



**REGULAR MEETING OF THE**  
**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY**  
**BOARD OF DIRECTORS**  
**WEDNESDAY, APRIL 9, 2025 6:00 P.M.**  
**260 EAST STREET**  
**NEW HAVEN, CONNECTICUT**

**AGENDA**

1. Approval of minutes of March 12, 2025 – Regular Meeting.
2. Public participation relating to agenda items.
3. Submission of Authority's Cost of Service Study; Annual Budget consisting of next fiscal year's projected expenditures and recommended user rates and charges and a proposed Annual Capital Budget for the next fiscal year; an annual update to the Five-Year Capital Improvement Plan; and the impact of the Annual Budget on the next fiscal year's projected expenditures and revenues and user rates and charges.
4. Consideration and approval of a resolution scheduling a public hearing for Wednesday, May 14, 2025 at 5:45 p.m. at the Greater New Haven Water Pollution Control Authority, 260 East Street, New Haven, Connecticut regarding the Authority's Annual Budget and recommended user rates and charges.
5. Consideration and approval of a resolution authorizing the Executive Director, Sidney J. Holbrook, to negotiate, execute and deliver an agreement with Diversity Construction Group, LLC for construction services related to Project No. SSF 2018-04 GNHWPCA Laboratory Conversion, for an aggregate amount not to exceed \$1,163,800.
6. Consideration and approval of a resolution authorizing the Executive Director, Sidney J. Holbrook, to negotiate, execute and deliver an agreement with AECOM for construction management services related to Project No. SSF 2018-04 GNHWPCA Laboratory Conversion, for an aggregate amount not to exceed \$126,500.

7. Consideration and approval of a resolution authorizing the Executive Director, Sidney J. Holbrook, to negotiate, execute and deliver a task order with H.W. Lochner, Inc. for utility bridge repair and rehabilitation and forcemain replacement over the Metro North Railroad for the Authority's Union Street pump station located in New Haven, Connecticut, for an aggregate amount not to exceed \$382,505.
8. Consideration and approval of a resolution authorizing the Executive Director, Sidney J. Holbrook, to negotiate and execute a change order to the agreement with Cerilli Construction LLC for the sanitary sewer manhole cover raising, extending the term of such agreement to June 30, 2027 and increasing the costs payable under such agreement by 5%.
9. Consideration and approval of certain Departmental Budget Transfer Requests.
10. Executive Summary and department updates and presentations.
11. Consideration and approval, as necessary, of any other new business of the Authority.
12. Call to the public.
13. Adjournment.



Greater New Haven Water Pollution Control Authority

260 East Street New Haven, CT 06511  
203.466.5280 p 203 772.1564 f www.gnhwpca.com

DATE: March 28, 2025  
TO: Sidney J. Holbrook, Executive Director  
FROM: Gary Zrelak, Director of Operations  
RE: Contract Award Recommendation  
**Project No. SSF 2018-04**  
**GNHWPCA Laboratory Conversion**

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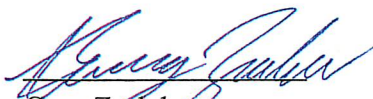
Sid:

I request that the above-mentioned recommendation be added to the April 9, 2025, Board Meeting Agenda for resolution.

The laboratory at the East Shore Water Pollution Abatement Facility has been identified as needing improvements as the laboratory is the original facility from the 1970's. The project will include relocating the laboratory downstairs, adding a sample collection area, new HVAC, electrical work and new benches and cabinets for the redesigned workstations.

Bids were received for the above referenced project on Wednesday, March 19, 2025. I recommend approval to the low bidder, Diversity Construction, in the amount shown on the attached bid list summary \$ 1,058,000.00 plus a 10% contingency (\$ 105,800) for a for a total amount not to exceed **\$ 1,163,800.00**.

This project is budgeted 100% from the Authority's Approved Capital Funds.

  
Gary Zrelak  
Director of Operations

e-copy: Gabe Varca, Director of Finance & Administration  
Lou Criscuolo, Deputy Director of Finance and Administration  
Tom Sgroi, Director of Engineering  
Joseph Megale, Deputy Director of Operations



March 28, 2025

**Our Reference**  
60729146

Mr. Joseph Megale  
Deputy Director of Operations  
Greater New Haven WPCA  
260 East Street  
New Haven, CT 06511

**GNHWPCA SSF 2018-04 Wastewater Laboratory Conversion**

Dear Mr. Megale,

We have reviewed the bids submitted for the Wastewater Laboratory Conversion Project and have included a tabulation of the bids (copy attached). We have also reviewed the bid in the amount of \$1,058,000 and the Qualifications Statement submitted by Diversity Construction Group, LLC on March 19<sup>th</sup> and have contacted the references provided with the bid. The references have indicated that Diversity Construction Group, LLC:

- Projects were completed in a timely fashion meeting schedule
- Financial and billing procedures were accurate and timely
- Personnel were cooperative and responsive with the same personnel involved for the entire project duration
- Change orders, when necessary, were fair
- Diversity utilizes ProCore construction management software in executing their projects
- Diversity does issue a significant number of Requests for Information (RFI) in performing their work
- Diversity does not self-perform significant portions of the work but does a good job of managing their subcontractors

We recommend that the wastewater laboratory conversion project be awarded to Diversity Construction Group, LLC. If you have any questions, please let us know.

