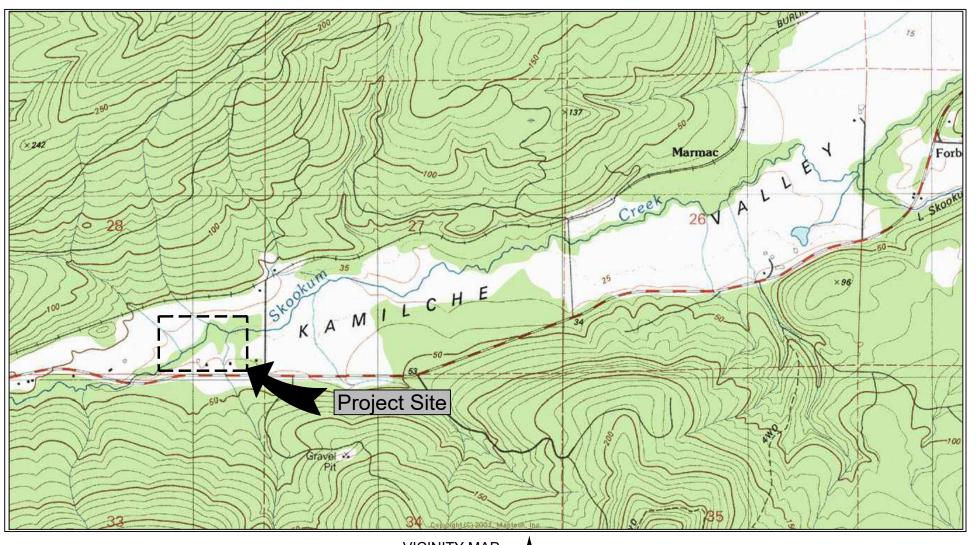
Construction Documents

Skookum Creek RM 6.5 - Restoration

Project Number 20-1090



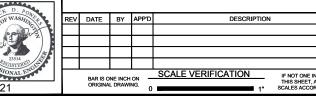
DRAWING INDEX:

- 1. Cover Sheet
- 2. Legend and Notes
- 3. Existing Site Plan/Aerial
- 4. Construction Access Plan
- 5. Proposed Site Plan Upper
- 6. Proposed Site Plan Lower
- 7. Side Channel Reconnection
- 8. Side Channel/Tributray Sections and Profiles
- 9. Main Channel Profile/Sections
- 10. Sections Main Channel
- 11. LWD Trapping Structures
- 12. LWD Complexity Structure
- 13. Loose Wood Placement









DESIGN BY: DRAWN BY: DATE:

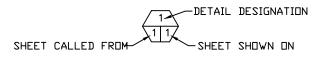
Cover

SHEET

SHEET SYMBOLS

ABBREVIATIONS

LEGEND



DETAIL CALLOUT

-SECTION DESIGNATION SHEET CALLED FROM SHEET SHOWN ON **SECTION CALLOUT**

-PROFILE DESIGNATION SHEET CALLED FROM SHEET SHOWN ON PROFILE CALLOUT

> FLOV References to Right and Left as viewed downstream

FEET APPROX. _ APPROXIMATELY BALLED AND BURLAPPED B&B BENCH MARK CENTERLINE CALIPER CUBIC FEET PER SECOND CFS CLEARANCE CORRUGATED METAL PIPE CMP CONC. DIAMETER ELEV. EQUAL - FOOTING FTG.

INCHES

CONCRETE ELEVATION - HIGH DENSITY **HDPE** POLYETHYLENE HEIGHT GAL. GALLON INSIDE DIAMETER I.D. INVERT ELEVATION POUNDS LBS.

LARGE WOODY DEBRIS LWD MAX. MAXIMUM MFG. MANUFACTURER'S

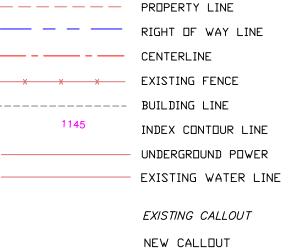
MHW MEAN HIGH WATER MEAN HIGHER HIGH WATER MHHW MINIMUM MIN. MISC. MISCELLANEOUS

MISC. MISCELLANEOUS MPH MILES PER HOUR 0.C. ON CENTER OUTSIDE DIAMETER 0.D. OHW ORDINARY HIGH WATER PΚ PARKER-KALON RIGHT OF WAY R.O.W. REQUIRED REQ'D SEC. SECTION S.F. SQUARE FEET

