

**GREENBRIER PUBLIC SERVICE DISTRICT NO. 2
GREENBRIER COUNTY, WEST VIRGINIA**

CONTRACT NO. 4 – WATER STORAGE TANK REHABILITATION PROJECT

JANUARY 16, 2019

ADDENDUM NO. 1

To whom it may concern:

A. BOILER PLATE

1. Bid Opening will be on January 23, 2019 at 2:00 p.m. at the Thrasher Group, 300 Association Drive, Charleston, WV 25311.
2. The Bid Form has been revised to modify Bid Items. The revised Bid Form is included with this Addendum #1. **YOU MUST USE THE ENCLOSED BID FORM INCLUDED WITH THIS ADDENDUM #1 WHEN PREPARING YOUR BID PACKAGE.**

B. SPECIFICATIONS

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1. **DELETE** Section 011000 – Summary in its entirety and **REPLACE** with the enclosed Section 011000 - Summary
2. **DELETE** Section 012000 – Price and Payment Procedures in its entirety and **REPLACE** with the attached Section 012000 – Price and Payment Procedures.
3. **DELETE** Section 099050 – Repainting of Steel Water Storage Facility in its entirety and **REPLACE** with the enclosed Section 099050 - Repainting of Steel Water Storage Facility.

C. DRAWINGS

1. NOT APPLICABLE

D. QUESTIONS AND CLARIFICATIONS

The following are clarifications and responses to questions posed by Contractors and suppliers regarding the above referenced project.

1. Question:

Where are the tanks being painted located?

Answer:

The 100,000 Gallon Water Storage Tank is located off County Route 2, near the town of Crichton. Its GPS Coordinates are: 38°3'31.75"N / 80°43'2.48"W. The 150,000 Gallon Water Storage Tank is located off State Route 20 near the town of Orient Hill. Its GPS Coordinates are 38°1'50.56"N / 80°43'23.30"W. Enclosed with this addendum are location maps of each tank.

2. Question:

What style are the tanks?

Answer:

Both the 100,000 and 150,000 gallon water storage tanks are ground welded steel tanks.

3. Question:

What are dimensions of each tank?

Answer:

The 150,000 gallon storage tank dimensions:

- Diameter: 25.2 ft.
- Height: 40 ft.

The 100,000 gallon storage tank dimensions:

- Diameter: 23.1 ft.
- Height: 32 ft.

4. Question:

Is there a mandatory pre-bid meeting?

Answer:

No.

5. Question:

What is the project start and completion dates for these tanks?

Answer:

The anticipated start date is April 1, 2019 and the estimated completion date is September 29, 2019.

6. Question:

Where can we purchase specifications for this project?

Answer:

Complete sets of bidding documents may be obtained from the office of The Thrasher Group, Inc. located at 300 Association Drive, Charleston, WV 25311.

7. Question:

Are there any repairs required on the tanks?

Answer:

Pitting repair may be required prior to the application of coating each respective tank. A pitting allowance has been added to the bid schedule.

8. Question:

Are there any photographs or inspection reports for the tanks?

Answer:

No.

9. Question:

Are there antennas on the tank? If so, who is responsible for removing them?

Answer:

No.

10. Question:

Does either tank contain lead-based coating and if so, how much?

Answer:

The contractor shall take paint samples and submit them to a certified laboratory for testing. The contractor shall base their bid on the tanks containing lead-based paint. If the testing results do not contain lead, the lead paint abatement will not be required and will be removed from the contract by change order.

11. Question:

Is containment required?

Answer:

Yes.

12. Question:

What is the preliminary estimated bid price?

Answer: \$105,000.00

13. Question:

Who will be performing inspection? Any 3rd party inspectors?

Answer:

The Contractor shall have the tank coatings inspected by a 3rd party. The cost of the inspection shall be included as part of **Bid Items 6 and 9**.

14. Question:

Please include a planholders list in the Addendum.

Answer:

The planholders list is enclosed with Addendum No. 1.


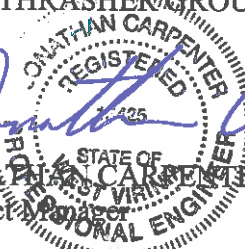
E. GENERAL

1. Bidders are hereby notified to acknowledge receipt of addenda in space provided on the Bid Form.
2. Enclosed with Addendum#1, is a copy of the planholders list for this project.

If you have any questions or need any other information, please do not hesitate to contact me.

Sincerely,

THE THRASHER GROUP, INC.


JONATHAN CARPENTER, PE
Project Manager
1/16/2019


Enclosures

**GREENBRIER PUBLIC SERVICE DISTRICT NO. 2
GREENBRIER COUNTY, WEST VIRGINIA
PROPOSED
CONTRACT #4 - WATER STORAGE TANK REHABILITATION PROJECT
THRASHER PROJECT #101-010-1220**

BID FORM

ARTICLE 1 – BID RECIPIENT

- 1.01 This Bid is submitted to:
Greenbrier Public Service District No. 2
405 Tom Raines Drive
Rainelle, WV 25962
- 1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

- 2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

- 3.01 In submitting this Bid, Bidder represents that:
- A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

Addendum No.

Addendum Date

_____	_____
_____	_____
_____	_____

- B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface

structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

- E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and "coercive practice" means harming or threatening to harm, directly or

indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

GENERAL

The Bidder shall take notice of and shall be responsible for any local or state taxes levied and applicable, and the cost for the same shall be included as part of the submitted Bid.

