

**RESOLUTION AUTHORIZING CONTRACT MODIFICATION #03
FOR THE H6 H7 CSO LTCP PHASE 1 PROJECT**

MOTIONED BY: Friedrich

SECONDED BY: Guzman

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, pursuant to the approval granted by virtue of R.20-057, the Authority has contracted with J. Fletcher Creamer and Son, Inc., of Hackensack, New Jersey, in the amount of \$20,318,485.00 for the H6 H7 CSO LTCP Project; and

WHEREAS, a previous contract modification was approved increasing the total contract price to \$20,601,142.32; and

WHEREAS, this contract modification has been requested in order to efficiently advance the project as described in the report identified as "Exhibit A", with the additional work being documented as required by HAZEN, the project engineer.

NOW, THEREFORE, BE IT RESOLVED that the Authority hereby authorizes the execution and implementation of said contract modification #03 in the amount not to exceed \$107,399.57.

DATED: AUGUST 17, 2023

RECORD OF COMMISSIONERS' VOTE

	YES	NO	ABSENT
Commissioner Kappock	x		
Commissioner Marotta	x		
Commissioner Gardiner	x		
Commissioner Friedrich	x		
Commissioner Guzman	x		
Commissioner Velazquez			x
Commissioner Barrera			x
Commissioner Zucconi	x		
Commissioner Assadourian	x		

THIS IS TO CERTIFY THAT THIS RESOLUTION WAS DULY ADOPTED BY THE NORTH HUDSON BOARD OF COMMISSIONERS ON AUGUST 17, 2023.



SECRETARY



Hazen and Sawyer
99 Wood Ave South, 8th Floor, Suite 803
Iselin, NJ 08830 • 732-491-2810

August 16, 2023

Donald R Conger III, P.E.
Authority Engineer
North Hudson Sewerage Authority
1600 Adams St.
Hoboken, NJ, 07030

Re: H6/H7 CSO LTCP, Phase 1 - Change Order No. 3

Dear Mr. Conger:

Per this letter, Hazen is seeking Authority approval to prepare Change Order No. 3 to the referenced Contract in the amount of \$107,399.57. Change Order No. 3 represents an adjustment in the unit quantities of work to account for the Contractor’s operation of groundwater treatment equipment throughout the construction period, and reimbursement to NHSA for additional services provided by the Authority’s Engineer. Change Order No. 3 is the final change order for the H6/H7 Phase 1 project.

As a result of Change Order No. 3, the contract value will be adjusted as follows:

Original	\$20,318,485.00
Total of Previous Change Orders.....	\$ 57,085.80
Change Order No. 3	\$ 107,399.57
Total Contract Cost including Change Orders.....	\$20,482,970.37

The total of all the change orders on the H6/H7 Phase 1 project represents an increase of 0.8% above the original bid price for the work.

A copy of draft Change Order No. 3, along with a table indicating the final unit price quantities, is attached for your use. Kindly advise us of the Authority’s approval of the proposed change order.

Very truly yours,

Kevin D. Haney, PE, BCEE
Senior Associate

cc: F. Pocci, B. Vega – NHSA
S. Brennan – Hazen

90370-000

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

1. ISSUING OFFICE North Hudson Sewerage Authority	2. PROJECT NO.	3. CONTRACT NO.	4. MODIFICATION NO.
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5. TO (CONTRACTOR)	6. PROJECT LOCATION AND DESCRIPTION
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7. A proposal is required for making the hereinafter described change in accordance with specification and drawing revisions cited herein or listed in attachment hereto. Submit your proposal in space indicated on page 2, attach detailed breakdown of prime and sub-contract costs (See the clause of this contract entitled, "Changes". DO NOT start work under this proposed change until you receive a copy signed by the Contracting Officer or a directive to proceed).

_____ Date _____ Type Name and Title _____ Signature

8. DESCRIPTION OF CHANGE: Pursuant to the clause of this contract covering changes, the contractor shall furnish all labor and material, and all work necessary to accomplish the following described work:

As a result of the above, the contract price is revised as follows:

ITEM NO.	ITEM DESCRIPTION	UNIT PRICE	ESTIMATED QUANTITY	TOTAL COST
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TOTAL COST OF THIS MODIFICATION \$ _____

The contract time is hereby: increase decrease or remains the same by _____ calendar days as a result of this modification.

