

**RESOLUTION AUTHORIZING CONTRACT MODIFICATION #04
FOR THE PURAC PHASE III PROJECT**

MOTIONED BY: MAROTTA

SECONDED BY: KAPPOCK

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.18-061, the Authority has contracted with Rapid Pump & Meter Service Co., N.J. in the amount of \$11,862,950.00 for the Purac Phase III Project; and

WHEREAS, three previous contract modifications totaling \$31,191.05 were approved increasing the total contract price to \$11,894,414.05; 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 JACOBS, the project engineer at no additional cost to the Authority; and

WHEREAS, the Facilities Review Board has reviewed the proposal and recommends the approval of the requested contract modification.

NOW, THEREFORE, BE IT RESOLVED that the Authority hereby authorizes the execution and implementation of said contract modification # 04 in an amount not to exceed \$183,106.18.

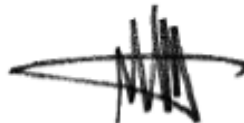
DATED: MAY 20, 2021

RECORD OF COMMISSIONERS' VOTE

RECORD OF COMMISSIONERS' VOTE

| | YES | NO | ABSENT |
|------------------------|------------|-----------|---------------|
| Commissioner Soares | x | | |
| Commissioner Kappock | x | | |
| Commissioner Marotta | x | | |
| Commissioner Gardiner | x | | |
| Commissioner Friedrich | x | | |
| Commissioner Guzman | x | | |
| Commissioner Velazquez | x | | |
| Commissioner Barrera | x | | |
| Commissioner White | x | | |

THIS IS TO CERTIFY THAT THIS RESOLUTION WAS DULY ADOPTED BY THE NORTH HUDSON BOARD OF COMMISSIONERS ON MAY 20, 2021.



SECRETARY

May 10, 2021

William P. Machotka, P.E.
Section Chief
State of New Jersey Department of Environmental Protection
Municipal Finance and Construction Element
P.O. Box 425
Trenton, NJ 08625-0425

Subject: North Hudson Sewerage Authority
Project No. S340952-30
PURAC System Improvements Phase 3 – Physical System Improvements
Contract Modification No. P-04

Dear Mr. Machotka:

We have found it necessary to issue the following Contract Modification to the PURAC System Improvements Phase 3 – Physical System Improvements Project:

No. P-04:

- Remove and Replace 6 Eductors
- Remove and Replace 23 6-Inch Butterfly Valves and Associated Actuators
- (Credit) Labor to Remove and Reinstall 23 6-Inch DeZurik Butterfly Valves and Associated Actuators (Approved under Modification No. P-03)

Total Amount of the Modification No. P-04: \$183,106.18

Attached are two (2) copies of the completed NJDEP “Contract Modification Proposal and Acceptance Form”, for the above-mentioned Contract Modification. The copies have been signed by the North Hudson Sewerage Authority (the Owner), Rapid Pump and Meter Service Co., Inc. (the Contractor) and signed and sealed by Jacobs (the Engineer). We would appreciate your review and approval of this modification.

Should you have any questions or require additional information, please call me at
862.242.7067

Sincerely,

CH2M HILL

A handwritten signature in black ink that reads "Shivani Patel". The signature is written in a cursive, flowing style.

Shivani Patel, P.E.
Project Manager

Cc: Fredric J. Pocci, P.E., NHSA
Steve Kulcsar, PE, Rapid Pump
Dejan Davidovic, Jacobs
Michael Curley, NJDEP
NJO File

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

| | | | |
|---|-------------------------------------|--|--|
| 1. ISSUING OFFICE North Hudson Sewerage Authority | 2. PROJECT NO. S340952-30 | 3. CONTRACT NO. PURAC System Upgrades Phase 3-Services During Construction | 4. MODIFICATION NO. Mod # P-04 |
| 5. TO (CONTRACTOR) Rapid Pump & Meter Service Co. Inc 285 Straight Street PO Box AY Paterson, NJ 07509 | | 6. PROJECT LOCATION AND DESCRIPTION Adams Street WWTP Hoboken, New Jersey | |
| 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 of a directive to proceed). | | | |
| _____ Shivani Patel, P.E./Project Manager | | | |
| _____ Date | _____ Type Name and Title | _____ Signature | |
| 8. DESCRIPTION OF CHANGE: <i>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:</i> | | | |
| See Attachment A | | | |

