

# MIMICKING BEAVERS

Jonathan AuBuchon, PE  
Regional Sediment Specialist

Hydrology and Hydraulics Branch  
Hydrology and Hydraulics Section

Albuquerque District  
May 2025



U.S. ARMY



US Army Corps  
of Engineers®







U.S. ARMY

# MIMICKING BEAVERS

2

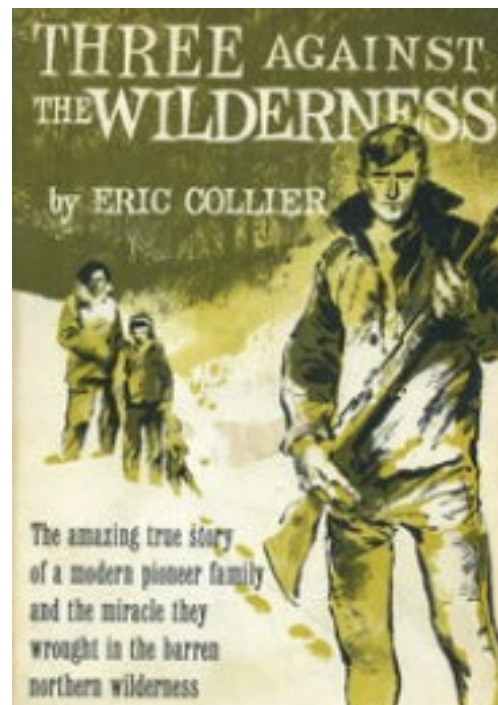
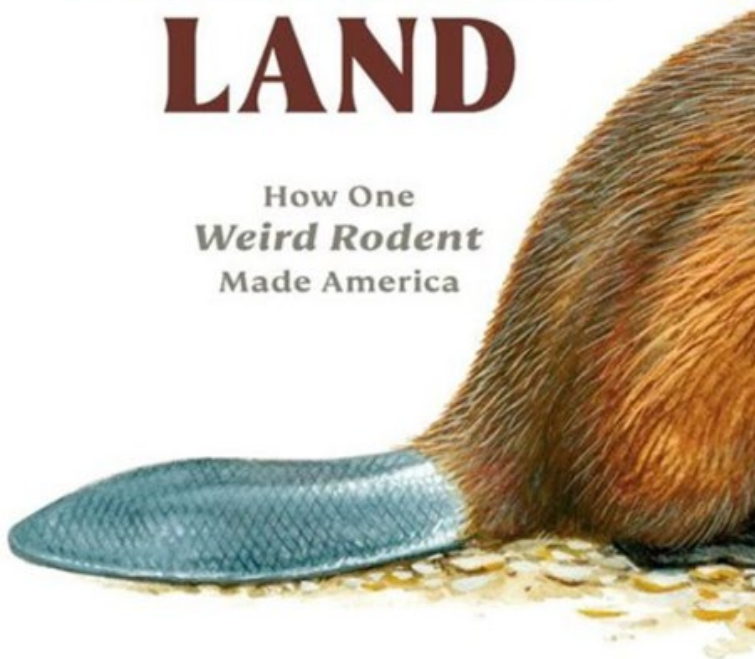


"Lyrically written, meticulously observed, and exhaustively researched, BEAVERLAND is going to break your heart—and then heal it with compassion, beauty, and wonder." —SY MONTGOMERY,  
*New York Times* bestselling author of *The Soul of an Octopus*

LEILA PHILIP

## BEAVER LAND

How One  
*Weird Rodent*  
Made America



## LOW-TECH PROCESS-BASED RESTORATION OF RIVERSCAPES DESIGN MANUAL



Edited by: Joseph M. Wheaton, Stephen N. Bennett, Nicolaas Bouwes, Jeremy D. Maestas & Scott M. Shahverdian





