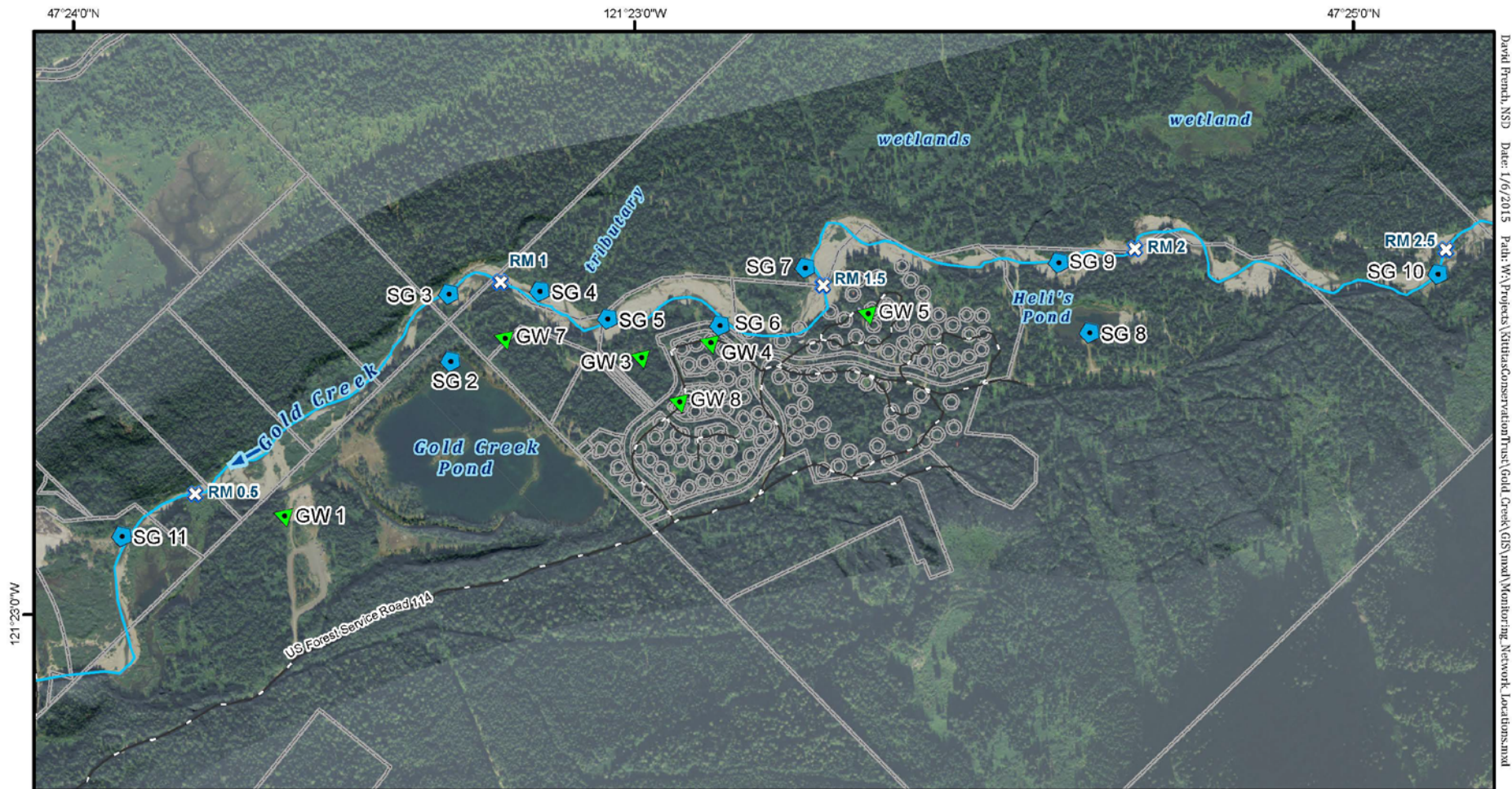


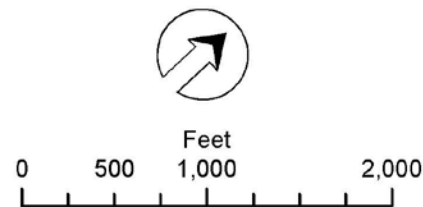


David French, NSD Date: 1/6/2015 Path: \\VA\Projects\KittitasConservationTrust\Gold_Creek_GIS\msh\Monitoring_Network_Locations.mxd



Legend

- +16 River Miles
- ▲ Groundwater Well
- Surface Gauge
- ~ Streams
- Roads
- Parcel Boundary



Data sources:
USDA National Agriculture Imagery Program 2011
2012 LiDAR from Watershed Sciences, Inc.



