

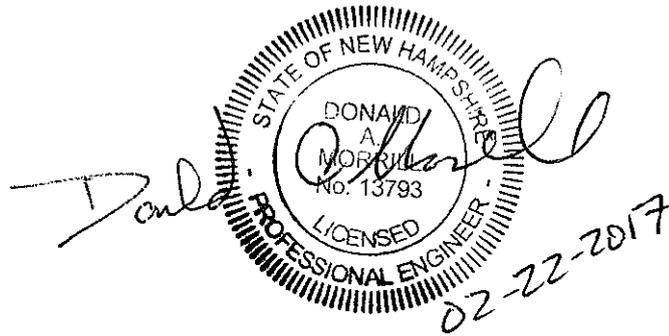
ADDENDUM NO. 4

TO

EXETER, NEW HAMPSHIRE

CONTRACT NO. 1 – WASTEWATER TREATMENT FACILITY UPGRADES

NHDES SRF PROJECT NO. CS-330130-15



FEBRUARY 2017

PREPARED BY:  
Wright-Pierce  
230 Commerce Way, Suite 302  
Portsmouth, NH 03801

## ADDENDUM NO. 4

### EXETER, NEW HAMPSHIRE

#### CONTRACT NO. 1 – WASTEWATER TREATMENT FACILITY UPGRADES

As a point of clarification, it should be understood that the Contract Documents govern all aspects of the project. Informal discussions held over the telephone and/or during the pre-bid meeting are informational only. All official changes to the Contract Documents are made only by addenda. The following changes and additional information are hereby made a part of the Contract Documents. All Bidders shall acknowledge receipt and acceptance of this Addendum by signing and sending back the confirmation page. Bids submitted without acknowledgement of receipt of this addendum may be considered non-responsive.

#### SPECIFICATIONS

1. Section 00800 – SC-20 Attachment B, Davis-Bacon Wage Rates. **DELETE** the last paragraph “If, during construction...of the Contractor.”
2. Section 02140 – Construction Dewatering.
  - a. For Part 1.1.B, **DELETE** in its entirety and **REPLACE** with the following: “B. Treatment system for construction dewatering effluent discharged to the WWTF Lagoons shall consist of a frac tank(s) sized for 60-minute hydraulic retention time to provide for sediment removal and floatable oil/grease to be trapped, separated and removed from the effluent prior to discharge into Lagoon 1.”
  - b. For Part 1.5.A.2.h, **DELETE** the phrase “settling tank and oil/water separator” and **REPLACE** with “fractionation tank”.
  - c. For Part 1.7.F, **DELETE** in its entirety and **REPLACE** with “F. Discharge of Dewatering Effluent: The Contractor shall discharge dewatering effluent from the fractionation tank into the existing WWTF Lagoon 1. Dewatering effluent into Lagoon 1 shall not cause the WWTF to be in violation of its existing NPDES permit, as determined by the Owner.”
  - d. For Part 3.6.A, **DELETE** in its entirety and **REPLACE** with “A. Construction dewatering effluent may be affected by rainfall. The Contractor shall coordinate with the Owner to redirect the discharge location of the dewatering effluent to accommodate additional flows during rainfall events.”
3. Section 02170 – Controlled Blasting and Rock Removal. **ADD** the following section immediately after Paragraph 3.4.
  - 3.5 DAMAGE TO STRUCTURES, BUILDINGS AND UTILITIES
    - A. The Contractor shall be responsible for all damages caused by blasting operations regardless of the adherence to specified vibration limits. Such damage shall be repaired by the Contractor at no additional cost to the Owner.
    - B. The Contractor shall submit proposed repairs, which shall be reviewed by the Owner and Engineer with no exceptions taken. Damages shall be defined as:
      1. Physical damage to the structure or building.
      2. Newly formed cracks in concrete or masonry.
      3. Substantial increase in width and/or length of existing cracks in concrete or masonry.
      4. Structure or building movement.
      5. Reduction in water supply well yield or water quality.
4. Section 02200 – Earthwork. For Part 2.1.C. Common Fill, **DELETE** the phrase “predominantly free from organic matter, plastic, metal, wood, cinders, asphalt, brick, concrete, trash, ice, snow, debris and other deleterious materials and weak, compressible materials” and **REPLACE** with “free from organic matter, plastic, metal, wood, cinders, asphalt, brick, concrete, trash, ice, snow, debris, other deleterious materials and weak/compressible materials”

