

REQUEST FOR QUALIFICATIONS & PRICING

THE TOWN OF WELLTON, AZ
IS SOLICITING PROPOSAL SUBMITTALS
TO PERFORM

TANK REHABILITATION SERVICES

250,000 GALLON
GROUND STORAGE TANK

NOVEMBER 2012

TOWN OF WELLON, AZ
PO BOX 67
28634 OAKLAND AVE
WELLTON, ARIZONA 85356

GENERAL INFORMATION

PURPOSE

The Town of Wellton (Wellton) is soliciting Requests for Qualifications and Proposed Pricing (RFQP) to identify firms capable of inspecting and rehabilitating the Town's 250,000 gallon welded steel water tank that is in need of immediate rehabilitation.

It is the sole intent of the RFQP to determine the most qualified firm to which the Town could contract with while verifying that project costs are reasonable and comparable to typical industry pricing. Evaluative criterion used to determine qualifications and rank respondents will be addressed in subsequent sections of this document.

RESPONSE INFORMATION:

The response to this RFQP shall be mailed or delivered to the following address:

Town of Wellton

28634 Oakland Ave

PO Box 67

Wellton, Arizona 85356

Attn: Mr. Joseph A. Grant, Public Works Director

The RFQP original and three additional copies shall be delivered in a single sealed envelope. Deliveries will be received by WELLTON at the front reception deck at the above address until 5:00 P.M. on November 27, 2012 at which time said proposals will be recorded and turned over to Town Officials for careful evaluation.

The envelope shall be clearly and legibly marked as follows:

“RFQ FOR PROFESSIONAL TANK REHABILITATION FOR THE TOWN OF WELLTON”

Questions shall be directed to: **Joseph A. Grant, Project Coordinator @ (928. 785-3348 or via e-mail at jgrant@town.wellton.az.us.**

The Town will **NOT** open or read any submission that arrives after the prescribed deadline. All submissions that arrive on time will be reviewed by the Town and their Engineer. The review process will first determine if all the mandatory documents are submitted and completed in their entirety. Should a single mandatory document not be present, arrive late, or is incomplete, the Firm will be immediately disqualified without any further review of their response.

The **Mandatory Documents and Criteria** that must be submitted with each response are as follow:

- A. **Mandatory Qualifications**
 - 1. Firm must have an “A License” in good standing in the state where the project will take place.
 - 2. If a California based firm or the project is in California, the Firm must have an Ex-Mod rating of below 0.9.
- B. Included on top of all submittals should be the Submittal Checklist (Attachment A found at this RFQP..
- C. The Firm attended the job walk or has visited the job site within the last 2 years while accompanied by personnel employed by the Town.
- D. Qualification submittals provided in bullet point format following the information requested in the “Evaluation Criteria” section of this RFQP.
- E. Notarized Affidavit (Attachment A found at the end of this RFQP.
- F. Sample Insurance Certificate
- G. Pricing Sheet – the included pricing sheet should be used (Attachment C found at the end of this RFQP.
- J. Technical Proposal – Including scope of work and materials being utilized
- I. Schedule of Work starting from NTP to completion
- J. Product Data sheets for all coatings used during renovation process
- L. Safety plan applicable to the scope of work and location

RIGHT OF ACCEPTANCE/REJECTION/CANCELATION:

Town Officials reserve the right to waive formalities in any proposal, and to reject any or all proposals in whole or in part with or without cause and/or to accept the proposal that in its judgment will be in the best interest of the Town.

The Town reserves the right to reject any conditional proposal and will normally reject those, which make it impossible to determine the intent of the proposal. All respondents must fully understand the “all inclusive” nature of the Town’s work scope request and must therefore structure their proposal to eliminate contingency pricing.

The Town will institute a point system to quantitatively assist in the determination of the most qualified respondent. The categories within which the points will be awarded are detailed in a subsequent section of this RFQP. The Town’s evaluation procedures and the mechanism of awarding points is confidential and will not be disclosed to any respondent or third party for any reason.

SCOPE

It is the intent of the Town to solicit a firm possessing the capabilities to coat and repair the Town’s 250,000 gallon steel water storage tank. The Town’s operational requirements are of paramount importance and will always take priority when conflicts with scheduling arise.

JOB WALK

The Town will hold a job walk approximately two weeks before the RFQP responses are due. The job walk will be mandatory. The contract for renovation will not allow change orders, therefore it is in the best interest of the Town if Firms intending to respond thoroughly inspect the tanks coating and steel conditions. As a result points will be awarded in the RFQP scoring process to those Firms who inspect the tank. The tank will be out of service and available for the interior to be viewed through the shell manway. Firm’s will have the option to climb the tank and inspect the interior through the roof hatch.

All Firms attending the job walk should arrive at the below location on the specified date with all required certifications and equipment for a proper inspection. NO one will be allowed to climb the tank without proper fall protection equipment and current OSHA fall prevention training certification. Additionally should any Firm wish to enter the tank they must provide proof of confined space training, provide a working gas meter, and follow all permit confined space procedures.

November 13, 2012 at 10:00 a.m. at the Town Water Plant, 10815 Dome Street.

SELECTION PROCEDURE

It is intended that one Firm shall be selected to perform the subject services on behalf of the Town for the rehabilitation of its water storage tank. The Town representatives will rank each prospective Firm in order of preference, based upon items addressed in the Qualification Proposal. Although the selection procedure is predominately focused on the qualifications of the Firm's local team, the pricing of the work must also be considered. On this basis, this RFQP must address a work scope and cost structure for rehabilitation and upgrading of the 250,000 gallon tank. All necessary tank information is detailed in the "General Tank Information" section of this RFQP.

EVALUATION CRITERIA

Proposals will be evaluated by the Town's evaluation committee through the use of criterion applicable to the Firm and the Firm's Project Team. The Project Team capabilities and experience are considered to be imperative to project success. Specific evaluative criterion and reward points associated with this Project Team and the Firm is detailed as follows.

SCORING SYSTEM

Provide information that is accurate and truthful to assist the evaluation committee in awarding points. Responses should be provided in a similar format as the point rating scale below to assist reviewing and awarding points. Points will be deducted for responses that are not concise and structured similar to topics below.

MANDATORY DOCUMENTS AND CRITERIA

- A. Mandatory Documents Submitted and all Mandatory Criteria Met [50 points]
- B. Mandatory Documents Incomplete or Mandatory Criteria NOT Met [0 points]

MAXIMUM POINT TOTAL = 50 POINTS

FIRM AND PROJECT TEAM

- A. Project Manager Attributes [5 points max]:
 - a. Experience and capability
 - b. Two references of tank work done in Wellton in the last 2 years with accurate contact information to allow verification.
- B. Firm Attributes [5 points max]:
 - a. Firm has in house capabilities to provide and/or construct welded tank

appurtenances including but not limited to welded plates, vents, overflows, manways, handrail, roof hatches, level indicators, etc.

- b. Firm has a full time in-house engineering staff including AZ Registered Professional Engineers

MAXIMUM POINT TOTAL = 10 POINTS

AFFIDAVIT BY CONTRACTOR REGARDING RESPONSIBILITY AND COMPLIANCE

- A. Quality of answers and benefit to the Town [10 points max].

