

Preliminary – Not for Construction

QWULOOLT ESTUARY RESTORATION PROJECT – INTERNAL ELEMENTS

Construction Specifications Special Provisions

Prepared for:
Tulalip Tribes
Natural Resources

August 2012



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CONTRACT SPECIAL PROVISIONS ENGINEER'S REVIEW AND PARTICIPATION
NOTIFICATION.

The Professional Engineer's seal and signature affixed heron indicates the Engineer's review and participation in the preparation of these Contract Special Provisions.

Bob Battalio, P.E. C42109 Exp: (ADD DATE)
Engineer's Name

Date: _____

ESA
Firm

INTRODUCTION

The following Amendments and Special Provisions shall be used in conjunction with the WSDOT 2012 Standard Specifications for Road, Bridge, and Municipal Construction.

The following Amendments to the Standard Specifications are made as a part of this contract and supersede any conflicting provisions of the Standard Specifications. For informational purposes, the date following each Amendment title indicates the implementation date of the Amendment or the latest date of revision.

Each Amendment contains all current revisions to the applicable section of the Standard Specifications and may include references which do not apply to this particular project. Special Provisions are included herein noted with SP at the beginning of the number designator and (NEW) in parenthesis.

DIVISION 1 GENERAL REQUIREMENTS

Section 1-01 Definitions and Terms – Local Agency

The following substitution of words shall prevail in the Standard Specifications: Wherever the word “State” is used, it shall be replaced with the Tulalip Tribes.

Section 1-04, Scope of the Work

Section 1-04 is revised to read as follows:

The intent of the Contract is to prescribe a complete Work. Omissions from the Contract of details of Work that are necessary to carry out the intent of the Contract shall not relieve the contractor from performing the omitted Work.

The Work of this Contract includes, but is not limited to the following:

1. Excavation of portions of new channels for Allen and Jones Creeks within the Qwuloot Estuary Restoration Site.
2. Installation of wave attenuation Wetland and Riparian berms.
3. Placement of fill within existing linear ditches.
4. Appropriate sediment and erosion control measures to avoid impacts to Allen and Jones Creeks and Ebey Slough.

The Work described herein is a portion of a larger effort that includes other elements not in this contract such as infrastructure modifications, installation of a fill pad, installation of a setback levee, and breach of the Ebey Slough levee.

The Work described herein has been phased to coordinate with the construction of these other elements, and is partially dependent on these elements for excavation spoils. Some elements of this project are called “Phase 2” and cannot occur until after work by others is accomplished. Phase 2 is assumed to occur in 2013. The Contractor shall coordinate with the Project Representative to interface with the other elements, which may occur concurrently with this Work.

The Work shall be accomplished in full compliance with the project permits which are incorporated into the construction contract by reference and provided by the Tulalip Tribe.

1-04.6 Variation in Estimated Quantities

The paragraph beginning with "if the adjusted final quantity of any items", is revised to read as follows:

If the adjusted final quantity of any item does not vary from the quantity shown in the proposal by more than 25%, then the Contractor and the Contracting Agency shall agree that all work under that item will be performed at the original contract unit price.

1-5 CONTROL OF THE WORK

1-05.4 Conformity With and Deviations from Plans and Stakes

The first sentence of Section 1-05.4 is revised to read as follows:

The Owner shall be responsible for project surveying and staking. The contractor shall conform to the grade stakes provided by the Owner.

1-8 PROSECUTION AND PROGRESS

1-08.3(2)A Type A Progress Schedule

This section is amended to include the following:

The Type A Progress Schedule shall include a work plan that summarizes the approach to the work and timing of Phase 1 and Phase 2 elements. The Type A Progress Schedule shall be submitted within 2 weeks of signing the contract, for approval by Project Representative prior to any on site work.

Workplan shall identify proposed locations for staging, stockpiling, and equipment refueling.

