UV Advanced Oxidation Treatment,
Jim Blanchard & Clarks Hill WTP
Bid# 2021008-BID5100

Addendum #3

This addendum forms a part of the Contract Documents and modifies the original drawings and specifications. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

Clarifications

1. Can you confirm that the Blanchard Plant Side A – UV Building needs Single Ply Membrane Roofing on top of the concrete roof? If so, can you provide a detail? Roofing detail for Side B (Drawing 3G3) applies to Side A.
2. The specifications (1500-5) make reference to the "Owner's security program". What provisions is the contractor required to make such as security guards, cameras, etc. The sites are fenced. Blanchard is operated 24/7 with an automatic gate to restrict entry. Clarks Hill is operated one shift per day with a lockable gate. The owner is not responsible for security of tools and equipment. The contractor should make arrangements they feel necessary to lock or secure tools and equipment.
3. The specifications (1500-6) make reference to a temporary dirt area for parking adjacent to the plant site. Where is this located? This is a generic statement letting the contractor know the owner will have parking for personnel.
4. The specifications (2200-4) make reference to offsite disposal for unsuitable/excess material. The spec seems to suggest the site could be by the owner. Is the location known or will the contractor be required to have a designated area? The contractor may temporarily stockpile or spread and compact excess material or unsuitable material on site. One location is to the south west of UV Building "B". In the event the material is pread and left in place, the contractor shall be responsible for all necessary erosion and sediment control measures to include temporary and permanent grassing.
5. Specification (2205-6) - Please clarify bedding material for all pipe is 57 for rigid piping and 67 stone for flexible piping. We cannot find this reference as listed; however **ALL** bedding material for underground pipe shall be #57 stone or #89 stone.
6. Specification (2205-6) - The spec calls for unsuitable material to be replaced with 57 stone. Is there a bid item for this? No separate bid item.
7. Specification 2500-2 calls for asphalt to be 6" stone base, 2" binder, and a 1.5" surface. The same spec (2500-3) states 2.5" Intermediate, 1.5" surface. The patching calls for 6" stone base with 1.5" surface. Please clarify what is required for asphalt (new and patching). **CHANGE** 3.4A to read: Areas required to be

paved shall receive a 2" binder course and a 1 ½" surface……. All patching will be the same as new installation.

8. Specifications (2667-4) calls for ductile iron pipe pressure classes 4"-12" to be 350, 14"-36" to be 250. What is the pressure class for piping greater than 36"? All ductile iron pipe 36" and larger shall be 150 pressure class.
9. Specification (2667-4) states payment for fittings will be based on weight. Please clarify. No separate bid item.
10. Drawing 1M2 - Please clarify the type of material for the 12" air line and provide a specification. POLYVINYL CHLORIDE (PVC) PIPE (Dilution Blower):

    Pipe and Ducts: Polyvinyl chloride (PVC) pipe shall be extruded, using Type I, Grade I PVC compound conforming to ASTM D-1784 Designation 12454. PVC pipe shall be schedule 80 conforming to ASTM Specification D-1785. All piping above ground exposed to sunlight shall be grey and UV resistant.

    Fittings shall be PVC, Schedule 80 socket or threaded fittings for Schedule 80 pipe. Socket to thread adapters shall be used for connecting to threaded fittings. Threaded fittings shall be used for Schedule 80 piping above ground. Socket type PVC fittings shall conform to ASTM D-2467; solvent cements shall conform to ASTM D-2564.

