



**ADDENDUM NO. 2
TO THE
CONTRACT DOCUMENTS**

FOR

**HILLCREST AND DONLON
BOOSTER PUMPING STATION IMPROVEMENTS
ANTIOCH, CALIFORNIA
P.W. 477-BP2**

**ISSUED
September 25, 2020**

This Addendum No. 2 must be signed by the bidder and attached to the CONTRACT PROPOSAL PACKAGE for consideration by the City. The City reserves the right to disregard any proposal which does not include this Addendum. The City may waive this requirement at its sole discretion.

SEE ATTACHED ADDENDUM ITEMS

Approved By: _____

Scott Buenting, P.E.



BIDDER'S CERTIFICATION

I acknowledge receipt of this Addendum No. 2 and accept all conditions contained herein.

Bidder: _____

By: _____

ADDENDUM NO. 2

Hillcrest and Donlon Booster Pumping Station Improvements P.W. 477-BP2

Issued September 25, 2020

SELECTED RESPONSES TO REQUESTS FOR INFORMATION

- a. Question: Plan Sheet #5 has both General Notes and Key Notes that refer to the Contractor verifying information which is not provided by the contract documents requiring the Contractor to physically visit the site. How can we get the missing information without visiting the site?

Answer: As announced in Addendum 1, pre-bid site visits were held on September 22, 2020 at Hillcrest BPS and Donlon BPS.

- b. Question: Section 33 01 30.78 – Highlining and 01 14 00 – Work Sequence make clear that a bypass pumping system will be required for the Hillcrest pumping equipment replacement but does not provide any details or design parameters for sizing the bypass pumping system. Please advise.

Answer: Bypass system shall meet the capacity of the Hillcrest BPS (2,500 gpm at 94 ft TDH). Per Section 33 01 30.78, Contractor shall submit plans for bypass pumping that are prepared and stamped by a Registered Professional Engineer in the State of California. Contractor shall be responsible for ensuring bypass components are sized to meet design flow requirements.

- c. Question: Please provide the water flow/pressure and incoming water temperature to allow sizing of the cooling system for the generator at the Donlon site?

Answer: The design assumes that Contractor is to replace the generator equipment and ancillary devices in-kind. For sizing purposes, Contractor should assume incoming water at 50 pounds per square inch gage pressure and 82 degrees F temperature.

- d. Question: Drawing C-01-02 indicates we are to provide a new hatch at the flow meter vault. This appears to be cast into a concrete utility vault top. Are we attaching new hatch leaves to the existing embedded frame or demolishing concrete and recasting a new hatch and frame? What is the size of this hatch?

Answer: For bidding purposes, the size of the flow meter vault at the Hillcrest BPS should be assumed to be 6 feet wide and 10 feet long. Contractor shall verify dimensions of existing flow meter vault prior to providing submittal for hatch. Contractor should assume that it will require concrete rework around the existing vault opening, to accommodate installing a new aluminum frame.

- e. Question: Drawing C-01-102 indicates to replace an existing exhaust fan. Please provide a model or a spec.

Answer: Exhaust fan shall be curb mounted per Detail C/D-00-502, minimum 1/6-

horsepower, 1000 scfm, direct-drive, axial-flow/propeller fan, with galvanized steel blade, spun aluminum cap and bird-screening, 120V single phase, Continental Fan RMD-10-11 or approved equal.

- f. Question: Section 33 01 30.78 – Highlining reads as if the bypass pumping system is to be staffed per 1.03.A.6 and that the Contractor must be qualified to maintain the potable water system per 1.04.A.1 and 2. Please clarify these requirements.

Answer: The bypass pumping system shall have two equally sized pumps that in combination can deliver 2,500 gpm. Contractor shall set one pump to run continuously unless Owner's staff directs Contractor to stop pumping. Contractor shall start and stop the second pump as directed by Owner's staff. The bypass pumping system shall include controls that notify contractor of a pumping failure, at which point Contractor shall notify Owner's staff and take action to correct pumping system.

- g. Question: East Elevation Note 2 on S-01-101 indicates we are to scan the walls for rebar and report to the Engineer what we find. Please confirm there is no work, other than the scanning, that needs to take place in this area.

Answer: The retrofit measures assume that the door jambs are reinforced with continuous reinforcing from the foundation to the top of wall as shown in the elevation. The Contractor shall scan the door jambs to confirm the reinforcing and report the results to the EOR. If continuous reinforcing is provided as anticipated by the elevation, then no additional work will be required. If the reinforcing is non-existent, or is not continuous, then the EOR will likely add a steel angle(s) at the jambs on the inside of the building with ½" diameter expansion anchors at 2'-0" o.c. (or similar).

- h. Question: Does the pump at Hillcrest BPS need to meet NSF 61?

Answer: Yes. The pump, piping and appurtenances must meet NSF 61 requirements.

- i. Question: Is the electrical specifications for the pump at Hillcrest BPS correct in sizing for 60hp?

Answer: Yes, three at 60 hp and one at 40 hp – see Section 43 23 75.

- j. Question: Section 40 61 13 - Process Control System General Provision, paragraph D and E.3.b – Please provide who the City's chosen system integrator is.

Answer: The Control System Integrator has not been selected. Refer to Addendum 1 for updates to the referenced specification sections.

