



## **2014 Middle Methow Two Channels Large Wood Enhancement Project**

Dear Contractor:

April 21, 2014 (Amended May 21, 2014)

The Yakama Nation's Upper Columbia Habitat Restoration Project is requesting bids for construction of a **Salmon Habitat Enhancement Project** to be implemented on the Methow River in July of 2014. The project will involve all work elements and specifications found in the Project Plans attached to this bid packet.

To be eligible for an award of contract for this project, please attend the mandatory pre-bid site visit on **May 12, 2014 at 8:00 am** at the project location (**70 Old Twisp Highway South, Twisp, WA 98856**). This site visit will be conducted by Yakama Nation Fisheries Habitat Biologist Hans Smith, who is the project manager.

By the close of business on **Tuesday, June 3, 2014**, each contractor must have completed and submitted a signed copy of the attached Middle Methow Reach Two Channels Large Wood Enhancement Project Bid Sheets. Please specify in writing on the bid sheets that all bid prices will be valid for at least 90 days. All competitive bid materials must be sent by parcel delivery service or postal mail to:

**Yakama Nation**

**Attn: Jackie Olney, Methow River Two Channels Fish Enhancement Project**  
**PO Box 151**  
**Toppenish WA, 98948**  
**(Shipping address: 401 Fort Road, Toppenish, WA 98948)**

The project will be conducted between **July 15 and August 1, 2014**, to coincide with the normal in-water work window for the Methow River. This is a time of year when ESA-listed juvenile and adult salmon and steelhead may be present in or near the project area so turbidity control via cofferdam systems will be of the utmost importance. The winning contractor will understand the magnitude of this project and be equipped to perform all necessary elements for a project of this type within a critical habitat stream. The winning contractor will have extensive experience in the following: building cofferdams, de-watering following NMFS fish screening protocols, constructed log jams, excavating engineered channels and minimizing local disturbance.

All contractors submitting bids for this project shall provide and/or demonstrate, at a minimum, the following:

- ***A list of experienced equipment operators that will be on-site during project construction. Please provide details of their work on in-stream habitat enhancement structures within the past several years.***
- ***A detailed construction timeline of how you propose to get all project tasks completed within the permitting work-window timelines.***
- ***Experience and preferably examples of the ability to create de-watered work areas through the use of coffering techniques. A cofferdam and surface water diversion plan should be submitted with the bid documents.***
- ***A list of key pieces of heavy equipment that will be used in construction of the project and associated standby prices per day.***

Please note:

- Davis Bacon Wages apply to this contract. The winning contractor will adhere to the Davis Bacon rules and comply and submit all necessary paperwork to the Yakama Nation.
- The Yakama Nation is exempt from state taxes on this project. Please see the attached Treaty Fishery Exempt Cover Letter and Treaty Fishery Exempt Certificate. The winning contractor will receive signed copies for their records.
- As referenced in Sheet 3 of the Construction Plan Set, an offroad dump truck shall be used to move boulders and logs from the stockpile area to installation sites.
- As referenced in Sheet 3 of the Construction Plan Set, acceptable minimum vibrasonic pile driving equipment shall include: hmc movax sonic side grip vibratory pile driver model sp80 or equivalent. Impact pile drivers will not be acceptable.

The attached Scope of Work Exhibit provides an overview of the scope of work likely to be incorporated into the awarded contract. Please make note of specific provisions provided in this Scope of Work Exhibit that may be in addition to the specifications and directions found in the Project Planset.

Additionally, this project will occur on lands owned by the State of Washington and managed by the Washington State Department of Fish and Wildlife. Construction access to the project site has already been pre-negotiated under a Memorandum of Understanding between the Yakama Nation and the Washington Department of Fish and Wildlife. One pre-requisite of this project is that the winning bidder must be able to provide to the State of Washington all requirements listed in the attached template Right of Entry Agreement. Please note that the Adaptive Management obligations referenced in the Right of Entry Agreement in section 5 of the Terms and Conditions will not be assigned to the contractor by the Yakama Nation.

Awarded contractor must provide “san-i-can” service. Please note that this project is pending on permitting and final landowner permission.

This project will occur on private property and no one is allowed on the property prior to the site visit without specific consent of the property owner. For questions regarding the site visit, please contact me at the numbers provided below.

Sincerely,



Hans Smith  
Habitat Biologist  
Yakama Nation Fisheries  
2 Johnson Lane  
Winthrop, WA 98862  
(509) 449-2750 (Work Cell)  
(509) 996-5005 (Winthrop Office)  
[smih@yakamafish-nsn.gov](mailto:smih@yakamafish-nsn.gov)

**BID PROPOSAL for Two Channels Large Wood Enhancement Project**  
**(5/21/2014 - updated version)**

Please use the Engineer's Stamped Project Plans to produce your competitive bids.

No.	Item	Quantity	Unit	Unit Price	Extended Price
1	Mobilization	1	LS	\$	\$
2	TESC, SPCC Plan and Implementation	1	LS	\$	\$
3	Temporary Cofferdam	1	LS	\$	\$
4	Pile Ballasted Structure	1	LS	\$	\$
5	Boulder Ballasted Structures	1	LS	\$	\$
6	Mulch	1	LS	\$	\$
7	Road Repair	3,125	SF	\$	\$
8	Standby Time (See attached Equipment List on next page)				
9	Additional 4" pump provision	1	DAY	\$	

TOTAL (do not include tax) \$
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**Company Name:**

**Date Prepared:**

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**Certification**

**Printed Name and Title**

**Signature**

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By signing and submitting this form you are agreeing to honor the completed competitive bid for a period of up to 90 days from the date this form was prepared.