SHT. SHEET SPEC'S. PROJECT SPECIFICATIONS STA. STATION STAINLESS STEEL SS TEMP. **TEMPORARY**

TYPICAL TYP. WATER SURFACE W.S. **WSDOT** WASHINGTON STATE DEPARTMENT OF **TRANSPORTATION**

 WATER SURFACE ELEVATION WSEL



SURVEY POINT

EXISTING TREES TO REMAIN

BM1 PROJECT BENCH MARK

SANDBAGS

2+00

NOTE CALLOUT STATION CALLOUT

BORING LOCATIONS

PHOTO CALLOUT

SET CONTROL POINT POWER POLE MANHOLE UTILITY CABINET LIGHT POST TREE WATER VALVE **DWNERSHIP REFERENCE**

FILL

DEMO



ROCK/GRAVEL

CONCRETE



UNDISTURBED GRADE

WETLAND DELINEATION

FOUND SURVEY MONUMENT





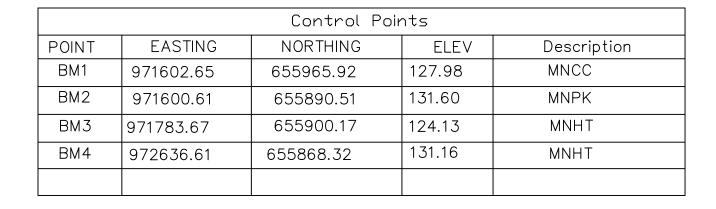
ELEVATION MARKER



TREE TO BE REMOVED



TREE TO REMAIN

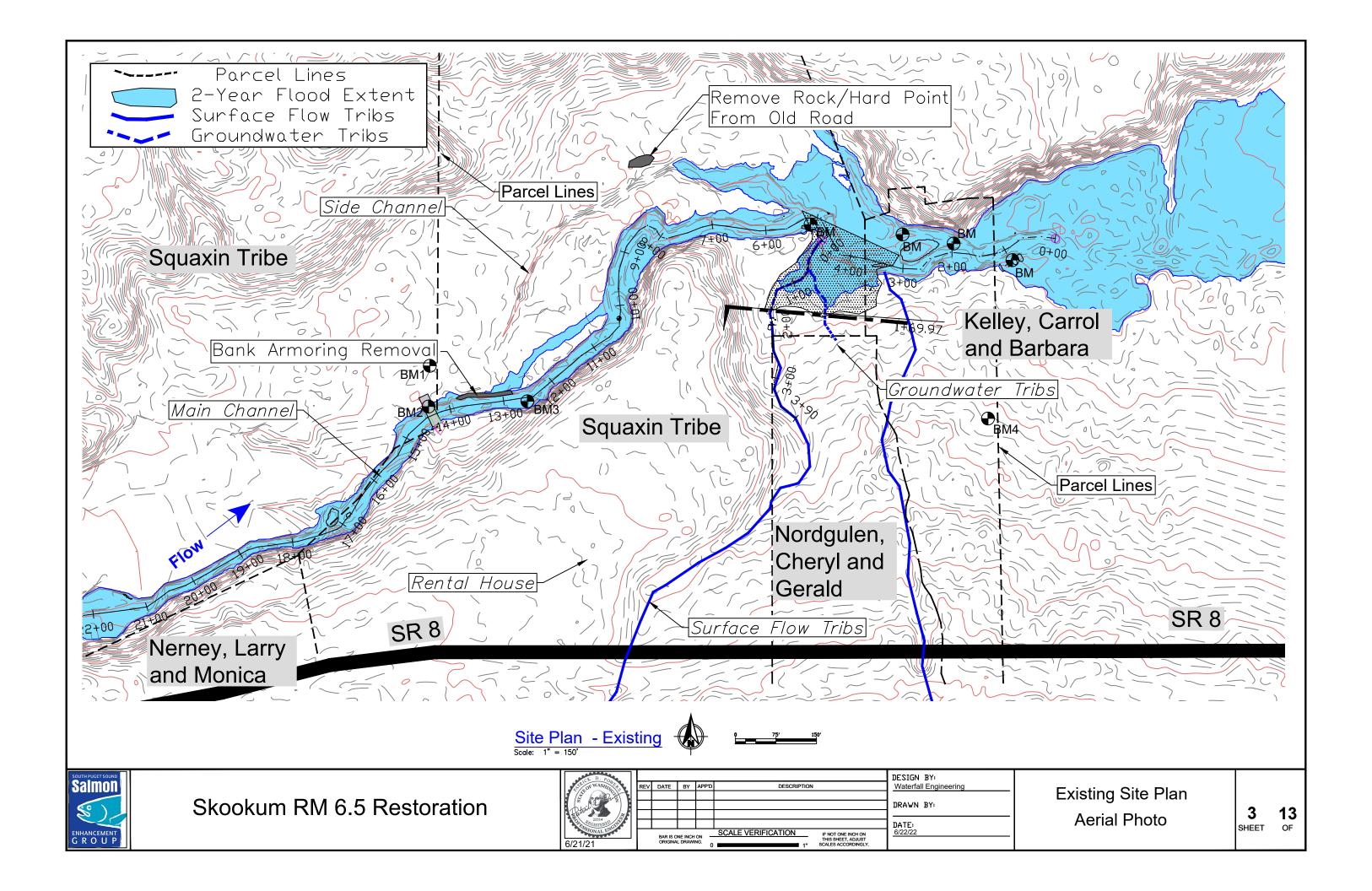


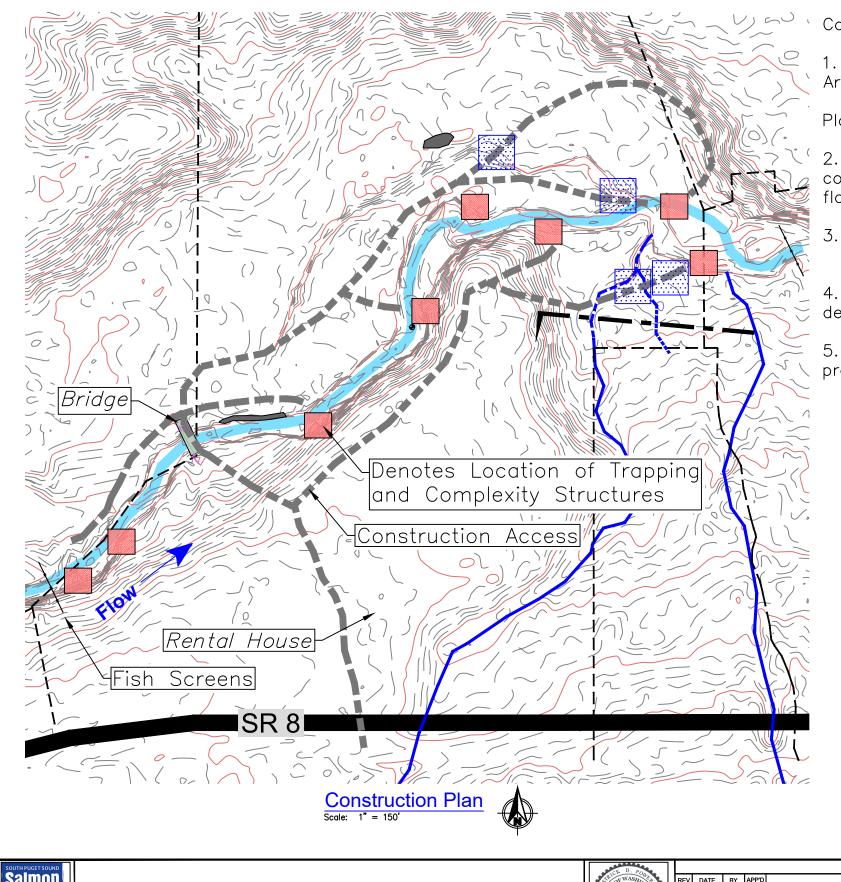
Contours are From DNR LiDAR data with Channel and

