

**ADDENDUM NO. 3**  
**October 3, 2023**

**PROJECT: CITY OF ROPESVILLE**  
**DWSRF WATER TREATMENT PLANT**

**BID DATE: October 13, 2023**

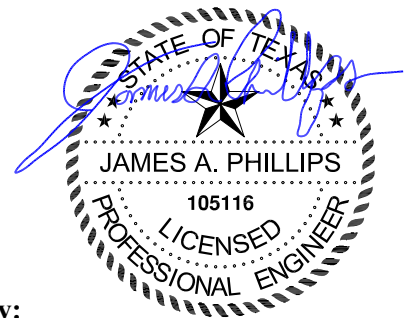
The following changes and/or additions shall be made to the Plans, Specifications, and Contract Documents for the above referenced project. Bidder shall acknowledge receipt of this Addendum by signing below and returning this Addendum with the Bid.

**1) General**

- a) All materials that have direct contact with water shall be NSF 61.
- b) Hydrochloric Acid (35%) shall be utilized instead of Sulfuric Acid. See TCEQ plan approval letter in Addendum 1.
- c) All chemical tanks shall comply with 30 TAC 290.42(f).
- d) Treatment skid shall be able to treat water from Wells 1, 2 & 3.

**2) Specifications**

There was a printing error in the Specifications. Please replace the second page of the Specifications Table of Contents, pages 01 02 01 – 11 & 14, and pages 33 01 01 – 165 & 166 with the attached pages.



**Prepared by:**

**10/03/2023**

**JACOB | MARTIN**  
**TBPE Firm No. 2448**

\_\_\_\_\_  
**Bidder's Acknowledgment**

\_\_\_\_\_  
**Date**

**Division 46 – REVERSE OSMOSIS**

**46 01 01                    PACKAGED REVERSE OSMOSIS TREATMENT SYSTEM**

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- C. No extra payment will be made for gravel or asphalt repair.

#### **1.26 TEXAS DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY**

- A. The OWNER has received, and will make available to the CONTRACTOR, permits authorizing construction work on the State Highway Department right-of-way. The CONTRACTOR shall perform all construction operations and clean up in accordance to the permit issued by the Texas State Department of Highways, and under the supervision of the representative of the Department of Highways, as well as in accordance with the Technical Specification of this contract as directed by the ENGINEER. All highway crossings or paralleling in highway right-of-way shall have right-of-way markers installed at the entrance and exit points and a detectable metal wire or tape shall be installed in the pipeline ditch while in the highway right-of-way.
- B. It shall be the responsibility of the CONTRACTOR to notify the proper highway official 48 hours prior to any construction activity on highway right-of-way. The CONTRACTOR shall have a copy of the appropriate permits on site at all times.

#### **1.27 CONSTRUCTION ON COUNTY OR CITY RIGHT-OF-WAY**

- A. The OWNER has received authorization from the County authorizing pipeline construction in County road right-of-way in the locations indicated on the Plans. It shall be the CONTRACTOR'S entire responsibility to notify the appropriate Precinct Commissioner 48 hours prior to any construction work on County right-of-way, and conduct construction operations in full cooperation with Precinct Commissioner.
- B. Where necessary to cross a county road or install pipeline within the County road riding surface, all ditch backfilling shall be as noted or required per County Precinct Commissioner, base material replaced as directed by the Precinct Commissioner, and the road left in a condition equal to that prior to crossing. In areas where pavements exists or where new construction is being proposed, and the County Commissioner requires the crossing to be bored, the CONTRACTOR shall bore and encase the pipeline in the same manner required by the Texas Highway Department for highway crossings and payment will be made at the unit price bid for Bore and Encasement as set out in the Bid Schedule. All paved county roads shall be bored. No paved county road shall be open cut unless written approval is obtained from the appropriate Precinct Commissioner.
- C. All County road crossings or paralleling in County right-of-way shall have right-of-way markers installed at the entrance and exit points and a detectable metal tape shall be installed in the pipeline ditch while in the County right-of-way.
- D. **No extra payment shall be made for special backfill in county roads and no extra payment shall be made for any gravel or asphalt repair. All paved driveways and approaches shall be slick bored for no extra pay as noted on the Plans.**