The foregoing modification is hereby accepted:

CONTRACTOR	OWNER	(NJPE SEAL)	ENGINEER
BY: _____	BY: _____	BY: _____	
DATE: _____	DATE: _____	DATE: _____	

APPROVAL:

_____ STATE OF NEW JERSEY _____ DATE

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

9. ISSUING OFFICE North Hudson Sewerage Authority	10. PROJECT NO.	11. CONTRACT NO.	12. MODIFICATION NO.
13. CONTRACTOR'S PROPOSAL – CHANGE IN CONTRACT PRICE (Detailed breakdown, attach additional sheets as necessary)			
(Proposed) -			
NET INCREASE \$ _____	NET DECREASE \$ _____	CALENDER DAYS INCREASE _____ DAYS	
DATE:	TYPE NAME AND TITLE:	SIGNATURE:	

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

14. ISSUING OFFICE & PROJECT NO. North Hudson Sewerage Authority	15. CONTRACT NO.	16. MODIFICATION NO.
17. ORIGINAL CONTRACT BID PRICE \$ <u>20,318,485.00</u> TOTAL OF PREVIOUS CHANGE ORDERS \$ _____ TOTAL CONTRACT COST INCLUDING CHANGE ORDERS ... \$ <u>20,482,970.37</u>		
18. NECESSITY FOR CHANGE AND REASON FOR OMISSION FROM PLANS AND SPECIFICATIONS:		
19. OTHER IMPACTS RESULTANT OF THIS CHANGE:		
20. RESUME OF NEGOTIATIONS OR RECOMMENDATIONS (Loanee's Representative) :		
DATE:	TYPE NAME AND TITLE OF LOANEE'S REPRESENTATIVE:	SIGNATURE:

**North Hudson Sewerage Authority
H6/H7 CSO LTCP - Phase 1**

Tabulation of Final Unit Price Quantities

ITEM	DESCRIPTION	UNIT	Contract Value			Value at Completion		Percent Complete
			Q	Unit Price	Amount	Q	Amount	
SCHEDULE A - COMPLETE PHASE 1 OF H6/H7 PROJECT - UNIT PRICE SCHEDULE								
UA-1 Stormwater Pump Station and Control Building Areas								
UA-1a	Furnish and Installing Pre-Production Test Micropile	LF	95.00	\$ 1,100.00	\$ 104,500.00	190.00	\$ 209,000.00	200%
UA-1b	Testing of Pre-Production Test Micropile	EA	1.00	\$ 50,000.00	\$ 50,000.00	2.00	\$ 100,000.00	200%
UA-1c	Furnish and Install Production Micropiles	LF	6900.00	\$ 200.00	\$ 1,380,000.00	3243.34	\$ 648,668.93	47%
UA-1d	Additional Controlled Low Strength Material - CLSM (if and where directed)	CY	100.00	\$ 175.00	\$ 17,500.00	20.00	\$ 3,500.00	20%
UA-1e	Additional Gravel, #57 Stone (if and where directed)	CY	20.00	\$ 40.00	\$ 800.00	-	\$ -	-
UA-1f	Additional Granular Fill, 1-inch minus stone (if and where directed)	CY	40.00	\$ 40.00	\$ 1,600.00	-	\$ -	-
UA-1g	Additional Sand (if and where directed)	CY	40.00	\$ 40.00	\$ 1,600.00	-	\$ -	-
UA-1h	Additional Crushed Stone, #3 (if and where directed)	CY	40.00	\$ 40.00	\$ 1,600.00	-	\$ -	-
UA-2 Miscellaneous Work Items								
UA-2a	Transportation and Disposal of Hazardous Material	AL	1.00	\$ 200,000.00	\$ 200,000.00	1.19	\$ 238,380.06	119%
UA-2b	Allowance for Unforeseen Contingencies	AL	1.00	\$ 100,000.00	\$ 100,000.00	1.16	\$ 116,349.29	116%
UA-2c	Allowance for Operation and Treatment of Dewatering from NWRP Contractor's Tank	AL	6.00	\$ 40,000.00	\$ 240,000.00	4.05	\$ 162,079.50	68%
UA-3 For Constructing the 13th Street Primary Flood Mitigation Project								
UA-3a	Excavation, Backfill, and Compaction	CY	5750.00	\$ 5.00	\$ 28,750.00	4860.87	\$ 24,304.33	85%
UA-3b	Furnish & Install Dense Graded Aggregate	CY	4750.00	\$ 40.00	\$ 190,000.00	4058.53	\$ 162,341.16	85%
UA-3c	Furnish & Install Stone Bedding (NJDOT No. 57)	CY	400.00	\$ 40.00	\$ 16,000.00	189.28	\$ 7,571.00	47%
UA-3d	Furnish & Install 2-inch stone (if and where directed)	CY	60.00	\$ 40.00	\$ 2,400.00	-	\$ -	-
UA-3e	Furnish & Install Flowable Fill	CY	250.00	\$ 175.00	\$ 43,750.00	-	\$ -	-
UA-3f	Sheeting Left in Place	SF	3000.00	\$ 60.00	\$ 180,000.00	54.45	\$ 3,267.00	2%
UA-3g	Test Pits	CY	500.00	\$ 100.00	\$ 50,000.00	398.21	\$ 39,820.70	80%
UA-3h	Demolition of Existing Flushing Chambers	EA	2.00	\$ 75,000.00	\$ 150,000.00	3.00	\$ 225,000.00	150%
UA-3i	Excavation of Reinforced Concrete or Cobblestone Road Base	CY	100.00	\$ 215.00	\$ 21,500.00	153.47	\$ 32,996.05	153%
UA-3j	Furnish & Install Steel H-Piles	LF	13450.00	\$ 75.00	\$ 1,008,750.00	10501.73	\$ 787,630.12	78%
UA-3k	Furnish & Install Helical Piles	LF	1450.00	\$ 110.00	\$ 159,500.00	4583.33	\$ 504,166.30	316%
UA-3l	Furnish & Install Concrete Pile Cap Type-1	EA	35.00	\$ 3,000.00	\$ 105,000.00	27.00	\$ 81,000.00	77%
UA-3m	Furnish & Install Concrete Pile Cap Type-2	EA	12.00	\$ 2,800.00	\$ 33,600.00	8.00	\$ 22,400.00	67%
UA-3n	Furnish & Install Concrete Pile Cap Type-3	EA	1.00	\$ 17,500.00	\$ 17,500.00	1.00	\$ 17,500.00	100%
UA-3o	Furnish & Install Concrete Pile Cap Type-4	EA	1.00	\$ 14,000.00	\$ 14,000.00	-	\$ -	-
UA-3p	Furnish & Install Concrete Pipe Cradles - Precast	SF	3500.00	\$ 85.00	\$ 297,500.00	2486.28	\$ 211,333.38	71%
UA-3q	Furnish & Install Concrete Pipe Cradles - Cast in Place	SF	1000.00	\$ 90.00	\$ 90,000.00	405.00	\$ 36,450.00	41%
UA-3r	Furnish & Install 30" Diameter Ductile Iron Pipe, Class 54	LF	230.00	\$ 750.00	\$ 172,500.00	179.17	\$ 134,375.03	78%
UA-3s	Furnish & Install 30" Diameter Ductile Iron Pipe Fittings, Class 54	TON	2.50	\$ 30,000.00	\$ 75,000.00	5.21	\$ 156,180.00	208%
UA-3t	Furnish & Install Pressure Relief Valve & Enclosures for 30" DIP Force Main	EA	2.00	\$ 17,500.00	\$ 35,000.00	1.00	\$ 17,500.00	50%
UA-3u	Replace/Install 54" Diameter CCFRPM Stormwater Pipe & Fittings	LF	50.00	\$ 1,750.00	\$ 87,500.00	45.67	\$ 79,917.25	91%
UA-3v	Replace/Install 48" Diameter CCFRPM Stormwater Pipe & Fittings	LF	135.00	\$ 1,500.00	\$ 202,500.00	130.17	\$ 195,250.50	96%
UA-3w	Replace/Install 42" Diameter CCFRPM Stormwater Pipe & Fittings	LF	175.00	\$ 1,400.00	\$ 245,000.00	169.00	\$ 236,600.00	97%
UA-3x	Replace/Install 36" Diameter CCFRPM Stormwater Pipe & Fittings	LF	355.00	\$ 1,650.00	\$ 585,750.00	287.30	\$ 474,045.00	81%
UA-3y	Replace/Install 30" Diameter PVC Stormwater Pipe & Fittings	LF	60.00	\$ 1,400.00	\$ 84,000.00	-	\$ -	-
UA-3z	Replace/Install 12" DIP, Class 54	LF	230.00	\$ 25.00	\$ 5,750.00	62.00	\$ 1,550.00	27%
UA-3aa	Replace/Install 12" PVC SDR 26 (PS-115) (if and where directed)	LF	280.00	\$ 35.00	\$ 9,800.00	172.00	\$ 6,020.00	61%
UA-3ab	Replace/Install 8" PVC SDR 26 (PS-115) (if and where directed)	LF	90.00	\$ 115.00	\$ 10,350.00	76.50	\$ 8,797.50	85%
UA-3ac	Furnish & Install Inlet Type A	EA	17.00	\$ 1,150.00	\$ 19,550.00	14.00	\$ 16,100.00	82%
UA-3ad	Furnish & Install Special Stormwater Structure - Type 1	EA	3.00	\$ 60,000.00	\$ 180,000.00	3.00	\$ 180,000.00	100%
UA-3ae	Furnish & Install Special Stormwater Structure - Type 2	EA	2.00	\$ 65,000.00	\$ 130,000.00	2.00	\$ 130,000.00	100%
UA-3af	Furnish & Install Special Stormwater Structure - Type 3	EA	1.00	\$ 80,000.00	\$ 80,000.00	1.00	\$ 80,000.00	100%
UA-3ag	Furnish & Install Special Stormwater Structure - Type 4	EA	1.00	\$ 65,000.00	\$ 65,000.00	1.00	\$ 65,000.00	100%
UA-3ah	Replace/Install 4' Diameter Sanitary Manhole	EA	4.00	\$ 16,500.00	\$ 66,000.00	5.80	\$ 95,700.00	145%
UA-3ai	Furnish & Install Air Vacuum Valve Chamber	EA	2.00	\$ 5,000.00	\$ 10,000.00	1.00	\$ 5,000.00	50%
UA-3aj	Base Course Pavement Restoration, 6" Thick	SY	1564.00	\$ 50.00	\$ 78,200.00	1822.79	\$ 91,139.50	117%
UA-3ak	2" Mill and Top Course Pavement Restoration	SY	2500.00	\$ 27.00	\$ 67,500.00	-	\$ -	-
UA-3al	Remove & Replace Concrete Curbing	LF	960.00	\$ 60.00	\$ 57,600.00	1226.50	\$ 73,590.00	128%
UA-3am	Remove & Replace Concrete Sidewalk, 4" Thick	SY	1306.00	\$ 120.00	\$ 156,720.00	1097.22	\$ 131,666.40	84%
UA-3an	Remove & Replace Concrete Driveway Apron, 6" Thick	SY	50.00	\$ 150.00	\$ 7,500.00	48.18	\$ 7,227.00	96%
UA-3ao	Install new ADA Ramp	EA	6.00	\$ 500.00	\$ 3,000.00	12.00	\$ 6,000.00	200%
UA-3ap	Reset Paver Blocks	SY	35.00	\$ 110.00	\$ 3,850.00	175.42	\$ 19,296.20	501%
UA-3aq	Furnish & Install Street Trees (if and where directed)	EA	10.00	\$ 1,000.00	\$ 10,000.00	5.00	\$ 5,000.00	50%
UA-3ar	Furnish & Install 8" Diameter DIP	LF	125.00	\$ 125.00	\$ 15,625.00	-	\$ -	-
UA-3as	Furnish & Install 8" Diameter DIP Fittings	TON	0.50	\$ 7,000.00	\$ 3,500.00	-	\$ -	-
UA-3at	Furnish & Install 8" Diameter Gate Valve (if and where directed)	EA	1.00	\$ 1,500.00	\$ 1,500.00	-	\$ -	-
UA-3au	Disposal of Material Classified as ID-27	TON	6750.00	\$ 60.00	\$ 405,000.00	9462.29	\$ 567,737.40	140%
UA-3av	Environmental Protection Measures	AL	1.00	\$ 50,000.00	\$ 50,000.00	1.00	\$ 50,000.00	100%

