

# 2012 Tucannon River LWD Project Design

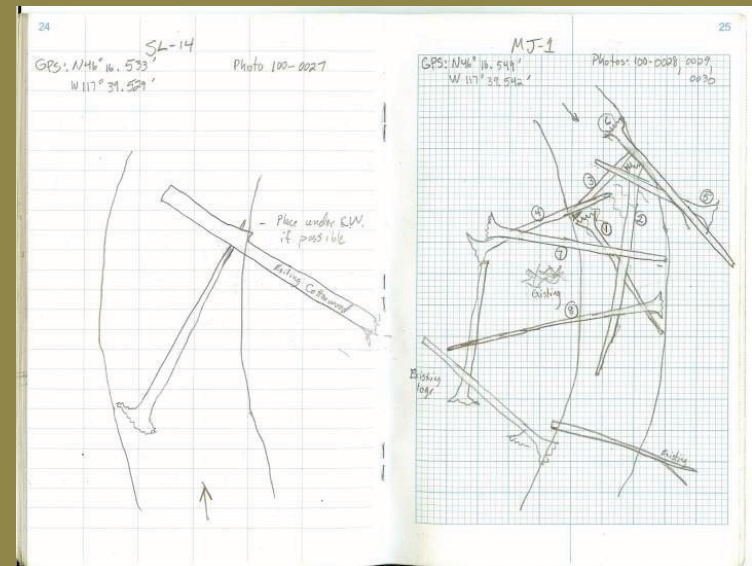


# Design Process Summary

## TCC/RTT Field Team Assessments and Total Station Surveys



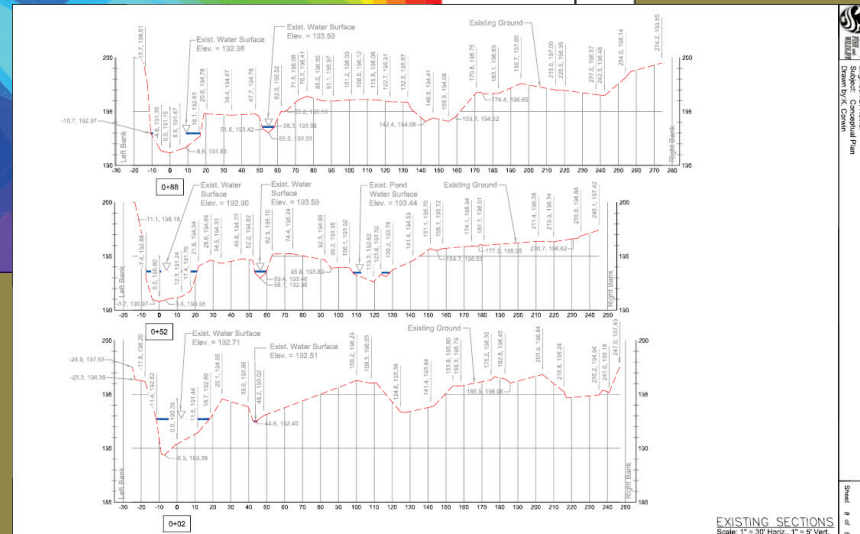
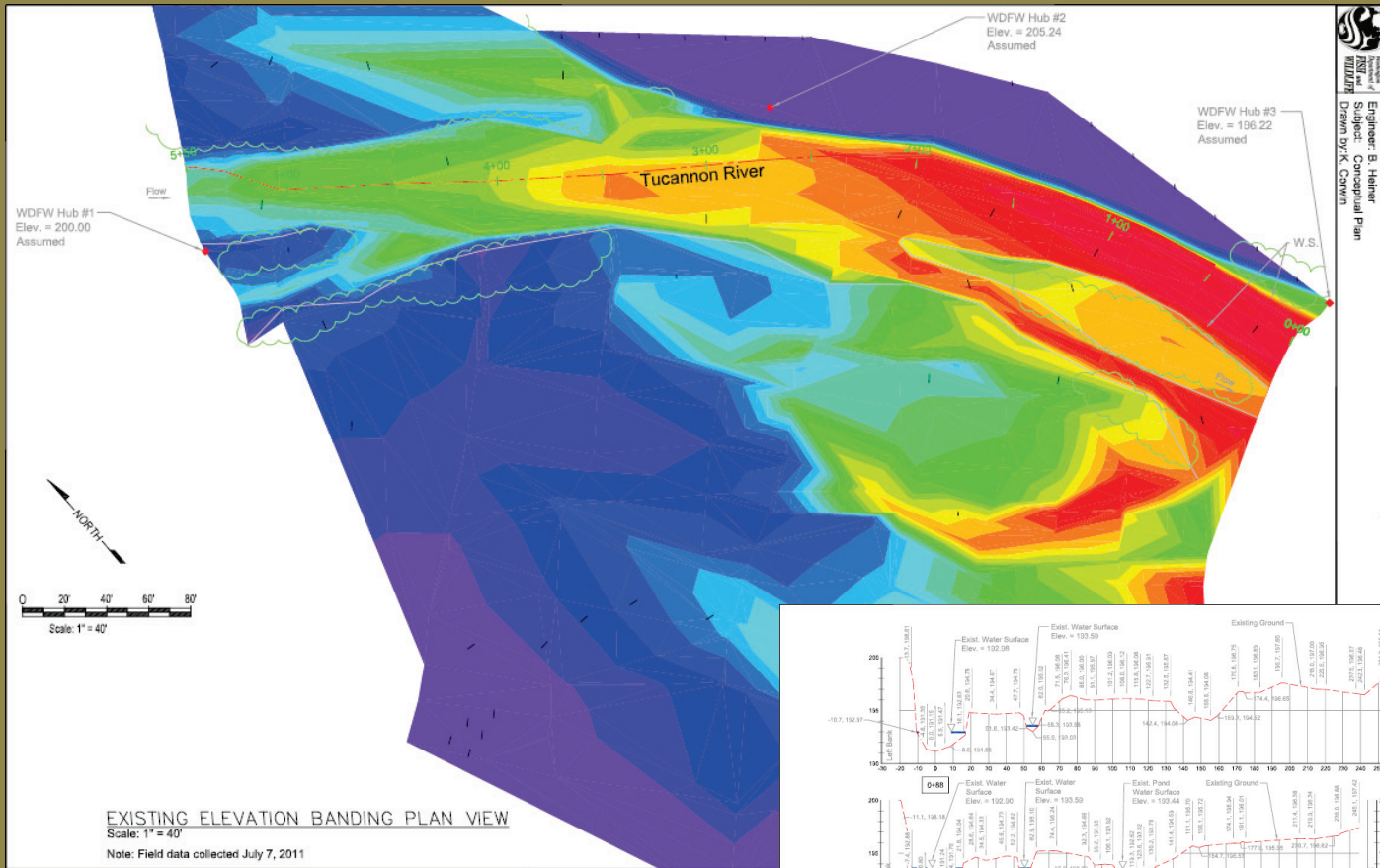
## Field Design Site Drawings



TCC/RTT Field Team : CTUIR Jim Webster, Eric