## Heavy Equipment List and Hourly Standby Rate

	Item Description	Daily Standby Rate
1		\$
2		\$
3		\$
4		\$
5		\$
6		\$
7		\$
8		\$
9		\$
10		\$
11		\$
12		\$
13		\$
14		\$
	ex. 160 G Excavator	\$50.00

# Methow River Habitat Enhancement Two Channels Project - Riprap Enhancement

Okanogan County, Washington

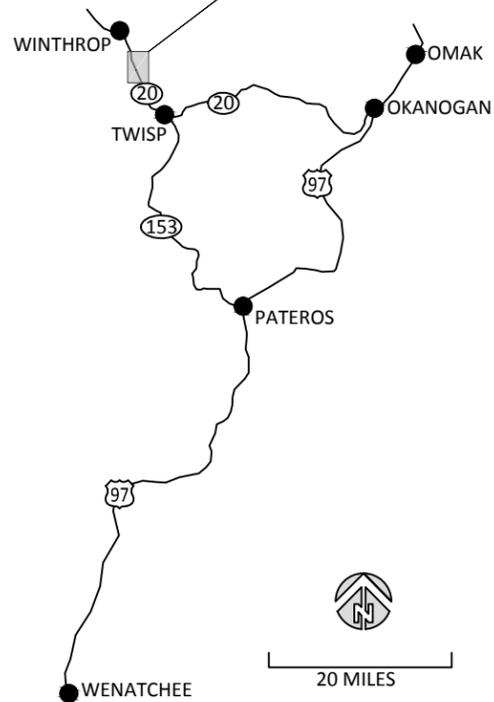


SITE MAP  
NOT TO SCALE



### SHEET INDEX

- 1 COVER, SHEET INDEX, AND LOCATION MAPS
- 2 PROJECT SITES, ACCESS, AND STAGING AREAS
- 3 GENERAL NOTES, EROSION CONTROL PLAN
- 4 LOG STRUCTURES PLAN VIEW
- 5 SECTION VIEWS AND ANCHORING DETAILS
- 6 SPECIFICATIONS
- 7 SPECIFICATIONS AND CONSTRUCTION QUANTITIES



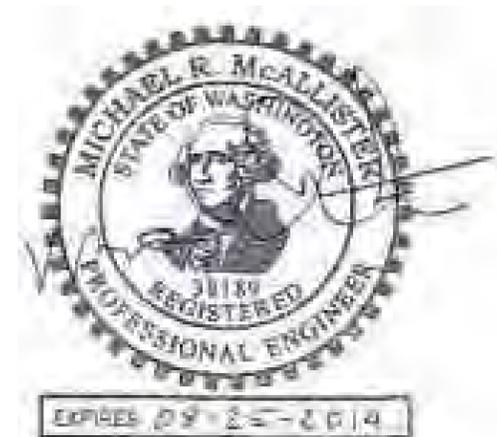
VICINITY MAP



### SITE LOCATION:

LATITUDE: 48°24'40" NORTH  
LONGITUDE: 120°08'09" WEST  
NEAR THE CITY OF TWISP,  
OKANOGAN COUNTY, WA

WATERBODY: METHOW RIVER  
TRIBUTARY OF: COLUMBIA RIVER



NO.	BY	DATE	REVISION DESCRIPTION

RP,DF	MB,MM,RP	MB,MM
DRAWN	DESIGNED	CHECKED
MB	12/04/2013	PROJECT
APPROVED	DATE	PROJECT

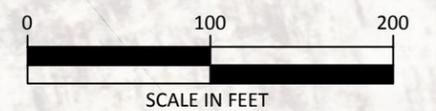
Confederated Tribes and Bands of the Yakama Nation  
Methow River Habitat Enhancement  
Two Channels Riprap Enhancement



501 Portway Ave, Suite 101  
Hood River, OR 97031  
541.386.9003  
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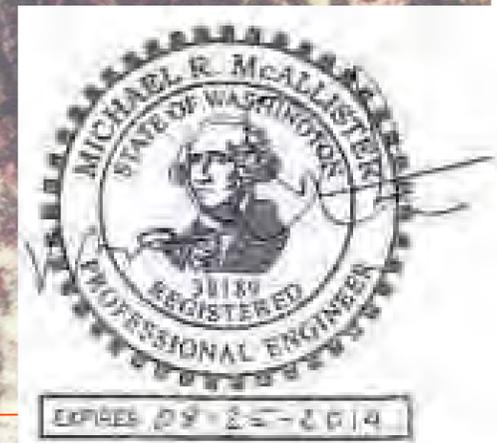
COVER, SHEET INDEX,  
AND LOCATION MAPS

SHEET  
1 OF 7



**LEGEND**

- EXISTING RIPRAP
- LIMITS OF DISTURBANCE
- STAGING / STOCKPILE AREA
- RESTORE DRIVEWAY
- SURVEYED TREES



NO.	BY	DATE	REVISION DESCRIPTION

RP,DF DRAWN	MB,MM,RP DESIGNED	MB,MM CHECKED
MB APPROVED	12/04/2013 DATE	PROJECT

Confederated Tribes and Bands of the Yakama Nation  
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Two Channels Riprap Enhancement

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PROJECT SITE, ACCESS,  
STAGING AREAS

**EXISTING DATA**

GENERAL TOPOGRAPHIC INFORMATION IS PROVIDED FROM LIDAR AND SPECIFIC PROJECT AREA SURVEY PERFORMED BY INTER-FLUVE, INC. THROUGH NOVEMBER 2013. SURVEY IS BASED ON NAD27 WASHINGTON STATE PLANES, NORTH ZONE COORDINATE SYSTEM.

**SOILS**

METHOW RIVER GRAVEL AND ALLUVIAL SOILS.

**UTILITIES**

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR HAVING UTILITIES LOCATED PRIOR TO CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE AFFECTED UTILITY SERVICE TO REPORT ANY DAMAGED OR DESTROYED UTILITIES. THE CONTRACTOR SHALL PROVIDE EQUIPMENT OR LABOR TO AID THE AFFECTED UTILITY SERVICE IN REPAIRING DAMAGED OR DESTROYED UTILITIES AT NO COST TO THE OWNER.

**CONSTRUCTION ACCESS**

THE CONTRACTOR SHALL ENTER THE SITE FROM OLD TWISP HWY S.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING ANY REQUIRED TRAFFIC CONTROL OR ACCESS PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING ANY REQUIRED TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO, SIGNAGE AND FLAGGERS.

ALL EQUIPMENT, MATERIALS AND PERSONNEL SHALL REMAIN WITHIN THE LIMITS OF DISTURBANCE.

AN OFFROAD DUMP TRUCK SHALL BE USED TO MOVE BOULDERS AND LOGS FROM THE STOCKPILE AREA TO INSTALLATION SITES.