**Gold Creek
Monitoring Network Locations**

**Northeast of Snoqualmie Pass
Kittitas County, Washington**

FIGURE I – Monitoring network locations

Gold Creek Concept Design



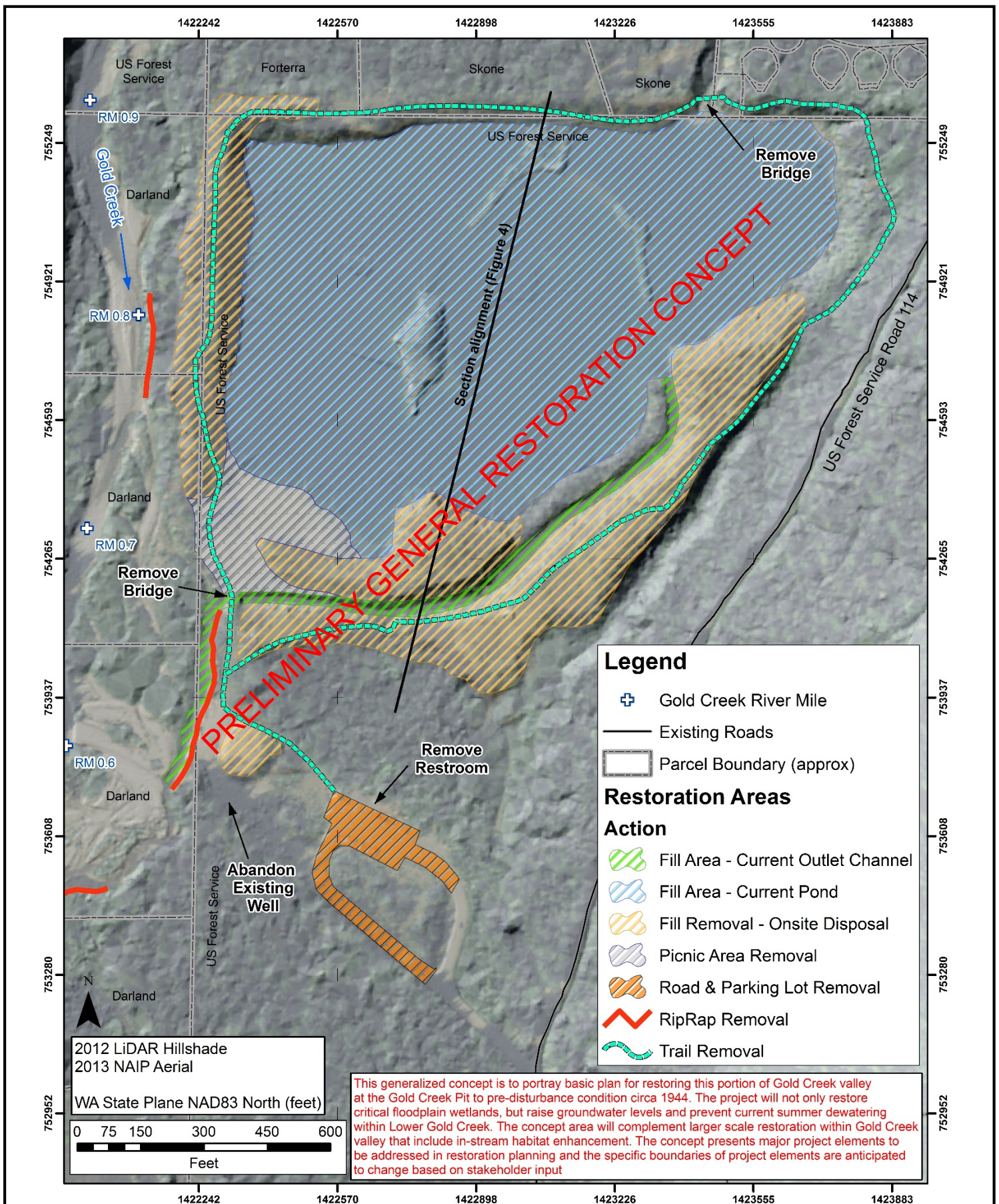


FIGURE 2 – Gold Creek Pond Restoration Actions

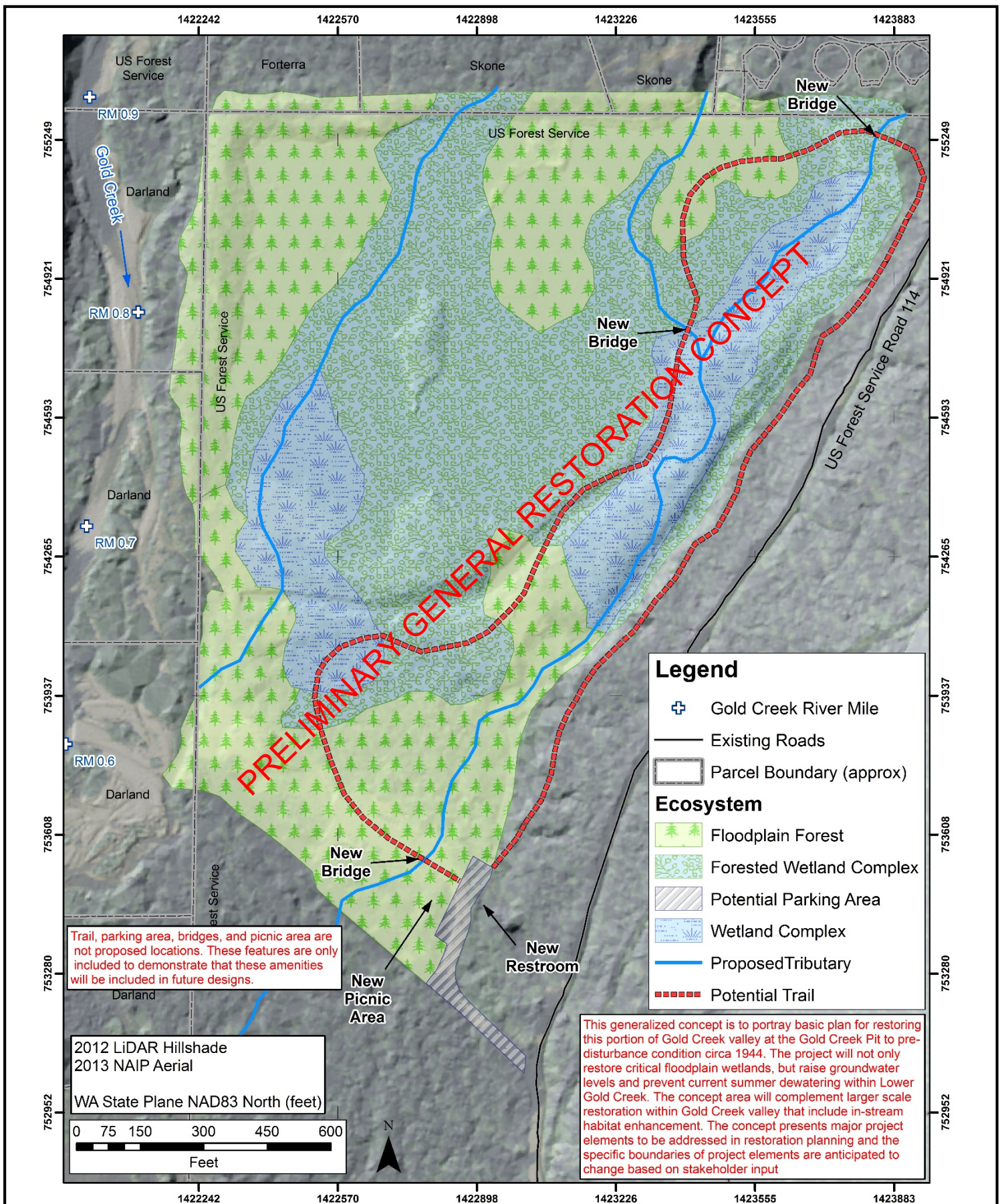


FIGURE 3 – Gold Creek Pond Restoration Concept Design

Gold Creek Concept Design



Off-channel wetland complex on western floodplain near RM 1.1.
Beaver dam creating 2-ft difference in water elevation in foreground



Mardee Lake open water wetland with emergent wetland edge.
West of Gold Creek Valley approx. 0.3 miles.

