



ADDENDUM #3

SANDY HOOK WATER DISTRICT 2019 WATER SYSTEM IMPROVEMENTS CONTRACT 12 – NEW WATER TREATMENT PLANT & IMPROVEMENTS BE Project # 19003

BID DATE: THURSDAY, JUNE 2, 2022 – 2:00 pm (Local Time)

This Addendum #3 and its noted revisions and attachments to the Drawings and Specifications shall supplement, amend, and become a part of the Bidding Documents, Contract Documents, Drawings, and Specifications. All Bids and Construction Contracts shall be based on these modifications and issued Drawings, Specifications, and all Addendum.

All Bids must be made on the required Bid Forms and include all of Section 004XXX series documents and must be fully completed and executed with original signatures and corporate seals. All Bid Bonds must be original forms and accompanied by the required certificates, original signatures, and seals. Any Bids without original documents, or a conditional or qualified Bid, will not be accepted.

REVISIONS AND ATTACHMENTS

General

ITEM AD3-1 See the attached pages of questions and request for information (RFI) submitted for clarifications and/or the responses to the questions.

ITEM AD3-2 All special inspections as required by the Kentucky Housing, Building & Construction, Section 014110 of the specifications, or other state or local regulatory agencies and all other tests, inspections and certifications of materials, equipment, subcontractors or completed work, as required by the various sections of the Specifications shall be obtained by the Contractor and all costs shall be included in the Contract Price.

ITEM AD3-3 SECTION 004513 – QUALIFICATION STATEMENT

Replace page 004513-16 with the attached page, AD3-004513-16 in its entirety at the end of the referenced specification section. All of Section 004513 shall be submitted with the bid package.

ITEM AD3-4 SECTION 009010 – SPECIAL CONDITIONS, Paragraph SC-41 QUALITY CONTROL TESTING

Revise the third paragraph to read as follows:

The Contractor will be responsible for taking all samples and concrete cylinders required by the specifications and delivery of a same to a testing laboratory selected by the Contractor; however, said testing laboratory shall be subject to the approval and acceptance by the Owner.

Add the following paragraph to the end of Article SC-41:

The Contractor's Bid Price shall include an allowance in the amount of \$25,000 for all special inspections as required by the Kentucky Housing, Building & Construction, SECTION 014110, and all other tests, inspections and certifications of materials, equipment, subcontractors or completed work, as required by the various sections of the Specifications. This allowance will allow reimbursement to the Contractor for the services of the third-party testing agency to perform all required Special Inspections and materials testing. Should the final cost of all third-party testing be in excess of the allowance, then all cost above the allowance shall be at the sole expense of the Contractor.

ITEM AD3-5 SECTION 014500 – QUALITY CONTROL SERVICES, Paragraph 3.17 – QUALITY CONTROL

Revised Paragraph A. to read as follows:

The Contractor shall employ an independent testing and inspection agency, subject to the approval and acceptance by the Owner, that meets the requirements of ASTM E329 to perform inspections and tests and to prepare test reports. The agency will monitor concrete quality by means of site and laboratory tests. They will be authorized to reject plastic concrete not conforming to specifications. Failure to detect any defective materials shall not prevent later rejection when such defect is discovered, or obligate the Architect or Owner for final acceptance.

The Contractor's Bid Price shall include an allowance in the amount of \$25,000 for all special inspections as required by the Kentucky Housing, Building & Construction, SECTION 014110, and

all other tests, inspections and certifications of materials, equipment, subcontractors or completed work, as required by the various sections of the Specifications. This allowance will allow reimbursement to the Contractor for the services of the third-party testing agency to perform all required Special Inspections and materials testing. Should the final cost of all third-party testing be

in excess of the allowance, then all cost above the allowance shall be at the sole expense of the Contractor.

ITEM AD3-6 SECTION 412200 – HOISTS AND CRANES, Paragraph 2.3 – INTELLIGENT ASSIST DEVICES

Delete paragraph 2.3 in its entirety and replace with the following:

2.3 ELECTRIC CHAIN HOISTS

Design features shall include the following:

- A. All steel construction for external impact resistance and rugged lightweight steel frame.
- B. Ductile, shock resistant load bearing parts.
- C. Cast iron trolley wheels with chilled treads and tapered roller bearings.
- D. A high quality, wear resistant, alloy steel load chain with minimum safety factor of 12 to 1 shall be provided. Chain shall be electric welded, close link type and have a surface hardened chrome alloyed finish.
- E. Overload limit device.
- F. Heavy-duty, low-headroom design with extreme duty motor and a single control pendant to operate the crane and hoist in any direction.
- G. Load block to support load hook on heavy duty anti friction bearing permitting 360 degree rotation.
- H. Electric Chain Hoist shall be Harrington SNER Series or Engineer approved equal.

