

**ADDENDUM NO. 3**

**April 20, 2018**

**Engineer:**

Parametrix  
1019 39th Avenue SE, Suite 100  
Puyallup, Washington 98374

**Owner:**

Tulalip Indian Tribes  
8802 27th Avenue NE  
Tulalip, WA 98271-9694

**MBR TREATMENT FACILITY UPGRADE**

To: All Holders of the Bidding Documents, Contract Specifications, and Construction Drawings

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents, Contract Specifications, and Construction Drawings for the opening date of April 18, 2018.

Acknowledge receipt of this addendum on the Bid Form. Failure to do so may subject the Bidder to disqualification. This addendum consists of:


6 Pages of text (including this cover sheet)

0 Supplemental Drawings

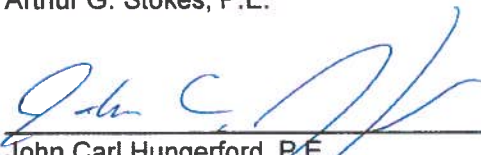
Prepared by:

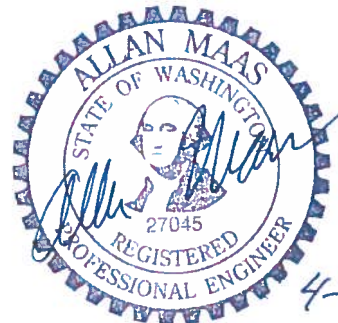
  
Allan C. Maas, P.E.

Checked by:

  
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Approved by:

  
John Carl Hungerford, P.E.



**ADDENDUM NO. 3**  
**MBR TREATMENT FACILITY UPGRADE**  
**REVISIONS TO CONTRACT DOCUMENTS**

**VOLUME 1 OF 3**

**BIDDING REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF CONTRACT**

**1. Notice to Bidders**

- a. Replace the three Notice to Bidders pages with those included in this Addendum.

**2. Instructions to Bidders**

- a. On page IB-3, delete paragraph 1.1.7.4.1.
- b. On page IB-3, replace paragraph 1.1.7.4.2 with the following:

"The total value of NAOB contracted work shall be a minimum of thirty percent (30%) of the total bid proposal price, and the total value of the Tulalip Tribal Members NAOB contracted work shall be a minimum of twenty-five percent (25%) of the total bid proposal price."

**VOLUME 2 OF 3**

**TECHNICAL SPECIFICATIONS**

**1. Specification Section 26 29 23**

- a. Delete text in paragraph 2.04 A. 8. and replace with: "A harmonic analysis of the system shall be made consisting of the current and voltage harmonics expected from the addition of the adjustable frequency drives and active harmonic filters for all harmonics through the 25th per Tables 10-2 and 10-3 of IEEE 519-1992. This analysis shall be included as part of the bid submittal. If IEEE 519 requirements cannot be met, ~~either an 18-pulse rectifier with an integral pre-wired phase-shifting transformer for each drive or an active harmonic conditioner (filter) for the project shall be required as part of this specification.~~"
- b. Delete text in paragraph 2.05 B. and replace with: "Operation: Accomplish speed control by adjusting the output frequency and voltage according to the desired reference speed. Adjust ac voltage and frequency simultaneously to provide the constant volts/Hertz necessary to operate the motor at the desired speed. ~~The VFD must use pulse width modulation (PWM) technology.~~ The drive must switch the input power and shall not include a DC bus for drives equal to and over 50HP"

- c. Delete text in paragraph 2.05 C. 6. and replace with: "No VFD regeneration capability is required."
- d. Add the following paragraph: "2.05 E. 9. VFD shall be a Yaskawa Industrial Matrix Drive Model U1000 for loads equal to or over 50 HP and all drives less than 50 HP shall be Yaskawa Model A1000. All drives shall include Allen Bradley EtherNet/IP protocol communication add-on cards."
- e. Delete text in paragraph 3.02 A. and replace with: "Provide a minimum of two site visits and a minimum of 16 hours of services at the job site by a factory-trained service technician to certify installation, make final adjustments to equipment, and carry out operational testing in the presence of the Engineer. Testing to include checks for all fault parameters, all normal operational indications, permissives, interlocks, operational sequences, back-up sequences, remote and local controls, alarm logging, and start-up modes. Both General Electrical as well as Yaskawa factory trained service technicians shall be required for startup."