MAXIMUM POINT TOTAL = 10 POINTS

TECHNICAL PROPOSAL AND PRICE

- A. Technical Proposal [10 points max]
 - a. Quality and detail of proposal where scope is equal to scope listed in the RFQP
 - b. Did the firm inspect the tank
- B. Price [20 points max]
 - a. Points will be awarded as follows
 - i. Lowest qualified price 20 points
 - ii. Second lowest qualified price 15 points
 - iii. Third lowest qualified price 10 points

MAXIMUM TOTAL = 30 POINTS

TOTAL POINTS POSSIBLE = 100 POINTS

The Town expressly reserves the right to personally visit and inspect the Firm's physical assets and operations. This inspection is intended to verify that the Firm possesses sufficient capabilities to perform steel repair, steel modifications, supply appurtenances and replace steel tanks or construct new steel tanks as deemed necessary by the Town.

The attributes of the Firm and the Firm's parent company or subordinate company (where applicable) shall be considered one in the same for the purposes of this evaluation process so long as both entities operate from the same head-quarters facility, share management personnel and cooperatively endeavor to provide the products and services required by this RFQP.

TANK INFORMATION COLLECTION

A job walk will be established for all Firms and Project Teams to visit tank sites to collect information deemed necessary by the Firm in their completion of the RFQP. The visit will be performed during normal operations with the tank in-service and will be performed at no cost to the Town. Qualified Firms must be prepared to assess logistical constraints, heavy metal constituency in coatings, Federal, State and Local regulatory compliancy with in-place safety, security and sanitary equipment, interior/exterior coating integrity, corrosion degradation and visually identifiable structural anomalies. Accessibility to interior tank surfaces will be limited to the roof man-way hatch and through the shell man-way. The Town will provide a technician to unlock and re-lock the perimeter gate, ladder gate and roof man-way hatch. The technician will not be responsible or available to the Firm for any additional support.

All Firm personnel participating in the inspections shall provide proof of current fall protection certification and confined space certification. Additionally, if Firm personnel choose to physically enter the roof man-way hatch or shell hatch, a Town approved chlorination procedure must be implemented along with fall prevention and confined space entry procedures. In keeping with confined space entry procedures and fall protection requirements, each Firm intending to perform site inspections shall supply a two person team (minimum, with both team members possessing current and verifiable certification documentation.

It is assumed that all qualified Firms are fully acquainted with the Town's requirements to insure absolute compliance with Town procedures. Each qualified Firm shall have a duty to request any information from the Town as it deems necessary to prepare this price proposal. **No change order will be granted or additional compensation permitted once this RFQP is submitted to the Town and accepted by the Town.**

SPECIFIC TANK INFORMATION

The following information addresses the basic details of the Town's tank that requires renovation.

Work includes Exterior and Interior Surface Preparation, Coatings and Regulatory Upgrades:

- Tank Name: Tank 1
- Dimensions: 37'D x 32'H
- Gallons: 250,000
- Design: Ground Storage Tank Welded Steel
- Built in 1992
- Current Interior Coating – Epoxy
- Inspection Blast – on the rafters and gussets to allow the engineer to assess structural integrity.
- Current Exterior Coating – Urethane (**Lead and Chromium Unknown.**
- Scope of Work Overview
- Exterior Surface Preparation and Coating
- Interior Surface Preparation and Coating
- Structural Repairs
- Regulatory Upgrades

WORK SCOPE

TECHNICAL SPECIFICATIONS

FOR COATING, PAINTING, DISINFECTING & MECHANICAL UPGRADING OF THE 250,000 GALLON GST

PART I – GENERAL

Not all sections of this specification will be applicable to the referenced project. Any and all work performed on the referenced tank must meet the criteria detailed herein.

1.01 PURPOSE

- A. The purpose of this specification is to establish methods and procedures for surface preparation, coating, curing of coating, painting, and disinfection of the 250,000 Gallon Tank located at the Town of Wellton, Arizona.

- B. Safety, security, sanitary, and structural assessments have been performed on the subject tank and structure and specific modifications have been recommended. These modifications are required to achieve compliance with OSHA and ADEQ regulations along with applicable AWWA recommendations. Part 4 of this specification identifies these specific modifications with the intent of requiring installation/modification of said appurtenances prior to the installation of the specified coating systems.

1.02 SCOPE OF WORK

- A. Work to be accomplished includes furnishing and application of protective coatings and paints to interior and exterior surfaces, and disinfection of interior surfaces, including surface preparation and other work necessary to accomplish the approved end result of a totally protected and usable tank and structure, including all attachments, accessories, exposed piping and appurtenances.
- B. Work to be accomplished includes the supply and installation of all specified safety, sanitary, security and structural upgrades including surface preparation and coating application in compliance with the requirements specified herein.

1.03 DEFINITIONS

- A. “Coating” refers to protective materials used or applied on interior surfaces. “Paint” refers to protective materials used or applied on exterior surfaces.

1.04 BONDING

- A. Bonding will not be required on this project unless determined by the Town prior to award.

1.05 REFERENCE SPECIFICATIONS AND STANDARDS

- A. Without limiting the general acceptance criterion of this specification, work and equipment shall conform to applicable requirements of municipal, state and federal codes, laws and an ordinance governing the work, ADEQ requirements, Society of Protective Coating requirements, American Water Works Association recommendations, and Coating Manufacturer’s printed instructions, subject to the Engineer’s approval.
- B. The Engineer’s decision shall be final as to interpretation and/or conflict between any of the referenced code, laws, ordinances, specifications and standards contained herein.

- C. If the exterior and/ or interior coatings contain regulated Heavy Metals, in the dried film; the following regulatory requirements shall be applicable at a minimum:
1. 29 CFR 1910 “OSHA General Industry Standards”
 2. 29 CFR 1910.134, “Respiratory Protection”
 3. 29 CFR 1910.1000, “Air Contaminants - Permissible Exposure Limits”
 4. 29 CFR 1910.1020, “Employee Access to Exposure and Medical Records”
 5. 20 CFR 1926, OSHA Construction Industry Standards”
 6. 29 CFR 1926.59, “Hazard Communication”
 7. 29 CFR 1926.62, “Lead Exposure in Construction; Interim Final Rule”
 8. 40 CFR 261, “Identification and Listing of Hazardous Waste
 9. 40 CFR 262, “Standards Applicable to Generators of Hazardous Waste”
 10. 40 CFR 263, “Standards Applicable to Transporters of Hazardous Waste”
 11. 40 CFR 264, “Standards for Owners and Operators of Hazardous Waste Treatment, Storage, & Disposal Facilities”

It is the unknown to the town if the exterior coating system contains heavy metals, specifically Lead and Chromium. It is left to the contractor to perform testing as deemed necessary by the contractor to fully understand the exact constituency of heavy metals on all interior and exterior surfaces of the tank and structure. The contractors bid package will include the results of the contractors paint sampling if performed.

