

DRAFT

CONSTRUCTION SPECIFICATIONS

*SPOKANE RIVER METALS SITES:
ISLAND COMPLEX AND MURRAY ROAD REMEDIAL ACTIONS
SPOKANE, WASHINGTON*

PREPARED FOR
WASHINGTON STATE DEPARTMENT OF ECOLOGY



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Prepared for
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SECTION 01010: SUMMARY OF WORK

1 PART 1 GENERAL

1.1 SECTION INCLUDES

- A. General description of Work covered by contract documents.
- B. Site location and access.
- C. Background information.
- D. Utility location.
- E. Permit requirements.
- F. Contractor use of site and premises.
- G. Work by Ecology.
- H. Construction sequencing.
- I. Construction time limits.

1.2 GENERAL DESCRIPTION OF WORK COVERED BY CONTRACT DOCUMENTS

- A. The Washington State Department of Ecology (Ecology) is conducting remedial actions at the Island Complex Recreational Area (IC) and the Murray Road sites as part of a Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) action. The Work included in this specification is for the IC and Murray Road sites only.
- B. Construct the work under a [contract type] contract.
- C. The Work consists of the construction of the Island Complex Remedial Action and the Murray Road Remedial Action in Spokane County, Washington. Complete the construction in accordance with the Drawings, Specifications, and other documents as referenced or included.
- D. Construction includes, but is not limited to furnishing all materials, labor, disposal of all waste materials, and all other work necessary to complete the work as defined in the Contract Documents.
- E. The specific elements of Work at the **Island Complex Site** include, but are not limited to:

1. Establishing pre-construction topographic site control surveying and staking
 2. Constructing a multilayer rock, gravel and soil cap with coir lifts over metals-contaminated soil as depicted on the project Drawings
 3. Capping an existing recreational trail with geotextile fabric and gravel and placing large boulders as trail markers
 4. Site earthwork and grading
 5. Environmental protection measures
 6. Protection of existing vegetation
 7. Construction Quality Control
 8. Soil Preparation to allow for planting
 9. Erosion and sedimentation control
 10. Survey of final grades and elevations of capped area
- F. The specific elements of Work at the **Murray Road Site** include, but are not limited to:
1. Establishing pre-construction topographic control surveying and staking
 2. Construction of four specific cap treatments for metals contaminated soils within four regions as delineated in the project Drawings
 3. Site earthwork and grading
 4. Environmental protection measures
 5. Protection of existing vegetation
 6. Construction Quality Control
 7. Soil preparation to allow for planting or hydroseeding
 8. Hydroseeding
 9. Erosion and sedimentation control
 10. Survey of final grades and elevations of capped areas
- G. Except as specifically noted, provide and pay for:
1. All labor, materials, and equipment
 2. All tools, incidentals, construction equipment, and machinery
- H. Pay legally required sales, consumer and use taxes.
- I. Give required notices.
- J. Comply with codes, ordinances, rules, regulations, orders, and other legal requirements of public authorities that bear on performance of the Work.
- K. Do not extend Work activity into areas not designated for construction or staging under this Contract.

1.3 SITE LOCATION AND ACCESS

- A. The Island Complex site is located within the banks of the Spokane River at approximate river mile 95.0 about 1.0 mile west of the Idaho State line in Spokane County, Washington. The site is located on land owned by the State of Washington and managed by the Washington Department of Natural Resources, and can be accessed via a 0.5-mile trail through parkland owned by Spokane County. The trailhead is located at a parking lot adjacent to the river near Exit 299 on I-90. Refer to the project Drawings for a site location map. During periods of seasonal low flow in the late summer and fall, the riverbed channels around the island are dry and the site is accessible by personnel and equipment.
- B. The Murray Road site is approximately 3 miles from the Island Complex Recreation Area. From the Island Complex site, the Murray Road project location can be accessed by going east on East Appleway Lane. East Appleway Lane crosses over the Spokane River and becomes West Seltice Way. From West Seltice Way, turn left at East Wellesly Avenue. From East Wellesly Avenue, turn left at North Murray Road. The site is at the corner of East River Road and North Murray Road. Refer to the project Drawings for a site location map.
- C. Prospective bidders are encouraged to visit the sites and attend the pre-bid meeting held at the sites to become familiar with existing conditions.

1.4 BACKGROUND INFORMATION

- A. Soil investigations have been performed in support of these projects to identify the nature and extent of metals-contaminated soil. The following reports, sampling and analysis results maps and surveys are available for review at www.ridolfi.com/spokaneriver:
 - 1. The Washington Recreational Sites Starr Road and Island Complex- Final Field Sampling Report, prepared, by U.S. Army Corps of Engineers, January 7, 2005.
 - 2. Spokane River Shoreline Site at Murray Road- Sampling and Testing Report, prepared by Ecology, December 2006.
 - 3. Three sampling analysis results maps:
 - a. Island Complex Back Channel: Approximate sampling locations and XRF results, prepared by Ecology, August 24, 2006.
 - b. Total Metals Sampling Results (Map) for Island Complex and Starr Road Sites, prepared by the U.S. Army Corps of Engineers (USACE), August 2003.
 - c. Arsenic and Lead Results (Map) for Island Complex and Starr Road Sites, prepared by the USACE, August 2003.
 - 4. Topographic surveys representing existing conditions at both sites.

1.5 UTILITY LOCATION

- A. Contractor is responsible for locating all buried utilities prior to commencing subsurface work. Contractor shall contact utility locating service at 800-424-5555 at least 48 hours prior to excavating.