DRAWINGS

ITEM AD3-7 SHEET M-1-04 – FLUORIDE FEED ROOM, DETAIL 0/M-1-04

Delete the catch basin and access panel door shown on the exterior of the feed room and exterior wall. This shall apply to all

19003/05.27.2022 3 of 4 ADDENDUM #3 CONTRACT #12

relative drawings showing the catch basin (pit) on the exterior of the building for the fluoride feed room.

ITEM AD3-8 SHEET A-01 – FLOOR PLAN – FLUORIDE FEED ROOM (110) SHEET A-04 – BUILDING ELEVATIONS – SOUTH ELEVATION

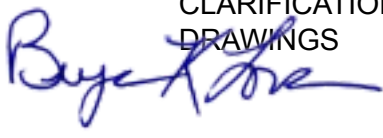
Delete the catch basin and access panel door shown on the exterior of the feed room exterior wall. Delete the any reference to the tanks in the northwest and southeast corners of the room, the 16"x16" access door, pipe bollards for the fluoride feed room.

ITEM AD3-9 MISCELLANEOUS DRAWINGS

See the attached drawings for changes, modifications, additions, or clarifications made to the DRAWINGS (Drawings AD3-1 and AD3-2)

**ISSUED FOR THIS ADDENDUM
DRAWING and/or ATTACHMENTS**

QUESTIONS & REQUEST FOR INFORMATION SUBMITTED FOR
CLARIFICATIONS DRAWING AD3-1 and AD3-2- REVISIONS TO VARIOUS
DRAWINGS



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May 27, 2022

19003/05.27.2022 4 of 4 ADDENDUM #3 CONTRACT #12

AD3-004513-16

PROPOSED SUBCONTRACTORS

Each bidder shall enter, in the spaces provided, the names of the subcontractors they propose to employ for the identified work classifications listed below. The bidder may list "self" if they plan on utilizing their own crews to perform the identified work classification. The bidder shall also list any subcontractor whose contract constitutes an amount in excess of \$25,000. Upon award of contract, the named subcontractors shall be employed to perform the work, unless changes are specifically authorized by the Engineer, in accordance with Specification Section 002113 – Instruction to Bidders, **ARTICLE 13 – SUBCONTRACTORS, SUPPLIERS, AND OTHERS**. Failure to furnish all information requested below may be cause for rejection of the Bid.

The Contractor's Bid Prince shall include an allowance in the amount of \$25,000 for all special inspections as required by the Kentucky Housing, Building & Construction, SECTION 014110, and all other tests, inspections and certifications of materials, equipment, subcontractors or completed work, as required by the various sections of the Specifications. This allowance will allow reimbursement to the Contractor for the services of the third-party testing agency to perform all required Special Inspections and materials testing. Should the final cost of all third-party testing be in excess of the allowance, then all cost above the

allowance shall be at the sole expense of the Contractor.

The Contractor's selection of the third-party testing and inspection agency shall be subject to the approval and acceptance by the Owner.

LIST OF SUBCONTRACTORS

WORK CLASSIFICATION SUBCONTRACTOR

Geotechnical, Materials Testing _____ and
Special Inspections

Electrical _____ HVAC

_____ Pre-Engineering Metal Building

_____ Plumbing

_____ SCADA

_____ Concrete

_____ Painting

_____ (other)

_____ (other)

EJDC[®] C-451, Qualifications Statement.

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Page 16 of 16

19003/5.26.2022 BIDDER'S QUALIFICATION STATEMENT



ADDENDUM #3

**SANDY HOOK WATER DISTRICT
2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 12 – NEW WATER TREATMENT PLANT & IMPROVEMENTS
BE Project # 19003**

QUESTIONS & REQUEST FOR INFORMATION SUBMITTED FOR CLARIFICATIONS

These responses and Addendum #3 along with its noted revisions and attachments to the

Drawings and Specifications shall supplement, amend, and become a part of the Bidding Documents, Contract Documents, Drawings, and Specifications. All Bids and Construction Contracts shall be based on these modifications and issued Drawings, Specifications, and all Addendum.

1. Are there any type of valves on the outlet pipe inside the clearwell tanks? or are the just flanged openings? **There are no valves on the outlet pipe in the above ground clearwells, just flanged openings in the outlet pipe.**
2. I am working on getting pricing on the static mixer for Sandy Hook. However, I am getting some pushback on the Kynar-coated FRP mixer. We'd request that a stainless steel or ETFE-lined carbon steel be allowable. ETFE is a fluorine based plastic, similar to Teflon. **The specification shall remain as stated. The manufacturer not listed as an "approved equal" must submit the required pre-bid submittal information as required by the specifications in order to be considered an acceptable manufacturer. At this time, the deadline for submittal of pre bid information has passed.**
3. First, are there any "Buy American" requirements? I don't see them in division 13, but am concerned they might be required in another part of the overall bid documents. There are some projects that we prefer not to quote due to "Buy American" requirements. **See Section 006450 - KENTUCKY BULLETIN 1780-2 (American Iron and Steel) for the requirements. Section 746 of Title VII of the Consolidated Appropriations Act of 2017 (Division A-Agriculture, Rural Development, Food and Drug Administration, and Related Agencies, Appropriations Act, 2017) and subsequent statutes mandating domestic preference applies to American Iron and Steel requirement for this project.**
4. What warranties are required? 133000/1.10 shows multiple different warranties, some of which don't appear to be applicable to this project (ex: PR Standard Weathertight Warranty for one example). **Disregard materials which are not applicable to this project. Section 133000.1.10.9 shall be 10 years.**

19003/5.27.2022 Page 1 of 6 QUESTIONS & RFI – CONTRACT 12 Addendum #3

ADDENDUM #3
QUESTIONS & RFI – Contract #12

5. 133419/1.4/C calls for "Partially Enclosed" enclosure classification for the Maintenance building, but it appears to be completely enclosed. Should the Maintenance Building be "Enclosed"? **The building is classified as Partially Enclosed by 133419.1.4.C and General Notes on drawings S-01. Such classification allows overhead doors to not be wind speed rated to 115 mph ultimate wind load.**
6. What is required in regards to Factory Mutual? 133000/2.2/12 calls for FM Class 1-60, 1-75, 1-90, and 1-120. Which of these four (4) does it need to be? **FM Class 1-90 shall be applicable.**
7. 133419/3.2/C says "steel shall be hot-dip galvanized....". Our standard for frames and bracing is gray primer but we can provide hot-dipped galvanized. On the other hand, our secondary members as a standard are G30 galvanized with an acrylic coating. Can we provide hot-dipped galvanized frames and G30 secondaries? **When galvanized, Section 133419.3.2 specifies the means and requirements. Section 133419.2.2.B.2 requires primary members to be galvanized. Section 133419.2.2.C.1 requires endwall members to be galvanized. Section 133419.2.2.D.1 requires structural secondary members to be galvanized. Section 133419.2.2.D.1 requires cold- or**

roll-formed (gauge) members to be galvanized with clear acrylic secondary coating and Section 133419.2.3.H requires such galvanized coating to be G30.

8. What is the purpose of 3 different division specifications – 133000, 133419, and 133420? **The different specification sections cover the different aspects of the project for the PEMB panels and insulation, structural framing, and the structural framing for the backwash lagoon.**
9. Are there any other drawings for the Backwash Lagoon Structure? It's shown only on A 03 lower right page that I can see. **The Backwash Lagoon Structure is an open structure and is shown on Sheet A-03, the various Civil Sheets, Sheet C-3-01, and Sheet S-08.**
10. Spec Section 331420 – 2.02 – Butterfly Valves Lug Wafer Filter Valves – H. – States “Valves shall be Keystone Figure No. AR-2”. Will there be alternative acceptable valves such as DeZurik? **The filter valves shall be provided by the pressure filter manufacturer per Section 466121, Equipment Schedule on page 466121-18 and the previous addendums.**
11. Spec Section 331420 – 2.07 – Plug Valves – Will the DeZurik PEF 100% full port plug valve be an acceptable alternative to the listed plug valve manufacturers? **Yes, DeZurik PEF 100% full port plug valve will be acceptable.**
12. Who pays for soil and concrete testing? SC-41 in 009010 states GC to take all samples and concrete cylinders to testing laboratory selected by the owner. Spec. section 014500 states GC to pay for quality control inspections. 033000 states for owner to pay for concrete testing. **Per SECTION 014500 – QUALITY CONTROL SERVICES Paragraph 1.02 – TESTS, INSPECTIONS, AND CERTIFICATIONS OF MATERIALS all tests, inspections and certifications of materials, equipment, subcontractors or completed work, as required by the various sections of the Specifications shall be**

19003/5.27.2022 Page 2 of 6 QUESTIONS & RFI – CONTRACT 12 Addendum #3

ADDENDUM #3
QUESTIONS & RFI – Contract #12

obtained by the Contractor and all costs shall be included in the Contract Price. See Addendum No. 3 for clarifications.

13. Is Form-A-Key product that is specified at slab construction joints (spec. section 033000, paragraph 2.4.D) required to be used on project because it is not mentioned in spec. section 033000, paragraph 3.7.B. **Prefabricated pourstop with keyway execution is specified in Section 033000.3.7.C.2.**
14. Dimensions and details are needed for blower pads. **The concrete blower pads shall be 5'W x 5'L, 6" thick with 6x6 W2.9/W2.9 WWF.**
15. Dimensions and details are needed for pit on South side of WTP Building. **Pit will not be required. See response to comment no. 27.**
16. Please provide dimensions for holding tank on the north side of the WTP Building. There are no details showing this structure. **See Sheet C-3-02. The holding tank dimensions are shown on the typical section and is a 2,000 gallon tank at 9'L x 7'W x 8'D.**
17. Structure drawings state to undercut rock by 2' and fill with granular, but geotechnical

shows no rock that will interfere with the structures. Geotechnical report suggests that there are soft soils and recommends to undercut soft soils. Are we to bid overexcavating the footers by 2' and fill with rock? Are we supposed to undercut the slab on grade for the building and fill it with granular? **The foundations were designed based on an allowable net bearing capacity per the specifications. However, much of the shallow soils at this site are soft, necessitating undercut and refill below foundations and slab-on-grade. Once foundation bearing surfaces are exposed, a geotechnical engineer or senior engineering technician from Greenbaum Associates, Inc. should be present to view all bearing surfaces to determine the presence of soft soils. Where soft areas are encountered, undercut will need to extend to firm material or to a level determined to be acceptable by the geotechnical engineer and should be refilled with either lean concrete ($f_c' = 2,000$ psi) or open-graded stone such as Number 57 stone.**

Per SECTION 312000 – EARTHWORK, Paragraph 3.01, C., if unsuitable bearing materials are encountered at the required subgrade elevations and removal of said unsuitable material beyond the required subgrade elevations is required and its replacement as directed will be paid on the basis of the Standard General Conditions, Article 11.

18. On the site grading plan there are no elevations marked for the existing contours. Please provide a drawing that shows the elevations on the existing contours. **The grading plan shows the proposed contours with elevations and ties into existing contours. All contour lines are drawn at one-foot intervals. See the updated Site Grading Plan – Sheet C-1-03.**
19. Addendum #1 states to install asphalt at the access entrance from Howards Creek Road. How far from Howards Creek Road are we supposed to place asphalt before we switch the crushed stone drive? **The paved entrance from Howards Creek Road**

19003/5.27.2022 Page 3 of 6 QUESTIONS & RFI – CONTRACT 12 Addendum #3

ADDENDUM #3
QUESTIONS & RFI – Contract #12

shall extend 25 feet from the edge of the pavement for Howards Creek Road and the width shall match the existing gravel access road with tapers on each side (approximately 20 to 25 feet wide at the entrance).

20. Drawing SD-0-02 shows a commercial entrance that has a corrugated metal entrance pipe. The site piping drawing does not show the corrugated metal entrance pipe. Is this pipe required on the project? **The detail shows a typical approach section and a typical pipe section. These details shall apply if ditching or other excavation is necessary for proper positive drainage for the entrance.**
21. In the drawings and addendum #1 it has indicated to install megalugs for restraint on fittings and to also install thrust blocks. Typically on projects we see either a restrained fitting system using megalugs or using thrust block, but using both since they are both accomplishing the same thing. Please clarify if we're supposed to use both megalugs and thrust blocks. **As stated on the drawings, the Contractor shall install grip rings on all fittings and thrust blocking per the detail.**
22. Sheet C-1-03 has a note for the contractor to clear and grub hillside from Northern entrance to South property line and regrade embankment. From being at the site this embankment and trees didn't look like it needed to be modified to accommodate the project. Please provide more detailed information on the grades required for the

embankment and define the area on the drawings where the trees need to be removed. **As stated on the drawings, the Contractor shall clear & grub hillside from northern entrance to south property line and regrade the embankment for maintenance access, removing all swales, ditches, stumps, trees, etc.**

23. There is a specification 330507 for boring and jacking, but from the drawings there appears to be no boring and jacking required on the project. Please confirm there is no boring and jacking required on the project. **The specifications contain sections that typically apply to a project and may or may not be used for this project. If there are no locations where boring and jacking is called out on the drawings, then the section is not applicable.**
24. Drawing SD-0-04 shows a KTC Crossing detail, but from the rest of the drawings there appears to be no KTC crossing on the project. Please confirm this detail is not needed on the project. **All standard detail sheets (SD-0-X numbered sheets) includes various standard details and drawings that typically apply to a project and may or may not be used for this project.**
25. Drawing SD-0-05 shows a detail for directional drilled creek crossing, but from the rest of the drawings there appears to be no directional drilled pipes on the project. Please confirm this detail is not needed on the project. **See response to comment no. 24.**
26. Section 463633 Volumetric Screw Feeder with Solution Tank paragraph 2.03-A states dissolving tank can be fabricated from carbon steel or 316 Stainless Steel. Acrison recommends and will quote on 316 Stainless Steel solution tank. Please consider deleting “chemical resistant zinc oxide primer and dry powdered epoxy coated carbon steel or” from the specifications. This will provide all material in contact with chemical or

chemical solution to be constructed from stainless steel. **The specification shall remain as stated.**

27. In the Fluoride Room on A-01, P-100 and E1.1 indicate there is a tank in the Northeast corner of the Fluoride Room. That tank does not show on Drawing M-1-01 or M-1-04. Please clarify the details of the tank. **Due to a change in the fluoride feed system being installed, the referenced tank has been deleted. See Addendum No. 1 and No. 3 for clarifications.**
28. On sheet C-1-03, the areas of the future maintenance building and future backwash structure currently do not show any stone pavement being placed. Is the awarded contractor to leave these areas dirt or should we account for stone pavement in these areas? **The area for the future maintenance building and future backwash lagoon shall be as indicated. No stone shall be placed in these areas.**
29. Referencing the provided Wage Determinations, please confirm the funding agencies will permit both the use of the “SU” and “UAVG” classifications as applicable to the project. **The use of both the “SU” and “UAVG” classifications, as applicable, will be acceptable for the project.**
30. Please advise if the Engineer/RPR will require a temporary office trailer, utilities, etc. on this project. If so, please confirm the trailer size, periodic cleaning, office supplies, and

utility (internet, phone, etc.) requirements necessary. **No Engineer/RPR temporary office trailer will be required.**

31. There appears to be some conflicting language throughout the specifications and plan notes regarding who bears the responsibility for provision of the Third-Party Testing Agency for Special Inspections and materials testing including geotechnical testing, concrete testing, structural steel inspections, masonry testing, etc. Please confirm that the Owner will select and pay for a Third-Party Testing Agency to perform all required Special Inspections and materials testing. If otherwise, please consider establishing an Allowance for this testing through which the Contractor may be reimbursed for the actual cost of the testing performed, as it is difficult to determine the cost of such testing at the time of bid. **See response to comment no. 12 and Addendum #3 for clarifications.**
32. Drawing S-01, Note 3 states: "All footings must be supported on undisturbed soil capable of supporting design loads without appreciable settlement. Contractor shall probe bearing strata with driven rods, remove shallow bedrock (and overlying soil) within two feet below bottom of footing, and replace with engineered soil backfill." Additionally, the Geotechnical Report by Greenbaum states in paragraphs 5.1 and 5.2 that "...undercut and refill below foundations and slab-on-grade..." may be necessary where soft or unsuitable soils are encountered and "...undercut will need to extend to firm material or to a level determined to be acceptable by the geotechnical engineer and should be refilled with either lean concrete or ... Number 57 stone". Please confirm the Contractor will be compensated for any required over-excavation and refill where the Testing Agency or Engineer may determine unsuitable bearing soils exist. **See response to comment no. 17.**

