



**City of Tampa**  
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**ADDENDUM 3**  
**Via E-Mail**  
**DATE: October 21, 2020**

Contract 21-C-0001; WASTEWATER COLLECTION SYSTEM REPAIRS FY21

Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

Item 1: The bid opening date is hereby changed to November 3, 2020.

Item 2: Add to the Instructions to Bidders the attached I-1.19 Contractor Qualifications.

Item 3: Add to the Contract Items the attached Contract item 104 Series MOT.

Item 4: Replace Proposal Pages P-2, P-3 and P-4 with the attached Proposal pages P-2 and P-3.

Item 5: Replace Workmanship and Materials Section 32 – Valves with the attached Section 32 – Valves.

Item 6: Contract Item 0700 and 0900 Series – PVC PIPE – delete “maintenance of traffic” from the second paragraph.

Item 7: Contract Item 1005 Series – Directional Drilled Pipe – delete “maintenance of traffic” from the second paragraph.

Item 8: Contract Item 7000 Series – Plug Valves – delete “maintenance of traffic” from the second paragraph.

Item 9: Contract Item 7500 Series – Air Release System – delete “maintenance of traffic” from the second paragraph.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect. Questions are to be e-mailed to Contract Administration@tampagov.net.

*Jim Greiner*

Jim Greiner, P.E., Contract Management Supervisor

### **I-1.19 Contractor Qualifications and Experience**

The Contractor shall possess the necessary qualifications and experience to perform , but not be limited to, the following tasks: construction of wastewater pipelines, manholes, air release valves, plug valves, hot taps, linestops, maintenance of traffic devices, bypass pumping systems, sidewalks, driveways, pavement replacement, and all appurtenant work. Work Orders will be issued for various planned projects and unplanned emergency repairs that require immediate responses. The Contractor shall be qualified and capable to successfully complete both types of Work Orders. The Contractor must have and demonstrate five (5) consecutive years of successful experience in work similar in scope and magnitude to this Contract. The Contractor must have sufficient staff to dedicate at least two (2) full-time (five man) crews if necessary, to work on multiple Work Orders concurrently and be capable of responding to emergency projects within 24 hours. The Contractor shall confirm this experience and submit a detailed list of references after the bid. The Contractor shall also provide a minimum of 3 projects along with references on which the Contractor, and not a subcontractor, responded within 24 hours to an emergency project such as a pressured pipe rupture or a cave-in associated with a deteriorated gravity sewer pipe or manhole. The projects used to meet this experience requirement shall be of similar difficulty and magnitude to the work proposed by the City. The experience of subcontractors cannot be used to meet this requirement. The City reserves the right to reject any Bid Proposal if the experience submitted by the Bidder fails to satisfy this requirement and the City determines that the Bidder is not properly qualified to carry out the obligations of the contract and to complete the work described herein. The City shall be the sole judge as to whether the experience meets the requirements of this section. The Contractor must provide a qualified foreman that has at least 10 years of experience in the construction of underground utilities and has been employed by the Contractor for at least three consecutive years in underground utilities construction. The foreman shall be present at all times when construction work is being performed and all communications given to the foreman shall be binding, as if given to the Contractor. The Contractor will be required to perform with its own forces at least fifty-one percent (51%) of actual construction work on the contract (excluding administrative and supervisory functions). The fifty-one percent (51%) of actual work is intended to apply to the entire amount of all Contract work and not necessarily to every individual Work Order.

## CONTRACT ITEM 104 SERIES – MAINTENANCE OF TRAFFIC

The Contractor shall furnish all materials, equipment, and labor to establish and maintain all traffic maintenance devices and personnel as shown on the Plans, specified, and directed by the Engineer.

The work includes installation of all signs, barricades, cones, and light towers; and the utilization of flagmen, and all appurtenant work complete in place as necessary to control traffic and provide for safety to the public, all in compliance with the Manual on Uniform Traffic Control Devices, "MUTCD", with subsequent revisions and additions, and to the satisfaction of the Engineer.