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

As a result of the above, the contract price and times are revised as follows:

| <u>ITEM NO.</u> | <u>ITEM DESCRIPTION</u> | <u>TOTAL COST</u> |
|-----------------|--|----------------------|
| 1 | Remove and Replace 6 Eductors** | \$158,304.15 |
| 2 | Remove and Replace 23 6-Inch Butterfly Valves and Associated Actuators** | \$74,207.42 |
| 3 | (Credit) Labor to Remove and Reinstall New 6" DeZurik Butterfly Valves (Approved under Modification No. P-03) | (\$49,405.39) |

TOTAL COST THIS MODIFICATION \$183,106.18

The contract time is hereby: *increased* *decreased* or *remaining the same* as a result of this modification.

** - Contract times for this item to be visited at a later time

The foregoing modification is hereby accepted:

| | | |
|-------------------------------------|---------------------------------|----------------------|
| _____ | _____ | _____ |
| Rapid Pump & Meter Service Co, Inc. | North Hudson Sewerage Authority | Jacobs |
| 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. S340952-30 | 11. CONTRACT NO. PURAC System Upgrades Phase 3 Services During Construction | 12. MODIFICATION NO. Mod # P-04 |
| 13. CONTRACTOR'S PROPOSAL – CHANGE IN CONTRACT PRICE (Detailed breakdown, attach additional sheets as necessary) | | | |
| (Proposed) See Attachment B | | | |
| By executing this Change Order No. P-04 for the PURAC System Upgrades Phase 3 Services During Construction Project the Contractor acknowledges that its terms provide full and final settlement of any and all claims against Owner arising from or relating to the changed work. Contractor hereby releases Owner from and waives all claims, demands, suits or actions, whether legal or equitable, known or unknown relating to the changed work including, without limitation, claims for damages arising from delays, suspensions, standby costs, home and field office overhead costs, lost profits, breach of contract, cardinal change or abandonment. | | | |
| NET INCREASE \$ <u>183,106.18</u> | | NET DECREASE \$ <u>0</u> | |
| | | CALENDER DAYS INCREASE <u>0</u> DAYS | |
| DATE: | TYPE NAME AND TITLE: | SIGNATURE: | |
| | | | |

CONTRACT MODIFICATION PROPOSAL AND ACCEPTANCE

| | | |
|---|---|--|
| 14. ISSUING OFFICE & PROJECT NO. North Hudson Sewerage Authority, S340952-04 | 15. CONTRACT NO. PURAC System Upgrades Phase 3 Services During Construction | 16. MODIFICATION NO. Mod # P-04 |
| 17. ORIGINAL CONTRACT BID PRICE.....\$ 11,862,950.00 TOTAL OF PREVIOUS CHANGE ORDERS.....\$ 31,191.05 TOTAL CONTRACT COST INCLUDING CHANGE.....\$ 12,077,247.23 | | |
| 18. NECESSITY FOR CHANGE AND REASON FOR OMISSION FROM PLANS AND SPECIFICATIONS: See Attachment C | | |
| 19. OTHER IMPACTS RESULTANT OF THIS CHANGE: An increase in contract time will be visited at a later date . | | |
| 20. RESUME OF NEGOTIATIONS OR RECOMMENDATIONS (Loanee's Representative): | | |
| DATE: | TYPE NAME AND TITLE OF LOANEE'S REPRESENTATIVE: | SIGNATURE: |

Attachment A

DESCRIPTION OF CHANGE

Issuing Office: North Hudson Sewerage Authority

Project Number: S340952-30

Modification No: P-04

Box No. 8: DESCRIPTION OF CHANGE

1. Remove and Replace 6 Eductors
 - a. Remove and replace six eductors (2 for each of the 3 saturation tanks) with a 6-inch in-line carbon steel eductor with a fixed type SL nozzle from Northeast Controls, Inc. Two existing eductors from saturation tank 1 and 1 existing eductor from saturation tank 3 will be turned over to the Owner. Change in contract time will be visited at a later time.