5. Section 03440 – Precast Post-Tensioned Concrete Tanks.
- a. **DELETE** Part 2.2.H.2.a in its entirety and **REPLACE** with the following “a. Interior Joint for Rectangular Tanks shall be a liquid applied urethane coating that will provide a flexible elastomeric lining. Apply 1 coat at 100 mil DFT. CIM 1000 by C.I.M Industries or equal. Interior joint for Circular Tanks shall be a liquid applied epoxy coating. Apply 1 coat at 25 mil DFT. Sikagard 62 by Sika Corporation.”
  - b. **DELETE** Part 1.6.B.1 in its entirety and **REPLACE** with the following: “1. Base slab - The base slab shall consist of cast-in-place reinforced concrete. The design shall include either properly spaced control joints or an adequate amount of reinforcing steel for proper crack control within acceptable limits for water containing structures. Precast Concrete Tank Supplier shall be responsible for layout of control joints.”
  - c. **DELETE** Part 1.6.C in its entirety and **REPLACE** with the following: “C. Design shall comply with ACI 350 (unless otherwise indicated herein) and utilize the "Strength Design Method" (Normal Environmental Exposure Condition). Design shall also comply with PCI MNL-120.”
6. Section 02628A – High Density Polyethylene Pipe and Fittings. **DELETE** Part 2.2 Pipe Schedule in its entirety and **REPLACE** with the following:

PIPE IDENTIFICATION	DIA. (inches)	SDR	IPS/DIPS	WORKING PRESSURE RATING (PSI)	DE-BEAD REQUIRED INSIDE PIPE
FM	16	17	DIPS	125	No
LPS FM / YPS FM	6	17	DIPS	125	No
SEP FM	4	17	DIPS	125	No
PW	8	17	DIPS	125	No
LT	12	17	DIPS	125	No
W	8	11	DIPS	200	No
CW	2 & 1.5	11	CTS	200	No
FSW	6	17	DIPS	125	No

7. Section 03930 – Concrete Coatings.
- a. Part 3.7.D. Type 1 Coating. **DELETE** the manufacturer “Sauereisen”.
  - b. Part 3.7.E. Type 2 Coating. **DELETE** the manufacturer “Sauereisen”.
8. Section 08330 – Rolling Doors.
- a. Part 2.2.C **DELETE** the phrase “At stainless steel doors, hoods shall be stainless steel or aluminum.”
  - b. Part 2.2.D **DELETE** the phrase “or aluminum at stainless steel doors”.
  - c. Part 2.4. **DELETE** the phrase “(Except Stainless Steel Door)”.
9. Section 09900 – Painting. Part 3.8. Paint Schedule, **ADD** the following row under the Masonry & Concrete section:

Surface/Item	Surface Preparation	Primer	Intermediate	Finish
--------------	---------------------	--------	--------------	--------

Non-Submerged Concrete Vertical and Ceiling Surfaces	Clean, Dry and Surface Grind	Tnemec 151-1051 Elasto Grip FC at 2 to 3 mils <b>OR</b> SW DTM Acrylic Coating at 3 to 4 mils	N/A	Tnemec Series 1028/1029 Enduratone at 2 to 3 mils <b>OR</b> SW DTM Acrylic Coating at 3 to 4 mils
--	------------------------------	---	-----	---

10. Section 11215 – Line Shaft Vertical Turbine Pumps. **DELETE** Paragraph 2.2.C.3 in its entirety and **REPLACE** with “3. Constructed of high strength, close grained cast iron or ASTM A53 grade B fabricated steel and provided with a discharge elbow having a flanged outlet designed to receive a 125# ANSI A21.51 standard pipe flange.”
11. Section 11310 – Pumps General.
- Regarding PWP-2,3, Part 2.2.G.5.b.4., **DELETE** “79%” and **REPLACE** with “75%”
  - Regarding PWP-1, Part 2.2.G.9.a, **DELETE** “5HP” and **REPLACE** with “7.5HP”
  - Regarding PWP-2,3, Part 2.2.G.9.b, **DELETE** “20HP” and **REPLACE** with “25HP”
  - Regarding FSWP-1, Part 2.2.H.5.a.2, **DELETE** “100 feet TDH” and **REPLACE** with “92 feet TDH”.
  - Regarding FSWP-1, Part 2.2.H.5.a.3, **DELETE** “79.1%” and **REPLACE** with “76%”
  - Regarding FSWP-1, Part 2.2.H.9.a, **DELETE** “10HP” and **REPLACE** with “15HP”
12. Section 11317A – Recessed Impeller Pumps.
- Part 2.1.C, **DELETE** the phrase “9/16 inch of Ni-Hard” and **REPLACE** with “3/4 inch of Ni-Hard”.
  - Part 2.1.F, **DELETE** in its entirety and **REPLACE** with “All Ni-Hard shall conform to ASTM Designation A532 and be a minimum of 650 Brinell hardness for maximum wear thickness.”
13. Section 11373S – Positive Displacement Blowers. Part 2.1.A.1 **DELETE** “Maximum Permissible Speed of Blowers, rpm 6,600” and **REPLACE** with “Maximum Permissible Speed of Blowers, rpm 7,200”.
14. Section 13440 – Instrumentation and Process Control. On the Instrumentation Schedule, for Instrumentation Tag FE/FIT-117A and FE/FIT-117B, **DELETE** “NEMA 6P” in the Service Column and **ADD** “FE: Class 1 Div 2 NEMA 6P, FIT: NEMA 4X”.
15. Section 13444 – Control Panels. Immediately following Part 2.1.G.1.a **ADD** the following phrase “The Main Control Valve Panel (MCVP) and associated Valve Panels (VP-1, VP-2, VP-3) specified in section 11223C do not require the UPS, front panel data/power port, front panel lights and buttons, spare PLC and I/O modules, or the provision of enclosure for future expansion.”
16. Section 15050 – Pipe & Fittings-General. For Part 3.4 Pipe Schedule, Air/Exposed/10” to 18”, **DELETE** “11-GAUGE 304L STAINLESS STEEL” and **REPLACE** with “SCH 10S 304L STAINLESS STEEL”.

