



ADDENDUM NO. 1

DATE: February 18, 2025

PROJECT: City of Hot Springs
Amity Road Tank Repainting and Repairs
Hot Springs, AR 71901

BID DATE: February 24, 2025, 2:00 PM

This Addendum forms a part of the Contract Documents and modifies the original documents provided to Bidders, as noted below. Acknowledge receipt of this Addendum in the space provided in the BID FORM. Failure to do so may subject the Bidder to disqualification.

Item 1. Specifications –

a. Basic Requirements 010000:

Revise subsection 1.4.A.2 as follows:

2. Replace "Little Rock, AR 72205" with "Little Rock, AR 72211"

b. Cleaning & Painting 090000:

Revise sub-section 1.1.A as follows:

"7. Tank Address: 264 Amity Rd, Hot Springs National Park, AR 71913."

Revise sub-section 1.3.E as follows:

"E. Submit NSF 61 and NSF 600 Certifications for each coating systems."

c. Repairs and Improvements 331619:

Revise sub-section 2.2.B as follows:

Replace "AAW Standard D102-97, Section 5.2" with "AWWA Standard D102-24, Section 5.2."

Item 2. Inspection Report

FOR INFORMATIONAL PURPOSES:

2024 Preliminary Inspection Report on the Amity Road Tank is available for informational purposes only.

END OF ITEMS

All other provisions of the Contract Documents remain unchanged. Acknowledge receipt of this addendum on the Bid Form. Bids must be received at 324 Malvern Avenue, Hot Springs, Arkansas 71901 at 2:00PM Central Standard Time, February 24, 2025.



2/18/2025

Matt Dunn, PE (Crist Engineers, Inc.)

Date

Crist Engineers, Inc.

205 Executive Court
Little Rock, Arkansas 72205
Telephone (501) 664-1552
Fax (501) 664-8579
www.cristengineers.com



Consulting Engineers

Matthew D. Dunn
Craig A. Johnson
Brian N. Wintle

Please EMAIL this form to Crist Engineers, Inc. at:

abrown@cristengineers.com

Please call Morgan Ussery at 501-664-1552 if you have any questions.

The Bidder shall acknowledge receipt of Addendum No. 1 by return EMAIL.

Bidder shall acknowledge Addendum No. 1 on Section 004100 Bid Form (C-410) Addendum No. 1.

Acknowledged by: _____

Please Print

Please Sign

Organization or Company Name: _____

SECTION 010000
BASIC REQUIREMENTS

PART 1 - GENERAL

1.1 DESCRIPTION AND SCOPE OF WORK

- A. The work included in this Contract consists of the furnishing of all tools, labor, equipment, materials, and supplies necessary to fully clean, repair and paint to the satisfaction of the Owner the Amity Road Tank with all incidental and ancillary work as described herein. Installation is to be complete and inclusive of pipe, fittings, excavation, trenching, bedding material, backfill material, concrete, acceptance testing, traffic control, trench safety, and restoration of streets and property.
- B. Whenever in these Documents the word "Engineer" appears, it shall be understood to mean Crist Engineers, Inc., acting either directly or indirectly as authorized agents of the Owner. In these Documents where the word "Owner" appears, it shall be understood to mean the City of Hot Springs, Arkansas.
- C. Work or material not specifically mentioned in the Specifications, but designated on the Drawings, or forming an essential part of the Work mentioned or designated, shall be furnished, and installed by the Contractor as though specifically mentioned.
- D. The work shall be by one General Contractor, utilizing Subcontractors for those specialties and portions of the Work that the General Contractor chooses to subcontract. **No painting subcontractors will be allowed.** All Subcontractors are subject to approval by the Owner in accordance with applicable sections of the General Conditions to these Specifications. The General Contractor shall maintain a responsible representative on-site whenever his subcontractors are on-site and engaged in the Work.
- E. All work shall be performed by the Contractor in a thorough and workmanlike manner, in full accordance with the Drawings and Specifications by skilled and competent workmen well experienced in such painting methods and techniques.
- F. Any reference in these Specifications to an engineering standard (such as ASTM or AWWA) shall be to the latest version or edition as of the Bid Date.
- G. The Contractor shall not be permitted to sublet, sell or assign this contract or sublet any of the work to be performed hereunder without the written consent of the Owner and any such assignment or subletting of any such work without said consent shall be null and void and without force and effect. The Owner shall have the right to assign in whole or in part its rights hereunder.