Flagmen must be FDOT trained personnel and utilized throughout the entire duration of the approved traffic control operation. The use of flagmen must be approved in advance by the City as well as the agency with jurisdiction over the road. Intermittent use of flagmen for incidental work such as temporary access over a manhole or work vehicles entering the work zone shall be considered incidental and no separate payment will be made. Payment for a flagman will be made at the appropriate contract item per day price. Light towers shall include all fuel and all appurtenant items to fully operate, at the appropriate contract item per day price.

Payment for Maintenance of Traffic will be made at the appropriate Contract Item per Day Price. A day will be considered as a 24-hour period. Any Items not listed as a separate contract item is considered an incidental part of the contract and shall be included in the cost of the sewer pipe installation with no additional payment to be made.

**21-C-00001; Wastewater Collection System Repair –FY21  
Bid Opening: 1:30P.M., November 29, 2020**

FY21 Annual Repair Contract - Bid Response							
Item No.	Description	Unit	Approx. Quantity	Unit Price in Words	Unit Price	TOTAL	
0101	Mobilization	L.S	1	\$	80,000.00	\$80,000.00	
0102	Contingency	LS	1	\$	100,000.00	\$100,000.00	
0103	Project Sign	Ea	2				
104-60	Work Zone Signs	E.D.	1,000				
104-74-1	Barricades Type I or II	E.D.	1,000				
140-74-2	Barricades Type III	E.D.	800				
104-74-3	Cones	E.D.	5,000				
104-75-1	Light towers	E.D.	50				
104-75-2	Flagman operation	E.D.	200				
104-76	Arrow Board	E.D.	100				
104-77	Variable Message Board	E.D.	20				
0110	Additional Earth Excavation	C.Y.	20				
0120	Excavation for Restraining Device on Existing Force Main	C.Y.	4				
0130	Additional Select Sand Fill	C.Y.	100				
0140	Additional Select Crushed Stone Material	C.Y.	10				
0170	Class D Concrete	C.Y.	20				
0200	Short Tunnel	L.F.	10				
0520-1	Standard Concrete Curb or Gutter	L.F.	200				
0708.06	8-Inch Diameter, SDR-35, PVC Pipe Sewer in cuts 0 to 6 ft.	L.F.	4,000				
0708.13	8-Inch Diameter, SDR-35, PVC Pipe Sewer in cuts 6 to 13 ft.	L.F.	2,500				
0900-4-06	4" Dia. C900 PVC, CI-150, Green, 0'-6" Cut	L.F.	800				
0900-4-13	4" Dia. C900 PVC, CI-150, Green, 6'-13" Cut	L.F.	500				
0900-6-06	6" Dia. C900 PVC, CI-150, Green, 0'-6" Cut	L.F.	500				
0900-6-13	6" Dia. C900 PVC, CI-150, Green, 6'-13" Cut	L.F.	500				
0900-8-06	8" Dia. C900 PVC, CI-150, Green, 0'-6" Cut	L.F.	4,000				
0900-8-13	8" Dia. C900 PVC, CI-150, Green, 6'-13" Cut	L.F.	3,500				
0900-12-06	12" Dia. C900 PVC, CI-150, Green, 0'-6" Cut	L.F.	2,000				
0900-12-13	12" Dia. C900 PVC, CI-150, Green, 6'-13" Cut	L.F.	1,000				
1005-4	4" Dia. HDPE, AWWA C-906, by directional bore, any length (DIP Size)	L.F.	1,000				
1005-6	6" Dia. HDPE, AWWA C-906, by directional bore, any length (DIP Size)	L.F.	2,000				
1005-8	8" Dia. HDPE, AWWA C-906, by directional bore, any length (DIP Size)	L.F.	2,000				
1005-12	12" Dia. HDPE, AWWA C-906, by directional bore, any length (DIP Size)	L.F.	1,500				
1063.4	Install Tee or Wye on Existing 4-inch Dia. Pipe or HOT TAP	Ea	2				
1063.6	Install Tee or Wye on Existing 6-inch Dia. Pipe or HOT TAP	Ea	2				
1063.8	Install Tee or Wye on Existing 8-inch Dia. Pipe or HOT TAP	Ea	2				
1063.12	Install Tee or Wye on Existing 12-inch Dia. Pipe or HOT TAP	Ea	2				
1706	6-Inch Diameter PVC Pipe House Lateral (SDR-35)	L.F.	1,500				
1706.1	6-Inch Diameter PVC Pipe House Lateral (Green AWWA CL. 150, C900)	L.F.	200				
2400.4	4" Dia. C900 PVC or DIP, Bends, Sleeves, Reducers, Caps or Plugs	Ea	20				
2400.6	6" Dia. C900 PVC or DIP, Bends, Sleeves, Reducers, Caps or Plugs	Ea	50				
2400.8	8" Dia. C900 PVC or DIP, Bends, Sleeves, Reducers, Caps or Plugs	Ea	50				
2400.12	12" Dia. C900 PVC or DIP, Bends, Sleeves, Reducers, Caps or Plugs	Ea	40				
2708	8" x 6" Dia SDR-35 Wye	Ea	80				
2800.4	4" Dia. C900 PVC or DIP Tees or Wyes	Ea	2				
2800.6	6" Dia. C900 PVC or DIP Tees or Wyes	Ea	4				

