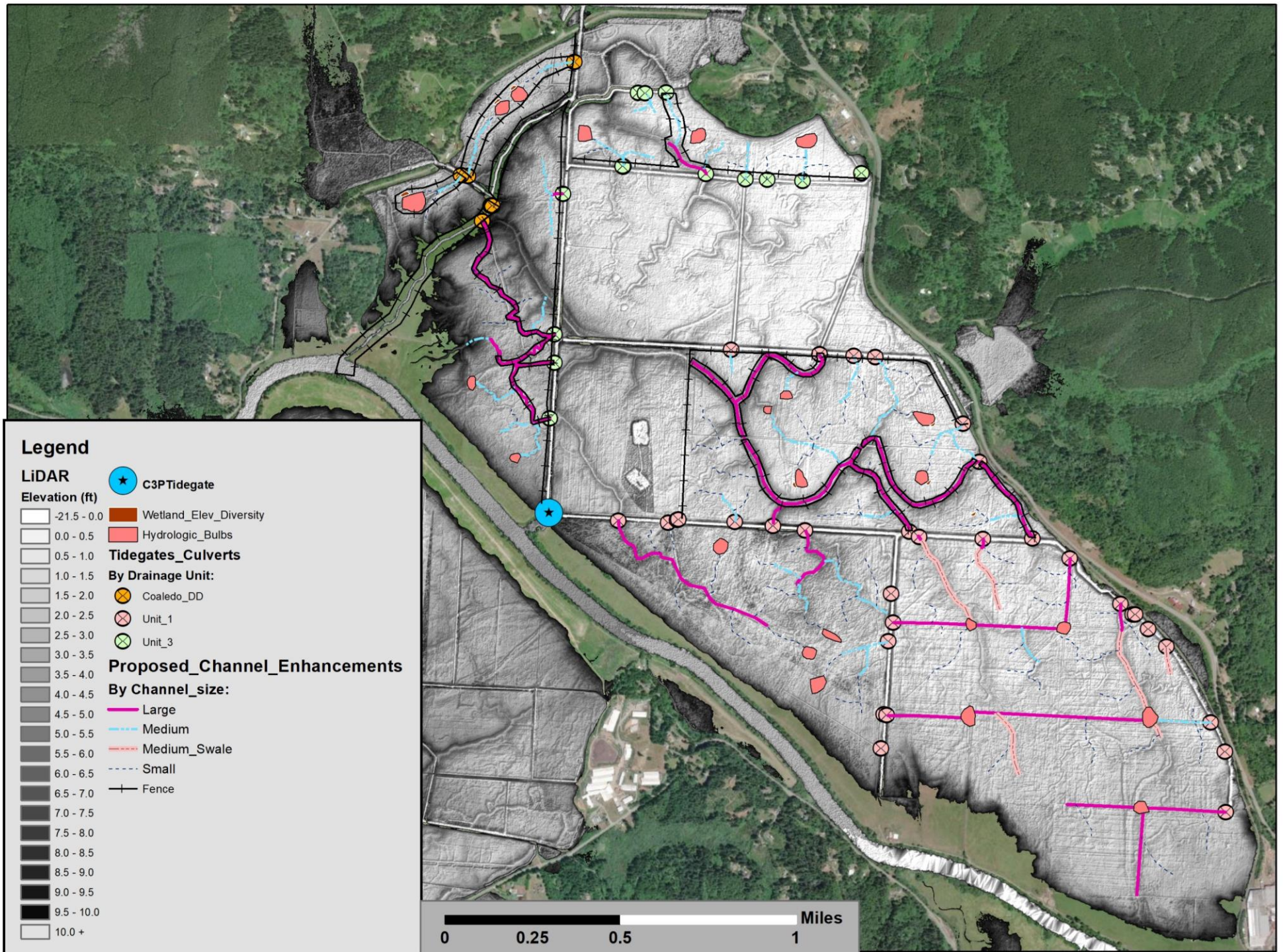
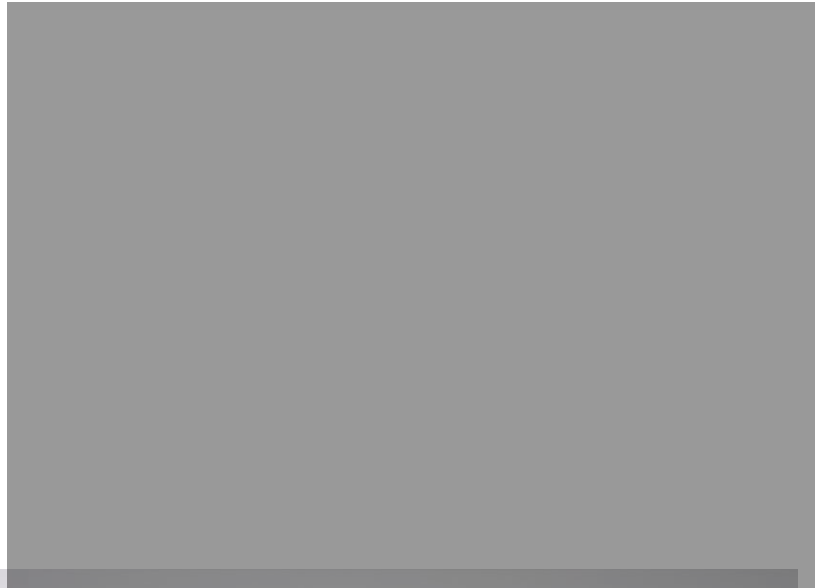


