Line Table: Temporary Access Road						
Line #	Length	Direction	Start Point Northing	Start Point Easting	End Point Northing	End Point Easting
C6	56.44	N12° 45' 03.18"W	702436.72	1500825.04	702491.69	1500812.60
C5	126.06	N6° 06' 09.62"W	701954.58	1500955.54	702079.01	1500942.24
C4	61.55	N11° 48' 48.64"E	701579.01	1500910.17	701639.15	1500922.75
C3	74.19	N10° 36' 24.34"E	701212.53	1500802.85	701285.26	1500816.47
C2	160.01	N18° 48' 07.82"E	701035.79	1500750.22	701185.48	1500801.18
C1	216.37	N0° 34' 38.43"E	700507.86	1500529.14	700712.09	1500531.20
L7	92.40	N7° 21' 38.85"W	702491.69	1500812.60	702583.32	1500800.76
L6	376.42	N18° 08' 27.50"W	702079.01	1500942.24	702436.72	1500825.04
L5	317.13	N5° 56' 08.25"E	701639.15	1500922.75	701954.58	1500955.54
L4	308.33	N17° 41' 29.04"E	701285.26	1500816.47	701579.01	1500910.17
L3	27.10	N3° 31' 19.65"E	701185.48	1500801.18	701212.53	1500802.85
L2	390.84	N34° 04' 55.98"E	700712.09	1500531.20	701035.79	1500750.22
L1	102.75	N32° 55' 39.12"W	700421.62	1500584.99	700507.86	1500529.14

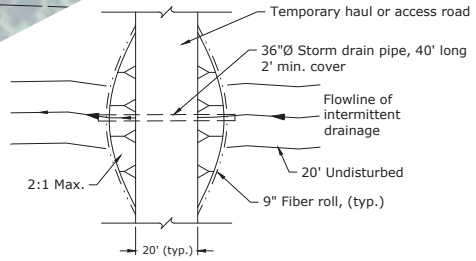
Curve Table: Temporary Access Road							
Curve #	Radius	Length	Chord Direction	Start Point Northing	Start Point Easting	End Point Northing	End Point Easting
C6	300.00	56.44	N12° 45' 03.18"W	702436.72	1500825.04	702491.69	1500812.60
C5	300.00	126.06	N6° 06' 09.62"W	701954.58	1500955.54	702079.01	1500942.24
C4	300.00	61.55	N11° 48' 48.64"E	701579.01	1500910.17	701639.15	1500922.75
C3	300.00	74.19	N10° 36' 24.34"E	701212.53	1500802.85	701285.26	1500816.47
C2	300.00	160.01	N18° 48' 07.82"E	701035.79	1500750.22	701185.48	1500801.18
C1	185.00	216.37	N0° 34' 38.43"E	700507.86	1500529.14	700712.09	1500531.20

NOTES:

1. Culverts at temporary road crossings must be removed during extended periods when work stops to allow fish passage when the reservoir level is 2230 or higher.
2. Contractor may stockpile and stage riprap between the temporary access road and bank slope.
3. No work shall take place below existing elevation 2220 unless shown otherwise on the drawings.
4. Start the temporary access road along the side of the existing boat ramp. Stockpile existing riprap placed at the edge of the boat ramp and replace it upon removal of the temporary access road.
5. See drawing 33-109-60009 for typical temporary access road section and proposed profile.
6. Material may be borrowed between the temporary access road and the top of riprap placement, within the work limits as shown. Restore any borrow areas after use by grading max 5:1 slope at edges with drainage toward reservoir to avoid fish entrapment.
7. The Contractor may use water from the reservoir for dust control. Any water pumps set below elevation 2243 for filling a water truck must be placed in secondary containment and be equipped with a NMFS-compliant intake screen.
8. Contractor may relocate existing driftwood as necessary to clear the work area. Upon completion of all work, ensure driftwood is not left in piles and spread it naturally within the restored work site.

ACCESS AND STAGING

0 100' 200'



DRAINAGE CROSSING PLAN
N.T.S.

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BUREAU OF RECLAMATION
YAKIMA PROJECT
YRBWEP

CLE ELUM DAM AND RESERVOIR
SPEELYI BEACH SHORELINE PROTECTION

SHEET	DATE		
3	2024-07-09 109 MATT DEAMICO, P.E.	CORRECTS TYPO IN NOTE 3.	
2	2024-02-12 109 MATT DEAMICO, P.E.	UPDATED NOTES.	
1	2023-10-25 109 MATT DEAMICO, P.E.	ADDED OPTIONAL PRICE SCHEDULE A WORK LIMIT BOUNDARY, ADDED FISH HABITAT LOG STRUCTURES.	