DIVISION 2 EARTHWORK

2-01 CLEARING, GRUBBING, AND ROADSIDE CLEANUP

2-01.3 Construction Requirements

2-01.3(1) Clearing

This section is revised to read:

Clearing of excavation areas shall consist of mowing existing grass and/or shrubs prior to excavation. Clearing limits to be established by the Project Representative and will typically include the excavation area and a distance of 20 lateral feet surrounding the limits of excavation. If trees are encountered within the excavation area, they shall be removed with the excavator and placed either in the new channel or in the riparian berms at the direction of the Project Representative.

Section 2-03, Roadway Excavation and Embankment

2-03.1 Description

Section 2-03.1 is revised to read as follows:

This work consists of excavating new channels, filling existing channels and drainage ditches to the required lines, grading, culvert removal, and placing excavated material adjacent to the new channel as shown in the plans.

2-03.3 Construction Requirements

Section 2-03.3 is revised to read as follows:

Before excavating any open ditch, the Contractor shall establish construction circulation routes to the work areas and mark limits of construction as directed by the Project Representative. This work includes any temporary improvements necessary to prevent damage to existing roads and/or the marsh surface.

Before excavating or filling any open ditch, the Contractor shall ensure that fish removal and dewatering activities have been completed.

2-03.3(7) Disposal of Surplus Material

Section 2-03.3(7) is revised to read as follows:

All excavations will be balanced by on-site fill, typically in the form of wave attenuation berms and ditch fill. No off-site haul shall occur. Excavation spoils will also be generated by other projects on the same project site, generally along the levee alignment on the west side of the site.

2-03.3(14)M Excavation of Channels and Ditches

Section 2-03.3(14) is revised to read as follows:

Channel Excavation includes all linear excavations for Allen and Jones Creeks as shown on the Plans.

Contractor shall mow all channel excavation areas at the direction of the Project Representative.

The Contractor shall stockpile excavated material for use in filling the abandoned portions of the existing ditches.

SP 2-03.3(20) Wave Attenuation Berms (NEW)

The contractor shall install Wetland and Riparian berms as shown on the Drawings using excavation spoils from channel excavations. Locations of the berms will be staked by the Owner with stakes on centerline.

Riparian berms shall include Topsoil Type A as the upper 3 feet, compacted as detailed on the Drawings. Riparian berms shall be completed in Phase 1 as defined on the Drawings. Topsoil Type A shall be as specified in 9-14.1(1).

SP 2-03.3(21) Ditch Fill (NEW)

Contractor shall fill ditches as shown on the Drawings using excavation spoils from channel excavations. Locations of the ditch fill will be staked by the Project Representative. If Ditch Fill terminates leaving a portion of the existing ditch, the end of the fill shall be tapered at 3H:1V and bucket compacted in 1.5 ft lifts. Ditch fill will generally occur in Phase 2, and will be the lowest priority for use of excavation spoils.

If insufficient excavation spoils are available to complete ditch fill as shown on plans, discontinuous blocks shall be installed at the direction of the project representative.

SP 2-03.3(22) Ditch Block (NEW)

Contractor shall install ditch blocks as shown on the Drawings using select fill. For Ditch Block, select fill will include less than 5% organic material, will not be saturated, and will be able to obtain 95% compaction by proctor. Ditch block will occur in Phase 1 to allow Allen Creek to enter its new alignment.

2-03.4 Measurement

Section 2-03.4 is amended to read as follows:

Channel Excavation will be measured by cubic yard. Volume will be determined by the Owner's survey that will be measured in the position it occupied before the excavation was performed. Original ground as represented in the Drawings using cross-section or digital terrain modeling survey techniques will be compared to the planned finished section shown in the Plans. Slope/ground intercept points defining the limits of the measurement will be as staked.

Wetland Berms will be measured by linear foot installed and accepted by the Project Representative. Survey will be performed by the Project Representative and shared with Contractor.

Riparian Berms will be measured by linear foot installed and accepted by the Project Representative. Survey will be performed by the Project Representative and shared with Contractor.

Ditch Fill will be measured by linear foot installed and accepted by the Project Representative. Pre-construction survey will be performed by the Project Representative and shared with Contractor. Post-construction acceptance will visually inspect filled area.

