



**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY**

**ORCHARD STREET AREA SEWER SEPARATION**

**Project CWF 2019-05**

**ADDENDUM #3**

**August 3, 2022**

**BIDDERS MUST ACKNOWLEDGE RECEIPT OF THIS ADDENDUM # 3  
AND ALL PREVIOUS ADDENDA IN THEIR PROPOSAL**

**Bidders are hereby informed that plans and specifications for the above-mentioned project are modified, corrected, and or supplemented as follows and that Addendum #3, complete with the enclosures, becomes part of the Contract Documents.**

**A. BID DUE DATE REVISED TO AUGUST 30, 2022 AT 10:00 AM LOCAL TIME:**

1. Sealed Bids for project CWF 2019-05 are due no later than 10:00 AM Local Time on Tuesday August 30, 2022, at GNHWPCA Headquarters, 260 East Street, New Haven, CT 06511, at which time they will be opened in a virtual bid opening. Be advised the GNHWPCA offices are not open to the public and Bidders are solely responsible to make certain their bids are received in a timely manner.
2. The Bid Opening will be held virtually via Microsoft Teams. To attend the bid opening, you may click on the following link: [Click here to join the meeting](#) at the time of bid opening. All bidders will be provided an email with the unofficial bid results shortly after the bid opening.

**B. QUESTIONS SUBMITTED:**

1. Can there be a Cost Escalation Factor for items whose prices may be volatile?
  - i. **RESPONSE:** An Asphalt Adjustment Cost Allowance will be added to a revised Itemized Proposal to be provided under a subsequent Addendum. The Method for calculating the adjustment, increase or decrease, is provided in Supplemental Technical Specification 1575, included in Addendum 3. The Asphalt Adjustment Cost will not apply to any Temporary Pavement Repairs to Trench in Roadways or Sidewalks, Bituminous Concrete Cold Patch, or Hybrid Asphalt whether on Local Roads or Collector Roads, related to the Contractor's



**work or Utility Work. The Asphalt Adjustment Cost Allowance is to be calculated for Bituminous Permanent Pavement Repair Items used in Skim Coat, Trench Repair, Utility Trench Repair and Overlay. The Base Cost used in calculating the Asphalt Adjustment is \$735.00/Standard Ton, English units.**

2. There does not appear to be an item for Tack Coat or Joint Sealant required for Permanent Pavement Repair. How are these paid for?
  - i. **RESPONSE: The costs associated with providing and installing Tack Coat and Joint Sealant required for Permanent Pavement Repair are to be included in the various items for Permanent Pavement Repair.**
3. Please confirm if each individual storm manhole requires a separate shop drawing and PE stamp for each manhole as stated in the project specifications.
  - i. **RESPONSE: The requirement is Section 1505 Part 1.3.C for a Professional Engineer to design each individual storm manhole will relate to each different type of storm manhole. A manufactured precast manhole shop drawing may include various sizes on one submittal bearing the engineer's seal. Cast in place manholes will each require a separate shop drawing bearing the engineer's seal.**
4. Per the project documents, storm manholes require flexible connections (boots). Are these required on storm manholes, or can the connection between the manhole and pipes be mortared?
  - i. **RESPONSE: The storm drain connections between manholes and pipes may be mortared in the field and do not require manhole boots. The connections from catch basins will be determined in the field and will require coring in the field, therefore a manufactured rubber boot cannot be installed by the precast manufacturer.**
5. Can you provide additional information about the sanitary pipelines to receive CIPPL? What are the existing Flow Rates for each of the sewers for all streets within the project? Will the CIPP Lining Contractor be allowed to install liner at night during off peak flow hours?
  - i. **RESPONSE: Design, installation and operation of Temporary Bypass Pumping is the responsibility of the Contractor. Contractor may consider flow metering/monitoring as part of their design of the temporary bypass system to further refine these figures. Installation of CIPP Lining at night is one option that may be proposed. Additional information concerning each of the segments to receive CIPPL is enclosed with this Addendum.**