The total Bid cost stated includes a complete operating installation including furnishing and installation of any and all changes or additions in plans, piping, mechanical work, additional electrical work, accessories, controls, etc. necessary to accommodate alternative equipment systems or materials used in construction.

BID PROPOSAL

The Bidder agrees to perform all required Work described in the detailed Specifications and as shown on the Plans for the complete construction and placing in satisfactory operation the Waste Water System Improvements Project. The Project "Sequence of Construction" has been detailed in the Drawings and Specification Division 1, Project Summary, Section 1010, Part-2 Execution. The Bidder agrees to perform all the Work proposed for the total of the following Bid prices.

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

A.

PROPOSED

**CONTRACT #4 - WATER STORAGE TANK REHABILITATION PROJECT
FOR THE**

**GREENBRIER PUBLIC SERVICE DISTRICT NO. 2
GREENBRIER COUNTY, WEST VIRGINIA**

BID SCHEDULE

NOTE: Bid Unit PRICE amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern. Bids shall include sales tax and all other applicable taxes and fees.

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
1	LS	Mobilization/Demobilization		
			Dollars	
			Cents	
2	LS	Videotaping of Project Area		
			Dollars	
			Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
3a	LS	Interior Surface Preparation Including Sand Blasting *SSPC-SP10 (near white metal blast) of 150,000 Gallon Tank	_____ Dollars _____ Cents	_____
3b	LS	Interior Surface Preparation Including Sand Blasting *SSPC-SP10 (near white metal blast) of 100, 000 Gallon Tank	_____ Dollars _____ Cents	_____
4a	LS	Cathodic Protection Upgrades of 150,000 Gallon Tank	_____ Dollars _____ Cents	_____
4b	LS	Cathodic Protection Upgrades of 100,000 Gallon Tank	_____ Dollars _____ Cents	_____
5a	LS	Interior Priming and Painting of 150,000 Gallon Tank	_____ Dollars _____ Cents	_____
5b	LS	Interior Priming and Painting of 110,000 Gallon Tank	_____ Dollars _____ Cents	_____
6a	LS	Clean and Disinfect Interior of 150,000 Gallon Tank	_____ Dollars _____ Cents	_____

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
6b	LS	Clean and Disinfect Interior of 100,000 Gallon Tank	Dollars Cents	
7a	LS	Exterior surface preparation including Sand blasting SSPC-SP6 (commercial blast cleaning) of 150,000 Gallon Tank	Dollars Cents	
7b	LS	Exterior surface preparation including Sand blasting SSPC-SP6 (commercial blast cleaning) of 100,000 Gallon Tank	Dollars Cents	
8a	LS	Exterior Priming and Painting of 150,000 Gallon Tank	Dollars Cents	
8b	LS	Exterior Priming and Painting of 100,000 Gallon Tank	Dollars Cents	
9a	LS	Lead Paint Abatement of 150,000 Gallon Tank	Dollars Cents	
9b	LS	Lead Paint Abatement of 150,000 Gallon Tank	Dollars Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
10a	25 EA	Pit Repairs for 150,000 Gallon Tank		
			Dollars _____	
			Cents _____	
10b	25 EA	Pit Repairs for 100,000 Gallon Tank		
			Dollars _____	
			Cents _____	

TOTAL BID: _____

(Amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

NOTE: THE CONTRACTOR'S UNIT PRICES SHALL INCLUDE PURCHASE AND INSTALLATION, COMPLETE IN PLACE, PER BID ITEM IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS.

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

METHOD OF AWARD

If at the time this contract is to be awarded, the lowest total bid submitted by a qualified, responsible Bidder does not exceed the amount of funds then estimated by the Owner, as available to finance the contract, the construction contract will be awarded. If such bids exceed such amount, the Owner may reject all bids.

The owner may award the contract on the Total Bid submitted by a qualified responsible Bidder within the funds available for financing.

- A. Unit prices have been computed in accordance with paragraph 13.03.A of the General Conditions.
- B. Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
 - A. Bid Opening Requirements

ARTICLE 8 – DEFINED TERMS

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

By:

[Signature]

[Printed name]

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

[Signature]

[Printed name]

Title:

Submittal Date:

Address for giving notices:

Telephone Number:

Fax Number:

Contact Name and e-mail address:

Bidder's License No.:

(where applicable)

NOTE TO USER: Use in those states or other jurisdictions where applicable or required.

Greenbrier Public Service District No. 2
Contract #4 –Greenbrier Water Storage Tank Rehabilitation

101-010-1220
December 2018

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Work under separate contracts.
4. Access to site.
5. Work restrictions.
6. Specification and drawing conventions.
7. Miscellaneous provisions.

B. Related Requirements:

1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.2 PROJECT INFORMATION

A. Project Identification: Greenbrier Water Storage Tank Rehabilitation

1. Project Location: Greenbrier County, West Virginia.

B. Owner: Greenbrier Public Service District No. 2.

C. Engineer: The Thrasher Group, Inc.

1.3 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and consists of the following:

1. The work consists of rehabilitating the existing 150,000 gallon and 100,000 gallon water storage tanks. This work includes lead paint abatement, coating of the interior and exterior of the water storage tanks, and miscellaneous repairs to the water storage tanks per Specification 099050.

