

# FAX TRANSMITTAL

<b>ADDENDUM TO THE CONTRACT DOCUMENTS</b>	<b>Page Number</b> <b>1</b>	<b>No. of Pages</b> <b>11</b>
<b>Addendum No. One (1)</b>	<b>Date Addendum Issued: March 30, 2016</b>	
<b>Issuing Office</b> Alaska State Parks, Design & Construction Section 550 West 7 <sup>th</sup> Ave., Suite 1340, Anchorage, Alaska 99501 Phone: 269-8731 Fax: 269-8917	<b>Previous Addenda Issued</b>  <b>None</b>	
<b>Project: Kasilof River SRS Riverbank Restoration</b> <b>Project No.: 73057-1</b>	<b>Date and Hour of Quotes Due</b> <b>April 5, 2016 2:00pm prevailing time</b>	

## NOTICE TO BIDDERS

**Bidder must acknowledge receipt of this addendum prior to the hour and date set for the quotes being due by one of the following methods:**

- (a) By acknowledging receipt of this addendum on the quote submitted.
- (b) By telegram or telefacsimile which includes a reference to the project and addendum number.

The bid documents require acknowledgment individually of all addenda to the drawings and/or specifications. This is a mandatory requirement and any quote received without acknowledgment of receipt of addenda may be classified as not being a responsive bid. If, by virtue of this addendum it is desired to modify a quote already submitted, such modification may be made by telegram or telefacsimile provided such a telegram or telefacsimile makes reference to this addendum and is received prior to the opening hour and date specified above.

\*\*\*\*\*

### The Bid Documents Are Modified As Follows:

Replace Bid Schedule of the of the Bid Documents with Addendum No. 1 - Attachment A

### The Specifications Are Modified As Follows:

Replace sheets 16-18 of the Specifications with Addendum No. 1 – Attachment B  
 Replace sheet 28 of the Specifications with Addendum No. 1 – Attachment C  
 Replace sheet 37 of the Specifications with Addendum No. 1 – Attachment D  
 Replace sheet 43 of the Specifications with Addendum No. 1 – Attachment E

### The Plans Are Modified As Follows:

Replace sheet 6 of the Plans with Addendum No. 1 – Attachment F

**Bidders are required to acknowledge this addendum on the proposal form  
or by FAX prior to the quotes being due.**

\*\*\*\*\*

Addendum Number **One** received.

Name/Title	Date

Firm

**END OF ADDENDUM**

**BID SCHEDULE**

STATE OF ALASKA – DEPARTMENT OF NATURAL RESOURCES – DIVISION OF PARKS AND OUTDOOR RECREATION

Project Name: **Kasilof River SRS Riverbank Restoration**

Project Number: **73057-1**

Before preparing this bid schedule, read carefully, Section 102 of the 2004 edition of the Standard Specifications for Highway Construction, and the following:

The Bidder shall insert, as called for, a unit price or lump sum price in figures opposite each pay item for which an estimated quantity appears in the bid schedule. A unit price or lump sum price is not to be entered or tendered for any pay item not appearing in the bid schedule. The estimated quantity of work for payment on a lump sum basis will be "All Required" (All Req'd) and as further specified in the contract.

Whenever a Contingent Sum is shown for any item in this schedule, such amount shall govern and be included in the bid total.

Conditioned or qualified bids will be considered non-responsive.

Notice: Bids will be compared on the basis of the adjusted bid amount for determination of the low bidder. Contract award will be made on the basis of the basic bid or the basic bid plus additive alternate(s) to the extent of the availability of construction funds. If the order of bidders is not affected, award may be made on any combination of alternates. If the order of bidders is affected, award may be made on any number of alternates in the order listed, or none, as may be in the best interest of the Department. Alternates are not, however, part of the basic bid.

The bidder shall insert a unit bid price for each pay item listed below. Type or print legibly.