**North Hudson Sewerage Authority
H6/H7 CSO LTCP - Phase 1**

Tabulation of Final Unit Price Quantities

ITEM	DESCRIPTION	UNIT	Contract Value			Value at Completion		Percent Complete
			Q	Unit Price	Amount	Q	Amount	
UA-3aw	Allowance for Dewatering	AL	1.00	\$ 200,000.00	\$ 200,000.00	2.01	\$ 401,216.18	201%
UA-3ax	Allowance for Off-Duty Police	AL	1.00	\$ 175,000.00	\$ 175,000.00	1.62	\$ 284,320.00	162%
UA-3ay	Allowance for Utility Relocation	AL	1.00	\$ 200,000.00	\$ 200,000.00	1.53	\$ 306,485.40	153%
UA-3az	Transportation and Disposal of Hazardous Material	AL	1.00	\$ 50,000.00	\$ 50,000.00	13.34	\$ 667,212.43	1334%
UA-3ba	Allowance for Fuel Price Adjustment	AL	1.00	\$ 10,000.00	\$ 10,000.00	1.65	\$ 16,491.69	165%
UA-3bb	Allowance for Asphalt Price Adjustment	AL	1.00	\$ 10,000.00	\$ 10,000.00	-	\$ -	
TOTAL Schedule A					\$ 8,074,545.00		\$ 8,143,175.28	100.85%
SCHEDULE B - ADVANCED HYDRODYNAMIC SEPARATORS AND RELATED FACILITIES - UNIT PRICE SCHEDULE								
UB-1 Advanced Hydrodynamic Separators and Related Facilities								
UB-1a	Furnish & Install Production Micropiles	LF	3500.00	\$ 225.00	\$ 787,500.00	2764.51	\$ 622,015.21	79%
UB-1b	Additional Controlled Low Strength Material - CLSM (if and where directed)	CY	100.00	\$ 185.00	\$ 18,500.00	100.00	\$ 18,500.00	100%
UB-1c	Additional Gravel, #57 Stone (if and where directed)	CY	20.00	\$ 42.00	\$ 840.00	20.00	\$ 840.00	100%
UB-1D	Additional Granular Fill, 1-inch minus stone (if and where directed)	CY	40.00	\$ 45.00	\$ 1,800.00	-	\$ -	
UB-1e	Additional Sand (if and where directed)	CY	40.00	\$ 50.00	\$ 2,000.00	-	\$ -	
UB-1f	Additional Crushed Stone, #3 (if and where directed)	CY	40.00	\$ 50.00	\$ 2,000.00	-	\$ -	
UB-2 Miscellaneous Work Items								
UB-2a	Transportation & Disposal of Hazardous Material	AL	1.00	\$ 100,000.00	\$ 100,000.00	1.19	\$ 119,065.29	119%
UB-2b	Allowance for Unforeseen Contingencies	AL	1.00	\$ 100,000.00	\$ 100,000.00	1.48	\$ 147,530.73	148%
TOTAL Schedule B					\$ 1,012,640.00		\$ 907,951.23	89.66%
GRAND TOTAL					\$ 9,087,185.00		\$ 9,051,126.51	99.60%