1.06 CONTRACTOR

- A. In accordance with Arizona Regulations a contractor possessing an “A” General Engineering License shall be the prime contractor for this project. All work pertaining to the installation of protective coatings shall be performed by a contractor possessing an L-34 License.
- B. The L-34 contractor shall have experience with the new VOC compliant coatings as referenced in this specification. An attestation referencing this experience will be required from the material manufacturer approved for use.
- C. The Project Forman and work crew designated for use on this project shall provide a minimum of five (5. project references over the last five (5. years involving surface preparation and coating application tanks similar in size and configuration to the subject tank. References will be verified.

- D. The Project Forman and work crew shall provide a minimum of five (5) project references over the last five (5) years involving tank surface preparation operations with lead and chromium based existing coatings. These projects shall include containment and disposal methods consistent with the work scope specified herein. References will be verified.
- E. All onsite contractor personnel shall possess and be prepared to exhibit proof of current certification in the following areas of safety training:
- OSHA Fall Prevention
 - Competent Person Lead Abatement
 - Confined Space Entry
 - First Aid / CPR
- F. The A and L-34 contractor shall possess insurance coverage as prescribed within the general requirements of the Contract Documents.

1.07 PRE-BID CONFERENCE

- A. A Mandatory pre-bid conference will be held at the tank site in conjunction with the job walk approximately two weeks prior to the bid due date. The specification requirements, site constraints and other issues will be discussed.

1.08 PRE-JOB CONFERENCE

- A. A Pre-Job Conference shall be scheduled prior to start of project. The Owner's representative and/or Engineer shall be present along with a representative of the Prime Contractor, Sub-Contractor, Foreman and Work Crew. The sequence of work will be discussed and will be mutually agreed upon to ensure that the work is accomplished and completed as stated in the Contract and to allow for operations flexibility by the Owner. Contractor shall furnish a complete set of submittal data for use by the Engineer. Contractor shall maintain copies of Material Safety Data Sheets for all materials to be used in coating and painting operations including, but not limited to, coatings, paints, thinners, solvents, and cleaning fluids. These MSDS's shall be readily available on-site at all times.

1.09 QUALITY ASSURANCE

- A. General: Quality assurance procedures and practices shall be used to monitor all phases of surface preparation, application, and inspection throughout the duration of the project. Procedures and practices not specifically defined herein may be used provided they meet recognized and acceptable professional standards and are approved by the Engineer.
- B. All materials furnished and all work accomplished under the Contract shall be subject to inspection by the Engineer or his designated representative. The Contractor shall be held strictly to the true intent of the specifications in regard to quality of materials, workmanship, and diligent execution of the Contract.
- C. The Contractor is responsible for verification of specification compliance through the employment of in-house NACE or ASTM Certificated Coating Inspectors and Lead Competent Inspectors. Inspection reports shall be compiled daily and reviewed by these inspectors and provided to the Engineer.
- D. The contractor is responsible for minimizing any disruption to the local residents. Equipment placement shall be designed to minimize noise and all non-hazardous debris (including water mist. must be contained within the perimeter of the site. Equipment placement and containment efficiency must be pre-approved by the Engineer prior to full scale production.
- E. Surface Preparation: Surface preparation will be based upon comparison with: “Pictorial Surface Preparation Standards for Painting Steel Surfaces”, SSPC-VIS 1, ASTM Designation D2200 and NACE Standard TM-01-70. Anchor profile for prepared surfaces shall be measured by using a non-destructive instrument such as a Keene-Tator Surface Profile Comparator or Testex Press-O-Film System.
- F. Application: No coating or paint shall be applied; when the surrounding air temperature or the temperature of the surface to be coated or painted is outside of the published material manufacturers recommendations to wet or damp surfaces or in rain, snow, fog or mist; when the temperature is less than 5 deg F above the dew point; when it is expected the air temperature will drop below manufacturers recommendations, or less than 5 deg F above the dew point within eight hours after application of coating or paint. Dew point shall be measured by use of an instrument such as a Sling Psychrometer in conjunction with U.S. Department of Commerce Weather Bureau Psychrometric Tables or equivalents.

If above conditions are prevalent, coating or paint application shall be delayed or postponed until conditions are favorable. The day's coating or paint application shall be completed in time to permit the film sufficient drying time prior to damage by atmospheric conditions.

- G. Containment: The Contractor shall conduct all operations so as to confine all non-hazardous dust, debris, water mist, over spray, dry spray, roller spatter and all other fugitive emissions to within the bounds of the site. The Contractor shall take all precautions necessary to prevent adverse off-site consequences of the surface preparation and painting operations, and shall submit at the Pre-Job Conference a procedure for damage prevention.

The containment/damage prevention plan devised by the Contractor must include the specific type and design of the physical containment structure that the Contractor intends to employ. This containment structure must be designed and constructed to achieve 100% containment of hazardous dust, debris, water mist, and fugitive emissions. At a minimum, the containment system shall be designed to meet the requirements of a Class 3W System as defined per SSPC Technical Guide 6. Class 3W Containment Systems are permitted to have an open seamed entry and partially sealed joints. The Contractor is required to configure seams and entry points to achieve 100% containment. The contractor is solely responsible for devising the work scope and containment structure to meet 100% containment requirement. The Engineer ongoing approval is required for work continuation.

Restricting operations to calm weather days and the use of dry fall coatings will not be considered as a satisfactory damage prevention plan unless these precautions are used in conjunction with an approved containment structure.

The Contractor shall be responsible for continually ensuring that the containment structure remains in uncompromised condition throughout the duration of the project. Any damage to the containment structure will require an immediate work stoppage and the employment of corrective actions as approved by the Engineer prior to the start-up of work.

Any complaints received by the Owner relating to any such potential off-site problems will be immediately delivered to the Contractor. The Contractor shall immediately halt all work and shall take whatever corrective action is required to mitigate any such problems. All costs associated with protection of off-site properties and/or correction of damage to property as a result of any operations shall be borne directly by the Contractor at no additional expenses to the Owner.

1. Owner approval of Contractor's damage prevention procedures and the Engineer's (or his designees, presence on-site does not free the Contractor from responsibility for over spray damage or any other damage associated with the completion of the specified work scope..

H. Thickness and Holiday Detection: Thickness of coatings and paint on steel surfaces shall be checked with a non-destructive, magnetic type dry film thickness gauge in accordance with SSPC PA 2. Instruments such as "Inspector" or "Positest" units for dry film thickness gauging are considered acceptable for this testing.

Concrete coatings shall be assessed by wet film thickness verifications in conjunction with coating solids by volume calculations. An instrument such as a Tooke Gauge should be used if a destructive tester is deemed necessary. The Engineer may require destructive testing and repairs are the responsibility of the Contractor.

Coating integrity of all interior coated surfaces shall be tested with an approved inspection device and in accordance with NACE RPO 188 and AWWA D.102-06 requirements. All pinholes shall be marked, repaired in accordance with the manufacturer's printed recommendations and retested. Acceptable devices for steel surfaces include, but are not limited to Tinker-Razor Models AP and AP-W holiday detectors.

I. Warranty Inspection: Warranty inspection shall be conducted eleven months following completion of all coating and painting work using the following provisions and in accordance with AWWA D.102 recommendations:

1. Notification: The Owner shall establish the date for the Inspection and shall notify the Prime Contractor at least 30 days in advance.