1.2 COPIES OF SPECIFICATIONS

- A. The Owner will furnish the Contractor three (3) sets of Specifications at no cost to the Contractor. Additional sets may be obtained from the Engineer at the cost of reproduction and delivery.

1.3 PERMIT(S)

- A. The Contractor shall be responsible for securing any required permit for the construction of the Project.

1.4 WRITTEN NOTICES

- A. Written notices, when required by the Contract Documents or for purposes of project administration, shall be mailed by Certified Mail, return receipt requested, as follows:
 - 1. If to the Owner: City of Hot Springs, Arkansas
133 Convention Boulevard
Hot Springs, Arkansas 71901
 - 2. If to the Engineer: Crist Engineers, Inc.
1 Executive Center Court
Little Rock, AR 72211
 - 3. If to the Contractor: At the address as stated in the Agreement.

1.5 SAFETY REQUIREMENTS

- A. Contractor shall be totally responsible for all necessary safety measures and precautions as stipulated in the General Conditions to these Specifications, and in compliance with the Occupational Safety and Health Administration's (OSHA) requirements applicable to the work of the various kinds as called for under this Contract.
- B. The Contractor shall be totally responsible for providing and maintaining any necessary and required hoists, rigging, ladders, electrical equipment, scaffolding, and hand or power tools, etc. to provide for the protection of workmen and the Owner's personnel during the duration of the Work under this Contract.

1.6 ENVIRONMENTAL ASPECTS

- A. The work shall be planned and executed in full compliance with the requirements of the Federal Environmental Protection Agency (EPA), the Arkansas Department of Energy and Environmental, and all local authorities.
- B. Noise Control: The work shall be planned and executed to minimize noise on the construction site. All applicable measures for noise control as required by OSHA standards shall be used.
- C. Burning: Burning shall not be permitted. All trash, debris, scrap, or waste materials resulting from construction operations shall be hauled off-site for disposal. Contractor shall be responsible for disposal of all such debris in an approved disposal area.

1.7 CONSTRUCTION CONTROL, LAYOUT, AND SCHEDULING

- A. The Contractor shall prosecute the work with due diligence and such a rate and in such manner as in the opinion of the Owner is necessary for completion within a reasonable time. Contractor shall employ such number of construction crews as are necessary to construct said project within the allotted time provided.

1.8 APPLICATION FOR PAYMENT

- A. Submit an itemized list of quantities to the Owner utilizing Unit Prices and a schedule of values in Application for Payment.
- B. Pay Periods: Calendar Month.

- C. If requested, the Contractor shall submit to the Owner for review a detailed schedule of progress indicating the sequence of work, time of starting and anticipated completion of each part, and any unusual or critical aspects of the scheduling. Schedule may be of graphic form indicating time elements for the various portions of work. Revise and resubmit schedule as required.

1.9 CONFERENCES

- A. The Engineer will schedule a preconstruction conference after Notice of Award. Project progress meetings may be held periodically.

1.10 QUALITY ASSURANCE

- A. Maintain quality control over suppliers, manufacturers, products, services, site conditions, and workmanship to produce work of specified quality.
- B. Comply fully with manufacturer's instructions.
- C. Comply with specified standards as a minimum quality for the Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

1.11 REFERENCES

- A. Conform to reference standard by date of issue current as of date of Contract.
- B. The applicable codes and standards referred to in these specifications shall establish minimum requirements for materials, equipment, and installation, except where more stringent requirements are called for on the Drawings or elsewhere in the Contract Documents. Any conflict between the referenced codes and standards and the Drawings and Specifications shall be resolved by the Owner, whose decision shall be binding upon all parties. All codes and standards referenced shall be the latest revision at the time of bidding.