Ditch Block will be measured by each. Measurement includes haul and placement of select fill and labor to install, including over-excavation. Measurement shall not include erosion control blanket.

2-03.5 Payment

Section 2-03.5 is supplemented to read as follows:

Payment will be made in accordance with Section 1-04.1, for the following bid items:

“Channel Excavation”, per cubic yard

The pay item for channel excavation shall cover all costs for excavation and temporary stockpile of excavated material on site.

“Wetland Berm”, per linear foot.

The per linear foot measurement will include haul to placement location, all stockpiling and sorting, and all labor and equipment to place the berms.

“Riparian Berm”, per linear foot.

The per linear foot measurement will include haul to placement location, all stockpiling and sorting, and all labor and equipment to place the berms.

“Ditch fill”, per linear foot.

The per linear foot measurement will include haul to placement location, all stockpiling and sorting, and all labor and equipment to place fill within the ditch.

“Ditch block”, per each

The per each measurement will include haul to placement location, all stockpiling and sorting, excavation of unsuitable material, and all labor and equipment to install the ditch block.

DIVISION 8 MISCELLANEOUS CONSTRUCTION

Section 8-01, Erosion Control and Water Pollution Control

8-01.1 Description

Section 8-01.1 is revised to read as follows:

This work consists of furnishing, installing, maintaining, removing, and disposing of water pollution and erosion control items in accordance with these Specifications, as described in the Stormwater Pollution Prevention Plan, and as shown in the Plans or as designated by the Project Representative.

8-01.3 Construction Requirements

8-01.3(2)E Soil Binding Using Polyacrylamide (PAM).

Section 8-01.3(2)E is revised to read as follows:

No PAM will be used on this site.

8-01.3(2)B Seeding and Fertilizing

Section 8-01.3(2)B shall be supplemented with the following:

Erosion Control Seed Mix shall be applied on the Riparian and Wetland Berms. Erosion Control Seed mix shall be as specified in 9-14.2 and shall be applied at a rate of 87 lbs/acre.

SP 8-03.20 Dewatering and Diversion (NEW)

Allen Creek shall be diverted prior to completing the up- and downstream connection points to the new channel. Jones Creek shall be diverted prior to connection to Outlet Channel in Phase 2. The contractor shall provide a dewatering plan showing materials and methods for diversion, depicted on a scaled plan. The plan shall include:

1. At least 5 business days' prior warning to the Project Representative to coordinate fish removal and relocation activities.
2. Diversion in place for the minimum time necessary to complete the connections and divert the creek.

3. Provisions for temporary diversion into the new channel to allow installation of ditch blocks or fill.
4. If a pump system is proposed, there shall be redundant systems and provisions to allow for storm events to overtop the system without damage to the stream channel.

8-01.4 Measurement

The first sentence of Section 8-01.4 shall be revised to read as follows:

Erosion Sediment Control (ESC) lead will be measured as a lump sum

Section 8-01.4 shall be supplemented with the following:

Dewatering and diversion will be measured by lump sum to include plan submittal, and all materials and labor to install and maintain the system.

8-01.5 Payment

Section 8-01.5 shall be revised as follows:

“ESC lead”, per day.

Shall be revised to read:

“ESC lead”, lump sum

Section 8-01.5 shall be supplemented with the following:

“Dewatering and Diversion”, lump sum

Division 9 Materials

Section 9-14 Erosion Control and Roadside Planting

9-14.1(1) Topsoil Type A

Section 9-14.1(1) shall be revised to read as follows:

Topsoil Type A shall be on-site excavated native soil from the upper 24 inches of excavation on the site.

9-14.2 Seed

Section 9-14.2 shall be supplemented with the following:

Erosion Control Seed Mix for the Riparian and Wetland Berms shall be the following:

Species	% Weight	% Purity	% Germination
Perennial Ryegrass	40	39.41	95
Creeping Red Fescue	40	39.32	87
Highland Colonial Bentgrass	10	9.93	90
White Dutch Clover	10	9.94	88