Pay Item Number	Pay Item Description	Pay Unit	Quantity	Unit Bid Price	Amount Bid
***** BASIC BID *****					
201(3B)	Clearing and Grubbing	L.S.	All Req'd	\$	\$
505(5-6)	Furnish 6 Inch Structural Steel Pile	L.F.	136	\$	\$
505(6-6)	Drive 6 Inch Structural Steel Pile	Each	8	\$	\$
621(5)	Vegetative Mat	S.Y.	160	\$	\$
621(6)	Root Wad Revetment	L.F.	100	\$	\$
621(7)	Brush Layering	L.F.	100	\$	\$
640(1)	Mobilization and Demobilization	L.S.	All Req'd	\$	\$
641(1)	Erosion Sediment and Pollution Control	L.S.	All Req'd	\$	\$

BID SCHEDULE  
Kasilof River SRS  
Riverbank Restoration  
Project No. 73057-1

Name of Bidding Firm \_\_\_\_\_

Pay Item Number	Pay Item Description	Pay Unit	Quantity	Unit Bid Price	Amount Bid
***** CONTINUE BASIC BID *****					
641(2)	Temporary Erosion Sediment and Pollution Control	C.S.	All Req'd	<b>\$2,000.00</b>	<b>\$2,000.00</b>
<del>641(3)</del>	<del>Temporary Erosion Sediment and Pollution Control</del>	<del>C.S.</del>	<del>All Req'd</del>	<del>\$</del>	<del>\$</del>
642(2)	Construction Surveying	L.S.	All Req'd	\$	\$
643(2)	Traffic Maintenance	L.S.	All Req'd	\$	\$
647(6)	Hydraulic Excavator, 1 CY, 100 HP Minimum	Hour	5	\$	\$
650(12)	ELP Walkway	L.S.	All Req'd	\$	\$
650(12A)	Steel Stair Tread	L.S.	All Req'd	\$	\$
650(12B)	Aluminum Stair Tread	Each	8	\$	\$
653(3)	Articulated Concrete Mat	S.F.	435	\$	\$
a) TOTAL BASIC BID (BB)					\$

Pay Item Number	Pay Item Description	Pay Unit	Quantity	Unit Bid Price	Amount Bid
***** ADDITIVE ALTERNATIVE 1 *****					
AA1 650(65)	Rock Removal	L.S.	All Req'd	\$	\$
AA1 653(3)	Articulated Concrete Mat	S.F.	188	\$	\$
a) TOTAL ADDITIVE ALTERNATIVE 1					\$

No: \_\_\_\_\_ Expires \_\_\_\_\_  
Alaska Business License

No: \_\_\_\_\_ Expires \_\_\_\_\_  
Alaska Contractor's License

BID SCHEDULE  
Kasilof River SRS  
Riverbank Restoration  
Project No. 73057-1

Name of Bidding Firm \_\_\_\_\_

**621-2.07 BRUSH LAYERING.** Brush layering will be composed of dormant cuttings conforming to the willow species described under this Section. Brush branches shall be 1/2 to 1-1/2 inches in diameter with a minimum length of 4 feet. All material shall be cut and trimmed prior to being tamped into the prepared and approved site. Brush material shall be soft and flexible. Old material will not be acceptable.

**621-2.08 WILLOW SPECIES.** Acceptable willow species are as follows:

Feltleaf Willow (*Salix alaxensis*)

Pacific Willow (*Salix lasiandra*)

Barclay Willow (*Salix barclayi*)

**621-2.09 FERTILIZER.** Use a regular release, 8-32-16 (nitrogen-phosphoric acid-potassium) fertilizer in granular form with seedlings, shrubs, and willow bundles. The fertilizer shall be mixed with soil at the manufacturer's recommended application rate.

**621-2.10 SELECTED MATERIAL, TYPE C.** Shall be in accordance with Section 703-2.07.

**621-2.11 REBAR.** Rebar shall be #4 size and meet or exceed the requirements of ASTM A615 for grade 40.

## CONSTRUCTION REQUIREMENTS

**621-3.01 GENERAL.** Revegetation methods and techniques shall be in accordance with Alaska Fish & Game publication *Stream bank Revegetation and Protection a Guide for Alaska* Revised 2005. A digital copy can be found at:

[https://www.adfg.alaska.gov/static/home/library/pdfs/habitat/98\\_03.pdf](https://www.adfg.alaska.gov/static/home/library/pdfs/habitat/98_03.pdf)

Submit a plant material plan one week minimum prior to harvest detailing location of harvest sites and dates, plant material consultant name and qualifications, and harvesting methods. Contractor shall schedule his delivery to the site so that the materials can be installed the day they arrive.

