N 4th St, Dayton, WA 99328 to 100-112 Vernon Ln, Dayton, WA 99328

Drive 4.0 miles, 7 min

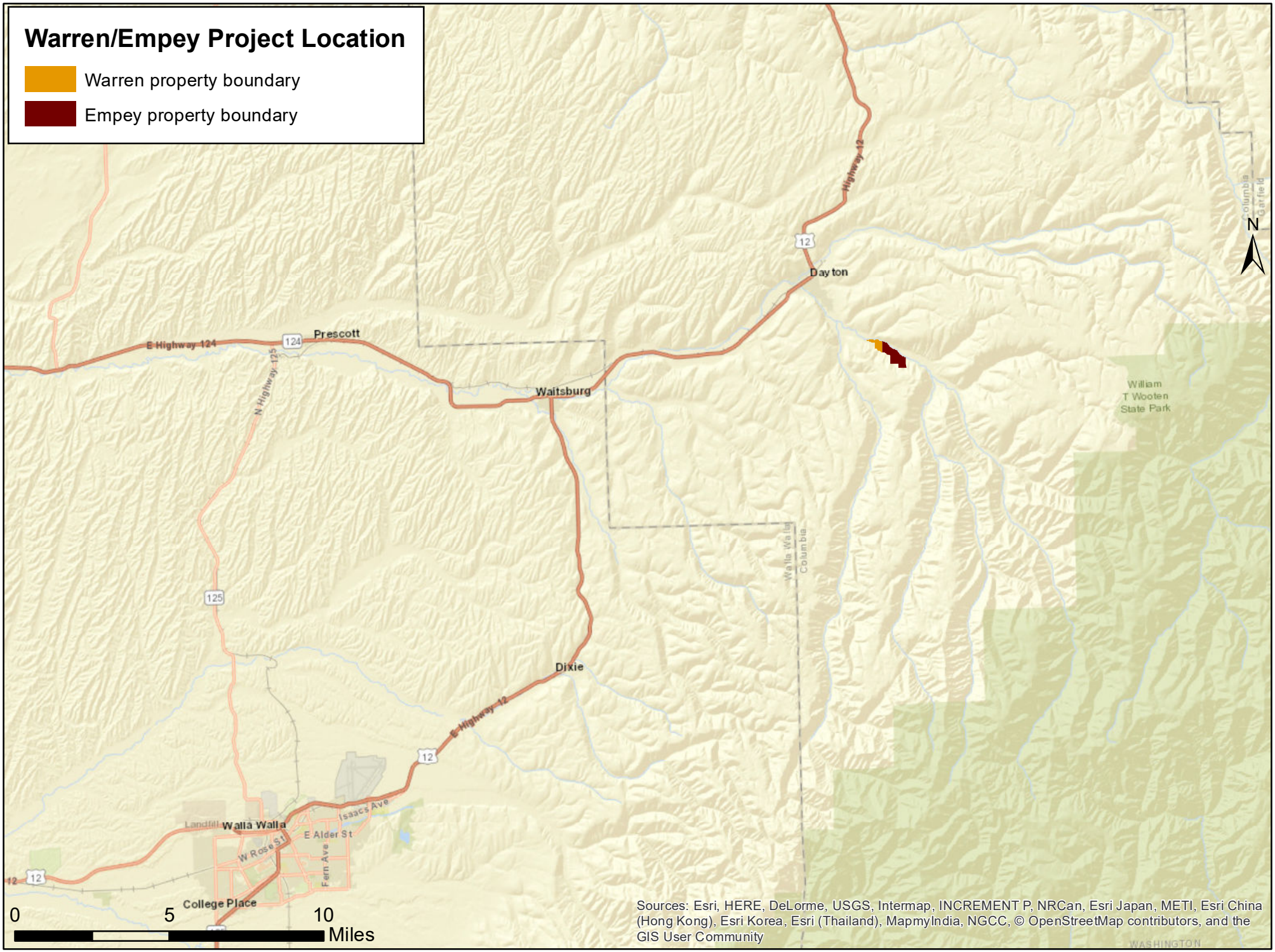
Imagery ©2024 Landsat / Copernicus, Maxar Technologies, USDA/FPAC/GEO, Map data ©2024 Google 2000 ft

