

Evans Bar DRAFT 60% Channel Design

September 23, 2026

Prepared by:

The Yurok Tribe
Fisheries/DCB

California Department
of Water Resources

California Department
of Fish & Wildlife

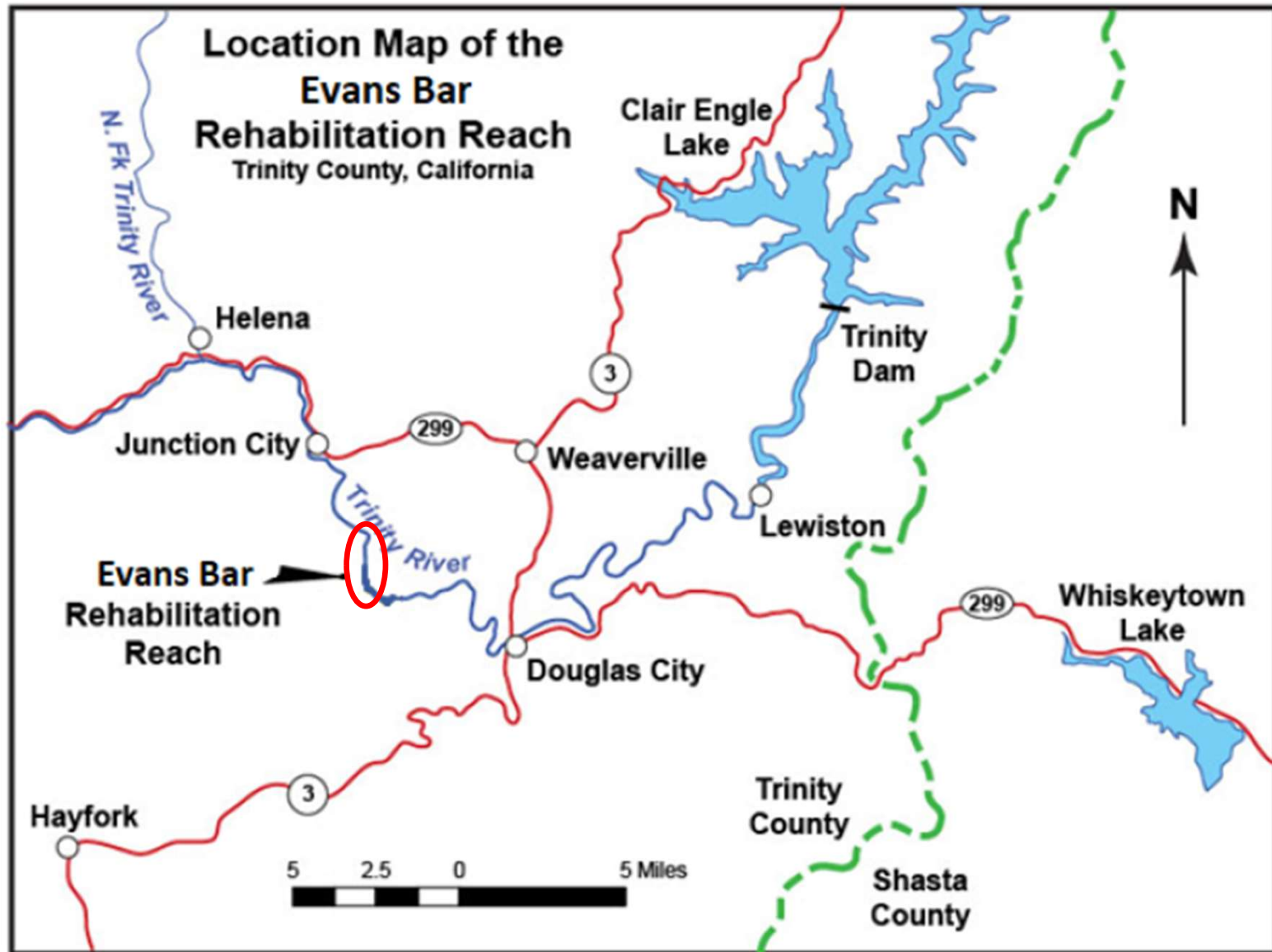


Prepared for:

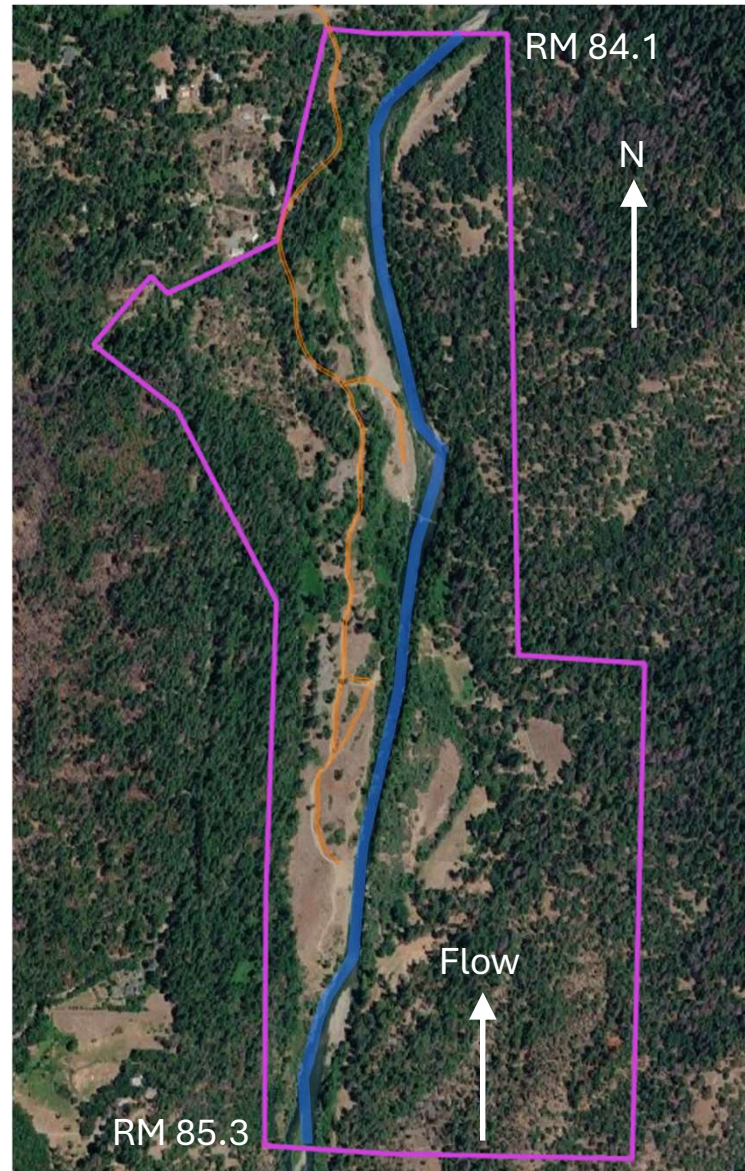
Trinity River Restoration Program
1313 S. Main St.
Weaverville, CA 96093



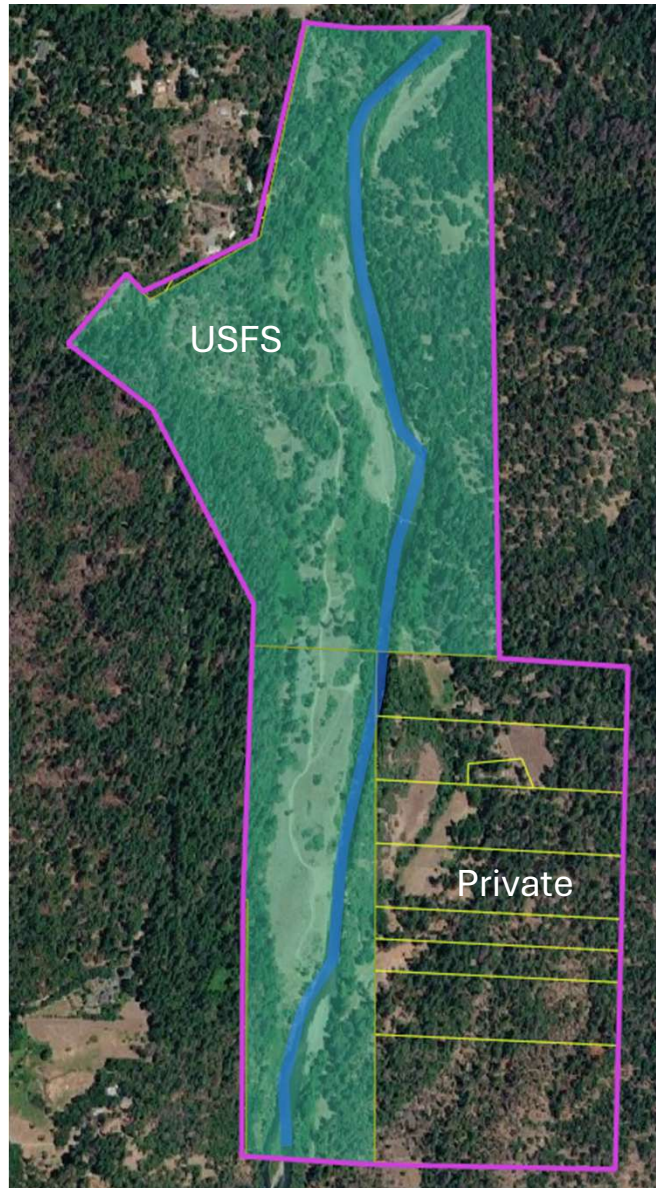
Project Location



Evans Bar Environmental Study Limit (ESL)



Ownership Within the ESL: USFS & Private (approximate)



Need for Restoration/ Rehabilitation

i.e. Existing Ecological Limitations

- Most of the channel is incised
 - Very limited floodplain inundation below 4,000 cfs.
 - Very little channel complexity
- Minimal salmonid habitat
 - Very little juvenile rearing
 - Minor amt. of spawning
 - Minor amt. of adult holding
- Non-native and invasive vegetation