**621-3.02 HARVESTING AND PLANTING SEASON.** Harvesting of willow shall take place during its dormant stages. Harvesting of vegetative mat shall take place between May 15 and June 30 and shall be re-planted within 2 days of harvesting. Refer to Alaska Fish & Game publication *Stream bank Revegetation and Protection a Guide for Alaska* Revised 2005 pages 16-20.

Care shall be exercised to retain as much soil as possible in the natural state around the roots during digging, hauling, and placing.

**621-3.03 VEGETATIVE MAT.**

The mat shall be placed so as to provide a smooth finished surface. Plant mat to an elevation that approximates the elevation of the surrounding vegetation as directed by the Engineer. Vegetative mat may be watered to provide easier handling from the

SPECIAL PROVISIONS

Kasilof River SRS

Riverbank Restoration

Project No. 73057-1

existing source. Vegetative mat shall be kept moist from the time it is dug until it is planted. Care shall be exercised to retain as much soil as possible in the natural state around the roots during digging, hauling, and placing. Transplanting each mat shall be completed in 2 days. Vegetative mat shall be watered within one hour of planting. Subsequent watering shall be required until final acceptance of the Project.

**621-3.04 ROOT WAD REVETMENT.** Root wad construction methods and techniques shall be in accordance with Alaska Fish & Game publication *Streambank Revegetation and Protection: A Guide for Alaska* Revised April 2005 pages 70-75. Bank section and details shall be as shown in the plans.

Install in accordance with the Plans. Excavate trenches deep enough to set the tree trunk at approximately ordinary high water (OHW) level and allow for tree trunk to be sloped down into the bank. Excavate the ground to embed part of the root fan. Root fans shall be overlapped 3 to 4 feet, enough to provide a continuous line along the bank.

**621-3.05 BRUSH LAYERING.** Place 15 dormant stems per linear foot **on each row of coir fabric which is 30 stems per linear foot of brush layering.** Cuttings shall be soaked in cool/cold water from 6-48 hours directly before planting to improve survivability. On site, the cuttings shall be stored away from direct sunlight, heeled into moist soil, or stored in water until planting. Do not have cuttings in water for more than 4 days.

**621-3.06 MAINTENANCE AND REPAIR.** Maintenance shall begin immediately after each vegetative mat has been installed. It shall continue through completion of the project and for one complete growing season.

1. Repair gully erosion and washouts.
2. Install approved pedestrian safety fence on all sides of completed bank restoration area. Protect installation at all times against trespassing and damage of any kind for the maintenance period. If any areas become damaged or injured, they shall be repaired or replaced by the Contractor as directed by the Engineer at no additional cost to the Department. No work shall be done within, adjacent to, or over any installed area without proper safeguards and protection of the installations. Existing trees and vegetation shall also be protected during construction activities.
3. The Contractor shall be responsible for keeping all installations and work incidental thereto in good condition, and performing all other necessary operations to care for promotion of root growth and plant life so that all work is in satisfactory and acceptable condition.
4. All installation and plant material required by this contract shall be in satisfactory and acceptable condition when the Contractor applies for payment.

#### SPECIAL PROVISIONS

Kasilof River SRS  
Riverbank Restoration  
Project No. 73057-1

5. The project site, harvesting site, and surrounding areas shall be continuously kept clean when construction installation and maintenance operations are in progress. The entire work area shall be cleaned at the end of each day's work.