#### **1.28 WATER LINE PARALLELING OR CROSSING SEWER LINES**

- A. The Contractor shall fully comply with all Texas Commission on Environmental Quality regulations pertaining to separation distances as described in Table I of this section. No additional payment shall be made for separation distance compliance, but this work shall be considered subsidiary to the overall project.
- B. Location of waterlines. The following rules apply to installations of waterlines, wastewater mains or laterals, and other conveyances/appurtenances identified as potential sources of contamination. Furthermore, all ratings specified shall be defined by ASTM or AWWA standards unless stated otherwise. New mains, service lines, or laterals are those that are installed where no main, service line, or lateral previously existed, or where existing mains, service lines, or laterals are replaced with pipes of different size or material.

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- H. Proximity of septic tank drainfields. Waterlines shall not be installed closer than ten feet to septic tank drainfields.

#### **1.29 TRENCH SETTLEMENT**

- A. The CONTRACTOR shall be responsible for all settlement of backfill, fills, and embankments which may occur within one (1) year after final completion of the contract under which the work was performed.
- B. The CONTRACTOR shall make, or cause to be made, all repairs or replacements made necessary by settlement, within thirty (30) days after notice from the ENGINEER or OWNER.

#### **1.30 RESTORATION OF SURFACES**

- A. The CONTRACTOR shall replace all surface material (including topsoil in original thickness), and shall restore gravel drives and roadways, fencing, sod and other surfaces disturbed, to a condition equal to that before the work began, furnishing all labor and material incidental thereto.

#### **1.31 SURPLUS EARTH**

- A. Surplus excavated materials from all trenching, manholes, and structures shall be disposed of by the CONTRACTOR as approved by the OWNER and ENGINEER.

#### **1.32 CONCRETE BLOCKING**

- A. All bends, tees, etc., 2" and larger shall be blocked with concrete per the Plans and Specifications with a minimum soil bearing surface of 1.0 square foot per inch diameter of pipe. The use of rocks, masonry blocks, etc. is not acceptable. Only "Sacrete" which has been thoroughly mixed or Class B concrete shall be used for blocking. No blocking shall be covered up until it has been inspected and approved by the OWNER and/or ENGINEER. If covered prior to inspection, the CONTRACTOR shall uncover the blocking for inspection at his expense.

#### **1.33 FENCES AND SIGNS**

- A. When necessary for the CONTRACTOR to take down signs, fences or other obstructions, this shall be done at his own expense and replaced in the original condition after construction operations. Fences which are taken loose by the Contractor shall be done in a manner to prevent slacking of the remainder of the wire. The CONTRACTOR, prior to taking down any fence shall have complete approval of the Project Representative as to the width of the fence gap to be made and the manner in which existing posts are to be placed. **No fences shall be cut without authorization in writing from OWNER or ENGINEER.**

#### **1.34 BARRICADES, WARNING SIGNS AND PUBLIC CONVENIENCE**

- A. The convenience of access of the adjoining property OWNERS on the streets herein scheduled for improvements is of prime importance in the construction operations. In certain locations it may be necessary that property OWNERS use a portion of the roadway being improved to access their property. In such cases, the CONTRACTOR shall schedule his operations to provide such access to the property OWNERS in a safe and convenient manner. The CONTRACTOR shall provide courteous, English speaking and well informed flagmen for directing traffic. Flagmen shall wear a bright red coat and shall use a bright red flag to signal traffic.
- B. At each section of street and each cross street intersecting the section of street under construction, the CONTRACTOR shall provide barricades and other warning signs as necessary. Detour signs shall be placed at all intersections where traffic is diverted from the section under construction and at other intersections of the detour to provide complete directions for detouring traffic around the section under construction. CONTRACTOR shall also provide any necessary special signs to signify any hazards or conditions. All barricades, detour

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recommended by the manufacturer.

- 2) Adjustable strap type pipe clamps are not acceptable. Any metal components, if required, for this type support system shall be Type 316 stainless steel.
  - f. Contact between dissimilar metals, including contact between stainless steel and carbon steel, shall be prevented. Supports for brass or copper pipe or tubing shall be copper plated. Those portions of pipe supports which contact other dissimilar metals shall be rubber or vinyl coated.
  - g. All pipe supports, fasteners, anchors and hardware in wetwells, manholes, vaults, pipe trenches and submerged locations shall be AISI Type 316 stainless steel. Stainless steel supports fabricated by welding shall be AISI Type 316L material.
- G. Supports for Horizontal Piping and Spacing of Expansion Joints:
1. Location: Unless closer spacing is indicated on the Drawings, the maximum spacing for pipe supports and expansion joints shall be:

<u>Type of Pipe</u>	Pipe Support Max Spacing, Feet	Max Run Without Expansion Joint, Loop, or Bend (Note a), Feet	Expansion Joint Max Spacing (Note b), Feet
Cast Iron	15	80	80
Cast Iron, glass-lined	12	80	80
<b><u>Steel for hot water heating</u></b>			
1-1/4 inch and smaller	7	30	100
1-1/2 inch to 4 inch	10	30	100
Over 4 inch	15	30	100
<b><u>Steel for other services</u></b>			
1-1/4 inch and smaller	7	30	100
1-1/2 inch to 4 inch	10	30	100
Over 4 inch	15	80	80
<b><u>Stainless Steel</u></b>			
1-1/4 inch and smaller	7	30	100
1-1/2 inch to 4 inch	10	30	100
Over 4 inch	15	80	80
<b><u>Copper for hot water</u></b>			
1 inch and smaller	5	20	100
Over 1 inch	7	20	100
<b><u>Copper for other services</u></b>			
1 inch and smaller	5	--	--

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Over 1 inch	7	50	100
<b><u>CPVC, PVC, and ABS Schedule 80</u></b>			
1/8 inch and 1/4 inch	continuous support	20	60
1/2 inch	3-1/2	20	60
3/4 inch	4	20	60
1 inch and 1-1/4 inch	4-1/2	20	60
1-1/2 inch and 2 inch	5	20	60
2-1/2 inch	5-1/2	20	60
3 inch	6-1/2	20	60
4 inch	7	20	60
6 inch	8	20	60
8 inch	9	20	60
10 inch	9-1/2	20	60
12 inch	10	20	60
<b><u>Polypropylene</u></b>	6	--	--
<b><u>Cast Iron Soil</u></b>	10	--	--
<b><u>PVC, Schedule 40</u></b>			
1/2 inch	3-1/2	20	60
3/4 inch and 1 inch	4	20	60
1-1/4 inch and 1-1/2 inch	4-1/2	20	60
2 inch	5	20	60
2-1/2 inch	5-1/2	20	60
3 inch	6	20	60
4 inch	6-1/2	20	60
6 inch	7-1/2	20	60
8 inch	8	20	60
10 inch	8-1/2	20	60
12 inch	9-1/2	20	60

NOTES:

- Unless otherwise permitted, an expansion joint shall be provided in each straight run of pipe having an overall length between loops or bends exceeding the maximum run specified herein.
- Unless otherwise permitted, the spacing between expansion joints in any straight pipe run shall not exceed the maximum spacing specified herein.
- Expansion joint fittings shall be as specified in the pipe joint and expansion joints section.
- Correction factors shall be applied to the above table as recommended by the manufacturer to adjust for fluid specific gravities other than 1.0.
- Maximum allowable spacing for PVC pipe shall be reduced when required by manufacturer's recommendations for maximum fluid temperatures.