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Bid Opening: 1:30P.M., November 29, 2020**

FY21 Annual Repair Contract - Bid Response		Unit	Approx. Quantity	Unit Price in Words	Unit Price	TOTAL
Item No.	Description	Unit	Approx. Quantity	Unit Price in Words	Unit Price	TOTAL
2800.8	8" Dia. C900 PVC or DIP Tees or Wyes	Ea	4			
2800.12	12" Dia. C900 PVC or DIP Tees or Wyes	Ea	2			
3300.4	4" Dia. Thrust Restraint	Ea	40			
3300.6	6" Dia. Thrust Restraint	Ea	80			
3300.8	8" Dia. Thrust Restraint	Ea	100			
3300.12	12" Dia. Thrust Restraint	Ea	155			
3506	6-inch Flexible Connector w/Stainless Steel Shear Ring	Ea	30			
3508	8-inch Flexible Connector w/Stainless Steel Shear Ring	Ea	20			
4000	Precast Concrete Standard or Doghouse Manhole Base	Ea	8			
4100	Precast Concrete Manhole Barrel	L.F.	40			
4200	Precast Concrete Manhole Cone	Ea	4			
4300	Precast Concrete Standard or Doghouse Shallow Type Manhole	Ea	4			
4400	FRP Manhole	V.F.	30			
4600	Cast Iron Manhole Frame and Cover	Ea	25			
4660	6-inch Diameter PVC Cleanout and Cover	Ea	80			
4700.8	8-inch Diameter PVC Pipe Manhole Drop Connection	L.F.	10			
4900	Connect to Existing Manhole, no existing pipe	Ea	8			
5000	Remove Existing Pipe 4" to 27" Diameter Outside of Pay Limits	L.F.	1,000			
5051	Filling of Existing Sanitary Sewers	C.Y	50			
7000.4	4" Dia. Plug Valve with Box	Ea	4			
7000.6	6" Dia. Plug Valve with Box	Ea	4			
7000.8	8" Dia. Plug Valve with Box	Ea	4			
7000.12	12" Dia. Plug Valve with Box	Ea	4			
7500	Air Release Valve Assembly with traffic rated box and cover	Ea	25			
8000	Permanent Pavement Base (Crushed Limerock or Crushed Concrete)	C.Y	1,500			
8100	Permanent Asphalt Pavement Type S	ton	300			
8100.1	Permanent Asphalt Pavement Type Superpave (including testing)	ton	400			
8306	Permanent 6" Thick Concrete Driveway	S.Y	250			
8604	Permanent 4" Thick Concrete Sidewalk	S.Y	750			
8900.2	Bahia Sod	S.Y	2,000			
8900.3	St. Augustine Sod	S.Y	1,000			
9000.1	Force Main Sewage Bypass Piping, 6 to 8-inch	L.F	350			
9000.2	Force Main Sewage Bypass Piping, 10 to 12-inch	L.F	350			
9100.4	4-inch Dia. Line Stop, 3 day max.	Ea	2			
9100.6	6-inch Dia. Line Stop, 3 day max.	Ea	3			
9100.8	8-inch Dia. Line Stop, 3 day max.	Ea	4			
9100.12	12-inch Dia. Line Stop, 3 day max.	Ea	4			
9200	Root Pruning	L.F	200			
9300	Sawcut Asphalt or Concrete Pavement, Driveways or Sidewalks	L.F	400			
9400	Mill Existing Asphalt Pavement, any quantity	IN/S.Y	1000			
10000.4	Connections between 4" PVC/P & HDPE	Ea	4			
10000.6	Connections between 6" PVC/P & HDPE	Ea	4			
10000.8	Connections between 8" PVC/P & HDPE	Ea	6			
10000.12	Connections between 12" PVC/P & HDPE	Ea	4			
20000	As-Built Plans	Sheet	6			
				<b>TOTAL</b>		

