

# TRUCKEE RIVER WATERSHED COUNCIL

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[www.truckeeriverwc.org](http://www.truckeeriverwc.org)

## Martis Wildlife Area Restoration Intermediate Design Plans (65%)

### 1. Site Plans

- Culvert Replacement and Stream Restoration  
Current conditions include two failed 24 inch culverts that have caused streambank and recreational trail damage (see photos below). Site plan includes:
  - o Major project activities
  - o Limit of project area



Figure 1- Eastern culvert along unnamed tributary to Martis Creek. Culvert has failed and has eroded under the current recreational trail bridge.



Figure 2- Eastern culvert along unnamed tributary to Martis Creek. Culvert has failed and is breached on north side of recreational trail.



Figure 3- Western culvert on unnamed tributary to Martis Creek. Culvert has been eroded and exposed. High flow events exceed current culvert capacity.



- Lookout Mountain Tributary

Current conditions include an approximately 200 foot section of Lookout Mountain Tributary that has incised 2 to 3 feet. Site plans include:

- o Major project activities
- o Limits of project area
- o Bio-engineered check dam detail



Figure 4- Lookout Mountain Tributary facing east/downstream. Stream incision and bank erosion evident.



Figure 5-Lookout Mountain Tributary facing southwest/upstream. Stream incision evident.

- Middle Martis Creek Headcut

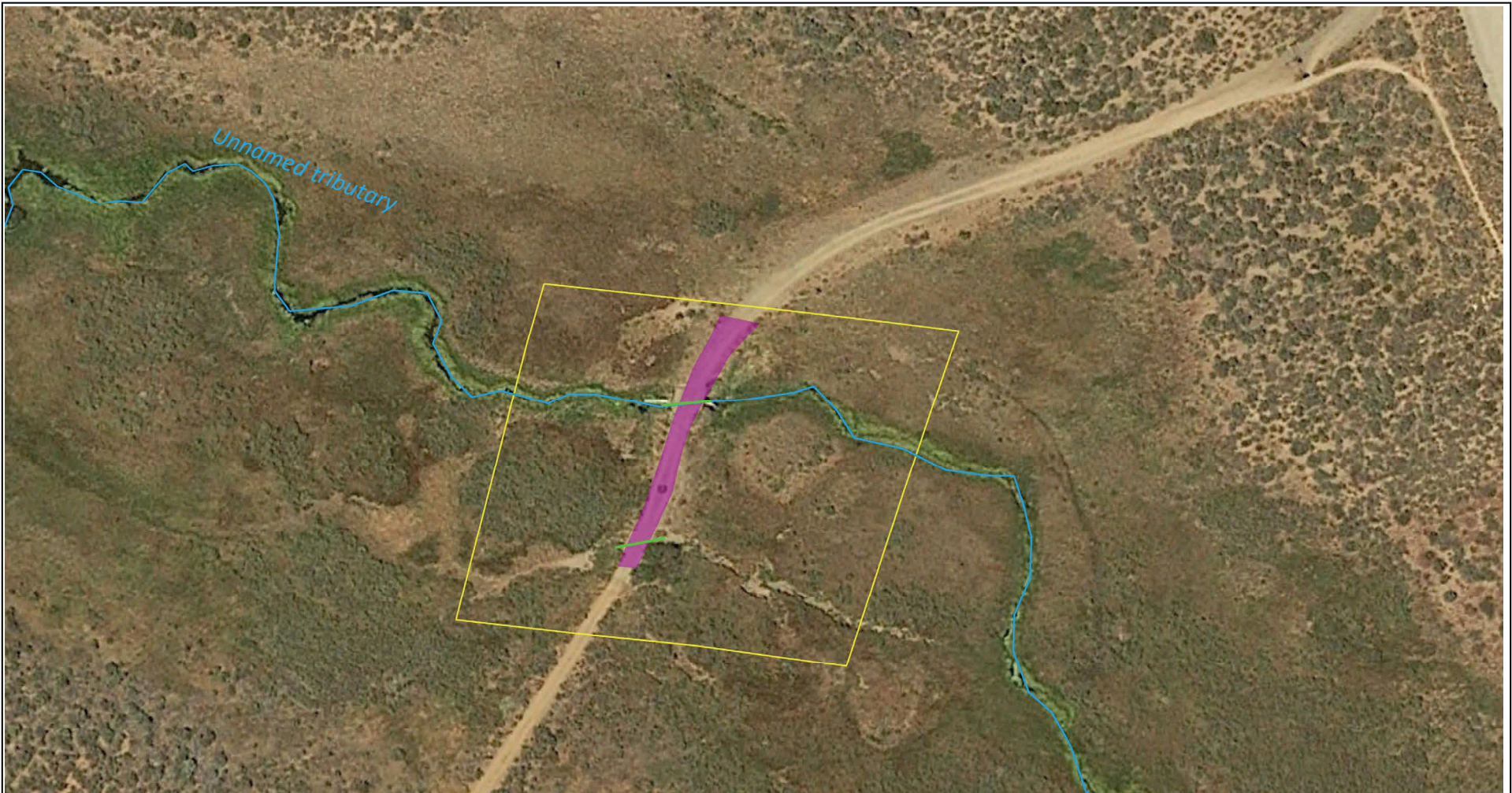
Current conditions include an approximately 3-4 foot headcut. Site plans include:

- Major project activities
- Limit of project area
- Buried log grade control detail



Figure 6-Middle Martis Creek headcut.





