

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2024	2025	2026	2027	2028
Capital Expenditures	\$37,573	0	0	0	0
Operating Costs	0	0	0	0	0
External Revenues	0	0	0	0	0
Program Income (County)	0	0	0	0	0
In-Kind Match County	0	0	0	0	0
NET FISCAL IMPACT	<u>\$37,573</u>	0	0	0	0
# ADDITIONAL FTE POSITIONS (Cumulative)	0	0	0	0	0

Budget Account No.: Fund 4011 Dept 721 Unit W031 Object 6546

Is Item Included in Current Budget? Yes X No

Does this item include the use of federal funds? Yes No X

Does this item include the use of State funds? Yes No X

Reporting Category N/A

B. Recommended Sources of Funds/Summary of Fiscal Impact:

One (1) time expenditure from user fees, connection fees and balance brought forward

C. Department Fiscal Review: Joony Sohrman GE

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:

Lisa M. [Signature] 10/25/2023
OFMB QA 10/25
MD 10/25

[Signature] 10/31/23
Contract Development and Control
MD 10/30/23

B. Legal Sufficiency:

[Signature] 10/31/23
Assistant County Attorney

C. Other Department Review:

Department Director

This summary is not to be used as a basis for payment.

CHANGE ORDER NO. 1
Palm Beach County Water Utilities Department
Repump Station No. 8310 Upgrades and Improvements
Resolution No. R2022-0855 Contract Dated 08/23/2022

Project Title: Repump Station No. 8310 Upgrades and Improvements

PBCWUD Project No.: 18-064

Contractor: Cardinal Contractors, Inc.

Address: 580 Village Blvd, Suite 325, West Palm Beach, FL 33325

Budget Line Item No.: 4011 - 721 - W031 - 6546

District: 6

Notice to Proceed: February 6, 2023

The Contract provides for 23.47% SBE participation, which includes 20.41% MBE participation, 3.05% MBE (B). This Change Order includes 0.00% overall participation which includes, 0.00% MBE participation, 0.00% MBE (B). The cumulative SBE participation, including this Change Order is 23.47%, which includes 20.41% MBE participation, 3.05% MBE (B).

You are directed to make the following changes in this contract:

1. CP01: Additional time (266 days) for Controls procurement and controls revisions	\$25,761.01
2. CP03: Emergency Underground repair of 10" FM	<u>\$11,811.46</u>
	<u>\$37,572.47</u>

All Attachments to this Change Order are made a part of this Change Order and incorporated herein.

NOT VALID UNTIL SIGNED BY BOTH OWNER AND ENGINEER. SIGNATURE OF THE CONTRACTOR INDICATES THEIR AGREEMENT HEREWITH INCLUDING ANY ADJUSTMENT IN THE CONTRACT SUM OR CONTRACT TIME, AND NO ADDITIONAL COST OR TIME INDICATED HEREIN WILL BE RELATED TO THIS CHANGE

The Original Contract Sum was.....	<u>\$2,697,000.00</u>
Net Change by previous Change Order.....	<u>\$0.00</u>
The Contract Sum prior to this Change Order was.....	<u>\$2,697,000.00</u>
The Contract Sum will be increased by this Change Order.....	<u>\$37,572.47</u>
The New Contract Sum indicating this Change Order will be.....	<u>\$2,734,572.47</u>
The Date of Substantial Completion prior to this Change Order was	<u>11/03/2023</u>
The Date of Final Completion prior to this Change Order was	<u>12/03/2023</u>
The Contract Time will be increased.....	<u>266 Days</u>
The Date of Substantial Completion including this Change Order.....	<u>07/25/2024</u>
The Date of Final Completion including this Change Order.....	<u>08/24/2024</u>

CHANGE ORDER NO. 1
Palm Beach County Water Utilities Department
Repump Station No. 8310 Upgrades and Improvements
Resolution No. R2022-0855 Contract Dated 08/23/2022

Execution of this change order acknowledges final settlement of, and releases, all claims for costs and time associated, directly or indirectly, with the above stated modification(s), including all claims for cumulative delays or disruptions resulting from, caused by, or incident to such modification(s), and including any claim that the above stated modification(s) constitutes, in whole or part, a cardinal change to the contract.

Cardinal Contractors, Inc.
CONTRACTOR
580 Village Blvd, Suite 325,
West Palm Beach, FL 33325

ADDRESS

SIGNATURE

Michael Brandao
PRINT NAME

Vice President
TITLE

September 20, 2023
DATE

Baxter & Woodman, Inc
ENGINEER
1601 Forum Place Suite 400
West Palm Beach, FL 33401

ADDRESS

SIGNATURE

Richard Chipman, CGC
PRINT NAME

Construction Manager
TITLE

9/26/23
DATE

Palm Beach County
Board of County Commissioners
OWNER
301 N. Olive Avenue
West Palm Beach, FL 33401

ADDRESS

SIGNATURE


Mayor
PRINT NAME

TITLE

DATE

STATE OF FLORIDA
COUNTY OF Palm Beach

The foregoing instrument was acknowledged before me by means of physical presence or online notarization this 20 day of September, 2023 by Michael Brandao who is personally known to me or has produced _____ as identification.

[Signature]
(Signature of Notary Public - State of Florida)

Diana Carolina Mira
Comm. #HH095664
Expires: Feb. 27, 2025
Banded thru Aaron Notary

Approved as to Form and Legal Sufficiency

By: [Signature]
County Attorney

Attest: Joseph Abruzzo, Clerk of the Circuit Court & Comptroller, Palm Beach County

By: _____
Deputy Clerk

October 19, 2023
Via Email Only

Palm Beach County Water Utilities Department
8100 Forest Hill Boulevard
West Palm Beach, FL 33413

**Subject: *Signature Authority for Construction Managers
Baxter & Woodman, Inc.***

To Whom it May Concern,

Please accept this letter as confirmation that Richard Chipman, as a Construction Manager employed by Baxter & Woodman, Inc., is authorized on behalf of Baxter & Woodman to make recommendations to the County as to whether the contractor's submittals are reasonable and justified. In addition, Mr. Chipman is also authorized to sign contractor change orders, pay applications and the like on behalf of the company.

Please contact me if you have any questions.

Sincerely,

Baxter and Woodman, Inc.



Rebecca Travis, P.E.
Executive Vice President /Florida Division Manager

Ec: Dennis Dabros – Baxter & Woodman, Inc.
Cc: P:\PALMC\General\General WUD\2023-10-29 Chipman Signature Authority

CHANGE ORDER NO. 1
Palm Beach County Water Utilities Department
Repump Station No. 8310 Upgrades and Improvements
Resolution No. R2022-0855 Contract Dated 08/23/2022

LIST OF ATTACHMENTS

ATTACHMENT A	Change Order Summary and Categorization
ATTACHMENT B	Change Order Additions/Deletions Summary
ATTACHMENT C	OEBO Schedule 1 and Schedule 2
ATTACHMENT D	Location Map
ATTACHMENT E	Surety Rider
ATTACHMENT F	Supporting Documentation

Revised 12/20/2022

ATTACHMENT A

CHANGE ORDER SUMMARY AND CATEGORIZATION

Revised 12/20/2022

ATTACHMENT A

CHANGE ORDER NO. 1 SUMMARY AND CATEGORIZATION

Project Title: Repump Station No. 8310 Upgrades and Improvements

PBCWUD Project No.: 18-064

Resolution No.: R2022-0855

Item No.	C.O. Code	Scope of Work	Additions	(Deletions)	Net Change	Time
1	1	Increase the contract duration an additional 266 calendar days due to impacts related to procurement of Instrumentation and Controls systems and scope modifications including the addition of Programmable Logic Controller (PLC) cards and material for Variable Frequency Drive (VFD) hardwire controls. Notice to Proceed (NTP) was issued with the understanding that there would be a request for time extension based on procurement times of critical equipment such as the Instrumentation and Control systems.	\$ 25,761.01	\$0.00	\$ 25,761.01	266
2	1	Emergency repair of leak found in the underground discharge pump piping.	\$ 11,811.46	\$0.00	\$ 11,811.46	0
		Total	\$ 37,572.47	\$0.00	\$ 37,572.47	266


CHANGE ORDER CATEGORIZATION CODE

- 1) OWNER INITIATED
- 2) DIFFERING SITE CONDITIONS
- 3) ZONING/CODE/ORDINANCE CHANGES (REQUIREMENTS)
- 4) ERRORS/OMISSIONS IN DESIGN
- 5) QUANTITY OVERRUNS/UNDERRUNS
- 6) REQUEST BY ANOTHER AGENCY/OUTSIDE PARTY REIMBURSABLE
- 7) REQUEST BY ANOTHER AGENCY/OUTSIDE PARTY NON-REIMBURSABLE
- 8) OTHER [PROVIDE JUSTIFICATION VIA MEMO OR SCOPE OF WORK] _____

**INTER-OFFICE COMMUNICATION
PALM BEACH COUNTY
WATER UTILITIES DEPARTMENT**

DATE: October 19, 2023

TO: File

FROM: Deavon Uter, P.E. 
Construction Project Manager

RE: Change Order No. 1; Repump Station No. 8310 Upgrades and Improvements

FILE: WUD Project No. 18-068

Change Order No. 1 to Cardinal Contractors, Inc. for time extension to the contract of an additional 266 calendar days. This is due to the more than anticipated lead time for the procurement of the Instrumentation and Controls systems. Notice to Proceed (NTP) was issued with the understanding that there would be a request for time extension based on procurement times for critical components. The long lead time has caused the project schedule to move from being on schedule to 266 calendar days, behind schedule.

PBCWUD issued updates to Instrumentation and Controls plans and specifications which resulted in the need for the addition of Programmable Logic Controller (PLC) cards and material for Variable Frequency Drive (VFD) hardwire controls and electrical upgrades by the contractor. These changes including material and labor are outlined in Change Proposal No. 1.

During the construction of the foundation pads for the generator and odophos tank an existing 10" pipe joint came loose. The joint was later discovered to be poorly constructed with the incorrect joint restraint resulting in the pipe coming loose. It was determined that the Contractor was not at fault for the accident, this is outlined in Change Proposal No. 3.

cc: File

ATTACHMENT B

CHANGE ORDER ADDITIONS/DELETIONS SUMMARY

Revised 12/20/2022

ATTACHMENT B
CHANGE ORDER ADDITIONS/DELETIONS SUMMARY

Project Title: Repump Station No. 8310 Upgrades and Improvements
 Contractor: Cardinal Contractors, Inc.
 PBCWUD Project No.: 18-064
 Resolution No.: R2022-0855
 Date Approved: 08/23/2022
 Contract Amount: \$2,297,000.00

APPROVAL LIMITS:

<u>Department Head</u>	<u>Contract Review Committee</u>
<u>Amount/Days</u>	<u>Amount/Days</u>
<u>Individual C.O.</u> \$50,000.00 - 30 Days	\$100,000.00 - 90 Days
<u>Cumulative C.O.</u> \$250,000.00 ¹ - 30 Days	\$250,000.00 ¹ - 120 Days

C.O. NO.	DATE APPROVED	NET CHANGE ²	DEPARTMENT HEAD (ADDS PLUS DEDUCTS) ³		CONTRACT REVIEW COMMITTEE (ADDS PLUS DEDUCTS) ³		TOTAL DEPT. HEAD & CONTRACT REVIEW COMM. (ADDS PLUS DEDUCTS) ³		BOARD OF COUNTY COMMISSIONERS (ADDS PLUS DEDUCTS) ³		TOTALS
			AMOUNT	DAYS	AMOUNT	DAYS	AMOUNT	DAYS	AMOUNT	DAYS	
1.	Pending	\$37,572.47	\$0.00	0	\$0.00	0	\$0.00	0	\$37,572.47	266	\$37,572.47
		\$37,572.47	\$0.00	0	\$0.00	0	\$0.00	0	\$37,572.47	266	\$37,572.47

NOTES:

1. Per PPM #CW-F-050, upon approval of the C.O. in the cumulative amount of \$250,000.00 or 5% of Contract Amount (> \$5 million), Receive and File must be submitted to the Board of County Commissioners to reset the dollar amount.
2. Net Change reflects the net amount of additions plus deductions.
3. Adds plus Deducts reflects the absolute value of unrelated changes for use in determining the approval authority for the Change Order.

ATTACHMENT C
OEBO SCHEDULE 1

OFFICE OF EQUAL BUSINESS OPPORTUNITY COMPLIANCE PROGRAMS

OEBO SCHEDULE 1

Repump Station No. 8310 Upgrades and Improvements

SOLICITATION/PROJECT/BID NAME: _____

SOLICITATION/PROJECT/BID NO.: 18-064

August 11, 2021

Palm Beach County Water Utilities Department

SOLICITATION OPENING/SUBMITTAL DATE: _____

COUNTY DEPARTMENT: _____

Section A PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT* ON THE PROJECT:

NAME OF PRIME RESPONDENT/BIDDER: Cardinal Contractors, Inc.

ADDRESS: 580 Village Blvd., Suite 325, West Palm Beach, FL. 33409

CONTACT PERSON: Diana Mira

PHONE NO.: 954-625-4154

E-MAIL: dmira@prim.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$37,572.47

*SMWBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.

Non-SBE MBE WBE SBE

Section B PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT BELOW:

Subcontractor/Sub consultant Name	(Check all Applicable Categories)				DOLLAR AMOUNT OR PERCENTAGE OF WORK					
	Non-SBE	MBE Minority Business	WBE Women Business	SBE Small Business	Black	Hispanic	Women	Caucasian	Asian	Other
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____

(Please use additional sheets if necessary)

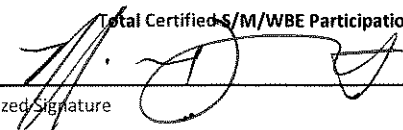
Total _____

Total Bid/Offer Price \$ 37,572.47

Total Certified S/M/WBE Participation \$ 0.00

I hereby certify that the above information is accurate to the best of my knowledge: Michael Brandao

Name & Authorized Signature



Vice President

Title

- Note:**
- The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
 - Only those firms certified by Palm Beach County at the time of solicitation due date are eligible to meet the established OEBO Affirmative Procurement Initiative (API). Please check the applicable box and list the dollar amount or percentage under the appropriate demographic category.
 - Modification of this form is not permitted and will be rejected upon submittal.

**ATTACHMENT C
OEBO SCHEDULE 2
(Not Applicable)**

OFFICE OF EQUAL BUSINESS OPPORTUNITY COMPLIANCE PROGRAMS

Revised 12/20/2022

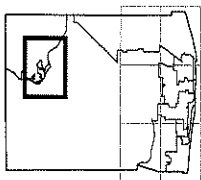
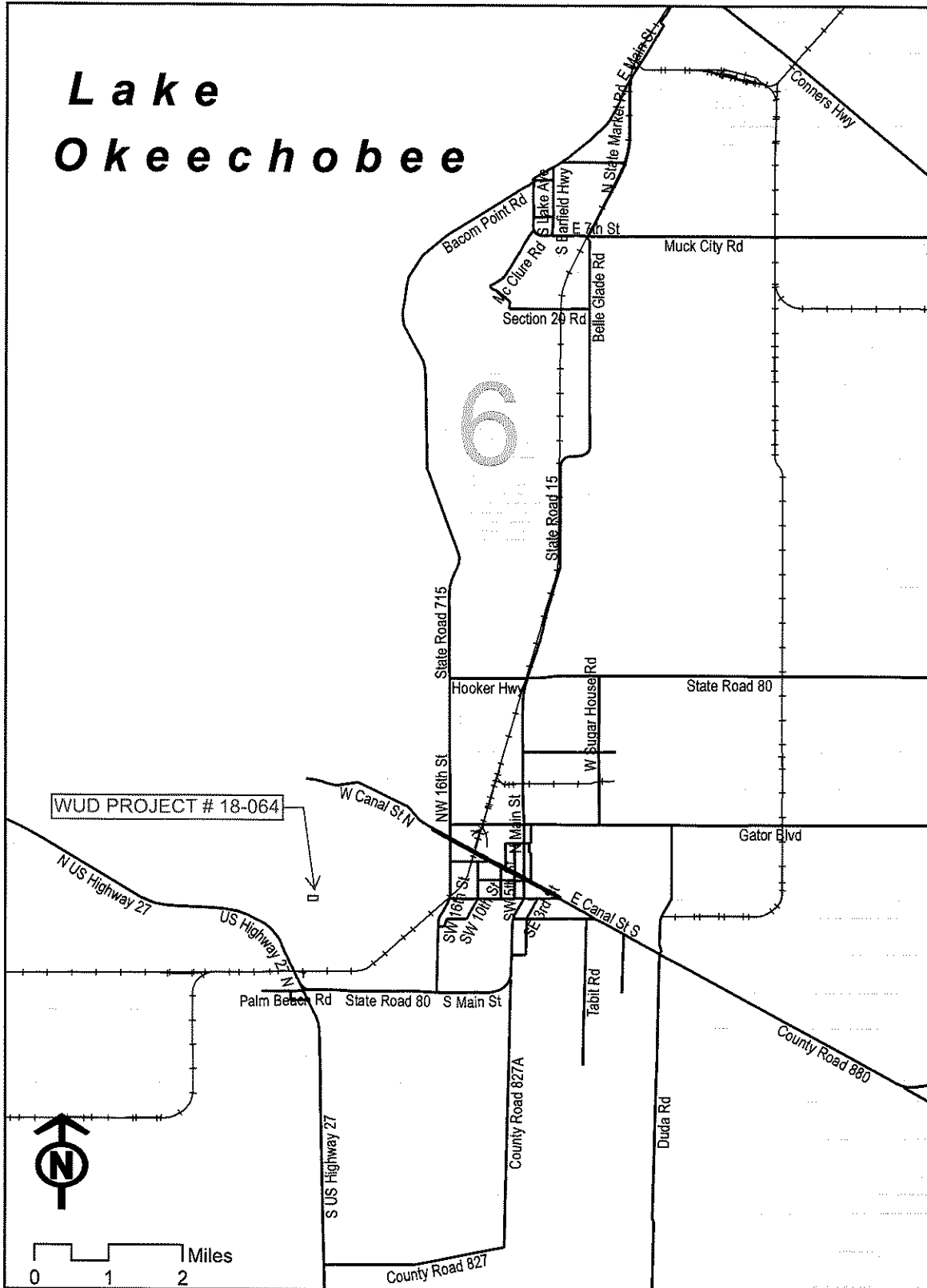
ATTACHMENT D

LOCATION MAP

PBCWUD Project No. 18-064

Revised 12/20/2022

ATTACHMENT D
LOCATION MAP
REPUMP STATION NO. 8310
UPGRADES AND IMPROVEMENTS
PBCWUD PROJECT NO. 18-064



Location Sketch

ATTACHMENT E

SURETY RIDER

Revised 12/20/2022

Increase/Decrease Rider

RIDER to be attached to and form a part of Bond Nos. FIC: K41558301 AND CIC: 30152398 wherein FEDERAL INSURANCE COMPANY AND THE CONTINENTAL INSURANCE COMPANY is named as Surety(s), on behalf of Cardinal Contractors, Inc. as Principal, in favor of Palm Beach County, as Obligee, in the sum of Two Million Six Hundred Ninety-Seven Thousand and No/100 (\$2,697,000.00) dated August 23, 2022, for Repump Station No. 8310 Upgrades and Improvements WUD Project No.: 18-064R

IT IS HEREBY UNDERSTOOD AND AGREED that effective the 20th day of September, 2023 the penalty of this bond is Increased

from Two Million Six Hundred Ninety-Seven Thousand and No/100 (\$2,697,000.00)

to Two Million Seven Hundred Thirty-Four Thousand Five Hundred Seventy Two and 47/100 (\$2,734,572.47)

AND

The contract duration has been extended by 266 days.

Provided, however, that the liability of the Principal and Surety(s) hereon shall not be cumulative or in any event exceed the revised bond amount referred to herein.

The attached bond shall be subject to all its agreements, limitations and conditions except as herein expressly modified. Signed, sealed and dated this 22nd day of September, 2023.

If bond amount is being DECREASED sign below & return a copy with original signature to the Surety:
ACCEPTED:

By _____
(Signature of Obligee)
Name:
Title:

Cardinal Contractors, Inc.

By: [Signature]
Name: MICHAEL BRANDAD
Title: VICE PRESIDENT

Federal Insurance Company AND The Continental Insurance Company

By: [Signature]
Name: Richard Covington
Title: Attorney-in-Fact
FL Non-Resident License # W501312

CHUBB®

Power of Attorney

Federal Insurance Company | Vigilant Insurance Company | Pacific Indemnity Company

Westchester Fire Insurance Company | ACE American Insurance Company

Know All by These Presents, that FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY corporations of the Commonwealth of Pennsylvania, do each hereby constitute and appoint Joseph R. Aulbert, Marc W. Boots, Ashley Coleman, Richard Covington, Stephanie Moore Harold, Ashley Koletar, Vickie Lacy, Heather Noles, Ryan Varela, Dylan Young and Maria D. Zuniga of Houston, Texas; Susan Golla of San Antonio, Texas -----

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY have each executed and attested these presents and affixed their corporate seals on this 18th day of August, 2023.

Dawn M. Chloros

Dawn M. Chloros, Assistant Secretary

Stephen M. Haney

Stephen M. Haney, Vice President



STATE OF NEW JERSEY

County of Hunterdon

SS.

On this 18th day of August, 2023 before me, a Notary Public of New Jersey, personally came Dawn M. Chloros and Stephen M. Haney, to me known to be Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros and Stephen M. Haney, being by me duly sworn, severally and each for herself and himself did depose and say that they are Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY and know the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of said Companies; and that their signatures as such officers were duly affixed and subscribed by like authority.

Notarial Seal



Albert Contursi
NOTARY PUBLIC OF NEW JERSEY
No 50202369
Commission Expires August 22, 2027

Albert Contursi
Notary Public

CERTIFICATION

Resolutions adopted by the Boards of Directors of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY on August 30, 2016; WESTCHESTER FIRE INSURANCE COMPANY on December 11, 2006; and ACE AMERICAN INSURANCE COMPANY on March 20, 2009:

"RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company entered into in the ordinary course of business (each a "Written Commitment"):

- (1) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.
- (2) Each duly appointed attorney-in-fact of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such person's written appointment as such attorney-in-fact.
- (3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorney-in-fact of the Company with full power and authority to execute, for and on behalf of the Company, under the seal of the Company or otherwise, such Written Commitments of the Company as may be specified in such written appointment, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (4) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to delegate in writing to any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in such written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, may be affixed by facsimile on such Written Commitment or written appointment or delegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested."

I, Dawn M. Chloros, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY (the "Companies") do hereby certify that

- (i) the foregoing Resolutions adopted by the Board of Directors of the Companies are true, correct and in full force and effect,
- (ii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Whitehouse Station, NJ, this 22nd day of September, 2023



Dawn M. Chloros

Dawn M. Chloros, Assistant Secretary

IN THE EVENT YOU WISH TO VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT:

Telephone (908) 903- 3493 Fax (908) 903- 3656 e-mail: surety@chubb.com

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That The Continental Insurance Company, a Pennsylvania insurance company, is a duly organized and existing insurance company having its principal office in the City of Chicago, and State of Illinois, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Marc W Boots, Vickie Lacy, Richard Covington, Maria D Zuniga, Heather Noles, Joseph R Aulbert, Ashley Koletar, Ryan Varela, Individually

of Houston, TX, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the insurance company and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions, printed on the reverse hereof, duly adopted, as indicated, by the Board of Directors of the insurance company.

In Witness Whereof, The Continental Insurance Company has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 1st day of November, 2022.



The Continental Insurance Company

Paul T. Bruflat

Paul T. Bruflat Vice President

State of South Dakota, County of Minnehaha, ss:

On this 1st day of November, 2022, before me personally came Paul T. Bruflat to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of The Continental Insurance Company, a Pennsylvania insurance company, described in and which executed the above instrument; that he knows the seal of said insurance company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said insurance company and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said insurance company.



My Commission Expires March 2, 2026

M. Bent

M. Bent Notary Public

CERTIFICATE

I, D. Johnson, Assistant Secretary of The Continental Insurance Company, a Pennsylvania insurance company, do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the By-Law and Resolution of the Board of Directors of the insurance company printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said insurance company this 22nd day of September, 2023.



The Continental Insurance Company

D. Johnson

D. Johnson Assistant Secretary

Form F6850-4/2012

Go to www.cnasurety.com > Owner / Obligee Services > Validate Bond Coverage, if you want to verify bond authenticity.

ATTACHMENT F

SUPPORTING DOCUMENTATION

Revised 12/20/2022



Cardinal Contractors, Inc.
 13794 NW 4th St, Suite 200
 Sunrise, FL 33325
 p: 954.587.0520 f: 954.587.6653

September 12, 2023

Richard M. Chipman, CGC
 Baxter & Woodman Consulting Engineers (B&W)
 1601 Forum Place, Suite 400
 West Palm Beach, FL 33401

RE: **WUD 18-064R/ Cardinal Job No. 85031**
Repump Station No. 8310 Upgrades and Improvements
CP4: Time Extension Request

Dear Mr. Chipman:

This letter is to request a time extension of 266 calendar days added to the project schedule due to impacts related to procurement and scope modifications, for a substantial completion date of July 25, 2024, and final completion date of August 25, 2024.

Background information

Bid opening was on August 11, 2021, Notification of Award was received and accepted between January and February 2022, and the Notice to Proceed (NTP) was issued on February 6, 2023.

Because of the gap between these dates and various market and procurement challenges, it was necessary and agreed between all parties, to take action on different items as possible before the NTP date, such as subcontract negotiations with Primoris' vendors, preparation and review of submittals, and release of new equipment and materials.

Below is the list of submittals issued before the NTP.

26 09 23-001A	26 09 23	X	Lightning Control Devices	Durham Electric Inc	5.11.22	5.11.22	5.18.22	5.18.22
26 24 16-001A	26 24 16	X	Panelboards	Durham Electric Inc	5.11.22	5.11.22	5.18.22	5.18.22
26 28 16-001A	26 28 16	X	Safety Switches	Durham Electric Inc	5.11.22	5.11.22	5.18.22	5.18.22
43 20 00-01A (43 23 05-01A)	43 23 05	X	Suction Pumps	Barneys Pumps	5.11.22	5.11.22	5.19.22	5.19.22
26 00 00-001A	26 00 00	X	Light fixtures	Durham Electric Inc	5.19.22	5.19.22	5.23.22	5.23.22
26 36 23-001A	26 36 23	X	Automatic Transfer Switches	Durham Electric Inc	5.27.22	5.27.22	6.17.22	6.17.22
01 35 29 - 01A	01 35 29	X	Betancourt Safety Plan	Betancourt Construction, Inc.	10.28.22	10.28.22		
09 96 00 - 01A	09 96 00	X	Protective Coatings	Southland Painting Corp.	9.7.22	9.7.22	10.9.22	10.9.22
09 96 00 - 01B	09 96 00	X	Protective Coatings	Southland Painting Corp.	10.3.22	10.3.22	10.17.22	10.17.22
43 20 00 - 02A	43 20 00	X	Barneys Submittals	Barneys Pumps	10.21.22	10.21.22	10.26.22	10.26.22
01 14 13 - 01A	01 14 13	X	Access to site, General Contract	Betancourt Construction, Inc.	01.25.23	2.9.23		
01 14 13 - 01A	01 14 13	X	Access to site, Riggers and Signalers	Betancourt Construction, Inc.	01.25.23	2.9.23		
01 35 29 - 01A	01 35 29	X	Safety Plans	Betancourt Construction, Inc.	10.28.22	10.28.22		
14 60 00 - 01A	14 60 00	X	Crane and Hoists	Advanced Overhead Systems	1.31.23	2.9.23	2.23.23	2.23.23
26 28 16 - 01A	26 28 16	X	Safety Switches	Durham Electric Inc	5.11.22	5.11.22	5.19.22	5.19.22
31 62 16.13 - 01A	31 62 16.13	X	Steel Sheet Piles	Betancourt Construction, Inc.	12.9.22	12.16.22	12.21.22	12.21.22
40 05 00 - 01A	40 05 00	X	Flange Accessory Sets	McDade Waterworks	01.25.23	01.27.23	2.3.23	2.3.23
40 05 00 - 02A	41 05 00	X	Service Saddle	McDade Waterworks	01.25.23	01.27.23	2.3.23	2.3.23
40 05 00 - 03A	42 05 00	X	Hose Bilo	McDade Waterworks	01.25.23	01.27.23	2.3.23	2.3.23
40 05 00 - 04A	43 05 00	X	DR-18 Pipe	McDade Waterworks	01.25.23	01.27.23	2.3.23	2.3.23
40 05 00 - 05A	44 05 00	X	Camlocks	McDade Waterworks	01.25.23	01.27.23	2.3.23	2.3.23
40 05 00 - 06A	45 05 00	X	Flanged Fittings	McDade Waterworks	01.25.23	01.27.23	2.3.23	2.3.23
40 05 00 - 07A	46 05 00	X	Backflow Preventor	McDade Waterworks	01.25.23	01.27.23	2.3.23	2.3.23
40 05 07 - 01A	40 05 07	X	Pipe Supports	McDade Waterworks	01.25.23	01.27.23	2.3.23	2.3.23
40 05 19 - 01A	40 05 19	X	Flanged Pipe	McDade Waterworks	01.25.23	01.27.23	2.3.23	2.3.23
40 05 19 - 01B	40 05 19	X	Flanged Pipe	McDade Waterworks	2.24.23	2.24.23	3.4.23	3.6.23
40 05 19 - 02A	40 05 19	X	DI Mechanical Joint Fittings	McDade Waterworks	01.25.23	01.27.23	2.3.23	2.3.23
40 05 30.13 - 01A	40 05 30.13	X	PVC Process Pressure Pipe	McDade Waterworks	01.25.23	01.27.23	2.3.23	2.3.23
40 90 00 - 01A	40 90 00	X	Barneys System Integrator	Barneys Pumps	11.14.22	11.15.22	11.23.22	11.23.22
43 20 00 - 01A	43 20 00	X	Barneys Suction Pumps	Barneys Pumps	4.29.22	5.11.22	5.19.22	5.19.22
43 20 00 - 02A	43 20 00	X	Barneys Pumps	Barneys Pumps	10.21.22	10.21.22	11.22.22	11.22.22
43 20 00 - 02B	43 20 00	X	Barneys Pumps	Barneys Pumps	1.11.23	1.26.23	2.3.23	2.3.23
43 30 00 - 01A	43 30 00	X	Valve Position Indicator	McDade Waterworks	1.25.23	1.27.23	2.3.23	2.3.23
43 30 18 - 01A	43 30 18	X	Ball Valves	McDade Waterworks	1.25.23	1.27.23	2.3.23	2.3.23
43 20 24 - 01A	43 30 24	X	GA Plug Valves	McDade Waterworks	1.25.23	1.27.23	2.3.23	2.3.23
43 30 52 - 01A	43 30 52	X	Brass Valve Tag	McDade Waterworks	1.25.23	1.27.23	2.3.23	2.3.23
43 30 52 - 02A	43 30 52	X	Sigma Valve Box	McDade Waterworks	1.25.23	1.27.23	2.3.23	2.3.23

Once the submittals were approved, we proceeded to release all items for manufacturing, and for example, by releasing the electrical items well before the NTP, the considerable long lead times for the electrical items became a non-issue, and most items have been delivered or are expected to arrive before the scheduled installation.

Primoris attempted to do the same with the Pump Skid, Variable Frequency Drives (VFDs) and Instrumentation and Controls (I&C) package, however, those items carried other challenges, specifically the I&C items, as detailed below.

Procurement

On January 23, 2023, during Pre-Construction Meeting, Palm Beach County received our notice of specific delays associated with procurement of the VFDs with an anticipated lead time of 30 weeks after submittal approval and the I&C with an anticipated lead time of 30 weeks after submittal approval, directly impacting the critical path of the project.

During preparation of the submittal package for the I&C equipment, Primoris received a request from PBCWUD for I&C scope modifications which incurred in additional time for the vendor to prepare and submit their final submittal package.

Both the VFDs and I&C packages have been approved as of February 3, 2023 (before NTP) and June 13, 2023, respectively. The lead time durations for both items have been increased as per latest correspondence with the vendors, resulting in current anticipated delivery dates of mid-November 2023 for the VFDs and mid-February 2024 for the I&C.

The scope of work for this project that is tied to the installation of the new I&C equipment requires the installation of a temporary bypass system to continue operations of the repump station while allowing the demolition of the existing slab and pump skid, replacement of the pump skid, installation of new VFDS, new pump slab, new roof structure, new underground and above piping, and all associated activities. Construction duration for all of these activities is of 90 calendar days, followed by restoration and other activities such as: installation of coatings, retaining wall, handrail, fence, sodding, final grading and asphalt restoration which are scheduled to be completed within 72 calendar days.

Based on the current lead times, the current project schedule shows a gap in the work between completion of installation of the bypass pump slab in September 2023, through February 2024, subject to receiving the pump skid, VFDs and I&C items by February 14, 2024.

The proposed gap in the work also represents a relevant challenge for Primoris as the Prime Contractor, as we have to continue to hold off on releasing items for manufacturing or hold off on deliveries on already manufactured equipment, incurring in price escalations and/or storage fees, which we are not passing on to PBCWUD.

Primoris remains committed to continuing coordination with our vendors and their suppliers to improve lead times as much as possible, as well as to review potential options to adjust our work for the benefit of the project schedule. We shall keep you posted on any opportunity to reduce the current anticipated gap in the work. However, please note that once we have properly completed our procurement process with our vendors, any delays with manufacturing and deliveries on their part are out of our control.

Primoris respectfully requests a time extension of 266 calendar days added to the contract schedule to cover current time impacts related to the I&C procurement.

We remain at your disposal for further discussion or if more information is needed.

Thank you,

Primoris Water & Mechanical
Division of Cardinal Contractors, Inc.

Diana Mira

Project Manager
Primoris Water & Mechanical
Division of Cardinal Contractors, Inc.
13794 NW 4th St, Suite 200
Sunrise, FL 33325
w: 941.377.8555 +4733
c: 954.625.4154
e: dmira@prim.com

Attachments

1. Correspondence with CC Control
2. Cost Proposal 1-R3 – I&C Scope Modifications
3. Latest Project Schedule

cc: Deavon Utter / PBCWUD
Duane Palumbo / PBCWUD
Kevin Kowalkowski / Primoris

From: [Edwin Feliciano](#)
To: [Diana Mira Rincon](#)
Cc: [Juan Reyes](#); [Jeffrey Needs](#); [Matt Skidmore](#); [Kevin Kowalkowski](#); [CC Control Corp](#); [Jesus Collazo](#)
Subject: RE: Submittal - 40 90 00 - 01C Instrumentation & Controls
Date: Thursday, June 29, 2023 4:15:23 PM
Attachments: [Lead-Times-Rockwell-Automation June 21.pdf](#)

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you have verified the sender and know the content is safe! If this message is suspicious, please use the **Report Phish** button to notify IT.

Diana and Kevin,

Please find attached document from Rexel with current lead times on PLC parts. I have Highlighted some of the long lead items that are part of this project. The longest lead item is at 216 days. However, we will continue to do our best in working with our suppliers to try an improve on this.

Edwin Feliciano
Project Coordinator
C.C. Control Corp.
5760 Corporate Way
West Palm Beach, Florida 33407
Main: 561.293.3975
Cell: 561-917-0147
Direct: 561-293-3975 x115
Fax: 561.293.3976



From: Diana Mira Rincon <dmira@prim.com>
Sent: Wednesday, June 21, 2023 9:03 AM
To: Edwin Feliciano <efeliciano@cccontrolcorp.com>
Cc: Juan Reyes <jreyes@cccontrolcorp.com>; Jeffrey Needs <JNeeds@cccontrolcorp.com>; Matt Skidmore <MSKIDMORE@cccontrolcorp.com>; Kevin Kowalkowski <kkowalkowski@prim.com>; CC Control Corp <info@cccontrolcorp.com>; Jesus Collazo <jcollazo@cccontrolcorp.com>
Subject: RE: Submittal - 40 90 00 - 01C Instrumentation & Controls

Good Morning Edwin,

As per our conversation, please provide ETA for this equipment. Its driving our schedule and need to submit a time extension request based on this.

Thanks,

Diana Mira
Primoris Water & Mechanical

Division of Cardinal Contractors, Inc.

M: 954 625 4154

E: DMira@prim.com

From: Kevin Kowalkowski <kkowalkowski@prim.com>

Sent: Tuesday, June 13, 2023 1:57 PM

To: CC Control Corp <info@cccontrolcorp.com>; Jesus Collazo <jcollazo@cccontrolcorp.com>

Cc: Diana Mira Rincon <dmira@prim.com>; Juan Reyes <jreyes@cccontrolcorp.com>; Jeffrey Needs <JNeeds@cccontrolcorp.com>; Matt Skidmore <MSKIDMORE@cccontrolcorp.com>

Subject: RE: Submittal - 40 90 00 - 01C Instrumentation & Controls

Good afternoon,

Please see link below for response for submittal 40 90 00 – 01C.

Thank you,

I'm using Adobe Acrobat.

You can view and comment on "40 90 00 - 01C FAC-Instruments & Controls.pdf" at:

<https://acrobat.adobe.com/link/review?uri=urn:aaid:scds:US:636547b4-00f8-447e-93ad-4cc11906607b>

Kevin Kowalkowski

Primoris Water & Mechanical

Division of Cardinal Contractors, Inc.

C: 501.881.9248

E: kkowalkowski@prim.com

From: CC Control Corp <info@cccontrolcorp.com>

Sent: Monday, 12 June, 2023 10:23

To: Kevin Kowalkowski <kkowalkowski@prim.com>; Jesus Collazo <jcollazo@cccontrolcorp.com>

Cc: Diana Mira Rincon <dmira@prim.com>; CC Control Corp <info@cccontrolcorp.com>; Juan Reyes <jreyes@cccontrolcorp.com>; Jeffrey Needs <JNeeds@cccontrolcorp.com>; Matt Skidmore <MSKIDMORE@cccontrolcorp.com>

Subject: RE: Submittal - 40 90 00 - 01C Instrumentation & Controls

You don't often get email from info@cccontrolcorp.com. [Learn why this is important](#)

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Thank you Kevin,

Once we review the comments we will advise on estimated delivery dates.

Edwin Feliciano
Project Coordinator
C.C. Control Corp.
5760 Corporate Way
West Palm Beach, Florida 33407
Main: 561.293.3975
Cell: 561-917-0147
Direct: 561-293-3975 x115
Fax: 561.293.3976



From: Kevin Kowalkowski <kkowalkowski@prim.com>
Sent: Friday, June 9, 2023 1:50 PM
To: Jesus Collazo <collazo@cccontrolcorp.com>
Cc: Diana Mira Rincon <dmira@prim.com>; CC Control Corp <info@cccontrolcorp.com>; Juan Reyes <jreyes@cccontrolcorp.com>; Jeffrey Needs <JNeeds@cccontrolcorp.com>; Matt Skidmore <MSKIDMORE@cccontrolcorp.com>
Subject: Submittal - 40 90 00 - 01C Instrumentation & Controls

Good afternoon,

I had requested an update in regards this submittal. The engineers will put together the total package on Monday and send it to me then. Once I receive it, I will forward it to you all. In the meantime, they were able to send the electrical engineers comments. Please see attached.

Please ensure that all comments are addressed and fixed, even though it says no resubmittal required. As for the instrumentations and controls, please confirm lead times and ETA's at your earliest time.

Thank you,

Kevin Kowalkowski
Project Engineer
Primoris Water & Mechanical
Division of Cardinal Contractors, Inc.
13794 NW 4th St, Suite 200
Sunrise, FL 33325
C: 501.881.9248
E: kkowalkowski@prim.com
www.prim.com [linkprotect.cudasvc.com]

Supply Chain and Service Level Updates

Rockwell Automation Manufacturing Lead Times | As of June 21, 2023

Estimated in calendar days for those select products that may be experiencing delays because of ongoing supply constraints stemming from components shortages and related issues.

Product Family and Product	Standard Lead Time	Current Average Lead Time as of 06/21/2023	change since previous update*
1756 L8 ControlLogix® 5580 Controllers	Stock	159	↔
1756 L8 GuardLogix® 5580 Safety Controllers	Stock	162	↔
1756 L8 ControlLogix 5580 Process Controllers	Stock	167	↔
1756 L7 ControlLogix 5570 Controllers	Stock	97	↔
1756 ControlLogix Chassis	Stock	146	↔
5069 CompactLogix™ Controllers 5380	Stock	43	↓
5069 Compact GuardLogix Safety Controllers 5380	Stock	61	↔
5069 CompactLogix Process Controllers 5380	Stock	62	↔
1769 L1 CompactLogix Controllers 5370	Stock	93	↔
1769 L2 CompactLogix Controllers 5370	Stock	121	↔
1769 L3 CompactLogix Controllers 5370	Stock	79	↓
1769 L3 Compact GuardLogix Safety Controllers 5370	Stock	86	↓
Micro800™ Control Systems	Stock	61	↔
ControlLogix Redundancy Modules	Stock	140	↔
AADvance® Control System Processors and I/O	Stock	116	↔
Trusted® Processors, Communications & I/O	Stock	176	↔
AADvance® Accessories	Stock	139	↔
1715 I/O Products	Stock	131	↔
1732 ArmorBlock® I/O	Stock	124	↓
1732ES ArmorBlock Guard I/O™ Blocks	Stock	162	↔
1734 I/O Non-Safety, digital input products	Stock	17	↔
1734 I/O Non-Safety, digital output products	Stock	116	↓
1734 I/O Safety	Stock	173	↔
1756 AC Power Supplies	Stock	129	↔
1756 Analog I/O	Stock	216	↔
1756 Safety I/O - Discrete VDC	Stock	175	↔
1756 Wiring Terminations	Stock	179	↔
1769 CompactLogix Analog I/O	Stock	165	↓
1769 CompactLogix Discrete I/O	Stock	96	↔
1794 Flex™ I/O	Stock	88	↔
5069 Compact 5000™ I/O	Stock	77	↔
5069 Compact 5000 Safety I/O	Stock	66	↓
1756 DeviceNet™ (DNB)	Stock	184	↔
5094 Flex 5000™ I/O Modules	Stock	122	↔
1756 EtherNet (EN2/EN3)	Stock	182	↔
1756 EtherNet (EN4)	Stock	222	↔
Stratix® 2500 Lightly Managed Switches	Stock	185	↔
Stratix 5400 Managed Switches	Stock	186	↔

* ↑ increased by 7 days or more | ↔ change of less than 7 days
 ↓ decreased by 7 days or more | - not on previous list

Supply Chain and Service Level Updates

Product Family and Product	Standard Lead Time	Current Average Lead Time as of 06/21/2023	change since previous update*
Stratix 5700 Fixed Managed Switches	Stock	186	↔
ArmorStratix™ 5700 Industrial Ethernet Switches	Stock	151	↔
PanelView™ 5510 - 07"	Stock	59	↔
PanelView 5510 - 07" W	Stock	58	↔
PanelView 5510 - 09" W	Stock	92	↔
PanelView 5510 - 10"	Stock	61	↔
PanelView 5510 - 12" W	Stock	79	↔
PanelView 5510 - 15"	Stock	65	↔
PanelView 5510 - 19"	Stock	64	↔
PanelView 5310 - 06"	Stock	65	↔
PanelView 5310 - 07" W	Stock	69	↑
PanelView 5310 - 09" W	Stock	74	↓
PanelView 5310 - 10"	Stock	65	↔
PanelView 5310 - 12" W	Stock	82	↔
PanelView Plus 7 Performance - 07"	Stock	92	↔
PanelView Plus 7 Performance - 09" W	Stock	104	↔
PanelView Plus 7 Performance - 10"	Stock	94	↔
PanelView Plus 7 Performance - 12" W	Stock	60	↔
PanelView Plus 7 Performance - 15"	Stock	78	↔
PanelView Plus 7 Performance - 19"	Stock	91	↔
PanelView Plus 7 Standard - 04" W	Stock	179	↔
PanelView Plus 7 Standard - 06"	Stock	150	↔
PanelView Plus 7 Standard - 07"	Stock	174	↔
PanelView Plus 7 Standard - 09" W	Stock	166	↓
PanelView Plus 7 Standard - 10"	Stock	190	↔
PanelView Plus 7 Standard - 12" W	Stock	218	↔
PanelView Plus 7 Standard - 15"	Stock	218	↔
ASEM 6300B Fanless BookMount Box PC	Stock	82	↔
ASEM 6300B Fanless Wall/DIN Box PC	Stock	83	↔
ASEM 6300B Performance Wall/DIN PC	Stock	68	↔
ASEM 6300M Monitor	Stock	83	↔
ASEM 6300P Fanless Panel PC	Stock	95	↔
ASEM 6300T Box Thin Client	Stock	84	↔
FactoryTalk® Historian Machine Ed	Stock	135	↓
Kinetix® 5700 Servo Drives	Stock	185	↓
Kinetix 5500 Servo Drives	Stock	145	↔
Kinetix 5500/5700 Accessories	Stock	66	↔
Kinetix 5300 Servo Drives	Stock	106	↓
Kinetix 5100 Servo Drives	Stock	84	↔
Kinetix VP-Series Servo Motors	Stock	22	↔
Kinetix VPC Servo Motors	Stock	108	↔

* ↑ increased by 7 days or more | ↔ change of less than 7 days
 ↓ decreased by 7 days or more | - not on previous list

Supply Chain and Service Level Updates

Product Family and Product	Standard Lead Time	Current Average Lead Time as of 06/21/2023	change since previous update*
Kinetix MP-Series Servo Motors	Stock	27	↔
Kinetix MPS/VPS Stainless Steel Servo Motors	Stock	58	↓
Kinetix MMA Main Motors	Stock	143	↔
Kinetix TL-Series Servo Motors	Stock	100	↔
Linear Actuators (VPAR, MPAR, MPAI, LDC)	Stock	99	↔
2090 Kinetix Single Cables Type PUR/PVC	Stock	37	↔
2090 Kinetix Single Cables Type TPE	Stock	99	↓
iTRAK® 5730 Small Frame	Stock	152	↔
MagneMover® LITE motor modules	Stock	229	↔
QuickStick® motor modules	Stock	151	↔
PowerFlex® 755 and 753 AC drives frames 1-5	Stock	137	↔
PowerFlex 755 AC drives frames 6-7	Stock	157	↑
PowerFlex 753 AC drives frames 6-7	Stock	162	↑
PowerFlex 755 AC drives High Power	20	259	↔
PowerFlex 755T	20	136	↔
PowerFlex 523 AC drives	Stock	65	↔
PowerFlex 525 AC drives	Stock	70	↔
PowerFlex 527 AC drives	Stock	148	↔
PowerFlex 4 AC drives	Stock	87	↔
PowerFlex 4M AC drives	Stock	71	↔
PowerFlex 40 AC drives	Stock	88	↔
Smart Motor Controller™ (SMC-50 and SMC Flex) soft starters and accessories	Stock	76	↔
Smart Motor Controller (SMC-3) soft starters	Stock	86	↔
E300™ Electronic Overload Relay control and EtherNet/IP modules	Stock	93	↔
ArmorStart™ LT	Stock	28	↓
ArmorStart ST	Stock	97	↓
Armor PowerFlex	Stock	119	↔
889 Cables and Cordsets	Stock	42	↔
440P Limit Switches	Stock	77	↔
440R Guardmaster® Safety Relays	Stock	40	↓
442G-MAB Multifunction Access Box	Stock	64	↔
TLS-GD2 Guard Locking Switches	Stock	32	↔
450L Safety Light Curtains	Stock	24	↔
1489 & 1492 Miniature Circuit Breakers	Stock	45	↔
1606-XLE Power Supply	Stock	83	↔
1606-XLP Power Supply	Stock	80	↔
1606-XLS Power Supply	Stock	87	↔
100 IEC Contactors (<85 Amps)	Stock	48	↔
100 IEC Contactors (>85 Amps)	Stock	53	↔

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* ↑ increased by 7 days or more | ↔ change of less than 7 days
 ↓ decreased by 7 days or more | - not on previous list





Cardinal Contractors, Inc.
 13790 NW 4th Street, Unit 200
 Sunrise, FL 33325
 p: 954.587.0520 f: 954.587.6653

September 11, 2023

Richard Chipman
 Palm Beach County WUD
 8100 Forest Hill Boulevard
 West Palm Beach, FL 33413
RLeetch@pbcwater.com

**Re: REPUMP STATION NO. 8310 UPGRADES AND IMPROVEMENTS
 WUD 18-064R, CARDINAL JOB NO. 85031
 COST PROPOSAL NUMBER: 001-R3**

Mr. Chipman,

We have prepared this cost proposal to provide additional material, labor and supervision resulting from scope modifications by PBCWUD, including the addition of PLC Cards and material for VFD hardwired controls, by CC Controls, electrical modifications by Durham Electric, and additional project management services by Cardinal Contractors, Inc.

0.3 a. Material Total		\$0.00
b. Labor Total		\$1,201.50
c. Subcontracts		\$22,373.55
d. Equipment Total		\$0.00
	Subtotal Estimated Cost	\$ 23,575.05
e. OH&P on Material	15% of line a	\$ -
f. OH&P on Labor (Field)	15% of line b	\$ 180.23
g. OH&P on Labor (Office)	Pass through	\$ -
h. OH&P on Subcontract	5% of line c	\$ 1,118.68
i. OH&P on Equipment	Pass through	\$ -
j. Engineering Fees	Pass through	\$ -
k. Tax (Breakdown Item 1)	Pass through	\$ 632.00
	Total Estimated Cost	\$ 25,505.95
l. Bond	1% of Subtotal	\$ 255.06
	Total Estimated Cost	\$ 25,761.01

This proposal is valid for 30 calendar days until October 11, 2023 and will be re-quoted only upon written request.

This proposal is based on Cardinal Contractor's direct costs to perform the work described herein. Based on current manufacturer lead times, the time impact to the project is anticipated to be **266 calendar days**, based on current anticipated delivery date of the I&C equipment and duration for activities following the delivery of I&C equipment.

Please review the proposal carefully. If you would like us to proceed with the work, please issue a change order at your earliest convenience.

Very Truly Yours,
 Cardinal Contractors, Inc.

Diana Mira

COST ESTIMATE SHEET

Cardinal Job No. 85031
 Proposal No. 001-R1

Description: Instrumentation and Controls Scope Modifications

COST CODE	DESCRIPTION	UNIT	QTY	OTHER		MATERIALS (Include 7% FSST)		LABOR				SUBCONTRACTS		EQUIPMENT RENTALS		TOTALS		
				UP	(34) TOTAL	UP	(31) TOTAL	LABOR UNIT	MH	LABOR RATE	(11 & 16) TOTAL	UP	(41) TOTAL	UP	(21 & 21) TOTAL	UP	TOTAL	
	TOTALS				\$0.00		\$0.00		12.00			\$1,201.50		\$22,373.55		\$0.00	\$23,575.05	
	Sales Tax	LS				0.07	\$ -								0.07	\$0.00	\$ -	
	SUBTOTALS				\$0.00		\$ -		12.00			\$1,201.50		\$22,373.55		\$0.00	\$ 23,575.05	
SCOPE OF WORK:																		
1	Instrumentation and Control services: Addition of PLC Cards and material required for VFD hardwired controls, by CC Control Corp	LS	1										\$ 9,700.00	\$ 9,700.00			\$ 9,700.00	
2	Electrical services: additional raceway and boxes for changes to control and instrumentation conduit and wire, by Durham Electric, Inc.	LS	1										\$ 12,673.55	\$ 12,673.55			\$ 12,673.55	
3	Assistant Project Manager	EA	1					1.00	6.00	\$ 85.25	\$ 511.50						\$ 511.50	
4	Project Manager	EA	1					1.00	6.00	\$ 115.00	\$ 690.00						\$ 690.00	
5	Superintendent	EA	1					0.00	0.00	\$ 112.60	\$ -						\$ -	

SUMMARY
ITEMS NO.1
ITEMS NO.2

CREDIT
ADDITIONAL MATERIAL REQUIRED

SELL
\$11,500.00
\$21,200.00

TOTAL \$9,700.00

TOTAL SELL: \$9,700.00
PLUS TAX IF APPLICABLE

TAX 6% \$582.00
SURTAX \$50.00
TOTAL \$10,332.00

SUBMITTALS 8-10 WEEKS
AFTER RECEIPT OF PURCHASE ORDER
FOB: JOB SITE
DEL: 28-32 WEEKS
AFTER APPROVED DRAWINGS
TERMS: NET 30 DAYS
(SUBJECT TO CREDIT APPROVAL)

WARRANTY: ALL WARRANTIES SHALL EXPIRE ONE (1) YEAR FROM DATE OF START-UP
FROM SELLER TO BUYER UNLESS SPECIALLY INDICATED OTHERWISE AND
WILL BE NULL AND VOID UNLESS MATERIALS ARE STORED UNDER PROPER
CONDITIONS DETERMINED BY C.C. CONTROL CORP.

JEFF NEEDS
jneeds@CCControlCorp.com

Durham Electric
 PO Box 3843
 Hollywood, Florida 33083
 Phone: 19542706836

Project: 03042022-1 - PALM BEACH COUNTY WATER UTILITIES
 DEPARTMENT REPUMP STATION NO. 8310 UPGRADES AND
 IMPROVEMENTS
 1451 NW 1st Ave
 South Bay, Florida 33493

Prime Contract Change Order #001: CE #001 - Addition/Changes to controls

TO:	Cardinal Contractors 13790 NW 4th Street, Ste. 109 Sunrise, Florida 33325	FROM:	Durham Electric Inc. PO Box 3843 Hollywood, Florida 33083
DATE CREATED:	3/29/2023	CREATED BY:	Steven Geisler (Durham Electric Inc.)
CONTRACT STATUS:	Pending - In Review	REVISION:	0
REQUEST RECEIVED FROM:	Diana Mira	LOCATION:	
DESIGNATED REVIEWER:		REVIEWED BY:	
DUE DATE:		REVIEW DATE:	
INVOICED DATE:		PAID DATE:	
REFERENCE:		CHANGE REASON:	Client Request
PAID IN FULL:	No	EXECUTED:	No
ACCOUNTING METHOD:	Amount Based	SCHEDULE IMPACT:	
SIGNED CHANGE ORDER RECEIVED DATE:		REVISED SUBSTANTIAL COMPLETION DATE:	
FIELD CHANGE:	No	CONTRACT FOR:	1: Palm Beach County WUD Project # 18-064R Repump Station No. 8310 Upgrades and Improvement
		TOTAL AMOUNT:	\$12,673.55

DESCRIPTION:
 CE #001 - Addition/Changes to controls
 Changes to control and instrumentation conduit and Wire

1. Conduit and wires between RTU and Portable Bypass Pump Pad Terminal Junction Box.
2. 12#14 for up to 6 digital signals, in 1" conduit.
3. 2#16 twisted shielded for up to 2 analog signals, in 1" conduit.
4. NEMA 4X 316SS Terminal junction box with terminals for all above wires.
5. Conduit and wires between RTU and each VFD.
6. 24#14 for up to 12 digital signals, in 1-1/4" conduit.
7. Eliminate the Cat 5/E cable presently in the design.
8. Use the 1" conduit made spare by eliminating Cat 5/E for 3#16 twisted, shielded pairs for up to 3 analog signals.

ATTACHMENTS:

CHANGE ORDER LINE ITEMS:

#	Budget Code	Description	Amount
1	26-5-33.M Raceway and Boxes for Electrical Systems.Materials	VFD Control Wiring Changes Material	\$930.76
2	26-5-33.L Raceway and Boxes for Electrical Systems.Labor	VFD Control Wiring Changes Labor	\$1,820.07
3	26-5-33.M Raceway and Boxes for Electrical Systems.Materials	Bypass Pump Controls Material	\$5,210.75
4	26-5-33.L Raceway and Boxes for Electrical Systems.Labor	Bypass Pump Controls Labor	\$2,628.99

#	Budget Code	Description	Amount
5	26-5-33.M Raceway and Boxes for Electrical Systems.Materials	Sales Tax on material @ 7%	\$429.91
6	1-99.MU markup.Markup	OH&P 15%	\$1,653.07
Grand Total:			\$12,673.55

The original (Contract Sum)	\$430,164.00
Net change by previously authorized Change Orders	\$0.00
The contract sum prior to this Change Order was	\$430,164.00
The contract sum would be changed by this Change Order in the amount of	\$12,673.55
The new contract sum including this Change Order will be	\$442,837.55
The contract time will not be changed by this Change Order.	

Cardinal Contractors
 13790 NW 4th Street, Ste. 109
 Sunrise, Florida 33325

Durham Electric Inc.
 PO Box 3843
 Hollywood, Florida 33083

_____ SIGNATURE	_____ DATE	_____ SIGNATURE	_____ DATE	_____ SIGNATURE	_____ DATE
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Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Early Finish	Predecessor	Successor	Total Float	Calendar
85051-8310 Repump Station									
General Contract Items		467	376	25-Jan-23 A	24-Aug-24			-266	Calendar D:
GC1020	Preconstruction Meeting	0	0	25-Jan-23 A		GC1000	GC1010,		Calendar D:
GC1000	Notice to Proceed (NTP)	0	0	06-Feb-23 A			P1170, P		Calendar D:
GC1030	Mobilization	40	40	06-Feb-23 A	23-Sep-23	GC1020,	C1050	70	Calendar D:
GC1010	Weather Days Allowance	0	0	15-Aug-23	15-Aug-23	GC1020	GC1040	80	Calendar D:
GC1040	Substantial Completion	0	0		25-Jul-24	GC1010,	GC1050	-266	Calendar D:
GC1050	Punchlist	30	30	25-Jul-24	24-Aug-24	GC1040	GC1060	-266	Calendar D:
GC1060	Final Completion	0	0		24-Aug-24	M 40 05 :		-266	Calendar D:
Engineering		20	0	06-Feb-23 A	03-Mar-23			0	
Design		0	0					0	
Permitting		26	0	06-Feb-23 A	03-Mar-23				Calendar D:
P1160	City of South Bay Building Department	5	0	06-Feb-23 A	10-Feb-23	GC1000	GC1030,		Calendar D:
P1170	Health Department Permit	5	0	06-Feb-23 A	10-Feb-23	GC1000	C1050		Calendar D:
P1180	FDEP Demolition Notification	10	0	22-Feb-23 A	03-Mar-23	GC1000	C1050		Calendar D:
Procurement		212	125	06-Feb-23 A	14-Feb-24			-49	
Prepare and Submit		200	26	06-Feb-23 A	09-Sep-23			64	Calendar D:
PS 14 60 00	Crane and Hoist	30	0	06-Feb-23 A	09-Feb-23	GC1000	R 14 60 (		Calendar D:
PS 03 00 00	Concrete and Auger Cast Piles	30	0	06-Feb-23 A	14-Mar-23	GC1000	R 03 00 (		Calendar D:
PS 26 00 00	Electrical	30	0	06-Feb-23 A	06-Feb-23	GC1000	R 26 00 (		Calendar D:
PS 09 96 00	Coatings	30	0	06-Feb-23 A	06-Feb-23	GC1000	R 09 96 (		Calendar D:
PS 05 50 59	Booster Pump Skid	30	0	06-Feb-23 A	06-Feb-23	GC1000	R 05 50 (		Calendar D:
PS 02 41 00	Demolition Plan	20	0	06-Feb-23 A	03-Mar-23	GC1000	R 02 41 (		Calendar D:
PS 31 62 16	Steel Sheet Piles	30	0	06-Feb-23 A	06-Feb-23	GC1000	R 31 62 (		Calendar D:
PS 40 05 30	PVC pipe and fittings	30	0	06-Feb-23 A	06-Feb-23	GC1000	R 40 05 (		Calendar D:
PS 40 05 00	Piping, General	30	0	06-Feb-23 A	06-Feb-23	GC1000	R 40 05 (		Calendar D:
PS 40 05 07	Pipe supports	30	0	06-Feb-23 A	06-Feb-23	GC1000	R 40 05 (		Calendar D:
PS 40 50 19	Ductile Iron pipe	30	0	06-Feb-23 A	06-Feb-23	GC1000	R 40 50 (		Calendar D:
PS 40 90 00	Controls and Instrumentation	60	0	06-Feb-23 A	10-Mar-23	GC1000	R 40 90 (		Calendar D:
PS 40 97 00	Variable Frequency Drives (VFDs)	30	0	06-Feb-23 A	06-Feb-23	GC1000	R 40 97 (		Calendar D:
PS 40 30 00	Valves	30	0	06-Feb-23 A	21-Feb-23	GC1000	R 40 30 (		Calendar D:
PS 01 14 13	Access to site	30	0	06-Feb-23 A	06-Mar-23	GC1000	R 01 14 (		Calendar D:
PS 01 35 00	Safety Plans	30	0	06-Feb-23 A	06-Feb-23	GC1000	R 01 35 (		Calendar D:
PS 01 32 36	Pre construction Video	10	0	06-Feb-23 A	09-Feb-23	GC1000	R 01 32 (		Calendar D:
PS 26 00 00	Antenna	30	0	06-Feb-23 A	18-Apr-23	GC1000	M 26 00 (		Calendar D:
PS 05 50 00	Metals (Roof Structure and Handrail)	70	26	06-Feb-23 A	09-Sep-23	GC1000	R 05 50 (	-73	Calendar D:
PS 32 12 16	Asphalt Paving	10	10	15-Aug-23	24-Aug-23	GC1000	R 32 12 (	12	Calendar D:
PS 32 31 13	Fence	10	10	15-Aug-23	24-Aug-23	GC1000	R 32 31 (	-46	Calendar D:
PS 40 05 02	Piping Identification	10	10	15-Aug-23	24-Aug-23	GC1000	R 40 05 (	56	Calendar D:
PS 43 20 00	Temporary Bypass Pump System	10	10	15-Aug-23	24-Aug-23	GC1000	R 43 20 (	-127	Calendar D:
Review and Approve		153	28	06-Feb-23 A	23-Sep-23			48	
R 14 60 00	Crane and Hoist	14	0	09-Feb-23 A	23-Feb-23	PS 14 60	M 14 60 (Calendar D:



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REPUMP STATION NO. 8310 UPGRADES AND IMPROVEMENTS
 CARDINAL CONTRACTORS, INC.
 PALM BEACH COUNTY WATER UTILITIES DEPARTMENT

Date	Revision	Checked	Approved
12-May-23 0...	Preliminary Schedule	DV	

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Early Finish	Predecessor	Successor	Total Float	Calendar	
R 03 00 00	Concrete and Auger Cast Piles	14	0	14-Feb-23 A	23-Mar-23	PS 03 00	M 03 00 C		Calendar D:	Concrete and Auger Cast Piles
R 26 00 00	Electrical	14	0	06-Feb-23 A	06-Feb-23	PS 26 00	M 26 00 C		Calendar D:	Electrical
R 09 96 00	Coatings	14	0	06-Feb-23 A	06-Feb-23	PS 09 96	M 09 96 C		Calendar D:	Coatings
R 05 50 79	Booster Pump Skid	14	0	06-Feb-23 A	06-Feb-23	PS 05 50	M 05 50 C		Calendar D:	Booster Pump Skid
R 02 41 00	Demolition Plan	14	0	03-Mar-23 A	04-Mar-23	PS 02 41	C1050		Calendar D:	Demolition Plan
R 31 62 16.1	Steel Sheet Piles	14	0	06-Feb-23 A	06-Feb-23	PS 31 62	M 31 62 C		Calendar D:	Steel Sheet Piles
R 40 05 30.1	PVC pipe and fittings	14	0	06-Feb-23 A	21-Mar-23	PS 40 05	M 40 05 C		Calendar D:	PVC pipe and fittings
R 40 05 70	Piping, General	14	0	06-Feb-23 A	06-Feb-23	PS 40 05	M 40 05 C		Calendar D:	Piping, General
R 40 05 27	Pipe supports	14	0	06-Feb-23 A	06-Feb-23	PS 40 05	M 40 05 C		Calendar D:	Pipe supports
R 40 50 29	Ductile Iron pipe	14	0	06-Feb-23 A	06-Feb-23	PS 40 50	M 40 50 C		Calendar D:	Ductile Iron pipe
R 40 90 00	Controls and Instrumentation	14	0	10-Mar-23 A	13-Jun-23	PS 40 90	M 40 90 C		Calendar D:	Controls and Instrumentation
R 40 97 00	Variable Frequency Drives (VFDs)	14	0	06-Feb-23 A	06-Feb-23	PS 40 97	M 40 97 C		Calendar D:	Variable Frequency Drives (VFDs)
R 40 30 00	Valves	14	0	21-Feb-23 A	21-Mar-23	PS 40 30	M 40 30 C		Calendar D:	Valves
R 01 35 00	Safety Plans	14	0	06-Feb-23 A	06-Feb-23	PS 01 35	M 01 35 C		Calendar D:	Safety Plans
R 01 32 36	Pre construction Video	14	0	09-Feb-23 A	30-Mar-23	PS 01 32	M 01 32 C		Calendar D:	Pre construction Video
R 26 00 00.1	Antenna	14	0	18-Apr-23 A	06-Jun-23	PS 26 00	M 26 00 C		East 10 Ho	Antenna
R 01 14 23	Access to site	14	14	15-Aug-23	28-Aug-23	PS 01 14	GC1030	96	Calendar D:	Access to site
R 32 12 26	Asphalt Paving	14	14	25-Aug-23	07-Sep-23	PS 32 12	M 32 12 C	12	Calendar D:	Asphalt Paving
R 32 31 23	Fence	14	14	25-Aug-23	07-Sep-23	PS 32 31	M 32 31 C	-46	Calendar D:	Fence
R 40 05 17	Piping Identification	14	14	25-Aug-23	07-Sep-23	PS 40 05	M 40 05 C	56	Calendar D:	Piping Identification
R 43 20 00	Temporary Bypass Pump System	14	14	25-Aug-23	07-Sep-23	PS 43 20	M 43 20 C	-127	Calendar D:	Temporary Bypass Pump System
R 05 50 69	Metals (Roof Structure and Handrail)	14	14	10-Sep-23	23-Sep-23	PS 05 50	M 05 50 C	-73	Calendar D:	Metals (Roof Structure and Handrail)
Manufacture and Deliver		280	184	06-Feb-23 A	14-Feb-24			-74	Calendar D:	
M 26 00 00	Electrical	45	0	06-Feb-23 A	02-Jun-23	R 26 00 C	C1170, C		Calendar D:	Electrical
M 40 05 80	Piping, General - Bypass System	30	0	23-Mar-23 A	07-Apr-23	R 40 05 C	C1070, C		Calendar D:	Piping, General - Bypass System
M 01 32 36	Pre construction Video	13	0	30-Mar-23 A	30-Mar-23	R 01 32 C	GC1040		Calendar D:	Pre construction Video
M 03 00 00.1	Concrete and Auger Cast Piles	3	0	16-May-23 A	13-Jun-23	R 03 00 C	C1100		Calendar D:	Concrete and Auger Cast Piles
M 14 60 00	Crane and Hoist	50	6	23-Mar-23 A	20-Aug-23	R 14 60 C	C1350	-18	Calendar D:	Crane and Hoist
M 03 00 00	Concrete (for slabs)	10	10	15-Aug-23	24-Aug-23	R 03 00 C	C1150, C	-70	Calendar D:	Concrete (for slabs)
M 09 96 00	Coatings	30	0	06-Feb-23 A	13-Sep-23	R 09 96 C	C1420	29	Calendar D:	Coatings
M 05 50 79	Booster Pump Skid	140	46	06-Feb-23 A	29-Sep-23	R 05 50 C	C1310	-101	Calendar D:	Booster Pump Skid
M 31 62 16.1	Steel Sheet Piles	49	29	06-Feb-23 A	12-Sep-23	R 31 62 C	C1410	-20	Calendar D:	Steel Sheet Piles
M 40 05 30.1	PVC pipe and fittings	84	0	23-Mar-23 A	15-Aug-23	R 40 05 C	C1360, C	-89	Calendar D:	PVC pipe and fittings
M 40 05 70	Piping, General	56	56	16-May-23 A	09-Oct-23	R 40 05 C	C1360, C	-138	Calendar D:	Piping, General
M 40 05 27	Pipe supports	45	17	06-Feb-23 A	31-Aug-23	R 40 05 C	GC1060,	-72	Calendar D:	Pipe supports
M 40 50 29	Ductile Iron pipe	84	56	06-Feb-23 A	09-Oct-23	R 40 50 C	C1360, C	-138	Calendar D:	Ductile Iron pipe
M 40 90 00	Controls and Instrumentation	149	184	14-Jun-23 A	14-Feb-24	R 40 90 C	C1370, C	-266	Calendar D:	Controls and Instrumentation
M 40 97 00	Variable Frequency Drives (VFDs)	210	95	22-Mar-23 A	17-Nov-23	R 40 97 C	C1380, C	-184	Calendar D:	Variable Frequency Drives (VFDs)
M 40 30 00	Valves	84	20	22-Mar-23 A	03-Sep-23	R 40 30 C	C1360, C	-102	Calendar D:	Valves
M 26 00 00.1	Antenna	48	18	06-Jun-23 A	01-Sep-23	R 26 00 C	C1190	-23	Calendar D:	Antenna
M 32 12 26	Asphalt Paving	30	30	08-Sep-23	07-Oct-23	R 32 12 C	C1470	12	Calendar D:	Asphalt Paving



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REPUMP STATION NO. 8310 UPGRADES AND IMPROVEMENTS
CARDINAL CONTRACTORS, INC.
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT

Date	Revision	Checked	Approved
12-May-23 0...	Preliminary Schedule	DV	

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Early Finish	Predecessor	Successor	Total Float	Calendar	
M 32 31 23	Fence	60	60	08-Sep-23	06-Nov-23	R 32 31 2	C1440	-46	Calendar Di	Fence
M 40 05 17	Piping Identification	30	30	08-Sep-23	07-Oct-23	R 40 05 1	GC1060	56	Calendar Di	Piping Identification
M 43 20 00	Temporary Bypass Pump System	14	14	08-Sep-23	21-Sep-23	R 43 20 0	C1210	-127	Calendar Di	Temporary Bypass Pump System
M 05 50 69	Metals (Roof Structure and Handrail)	14	14	24-Sep-23	07-Oct-23	R 05 50 6	C1430, C	-73	Calendar Di	Metals (Roof Structure and Handrail)
Change in the Work		25	0	10-May-23 A	09-Jun-23				East 10 Hoi	
Emergency Leak Repair		25	0	10-May-23 A	09-Jun-23				East 10 Hoi	
A1000	Layout	5	0	10-May-23 A	10-May-23	GC1000	A1010		East 10 Hoi	Layout
A1010	Excavation	5	0	10-May-23 A	10-May-23	A1000	A1020		East 10 Hoi	Excavation
A1020	Removal of existing piping	5	0	10-May-23 A	10-May-23	A1010	A1030		East 10 Hoi	Removal of existing piping
A1030	Reinstallation of existing piping with new owner fu	5	0	10-May-23 A	10-May-23	A1020	A1040		East 10 Hoi	Reinstallation of existing piping with new owner furnished accessories
A1040	Start up of pump system	5	0	10-May-23 A	10-May-23	A1030	A1015		East 10 Hoi	Start up of pump system
A1015	Shut down of pump system	5	0	10-May-23 A	10-May-23	A1040	A1017		East 10 Hoi	Shut down of pump system
A1017	Switch to Bypass System	5	0	10-May-23 A	10-May-23	A1015	A1025		East 10 Hoi	Switch to Bypass System
A1025	Draining of pipe	5	0	10-May-23 A	10-May-23	A1017	A1050		East 10 Hoi	Draining of pipe
A1050	Backfill and compact to grade level	5	0	10-May-23 A	12-May-23	A1025	C1100, A		East 10 Hoi	Backfill and compact to grade level
A1060	Density tests	5	0	16-May-23 A	09-Jun-23	A1050	C1100		East 10 Hoi	Density tests
Construction Activities		371	238	06-Feb-23 A	25-Jul-24			-162	East 10 Hoi	
C1000	Layout and survey	10	0	06-Feb-23 A	20-Feb-23	GC1000	C1010		East 10 Hoi	Layout and survey
C1010	Locates	10	0	06-Feb-23 A	20-Feb-23	C1000	C1020		East 10 Hoi	Locates
C1020	Potholing	10	0	06-Feb-23 A	20-Feb-23	C1010	C1030		East 10 Hoi	Potholing
C1030	Install new temporary fence/Relocate existing	5	0	20-Feb-23 A	27-Feb-23	C1020	C1050, C		East 10 Hoi	Install new temporary fence/Relocate existing
C1100	Install Auger Cast Piling	5	0	15-Jun-23 A	30-Jun-23	M 03 00 0	C1110, C		East 10 Hoi	Install Auger Cast Piling
C1110	Form and rebar Odophos Tank and Generator slab	10	0	04-Aug-23 A	15-Aug-23	C1100, C	C1120, C		East 10 Hoi	Form and rebar Odophos Tank and Generator slab
C1120	Pour new Odophos Tank and Generator slab	3	0	15-Aug-23 A	15-Aug-23	C1110	C1250, C		East 10 Hoi	Pour new Odophos Tank and Generator slab
C1060	Backfill to grade level	6	0	21-Apr-23 A	05-May-23	C1090	C1170, C		East 10 Hoi	Backfill to grade level
C1080	Install underground piping (for bypass system)	5	0	18-Apr-23 A	20-Apr-23		C1100		East 10 Hoi	Install underground piping (for bypass system)
C1090	Install/Relocate new bypass system	5	0	18-Apr-23 A	20-Apr-23		C1100, C		East 10 Hoi	Install/Relocate new bypass system
C1040	Disassembly of piping, preparation work for dem	10	0	27-Feb-23 A	13-Mar-23	C1030	C1050		East 10 Hoi	Disassembly of piping, preparation work for demolition
C1170	Install underground conduits	30	30	11-Jul-23 A	26-Sep-23	M 26 00 0	C1200, C	-48	East 10 Hoi	Install underground conduits
C1140	Form and rebar Antenna slab	10	10	15-Aug-23	28-Aug-23	C1100, C	C1150, C	-16	East 10 Hoi	Form and rebar Antenna slab
C1130	Install new Owner Furnished Generator	5	5	22-Aug-23	28-Aug-23	C1120	C1400	-8	East 10 Hoi	Install new Owner Furnished Generator
C1150	Pour new Antenna slab	3	3	29-Aug-23	31-Aug-23	C1140, M	C1190	-16	East 10 Hoi	Pour new Antenna slab
C1160	Form and rebar Bypass Pump Slab	10	10	29-Aug-23	12-Sep-23	C1090, C	C1180	34	East 10 Hoi	Form and rebar Bypass Pump Slab
C1190	Install new Antenna	5	5	01-Sep-23	11-Sep-23	C1150, M	C1400	-17	East 10 Hoi	Install new Antenna
C1180	Pour new Bypass Pump Slab	3	3	13-Sep-23	15-Sep-23	C1160, M	GC1040	34	East 10 Hoi	Pour new Bypass Pump Slab
C1050	Demolition of Control Building, slabs, concrete str	5	0	21-Mar-23 A	28-Mar-23	C1030, P	C1070		East 10 Hoi	Demolition of Control Building, slabs, concrete slabs, etc (Phase I)
C1070	Remove existing bypass system	5	0	18-Apr-23 A	18-Apr-23	M 40 05 0			East 10 Hoi	Remove existing bypass system
C1200	install new wire	15	15	27-Sep-23	17-Oct-23	C1170, M	C1390	-48	East 10 Hoi	Install new wire
C1210	Installation of temporary bypass system	5	5	07-Feb-24	14-Feb-24	C1090, M	C1220	-181	East 10 Hoi	Installation of temporary bypass system
C1230	Demolition of the Pump Station, Roof Structure, li	5	5	14-Feb-24	21-Feb-24	C1220	C1250, C	-173	East 10 Hoi	Demolition of the Pump Station, Roof Structure, lightpo
C1240	Backfill to grade level	5	5	14-Feb-24	21-Feb-24	C1220	C1270, C	-181	East 10 Hoi	Backfill to grade level



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Date	Revision	Checked	Approved
12-May-23 0...	Preliminary Schedule	DV	

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Early Finish	Predecessor	Successor	Total Float	Calendar	
C1220	PBC Shutdown (to remove existing pump station)	0	0	14-Feb-24		C1090, C	C1240, C	-181	East 10 Hoi	◆ PBC Shutdown (to remove existing pump station system)
C1250	KEMIRA Relocate Odophos tank	5	5	21-Feb-24	28-Feb-24	C1230, C	C1330	-173	East 10 Hoi	■ KEMIRA Relocate Odophos tank
C1270	Form and rebar Pump skid slab	10	10	21-Feb-24	06-Mar-24	C1240	C1290	-181	East 10 Hoi	■ Form and rebar Pump skid slab
C1280	Install new Lightpoles	10	10	21-Feb-24	06-Mar-24	C1240, C	C1390	-143	East 10 Hoi	■ Install new Lightpoles
C1260	Install underground piping	5	5	21-Feb-24	28-Feb-24	M 40 05	C1310	-173	East 10 Hoi	■ Install underground piping
C1290	Pour new Pump skid slab	3	3	06-Mar-24	11-Mar-24	C1270, M	C1310, C	-181	East 10 Hoi	■ Pour new Pump skid slab
C1330	Install supports for I&C and Electrical	15	15	11-Mar-24	02-Apr-24	C1360, C	C1370	-181	East 10 Hoi	■ Install supports for I&C and Electrical
C1300	Install new Roof Structure	5	5	11-Mar-24	18-Mar-24	C1290, M	C1350, C	-156	East 10 Hoi	■ Install new Roof Structure
C1310	Install new Pump skid	5	5	11-Mar-24	18-Mar-24	C1290, M	C1360, C	-181	East 10 Hoi	■ Install new Pump skid
C1360	Install above ground flanged piping	20	20	11-Mar-24	09-Apr-24	C1310, M	C1330	-181	East 10 Hoi	■ Install above ground flanged piping
C1340	Form and pour housekeepings pads	10	10	18-Mar-24	02-Apr-24	C1310, M	GC1050	-82	East 10 Hoi	■ Form and pour housekeepings pads
C1350	Install new Bridge Crane	10	10	18-Mar-24	02-Apr-24	C1300, M	C1400	-166	East 10 Hoi	■ Install new Bridge Crane
C1320	Install Light fixtures under new Canopy	5	5	18-Mar-24	25-Mar-24	C1300, M	C1400	-151	East 10 Hoi	■ Install Light fixtures under new Canopy
C1370	Install new Control Panels and I&C	15	15	02-Apr-24	23-Apr-24	C1330, M	C1380	-181	East 10 Hoi	■ Install new Control Panels and I&C
C1380	Install new VFDs	5	5	23-Apr-24	30-Apr-24	C1370, M	C1390	-181	East 10 Hoi	■ Install new VFDs
C1390	Terminate new wire	5	5	30-Apr-24	07-May-24	C1200, C	C1400	-181	East 10 Hoi	■ Terminate new wire
C1400	Place system in service	5	5	07-May-24	14-May-24	C1390, C	GC1040	-181	East 10 Hoi	■ Place system in service
C1410	Install new Retaining Wall	10	10	14-May-24	29-May-24	C1400, M	C1430	-181	East 10 Hoi	■ Install new Retaining Wall
C1420	Install new Coatings	15	15	14-May-24	05-Jun-24	M 09 96	GC1060	-146	East 10 Hoi	■ Install new Coatings
C1430	Install new aluminum handrail system	10	10	29-May-24	12-Jun-24	C1410, M	C1440	-181	East 10 Hoi	■ Install new aluminum handrail system
C1440	Install new fence	10	10	12-Jun-24	26-Jun-24	C1430, M	C1450	-181	East 10 Hoi	■ Install new fence
C1450	Sod and miscellaneous restoration	5	5	26-Jun-24	03-Jul-24	C1440	C1460	-181	East 10 Hoi	■ Sod and miscellaneous restoration
C1460	Final Grading	5	5	03-Jul-24	11-Jul-24	C1450	C1470	-181	East 10 Hoi	■ Final Grading
C1470	Asphalt Restoration	10	10	11-Jul-24	25-Jul-24	C1460, M	GC1040	-181	East 10 Hoi	■ Asphalt Restoration