## SECTION 32 - VALVES

### W-32.01 General

This section includes all valves to be used on City maintained force mains, City owned pump stations and the Howard F. Curren Advanced Wastewater Treatment Plant. Requirements of this section apply to all valves unless exceptions are shown or stated on the plans or specific provisions.

Plug valves for buried applications shall be provided with mechanical joints. Plug valves for above-ground applications shall be provided with flanged connections.

All force main valves shall be plug valves meeting the requirements of the sub-section "Eccentric Plug Valves."

Valves 2 inches in diameter and smaller shall be all brass or bronze, except the handwheel, and shall have screwed ends. Valves 2-1/2 inches in diameter and larger shall be iron body, bronze mounted with flanged ends, except that in the smaller sizes, valves may be all bronze at the Contractor's option.

All gate, globe, and angle valves shall have rising stems, unless otherwise specified, and shall open when the nut or handwheel is turned counterclockwise. Each handwheel shall be marked with an arrow and the word "Open." Each nut shall be marked with an arrow and shall not be greater than 24 inches in depth below finished grade.

All references to "stainless steel" or "SS" shall mean 316 stainless steel.

All valves of the same type shall be from a single manufacturer. Parts of valves of the same type and size shall be interchangeable.

All valves shall be carefully erected in their respective positions, free from all distortion and strain, and shall be packed and left in satisfactory operating condition.

### W-32.02 Submittals

The Contractor shall prepare and submit for approval a complete detail drawing of all valves in accordance with the requirements of the General Provisions. At minimum the submittal shall show all proposed material types to be used as well as proposed interior and exterior coating manufacturer, coating type and proposed minimum dry film thickness.

### W-32.03 Flanges

Flanges shall be cast solid and faced accurately at right angles to the axis of the casting. Flanges shall be faced and drilled and shop coated with a rust preventive compound before shipment.

Dimensions and drillings of flanges shall meet the requirements of ANSI B16.1 for working pressures of 125 pounds per square inch. Special drillings shall be provided where required.

#### W-32.04 Gate Valves

Except as otherwise specified, gate valves shall meet the requirements of Fed. Spec. WW-V-54, Class A, 125 pounds.

Gate valves shall have standard stuffing box seals. Bonnet bolts, studs, and nuts shall be cadmium plated. Wedging devices shall be bronze to iron or bronze to bronze as specified. Glands shall be bronze bushed; gland bolts and nuts shall be bronze.

