

CITY OF MIDDLETOWN
PURCHASING DEPARTMENT

ADDENDUM #2 TO BID #2016-011
**BID #2016-011- Francis T. Patnaude Inter-Municipal Pumping Station
Mattabassett Regionalization Project – CT-DEEP CWF-487C**

Date Issued: July 19, 2016

ALL BIDDERS ARE HEREBY ADVISED OF THE FOLLOWING INFORMATION AND/OR MODIFICATIONS TO THE CONTRACT BID DOCUMENTS:

- REISSUED DRAWINGS WITH REVISIONS
- REISSUED SPECIFICATIONS WITH REVISIONS
- ALTERNATIVES
- RESPONSES TO SUBMITTED QUESTIONS

INVITATION TO BID

**PLEASE NOTE ** The date set for the receipt of proposals has been extended to
Thursday, August 11, 2016 at 11:00 AM
~~Thursday, July 28, 2016 at 11:00 AM~~**

PLEASE VERIFY THAT YOU HAVE RECEIVED THIS NOTIFICATION IN THE SPACE BELOW AND FAX OR EMAIL THIS PAGE BACK TO THE PURCHASING DEPARTMENT.

FAX: 860-638-1995 EMAIL: purchase@middletownct.gov

BIDDER ACKNOWLEDGES RECEIPT OF ADDENDUM #2: _____

COMPANY NAME

All bidders are hereby advised of the following amendments to the contract bid documents which are hereby made an integral part of the specifications for the subject project, prepared by the City of Middletown to the same extent as all other documents. All work shall conform to the standards and provisions of same. Bids submitted shall be deemed to include contract document information as shown in Addendum No. 2, and ALL addendums issued. General bidders shall notify sub-bidders that may be affected by this addendum as applicable. **Bidders shall be required to acknowledge receipt of this addendum in the space provided on the Bid Proposal Form.**

Failure to acknowledge receipt of this addendum by the bidder may result in the rejection of their bid. Bidders are directed to review changes to all portions of the work as changes to one portion may affect the work of another.

*****BIDDER NOTE:** If you have already submitted a bid you shall be required to acknowledge receipt of this addendum under separate cover in a sealed envelope clearly marked with the bid number and description. This acknowledgment must be received by the time and date specified to be accepted by the City.

Donna L. Imme, CPPB
Supervisor of Purchases

ADDENDUM #2 TO BID #2016-011

BID #2016-011- Francis T. Patnaude Inter-Municipal Pumping Station

Mattabasset Regionalization Project – CT-DEEP CWF-487C

BID ADDENDUM 2 - REISSUED DRAWINGS

Note: Bid Addenda modifications denoted with revision clouds shall be incorporated as a modification into the as-bid set of drawings.

1. C-1.5
2. C-2.1
3. C-2.2
4. C-2.3
5. C-2.4
6. C-2.5
7. C-5.3
8. ENV-1.1
9. ENV-4.2
10. HBM-1.3
11. A-1.1
12. A-5.9
13. A-6.1
14. S-5.4
15. S-5.6
16. S-9.1
17. S-10.1
18. EP-1.1
19. EP-1.2
20. EP-3.1
21. EP-3.3
22. PI-0.1
23. PI-0.2
24. PI-1.2
25. PI-1.3
26. E-1.2
27. E-2.2
28. E-6.1
29. E-7.1
30. E-7.2
31. E-7.3

BID ADDENDUM 2- REISSUED SPECIFICATIONS

Note: Bid Addenda modifications denoted with revision clouds shall be incorporated as a modification into the as-bid set of specifications.

1. Table of Contents (12 pages)
2. Section 3- Contractor Employee Information and Training Verification Forms (4 pages)
3. Section 02060-Selected Demolition (1 page)
4. Section 02085-Contaminated Building Materials and Underground Structure Abatement (10 pages)
5. Section 11540A – Dry Weather Submersible Sewage Pumps (22 pages)
6. Section 11540B - Wet Weather Submersible Sewage Pumps (21 pages)
7. Section 14600 – Hoists and Cranes (9 pages)

ALTERNATIVES

Alternatives 1-4 addressed in Addendum 1. No alternatives in Addendum 2.

BID ADDENDUM #2 - RESPONSES TO BIDDER'S PREVIOUSLY SUBMITTED QUESTIONS of ADDENDUM 1

General Information

Questions 1-3 were addressed in Bid Addendum #1. No further questions in Addendum 2.

Contract Documents

Questions 4-16; 19-20; 23-28 were addressed in Bid Addendum #1. Response to Question 17 in Addendum #1 has been revised as follows:

17. Please define contractor scope of work under this contract relating to the new buried gas service installation. **Delete:** "The contractor is responsible for preparing the trench; Eversource-Gas installs the gas line and gas meter; the contractor backfills & compacts the trench." **Replace With:** "The gas service will be installed by Eversource-Gas from the gas main in the street to the gas meter. The Contractor shall fully coordinate with Eversource-Gas to install the gas service." See reissued Drawing C-1.5.