B. Type of Contract

1. Project shall be constructed under a single prime contract.

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1.4 ACCESS TO SITE

- A. General: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.
- B. General: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.
- C. Use of Site: Limit use of Project site to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - 1. Driveways, Walkways and Entrances: Keep driveways and entrances serving premises clear and available to Owner and the public, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
 - a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

1.5 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
 - 1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work to normal business working hours of 7:00 a.m. to 5:00 p.m., Monday through Friday, unless otherwise indicated.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
 - 1. Notify Engineer not less than two days in advance of proposed utility interruptions.
 - 2. Obtain Engineers written permission before proceeding with utility interruptions.
- D. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner occupancy with Owner.
 - 1. Notify Engineer not less than two days in advance of proposed disruptive operations.
 - 2. Obtain Engineers written permission before proceeding with disruptive operations.

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E. Existing Conditions

1. The Contractor shall be responsible to properly maintaining the Project site free from debris, i.e. paint chips.
2. The Contractor shall be responsible for protecting the surrounding homes and property from all paint and/or material used throughout construction. Any damage to the surrounding houses and property shall be the Contractors responsibility to fix.

1.6 SPECIFICATION AND DRAWING CONVENTIONS

A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.

B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:

1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
2. Abbreviations: Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard and scheduled on Drawings.
3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

1.7 MISCELLANEOUS PROVISIONS

A. Environmental Protections

1. The Contractor and Subcontractors, in the performance of this Contract, shall comply with all applicable Federal, State and local laws and regulations concerning environmental pollution control and abatement as well as the specific requirements stated elsewhere in the Contract Documents.
2. The Contractor shall take all precautions necessary to avoid pollution of water in adjacent watercourses or water storage areas including wells.

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3. All earthworks, equipment movement, control of water in excavations and other operations which may create silting shall be conducted in a manner to keep water pollution to an absolute minimum.
4. Water used during the Contract Work which has become polluted with oil, harmful or objectionable chemicals, or other pollutants shall be disposed of in a manner that will not affect nearby waters and land. The Contractor shall not, under any circumstances, discharge pollutants into any watercourse.

B. Noise and Air Pollution

1. The Contractor shall take all precautions necessary to avoid noise and air pollution during the course of the Contract.

C. Cost of Utilities

1. The Contractor shall be responsible for the cost of all temporary utilities such as water, power, gas, etc., required to maintain heat and provide light in the proposed structures, conduct initial operation and preliminary tests as required to put the equipment in operating order, etc. At that time, all utility meters will be read and the Owner will assume the cost of utilities thereafter. The lighting system in construction areas shall be furnished by the Contractor.

1.8 CONSTRUCTION SEQUENCE OF EVENTS

- A. Water service to the customers must not be interrupted. The Contractor shall leave one water storage tank in service while the other water storage tank is being stripped and painted. Work on each tank shall be as follows:

1. Mobilization.
2. Site Preparation.
3. Videotaping of project area.
4. Drain the existing water storage tank.
5. Interior Surface Preparation including Sandblasting.
6. Perform interior water storage tank repairs.
7. Prime and paint interior.
8. Perform water storage tank disinfection in accordance with Section 331313.00.
9. Perform exterior water storage tank repairs.
10. Prime and paint exterior.
11. Fill water storage tank.
12. Seed and mulch the site.
13. Repeat steps 1-12 for second water storage tank.
14. Clean-up.
15. Substantial Completion Walkthrough.
16. Complete Punch List Items.
17. Final Completion and Demobilization.

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18. Complete all project closeout items.

PRODUCTS (Not Used)

EXECUTION (Not Used)

END OF SECTION 011000

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SECTION 012000 - PRICE AND PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Schedule of Values.
- B. Application for Payment.
- C. Change procedures.
- D. Defect assessment.
- E. Measurement and Payment.
- F. Unit prices.
- G. Alternates.

1.2 SCHEDULE OF VALUES

- A. Submit printed schedule on Progress Estimate schedule on EJCDC C-620 or Contractor's standard form or electronic media printout will be considered for this use.
- B. Submit Schedule of Values in duplicate within twenty (20) days after date established in Notice to Proceed.
- C. Format: Use Table of Contents of this Project Manual. Identify each line item with number and title of major Specification Section. Also identify Site mobilization, bonds and insurance, and demobilization.
- D. Include within each line item, direct proportional amount of Contractor's overhead and profit.
- E. Revise schedule to list approved Change Orders with each Application for Payment.

1.3 APPLICATION FOR PAYMENT

- A. Submit three (3) copies of each Application for Payment on EJCDC C-620 - Contractor's Application for Payment.
- B. Content and Format: Use Schedule of Values for listing items in Application for Payment.
- C. Submit updated construction schedule with each Application for Payment.

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- D. **Payment Period:** Submit at intervals stipulated in the Agreement.
- E. Submit submittals with transmittal letter as specified in Section 013300 - Submittal Procedures.
- F. **Substantiating Data:** When Engineer requires substantiating information, submit data justifying dollar amounts in question. Include the following with Application for Payment:
 - 1. Current construction photographs.
 - 2. Partial release of liens from major Subcontractors and vendors.
 - 3. Record Documents as specified in Section 017000 - Execution and Closeout Requirements, for review by Owner, which will be returned to Contractor.
 - 4. Affidavits attesting to off-Site stored products.
 - 5. Construction Progress Schedule, revised and current as specified in Section 013300 - Submittal Procedures.

