

*W***INTER HAVEN**

The Chain of Lakes City

October 6, 2010

**ADDENDUM #1
RFQ-11-02
Utility Items**

The Request for Quotation for Utility Items, (RFQ-11-02) is hereby amended by this Addendum Number One by correction of the following:

1. Replace specifications with the attached specifications, pages S-1a thru S-3a. The following has been changed: Mega lugs; Tapping Saddles; Tracer Wire.
2. Items E – F must be Domestic or Sigma brand only.
3. All items must comply with the attached specifications.

All other terms and conditions remain the same.

Sincerely,

CITY OF WINTER HAVEN



Bob Bishop
Procurement Services Division

SPECIFICATIONS 10/07/10

PVC potable water main pipe 4” through 12”: PVC potable water main pipe 4” through 12” shall be manufactured in accordance with AWWA standard C900, latest edition. The PVC pipe shall have a minimum working pressure rating of 150 psi and shall have a dimension ration (DR) of 18. Pipe shall be the same O.D. as ductile iron pipe and be compatible for use with ductile iron fittings. PVC potable water main pipe shall be solid blue in color. White pipe is strictly prohibited. All PVC pipe shall bear the approved seal of the National Sanitation Foundation (NSF) that will remain legible during normal handling, storage and installation.

PVC potable water main pipe 14” through 24”: PVC potable water main pipe 14” through 24” shall be manufactured in accordance with AWWA standard C905, latest edition. The PVC pipe shall have a minimum working pressure rating of 165 psi and shall have a dimension ration (DR) of 25. Pipe shall be the same O.D. as ductile iron pipe. PVC potable water main pipe shall be solid blue in color. White pipe is strictly prohibited. All PVC pipe shall bear the approved seal of the National Sanitation Foundation (NSF) that will remain legible during normal handling, storage and installation.

Polyethylene potable water service pipe: Polyethylene potable water service pipe or tubing shall be blue or identified with a blue stripe with the words “Potable Water” at 8-inch intervals. Tubing shall be SDR 9-200 PSI, type CTSVOD (copper tubing size) or approved equal. The standard dimension ratio (SDR) for Copper Tubing Size (CTS) shall be 9. The average outside diameter, minimum wall thickness and respective tolerances for any cross section shall be specified in ASTM D2737.

PVC Force Main & Gravity Sewer Pipe of 4” through 12”: PVC Force Main & Gravity Sewer Pipe 4” through 12” shall be manufactured in accordance with AWWA standard C900. The PVC pipe shall have a minimum working pressure rating of 100 psi and shall have a dimension ratio (DR) of 25. Pipe shall be the same O.D. as ductile iron pipe. The PVC pipe shall be solid green in color. White pipe is strictly prohibited.

PVC Force Main & Gravity Sewer Pipe 14” through 24”: PVC Force Main & Gravity Sewer Pipe 14” through 24” shall be manufactured in accordance with AWWA standard C905. The PVC pipe shall have a minimum working pressure rating of 165 psi and shall have a dimension ratio (DR) of 25. Pipe shall be the same O.D. as ductile iron pipe. The PVC pipe shall be solid green in color. White pipe is strictly prohibited.

PVC reclaimed water pipe 4” through 12”: PVC reclaimed water pipe 4” through 12” shall be manufactured in accordance with AWWA standard C900, latest edition. The PVC pipe shall have a minimum working pressure rating of 150 psi and shall have a dimension ration (DR) of 18. Pipe shall be the same O.D. as ductile iron pipe and be compatible for use with ductile iron fittings. PVC reclaimed water pipe shall be solid purple in color. White pipe is strictly prohibited. All PVC pipe shall bear the approved seal of the National Sanitation Foundation (NSF) that will remain legible during normal handling, storage and installation.

SPECIFICATIONS

Gate Valves 4 inches and over: Gate valves 4 inches and over shall be of the resilient seat type meeting the requirements of AWWA C500/C509. These valves shall have non-rising stems, shall be furnished with 2-inch square AWWA operating nuts, and shall open when the nut is turned counterclockwise. Valves shall have an unobstructed waterway equal to or greater than the full nominal diameter of the valve. The valve body shall be constructed of close grain cast iron or ductile iron per ASTM A126, Class B or equivalent material. All retaining segments and adjusting devices shall be of corrosion resistant material. Valve seats shall be a natural rubber or synthetic rubber compound. Valve seats 30 inches and larger shall be field adjustable and replaceable without dismounting operator disc or shaft and without removing the valve from the line. All retaining segments and adjusting devices shall be of corrosion resistant material. Valves 24 inches and smaller shall have bonded or mechanically restrained seats as outlined in AWWA C504. The face-to-face dimensions of valves shall be in accordance with AWWA C504 for short-body valve.