**FISH RESCUE**

DEWATERING AND FISH RESCUE OPERATIONS WILL BE COMPLETED IN ACCORDANCE WITH THE PROTOCOL II- DEWATERING OUTSIDE HIGH LIKELIHOOD LISTED FISH AREA METHODS DETAILED IN THE U.S. ARMY CORPS OF ENGINEERS RESTORATION PROGRAMMATIC PERMIT (NMF5 REFERENCE NO. 2008/03598) AND/OR THE REQUIREMENTS OF RECEIVED PERMITS.

ALL FISH RESCUE EFFORTS SHALL BE SUPERVISED BY A QUALIFIED FISHERIES/AQUATIC BIOLOGIST EXPERIENCED WITH THE COLLECTION AND HANDLING OF SALMONID FISHES FROM CONSTRUCTION SITES.

**TREE SALVAGE**

ALL TREES AND SHRUBS REMOVED WITHIN CLEARING LIMITS SHALL BE REMOVED WHOLE WITH ROOT WAD AND UTILIZED IN THE STREAM CONSTRUCTION AS DIRECTED BY OWNER'S REPRESENTATIVE.

**LIVE TREES**

ALL TREES NOT MARKED FOR REMOVAL SHALL BE LEFT STANDING UNDISTURBED. LOGGING ACTIVITY SHALL NOT DEBARK OR DAMAGE LIVE TREES.

KEEP OUT OF DRIP LINE OF EXISTING TREES TO REMAIN.

**PILES**

ALL VERTICAL PILES SHALL BE INSTALLED USING VIBRASONIC PILE DRIVING EQUIPMENT. INSTALLATION BY EXCAVATION OR HAMMERING SHALL NOT BE ALLOWED. ACCEPTABLE MINIMUM VIBRASONIC PILE DRIVING EQUIPMENT SHALL INCLUDE: HMC MOVAX SONIC SIDE GRIP VIBRATORY PILE DRIVER - MODEL SP80 OR EQUIVALENT.

PILES SHALL BE MINIMUM 12" DIAMETER AT SCALED END, MAXIMUM 17" DIAMETER AT THE MIDPOINT OF THE LOG.

**RIGGING**

RIGGING FOR PILE TESTING SHALL CONFORM TO THE TENSION SCALE MANUFACTURER'S RECOMMENDATIONS. CHOKERS, CABLES AND SHACKLES SHALL HAVE MINIMUM WORKING LOAD RATING OF 12 TONS. FITTINGS SHALL BE SIZED ACCORDINGLY.

**TESTING**

TESTING OF PILES SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER.

EACH PILE TEST SHALL HAVE UPWARD LOAD GRADUALLY INCREASED AND AS CLOSELY ALIGNED TO AXIS OF PILE AS POSSIBLE.

RECORD THE PILE DIAMETER, EMBEDMENT DEPTH AND MAXIMUM FORCE REQUIRED TO MOVE THE PILE .

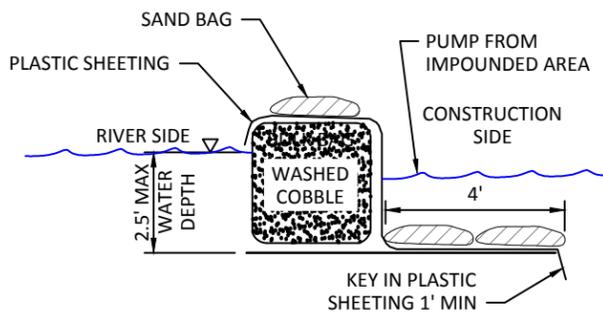
PROOF TESTS SHALL BE MADE AT UP TO FOUR EMBEDMENT DEPTHS TO BE DETERMINED IN THE FIELD. AS A GUIDELINE, TEST EMBEDMENT DEPTHS MAY INCLUDE 6', 8', 10', AND 12'. UP TO THREE LOADINGS MAY BE REQUIRED AT EACH EMBEDMENT DEPTH.

EXCAVATOR CONDUCTING PULL OUT LOADING SHALL BE POSITIONED NO CLOSER THAN EMBEDMENT DEPTH OF PILE IF POSSIBLE. IF A CLOSER POSITIONING IS REQUIRED, EXCAVATOR SHALL BE NO CLOSER THAN THAT REQUIRED TO GENERATE DESIRED LOADING WITH DISTANCE FROM PILE NOTED IN THE TEST RECORD. PUT EXCAVATOR ON LOGS TO DISTRIBUTE LOADING TO GROUND.

PULL OUT RESISTANCE READING SHALL BE COMPARED AGAINST EXCAVATOR MAX LIFT OFFSET TABLE.

10% OF THE TOTAL NUMBER OF PILING SHALL BE PROOF TESTED.

CONSTRUCTED DRIVEN PILE EMBEDMENT DEPTH SPECIFIED IN THE PLANS MAY BE REDUCED OR INCREASED, PENDING PULL OUT TEST RESULTS, AT NO ADDITIONAL COST TO THE OWNER.