1.4 CHANGE PROCEDURES

- A. **Submittals:** Submit name of individual who is authorized to receive change documents and is responsible for informing others in Contractor's employ or Subcontractors of changes to the Work.
- B. Carefully study and compare Contract Documents before proceeding with fabrication and installation of Work. Promptly advise Engineer of any error, inconsistency, omission, or apparent discrepancy.
- C. **Requests for Interpretation (RFI) and Clarifications:** Allot time in construction scheduling for liaison with Engineer; establish procedures for handling queries and clarifications.
 - 1. Use Request for Information Form for requesting interpretations (provided by Engineer upon request).
 - 2. Engineer may respond with a direct answer on the Request for Information form, separate Engineer Response, EJCDC C-942 - Field Order, or EJCDC C-940 - Work Change Directive Form.
- D. Engineer will advise of minor changes in the Work not involving adjustment to Contract Sum/Price or Contract Time by issuing supplemental instructions on EJCDC C-942.
- E. Engineer may issue Notice of Change including a detailed description of proposed change with supplementary or revised Drawings and Specifications, a change in Contract Time for executing the change with stipulation of overtime work required and with the period of time during which the requested price will be considered valid. Contractor will prepare and submit estimate within 10 days.
- F. Contractor may propose changes by submitting a request for change to Engineer, describing proposed change and its full effect on the Work. Include a statement describing reason for the change and the effect on Contract Sum/Price and Contract Time with full documentation and a statement describing effect on the Work by separate or other Contractors.

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- G. Stipulated Sum/Price Change Order: Based on Proposal Request or Word Change Directive and Contractor's maximum price quotation or Contractor's request for Change Order as approved by Engineer.
- H. Unit Price Change Order: For Contract unit prices and quantities, the Change Order will be executed on a fixed unit price basis. For unit costs or quantities of units of that which are not predetermined, execute Work under Work Change Directive. Changes in Contract Sum/Price or Contract Time will be computed as specified for Time and Material Change Order.
- I. Work Directive Change: Engineer may issue directive, on EJCDC C-940 - Work Change Directive, instructing Contractor to proceed with change in the Work, for subsequent inclusion in a Change Order. Document will describe changes in the Work and designate method of determining any change in Contract Sum/Price or Contract Time. Promptly execute change.
- J. Time and Material Change Order: Submit itemized account and supporting data after completion of change, within time limits indicated in Conditions of the Contract. Engineer will determine change allowable in Contract Sum/Price and Contract Time as provided in Contract Documents.
- K. Maintain detailed records of Work done on time and material basis. Provide full information required for evaluation of proposed changes and to substantiate costs for changes in the Work.
- L. Document each quotation for change in Project Cost or Time with sufficient data to allow evaluation of quotation.
- M. Change Order Forms: EJCDC C-941 - Change Order.
- N. Execution of Change Orders: Engineer will issue Change Orders for signatures of parties as provided in Conditions of the Contract.
- O. Correlation of Contractor Submittals:
 - 1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Sum/Price.
 - 2. Promptly revise Progress Schedules to reflect change in Contract Time, revise sub-schedules to adjust times for other items of Work affected by the change, and resubmit.
 - 3. Promptly enter changes in Record Documents.

1.5 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of Engineer or Owner, it is not practical to remove and replace the Work, Engineer or Owner will direct appropriate remedy or adjust payment.
- C. The defective Work may remain, but unit sum/price will be adjusted to new sum/price at discretion of Owner.

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- D. Defective Work will be partially repaired according to instructions of Engineer, and unit sum/price will be adjusted to new sum/price at discretion of Owner.
- E. Individual Specification Sections may modify these options or may identify specific formula or percentage sum/price reduction.
- F. Authority of Owner to assess defects and identify payment adjustments is final.
- G. Nonpayment for Rejected Products: Payment will not be made for rejected products for any of the following reasons:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from transporting vehicle.
 - 4. Products placed beyond lines and levels of the required Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling, and disposing of rejected products.

1.6 MEASUREMENT AND PAYMENT

A. General Requirements:

- 1. Contractor shall take measurements and compute quantities. Engineer will verify measurements and quantities.
- 2. Unit Quantities: Quantities and measurements indicated on Bid Form are for Contract purposes only. Actual quantities provided shall determine payment.
 - a. When actual Work requires more or fewer quantities than those quantities indicated, provide required quantities at contracted unit sum/prices.
 - b. When actual Work requires 25 percent or greater change in quantity than those quantities indicated, Owner or Contractor may claim a Contract Price adjustment.
- 3. Payment Includes: Full compensation for required labor, products, tools, equipment, plant and facilities, transportation, services and incidentals; erection, application, or installation of item of the Work; overhead and profit.
- 4. Final payment for Work governed by unit prices will be made on basis of actual measurements and quantities accepted by Engineer multiplied by unit sum/price for Work incorporated in or made necessary by the Work.

B. Measurement of Quantities:

- 1. Weigh Scales: Inspected, tested, and certified by applicable Virginia weights and measures department within past year.
- 2. Platform Scales: Of sufficient size and capacity to accommodate conveying vehicle.
- 3. Metering Devices: Inspected, tested, and certified by applicable Virginia department within past year.
- 4. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel, or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.

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5. Measurement by Volume: Measured by cubic dimension using mean length, width, and height or thickness.
6. Measurement by Area: Measured by square dimension using mean length and width or radius.
7. Linear Measurement: Measured by linear dimension, at item centerline or mean chord.
8. Stipulated Sum/Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as completed item or unit of the Work.

C. Unit Price Schedule:

1. Bid Item 1 - Mobilization/Demobilization

- a. This Bid item shall include all costs associated with mobilization. This Bid item shall also include payment of all bonding costs incurred by the Contractor. This Bid item shall include all materials and equipment required for unloading and reloading. This Bid item shall also include all costs associated with demobilization.
- b. The payment request for mobilization shall not exceed 3% of the total Bid Price for this Contract. The balance of the lump sum Bid item amount shall be considered demobilization and shall be paid at contract closeout.