6. Can the monitoring required for Bid Item – Temporary Bypass Pumping be done remotely or does there need to be a watchman on site?
  - i. **RESPONSE: Monitoring of individual laterals or drains that are being bypassed may be done remotely. Bypass Pumping for the Sewer Main must be monitored in person on site.**
7. Please define what roads are Collector Streets and what roads are Local Roads?
  - i. **RESPONSE: Collector Roads include Orchard St, Chapel St, Sherman Av, The Rev. Dr. Martin Luther King Jr. Blvd, and George St. The balance of the Roads is considered Local Roads. All unit prices bid should account for the true cost of providing the item being bid, independent of other work items.**
8. Restoration Plan Sheets identify milling and paving as an alternate, but there are no alternates in the bid sheets. How is it to be bid?
  - i. **RESPONSE: Prior to the start of Permanent Pavement Repair, the Owner and Engineer will review the condition of roadways in consultation with the City of New Haven and direct the contractor as to which method to be used on the various roadways. The pricing bid for each of the items are to include the work necessary to perform the unit of work, independent of other work items.**
9. Bid Item - Bit Conc Collector HMA S1.0, 9", where do we place 2-4.5" courses of HMA S1.0?
  - i. **RESPONSE: When directed to Mill and Pave Collector roadways, the Permanent Pavement Repair to be performed prior to the milling will consist of Bid Item Bituminous Concrete Trench Repair (Collector) HMA S1.0 Level 2, Thickness 9" (2 – 4 1/2" courses), rather than Bid Items for Trench Repair consisting of 6" (2 – 3" courses) of HMA S1.0 and 3" (2 – 1 1/2" courses) of HMA S0.5.**
10. What Level HMA S0.5 is required for this project?
  - i. **RESPONSE: The HMA S0.5 pavement shall be designed to Traffic Level 2.**
11. Please confirm that all permanent pavement repair for utility trenches will be done by the contractor.
  - i. **RESPONSE: The Utility Trench Permanent Pavement Repairs are to be done by the Contractor. As the Contractor does not have control of the excavation method being used by the utility, the payment limits will be as required for the repair. A Bid Item will be added in a subsequent addendum for Utility Trench Course (Collector) HMA S1.0, Thickness 9" (2 – 4 1/2" courses) for Collector Roads that will be milled and paved.**



12. Does the select fill around the storm drainage need to be wrapped in filter fabric?
- i. **RESPONSE:** The select fill around the storm drainage pipe does not need to be wrapped in filter fabric. Note that the detail for new sanitary sewer requires a filter fabric wrap.
13. Does GNHWPCA expect the contractor to start this October and shut down December 1<sup>st</sup> or will a spring start date in 2023 be acceptable?
- i. **RESPONSE:** The start date will be determined at the time of contract signing and as part of the Notice to Proceed. There are a series of advanced work items that could be performed within the winter months including utility coordination.
14. Please provide a list of locations and types of trees to be provided under the item "Approved Tree (3" Caliper) from the City of New Haven's Tree List"
- i. **RESPONSE:** The locations of the replacement trees will be determined during construction within a one-mile radius of the project limits, along City streets. The species selection will vary depending on the location. The Bid Item has been revised to three separate items, all 3" Caliper. Please reference the revised Itemized Proposal Forms. A copy of the URI/New Haven - Approved Trees for Planting in the Public Right of Way (aka City of New Haven's Tree List) is attached for information. The three Bid Items include:
1. One for "Small Tree (3" Caliper) from City of New Haven's Approved Tree List" Suitable for Planting Under Utility Wires,
  2. One for "Medium Tree (3" Caliper) from City of New Haven's Approved Tree List" - Sometimes Suitable for Planting under High Utility Wires, and
  3. One for "Large Tree (3" Caliper) from City of New Haven's Approved Tree List" - Not Suitable for Planting Under Utility Wires.
15. Please furnish a Utility Relocation Schedule detailing size, type, locations, and duration of all utility relocations.
- i. **RESPONSE:** The utilities to be relocated are shown schematically on the project plans. The size, type, exact locations, and durations are to be determined by the utility companies. Coordination with the utilities, as well as providing elevation data for clearance to proposed work are considered the responsibility of the Contractor.