**TEMPORARY COFFER DAM**  
(WATER DEPTHS LESS THAN 2.5')

**BULK BAG GENERAL NOTES**

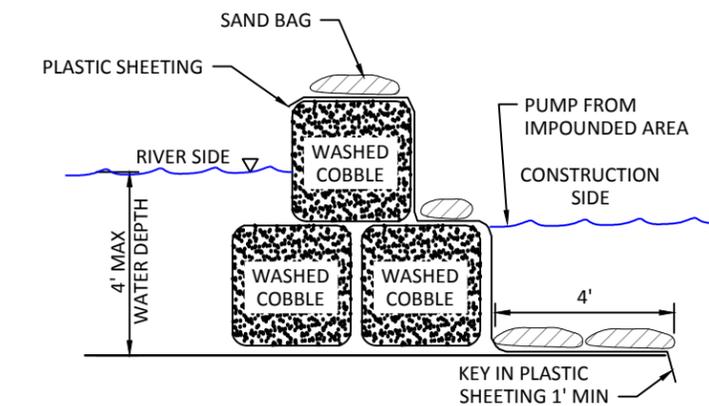
BULK BAG COFFERDAM SHALL BE CONSTRUCTED OF SEVERAL UNITS OF BULK BAGS FILLED WITH WASHED GRAVEL, AND ABUTTED SIDE BY SIDE TO CREATE A ROW THAT ISOLATES THE CONSTRUCTION SITE FROM THE RIVER. IF WATER DEPTH EXCEEDS 85% OF THE BULK BAG HEIGHT, AN ADDITIONAL TOP ROW OF BULK BAGS SHALL BE INSTALLED, SUPPORTED BY TWO BOTTOM ROWS OF BULK BAGS. BULK BAG COFFERDAM SHALL BE SEALED BY COVERING THE COFFERDAM WITH PLASTIC SHEETING HELD IN PLACE BY STANDARD SANDBAGS PLACED IN ROWS ON TOP OF COFFERDAM, AND AT TOE OF COFFERDAM. THE PLASTIC SHEETING SHALL BE DRAPED ALONG THE CHANNEL BOTTOM ON THE WORK AREA SIDE OF THE COFFERDAM WITH OUTWARD EDGE OF SHEETING MINIMUM 4- FEET FROM TOE OF COFFERDAM. THE DRAPED PORTION OF PLASTIC SHEETING SHALL BE PINNED TO THE CHANNEL BED BY MINIMUM TWO ROWS OF STANDARD SANDBAGS. THE OUTWARD EDGE OF PLASTIC SHEETING SHALL BE TOED INTO THE CHANNEL BED MINIMUM 1-FT. TOEING IN THE OUTWARD EDGE OF PLASTIC SHEETING SHALL OCCUR AFTER THE COFFERDAM IS CLOSED TO PREVENT TURBIDITY RELEASE TO THE WATERWAY.

IF POSSIBLE, THE COFFERDAM SHALL BE EXTENDED ONTO A GRAVEL BAR AND OUT OF THE WATER. IF THE END MUST BE TERMINATED AT THE RIVERBANK, THE COFFERDAM SHALL BE TIGHTLY SEALED TO THE GROUND BY PLASTIC SHEETING AND STANDARD SANDBAGS. MULTIPLE LAYERS OF SHEETING AND SANDBAGS MAY BE REQUIRED TO FORM A WATERTIGHT SEAL.

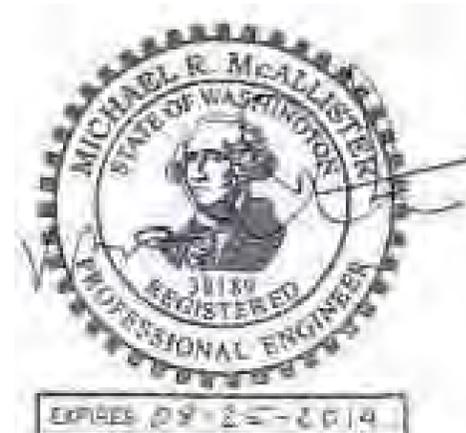
BULK BAGS SHALL BE WATERPROOF CUBE-SHAPED POLYPROPYLENE WOVEN FABRIC BAGS WITH FULLY OPEN TOP, FLAT BOTTOM, FOUR LOOPS, MINIMUM 2-TON WEIGHT CAPACITY, MINIMUM 5:1 SAFETY FACTOR.

PLASTIC SHEETING SHALL BE MINIMUM 6-MIL THICKNESS. ROLL LENGTH SHALL BE LONG ENOUGH TO ENSURE THAT ENTIRE LENGTH OF COFFERDAM WILL BE COVERED WITHOUT A SEAM. MINIMUM 12-FT WIDE ROLL SHALL BE USED FOR SINGLE LAYER BULK BAG COFFERDAM. MINIMUM 16-FT ROLL SHALL BE USED FOR 2-LAYER STACKED BULK BAG COFFERDAM. BULK BAG COFFERDAM SHALL BE COMPLETELY REMOVED AFTER CONSTRUCTION IS COMPLETED AND TURBIDITY HAS BEEN REMOVED.

ALTERNATE COFFERDAM MATERIALS AND CONFIGURATIONS MAY BE ALLOWED BUT SHALL NOT BE IMPLEMENTED WITHOUT REVIEW AND APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND/OR VENDOR CUT SHEETS FOR SUBSTITUTIONS.



**TEMPORARY COFFER DAM**  
(WATER DEPTHS GREATER THAN 2.5')



NO.	BY	DATE	REVISION	DESCRIPTION

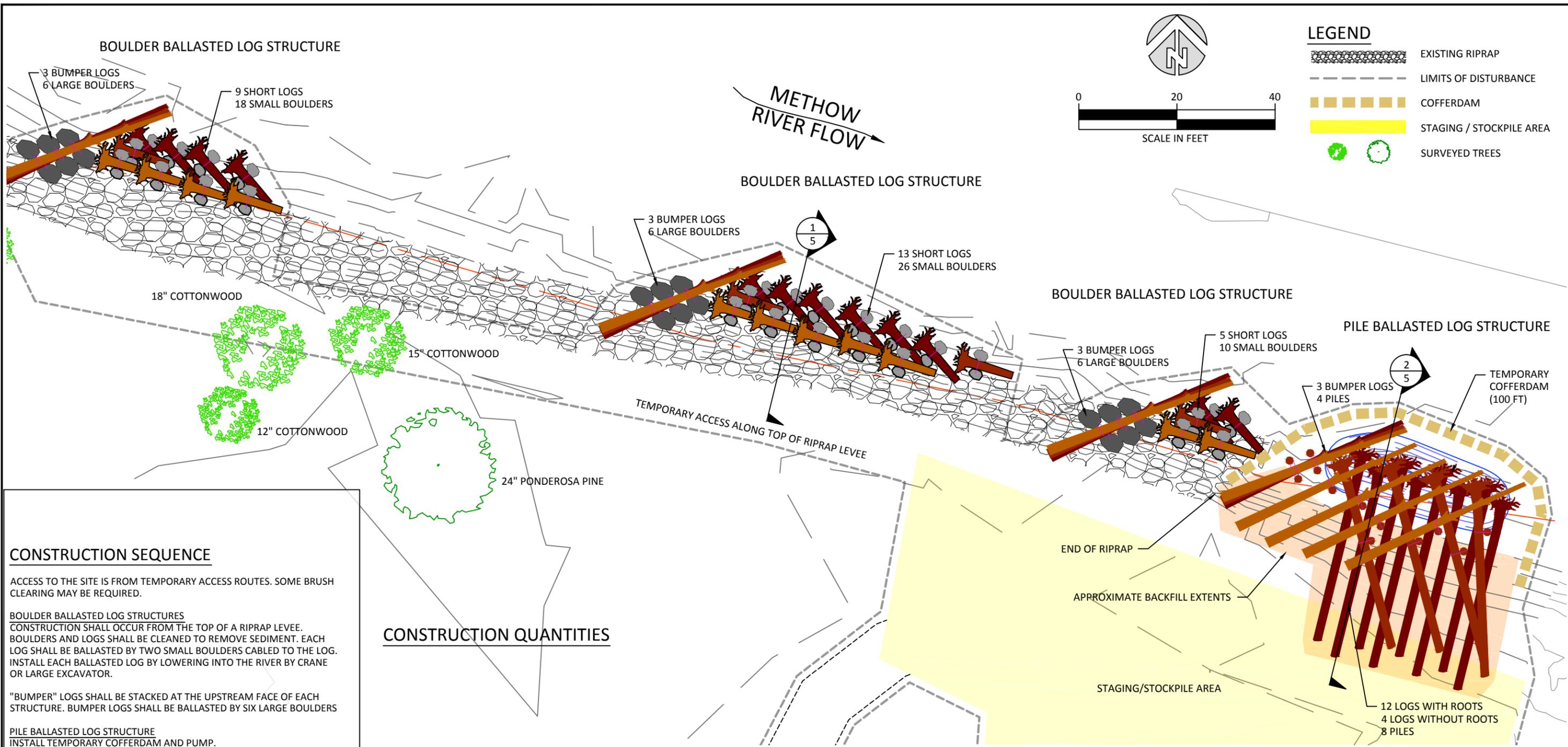
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GENERAL NOTES AND  
EROSION CONTROL PLAN



