

LOWE RIVER: 10 MILE MAINTENANCE

Update

09/15/21

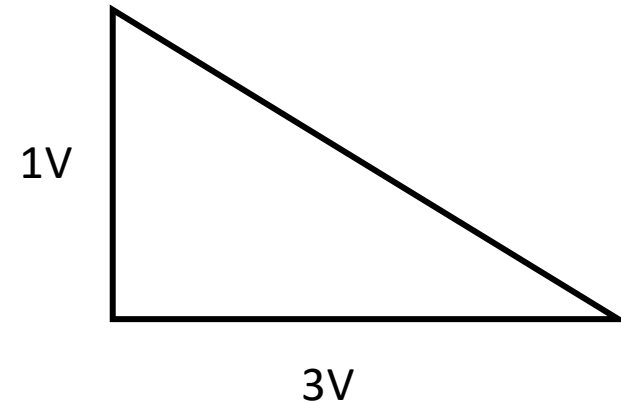


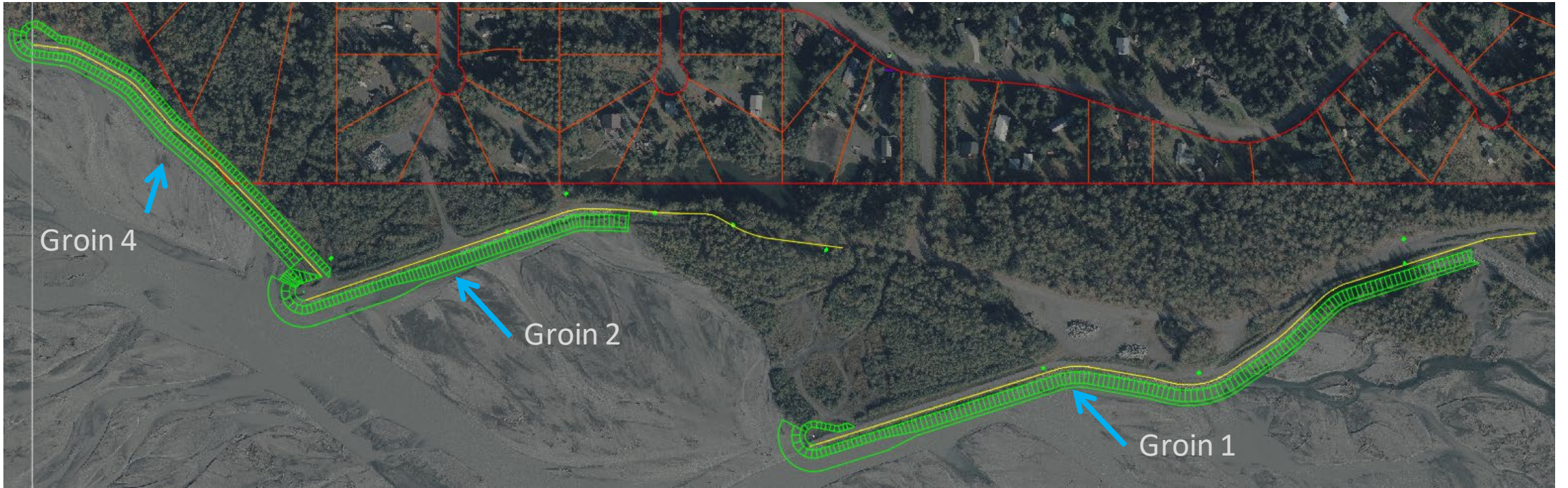
What this update includes:

- A** **Project Overview**
- B** **Highlight: Scour Prevention**
- C** **Project Update: Status and Next steps**

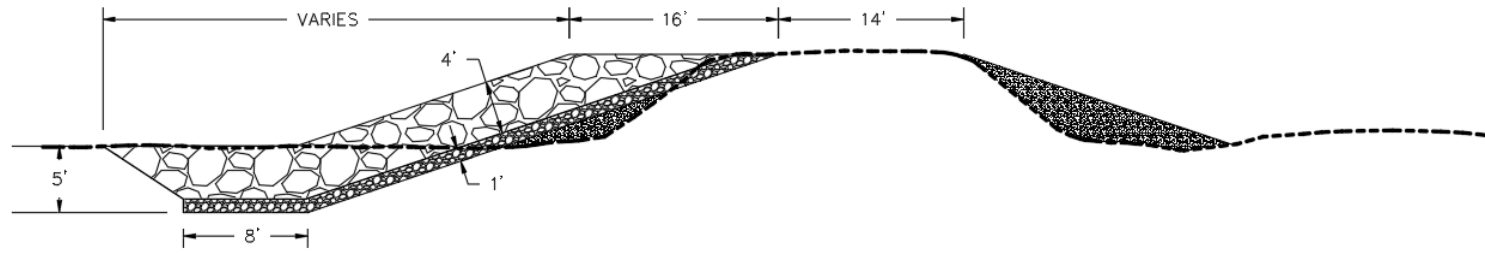
Project Overview

- Maintenance on Groin 1, 2 & 4
- Refacing of rock armor
 - Remove existing rock
 - Reestablish 3H:1V riverside slope
 - Place rock that is appropriately sized
- Scour Mitigation
 - Construct toe for the groins
 - Severe scour and rock loss seen at tips of Groin 1 and Groin 2
 - Scour apron and 'round head' tip designed using USACE design standards