Valley and Channel Cross Sections

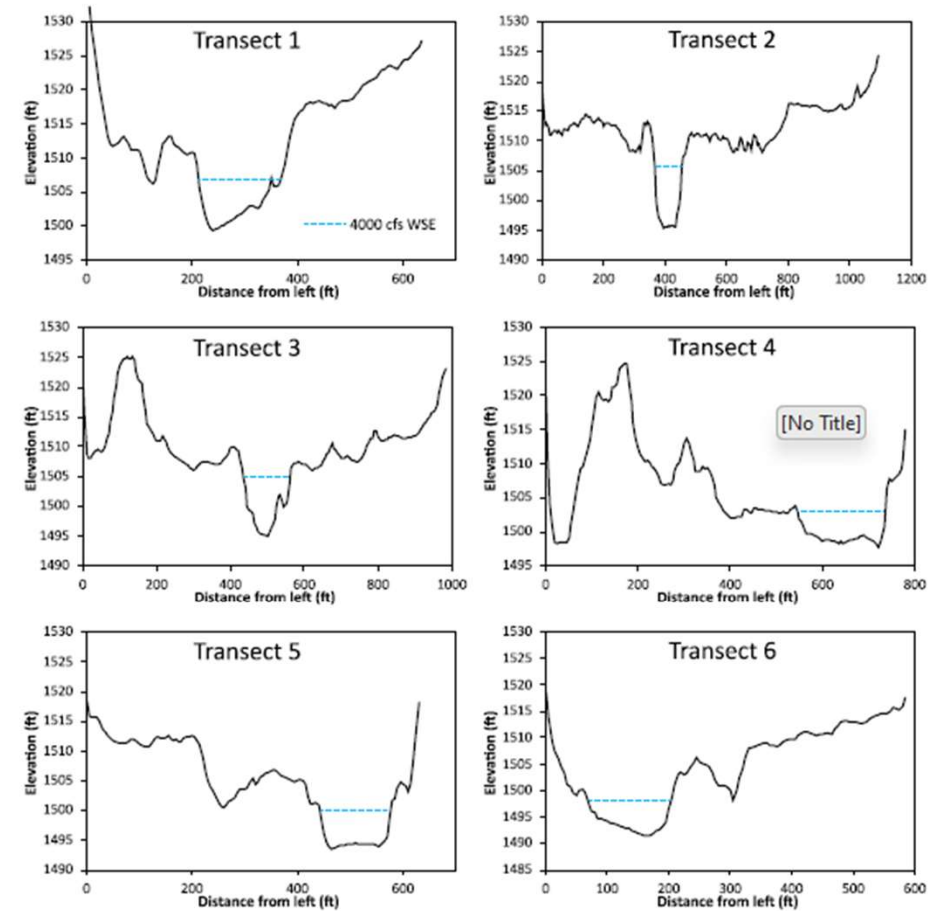
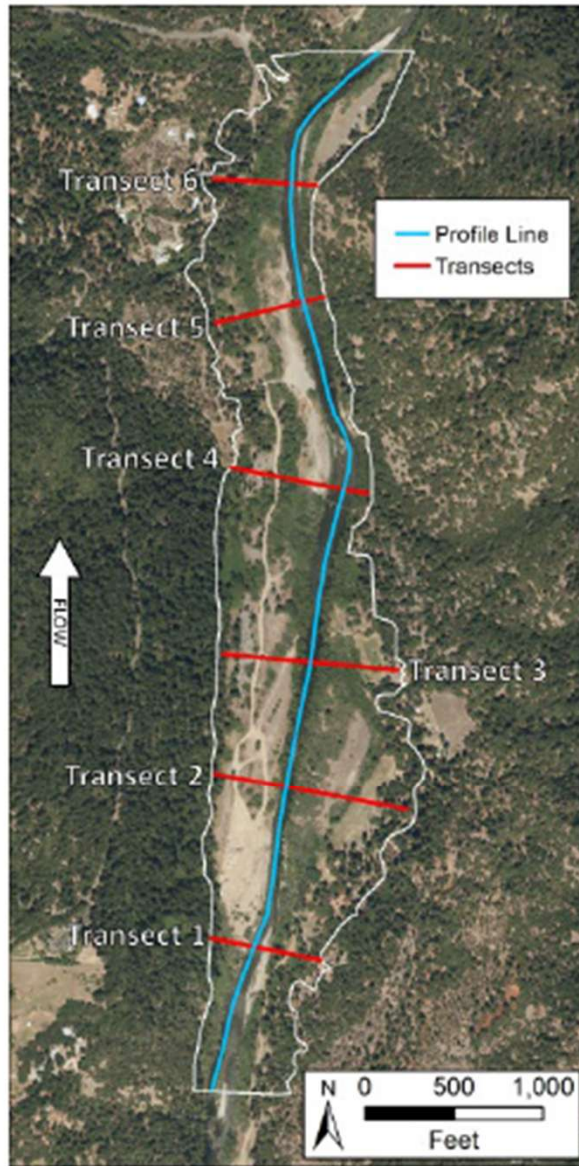
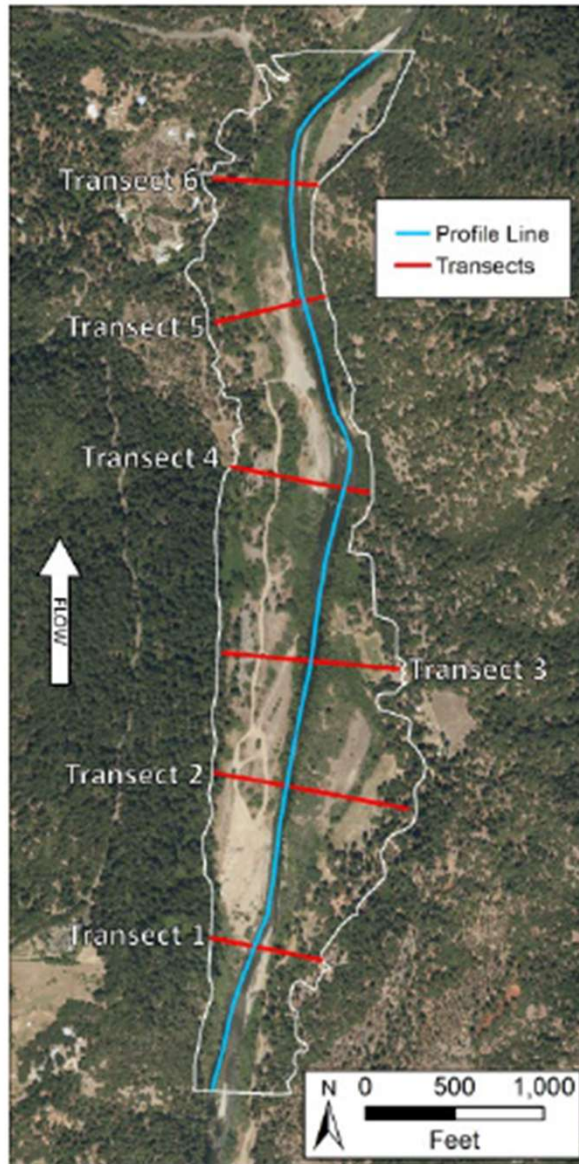
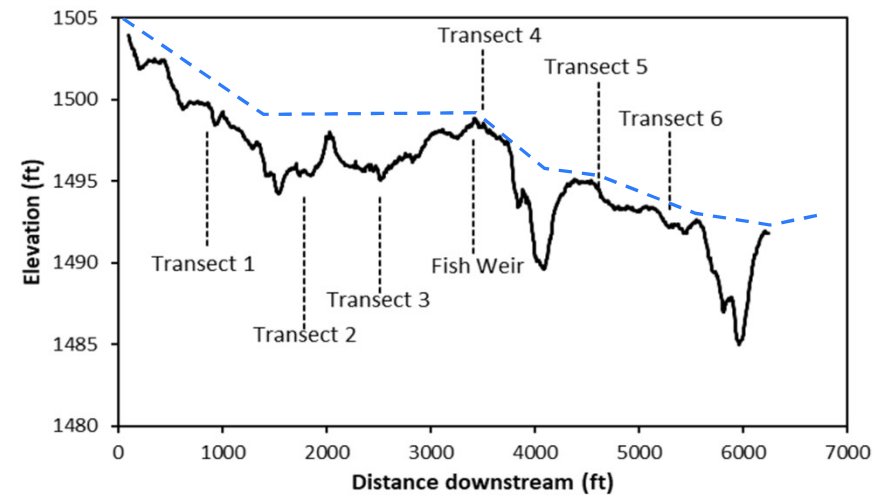


Figure 13: Topographic transects across river valley with 4,000 ft³/s water surface elevation shown. Data surveyed in 2016.

Valley and Channel



Thalweg Elevation Profile



Project Objectives

- Increase the amount of rearing habitat for juvenile salmonids over a range of discharges.
- Increase the extent and frequency of floodplain inundation.
- Promote the development of healthy, diverse riparian vegetation.
- Promote fluvial processes such as cut and fill alluviation.
- Increase the supply of large wood available to the river.
- Maintain existing adult holding habitat.