Best Regards,



Thomas A. Loto PE, BCEE  
Associate Vice President  
AECOM  
T: 860 263-5862  
M: 860 8301418  
E: tom.loto@aecom.com



DATE: March 31, 2025  
TO: Sidney J. Holbrook, Executive Director  
FROM: Gary Zrelak, Director of Operations  
RE: Construction Services Recommendation  
**Project No. SSF 2018-04**  
**GNHWPCA Laboratory Conversion**

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Sid:

I request that the above-mentioned recommendation be added to the April 9, 2025, Board Meeting Agenda for resolution.

The Laboratory Conversion Project which has been bid and will be awarded needs construction management services during the project construction. AECOM, the design engineer, has submitted a proposal for construction services. I recommend approval of the AECOM proposal for construction services in the amount shown on the proposal for **\$115,000.00** plus a 10% contingency (**\$11,500**) for a total amount not to exceed **\$ 126,500.00**.

This project is budgeted 100% from the Authority's Approved Capital Funds.

A handwritten signature in blue ink, appearing to read "Gary Zrelak", is written over a horizontal line.

Gary Zrelak  
Director of Operations

e-copy: Gabe Varca, Director of Finance & Administration  
Lou Criscuolo, Deputy Director of Finance and Administration  
Tom Sgroi, Director of Engineering  
Joseph Megale, Deputy Director of Operations



March 28, 2025

Mr. Joseph Megale  
Deputy Director of Operations  
Greater New Haven Water Pollution Control Authority  
260 East Street  
New Haven, CT 06511

Subject: **On-Call Engineering Services  
Wastewater Laboratory Construction Services  
East Shore Wastewater Treatment  
New Haven, CT**

Dear Mr. Megale:

As part of your continuing capital improvement project, AECOM is pleased to provide this proposal to assist the Greater New Haven Water Pollution Control Authority (GNHWPCA) with the construction services for the upgrade to the wastewater laboratory at the East Shore Wastewater Treatment Plant. We have revised our proposal originally submitted on March 13, 2025. We are resubmitting this updated proposal, which was revised based on our telecon earlier today where we agreed to reduce the assumed level of effort and associated fee. The construction services will include architectural and engineering services to relocate the existing wastewater laboratory to the first floor as shown in Final Contract Documents submitted to GNHWPCA on February 6, 2025. Services will be provided in accordance with the terms of our On-Call Agreement, dated December 10, 2020, and subsequent Amendments.

### **Project Understanding**

GNHWPCA was formed as a regional sewer authority in 2005. GNHWPCA provides wastewater collection and treatment services to 210,000 customers in the City of New Haven and the Towns of Hamden, East Haven and Woodbridge. GNHWPCA owns, operates, and maintains a wastewater treatment plant and an extensive sewer system that includes 555 miles of sanitary, separated and combined sewers, 30 pump stations, and a 5-million-gallon combined sewer overflow (CSO) storage tank. GNHWPCA has 17 active CSO Regulators and 13 active CSO outfalls throughout its' combined sewer system in New Haven.

The project is to renovate the existing conference room and file storage area on the first floor to a new wastewater laboratory of approximately 695 SF along with three office spaces with a combined 347 SF for a total of 1,042 SF of renovation.

## **Project Team**

- Thomas Loto, PE, BCEE - Project Manager
- Richard Berlandy – Project Engineer
- Kevin Triplett, AIA, NCARB, LEED AP BD+C – Architectural
- Leslie Sims, AIA, NCARB, LEED AP BD+C L- Quality Assurance/ Quality Control
- Johnny Tran, Designer
- Susannah Apostolopoulos, – Electrical
- Oktay Darian – Mechanical, HVAC
- John Gruen – Plumbing

## **Scope of Services**

### **Engineering Services during Construction**

AECOM proposes to provide engineering services during construction with twelve (12) site visits and engineering office support for shop drawing and submittal review, office consultation, meeting attendance, and contract close-out services. Our scope of services is based upon providing engineering services during construction for a 11-month overall construction contract period with 6-months of active construction. During such period, it is assumed that an initial three-month period will be for submittal of shops drawings and initial contractor preparation. Twelve (12) site visits will be provided during the assumed 6-months of active construction within the assumptions presented below along with closeout services at the end of the construction term that will be utilized for addressing punch list items.

AECOM will provide consultation and advice on construction matters including periodic visits to the site to observe the methods, means, techniques, sequences or procedures selected by the contractor. Such visits will evaluate if the work is proceeding in general accordance with the Contract Documents, but the Engineer will not be responsible for general progress and/or quality of the executed work. The Engineer will not be responsible for the Contractor's failure to perform the work in accordance with the construction contract documents and will not have control or charge of the construction.

Engineering Services during Construction will consist of the following tasks:

### **Task 1 — Project Management**

AECOM will conduct project management activities required to manage technical, financial, and schedule aspects of this task order necessary to complete the work. Activities include coordinating and facilitating team and client meetings, coordinating quality assurance, monitoring the progress of the work, and construction administration. A total of **54** hours have been allocated to this Task.

**Task 2 — Shop Drawings**

1. AECOM will review shop drawings, illustrations, samples and schedules, the results of tests and inspections, and other data which the Contractor is required to submit to demonstrate conformance with the contract documents. It is assumed that submittals will be provided for review electronically and will be returned electronically. The following table provides the quantity of shop drawings and shop drawing resubmittals anticipated for the project by specification section:

Division		Anticipated Number of Shop Drawings
01 00 00	General Requirements	5
04 00 00	Masonry	2
07 00 00	Thermal and Moisture Protection	2
08 00 00	Openings	2
09 00 00	Finishes	5
11 00 00	Equipment	10
12 00 00	Furnishings	2
22 00 00	Plumbing	10
23 00 00	Heating, Ventilating and Air Conditioning	10
26 00 00	Electrical	10
28 00 00	Electronic Safety and Security	2
	<b>Total</b>	<b>60</b>

2. The anticipated level of effort for shop drawing review consists of approximately 4 hours per shop drawing which includes up to one resubmittal for a total of **240** hours have been allocated to this Task.

**Task 3 – Construction Administration**

1. Conferences: Attend preconstruction conference. Develop agenda, attend meeting and distribute copies of minutes.
2. Attend monthly construction progress meetings during active construction period. Assumed that attendance at up to six (6) meetings will be required.
3. Payment Requisitions: Review Applications for Payment with Contractor for compliance with the established procedure for their submission and forward them with recommendations to Engineer, noting particularly their relation to the schedule of values, work completed, and materials and equipment delivered at the site, but not incorporated in the work. A total of up to nine (9) payment requisitions will be reviewed.
4. Schedules: Review the progress schedule, schedule of Shop Drawing submissions and schedule of values prepared by Contractor and consultant with Engineer concerning their acceptability. A total of up to nine (9) schedules will be reviewed.

5. Interpretation of Contract Documents: Transmit to Contractor clarification and interpretation of the Contract Documents. Up to twenty (20) RFIs will be reviewed, and a response will be developed for each one. In addition, documentation for any required Field Changes will be developed and submitted to the Contractor
6. Prepare and recommend up to three (3) Change Orders obtaining all backup material.
7. Certificates, Operation and Maintenance Manuals: During the course of the work verify that certificates, maintenance and operation manuals and other data required to be assembled and furnished by Contractor are applicable to the items actually installed and deliver this material to GNHWPCA prior to final acceptance of the work.
8. The anticipated level of effort for Construction Administration is up to **232** hours allocated for this Task.

#### **Task 4 – Site Visits**

1. Conduct twelve (12) periodic on-site inspections during the 6-month active construction of the work in progress, or as otherwise necessary, to determine (1) if the work is proceeding in general accordance with the Contract Documents and (2) that completed work is in apparent conformity with the Contract Documents.
2. AECOM will notify GNHWPCA thereafter whenever work is observed to be unsatisfactory, faulty, or defective, or does not meet the requirements of any inspections, tests, or approvals required to be made; and advise when work should be corrected or rejected or should be uncovered for observation or requires special testing or inspection or approval.
3. Performance of the services outlined herein endeavors to protect GNHWPCA against defects and deficiencies in the work and to verify compliance with the Contract Documents. Nothing is stated herein relieves Contractor of its independent obligations under its contract with GNHWPCA in performing his services. The Engineer shall not be responsible for the Contractor's failure to perform the construction work in accordance with the Contract Documents nor for the Contractor's construction methods or procedures, or the safety precautions or programs incident therein.
4. Twelve (12) site visits have been included in the scope. Review of Work, Rejection of Defective Work, Inspection and Tests with a total of **78** hours allocated for this Task.

#### **Fee**

AECOM proposes to complete the services described in Tasks 1 through 4 on a Time and Materials using fully burdened rates in accordance with On-Call Engineering Services RFQ 2020-01 Proposal and subsequent Amendments up to \$115,000. AECOM will not perform any additional work above the not to exceed amount of \$115,000 without prior authorization.

#### **Schedule**

AECOM will perform the above Tasks in accordance with the anticipated overall construction contract period of 11 months.