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

1. ISSUING OFFICE North Hudson Sewerage Authority	2. PROJECT NO. S340952-33	3. CONTRACT NO. -----	4. MODIFICATION NO. 3
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5. TO (CONTRACTOR) J. Fletcher Creamer & Son, Inc 101 East Broadway, Hackensack, NJ 07601	6. PROJECT LOCATION AND DESCRIPTION H6/H7 Combined Sewer Overflow Long Term Control Plan Project, Phase 1, Hoboken, NJ
---	---

7. A proposal is required for making the hereinafter described change in accordance with specification and drawing revisions cited herein or listed in attachment hereto. Submit your proposal in space indicated on page 2, attach detailed breakdown of prime and sub-contract costs (See the clause of this contract entitled, "Changes". DO NOT start work under this proposed change until you receive a copy signed by the Contracting Officer or a directive to proceed).

08/16/2023

Date

Kevin D. Haney, Senior Associate

Type Name and Title

Kevin D. Haney

Signature

Digitally signed by Kevin D. Haney
DN: CN=US,
E=Khaney@hazenandsawyer.com,
O=Hazen and Sawyer, CN=Kevin D. Haney
Date: 2023.08.16 15:44:29-0400'

8. DESCRIPTION OF CHANGE: Pursuant to the clause of this contract covering changes, the contractor shall furnish all labor and material, and all work necessary to accomplish the following described work:

Item 1: Corrected Final Unit Price Quantities based upon additional work performed by the Contractor since the previous change order.

Item 2: Credit to the Owner for Additional Engineering Support required during progress of the Work.

As a result of the above, the contract price is revised as follows:

ITEM NO.	ITEM DESCRIPTION	UNIT PRICE	ESTIMATED QUANTITY	TOTAL COST
1	Corrected Final Unit Price Quantities	\$ 189,513.00	1.00	\$ 189,513.03
2	Additional Engineering Support	\$ 82,113.46	1.00	\$ 82,113.46
				\$ 0.00
				\$ 0.00
				\$ 0.00
				\$ 0.00

TOTAL COST OF THIS MODIFICATION \$ 107,399.57

The contract time is hereby: increase decrease or remains the same by 0 calendar days as a result of this modification.

The foregoing modification is hereby accepted:

_____ CONTRACTOR BY: <u>Donald Luxama</u> DATE: _____	_____ OWNER BY: <u>Donald Conger</u> DATE: <u>08/16/2023</u>	_____ (NJPE SEAL) ENGINEER BY: <u>Kevin Haney</u> DATE: <u>08/16/2023</u>
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Digitally signed by Donald R. Conger III
Conger III
Date: 2023.08.16 16:40:10 -0400'

Digitally signed by Kevin D. Haney
DN: CN=US,
E=Khaney@hazenandsawyer.com,
O=Hazen and Sawyer, CN=Kevin D. Haney
Date: 2023.08.16 15:44:41-0400'

APPROVAL:

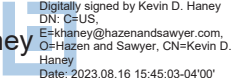
_____ STATE OF NEW JERSEY

_____ DATE

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

9. ISSUING OFFICE North Hudson Sewerage Authority	10. PROJECT NO. S340952-33	11. CONTRACT NO. -----	12. MODIFICATION NO. 3
13. CONTRACTOR'S PROPOSAL – CHANGE IN CONTRACT PRICE (Detailed breakdown, attach additional sheets as necessary)			
(Proposed) Item 1: Contractor has submitted backup for utilization of Unit Price Item UA-2c - Allowance for Operation and Treatment of Dewatering from NWRP Contractor's Tank. This changes the final unit quantities agreed upon under Change Order No. 2. Item 2: Additional Engineering support required from the Owner's Engineer during progress of the work.			
NET INCREASE \$ \$ <u>107,399.57</u>		NET DECREASE \$ \$ <u>0.00</u>	
CALENDER DAYS INCREASE <u>0</u> DAYS			
DATE: 08/16/2023	TYPE NAME AND TITLE: Kevin D. Haney, Senior Associate		SIGNATURE: Kevin D. Haney <div style="font-size: small; margin-top: 5px;"> Digitally signed by Kevin D. Haney DN: C=US, E=khaney@hazenandsawyer.com, O=Hazen and Sawyer, CN=Kevin D. Haney Date: 2023.08.16 15:44:53-04'00' </div>

