

**RESOLUTION APPROVING BUDGET MODIFICATION #02 TO MOTT MACDONALD
FOR THE MADISON STREET INFRASTRUCTURE IMPROVEMENTS PROJECT**

MOTIONED BY:

SECONDED BY:

WHEREAS, the North Hudson Sewerage Authority (hereinafter "Authority") is a public body, duly formed under the Sewerage Authorities law, constituting Chapter 138 of the Laws of New Jersey of 1946, as amended (Chapter 14A of Title 40 of the New Jersey Statutes Annotated) and possesses the powers set forth therein; and

WHEREAS, Mott MacDonald has been selected under resolution 17-081 to provide engineering services during construction for the Madison Street Infrastructure Improvements Project; and

WHEREAS, Mott Macdonald has submitted a request (Exhibit "A") for additional compensation in the amount of \$54,750.00 related to additional engineering services performed for items related to the Madison Street Infrastructure Improvements Project; and

WHEREAS, the Authority has determined to undertake, and hereby amend the scope of, the Madison Street Infrastructure Improvements Project as described in Appendix A hereto (the "Project") pursuant to Resolution No. 17-081 adopted on September 21, 2017; and

WHEREAS, the Authority has determined that the total estimated cost of the Project will be an amount not to exceed \$268,412; and

WHEREAS, the Chief Financial Officer has certified that funding is available through the Authority's Capital Improvement Program; and

WHEREAS, the capital budget of the Authority is hereby amended to conform with the provisions of this resolution to the extent of any inconsistency herewith; and

WHEREAS, the Facilities Review Board has reviewed the proposal and recommends the approval of the request.

NOW THEREFORE, BE IT RESOLVED that the Authority, as recommended by the Facilities Review Board, approves of Mott MacDonald provision of additional professional engineering and construction services as outlined in Exhibit "A" and shall be compensated in an amount not to exceed an additional \$54,750.00.

DATED: MARCH 16, 2023

RECORD OF COMMISSIONERS' VOTE
YES NO ABSTAIN

- Commissioner Kappock
- Commissioner Marotta
- Commissioner Gardiner
- Commissioner Friedrich
- Commissioner Guzman
- Commissioner Velazquez
- Commissioner Barrera
- Commissioner Zucconi
- Commissioner Assadourian

THIS IS TO CERTIFY THAT THIS RESOLUTION WAS DULY ADOPTED BY THE NORTH HUDSON BOARD OF COMMISSIONERS ON MARCH 16, 2023.

SECRETARY



Mr. Fredric J. Pocci, PE
Authority Engineer
North Hudson Sewerage Authority
1600 Adams Road
Hoboken, New Jersey 07040

Your Reference
Services Boulevard East
Combined Sewer
Improvements

Our Reference
507101715TO12

**North Hudson Sewerage Authority
Request for Contract Modification
Madison Street Infrastructure Improvements Project**

March 3, 2023

Dear Mr Pocci:

Mott MacDonald is pleased to submit this Request for a Contract Modification to our Professional Engineering Services Contract with the North Hudson Sewerage Authority (NHSA) for Madison Street Infrastructure Improvements Project.

We are requesting this modification as a result of additional work requested by the Authority beyond the original scope of the Contract. We have been able to complete much of the required work within the original Project Budget but need additional funds to complete the project. Specific items are detailed below.

PROJECT DESCRIPTION

Original Scope

As you are aware Mott MacDonald has been coordinating with the Authority and the City of the Hoboken to prepare final bid documents that included the combined sewer replacement, roadway reconstruction and as well as watermain installation within the project area through a shared services agreement. As the result of utilities conflicts created by Public Service Electric and Gas (PSE&G) and several requests by the City and the Authority, we performed additional work.

A description of this additional scope items is listed below:

1. Additional Surveying

Mott MacDonald performed additional topographic surveying work at the request of the City of Hoboken as approved by the Authority. These areas included 11th Street between Madison Street to Monroe Street and along 10th Street up to the intersection of Jefferson Street.



2. Coordination with the City of Hoboken

MacDonald conducted several meetings with the stake holders within the project area. The parties include 901 Madison Street, Shop Rite and Avalon Properties.

The results of these meeting resulted in revisions to plans, specifically the grading at the southwest corner of 9th and Madison Street. One benefit of these meetings was we determined that the proposed sidewalk sewer along the Shop Rite side of the project would no longer be required providing a savings to the Authority.

Hoboken also expanded the scope of the project by adding bump outs, extending the work up 10th Street toward Jefferson Street and along 11th Street between Madison to Monroe Street.

3. Madison Street Phase 1

As the design was finalized, a significant utility conflicts were identified, specifically PSEG installed their underground facilities on top of and in direct conflict with the Authority's existing assets in the intersection of 11th Street.

Mott MacDonald worked with PSE&G and to develop several design alternatives to relocate their duct bank, so the work can proceed. We also attended several meetings with the Authority and PSE&G to develop the preferred alternative, which became Contract 1.

Mott MacDonald at the direction of the Authority, proceeded to design and package a separate construction contract in order to relocate the PSEG utilities out of the corridor reserved for the Authority's combined sewer system. This work included preliminary test pits, and heavy coordination with the various parties to produce complete Construction Plans and Specifications for what would become Phase 1 of the project.

Mott MacDonald also assisted in the bid and construction services phases and even performed some of the construction inspection of this phase of the project. We also utilized a printing vendor to reproduce the plans and specifications.

4. 11th Street Combined Trunk Sewer Cleaning Project

The original scope of the Madison Street project included heavy cleaning of the 11th Street Combined Trunk Sewer which collects a significant amount of runoff from the H5 Drainage basin and conveys it to the H5 Pump Station.

The scope of this subproject also included the design of new access structures to replace the existing offset access manholes. The new structures were designed to facilitate regular cleaning and maintenance of the trunk sewer. At the Authority's direction, Mott MacDonald packaged this work under a separate construction contract with complete construction plans and specifications produced by Mott MacDonald. We also utilized a printing vendor to reproduce the plans and specifications. Mott MacDonald also assisted with bidding and awarding the contract.



This work was separated out to provide some flood relief to the H5 Drainage Basin while the other Madison Street conflicts were being resolved.

REQUESTED BUDGET FOR ADDITIONAL WORK

Mott MacDonald proposes to complete the services outlined above on a time & materials basis in accordance with Mott MacDonald's Rate Schedule with the NHSA in effect at the time that services are provided, not to exceed the fee shown without written authorization from the Authority.

All work would be completed in accordance with the terms and conditions of the current General Consulting Engineering Services Agreement between Authority and Mott MacDonald.

1. Additional Surveying and Mapping	\$ 5,000.00
2. Coordination with the City of Hoboken	\$ 8,500.00
3. Madison Street Phase 1	\$ 29,000.00*
4. 11th Street Combined Trunk Sewer Cleaning Project	\$ 11,000.00*
5. TWA Extension Fee	\$ <u>1,250.00</u>

Total: \$ 54,750.00

Note that Items No. 3 and No. 4 this includes the cost of reproducing the plans and specifications for these bid packages.

CONCLUSION

Mott MacDonald will provide the Engineering Services in accordance with our existing general consulting agreement.

We look forward to working with you on this project and are available to discuss the details of the above at your convenience. Should you have any questions regarding the above, please do not hesitate to contact us.

Very truly yours,

Mott MacDonald

A handwritten signature in blue ink, appearing to read 'Kevin Wynn'.

Kevin Wynn, PE, PP
Vice President
T +1973-912-2537
kevin.wynn@mottmac.com

**RESOLUTION DIRECTING WORK TO MOTT MACDONALD
FOR PROFESSIONAL ENGINEERING DESIGN AND CONSTRUCTION SERVICES
FOR THE H5 DRAINAGE BASIN IMPROVEMENTS PROJECT**

MOTIONED BY: Friedrich
SECONDED BY: Zucconi

WHEREAS, the North Hudson Sewerage Authority (hereinafter "Authority") is a public body, duly formed under the Sewerage Authorities law, constituting Chapter 138 of the Laws of New Jersey of 1946, as amended (Chapter 14A of Title 40 of the New Jersey Statutes Annotated) and possesses the powers set forth therein; and

WHEREAS, Mott MacDonald has been selected under resolution 16-135 to provide engineering services for various capital projects required throughout its service area that must be performed in order to maximize the performance of its waste water treatment facility, the capacity of its combined sewer system and/or to comply with its New Jersey Pollution Discharge Elimination System (NJPDES) permit; and

WHEREAS, Hatch Mott MacDonald has submitted a proposal (Exhibit "A") to provide Professional Engineering Design and Construction Services for the H5 Drainage Basin Improvements Project; and

WHEREAS, the Facilities Review Board has considered this request and recommends the approval of the full Board.

NOW THEREFORE, BE IT RESOLVED that the Authority, as recommended by the Facilities Review Board, directs Mott MacDonald to provide Professional Engineering Design and Construction Services for the H5 Drainage Basin Improvements Project as outlined in Exhibit "A" and shall be compensated in an amount not to exceed \$83,662.00.

DATED: SEPTEMBER 21, 2017

RECORD OF COMMISSIONERS' VOTE

	YES	NO	ABSENT
Commissioner Assadourian	x		
Commissioner Kappock	x		
Commissioner Marotta			x
Commissioner Gardiner	x		
Commissioner Friedrich	x		
Commissioner Sanchez	x		
Commissioner Velazquez			x
Commissioner Roque	x		
Commissioner Zucconi	x		

THIS IS TO CERTIFY THAT THIS RESOLUTION WAS DULY ADOPTED BY THE NORTH HUDSON BOARD OF COMMISSIONERS ON SEPTEMBER 21, 2017.



SECRETARY



Mr. Fredric J. Pocci, PE Authority Engineer
North Hudson Sewerage Authority
1600 Adams Street
Hoboken, New Jersey 07030

Our Project No. 386716

**Re: North Hudson Sewerage Authority
Proposal for Professional Engineering Services
H5-Drainage Basin Improvements**

111 Wood Avenue South
Iselin NJ 08830-4112
United States of America

September 6, 2017

T +1 (800) 832 3272
F +1 (973) 376 1072
www.mottmac.com/americas

Dear Mr. Pocci

Mott MacDonald is pleased to have been afforded this opportunity to provide the North Hudson Sewerage Authority (NHSA) with our proposal for Professional Engineering Services for the H5 Drainage Basin Improvements Project. We have prepared the following document as you have requested.

It is our understanding that the intersection of Madison Street and 9th Street in the City of Hoboken has a tendency to flood during intense rain events. The Authority has requested a preliminary hydraulic model and evaluation to determine potential solutions for this issue.

Our services will include topographic survey, hydraulic modeling and conceptual cost estimating.

SCOPE OF SERVICES

Mott MacDonald proposes the following scope of services under this proposal:

Task 1: Evaluations

We will review the topographic survey, available as-built drawings of the Madison Avenue/11th Street Sewers, hydraulic model, information from the appropriate utility companies, and historical geotechnical information to develop two alternatives to address the issues of the street flooding at the intersection of Madison Avenue and 9th Street and to improve access to the 11th Street Trunk Sewer.

These two alternatives will be presented to the Authority in the form of a Technical Memorandum. The memo will include a cost analysis, to determine the best means of reducing flooding in the vicinity of Madison Street and 9th Street, a list of



anticipated permits and fees for the project, a breakdown of potential utility relocations and their potential costs, and preliminary drawings.

The analyses will identify realistic alternative approaches and the memo shall include an updated preliminary comparative cost benefit analysis of the preferred solution and any proposed alternates that the engineer may consider.

Task 2: 60% Design

We will prepare 60% design drawings, specifications, and cost estimate for the preferred, approved alternative. This design shall meet all applicable Federal, State, and Local codes and engineering standards and shall be produced for public bid.

The drawing set shall include but not be limited to the following:

1. Cover Sheet (1 sheet)
2. General Notes (1 sheet)
3. Plan and Profile 2 sheets for replacement and 3 sheets for 11th street trunk line cleaning and access (1" = 20' Horizontal and 1" = 5' Vertical)
4. Plans for the reconstruction of the stormwater collection system (included within plan and profile sheets)
5. Construction Details (up to 4 sheets)
6. Structural Details for new access points to the 11th Street Trunk Sewer (1 sheet)
7. Traffic Control Plans (up to 3 sheets)
8. Soil Erosion & Sediment Control (1 sheet)

Project specifications shall use a modified version of the Authority's Standard Front End Specifications and shall contain appropriate project-specific Technical Sections.

We will retain the services of a drilling subcontractor to perform one (1) soil boring, on Madison Street midway between 9th Street and 11th Street. The boring shall be extended to a depth of seventy-five feet to determine if the proposed combined sewer shall be constructed on a pile foundation. During our geotechnical investigation, Mott MacDonald will also conduct environmental due diligence of the samples using visual identification and a photoionization detector (PID). From visual identification and handheld screening tool, discrete soil samples which exhibit evidence of impacts will be submitted to an environmental lab for due diligence testing.

Task 2.2 Permits and Municipality / Utility Coordination

We will prepare the required permit applications, as required and as identified in Task 1 including, but not limited to NJDEP Treatment Works Approval and Hudson, Essex and Passaic Soil Erosion and Sediment Control Conservation District.

We will contact and coordinate with all utility companies having jurisdiction within the project area including but not necessarily limited to water, gas, electric and telecommunications. All acquired utility information shall be added to Bid Documents. All necessary arrangements shall be made to have utility relocations performed and utility company-specific requirements shall be incorporated into the Bid Documents.

Task 2.3 New Jersey Environmental Infrastructure Trust Loan Application



Mott MacDonald will prepare the loan application for submission to the Jersey Department of Environmental Protection (NJDEP) and to the New Jersey Environmental Infrastructure Trust (NJEIT) including all required Planning Documents, Engineer's Estimate, and Cash Flow Schedule. Signed and sealed sets of drawings and specifications shall be provided for submission as part of the application to the NJEIT. We will coordinate with the Authority for the submittal of the Loan Application and required design documents.

Task 2.4 60% Design Review

We will submit a 60% design package including plans, specifications, and a construction cost estimate to the Authority and OMI for review and we will schedule a meeting with the Authority and with the City of Hoboken. All comments will be noted.

Task 3: 90% Design

Mott MacDonald will submit a 90% review package to the Authority for review upon approval of the 60% Design. The 90% submittal shall include plans, specifications, and an updated construction cost estimate, all of which shall have incorporated comments received from the Authority and the City of Hoboken from the 60% design submittal and meeting(s).

Task 4: 100% Design

Mott MacDonald shall incorporate the comments from the Authority on the 90% design into the final 100% (bid ready) design drawings, specifications, and cost estimates. Fifteen (15) copies of the bid ready documents shall be provided to the Authority.

Task 5: Bid Services

Mott MacDonald will provide Bid Services as follows:

- Coordinate with the Authority and the NJDEP, to obtain the Authorization to Advertise
- Attend pre-bid meeting
- Prepare up to two Addenda
- Attend bid opening
- Issue recommendation of award and bid summary report to the Authority

Schedule

We propose to follow the Authority's schedule included in the RFP, reproduced in Table 1, below. Note that this table assumes that submissions will be reviewed and comments provided promptly and that comments received later than 1 week after submittal may delay the submission for the next task.

Table 1 – Preliminary Project Schedule

Task	Description	Date
Task 0	Notice of Award	September 21, 2017
Task 1	Submittal of Design Report	November 1, 2017
Task 2	60% Design Submittal	December 15, 2017
Task 3	90% Design Submittal	January 15, 2018
Task 4	100% Design Submittal	February 1, 2018



Fee Proposal

As requested by the Authority, Mott MacDonald proposes to undertake the above scope of work on a time and material basis for actual time and expenses applied to the project as outlined above and in accordance with our prevailing fee schedule. A copy of our 2017 fee schedule is attached. Services will be invoiced monthly, with payments due in 30 days. As requested in the RFP, a summary of costs and level of effort (in terms of hours expended) for each task is provided below in Table 2. The Final proposed cost is **\$ 83,662.00**.

Table 2 – Itemized Cost and Level of Effort By Task

Task	Description	Hours	Cost
Task 1	Evaluation	23	\$3,035.00
Task 2	60% Design	249	\$38,191.00
Task 2.2	Permits and Municipality / Utility Coordination	62	\$7,698.00
Task 2.3	NJEIT Loan Application	18	\$1,812.00
Task 2.4	60% Design Review	24	\$3,426.00
Task 3	90% Design Package	103	\$15,000.00
Task 4	100% Design	32	\$5,000.00
Task 5	Bid Services	50	\$7,000.00
	Miscellaneous Expenses		\$2,500.00
	Total	561	\$83,662.00

The above budget represents our estimate of the level of effort required to provide complete engineering services for this project. No additional work will be undertaken without prior written approval from the NHSA. The above listed budget fee does not include permit fees.

This proposal does not include any additional engineering services beyond those specified. Additional services beyond those specified will not be conducted unless requested and authorized by the Authority.

Mr. Kevin P. Wynn, PE and John Dening, PE will serve as the Project Managers for this project.

We trust that this proposal fulfills the Authority's requirements and appreciate this opportunity to be of continued service to the Authority. Should you wish to discuss details of this proposal, do not hesitate to contact us.

Very Truly Yours,
Mott MacDonald

Kevin P. Wynn, PE, BCEE
Senior Associate
T973.912.2537
Kevin.wynn@mottmac.com

Peter E. Kocsik, PE
Senior Vice President
T973.912.2549
Peter.Kocsik@mottmac.com