16. Can the distance from the project site for Special Specifications Item 102-16 “Note #9 Engineers Field Office”, Bid Item Construction Field Office (Medium), be increased from ¼ mile of the Project Site?

i. **RESPONSE: Special Specification 102-16 “Note #9 Engineers Field Office” distance has been increased from ¼ mile from the project site to within One-Half (1/2) Mile of the project site. The location and facilities continue to be subject to the approval of the Engineer.**

17. Does Bid Item – Test Pit Conventional Excavation include the Temporary or Permanent Pavement Repair?

i. **The Bid Item - Test Pit Conventional Excavation does not include the Temporary or Permanent Pavement Repair. That will be paid for under the appropriate Bid Item. Note that the Bid Item - Test Pit Vacuum Excavation includes the Temporary Pavement Repair.**

18. Bid Items for the Lateral Connection Cleaning and Sanitary Sewer Lateral Television Inspection are bid at a per lineal foot price. There are variations for cleaning and inspections when done from the sewer main depending on the size of the main. Can the items be broken down depending on the size of the sewer main?

i. **RESPONSE: There is no requirement that the Lateral Connection Cleaning and Sanitary Sewer Lateral Television Inspection are done from the sewer main. There is no adjustment to the Bid Items.**

19. What is the length of laterals to be lined under the Sewer Lateral/Sewer Main Connection Lining Bid Item, where are these laterals located, and can there be separate unit prices for each of the size sewer mains in the project?

i. **RESPONSE: The minimum length for each lateral to be lined is 18” from the sewer main into the lateral connection. The determination of which lateral connections that will be lined will be made during the cleaning and CCTV inspections and further refined during the Post CIPPL inspection. There will not be separate bid items for each of the various size sewer mains that may have the lateral connections lined.**

**END OF ADDENDUM 3**

**ENCLOSURES:**

- Special Technical Specification 1575 – Asphalt Adjustment Cost
- URI/New Haven – Approved Trees for Planting in the Public Right of Way
- Sanitary Sewer Pipe Information for CIPPL

## SECTION 1575

### ASPHALT ADJUSTMENT COST

#### PART 1 – GENERAL

##### 1.1 SUMMARY

- A. The Asphalt Adjustment Cost will be based on the variance in price for the performance-graded binder component of hot mix asphalt (HMA) Overlay and Permanent Pavement Trench Repairs completed and accepted during the Contract. The Asphalt Adjustment Factor is NOT used for Bid Items for Temporary Pavement, Bituminous Concrete Cold Patch, and Hybrid Asphalt Trench Repair.

**The Asphalt Price is available on the Department of Transportation website at:**

<http://www.ct.gov/dot/asphaltadjustment>

#### PART 2 – EXECUTION

##### 2.1 CONSTRUCTION METHODS

- A. An asphalt adjustment will be applied only if all of the following conditions are met:
1. *The total quantity for all HMA mixtures in the Contract or individual purchase order exceeds 1000 tons or the Project duration is greater than 6 months.*
  2. The difference between the posted *Asphalt Base Price* and *Asphalt Period Price* varies by more than \$5.00 per ton.
  3. Regardless of the binder used in all HMA, the Asphalt Adjustment Cost will be based on PG 64-22, New Haven, Connecticut.
  4. The Asphalt is installed as Permanent Pavement which includes the Bid Items for Bituminous Concrete Overlay, Bituminous Concrete Skim Coat, Bituminous Concrete Trench Repair, and Bituminous Concrete Base.
- B. The Connecticut Department of Transportation (CTDOT) will post on its website, the average per ton selling price (asphalt price) of the performance-graded binder. The average is based on the high and low selling price as posted by CTDOT during the month in which the Permanent Pavement is installed and accepted. Should the data not be posted or available from CT DOT, the data published by the most recent available issues of the **Asphalt Weekly Monitor®** furnished by Poten & Partners, Inc. under the “East Coast Market – New England, New Haven, Connecticut area,” F.O.B. manufacturer’s terminal for PG 64-22 will be used.