Matt DeAmico, P.E.
DESIGNED
Matt DeAmico, P.E.
DRAWN
Wade Warner
CHECKED
MATT DEAMICO
TECH. APPR. P.E., Civil Engineer
WYLIE DUKE
APPROVED
ADMIN APPROVAL - P.E., Civil Engineer
CCAO, YAKIMA, WA 2024-11-01

ACCESS AND STAGING

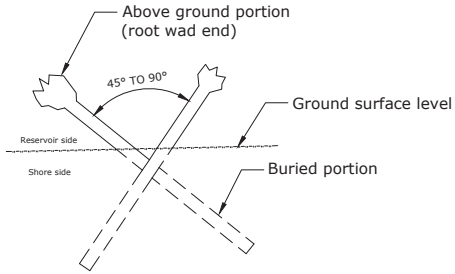
PLAN AND DETAIL

33-109-60002

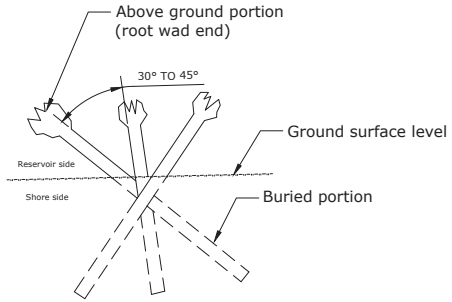
SHEET 2

LAST SAVED DATE 2024-10-09
LAST SAVED BY MGAMICO

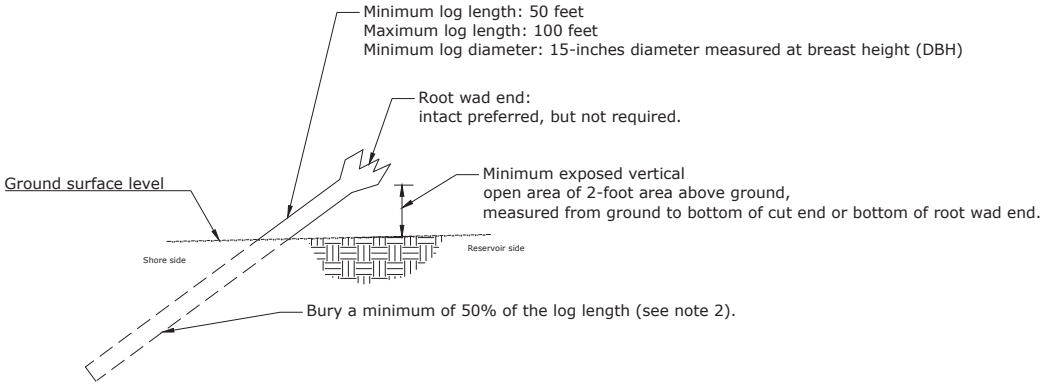
CAD SYSTEM AutoCAD Civil 3D (LMS TECH)
CAD FILENAME 33-109-60002-No-1.DWG



2- LOG HABITAT STRUCTURE
PLAN VIEW (N.T.S.)



3- LOG HABITAT STRUCTURE
PLAN VIEW (N.T.S.)



TYPICAL LOG HABITAT STRUCTURE
PROFILE VIEW*

*Only one log shown for
clarity

NOTES:

1. Intact root wads are not required for construction. If logs with intact root wads are used, use the root wad end as the exposed end of the structure.
2. Backfill and compact in accordance with the specifications.
3. Keep branches as intact as possible on logs. Branches are not shown for clarity.
4. Do not use any fastenings or mechanical connections to connect the logs together.
5. Do not use any anchors or other devices to restrain the logs into the reservoir bed.

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YAKIMA RIVER BASIN WATER ENHANCEMENT PROJ-INTEGRATED PLAN

CLE ELUM DAM AND RESERVOIR

SPEELYI SHORELINE PROTECTION

REVISION	DATE	BY	CHANGE
2	2026-07-06	Matt DeAmico, P.E.	109 CHANGED EMBEDMENT DEPTH.
1	2026-02-11	Matt DeAmico, P.E.	109 UPDATED STRUCTURE DIMENSIONS.

MATT DEAMICO, P.E.
DESIGNED
MATT DEAMICO, P.E.
DRAWN
ELIZABETH HEETHER
CHECKED
Matt DeAmico, P.E.
TECH. APPR. CIVIL ENGINEER
Chad Stuart
APPROVED YPO Manager
ADMIN APPROVAL
YAKIMA, WA 2025-06-12

FISH HABITAT LOG
STRUCTURES

33-109-60047

SHEET 13

LAST SAVED DATE
2026-07-06
LAST SAVED BY
MDEAMICO

CAD SYSTEM
AutoCAD 2025 (LMS TECH)
CAD FILENAME
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