



FAYETTEVILLE PUBLIC WORKS COMMISSION

PROCUREMENT DEPARTMENT

<https://www.faypwc.com/bids/>

Bid Addendum

PWC Number: PWC2223058

Bid Title : Big Rockfish Creek Outfall Contract II

Bid Opening Date and Time: July 18, 2023, @ 2:00 pm

Addendum Number: 1

Addendum Date: July 6, 2023

Procurement Advisor: Tanya Hazlett
Tanya.hazlett@faypwc.com



1. Following are questions received about the solicitation and the SME's answers to the questions.

Q1. In Specification/Section 02762 – Manhole Lining Polymeric, the protective coating for the new concrete manholes, which are identified in bid item number 21, is specified to be a cementitious base coat material with an epoxy topcoat system. This system is also identified in the Measurement and Payment section. Specification/Section 02762 states this system is to be used in “existing manholes”. However, the concrete manholes are identified as new/proposed via the construction drawings. It's normal industry standard that new/green concrete manholes do not need a cementitious base coat, prior to the epoxy topcoat system. The cementitious base coat is used to rehabilitate “existing” concrete structures and used as an underlayment with an epoxy topcoat. Can clarification be made that the Manhole Lining system, which is intended for the new manholes, will be the polymeric systems specified – only – without a cementitious base coat/underlayment lining?

A1: There are specific manholes identified on the plans that require the manhole lining polymeric coating. While the project specification states “existing manholes”, this coating is permissible on the new manholes being installed. These manholes fall within the wetland setback requirements (NCDEQ 2T.0105N and Alternative Design Criteria for Minimum Separation of Sewer Systems to Wetlands), therefore it is required in the new manholes.

Q2. In Specification/Section 09801 – Anti-Microbial Admixture, the new concrete manholes are to receive this admixture at the precast manufacturer. Is the intent to have the new concrete manholes receive this admixture as well as receiving the Polymeric topcoat lining in the field?

A2: Yes. Cementitious coating is required, and a topcoat (polymeric) is also required.

Q3. Is there a CAD file available for this project?

A3: PWC typically does not share the CAD file(s) with the contractor at the time of the pre-bid. The CAD file may possibly be shared with the successful lowest, responsible bidder after award of the Contract, but it is not always shared with the Contractor.

- Q4: I am interested in qualifying my 4553 Epoxy Coating for the above-mentioned project. On page 7 of the manhole rehab spec 02762 there are several epoxy products named as approved for use. Over the years and in multiple projects 4553 Epoxy Coating has been approved as an equal for each of these. I would ask for your consideration and approval of 4553 Epoxy Coating for this project. In order to streamline the process, I wish to ask a question about the requirement on page 5 under PRODUCTS, paragraph 4.
“Any polymeric lining system that cannot provide test results of ASTM G 210 – will not be approved for this application. (ASTM G 210 – Standard practice for Operating the Severe Wastewater Analysis Testing Apparatus). I don’t understand the reason why operating an analytical testing apparatus is a feature or benefit of the epoxy system being used. Would you please clarify?
- A5: We believe this link will address or clarify PWC’s reasoning for including this requirement into their standard coating specification for linings being applied in a corrosive environment.

<https://www.highperformancecoatings.org/resources/what-is-swat-testing-why-is-it-important>

Copied and pasted from the link:

1.0 “As the industry came to grips with the need for more robust product applications to withstand the rigors of modern wastewater exposures, it also became clear to coating formulators that older testing protocols used to evaluate products were poorly suited to adequately represent the intended service conditions. Years of study around the lining failure modes observed in wastewater environments led the industry to the conclusion that a laboratory test method that would simulate an aggressive wastewater exposure and yield consistent, reproducible results.

2.0

ASTM G 210 was developed specifically to address this need. The key elements of the new test protocol and apparatus are controllable hydrogen sulfide concentrations, cyclic vapor phase and immersion in sulfuric acid and aqueous hydrogen sulfide solution, and elevated temperatures. Test results are reported as the delta of electrochemical impedance spectroscopy (EIS) results from before and after the twenty eight day test duration. EIS values are expressed as a Log Z value at 0.01 Hz, which can be used to determine the product’s

Attachments:

Pre-bid Minutes

Failure to acknowledge receipt of this addendum may result in rejection of the response.

