

1.4 SUBMITTALS

- A. Comply with requirements of Section 01330 – Submittal Procedures
- B. Manufacturer's technical data on all manufactured products including preparation, installation, application, finishing and curing procedures, and temperature limitations. Submit detailed surface preparation method and procedure complying with manufacturer's recommendations.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store all materials in cool, dry conditions in the original unopened bags or cans, and in strict accordance with manufacturer's directions. Do not use materials that have been stored for periods longer than the manufacturer's recommended shelf life.

1.6 QUALITY ASSURANCE

- A. Qualifications & Experience

The contractor shall be a specialist tank contractor experienced in the design, construction, and retrofit of precast wire-wound prestressed concrete tanks, with a minimum of ten (10) projects completed that met AWWA D110 Type III Standard, having retrofitted, in their own name, at least three (3) tanks in the last 5 years of equal size or greater, and shall have rehabilitated at least five (5) tanks with the specified coating material.

Tank contractor is responsible for the coordination, design, detailing, installation, and sealing of the penetration to ensure all work is performed with current standards.

Singular Responsibility: The concrete tank retrofit work shall be performed by skilled personnel employed directly by the tank contractor.

- B. Prequalification

DN Tanks, Wakefield, Massachusetts and PreLoad, LLC Louisville, Kentucky are prequalified as tank contractor for this project. Additional tank contractors seeking prequalification, shall submit a prequalification package in accordance with Section 1.6C to the ENGINEER for review and approval no later than seven (7) days prior to the date set for receipt of bid. Within five (5) days prior to the date of receiving bids, the engineer will publish a list of additional prequalified tank contractors.

- C. Qualification Standards

- 1. Tank contractors shall submit one copy of a qualification submittal along with the sealed bid package on the advertised bid date.

2. Project Experience – The tank contractors shall submit a complete record of their experience in the rehabilitation of circular concrete tanks with a minimum capacity of 5.0 MG. The record shall indicate the size of the tank, the name and address of the OWNER, the year of rehabilitation, and the name of the ENGINEER for each project.
 3. Company Personnel – Provide the names, project responsibilities, experience on similar projects and resumes for personnel responsible for the following:
 - Project Manager
 - Design Engineer
 - Site Superintendent
 - Quality Control Manager
 4. Construction Equipment, Materials and Methods – Provide the following:
 - Summary of all equipment to be used in the rehabilitation of the tank.
 - Construction schedule and plan including labor requirements and responsibilities, sequencing, materials and methods.
 - Quality control plan and procedures including testing, correcting deficiencies, systems and methods, schedule and responsibilities.
 - List all major suppliers and subcontractors who may work on this project.
 5. Financial Capacity – Provide the following:
 - References for bank and bonding company
 - Insurance Limits
 - Warranty Statement
 - Annual Reports and/or financial statements
 6. The contractor shall sign and date the information provided and certify that to the extent of the Contractor's knowledge, the information is true and accurate, and the design and construction supervisory personnel for the tank construction will be directly involved with and used on this project. Substitutions of personnel and/or methods will not be allowed without the written authorization of the Owner.
- D. Construction Submittals for Review Prior to Use:

1. Design proportions for all concrete and shotcrete and concrete strengths of trial mixes for all concrete.
2. Admixtures to be used in the concrete and their purpose.
3. Shop drawings shall be stamped by a Professional ENGINEER, experienced in the design and rehabilitation of circular concrete water tanks and registered in the State of Texas.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Patching material: Thorite by Thoro System Products, Speedcrete Redline, Tamms Patch II, Tamms Structural Mortar by Euclid Chemical Company or other approved equal.
- B. Waterborne Acrylic – Wall System
 1. The basecoat and topcoat shall be TAMMSCOAT as manufactured by Euclid Chemical Company, or approved equal.
- C. Penetrating Epoxy Primer – Roof System
 1. Penetrating Primer: Provide (2) component, low viscosity, water-emulsion, penetrating epoxy designed for use as a moisture mitigation treatment on concrete with the following characteristics:
 2. Product: Dural Aquatight WB by Euclid Chemical Co.
- D. Primer – Roof System
 1. Epoxy Primer: Provide 100% solids, two-component, penetrating epoxy primer manufactured by Urethane Deck Coating System manufacturer.
 - a. Mixed Viscosity of 300 to 400 cps
 - b. Tack Free Time of 3 to 4 hours @ 75 deg F.
 - c. Cure Time of 12 hours @ 75 deg F
 - d. VOC: <5 g/L
 2. Product: Dural Epoxy Primer by Euclid Chemical Co.
- E. Waterproof Membrane – Roof System
 1. Urethane Membrane: Provide (2) component, 100% solids, elastomeric urethane manufactured by Urethane Deck Coating System manufacturer.
 - a. Tensile Strength 1,200 psi @ 7 days per ASTM D 412
 - b. Tensile Elongation: 350% per ASTM D 412
 - c. Tear Resistance: 100 pli per ASTM D 1004