Upper Segment



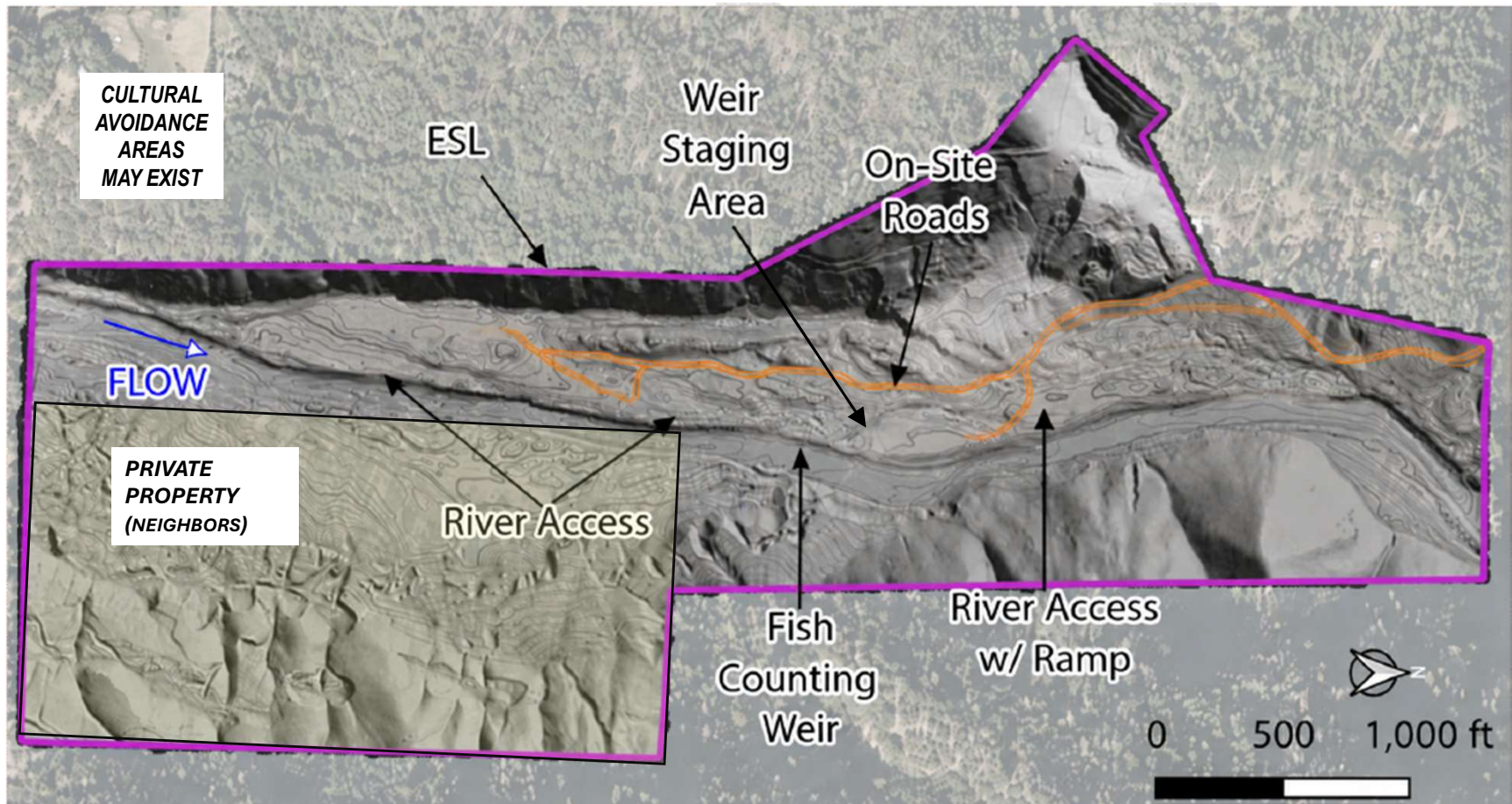
Lower Segment



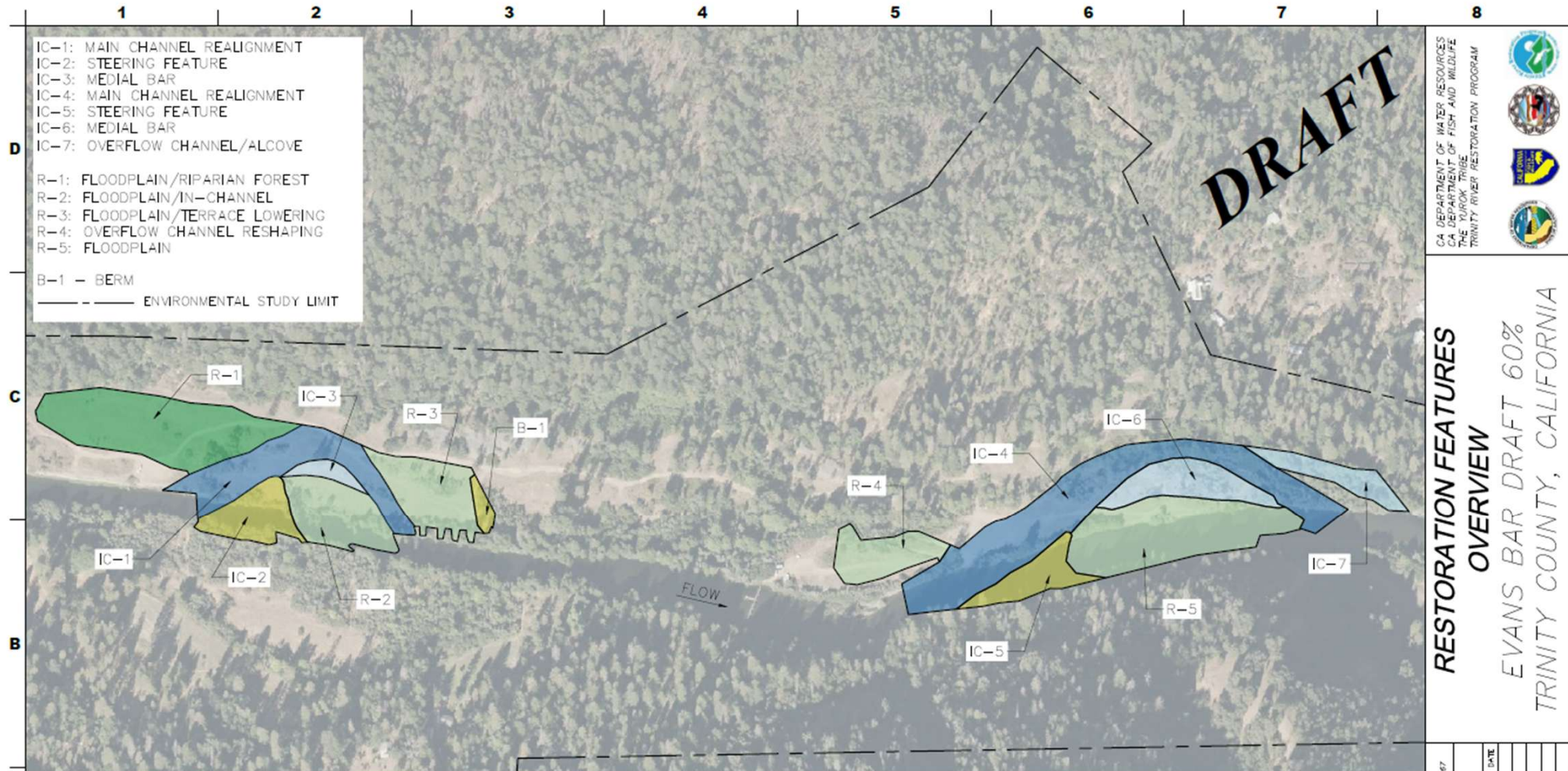
Key Project Constraints

- Maintain Evans Bar River Access
 - Main boat launch
 - Fish Counting Weir
 - Existing access locations used by neighboring landowners
 - Maintain drivable access to existing access
 - Maintain safe river crossing
- Maintain visual resources (tall trees) per Wild & Scenic and neighbors' requests
- Soldier Creek hole – adult salmonid holding –minimal disturbance
- Tailings & culturally significant areas on site –assessment TBD