**CONSTRUCTION SEQUENCE**

ACCESS TO THE SITE IS FROM TEMPORARY ACCESS ROUTES. SOME BRUSH CLEARING MAY BE REQUIRED.

**BOULDER BALLASTED LOG STRUCTURES**  
 CONSTRUCTION SHALL OCCUR FROM THE TOP OF A RIPRAP LEVEL. BOULDERS AND LOGS SHALL BE CLEANED TO REMOVE SEDIMENT. EACH LOG SHALL BE BALLASTED BY TWO SMALL BOULDERS CABLED TO THE LOG. INSTALL EACH BALLASTED LOG BY LOWERING INTO THE RIVER BY CRANE OR LARGE EXCAVATOR.

"BUMPER" LOGS SHALL BE STACKED AT THE UPSTREAM FACE OF EACH STRUCTURE. BUMPER LOGS SHALL BE BALLASTED BY SIX LARGE BOULDERS

**PILE BALLASTED LOG STRUCTURE**  
 INSTALL TEMPORARY COFFERDAM AND PUMP.

EXCAVATE TO SUBGRADE.

THE STRUCTURE SHALL BE COMPOSED OF THREE LAYERS OF LOGS BALLASTED BY PILES. ALL LOGS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO INSTALLATION. INCORPORATE CLEARED BRUSH/SLASH AS SMALL WOODY DEBRIS INTERMINGLED WITH INSTALLED LOGS.

"BUMPER" LOGS SHALL BE STACKED AT THE UPSTREAM FACE OF THE STRUCTURE.

INSTALL PILES AND CABLE LOGS TO PILES. BACKFILL STRUCTURE AS FAR AS NEEDED TO REMOVE COFFERDAM.

REMOVE COFFERDAM.

SEED AND MULCH ALL DISTURBED GROUND.

**CONSTRUCTION QUANTITIES**

**PLAN VIEW**

NO.	BY	DATE	REVISION	DESCRIPTION

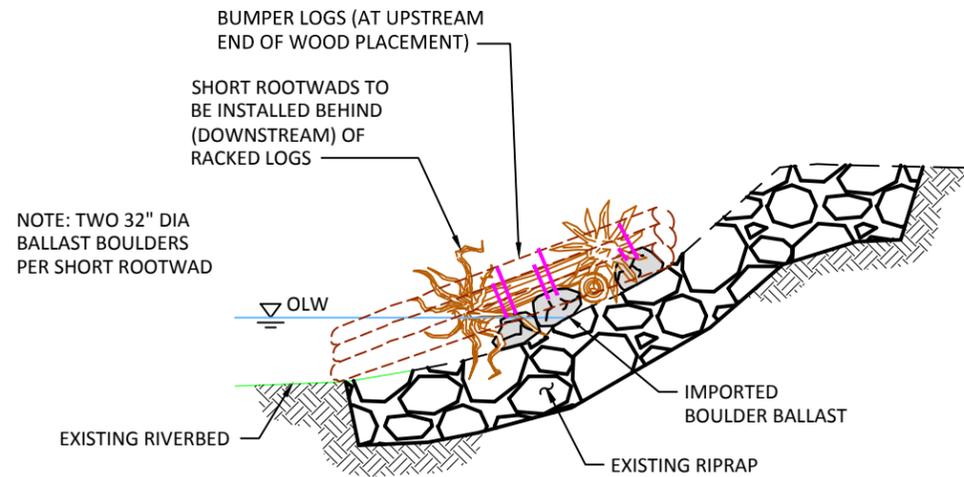
RP,DF DRAWN	MB,MM,RP DESIGNED	MB,MM CHECKED
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 Methow River Habitat Enhancement  
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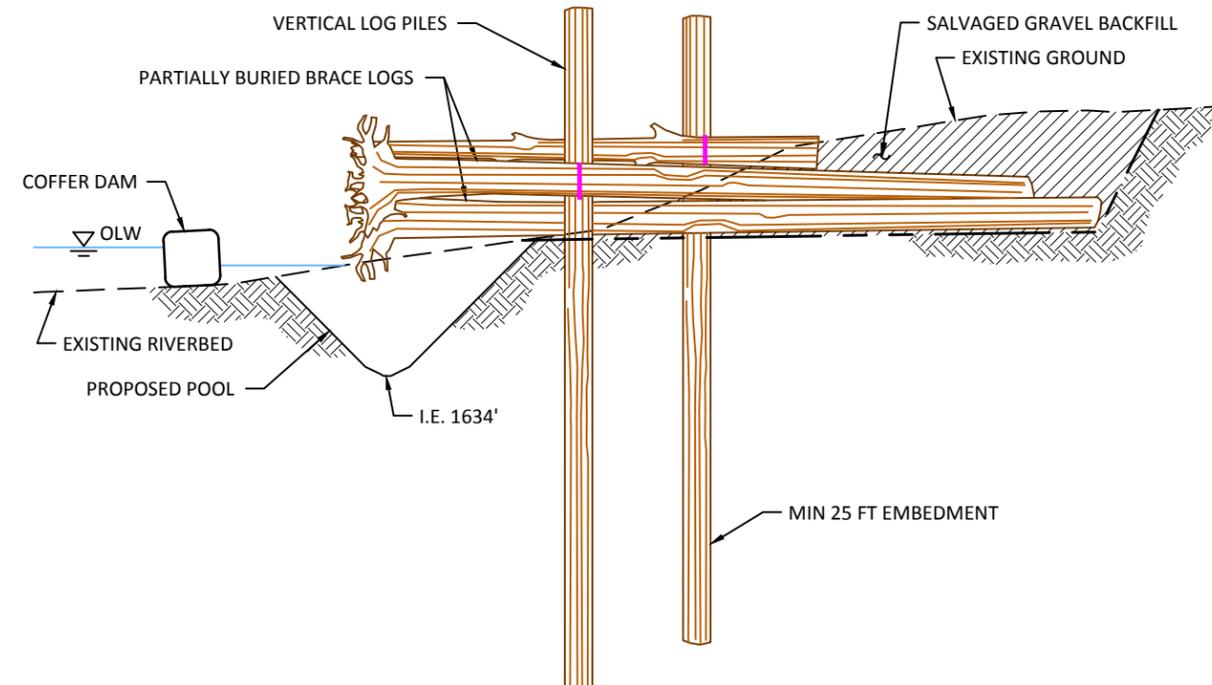


