ADDENDUM NO. 1

TO THE

CONTRACT DOCUMENTS

FOR

VADER-ENCHANTED VALLEY RESERVOIR

FOR

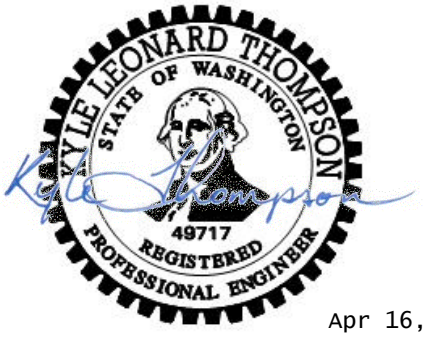
LEWIS COUNTY PUBLIC WORKS

VADER, WASHINGTON

THIS ADDENDUM IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS TO THE SAME EXTENT AS THOUGH IT WERE ORIGINALLY INCLUDED THEREIN.

BIDDERS MUST ACKNOWLEDGE RECEIPT OF ALL ADDENDA ON THE BID PROPOSAL FORM. BID PROPOSALS THAT FAIL TO ACKNOWLEDGE ALL ADDENDA MAY BE CONSIDERED IRREGULAR AND MAY BE REJECTED.

ISSUED THIS 16TH DAY OF APRIL 2018.



Apr 16, 2018 | 11:14 AM PDT

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ITEM NO. 1 – SPECIFICATION SECTION 09 97 14, STEEL WATER STORAGE TANK PAINTING

On page 09 97 14-2, in paragraph 1.1 E, REPLACE item number four (4) with the following:

"4. Surface preparation of the existing reservoir interior and exterior steel surfaces where work is being done."

ITEM NO. 2 – SPECIFICATION SECTION 09 97 14, STEEL WATER STORAGE TANK PAINTING

On page 09 97 14-2, in the fifth sentence of paragraph 1.1 E, REPLACE item number five (5) with the following:

"5. Spot coating repairs to the interior and exterior steel surfaces of the existing reservoir."

ITEM NO. 3 – SPECIFICATION SECTION 09 97 14, STEEL WATER STORAGE TANK PAINTING

On page 09 97 14-16, DELETE paragraph 2.4 in its entirety and replace it with the following:

2.4 EXTERIOR PAINT SYSTEMS

A. General:

1. Conform to the regulations and applicable requirements of local, State and Federal air pollution regulatory agencies.

B. AWWA OCS-6 Exterior paint systems shall consist of an organic zinc /epoxy/urethane system.

C. Coatings and sequence of their application shall be as described below:

1. Prime Coat:

a. Material: Zinc-rich urethane.

1) Tnemec Series 94-H_2O, Hydro Zinc, Zinc-rich urethane primer.
2) Approved equal.

b. Dry Film Thickness: 2.5 to 3.5 mils.

c. Color: Same as shop coat

2. Intermediate Coat:

a. Material: Epoxy.

1) Tnemec Series 27 F.C. Typoxy.
2) Approved equal.

b. Dry Film Thickness: 3.0 to 5.0 mils.

c. Color: One shade lighter than the top coat.

3. Finish coat

    a. Material: Acrylic polyurethane enamel.

        1) Tnemec Series 73, Endura-Shield.
        2) Approved equal.

    b. Dry Film Thickness: 3.0 to 5.0 mils.

    c. Color: As selected by the OWNER. Confirm color with OWNER prior to ordering.

4. Finished coating system on exterior surface and appurtenances shall be between 8.5 and 13.5 mils dry film thickness.

D. Compatible accelerators may be used as recommended by manufacturer and as approved by ENGINEER. All such accelerators must be produced by the same manufacturers as the paint products.

E. Non-Skid Surface

1. Material: Natural, clean sand, free of soil and other deleterious material, having hard, durable grains with 100% passing the No. 4 sieve.