Gate valves 2-1/2-inch diameter and larger shall be of the double disc type. Gate valves 2-inch diameter and smaller may be of the double disc or solid wedge type.

Valves with operating nuts or wheels 7 feet or more above the floor shall be provided with chains and chain wheels.

#### W-32.05 Globe and Angle Valves

Except as otherwise specified herein, globe and angle valves shall meet the requirements of Fed. Spec. WW-V-51, Class A, 125 pounds.

#### W-32.06 Hose Valves

Hose valves shall be globe or angle valves with rising stems, and rubber composition discs for cold water pressures up to 200 psi, nonshock.

Hose valves shall be all bronze or brass, except the handwheel which shall be of malleable iron. Hose threads shall conform to ANSI B2.4.

#### W-32.07 Check Valves

Check valves, unless otherwise specified, shall be APCO Series 100 of the horizontal, swing type designed to allow full diameter passage and to operate with a minimum loss of pressure. A Letter of Standardization has been executed for this valve. The letter states that no other valve shall be considered an "or equal" in accordance with the City's standardization program. The "or equal" clause applies to all other equipment, unless specifically excluded by a Single Source Certificate or Letter of Standardization.

Check valves shall have body and body cover of heavily constructed cast iron meeting requirements of ASTM A48, Class 30. Check valve body shall have integrally cast-on end flanges. The flapper shall be rubber and have an "O" ring seating edge and be internally reinforced with steel. The flapper shall be easily replaced while the valve remains in place.

The exterior of the check valve shall be factory coated with an approved interior and exterior corrosion resistance coating. The exterior of the check valve shall receive a field coat as indicated for "Steel Pipe and Fittings" in the Workmanship & Materials Section titled "Painting".

#### W-32.08 Pump-Check Eccentric Plug Valve

Pump-check valves, unless otherwise specified, shall meet the requirements of the subsection for "Eccentric Plug Valves".

The valve shall be equipped with a G-Series rotary cylinder pneumatic actuator that is properly sized for the existing compressed air system within the pump station.

Plug valves shall be Dezurik PEF (100% Port) eccentric plug valve or approved equal.

#### W-32.09 Eccentric Plug Valves

Plug valves shall be of the eccentric valve design and shall meet or exceed the requirements of AWWA C517 and shall be designed for 175 PSI 3'-12" and 150 PSI 14"-36". Manufacturer's Name shall be cast in body and Valve shall be serialized for future parts identification. Port area shall be 100% of standard pipe area. The Plug shall be Rectangular with associated Rectangular Port and shall provide dead tight shutoff when seated in the closed position. Body material shall be Cast Iron ASTM A126 Class B, Seats shall be 1/8" thick 95% Nickel and 1/2" wide for proper plug seating. Plug shall be Ductile Iron ASTM A536 and Chloroprene Faced. Bearings shall be sintered, oil impregnated permanently lubricated type 316 stainless steel, include upper and lower grit excluders to prevent grit and foreign solids from entering the bearings. Shaft seals shall be multiple V-ring type and shall be externally adjustable via an air gap and re-packable under pressure without removing the actuator or bonnet from the valve. Valves shall have interior and exterior epoxy.

Plug valves shall be nut operated (1/4 turn) 4" to 8" and gear operated 10" and larger. Both nut and gear operated valves shall have a 2-inch square nut for operation. On pump stations where the valve is 7 feet or more above the floor level, a chain and wheel shall be provided for operation.

Plug valves shall be Dezurik PEF (100% Port) eccentric plug valve or approved equal.

#### W-32.10 Knife Gate Valves

Valves shall be bonnetless wafer knife gate type with cast single-piece body construction. Lugged ends shall have threaded holes in accordance with ANSI B16.1 125/150 pound standards. Working pressure rating shall be 150 psi in sizes 2"-24". Valve body and gate shall be stainless steel type 316 or as specified. Stem shall be



type 304 stainless steel. Valve shall have a round port equal to 100% of the connecting pipe. Valves shall be chloroprene resilient seated or as specified.