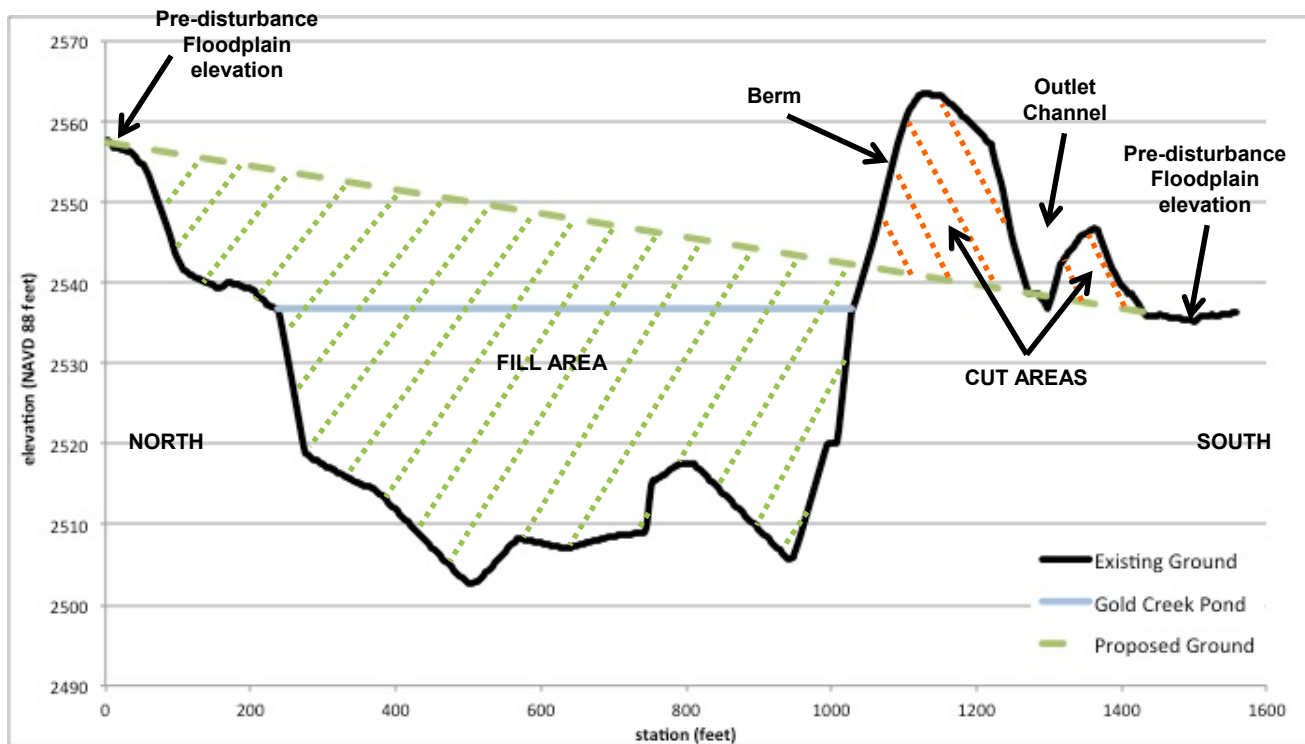
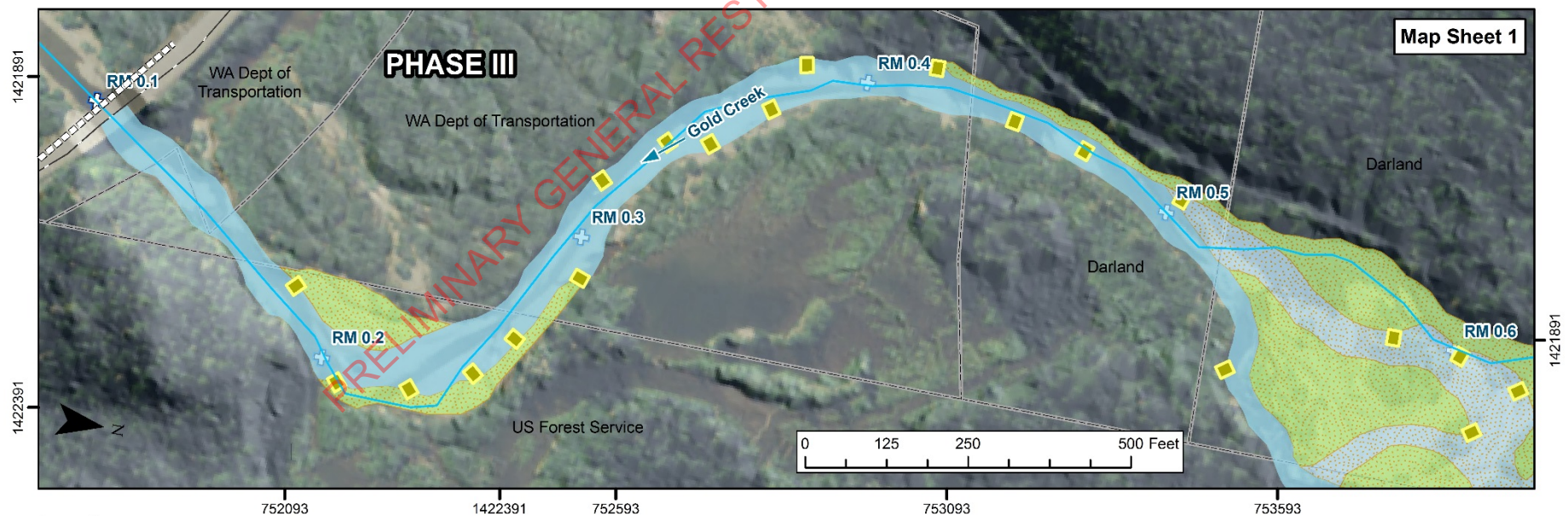