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

14. ISSUING OFFICE & PROJECT NO. North Hudson Sewerage Authority S340952-33	15. CONTRACT NO. -----	16. MODIFICATION NO. 3
17. ORIGINAL CONTRACT BID PRICE \$ <u>20,318,485.00</u> TOTAL OF PREVIOUS CHANGE ORDERS \$ <u>57,085.80</u> TOTAL CONTRACT COST INCLUDING CHANGE ORDERS ... \$ <u>20,452,085.80</u>		
18. NECESSITY FOR CHANGE AND REASON FOR OMISSION FROM PLANS AND SPECIFICATIONS: Costs for unit price work performed by the Contractor related to operation of groundwater treatment equipment throughout the construction period. This affected the final quantities of unit price items for the Contract. See attached document for final unit price quantities. The Contractor required additional engineering support from the Owner's engineer during progress of the work.		
19. OTHER IMPACTS RESULTANT OF THIS CHANGE: None		
20. RESUME OF NEGOTIATIONS OR RECOMMENDATIONS (Loanee's Representative) : After Change Order No. 2 was executed, the Contractor and Engineer negotiated unit quantities for operation of groundwater treatment equipment during the construction period. This Change Order captures that additional unit price work completed by the Contractor. During progress of the work the Contractor requested additional engineering support from the Owner's engineer and agreed to compensate the Owner for such services. The final cost of this item was negotiated with the Contractor. Hazen recommends acceptance of this change order.		
DATE: 08/16/2023	TYPE NAME AND TITLE OF LOANEE'S REPRESENTATIVE: Kevin D. Haney, Senior Associate	SIGNATURE: Kevin D. Haney 

**North Hudson Sewerage Authority
H6/H7 CSO LTCP - Phase 1**

Tabulation of Final Unit Price Quantities

ITEM	DESCRIPTION	UNIT	Contract Value			Value at Completion		Percent Complete
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UA-1b	Testing of Pre-Production Test Micropile	EA	1.00	\$ 50,000.00	\$ 50,000.00	2.00	\$ 100,000.00	200%
UA-1c	Furnish and Install Production Micropiles	LF	6900.00	\$ 200.00	\$ 1,380,000.00	3243.34	\$ 648,668.93	47%
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UA-1e	Additional Gravel, #57 Stone (if and where directed)	CY	20.00	\$ 40.00	\$ 800.00	-	\$ -	
UA-1f	Additional Granular Fill, 1-inch minus stone (if and where directed)	CY	40.00	\$ 40.00	\$ 1,600.00	-	\$ -	
UA-1g	Additional Sand (if and where directed)	CY	40.00	\$ 40.00	\$ 1,600.00	-	\$ -	
UA-1h	Additional Crushed Stone, #3 (if and where directed)	CY	40.00	\$ 40.00	\$ 1,600.00	-	\$ -	
UA-2 Miscellaneous Work Items								
UA-2a	Transportation and Disposal of Hazardous Material	AL	1.00	\$ 200,000.00	\$ 200,000.00	1.19	\$ 238,380.06	119%
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UA-3 For Constructing the 13th Street Primary Flood Mitigation Project								
UA-3a	Excavation, Backfill, and Compaction	CY	5750.00	\$ 5.00	\$ 28,750.00	4860.87	\$ 24,304.33	85%
UA-3b	Furnish & Install Dense Graded Aggregate	CY	4750.00	\$ 40.00	\$ 190,000.00	4058.53	\$ 162,341.16	85%
UA-3c	Furnish & Install Stone Bedding (NJDOT No. 57)	CY	400.00	\$ 40.00	\$ 16,000.00	189.28	\$ 7,571.00	47%
UA-3d	Furnish & Install 2-inch stone (if and where directed)	CY	60.00	\$ 40.00	\$ 2,400.00	-	\$ -	
UA-3e	Furnish & Install Flowable Fill	CY	250.00	\$ 175.00	\$ 43,750.00	-	\$ -	
UA-3f	Sheeting Left in Place	SF	3000.00	\$ 60.00	\$ 180,000.00	54.45	\$ 3,267.00	2%
UA-3g	Test Pits	CY	500.00	\$ 100.00	\$ 50,000.00	398.21	\$ 39,820.70	80%
UA-3h	Demolition of Existing Flushing Chambers	EA	2.00	\$ 75,000.00	\$ 150,000.00	3.00	\$ 225,000.00	150%
UA-3i	Excavation of Reinforced Concrete or Cobblestone Road Base	CY	100.00	\$ 215.00	\$ 21,500.00	153.47	\$ 32,996.05	153%
UA-3j	Furnish & Install Steel H-Piles	LF	13450.00	\$ 75.00	\$ 1,008,750.00	10501.73	\$ 787,630.12	78%
UA-3k	Furnish & Install Helical Piles	LF	1450.00	\$ 110.00	\$ 159,500.00	4583.33	\$ 504,166.30	316%
UA-3l	Furnish & Install Concrete Pile Cap Type-1	EA	35.00	\$ 3,000.00	\$ 105,000.00	27.00	\$ 81,000.00	77%
UA-3m	Furnish & Install Concrete Pile Cap Type-2	EA	12.00	\$ 2,800.00	\$ 33,600.00	8.00	\$ 22,400.00	67%
UA-3n	Furnish & Install Concrete Pile Cap Type-3	EA	1.00	\$ 17,500.00	\$ 17,500.00	1.00	\$ 17,500.00	100%
UA-3o	Furnish & Install Concrete Pile Cap Type-4	EA	1.00	\$ 14,000.00	\$ 14,000.00	-	\$ -	
UA-3p	Furnish & Install Concrete Pipe Cradles - Precast	SF	3500.00	\$ 85.00	\$ 297,500.00	2486.28	\$ 211,333.38	71%
UA-3q	Furnish & Install Concrete Pipe Cradles - Cast in Place	SF	1000.00	\$ 90.00	\$ 90,000.00	405.00	\$ 36,450.00	41%
UA-3r	Furnish & Install 30" Diameter Ductile Iron Pipe, Class 54	LF	230.00	\$ 750.00	\$ 172,500.00	179.17	\$ 134,375.03	78%
UA-3s	Furnish & Install 30" Diameter Ductile Iron Pipe Fittings, Class 54	TON	2.50	\$ 30,000.00	\$ 75,000.00	5.21	\$ 156,180.00	208%
UA-3t	Furnish & Install Pressure Relief Valve & Enclosures for 30" DIP Force Main	EA	2.00	\$ 17,500.00	\$ 35,000.00	1.00	\$ 17,500.00	50%
UA-3u	Replace/Install 54" Diameter CCFRPM Stormwater Pipe & Fittings	LF	50.00	\$ 1,750.00	\$ 87,500.00	45.67	\$ 79,917.25	91%
UA-3v	Replace/Install 48" Diameter CCFRPM Stormwater Pipe & Fittings	LF	135.00	\$ 1,500.00	\$ 202,500.00	130.17	\$ 195,250.50	96%
UA-3w	Replace/Install 42" Diameter CCFRPM Stormwater Pipe & Fittings	LF	175.00	\$ 1,400.00	\$ 245,000.00	169.00	\$ 236,600.00	97%
UA-3x	Replace/Install 36" Diameter CCFRPM Stormwater Pipe & Fittings	LF	355.00	\$ 1,650.00	\$ 585,750.00	287.30	\$ 474,045.00	81%
UA-3y	Replace/Install 30" Diameter PVC Stormwater Pipe & Fittings	LF	60.00	\$ 1,400.00	\$ 84,000.00	-	\$ -	
UA-3z	Replace/Install 12" DIP, Class 54	LF	230.00	\$ 25.00	\$ 5,750.00	62.00	\$ 1,550.00	27%
UA-3aa	Replace/Install 12" PVC SDR 26 (PS-115) (if and where directed)	LF	280.00	\$ 35.00	\$ 9,800.00	172.00	\$ 6,020.00	61%
UA-3ab	Replace/Install 8" PVC SDR 26 (PS-115) (if and where directed)	LF	90.00	\$ 115.00	\$ 10,350.00	76.50	\$ 8,797.50	85%
UA-3ac	Furnish & Install Inlet Type A	EA	17.00	\$ 1,150.00	\$ 19,550.00	14.00	\$ 16,100.00	82%
UA-3ad	Furnish & Install Special Stormwater Structure - Type 1	EA	3.00	\$ 60,000.00	\$ 180,000.00	3.00	\$ 180,000.00	100%
UA-3ae	Furnish & Install Special Stormwater Structure - Type 2	EA	2.00	\$ 65,000.00	\$ 130,000.00	2.00	\$ 130,000.00	100%
UA-3af	Furnish & Install Special Stormwater Structure - Type 3	EA	1.00	\$ 80,000.00	\$ 80,000.00	1.00	\$ 80,000.00	100%
UA-3ag	Furnish & Install Special Stormwater Structure - Type 4	EA	1.00	\$ 65,000.00	\$ 65,000.00	1.00	\$ 65,000.00	100%
UA-3ah	Replace/Install 4' Diameter Sanitary Manhole	EA	4.00	\$ 16,500.00	\$ 66,000.00	5.80	\$ 95,700.00	145%
UA-3ai	Furnish & Install Air Vacuum Valve Chamber	EA	2.00	\$ 5,000.00	\$ 10,000.00	1.00	\$ 5,000.00	50%
UA-3aj	Base Course Pavement Restoration, 6" Thick	SY	1564.00	\$ 50.00	\$ 78,200.00	1822.79	\$ 91,139.50	117%
UA-3ak	2" Mill and Top Course Pavement Restoration	SY	2500.00	\$ 27.00	\$ 67,500.00	-	\$ -	
UA-3al	Remove & Replace Concrete Curbing	LF	960.00	\$ 60.00	\$ 57,600.00	1226.50	\$ 73,590.00	128%
UA-3am	Remove & Replace Concrete Sidewalk, 4" Thick	SY	1306.00	\$ 120.00	\$ 156,720.00	1097.22	\$ 131,666.40	84%
UA-3an	Remove & Replace Concrete Driveway Apron, 6" Thick	SY	50.00	\$ 150.00	\$ 7,500.00	48.18	\$ 7,227.00	96%
UA-3ao	Install new ADA Ramp	EA	6.00	\$ 500.00	\$ 3,000.00	12.00	\$ 6,000.00	200%
UA-3ap	Reset Paver Blocks	SY	35.00	\$ 110.00	\$ 3,850.00	175.42	\$ 19,296.20	501%
UA-3aq	Furnish & Install Street Trees (if and where directed)	EA	10.00	\$ 1,000.00	\$ 10,000.00	5.00	\$ 5,000.00	50%
UA-3ar	Furnish & Install 8" Diameter DIP	LF	125.00	\$ 125.00	\$ 15,625.00	-	\$ -	
UA-3as	Furnish & Install 8" Diameter DIP Fittings	TON	0.50	\$ 7,000.00	\$ 3,500.00	-	\$ -	
UA-3at	Furnish & Install 8" Diameter Gate Valve (if and where directed)	EA	1.00	\$ 1,500.00	\$ 1,500.00	-	\$ -	
UA-3au	Disposal of Material Classified as ID-27	TON	6750.00	\$ 60.00	\$ 405,000.00	9462.29	\$ 567,737.40	140%
UA-3av	Environmental Protection Measures	AL	1.00	\$ 50,000.00	\$ 50,000.00	1.00	\$ 50,000.00	100%