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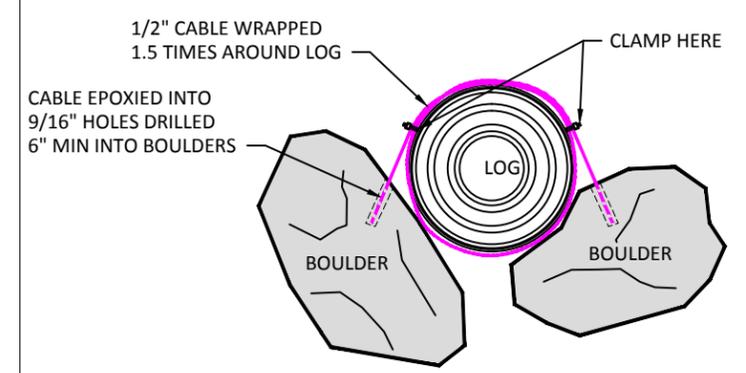
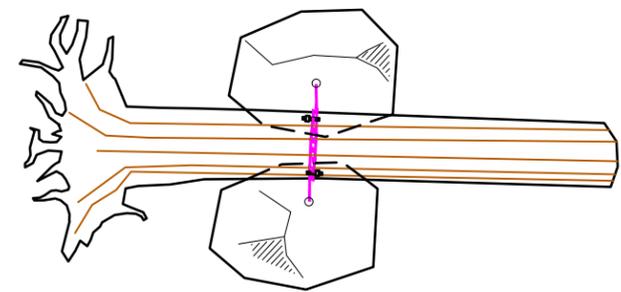
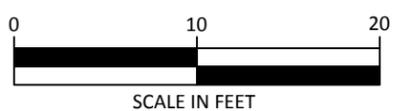
**LOG STRUCTURES  
 PLAN VIEW**



**1**  
**5** SECTION - TYPICAL BOULDER BALLASTED STRUCTURE



**2**  
**5** SECTION - TYPICAL PILE BALLASTED STRUCTURE



**3**  
**5** BOULDER BALLAST DETAIL  
NOT TO SCALE

**DESCRIPTION**  
THIS WORK CONSISTS OF INSTALLING LOGS WITH ROOT WADS INTO ANCHORED LOG STRUCTURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE OWNERS REPRESENTATIVE.

**MATERIALS**  
ANCHORS FOR THIS WORK WILL CONSIST OF CABLED BOULDERS. BOULDERS SHALL BE NON-FRACTURED BASALT WITH A MINIMUM SPECIFIC GRAVITY OF 2.65.

CABLE SHALL BE 1/2" GALVANIZED, STEEL CORE WIRE ROPE.

CLAMPS SHALL BE CROSBY CLIPS, G-450, OR APPROVED EQUAL. MINIMUM OF 2 CLAMPS PER ANCHOR POINT.

EPOXY FOR ANCHORING SHALL BE HILTI HIT RE 500 ADHESIVE OR APPROVED EQUAL.

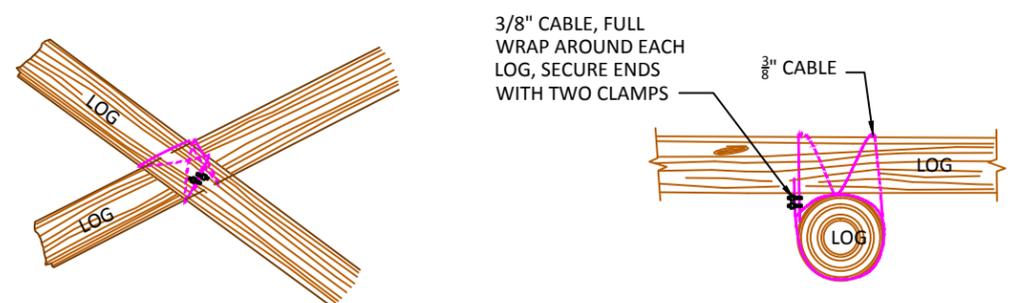
**CONSTRUCTION**  
FINAL POSITIONING OF THE ANCHORED LOG STRUCTURES SHALL BE IN THE APPROXIMATE LOCATION AS SHOWN ON THE PLANS AND AS APPROVED IN THE FIELD BY THE OWNERS REPRESENTATIVE.

BALLAST BOULDERS SHALL BE SECURED AS SHOWN ON THE PLANS. EACH LOG SHALL BE ANCHORED AT AT LEAST TWO POINTS.