2. Inspection: The entire interior coating system shall be visually inspected by the Engineer (or his designee, and the Prime Contractor with the tank drained. Expenses related to the draining of the tank shall be the responsibility of the tank Owner.
3. Inspection Report: The Engineer shall prepare and deliver to the Contractor an inspection report covering the first anniversary inspection, setting forth the number and type of failures observed; the percentage of the surface area where failure has occurred, and the names of the persons making the inspections.
4. Schedule: Upon completion of inspection and receipt of Inspection Report as noted herein, the Engineer shall establish a date for the Prime Contractor and/or Subcontractor to proceed with remedial work. Any delay on part of either Contractor to meet schedule established by the Engineer shall constitute breach of this contract and the Owner may proceed to have defects remedied as outlined under General Provisions.
5. Remedial Work: Any location where coating or paint has peeled, bubbled, or cracked and any location where rusting is evident shall be considered to be a failure of the system. The Subcontractor shall make repairs at all points where failures are observed by removing the deteriorated coating or paint, cleaning the surface, and recoating or repainting with the system. If the area of failure exceeds 25% of a specific coated or painted surface, the entire coating or paint system may be required to be removed and recoated or repainted in accordance with the original specification and AWWA D.102-10 recommendations.
6. Costs: All costs for the Contractor's warrantee inspection and all costs for repairs required as a result of this inspection shall be borne by the Contractor. Re-disinfection of the tank upon completion of the repair procedures is the responsibility of the Contractor.

1.10 SAFETY AND HEALTH REQUIREMENTS

- A. The potential presence of heavy metals in the existing exterior coating system and the inevitable disturbance of these coatings will require the Contractor's strict compliance with OSHA 29CFR 1926.62 worker protection regulations.

The potential health concerns will require 100% containment of all generated debris in accordance with SSPC Guide 6. The disturbance of existing coatings as a result of exterior spot repair can be performed using power tools. These power tools must be designed to accomplish full containment and shall employ HEPA filtered vacuum attachments. On-site handling and temporary storage of hazardous debris shall be performed in accordance with SSPC Guide 7 and approved by the Engineer.

- B. Access Facilities: All ladders, scaffolding and rigging shall be designed for their intended uses. Ladders and scaffolding shall be erected where requested by the Engineer to facilitate inspection and be moved by the Contractor to locations requested by the Engineer.

- C. Ventilation: Where ventilation is used to control hazardous exposure within the tank, all equipment shall be explosion-proof or industrial design and shall be approved by the Engineer. Ventilation shall reduce the concentration of air contaminants to the degree a hazard does not exist by ducting air, vapors, etc. from the confined space. Air circulation and exhausting of solvent vapors shall be continued until coatings have fully cured. Forced air induction during blast cleaning and coating application operations is mandatory. If dehumidification equipment is used, equipment must be operated on a continuing basis during all blasting, coating and curing operations, including shifts during which no work is being accomplished.

1. Ventilation system shall be furnished and installed by the Contractor. The Contractor shall make modifications to the ventilation system as required to ensure a safe working environment and proper removal of all solvent vapors. Upon completion of the final curing period, as determined by the Manufacturer, the Contractor shall remove the ventilation system.

- a. The exhaust blower capacity shall be sufficient to maintain air changes within tank interior in accordance with OSHA and coating manufacturer's recommendations.

- D. Head and Face Protection and Respiratory Devices: Equipment shall include protective helmets which shall be worn by all persons while in the vicinity of the work. During abrasive blasting operations, nozzle men shall wear U.S. Bureau of Mines approved air-supplied helmets and all other persons who are exposed to blasting dust shall wear approved filter-type respiratory and safety goggles. When coatings are applied in confined areas all persons exposed to toxic vapors shall wear approved air-supplied masks. Barrier creams shall be used on any exposed areas of skin.
- E. Grounding: Blasting, spray and air hoses shall be grounded to prevent accumulation of charges of static electricity.
- F. Illumination: Spark-proof artificial lighting shall be provided for all work in confined spaces. Light bulbs shall be guarded to prevent breakage. Lighting fixtures and flexible cords shall comply with the requirements of NFPA 70 "National Electric Code" for the atmosphere in which they will be used. Whenever required by the Engineer, the Contractor shall provide additional illumination and necessary supports to cover all areas to be inspected. The level of illumination for inspection purposes shall be determined by the Engineer.
- G. Toxicity and Explosiveness: The solvents used with specified protective coatings are explosive at low concentrations and are highly toxic. Because of toxicity, the maximum allowable concentration of vapor shall be kept below the maximum safe concentration for eight-hour exposure, plus Lower Explosive Limit must be strictly adhered to. All regulations related to safety personnel and handling of such materials shall be strictly adhered to.
- H. Protective Clothing: Coating and paint materials may be irritating to the skin and eyes. When handling and mixing coatings and paints, workmen shall wear gloves, eye shields and any other protective equipment deemed necessary.
- I. Fire: During mixing and application of coatings and paints, all flames, welding and smoking shall be prohibited in the vicinity. Appropriate type fire extinguishers shall be provided by the Contractor and kept at the jobsite during all operations.
- J. Sound Levels: Whenever the occupational noise exposure exceeds the maximum allowable sound levels, the Contractor shall provide and require the use of approved ear protective devices.

1. General sound levels for project shall be those which will not affect routine facility or neighborhood activities. Whenever levels are objectionable, they shall be adjusted as directed by the Engineer.

PART 2 - COATING, PAINT & DISINFECTION MATERIALS

2.01 GENERAL

A. Materials specified are those which have been evaluated for the specific service. Products of Sherwin Williams are listed to establish a standard of quality. Standard products other than the specified will be accepted when it is proved to the satisfaction of the Engineer they are equal in composition, durability, usefulness, and convenience for the purpose intended. Substitutions will be considered, provided the following minimum conditions are met:

1. The proposed coating or paint system shall have a dry film thickness equal to or greater than that of the specified system.
2. The proposed coating or paint system shall employ an equal or greater number of separate coats.
3. The proposed coating or paint system shall employ coatings or paints of the same generic type.
4. All requests for substitution shall carry full descriptive literature and directions for application, along with complete information on generic type, non-volatile content by volume and a list of 10 similar projects, all at least three years old, where the coatings or paints have been applied to similar exposure.
5. If the above mentioned data appears to be in order, the Engineer may require that the Contractor provide certified laboratory data sheets showing the results of complete spectrographic and durability tests accomplished on the proposed substitute. Test shall be accomplished by an independent testing laboratory satisfactory to the Engineer and all costs incurred in the testing program shall be borne by the Contractor.

In any case, the Engineer shall be sole and final judge of the acceptability of any proposed substitution. Requests for substitutions must be approved in writing prior to date of bid.

B. All materials shall be brought to the jobsite in the original sealed containers. Materials' exceeding the manufacturer's recommended storage life shall be rejected.

