ADDENDUM No. 1

RFP No. 22-79

Water Tower Fall Protection Systems

Due: December 20, 2022 at 2:00 P.M. (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. This Addendum includes eighteen (18) pages.

The Proposer is to acknowledge receipt of this Addendum No. 1, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- Attachment C– City of Ann Arbor Non-Discrimination Declaration of Compliance
- Attachment E - City of Ann Arbor Living Wage Declaration of Compliance
- Attachment F - Conflict of Interest Disclosure Form of the RFP Document
- Attachment H – Prevailing Wage Declaration of Compliance

Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Additions:

Item 1: Section II – Scope of Services Pg. 10. “City’s Responsibilities” add:

4. City to provide plans/drawings for the Manchester and South Industrial water towers, that contain details for ladders, platforms, hatches, walkthroughs and site elevations. Note all measurements for these areas and the Plymouth Road water tower are to be field verified by the selected contractor.

Attachment A. Drawings for the City of Ann Arbor, Manchester Water Tower
Attachment B. Elevation Drawings for South Industrial Water Tower

Item 2: “Itemized Bid Form” delete table and replace with the table below:
<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
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<tbody>
<tr>
<td>Plymouth Road Water Tower</td>
<td><strong>Design, Materials and Installation of Fall Protection Systems</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Vertical Lifeline System for 3 ladders (see est. measurements example in Attachment C)</td>
<td>1. $__________</td>
</tr>
<tr>
<td></td>
<td>2. Anchorage points at each ladder landing</td>
<td>2. $__________</td>
</tr>
<tr>
<td></td>
<td>3. Add hand hold/anchorage point outside of exiting upper hatch</td>
<td>3. $__________</td>
</tr>
<tr>
<td></td>
<td>4. <strong>Contractor to install 6 rigid floor hole coverings (see example in Attachment C). All measurements to be field verified.</strong></td>
<td>Alternate 1. $__________</td>
</tr>
<tr>
<td></td>
<td><em>Alternate 1: Design, supply and install new aluminum hatch that meets the minimum requirements of MIOSHA (see example in Attachment C).</em></td>
<td></td>
</tr>
<tr>
<td>Manchester Water Tower</td>
<td><strong>Design, Materials and Installation of Fall Protection Systems</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Vertical Lifeline System for 3 ladders</td>
<td>1. $__________</td>
</tr>
<tr>
<td></td>
<td>2. Add anchorage points at each ladder landing</td>
<td>2. $__________</td>
</tr>
<tr>
<td></td>
<td>3. Add hand hold/anchorage point outside of upper hatch</td>
<td>3. $__________</td>
</tr>
<tr>
<td></td>
<td>4. Railing and swing gates where necessary on platforms</td>
<td>4. $__________</td>
</tr>
<tr>
<td></td>
<td>5. <strong>Contractor to install 2 rigid floor hole coverings (see example in Attachment C). All measurements to be field verified.</strong></td>
<td>5. $__________</td>
</tr>
<tr>
<td></td>
<td>6. Repair spalling concrete and verify ladder can support maximum intended load (see example in Attachment C).</td>
<td>6. $__________</td>
</tr>
<tr>
<td>South Industrial Water Tower</td>
<td><strong>Design, Materials and installation of LIFE Line System</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Add Ladder extension with security cover.</td>
<td>1. $__________</td>
</tr>
<tr>
<td></td>
<td>2. Integrate swing gate to existing guardrail</td>
<td>2. $__________</td>
</tr>
<tr>
<td></td>
<td>3. Install Vertical Lifeline System to ladder</td>
<td>3. $__________</td>
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</tbody>
</table>
Other (additional items proposed by vendor not identified in the scope)

<table>
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<th>Other Items</th>
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<th>2.</th>
<th>3.</th>
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<tbody>
<tr>
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<td>$_____</td>
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</tr>
</tbody>
</table>

II. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the RFP. Respondents are directed to take note in its review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

Question 1: Will the City provide finish/paint requirements and specs for each tower if welding/modification is required?
Answer 1: Yes. The paint or coating specifications and requirements are provided in Attachment D.

Question 2: Will the City provide welding specifications/requirements/procedures?
Answer 2: The City has provided specifications and requirements are provided in Attachment E. In addition, the selected contractor shall provide fall protection system design and specifications developed and overseen by a qualified and/or certified person.

Question 3: How many tie-off points are required at the top/roof of towers at Plymouth Road and Manchester?
Answer 3: Plymouth Road water tower requires two (2) tiedowns and Manchester requires one (1).