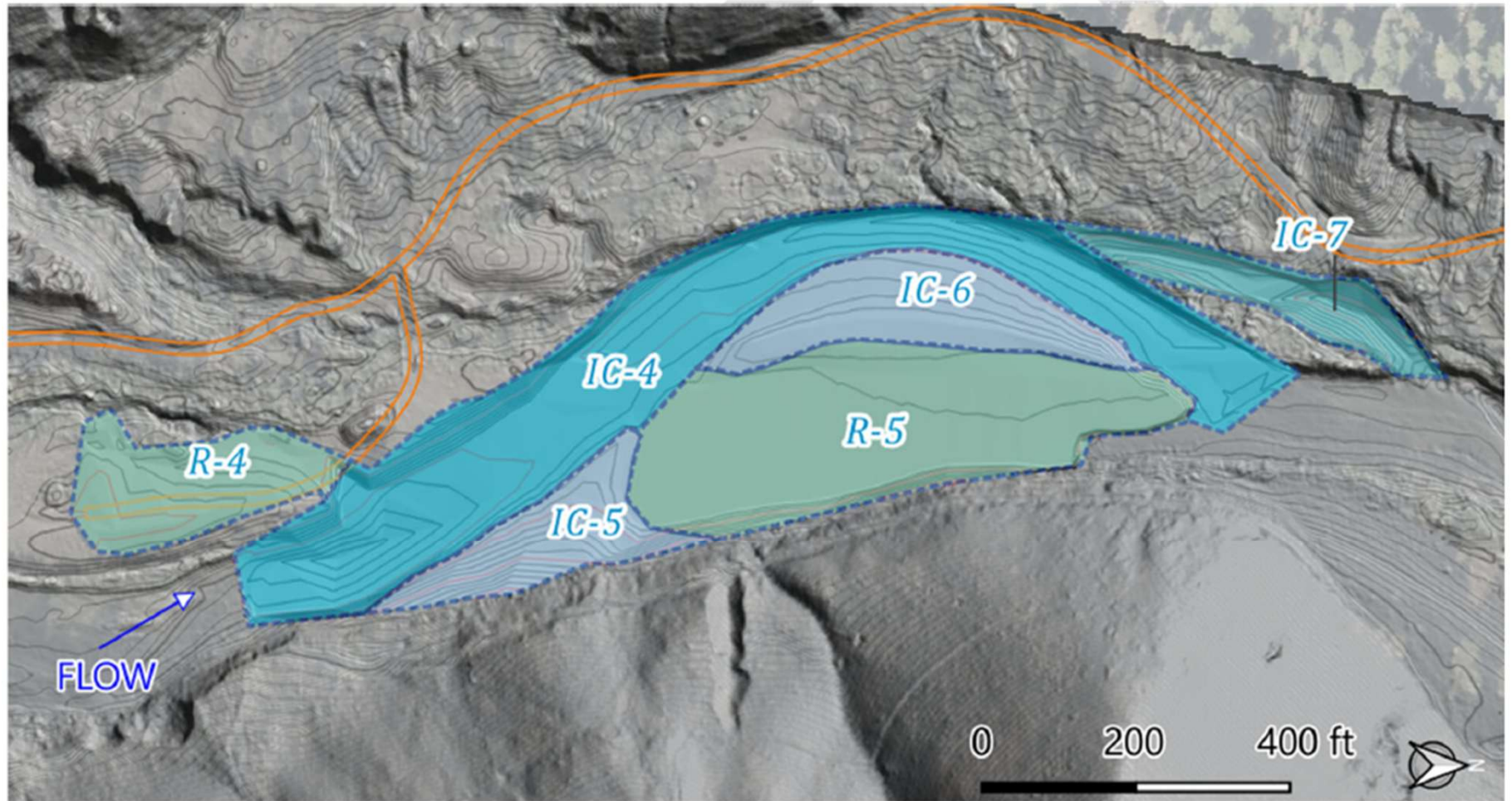
Site Layout and Existing Features



60% Design – Overview



Lower Segment Design Features



Considerations for Upper Segment Designs

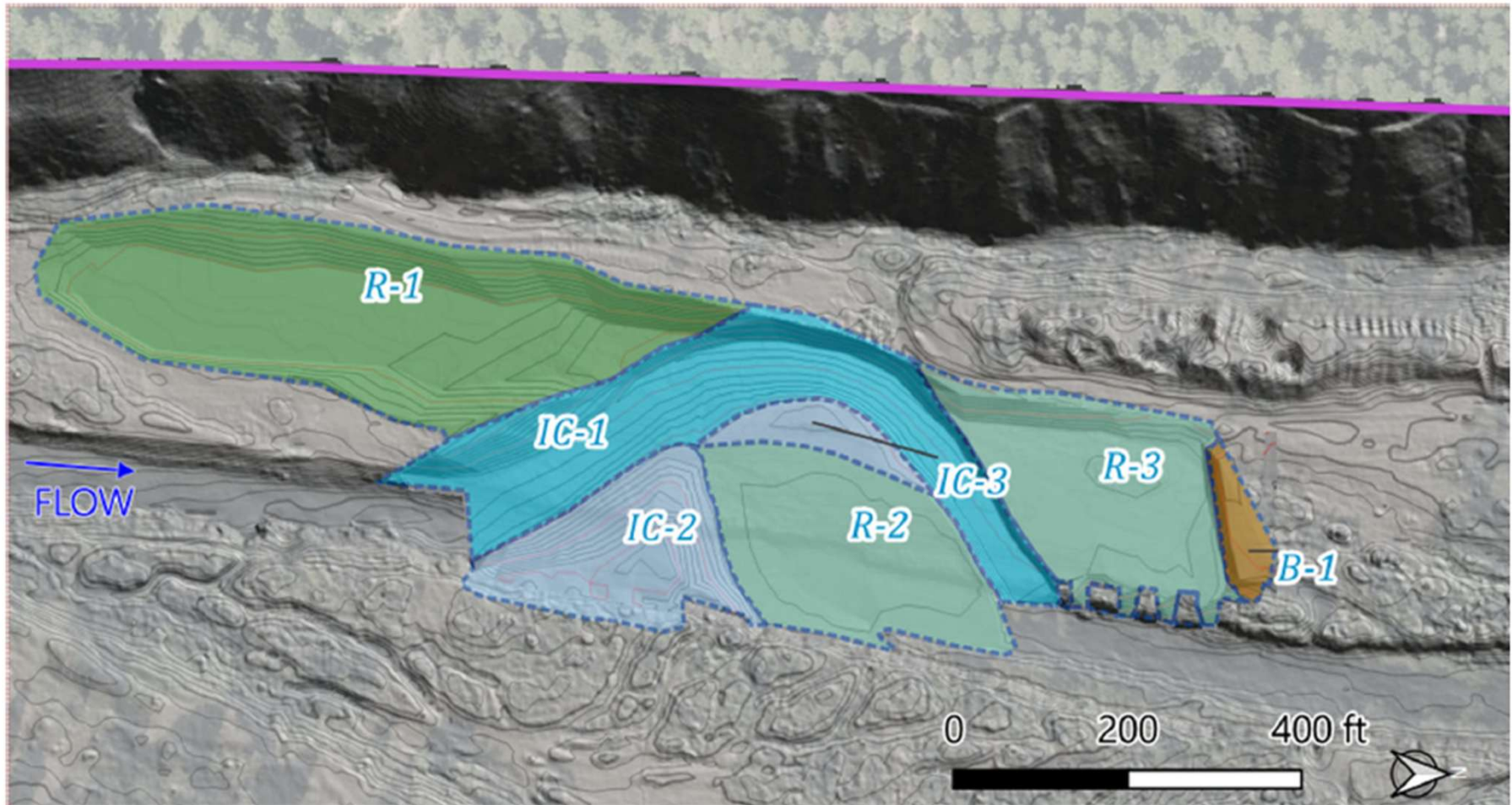
Concerns Received

- Safety
- Access
- Privacy

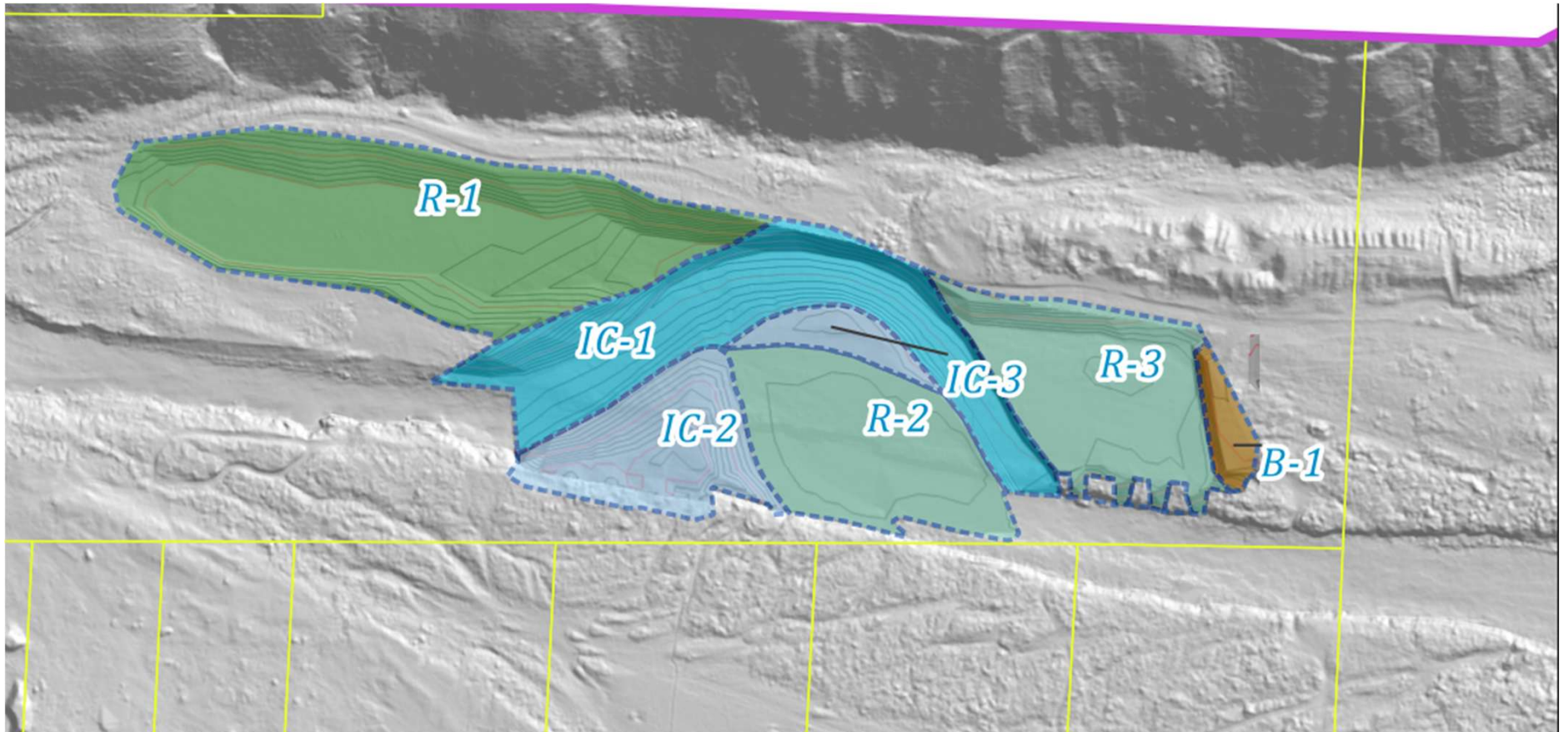
Approach

- Lower velocities through wider channel – slower and shallower
- Little to no wood placement on IC-2-; any wood be placed considering safety
- Maintain road access to existing river access locations;
- Keep river accesses open during construction to extent feasible
- Minimal to no work on east bank –
- Keep east-bank trees

Upper Segment Design Features

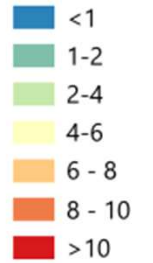


Upper Segment Design Features

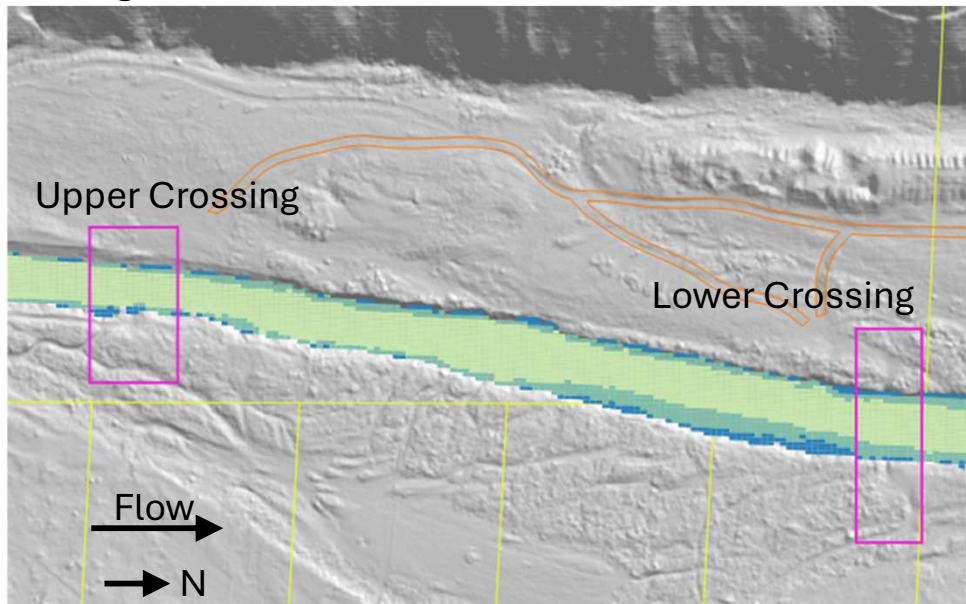


Velocity Comparison: 1,000 cfs

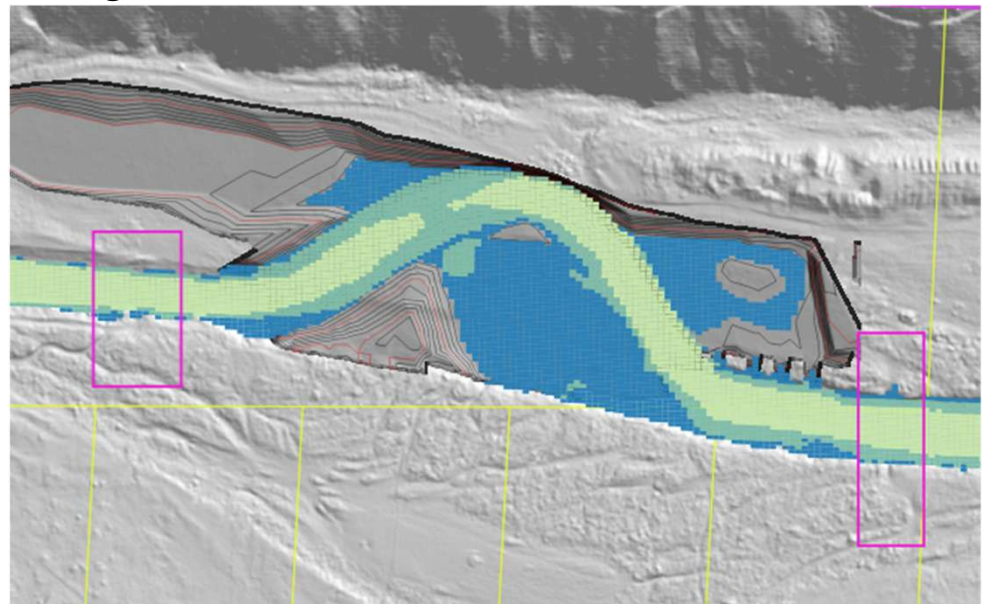
Water Velocity (ft/sec.)



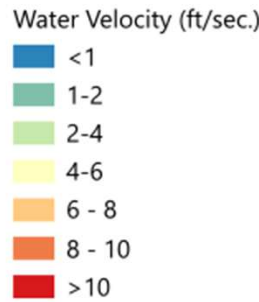
Existing Conds.