- k. Question: Section 26 32 13.14, paragraph 3.02.H.1 states to provide a full tank of diesel fuel when the generator testing is completed. The existing underground fuel tank that remains is shown as a 2,500 gallon capacity. Is the intent to assume this fuel tank will be empty at the time of construction and the full capacity of 2,500 gallons is to be supplied?

Answer: Contractor shall provide a full tank (i.e., full capacity) after the final testing has been completed and accepted. Contractor should assume that the existing tank is empty when construction commences.

- l. Question: Drawing C-01-102 indicates to match existing chain link fence. There appears to be slatted and non slatted chain link fence at the Hillcrest site. Please confirm if we are to provide slatted fencing.

Answer: Contractor shall assume slatted fencing.

- m. Question: Detail A on Drawing D-00-502 indicates that we are to replace the existing meter with a new flanged flow meter. It also indicates that we are to remove and replace the existing blind flange with a stainless steel blind flange. If we are replacing with a flanged meter, is there a need to replace this blind flange?

Answer: Replace the existing blind flange with a new SST blind flange, with flanged opening, appropriately sized to accept the new flow meter.

- n. Question: Section 40 05 02.23, page 2, "External Coating" requirements show the finish coat on steel piping being factory applied. This is typically done in the field. Please advise.

Answer: Newly fabricated steel pipe and fittings within the BPS shall be fusion-bonded epoxy lined and coated, followed by field applied Coating System E-1 for color as selected by Owner. Contractor shall field apply coating system E-1 to existing pipe within the BPS that remains in place and to new valves. Prior to coating application, Contractor shall prepare surface and apply primer per coating system manufacturer's requirements. Acceptable coatings shall be as defined in Section 09 90 00. Contractor shall provide Owner with color chips from which Owner will select the top-coat color.

- o. Question: Section 40 05 02.23 lists cement mortar lining, liquid epoxy and fusion epoxy as lining materials on the steel 1W piping. Please confirm which is required.

Answer: See Answer "n" above.

- p. Question: Section 40 05 02.23 indicates three different options for the external coating on the steel 1W piping. Please confirm which is required.

Answer: See Answer "n" above.

- q. Question: Is this project subject to the Buy America or Buy American material requirement for steel product?

Answer: No, the project is not subject to Buy America or Buy American material requirements.

- r. Question: Plan sheet C-01-102 shows the fence – are any new gates to be installed?

Answer: Yes

- s. Question: Can you confirm the height of the new fence?

Answer: 6 feet

- t. Question: Is there a specification for the 16" control valve (existing MPP vault, Drawing D-00-502)? Is this an owner furnished valve replacement?

Answer: No specification, just a model number per drawing. Contractor will provide the replacement valve and operator.

- u. Question: Drawing E-02-101, Standby Engine Generator Piping Schematic shows a new Leak Detection Alarm Panel as well as Detection Probe. These devices are not shown anywhere else in the documents. Specification 26 32 13.14 shows the leak detection system being supplied by the generator supplier.
 - i. Where is the location of the new panel?
 - ii. Do we need to add additional wiring in the conduit with the low fuel level wiring from the tank to the PLC shown on drawing E-02-602?
 - iii. Does the wiring from the alarm panel report to the PLC or the Generator Control Panel?

Answer: (i) The location of the new leak detection panel shall be the same as it is now with the existing leak detection panel, i.e. the south-east corner of the generator room (reference Donlon as-built drawing M1). (ii) Contractor to replace the existing (old) wiring for the new leak detection panel. There is an existing fuel oil tank leak discrete input shown on the Donlon as-built drawing E5, suggesting this signal exists but needs to be replaced with new control wiring (#14 AWG) to the PLC. (iii) Please refer to San Joaquin Electric - RFI No. 1, Question 2 response above.

- v. Question: Specification division A, Section A2, Work to be performed at Hillcrest BPS calls for the existing flow meter to be recalibrated. Detail A/D-00-502 shows to remove and replace the existing flow meter. Please clarify these conditions as it appears there's a discrepancy.

Answer: Contractor shall provide a new flow meter.

- w. Question: There are two Section 1s displayed on Drawing S-02-101. Please clarify.

Answer: The Section 1 cuts on the plan correspond to the Section 1 at the top right corner of S-02-101. Section 1 shown at the bottom of the page applies to the bracing for the exhaust flue located above the generator.

- x. Question: We received an email from Energy Systems that went to the jobsite visit yesterday. He is telling me that the design of the generator with the heat exchanger does not meet the requirements of NFPA 110. A generator with a heat exchanger is required to be a closed loop system and they don't have it designed that way. He is offering up a couple solutions,
 - i. Use of a remote radiator
 - ii. Cutting a square opening through the block wall for air circulation and leaving the radiator on the generator

This will have to be rectified for us to bid this project.

Answer: The proposed heat exchanger attached to the Donlon BPS standby generator will satisfy NFPA 110. The engine will circulate its coolant through a closed loop through the heat exchanger and return to the engine. At the heat exchanger potable water operating in an open loop will cool the coolant.

- y. Question: Is there a concrete specification for this project? If so, where is it?

Answer: No. See concrete mix and strength requirements on Drawing S-01-001.

- z. Question: Section 01 11 00 – Summary of Work does not include any reference to bypass pumping. If bypass pumping is required, can your office provide the parameters and requirements for the bypassing? Section 33 01 30.78 provides none of the info required except for references to pressures.

Answer: See Answer “b” above.