DRILL HOLES IN SOLID ROCK AND AVOID ANY CRACKS OR FRACTURES. HOLES SHALL BE 9/16 INCH IN DIAMETER. HOLES MUST BE DRILLED 6 INCHES, MINIMUM, INTO ROCK. HOLES MUST BE CLEANED OF LOOSE ROCK FRAGMENTS AND POWDER WITH A BRUSH AND WATER. HOLES MUST BE CLEAN OF ALL DUST, DEBRIS, OIL, AND SOAP RESIDUES. THE HOLES MUST FLUSH CLEAR TO INSURE NO MATERIAL EXISTS BETWEEN THE CABLE, EPOXY, AND ROCK SURFACE. INSTALL EPOXY PER MANUFACTURER'S RECOMMENDATIONS.

CABLE SHALL BE WRAPPED ONCE AROUND LOG BEFORE ENDS ARE INSERTED INTO THE DRILLED HOLES FILLED WITH EPOXY. WIPE CABLE WITH CLEAN ACETONE SOAKED RAG TO REMOVE OILS AND GREASES PRIOR TO INSERTION INTO EPOXY FILLED HOLE. FILL DRILL HOLES ENOUGH TO ENSURE COMPLETE COVERAGE WITH EPOXY. INSERT CABLE INTO HOLE SO THAT END OF CABLE HITS THE BOTTOM OF THE HOLE. EXCESS EPOXY SHOULD COME OUT OF THE TOP OF THE HOLE AS CABLE IS SEATED IN DRILL HOLE.

CLAMPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION, SPACING AND CLAMP SIZE FOR THE SIZE AND LOAD RATING OF THE CABLE BEING USED.



**4**  
**5** LOG CABLING DETAIL  
NOT TO SCALE

**DESCRIPTION**  
THIS WORK CONSISTS OF ANCHORING LOGS BY CABLING TO OTHER LOGS OR VERTICAL LOG PILES.

**MATERIALS**  
CABLE SHALL BE 3/8 INCH GALVANIZED STEEL CORE WIRE ROPE.

MINIMUM OF 2 CLAMPS PER CONNECTION.

**CONSTRUCTION**  
FINAL POSITIONING OF THE ANCHORED LOG STRUCTURES SHALL BE IN THE APPROXIMATE LOCATION AS SHOWN ON THE PLANS.

LOGS SHALL BE TOUCHING. CABLE SHALL BE WRAPPED TWICE AROUND EACH LOG. PULL TIGHT AND INSTALL MINIMUM TWO CLAMPS PER CONNECTION. CLAMPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION, SPACING AND CLAMP SIZE AND LOAD RATING OF THE CABLE BEING USED.



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SECTION VIEWS AND ANCHORING DETAILS



**006 Mulch**

This item includes procurement and transport to the project site mulch that shall be bales of weed-free seedless straw, derived from wheat that meet the requirements of Section 9-14.4 of the Standard Specifications. Mulch application rate shall be 3 tons/acre. Contractor shall submit certification of weed-free and seedless material.

Measurement and Payment

Measurement shall be lump sum. Payment shall be considered full compensation for all equipment, labor, tools, materials, and incidentals necessary to complete this work as specified.

**007 Road Repair**

A privately owned driveway will be used to access the project site. Before project completion, the Contractor shall apply a 4" thick blanket of road gravel, and blade and compact it to provide a uniform driving surface.

Measurement

Measurement for road repair will be by the square foot of road surface receiving repair.

Payment

Payment shall be considered full compensation for all equipment, labor, tools, materials, and incidentals necessary to complete this work as specified.

**007 Standby Time**

Occasionally environmental factors and/or permit regulations require construction projects to temporarily shut down construction activities to avoid adverse impacts to sensitive resources. A declaration of a Level IV Industrial Fire Precaution Level by fire management agencies is one example of an environmental factor that could forcibly interrupt construction work on site for a matter of days to weeks.

Should regulations or restrictions be enforced upon project construction activities resulting from environmental factors beyond the control of the contractor or the owner, the contractor will discuss options with the owner to determine the best course of action for maintaining the project timelines, preserving the good faith cost estimates for implementing the project as designed, and protecting the contractor from being responsible for cost overruns related to the mandatory shut down.

Discharging staff from the project during shut down periods is one way to control payroll costs that could be incurred by the contractor. However, the owner recognizes that leaving heavy construction equipment at the site can be a cost burden to the contractor if those equipment could be temporarily redeployed at other unaffiliated project sites during the shut down period. For this reason, the owner shall allow the contractor to charge pre-determined stand by rates by a unit of time for pre-identified pieces of heavy equipment in order to preserve the opportunity for the equipment to not be mobilized away from the project site. Determination of when standby time shall be assessed by the contractor will be agreed upon by mutual consent between the contractor and the owner in advance when shut down notices are imminent.

As such, it is required that the contractor provide a schedule of rates for standby time by piece of equipment so that all such costs to the project are known in advance.

Measurement

Standby time will be calculated at the daily rate per piece of equipment as per the contractors bid price.

Payment

Payment shall be considered full compensation for all equipment, labor, tools, materials, and incidentals necessary to complete this work as specified.

**008 Additional 4" pump provision**

If additional water and sediment controls become required to prevent construction water from returning to the waterway, the Contractor shall supply additional 4" pumps to the project as requested by the Owner.

Additional 4" pumps provided by the contractor will be paid by the per day contract rate of this item. This item does not include the provision of backup pumps needed to replace primary pumps under item 003 due to mechanical pump failure.

Measurement

Measurement for additional 4" pump provision shall be per pump per day.

Payment

Payment shall be considered full compensation for all equipment, labor, tools, materials, and incidentals necessary to complete this work as specified.