19003/5.27.2022 Page 5 of 6 QUESTIONS & RFI – CONTRACT 12 Addendum #3

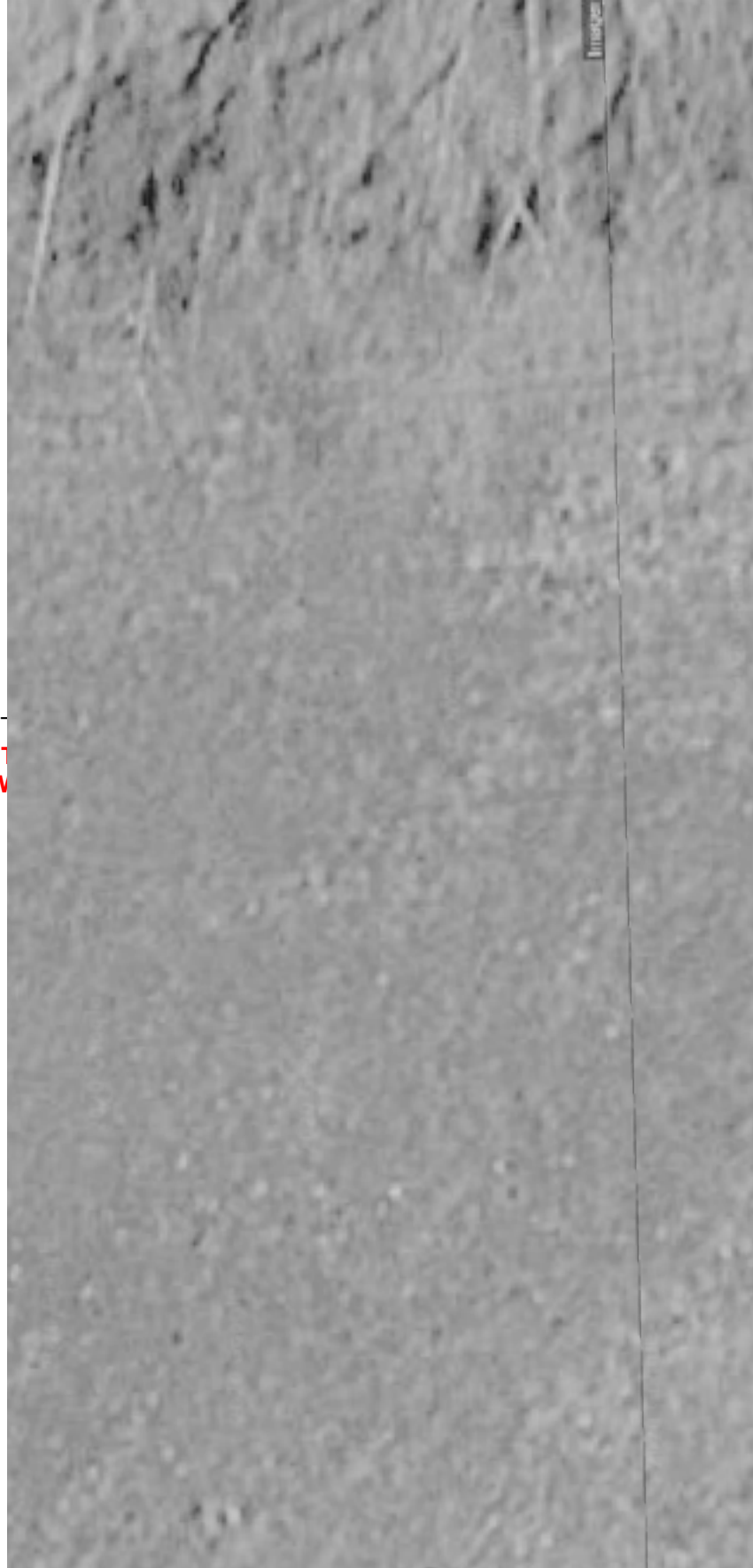
ADDENDUM #3
QUESTIONS & RFI – Contract #12

33. Addendum #1, Question & Response Item 4, seems to indicate that asphalt pavement is required at the access entrance road to the Plant from Howard's Creek Road. This access road (from Howard's Creek Road to Well #8) is currently a poorly defined gravel/dirt road. Please advise the extent (width x length) to which this access road should receive asphalt pavement, as this is not readily apparent in the plans. **See response to comment no. 19.**
34. Drawing C-1-07 details Gabion Baskets for Stream Bank Restoration with a hatched area identified as "Fill" behind the Gabion Retaining wall. Please confirm if the fill material is to be clean, free draining crushed stone, or if compacted soil fill should be used in these areas. **The fill shall be clean compacted earthen backfill material, free from large rocks. The material utilized in the fill may be material from the excavation of the various structures, with the exception of any unsuitable material. The geotextile fabric shall be Mirafi N-Series Nonwoven Polypropylene Geotextiles, Series 140N, or Engineer approved equal.**
35. The Input/Output tables in Specification 255100 refers to Process Water Flow Meter (AI 22). Is there a meter on the process water? If so, can you provide information on the meter? **The fill shall be clean ss water flow meter will be furnished by the Owner and shall be installed and all connections completed by the Contractor.**
36. In Addendum 2, AD2-9 added an electronic scale in the chlorine gas room. Does the added scale replace one of the scales listed in the Chemical Feed Schedule for the

chlorine gas system? **Item AD2-9 stated "The chlorine gas cylinder scales and indicator are as specified in the CHEMICAL FEED SYSTEM table on Sheet M-1-04 or as specified above or Engineer approved equal."** The added scale and indicator were an approved manufacturer alternative to the one listed in the table on Sheet M-1-04.

19003/5.27.2022 Page 6 of 6 QUESTIONS & RFI -
NEW 40,000 GALLON ABOVE GROUND (2) 5' X 5', 6" T
CLEARWELLS W/ 6x6 W2.9/V

CLEAR WELL #1



**9' X 7' X 8' PRE-CAST CONCRETE
HOLDING TANK**

ELL #6 ELL #8

SCALE: 1"=20'

Project No.

SANDYHOOK19003

20 0 20 40



DISTRICT *Serving Our Community*

CONTRACT 12 -

WATER WTP C-1-02 REVISION

Date 05/2022

Dwg. No. AD3-1

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CLEAR WELL #2

HIGH SERVICE & BACK WASH PUMPS
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CHLORINE GAS ROOM

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RIM EL. 715.64 INV EL. 708.82

6" PVC FROM WELL #5

71⁵ 71⁰

4' MAN GATE

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FILTER ROOM FILTER ROOM
TESTING ROOM

UGC

UGC

714.50

8" PVC DISCHARGE

MH 3

RIM EL. 716.07

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6" PVC FROM WELL #⁶ EX 6" W.M. w

TO BE ABANDONED

NEW 57'-4" x 82'-4" WTP BUILDING

TOILET ROOM

716.00

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UGC

NEW BACKWASH SAND FILTERS

UGC

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INV. EL. 708.33

8" PVC DISCHARGE

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6" PVC FROM WELL #8 715

OFFICE / LAB

10" C BACKWASH

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RIM EL. 714.75

UG^C

INV. EL. 709.41

FUTURE 50'X72' MAINTENANCE BUILDING UG^C

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OUTFALL STRUCTURE INV. EL. 707.80

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24' SLIDING GATE

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716

8" PVC CLEARWELL

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6" PVC RAW WATER LINE

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S^A

N1° 35' 23"E 107.01'

GABION BASKET WALL

SEE SHEET C-1-07

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DRAIN LINE
CRUSHED STONE SURFACE
715

714

713

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2" PVC DRAIN LINE

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NEW TREE LINE LIMITS

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30.72'

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6' HIGH CHAIN LINK FENCE

56° 32' 39"W

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N2° 24' 08"W 247.05'

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GABION BASKET WALL SEE SHEET C-1-07
PROJECT #: 19003

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DATE:
APRIL 2022

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71₀

S8° 50' 22" ^W 50.00'

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PROJECT MGR: DRAWN BY: CHECKED BY:

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N8° 30' 57" W 111.59'

W/L
W/L
W/L

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W [REDACTED] 8

N8° 24' 01" E 90.65'

8

20 0 20 40

[REDACTED] L

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W/L

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SCALE: 1"=20'

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C-1-03

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