2. Bid Item 2 – Video Taping of Project Area

- a. The cost of work shall be included in a lump sum bid item. Such payment shall constitute full compensation for labor, materials, equipment, and all other costs associated to provide complete documentation of the project area.
- b. Videotaping shall include the entire construction area affected, including any Contractor secured waste site, material storage, or staging areas. The measurement for this lump sum bid item shall be based on a complete video recording on a DVD of the entire project area.

3. Bid Item 3 - Interior Surface Preparation Including Sand Blasting *SSPC-SP10 (near white metal blast)

- a. Bid items are broken out according to the size of storage tank as follows: 4a – 150,000 Gallons, 4b – 100,000 Gallons
- b. This Bid Item shall include all costs associated with the surface preparation of the interior of the water storage tanks in accordance with Section 099050.
- c. Payment for this Bid Item shall be a lump sum.

4. Bid Item 4 – Cathodic Protection Upgrades

- a. Bid items are broken out according to the size of storage tank as follows: 5a – 150,000 Gallons, 5b – 100,000 Gallons
- b. This Bid Item shall include all costs associated with welding steel eyelets and brackets to the tank interiors for anode and reference cell tie off points, welding mounting bolts to the 75 mil tank exterior wall for mounting rectifier, welding

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1.5” heavy wall pipe couplings for the pressure entrance fittings into the tank wall (if needed).

Payment for this Bid Item shall be lump sum.

5. Bid Item 5 - Interior Priming and Painting
 - a. Bid items are broken out according to the size of storage tank as follows: 6a – 150,000 Gallons, 6b – 100,000 Gallons
 - b. This Bid Item shall include all costs associated with the interior priming and painting of the water storage tanks in accordance with Section 099050.
 - c. Payment for this Bid Item shall be a lump sum.

6. Bid Item 6 – Clean and Disinfect the Interior of Tanks.
 - a. Bid items are broken out according to the size of storage tank as follows: 7a – 150,000 Gallons, 7b – 100,000 Gallons
 - b. This Bid Item shall include all costs associated with the cleaning and disinfection of the water storage tanks in accordance with Section 331313.00.
 - c. Payment for this Bid Item shall be a lump sum.

7. Bid Item 7 - Exterior surface preparation including Sand blasting SSPC-SP6 (commercial blast cleaning)
 - a. Bid items are broken out according to the size of storage tank as follows: 3a – 150,000 Gallons, 3b – 100,000 Gallons
 - b. This Bid Item shall include all costs associated with the surface preparation of the exterior of the water storage tanks in accordance with Section 099050.
 - c. Payment for this Bid Item shall be a lump sum.

8. Bid Item 8 – Exterior Priming and Painting
 - a. Bid items are broken out according to the size of storage tank as follows: 3a – 150,000 Gallons, 3b – 100,000 Gallons
 - b. This Bid Item shall include all costs associated with the exterior priming and painting of the water storage tanks in accordance with Section 099050.
 - c. Payment for this Bid Item shall be a lump sum.

9. Bid Item 9 – Lead Paint Abatement
 - a. Bid items are broken out according to the size of storage tank as follows: 3a – 150,000 Gallons, 3b – 100,000 Gallons
 - b. This Bid Item shall include all costs associated with the lab testing, and the removal and disposal of all materials containing ingestible lead.
 - c. Payment for this Bid Item shall be a lump sum.

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10. Bid Item 10 – Pit Repair

- a. Bid items are broken out according to the size of storage tank as follows: 3a – 150,000 Gallons, 3b – 100,000 Gallons
- b. This Bid Item is to include all costs associated with rust pit repair by welding in accordance with Section 099050. The assumed number of pits to be repaired is 25.
- c. This allowance does not guarantee payment for the assumed number of pit repairs, only the number of repairs completed as required by Section 099050.

1.7 ALTERNATES - Not Used

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION - Not Used

END OF SECTION 012000

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SECTION 099050 - REPAINTING OF STEEL WATER STORAGE FACILITY

PART 1 – GENERAL

1.1 DESCRIPTION

A. Scope:

1. This section of the specifications contains the detailed criteria for the selection of materials, surface preparation, and the furnishing of all paint, labor, equipment and appliances for field painting of steel water storage facilities specified herein: ANSI/AWWA D102 “AWWA Standard for Painting Steel Water Storage Tanks.”

B. Definitions:

1. Specific coating terminology used in this section is in accordance with definitions contained in ASTM D16, ASTM D3960, and the following definitions:
 - a. Dry Film Thickness (DFT): the thickness of one (1) fully cured continuous application of coating.
 - b. Field Coat: the application or the completion of application of the coating system after installation of the surface at the site of the work.
 - c. Shop Coat: One (1) or more coats applied in a shop or plant prior to shipment to the site of erection or fabrication, where the field or finishing coat is applied.
 - d. Tie Coat: An intermediate coat used to bond different types of paint coats. Coatings used to improve the adhesion of a succeeding coat.
 - e. Photochemically Reactive Organic Material: Any organic material that will react with oxygen, excited oxygen, ozone or other free radicals generated by the action of sunlight on components in the atmosphere giving rise to secondary contaminants and reaction intermediates in the atmosphere which can have detrimental effects.
 - f. Volatile Organic Compound (VOC) Content: The portion of the coating that is a compound of carbon, is photochemically reactive, and evaporates during drying or curing, expressed in grams per liter or pounds per gallon.
 - g. Touch-Up Painting: The application of paint on areas of painted surfaces to repair marks, scratches, and areas where the coating has deteriorated to restore the coating film to an unbroken condition.