AECOM On-Call Agreement - Greater New Haven Water Pollution Control Authority RFQ 2020-01  
 AECOM Labor Effort for On-Call Engineering Services Wastewater Laboratory Construction Services

Task	Project Manager (Tom)	Officer (Principal in Charge) (Leslie)	Senior Technical Specialist (Kevin Lou)	Senior Project Engineer (Rich and Technical Staff)	Staff Engineer (Johnny)	Senior Administrative Assistant (Stacy)	Total Hrs	Labor Cost	Expenses	Subconsultants	Sum by Task Hours Estimated	Sum by Task Labor Cost	Summary by Task Expenses	Subcontracts by Task	Total Cost
<b>Task 1 - Project Management</b>	40	6					54	\$11,860	\$720		54	\$11,860	\$720	\$0	\$12,580.00
Project Management															
<b>Task 2 - Shop Drawings</b>											240	\$38,400	\$0	\$0	\$38,400.00
01 00 00 General Requirements				10	10		20	\$3,200							
04 00 00 Masonry				4	4		8	\$1,280							
07 00 00 Thermal and Moisture Protection				4	4		8	\$1,280							
08 00 00 Openings				4	4		8	\$1,280							
09 00 00 Finishes				10	10		20	\$3,200							
11 00 00 Equipment				20	20		40	\$6,400							
12 00 00 Furnishings				4	4		8	\$1,280							
22 00 00 Plumbing				20	20		40	\$6,400							
23 00 00 Heating Ventilating and Air Conditioning				20	20		40	\$6,400							
26 00 00 Electrical				20	20		40	\$6,400							
28 00 00 Electronic Safety and Security				4	4		8	\$1,280							
<b>Task 3 - Construction Administration</b>							232	\$43,240	\$0		232	\$43,240	\$0	\$0	\$43,240.00
Preconstruction Conference	2		2		4		8	\$1,520							
Monthly Construction Meetings (6)	18		12		18		48	\$9,750							
Payment Requests (9)	3				9		12	\$1,875							
Schedules (9)	3				9		12	\$1,875							
Interpretation of Contract Documents (20)	20		20		40		100	\$19,000							
Change Orders (3)	6		12		24		42	\$7,710							
Operation and Maintenance Manuals	2				8		10	\$1,510							
<b>Task 4 - Site Visits</b>							78	\$19,590	\$1,190		78	\$19,590	\$1,190	\$0	\$20,780.00
Periodic On-Site Inspections (12)	4		48		12		64	\$15,940	\$1,190						
Construction Inspection Reports (12)	2		12		6		14	\$3,650							
<b>Total</b>	<b>100</b>	<b>6</b>	<b>106</b>	<b>152</b>	<b>232</b>	<b>8</b>	<b>604</b>		<b>\$1,910</b>	<b>\$0</b>	<b>604</b>	<b>\$113,090</b>	<b>\$1,910</b>	<b>\$0</b>	
Hourly Billing Rate	\$235.00	\$270.00	\$265.00	\$190.00	\$130.00	\$105.00									
<b>Total Cost</b>	<b>\$23,500</b>	<b>\$1,620</b>	<b>\$28,090</b>	<b>\$28,880</b>	<b>\$30,160</b>	<b>\$840</b>		<b>\$113,090</b>							<b>\$115,000</b>

Hourly Burdened Rates in accordance with On-Call Engineering Services RFQ 2020-01 Proposal

TOTAL COST SUMMARY



## MEMORANDUM

DATE: March 28, 2025

TO: Sidney J. Holbrook

FROM: Thomas Sgroi, PE  
Director of Engineering

RE: Task Order Recommendation  
H.W. Lochner, Inc. (Lochner)  
Utility Bridge Repair and Forcemain Replacement over Metro North Railroad for Union Street Pump Station

Sid:

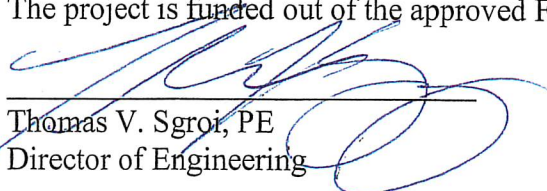
I request that the above-mentioned recommendation be added to the April 9, 2025 Board Agenda for resolution.

This project involves the repair and rehabilitation of the utility bridge and forcemain replacement over the Metro North Railroad for the Union Street Pump Station. Lochner will provide bridge repair plans to extend the functional service life of the structure by 20-25 years and will address deficiencies identified in the 2023 inspection report previously provided by Lochner.

The plans will also include detailed drawings for the forcemain replacement on the utility bridge, along with the replacement of the pipe from the bridge into the headers of the pumps in the dry pit of the station. Work will involve a new layout and maintenance platforms within the station. Additionally, the scope includes all Metro North Railroad permitting and coordination, along with temporary sewer bypass plans to accommodate the rehabilitation of the bridge and replacement of the forcemain. Lochner will complete this work in accordance with their proposal and estimated fee schedule dated March 6, 2025.