U.S. ARMY



# MIMICKING BEAVERS

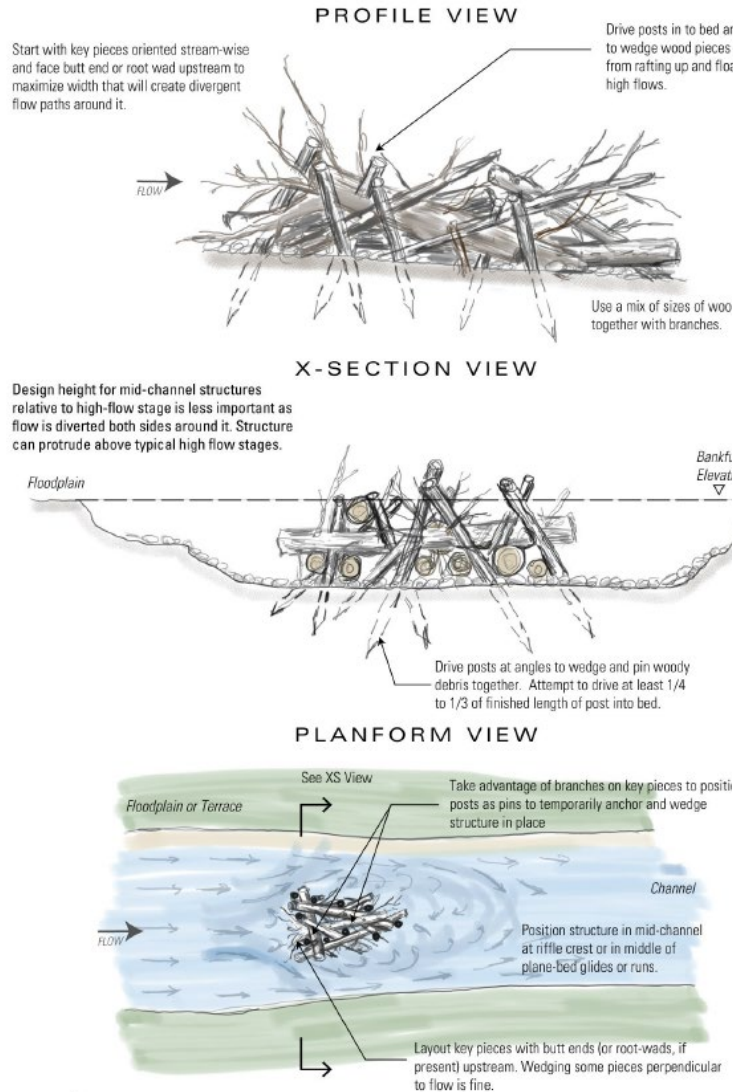


Figure from Wheaton et al. 2019 for mid-channel PALS

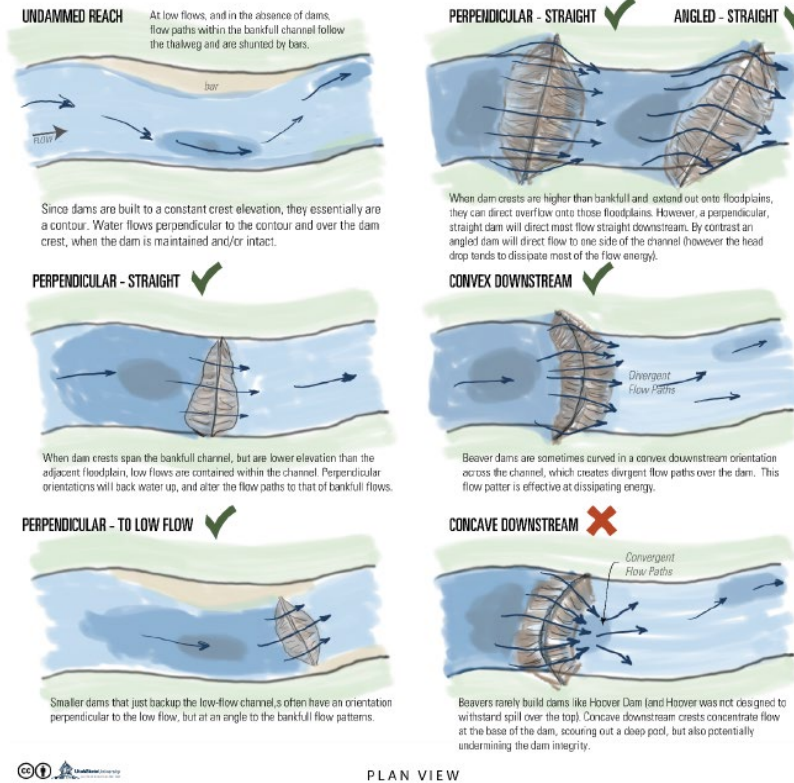


Figure from Wheaton et al. 2019 for BDAs

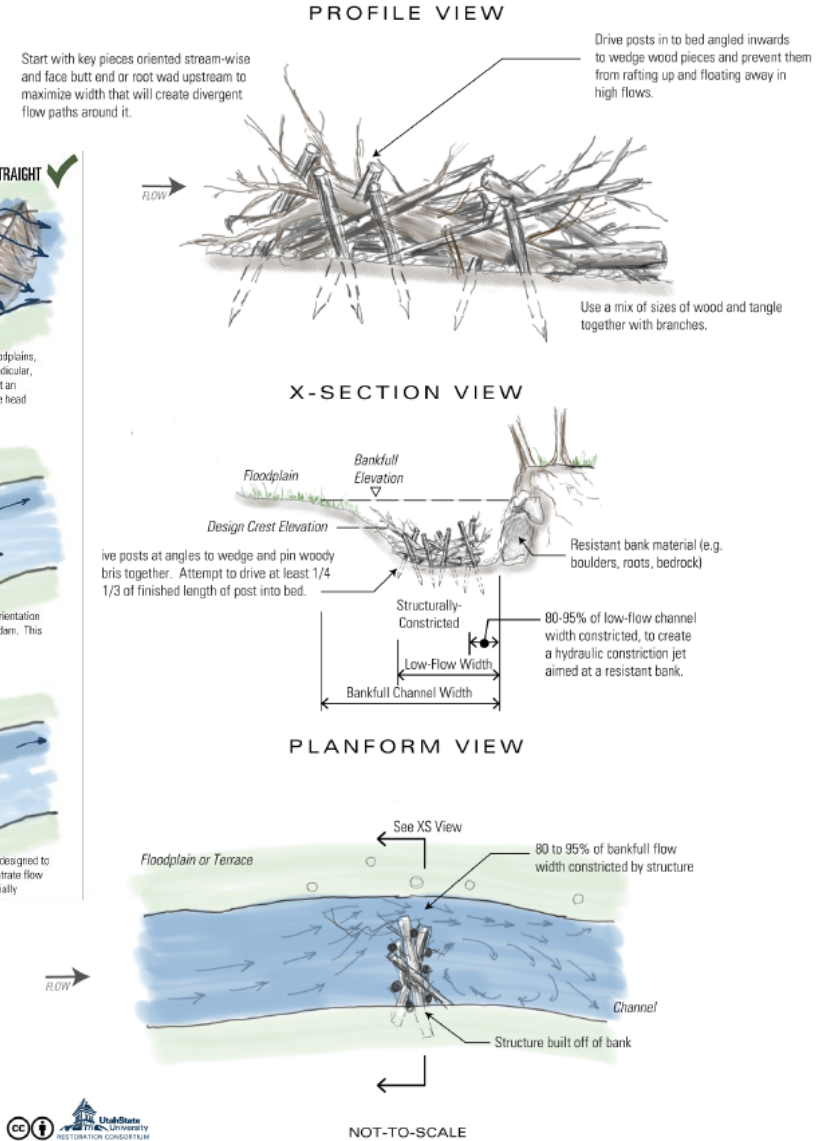


Figure from Wheaton et al. 2019 for bank-attached PALS