1.12 TEMPORARY ELECTRIC POWER

- A. Single phase power is available on site for use by the Contractor at no cost. The Contractor shall be responsible for additional power needs.

1.13 SANITARY FACILITIES

- A. Contractor shall provide and maintain required sanitary facilities and enclosures for the appropriate handling and disposal of all human waste, solid waste, and construction waste.
- B. Maintain clean and sanitary conditions.

1.14 WATER FOR TESTING AND DISINFECTION

- A. The Owner will provide, at no cost to the Contractor, all water that is required for abrasive blasting, washdown, cleanup and initial disinfection of the tank.
- B. The Contractor is responsible for providing all fittings, valves, hoses, tanks, and incidentals necessary for the utilization of water furnished by the Owner.
- C. Contractor shall not needlessly waste water.

1.15 CONTRACT CLOSEOUT PROCEDURES

- A. Submit written certification that Contract Documents have been reviewed, Work has been inspected, and Work is complete in accordance with Contract Documents and ready for Owner's inspection.
- B. Submit final Application for Payment identifying total adjusted Contract Price, previous payments, and amount remaining due.

1.16 CLEANING AND DISPOSAL

- A. Maintain areas free of waste materials, debris, trash and rubbish. Maintain site in a clean and orderly condition. Do not allow paper, cans, food wrappers, or other debris to accumulate and blow onto adjacent property. No trash shall be burned or buried on the job site and shall be properly disposed of by the Contractor.
- B. Execute final cleaning prior to final inspection.
- C. Drainageways, street surfaces and shoulders, driveways, lawns and landscaping, culverts, and all areas affected by construction shall be restored to equal or better than original condition. Ditches and drainageways shall be left clean and unobstructed and restored to their original cross-section and grade. Culverts shall be left "open" and free flowing.

1.17 FENCE RESTORATION

- A. The Contractor shall be responsible for maintenance of fences during construction. The Contractor shall provide as necessary temporary fencing, gates, etc., as may be required to afford access to the construction site and maintain the full integrity of the fence.
- B. All fences disturbed by construction activity shall be restored to their original condition or better using fencing materials that are of the same size, metal gauge, and character as the original fence.

1.18 CHANGE ORDER PROCEDURES

- A. Submit itemized list of quantities and supporting data to Owner for preparation of change order.

END OF SECTION

SECTION 090000

CLEANING AND PAINTING

PART 1 – GENERAL

1.1 HISTORY AND DESCRIPTION OF AMITY ROAD TANK

- A. Tank:
 - 1. Constructed in 2007
 - 2. Capacity: Approximately 1,000,000 gallons
 - 3. Tank: Standpipe
 - 4. Type of Construction: Welded Steel
 - 5. Tank Height: 108'
 - 6. Tank Bowl Diameter: 40'8"
 - 7. Tank Address: 264 Amity Rd, Hot Springs National Park, AR 71913.
- B. All federal, state, and local regulations shall be strictly adhered to for worker protection, environmental pollution control, handling of debris, determining if the debris is a hazardous waste and assuring proper disposal for work on interior and exterior surfaces.
- C. The Contractor is encouraged to inspect the tank and tank location prior to submitting his bid. The tank drawings located in the Appendix are for general information purposes only. The Contractor shall be responsible for verifying all information shown on the tank drawings located in the Appendix.