Project Site Aerial



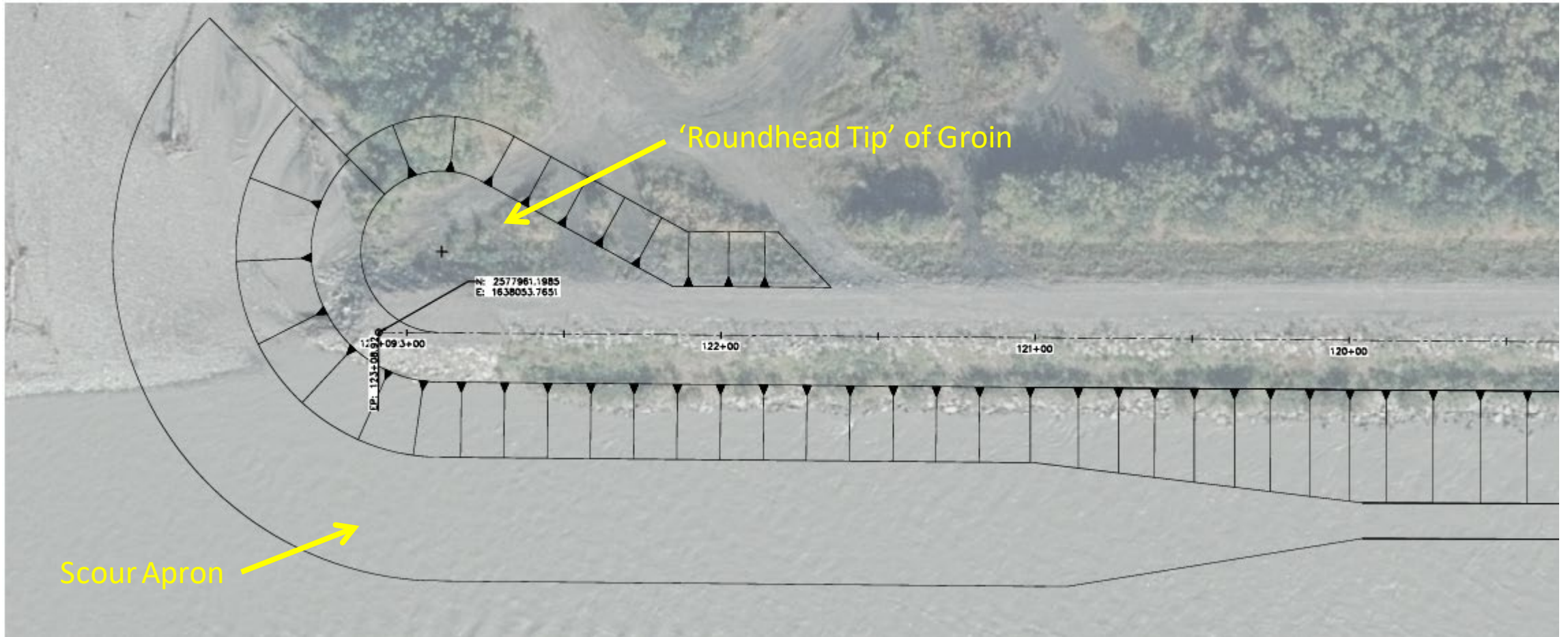
Typical Section

Scour Hole

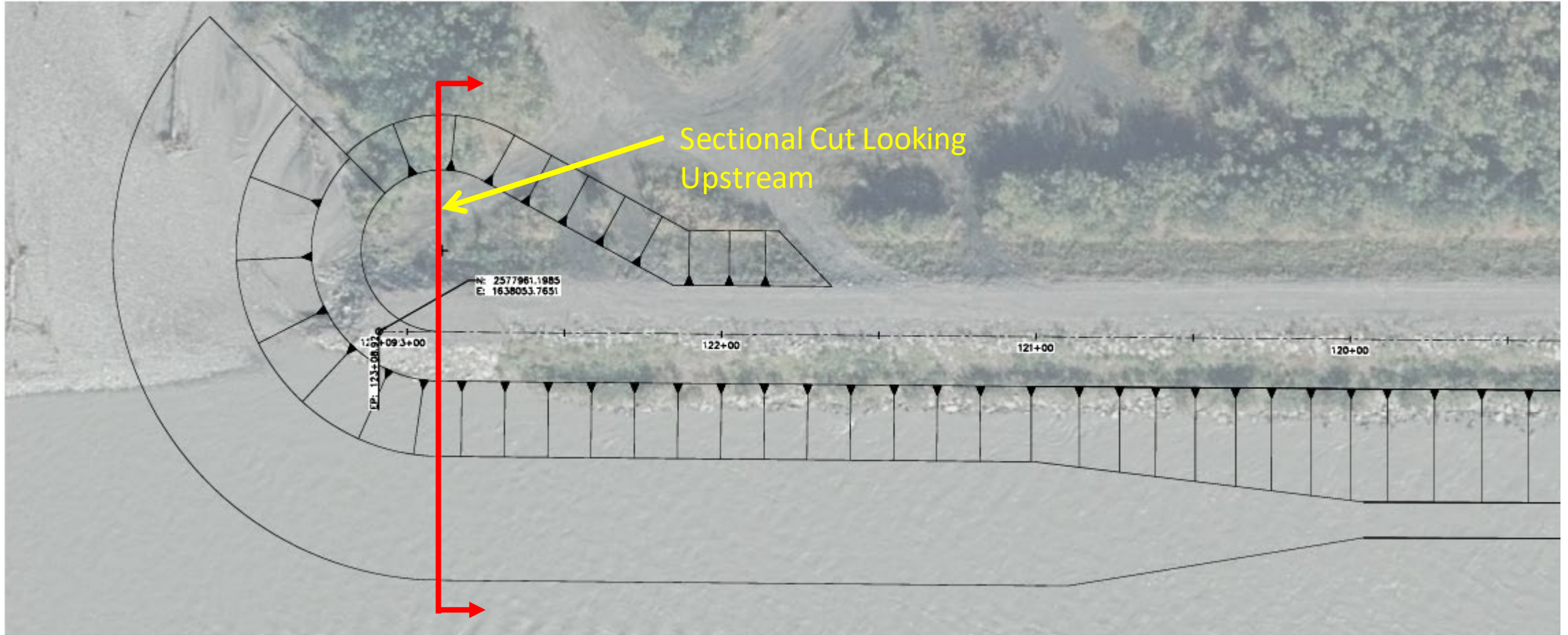
- Example: Tip of Groin 2
- Dimensions of scour hole:
 - Depth: 8+ feet
 - Width: 40 feet
 - Length: 93 feet