Side Channel Corrected with Survey by M2 Coast.



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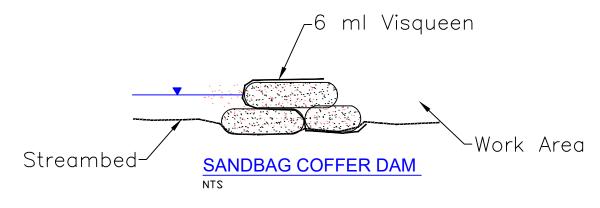


Construction Notes:

1. Access Roads are Shown ■■■ to Locations of Major Work Areas. Some side Temporary Access Need for Loose Wood

Placement.

- 2. Bank Excavation within the flowing water will require construction of a sandbag coffer dam to isolate work area from flowing water.
- Wetland and Stream sensitive areas require logs mattress placed across area to minimize disturbance.
- 4. Loose wood placement may occur in flowing water without dewatering after fish removal.
- 5. Fish Screens to be installed and fish removed from project reach.





Skookum RM 6.5 Restoration

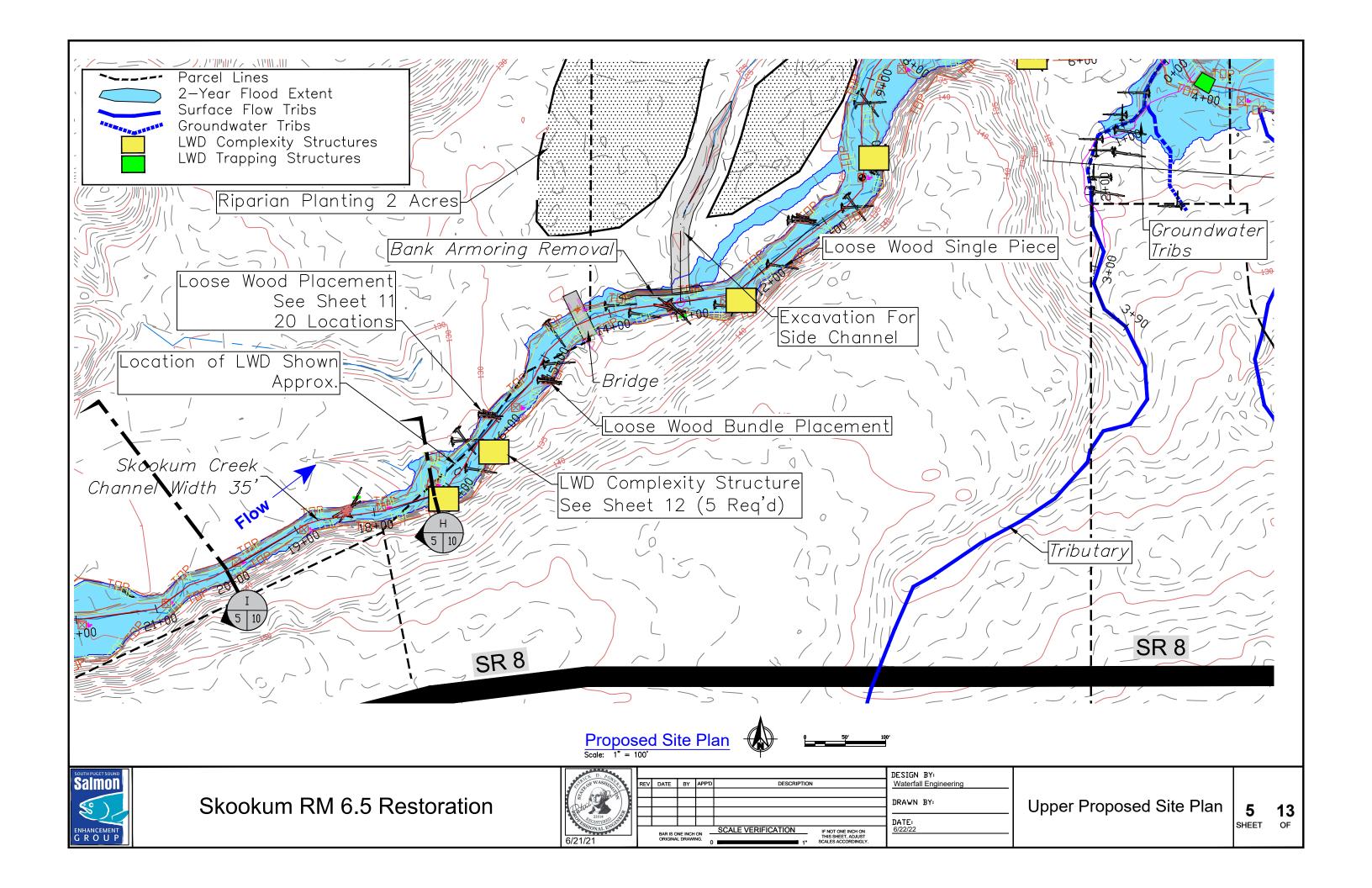


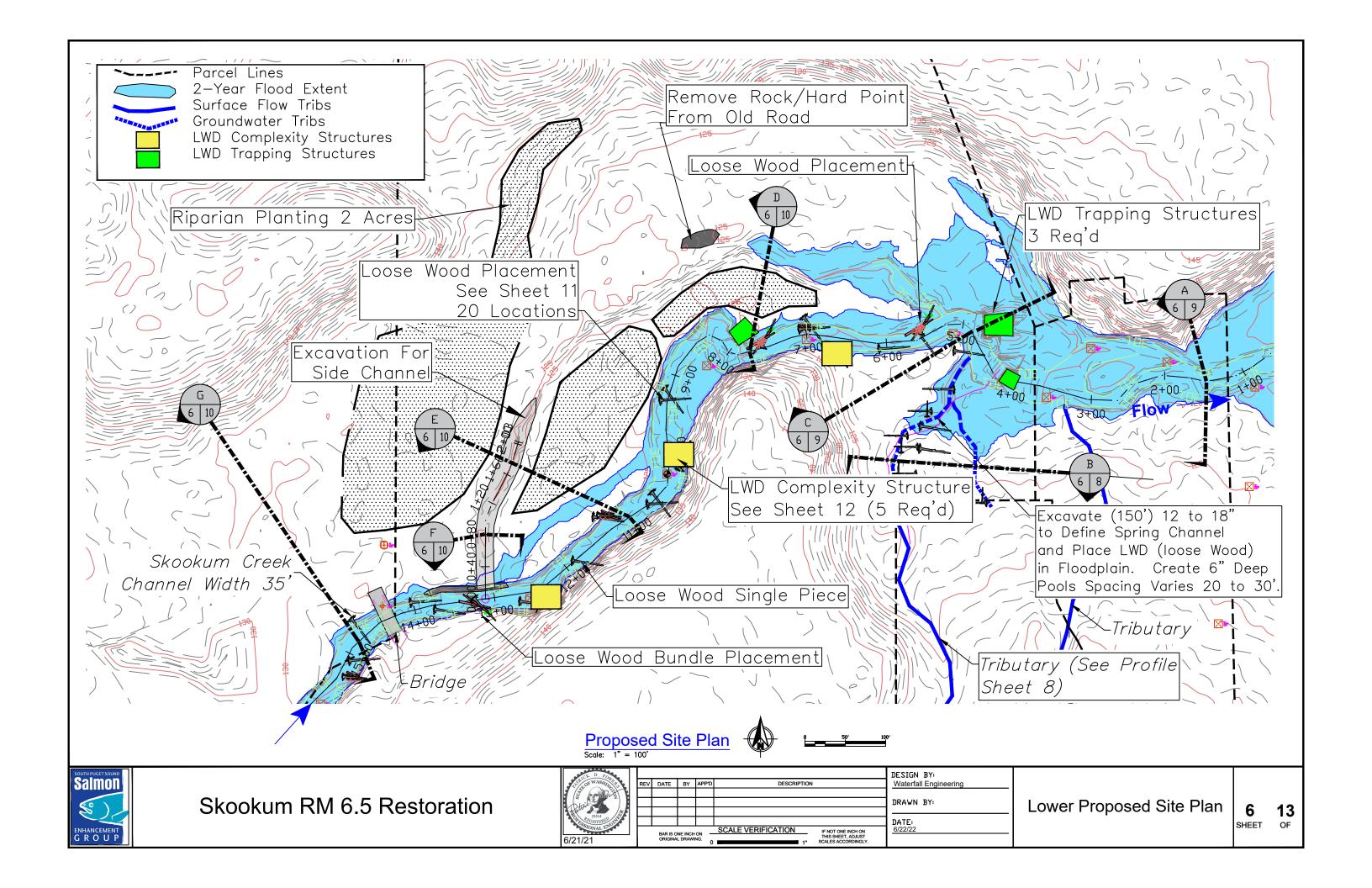
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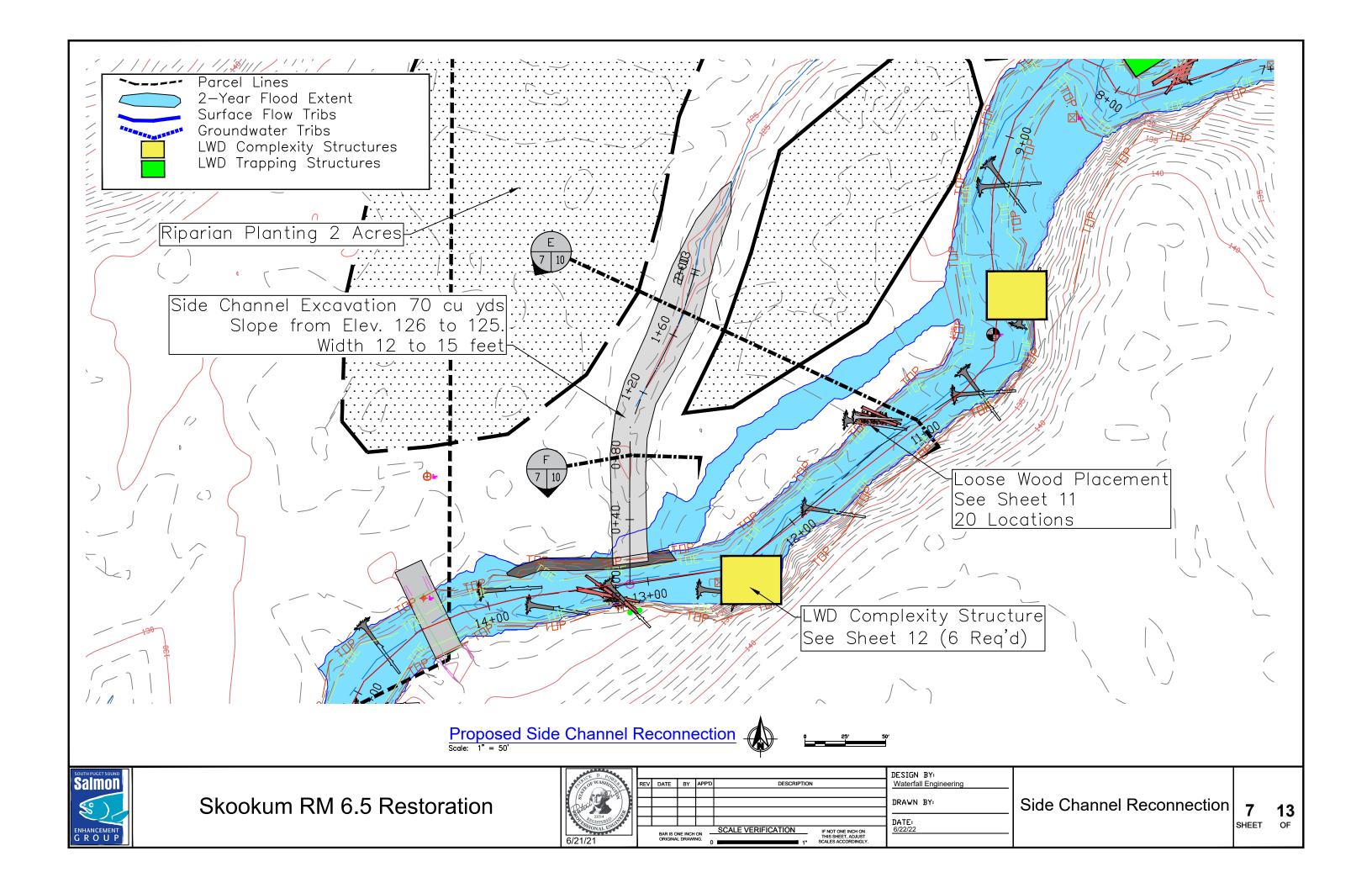
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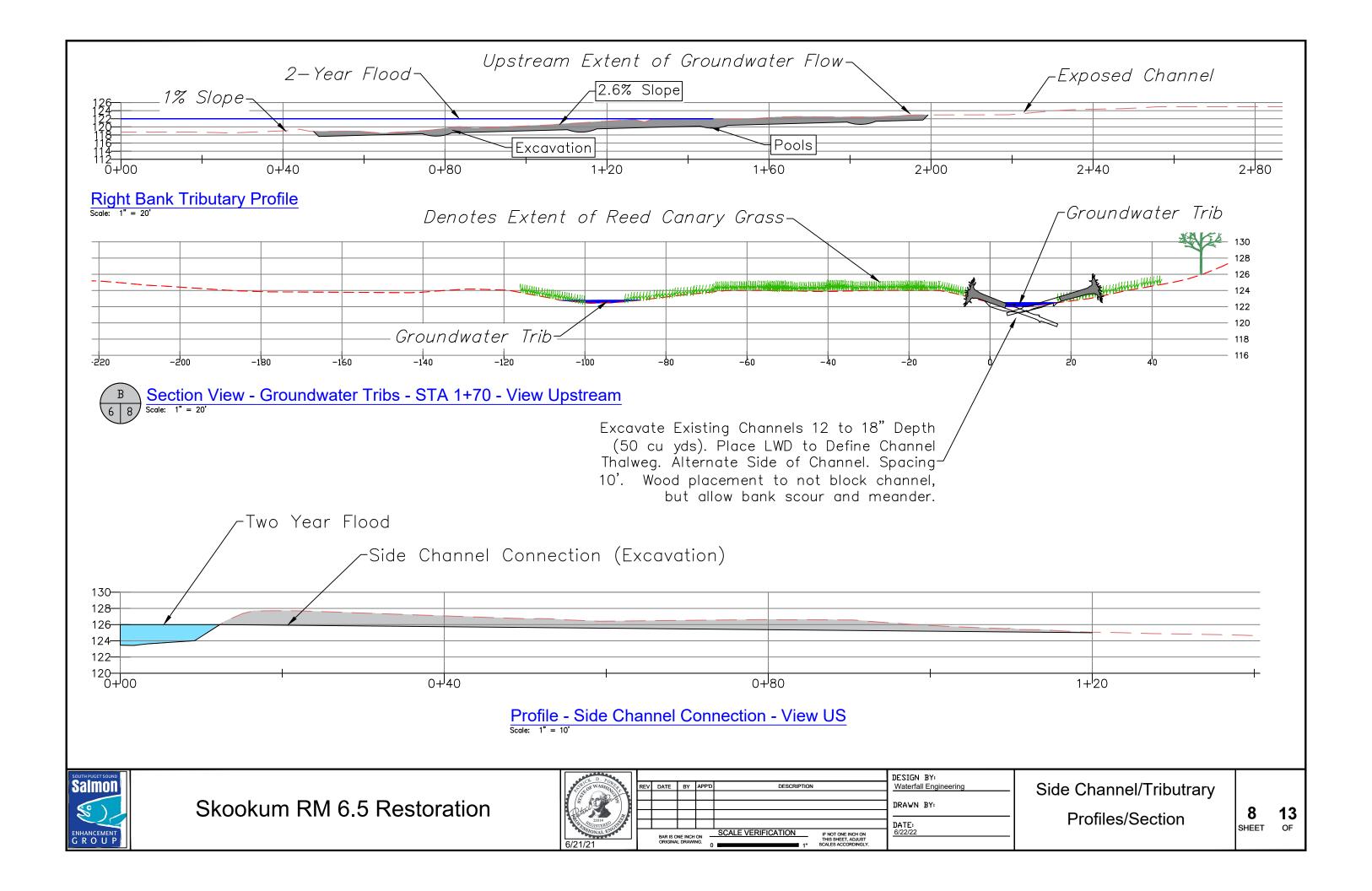
Construction Access Dewatering Plan