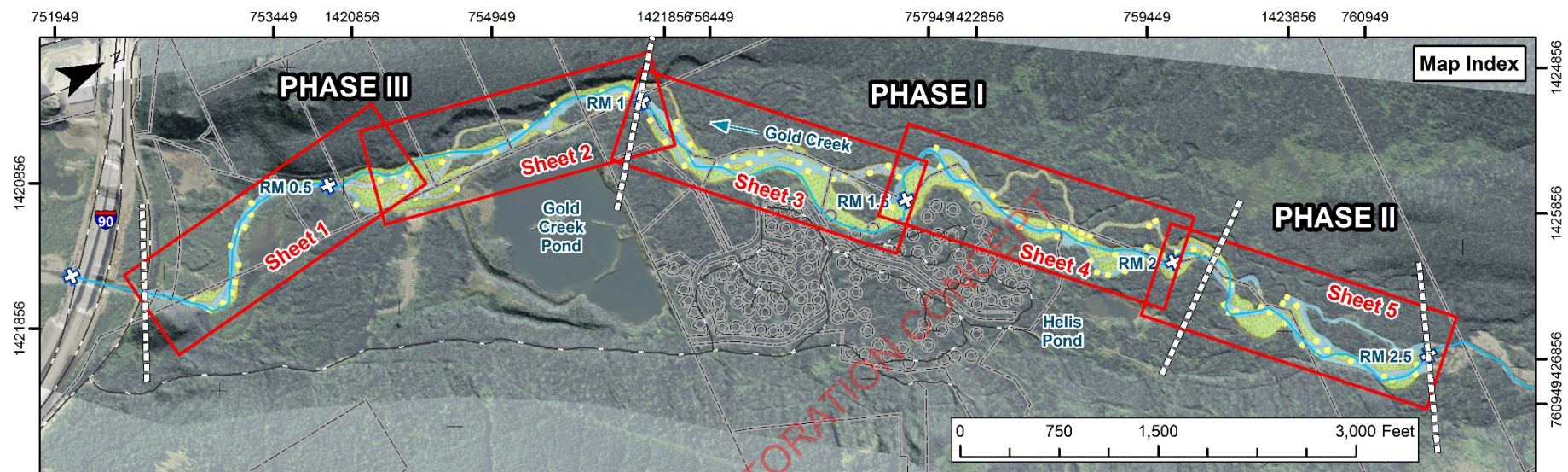