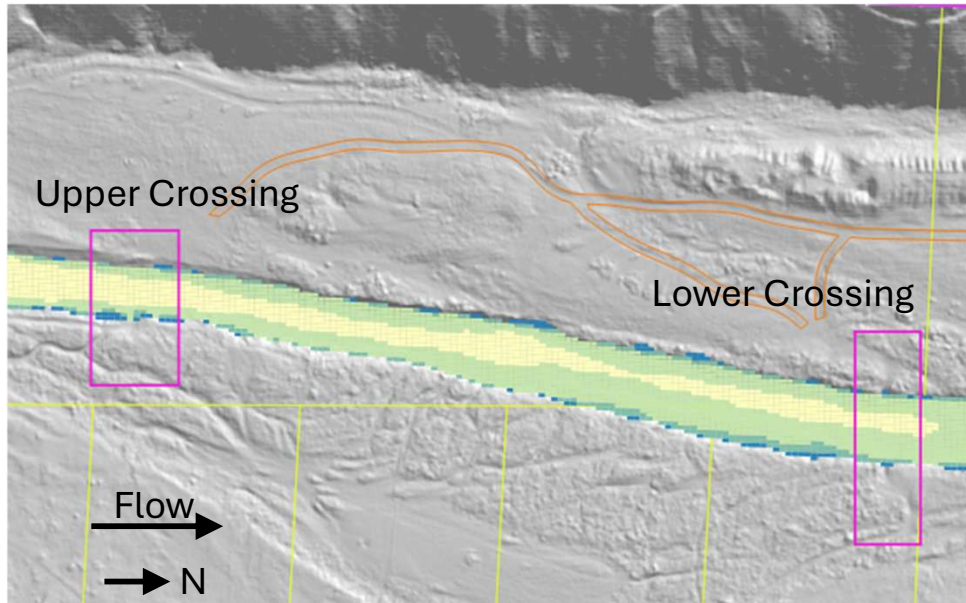
Design Conds.



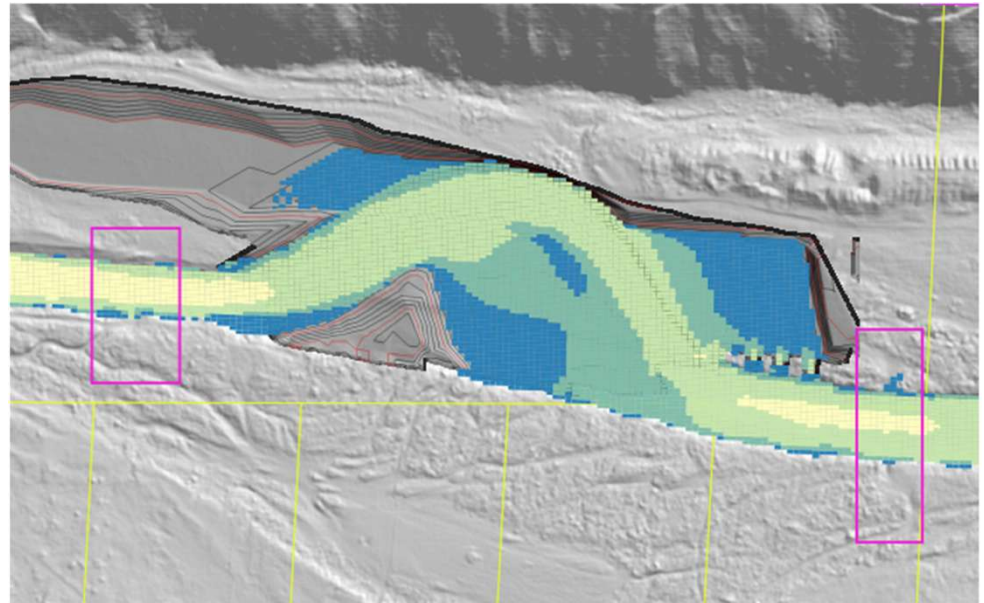
Velocity Comparison: 2,000 cfs



Existing Conds.

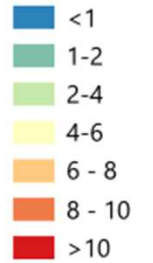


Design Conds.

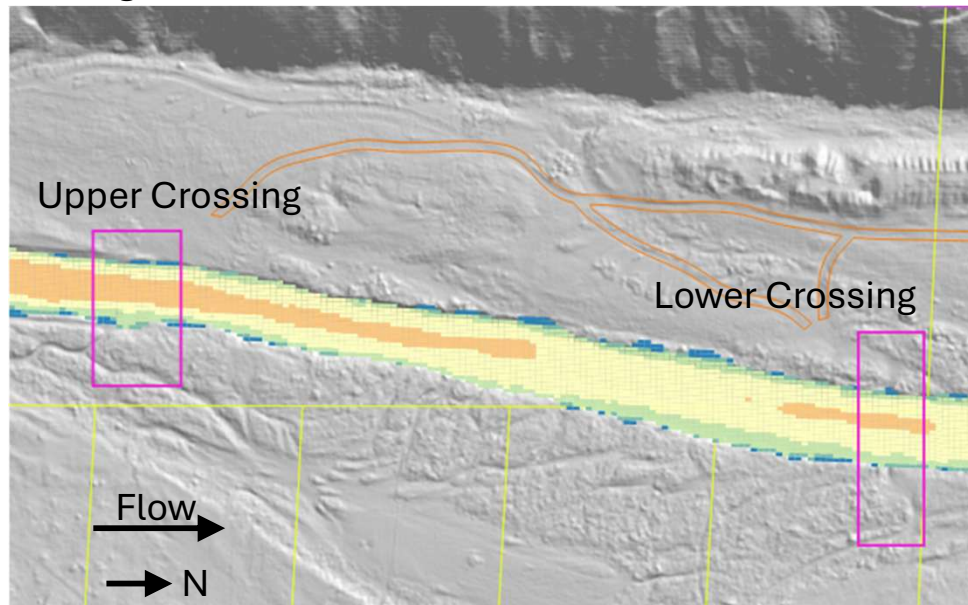


Velocity Comparison: 4,000 cfs

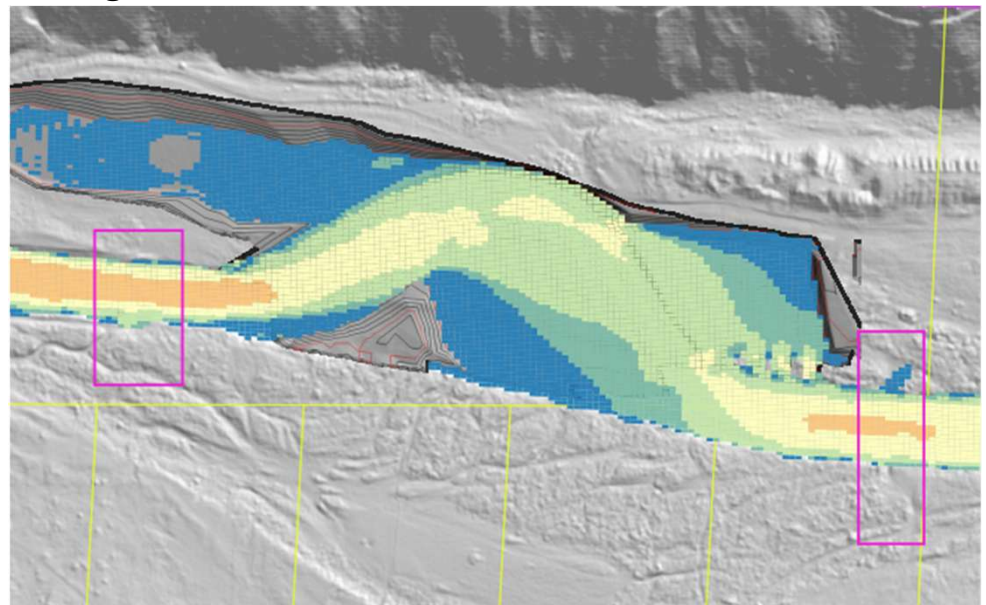
Water Velocity (ft/sec.)



Existing Conds.

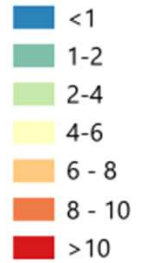


Design Conds.

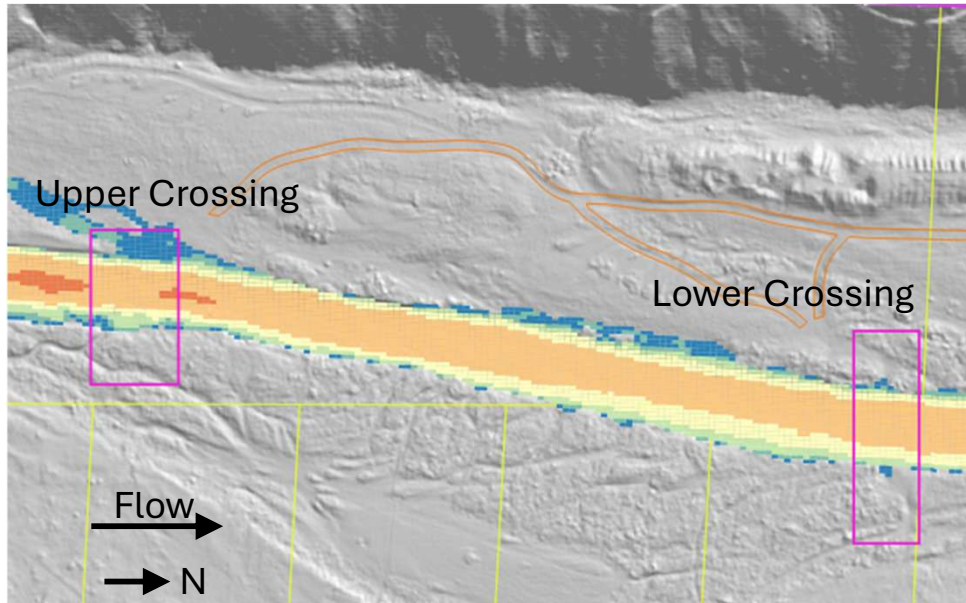


Velocity Comparison: 6,000 cfs

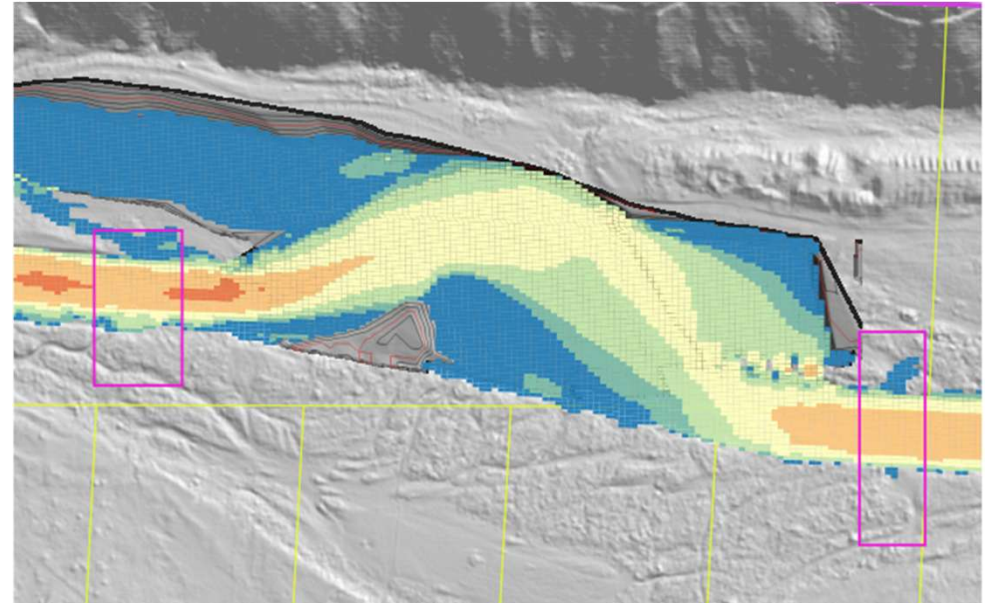
Water Velocity (ft/sec.)