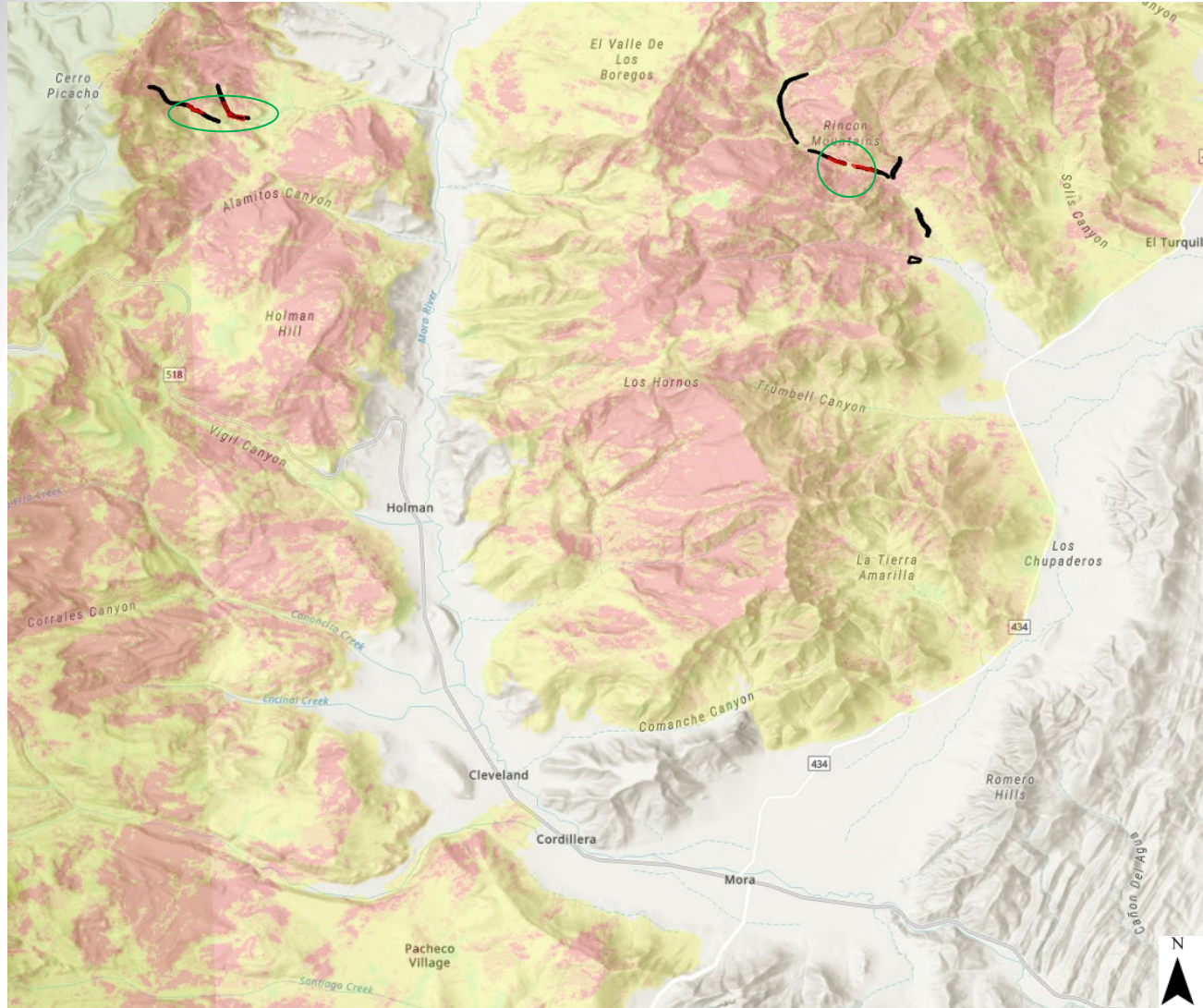




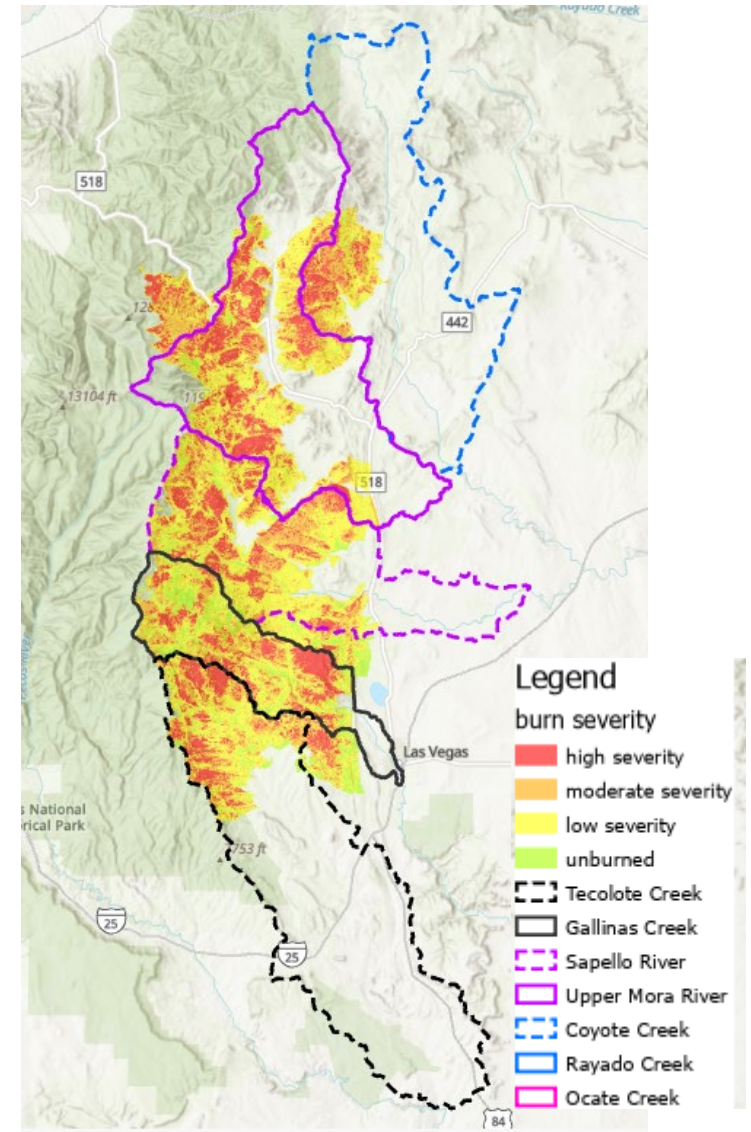
U.S. ARMY

# MIMICKING BEAVERS

4



Soil burn severity maps with prelim/final PALS locations



Soil burn severity maps produced for the Hermit's Peak/Calf Canyon fires





U.S. ARMY

# LOS ALAMITOS SITE 3

5