- C. Flammability, toxicity, allergenic properties, and any other characteristic requiring field precautions shall be identified and specific safety practices shall be stipulated.
- D. All coating and paint shall be stored in enclosed structures to protect them from weather and maintain interior temperatures between 40 degrees and 110 degrees F or as required by the manufacturer. Flammable coatings and paints must be stored in conformance with City, County, State, and Federal safety codes. .
- E. Contractor shall use products of same manufacturer for all coats and shall group materials by batch number and use the same batch numbered coatings for individual applications.

2.02 INTERIOR COATING MATERIALS

- A. Coating materials for interior surfaces of the tank and accessories shall conform to regulations and applicable requirements of local, State and Federal air pollution and health regulatory agencies including the VOC limitations requirements of ADEQ. Products containing perchloroethylene, lead, chromium or zinc will not be permitted.
 - 1. Interior coatings will consist of a two component epoxy system, with immersion resistance and NSF-61 approval. The following coatings are considered to be an approved epoxy coating.

SHERWIN WILLIAMS Macropoxy 646 PW

DEVO 234 P Epoxy

2.03 EXTERIOR PAINT MATERIALS

- A. Exterior steel surfaces that have been properly prepared to bare metal shall receive one coat of a primer and shall conform to the regulations and applicable requirements of local, State and Federal air pollution regulatory agencies. The following coating is considered to be approved prime coats.
 - SHERWIN WILLIAMS Pro-Cryl Epoxy Primer
 - DEVO 233 Epoxy
- B. Topcoat materials for all exterior surfaces shall be semi-gloss polyurethane and shall conform to the regulations and applicable requirements of local, state, and federal pollution regulatory agencies. The following coating is considered to be approved polyurethane topcoats.
 - SHERWIN WILLIAMS Hi-Solids Polyurethane Semi-Gloss Top Coat

2.04 DISINFECTION MATERIALS

- A. Disinfection materials shall conform to all requirements of AWWA Standard C652-86.
 - 1. Spray Method #2 utilizing chlorinated water at 200 ppm is the preferred method of disinfection. Other methods recommended in the AWWA C652 Standard may be considered for use if a written request is submitted to the Engineer for approval.
- B. Chlorine used in the disinfection process shall be NSF 61 approved and shall be approved by the Engineer prior to use.

PART 3 - EXECUTION

3.01 GENERAL

- A. All surface preparation, coating, and paint application shall conform to applicable standards of the Society of Protective Coatings, NACE International, American Water Works Association, ADEQ and the manufacturer's printed instructions.
- B. All work shall be accomplished by skilled craftsmen qualified to accomplish the required work in a manner comparable with the best standards of practice. Continuity of personnel shall be maintained and transfers of key personnel shall be coordinated with and must be approved by the Engineer.
- C. The Contractor shall maintain the same previously approved foreman/supervisor to be at the work site during all cleaning, application and disinfection operations. The supervisor shall have the authority to coordinate work and make other decisions pertaining to the fulfillment of their contract.
- D. Contractor shall provide approved sanitary facilities for all Contractor personnel as no existing facilities will be available to the Contractor. Facilities shall be maintained during the project to complete standards established by Owner, and shall be removed prior to Contractor's departure from the site at completion of the project.
- E. Adherent dust, dirt, oil, grease or any foreign matter which will affect the adhesion or durability of the finished surface must be removed by washing with clean rags dipped in a VOC approved commercial cleaning solvent, rinsed with clean water and wiped dry with clean rags.
- F. The Contractor's coating and painting equipment shall be designed for application of materials specified and shall be maintained in first class working condition. Compressors

shall have suitable traps and filters to remove water and oils from the air. Contractor's equipment shall be subject to approval by the Engineer.

1. Cleanliness of compressed air supply shall be verified daily, and as deemed necessary by Engineer, by directing a stream of air, without abrasive, from the blast nozzle onto a white blotter or cloth for twenty seconds. If oil or water appears on the blotter or cloth, all traps and separators shall be blown down until subsequent twenty-second tests show no further oil or water.
- G. Application of the first coat shall follow immediately after completion of final surface preparation and dust removal operations.
- H. Because of the presence of moisture and possible contaminants in the atmosphere, care shall be taken to ensure previously coated or painted surfaces are protected or re-cleaned prior to application of subsequent coat(s). Methods of protection and re-cleaning shall be approved by the Engineer.
1. Project is subject to intermittent shutdown if, in the opinion of the Engineer, any operations are creating a condition detrimental to the site personnel or adjacent property. In the event of emergency shutdown by the Engineer, Contractor shall immediately correct
- I. The Contractor shall provide, at his own expense, all necessary power for his operations under the contract.

3.02 SURFACE PREPARATION, GENERAL

- A. The latest revision of the following surface preparation specifications of the Society of Protective Coatings shall form a part of this specification.
1. Solvent Cleaning (SSPC-SP1.: Removal of oil, grease, soil and other contaminants by use of solvents, emulsions, cleaning compounds, steam cleaning or similar materials and methods, which involve a solvent or cleaning action.
 2. Power Tool Cleaning (SSPC-SP3.: Removal of loose rust, loose mill scale and other detrimental foreign matter present to degree specified by power wire brushing, power impact tools or power sanders.
 3. Commercial Blast Cleaning (SSPC-SP6.: Blast cleaning until at least two-thirds of each element of surface area is free of all visible residue.

4. Brush-off Blast Cleaning (SSPC-SP7.: Blast cleaning to remove loose rust, loose mill scale, and other detrimental foreign matter present to the degree specified.
 5. Near-White Blast Cleaning (SSPC-SP10.: Blast cleaning to near-white metal cleanliness, until at least ninety-five% of each element of surface area is free of all visible residues.
 6. Power Tool Cleaning to Bare Metal (SSPC-SP11.: Power tool cleaning to produce a bare metal surface and to retain or produce a surface profile of at least one mil.
- B. Abrasive blasting nozzles shall be equipped with “deadman” emergency shut-off nozzles. Blast nozzle pressure shall be a minimum of 95 P.S.I. and shall be verified by using an approved nozzle pressure gauge at each start-up period or as directed by the Engineer. Number of nozzles used during all blast cleaning operations must be sufficient to ensure timely completion of project.
 - C. All blast hose connections shall be taped with duct tape prior to pressurizing. All taped connections shall be visually inspected for leaks within five minutes after start of blast cleaning operations and at the end of blast cleaning operations. Leaking connections shall be immediately repaired.
 - D. Interior blast cleaning shall be by dry method unless otherwise directed.
 - E. Particle size of abrasives used in blast cleaning shall be that which will produce a 1.5 to 2.0 mil surface profile, or as recommended of the manufacturer of the specified coating or paint system to be applied, subject to approval of the Engineer.
 - F. Abrasive used in blast cleaning operations shall be new, washed, graded and free of contaminants which would interfere with adhesion of coatings and paints and shall not be reused unless specifically approved by the Engineer.
 - G. Blast cleaning from scaffolds shall only be accomplished within confines of interior perimeter of scaffold. Reaching beyond limits of perimeter will be allowed only if blast nozzle is maintained in a position which will produce a profile acceptable to the Engineer.
 - H. The Contractor shall keep the area of his work in a clean condition and shall not permit blasting materials to accumulate as to constitute a nuisance or hazard to the workers or the existing facilities. Spent abrasives and other debris shall be removed at the Contractor’s expense, as directed by the Engineer.