1.2 PRE-CONSTRUCTION MEETING

- A. A pre-construction meeting will **NOT** be held to discuss the technical aspects of the specified coatings and their application characteristics.

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1.3 CONTRACTOR PRE-QUALIFICATION

- A. All contractors bidding shall provide documentation of having repainted five (5) potable water tanks within 24 months of the bid date.
- B. Access to the site can be obtained by contacting the Owner.
- C. Contractor must be approved by Owner prior to awarding Contract.

1.4 QUALITY ASSURANCE

A. References:

- 1. This section contains references to the following documents. They are a part of this section as specified and modified. Where a referenced document contains references to other standards, those documents are included as references under this section as if referenced directly. In the event of conflict between the requirements of this section and those of the listed documents, the requirements of this section shall prevail.
- 2. Unless otherwise specified, references to documents shall mean the documents in effect at the time of Advertisement for Bids, Invitation to Bid, or on the effective date of the Agreement if there were no Bids. If referenced documents have been discontinued by the issuing organization, references to those documents shall mean the replacement documents issued or otherwise identified by that organization. Where document dates are given in the following listing, references to those documents shall mean the specific document version associated with that date, regardless of whether the document has been superseded by a version with a later date, discontinued or replaced.

Reference	Title
ASTM D16	Standard Terminology Relating to Paint, Varnish, Lacquer and Related Products
ASTM D2200 (SSPC-Vis1)	Pictorial Surface Preparation Standards for Painting Steel Surfaces
ASTM D3359A	Methods for Measuring Adhesion by Tape Test
ASTM D3960	Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings
ASTM D4417	Field Measurement of Surface Profile of Blast-Cleaned Steel
F 595 B	Federal Standard Colors
SSPC	SSPC Painting Manual – Systems and Specifications, Vol. 2

B. Standardization

- 1. Materials and supplies provided shall be the standard products of Manufacturers. Materials in each coating system shall be the products of a single Manufacturer.

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2. The standard products of Manufacturers other than those specified will be accepted when it is demonstrated to the Engineer that they are equal in composition, durability, usefulness and convenience for the purpose intended. Requests for substitutions will be considered, provided the following minimum conditions are met:
 - a. The proposed coating system shall use an equal or greater number of separate coats to achieve the required dry film thickness.
 - b. The proposed coating system shall use coatings of the same generic type as that specified.
 - c. Requests for substitution shall have directions for application and descriptive literature which includes generic type, percent solids by volume, volatile organic content (grams per liter), and information confirming that the substitution is equal to the specified coating system.
 - d. The Contractor shall provide a list of references where paint of the same generic type has been applied. The reference list shall give the project name, city, state, owner, phone number of owner, coating system reference and number, and year paint was applied.

1.5 DELIVERY AND STORAGE

- A. Materials shall be delivered to the job site in their original, unopened containers. Each container shall bear the following:
 1. Manufacturer's name
 2. Coating type
 3. Batch number
 4. Date of manufacture
 5. Storage life
 6. Special directions
- B. Materials shall be stored in enclosed structures and shall be protected from weather and excessive heat or cold. Flammable materials shall be stored in accordance with state and local codes.
- C. Materials exceeding storage life recommended by the Manufacturer shall be removed from the site.

1.6 RESPONSIBILITY

- A. The Contractor shall provide all materials, scaffolding, and other equipment and services required to prepare all surfaces and coat all surfaces as set forth in the Contract Documents. The Contractor shall be responsible for the final finish on all surfaces. The Contractor is responsible for cleaning up all debris prior to final payment.

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1.7 SUBMITTALS

- A. Before materials are delivered to the job site, the Contractor shall provide the following information in accordance with Section 013000 – Administrative Requirements.
1. For each primer and finish coating, the Contractor shall furnish a Safety Data Sheet (SDS).
 2. For each primer and finish coating, the Contractor shall provide the Manufacturer's application instructions, which shall include the following:
 - a. Surface preparation recommendations.
 - b. Primer type, where required.
 - c. Maximum dry and wet mil thickness per coat.
 - d. Minimum and maximum curing time between coats, including atmospheric conditions for each.
 - e. Curing time before submergence in liquid.
 - f. Thinner to be used with each paint.
 - g. Ventilation requirements.
 - h. Minimum atmospheric conditions during which the paint shall be applied.
 - i. Allowable application methods.
 - j. Maximum allowable moisture content.
 - k. Maximum storage life.
 3. List of materials proposed to be used under this section and Manufacturer's data for each material.
 4. Color charts.

PART 2 – PRODUCTS

2.1 MANUFACTURER(S)

- A. Tnemec Company, Inc.
- B. The Sherwin Williams Company
- C. Engineer's Approved Equal

2.2 MATERIALS SELECTION, COLORS, AND LABELING

- A. The Contractor shall furnish information to the Engineer by way of shop drawing submittal

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for the proposed materials to be used in execution of the work. The information shall include the following:

1. Complete product specification sheets
 2. Manufacturer's instructions
 3. Color selection guides
- B. If requested by the Engineer, the Contractor shall also secure a written statement from the painting manufacturer attesting to the compatibility of the proposed paint systems with the existing paint described hereinafter.
- C. The Engineer will prepare a color schedule based on the Owner's selections (except where colors are already specified herein) and return the same to the Contractor along with the reviewed shop drawings.
- D. All materials shall be delivered to the site in manufacturer's sealed containers. The manufacturer shall label each container. Labels shall give the following:
1. Manufacturer's name
 2. Brand
 3. Type of paint
 4. Color of paint
 5. Instructions for reducing
- E. Thinning shall be done only in accordance with direction of the manufacturer and exclusively with the types of reducer recommended. Mixing or job tinting may be done when approved by the Engineer.