1.2 GENERAL REQUIREMENTS

- A. The water storage tank shall be cleaned, coated, and repaired in accordance with ANSI/AWWA D102-21 standard specification for Coating Steel Water Storage Tanks, AWWA D100 standard for Welded Steel Storage Tanks for Water Storage.
- C. Work includes preparation of surfaces which are to receive finishes; collection, handling, and disposal of debris; tank repairs; finishes for surfaces; testing and cleaning.
- D. The Contractor shall clean the interior of the tank, removing all sludge accumulations and other materials. Dispose of material removed in accordance with applicable laws and ordinances.
- E. All exterior and interior tank surfaces shall be painted. All water shall be drained from the tank and riser prior to interior and/or exterior surface preparation and painting.
- F. Color selection shall be determined by the Owner.
- G. Intermediate coats should be slightly tinted so as to provide better definition of coverage by the final coat. All interior wet coatings shall be NSF approved.
- H. The Contractor shall schedule draining and removing the tank from service with the Owner. The Owner shall operate all distribution system valves. The Contractor shall not open or close any valves or otherwise affect the water distribution system without permission of the Owner.
- I. The Contractor shall be responsible for all costs associated with sampling, worker protection, environmental pollution control, handling of debris, laboratory analysis and

waste disposal.

1.3 PRODUCTS - ACCEPTABLE MANUFACTURERS

- A. Specified products are those manufactured by Tnemec Co., Inc. of Kansas City, Mo. and are specified as the standard of quality required for use on this project. The representative is as follows:

Eagle Rock Coatings, LLC
P.O. Box 24402
Little Rock, Arkansas 72221
Phone 501-231-7919 (Myron McWherter is local representative)

- B. Equivalent products by other manufacturers are acceptable, providing they meet or exceed all performance criteria of the specified materials. No products shall be considered that would decrease film thickness or offer a change in generic type of coating specified.
- C. In the event the Contractor submits a different paint, the Contractor shall submit complete data with the bid including performance data as determined by an independent testing laboratory.
- D. Products for each specified function and system shall be of a single manufacturer.
- E. Submit NSF 61 and NSF 600 Certifications for each coating system.

1.4 SUBMITTAL REQUIREMENTS

- A. The Contractor shall submit to the Engineer for review and approval four (4) copies (minimum) of the following items prior to initiating any work under this contract.
1. Paint manufacturer's descriptive data sheets describing each and every product to be applied; to include solids volume, performance data, and recommendations for mixing, thinning, application, and curing. Interior paint must be NSF-61 and NSF 600 approved.
 2. Color cards showing the color availability for each prime and finish coat. The Owner will select the color from the standard range of colors; and no blending will be required.
 3. Environmental and worker protection plan.

1.5 PRODUCT DELIVERY, STORAGE AND SAFETY

- A. Deliver paint and other materials in sealed original-labeled containers, bearing the manufacturer's name, type of paint, brand name, color, lot number designations, and instructions for thinning and applying.
- B. Store all materials in a safe and protected place maintained at a temperature of 35° to 110°F or manufacturer's requirements, whichever are more stringent. Protect all materials from the elements.
- B. Contractor shall take all precautionary measures to prevent fire hazards and spontaneous combustion.

1.6 PROTECTION AND SAFETY

- A. Protection of surfaces not scheduled to be coated.

B. The Contractor will ensure the following during tank painting.

1. Take all precautions necessary to avoid adversely affecting the surrounding environment with blast media or paint particle drift or overspray. All of the Contractor's activities shall comply with federal, state, and local requirements for environmental pollution control and employee safety.
2. Plug and protect the tank inlet/outlet pipe at all times during the execution of work to prevent damage or entrance of blasting media or debris.
3. Protect the level controls from paint and damage. Repair damage as a result on inadequate or unsuitable protection.
4. Protect non-metal surfaces from paint and debris, particularly concrete surfaces. Contractor shall repair any surfaces damaged from inadequate or unsuitable protection.
5. All of the Contractor's equipment and activities on the job site must be in compliance with all applicable federal, state, and local laws and regulations. Defective or substandard equipment must not be used. Hoists, rigging, ladders, electrical equipment, scaffolding, and hand or power tools must be in conformance with applicable safety regulations and OSHA requirements.
6. Inspect all tank surfaces, ladders, and rigging connections before they are used. Any excessively deteriorated parts shall be repaired or replaced before use.
7. A detailed Worker Protection Plan must be maintained by the Contractor. The Plan must comply with the most current OSHA or other governmental agencies standards for workers exposed to blasting media, lead, a hostile environment, and working in confined spaces or at dangerous heights. The Plan shall include, but not be necessarily limited to, the following programs that the Contractor shall implement for this work:
 - a. Employee exposure monitoring
 - b. Respiratory protection
 - c. Personal Hygiene
 - d. Medical surveillance/blood lead level tests
 - e. Employee training
 - f. Protective work clothing
 - g. Housekeeping requirements
 - h. Verification and documentation of compliance
 - i. Warning Signs
8. Submit Paint Manufacturer's product data sheets as well as Material Safety Data Sheets (MSDS) and have these documents available for all employees on the job site.
9. Ensure all employees are aware of hazards peculiar to this specific job site; and are aware of the location of first aid stations, hospitals, and doctor's clinics; and are informed of emergency phone numbers.
10. Contractor shall immediately report to the Owner any condition or emergency that could pose a threat to the health or welfare to any employee or to the general public in the vicinity of the job site.