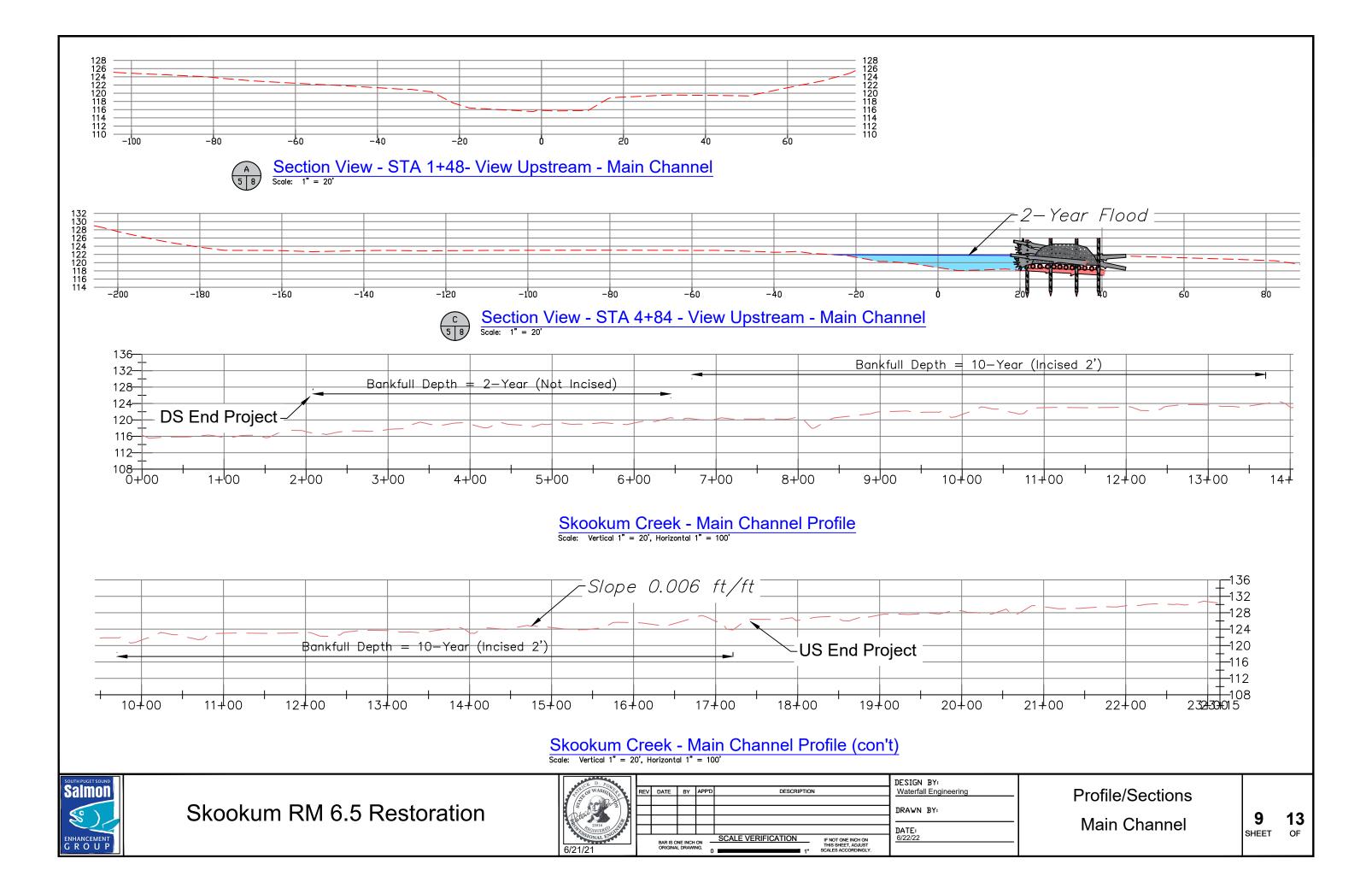
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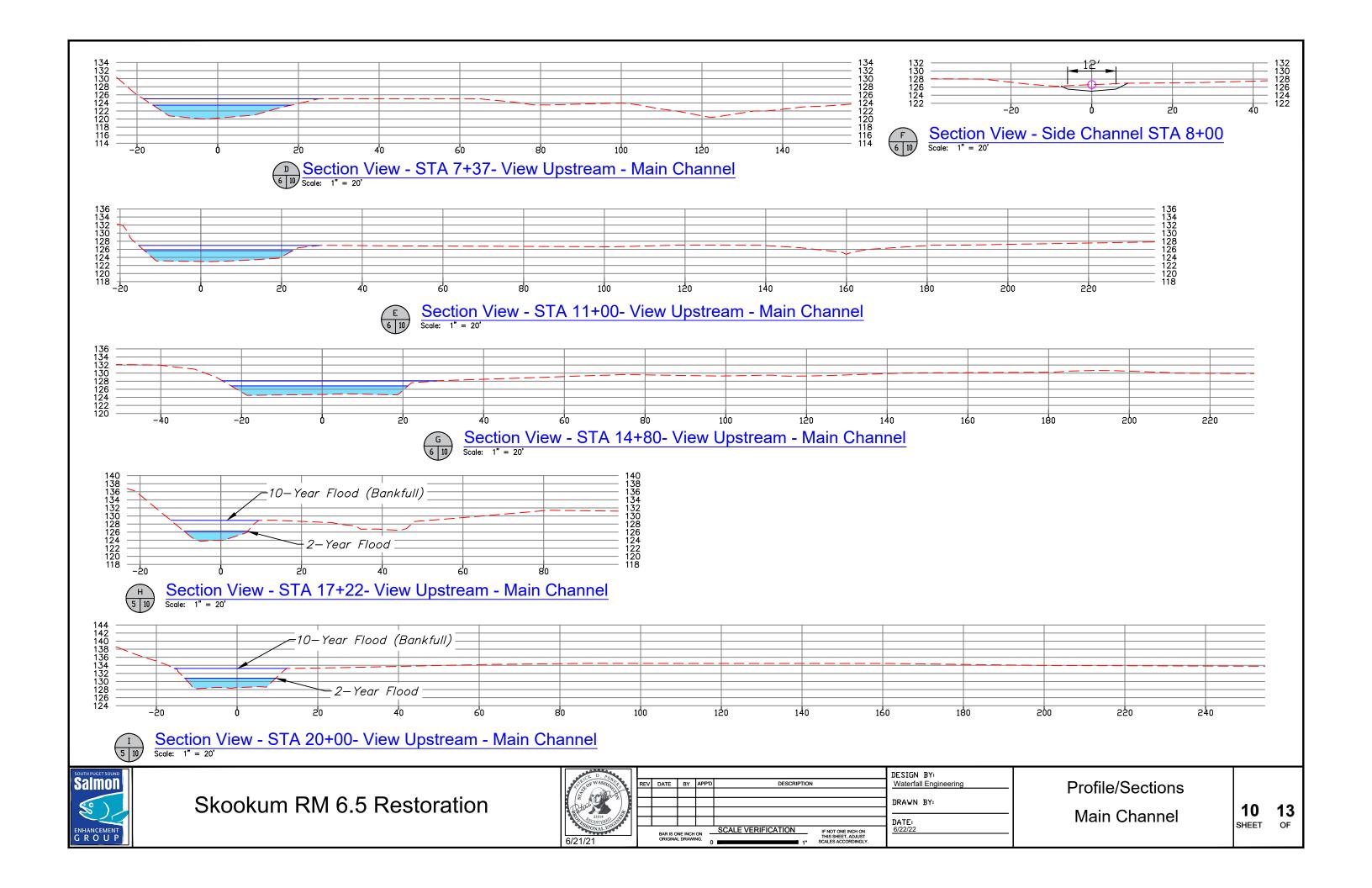