**North Hudson Sewerage Authority
H6/H7 CSO LTCP - Phase 1**

Tabulation of Final Unit Price Quantities

ITEM	DESCRIPTION	UNIT	Contract Value			Value at Completion		Percent Complete
			Q	Unit Price	Amount	Q	Amount	
UA-3aw	Allowance for Dewatering	AL	1.00	\$ 200,000.00	\$ 200,000.00	2.01	\$ 401,216.18	201%
UA-3ax	Allowance for Off-Duty Police	AL	1.00	\$ 175,000.00	\$ 175,000.00	1.62	\$ 284,320.00	162%
UA-3ay	Allowance for Utility Relocation	AL	1.00	\$ 200,000.00	\$ 200,000.00	1.53	\$ 306,485.40	153%
UA-3az	Transportation and Disposal of Hazardous Material	AL	1.00	\$ 50,000.00	\$ 50,000.00	13.34	\$ 667,212.43	1334%
UA-3ba	Allowance for Fuel Price Adjustment	AL	1.00	\$ 10,000.00	\$ 10,000.00	1.65	\$ 16,491.69	165%
UA-3bb	Allowance for Asphalt Price Adjustment	AL	1.00	\$ 10,000.00	\$ 10,000.00	-	\$ -	
TOTAL Schedule A					\$ 8,074,545.00		\$ 8,143,175.28	100.85%
SCHEDULE B - ADVANCED HYDRODYNAMIC SEPARATORS AND RELATED FACILITIES - UNIT PRICE SCHEDULE								
UB-1 Advanced Hydrodynamic Separators and Related Facilities								
UB-1a	Furnish & Install Production Micropiles	LF	3500.00	\$ 225.00	\$ 787,500.00	2764.51	\$ 622,015.21	79%
UB-1b	Additional Controlled Low Strength Material - CLSM (if and where directed)	CY	100.00	\$ 185.00	\$ 18,500.00	100.00	\$ 18,500.00	100%
UB-1c	Additional Gravel, #57 Stone (if and where directed)	CY	20.00	\$ 42.00	\$ 840.00	20.00	\$ 840.00	100%
UB-1D	Additional Granular Fill, 1-inch minus stone (if and where directed)	CY	40.00	\$ 45.00	\$ 1,800.00	-	\$ -	
UB-1e	Additional Sand (if and where directed)	CY	40.00	\$ 50.00	\$ 2,000.00	-	\$ -	
UB-1f	Additional Crushed Stone, #3 (if and where directed)	CY	40.00	\$ 50.00	\$ 2,000.00	-	\$ -	
UB-2 Miscellaneous Work Items								
UB-2a	Transportation & Disposal of Hazardous Material	AL	1.00	\$ 100,000.00	\$ 100,000.00	1.19	\$ 119,065.29	119%
UB-2b	Allowance for Unforeseen Contingencies	AL	1.00	\$ 100,000.00	\$ 100,000.00	1.48	\$ 147,530.73	148%
TOTAL Schedule B					\$ 1,012,640.00		\$ 907,951.23	89.66%
GRAND TOTAL					\$ 9,087,185.00		\$ 9,051,126.51	99.60%