Gate valves 2 inches and under: Gate valves 2 inches and under shall conform with Federal Specifications WW-V-54 Type I solid wedge disc, non-rising stem, secured joints and of bronze construction. Valves shall have malleable iron hand wheels and shall be American 3FG, Nibco T-113, or equal.

Tapping Valve: Tapping valves shall be mechanical joint outlet, non-rising stem, resilient seat gate valves meeting the applicable requirements of AWWA C509. Tapping valves shall be specifically designed for pressure tapping with sufficient seat opening to allow full diameter taps to be made. Tapping valves shall be manufactured with an integral tapping flange having a raised lip design. The valve body shall be constructed of close grain cast iron or ductile iron per ASTM A126, Class B or equivalent material. All retaining segments and adjusting devices shall be of corrosion resistant material. Valve seats shall be a natural rubber or synthetic rubber compound. Valve seats 30 inches and larger shall be field adjustable and replaceable without dismounting operator disc or shaft and without removing the valve from the line. All retaining segments and adjusting devices shall be of corrosion resistant material. Valves 24 inches and smaller shall have bonded or mechanically restrained seats as outlined in AWWA C504. The face-to-face dimensions of valves shall be in accordance with AWWA C504 for short-body valve.

Butterfly Valves: Butterfly Valves and operators shall conform to the AWWA Standard Specification for Rubber Seated Butterfly Valves, Designation C504, except as specified. The valve shaft shall be turned, ground, and polished constructed of 18-8 stainless steel and designed for both torsional and shearing stresses when the valve is operated under its greatest dynamic or seating torque. Shaft shall be of either a one-piece unit extending full size through the valve disc and valve bearing or it may be of a stub shaft design. In general, the butterfly valve operators shall conform to the requirements of AWWA Standard Specifications for Rubber Seated Butterfly Valves, Designation C504.

Potable Water Air Release Valves: Potable Water Air Release Valves shall have a cast iron body, cover and baffle, stainless steel float, bronze water diffuser Buna-N or Viton seat, and stainless steel trim. Valves, fittings, and piping shall be rated for a minimum working pressure of 150 psi. The fittings shall be threaded.

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Wastewater Air Release Valve: must be 2" ARI # D-025-P

Check Valves: Check valves shall conform to the requirements of AWWA C508 and shall be iron body, fully bronze mounted, stainless steel hinge pin, outside lever weight operated, swing non-slam type, and equipped with removable inspection covers. Valves design shall incorporate a rubber-faced bronze clapper disc seated by a bronze clapper arm against a bronze seat ring. The clapper arm shall be secured to a stainless steel shaft which turns in bronze bushings. The bushings shall be provided with "O" ring seals. Valves shall be suitable for horizontal installation. Units shall be rated for 150 psi minimum working pressure and shall permit full flow area equal to that of the connecting pipe.

Tapping Sleeves: Tapping sleeves for size-on-size connections shall be mechanical joint split cast iron units and rated for 200 psi working pressure in accordance with AWWA C110. For less than size-on-size connections, tapping sleeves shall be fabricated steel units with a fusion-bonded epoxy coating and shall be pressure rated as above. Tapping sleeves shall have an outlet flange with the dimensions of the Class 125 flanges shown in ANSI B16.1, properly recessed for tapping valve. Glands shall be gray-iron or ductile iron. Gaskets shall be vulcanized natural or synthetic rubber. Bolts and nuts shall comply with ANSI/AWWA C111/A21.11.

Curb Stops: The curb stops shall be ball valve, roundway, with deck, with lock wing cast on stop body and operating tee cap to provide for locking the stop in closed position. Curb stops shall be threaded in accordance with specifications in AWWA C900 and AWWA C901. All curb stops must be pack joint fittings (no compression).

Tapping Saddles: Tapping saddles shall have a body made of stainless steel or ductile iron coated with fusion epoxy or nylon, be equipped with double stainless steel tie straps, and be suitable for either wet or dry installation. The sealing gasket shall be the O-ring type suitable for the applicable service. Outlet flange shall be ANSI B16.1, 125 lbs. standard.

Dual Service Branches: Dual service branches (for near-side services only) for a 1-inch service shall be Mueller 15343, or approved equal.

Mega-Lug Restraints: EBAA Iron only. Mega-Lug Restraint dimensions of the gland shall be such that it can be used with the standardized mechanical joint bell and tee-head bolts conforming to ANSI A21.11 and ANSI/AWWA C153/A21.53. Twist-off nuts shall be used to ensure proper actuating of the restraining devices. EBAA only.

Tracer wire: 14 AWG, solid wire, 60-mils PVC insulator (insulating color per specification), UF, 500 feet per roll.