Question 4: Is the south industrial tower going to need a catwalk or platform added at the top of the ladder?
Answer 4: The City requests proposals for a comprehensive fall protection system that provides safe access to the ladder and serviceable components on top of the tower. This may be accomplished by multiple different means including a catwalk, integrated guardrails or a vertical lifeline. Please note, the contractor may propose more than one if desired.

Question 5: Is a security cover going to be required on the new ladder section as the tower is behind a locked fence?
Answer 5: Yes. The City would prefer to include an additional deterrent mechanism for ladder access.

Question 6: Can you confirm that a list of attendees, following the November 22nd pre-proposal meeting, will be published as an amendment?
Answer 6: The attendees to the November 22nd pre-proposal meeting are listed below:

Dean Cobb  MDTS
Dimitri Pervolarakis  Premier Safety
Joel Buck  Skyline Fall Protection
Dan Larmaan  Agile Safety

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

Addendum-1
Attachment A: Manchester Water Tower Drawings
Attachment B: South Industrial Water Tower Drawings
Attachment C: Pictures
Attachment D: Welding Specifications
Attachment E: Paint/Coating Specifications
Attachment A

Drawings for the City of Ann Arbor, Manchester Water Tower
### CITY OF ANN ARBOR, MICHIGAN

**MANCHESTER TANK MISCELLANEOUS IMPROVEMENTS AND TANK COATING PROJECT**

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#### SHEET INDEX

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<th>SHEET NO.</th>
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<tbody>
<tr>
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<tr>
<td>0-001</td>
<td>GENERAL NOTES AND LEGENDS</td>
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<tr>
<td>0-002</td>
<td>SITE PLAN</td>
</tr>
<tr>
<td>0-003</td>
<td>TANK ELEVATION PROPOSED IMPROVEMENTS</td>
</tr>
<tr>
<td>0-004</td>
<td>SITE DETAILS</td>
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<td>1-001</td>
<td>PIPE LEGEND</td>
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<td>1-011</td>
<td>TANK FLOOR PLAN - INTERIOR AND SITE</td>
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<td>PLATFORM AND HATCH DETAILS</td>
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</tr>
<tr>
<td>4-508</td>
<td>ELECTRICAL REMOVAL PLAN</td>
</tr>
</tbody>
</table>

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#### PROJECT LOCATION

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#### LOCATION MAP

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#### VICINITY MAP:

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#### PROJECT LOCATION MAP:

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#### LOCATION MAP

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#### SCALE: 1/"=200'"
NOTES:

1. ALL LOCATIONS AND DIMENSIONS OF EXISTING FEATURES SHOWN ON THE DRAWINGS ARE APPROXIMATE. FIELD VERIFY SITE CONDITIONS AND EXISTING FEATURES PRIOR TO COMMENCING WORK.

2. REPAIR AND GRADE EXISTING GRAVEL DRIVE. REPLACE MINIMUM OF 6" TOP COURSE WITH MDOT 23A MODIFIED LIMESTONE IN ACCORDANCE WITH MDOT STANDARD CONSTRUCTION SPECIFICATIONS.

3. PLACE ONE (1) PROJECT SIGN IN ACCORDANCE WITH DETAIL ON SHEET C-500.

4. PROTECT TREES AND TELECOMMUNICATION MONOPOLES IN ACCORDANCE WITH ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND DETAILS.

5. ADDITIONAL CABLES WILL BE RUN TO DTE PROPERTY DURING CONSTRUCTION AND ARE NOT CURRENTLY SHOWN.

ALL REFERENCE INFORMATION AND WORK SHOWN ON THIS SHEET SHALL BE CONSIDERED APPLICABLE TO BOTH CONTRACTS UNDER THE MANCHESTER TANK MISCELLANEOUS IMPROVEMENTS AND TANK COATING PROJECT, UNLESS NOTED OTHERWISE.
**MANCHESTER TANK MISC IMPROVEMENTS AND TANK COATING PROJECT**

**City of Ann Arbor, Michigan**

710 Avis Drive, Suite 100
Ann Arbor, MI 48106
Tel 734-665-6000, Fax 734-213-3003

**Tank Elevation - Proposed Improvements**

- **Existing Roof Handrail**
- **Access Tube**
- **Intermediate Platforms**
- **Mud Valve**
- **Sump Discharge Penetration**
- **Basebell Penetrations (Typ of 2)**
- **Flap Gate**
- **Overflow Pipe**
- **Access Door**
- **Hinges**
- **Insulation**
- **Mud Valve**
- **Flat Penetration (Typ of 2)**
- **TANK OVERFLOW ELEV = 1010.00**
- **Install Frost-Free Roof Vent and New Flange (Alternate No. 2)**
- **Install Sump Discharge Penetration**
- **Install Flap Gate**
- **Install Basebell Penetrations (Typ of 2)**
- **Install Access Tube**
- **Air Gap Seal**
- **Replace Access Tube Roof Hatch**
- **Replace Locking Mechanism**
- **Install Access Tube**
- **Install Mud Valve**
- **See Sheet D-502**
- **See Sheet D-500**
- **See Sheet D-501**
- **See Sheet D-500**
- **See Sheet D-501**