- I. Blast cleaned and coated/painted interior surfaces shall be cleaned prior to application of specified coatings or paints via a combination of blowing with clean dry air, brushing/brooming and/or vacuuming as necessary to achieve a clean surface condition. Air hose for blowing shall be at least 1/2” in diameter and shall be equipped with a shut-off device.
- J. Prior to initiating the interior abrasive blasting operation, all sludge, silt and debris shall be removed from the interior of the tank. This debris shall be removed from the tank, transported and appropriately disposed at the Contractors expense. Disposal location shall be approved by the Engineer. Disposal verification shall subsequently be provided.
- K. Exterior surfaces (previously coated steel surfaces. shall be initially cleaned by a pressurized water wash-down procedure followed by spot cleaning of rusted areas in accordance with SSPC SP 3 requirements. The intent of the pressurized water wash-down is to remove all chalking and surface debris while insuring that the remaining coatings are sufficiently adherent to resist delamination during this procedure. If there proves to be hazardous constituency in the existing coatings, 100% of all debris generated during the wash-down and spot repair operations must be contained within an appropriately designed temporary containment structure. All onsite handling, storage and off-site disposal must be performed in accordance with SSPC Guide 7 recommendations and all regulatory requirements.
- L. In the event that exterior surface preparation is performed while the tank is in service, the Contractor is responsible for insuring that residual water, dust, debris or any other by-product of the exterior surface preparation operation does not enter the tank. The Contractor shall seal all entry points such as hatches and vents but shall not compromise the designed ventilation capabilities of the tank. The Engineer reserves the right to put the tank back into service immediately upon completion of interior coating and curing. All costs related to sealing and protecting the tank interior as referenced above are the responsibility of the Contractor.

3.03 APPLICATION, GENERAL

- A. Coating and paint application shall conform to the requirements of the SSPC Paint Application Specification SSPC-PA1, latest revision, for “Shop, Field and Maintenance Painting”, the American Water Works Association, ADEQ and the manufacturer of the coating and paint materials printed literature and as specified herein.

- B. Thinning shall only be permitted as recommended by the manufacturer and approved by the Engineer, and shall not exceed limits set by applicable regulatory agencies.
 - 1. If Contractor applied any coatings which have been modified or thinned to such a degree as to cause them to exceed established VOC levels, Contractor shall be responsible for any fines, costs, remedies, or legal action and cost which may result.
- C. Each application of coating and paint shall be applied evenly, free of brush marks, sags, runs and no evidence of poor workmanship. Care should be exercised to avoid lapping on glass or hardware. Coating and paint shall be sharply cut to lines. Finished surfaces shall be free from defects or blemishes.
- D. Protective coverings or drop cloths shall be used to protect surfaces not intended to be coated/painted. Personnel entering tank or walking on the exterior roof shall take precautions to prevent damage or contamination of coated or painted surfaces. If required by Engineer, personnel shall wear soft soled shoes, or shoe coverings approved by Engineer. Surfaces from which such material cannot be removed satisfactorily shall be repainted or recoated as required to produce a finish satisfactory to the Engineer.
- E. All material shall be applied as specified herein.
- F. All interior tank irregular surfaces shall receive a brush coat of the specified product prior to or during application of the prime coat. Coatings shall be brushed in multiple directions to ensure penetration and coverage. These areas include, but are not limited to, welds, nuts, bolts, edges, ladder stringers and ladder rungs.
- G. Dehumidification and artificial heating/cooling is not a requirement of this project or this specification. The employment of such procedures shall be at the discretion of the Contractor. In the event that the Contractor chooses to implement these procedures, the Engineer will require submittals detailing the type of equipment to be used and the method of use. These submittals must include noise abatement procedures as required to completely eliminate any disturbance to the surrounding community. All costs associated with these procedures shall be borne by the Contractor and included in the base bid. Absolutely no extra charges for climate control will be approved by the Engineer.
- H. At the conclusion of each day's blast cleaning and coating operations, a 6" wide strip of blast cleaned substrate shall remain uncoated to facilitate locating point of origin for

successive day's blast cleaning operations. If dehumidification is employed or ambient conditions permit, this 6" strip shall remain at any point of material application.

- I. Epoxy primed interior surfaces exposed to excessive sunlight (hatch and vent locations. or an excessive time interval beyond manufacturer's recommended recoat cycle, shall be scarified by Brush-off Blast Cleaning (SSPC-SP7. or methods approved by Engineer, prior to application of additional coating or paint. Scarified coating shall have sufficient profile depth to assure a mechanical bond of subsequent coat.
- J. In the event that exterior coatings are applied while the tank is in service, the Contractor is responsible for insuring that the surface temperature remains 5 degrees above the dew point during application and initial curing. The cost of all resulting delays shall be borne by the Contractor.

3.04 SURFACE PREPARATION, SPECIFIC

- A. Interior tank, piping existing accessories and new accessories.
Blast cleanliness = SSPC-SP10
Blast profile = 1.5 mil minimum
Touch-up = SSPC-SP11
- B. Exterior previously coated steel surfaces.
Pressure wash all previously coated exterior surfaces at a minimum nozzle pressure of 3,500 psi.
Spot repair areas of defective coatings and corrosion in accordance with SSPC SP 3.
Transition areas at the edges of the coating repair areas and bare steel areas shall be smoothly feathered and well adherent.
- C. Exterior newly installed accessories.
Blast cleanliness = SSPC-SP6
Blast profile = 1.5 mils minimum
Touch-up = SSPC-SP11
Note 1: Surface preparation and primer application may be performed at an off-site location to minimize the disturbance to the site and the surrounding community. If the Contractor chooses to work off-site the location and scheduling of the work must be provided to the Engineer 2 weeks in advance of the start of work. In the event that the off-site location is outside the Town area or the scheduling of the work is not within

normal work hours as previously defined, the Contractor shall be responsible for all expenses associated with the Engineer's inspections.

Note 2: Contractor may employ fusion bonded polyester coatings in place of the above operations. All surface preparation requirements will remain unchanged but the entire polyester coating system (including finish coats. may be installed in the proposed shop. The polyester finish coat color must closely match the tank's finish coat color. Care must be exercised to minimize damage to finish coat during transportation and installation. This operation and finish color must be approved by the Engineer.

3.05 APPLICATION, SPECIFIC

- A. Interior tank surfaces, including underside of roof, shell, floor, roof structure, piping and all internal appurtenances shall be coated as follows:
 - 1. All surfaces shall, after completion of surface preparation receive 2 coats of specified epoxy coating. Coating thickness shall be 4 - 6 mils per coat totaling 8 – 12 mils. A stripe coat on all weld and irregular surfaces shall be applied prior to or immediately after the 1st full coat.
 - 2. Application of primer and topcoat shall be by airless spray. Stripe coat application shall be by brush.
 - 3. Color differentiated coatings shall be used for each coat to insure adequate coverage and facilitate Tooke Gage testing in the event of a dispute.
- B. Previously painted exterior steel surfaces including tank roof, shell, and all appurtenances shall be encapsulated as follows:
 - 1. All localized defect areas having been prepared in accordance with this specification shall receive one coat of an approved Sherwin Williams epoxy primer applied by airless spray, brush or roller to a dry film thickness of 2-4 mils.
 - 2. All exterior surfaces having been pressure washed and spot repaired in accordance with this specification shall receive one topcoat of an approved Sherwin Williams paint applied by airless spray, brush or roller to a dry film thickness of 3-6 mils per coat.
 - 3. Total thickness of the newly applied exterior paint shall be 3 – 10 mils DFT.