(07/07/15)PARKS-Special Provision

**621-4.01 METHOD OF MEASUREMENT.** Item 621(5) Vegetative Mat will be measured per square yard of area covered and accepted in place. ~~All labor, equipment, and materials for the work listed below are subsidiary to Item 621(5) Vegetative Mat.~~

- ~~1. harvest for use as vegetative mat~~
- ~~2. haul and placement of vegetative mat~~
- ~~3. water, maintenance, and repair~~

Item 621(6) Root Wad Revetment shall be measured by the linear foot along the protected riverbank measured in place from the centers of the root wads on the extreme ends. ~~All labor, equipment, and materials for the work listed below are subsidiary to Item 621(6) Root Wad Revetment.~~

- ~~1. excavation in root wad revetment location~~
- ~~2. root wad, coir fabric, topsoil, porous backfill, and geotextile materials and placement~~
- ~~3. maintenance and repair~~

Item 621(7) Brush Layering will be measured by the linear foot measured in place and ~~include all labor, equipment, and materials for installation of dormant stems.~~  
**621(7) Brush Layering includes two rows of willow branches totaling in 30 dormant stems per linear foot (15 stems per linear foot on each row).**

**621-5.01 BASIS OF PAYMENT.** The quantities determined as provided above, will be paid for at the contract price per unit of measurement, for each of the particular pay items listed below that appear in the bid schedule, which prices and payment will be full compensation for furnishing and installing, maintenance care, and placing all other materials, including all labor equipment, tools, incidentals necessary to complete work described in this Section.

Harvesting, **hauling**, placement, **repair**, and maintenance of vegetative cover will be paid for under Item 621(5) Vegetative Mat. All required maintenance so as to ensure sufficient growth, to include watering, and repair of any disturbed areas shall be considered subsidiary to Item 621(5) Vegetative Mat.

All work required to furnish material and construct the root wad revetment system as shown on the Plans will be paid for under Item 621(6) Root Wad Revetment. **Subsidiary work includes excavation, haul and placement of materials, and removal and disposal of excess excavation. Materials subsidiary to Item 621(6) Root Wad Revetment include root wad, coir fabric, topsoil, fertilizer, porous backfill, geotextile, rebar, and selected material, type C, and all other miscellaneous items required to complete the work per the plans.**

#### SPECIAL PROVISIONS

Kasilof River SRS  
Riverbank Restoration  
Project No. 73057-1

**Item 621(7) Brush Layering includes all labor, equipment, and materials for installation of dormant willow stems.**

Pedestrian Safety Fence shall be subsidiary to Item 643(2) Traffic Maintenance.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
621(5) Vegetative Mat	Square Yard
621(6) Root Wad Revetment	Linear Foot
621(7) Brush Layering	Linear Foot

(07/07/15)PARKS-Special Provision

Item 641(2) Temporary Erosion, Sediment and Pollution Control. At the contingent sum prices specified for all labor, supervision, material, equipment, and incidentals to install, maintain, remove and dispose of approved temporary erosion, sedimentation, and pollution control BMPs required to implement the ESCP and SPCC Plan.

~~Item 641(3) Temporary Erosion, Sediment and Pollution Control.~~ At the Contract lump sum price for all labor, supervision, material, equipment, and incidentals to install, maintain, remove and dispose of temporary erosion, sedimentation, and pollution control BMPs identified in the ESCP and SPCC Plan.

Subsidiary Items. Temporary erosion, sediment, and pollution control measures that are required outside the Project Area are subsidiary. Work required by the HMCP and SPCC Plan including hazardous material storage, containment, removal, cleanup and disposal, are subsidiary to Item 641(1) Erosion, Sediment and Pollution Control Administration.

Work under other pay items. Work that is paid for directly or indirectly under other pay items will not be measured and paid for under Section 641. This work includes but is not limited to:

- a. Dewatering;
- b. Shoring;
- c. Bailing;
- d. Permanent seeding;
- e. Installation and removal of temporary work pads;
- f. Temporary accesses;
- g. Temporary drainage pipes and structures;
- h. Diversion channels;
- i. Settling impoundment; and
- j. Filtration.

Permanent erosion, sediment and pollution control measures will be measured and paid for under other Contract items, when shown on the bid schedule.

