ADDENDUM NO. 5
NEW WATER TREATMENT PLANT CLARIFIER
PROJECT NO. 24-01

February 21, 2024

Bids for the construction of the Project will be received at the **Town of Emmitsburg** located at **300A South Seton Ave., Emmitsburg, MD 21727**, until **Wednesday**, **February 28, 2024** at **4:00 P.M.** local time (EST). The time and date of receipt by the Owner shall be stamped or handwritten on the outside of the bid proposal package by the Owner upon receipt. Bids shall remain unopened until Thursday, February 29, 2024 at 11:00 A.M. At that time the Bids received will be **publicly** opened and read.

The Project includes the following Work:

Furnishing all labor, materials, equipment and performance of work for construction of the new Water Treatment Plant Clarifier.

Owner anticipates that the Project's total bid price will be approximately $2.0 Million - $2.5 Million.

The Project has an expected duration of 360 days.

A non-mandatory Pre-Bid Conference was conducted for the New Water Treatment Plant Clarifier project on January 24, 2024 at 10:00 AM, at the water treatment plant located at 8585 Crystal Fountain Road, Emmitsburg, Maryland. Several questions were presented at the meeting and will be answered in subsequent addenda as the questions are officially received in writing.

Revisions to Specifications:

Section 03300, Cast-In-Place-Concrete, DELETE Section 3.13 – FIELD QUALITY CONTROL and REPLACE with revised Section 3.13 – TESTING AND FIELD QUALITY CONTROL as follows:

3.13 TESTING AND FIELD QUALITY CONTROL

A. General - Concrete materials and operations will be tested and inspected as the work progresses. Failure to detect any defective work or material shall not in any way prevent later rejection when either such defect is discovered, nor shall it obligate the Owner for final acceptance.

B. Testing Services - The following testing services shall be performed by the designated testing agency:

1. Perform compressive strength, slump and air content tests of the concrete during construction in accordance with the following procedures:

a. Secure composite samples in accordance with ASTM C172. Each sample shall be obtained from a different batch of concrete on a random basis, avoiding any selection of the test batch other than by a number selected at random before commencement of concrete placement.

b. Mold and cure one set of ten-cylinder specimens from each sample in accordance with ASTM C31. Any deviations from the requirements of this standard shall be recorded in the test report. Specimens shall be 6-inch diameter by 12-inch high cylinders.

c. Of each set of ten cylinders, laboratory cure five cylinders and field cure five cylinders. Test field and laboratory cylinder specimens in accordance with ASTM C39. Test 2 of each cylinder at 7 days; test 2 of each cylinder at 28 days. Hold the remaining cylinder for testing in the event that any of the other cylinders are damaged prior to testing. The acceptance test results shall be the average of the strengths of the two cylinders tested at 28 days. If one cylinder in a test manifests evidence of improper sampling, molding or testing, it shall be discarded, and the strength of the remaining cylinder shall be considered the test result. Should both cylinders in a test show any of the above defects, the entire test shall be discarded.

d. Make at least one strength test for each 50-cu. yd., or fraction thereof, of each mixture design of concrete placed in any 1 day. When the total quantity of concrete with a given mix design is less than 20 cu. yd., the strength tests may be waived by the Engineer if, in the Engineer's judgment, adequate evidence of satisfactory strength is provided, such as strength test results for the same kind of concrete supplied on the same day and under comparable conditions to other work or other projects.

2. Determine slump of the concrete at point of placement for each composite sample for each strength test and whenever consistency of concrete appears to vary, using ASTM C143.

3. Determine air content of the concrete sample for each strength test in accordance with ASTM C231, ASTM C173, or ASTM C138. One test for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform a minimum of one test per 50 CY of concrete placed.

4. Determine temperature of the concrete sample for each strength test. ASTM C1064: one test hourly when air temp is 40 deg F and below and when 80 deg F and above.