I recommend approval of a Lochner Task Order in the amount not to exceed \$347,732 plus a 10% contingency of \$34,773, for a total amount not to exceed \$382,505.

The project is funded out of the approved FY25 Capital Program.

  
\_\_\_\_\_  
Thomas V. Sgroi, PE  
Director of Engineering

ecopy: Gabe Varca, Lou Criscuolo  
Gary Zrelak, Joe Megale  
Nick Stevens

March 6, 2025

Mr. Thomas V. Sgroi, P.E.  
Director of Engineering  
Greater New Haven Water Pollution Control Authority  
260 East Street  
New Haven, CT 06511

Subject: Task Order No. HWL14  
Scope and Fee Proposal – Utility Bridge Repair and Sewer Replacement

Dear Mr. Sgroi:

As directed and in accordance with the On-Call Engineering Services contract dated October 15, 2020 and Amendment #1 dated October 5, 2023, enclosed please find a complete cost proposal for the work associated with the repair of the utility bridge and associated sewer replacement in New Haven. The following is enclosed for your review and use.

- Complete cost proposal including direct costs
- Allowable Classification Escalation
- Scope of Services

If you have any questions or require additional information, please contact the undersigned.

Sincerely,



Harry F. Martindale, P.E.  
Associate Vice President  
enclosures

# **GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY**

**TASK ORDER NO. HWL14**

## **LOCHNER SCOPE OF WORK**

### **DESIGN OF UNION PUMP STATION MODIFICATIONS, REPAIRS AND FORCE MAIN REPLACEMENT FOR UTILITY BRIDGE OVER METRO- NORTH RAILROAD**

**NEW HAVEN MAINLINE M.P. 72.50**

**NEW HAVEN, CT**

**(March 5, 2025)**

#### **Assignment Background**

GNHWPCA is the owner of a utility bridge that carries both a sewer and gas line over Metro-North Railroad's (MNR) New Haven Line in the city of New Haven. The structure is located immediately north of the Water Street Bridge and the New Haven Rail Yard. Lochner performed a condition inspection and load rating for this structure in 2023 and recommended repair and maintenance items to improve the function of the bridge and to extend its service life.

GNHWPCA recognizes the importance of maintaining this structure and has initiated this task order for Lochner to design bridge repair plans including the replacement of the sewer force main carried on the structure. The goal of the improvements is to improve the function of the structure and provide a service life of 20-25 years without the need for additional capital investments for this structure. The improvements are not intended to increase the load capacity of the structure. The repairs and replacement of the force main will maintain the existing load rating for the structure which was last updated in 2023 and concluding that the structural capacity exceeded the demand for the existing conditions.

The bridge improvements and sewer replacement will require a temporary bypass to be in place during the construction phase with the bypass expected to be routed along the north sidewalk of the adjacent highway bridge. A temporary bypass, shutdown or permanent relocation of the gas main is also anticipated with the details of any temporary and permanent work on the gas main to be designed and constructed by Southern Connecticut Gas (SCG) or their representative.

GNHWPCA has a combined sewer pump station (Union Pump Station) at this same location that is experiencing challenges with clogging. Due to the current piping configuration, solids build up in the vertical leg of single pump discharge lines when a pump goes offline. GNHWPCA has evaluated multiple operational modifications and determined that piping modifications are required to resolve issues with solids deposition in the individual pump discharge lines. GNHWPCA has developed a design concept to combine the piping into a single vertical riser to resolve the issue. The proposed improvements do not include any capacity increases or electrical improvements and the existing pumps will be reused.

To meet the goals set by GNHWPCA, the following tasks are required.

### **Task Summary**

Task 1: Railroad Coordination/Entry Permit

Task 2: Utility Bridge Verification Inspection

Task 3: Bridge Repair Plans, Specifications and Estimate

Task 4: Sewer Replacement Plans, Specifications and Estimate

Task 5: Access and Support Modification

Task 6: Update Load Rating

Task 7: Union Pump Station Modifications

Task 8: Project Coordination and Meetings

### **Detailed Description of Work**

#### **Task 1 – Railroad Coordination/Entry Permit**

Lochner will coordinate with MNR as required to access the bridge site for the verification inspection. This coordination will include obtaining an Entry Permit from MNR, obtaining the railroad protective liability insurance required to enter the railroad right-of-way, completing required MNR safety training for field staff and arranging the MNR railroad protective services to support the inspection. Railroad protective services are expected to include both flagmen and groundmen to de-energize the catenary below the utility bridge.

Lochner will also coordinate with MNR to determine the construction phase requirements that the bridge repair contractor will be required to comply with for both the safety of the railroad and to minimize operational impacts to rail service at the project site.

#### **Task 2 – Utility Bridge Verification Inspection**

Lochner will perform a verification inspection of the bridge and the sewer force main with the primary focus on documenting the condition and making detailed measurements of existing structural elements to be repaired, replaced or modified as part of the bridge improvements including the replacement of the sewer main. It is not the intent of this inspection to serve as a complete condition inspection for the bridge, and a formal inspection report will not be prepared. The inspection will include the preparation of sketches, photographs and descriptions that will be sufficient in detail and scope to allow for the development of repair plans and sewer main replacement plans to be prepared in Task Nos. 3 and 4.

This bridge inspection is not intended to serve as an inspection of the gas main supported on the bridge which is addressed by others.

It is expected that the inspection will be performed at off-peak times for the railroad that will be at night or on a weekend. For purposes of establishing a force account budget, it is expected that two shifts will be required for the field work given the need for staged de-energizing of the catenary for access to the entire bridge.

### **Task 3 – Bridge Repair Plans, Specifications and Estimate**

Lochner will prepare plans, specifications and an estimate for structural repairs of the utility bridge that will improve the function of the bridge and provide a service life of 20-25 years without the need for additional capital improvements. The repairs will address deficiencies identified in the 2023 inspection report and will include: replacement of the west abutment bearings; removal of pack rust at select truss connections; removal of pack rust at select bottom chord bracing connections or replacement of the bracing members; removal of pack rust in the bottom lateral strut at the east abutment; removal of debris and vegetation; repointing of stone masonry at the east abutment; and spot painting of the repaired areas of structural steel.

The bridge repair details will be developed assuming the sewer bypass will be in place during the bridge improvements. In addition, it is expected that the gas main on the bridge will be taken out of service during the bridge improvements with details of the shutdown, bypass or relocation to be addressed by the SCG.

The plans, specifications and estimate will be in a format suitable for the GNHWPCA's procurement using their on-call contractors regularly engaged in the performance of construction on GNHWPCA projects of similar scope and magnitude. The exact format of the deliverables will be established jointly by the GNHWPCA and Lochner prior to the development of the semi-final design submission. Submissions will be made at the conceptual design level; semi-final design; and final design with formal review, comments and resolution of comments addressed at each submission.

### **Task 4 - Sewer Replacement Plans, Specifications and Estimate**

Lochner will prepare plans, specifications and an estimate for the in-kind replacement of the sewer force main and flow meter on the utility bridge with the exact limits of replacement to be determined after the field verification performed under Task No. 2. The limits of the force main replacement are understood to be approximately 250 feet in length from the exterior of the pump station building to the exterior of the submergence chamber at the termination of the force main at Union Street. The replacement will include the preparation of plans and specifications for a temporary bypass that will be supported on a portion of the north sidewalk on the adjacent highway bridge. The bypass is expected to generally follow the path and details used in a previous bypass at this location circa 2005. GNHWPCA will provide details on standard practice for bypassing including the required flow to be accommodated. Lochner will develop maintenance and protection of traffic plans that address the detour of pedestrians from the north sidewalk of the bridge and local traffic detour or shifts at the bridge required for the installation, operation and removal of the bypass. Temporary traffic design shall be in accordance with City

and State standards as applicable.

The plans, specifications and estimate will be packaged with the bridge improvement documents developed under Task No. 3 in a similar format and with the same progress submissions.

#### **Task 5 – Access and Support Modification**

Lochner will prepare plans, specifications and an estimate for the modification of the stairway system and pipe support system. It is anticipated that the pipe modifications will also require modifications to the existing stairway system. It is anticipated that a partial removal of the stair system along with the addition of a new or modified landing with a 90 degree stairway run will be necessary. Details will be developed as the design and pipe modification progress. Details will be provided for the removal limits of the existing and for the proposed modifications. In reconfiguring the pipe the necessary support brackets and reaction blocks will be designed and detailed.

The plans, specifications and estimate will be packaged with the bridge improvement documents developed under Task No. 3 in a similar format and with the same progress submissions.

#### **Task 6 – Update Bridge Load Rating**

Lochner will update the Bridge Load Rating prepared in 2023 to account for the improvements including any changes in load resulting from the replacement of the sewer force main. The intent is to replace the sewer main with a similarly sized pipe that is supported in a similar manner as the existing line. It is also expected that the gas company will not increase the size or weight of their facilities as part of any temporary relocation and restoration of service.

An updated Load Rating Report including calculations will be prepared for the proposed improvements.

#### **Task 7 – Union Pump Station Modifications**

Lochner will prepare plans, specifications, and an estimate for the piping modifications requested by GNHWPCA. The proposed modifications are intended to fit within the existing building footprint – no building expansions are proposed as part of this scope. The intent of this modification is to reuse the existing pumps and motors in their current locations by turning the pumps on their bases. New piping and valving are anticipated.

Lochner understands the Union Pump Station currently has two 12 MGD (million gallons per day) pumps, one seven (7) MGD pump, and one four (4) MGD pump, for a total of four (4) pumps. GNHWPCA desires a capacity of 30 MGD in the replacement header. The pumps have variable frequency drives (VFDs). GNHWPCA indicates the VFDs must be operated at full speed to provide sufficient impeller speed to avoid clogging with rags.

Lochner will hire a subconsultant to perform terrestrial scanning of the inside of the pump room and the southeast exterior corner of the pump station (in the area of the existing flow meter and

transition from grade to the utility bridge). The subconsultant will provide CAD files documenting existing piping and equipment locations for use by Lochner in developing plans for the proposed modifications. After completion of the laser scanning efforts, Lochner will perform a site visit to validate the completed survey and evaluate construction access and constraints.

Lochner will develop a system head curve and confirm that the proposed force main and piping modifications in the pump station will not require any modifications to the pump motors or electrical service. Any pump or motor modifications (if required) are not included in this scope and can be included as a supplemental service.

The plans, specifications and estimate will be packaged with the bridge improvement documents developed under Task No. 3 in a similar format and with the same progress submissions.

### **Task 8 – Project Coordination and Meetings**

Lochner will coordinate with the GNHWPCA, the City of New Haven, MNR and SCG as required during the development of the plans and specifications for the bridge improvements and sewer main replacement. It is anticipated that the GNHWPCA will facilitate discussions and be the primary contact for all project coordination with the city and SCG.

Lochner will prepare agendas and reports of meetings for all formal meetings required during the design phase of this assignment. Meetings are anticipated for the following project milestones: project initiation; conceptual level plan review; semi-final design submission review; and final design submission review. One additional coordination meeting with SCG; and one additional meeting with the city for the maintenance and protection of traffic are also anticipated.

Construction phase support services are not included as part of this scope of services and will be addressed under a separate scope of services if required.

### **Assumptions**

The following items are excluded from the scope of services to be performed by Lochner.

- a. Electrical or controls engineering
- b. Architectural design or life safety/code evaluations
- c. Environmental or archeological investigations
- d. Construction phase services
- e. Subsurface utility engineering
- f. Flow analysis of incoming effluent

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
 DESIGN OF UNION PUMP STATION MODIFICATIONS, REPAIRS & FORCE MAIN REPLACEMENT FOR UTILITY BRIDGE OVER METRO-NORTH RAILROAD  
 Task Order No. HWL14

**ESTIMATED HOURS/COST TO PERFORM WORK**

3/6/2025

	H. W. LOCHNER INC.					SUBTASK TOTAL
	Sr. PROJECT MANAGER	PROJECT MANAGER	SENIOR ENGINEER	ENGINEER	JNR. ENGR./ TECHNICIAN	
<b>TASK 1 - RAILROAD COORDINATION/ENTRY PERMIT</b>						
1. Coordinate access for design phase Inc. entry permit and RPL Insurance	16		12		4	32
2. Coordinate construction phase requirements for contractor	4		12			16
<b>SUBTOTAL TASK 1</b>	<b>20</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>4</b>	<b>48</b>
<b>TASK 2 - UTILITY BRIDGE VERIFICATION INSPECTION</b>						
1. Perform Bridge Site Inspection (3 people)			20		20	40
2. Office compilation of field notes, sketches			8			8
<b>SUBTOTAL TASK 2</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>0</b>	<b>20</b>	<b>48</b>
<b>Task 3 - BRIDGE REPAIR PLANS, SPECIFICATIONS AND ESTIMATE</b>						
1. Design bridge Improvements and develop P.S & E	38		114	114	114	380
<b>SUBTOTAL TASK 3</b>	<b>38</b>	<b>0</b>	<b>114</b>	<b>114</b>	<b>114</b>	<b>380</b>
<b>Task 4 - SEWER REPLACEMENT PLANS, SPECIFICATIONS AND ESTIMATE</b>						
1. Design sewer replacement and bypass Inc MPT and develop P.S & E	8	10	18	48	100	182
<b>SUBTOTAL TASK 4</b>	<b>8</b>	<b>10</b>	<b>18</b>	<b>48</b>	<b>100</b>	<b>182</b>
<b>Task 5 - Access and Support Modification</b>						
1. Stairway Access Modification	8		24	30	38	100
2. Pipe Support and Reaction Blocks	8		24	30	38	100
<b>SUBTOTAL TASK 5</b>	<b>16</b>	<b>0</b>	<b>48</b>	<b>60</b>	<b>76</b>	<b>200</b>
<b>Task 6 - UPDATE LOAD RATING</b>						
1. Update 2023 load rating to reflect Improvements			4	8		12
<b>SUBTOTAL TASK 6</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>0</b>	<b>12</b>
<b>Task 7 -Union Pump Station Modifications</b>						
1. Design pump station modifications and develop P.S & E	86	44	30	108	388	656
<b>SUBTOTAL TASK 7</b>	<b>86</b>	<b>44</b>	<b>30</b>	<b>108</b>	<b>388</b>	<b>656</b>
<b>Task 8 -PROJECT COORDINATION AND MEETINGS</b>						
1. Coordinate design with GNHWPCA, City, SCG and MNR including meetings	16		16	20		52
2. Water Team Coordination	42	32	2	38	24	138
<b>SUBTOTAL TASK 8</b>	<b>58</b>	<b>32</b>	<b>18</b>	<b>58</b>	<b>24</b>	<b>190</b>
<b>TOTAL HOURS (TASKS 1 THROUGH 8)</b>						
	226	86	282	398	726	1716
Hourly Rate (per Amendment No. 1 Exhibit A)	\$123.01	\$84.47	\$88.73	\$59.79	\$39.34	N/A
Exhibit A Hourly Classification Rate Adjustment	0.24%	0.24%	0.24%	0.24%	0.24%	
Total Direct Salary	\$27,868.98	\$7,281.85	\$25,081.91	\$23,733.66	\$28,629.39	\$112,593.80
B.F.O & Profit Multiplier	2.90	2.90	2.90	2.90	2.90	N/A
<b>TOTAL COST</b>	<b>\$80,833.42</b>	<b>\$21,122.39</b>	<b>\$72,754.80</b>	<b>\$69,843.98</b>	<b>\$83,044.92</b>	<b>\$326,599.48</b>
LOCHNER DIRECT LABOR: \$112,593.80 BF&O @ 166.99%: \$179,012.88 TOTAL LABOR: \$291,606.68 PROFIT @ 12%: \$34,992.80 DIRECT COSTS: \$21,133.00 TOTAL = \$347,732.48						\$291,606.68 \$34,992.80 \$21,133.00 \$347,732.48

**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY  
ATION MODIFICATIONS, REPAIRS & FORCE MAIN REPLACEMENT FOR UTILITY BRIDGE OVER  
Task Order No. HWL14**

3/5/2025

**SUMMARY OF EXPECTED REIMBURSABLE DIRECT COSTS**

<b>H. W. LOCHNER EXPENSE</b>	<b>ESTIMATED COST</b>
1. Mileage (field work, meetings) 200 MILES @ \$0.625	\$125.00
2. Railroad Protective Liability Insurance	\$3,000.00
3. MNR Safety Training	\$100.00
4. MNR Flagman & Groundman Support Services - 2 shifts @ \$3000	\$6,000.00
5. Generator/light plant rental for night inspection - 2 shifts @ \$200	\$400.00
6. Terrestrial Laser Scanning	\$6,510.00
7. Water Team Travel (Conceptual Level Plan Review/Site visit) 3 staff @ \$833/day	\$4,998.00
	<hr/> \$21,133.00

**Total = \$21,133.00**

H.W. Lochner , Inc.  
55 Hartland Street  
Suite 401



**Greater New Haven Water Pollution Control Authority**

260 East Street New Haven, CT 06511  
203.466.5280 p 203 772.1564 f www.gnhwpca.com

DATE: April 1, 2025  
TO: Sidney J. Holbrook, Executive Director  
FROM: Gary Zrelak, Director of Operations  
RE: Agreement Extension Recommendation  
**Project No. SSR 2017-08**  
**Sanitary Sewer Manhole Raising**

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Sid:

I request that the above-mentioned recommendation be added to the April 9, 2025, Board Meeting Agenda for Resolution.

Cerilli Construction has provided manhole raising services to the Authority for the past seven (7) years without a price increase. Cerilli has provided excellent service throughout this time period. Cerilli would be agreeable to an extension with a 5 percent increase. I recommend approval of the extension of their contract for two years with a one-time price increase of 5%. The cost of replacing a damaged frame and cover would increase from \$900 to \$945 and the cost for raising a manhole paved over (0 to 4") would increase from \$1100 to \$1155.

Gary Zrelak  
Director of Operations

e-copy: Gabe Varca, Director of Finance & Administration  
Lou Criscuolo, Deputy Director of Finance and Administration  
Tom Sgroi, Director of Engineering  
Joseph Megale, Deputy Director of Operations



## Contract Agreement

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Greater New Haven  
Water Pollution Control Authority  
260 East Street  
New Haven, CT 06511

Project: Sanitary Sewer Manhole Cover Raising  
Project Number: SSR 2017-08  
Date: April 1, 2025

To Whom It May Concern,

Cerilli Construction is in agreement to extend our contract with GNHWPCA for two additional years with a price increase of five percent per line item until June 30, 2027. It has been a pleasure working with the staff and we look forward to continuing our business relationship.

If any additional information is needed, please let us know.

Robert Cerilli- Member

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Tel: 203.234.2275  
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