C. The selling price furnished from the Asphalt Weekly Monitor ® is based on United States dollars per standard ton (US\$/ST).

**PART 3 – MEASUREMENT**

Formula: $HMA \times [PG\%/100] \times [(Period\ Price - Base\ Price)] = \$ \underline{\hspace{2cm}}$
---

Where:

- **HMA:**
  1. For HMA mixtures with pay units of tons: The quantity in tons of accepted HMA mixture measured and accepted for payment.
  2. For HMA mixtures with pay units of square yards: The quantity of HMA mixture delivered, placed, and accepted for payment, calculated in tons as documented according to the Material Documentation provision of the HMA Specification.
- **Asphalt Base Price:** The asphalt price for this project is set as **\$735.00/ST**.
- **Asphalt Period Price:** The average of the high and low asphalt price posted on the CTDOT website during the month the HMA or PMA mixture was placed and accepted.
- **PG%:** Performance-Graded Binder percentage
  1. For HMA mixes:
    - PG% = 4.5 for HMA S1
    - PG% = 5.0 for HMA S0.5
    - PG% = 6.0 for HMA S0.375, and HMA S0.25

The asphalt adjustment cost shall not be considered as a changed condition in the Contract as result of this provision since all bidders are notified before submission of bids.

**PART 4 – PAYMENT**

- 4.1 The "Asphalt Adjustment Cost" will be calculated using the formula indicated above. A payment will be made for an increase in costs. A deduction from monies due the Contractor will be made for a decrease in costs.
- 4.2 The sum of money shown on the Estimate and in the itemized proposal as "Allowance" for this item will be considered the bid price although the adjustment will be made as described above. The allowance cost figure is not to be altered in any manner by the bidder. If the bidder should alter the Allowance amount shown, the bid may be considered invalid.

Item Number	Pay Item	Pay Unit
1575	Asphalt Adjustment Cost	Allowance

## URI / NEW HAVEN - Approved Trees for Planting in the Public Right of Way

Ask URI (203-432-6189, uri@yale.edu) for current availability

### Small Size Trees - Suitable for planting under utility wires

Street Tree	Sun Requirements	Showy Fall Color (foliage)	Particularly Good for Native Birds & Insects	Showy Flowers	North America Native (*native to Northeast)	Notes
Amur maackia	Full sun	No	No	Yes	No	Very hardy. Good for dense, urban sites.
Cherry	Full sun	Varies	Yes	Yes	No	
Crabapple	Full sun	Varies	Yes	Yes	No	
Dogwood, Cornelian cherry	Full sun, Part shade	Yes (red)	No	Yes	No	
Dogwood, Eastern flowering	Part shade, Full shade	Yes (purple, red)	No	Yes	Yes*	
Dogwood, Kousa	Full sun, Part shade	Yes (purple, red)	No	Yes	No	
Hawthorn	Full sun	Yes (purple, red, orange, yellow)	Yes	Yes	Yes*	
Hornbeam, American	Full sun, Part shade, Full shade	Yes (red, orange, yellow)	No	No	Yes*	
Japanese tree lilac	Full sun, Part shade	Yes (yellow)	No	Yes	No	Very hardy. Good for dense, urban sites.
Maple, trident	Full sun, Part shade	Yes (red, orange, yellow)	No	No	No	
Parrotia, Persian	Full sun	Yes (red, orange, yellow)	No	No	NO	
Redbud, Eastern	Part shade, Full shade	Yes (yellow)	No	Yes	Yes*	
Serviceberry	Full sun, Part shade, Full shade	Yes (red, orange)	Yes	Yes	Yes*	