2. Remove and Replace 23 6-Inch Butterfly Valves and Associated Actuators
 - a. Remove and replace 23 6-inch butterfly valves and associated actuators (2 in each of the 10 filter cells and 3 on the air saturation tanks) that have a carbon steel body with a ductile iron body fully lined with nitrile rubber (NBR). Change in contract time will be visited at a later time.

3. (Credit) Labor to Remove and Reinstall 23 6-Inch DeZurik Butterfly Valves and Associated Actuators (Approved under Modification No. P-03)
 - a. Credit from Item No. 1 from Modification No. P-03

Attachment B

CONTRACTOR'S PROPOSAL – CHANGE IN CONTRACT PRICE

Issuing Office: North Hudson Sewerage Authority

Project Number: S340952-30

Modification No: P-04

Box No. 13: CONTRACTOR'S PROPOSAL – CHANGE IN CONTRACT PRICE

1. Remove and Replace 6 Eductors
 - a. Cost Proposal (RFQ-10) received from Rapid Pump via email on April 9, 2021.
2. Remove and Replace 23 6-Inch Butterfly Valves and Associated Actuators
 - a. Cost Proposal (RFQ-11) received from Rapid pump via email on May 5, 2021.
3. **(Credit)** Labor to Remove and Reinstall 23 6-Inch DeZurik Butterfly Valves and Associated Actuators (PCO-3)
 - a. Credit from Item No. 1 from Modification No. P-03 as this cost will no longer be needed



REQUEST FOR QUOTATION

QUOTATION NO: PURAC-RFQ-10

TO: Rapid Pump & Meter Service Co., Inc. DATE: 3/5/2021

FROM: Shivani Patel, PE

PROJECT: NHSA PURAC System Upgrades, Phase 3 - Loan S340952-30

KEYWORD DESCRIPTION: Eductors

DATE QUOTATION REQUIRED: 3/12/2021

The following modification to the contract has been identified. Pursuant to the General Conditions, please provide a quotation for the alteration as described in Item 1. The quotation should include an itemized breakdown of contractor and subcontractor costs, including labor, materials, rentals, approved services, overhead, and profit. This request shall not be considered authorization to proceed with the work herein described.

To be completed by Initiator of Request:

1. Scope of Work: (include list of attachments)

Remove and replace all six eductors with the 6-inch in-line carbon steel eductor with a fixed type SL nozzle from Northeast Controls, Inc. provided in the attachment. The two existing eductors from saturation tank 1 and 1 existing eductor from saturation tank 3 will be turned over to the owner.

2. Reason(s) for Modification: [] Owner [] Unforeseen Conditions(site, weather, etc) [X] Other

The existing eductors were not part of the original scope of the project however, they have been slowly degrading since construction of PURAC Phase 3 construction project began. It has been noticed that the floc in the cells has been going down which is attributed the degrading eductors. At this time it is required to replace this equipment.

3. Approval of Request:

Owner: _____ Date: _____

Engineer: Shivani Patel, PE Date: 3/5/2021

To be completed by Contractor:

4. Total cost of modification (attach detailed breakdown) \$ 158,304.¹⁵

5. Will a modification to the contract time be required? [X] Yes [] No

If so, trade(s) _____

No. of personnel _____

Duration 16 WEEKS (calendar days)

6. Attachment identification: (list) _____

7. Quotation is in effect until: (date) 5/14/21

8. Approval of Quotation [Signature]

Contractor STEVE KJLCSAR Date 4/9/21

Copy:

**Rapid Pump &
Meter Service
Co., Inc.**



April 9, 2021

Ms. Shivani Patel, P.E.
Jacobs
299 Madison Avenue
Morristown, NJ 07960

**Reference: PURAC System Upgrades, Phase 3, Contract 4
North Hudson Sewerage Authority
Proposed Change Order – New Eductors**

Dear Shivani,

As requested per the Jacobs Request for Quotation No. PURAC-RFQ-10 dated 3/5/21, attached please find a cost breakdown spreadsheet of the costs to be incurred for the removal and replacement all six (6) 6" carbon steel eductors with new units from Northeast Controls, Inc. for your review and approval.