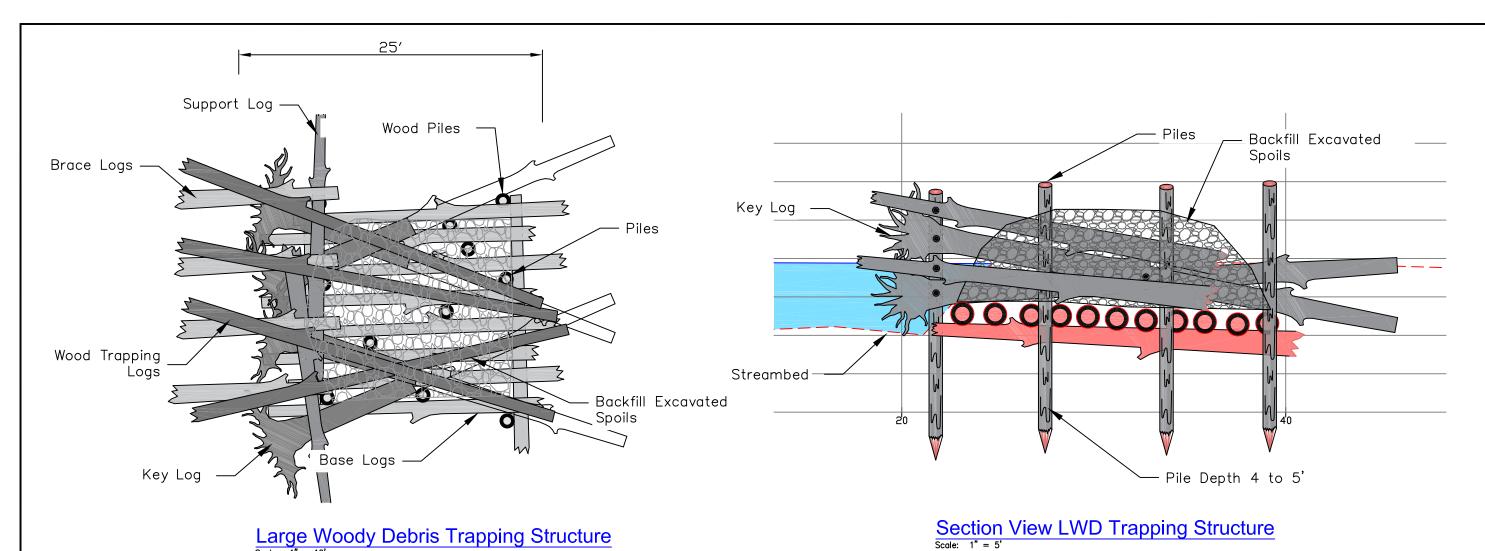












Large Woody Debris Trapping Structure
Scale: 1" = 10'

