

Project: South Fork Chehalis RM 0-2 Design and Construction

Synopsis:

- **Sponsor:** Lewis CD
- **Location:** Lewis County, Willapa Hills Ecological Unit, Lower South Fork Chehalis Mainstem GSU (a near term priority area)
- **Landowner:** Multiple Private landowners
- **ASRP Priority Limitations for this location:** Key habitat, Temperature, and Habitat Diversity
- **ASRP Priority Actions for this location:** Place Large Wood, Riparian Restoration, reconnect/restore floodplain
- **Cost:** \$4,491,000 from ASRP 2023-25 BN; \$7,060,755 total
- **Narrative:**
 - Reach Scale restoration of 1.7 miles along the South Fork Chehalis River including engineered log jams (ELJs), off-channel habitat creation, floodplain reconnection, bank protection, riparian restoration, and invasives management. The South Fork Chehalis River is prioritized by the ASRP in part due to the presence of Spring Chinook.
 - Engineered log jam complexes will provide key habitat features for salmon, increase habitat diversity, increase side channel flow, increase channel stability along rapidly eroding banks, and capture sediment.
 - Off channel habitat and floodplain reconnection will provide safe areas for fish and other aquatic species during high-flow events, as well as important habitat for rearing.
 - Bank protection will reduce erosion near one threatened structure.
 - Riparian plantings and invasive management will increase cover to reduce temperature, increase channel stability, increase habitat diversity, and increase long term habitat diversity by providing large wood material inputs.
 - Intended long term outcome for the project is increased floodplain connectivity, reduced channel migration to allow for riparian forests to mature, a substantial increase in stable large wood throughout the reach, and multiple channels.

Outcomes (Funded by this project):

- Preliminary design
- Final design
- 1.7 miles of large river restoration
- 52 ELJs (estimated)
- 37 acres of riparian plantings
- 50 acres of invasive species management

Previous and Related Funding:

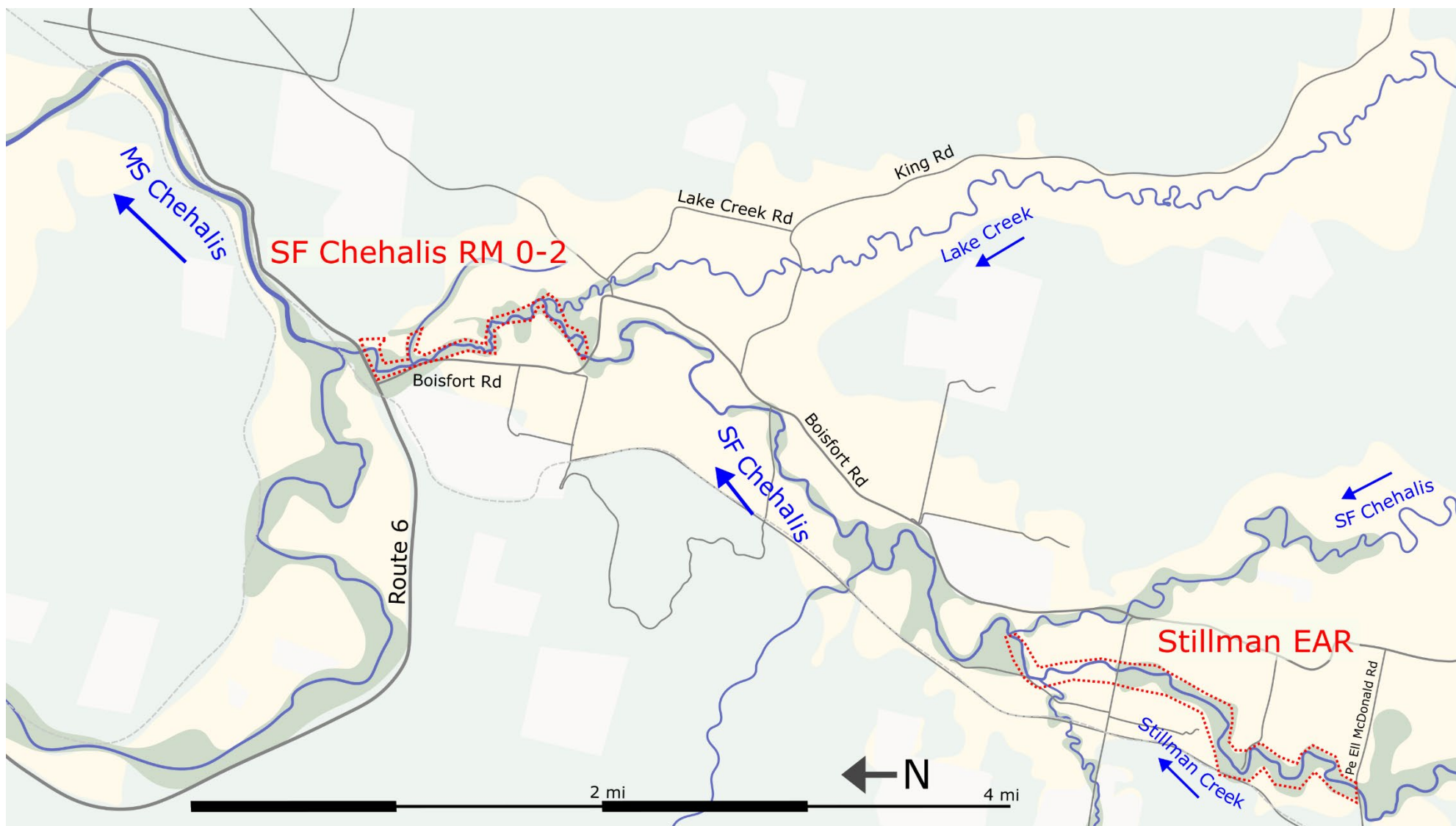
- \$40,000 awarded to Lewis CD through ASRP for project development at confluence of SF Chehalis and Lake Creek in June 2022
- Funded landowner outreach and concept design