18. Due to the complexity of the project we are respectfully requesting a 2 week extension of the bid due date to August 11, 2016. **The bid opening is extended to August 11, 2016.**
21. Reference Exhibit F2, State of CT DEEP Permits, Structures, Dredging and Fill Permit, and Plan Sheets C-1.7, C-2.1, C-2.3 and C-2.4, Wetland Plates 3, 4 and 5:
 - › Plan Sheet C-1.7 indicates Erosion & Sedimentation Control for the Pump Station Site Only. Plan Sheets C-2.1, C-2.3 and C-2.4 indicate the proposed location of dewatering frac tanks, but do not indicate any BMP's. What are the Erosion and Sedimentation Control Requirements for the "Off Site" construction indicated on Sheets C-2.1, C-2.3 and C-2.4? **See reissued Drawings C-2.1 and C-2.4.**
22. Reference Section 3, Training Verification Form Pg. 3-26 Part 2 No. 1:
 - › The following substances are the complete list of hazardous substances, approved by the Owner, which may be brought onto the facility to complete the work contracted.' We request this be taken out of the bid submission requirement and be requested to be submitted upon award of contract. **See reissued Section 3, pages 3-25 to 3-28. Bidders are to complete and include pages 3-27 and 3-28 with their bid submittal.**
29. The drawings call for a "Shell Material" to be inside the casing for the micro pile. The drawings and specs make no other mention in regards to this. Is there anywhere to find out what the shell material is or what it's intention is? **Shell material will not be required as the specifications call for the production pile to follow the drill head during the drilling procedure. (Reference 02300-3.01.B)**

General Requirements

Question 30 was addressed in Bid Addendum #1. No further questions in Addendum 2.

Civil, Site, Demolition and Environmental

Questions 31-40; 42-49; 51-53; 55; 58 were addressed in Bid Addendum #1.

Drawing G-0.4, General Sequence, Note 8 – Please clarify the scope of the temporary pumping station. **Addendum 1: See reissued Specification Section 02062- Temporary Sewer Bypassing.**

- › What are the minimum and average daily flows? (Peak flows are specified in 02062.1.6.A.1). **Addendum 2: Average Day = 30 gallons per minute. Minimum day = 10 gallons per minute. Maximum Day = 100 gallons per minute. Peak Day as specified.**

50. Are there any coatings on the timbers for the existing pipe bridge that would classify the materials as hazardous for disposal? **No. These materials can be disposed of as typical construction debris. See reissued Drawing C-2.4.**
54. Reference Sheet C-2.4. Please provide details regarding the limits and requirements for abandonment of existing utilities between the proposed pump station site and the City of Middletown Water Pollution Control Plant, specifically including the 36" Interceptor, the 24" CIP Sanitary, the 48" Sanitary and the 42" Sanitary (All Existing). **See reissued Drawing C-2.4.**
55. Section 02085 PCB Contaminated Material Abatement – Paragraph 1.1.G – Last sentence reads *“Contractor is responsible for determining the actual quantities to form the basis of their bid”*. Our assumption is the testing that has been completed and the quantities listed in the specifications are correct and provide adequate information to bid off. Please clarify the intent of the specified requirement of having the Contractor “determine actual quantities”. Are we to assume the information provided is inaccurate? **See reissued Specification Section 02085.**
56. Reference: C-2.2 and C-2.4 Profiles indicate, “Deep Pile Supports 12’ OC (See Details)”. Reference: C-5.3 Detail 5 on C-5.3 Indicates, “12” diameter Steel Pipe Piles Concrete Filled Driven to Refusal Rock Sockets Not Required (Typ.)”. Reference: S-5.6 Detail 1 on S-5.6 indicates, “Typical Micro Pile Detail which includes 12” drilled shaft, 1 ½ x 18 x 18 Steel Plate and 3-#14 bars in the pile shaft.” Reference: Bid Proposal and Section 700 Measurement and Payment, Item 20 Paragraph B “Micro-Piles at East Main Street Interceptor”.

Questions:

- > Are the piles indicated on Sheets C-2.2, C-2.4 and Detail C-5.3 included for payment at the linear foot price for bid item 20 - Furnish and Install Micro-piles? **No. Measurement and Payment for the driven concrete filled piles as indicated on the referenced Civil drawings will be addressed in the next addendum.**
- > Please confirm that these are driven pipe piles and not micro piles. **Yes. These are not micro piles.**
- > Please provide a material specification, driving criteria and estimated pile tip elevations for the 12” pipe piles shown on sheets C-2.2, C-2.4 and C-5.3. **A specification will be provided in the next addendum.**
- > Doghouse Manhole 111 is shown on the Profile (Sheet C-2.2) as not being on piles, but Detail 6 on C-5.3 indicates that it is built on 4 piles. Furthermore, the location of the indicated piles are in conflict with the existing flow and cannot be installed as shown. Is Manhole 111 intended to be pile supported and if so how can this be

accomplished while maintaining flow in the existing 36" Sewer? **Remove pile support of doghouse and furnish flexible connector. See reissued Drawing C-5.3.**

57. Reference: Sheets No. C-2.1 & C-5.4, there is a 22.5 Deg. Vertical Bend at Station 208+10 on the 30" Force Main. The Table on Sheet 5.4 (5 on C-5.4 Typical Thrust Block for Vertical Upward Bends) does not indicate dimensions for a 22.5 degree thrust block. Please provide dimensions.

A detail will be presented in the next addendum.

59. Specification 02615 2.04 B. States "Mechanical joint restraints and concrete thrust blocks shall be installed at all fittings."

- › It is not industry practice to require the application where retainer glands and thrust blocks are both called out as being required. This is compounded by the use of such large thrust blocks. Are both restraints needed? If so could we use a secondary restraint system such as EBBA Megalug restraint harness and use retainer glands on the fitting as an option to the detail 1 on C 5.4 for the typical anchor for vertical downward bend?
- › The 11 ¼ vertical bend on the 24" force main on the site by the surge tank is in the area we are installing pipes on micro piles due to poor soils. Won't the 22 ton thrust block cause additional stress on the pipe if it settles? The sump under the pipe is also an OSHA issue being over 6 feet deeper than the trench shoring. Will sheeting be paid for in this application?
- › The detail 1 on C 5.4 for the Typical anchor for vertical downward bend shows a thrust block under a 30" force main - 22 ½ degree bend of 11' W x 11'L x 9' D (80 tons of concrete) poured against undisturbed soils. Drawing C 2.1 show the use of the 30" 22 degree vertical bend at the edge of the road near the tie in. There is no OSHA approved way to excavate a 9' deep undisturbed vertical wall sump under a pipe besides installing sheet piling and leaving it in place. If this is the intent will the steel sheet piling be paid under the left in place bid item? Could we use a secondary restraint system such as EBBA Megalug restraint harness and use retainer glands on the fitting as an option to the thrust block?
- › Thrust block details on C 5.4 state that you can pour against undisturbed earth or structural backfill. This does not allow us to shore and backfill around the thrust block with structural backfill so this should not change the OSHA issues listed above.

Responses to these four bulletized questions will be provided in the next addendum.

Structural

Questions 60-61 and 63 were addressed in Bid Addendum #1.

62. In reviewing the documents and the specs, there are several drawings and comments regarding exterior stairs being comprised of metal stairs and platforms as called out on S-1.4. Drawing S-1.4 also seems to show concrete construction. Please clarify if they are metal stairs and platforms or concrete. If they are metal please provide details. **See reissued Drawing A-5.9.**

Masonry

Question 64 was addressed in Bid Addendum #1. No further questions in Addendum 2.

Thermal and Moisture Protection

Question 65 was addressed in Bid Addendum #1. No further questions in Addendum 2.

Doors and Windows

Questions 66 to 73 were addressed in Bid Addendum #1. No further questions in Addendum 2.

Specialties

Question 74 was addressed in Bid Addendum #1. No further questions in Addendum 2.

Equipment

Questions 75-79: 82; 87 were addressed in Bid Addendum #1.

80. Reference Plan Sheets PI-1.1 and EP-3.3: PI-1.1 shows 3" PVC-OVRFL from Wash presses tied-in to the 8"-DI-OVRFL. EP-3.3 Typical Grit Washer Profile indicates, 2" NPT SS pipe to DI Companion Flange and 4 DIP to 8" DIP Drain. Please clarify the type and size of the materials to be used. **See reissued Drawings EP-3.1 and EP-3.3.**
81. Reference Spec 11060.2.03 Compressed Air Piping and Fitting: Spec states, "All compressed air piping in sizes 1" and smaller shall be PE-AL-PE...." On drawing EP-1.2 CA is listed as 1.5" NPT Aluminum CA Piping. Also shown are Isolation Assembly and Air Piping Assembly which do not indicate sizing.
- > Please provide additional information on 1.5" piping including material requirements and details of the installation limits. **See reissued Drawing EP-1.2.**
 - > Please provide sizing details for the Compressed Air Isolation Assembly and the Compressed Air Piping Assembly. **See reissued Drawing EP-1.2.**

83. Drawing EP-1.1 & EP-3.1 notes that the 3" drains from the Screenings Wash Presses are BI (black iron). Drawing EP-3.3 indicates these same lines are SS (stainless steel) and Drawing PI-1.1 indicates these same lines are PVC. Please confirm type of material to use for 3" drain lines for the screenings wash presses. **See reissued Drawings EP-1-1; EP-3.1 and EP-3.3;**
84. Drawing EP-3.1 notes that the 2" drain line from the Grit Washers are 2" NPT BI (black iron). Drawing EP-3.3 indicates these same lines are SS (stainless steel). Please confirm type of material to use for 2" drain line from the Grit Washers. **See reissued Drawings EP-3.1 and EP-3.3.**
85. Drawing EP-1.1 calls out for a screening discharge hopper and no other drawings detail this item. Specification section 11331 makes no mention of this item being required. Please confirm if a screenings discharge hopper is to be provided and if so where this is detailed or specified. **See reissued Drawing EP-1.1.**
86. There are ultra-sonic level sensors installed on either side of the mechanical bar screens. On drawing EP-1.2 they are shown and referenced to detail 3 on EP-3.3, which shows mounting the level sensor in a concrete slab. On drawing EP-1.2 these level probes are shown being installed on aluminum channel covers. Please provide detail for installation in aluminum channel covers. **A detail will be presented in the next addendum.**
88. On drawing A-1.1 the generator/fuel tank platform appear to show stairs and a landing. Is this to be included in Misc. Metals or part of another package? **Reference Specification Section 16230. 2.5. M. See reissued Drawing A-1.1.**
89. Drawing EP-1.1 indicates a transfer pump in the chemical storage tank area. Upon review of drawing PI-1.3 and specification 11740 there is no mention of a transfer pump. Please confirm if a transfer pump is required for the project and if so where it is specified. **A transfer pump is not required. See re-issued Drawing EP-1.1.**

Division 13

90. Drawing PI-1.3 shows back pressure valves on the discharge of the hypo peristaltic feed pumps and are shown again at the injection point. This is a little uncommon in WW feed systems, especially with peristaltic pumps. More back pressure results in shorter tube life and higher operating costs. Are duplicated BPVs required? **See reissued Drawing PI-1.3.**

Question 91 was addressed in Bid Addendum #1.

Division 14

92. Specification section 14600, Part 2.01 – Davit cranes states that they should be Series 5110 as manufactured by Thern, Inc., Halliday Products, or equal. The Thern series 5110

is now the series 5PT10. The series 5PT10 is 10" shorter than the old 5110 version, there is 5BE10-15S option which gives you the ability to extend it another 15", please provide what model number you would like to be used and if the extension kit is needed.

A response will be presented in the next addendum.

Division 16

93. Ref: Drawing E-6.1 Lighting Fixture Schedule: There is no letter designation next to the fixture description as it relates to the electrical lighting plans. **See reissued Drawing E-6.1.**

Supporting documents

Questions 94-97 were addressed in Bid Addendum #1.

BID ADDENDUM #2 - RESPONSES TO BIDDER'S QUESTIONS **SUBMITTED AFTER 4 PM ON JULY 11th**

98. Will the City waive the normal Sewer Use Fee for discharging treated wastewater to the sanitary sewer system? **Yes. Any forms required by the City POTW will be furnished by the Contractor.**
99. Paragraph 1.03A of Section 02413 states that the owner has registered under the two DEEP General Permits for discharging remediation wastewater. What treatment system was defined in those two applications? **Both General Permit applications are furnished in the Supporting Documents folder on CD. Refer to DEEP Form Question 8: A Detailed Description of the type of treatment system installed to treat the discharge (page 4 of 7).**
100. Please provide existing plans for the Fire Tower Building. **Our attempts to locate these plans have been unsuccessful.**
101. Section 02413 states that the "entire site" has been determined to be a GWAEOEC, whereas Drawing ENV-1.1 shows a limited GWAEOEC. Which designation is correct? **All areas within the Project Limits of Disturbance shall be considered GWAEOEC. Dewatering and treatment shall be accomplished per the contract documents and two DEEP permits referenced above. Also see reissued Drawing ENV-1.1**
102. Utility Bridge: Detail 2/S-9.1 shows HSS4x4x1/2 bracing under the pipe, where detail 1/S-9.2 shows HSS8x4x1/2 bracing under the pipe. Please clarify. **HSS8x4x1/2 are the typical floor beams per Detail 2/S9.1 and Detail 1/S9.2. The HSS4x4x1/2 leader should have pointed to the horizontal brace elements on the plan view shown in Detail 2/S9.1.**

103. Sheet C-2.4 and sheet S-9.1 state the pipe bridge goes from station 312+49 to station 312+97, which is 48'. However the elevation view on sheet S-9.1 measures twice that length. Please clarify the length of the pipe bridge. **The stationing shown is correct. However, refer to the note requiring that the contractor provide final field verification of bridge abutment locations based on existing site conditions.**
104. Drawings ENV-1.1, ENV-1.2, and ENV 1.3: Are areas outside of the designated AOEC, LLAOEC regions shown in the drawings assumed to be areas of Non-Controlled Materials? **Yes.**
- › What is the definition of Non-Controlled Material? **Material which does not require special management and disposal procedures. Reference Specification Section 00800A – Notice to Contractor-Environmental Investigations.**
 - › What are the threshold limits of Non-Controlled Material? **There are no threshold limits for the non-controlled material.**
 - › Does all Non-Controlled Material have to travel to the Soil Classification Area (SCA) for re-evaluation by the Owner and Engineer? **No. The Contractor should re-use controlled and non-controlled material on site whenever possible. For example: to backfill utility trenching under non-paved streets.**
105. It appears the Soil Classification Area (SCA) located at St. Johns Street is existing. Please address the following items:
- › Will the General Contractor be competing for space at the SCA with other on-going projects in the Middletown area? **No. The SCA is reserved for this project only.**
 - › Who is currently managing the SCA? **Management is by the Owner's Project Representative – Prime AE Group.**
 - › May the General Contractor use the existing bins at the SCA? **Yes, that is why they were left in place following completion of the force main construction contract.**
 - › On drawing ENV-4.2 it appears that the General Contractor will be adding bins and re-configuring an existing fence line at the existing SCA. Why is the existing SCA being re-configured for this project? **No site modifications will be necessary at the SCA.**
 - › Is there an alternate SCA if this location is full with material from other projects? **The WSA may be used for overflow of non-controlled materials provided that the controlled and non-controlled materials are separated.**
 - › Will the existing asphalt paving at the Waste Stockpile Area (WSA) located at Miles Lane require replacement at the end of the project? **The City has not yet determined a permanent use of this site.**

106. Section 700 Measurement and Payment:

- > Item 15: Selective Demolition: Where does soil excavation for demolition get paid? **Bid item 57 if it is for controlled material. Bid Item 82 for all other excavation.**
- > Item 40: Buried Structures: Is Item 40 for when unknown structure(s) are encountered during excavation? **There are known metal hatches, metal valves, and concrete with PCB containing paint. Estimated quantities are based on limited test pit observations, therefore, there may be additional quantities encountered during the project construction.**
- > Item 43: Earth Excavation and Screened Gravel BELOW Normal Grade: If required, will additional Support of Excavation and Dewatering be paid in Bid Item 43? **Dewatering is a lump sum Bid item. If added depth for sheeting is required, it shall be paid for under the applicable unit price bid item.**
- > Item 54: Testing Laboratory Services: Please confirm that the correct Special Provisions Section is 6.25 and not 6.24 as referenced. **6.25 TESTING**
- > Is the Owner responsible for all soil testing and all associated cost of the testing for the soil stockpiled at the WSA or SCA or is this part of the \$15,000 allowance? **The Owner is responsible for the cost of soil testing at the WSA. Testing is not required at the SCA because controlled material is prohibited from this area.**
- > Where is the Payment Item in Section 700 Measurement and Payment for excavated Non-Controlled Material transported to the Soil Classification Area (SCA)? **The SCA site is furnished for the Contractor's convenience. There is no pay item associated with the transport of non-controlled material to the SCA. The Contractor is paid by Bid Item 59 to load and transport the SCA non-controlled material back to be re-used within the Project Limits of Disturbance.**

107. DEEP Soil Staging Permit, Executive Summary, January 2016, page 7, 36-inch River Road Gravity Sewer Connection:

- > The paragraph at the bottom of page 7 mentions that the section of the Providence and Worcester Railroad the 54" casing is to go under is 'inactive'. Why is jack/bore associated with Bid Item 78: Pipe Crossing under Railroad required under an 'inactive' railroad? **The CT DOT directed the City to jack and bore or to use some other equally non-intrusive technique. (Project Meeting minutes October 24, 2013 – not furnished in this Addendum).**

108. Drawing S-5.4: Steel Details. Typical reinforcing detail at roof deck on Sheet S-5.4 shows the framing around roof openings to be C6x8.2. The note on Sheet S-1.6, between grid lines 8 and 11 states "L4x4x3/8 Typical around openings and RTUs (Unless Otherwise

noted)." Please clarify where detail 1/S-5.4 is to be used. **Use 1/S5.4 for penetrations 12" or smaller (reinforcing plate portion of the detail). The C6x8.2 portion of this detail will not be used and the L4x4x3/8 will control at larger openings (as per notes on the roof framing plan). Use detail 2/S5.4 for typical connections.**

109. Addendum #1 changed two items on the door schedule:
- > Door 105B no longer has a material specified, to match the response to question 69 issued in addendum #1, but door 115C is still listed as aluminum. Please confirm door 105B and 115C are no longer aluminum construction and are zinc coated cold rolled structural steel sheet. **See reissued Drawing A-1.1.**
 - > Question 72 issued in Addendum 1 was incorrect in stating the doors did not match the ground level plan, all doors previously on the schedule are on sheet A-1.1. Door 116, the only door into Room 116-Control Room, was removed from the door schedule. Revised sheet A-1.1 still shows door 116, please clarify why this door was removed and add it back to the door schedule. **See reissued Drawing A-1.1.**
110. The only specifications provided for the monorail hoist are located on drawing S-1.6. Please provide a full specification for monorail hoist as well as a bid item for this work. **See reissued Specification 14600-Hoists and Cranes.**
111. Please provide details for typical monorail to beam structural steel connection detail. **Connection details to supporting girders are the responsibility of the Contractor and are to be submitted for review and approval on the monorail crane shop drawings. Refer to notation on S-1.6.**
112. Referencing the existing plans provided as part of the supporting documents, it appears the smoke stack is actually located on the west side of the incinerator building. This means drawing C-7.1 and reissued drawing C-1.2 are incorrect. Please verify the smokestack is on the west side and the foundation plan on sheet C-7.1 is actually flipped. **The original contract drawings show the chimney located on the east side. Contract Drawing C-7.1 was developed from the original drawing of the Incinerator Building Plan of Concrete Piles.**
113. Reference drawing E-7.1, General note 7 and section 01600, paragraph 2.1.B.4. – The note on drawing E-7 states the Contractor shall coordinate the re-design of the pump if what is purchased is not Flygt Pumps. Section 01600 places this responsibility on the Engineer. Please clarify who is responsible for any coordination and associated cost (if any) should a pump be selected other than those manufactured by Flygt. **See reissued Drawings E-7.1; E-7.2 and E-7.3. See reissued specifications 11540A and 11540B. All three named pump system manufacturers offer functionally equivalent products.**

114. Addendum 1 Question 90 refers to Reissued drawing PI-1.3. No such drawing was issued in the Addendum. Please advise. **See reissued Drawing PI-1.3.**
115. Exhibit D document dated March 4, 2015, Entitled: Work Within, Adjacent to, and Above the Railroad Right-of-Way: Article 6 refers to an Access Agreement with associated processing/application fees. Has this Access Agreement been obtained and if not, who is responsible for fees? **The access agreement has not been obtained. The application fee will be paid by the Owner.**
116. Addendum 1 Bid proposal – There are numerous bid items where the unit of measure is Lump Sum, but you have identified estimated quantities in the description. Please clarify the intent of the estimated quantities. How will the quantities affect the pay items? **This error was addressed in Addendum 1.**
117. Section 01012. Paragraph 1.2.A – Do the “bidders” need to submit this information at the time of bid? **No.**
118. Addenda 1, page 7 question 13 – Conflict with existing utility poles. The “Contractors” selected means and methods to excavate 14’ below existing utility poles is to relocate the poles. Please confirm the cost of the relocation is part of the utility allowance. **It is not part of the allowance, Bid Item 2. Only one contractor has brought this matter into question. Note the existing sewer constructed in 2000 was constructed with the poles at their present locations and a deeper 10” sewer than what is being proposed.**
119. Bid proposal – Contractors checklist – You are requiring the bid proposal be submitted in duplicate. The bid form has 104 bid items and we are required to list subcontractors. These forms will be filled out in a vehicle and within a ½ hour of the bid submission time. The requirement for duplicate bid forms increases the possibility of math errors and/or inconstant bid forms being submitted. Can this requirement be modified to allowing the bidders to submit one original bid form? **Request denied by the City of Middletown.**
120. Contract Completion – Addendum 1 extended the final completion to 830 calendar days, but left substantial completion at 720 days.
- › As previously stated, in Addendum 1, we believe the project will take approximately 32 months to complete. It is possible to accelerate this to 28-30 months, but this will require multiple shifts and overtime. This opinion is based on a thorough review of all contract documents and the anticipated sequencing. The primary reason for the extended schedule is the demolition of the existing PCB material in the existing pump building. As indicated by the temporary roof support shoring within the existing building, this structure is on the verge of collapse making it unsafe to excavate adjacent to it and drive earthen support before the building is safely demolished. It will take at least 6 months from the contract signing date to complete the remediation of the existing PCB contaminated basement paint. Meaning we cannot begin excavation for the

proposed pump station for 6 months, which leaves 18 months to complete the excavation, shoring, piling, structural concrete, building and mechanical installation.

- › Concurrent with the PCB demolition, the new temporary pump station must be installed prior to the removal of this building. The electrical gear for the existing sewage pumps is located on the second floor of the existing building and must remain in place until the temporary pump station is operational. There is no design of this pump station or the required temporary generator. It will take at least 8 months to design, purchase, submit and approve, fabricate and install this temporary pump station.
- › The 24 month substantial completion schedule will drive a significant portion (basically the final 18 months) of the work being completed with multiple shifts and the ensuing overtime cost will be substantial.

There is approximately 5,000 square feet of PCB<50 ppm paint to be removed from the basement concrete walls. Based on our assessment of the work, six months to remove this material is excessive. There should not be extensive design necessary for installation of the temporary pump chamber and generator. No other bidder has requested extending the final completion date. The contract completion date will not be revised.

121. Bid Item 7 Steel Sheeting Left in Place, Section 700 Measurement and Payment: Are we correct in assuming that the “applicable height of steel sheeting” will be defined by the distance from the cut-off surface to the bottom of the driven sheet pile? **Yes, within the limits as ordered.**
122. Section 05100, Paragraph H – States, “The contractor is responsible to design all connections not completely designed on the contract documents, based on the loading information given in the contract documents and the paragraph on Requirements below. (A completely designed connection is only one that is specifically designated as such by the statement “Completely Designed as such on the contract documents.) All connections not indicated as “Completely Designed” shall be designed for the forces and/or connection design criteria called for in the contract documents.” After review of the contract documents, there are no connection details designated as “Completely Designed”. Please confirm that contractor is responsible to completely design the structural steel for this project. **The Contractor is responsible to completely design the structural steel connections. The columns, beams and braces are fully designed.**
123. The specification calls for a specific pump monitoring system with specific requirements. HOMA Pump should be able to provide a close functional equivalent. Do we need to match the specification exactly as written or is a close functional equivalent acceptable? **See reissued Specifications 11540A and 11540B.**

124. We would request that item 2.4 D.5 & F.9 & 10, be removed from the section 01320. This activity is very difficult to coordinate between the General Contractor and subcontractors and makes billings and payments to the subcontractors very difficult. **Request denied.**
125. Ref. A1-1 Valve Vault Roof - Drawing calls for floor hatches on the valve vault roof but Details 1, 3, 5/A-5-7 show roof access hatches. Are we to quote these hatches per Section 077200 Par. 2.4 Roof Hatch and is a safety rail system required at these locations and not safety grates? This Spec section calls for hatches to have a load rating of 300-lb/sf but they only manufacture these hatches with a rating of 40-lb/sf. What is required? **Referenced details are correct. This question was addressed in Addendum 1. Specification Section 083113-Access Doors and Specification Section 08630-Metal Framed Skylights were reissued.**
126. Can we get into the plant to look at the structures? **The Engineer is unable to respond to the question given the lack of context.**
127. Addendum No.1, Page 9 item 23 discusses the measurement and payment for the bid item. It does not state that sheeting is or is not required. It does not state that the sheeting will be required to be left in place and will be paid for under the sheeting bid items. Contractor's need to know if we have to carry sheeting as incidental and hope that you pay for the sheeting to be left in place or if we will be paid to leave it in place. **Incidental sheeting will not be paid. Permanent sheeting left in place will be paid. Because upon uncertainties always present at time of bid, these items are generally unit priced and are so for this contract. It is assumed that the bidder should be capable of making an educated estimate of the total square feet of permanent steel sheeting to be measured and paid for under Bid Item 7. The only permanent sheeting known a priori is the force main crossing at Sumner's Creek.**
128. We are respectfully requesting a minimum 2 week extension to the bid date. Following our review of Addendum 1 in where the response to question 18 states "A bid extension is under consideration." We are urging the Authority's consideration. Furthermore inasmuch as several of the responses to the questions (i.e., #41, #50, #54, #56, #59, #62 #80, #81, #83 through #86, #92 and #93) state responses are due in a subsequent addenda. Please note several of the responses that are due are material parts of the contract design. Therefore we believe a postponement is warranted. **The revised bid opening is August 11, 2016.**
129. Please reference Revised Bid Sheet 2-7 Item 23 and Specification 2080-1 Table 1 in where the revised bid sheet states there are 14 windows. However Table 1 states 3 different (8 EA - Window Caulk; 8 EA - Ext. Window Glazing; 14 EA - Interior Window Glazing) categories for pump building windows. Please confirm if there are 16 Windows, 30 Windows or 14 Windows. In the alternative if it is confirmed there are 14 Windows; Please confirm that there are: 8 of which have Exterior Window Caulk, Exterior Window Glazing Compound and Interior Glazing Compound, and 6 of which are interior windows and have Interior Glazing Compound on both sides of the window. **There are 14 windows.**

All windows have interior window glazing. Only 8 of these windows have exterior caulk and exterior glazing.

130. Please reference Revised Bid Sheet 2-7 Item 23 and Specification 2080-1 Table 1 in where the Bid Sheet states 14 Windows and Table 1 states 14 windows (believed to be 14 see question above). Please also reference Drawing HBM-1.2 in where Pump Building 1st Floor depicts 13 Windows. Please confirm the quantity of windows. **There are 14 windows.**
131. Please reference Revised Bid Sheet 2-7 Item 24, Specification 2080-2 Table 1 and Drawing HBM-1.2 in where the Bid Sheet sates 8 Incinerator windows, the Table states 4 Windows, and the drawing depicts 4 windows. Please confirm the quantity of Incinerator windows. **There are 4 exposed windows and 4 that were enclosed with CMU block. It is unclear if the window remains behind the CMU or if it was previously removed before CMU was installed. Therefore, 4 are known and there is potential for a total of 8 to exist.**
132. Please reference Addendum 1, Page 10, Question #23 in where the last sentence of the response states, "Bid Item 82 is for Pump Station Foundation construction". Please clarify this reference and the need for its inclusion in the response. **The pump station foundation and references stated within the question (i.e., force main subaqueous crossing, railroad crossing and highway crossing) are the project areas where permanent sheeting is anticipated.**
133. Please reference Addendum 1 Question #34 in where the response references "reissued Drawing C-2.4". This reissued drawing was not included with Addendum 1. Please provide. **See reissued Drawing C-2.4.**
134. Please reference Addendum 1 in the response to Question #90 references a revised Drawing PI-1.3. This drawing was not included with Addendum 1. Please provide. **See reissued Drawing PI-1.3.**
135. Please reference Addendum 1 Question 55 and the response to the third bullet point in where the question states "if the pavement is proposed please provide a detail". The response states to see Revised Drawing ENV-5.1 that depicts a full pavement section detail. Therefore, it is understood the pavement is proposed. Please specify the quantity of proposed pavement that is required. Furthermore please depict the existing conditions of the WSA location, including but not limited to, existing pavement thicknesses, soil types, etc. **Please reference the Note: *If the WSA is to be located on existing pavement such as roadway and or parking lot a composite pavement structure will not be required.* The WSA is to be located on an existing parking lot. The composite pavement detail is furnished only should additional unpaved area be required.**
136. Please reference Drawing G-0.4 Sequence of Construction Note 8. In where it states the 10" Maple Street Sewer is to be bypassed to the existing 36" East Main Street sewer prior to demolition of the Existing Pump Building. Please also reference Note 9 of the same