**Legend:**

Project area



Culvert replacement



Trail tread repair



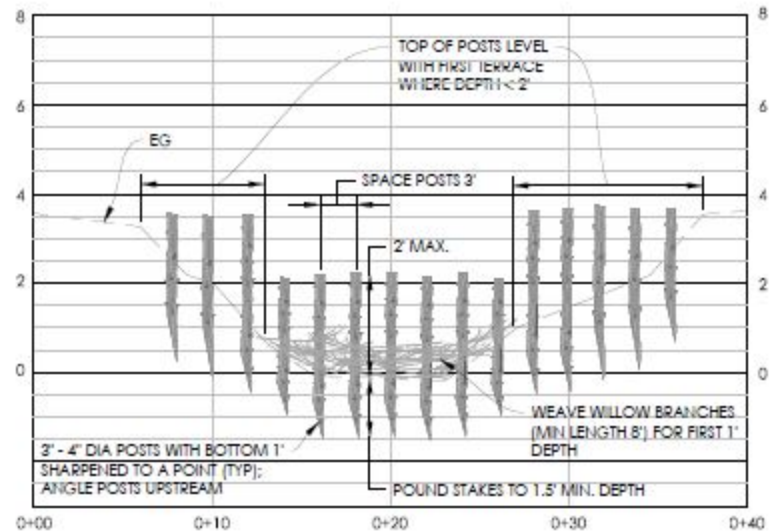
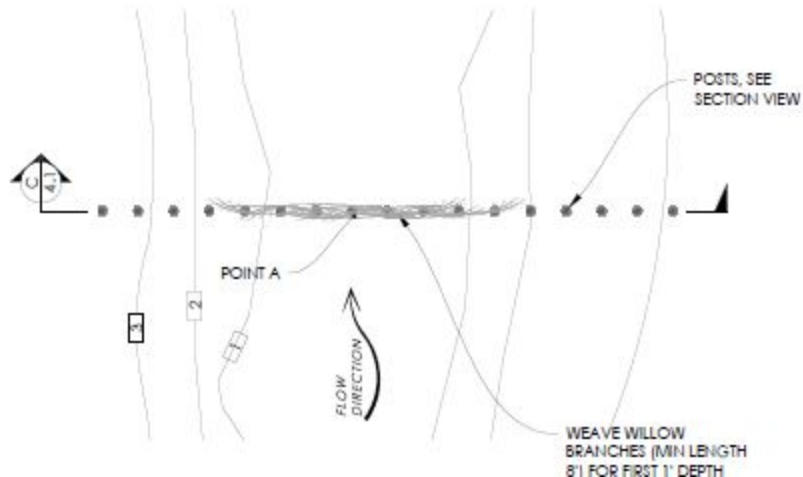
Truckee River Watershed Council  
Implementation of Martis Mainstem and  
Wildlife Area Wetland Restoration  
Culvert Replacement and Stream  
Restoration



N

40 ft

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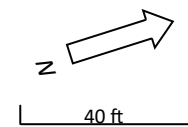