1.7 SURFACE PREPARATION

- A. Interior - Remove all visible oil, grease, soil, dirt and other soluble contaminants in accordance with SSPC-SP1. Weld slag, weld spatter, rough and sharp edges of weld seams shall be ground smooth. All surfaces shall be abrasive blast cleaned by Near-

White Blast Cleaning in accordance with SSPC-SP10. A surface profile of 1.5 mils is required.

- B. Exterior - Remove all visible oil, grease, soil, dirt and other soluble contaminants in accordance with SSPC-SP1. Weld slag, weld spatter, rough and sharp edges of weld seams shall be ground smooth. All surfaces shall be abrasive blast cleaned by Near-White Blast Cleaning in accordance with SSPC-SP6. A surface profile of minimum 1.5 mils is required.
- C. Abrasive material shall be selected to produce the desired profile, and there shall be no evidence of polished or peened surfaces. The depth of the profile shall be monitored and measured by the use of a Surface Profile Comparator or Profile Tape.
- D. Compressed air used for blasting shall be free of oil and water. Adequate traps and separators shall be used to ensure elimination of all contaminants. Blasting shall not be performed when the surface temperature is less than 5°F above the dew point to prevent formation of rust bloom. Dew point and surface temperature readings shall be taken routinely prior to blasting to help ensure this condition is met. All dust, blasting residual, debris, and contaminants shall be removed from surfaces by high pressure air blast or equal before any of the surfaces are coated.

1.8 APPLICATION OF COATINGS

- A. The painters shall mix, thin, and apply each coating at the rate and in the manner specified by the paint manufacturer. Deficiencies in film thickness shall be corrected by the application of additional coats. Coatings shall not be applied when temperatures are above or below paint manufacturer's recommendations. Coatings shall not be applied to damp or wet surfaces, or in rain, fog, or mist. Surface temperatures shall be at least 5°F above the dew point. Work areas shall be free from air borne dust or contaminants at the time of coating application, and when coating is drying. Painting shall be completed well in advance of the probable time of day when condensation will occur and/or the surface temperature is expected to drop below the minimum acceptable as recommended by the paint manufacturer.
- B. Do not use materials beyond manufacturer's recommended shelf life.
- C. Do not use mixed materials beyond manufacturer's recommended pot life.
- D. Prepare surface and touch-up welds, burned and abraded areas with specified primer before applying full field coats.
- E. Finish coats shall be uniform in color and sheen without streaks, runs, sags, laps, or missed areas. Any such defect shall be corrected by the painter with primer or finish coats as required to reach an acceptable condition as approved by the engineer.
- F. The paint manufacturer's recommended curing time shall elapse before the application of subsequent coats. Adequate ventilation shall be provided for proper drying and curing of paint on the tank interior. A minimum of 10 days, or longer if recommended by the paint manufacturer, shall elapse before the tank is disinfected, flushed, or filled with water.

1.10 INTERIOR SURFACE COATING

- A. The interior coating shall conform to Inside Coating System No. 5 as specified in Section 4.4.6 of AWWA D102. This is a three-coat system consisting of an inorganic zinc-rich primer and intermediate and finish coats of two-component epoxy. The materials in this coating system must be approved for potable water service. After the second coat has

been applied and cured, the Contractor shall caulk any and all surface imperfections such as gapped, lapped, or skip weld seams.

<u>Coat</u>	<u>Tnemec Product</u>	<u>Dry Film Thickness (mils)</u>
Primer:	Series 91-H ₂ O Hydro-Zinc	2.5 – 3.5
Stripe:	Series 21-39BL Epoxoline	2 – 6 (Backrolled)
Finish:	21-WH16 Off-White Epoxoline 4-12	12 – 16

- B. The completed interior coating shall have a minimum acceptable DFT of 10.5–15.5 mils when checked with a calibrated magnetic mil thickness gauge.

1.11 EXTERIOR SURFACE COATING

- A. The exterior coating shall conform to Outside Coating System No. 4 as specified in Section 4.3.5 of AWWA D102. This is a three-coat system consisting of a zinc-rich primer, and intermediate coat of an aliphatic polyurethane, and a finish coat of two-component aliphatic fluorourethane.

<u>Coat</u>	<u>Tnemec Product</u>	<u>Dry Film Thickness (mils)</u>
Primer:	Series 91/94-H ₂ O Hydro-Zinc	2.5 – 3.5
Intermediate:	Series 73/1095 Endurashield	2 – 3
Finish:	Series 700 Hydroflon	2 – 3

- B. Urethane Accelerator: Tnemec Series 44-710 Urethane Accelerator may be used when the air, material or surface temperature is anticipated to be between 35° and 60°F during application and/or curing.
- C. The completed exterior coating shall have a minimum acceptable DFT of 7 mils when checked with a calibrated magnetic mil thickness gauge.

1.12 Color Scheme

- A. The Owner shall select colors for the project. The contractor shall submit a chart of the manufacturer's available colors to the engineer thirty (30) days prior to coating
- B. Tank color shall be as follows. Submit color scheme to engineer for approval.
- | | | |
|----|----------------------------|------------|
| 1. | Tank Body – Bottom Third | Clear Sky |
| 2. | Tank Body – Top Two Thirds | White |
| 3. | Logo Color | Cadet Blue |

1.12 INSPECTION REQUIREMENTS

- A. The degree of surface cleanliness and blast profile of surfaces shall conform to the Specifications. The Contractor shall reference SSPC or NACE visual standards and consult Testex tape to verify anchor patterns.
- B. Wet film thickness readings of successive coats shall be taken as soon as possible at a frequency of at least one per 100 square feet.
- C. Dry film thickness readings shall be taken prior to application of the successive coat with a nondestructive magnetic type mil gauge in accordance with SSPC-PA-2.
- D. All interior coated steel surfaces shall receive holiday testing (by Owner's representative) with a Tinker and Razor Model M-1, or equivalent, low voltage holiday detector. Any areas failing this test shall be marked and receive an additional repair coat in accordance

with Section 1.10 Interior Surface Coating until satisfactory test results are achieved.

- E. The finish coat shall be visually inspected and shall be free of sags, runs, wrinkles, and other excessive film build characteristics and surface defects. Any and all such defects shall be repaired by the Contractor to the satisfaction of the Owner and at no additional cost to the Owner.
- F. After the tank interior is blasted and before it is painted, the Contractor shall inspect the interior welds. If the welds are not full so as to prevent a leak, the Contractor shall notify the Owner to determine what remedial action may be needed. If remedial action is needed, it will be addressed by a Change Order.

1.13 CLEANUP, COLLECTION AND DISPOSAL OF BLASTING RESIDUALS

- A. The Contractor shall prevent the migration of any blast media, dust, and paint residue onto adjacent property.
- B. Upon completion of the painting operations, the site shall be thoroughly cleaned up. All empty paint containers, debris, and trash shall be collected and transported to a suitable disposal site. No such trash or debris will be disposed of by placement on adjacent property or by burying on the tank site.
- C. Any fencing that is removed in order to facilitate painting and sandblasting shall be restored to equal or better than original condition.
- D. The Contractor shall collect and dispose of all blasting residuals and material in accordance with federal, state, and local requirements in a licensed sanitary landfill, with full documentation of disposal provided to the Engineer and Owner.
- E. The Contractor shall be responsible for all costs associated with collection and disposal of blasting residuals that may result from the execution of this project.
- F. The Contractor shall place waterproof plastic sheeting on the ground surrounding the exterior of the tank, which is bermed to a sufficient depth to contain all debris generated in the cleaning process.