ITEM NO. 4 – SPECIFICATION SECTION 09 97 14, STEEL WATER STORAGE TANK PAINTING

On page 09 97 14-24, DELETE paragraph 3.4 B in its entirety and replace it with the following:

B. Surface Preparation, Interior Surfaces

1. For new reservoir construction:

    a. Prepare all interior surfaces of the reservoir and associated interior structures according to SSPC-SP 5, White Metal Blast Cleaning.

    b. Anchor profile shall be measured as described elsewhere in this Section.

    c. Following blast cleaning and prior to painting, the following additional operations shall be performed:

        1) Material Removal: Remove spent abrasives and existing coating waste material from all blasted surfaces. This shall be accomplished by blowing off all blasted surfaces with clean, dry air and vacuum cleaning or blooming/sweeping of all waste material.

        2) Remove or cause to be removed all traces of rust bloom or deposits of oil, grease, or other contaminants which become visible prior to application of the prime coat.

    d. Humidity and Temperature Control

        1) General: Humidity and temperature control, when specified and required elsewhere in this Section for interior spaces, shall be provided using appropriate specialized equipment.

2) Dehumidification: Dehumidification equipment shall be used to control the environment in the space on a continuous basis 24 hours a day during blast cleaning, coating and coating curing unless otherwise approved by ENGINEER.

3) Heating Equipment: Auxiliary heaters or chillers may be necessary to maintain the surface temperature at a level acceptable to the coating manufacturer's application parameters.

a) Heaters and coolers shall be installed in the process air supply duct between the dehumidifier and the space as close to the space as possible.

b) The space to be controlled shall be sealed off as well as possible allowing air to escape at the bottom of the space away from the point where the dehumidified air is being introduced.

c) Maintain a slight positive pressure in the space unless the dust from the blasting operation is hazardous.

d) Do not recirculate the air from the space or from filtration equipment back through the dehumidifier when coating or solvent vapors are present.

2. For existing reservoir construction:

a. All interior surfaces of the reservoir and associated structures receiving work shall be prepared with a 50% bleach solution to kill mildew or other biological growth prior to waterjet cleaning.

b. Waterjet Cleaning:

1) After applying bleach solution, interior surfaces of the reservoir and associated structures shall be waterjet cleaned with a 5% TSP solution.

2) Waterjet cleaning equipment shall comply with requirements specified elsewhere in this Section.

3) Prepare all interior metal surfaces according to SP WJ-4, Waterjet Cleaning of Metals, Light Cleaning. Remove all but the most tightly adherent paint per SSPC surface preparation specification. Acceptable surface preparation by waterjet cleaning shall be determined by hand-tool cleaning of adhered topcoat paint. Topcoat paint which cannot be removed by hand-tool cleaning shall be considered acceptable to receive the new paint systems specified herein.

c. Following waterjet cleaning and prior to spot surface preparation and painting, the following additional operations shall be performed, as required:

1) Pitting Inspection and Repairs:

a) The ENGINEER and CONTRACTOR will perform an inspection of the blasted substrate metal for identification of areas with significant pitting of the substrate metal and any surface deficiencies.

b) Pitting of the substrate metal to a depth greater than 1/8-inch shall be ground out with a suitable grinding tool and filled with weld filler materials so that the deposited weld filler material forms a convex surface over the base metal. This convex surface shall then be ground flush to the base metal prior to any additional surface preparation and subsequent application to application of the prime coat. Surface deficiencies identified shall be repaired to the satisfaction of the ENGINEER.

c) Surface deficiencies identified shall be repaired to the satisfaction of the ENGINEER.

d. Following waterjet cleaning and prior to painting, the following surface preparation of all locations of compromised coating shall be performed:

1) Spot Surface Preparation: All locations where the existing coating system has failed and there is visible rust or other surface contamination, power-tool cleaning to bare metal (SSPC SP-11) shall be performed.

2) Care shall be taken to feather the surface preparation into the existing coating to remain in order to create a surface that will easily accept the new coating system primer.