5. High Range Water Reducer (Superplasticizer) Admixture Segregation Test: Test each truck prior to use on job.

a. Segregation Test Objective: Concrete with 4-inch to 8-inch slump must stay together when slumped. Segregation is assumed to cause mortar to flow out of mix even though aggregate may stay piled enough to meet slump test.

b. Test Procedure: Make slump test and check for excessive slump and observe to see if mortar or moisture flows from slumped concrete.

c. Reject concrete if mortar or moisture separates and flows out of mix.

C. Additional Services When Required - The following services shall be performed by the testing agency when required by the Owner at the Contractor's expense:

1. Inspect concrete batching, mixing and delivery operations to the extent deemed necessary by the Owner.

2. Sample concrete at point of placement and perform required tests.

3. Review the manufacturer's report for each shipment of cement and reinforcing steel and conduct laboratory tests or spot checks of the materials as received for compliance with specifications.

D. Other Services as Needed - The following services shall be performed by the testing agency at the Contractor's expense:

1. Additional testing and inspection required because of changes in materials or proportions requested by the Contractor.

2. Additional testing of materials or concrete occasioned by their failure by test or inspection to meet specification requirements.

E. Duties and Authorities of Designated Testing Agency:

1. Representatives of the agency shall inspect, sample and test the materials and the production of concrete as required by the Owner. When it appears that any material furnished, or work performed by the Contractor fails to fulfill specification requirements, the testing agency shall report such deficiency to the Owner and the Contractor.

2. The agency shall report all test and inspection results to the Owner, Engineer and Contractor immediately after they are performed. All test reports shall include the exact location in the work at which the batch represented by a test was deposited. Reports of strength tests shall include detailed information on storage and curing of specimens prior to testing.

3. The testing agency and its representatives are not authorized to revoke, alter, relax, enlarge or release any requirement of the Contract Documents, nor to approve or accept any portion of the work.

F. Responsibilities and Duties of Contractor:

1. The Contractor shall provide the necessary testing services for the following:

a. Qualification of proposed materials and the establishment of mixture designs.

b. Other testing services needed or required by the Contractor.

2. The use of testing services shall in no way relieve the Contractor of the responsibility to furnish materials and construction in full compliance with the Contract Documents.

3. The Contractor shall submit to the Engineer the concrete materials and the concrete mix designs proposed for use with a written request for acceptance. This submittal shall include the results of all testing performed to qualify the materials and to establish the mix designs. No concrete shall be placed in the work until the Contractor has received such acceptance in writing.

4. To facilitate testing and inspection, the Contractor shall:

a. Furnish any necessary labor to assist the testing agency in obtaining and handling samples at the project or other sources of materials.

b. Advise the testing agency sufficiently in advance of operations to allow for completion of quality tests and for the assignment of personnel.

c. Provide and maintain for the sole use of the testing agency adequate facilities for safe storage and proper curing of concrete test specimens on the project site for the first 24 hours as required by ASTM C31.

Questions from Bidders:

1. On the bid form we must acknowledge all Addendums with their dates, Addendum #1 and Addendum #2 are not dated- What dates would you like us to put on the form?

Response: ***Addendum No. 1 should be dated January 31, 2024 and Addendum No. 2 should be dated February 8, 2024.***

2. For the new waterline tie-ins we have to cross a tributary, the documents do not have a stream crossing detail on the E&S drawings, can this be provided?

Response: ***Stream crossing detail is <u>NOT</u> provided for this crossing. Tributary is Intermittent/Ephemeral in nature. Contractor shall anticipate that they will need to provide temporary stream bypassing, rerouting, dewatering, etc. as necessary for conditions experienced. Contractor shall restore this crossing to the existing conditions.***

3. Will a permit be required to cross this tributary-? If so, who is responsible for this?

Response: ***An MDE Waterway/USACE Joint Application Permit (JPA) has been obtained for temporary impacts required to cross this tributary. Letter of Authorization (22-NT-3177/202261204) has an expiration date of August 22nd, 2027.***

4. The final Site Improvement plan show a Boulder/Stone Stockpile –
    a. Is it the Owners intent to allow the General Contractor to use the existing boulders/cobbles/stones that are currently on site to create this stockpile?