18 September 2023







U.S. ARMY

# CANADA DEL CARRO

6



18 September 2023



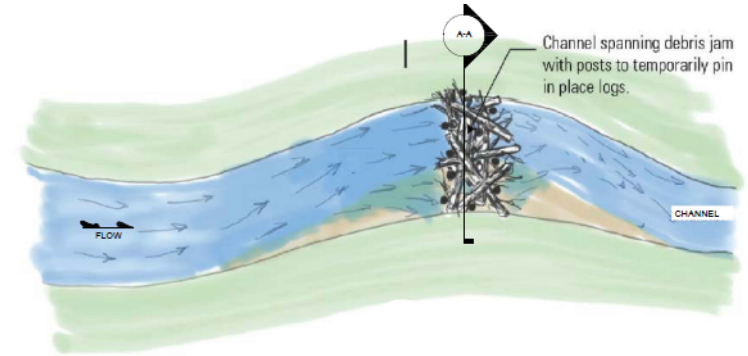
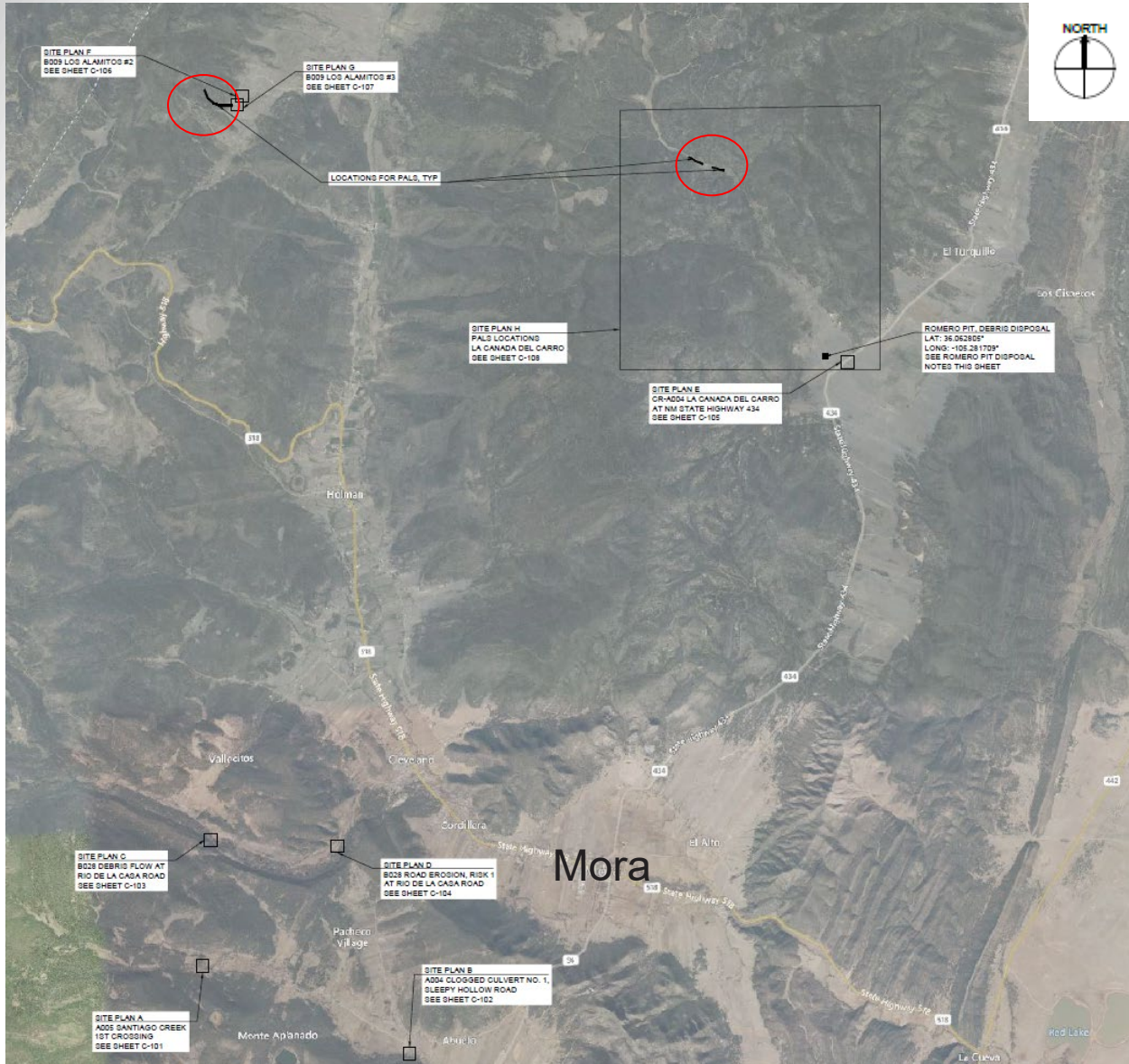




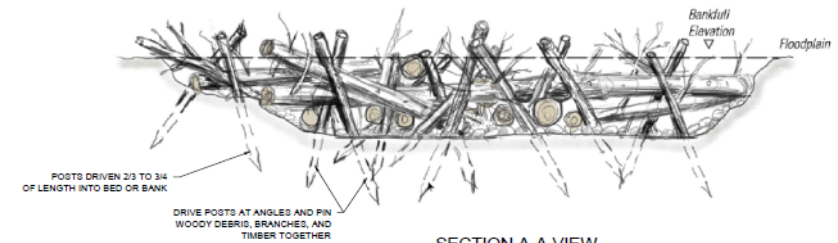
U.S. ARMY

# MIMICKING BEAVERS

7



PLAN VIEW



SECTION A-A VIEW



PROFILE VIEW

## C12 DETAIL - POST ASSISTED LOG STRUCTURE (PALS) SCALE: NOT TO SCALE

- POST ASSISTED LOG STRUCTURE NOTES:
1. DETAILS SHOWN ABOVE ARE FOR CHANNEL SPANNING, BUT THE PALS MAY BE BANK ATTACHED OR MID-CHANNEL, AS DETERMINED BY THE COR.
  2. REFER TO TECHNICAL SPECIFICATIONS FOR SPECIFIC INSTALLATION GUIDANCE.





U.S. ARMY

# LOS ALAMITOS SITE 3

8



29 September 2023







U.S. ARMY

# CANADA DEL CARRO

9







U.S. ARMY

# LOS ALAMITOS SITE 3

16 November 2023



3 October 2023  
Photos by Erin Larivee







U.S. ARMY

# CANADA DEL CARRO

11



3 October 2023

Photos by Erin Larivee



16 November 2023