    Connections to Equipment: Piping connections to all machinery, equipment and meters shall be made with flanged or union fittings to facilitate removal of the equipment.
11. Is stone required under the building slabs and if so how much and what type? Yes, See Dwg 1S1 "Typical Slab Detail"
12. The drawings show demolition of existing piping but there is no callout for what is required to isolate the piping nor sequencing. With no provisions noted/required, it is assumed the plant can isolate the piping and the contractor can demolish and rebuild the new pipe routing without restriction. Please confirm. There are valves that can isolate the piping for demolition. This can be accomplished by the county. There are restrictions that define when the plant will allow shutdowns to perform demolition and construction of work. Please see Specification Section 01010 – Summary of Work 1.2.A. See also note 2 on Dwg 2M2 and 02667-14 for additional information.
13. With there not being geotech reports for the site, is there going to be a rock item added to the bid form to cover the unknown rock if encountered? If not, can a site visit with exploratory dig be performed on the site? Please provide contact information for this person to coordinate an exploratory dig. No, based on previous construction projects on each site we do not expect to encounter rock. We will address any unexpected items as encountered.

14. Can door manufacturers Edgewater & Special Lite be approved to provide FRP doors? The existing facilities have Chem-Pruf doors and the intent of the drawings and specifications are to match what is existing.
15. Regarding the Clarks Hill site's UV Treatment Building, the limits of disturbance are very close to the new structure, which would require shoring of the excavation. Please confirm these limits of disturbance are accurate and the excavation cannot be open cut. Can the clearwell structure be self-supporting if dirt is removed from the structure to accommodate excavation of the new UV structure? Open cut is acceptable on three sides. Side against clearwell is self-supporting. Disturbance limits can be increased and should remain less than one acre.
16. Substitution request because we have several qualified contractors that want to use Johns Manville. Johns Manville TPO is just as equal, if not better (especially in thickness over scrim) and has been installed on numerous buildings in the surrounding Columbia County area. (emailed to EOR on 02.26.21) John Manvile is an acceptable supplier for TPO. Must meet requirements of project Specification 07530, Single Ply Membrane Roofing.
17. Geotech reports were added per Addendum #2, but only for the Jim Blanchard site. Are there geotech reports available for the Clarks Hill site as well? (submitted 2x) Geotech reports are not available for the Clarks Hill site.
18. Per addendum #2 "additional yard valves" sketch, what type of valve will replace the existing 36" BFV near existing clearwell #3. The new 36" valve shall be a gate valve (GV) in the vertical position.

SPECIFICATIONS

13216 Chemical Storage Tanks

Page 13216-4 –2.1.A - **REPLACE** with "The single wall tank shall be a 1.9 specific gravity design Linear HDPE Tank."

2.1.C – **REPLACE** with "Tank shall be manufactured by Snyder Industries Part Number 5190000N45, PolyProcessing, or approved equal."

DRAWINGS

Dwg 3E2 – **CHANGE** Homerun for HVB-9 from ¾"C., 3#12 **TO** ¾"C., 4#12

CHANGE Homerun for HVB-10 from ¾"C., 3#12 **TO** ¾"C., 4#12

Dwg 4S9 – **CHANGE** concrete tank pedestal diameter from 8'0" **TO** 9'6".

CHANGE interior height of Chemical containment wall from 2'-6" **TO** 2'-9".

Dwg 4M2 – **ADD** Note 2: **PROVIDE** sump pump in sump on south corner of building. Pump shall be capable of 29 GPM at 20' of Head, 1/3 H.P., 120 Volt, 1 ½" diameter discharge, automatic operation. Sump pump shall be Zoeller Model BN151 or equal. Discharge will tie into 4" PVC drain shown on drawings. Encase end of drain at daylight in concrete and match slope of ground. Paint concrete encasement yellow.

Dwg 4E2 - **CHANGE** Homerun for HVC-9 from ¾"C., 3#12 **TO** ¾"C., 4#12

CHANGE Homerun for HVB-15 from ¾"C., 3#12 **TO** ¾"C., 4#12

PROVIDE homerun from sump pump in south corner of lower level ¾"C., 3#12 to Panel LVC-11. Add motor rated disconnect at sump pump.

Dwg 4E4 – **ADD** 20 Amp/1 Pole breaker to LVC circuit 11.

END OF ADDENDUM