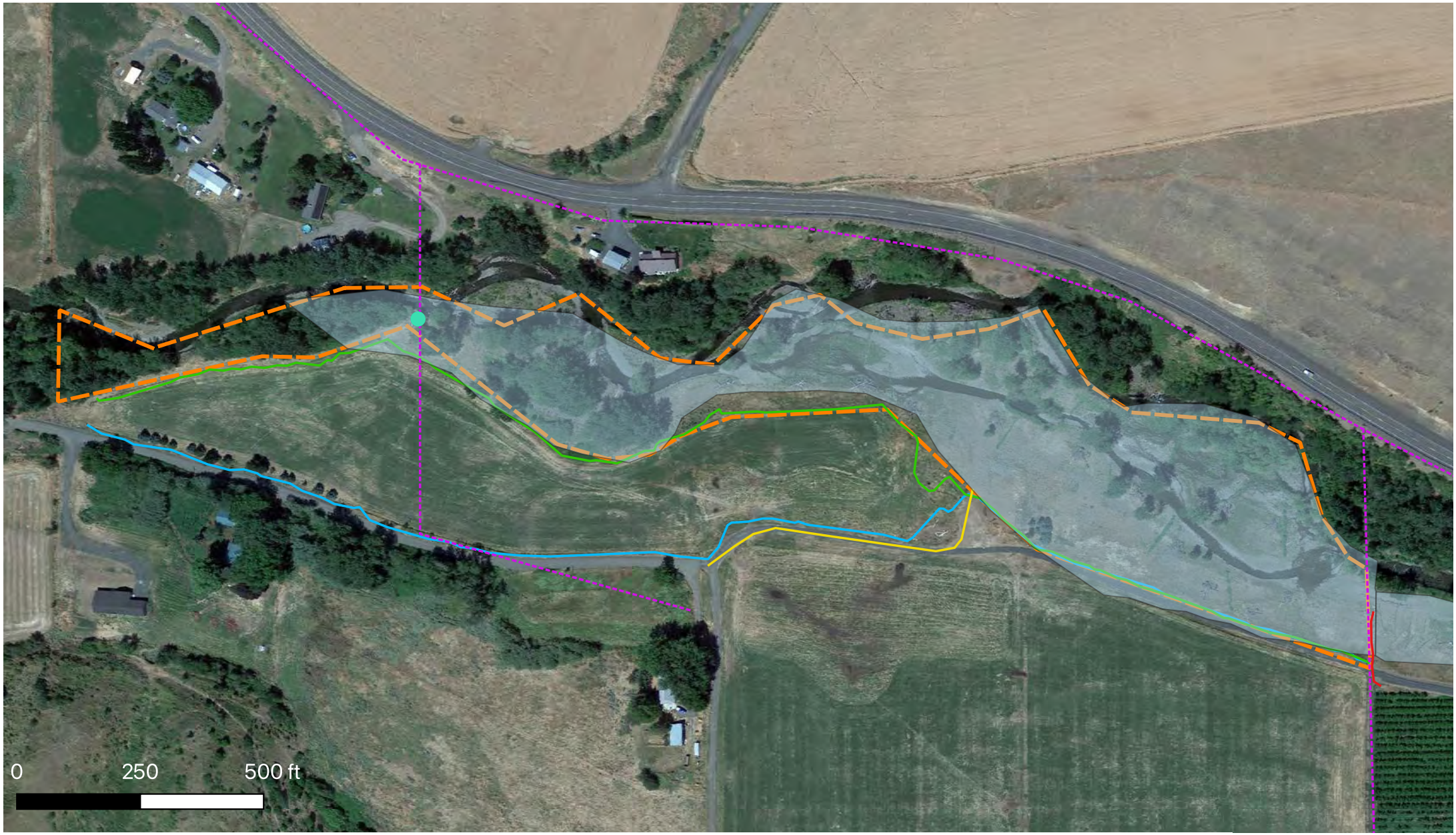
N 4th St
Dayton, WA 99328

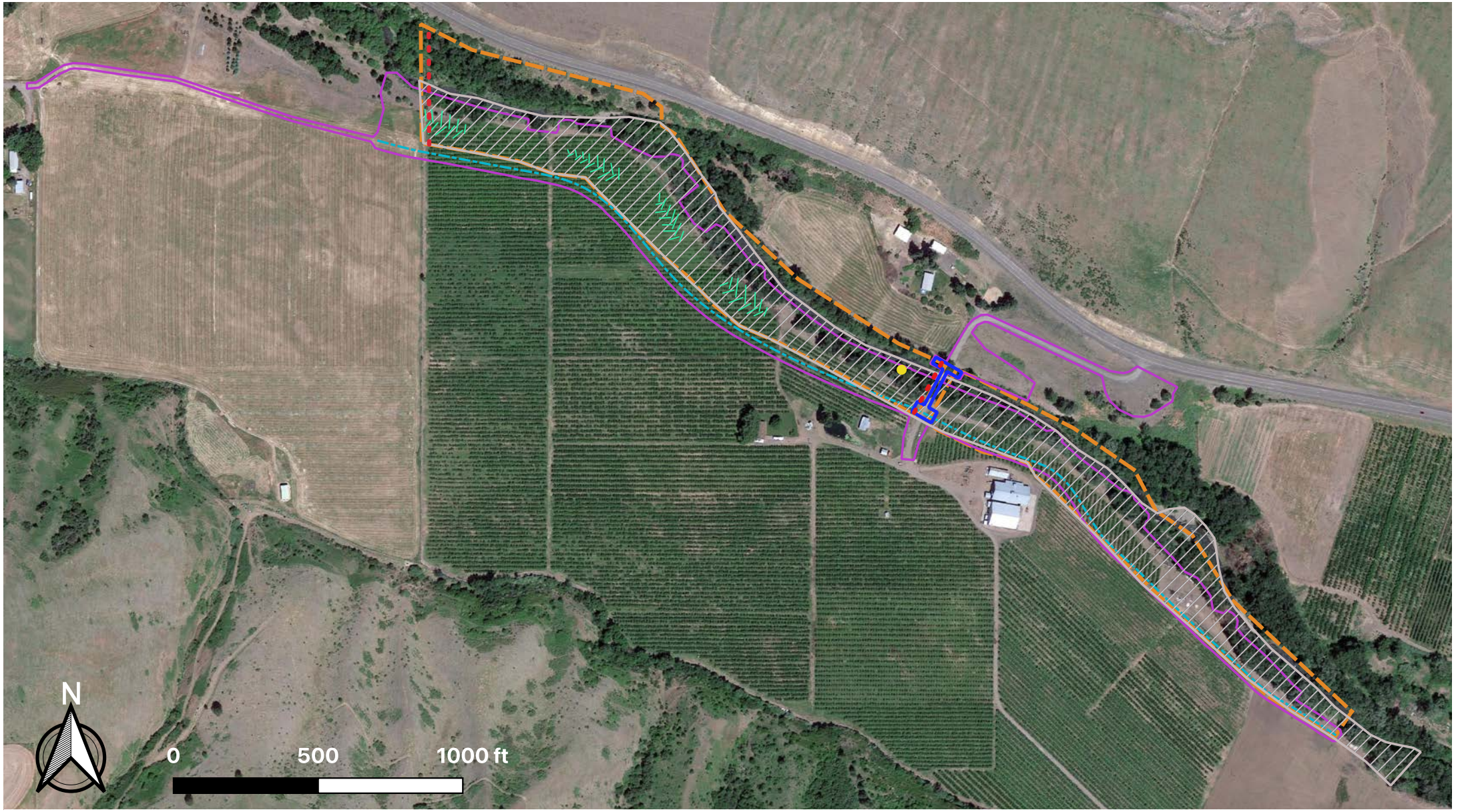
1. Head southeast on N 4th St toward E Main St — 1.5 mi
2. Continue onto N Touchet Rd — 2.3 mi
3. Turn right onto Vernon Ln — 0.2 mi