The body design shall have no pockets or grooves in the flow port where media can settle and adversely affect closure. The gate shall be polished to provide low thrust requirements and long packing life. The leading edge of the gate shall be beveled to assist in closure. The stem shall be outside of the body and will not contact the flowing media. Valves shall have multi-layer square packing with adjustable packing gland bolting.

All valve bodies shall be tested with water at 150% of rated pressure with no visible leakage. Assembled valves shall be tested for seat leakage with water at 40 psi applied to the back of the gate (pressure in the normal flow direction) and allowable leakage shall be as per MSS SP-81 specifications.

Valves shall be provided with a manually operated direct-mounted handwheel as specified or shown on the construction drawings. Floor stands and extensions shall be provided if specified. Valve superstructures shall be designed to allow easy field interchangeability between manual and pneumatic actuators. New superstructures shall not be required for conversion between manual and pneumatic operators.

Metal surfaces other than stainless steel shall receive a field coat as indicated for "Steel Pipe and Fittings" in the Workmanship & Materials Section titled "Painting".

Valves shall be model GKU by DeZURIK, Inc, or approved equal.

#### W-32.11 Multiport Valves

Three-way and four-way valves, unless otherwise specified, shall meet the requirements of the sub-section for eccentric plug valves.

#### W-32.12 Solenoid Valves

Solenoid valves, unless otherwise shown or specified, shall be normally closed packless type with full area ports. The body and bonnet shall be forged brass and the solenoid core shall be stainless steel. The diaphragm shall be of synthetic rubber assuring long service life. The coils shall be designed for 115-volt, 60-hertz operation and shall be embedded in molded plastic in NEMA Type I general purpose enclosure.

#### W-32.13 Ball Valves for CPVC Piping

Manually operated ball valves for CPVC piping shall be CPVC ball valves having renewable Teflon ball seats and EPDM seals. Ball valves shall block in both seating directions, leaving full pressure on the opposite end of the valve. The CPVC ball valves shall be rated at not less than 150 psi working pressure at 75 degrees F, self-lubricating, and shall have socket end connectors. The ball valves shall be of true union design to

allow for inspection or removal. CPVC ball valves shall be as manufactured by Hayward Industrial Products, Inc., or equal.

#### W-32.14 Ball Check Valves for CPVC Piping

Ball check valves for CPVC piping shall be constructed of solid CPVC and shall have a CPVC ball. The check valve shall have EPDM O-rings and shall be capable of operating either horizontally or vertically. The check valve shall have a full flow design that provides a free open area that is equivalent to the connecting pipe size. The check valves shall have socket end connectors and shall be of the true union design to allow for inspection and removal of the valve. Ball valves for CPVC piping shall be as manufactured by Hayward Industrial Products, or equal.

#### W-32.15 Testing

All valves shall be given hydrostatic shop pressure tests at twice the working pressure specified. The valves shall be tested, first by applying the hydrostatic pressure with the valve open and then with the valve closed. The valves shall be tight and secure under the test pressure.

Valves shall be tested in place by the Contractor, as far as practicable, and any defects in valves or connections shall be corrected to the satisfaction of the Engineer.

#### W-32.16 Painting and Coating

Plug valves shall receive a factory interior and exterior coating of Tnemec Series 141 (4 mils thick).

All other valves shall receive a factory interior and exterior coating of an approved system.

Metal surfaces other than stainless steel shall receive a field coat as indicated for "Machinery and Equipment" in the Workmanship & Materials Section titled "Painting".

Chain wheels shall be coated by galvanizing or electroplating with zinc or cadmium. The chain shall be coated by electroplating with zinc or cadmium. Zinc electroplating shall meet the requirements of Fed. Spec. QQ-Z-325, Type II, Class 2; and cadmium electroplating shall meet the requirements of Fed. Spec. QQ-P-416, Type II, Class 2.

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