2.3 EXISTING PAINT SYSTEMS

- A. The existing interior coatings on the storage tank are to be completely removed in accordance with Steel Structures Painting Council Specifications SSPC-SP10 "Near White Blast". The exterior finish will be cleaned by using SSPC-SP6 "Commercial Blast Cleaning".
- B. Protection of Grounds
1. Contractor shall provide scaffolding and containment during sand blasting, priming and painting for protection of people and property, including all landscaping, driveways, roads, walks, buildings, utilities, etc. Any damage to such items shall be corrected by the Contractor at the Contractor's expense to the Owner's satisfaction.
- C. Abatement of Lead Based Paint
1. If the exterior paint system and/or interior paint system is found to contain lead paint, the Contractor shall provide containment of all loose paint removed from the interior and exterior tank. The Contractor shall submit a lead paint abatement plan to the Engineer for approval prior to the start of any work performed on the tank.

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2. The Contractor shall comply with West Virginia State Code CFR16-35 cited as the West Virginia “Lead Abatement Act.”
3. The Contractor shall perform the following duties as part of the lead paint abatement plan:
 - a. Ensure that each of his or her employees or agents who will come in contact with lead or who will be responsible for a lead abatement project is licensed. Employees will be required to take a blood test prior to beginning work on this project. The blood test results shall be submitted to the Owner. Should the test results be greater than 40 micrograms/dl, the employee will not be permitted to work on this project.
 - b. Ensure that the project is supervised by a licensed lead abatement supervisor.
 - c. Maintain sampling records for each contained work area of a lead abatement project until it meets the minimum clearance standards established by the West Virginia Department of Environmental Protection.
 - d. Keep a record of the project and make the record available to the division and the divisions of commerce, labor, and environmental protection upon request. Records required by this subsection shall be kept for at least three years and shall include at a minimum:
 1. The name, address and license number of the individual who supervised the lead abatement project and each employee or agent who worked on the project.
 2. The location and design of the project, if applicable, and the amount of lead-containing material that was removed.
 3. The starting and completion date of the project and a summary of the procedures that were used to comply with all federal and state standards.
 4. The name and address of each disposal site where lead-contaminated waste was deposited and the disposal site receipts.

2.4 SCHEDULE OF NEW PRODUCTS

- A. Products specified are as manufactured by Sherwin Williams or Tnemec Company, Inc.
 1. Products for each specified function and system shall be of a single manufacturer.
 2. All materials in contact with potable water must have been tested and approved by the ANSI/NSF Standard 61.

2.5 EXTERIOR REPAINT SYSTEM

- A. The exterior surfaces shall be painted using the following system:

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B. The Contractor shall furnish to the Owner at least two (2) extra gallons to finish paint

	Tnemec	Sherwin Williams
Prime	Series 94-H20 Hydro Zinc Aromatic Zinc Rich Urethane @ 2.5 – 3.5 mils DFT.*	Corothane 1 Galvapak 1K Zinc Rich Primer @ 3.0 – 4.0 mils DFT.*
Intermediate Coat	Series 27 F.C. Typoxy Polyamide Epoxy @ 3.0-5.0 mils DFT*	Macropoxy 646 Fast Cure Epoxy @ 3.0 – 5.0 mils DFT.*
Finish	Series 73 Endura-Shield Aliphatic Acrylic Polyurethane @ 2.0-3.0 mils DFT.*	Acrolon 218 HS or Hi-Solids Polyurethane @ 2.0 – 3.0 mils DFT.*
Total DFT	7.5 – 11.5 mils	8.0 – 12.0 mils
*Notes:	Apply one (1) complete coat of each paint. Certain finish coat colors may require two (2) coats. Color shall be determined by Engineer/Owner.	Apply one (1) complete coat of each paint. Certain finish coat colors may require two (2) coats. Color shall be determined by Engineer/Owner.

specified above for exterior paint for touch-up repairs due to vandalism.

- C. All materials shall be applied in accordance with manufacturer’s directions and any thinning required shall be done in a manner and exclusively with the type of reduce recommended.
- D. Spray application may be used in conformance with applicable section of AWWA D102.
- E. All materials shall be applied under adequate illumination.

2.5 INTERIOR REPAINT SYSTEM

- A. The interior surfaces shall be painted using the following system:

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B. All coatings shall be a “system” and shall be thoroughly compatible each with the other. Not