Response: ***Yes, the intent is for the Contractor to use the existing boulders/cobbles/stones from the site to create the stone stockpile.***

5. Geotechnical Report suggest undercutting the subgrade (at a maximum of 3.0') and reestablish using compacted fill or lean concrete. Will this be required of the General Contractor?

Response: ***Yes, all recommendations in the Geotechnical Report shall be implemented by the contractor. For bidding purposes assume the maximum depth of 3.0' will be excavated and reestablished.***

6. Specification 02240 Dewatering- If the ground water can be controlled by swales and sumps, is the General Contractor still required to obtain PE Stamped Dewatering plans,
    a. observation wells and appurtenances included within this specification section?

Response: ***No PE stamped drawings will be required if the ground water can be controlled by swales and sumps.***

7. Referencing Drawing ESC-04 – Rock Outlet Protection Detail – please specify what size Rip-Rap we are to use for the Overflow Stone Apron (ROP III).

Response: ***The stone for the Overflow Stone Apron (ROP III) shall be as shown in the Material Specifications Table on drawing SWM-02 which is No. 2 Stone (1.5"-2.5") & Gabion Stone (4"-7").***

8. Referencing Drawing A-04 from Addendum No. 3 – the wall detail shows 2" Rigid Insulation under the Slab going 24" vertically.
    a. Please confirm the rigid insulation is to only be 24" horizontally underneath the perimeter of the slab and not under the entire slab?

Response: ***The 2" Rigid Insulation shall extend 24-inches horizontally and vertically around the entire perimeter of the slab.***

9. Please provide details for the 4’ wide concrete sidewalk on the site.

   Response: ***A detail for the 4-foot wide concrete sidewalk is attached with this addendum.***

10. Referencing Drawing S-1, the Concrete notes state the construction joints shall be as shown on the drawings,
    a. but the Building Slab drawings do not show the construction joints in the slab - please clarify the construction joint locations for this slab.

    Response: ***Construction joints are not required for the building slab; however, if the Contractor elects to use any construction joints, the joints are to meet the requirements of the structural general notes and specifications.***

11. Please provide a detail / thickness for the new gravel lot as shown on drawing C-03.

    Response: ***A detail for the new gravel parking lot is attached with this addendum, see attached.***

12. The project manual currently linked on the website does not contain the section 16920.2.01.D.

    Response: ***Section 16920.2.01.D – Automatic Telephone Dialer and Section 16920.2.01.E – Turbidimeters are included in the conformed Section 16920 – Instrumentation specification attached.***

13. Please confirm the thickness of the building slab. There does not appear to be a dimension provided on sheet S-05.

    Response: ***For bidding purposes assume the thickness of the building slab is one foot (12-inches). However, as previously stated in Addendum No. 2, because the weight of the metal building varies depending on the manufacturer, the contractor will need to verify the foundation dimensions with the supplier of the metal building. Contractor will be compensated for the actual building slab thickness installed.***

14. Please confirm the thickness of the stone under the building slab. There does not appear to be a dimension provided on sheet S-05.

    Response: ***For bidding purposes assume the thickness of stone under the building slab is one foot(12-inches). However, as previously stated in Addendum No. 2, because the weight of the metal building varies depending on the manufacturer, the contractor will need to verify the foundation dimensions with the supplier of the metal building. Contractor will be compensated for the actual thickness of stone placed under the building slab.***

15. Please provide a specification for the filter fabric under the building stone, shown on sheet S-05.

    Response: ***Filter Fabric shall meet the requirements of Specification 02200, Paragraph 2.05 Geotextile Fabric.***

16. Can a detail be provided for the proposed gravel lot?

    Response: ***See response to Question No. 11 above.***

17. Are you (The Town) aware if the contractor or city will be hiring the testing? I didn't see a Quality Control Section/014000 in the specs, and want to be sure we direct our proposal to the correct person.