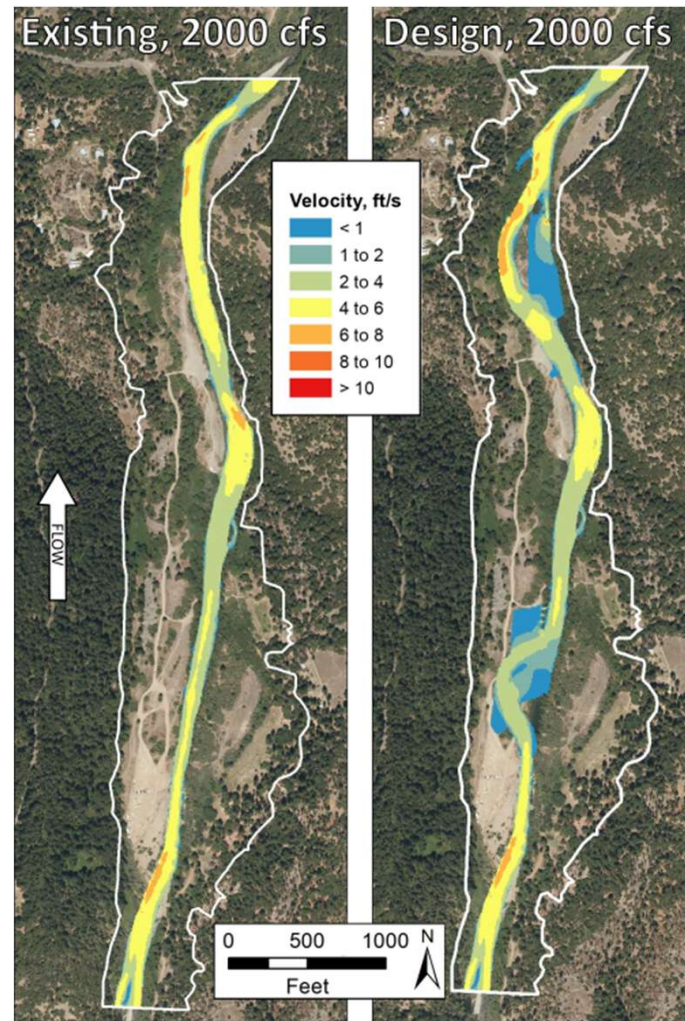
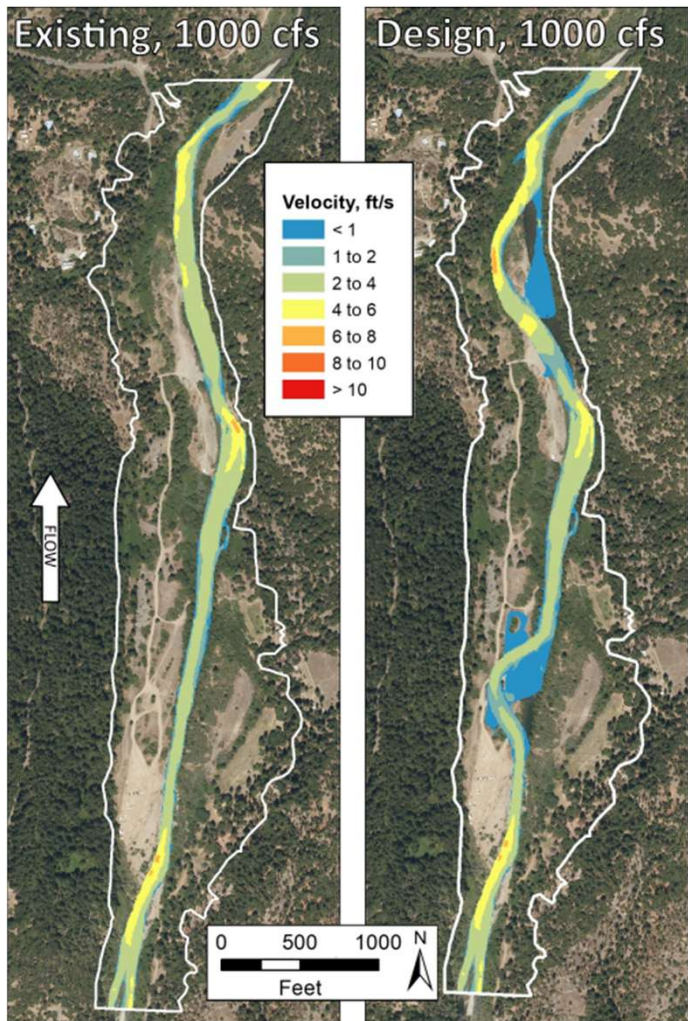
Existing Conds.



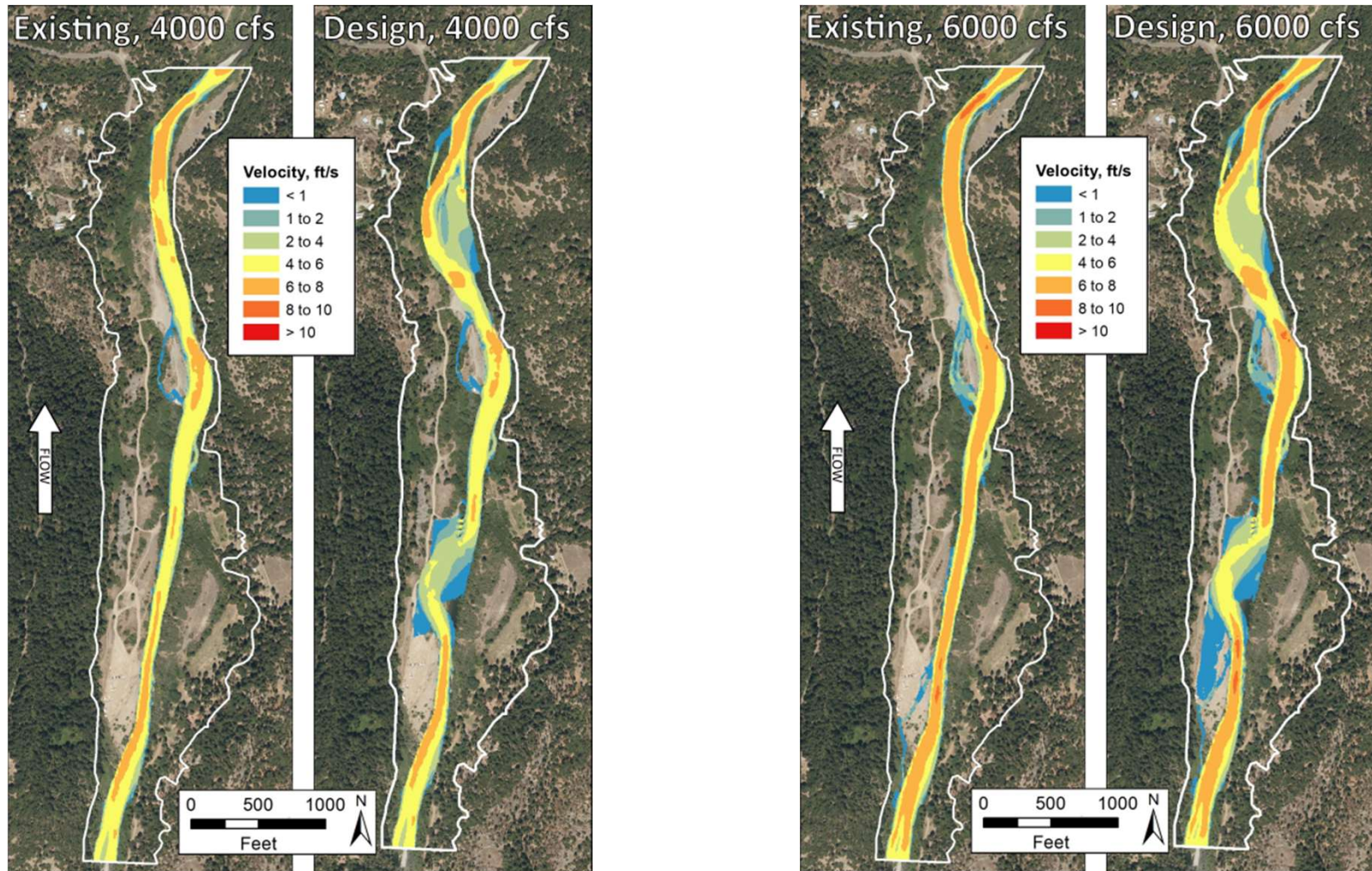
Design Conds.



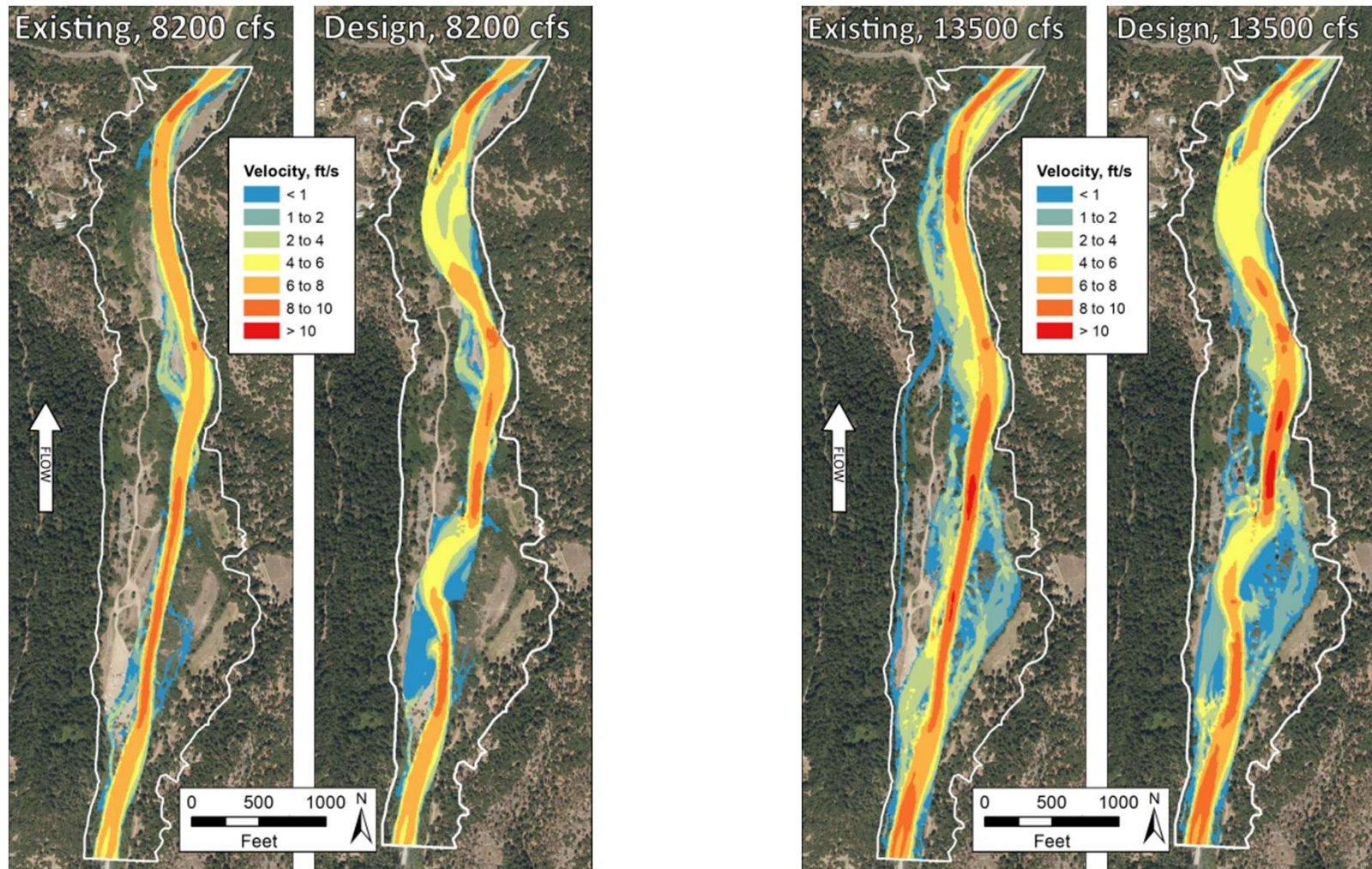
Model Data: Flow Velocities & Inundated Area