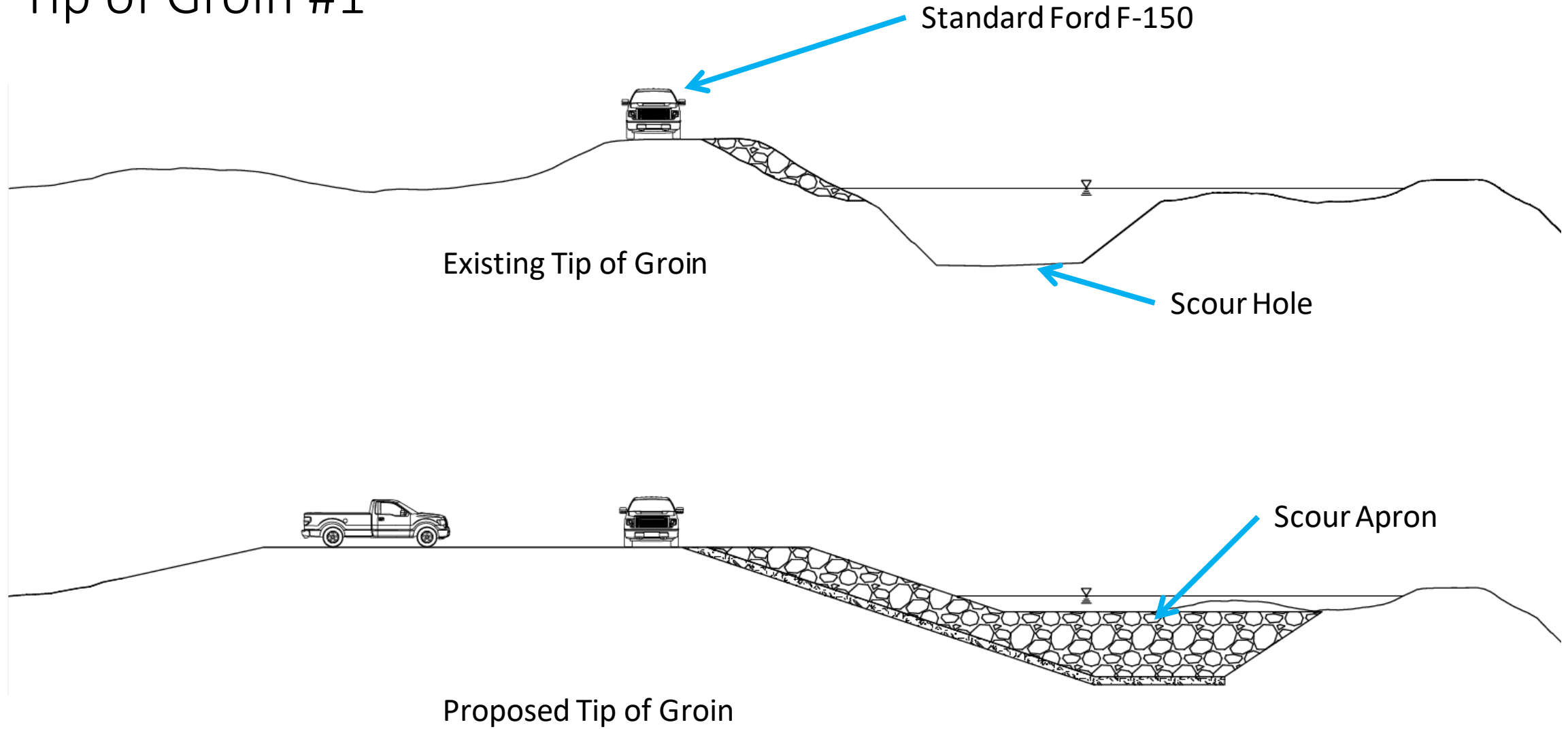
Tip of Groin #1



Tip of Groin #1



Tip of Groin #1



Groin #1

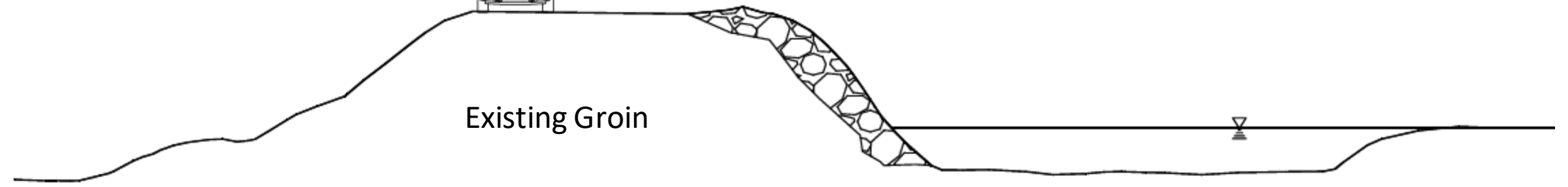


Groin #1

Standard Ford F-150

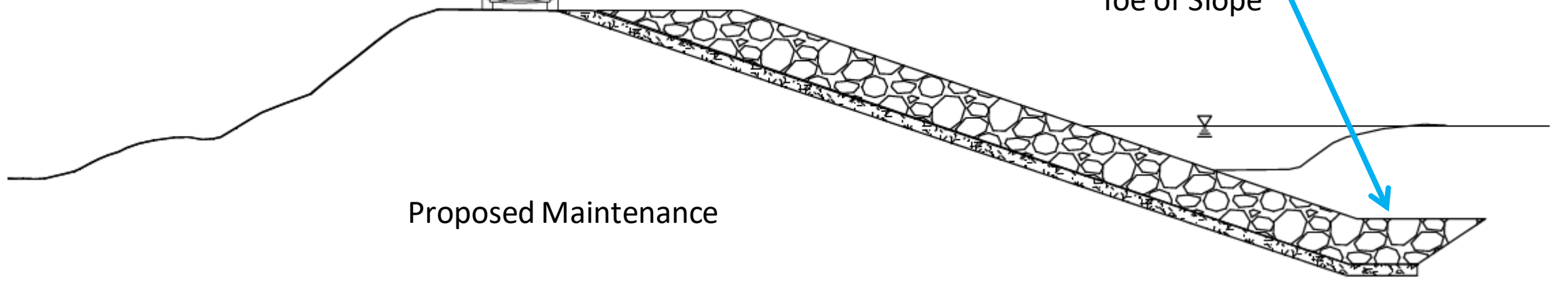


Existing Groin



Proposed Maintenance

Toe of Slope



Project Update

- Project Bid Awarded
 - Won by Harris Sand & Gravel
- Rock Production Underway
 - DOWL verified the rock production efforts on 08/09/2021
- Permits in Hand
 - ADF&G: In-water work can start after 10/31/2021
 - USACE: Maintenance work covered by Nationwide Permit
 - DNR: Groins are within Erosion Control Easement. Notified of work.
 - CoV: Floodplain Development Permit Granted
- Next Steps:
 - Pre-construction meeting
 - Notify public of work: Work sites are dangerous and are closed to the public
 - Mobilization