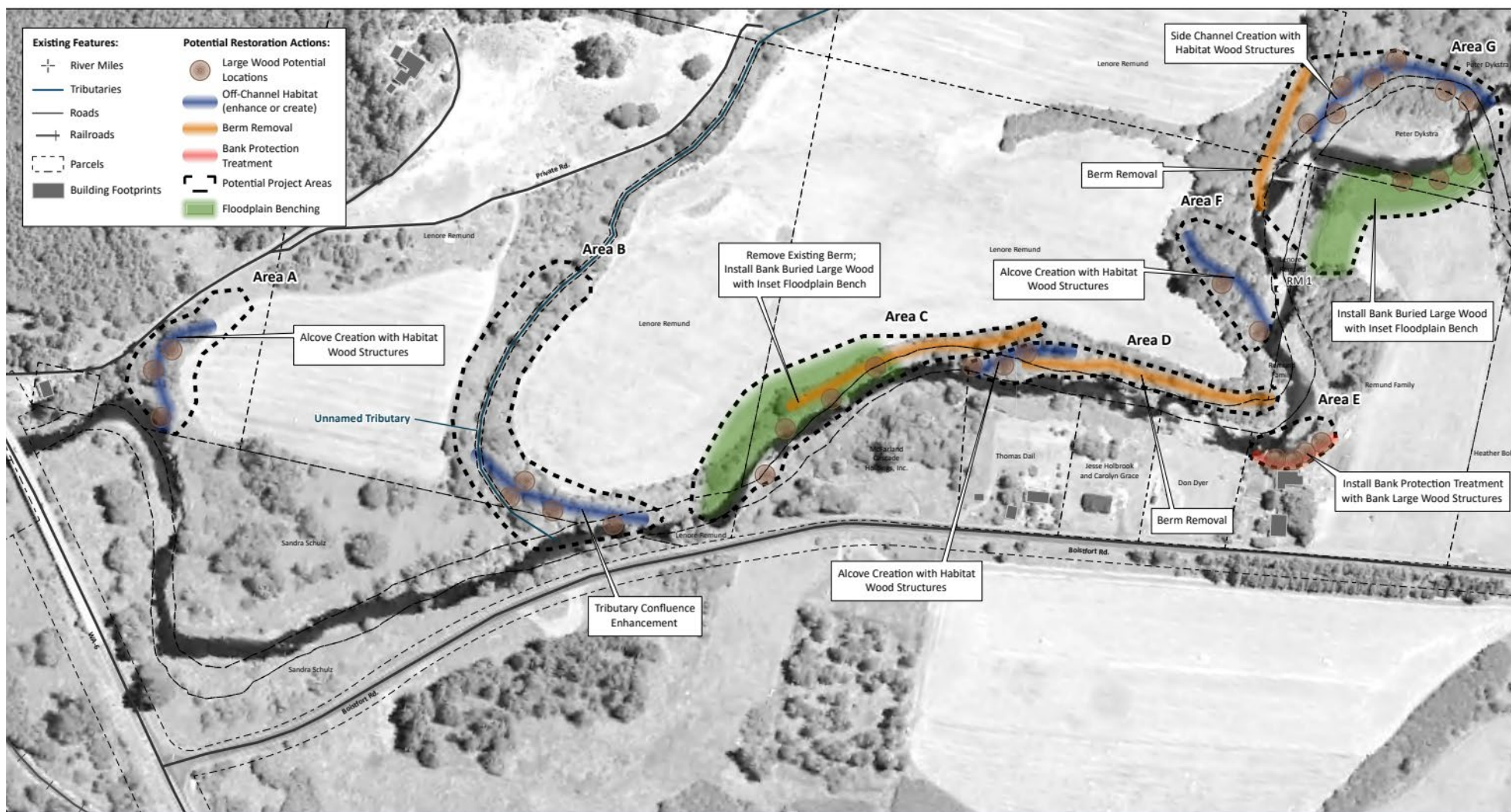
Milestones + Timeframe:

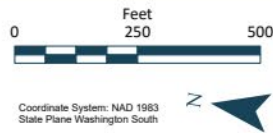
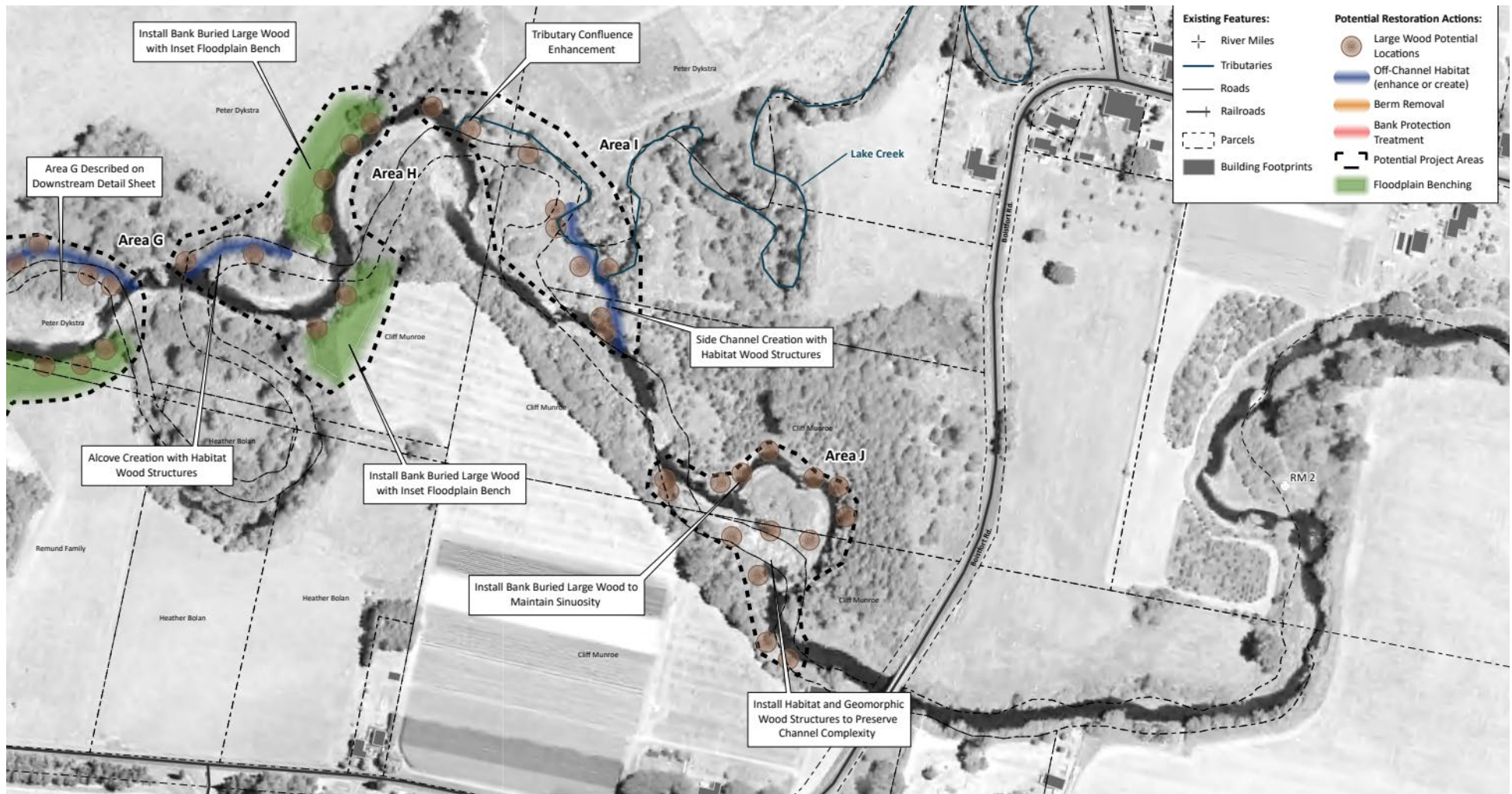
- Data Collection: Spring 2024
- Preliminary Design: Fall 2024
- Final Design + Permitting: Summer 2025
- In water construction: Summers 2025 and 2026
- Riparian Planting: Falls 2025-2027

Feedback:

- Steering Committee proposed phasing project funding
- Would like baseline habitat conditions to be documented and incorporated into design
- Future projects of this scale would benefit from receiving additional funding for establishing baseline habitat data through surveys and monitoring project impacts.







NOTES:
 1. These map drawings should be viewed only as preliminary concepts intended to describe the type(s) of potential restoration work that could be performed. Additional site investigations, analysis, and design will be necessary to determine treatment type specifics, designs, and locations.
 2. Background image is 2021 NAIP CIR imagery.
 3. Parcel lines are from Lewis County GIS Portal.



South Fork Chehalis River Conceptual Design Map

Upstream Potential Project

South Fork Chehalis River, W