

June 12, 2020

Re: Claremont Wastewater System Improvements
Helms A-6730

Bid Opening: Wednesday, June 17, 2020
2:00 pm Local Time

ADDENDUM NUMBER 1

The following modifications are made to the plans and specifications for the Claremont Wastewater System Improvements project.

Contract Documents and Technical Specifications

1.) Construction Bidding Documents; Section 00 42 43 Bid Form – Unit Price, Article 5. Basis of Bid; Page 40-42 of 620; Revisions:

- REMOVE line item #43 Trash Basket Assembly from the Base Bid
- Please use the attached Revised Alternate Bid Form.
 - (Added line item for Mobilization. Deducting the Sanitary Sewer Saddle Wye, Item #32, if Alternate Bid is awarded. Duplex Lift Station and Valve Pit line items have changed. 8" x 4" Inline Sanitary Sewer Wye quantity has changed.)
- Contractor MUST submit a bid for Alternate Bid.

2.) Construction Technical Specifications, SECTION 33 31 00 – SANITARY SEWER PIPING AND FITTINGS; Revisions:

Part 2.08.; TRANSITION COUPLINGS (GRAVITY PIPING);

ADD F. SADDLE WYES

1. Manufactured to meet the requirements of ASTM D 5926
2. Pre-approved equal Fernco Flexible Tap Saddle TSW-4 or TSW-6
 - a. Installed according to Manufacturer's recommendations with accompanying TSPK-46 Tap Saddle Pressure Kit

3.) Construction Technical Specifications, SECTION 33 32 13.13 – DUPLEX SUBMERSIBLE PUMP LIFT STATIONS; Revisions

1.03. OPERATING CONDITIONS

B. Maximum allowable motor size shall be 10 horsepower with a minimum efficiency rating of **40%**. Motors shall be sized with a minimum **1.15-service factor** under the maximum continuous load.

Part 2.04. CONTROLS

D. A mechanical disconnect mechanism on the circuit breaker will not be required as long as an exterior disconnect from the power will be supplied.

O. Owner possesses a minimum 100 amp generator.

2.06. SYSTEM AND LOGIC FUNCTION

A. In lieu of the submersible pressure transmitter, a float based level control system may be used.

2.11. STRAINER BASKET ASSEMBLY [REMOVE]

A. The strainer basket assembly will not be required in the lift station.

2.13. MISCELLANEOUS SUPPLIES [REMOVE]

A. The contractor shall supply the Owner one spare impeller and two spare mechanical seal kits.

B. Provide the Owner with one spare Variable Frequency Drive (VFD).

- These parts will NOT be required to be supplied to the owner.

4.) Construction Technical Specifications, SECTION 33 47 13.01 – HIGH DENSITY POLYETHYLENE GEOMEMBRANE (HDPE) Clarification;

HDPE Geomembrane shall be smooth.

5.) Construction Technical Specifications, SECTION 40 05 24 – FLEXIBLE EXPANSION COUPLER

Please see attached specification for flex coupler.

6.) Construction Technical Specifications, SECTION 40 05 78.21 – SEWAGE AIR RELEASE VALVES (SARV) Addition;

Please see attached specification for air release valve.

Plans

7.) Construction Plans, Sheet 4 of 50 – General Plan Notes Revision

- Contractor may NOT utilize water from the City's water system.

8.) Construction Plans, Sheet 42 of 50 – Duplex Lift Station Typical Detail Revision

- Remove Trash Basket Assembly and associated components from Lift Station
- A 30" x 30" aluminum access frame and locking lid will be provided for the valve pit in lieu of the 24" x 24" access hatch that is called out on the plan view and elevation view.
- All access frame and locking lids shall be provided with safety grates.
- The control panel shall be mounted on green treated posts or stainless steel Unistrut encased in a minimum 48 inch depth by 12 inch diameter of concrete beneath ground surface.
- The 56 SF of 6" thick reinforced concrete work area/control panel pedestal will NOT be installed.

ALL OTHER ITEMS OF THE PLANS AND SPECIFICATIONS REMAIN UNCHANGED.



BY _____
PROJECT ENGINEER - HELMS AND ASSOCIATES

=====

FIRM NAME: _____ BY: _____

TITLE: _____ DATE: _____

ATTACH THIS SIGNED ADDENDUM NUMBER #1 TO THE BID FORM WHEN
SUBMITTING AND/OR ACKNOWLEDGE THE ADDENDUM ON THE BID FORM.