**Notes:**

1. The dry interior is to be repainted including the fill pipe, as part of contract No. 2.
2. All pit piping and valves are to be painted as part of contract No. 2.
3. The tank exterior is to be repainted as part of contract No. 2.
4. This drawing is for reference only. Orientation of items may vary.
5. See specification section 05 00 00 for details on improvements associated with both contracts of the Manchester tank miscellaneous improvements and tank coating project.
6. Work to be completed under the Manchester tank miscellaneous improvements and tank coating project - Contract No. 2, unless noted otherwise.
7. Work to be completed under the Manchester tank miscellaneous improvements and tank coating project - Contract No. 1.
WATER TOWER DEMOLITION PIPING PLAN
SCALE: 3/8"=1'

REMOVE EXISTING PIPE AND VALVES TO EXTENT SHOWN

A

D-102
SUMP

REMOVE SUMP PUMP DISCHARGE FROM OVERFLOW AND INSTALL PATCH PLATE IN ACCORDANCE WITH SPECIFICATION SECTION 05 00 00.

OVERFLOW CHANNEL SEE SHEET D-101

EXISTING CATCH BASIN

REMOVE CONCRETE PIPE SUPPORTS (BELOW)

REMOVE CONCRETE PIPE SUPPORTS (BELOW)

SECTION A
SCALE: 3/8"=1'

WORK TO BE COMPLETED UNDER CONTRACT NO. 2
REMOVE EXPANSION JOINT PER DETAIL ON SHEET D-500.

BOTTOM OF PIT
PIT UPPER LEVEL

REMOVE CONCRETE PIPE SUPPORTS (BELOW) BENEATH ALTITUDE VALVE

REMOVE RISER PIPE UP TO EXISTING EXPANSION JOINT.

REUSE EXISTING CONCRETE PIPE SUPPORT, GROUT NEW FITTING AS NECESSARY

N

ALL WORK TO BE COMPLETED UNDER CONTRACT NO. 1, UNLESS NOTED OTHERWISE

WORK TO BE COMPLETED UNDER CONTRACT NO. 2

3/01/17
ISSUED FOR BIDS

CONFORMING TO CONSTRUCTION 1
A. **STRUCTURAL GENERAL NOTES**

1. THESE GENERAL NOTES PROVIDE REVISED INFORMATION FOR THE DRAWINGS PREVIOUSLY CONCEIVED. THEY ALSO INDICATE ADDITIONAL NOTES AND PROJECT SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

2. ABBREVIATIONS

   - DET: DETAIL
   - CTR: CENTER
   - CJ: CONTROL JOINT
   - C/C: CENTER TO CENTER

D. **STRUCTURAL PERFORMANCE:** DESIGN, ENGINEER, FABRICATE, AND INSTALL THE FOLLOWING METAL

   - **ADD'L:** ADDITIONAL

G. **ABBREVIATIONS**

   - AP-2: ADDITIONAL

2. **STATE BUILDING CODE: MICHIGAN BUILDING CODE**

   - **RISK CATEGORY III:** IN ACCORDANCE WITH TABLE 1604.5

3. **ASCE/SEI 7-10 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES**

   - **ELEVATIONS SHOWN ON DRAWINGS ARE REFERENCED TO THIS DATUM UNLESS NOTED.**

   - **INCLUDES THE ADDITION OF SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE WORK.**

   - **IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS COMPLETED.**

   - **IMPORTANT TO THIS SHEET FOR GENERAL, STRUCTURAL NOTES.**

   - **SUMMARY:** ALL EXISTING DIMENSIONS SHOWN WITH THE ± SYMBOL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION. REFER TO THIS SHEET FOR GENERAL STRUCTURAL NOTES.

   - **REFER TO THIS SHEET FOR GENERAL STRUCTURAL NOTES.**

   - **IMPORTANT TO THIS SHEET FOR GENERAL, STRUCTURAL NOTES.**

   - **AP-1:** PROVIDE OWENS CORNING FOAMULAR R-VALUE OF 5.0 PER INCH, MINIMUM COMPRESSIVE STRENGTH OF 25PSI, AND RECOMMENDED ADHESIVE AND METHODS. THE INSULATION SHALL BE MINIMUM THICKNESS MINIMUM PRIOR TO CASTING CONCRETE.

   - **AP-2:** PROVIDE CONCRETE WALLS AND OTHER STRUCTURES PER PLANK (COORDINATE LOCATION w/ ALUMINUM FRAMING. 1/4" S.S. BOLTS SHALL BE WELD NUT @ PLANK LUG LOCATIONS.

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   - **AP-2:** PROVIDE CONCRETE WALLS AND OTHER STRUCTURES...
Attachment B. Elevation Drawings for South Industrial Water Tower
TANK ELEVATION - PROPOSED IMPROVEMENTS

SCALE: N/S

NOTES:
1. DRAWING IS FOR REFERENCE ONLY. ORIENTATION OF ITEMS MAY VARY.
2. EXTERIOR OVERCOAT (ALTERNATE) APPLIES TO ALL EXTERIOR SURFACES
Attachment C

Reference Pictures

Openings Field verify dimensions – picture 1

Openings Field verify dimensions – picture 2

North Campus hatch to be replace with an aluminum hatch to match Manchester tank’s hatch – picture 3
GENERAL PAINTING INSTRUCTIONS:

1. SHOP PAINTING: ABRASIVE BLAST CLEAN ALL NEW STEEL TO COMMERCIAL GRADE (SSPC-SP6) CONDITION AND APPLY A THREE COAT EPOXY/URETHANE SYSTEM AS FOLLOWS:

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<th>MAXIMUM DFT</th>
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<td>27</td>
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<tr>
<td>TOP COAT*</td>
<td>1074</td>
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2. EDGES TO BE WELDED IN THE FIELD SHALL NOT BE COATED (LEAVE A MINIMUM OF TWO INCHES BARE METAL.)

3. FIELD PAINTING: EXTERIOR-SOLVENT CLEAN, SPOT POWER TOOL CLEAN ALL ABRADED AND WELDED AREAS TO A SSPC-SP11 GRAY METAL CONDITION AND SPOT COAT IN ACCORDANCE WITH COATINGS AS SPECIFIED ABOVE. DRY INTERIOR-SPOT POWER TOOL CLEAN ALL AREAS OF BURNED COATING TO A SSPC-SP11 GRAY METAL CONDITION AND APPLY A TWO COAT EPOXY POLYAMIDE SYSTEM AS FOLLOWS:

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<tr>
<td>TOP COAT*</td>
<td>FC20</td>
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<td>5.0</td>
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4. PREPARATION OF GALVANIZED MATERIAL: APPLY ONE COAT OF CLEAN 'N' ETCH AS PER MANUFACTURER'S RECOMMENDATIONS AND COAT IN ACCORDANCE WITH COATINGS AS SPECIFIED BELOW:

<table>
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<tr>
<td>PRIMER</td>
<td>66 HI-BUILD EPOXOLINE</td>
<td>2.0</td>
<td>3.0</td>
</tr>
<tr>
<td>TOP COAT*</td>
<td>1074 ENDURA-SHIELD</td>
<td>2.0</td>
<td>3.0</td>
</tr>
</tbody>
</table>

5. APPLY ALL COATINGS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. APPLY ALL COATINGS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

*TOP COAT COLOR TO MATCH EXISTING COLOR.
GENERAL WELDING:

1. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER.

2. COMPLY WITH THE AWS D1.1 STRUCTURAL WELDING CODE, ANSI/AWWA D100-96 (LATEST EDITION THEREOF), "AWWA STANDARD FOR WELDED STEEL TANKS FOR WATER STORAGE" AND FEDERAL, STATE, AND LOCAL CODES, DURING CONSTRUCTION DESIGN AND FABRICATION.

3. MAKE ALL WELDS TO THE TANK WALL WITH E7018 LOW HYDROGEN ROD. WELD SMOOTH AND AVOID UNDERCUTS AND BURRS. GRIND SMOOTH ALL WELDS SO THAT NO SHARP PROTRUSIONS REMAIN. SMOOTH IS DEFINED AS: "NO CUTS OR ABRASIONS OCCUR WHEN RUBBING YOUR HAND OVER THE WELD."

4. BEFORE WELDING, REMOVE ALL COATINGS WITHIN 6" OF THE AREA TO BE WELDED. BEFORE WELDING, REMOVE ALL COATINGS WITHIN 6" OF THE AREA TO BE WELDED.

5. USE ASTM A-36 CARBON STEEL FOR ALL STRUCTURAL STEEL; USE A-307 BOLTS UNLESS OTHERWISE SPECIFIED. 6. FIELD FIT UP PROBLEMS OR CHANGES TO THE PLAN SHEETS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.