Figure 26. LiDAR Hillshade Imagery with proposed channel network



**Figure 27. Photos of existing shallow swale channels**



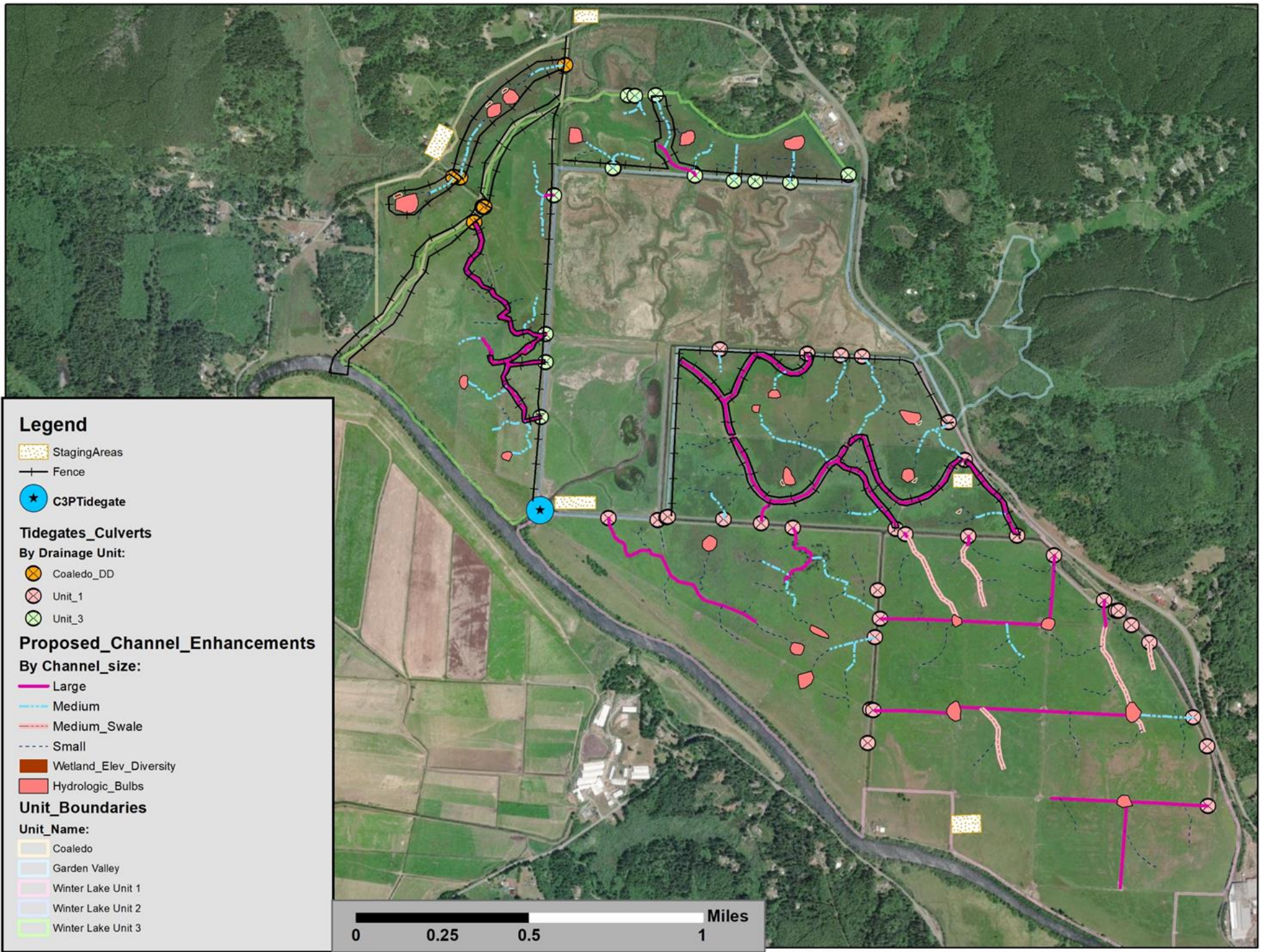


Figure 28. Map of Equipment Staging Areas

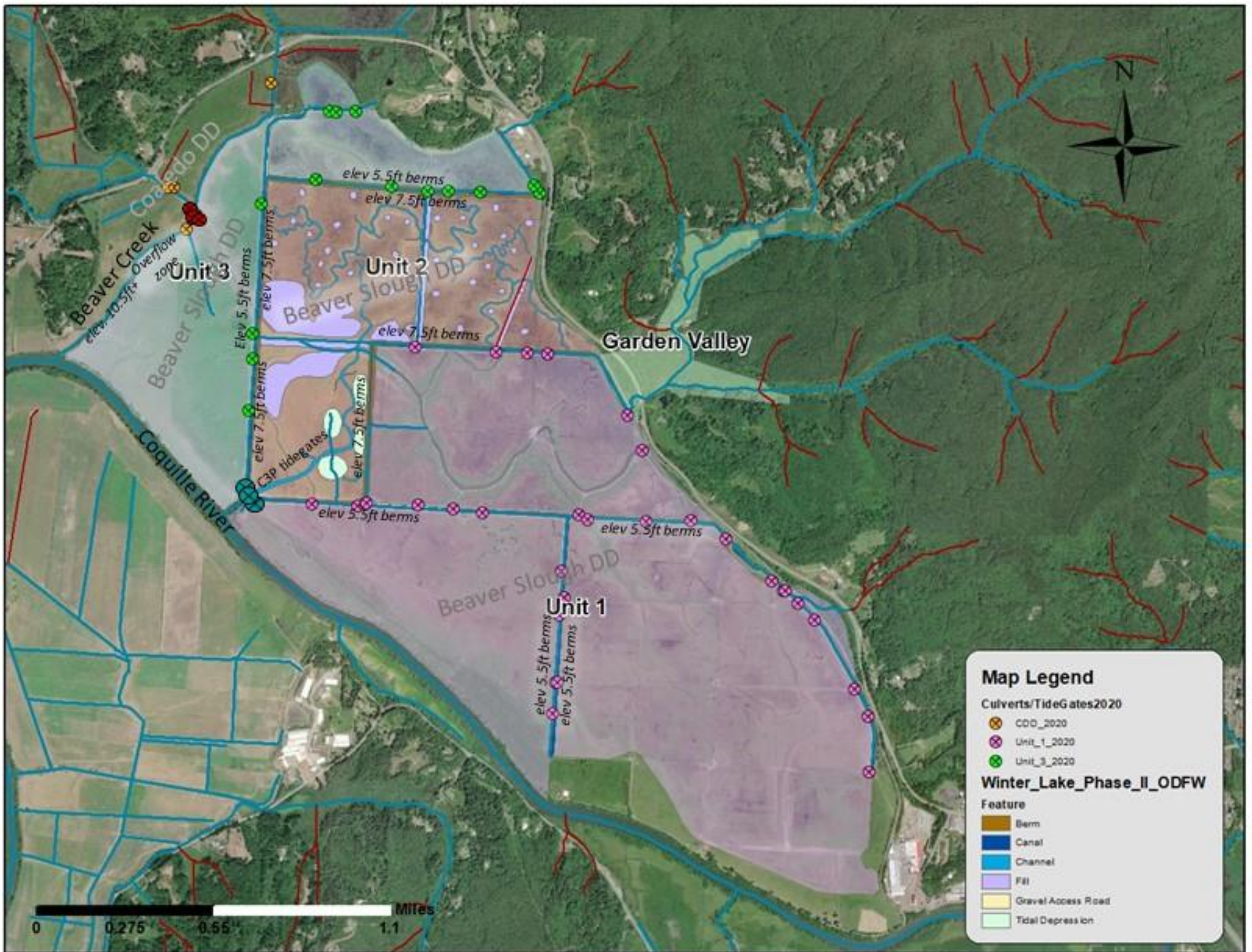