3) Follow all manufacturer requirements regarding minimum surface profile of the steel to receive the new spot primer.

ITEM NO. 5 – SPECIFICATION SECTION 09 97 14, STEEL WATER STORAGE TANK PAINTING

On page 09 97 14-26, **DELETE** paragraph 3.4 C in its entirety and replace it with the following:

C. Surface Preparation, Exterior Surfaces

1. For new reservoir construction:

a. Prepare all exterior surfaces of the reservoir and associated exterior structures according to **SSPC-SP 10, Near-White Metal Blast**.

2. For existing reservoir construction:

a. Exterior surfaces of the reservoir and associated exterior structures shall be prepared with a 50% bleach solution to kill mildew or other biological growth prior to waterjet cleaning.

b. Waterjet Cleaning:

1) After applying bleach solution, exterior surfaces of the reservoir and associated exterior structures shall be waterjet cleaned with a 5% TSP solution.

2) Waterjet cleaning equipment shall comply with requirements specified elsewhere in this Section.

3) Prepare exterior metal surfaces according to SP WJ-4, Waterjet Cleaning of Metals, Light Cleaning. Remove all but the most tightly adherent paint per SSPC surface preparation specification. Acceptable surface preparation by waterjet cleaning shall be determined by hand-tool cleaning of adhered topcoat paint. Topcoat paint which cannot be removed by hand-tool cleaning shall be considered acceptable to receive the new paint systems specified herein.

c. Following waterjet cleaning and prior to spot surface preparation and painting, the following additional operations shall be performed, as required:

1) Pitting Inspection and Repairs:

a) The ENGINEER and CONTRACTOR will perform an inspection of the blasted substrate metal for identification of areas with significant pitting of the substrate metal and any surface deficiencies.

b) Pitting of the substrate metal to a depth greater than 1/8-inch shall be ground out with a suitable grinding tool and filled with weld filler materials so that the deposited weld filler material forms a convex surface over the base metal. This convex surface shall then be ground flush to the base metal prior to any additional surface preparation and subsequent application to application of the prime coat. Surface deficiencies identified shall be repaired to the satisfaction of the ENGINEER.

d. Following waterjet cleaning and prior to painting, the following surface preparation of all locations of compromised coating shall be performed:

1) Spot Surface Preparation: locations where the existing coating system has failed and there is visible rust or other surface contamination, power-tool cleaning to bare metal (SSPC SP-11) shall be performed.

2) Care shall be taken to feather the surface preparation into the existing coating to remain in order to create a surface that will easily accept the new coating system primer.

3) Follow all manufacturer requirements regarding minimum surface profile of the steel to receive the new spot primer.

ITEM NO. 6 – SPECIFICATION SECTION 33 01 13.13, REHABILITATION OF ABOVEGROUND WATER UTILITY STORAGE TANKS

On page 33 01 13.13-4, DELETE paragraph 3.3 A.1 in its entirety and replace it with the following:

1. All welds shall be "seal" welds in accordance with the Drawings. All circumferential and longitudinal steel plate shell welds shall be full penetration butt welds except as described as follows. Any overlap of plates shall be seal welded to prevent moisture pockets. All exposed sharp edges, burrs and corners shall be ground smooth. All weld splatter shall be removed by grinding. Any and all welds not uniform and continuous shall be ground smooth.

ITEM NO. 7 – SPECIFICATION SECTION 33 16 13.13, STEEL ABOVEGROUND WATER UTILITY STORAGE TANKS

On page 33 16 13.13-5, in the fourth sentence of paragraph 2.2 E, REPLACE the number "15,800 gpm" with "9,000 gpm".

ITEM NO. 8 – DRAWINGS SHEET M-3, RESERVOIR APPURTENANCES – 3

REPLACE sheet M-3 of the Drawings with the attached sheet.

END OF ADDENDUM NO. 1