**Medium Size Trees - SOMETIMES suitable for planting under high utility wires (case-by-case basis)**

Street Tree	Sun Requirements	Showy Fall Color (foliage)	Particularly Good for Native Birds & Insects	Showy Flowers	North America Native (*native to Northeast)	Notes
Black gum	Full sun, Part shade	Yes (red, orange, yellow)	No	No	Yes*	
Elm, lacebark	Full sun, Part shade, Full shade	Yes (orange, yellow)	No	No	No	Very hardy. Good for dense, urban sites.
Goldenrain tree	Full sun	Yes (yellow)	No	Yes	No	
Hophornbeam	Full sun, Part shade, Full shade	Yes (yellow)	No	No	Yes*	
Maple, miyabei	Full sun, Part shade	Yes (yellow)	No	No	No	
Pagoda tree	Full sun	No	No	Yes	No	
Turkish filbert	Full sun	No	No	No	No	
Yellowwood	Full sun	Yes (orange, yellow)	No	Yes	Yes	Best for large curb strips, front yard offsets, and parks
Zelkova	Full sun	Yes (red, orange, yellow)	No	No	No	Very hardy. Good for dense, urban sites.

**Large Size Trees - NOT suitable for planting under utility wires**

Street Tree	Sun Requirements	Showy Fall Color (foliage)	Particularly Good for Native Birds & Insects	Showy Flowers	North America Native (*native to Northeast)	Notes
Baldcypress	Full sun	Yes (orange, brown)	No	No	Yes	Best for large curb strips, front yard offsets, and parks
Buckeye, yellow	Full sun, Part shade	Yes (orange, yellow)	Yes	Yes	Yes	
Elm, American	Full sun, Part shade	Yes (yellow)	Yes	No	Yes*	
Elm, Morton	Full sun, Part shade	Yes (yellow)	No	No	No	

Street Tree	Sun Requirements	Showy Fall Color (foliage)	Particularly Good for Native Birds & Insects	Showy Flowers	North America Native (*native to Northeast)	Notes
Ginkgo	Full sun	Yes (yellow)	No	No	No	
Hackberry	Full sun, Part shade	Yes (yellow)	Yes	No	Yes*	
Hardy rubber tree	Full sun	No	No	No	No	
Honeylocust	Full sun	Yes (yellow)	No	No	Yes	Very hardy. Good for dense, urban sites.
Horsechestnut	Full sun	Yes (yellow)	No	Yes	No	Best for large curb strips, front yard offsets, and parks
Katsura tree	Full sun, Part shade	Yes (orange, yellow)	No	No	No	
Kentucky coffee tree	Full sun	Yes (yellow)	No	No	Yes	Best for large curb strips, front yard offsets, and parks
Linden, American	Full sun, Part shade	Yes (yellow)	Yes	No	Yes*	
Linden, littleleaf	Full sun	Yes (yellow)	No	No	No	
Linden, silver	Full sun	Yes (yellow)	No	No	No	
Maple, red	Full sun, Part shade	Yes (red, orange, yellow)	Yes	Yes	Yes*	
Maple, sugar	Full sun, Part shade	Yes (red, orange, yellow)	Yes	No	Yes*	Best for large curb strips, front yard offsets, and parks
Oak, chestnut	Full sun	Yes (yellow, brown)	Yes	No	Yes*	
Oak, English	Full sun	Yes (brown)	Yes	No	Yes*	
Oak, pin	Full sun	Yes (brown)	Yes	No	Yes*	
Oak, red	Full sun	Yes (red, brown)	Yes	No	Yes*	
Oak, scarlet	Full sun	Yes (red, brown)	Yes	No	Yes*	
Oak, swamp white	Full sun	Yes (yellow, brown)	Yes	No	Yes*	
Oak, white	Full sun	Yes (red, brown)	Yes	No	Yes*	
Planetree, London	Full sun	No	No	No	No	