section that states the Sanitary Chamber on the South Side of the Pump Building is to be Protected and Maintained and Temporarily Braced and Sheeted as required. Inasmuch as the existing pump building is to be demolished following the 10" Maple Street sewer bypass and the Sanitary Chamber and the existing pump building foundations are poured monolithically please provide the limits of the existing pump station building demolition as it relates to the sanitary chamber. **For clarity sake, General Note 8 does not state the existing pump building has to be demolished following the Maple Street sewer bypass. However, it does state the existing pump building cannot be demolished until after the temporary bypass chamber and force main connections have been made.**

The General Contractor is requested to furnish his work plan documents requested under 02060 - 1.4 A. 1-7, including a stabilization plan, to protect existing "Critical" structures. The stabilization plan shall describe in detail his proposed shoring and bracing techniques to include the portion of the existing pump building basement and second floor (housing electrical gear for the existing sewage pumps) which can be removed (but only following the Maple Street sewer bypass connection), as well as the portion of the pump building basement that he intends to leave in place to support the proposed new work.

137. Please referenced revised specification 2060-1, Section 1.01, A.) 6.) in where the specification states that the existing piles can be left undisturbed or cut and capped a minimum 3 feet below final proposed grade. Please confirm the quantity of piles that can be left undisturbed. **Reference Bid Addendum 1 reissued Section 2- bid proposal and reissued Section 700 Measurement and Payment Items 19.**
138. Please reference revised specification 2060-1, Section 2.01, A.), 5. In where it states that piles are believed to exist for the existing fire training tower. Please provide a quantity of the fire training tower existing piles. **Our attempts to locate these plans have been unsuccessful.**
139. Please reference Revised Specification 2060-1, Section 1.01, A.), 3.) Where it states to "remove...former buried treatment tank piles and concrete substructures...interfering with the proposed new work." Please confirm to what limits the existing tank outside the New Building footprint is to be removed? Please also confirm if any of the fill within the existing structure is to be removed to expose the walls, floors, piping, etc. in the structure for hazardous material removal. **The Contractor is only responsible for removal, management, and disposal of materials encountered during the course of the project. There will be no additional excavation to uncover materials outside the limits of disturbance (i.e. new pump station building foundation and associated sewer construction).**
140. Please reference Drawing C-2.5 in where the plan references a "42" PVC Sewer". However on Drawing C-1.5 the same sewer line is depicted as a 36" Sewer Line. Please clarify the size of the line. **See reissued Drawing C-2.4. The proposed DI gravity sewer line size is 36 inch.**

141. Please reference Specification 2060-1, Section 1.01, A.), 7.) in where removal of underlying pavement concrete is referenced. Please confirm the total area and thickness of underlying concrete as well as whether or not it is reinforced. **See reissued Section 02060 (1 page). There is no evidence of underling concrete**
142. Please reference Specification 2060-1, Section 1.01, A.) 1.). Please confirm to what extent the existing pump building foundation is to be demolished, including but not limited to, Concrete, Piles, etc. **Only to the extent necessary in order to avoid construction interferences. The Contractor needs to furnish a Stabilization Work Plan as specified in Section 02060 – Selective Demolition.**
143. Please reference Specification 8630-3, Section 2.1, 1., a. in where the manufacturer “Wasco” is specified. However we have contacted Wasco and they have stated that they do not manufacture skylights that require venting larger than 4’x4’. This project requires venting of the skylight of 6’x6’. Please provide a manufacturer who will make the skylight as designed. In the alternative please consider reducing the size of the vents. **The vent size will remain 6x6. There are several other named OEMs listed in the referenced specification. Also WASCO will take custom orders as indicated on their web site.**
144. Please reference the PLA agreement in where the local unions are listed as signatory to the PLA. However we have been unable to reach the Plumbers & Pipefitters Local 77, and the Painters District Council 11. Please kindly provide a contact for these locals in order that we may contact and obtain rates for the referenced unions. **We expect the bidders would be capable of handling this detail using the furnished Prevailing Wage Rates.**