Destination will be on the right

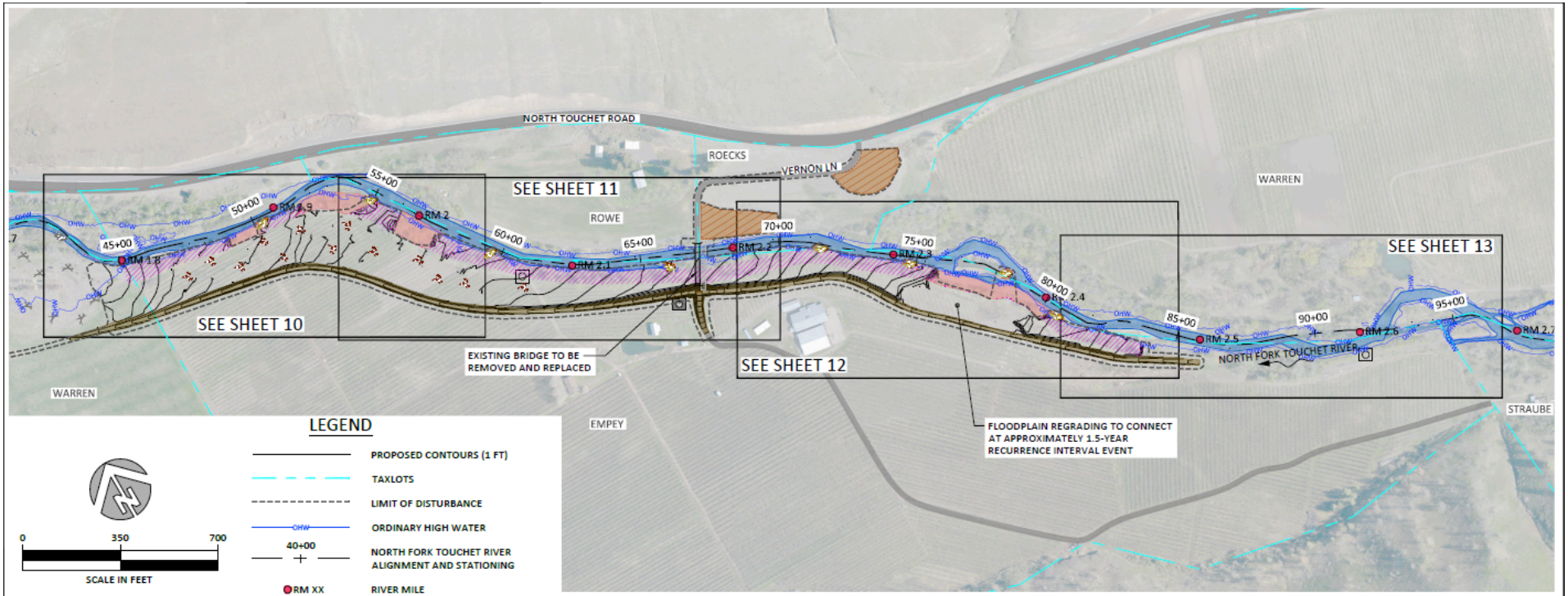
100-112 Vernon Ln
Dayton, WA 99328


Warren/Empey Project Location
Warren property boundary
Empey property boundary
Dayton
Prescott
Waitsburg
Dixie
Walla Walla
College Place
William T Wooten State Park
E Highway 124
N Highway 125
E Highway 12
Highway 12
Isaacs Ave
E Alder St
W Rose St
Fern Ave
Landfill
Columbia
Garfield
Walla Walla
Columbia
N
0
5
10
Miles
Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community
WASHINGTON


0
250
500 ft
Point of diversion/pump location
Power line
Utilities
Reconnected Floodplain
Access right of way
Southern easement boundary fenceline
Baileysburg Road fenceline
Warren Orchards Easement boundary
N



Power Lines
Willow Baffles
Point of Diversion
Bridge
Floodplain
Setback Levee Centerline
Limit of Disturbance
Conservation Easement Boundary (21.65 acres)



PLAN VIEW

LEGEND

- PROPOSED CONTOURS (1 FT)
- TAXLOTS
- LIMIT OF DISTURBANCE
- ORDINARY HIGH WATER
- 40+00 NORTH FORK TOUCHET RIVER ALIGNMENT AND STATIONING
- RM XX RIVER MILE
- EXISTING LEVEE TO BE REMOVED
- EXISTING ACCESS ROAD
- EXISTING IRRIGATION PUMP, APPROX. LOCATION
- PROPOSED IRRIGATION PUMP APPROX. LOCATION (INSTALL AND DESIGN BY OTHERS)
- EXISTING LEVEE AREAS TO REMAIN
- PROPOSED SETBACK LEVEE
- PROPOSED REPLACEMENT BRIDGE
- PROPOSED BANK MARGIN LARGE WOOD STRUCTURE, SEE DETAIL 1/SHEET 23
- PROPOSED APEX LARGE WOOD STRUCTURE, SEE DETAIL 3/SHEET 24
- PROPOSED HIGH-FLOW LARGE WOOD STRUCTURE, SEE DETAIL 4/SHEET 24

0 350 700
SCALE IN FEET

NWS-2021-311
25 MARCH 2021
DRAWING 9 OF 36
46.2869, -117.9211

JOHN R. GAFFNEY
STATE OF WASHINGTON
51075
REGISTERED
PROFESSIONAL ENGINEER

NO.	BY	DATE	REVISION DESCRIPTION

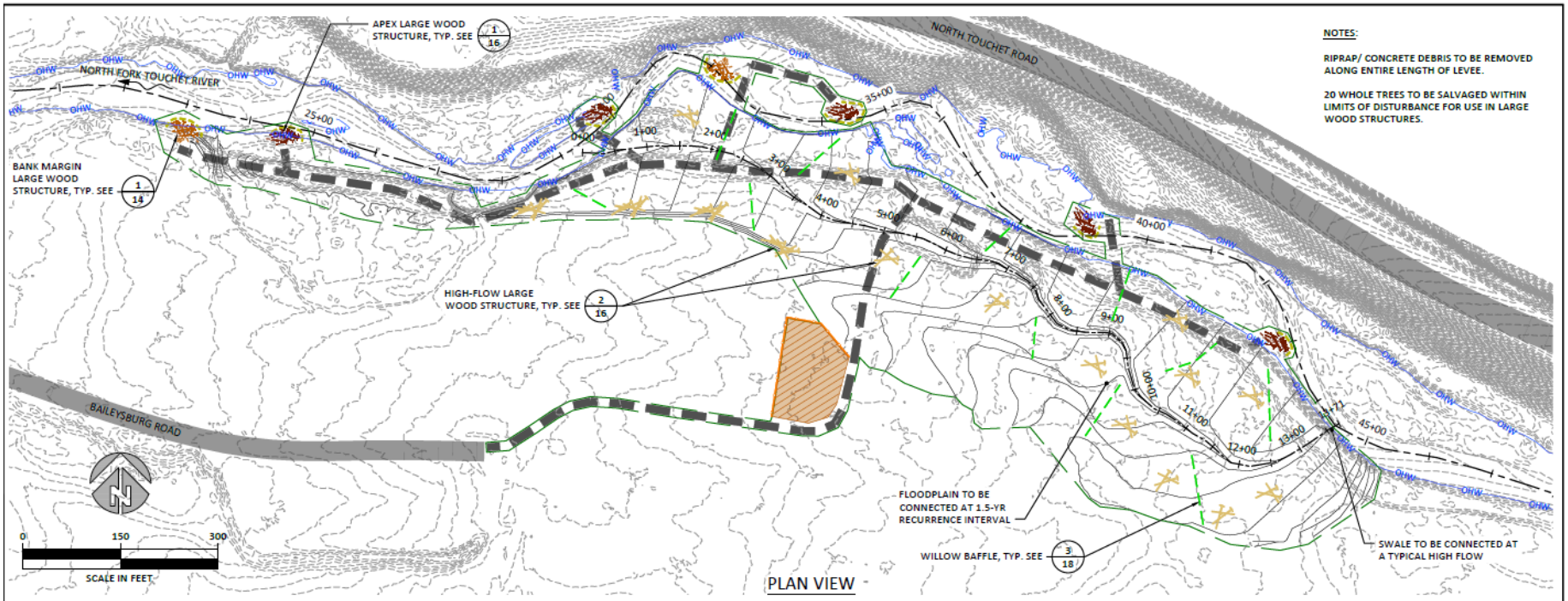
DRAWN	DESIGNED	CHECKED
SP, NS	P. BENCHETLER	E. ALCOTT
APPROVED	DATE	PROJECT
J. GAFFNEY	2/19/21	16-02-37

UMATILLA FISHERIES
NORTH FORK TOUCHET RIVER MILE 1.7-2.6
FINAL DESIGN

Interfluve
301 Portway Avenue, Suite 101
Hood River, OR 97031
541.386.9003
www.interfluve.com

PROPOSED CONDITIONS OVERVIEW

SHEET 9 OF 36

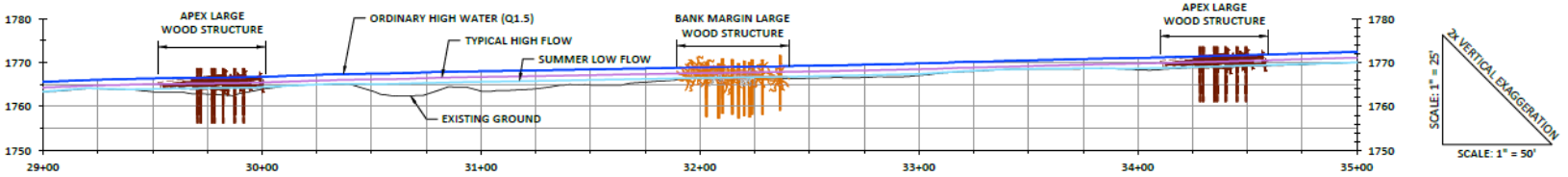


PLAN VIEW

NOTES:

RIPRAP/ CONCRETE DEBRIS TO BE REMOVED ALONG ENTIRE LENGTH OF LEVEE.