ALTERNATE BID

Item #	Item Description	Quantity	Unit	Unit Price	Total Price
1	Mobilization	1	L.S.	\$	\$
2	Remove and Dispose of 6th St. Lift Station	1	L.S.	\$	\$
3	Remove and Dispose 5th St. Lift Station	1	L.S.	\$	\$
4	Remove and Dispose of Existing Manhole	7	Each	\$	\$
5	Remove and Reset Mailbox	2	Each	\$	\$
6	8" Sanitary Sewer Pipe 8.1' to 10'	496	Ft	\$	\$
7	8" Sanitary Sewer Pipe 10.1' to 12'	268	Ft	\$	\$
8	8" Sanitary Sewer Pipe 12.1' to 14'	919	Ft	\$	\$
9	Sanitary Sewer Televising & Report (Post Install)	1,683	Ft	\$	\$
10	Sanitary Sewer Manhole (0'-8' Depth)	5	Each	\$	\$
11	Extra Depth Manhole	15.1	Ft	\$	\$
12	Manhole Exfiltration/Vacuum Testing	5	Each	\$	\$
13	8" x 4" Inline Sanitary Sewer Wye	14	Each	\$	\$
14	Dewatering (Pipe Depth >10 Feet)	1,187	Ft	\$	\$
15	Pipe Bedding	230.0	Tons	\$	\$
16	Rock Bedding	542.0	Tons	\$	\$
17	Sewer Bypass Pumping	1	L.S.	\$	\$
18	Asphalt Surfacing (3")	105.0	Tons	\$	\$
19	Gravel Road Repair (3" Depth)	197.0	Tons	\$	\$
20	Base Course (9" Depth)	906.0	Tons	\$	\$
21	Remove and Replace 18" CMP Culvert	35	Ft	\$	\$
22	Duplex Lift Station & 6' x 6' Wet Well	1	L.S.	\$	\$
23	6' x 6' Control Valve Pit, Complete	1	L.S.	\$	\$
24	New Control Panel	1	L.S.	\$	\$
25	Electrical	1	L.S.	\$	\$
26	Lift Station Warning Sign	1	Each	\$	\$
27	Lift Station Bypass Pumping	1	L.S.	\$	\$
28	6' Chain Link Fence	76	Ft	\$	\$
29	4' x 6' Walk Through Gate	1	Each	\$	\$
30	12' Cantilever Roll Gate	1	Each	\$	\$
31	Topsoil, Seed, Fertilize & Mulch (Lawn)	0.5	Acre	\$	\$
32	8" x 4" Sanitary Sewer Wye (Saddle Wye Type)	(14)	Each	\$	\$
TOTAL				\$	

SECTION 40 05 24 – FLEXIBLE EXPANSION COUPLER

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. The General Provisions of the Contract, including General and Supplementary Conditions, apply to Work specified in this Section.
- B. Related requirements specified elsewhere:
 - 1. See Lift Station Drawings

1.02 DESCRIPTION

- A. This section includes the furnishing, installing, testing, and adjustment of the flexible coupler between lift station wetwell and vault for both the sanitary sewer lift station and storm sewer lift station.

1.03 SHOP DRAWINGS

- A. The Contractor shall submit for review 2 copies of the complete shop drawings and details for all equipment, piping, valves, operators, hangers, supports, couplings, meters, and other special appurtenances to be used. This shall include required submission for the location of all piping, wall penetrations, etc.

PART 2 PRODUCTS

2.01 GENERAL

- A. The materials used shall be new, free from defects, and shall conform to the requirements for class, kind, and size shown on the plans.

2.02 FLEXIBLE COUPLINGS

Flexible couplings shall be per the size indicated on the plans and shall be dual ball jointed.

Flexible expansion joints shall be installed in the locations indicated on the drawings and shall be manufactured of ductile iron conforming to the material requirements of ASTM A536 and ANSI/AWWA C153/A21.53. Foundry certification of mechanical testing and spectrographic analysis shall be readily available upon request.

All surfaces shall be fusion bonded epoxy coating conforming to the applicable requirements of ANSI/AWWA C213, and epoxy coating shall be certified and listed to meet the requirements of NSF Standard 61.

Flexible expansion joints shall incorporate integral expansion and contraction in their design, shall provide for continued expansion and contraction in the deflected state, shall be a boltless design and no fasteners will be required for assembly of the expansion joint itself.

Rubber sealing rings will be suitable for water and wastewater service, and shall require no maintenance. The rubber sealing ring materials and lubricant shall be certified and listed to meet the requirements of NSF Standard 61.

Flexible expansion joints will include removable tie rods to prevent axial movement during shipping, handling and installation.

Suitably sized, 8 mil thick polyethylene sleeves shall be provided for direct bury applications. These PE sleeve materials will meet the requirements of ANSI/AWWA C105/A21.16.