1.6 PERMIT REQUIREMENTS

- A. The remedial actions at the Island Complex site and the Murray Road site are state-lead cleanup actions. The Washington State Department of Ecology will obtain permits or ensure that substantive permit requirements are met in lieu of a permit. The following permits or substantive permit requirements will apply:

Local

- Shoreline Management Act shoreline permitting substantive requirements - Spokane County
- Spokane County Parks access agreement

State

- Washington State Department of Fish and Wildlife State Hydraulic Permit substantive requirements
- Washington State Department of Natural Resources Right of Entry

Federal

- U.S. Army Corps of Engineers Nationwide Permit 38

- B. Copies of these permits and approvals are available for review at the following location:

Washington State Department of Ecology, Eastern Regional Office
N. 4601 Monroe
Spokane, WA 99205-1295

- C. All Work is to be performed in compliance with permit requirements and conditions.

1.7 CONTRACTOR USE OF SITE AND PREMISES

- A. Limit activities to the designated work areas as indicated on the Plans.
- B. Restore any damage to areas located outside of the limits of Work, including all access areas, to the satisfaction of Ecology's Representative.

1.8 WORK BY ECOLOGY

- A. Ecology will provide oversight to verify the Construction Contractor's Quality Control. These measures are for the sole benefit of the Ecology and do not relieve the contractor of responsibility for providing adequate quality control measures.

The presence or absence of Ecology's Quality Assurance staff does not relieve the contractor from any contact requirement.

- B. Ecology may, at its discretion, work with individuals, other Contractors, or groups to perform other Work on site. Ecology's Representative will coordinate all such work with the Contractor, a minimum of 48 hours before these efforts.
- C. Coordinate all Work in this Contract with work by Ecology.

1.9 CONSTRUCTION SEQUENCING

- A. The Contractor is required to submit a construction sequence schedule under Section 01300 - Submittals. The schedule must include a pre-construction meeting with Ecology and its representatives. Schedule must be based on recommended sequencing as described within this Specification set and Plan drawings.

1.10 CONSTRUCTION TIME LIMITS

- A. Work is to begin within five (5) working days after the notice to proceed, and be complete within 45 calendar days, beginning the date given in the notice to proceed by Ecology's Representative. The 45-day work window may be further limited depending on weather and resulting river flow rate. Based on past experience and discussions with the river management authority (Avista Corporation), Ecology expects the back channel to be accessible (dry) from early August through mid-September. Time limit applies to pre-construction submittal and review requirements, construction, and irrigation system installation.

2 PART 2 PRODUCTS

Not Used.

3 PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 01300: SUBMITTALS

1 PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Submittal procedures.
- B. Construction progress schedules.
- C. Proposed products list.
- D. Product data.
- E. Shop drawings.
- F. Samples.
- G. Design data.
- H. Test reports.
- I. Certificates.
- J. Manufacturer's field reports.
- K. Samples of manufactured materials.
- L. Samples for testing.

1.2 RELATED SECTIONS

- A. Section 01400 - Construction Quality Control/Quality Assurance.
- B. Section 01700 - Contract Closeout.

1.3 REFERENCES

Not Used.

1.4 SUBMITTAL PROCEDURES

- A. Transmit each submittal with Ecology-accepted transmittal form.
- B. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.

- C. Identify Project, Contractor, Subcontractor or supplier; pertinent plan and detail number; and specification section number, as appropriate.
- D. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
- E. Schedule submittals to expedite the Project and deliver to Ecology's Representative. Coordinate submission of related items.
- F. For each submittal, allow 10 days for review excluding delivery time to and from the Contractor.
- G. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- H. Provide space for Ecology's Representative review stamps.
- I. When revised for resubmission, identify all changes made since previous submission.
- J. Maintain a submittal log noting submittal number, dates action taken, and personnel involved.
- K. Schedule A (attached) provides a Summary Submittal List for this project.

1.5 CONSTRUCTION PROGRESS SCHEDULES

- A. Submit initial schedule in duplicate within 14 calendar days after issuance of Notice of Award.
- B. Revise and resubmit as required.
- C. Submit revised schedules weekly as well as with each Application for Payment, identifying changes since previous version. Indicate estimated percentage of completion for each item of Work at each submission as well as work expected to be completed during upcoming week.
- D. Show complete sequence of construction by activity, identifying Work of separate stages and other logically grouped activities.
- E. Indicate submittal dates required for shop drawings, product data, samples, and product delivery dates, including those furnished by Ecology.

1.6 PROPOSED PRODUCTS LIST

- A. Within 14 days after date of Notice of Award, submit list of major Products proposed for use, with name of manufacturer, trade name, and model number of each Product.
- B. For Products specified only by reference standards, give manufacturer, trade name, model or catalog designation, and reference standards.

1.7 PRODUCT DATA

- A. Product Data:
 - 1. Submit to Ecology's Representative for review for the limited purpose of checking for conformance with specifications and contract documents.
- B. Product Data For Project Close-out:
 - 1. Submitted to Ecology's Representative during and within 14 days after final inspection.
- C. Submit the number of copies that the Contractor requires, plus two copies that will be retained by Ecology's Representative.
- D. Mark each copy to identify applicable Products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- E. After review, distribute in accordance with the Submittal Procedures article above and provide copies for record documents described in Section 01700 - Contract Closeout.

1.8 SHOP DRAWINGS

- A. Shop Drawings:
 - 1. Submitted to Ecology's Representative for review for the limited purpose of checking for conformance with the contract documents.
 - 2. After review, produce copies and distribute in accordance with SUBMITTAL PROCEDURES article above and for record documents purposes described in Section 01700 - Contract Closeout.
- B. Submit the number of opaque reproductions that Contractor requires, plus two copies that will be retained by Ecology's Representative.

1.9 SAMPLES

- A. Samples: