STATEMENT OF WORK

1.01 SUMMARY OF WORK TO BE DONE BY CONTRACTOR

A. Furnish and install a water service line as shown on the drawing.

1.02 SITE LOCATION

A. 9055 Windridge Dr, Sand Springs, OK 74063
B. Latitude: 36.21510 (N) Longitude: -96.09596 (W)
C. Finding Directions: From the intersection of US-412 and OK-97T, go north on OK-97T approx 5.8 miles to Windridge Dr. Go east on Windridge Dr approx. 0.8 miles. Project driveway is on the west side of Windridge.

1.03 CONSTRUCTION SCHEDULE

A. Contact the Project Oversight three business days before the start of any work.
B. Failure to perform work on the scheduled date shall require 24-hour notice for rescheduling the work.
C. Leave all work exposed until inspected and approved. Work not inspected before it is covered will be re-exposed at the Contractor's expense.
D. All work shall be performed Monday – Friday ONLY between the hours of 8:00 a.m. – 5:00 p.m. No work is to be performed on the weekends and/or federal holidays unless other work schedule arrangements are approved by the Project Oversight.
E. Project Oversight: Chris Houston, Engineering Technician
   1203 Heritage Circle
   Pawnee, OK 74058
   Office: (918) 762-6590
   Cell: (918) 290-0985
   Email: christopher.houston@ihs.gov

1.04 WARRANTY

A. Provide a minimum one-year warranty for all materials and labor, covering defects in the materials or workmanship.

1.05 WATER SERVICE LINES (Sizes: 1-inch through 3-inch diameter IPS PE pipe)

A. References (use latest versions)
   1. ASTM D2609 Standard Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe.
   2. ASTM D2737 Standard Specification for Polyethylene (PE) Plastic Tubing.
   3. ASTM D2774 Standard Practice for Underground Installation of Thermoplastic Pressure Piping.
   4. AWWA C651 Disinfecting Water Lines
   5. AWWA C901 Polyethylene (PE) Pressure Pipe and Tubing, ½ in. Through 3 in. for Water Service.
   6. NSF Standard 014 Plastic Piping System Components and Related Materials.
   7. NSF Standard 061 Drinking Water System Components – Health Effects.
B. PE Pipe Material Requirements
   1. Ultra-high molecular weight polyethylene pipe.
   2. PE 4710 IPS DR 11 (pressure rating 200 psi).

3. Diameter: 2-inch.
4. 500-foot coil.
5. Recommended Manufacturer: Silver-Line Plastics Sil-O-Flex OD DR 11 or approved equal.

C. Fittings:
1. Non-flare compression type fittings with stainless steel pipe stiffeners at each joint, heat (butt) fused, or electro-fused fittings will be accepted.

D. Isolation Valve
1. Ball valve:
a. Brass
b. ¼-turn handle type.

E. Valve Box
1. Polyethylene box and cover.
2. Minimum dimensions:
a. Length: 21 inches.
b. Width: 16 inches.
c. Height: 12 inches.
3. Recommended Manufacturer: NDS or approved equal.

1.06 INSTALLATION

A. Install water service lines and appurtenances in the locations, sizes and materials shown on the drawings or staked in the field.

B. Water and sewer service crossing and parallel installation.
1. Maintain a 30-inch horizontal separation between water and sewer services.
2. Maintain a 12-inch vertical separation for crossing water and sewer services. The water service is to be placed above the sewer service whenever possible.
3. Water service line splices or joints will not be permitted within 10 feet of a sewer line crossing.

C. Thrust blocking is to be provided at all changes in direction.

D. All existing fencing shall be undisturbed by construction activities. Any fencing that is disturbed shall be replaced in kind or exceed existing conditions.

E. Any existing private utilities, such as water service lines or electric service lines, shall be avoided. Any damage shall be corrected by Contractor at their expense.

1.07 TRENCH

A. Depth: Minimum 30 inches to the top of the pipe.

B. Bottom: Free from stones greater than 3 inch, large dirt clods, and any frozen material.

C. Backfill: restore trenches to initial grade.
1. Initial Backfill
a. Work material under and around the pipe to ensure full pipe support.
b. Hand tamp to prevent movement of the pipe during placement of material, avoiding contact between the pipe and compaction equipment.
c. Compact in lifts not to exceed 6 inches in loose measurement until 12 inches of backfill covers the top of the pipe.
2. Final Backfill
a. Compact in lifts not to exceed 12 inches in loose measurement with mechanical compacting equipment.
b. Compact all backfill to a density not less than the density of the surrounding undisturbed soil.
c. Surplus materials shall be disposed of in accordance with federal, state and local regulations.
d. Any excessive settlement, exceeding 3 inches, shall be corrected by the contractor.

D. Rock Excavation
1. Definition:

a. Solid rock: large masses or rock which cannot be excavated without hammering, ripping, or other specialized equipment.
b. Loose rock: boulders and/or detached stone having a volume of one cubic yard or more.

2. Execution:
   a. Rock excavation may be accomplished by any or all of the following methods: excavation with earthmoving equipment specialized for rock removal, ripping with a bull dozer, or jack hammering.

E. Remove excavated rock from site unless otherwise directed by the Project Oversight.

1.08 TESTING

A. Before joints are covered, test pipe for leaks.
B. Visually inspect all connections and fittings for leaks in the presence of the Project Oversight.
C. Repair all leaks before backfilling.

1.09 CLOSEOUT ACTIVITIES

A. Restore the site as close as is practical to its original condition.

Caylen J. Willingham -S
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