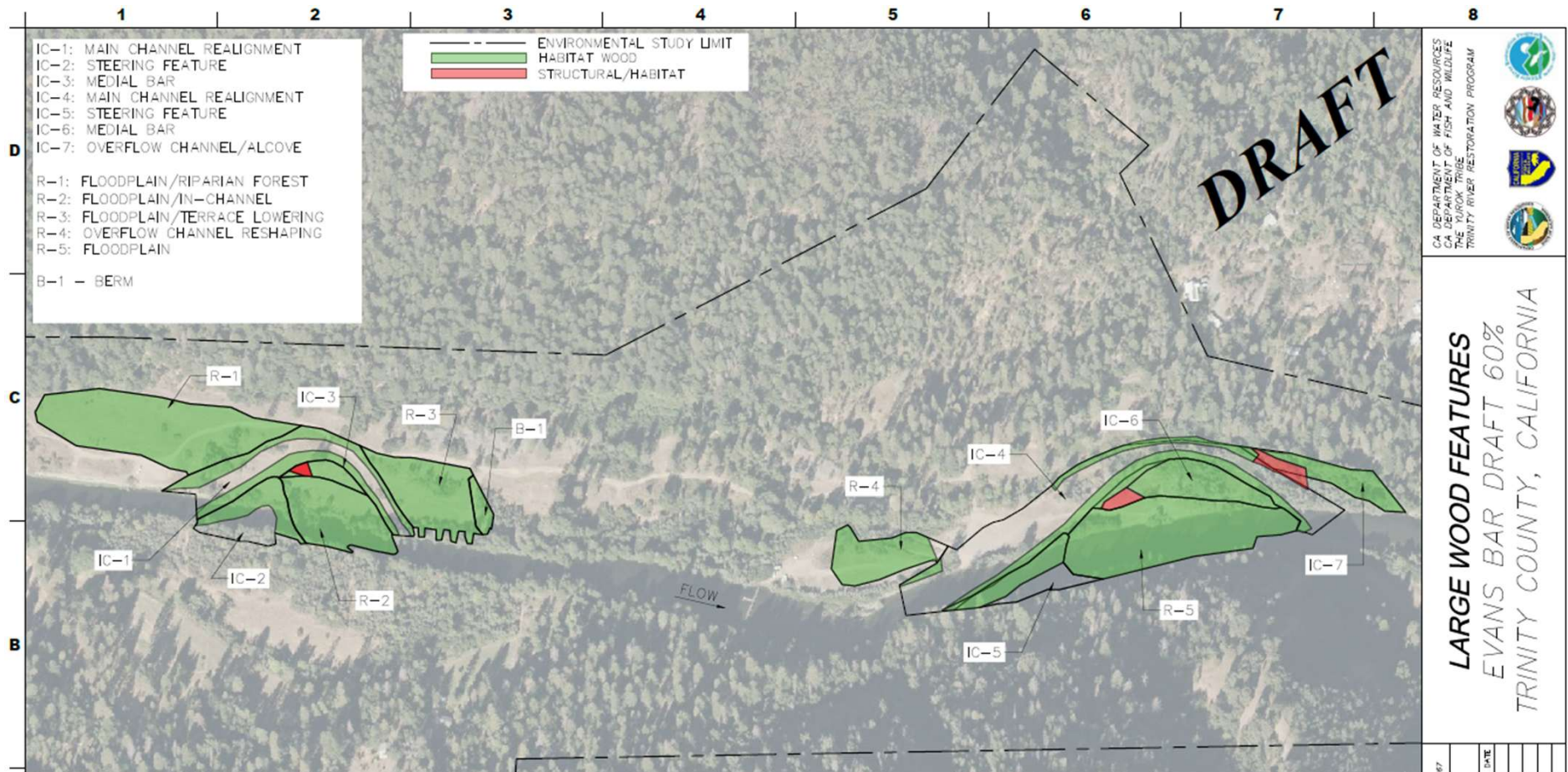
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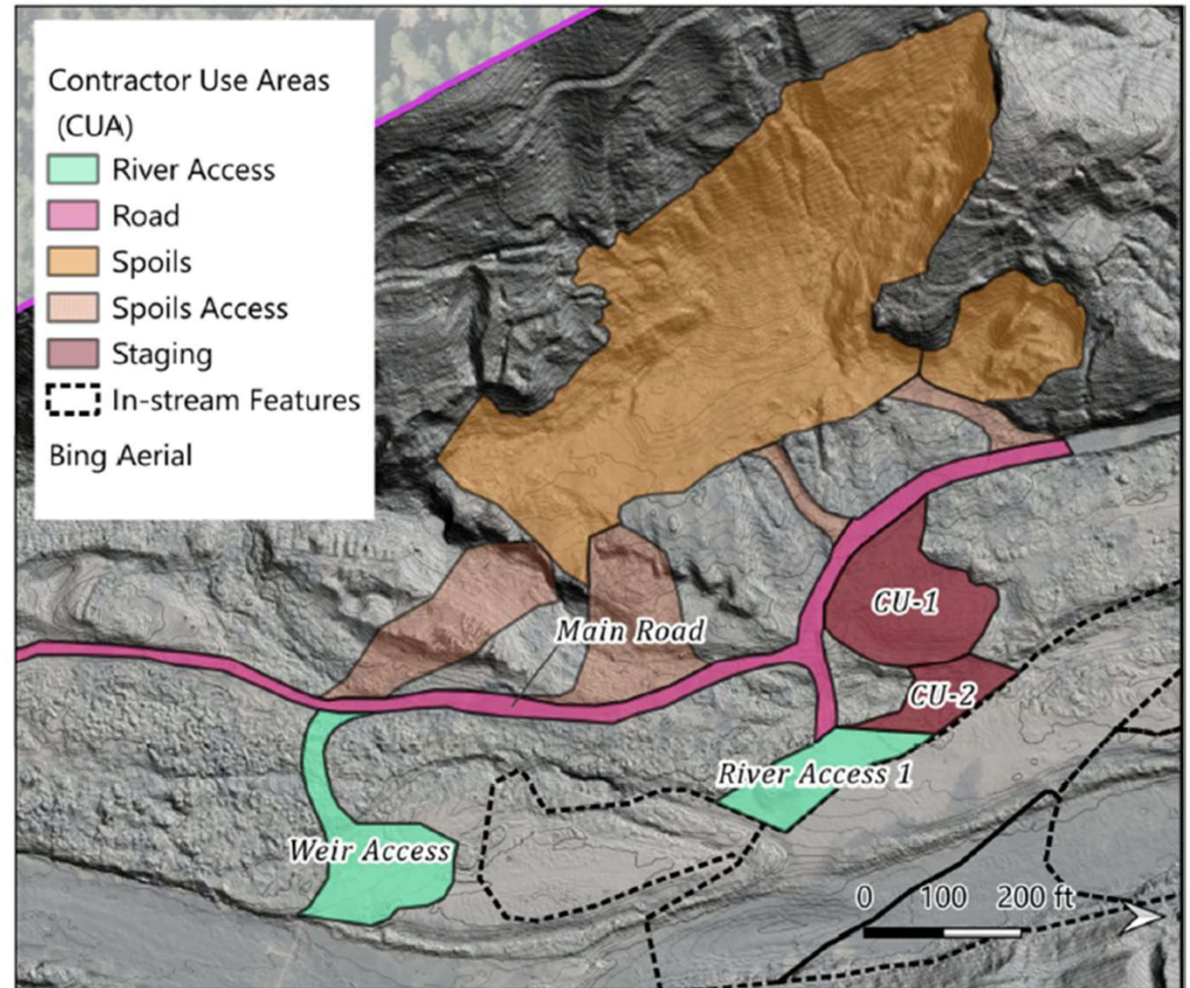
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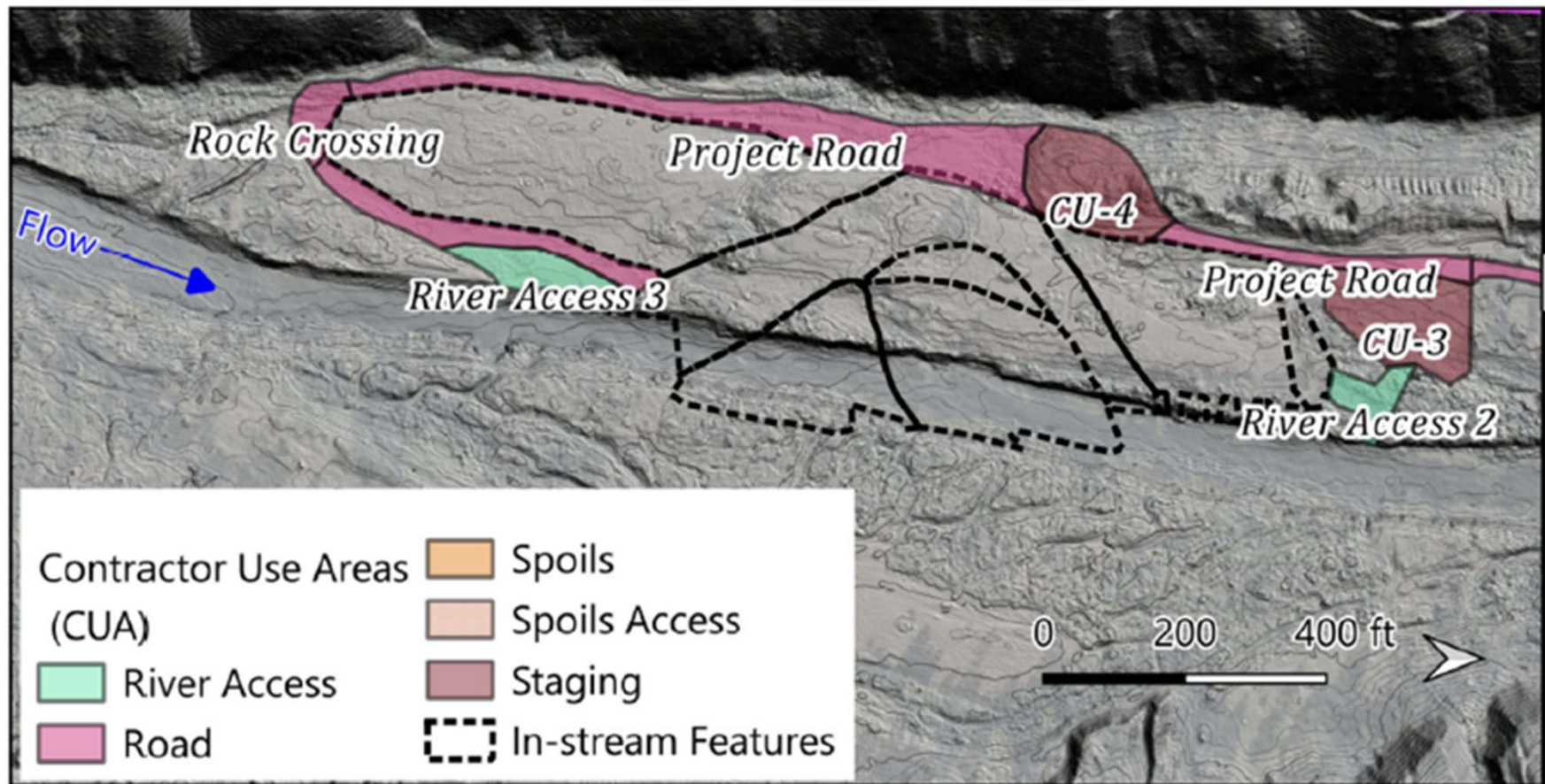
Large Wood Features – Approximate