Check ONE of the following options:

- Bid has not been mailed. Any changes resulting from this addendum are included in our bid response.
- Bid has been mailed. No changes resulted from this addendum.
- Bid has been mailed. Changes resulting from this addendum are as follows:

Execute Addendum:

Offeror: _____

Authorized Signature: _____

Name and Titled (Typed): _____

Date: _____

Big Rockfish Creek Sanitary Sewer Outfall Contract II
SRF#CS370434-15/16
Pre-Bid Conference
June 22, 2022, 2:00 PM
Virtual, PWC Operations Center

Agenda:

1. Welcome and Introductions
2. Project Overview
 - a. Sewer Installation
 - i. 11,180 LF of 24-inch Gravity Sanitary Sewer Main
 - ii. 3,595 LF of 18-inch of Gravity Sanitary Sewer Main
 - iii. 630 LF of **Guaranteed** Trenchless Installation on Part A of the Contract
 - iv. 60 EA Sanitary Sewer Manholes
 - v. 850 LF of 8-inch Gravity Sanitary Sewer Main
 - vi. 410 LF of **Guaranteed** Trenchless Installation under I-295 on Part B of the Contract (Alternate Add Part B)
 - vii. 1 EA Lift Station Abandonments
 - b. All trenchless crossings and installations are **Guaranteed**.
 - c. Part A Base Bid entails open cutting the deepest portions of sewer within Mariners Landing while meeting NCDOT's traffic control requirements, which permits a daily "rolling" road closure and requires the road to be fully re-opened to traffic at end of each working day.
 - d. Part C Base Bid also includes approximately 13 well abandonments and relocations of these wells to conform to minimum spacing requirements or variant spacing requirements approved by DEQ, and Cumberland County Health Department.
 - e. Part B is an add alternate for the Camden Glen lift station elimination.
3. Bid Items
 - a. Questions due by 5:00 p.m., Thursday, June 29, 2023
 - i. Submit in writing to Tanya Hazlett, Procurement Advisor
(tanya.hazlett@faypwc.com)
 - b. Addendum #1 expected to be issued by Thursday, July 6, 2023 and is expected to include:
 - i. Answers to initial questions received.
 - ii. Pre-bid Minutes
 - c. All Bids are due at 2:00 p.m., Tuesday, July 18, 2023.
 - d. Bid acceptance period of one hundred fifty (150) calendar days unless otherwise noted.
 - e. Notice to Proceed expected in January 2024 so material orders and deliveries can be secured.

- i. Due to continued long lead times, PWC expects the 670-day contract duration to be delayed until January 2024, or at an established date when sufficient material has been secured and delivered and when delivery schedule of remaining material has been confirmed to begin project without multiple starts and stops.
 - f. 670-day contract duration
 - i. Calculation for Sewer Installation from Station 116+89.41 to Station 264+63.60 plus Part B: Approximately 40 LF for sewer installation per day, approximately 100 days for mobilization, approximately 100 days for well abandonments/relocations, approximately 100 days for punch-list and clean-up, testing and restoration.
 - ii. No weather days are included in Contract Time Calculation
 - g. \$1,500 per day liquidated damages all portions
 - h. A Bid Bond is required for this project and must be submitted with all bids.
 - i. All prospective bidders should thoroughly review the Bid Evaluation information listed in the Bid Proposal Section of the Contract Documents. If any information is omitted, the submitted bid may be considered incomplete. Incomplete bid packages may be rejected as non-responsive. A Bid Evaluation Checklist has been provided but may not be all inclusive.
- 4. Division of Water Infrastructure Special Conditions, DBE and Local Participation Requirements (Procurement)
 - a. Since this project is funded through a State Revolving Fund Loan, the SRF program includes provisions which establish goals and other requirements to participation by certified Minority Business Enterprises (MBE)/ Women Business Enterprises (WBE), wage rates set forth under the Davis Bacon Act and requirements of the American Steel Act.
 - b. The Bidder to whom the contract is awarded shall comply with the statutory requirements of these provisions.
 - c. EPA MBE/ WBE participation goals: MBE 10.9%/ WBE 10.4%
 - d. State of NC MBE/ WBE participation goals: 10% (combined)
 - e. Contractors are required to give DBE Contractors the opportunity to quote the work.
 - f. All DBE documents required to be submitted with the bid are marked as such. Good faith opportunity efforts shall be documented. If the goal is not met, Contractor will be required to show that good faith efforts were made.
 - g. If a subcontractor is selected or changed after execution of the contract, DWI will require MBE/ WBE documentation.
 - h. PWC promotes utilizing local businesses for services and supplies.
 - i. By submitting a bid, the Bidder agrees to comply with the E-Verify and Iran Divestment Acts.
 - j. Bidder must submit the executed American Iron and Steel (AIS) Certification with submittals for approval of the materials and any waiver requests with their bid.
- 5. Contract Items
 - a. Section A-Project Specifics
 - i. General
 - ii. Bid Submittal Documents
 - iii. DWI Requirements
 - b. Section B-Contract Execution Documents
 - i. Contract Forms and Supplemental Forms
 - c. Section C-Administrative Provisions

