



GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

IMPROVING FATS OIL AND GREASE RECEIVINGS

Project SSF 2020-03

ADDENDUM #4

February 7, 2024

BIDDERS MUST ACKNOWLEDGE RECEIPT OF THIS ADDENDUM #4 IN THEIR PROPOSAL

Bidders are hereby informed that plans and specifications for the above-mentioned project are modified, corrected, and or supplemented as follows and that Addendum #4, complete with the enclosures, becomes part of the Contract Documents.

A. RESPONSE TO BIDDER QUESTIONS:

B. RFI Issued 2-2-24

1. **Question:** Is there a special bid bond form or is AIA acceptable?
 - i. **Response:** AIA is acceptable.

C. RFI Issued 1-17-24

1. **Question:** 46 21 73 - 2.02.A – Please add the following information to the Equipment Performance Requirements for the current upgraded design for the hot water spray: “Traveling HW spray - 0.16 HP 230/460V, 3 phase, 60 hz”. Also, change the hot water requirement to” 4 gpm maximum “(currently says 33 gpm).
 - i. **Response:** The specification will be updated to address this.
2. **Question:** 46 21 73 - 2.04.C.4.d – Please replace this paragraph with the following description for the current upgraded design for the hot water spray system: “A hot water spray bar shall be located on the outside of the screen drum to clear FOG (fats/oils/greases) from drum perforations. A dual nozzle low pressure spraying system automatically traverses the length of the screen via a 0.16 HP TEFC motor suitable for 230/460/3/60 electrical supply. Two (2) limit switches shall be provided to detect the position of the traveling spray nozzles and one (1) solenoid shall be provided to control the hot water supply. Hot water to be 120°F (supplied by others). Systems requiring more than 4 gpm of hot water (120°F) or pressure above 40 psi shall not be allowed.”
 - i. **Response:** The specification will be updated to address this.
3. **Question:** 46 21 73 - 2.04.C – Please add the following verbiage for the (now standard) design upgrade for an auto-greasing system:

“OPEN GEARING AUTOMATIC GREASE LUBRICATION SYSTEM



- The perforated drum drive system will be provided with a factory mounted automatic grease lubrication system that will spray a precise amount of lubricant directly to the loaded profiles of the drive gear teeth.

- The automatic grease system shall be air driven and controlled from the control panel to signal the pump to supply the open gear lubricant to a positive-displacement metering valve. The metered lubricant is sent to a spray manifold where the open gear lubricant is directed to a set of nozzles. The pressurized air (1.5 cfm at 80-120 psi – provided by others) blows the open gear lubricant out of the nozzle and onto the open gearing. After a predetermined amount of open gear lubricant is dispensed, both the air system and the pump shut off until the next lubrication cycle.

- System will consist of a ½ gallon grease reservoir, two (2) air regulators, a 3-way 120-volt NEMA 4X brass body solenoid valve, dual feed positive-displacement metering valve with flexible nozzles and necessary tubing and fittings.”
 - i. **Response:** The specification will be updated to address this, the air compressor will be provided by the manufacturer mounted to the screening unit.
- 4. **Question:** 46 21 73 – 2.04.C – Drawing D-63-304, Note 8 indicates that a bagger is to be included but is not described in this specification. If a bagger is desired, please add the following: “Discharge Bagging Device - The end of the discharge pipe will be equipped with a type 316 stainless steel transition piece and continuous bagging device to capture the dewatered screenings. The bagging device shall be supplied with a replaceable magazine of continuous plastic hose 22-inch diameter by 260 feet long, 1.5 mm thick.”
 - i. **Response:** The specification will be updated to address this.
- 5. **Question:** 46 21 73 – 2.05.A.10 – Please delete this paragraph as these are no longer included in the standard design. Overload protection is provided with the drum drive soft starter and the motor overloads.
 - i. **Response:** The specification will be updated to address this.
- 6. **Question:** 46 21 73 - 2.05.G – Please advise if the enclosure for the Remote Indication Station should be 316SS to match the rest of the unit and main control panel enclosure, rather than 304SS as indicated here.
 - i. **Response:** The specification will be updated to address this.
- 7. **Question:** 46 21 73 - 2.07.A – Paragraph “2.03.C Design Requirements” is not included in Section 46 21 73. Please advise if there is a different paragraph we should reference instead.
 - i. **Response:** The specification will be updated to address this.
- 8. **Question:** 46 21 73 – 2.08.A – Section 40 61 96 referenced in this paragraph has not been provided. Please advise if this should be Section 40 61 13.01 - 3.05 instead.
 - i. **Response:** The specification will be updated to address this.