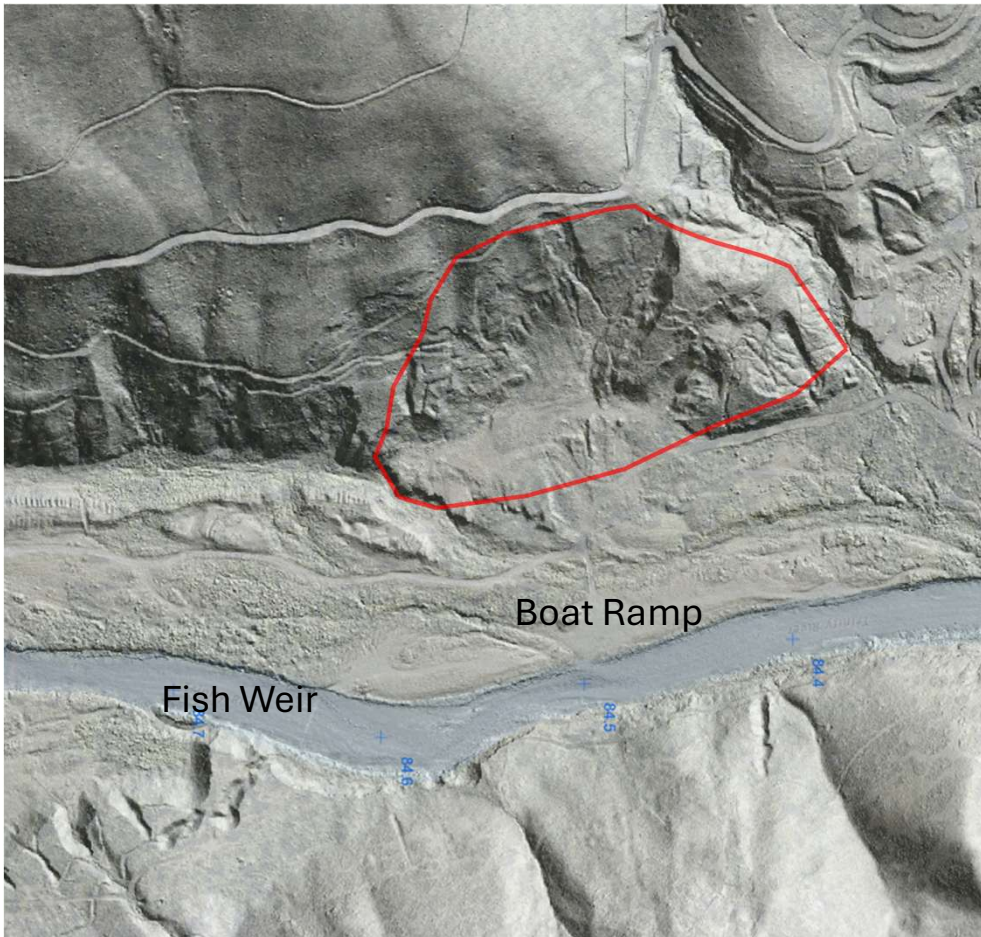
Contractor Use, Roads, & River Access



Contractor Use, Roads, & River Access



Evans Bar Spoils



Area in red is our primary aim for spoils

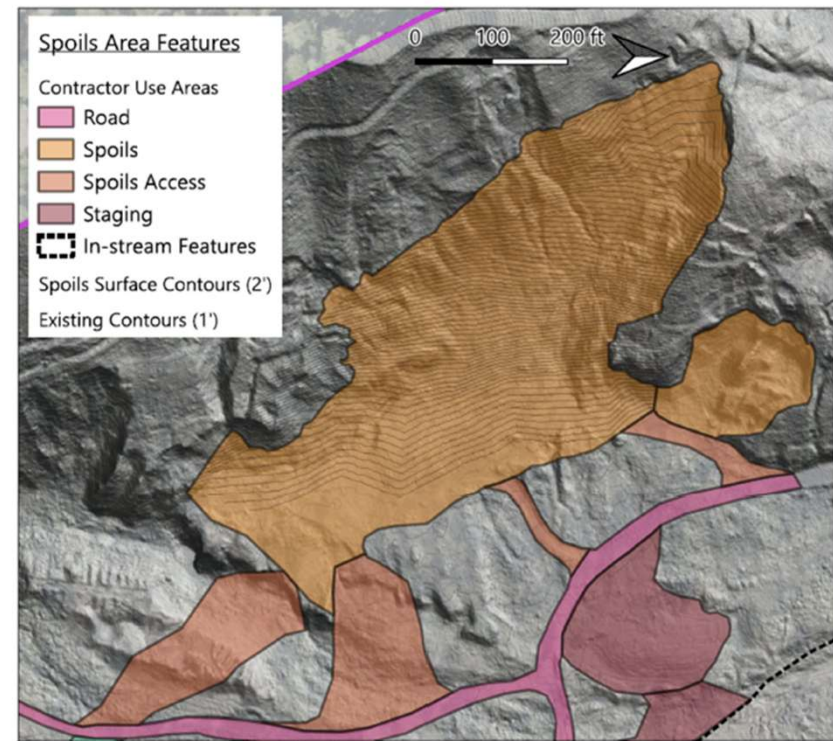
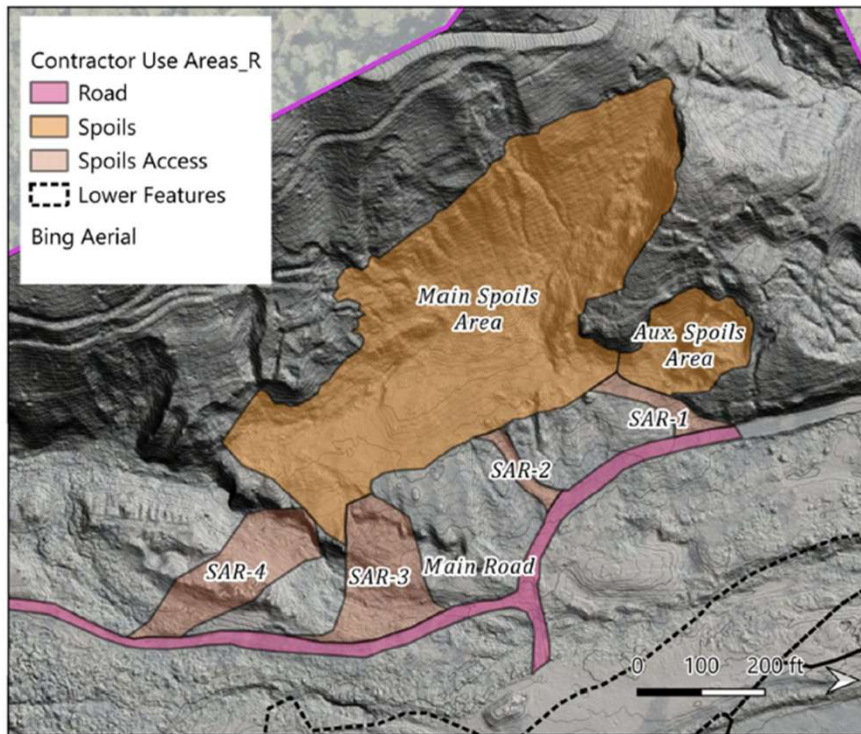
Reasons we like this area:

- Fills-in a hydraulic mining scar
- Most of area is outside 500-year floodplain
- Will accept majority of spoils
- Provides trees for in-stream features

Cut and Fill Volume Estimates

Feature Name	Area (Acre)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)	
<i>Upper Segment</i>					
IC-1	1.8	37,100	270	36,830	
IC-2	0.9	2,000	9,040	-7,040	<i>net fill</i>
IC-3	0.2	4,160	0	4,160	
R-1	2.9	26,690	40	26,650	
R-2	1.3	8,770	3,870	4,900	
R-3	1.3	13,770	10	13,760	
B-1	0.2	110	490	-380	<i>net fill</i>
<i>subtotal</i>	<i>8.7</i>	<i>92,600</i>	<i>13,720</i>	<i>78,880</i>	
<i>Lower Segment</i>					
IC-4	4.0	36,350	1,570	34,780	
IC-5	0.8	60	8,140	-8,080	<i>net fill</i>
IC-6	1.1	11,560	100	11,460	
IC-7	0.7	3,980	50	3,930	
R-4	0.9	1,370	240	1,130	
R-5	2.8	4,170	12,410	-8,240	<i>net fill</i>
<i>subtotal</i>	<i>10.2</i>	<i>57,490</i>	<i>22,510</i>	<i>34,980</i>	
Total	18.9	150,090	36,230	113,860	

Spoils Area



Next Steps...

- Receive comments on draft 60% design
- Surveys:
 - Cultural & Archaeology
 - Need to know about tailings and spoils viability
- USFS review
- Site walk with contractor
- Cost Estimate
- Draft revegetation plan prior to 90% Design

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