**CONSTRUCTION QUANTITIES**

ITEM	QUANTITY	DESCRIPTION
COFFERDAM DEWATERING	~100 FT	1,000 GPM; 200 FT DISCHARGE
EXCAVATION & BACKFILL	170 CY	NATIVE SOILS
LOGS WITH ROOTWADS, SHORT	27	DOUGLAS FIR; 18" DBH x 12' LONG
LOGS WITH ROOTWADS, LONG	12	DOUGLAS FIR; 18" DBH x 40' LONG
LOGS, NO ROOTWAD	16	DOUGLAS FIR; MIN 18" DIA x 40' LONG
VERTICAL LOG PILES	12	DOUGLAS FIR; 16-18" DIA x 40' LONG
3/8" CABLE	250 FT	12 LOG-LOG CONNECTIONS
3/8" CLAMPS	24	2 CLAMPS PER
BOULDERS, LARGE	18	MIN 42" DIA, 23 CU.FT., 1.9 TON EA
BOULDERS, SMALL	54	MIN 30" DIA, 8 CU. FT., 0.7 TON EA
1/2" CABLE	800 FT	45 LOG-BOULDER-LOG CONNECTIONS
1/2" CLAMPS	90	MIN 2 CLAMPS PER
MULCH	1.5 TONS	
ROAD REPAIR	290 LF; 3,125 SF	4" BLANKET ROAD GRAVEL, BLADED AND COMPACTED

SMALL TREES AND SHRUBS REMOVED FROM THE WORK AREA SHALL BE INCORPORATED INTO THE LOG STRUCTURES.

NO.	BY	DATE	REVISION	DESCRIPTION

RP,DF	MB,MM,RP	MB,MM
DRAWN	DESIGNED	CHECKED
MB	12/04/2013	
APPROVED	DATE	PROJECT

Confederated Tribes and Bands of the Yakama Nation  
Methow River Habitat Enhancement  
Two Channels Riprap Enhancement



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Hood River, OR 97031  
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SPECIFICATIONS &  
CONSTRUCTION QUANTITIES

# **Exhibit A – Scope of Work Template**

## **Overview**

Yakama Nation Fisheries (Owner) is conducting an in-stream salmon habitat restoration project along the Methow River known as the Two Channels Large Wood Enhancement Project.

The project site is located at WDFW Parcel 3422300080 near 70 Old Twisp Highway South, Twisp, WA 98856.

All work on this project will be directed by the Owner's Designated Representatives. All project specifications including technical specifications, engineered plan sheets, material standards, and quantities are contained within the attached **Exhibit D, Project Plans**. No changes to the Project Plan will be allowed without prior approval from the Designated Representatives.

The attached **Exhibit B** provides the contract Line Item Budget which is referenced to the Work Tasks described on the Specifications Sheet in **Exhibit D**. **Exhibit C** outlines the payment plan associated with this contract.

## **Designated Representative**

The Owner's Designated Representatives for this project include Yakama Nation Habitat Biologist Hans Smith, as well as other Yakama Nation Habitat Biologists associated with the Yakama Nation Upper Columbia Habitat Restoration Project and construction oversight staff provided by the engineering firm who produced the project planset.

## **Project Tasks**

All Project Tasks will be completed as per **Exhibit D**. Major project elements include but are not limited to the following:

- Mobilization
- TESC, SPCC Plan and Implementation
- Temporary Cofferdams
- Pile Ballasted Structure Installation
- Boulder Ballasted Structure Installation
- Mulching
- Driveway Repair

## **Contractors Obligations**

The Contractor shall furnish all supervision, labor, equipment and tools necessary to complete the project as described in **Exhibit D**.

The Contractor shall abide by all stipulations put forth through the Washington State Department of Fish and Wildlife Right of Entry Authorization granted for this project under the Yakama Nation / Washington State Department of Fish and Wildlife Habitat Restoration Project Memorandum of Understanding.

### **Consistent Satisfactory Progress**

Consistent satisfactory progress in construction of this project will be required. Satisfactory progress will be measured by both the quality and quantity of work. If for any reason no work is performed for a period of 10 consecutive days, the contractor may be given a notice of contract cancellation. Consistent satisfactory progress will also be determined by the contractor's demonstrated ability to perform all work tasks described in Exhibit D within the permitted in-water work windows. If it appears that the contractor is unable to complete the project tasks within the permitting work window the contractor may be given a notice of contract cancellation. The Owner's Designated Representatives will monitor progress closely.

### **Project Timeline and Construction Hours**

This project will occur adjacent to private lands containing inhabited residences. Construction noise disturbances outside of normal work hours will not be allowed. Work producing construction noise should be conducted between 7:30 am and 5:30 pm.

Environmental permits for this project require the work be performed during the normal in-water work window for the Methow River to avoid adverse impacts to spawning salmonids and fertilized redds. Additionally, adjacent landowner preferences dictate that this project be performed no earlier than July 15, 2014 and completed no later than July 31, 2014.

### **Fish Removal**

In-water construction activities will require fish removal of all isolated in-water work sites. Fish removal will be conducted in a timely manner by the Owner's Designated Representatives and the time taken to implement proper fish removal protocols will be considered incidental to the contractor's work tasks.

### **Standby Time**

The contractor shall notify the Owner in advance of any intent to charge for standby time. Prior to invoicing for any standby time, the contractor must receive notice in writing from the Owner's Designated Representatives that standby time is an applicable charge due to construction halting events related to environmental or permitting conditions outside of the control of the Owner or the Contractor. Standby time will be calculated at the daily rate per piece of equipment as per the Contractors bid price. Standby time charges will only apply to full work days where construction activities are not possible and will not be pro-rated by partial work days or hours on standby.

### **Dust Abatement**

Contractor will provide dust abatement as per County and Local ordinances.

### **Fire Suppression**

The contractor will be familiar with and prepared for the requirements associated with IFPL Levels II & III and the restrictions associated with those.

### **Road Signage**

The Contractor will observe all road signage regulations regardless of the project location and **as per Exhibit D if applicable.**

**Utilities Location**

The Contractor will locate all utilities prior to any excavation.

**Communication with Landowners**

The Contractor expressly agrees that Contractor and his staff will not communicate with the Landowner in any manner, whether it be in regard to the project or otherwise, without express permission from, or the presence of the Designated Representative.

**Exclusivity**

During the term of this Agreement, including time taken for mobilization and demobilization of construction equipment, Contractor shall not conduct any work on the property designated in this Agreement unless so directed by the Designated Representative. Contractor shall require in all contracts with subcontractors that subcontractors not conduct any work on the property designated in this Agreement unless so directed by the Designated Representative. Any additional work conducted on the property designated in this Agreement by Contractor without the express consent of the Designated Representative shall constitute a material breach of this Agreement, thereby relieving the Yakama Nation from all payment obligations to the Contractor.