Start Date: 25-Jan-23
 Final Completion Date: 24-Aug-24
 Data Date: 15-Aug-23
 Filtered by:

- Actual Work
- Remaining Work
- Critical Remaining Work
- Project Baseline Bar
- Milestone

REPUMP STATION NO. 8310 UPGRADES AND IMPROVEMENTS
 CARDINAL CONTRACTORS, INC.
 PALM BEACH COUNTY WATER UTILITIES DEPARTMENT

Date	Revision	Checked	Approved
12-May-23 0...	Preliminary Schedule	DV	



Cardinal Contractors, Inc.
 13790 NW 4th Street, Unit 200
 Sunrise, FL 33325
 p: 954.587.0520 f: 954.587.6653

May 15, 2023

Richard Chipman
 Palm Beach County WUD
 8100 Forest Hill Boulevard
 West Palm Beach, FL 33413
RLeetch@pbcwater.com

**Re: REPUMP STATION NO. 8310 UPGRADES AND IMPROVEMENTS
 WUD 18-064R, CARDINAL JOB NO. 85031
 COST PROPOSAL NUMBER: 003-R1**

Mr. Chipman,

We have prepared this cost proposal to summarize costs incurred during emergency repair activities for the leak found in the underground discharge pump piping. Cost Proposal includes: additional material, labor and supervision for the removal and reinstallation of existing piping using new Owner furnished megalug and accesories, and additional labor, equipment rental and material to restore the area after the repair was completed. A detailed report of the issue, findings and activities performed is attached for reference.

a. Material Total			\$2,100.00
b. Labor Total			\$6,231.86
c. Subcontracts			\$387.50
d. Equipment Total			\$1,706.00
	Subtotal Estimated Cost	\$	10,425.36
e. OH&P on Material	15% of line a	\$	315.00
f. OH&P on Labor (Field)	15% of line b	\$	934.78
g. OH&P on Labor (Office)	Pass through	\$	-
h. OH&P on Subcontract	5% of line c	\$	19.38
i. OH&P on Equipment	Pass through		\$0.00
j. Engineering Fees	Pass through	\$	-
	Total Estimated Cost	\$	11,694.51
k. Bond	1% of Subtotal	\$	116.95
	Total Estimated Cost	\$	11,811.46

This proposal is valid for 30 calendar days until June 14, 2023 and will be re-quoted only upon written request.

This proposal is based on Cardinal Contractor's direct costs to perform the work described herein. This proposal specifically excludes any items not specifically listed herein.

Please review the proposal carefully. If you would like us to proceed with the work, please issue a change order at your earliest convenience.

Very Truly Yours,
 Cardinal Contractors, Inc.

Diana Mira

COST ESTIMATE SHEET

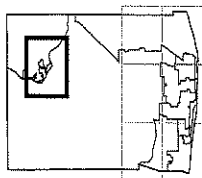
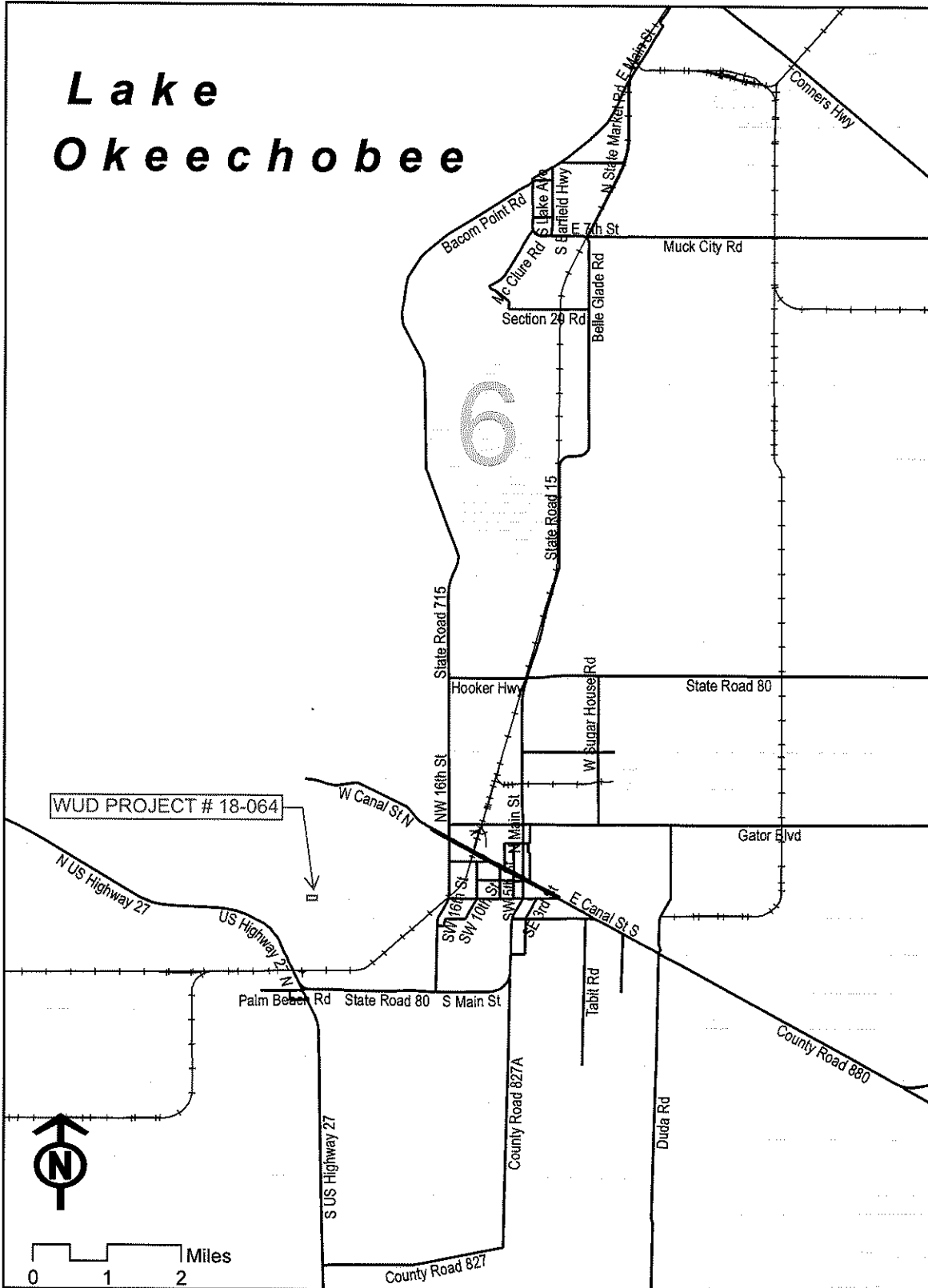
Cardinal Job No. 85031

Proposal No. 003-R1

Description: Emergency Repair

COST CODE	DESCRIPTION	UNIT	QTY	OTHER		MATERIALS (Include 7% FSS)		LABOR				SUBCONTRACTS		EQUIPMENT RENTALS		TOTALS		
				UP	TOTAL	UP	TOTAL	UNIT	MH	RATE	(11 & 16) TOTAL	UP	(41) TOTAL	UP	(21 & 21) TOTAL	UP	TOTAL	
	TOTALS				\$2,100.00		\$0.00		64.00			\$6,231.86		\$387.50		\$1,706.00		\$10,425.36
	Sales Tax	LS				0.07	\$ -								0.07	\$ -		\$ -
	SUBTOTALS				\$ 2,100.00		\$ -		64.00			\$ 6,231.86		\$ 387.50		\$ 1,706.00		\$ 10,425.36
SCOPE OF WORK:																		
1	Fill material	Load	4	\$ 350.00	\$ 1,400.00													\$ 1,400.00
2	Gravel	Load	1	\$ 700.00	\$ 700.00													\$ 700.00
3	Compactor	DAY	2												\$ 295.00	\$ 590.00		\$ 590.00
4	Mini Excavator	DAY	3												\$ 138.00	\$ 414.00		\$ 414.00
5	Backhoe	DAY	3												\$ 234.00	\$ 702.00		\$ 702.00
6	Density tests	LS	1										\$ 387.50	\$ 387.50				\$ 387.50
7	Assistant Project Manager	EA	1					1.00	4.00	\$ 85.25	\$ 341.00							\$ 341.00
8	Project Manager	EA	1					1.00	4.00	\$ 115.00	\$ 460.00							\$ 460.00
9	Laborer (straight time)	EA	2					2.00	13.00	\$ 51.91	\$ 674.83							\$ 674.83
10	Laborer (overtime)	EA	2					2.00	3.00	\$ 76.01	\$ 228.03							\$ 228.03
11	General Superintendent	EA	1					1.00	10.00	\$ 115.00	\$ 1,150.00							\$ 1,150.00
12	Superintendent	EA	1					1.00	30.00	\$ 112.60	\$ 3,378.00							\$ 3,378.00

ATTACHMENT 2
LOCATION MAP
REPUMP STATION NO. 8310
UPGRADES AND IMPROVEMENTS
PBCWUD PROJECT NO. 18-064



Location Sketch

ATTACHMENT 3



Palm Beach County Compliance Summary Report

Vendor Number	Vendor Name	AM Best Rating	Insurance Carrier	Policy #	Eff. Date	Exp. Date	Coverage	Contract Number	Contract Name
DX00001800	Cardinal Contractors, Inc.	Modified	Compliant					18-064R	Repump Station No. 8310 Upgrades And Improve
		A-g , IX	Gotham Insurance Company	EX202300003084	2/28/2023	2/28/2024	Auto Liability		
		A+p , XV	Hartford Fire Insurance Company	61CSEQU3415	2/28/2023	2/28/2024	Auto Liability		
		Ag , XV	AXIS Surplus Insurance Company	P00100080656202	2/28/2023	2/28/2024	Excess Liability		
		Ag , XIII	Oxford Insurance Company TN	1001231	2/28/2023	2/28/2024	Excess Liability		
		A+p , XV	Hartford Fire Insurance Company	61CSEQU3414	2/28/2023	2/28/2024	General Liability		
		A++g , XV	Travelers Indemnity Company of America	QT6308071X889TLC23	2/28/2023	2/28/2024	Installation Floater		
		A+p , XV	Hartford Accident and Indemnity Company	61WNQU3411	2/28/2023	2/28/2024	Workers Comp		
		A+p , XV	Twin City Fire Insurance Company	61WBRQU3412	2/28/2023	2/28/2024	Workers Comp		
A+p , XV	Twin City Fire Insurance Company	61XWEQU3413	2/28/2023	2/28/2024	Workers Comp				

Risk Profile : Standard - Construction Services

Required Additional Insured : Palm Beach County Board of County Commissioners

Ownership Entity :