    Response: ***The Contractor will be required to provide independent testing. See the revised Specification 3.13 above.***

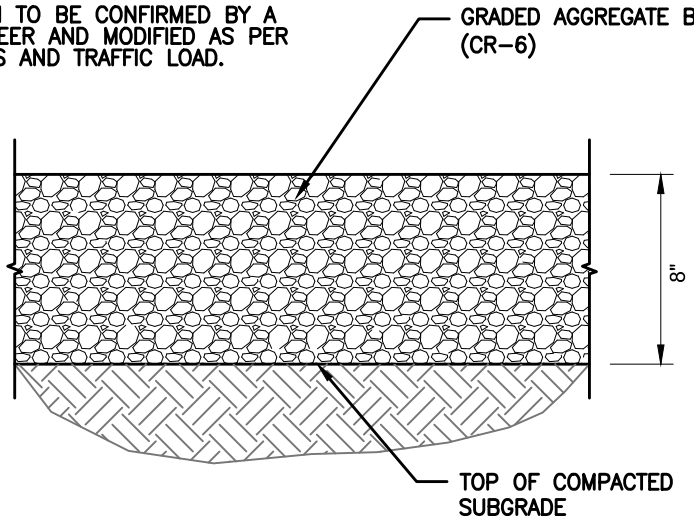
18. Please confirm that even though the 8"/6" water line shown on G-04 appears to be bold, it is in fact existing and not part of this contract.

    Response: ***The 6"/8" water main shown on Drawing G-04 is existing and is not part of this contract.***

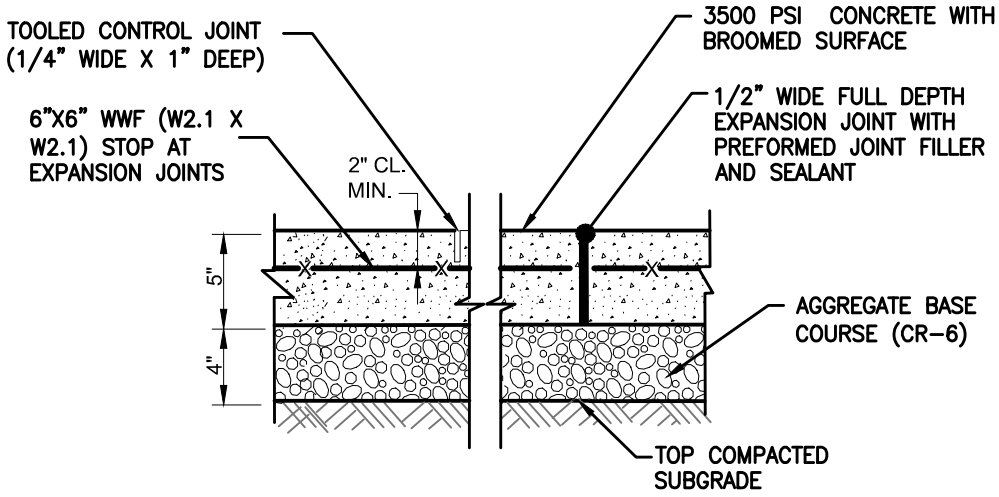
19. Can a bid date extension of one week be provided?

    Response: ***No, the bid date will remain Wednesday, February 28, 2024 at 4:00 P.M. local time (EST).***

NOTE:
GRAVEL LAYER DEPTH TO BE CONFIRMED BY A GEOTHECHICAL ENGINEER AND MODIFIED AS PER SITE SOIL CONDITIONS AND TRAFFIC LOAD.



C VEHICULAR GRAVEL PAVING DETAIL
C-03 SCALE: NOT TO SCALE



NOTE:

1. DISTANCE BETWEEN CONTROL JOINTS SHALL BE EQUAL TO WIDTH OF SIDEWALK UNLESS OTHERWISE NOTED.
2. INSTALL EXPANSIONS JOINTS IN LIEU OF EVERY 4th CONTROL JOINT AND WHERE CONCRETE ABUTS OTHER RIGID PAVING OR STRUCTURES.

D CONCRETE WALK DETAIL
C-03 SCALE: NOT TO SCALE

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ADDENDUM No. 5
FEBRUARY 20, 2024