- i. General Requirements including General Conditions, Special Conditions and Measurement and Payment
 - d. Section D-Technical Specifications
 - e. Section E-Well Abandonment/Relocations Requirements and Technical Specifications (to be issued by addendum)
 - i. Requirements include Special Conditions and Measure and Payment
 - ii. Technical Specifications include well, electrical, plumbing, and other material requirements for this work
 - f. Appendices-Geotechnical Investigation, Permits/Encroachments, Easement Control Worksheet, etc.
 - i. The following permits are in the process of being renewed, extended, and/or resubmitted with intentions to be made available prior to Notice to Proceed (NTP)
 - 1. NCDEQ DEMLR Erosion & Sediment
 - 2. NCDEQ 401 Water Quality Certification
 - 3. 404 Nationwide Permit Verification
 - g. Appendix E-Well Abandonment/Relocations Approvals
- 6. Construction Issues
 - a. Encroachments
 - i. NCDOT U2519BA/BB Design Build Encroachment (E062-026-22-00123)– transfer hold harmless agreement to Contractor and no access within right of way regardless of whether road construction is completed or not completed.
 - ii. NCDOT E062-026-20-00167/E062-026-22-00468 (Lake View Road) – Bonding Requirements include Performance and Indemnity Bonds in the amount of \$2,421,835.00.
 - iii. NCDOT E062-026-20-00168/E062-026-22-00469 (Lake Farm Road) Bonding Requirements include Performance and Indemnity Bonds in the amount of \$543,075.00
 - iv. NCDOT E062-026-20-00169/E062-026-2200470 (Mariners Landing Drive) Bonding Requirements include Performance and Indemnity Bonds in the amount of \$2,436,395.00.
 - v. NCDOT E062-026-20-00170/E062-026-22-00471 (Camden Road).
 - vi. LREMC (See Sheet C-15) – The Contractor is responsible for coordination with LREMC and PWC Project Coordinator to relocate the pole and guy wire a minimum of three calendar days from the Notice to Proceed. The Contractor and PWC Project Coordinator are responsible for coordinating a location outside the work area that will present no conflicts during construction and maintenance of sewer easement. PWC will pay for relocation charges by LREMC for pole and guy wire relocation, if LREMC charges for said work.
 - b. Easements
 - i. Easement acquisition is complete at this time.
 - ii. The Contractor is expected to adhere to the easement special conditions listed in Section 01000 of the Contract Documents. The easement special conditions are also noted on the plans and as noted in Item 7 of this agenda.
 - iii. Any additional special conditions will be provided by addendum
 - iv. Easement map status and locations of potential condemnations are disclosed on the map which will be made available by the Pre-Bid Meeting Minutes and via addendum.

- c. Customer Service-It is expected that the Contractor recognize they are working in public right of ways, on private property and adjacent to and within subdivisions. All personnel are to be respectful and courteous. The Contractor shall follow the Contract requirements for dealing with complaints that may arise during construction. Special attention is called to the working hours provided within the Contract Documents. The working hours will be enforced. There will be no work on weekends and PWC recognized holidays.
- d. Testing and Acceptance
 - i. Compaction testing will be conducted in accordance with the Contract Documents.
 - 1. Compaction testing will be coordinated by the PWC Project Coordinator.
 - 2. PWC will contract directly with the materials testing firm and pay for all initial compaction testing. However, the Contractor will be charged for all retests and bracket testing for failed compaction testing.
 - ii. Testing of the sewer mains and manholes shall be conducted in accordance with the Contract Documents.
 - 1. Reference Special Condition 01000 (Item # 46) for hydrostatic testing of all sewer mains where sewer is less than 100 feet from a private well, for all stream and wetland crossings and where sewer is less than 50 feet from a wetland.
 - 2. Contractor shall coordinate with the PWC Project Coordinator two (2) business days prior to schedule testing.
 - iii. Specialty Testing – Where vibration monitoring is needed or specified, it will be performed through an allowance established in the bid form. Contractor shall employ a testing firm based on PWC's approval and use allowance to pay for these expenses.
- e. Traffic Control-Traffic Control shall be in accordance with the most recent edition of the MUTCD, NCDOT Standards, and the Approved Traffic Control Plan. The Contractor is required to submit traffic control plans for approval to the Project Engineer for work in NCDOT, the Town of Hope Mills, and City of Fayetteville roadways. These plans shall be approved prior to work beginning in any roadway. In accordance with the Contract Documents, the Contractor shall notify the entity responsible for operation and maintenance of the roadway (the Town of Hope Mills, NCDOT, or City of Fayetteville) and PWC by close of business the Wednesday of the previous business week indicating which roadways will be affected by the work for the upcoming week. This notification shall include a brief sketch. The Contractor shall abide by all NCDOT, Town of Hope Mills, and City of Fayetteville requirements when working within their respective rights of way.
- f. Erosion Control-The Contractor will be required to abide by the approved erosion control plan and permit daily. The Contractor is also required to submit a supplemental erosion plan for their staging areas to NCDEQ for approval. Upon completion of the project, the staging areas shall be seeded and ground cover established, in accordance with the requirements of the erosion control permit.
- g. Water Services-The majority of this project is outside of any congested utility corridors. Any incidental damage to existing water services shall be repaired to utility owner's requirements. If an AQUA water service is damaged during construction, the Contractor is expected to replace the water service from main to meter with poly pipe. If any damage to facilities occurs, the PWC Project Coordinator and the AQUA representative shall be notified.
- h. Restoration shall be in accordance with the Contract Documents.

- i. Areas outside the project limits that are damaged shall be considered collateral damage areas and shall be restored with sod at no cost to PWC.
 - ii. NCDOT roadways (Lakeview, Lake Farm, and Mariners Landing)- Contractor will perform full street-width street replacement conforming to street restoration detail. The Contractor will mill and overlay to tie back into the existing roads.
 - iii. Hope Mills-PWC's standard pavement repair detail along with mill and overlay to the designated limits on the drawings
- i. Staging Area requirements can be found in Section 01000 (Item #26) of the Contract Documents. The Contractor is required to submit a plan to PWC, as indicated in the Contract Documents. Any Temporary Use and Truck Route Permit fees shall be the Contractor's responsibility. An approved supplemental erosion control plan is also the Contractor's responsibility.
- j. Temporary Driveway Permits with NCDOT will be submitted for the proposed temporary construction entrances on Waldos Beach Road, Lakeview Drive, Lake Farm Road, and Camden Road. Each access will require the installation of driveway culverts. When work is completed, the access and driveway culvert is to be removed and the area restored in accordance with the plan and permit requirements. Bond amounts are set at \$10,000 per location per driveway. Driveway permits must be renewed every 90 days. PWC shall be responsible for obtaining the initial driveway permits and application fees. The Contractor shall be responsible for obtaining and renewing temporary driveway permits and application fees (\$50 per driveway) thereafter.
- k. The Contractor is required to post a Performance and Indemnity Bond with the Town of Hope Mills in the amount of \$579,000, based on the opinion of probable construction cost (OPCC) that was developed by the engineer for the cost of replacing Hope Mills roadway infrastructure related to the designated haul route to access the Camden Glen Lift Station elimination outfall (See Sheet A-8 detailing the streets of Pine Cone Lane, Redspire Lane, and Ritson Lane). Proof of payment of the required Performance and Indemnity Bond is to be submitted to PWC with the initial payment request.
- l. Construction access is restricted to certain areas, as detailed on the plans, at the following locations:
 - i. Contractor must use specified construction access points, as described herein, or as negotiated by the Contractor. **The Contractor may not cross the NCDOT I-295 corridor for construction access at any time.** The Contractor shall be prepared to utilize an in and out approach to access corridor on each side of this controlled access right-of-way.
 - ii. Contractor shall utilize an in and out approach to access the corridor between SSMH 45 and Lakeview Drive.
 - iii. Contractor shall utilize the easternmost connector for Lakeview Drive to Waldo's Beach Road as the dedicated haul route as designated on Sheet A-8 to access sewer installation between MH 50 and Lakeview Drive, and along Lakeview Drive to MH 58.
 - iv. Contractor shall utilize the easternmost connector for Lakeview Drive to Waldo's Beach Road or Waldo's Beach to the sewer easement to access the sewer installation MH 58 and MH 61.
 - v. Contractor shall utilize Waldo's Beach Road to access the sewer installation between MH 61 and MH 65. A combination of Waldo's Beach Road and the

designated haul route from Camden Road to Mill Creek Road to Lake Farm Road to access the sewer installation between MH 65 and MH 73.

- vi. No construction traffic is permitted access across the permanent sewer easement on Parcel #33 on Sheet C-18. Access to the receiving pit shall be through the dedicated haul route on Mill Creek Road to Lake Farm Road. Access to the jacking/launching pit shall be through Mariners Landing Drive as designated on Sheet A-8.
 - vii. Contractor shall utilize designated access/haul route on Northbank Street from Camden Road to Mariners Landing Drive to access sewer installation from SSMH 75 to SSMH 91. Mariners Landing Drive is a looped residential street. Contractor is not permitted to utilize the eastern portion of this looped street for any construction access. This portion of the street shall only be utilized to redirect local traffic as designated on traffic control Sheet TC-2.
 - viii. No construction traffic is permitted across the permanent sewer easement on Parcel #33 and Parcel #34 on Sheet C-18. Access to the receiving pit shall be through the dedicated haul route on Mill Creek Road to Lake Farm Road. Access to the jacking/launching pit shall be through Mariners Landing Drive as designated on Sheet A-7.
 - ix. No construction traffic is permitted across the permanent sewer easement on Parcel #35 and #36 on Sheet C-20. Access to the receiving pit shall be through the dedicated haul on Northbank Street to Mariners Landing Drive. Access to the jacking/launching pit shall through the Camden Road construction access as designated in Sheet A-2 and as shown on Sheet C-20. Foot traffic to permit hand clearing as defined in Paragraph 21 on Parcel #35 using an in and out approach from Mariners Landing Drive herein is permitted.
 - x. Contractor shall access launching pit for the trenchless installation between SSMH 91 and SSMH 92, launching pit for the trenchless installation between SSMH 107 and SSMH 163 (Peartree Estates/ Camden Glenn Lift Station elimination outfall) and sewer installation from SSMH 92 to SSMH 107 using an in and out approach via the Camden Road construction access. No construction access is permitted to this corridor using any portions of I-295. No disturbance is permitted within any portions of the I-295 right of way.
 - xi. Contractor shall utilize the designated haul/access route as shown on Sheet A-8 entailing Pine Cone Lane, Redspire Lane, and Ritson Lane to the Camden Glen Road construction access to access the receiving pit for the trenchless installation between SSMH 107 and SSMH 163 and the sewer installation from SSMH 163 to SSMH 165. This designated haul/access route shall be bonded as identified in Paragraph 22 herein.
7. Special Property Owner Considerations for sewer main (outfall) installation (per Section 1000 and indicated on Drawings)
- a. **Parcel 23, 6748 Waldos Beach Road:** The Contractor shall provide a ninety-day (90) notification to PWC regarding work on this parcel.