FIGURE 4 – Gold Creek Pond Restoration Profile and
Reference Photos



Legend

- River Mile
- Gold Creek (2013)
- Existing Roads
- Parcel Boundary (approx)
- Instream Restoration**
 - Channel
 - Channel Excavation
 - Roughened Floodplain
 - Engineered Wood Structure

This generalized concept is to portray basic plan for restoring this portion of Gold Creek valley within Gold Creek to pre-disturbance condition circa 1944. The project will restore critical instream habitat by emulating natural processes that once sustained habitat and stabilized the channel. The concept area will complement larger scale restoration within Gold Creek valley that include restoration of Gold Creek Pond. The concept presents major project elements to be addressed in restoration planning and the specific boundaries of project elements are anticipated to change based on stakeholder input.

Coordinate System
Washington State Plane NAD 83 South (feet)

Data sources
USDA National Agriculture Imagery Program 2013
2012 LIDAR from Watershed Sciences, Inc.

Gold Creek Instream Restoration Concept Design

Northeast of Snoqualmie Pass
Kittitas County, Washington



FIGURE 5 – Gold Creek Restoration Actions (Map Index & Downstream Section)

Gold Creek Concept Design



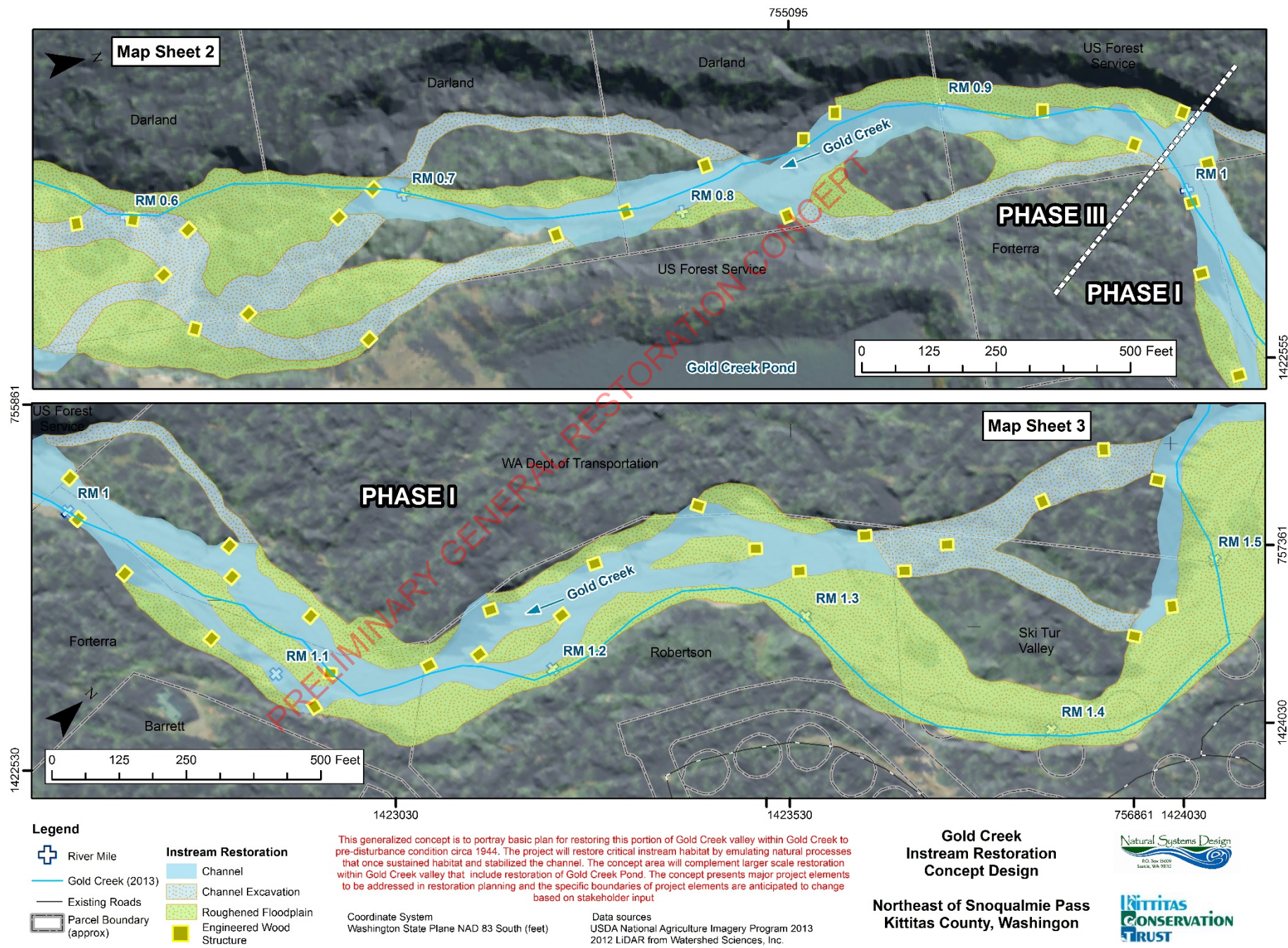


FIGURE 6 – Gold Creek Restoration Actions (Middle Section)