Hoverson, Chris Fulton – SRSRB Steve Martin, Kris Buelow – USFS Del Groat, Billy Bowles – WDFW Bruce Heiner, Mark Grandstaff, Dave Karl.

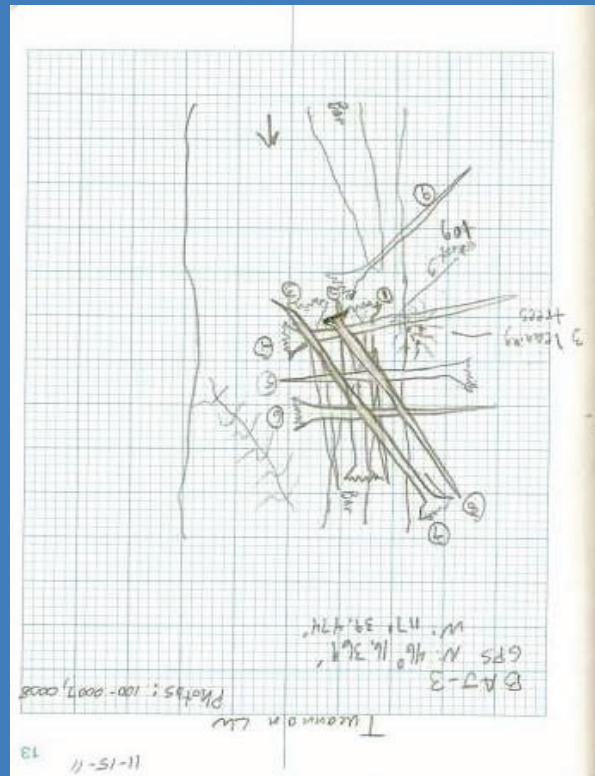


# Total Station Data Collected for Three Focus Areas: Developed Cross Section Elevations and Elevation Banding Plan View for Hec-Ras modeling and Project Engineering