The Contractor shall erect safety fencing along the limits of the construction corridor through this property and provide signage and temporary detour routes to redirect tenants and patrons of the RV park safely around the work area.

The Contractor shall maintain access to Waldo's Beach Campground and Swim Park during normal business hours, which are considered to be 10:00 am to 5:30 pm Sunday through Saturday. The Contractor shall maintain no less than two (2) points of access to the existing pool house at all times during construction.

The Contractor shall coordinate with PWC Project Coordinator a minimum of 14 calendar days so property owner can temporarily relocate parking disturbed by construction. The Contractor shall coordinate with PWC Project Coordinator and property owner a minimum of 14 calendar days to initiate the location of the private water main from the existing well that serves the RV park. The Contractor shall be responsible for locating the water main prior to initiating the sewer construction in accordance with Paragraph 32 herein and protect the existing utility in accordance with Paragraph 31.

The Contractor shall coordinate with PWC Project Coordinator and property owner a minimum of 14 calendar days to initiate the location of the private water, sewer, telephone, cable, internet, and electrical services in the vicinity of the sewer main alignment from approximate Station 176+50 to Station 179+75 that serve the RV bays. The Contractor shall be responsible for locating these services prior to initiating the sewer construction in accordance with Paragraph 32 herein and protect the existing utility in accordance with Paragraph 31.

The Contractor shall also be responsible for providing temporary services to maintain drainage, water, sewer, telephone, cable, internet, and electrical hookups and permanently replacing all drainage, water, sewer, telephone, cable, internet, and electrical services, risers, equipment racks, etc. that conflict with the sewer installation. All temporary and permanent utility facilities shall be in accordance with all local and state building and inspection codes and requirements.

- b. **Parcel 28, 7075 Lamplighter Drive:** If damage to the septic system and drain field occurs as a result of the project construction, Contractor shall repair the system as necessary to original condition or better. If damage cannot be repaired, then Contractor shall be responsible for the property's septic pump and haul operations until the Contractor can connect the property to the outfall.
- c. **Parcel 33, 7341 Mariners Landing Drive:** This property shall not be utilized for construction access between Lake Farm Road and Mariners Landing Drive. Ingress and egress is only permitted for installation of the boring/launching pit as shown on Sheet C-18. No equipment or any kind shall be permitted elsewhere on this property, and no material of any kind shall be permitted elsewhere on this property. The driveway shall not be disturbed during construction.
- d. **Parcel 34, 7345 Mariners Landing Drive:** This property shall not be utilized for ingress and egress. No equipment or any kind shall be permitted on this property, and no material of any kind shall be permitted on this property. The driveway shall not be disturbed during construction.

If damage to the existing septic system components occur as a result of project construction, the Contractor shall repair the system as necessary to original condition or better. If damage cannot be repaired, then Contractor shall be responsible for the property's septic pump and haul operations until the Contractor can connect the property to the outfall.

If any damage to the existing irrigation system components occurs as a result of project construction, the Contractor shall repair the system as necessary to original condition or better.

- e. Parcel 35, 7105 Mariners Landing Drive:** The existing fence on this property shall not be disturbed or damaged as a result of project construction. No access will be permitted through the fenced portion of this property. No access shall be permitted in the back yard.

Removal of the existing River Birch tree and Bradford Pear tree (See Tree Schedule, Item 6 and 9 on Sheet C-20) located within the permanent easement area, shall be done by hand, and the stumps ground utilizing equipment that will not damage existing septic system components. If damage to septic system and drain field occurs as a result of the project construction, Contractor shall repair the system as necessary to original condition or better. If damage cannot be repaired, then Contractor shall be responsible for the property's septic pump and haul operations until the Contractor can connect the property to the outfall.

There shall be no ingress or egress across this parcel except as may be necessary for the removal of the trees and any landscaping items designated as needing to be removed by PWC.

No material storage on this property will be allowed.

If damage to the irrigation system or landscape lighting on this property occurs as a result of project construction, the Contractor shall repair the component(s) or system(s) as necessary to original condition or better.