1.14 GUARANTEE AND INSPECTION

- A. The Contractor will guarantee his work for a period of one (1) year after the date of substantial completion of the work required under this Contract. The Contractor shall repair any defects due to faulty material or workmanship which appear on the tank or accessories during the one-year warranty period after the date of substantial completion.
- B. The Contractor shall attend a first anniversary inspection about eleven (11) months after the date of substantial completion. No separate or special payment will be made to the Contractor for this inspection, or for any repairs needed during the one-year period.

END OF SECTION

SECTION 331619

REPAIRS AND IMPROVEMENTS

PART 1 – GENERAL

1.1 GENERAL REQUIREMENTS FOR AMITY ROAD TANK

- A. Immediately after blast cleaning the tank interior surfaces, an inspection shall be made by the Engineer, Owner, or Representative in the presence of the Contractor to determine if any additional repair items will be authorized by the Owner.
- B. All repairs shall be made in a manner to affect a permanent repair. All welding shall be performed by qualified personnel certified by ASME requirements in all positions. Care shall be taken to avoid damage to seams, plates and pipe connections that could result in leakage. The Contractor shall guarantee the water tank to be free from leakage upon completion of his work.
- C. Any welding on the tank shall be in conformance with requirements of AWWA Standard for welded steel tanks for water storage (AWWA D100-21).
- D. All sharp edges, weld spatter and burrs should be ground flush with surrounding area.
- E. Caulk the crevice along the top of the shell where the roof connects. The caulking material above the high-water level shall be Sika-Flex (Estimated 155LF)
- F. Caulk pits deeper than 1/8" with Tnemec Series 215 Surfacing Epoxy (Estimated 45 Square Ft)
- G. All roof lapped seams shall be sealed with caulk. The caulk shall be NSF approved such as Sika-Flex 1A. (Estimated 260LF)
- H. Install stainless steel safety chains across the opening at the top of the exterior shell ladder and the handrail and mid-rail heights.
- I. Install a freeze-proof drain valve in the existing coupling in the lower shell. The valve should be constructed of corrosion resistant material.
- J. Cut in a new 36"x16"x12" deep sump pit near the SW shell manway. Cut concrete for new sump. New sump shall be constructed of similar metals to the tank floor.
- K. Weld pits deeper than 1/8" (Estimated 70 Square Inches)
- L. Secure both shell manway covers using stainless-steel bolts and washers and brass nuts. Install new rubber gaskets.
- M. Remove the existing anchor bolts chairs and grind all burrs flush. Install new flared chairs that will allow the backside of the bolts to be properly abrasive blast cleaned, coated, and, inspected. (36 total)
- N. Seal the concrete to steel interface along the lower shell panel chime with Dow Corning CWS caulk.
- O. Demo capacity indicator.

1.3 ADDITIONAL REPAIRS

- A. If the Contractor discovers the need for any additional tank repairs during the progress of his work, he shall immediately notify the Owner. The Owner shall make a decision concerning the need for any identified repairs as soon as practical and will direct the Contractor to make the repair at an agreed upon price. The Contractor will be paid for all additional repairs by contract change order.

Part 2 – EXECUTION

2.1 Clean Up

- A. Remove all debris and leave site in pre-project condition

2.2 Guarantee

- A. The contractor shall guarantee his work for a period of two years to the extent that he shall repair and defects due to faulty workmanship or materials which may appear on the structure during this period.
- B. The first anniversary inspection shall be conducted by the owner or representative with the contractor present in accordance with AWWA Standard D102-24 Section 5.2.

END OF SECTION