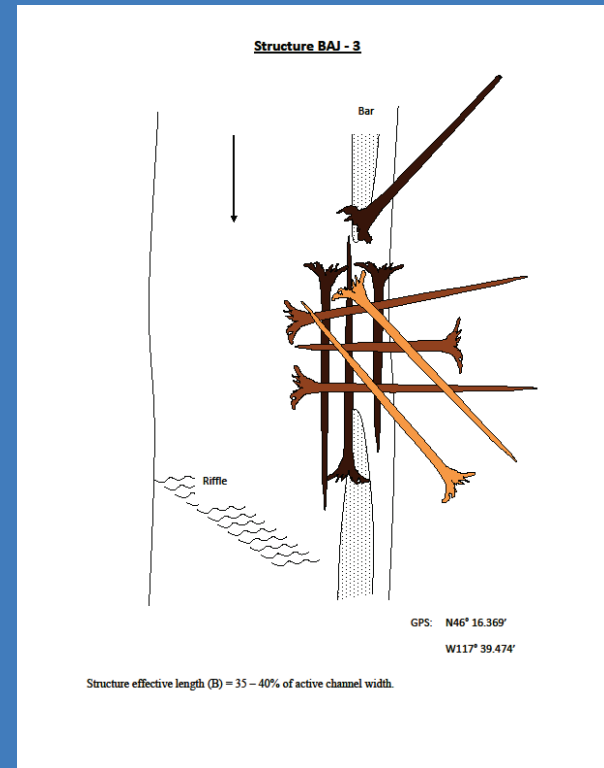


# Site Specific Designs

## Field Design Site Drawings

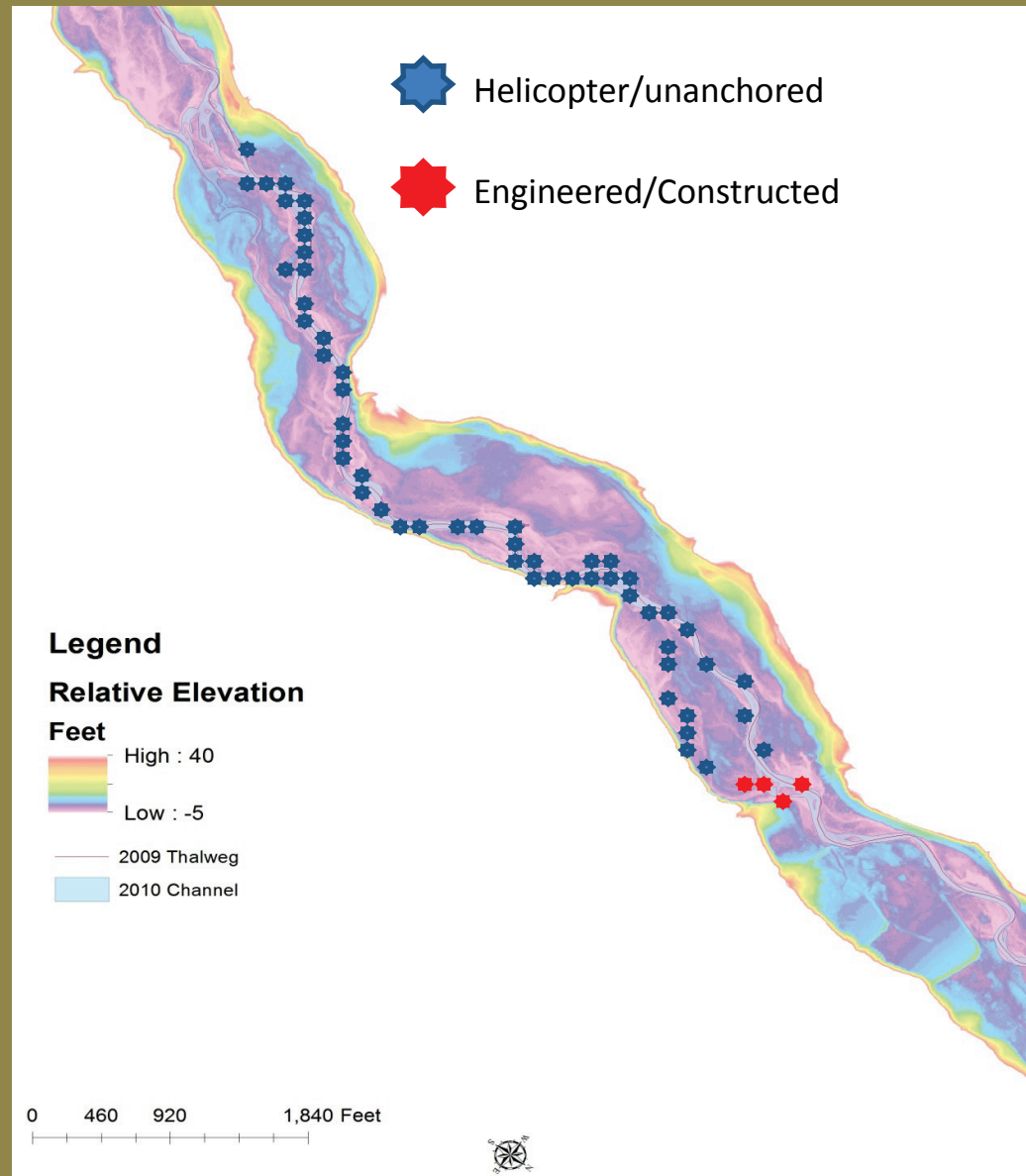


## Developed Final Design

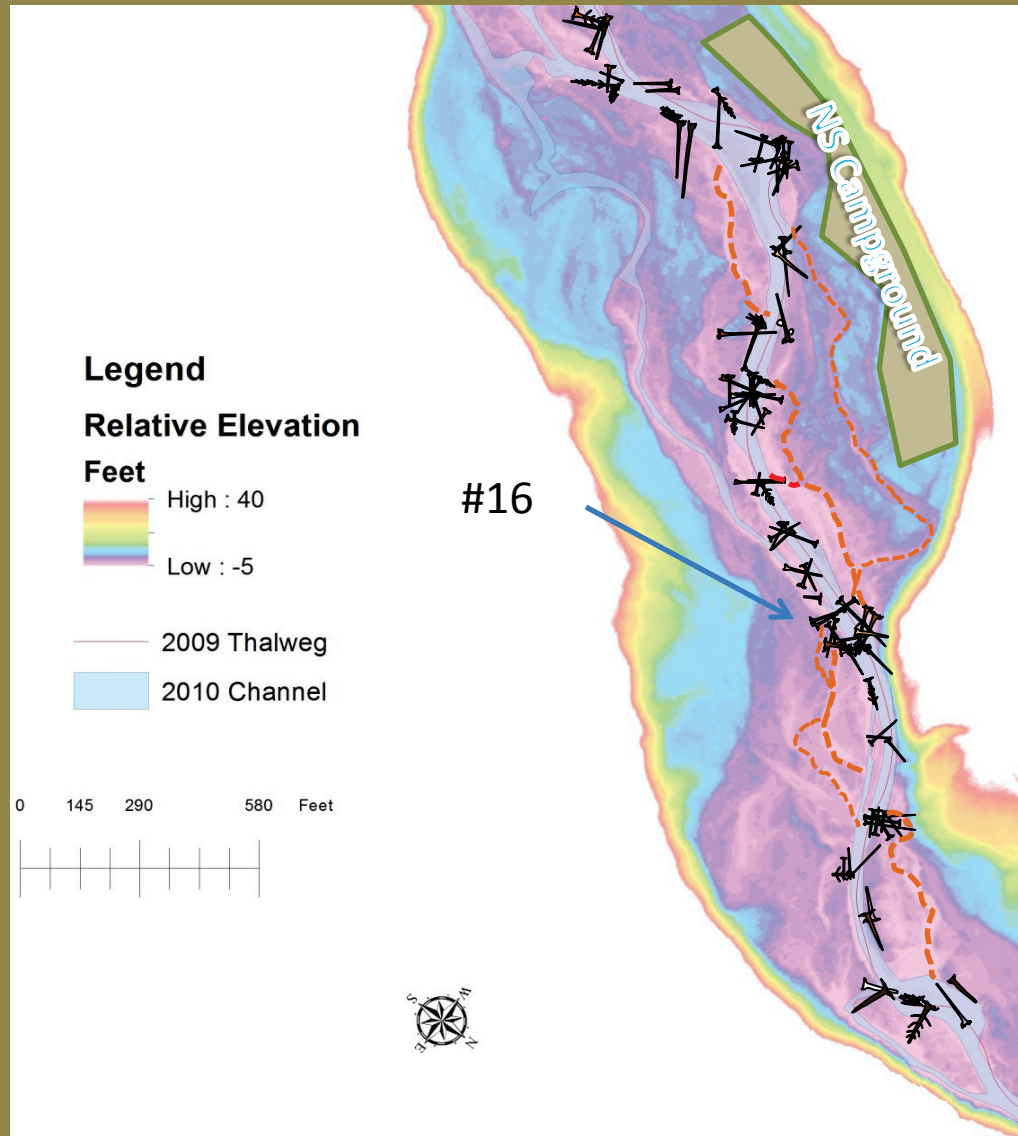


# Project Overview

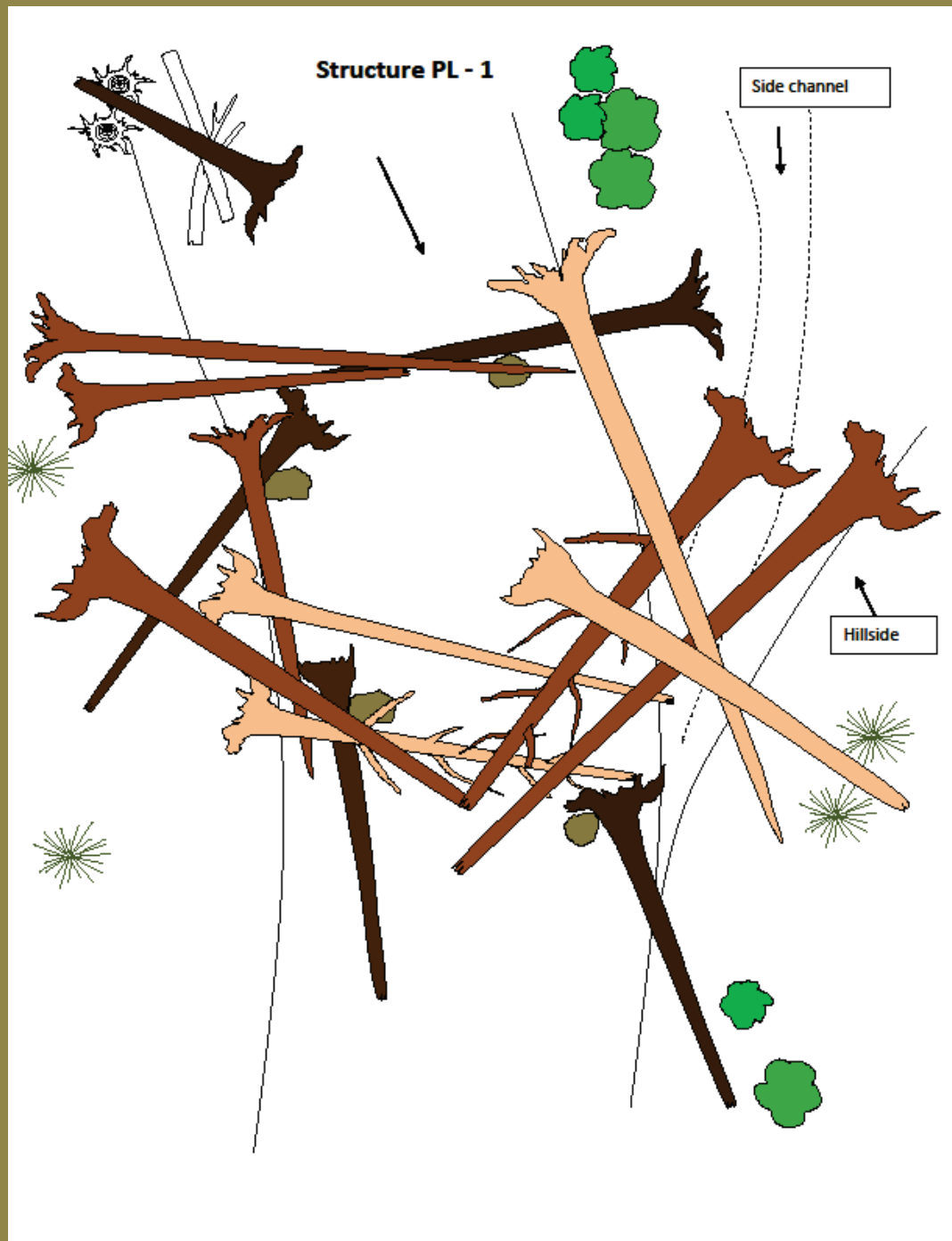
- 55 unanchored structures to be constructed with a Helicopter using whole trees with root-ball.
- 4 ELJ's constructed with logs trucked to the site, using 30'- 40' sections of a mix of medium and large trees.
- 220 logs needed for the 55 unanchored structures. Up to an additional 55 logs will be utilized randomly within the reach.
- Boulders will be utilized as "stand alone habitat elements" and in some of the unanchored LWD designs to assist with construction and provide additional structural elements.
- Unanchored LWD designs fall into 9 basic structures: Bar Apex Jam, Meander Jam, Spanning Log Jam, Plug, "T" log complex, Triangle log complex, Chevron, and Single log.
- Constructed LWD Structures include 2 types of ELJ's and 2 types of low profile floodplain debris structures.