- f. Parcel 36, 7115 Mariners Landing Drive:** Contractor shall erect a temporary, six (6) foot high chain link fence adjacent to the temporary construction easement on the eastern side of the permanent utility easement to keep pets and small children out of the work area. Temporary gate shall be provided to permit construction entrance and alleviate any unauthorized use of temporary construction entrance.

Access to the rear yard for tree removal shall be made from the Camden Road side of the project easement area. The gazebo located on this property shall not be disturbed. The neighbor's fence, located on the common property line, with arched top panels, shall not be disturbed.

If damage to septic system and drain field occurs as a result of the construction, Contractor shall repair the system as necessary to original condition or better. If damage cannot be repaired, then Contractor shall be responsible for the property's septic pump and haul operations until the Contractor can connect the property to the outfall.

There will be no material storage on this property.

8. Special Property Owner Considerations for well abandonment/ relocation
9. Project Specifics:
 - a. HDPE Encasement- Pipe shall be butt-fused and interior electrofuse weld bead shall be removed prior to installation of sewer carrier pipe.
 - b. Downstream or receiving sewer for Camden GlenLift Station shall be operational and accepted prior to diverting flow and abandoning lift station. Contractor shall sequence work so that minimal disruption of flow and minimal duration of bypass pumping occurs. Bidders are also reminded of construction sequence for the initial sections of Peartree Estates elimination outfall main that crosses the cul-de-sac as noted on Sheet C-36A. Critical elements to address before constructing this portion of the sewer include:
 - a. New sewer operational downstream of lift station
 - b. Implementing bypass plan upstream of lift station
 - c. Constructing temporary sanitary sewer for 3257 Hunting Lodge Road
 - d. De-energizing circuit that powers lift station
 - e. Cutting in isolation valve on 2-inch water main to allow existing services to remain unimpeded and to provide the ability to shut off end of the main blow-off assembly and the existing service that supplies water to lift station
 - c. Contractor is responsible for developing work plan of diverting flows of perennial and/or intermittent streams during crossings. Work within streams must be in a dry condition and comply with 401/404 Water Quality Certifications. It shall include the engineering of an acceptable diversion dam and stream flow bypass system.
10. Design Engineer Comments
 - a. Design was updated based on current NCDEQ 18(c) & 2(t) rules. The following sections are changed to restrained joint C900 PVC from previous bid:
 - i. Sheet C12/C13-SSMH50 to SSMH51
 - ii. Sheet C13-SSMH51 to SSMH51A
 - iii. Sheet C13-SSMH51A to SSMH52
 - iv. Sheet C13-SSMH52 to SSMH52A
 - v. Sheet C13 – SSMH52A to SSMH53
 - vi. Sheet C13 – SSMH53 to SSMH64
 - vii. Sheet C13 -SSMH54 to SSMH54A
 - viii. Sheet C13/C14 – SSMH54A to SSMH55
 - ix. Sheet C14 – SSMH55 to SSMH55A
 - x. Sheet C14 – SSMH55A to SSMH56
 - xi. Sheet C14-SSMH56 to SSMH57
 - xii. Sheet C14 – SSMH57 to SSMH58
 - xiii. Sheet C15 – SSMH61 to SSMH62

- b. Select portions of the Outfall outside manicured landscape areas are to be seeded instead of sod.
 - c. All survey requests will go through WK Dickson and sent to McKim and Creed. McKim and Creed will do the construction staking and cut-sheets.

- 11. Town of Hope Mills Comments- None.

- 12. Division of Water Infrastructure Comments: Not present. AJ Riddle explained that there will be specific requirements by DWI that will need to be followed including Davis-Bacon Wage requirements, AISC forms, etc.

- 13. Additional Discussion: Work will start near Lake Upchurch, which will NOT be lowered. Dewatering is the responsibility of the contractor. There is not a line-item for dewatering in this contract as it is part of the performance of the work.

- 14. Questions
 - a. Can the Contractor go look at the site, or do you need to get permission? If you are going to go on properties, let PWC know through Tanya Hazlett. Introduce yourself to any owners, and make your presence known.

 - b. Any further questions should be directed to Tanya Hazlett before June 29, 2023 at 5pm.

- 15. Adjourn