Work at the Contractor's Expense. Temporary erosion, sediment, and pollution control measures that are required due to carelessness, negligence, or failure to install temporary or permanent controls as scheduled or ordered by the Project Engineer, or for the Contractor's convenience, are at the Contractor's expense.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
641(1) Erosion, Sediment, and Pollution Control Administration	Lump Sum
641(2) Temporary Erosion, Sediment, and Pollution Control	Contingent Sum
<del>641(3) Temporary Erosion, Sediment, and Pollution Control</del>	<del>Contingent Sum</del>

(10/20/11)PARKS-Special Provision

SPECIAL PROVISIONS  
Kasilof River SRS  
Riverbank Restoration  
Project No. 73057-1

2. Metal Primer Paint. As recommended by enamel paint manufacturer.
3. Enamel Paint. Exterior alkyd base gloss enamel. Color to match oil stain color.
4. Above Ground Wood Preservative. Brown preservative with active ingredient of minimum 9.08 percent copper naphthenate (equivalent to minimum 1 percent metallic copper). Color to be approved by Engineer.
5. End Cut Preservative for Treated Wood. Brown preservative with active ingredient of minimum 10 percent copper naphthenate (equivalent to minimum 1 percent metallic copper). Color to match preservative pressure treatment color.

Paint that has been frozen or is out of date shall be replaced at no additional cost to the Department.

**650-2.09 STRUCTURAL STAINLESS STEEL.** Conform to the requirements of AISI 300 Series, Type 316.

**650-2.10. STAINLESS STEEL CABLE.** Shall be 1x19 thread structure and conform to the requirements of AISI 316 with a minimum thickness of 1/8 inch.

**650-2.11 STRUCTURAL ALUMINUM.** Conform to the requirements of ANSI 6061-T6.

**650-2.12 FIBERGLASS GRATING.** Corrosion resistant, slip-resistant, **pultruded** fiberglass grating with UV protection and Class 1 flame rating of 25 or less per ASTM E-84 or better. Color shall be dark gray. Use hold down clips as recommended by the manufacturer.

1. Decking.

Depth: 1.0 inches  
Open Area: 60% Minimum  
Deflection: 0.40 inches or less when spanned 36 inches and loaded at 110 psf  
ADA Compliant: grate has openings of 1/2 inch or less  
Color: dark gray  
Use: Ecograte® 62 Molded Grating or equal

2. Stair Treads.

Depth: 1.5 inches  
Open Area: 25% Minimum  
Deflection: 0.40 inches or less when spanned 48 inches and loaded with 500 lbs  
ADA Compliant: meaning grate has openings of 1/2 inch or less  
Color: dark gray with yellow nosing  
Use: Safe-T-Span® 1-1/2 inch Deep, I4015 or equal

**CONSTRUCTION REQUIREMENTS**

**653-3.01 GENERAL.** It is expected that work will occur during a seasonal period of low river depth, therefore a dewatered footprint is anticipated to be encountered in the field. Work performed on the ACM be isolated from the main body of water using a siltation device such as a silt-fence or an approved equal capable of retaining sediment within the work area. If a high water level is encountered, in-water work shall be isolated from the main body of water using a cofferdam system to enclose the work area. Siltation devices, cofferdam systems, or any approved sediment retention system shall remain installed until all work on the ACM has been completed.

Material excavated shall be removed and disposed of in an upland location. It is anticipated that a 1 foot of excavation will be required beneath the articulated concrete mat.

Fuel, Lubricants, or other hazardous substances shall not be stored below the ordinary high water level of the Kasilof River.

**653-3.03 ARTICULATED CONCRETE MAT.** Selected Material, Type A will be used as backfill to level of the bottom of articulated concrete mat and compacted.

Geotextile shall be placed between the bottom of the concrete mat and sloped surfaces.

The concrete matting shall be laid parallel to the existing boat ramp to the dimensions shown on the plans. A minimum of 2 clamps shall be used at each intersection point between different sections of matting. Spaces between the concrete blocks and between the matting and boat ramp shall be filled with Joint Aggregate.