		Wood Catagories										
	¹ Ke	y Log	² Racki	ng Logs	³ Loos	e Wood	⁴ Wood Piles	⁵Slash				
Structure Type	Number	DBH (in)	Length (ft)	DBH (in)	Length (ft)	DBH (in)	Length (ft)	(ea)	(cu yds			
Mand Tanasian	2	15 to 18	40	12 to 15	30	12	25	10	15			
Wood Trapping	3		4		8	12		18	15			
Complexity	-	18 to 24	30 to 40	15	30	12	25	20	25			
	5	6		6		6		30	25			
Loose Wood	20	18 to 24	30 to 40	12 to 15	25 to 35	12	30		40			
	20		1	2		4			40			
Tota	Total		62		94		146	48	80			

Note:

Log with Root Wad

Single Log

Single Log or Logs with Rootwads

10" Diameter by 15' Long

6" Diameter Minus limbs and tree tops



Skookum RM 6.5 Restoration



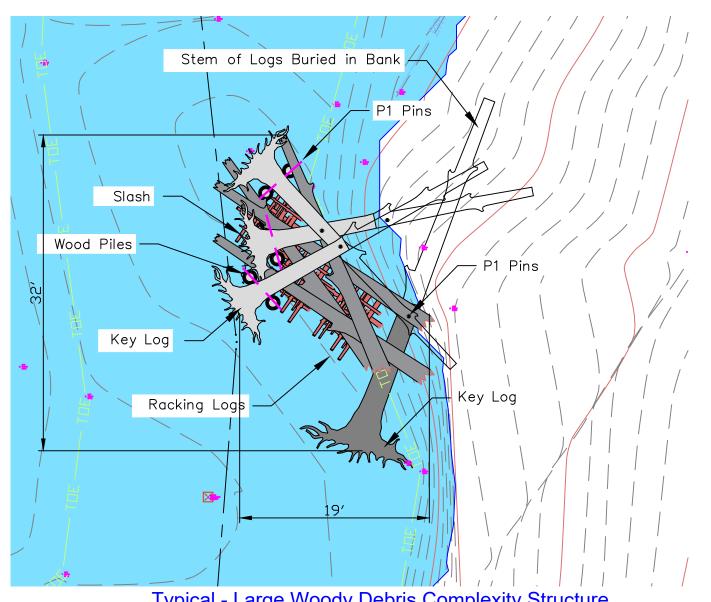
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DESIGN BY: Waterfall Engineering

DRAWN BY: DATE: 6/22/22

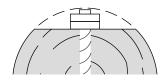
LWD Trapping Structures

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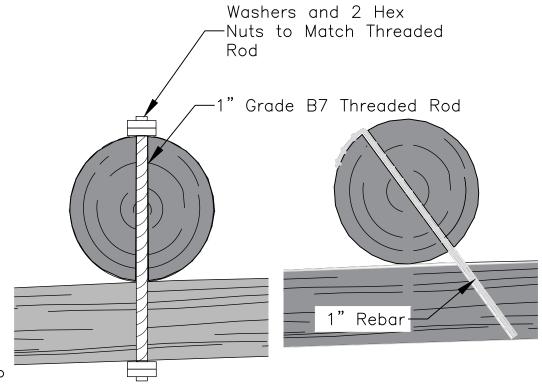


Typical - Large Woody Debris Complexity Structure

Scale: 1" = 10'



Note: Where Pins are Exposed on the outside or top of the LWD Structure Countersink the Ends below the Log.



Typical Log Pin - P1 (Rod) - P2 (Rebar)



Skookum RM 6.5 Restoration

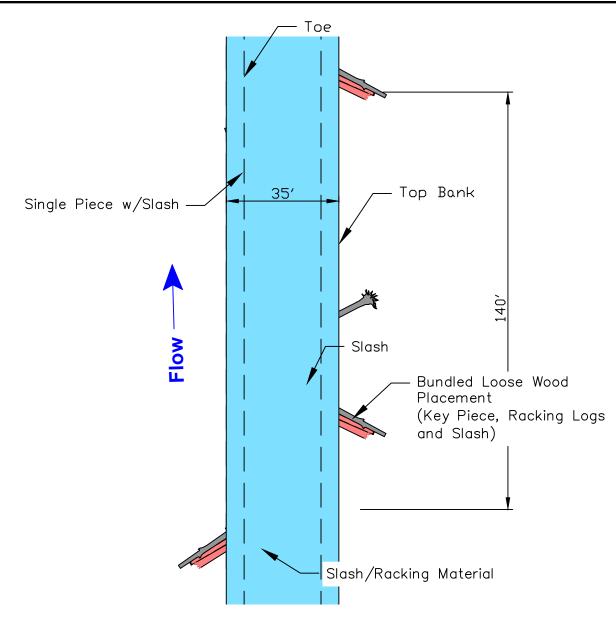


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LWD Complexity Structure

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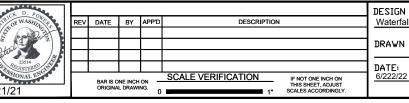
Typical Loose Wood Placement - Main Channel
Scale: 1" = 30'

Note: Loose Wood (Single Pieces and Bundles) Will be Staked in the Field by the Engineer. For LWD Trapping Structures and Complexity Structures the entent of placement will be staked after access and staging areas are complete.

For Placement: $\frac{3}{4}$ of Wood Inside of Top Bank.







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Loose Wood Placement