The proposed eductors are AIS compliant with an overall lead time of 12-14 weeks (allowing for freight) after release to manufacture. The cost proposal is based upon removal and replacement of two (2) eductors per day over three (3) consecutive days. Overall, a total period of one (1) week will be required to perform the work after the units have been delivered to the site and the phased daytime shutdowns have been approved and scheduled by NHSA. Therefore, a time extension of sixteen (16) weeks from the date of release to manufacture (change order approval – written directive to proceed) should be provided to allow sufficient time to complete the change order work.

Please advise us with your approval so that a change order be issued to Rapid Pump for the time and costs as outlined herein. The total value of this proposed change order is \$158,304.15 with an overall time extension of sixteen (16) weeks from written authorization.

Please do not hesitate to contact me should you have any questions with regard to the above.

Regards,

A handwritten signature in black ink, appearing to be 'Steve Kulcsar'.

Steve Kulcsar
Director of Contracts
Rapid Pump & Meter Service Co., Inc.

NHTSA PURAC System
PCO Cost Breakdown
EDUCATOR REPLACEMENT

Description: PCO for Labor to remove and reinstall (6) 6" In-Line Educators

| | | | | | | |
|--|-------------------------------------|--------------|--------------|-------------|------------------|---------------|
| 1. Payroll Costs: | | <u>Trade</u> | <u>Hours</u> | <u>Rate</u> | | <u>Total</u> |
| | See page 2 of Proposal | | | | | \$ 11,021.54 |
| | | | | | | \$ - |
| | | | | | | \$ - |
| | | | | | | \$ - |
| | | | | | SUBTOTAL: | \$ 11,021.54 |
| 2. Material & Permanent Equipment: | | | Price | Qty. | | |
| | AIS Compliant Educators | | \$ 19,590.00 | 6 | | \$ 117,540.00 |
| | | | | | SUBTOTAL: | \$ 117,540.00 |
| 3. Subcontractor Work: | | | | | | \$ - |
| | | | | | | \$ - |
| | | | | | | \$ - |
| | | | | | SUBTOTAL: | \$ - |
| 4. Supplement Costs: | | | | | | |
| | Rigging Equipment | | \$ 110.00 | 3 | | \$ 330.00 |
| | Welding Supplies | | | | | \$ - |
| | | | | | | \$ - |
| | Freight Charges | | \$ 150.00 | 6 | | \$ 900.00 |
| | | | | | | \$ - |
| | | | | | | \$ - |
| | | | | | | \$ - |
| | | | | | | \$ - |
| | | | | | | \$ - |
| | | | | | | \$ - |
| | Bonds & Insurance Adjustment: | | | | SUBTOTAL: | \$ 1,230.00 |
| 5. Grand Total (Subtotal 1, Subtotal 2, Subtotal 4, Subtotal 5): | | | | | | \$ 129,791.54 |
| | <u>Contract Decrease</u> | | | | | |
| 6. Contractor Credit | | | | | | \$ - |
| | <u>Net Contract Increase</u> | | | | | |
| 7. Direct Work Sub-Total (Increase 5 + Decrease 6) | | | | | | \$ 129,791.54 |
| 8. Contractor's Overhead (10%): | | | | | | \$ 12,979.15 |
| Contractor's Profit (10%): | | | | | | \$ 14,277.07 |
| 9. Subcontractor Total (Item 3 Subtotal) | | | | | | \$ - |
| 10. Subcontractor Markup (5% of Item 10 total) | | | | | | \$ - |
| 11. Bond Premium (0.8% x Lines 8,9): | | | | | | \$ 1,256.38 |
| 12. TOTAL INCREASE: | | | | | | \$ 158,304.15 |