Working / Test Pressures:

SIZE / CONFIGURATION	WORKING PRESSURE (PSI)	TEST PRESSURE (PSI)
3” – 16” MJ & FLANGED	350	438

A manufacturer’s certification of compliance on the above standards and requirements shall be readily available upon request. The consultant, purchaser or utility owner shall reserve the right to inspect the manufacturer’s facility for compliance. All flexible expansion joints shall be FJ RESTRAINT as manufactured by ROMAC Industries, Inc. Bothell, WA., U.S.A.

A. EXECUTION

2.03 INSTALLATION

- A. Flexible coupler FJ restraint shall be installed per the manufactures recommendations.
- B. All mechanical piping systems shall be pressure tested after installation. All liquid systems shall be tested hydrostatically or pneumatically at the Contractor's option. If air pressure is used for testing, the Contractor shall be responsible for all safety precautions necessary to prevent possibility of personal injury in the event of blow off or material failure during test. All systems shall be tested at the pressure level of 75 psi or pressure of at least 150% of maximum system operating pressure, whichever is greater. After bringing the system to the required pressure, it shall be left for at least 1 hr. and shall show no loss in pressure due to leakage. If leakage is detected, the cause shall be determined and corrected, and the test shall be conducted again at the expense of the Contractor.

PART 3 MEASUREMENT AND PAYMENT

3.01 MEASUREMENT AND PAYMENT

- A. Flexible Coupler will not be measured for direct payment and will be considered subsidiary work pertaining to the contract with no direct compensation made for this work. The payment shall be included in the contract price for the work items as shown on the Bid Form.

SECTION 40 05 78.21 - SEWAGE AIR RELEASE VALVES (SARV)

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. The general provisions of the Contract, including General and Supplementary Conditions shall apply to the Work covered in this Section.
- B. Related requirements specified elsewhere:
 - 1. Trenching, backfilling and Compacting - Section 31 23 33
 - 2. Manholes and Castings - Section 33 39 13
 - 3. Sanitary Sewer Piping and Fittings – Section 33 31 00

1.02 DESCRIPTION OF WORK

- A. The Work covered by this section includes all labor, materials and equipment necessary to furnish and install the air release valves as specified herein and as shown on the plans.

1.03 SUBMITTALS

- A. The Contractor shall submit for review copies of shop drawings for materials specified herein in accordance with the requirements of Section 01 33 23.

1.04 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. The ends of all valves shall be sealed to prevent entry of foreign matter into the body.
- B. Box, crate, completely enclose, and protect valves and accessories from accumulations of foreign matter.
- C. Valves and accessories shall be stored in areas protected from weather, moisture, or possible damage. Do not store materials directly on ground.
- D. Items shall be handled in such manner so as to prevent damage to interior or exterior surfaces.

PART 2 PRODUCTS

2.01 SEWAGE AIR RELEASE VALVES

- A. Sewage Air Release Valves shall allow unrestricted venting or re entry of air through the valve during filling or draining of the forcemain, to prevent water column separation or pipeline collapse due to vacuum.
- B. The valve shall incorporate an air-gap separation between the sewage and sealing mechanism. This will be obtained by a single float or combination of floats. The float(s) shall withstand 230-psi test.

- C. All internals shall be easily removed without removing the main valve from the lines.
- D. Valve shall be fitted with blow off valves or back flush adapters with quick disconnect couplings and minimum 15 feet of hose.
- E. The valve inlet shall be 2 inch N.P.T. All fitting shall be brass or stainless steel.
- F. The body shall be cast iron conforming to ASTM A126 (GR. B), Steel DIN ST.37 or Stainless Steel SAE 316.
- G. The sewage air release valve shall be as manufactured by Valve and Primer Corporation, APCO Series 400, Model 400, A.R.I. Flow Control Accessories Model S-020, or approved equivalent
- H. Bolting: All body bolts shall be Grade 304 stainless steel. Anti-Seize shall be applied to all threads prior to installation.

PART 3 EXECUTION

3.01 INSTALLATION

- A. All valves and accessories are to be installed in locations as shown in the Drawings.
- B. The exact location is to be field determined and approved by the Engineer prior to installation.
- C. All valves and accessories shall be installed in accordance with manufacturer's instructions.

PART 4 MEASUREMENT AND PAYMENT

4.01 METHOD OF MEASUREMENT

- A. Measurement shall be made for air relief valve and appurtenances shall be on per each basis as shown in the bid form. Measurement shall include air relief valve, 12 feet of hose with quick couplers, and all fittings and appurtenances necessary to connect valve in manhole.

4.02 BASIS OF PAYMENT

- A. Payment for air relief valve shall be made at the contract unit price per each as provided in the bid form.

* * * END OF SECTION * * *