Gold Creek Concept Design

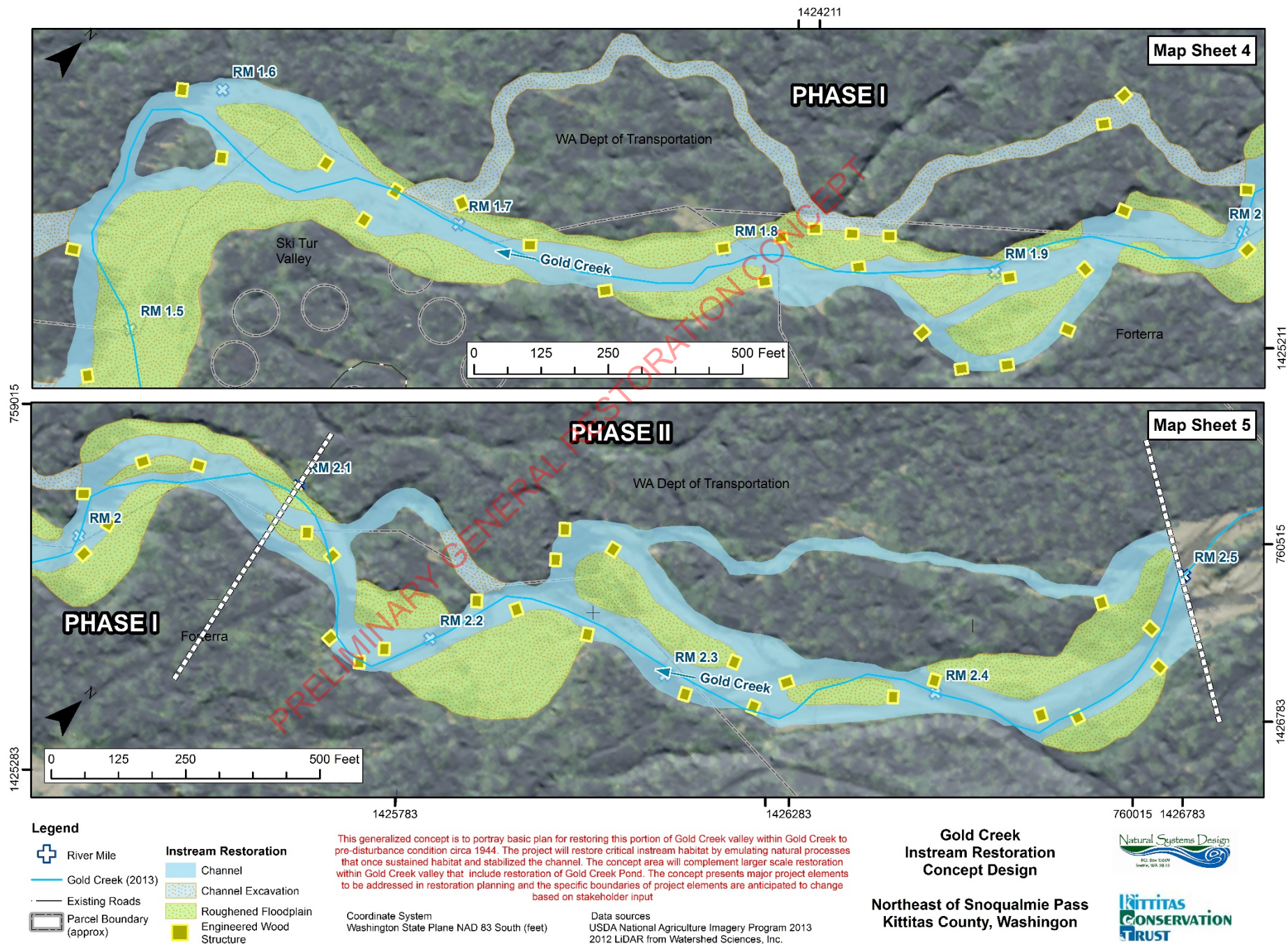
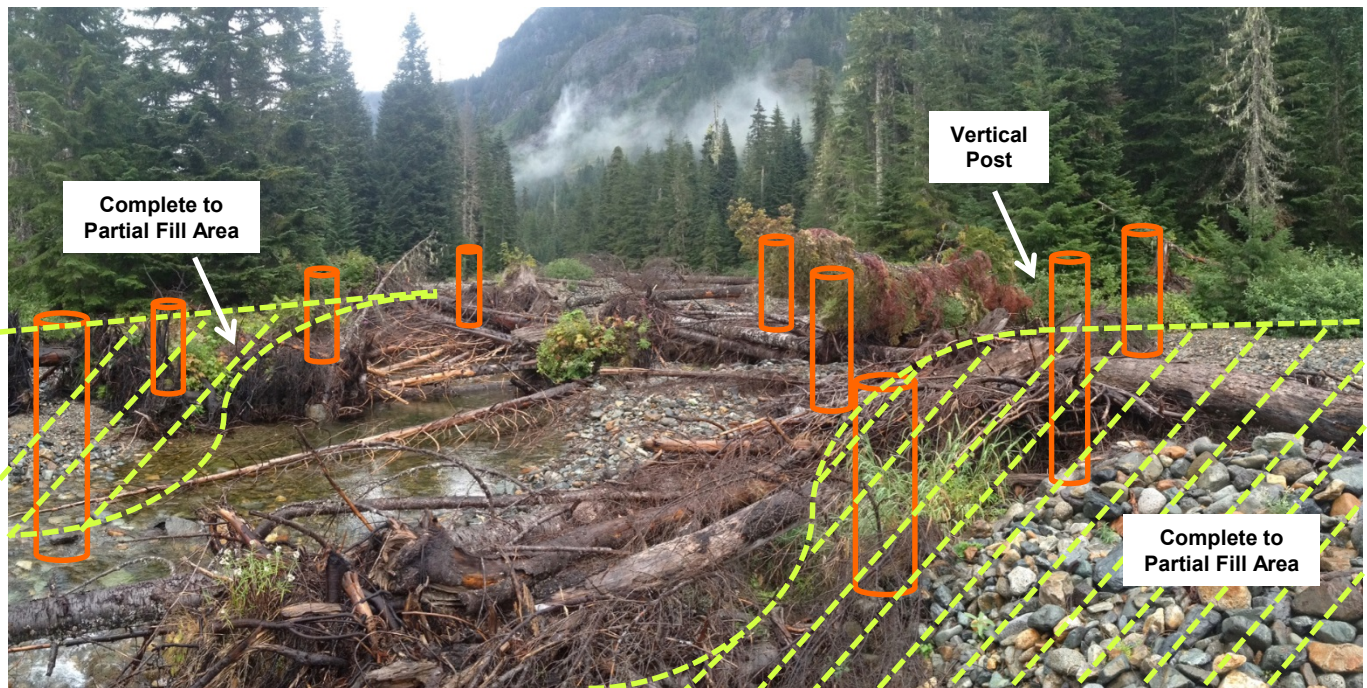


FIGURE 7 – Gold Creek Restoration Actions (Upstream Section)