LABOR BREAKDOWN

Labor

| | <u>Men</u> | <u>Days</u> | <u>Hrs/Day</u> | <u>Total Hours</u> | <u>Rate</u> | <u>Amount</u> | <u>Total</u> |
|---|------------|-------------|----------------|--------------------|-------------|---------------|--------------|
| <u>PCO for Labor to remove and reinstall (6) 6" In-Line Eductors</u> | | | | | | | |
| <i>Initial Prep - Receive/Offload Eductors</i> | 2 | 2 | 8 | 32 | Laborer | \$ 70.16 | \$ 2,245.13 |
| <i>Move Eductors into PURAC Bldg. Stage Rigging Equipment</i> | 1 | 2 | 8 | 16 | Millwright | \$ 89.29 | \$ 1,428.72 |
| | | | | | | | |
| <i>Remove & Replace (6) Eductors</i> | 2 | 3 | 8 | 48 | Laborer | \$ 70.16 | \$ 3,367.69 |
| <i>Test Operation</i> | 1 | 3 | 8 | 24 | Millwright | \$ 89.29 | \$ 2,143.08 |
| | | | | | | | |
| <i>Final Cleanup/Demobilization</i> | 2 | 1 | 8 | 16 | Laborer | \$ 70.16 | \$ 1,122.56 |
| <i>Removal of all demo materials from site</i> | 1 | 1 | 8 | 8 | Millwright | \$ 89.29 | \$ 714.36 |

NOTE: All cell commissioning/de-commissioning, cell startup services and/or other activities required to operate Filter Cells shall be performed by NHSA Operations Staff. Eductor replacement to be performed during DAYTIME process interruptions (conducted by NHSA staff) over a period of (3) consecutive days (2 eductors/day)

TOTAL LABOR \$ 11,021.54



REQUEST FOR QUOTATION

QUOTATION NO: PURAC-RFQ-11

TO: Rapid Pump & Meter Service Co., Inc. DATE: 4/29/2021

FROM: Shivani Patel, PE

PROJECT: NHSA PURAC System Upgrades, Phase 3 - Loan S340952-30

KEYWORD DESCRIPTION: Replacement of 23 Butterfly Valves

DATE QUOTATION REQUIRED: 5/5/2021

The following modification to the contract has been identified. Pursuant to the General Conditions, please provide a quotation for the alteration as described in Item 1. The quotation should include an itemized breakdown of contractor and subcontractor costs, including labor, materials, rentals, approved services, overhead, and profit. This request shall not be considered authorization to proceed with the work herein described.

To be completed by Initiator of Request:

1. Scope of Work: (include list of attachments)

The scope of work will include the labor and equipment required for the removal of 2 – 6-inch DeZurik BHP Series butterfly valves in each of the 10 filter cells and 3 – 6-inch DeZurik BHP Series butterfly valves for the air saturation tanks for a total of 23 – 6-inch DeZurik BHP Series butterfly valves and their associated actuators and replacement for (furnish and installation) butterfly valves that meet the following specification requirement that are AIS Compliant and their testing.

- 2. Type V513 Butterfly Valve 2 Inches to 20 Inches:
 - a. Lug style, ductile iron body, Type 316 stainless steel disc, Type 316 or Type 18-8 stainless steel one-piece stem, Buna-N resilient seat bonded to valve body, heavy-duty self-lubricating sleeve type bushings, NBR stem seal, 150 psi working pressure rating, valve body to fit between ASME B16.1 Class 125/150 flanges.
 - b. Manufacturers and Products:
 - 1) DeZurik; Series BOS-US
 - 2) Bray Controls; Series 31.
 - 3) Tyco/Keystone; Model AR2.
 - 4) Crane/Centerline; Series 200.