9. **Question:** 46 21 73 – 3.03.A - Section 01 45 20 referenced in this paragraph has not been provided and Form 01 45 20-A describes pump testing. Is there a different section we should reference for the FOG receiving unit testing instead?
 - i. **Response:** The specification will be updated to address this.
10. **Question: Plan Sheets** Dwg D-63-102 – Please advise if the Remote Indication Station (Tag VCP-120) is located in the shade.
 - i. **Response:** VCP-120 will not be in the shade.
11. **Question: Plan Sheets** Dwg D-63-304 – Please confirm that the items listed in Notes 1, 4, 5 and 7 are to be provided by others and not by the manufacturer. These items are not included in the Equipment Spec 46 21 73.
 - i. **Response:** This is correct, items listed in Notes 1, 4, 5 and 7 will be provided by the General Contractor.
12. **Question:** Dwg I-63-101 – Please confirm that the inlet pinch valve (Tag V-100) is to be supplied by the manufacturer as it is included in the Equipment Spec 46 21 73, though depicted here as outside the manufacturer’s scope of supply.
 - i. **Response:** This is correct, the inlet control valve will be supplied by the manufacturer.
13. **Question:** Dwg I-63-101 – Please add the new hot water travelling spray motor, limit switches and solenoid valve as well as the auto-greaser solenoid valve and compresses air supply (by others) to this P&ID.
 - i. **Response:** These items are updated in the specification, the P&ID will be updated as part of the Conformed Drawings to include these items.

D. RFI 2 Issued 1-17-24

1. **Question:** General Conditions, section 107-06 (Insurance) – Confirm the Owner is providing Property Insurance on the work and that the policy will be written as an All Risk policy.
 - i. **Response:** The Owner will be providing property insurance for the work.

E. SPECIFICATIONS:

1. **46 21 73 Fog Screening Equipment:**
 - i. add the following to the table in 2.02.A:
 - a. **Traveling HW Spray 0.16 HP 230/460V, 3 phase, 60 hz**
 - ii. Replace the hot water requirement in the table in 2.02.A:
 - a. **Maximum Available Spray Wash – Hot Water (gpm/psi) 4/40**
 - iii. Replace 2.04.C.4.d with the following:
 - a. **A hot water spray bar shall be located on the outside of the screen drum to clear FOG (fats/oils/greases) from drum perforations. A dual nozzle low pressure spraying system automatically traverses the length of the screen via a 0.16 HP TEFC motor suitable for 230/460/3/60 electrical supply. Two (2) limit switches shall be provided to detect the position of the traveling spray nozzles and one**



(1) solenoid shall be provided to control the hot water supply. Hot water to be 120°F (supplied by others). Systems requiring more than 4 gpm of hot water (120°F) or pressure above 40 psi shall not be allowed.

iv. Add the following as 2.04.C.8:

a. OPEN GEARING AUTOMATIC GREASE LUBRICATION SYSTEM

- a. The perforated drum drive system will be provided with a factory mounted automatic grease lubrication system that will spray a precise amount of lubricant directly to the loaded profiles of the drive gear teeth.**
- b. The automatic grease system shall be air driven and controlled from the control panel to signal the pump to supply the open gear lubricant to a positive-displacement metering valve. The metered lubricant is sent to a spray manifold where the open gear lubricant is directed to a set of nozzles. The pressurized air (1.5 cfm at 80-120 psi, provided by a 120V compressor mounted to the screening equipment) blows the open gear lubricant out of the nozzle and onto the open gearing. After a predetermined amount of open gear lubricant is dispensed, both the air system and the pump shut off until the next lubrication cycle.**
- c. System will consist of a ½ gallon grease reservoir, two (2) air regulators, a 3-way 120-volt NEMA 4X brass body solenoid valve, dual feed positive-displacement metering valve with flexible nozzles and necessary tubing and fittings.**

v. Add the following as 2.04.C.9:

- a. Discharge Bagging Device - The end of the discharge pipe will be equipped with a type 316 stainless steel transition piece and continuous bagging device to capture the dewatered screenings. The bagging device shall be supplied with a replaceable magazine of continuous plastic hose 22-inch diameter by 260 feet long, 1.5 mm thick.**

vi. Delete 2.05.A.10 in its entirety:

vii. Replace the “304 stainless steel” in 2.05.G with “316 stainless steel”.

viii. Replace 2.07.A in its entirety with the following:

- a. Electric motors shall conform to the requirements of 26 05 00.01.**

ix. Replace 2.08.A in its entirety with the following:



- a. See Section 40 61 13.01 for pumping equipment and system control strategies.**
- x. Replace 3.03.A in its entirety with the following:
 - a. Comply with procedures described in Section 01 91 00.**

END OF ADDENDUM 4

ENCLOSURES:

- None