Gold Creek Concept Design



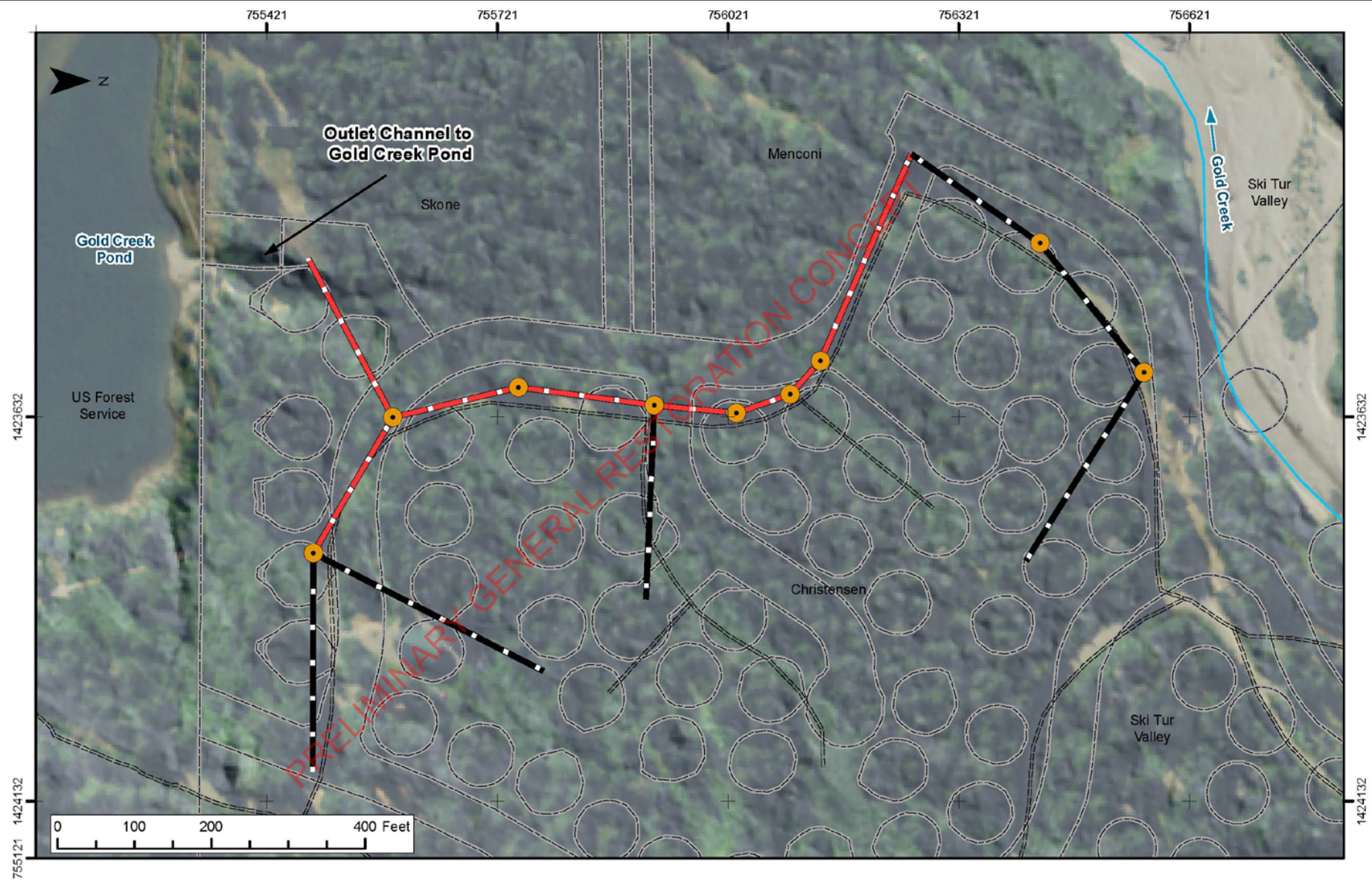
Example of existing natural wood accumulation in Gold Creek near RM 1.25 creating deep pool with cover. Logjam is 40-ft wide X 40-ft long and is creating a stable hardpoint in the channel that has persisted for 6-9 years.



View of current channel near RM 2.25 where channel has eroded adjacent channel banks and recruited multiple large trees. This site serves as a reference condition location for the proposed roughened floodplain structure. Tree placement is a varied, forming a complex arrangement on unvegetated gravel bars where proposed. Vertical and/or inclined posts, combined with partial to complete backfilling, will be used to stabilize the structure.

FIGURE 8 – Gold Creek Restoration Reference Photos

Gold Creek Concept Design



Legend

- Gold Creek (2013)
- Parcel Boundary (approx)
- Existing Roads
- Manhole
- Filled and Sealed Section
- Drainage Line

This generalized concept is to portray basic plan for restoring this portion of Gold Creek valley at the existing drainage line. The project will raise groundwater levels during the summer months when dewatering in Gold Creek occurs. The concept is to fill and seal the lower section of the drainage line to prevent piping of groundwater directly into Gold Creek Pond. The concept presents major project elements to be addressed in restoration planning and the specific boundaries of project elements are anticipated to change based on stakeholder input.

Coordinate System
Washington State Plane NAD 83 South (feet)

Data sources
USDA National Agriculture Imagery Program 2013
2012 LiDAR from Watershed Sciences, Inc.

Drainage Line Restoration Concept Design

Northeast of Snoqualmie Pass
Kittitas County, Washington



FIGURE 9 – Drainage Line Restoration Concept Design

Gold Creek Concept Design