20 WHOLE TREES TO BE SALVAGED WITHIN LIMITS OF DISTURBANCE FOR USE IN LARGE WOOD STRUCTURES.



PROFILE - STA 29+00 TO 35+00

LEGEND

- EXISTING CONTOURS (1 FT)
- PROPOSED CONTOURS (1 FT)
- OHW — ORDINARY HIGH WATER
- 40+00 — NORTH FORK TOUCHET RIVER ALIGNMENT AND STATIONING
- 5+00 — PROPOSED SWALE ALIGNMENT AND STATIONING
- LIMITS OF DISTURBANCE
- EXISTING ACCESS ROAD
- TEMPORARY ACCESS ROUTE
- TEMPORARY STAGING AREA
- STRAW WATTLES, SEE DETAIL 2, SHEET 5
- TEMPORARY COFFERDAM, SEE DETAIL 1 SHEET 5
- WILLOW BAFFLE, SEE DETAIL 3, SHEET 18

NO.	BY	DATE	REVISION DESCRIPTION

NS DRAWN	EA, JG, PB DESIGNED	JG CHECKED
JG APPROVED	MAY 2020 DATE	160237 PROJECT

UMATILLA FISHERIES
NORTH FORK TOUCHET RIVER MILE 1.3 - 2.0
100% DESIGN

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PROPOSED CONDITIONS OVERVIEW

SHEET 8 OF 26

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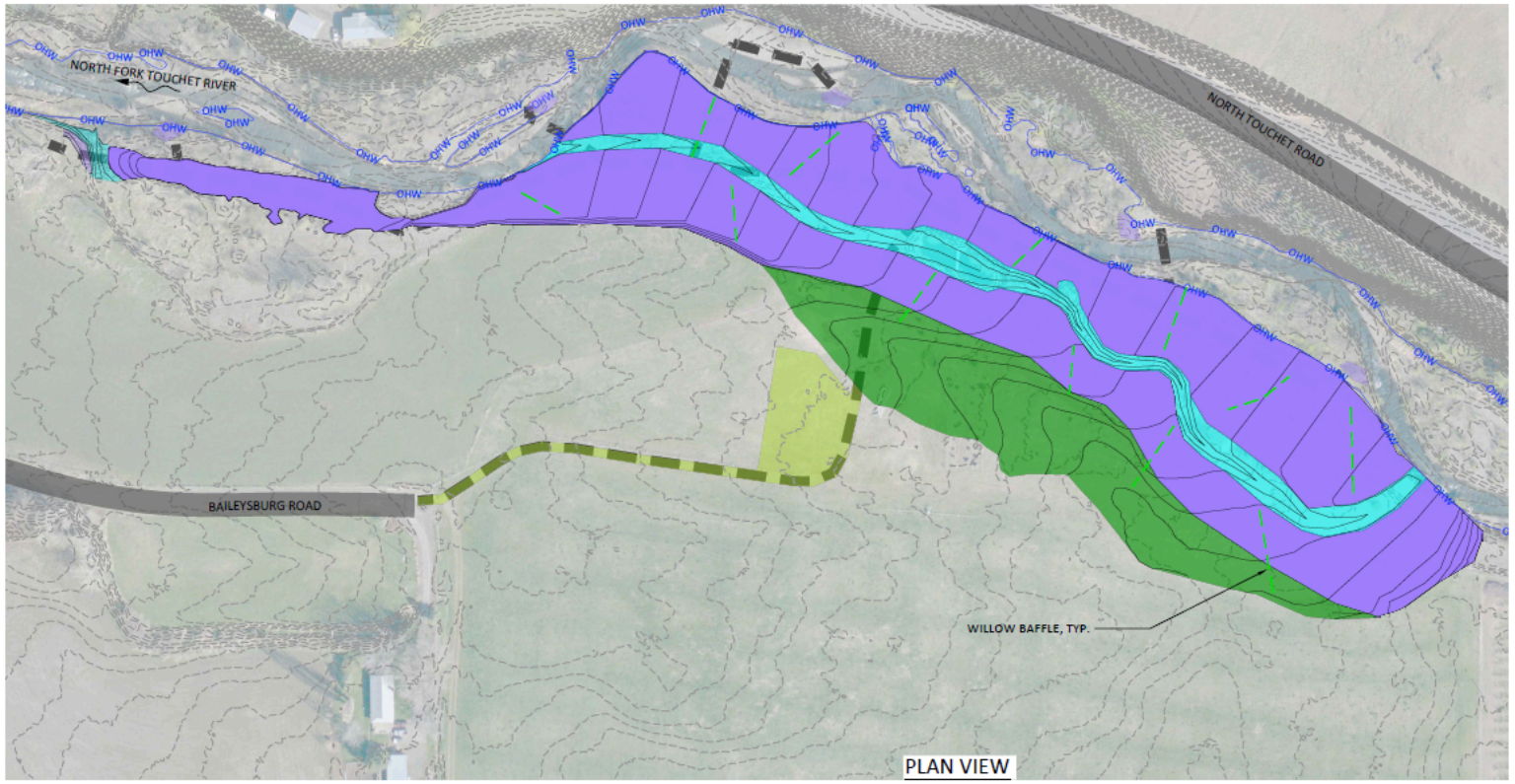
STATE OF WASHINGTON
51075
REGISTERED
PROFESSIONAL ENGINEER
4-21-20