The pneumatic actuators shall meet the requirements of Specification Section 15202 – Process Valves and Operators

2. Reason(s) for Modification: Owner Unforeseen Conditions(site, weather, etc) Other

The current valves are not operating as expected and are ‘sticking’ during operation, the current valve vendor has suggested these valves as better selection for the process environment

3. Approval of Request:

Owner: _____ Date: _____

Engineer: Shivani Patel, PE Date: 4/29/2021

To be completed by Contractor:

4. Total cost of modification (attach detailed breakdown) \$ 74,207.42

5. Will a modification to the contract time be required? Yes No

If so, trade(s) _____

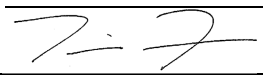
No. of personnel _____

Duration TBD (calendar days)

6. Attachment identification: (list) See attached breakdown

7. Quotation is in effect until: (date) _____

8. Approval of Quotation _____

Contractor  Date 5/5/21

Copy:

NHS A PURAC System
PCO Cost Breakdown
Replace Dezurik Recycle Valves with Bray Valves

Description: PCO for Labor to remove and replace 6" Dezurik Recycle Valves from (10) Filter Cells

| | | | | | | |
|--|--------------|--------------|-------------|-----------|------------------|--------------|
| 1. Payroll Costs: | | | | | | |
| See page 2 of Proposal | <u>Trade</u> | <u>Hours</u> | <u>Rate</u> | | <u>Total</u> | |
| | | | | \$ | 33,581.71 | |
| | | | | \$ | - | |
| | | | | \$ | - | |
| | | | | \$ | - | |
| | | | | | SUBTOTAL: | \$ 33,581.71 |
| | | | | | | |
| 2. Material & Permanent Equipment: | | | | | | |
| Bray Butterfly Valves | | | | \$ | 25,760.00 | |
| | | | | | SUBTOTAL: | \$ 25,760.00 |
| | | | | | | |
| 3. Subcontractor Work: | | Price | Qty. | | | |
| | | | | \$ | - | |
| | | | | \$ | - | |
| | | | | \$ | - | |
| | | | | \$ | - | |
| | | | | | SUBTOTAL: | \$ - |
| | | | | | | |
| 4. Supplement Costs: | | | | | | |
| Painting Equipment | | | | \$ | - | |
| Welding Supplies | | | | \$ | - | |
| Freight Charges | | \$ 1,500.00 | 1 | \$ | 1,500.00 | |
| | | | | \$ | - | |
| | | | | \$ | - | |
| | | | | \$ | - | |
| | | | | \$ | - | |
| | | | | \$ | - | |
| | | | | \$ | - | |
| Bonds & Insurance Adjustment: | | | | \$ | - | |
| | | | | | SUBTOTAL: | \$ 1,500.00 |
| | | | | | | |
| 5. Grand Total (Subtotal 1, Subtotal 2, Subtotal 4, Subtotal 5): | | | | \$ | 60,841.71 | |
| | | | | | | |
| <u>Contract Decrease</u> | | | | | | |
| 6. Contractor Credit | | | | \$ | - | |
| <u>Net Contract Increase</u> | | | | | | |
| 7. Direct Work Sub-Total (Increase 5 + Decrease 6) | | | | \$ | 60,841.71 | |
| 8. Contractor's Overhead (10%): | | | | \$ | 6,084.17 | |
| Contractor's Profit (10%): | | | | \$ | 6,692.59 | |
| 9. Subcontractor Total (Item 3 Subtotal) | | | | \$ | - | |
| 10. Subcontractor Markup (5% of Item 10 total) | | | | \$ | - | |
| 11. Bond Premium (0.8% x Lines 8,9): | | | | \$ | 588.95 | |
| 12. TOTAL INCREASE: | | | | \$ | 74,207.42 | |

| | | | |
|------------------|--|--------------------|---------------------------|
| Company | Rapid Pump & Meter Service Co., Inc. & Machinery Services - Paterson | Sales Rep | Todd Taylor |
| Name | Tim Foley | Email | todd.taylor@jtlynnefe.com |
| Email | tfoley@servicer.com | Phone | +1 917 670 2634 |
| Phone | +1 973 345-5600 | Prepared By | Todd Taylor |
| Quote Ref | North Hudson Sewerage Authority - AIS Compliant Butterfly Valves | Email | todd.taylor@jtlynnefe.com |
| | | Phone | +1 914 347 3911 |