# Upstream Reach - Structures 1-24



# #16 PL-1



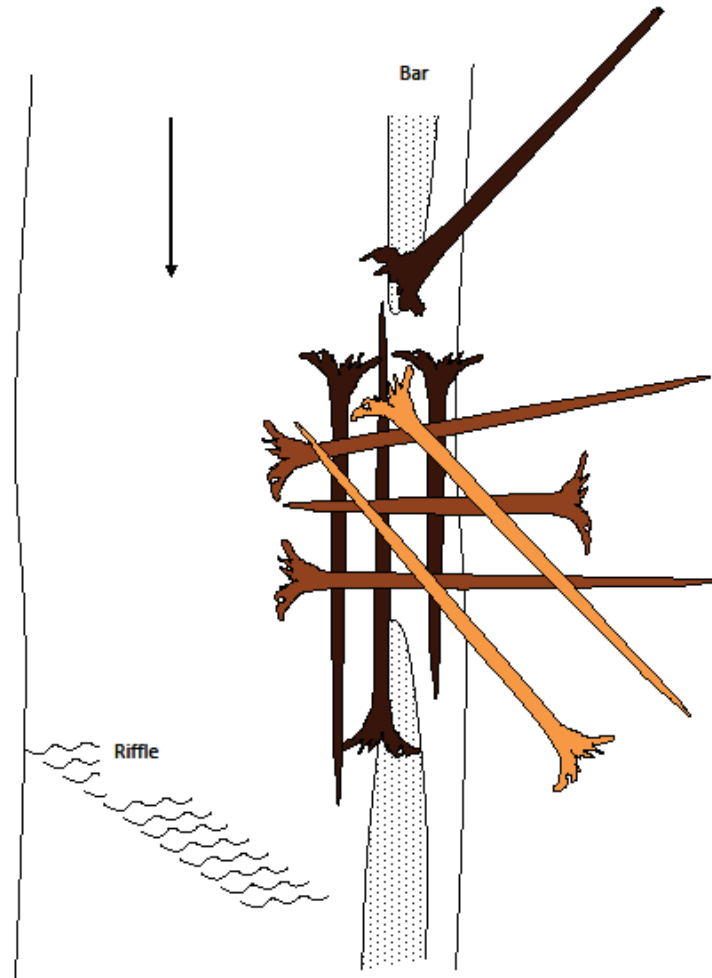






# #29 BAJ-3

## Structure BAJ - 3



GPS: N46° 16.369'

W117° 39.474'

Structure effective length (B) = 35 – 40% of active channel width.



# Structure BAJ-3



Effective length (B) = 35 – 40% of active channel width.

GPS: N46° 16.369'  
W117° 39.474'



# Questions or Comments