PLAN VIEW

0 150 300

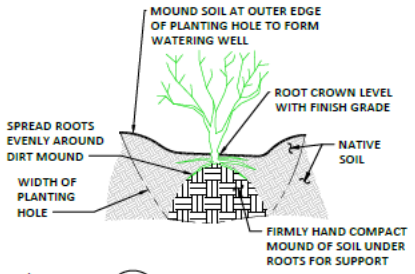
SCALE IN FEET

NOTE:

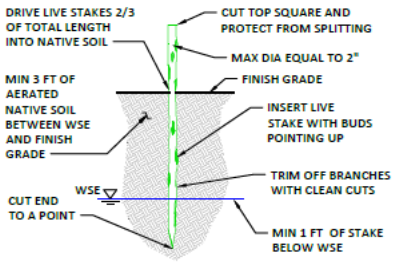
SEE SHEET 19 FOR PLANTING SCHEMATIC AND PLANT LIST.

LEGEND

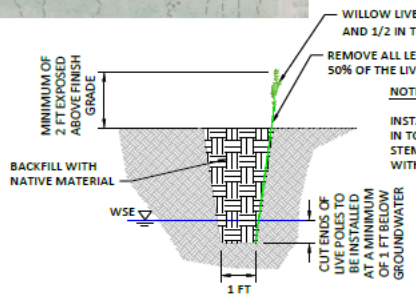
- EXISTING CONTOURS (1 FT)
- PROPOSED CONTOURS (1 FT)
- OHW — ORDINARY HIGH WATER
- EXISTING ACCESS ROAD
- TEMPORARY ACCESS ROUTE
- REVEGETATION ZONE 1 (0.9 ACRES)
- REVEGETATION ZONE 2 (5.5 ACRES)
- REVEGETATION ZONE 3 (1.8 ACRES)
- UPLAND SEED AND MULCH AREA (0.5 ACRES)
- WILLOW BAFFLE



1/18 BARE ROOT DETAIL
NOT TO SCALE



2/18 LIVE CUTTING DETAIL
NOT TO SCALE



NOTE:

INSTALL LIVE POLES WITH CUT ENDS IN TOE OF TRENCH AT A MIN. DENSITY OF 10 STEMS PER LINEAR FOOT. MIN. OF 5 STEMS WITH LEAVES REMOVED PER LINEAL FOOT.

3/18 WILLOW BAFFLE DETAIL
NOT TO SCALE

JOHN R. GAFFNEY
STATE OF WASHINGTON
51075
REGISTERED
PROFESSIONAL ENGINEER
4-21-20

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NS DRAWN	EA, JG, PB DESIGNED	JG CHECKED
JG APPROVED	MAY 2020 DATE	160237 PROJECT

UMATILLA FISHERIES
NORTH FORK TOUCHET RIVER MILE 1.3 - 2.0
100% DESIGN

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REVEGETATION PLAN AND DETAILS

SHEET 18 OF 26

PLANT LIST

ZONE 1 (0.9 acres)

COMMON NAME	SCIENTIFIC NAME	TYPE	SPACING (FT O.C.)	QUANTITY
Black cottonwood	*Populus trichocarpa*	Live pole	6	500
Black cottonwood	*Populus trichocarpa*	Container plant	6	500
Coyote willow	*Salix exigua exigua*	Live pole	6	600

ZONE 3 (5.5 acres)