Street Tree	Sun Requirements	Showy Fall Color (foliage)	Particularly Good for Native Birds & Insects	Showy Flowers	North America Native (* native to Northeast)	Notes
Sweetgum	Full sun, Part shade	Yes (purple, red, orange)	No	No	Yes*	
Tuliptree	Full sun	Yes (yellow)	Yes	Yes	Yes*	Best for large curb strips, front yard offsets, and parks

CWF 2019-05 Orchard Street Area Sewer Separation  
Sanitary Sewer Pipe Information for Cured in Place Pipe Lining

Pipe Segment #	Upstream MH #	Downstream MH #	Pipe Size (inches)	Length (feet)	Pipe Material	Avg. Depth (feet)	Max. Flow (MGD)
<b><u>Rev. Dr. Martin Luther King Jr. Blvd. (North Frontage Road)</u></b>							
NBU13P1068	NBU13M1175	NBU13M1177	30	276	RCP	14	15
<b><u>Orchard Street</u></b>							
NBU13P1110	NBU13M1173	NBU13M1175	18	7	Tile/VCP	13	5
NBU13P1109	NBU13M1174	NBU13M1173	18	138	Tile/VCP	11	5
NBU13P1108	NBU13M1155	NBU13M1174	18	139	Tile/VCP	10	5
NBU13P1266	NBU13M1153	NBU13M1155	18	147	Tile/VCP	10	5
NBU13P1138	NBU13M1163	NBU13M1153	12	170	Tile/VCP	10	3
NBU13P1137	NBU13M1162	NBU13M1163	12	175	Tile/VCP	10	3
<b><u>George Street</u></b>							
NBU13P1167	NBU13M0753	NBU13M0754	15	140	Tile/VCP	12	4
NBU13P11168	NBU13M0754	NBU13M0755	15	144	Tile/VCP	12	4
NBU13P1269	NBU13M0755	NBU13M0744	18	170	Tile/VCP	12	5
NBU13P1100	NBU13M0744	NBU13M0743	18	176	Tile/VCP	13	5
NBU13P1101	NBU13M0743	NBU13M0745	20 X 30	175	Brick	13	7
NBU13P1102	NBU13M0745	NBU13M0746	20 X 30	183	Brick	14	7
NBU13P1103	NBU13M0746	NBU13M0747	20 X 30	181	Brick	15	7
NBU13P1104	NBU13M0747	NBU13M1065	20 X 30	180	Brick	15	7
NBU13P1243	NBU13M1065	NBU12M1066	20 X 30	181	Brick	16	7
<b><u>Gilbert Avenue</u></b>							
NBU13P1236	NBU13M1150	NBU13M1151	15	112	Tile/VCP	10	3
NBU13P1237	NBU13M1151	NBU13M1152	15	118	Tile/VCP	10	3
NBU13P1238	NBU13M1152	NBU13M1153	15	36	Tile/VCP	11	3
NBU13P1239	NBU13M1154	NBU13M1153	15	40	Tile/VCP	11	3
NBU13P1136	NBU13M1161	NBU13M1154	12	149	Tile/VCP	10	3
<b><u>Sherman Avenue</u></b>							
NBU12P1249	NBU12M1074	NBU12M1066	15	37	Tile/VCP	16	3
NBU12P1248	NBU12M1073	NBU12M1074	12	171	Tile/VCP	15	3
NBU12P1247	NBU12M1064	NBU12M1073	12	174	Tile/VCP	14	3
NBU12P1242	NBU12M1063	NBU12M1064	12	183	Tile/VCP	12	3