**653-4.01 METHOD OF MEASUREMENT.**

Articulated Concrete Mat will be measured by the square foot in place. ~~Joint aggregate, Selected Material, Type A, and excavation for ACM shall be considered subsidiary to item 653(3) Articulated Concrete Mat and item AA1 653(3) Articulated Concrete Mat.~~

**653-5.01 BASIS OF PAYMENT.**

**Items 653(3) Articulated Concrete Mat and AA1 653(3) Articulated Concrete Mat** shall be paid for at the contract unit price per square foot completed and accepted in final position. ~~Compensation includes costs for~~ **All** labor, equipment, and materials such as joint aggregate, articulated concrete mat, geotextile, joint aggregate, Selected Material, Type A, **cables**, and connection devices, **excavation, and removal and disposal of excavation, and all other miscellaneous Items required to complete the work per the plans will be considered subsidiary to Item 653(3) & AA1 653(3).**

Payment will be made under:

Pay Item	Pay Unit
653(3) Articulated Concrete Mat	Square Foot
AA1 653(3) Articulated Concrete Mat	Square Foot

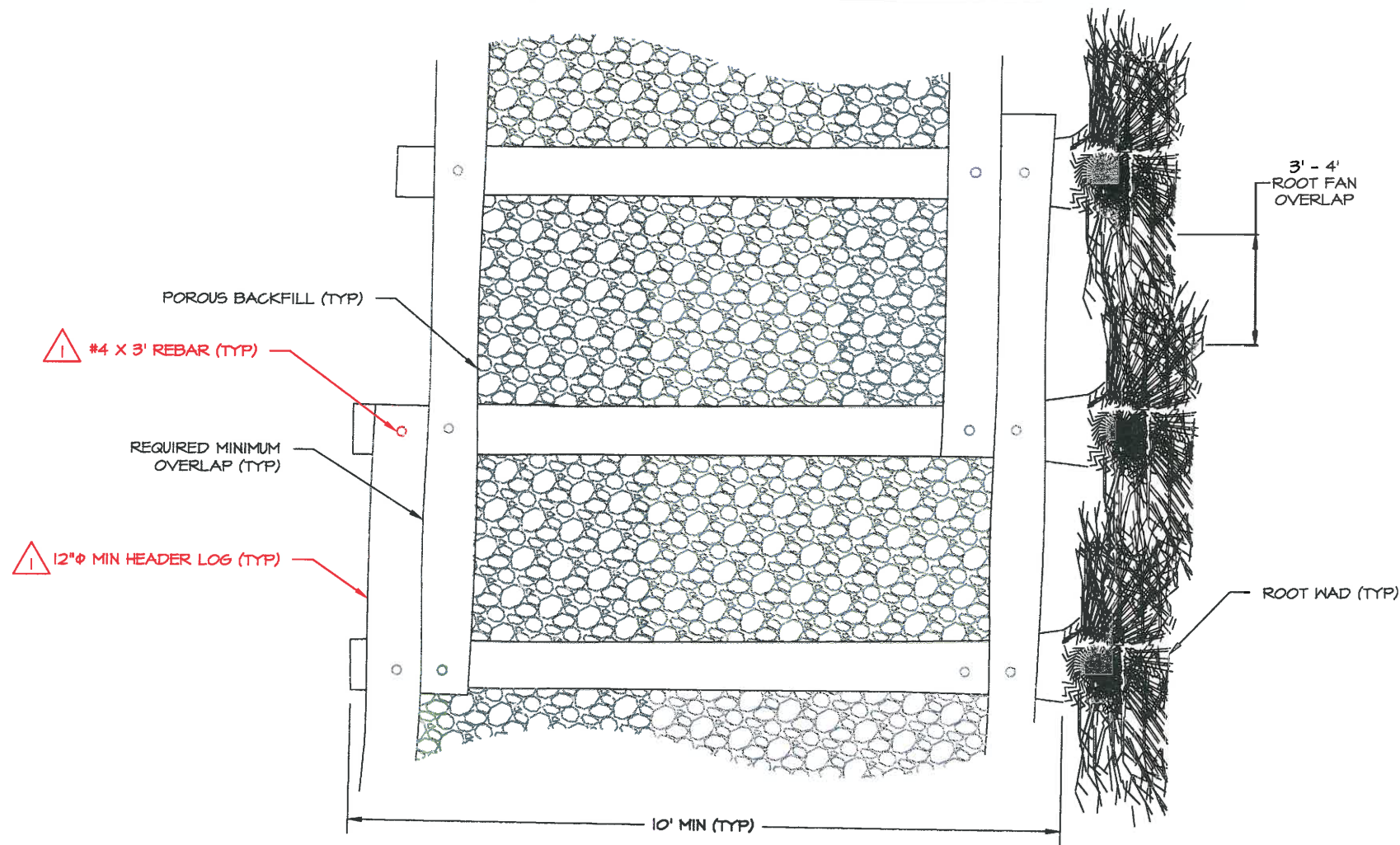
(03/04/10)PARKS-Special Provision

SPECIAL PROVISIONS  
Kasilof River SRS  
Riverbank Restoration  
Project No. 73057-1

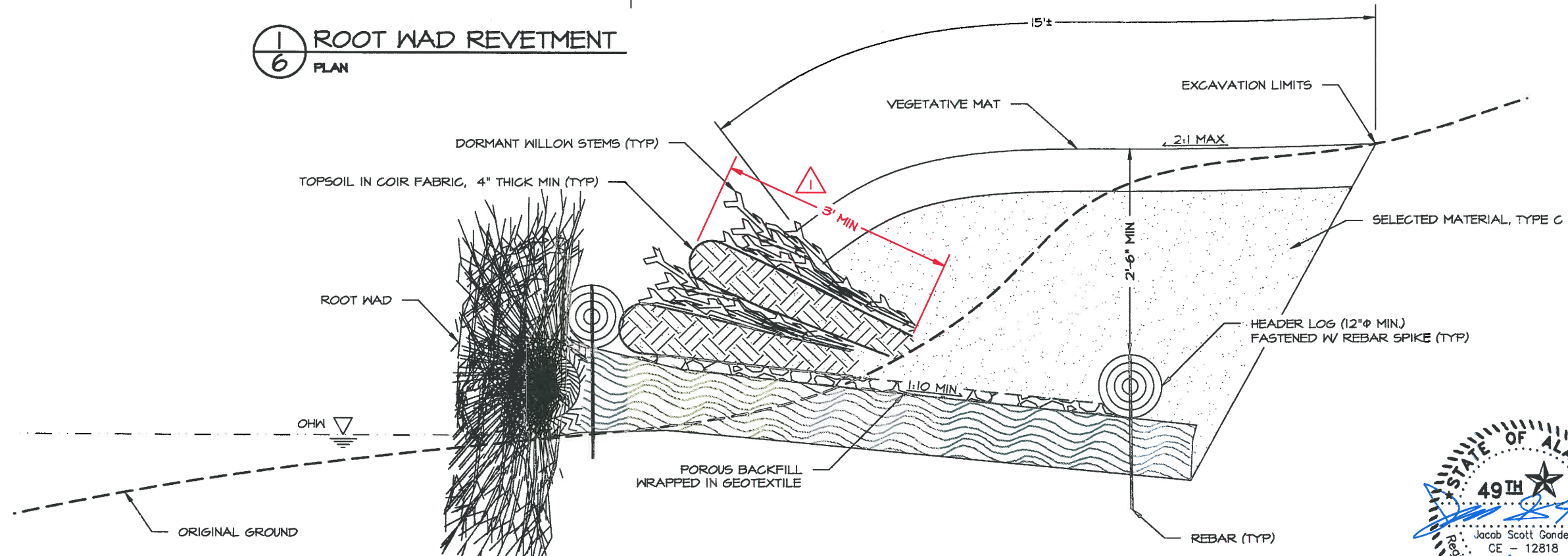


PREPARED: RDR  
DRAWN: RDR  
REVIEWED: JSG  
DATE: MAR. 2016

SHEET  
6  
OF 15 SHEETS



1 ROOT WAD REVETMENT  
6 PLAN



2 ROOT WAD REVETMENT  
6 TYPICAL SECTION

- NOTES:
1. NOT TO SCALE.
  2. ENGINEER & CONTRACTOR SHALL CONFIRM OHW ELEVATION PRIOR TO COMMENCING WITH ROOT WAD REVETMENT WORK.