	Tnemec	Sherwin Williams
Prime	Series 94-H20 Hydro Zinc Aromatic Zinc Rich Urethane @ 2.5 – 3.5 mils DFT.*	Macropoxy 5500 @ 3.0 – 5.0 mils DFT.
Weld Coat	Series N140-15BL @ 2.0 – 3.0 mils DFT. Color – White.*	Macropoxy 5500 @ 4.0 – 6.0 mils DFT. B58VX605 hardener with Opti-Check OAP pigment technology may be used for rapid holiday detection with safe blue light inspection lamps.
Intermediate Coat	Series N140-1255 Pota-Pox Plus Polyamidoamine Epoxy @ 4.0 – 6.0 mils DFT. Color – Beige.*	Macropoxy 5500 @ 4.0 – 6.0 mils DFT. B58VX605 hardener with Opti-Check OAP pigment technology may be used for rapid holiday detection with safe blue light inspection lamps.
Finish	Series N140-15BL Pota-Pox Plus Polyamidoamine Epoxy @ 6.0 – 8.0 mils DFT. Color – White.*	Macropoxy 5500 @ 5.0 – 6.0 mils DFT.
Total DFT	6.5 – 9.5 mils	8.0 – 12.0 mils
*Notes:	Apply one (1) complete coat of each paint. For the Weld Coat, apply by brush to all welds and sharp edges. Otherwise, apply by spray application.	Apply one (1) complete coat of each paint. For the Weld Coat, apply by brush to all welds and sharp edges. Otherwise, apply by spray application.

coatings or primers of different manufacturers shall be applied upon each other. The contractor shall submit the coatings schedule to the Owner.

- C. Paint shall not be applied when the temperature of the steel or paint is below 40 degrees F. Paint shall not be applied when the surface temperature is expected to drop 32 degrees F before the paint has dried. With chemically cured coatings, (catalyzed epoxies, etc.) particular care shall be exercised to follow manufacturer’s special temperature requirements (usually 50 degrees F or above).
- D. Paint shall not be applied in rain, snow fog, mist or when the steel temperature is below the dew point, resulting in condensation.
- E. Each coat of paint shall be in proper state of cure or dryness before the application of the succeeding coat. A minimum of 24 hours shall be allowed between coats.
- F. All weld seams shall receive one (1) brush coat of the specified primer after the sandblasting and cleaning has been completed. The brush prime coat is in addition to the specified prime coat.
- G. All coats shall be smooth, free of brush marks, streaks, laps or pile up of paints, and skipped or missed area.

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2.6 TOUCH-UP AND REPAIR

- A. At completion, all painted surfaces and coatings shall be inspected. All damaged spots, whether due to defective materials or workmanship or defects of surfaces covered shall be touched up and the finish restored. Additional coats of paint and coatings required to cover all spots or discoloration of every sort shall be applied at no additional costs to the Owner.
- B. The contractor shall furnish to the Owner at least one (1) extra gallon of finish paint specified above of exterior paint for touch-up repairs due to vandalism.

PART 3 – EXECUTION

3.1 MANUFACTURER(S)

- A. Surfaces shall be clean, dry, and adequately protected from dampness. Surfaces shall be free of any material, which will adversely affect adhesion or appearance of painting and coating.
- B. Cleanliness shall be checked by wiping the prepared steel surface with a white cloth dampened with manufacturer's thinner for the particular paint system. If the surface is not clean, the contractor shall take steps to clean the surface more thoroughly before applying paint.
- C. All surface preparation procedures should be done in conformance with local, state, and federal OSHA and EPA guidelines. Waste generation and removal should be in conformance with all OSHA and EPA guidelines.

3.2 INTERIOR SURFACES

- A. Interior surfaces shall have all existing paint removed with surface preparation SSPC –SP10 (near white metal blast). All rust pits, which penetrate 50% or more of the thickness of the steel, shall be repaired by welding. All welding shall be done in conformity with "ANSI/AWWA D100-96 Welded Steel Tanks for Water Storage".

3.3 EXTERIOR SURFACES

- A. Exterior surfaces shall have existing paint removed with surface preparation SSPC-SP6 (Commercial Blast Cleaning).

3.4 WELDS

- A. Existing weld spatter or weld spatter introduced during repair or renovation procedures shall be removed by power tool cleaning.

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3.5 APPLICATION

- A. All materials shall be applied in accordance with manufacturer's directions and any thinning required shall be done in a manner and exclusively with the type of reducer recommended.
- B. All materials shall be applied under adequate illumination.
- C. Materials shall be thoroughly mixed and kept at a uniform consistency during application.
- D. Finished work shall be uniform and of the approved color. Make edges of paint adjoining other materials or colors sharp and clean without overlapping.
- E. Total minimum dry film thickness of paint films specified herein will be measured with an Elcometer or similar instrument to determine acceptability. Special attention shall be given to weld seams.
- F. No painting or finishing shall be done under conditions, which are unsuitable for the production of good results. The surfaces to be painted shall be at least 5 feet above the dew point. Apply all paint consistent with temperature limitations as noted by the manufacturer. Do not apply finishes in spaces where dust is being generated.

3.6 FIRST ANNIVERSARY INSPECTION

- A. The Owner shall establish a time period for inspection of paint systems within the contract guarantee period in accordance with Section 9 of AWWA D102. The Contractor shall comply with said Section 9 at no additional cost to the Owner.

3.7 DISINFECTION AND STERILIZATION

- A. Disinfection and Sterilization shall be in accordance in Specification 331313 – Water Storage Tank Disinfection

3.8 WORKMANSHIP AND CLEANUP

- A. The contractor shall keep the premises clean at all times and shall remove all rubbish as often as directed by the Engineer. All debris is to be removed from the grounds.
- B. The existing water storage tanks are in close proximity to residential property owners. The Contractor shall take additional care when performing the work to avoid any damage to residential property; if any damage does occur, the Contractor shall be solely responsible for any and all costs necessary to restore/repair the adjacent property to its original condition.

3.9 BASIS OF PAYMENT

ADDENDUM #1
1/16/2019

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- A. Measurement and payment for all work and materials described in these specifications shall be included in the Contractor's lump sum bid prices as shown in the Bid Schedule.

END OF SECTION 099050