| Line No | Product Details | Qty | Unit Price | Line Total | Delivery |
|-----------------------------|---|-----|------------|--------------------|----------|
| 1 | Part Number ASSEMBLY 6" S31/324 AIS compliant pneumatic actuated assembly Butterfly Valve assembly: -AIS Compliant 6" S31 butterfly valve, ductile Iron lugged body, 316 SS disc, 316 SS stem, EPDM seat. -S92 double acting actuator, fail in place. -S5A limit switch with 2 SPDT end switches -S63 120v Solenoid <i>Current lead time as of 3/31, 14 pieces are available to ship in three weeks. Remaining 9 pieces available to ship July.</i> | 23 | \$1,120.00 | \$25,760.00 | |
| 1.01 | Part Number 310600-11010324/A153 S31 6" DI,316,316,EPDM" AIS Compliant 6" S31 butterfly valve, ductile Iron lugged body, 316 SS disc, 316 SS stem, EPDM seat | 1 | | | |
| 1.02 | Part Number 920930-11300532 S92/93 PNEU ACT-19MM DD | 1 | | | |
| 1.03 | Part Number 050200-21202536 S05 2-6" DECLUTCHABLE GO W/HW" | 1 | | | |
| 1.04 | Part Number 0520C0-22600536 S05 20:1MTG KIT,5-6"/S90 83-92 | 1 | | | |
| 1.05 | Part Number 5A0000-126A2536 S5A STS MON, 2 MECH SW Series 5A switchbox with two SPDT switches. | 1 | | | |
| 1.06 | Part Number 5B0000-22601534 S5A/B/C 3PC BRACKET ASSY, IMP | 1 | | | |
| 1.07 | Part Number 63125A-214115P4 SOL VLV KIT, 110VAC,SGL,FL,IMP | 1 | | | |
| 1.08 | Part Number 551000-74603533 S55 FIL/REG,5 MICRON,1/4NPT Air filter regulator, 1/4" NPT connections | 1 | | | |
| Total Price: (USD) | | | | \$25,760.00 | |

Terms Notes

Shipping and applicable sales tax not included unless as specific line item

All deliveries subject to prior sales

Seller's acceptance of this Order is expressly limited to, and expressly conditional on, Buyer's

Acceptance of Seller's standard terms and conditions attached and available at

<https://www.bray.com/sales-terms-and-conditions>. Seller objects to any different or additional terms.

Attachment C

NECESSITY FOR CHANGE AND REASON FOR OMISSION FROM PLANS AND SPECIFICATIONS

Issuing Office: North Hudson Sewerage Authority

Project Number: S340952-30

Modification No: P-04

Box No. 18: NECESSITY FOR CHANGE AND REASON FOR OMISSION FROM PLANS AND SPECIFICATIONS

1. Remove and Replace 6 Eductors
 - a. The existing eductors were not part of the original scope of the project however, they have been slowly degrading since construction of PURAC Phase 3 construction project began. It has been noticed that the floc in the cells has been going down which is attributed to the degrading eductors. At this time it is required to replace this equipment.
2. Remove and Replace 23 6-Inch Butterfly Valves and Associated Actuators
 - a. The PURAC system contains 10 filter cells in total which among other appurtenances, contains 2 – 6-inch butterfly valves in each of the 10 filter cells and 3 – 6-inch butterfly valves for the air saturation tanks for a total of 23 – 6-inch butterfly valves. The 6-inch butterfly valves located on the filter recycle system must open/close during a backwash cycle. The specified valves that were installed as a part of this contract have become corroded and are failing to properly open/close when required. From the Engle Metallurgical analysis performed by the manufacturer it was apparent that the media in the fluid attacks the carbon steel BHP valve body, causing rust (iron oxide) buildup. The 23 valves need to be removed and replaced with a butterfly valve that has a ductile iron body and is fully lined with nitrile rubber (NBR) that the fluid passes through. The change in contract time will be visited at a later time.
3. (Credit) Labor to Remove and Reinstall 23 6-Inch DeZurik Butterfly Valves and Associated Actuators (Approved under Modification No. P-03)
 - a. Credit to the contract as Item No. 1 from Modification No. P-03 is no longer needed as the valves that were to be provided by the original manufacturer (DeZurik) at no cost to the Owner to replace the newly installed valves are not AIS compliant.