## **DRAWINGS**

- Drawing C-27. **DELETE** “24” LT and **REPLACE** with “24” EQ”.
- Drawing A-35, Door Schedules. For doors D101a, D101c, M101b and M 101c **DELETE** “See Note 5” in the Remarks column and **REPLACE** with “See Note 7”.

## **SIGNIFICANT QUESTIONS AND RESPONSES DURING THE BIDDING PERIOD**

1. Q: There is a 2" gas service shown on site piping plans to be installed by others. Is the excavation and backfill, etc. all by others complete, or is there some coordination and/ or other effort needed by GC?  
R: The entire installation of the 2" gas service will be completed by Unital. The General Contractor will only be required to coordinate the timing of Unital's work onsite.
2. Q: Who is supplying the dewatering polymer system?  
R: Per specification section 11365C, Part 2.1.D, the manufacturer is responsible for providing the sludge conditioning (polymer) system. The intent is that the dewatering centrifuge manufacturer provide a sludge conditioning (polymer) system which they have had a reliable and successful experience with.
3. Q: Who will be responsible for supplying the polymer for the dewatering centrifuge commissioning?  
R: Per specification section 11365C, Part 1.5.I "The Contractor shall supply the polymer to be used during performance testing. Polymer shall be as recommended by the Centrifuge Equipment Manufacturer for optimal performance under the intended service conditions. All supplemental polymer testing costs shall be the responsibility of the Contractor."
4. Q: Who will be responsible for the lab testing during the dewatering centrifuge commissioning?  
R: Per specification section 11365C, Part 1.5.D "All sample testing during the two-day acceptance testing run will be performed by an independent testing laboratory paid for by the Contractor."
5. Q: Regarding spare parts for the Dewatering Control Panel. The PLC specification section indicates that the manufacturers do not need to supply spare PLCs and only Division 13 panel suppliers need to provide spare PLCs. Please clarify.  
R: Correct, PLC spares are not required for Original Equipment Manufacturer (OEM) Control Panels unless otherwise noted in their respective Division 11 specification.
6. Q: Regarding specification section 11310, Part 2.2.D.12 and Part 2.2.E.8, would a double cartridge seal meet the specified seal described?  
R: Yes.
7. Q: Is it the intent to apply a full primer coat of block filler to CMU walls which are previously painted and scheduled to be repainted per the Finish Schedule?  
R: The block filler is only required at new walls or areas of existing wall that are bare down to the CMU after preparing the surface. Surface preparation for existing surfaces shall be as indicated in specification section 09900, Part 3.2 E. Previously Coated Surfaces.
8. Q: Which rolling door(s) are to be stainless steel?  
R: All rolling doors are specified to be galvanized steel per specification section 08330, Part 2.2.A. See changes to specification section 08330 above.
9. Q: Section 02140 seems to call for dewatering to be subject to testing and treatment in the event that the material contains wastewater related constituents. Further language appears to call for sedimentation controls to prevent discharge above 30 mg/l TSS, but no other treatment. Please explain what is expected to be performed in terms of treatment of groundwater in the dewatering operation.  
R: Section 02140 is not intended to require a biological or chemical treatment system. The construction dewatering groundwater shall be pumped to WWTF Lagoon 1 through a fractionation tank. Refer to adjustments to Section 02140 above.
10. Q: The last paragraph of Section 02200.2.1.H indicates that "common fill" can be placed "adjacent" to new structures as backfill. In other places of the spec it calls for the "compacted granular (select) fill" to be used beneath and to backfill buildings/ tanks. Please clarify the intent of this paragraph and explain what "adjacent" means in this case. Is it intended that "common fill" can be used adjacent to structures, but outside the defined "select fill" envelope?

R: Common fill may be used adjacent to and under slabs as shown on the Structural Backfill details on drawing S-52.

11. Q: Section 11215, 2.2.C.5 and 6. Is stuffing box or mechanical seal required? Seems like mechanical seal. Please confirm.

R: Correct, mechanical seal.

12. Q: Are the pressure tanks provided under specification section 15490 – Well Water Supply System, and shown on drawing P-4 subject to AIS requirements?

R: Yes.