Figure 29. Berm Map

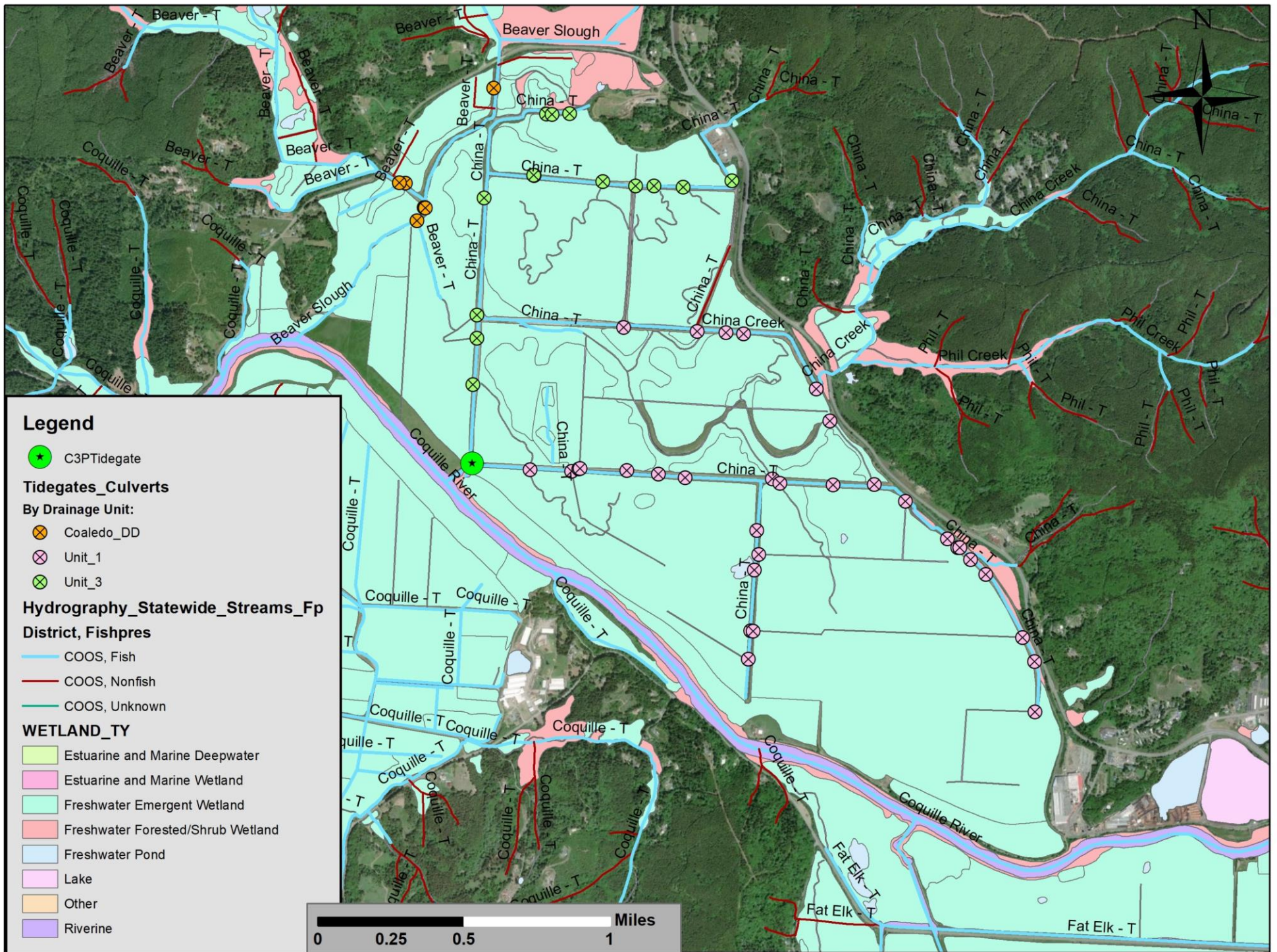
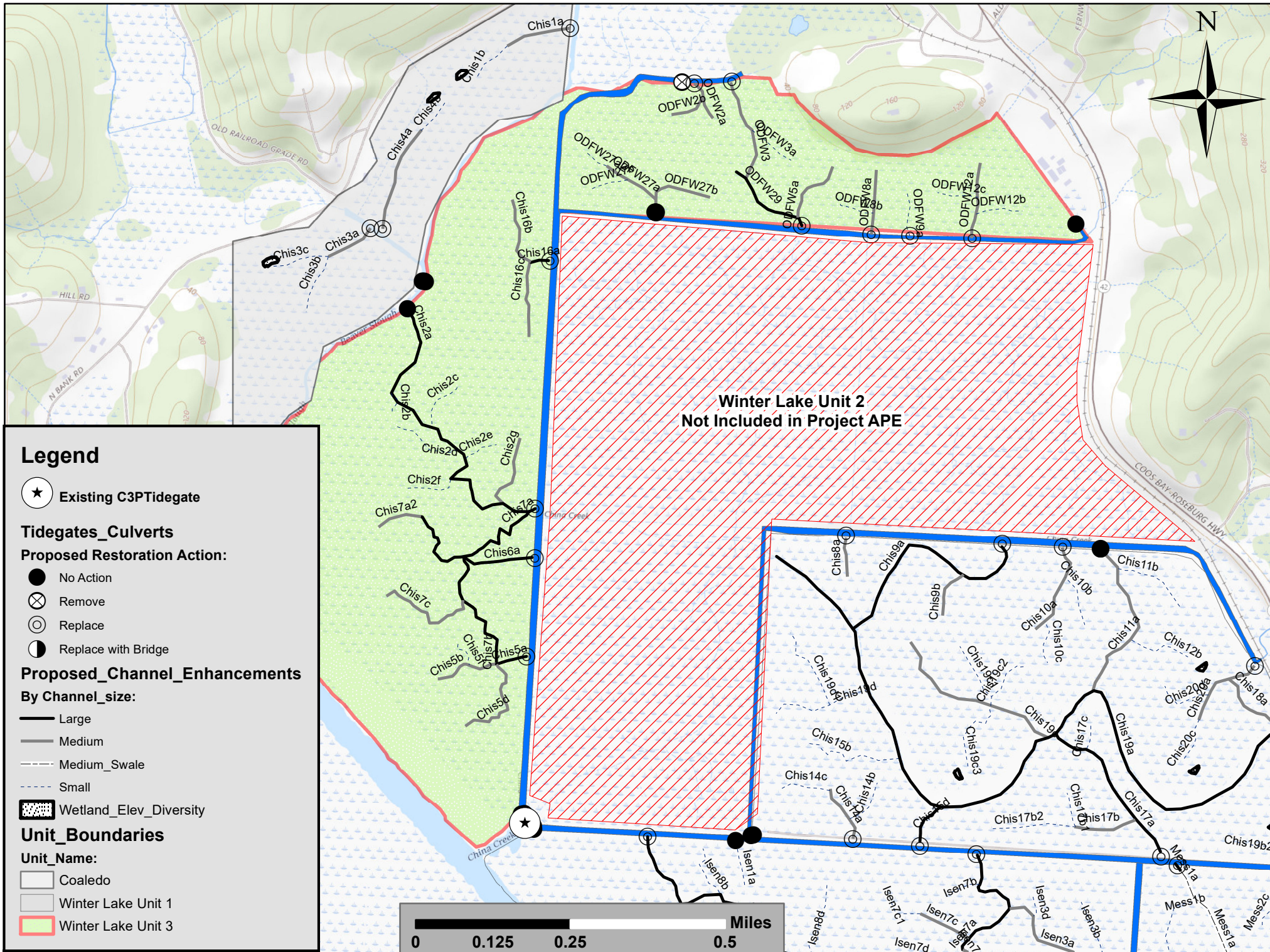


Figure 30. Wetlands Map



**Legend**

★ Existing C3PTidegate

**Tidegates\_Culverts**

**Proposed Restoration Action:**

- No Action
- ⊗ Remove
- ⊙ Replace
- ◐ Replace with Bridge

**Proposed\_Channel\_Enhancements**

**By Channel\_size:**

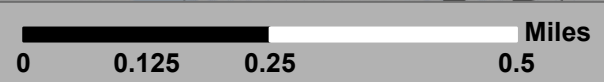
- Large
- Medium
- - - Medium\_Swale
- - - Small

▨ Wetland\_Elev\_Diversity

**Unit\_Boundaries**

**Unit\_Name:**

- Coaledo
- Winter Lake Unit 1
- Winter Lake Unit 3



**Winter Lake Unit 2  
Not Included in Project APE**

China Creek

COOS BAY-ROSEBURG HWY

China Creek

Mess Creek

Mess Creek