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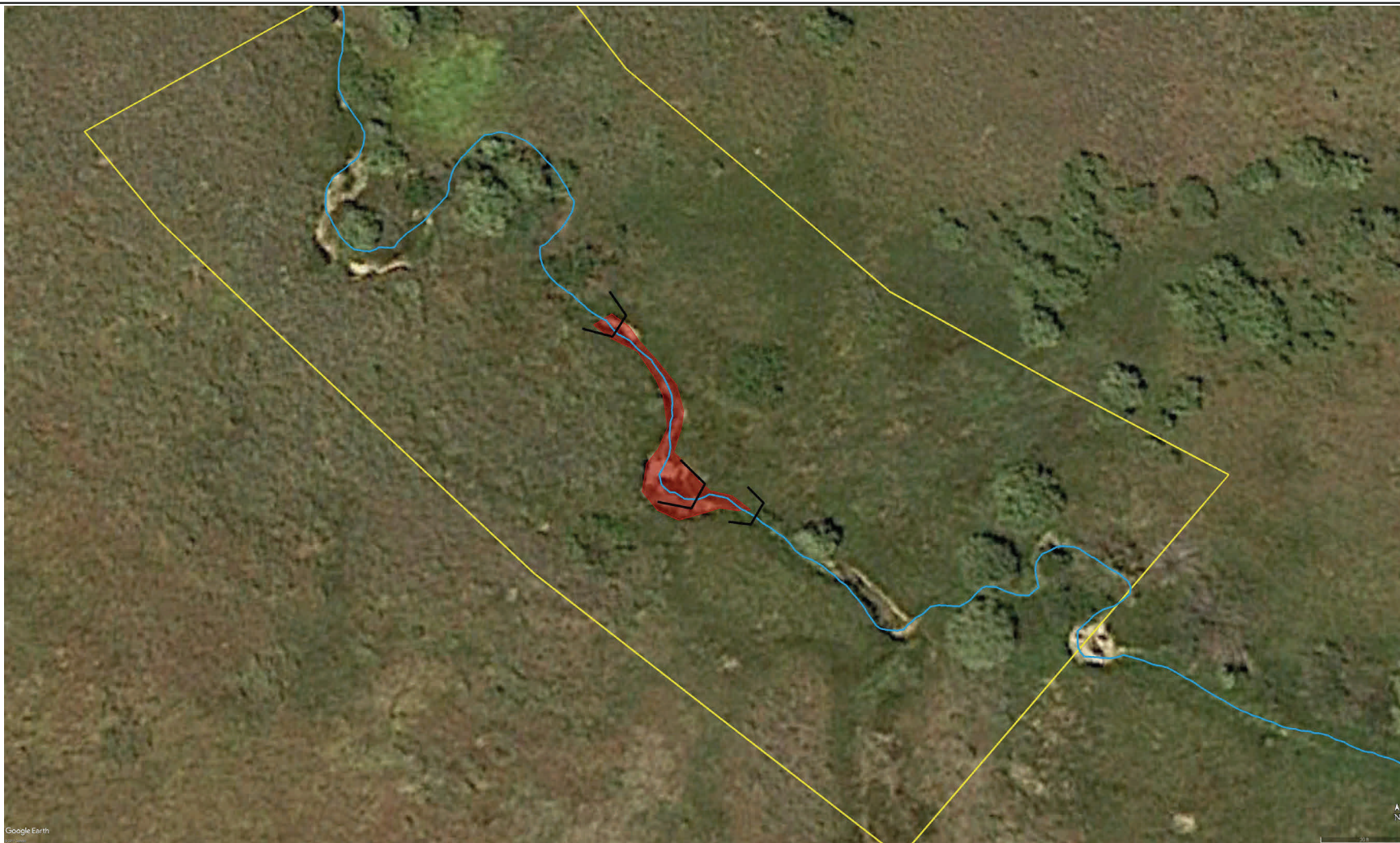
- Project area
- Temporary exclusion fencing
- Bio engineered check dam
- Recreational trail
- Riparian meadow infill planting

Truckee River Watershed Council  
 Implementation of Martis Mainstem and  
 Wildlife Area Wetland Restoration  
 Lookout Mountain Tributary



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**Legend:**

Project area



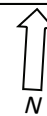
Channel fill



Buried log grade control



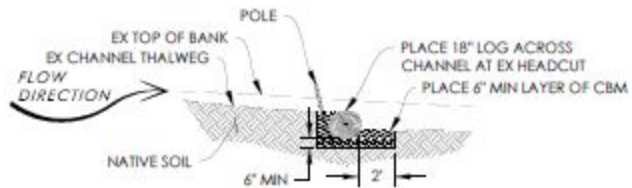
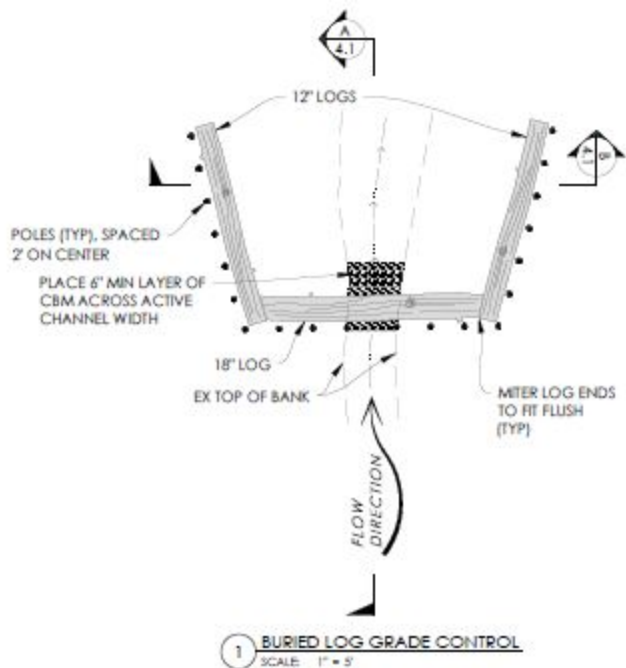
Truckee River Watershed Council  
Implementation of Martis Mainstem and  
Wildlife Area Wetland Restoration  
Middle Martis Creek Headcut



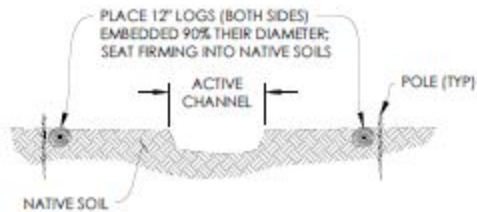
40 ft

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**BURIED LOG GRADE CONTROL**  
PROFILE VIEW  
1" = 5' A  
4.1



**BURIED LOG GRADE CONTROL**  
SECTION VIEW  
1" = 5' B  
4.1