4. Topcoat color shall approximate the color currently in place. Color samples provided by the approved paint supplier shall be provided to the Engineer for review and approval prior to exterior work.
- C. Caulking installation shall be performed in the following areas using the previously specified caulking material. The caulking shall be installed after the paint systems have been applied. The caulking color shall be similar to the exterior topcoat color and installed in the following areas:
1. Interior interface joint between tank shell and roof plates.
- D. Newly installed accessories and appurtenances shall be coated as follows:
1. All surfaces shall, after completion of surface preparation, receive one coat of the specified Sherwin Williams epoxy primer achieving a dry film thickness of 3-6 mils or as specified by the paint manufacturer. Application shall be immediately upon completion of the surface preparation operation and can be performed by airless spray, brush or roller application and per manufacturer's instructions.
 2. Application of the topcoat shall be by airless spray, brush or roller. Dry film thicknesses shall be 3-6 mils per coat. Total system dry film thicknesses shall be 6-12 mils.
 3. In the event that the Contractor chooses to perform the surface preparation and prime coat application off-site or employs the fusion bonded polyester coating process, the Contractor will be required to repair any coating damage incurred while transporting the appurtenances back to the job site or installing the appurtenance in place. The intermediate and topcoat application shall not proceed until the primer repair and initial curing is complete. If more than 5% of the polyester finish coat is damaged the entire appurtenance shall be re-blasted and re-coated.
 4. The topcoat color of the appurtenance shall be the same as the exterior tank paint. No visually detectable variance will be permitted.

3.06 QUALITY CONTROL

- A. All plural component coatings and paints shall be mixed in exact proportions specified by the manufacturer. Care shall be exercised to ensure all material is removed from containers during mixing and metering operations.
- B. All paints & coatings shall be thoroughly mixed, using an approved slow-speed power mixer until all components are thoroughly combined and are of a smooth consistency. Paints & coatings shall not be applied beyond pot-life limits or recoat cycles specified by manufacturer.
- C. Thinners shall be added to paints & coatings only as required in accordance with manufacturer's printed literature. Quantities of thinner shall not exceed limits set by applicable regulatory agencies.
- D. Application shall be as directed by the manufacturer and approved by the Engineer. Drying time between coats shall be strictly observed as stated in manufacturer's printed instructions. Interior epoxy coats shall be color differentiated.
- E. Care should be exercised during interior tank spray operations to hold the spray nozzle perpendicular and sufficiently close to surfaces being coated to avoid excessive evaporation of volatile constituents and loss of material into the air or the bridging of cracks and crevices. Reaching beyond limits of scaffold perimeter will not be permitted. All overspray shall be removed as directed by the Engineer.
 - 1. All fugitive dust, debris and overspray generated during the interior tank surface preparation and coating application operations shall be confined within the tank or the containment structure. All venting through the roof vents must be controlled and 100% contained.
 - 2. Care should be exercised during exterior operations to achieve an irregularity free and aesthetically pleasing paint system. Runs, sags and drips will be required to be smoothed and over-coated.
 - 3. All fugitive dust, debris, water mist, roller spatter, dry spray and overspray generated during the exterior surface preparation and coating application operations shall be confined within the containment structure.

G. Upon completion of initial curing intervals, holiday detection shall be accomplished, using a Tinker-Razor M-1 or AP-W detector at a voltage setting prescribed by the Manufacturer and NACE RPO 188.

1. The Engineer shall be notified prior to any holiday detection testing.

3.07 FINAL CURING

A. Upon completion and acceptance of the interior epoxy coating system, the contractor shall furnish an approved exhaust fan or blower of sufficient capacity to ensure removal of solvent vapors during curing process. The fan or blower, after approval by Engineer, shall be installed and shall remain in continuous operation until coating is completely cured as determined by the manufacturer of the coating system.

Operation and maintenance of blower during curing operations shall be the responsibility of the Contractor. This responsibility includes verification of safe operation and re-fueling. The blower operation or verification process must not present a disturbance to the surrounding community.

3.08 DISINFECTION

A. Disinfecting of interior surfaces shall be accomplished in the presence of the Engineer in accordance with AWWA Standard C652, Section 4.2, Chlorination Method 2, as modified herein:

1. Disinfection shall be accomplished after protective coating has been applied to the interior surfaces and is totally cured.

2. Prior to disinfecting, the complete interior shall be cleaned by hosing with clean water. Residual water and contamination removed during washing process shall be flushed from reservoir. This operation shall be accomplished after completion of interior coatings work as directed by the Engineer. All water usage by the Contractor shall be metered. Meters will be provided by the Owner.

a. If required to remove dust, spent abrasive, or other surface contaminants, all surfaces shall be cleaned with an approved cleaner or detergent applied via high pressure or hot solution method. Cleaned surfaces shall then be rinsed with clean water. Residual water and contaminants shall be flushed from reservoir. To avoid any detrimental environmental impact

Contractor is responsible for either transporting the waste water off-site with proper disposal or testing the waste water to ensure compliance with State, Federal, & Local requirements prior to on-site disposal.

3. After completion of curing and cleaning process, as noted above, all interior surfaces shall be washed with a chlorine or chloramine solution having a content of 200 P.P.M. All chlorine or chloramine solutions used shall possess NSF 61 Certification. The residual chlorine/chloramine solution that accumulates on the bottom of the tank shall be retained in the tank and the filling process immediately initiated.

3.09 CLEANUP

- A. Upon completion of the work, all staging, scaffolding and containers shall be removed from the site in a manner approved by the Engineer. Coating spots upon adjacent surfaces shall be removed and the entire jobsite cleaned. All damage to surfaces resulting from the Contractors work shall be cleaned, repaired or refinished to the complete satisfaction of the engineer at no cost to the Owner.

3.10 OMISSIONS

- A. Care has been taken to delineate herein those surfaces to be coated and painted. However, if coating requirements have been inadvertently omitted from this section or any other section of the specification, it is intended that all metal surfaces, unless specifically exempted herein, shall receive a first class protective coating pursuant to these specifications.

PART 4 - UPGRADES

4.01 GENERAL

- A. Safety, security, sanitary, and structural assessments have been performed on the subject tank and specific modifications have been recommended. These modifications are required to achieve compliance with OSHA and ADEQ regulations along with applicable AWWA recommendations and shall be included in the contractor's base bid.