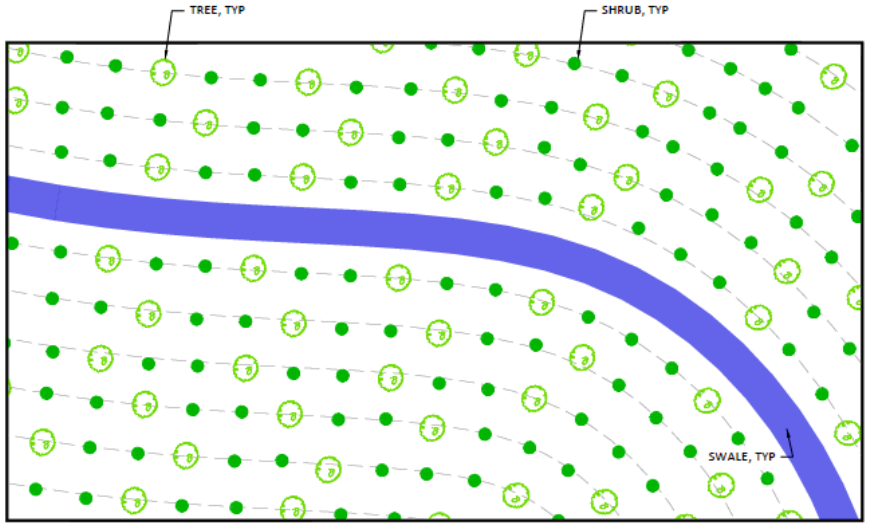
COMMON NAME	SCIENTIFIC NAME	TYPE	SPACING (FT O.C.)	QUANTITY
Black cottonwood	*Populus trichocarpa*	Live pole	4	2500
Sitka alder	*Alnus sinuata*	Container plant	4	1000
Redosier dogwood	*Cornus sericea*	Container plant	4	2500
Black hawthorn	*Crataegus douglasii*	Container plant	4	3000
Mallow ninebark	*Physocarpus malvaceous*	Container plant	4	1000
Coyote willow	*Salix exigua exigua*	Live pole	4	4000
Thimbleberry	*Rubus parviflorus*	Container plant	4	1000

ZONE 4 (1.8 acres)

COMMON NAME	SCIENTIFIC NAME	TYPE	SPACING (FT O.C.)	QUANTITY
Ponderosa pine	*Pinus ponderosa*	Container plant	10	790
Common snowberry	*Symphoricarpos albus*	Bare root	4	2060
Nootka rose	*Rosa nutkana*	Bare root	4	2060

NOTE:

LIVE WILLOW STAKES ASSOCIATED WITH WILLOW BAFFLES AND LARGE WOOD STRUCTURES ARE NOT INCLUDED IN THESE QUANTITIES.



NOTES:

PLANT PLACEMENT

CONTRACTOR SHALL PLANT PLANTS AT THE DENSITIES SHOWN AND ALTERNATE SPECIES ALONG "MEANDERING ROWS" AS APPROVED BY THE ENGINEER. MEANDERING ROWS ARE DEFINED AS ROWS THAT PARALLEL THE SWALE ALIGNMENT WITHIN THE EXTENT OF THE REVEGETATION AREA. THE ENGINEER SHALL REVIEW A SAMPLE 1000 SQUARE FOOT PLANT ASSOCIATION LAYOUT TO BE FOLLOWED FOR THE REVEGETATION AREA. PLANT MATERIAL PLANTED IN INAPPROPRIATE PLACES SHALL BE SUBJECT TO REJECTION BY THEY ENGINEER DURING INSPECTIONS. INAPPROPRIATE PLACES ARE PLACES WHERE LOGS, COMPACTED SLASH GREATER THAN 10 INCHES IN DEPTH, ROCK OUTCROPS, COBBLE, GRAVEL, STANDING WATER, OR OTHER MEDIA PREVENT PLANTING TOOLS FROM MAKING AN ACCEPTABLE PLANTING HOLE. WHEN AN INAPPROPRIATE PLACE IS ENCOUNTERED, CONTRACTOR SHALL PLANT THE PLANT MATERIAL IN THE NEAREST APPROPRIATE LOCATION.

1/19 PLANTING SCHEMATIC
NOT TO SCALE

JOHN R. GAFFNEY
STATE OF WASHINGTON
51075
REGISTERED
PROFESSIONAL ENGINEER
4-21-20

NO.	BY	DATE	REVISION DESCRIPTION

NS	EA, JG, PB	JG
DRAWN	DESIGNED	CHECKED
JG	MAY 2020	160237
APPROVED	DATE	PROJECT

UMATILLA FISHERIES
NORTH FORK TOUCHET RIVER MILE 1.3 - 2.0
100% DESIGN

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REVEGETATION DETAILS

SHEET
19 OF 26