IFB NO. 500630-FY19-32
WATER FILTRATION PLANT FINISHED WATER VFD REPLACEMENT

ADDENDUM NO. 2

FEBRUARY 13, 2019

Please note the following responses to the questions received:

Question 1: Specification Section 2.01-C: Danfoss requests to be added via addendum to the list of named manufacturers. Danfoss has a 50 year history of producing quality VFD's and is currently the second largest VFD manufacturer in the world. The VFD's for this project would be built, tested, and supported out of the Loves Park, IL factory.

Response 1: The Town and the Engineer would consider alternative VFD manufacturers, over and above those listed in the Contract Specifications. The named manufacturers were reviewed/assessed during design. Given the project is currently advertised for bid, a final decision on whether Danfoss has a unit that fully meets the specifications cannot be made at this time. However, potential VFD suppliers, not specifically named in the specifications, could include a Compliance, Deviations, and Exceptions letter with the construction phase submittals (i.e. shop drawing submittals) as described in Specification Section 16000.

Question 2: Specification Section 2.03-B & 2.08-H: VFD Manufacturer requests ability to offer other harmonic mitigating technologies in addition to specified 18 pulse to meet the harmonic suppression requirements of 2.08. Other technologies such as active and passive type filters provide better harmonic performance at varying speeds. Furthermore, other technologies allow for smaller enclosures with less components.

Response 2: The base bid shall assume all equipment meets the 18 pulse requirements. Consideration can be given to alternative harmonic mitigating technologies to meet the harmonic suppression requirements of 2.08 during construction, as a part of the shop drawing review process. At such time, the Contractor must submit information on alternative technologies and associated credits for Town consideration, if applicable.

Question 3: Specification Section 2.06-B: Bypass starter is referenced, but not shown in drawings and not included in existing VFD's. Please remove all references to bypass starter if it is not required. If by chance the bypass starter is required, please provide detailed drawings and specifications of bypass requirements.

Response 3: Bypass starters are not required for this project. Bypass starter references shall be removed.

Question 4: Specification Section 2.08-B-1: Recommend defining operating speed range of pumps and requiring maximum allowable distortion over the complete operating speed range.

Response 4: The design intent is for a minor turn down in pump speed. The Contract Specifications cover the allowable distortion for this range.

Question 5: What are the dimensions of the contract slab that the existing VFD's are mounted on?

Response 5: The existing concrete slab is approximately 9-inches thick. The existing VFD's are mounted to a concrete pad that is mounted ontop of the concrete slab. The existing concrete pad extends the entire length of the room and approximately 4-inches out from the face of the existing VFD's.

Question 6: Specification Section 2.01 C.: There are three different VFD's mentioned in the specification [Allen-Bradley Powerflex 755, ABB ACH-550, and Cutler-Hammer CPX9000, or equal]. These are three entirely different types of units. The Allen-Bradley is a 6-pulse Industrial Power Unit, The ABB is a 6-Pulse HVAC Offering, and the Cutler-Hammer is an 18-Pulse Assembly. Specification Section 2.03 B.: Requires an 18 Pulse "Front End". If you could simply state your goal for the VFD [example <6% THD at the VFD Input Terminals], it would ensure every manufacturer was offering the capabilities you desire, regardless of the technology used to attain that goal.

Response 6: Please refer to the response to Question 2.

Question 7: Our company may be interested in providing a bid for this project. What is the schedule? Start and completion dates?

Response 7: As outlined in the Bid Documents, substantial completion shall be achieved within 210 calendar days from the Notice to Proceed date. Final completion shall be achieved within 30 calendar days from Substantial Completion. The Notice to Proceed Date is a mutually agreed date between the Town and the awarded bidder (Contractor) and is usually issued within 30-60 days from the date of a fully executed contract.

For the Town of Leesburg,

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