- B. It must be clearly understood that any modification to the tank or structure that requires disturbing the existing paint system will necessitate strict compliance with all regulatory criteria applicable to hazardous waste generation and disposal if necessary.
- C. All upgrades must be coated or painted in accordance with this specification. The topcoat color shall be identical to the surrounding color of the tank and structure.
- D. Fabrication and attachment procedures involving welding shall be performed in accordance with ANSI/AWWA D.100-11 Section 8 “Welding; Section 10 “Erection” and Section 11 “Inspection and Testing”. Welds should be made with E7018 electrodes or other low-hydrogen processes and should be free of burrs and undercuts. All welded joints shall be seal welded (not tack welded or spot welded..
- E. Specific design inquiries will be addressed at the pre-bid conference.

4.02 EXECUTION

- A. This portion of the specification identifies the specific modifications with the intent of requiring installation/modification of said appurtenances prior to the installation of the specified coating systems. The following list details the upgrades required per this specification:

1. Fabricate and Install a ladder gate in accordance with AWWA D. 100-11 standards. The ladder gate shall be configured to swing open on a hinge assembly. The ladder shall be designed to cover the section of the ladder below the cage and cage opening. Additionally the ladder will have a locking mechanism configured to allow the use of a standard key lock.

Remove and dispose of the existing top 8’ of the interior ladder assembly and install a carbon steel interior ladder that complies with OSHA 29 CFR 1910 requirements. The ladder shall be attached to the interior side shell of the tank in accordance with AWWA D.100-11 Section 5.4 recommendations and properly isolated from the carbon steel tank shell to eliminate dissimilar metal corrosion.

2. Fabricate and Install new carbon steel rafters and gussets that comply with the version of the AWWA D.100 that was in effect when the tank was built. The new rafters should be of a similar design and style as the existing rafters. The firm

shall employ compliant means of replacing rafters to ensure a safe working environment.

3. Provide and Install new rafter connection bolts per the version of the AWWA D.100 that was in effect when the tank was built. Bolts should be the same type of steel as the gusset and rafters to prevent corrosion from dissimilar metals.

COST STRUCTURE

The Base Cost Structure applicable to this RFQP shall include two payments:

1. First payment will be due upon mobilization for 20% of the total project cost.
2. Final payment for the remaining 80% of the total project cost will be due upon completion and acceptance by the Town.

Absolutely no contract extras will be considered or granted as they apply to the base work scope or the optional work.

INSURANCE REQUIREMENTS

The intent of this RFQP is to identify qualified Firms possessing the full capabilities to rehabilitate the Town's 250,000 gallon potable water storage tank. Upon completion of this selection process, insurance certificates indemnifying the Town will be required to receive NTP. It is imperative that the Firm be adequately insured and fully capable to indemnify, hold harmless and defend the Town as a result of this transference of risk. Due to the diversity of service and the extent of risk associated with this project the Town's standard insurance coverage is required. The Firm must carry at a minimum the follow insurance limits:

- General Liability \$1,000,000 Each Occurrence
 - Including Pollution Claims
 - Damage To Rented Premises \$ 300,000 Each Occurrence
 - Medical Expenses \$ 10,000 Any one Person
 - Personal and Adv. Injury \$1,000,000
 - General Aggregate \$2,000,000
 - Products \$2,000,000
 - Automobile Liability \$1,000,000 Combined Single Limit
 - Excess Liability \$5,000,000 Each Occurrence
 - Workers Compensation \$1,000,000 Each Accident

SUBMITTAL CHECKLIST

ATTACHMENT A

This form must be completed in its entirety and returned with the response packet, failure to do so will result in immediate disqualification. The items should be organized and submitted in the order they are listed below. Check off each item below indicating that it has been included and completed. Any question not answered or box not checked will result in immediate disqualification.

- Mandatory Qualifications
- Firm must have an “A License” in good standing in the state where the project will take place.
(a) Enter License #: _____
 - If a California based Firm or the project is in the State of California the Firm must have an Ex-Mod rating of below 0.9. (attach letter of proof from insurance provider.
(a) Ex-Mod Rating: _____
- Submittal Checklist – Attachment A
- Firm attended the Mandatory Job Walk or meet the site visit criteria
- Evaluation Criteria provided
- Sample Insurance Certificate
- Ex-Mod letter from insurance Company (if a California based Firm or project is in California).
- Notarized Affidavit – Attachment B
- Technical Proposal
- Pricing Sheet – Attachment C
- Schedule of Work
- Product Data Sheets for the coatings that will be utilized during the renovation process
- Provide Firm’s safety plan applicable to the location and scope of work

**TOWN OF WELLTON
250,000 GALLON GST**

**AFFIDAVID BY CONTRACTOR
REGARDING RESPONSIBILITY AND COMPLIANCE**

ATTACHMENT B

All contractors must complete the following questions and have the document notarized. Failure to complete and return this document will result in disqualification. In the event you require more space an additional sheet may be used to complete the questions.

1. List your company's Arizona Contractors License number and class.

2. List which of the following your Firm qualifies for: MBE, SMBE or Small Business.

3. State the location of your corporate office.

4. List any documented, sited, or under investigation violations of federal or state labor laws, regulations, or standards, OSHA rules.

5. List any current lawsuits your company is involved in.

6. List any contracts that were cancelled by the customer in the last 3 years.

7. List at least 3 references in Arizona where similar work was performed; provide entity name, contact name, phone number, and brief scope (attached a separate sheet if needed..

1) _____

2) _____

3) _____

8. List any penalties imposed for time delays and/or quality of materials and workmanship.

9. By signing this affidavit the Firm acknowledges that this spec and RFQP are meant to represent a guideline or minimum required to perform the proposal tank renovation services. Should the Firm feel that more a stringent scope of work is necessary to complete the project correctly and safety they are encouraged to include this in their bid. The entity issuing this document bares no liability from incidents resulting during the referenced project.

10. In accordance with State Laws, the contractor will provide an eleven (11. month warranty inspection to correct any failures and defects in the work performed under this contract.

I, _____, as _____
Name of individual Title & Authority

of _____, declare under oath that the above statements, including any
Firm Name
supplemental responses attached hereto, are true.

Signature

State of _____
County of _____ §

Subscribed and sworn to before me on this _____ day of _____ 2012 by
_____ representing himself/herself to be _____
of the Firm named herein.

Notary Public

My Commission expires:

PRICING SHEET

ATTACHMENT C

This page must be completed and returned with the RFQP responses. All costs provided below are final and must adhere to the Technical Specification included under the “Work Scope” section of this RFQP. Any deviation will result in disqualification. NO Change Order will be approved or allowed on this project.

Item No.	Item Description	Quantity	Unit	Amount
1	Exterior Renovation	1	N/A	
2	Interior Renovation	1	N/A	
3	Exterior Ladder Upgrades	1	N/A	
4	Interior Ladder Repairs	1	N/A	
5	Replace Rafter Connection Bolts	All	N/A	
TOTAL – Including Taxes and Fees				

UNIT BASED WORK

6	Replace Rafters and Gussets	Cost per	Rafter	
TOTAL – Unit Based Work Including Taxes				

The undersigned Bidder certifies that this proposal is made in good faith, without collusion or connection with any other persons or persons bidding on the work.

Company: _____

Print Name: _____

License No. _____

Signature: _____

Date: _____

Title: _____