



To: Jodi S. Hart, CPPO, CPPB, MBA, Chief Procurement Officer  
From: for Raj Verma, PE, Director - Public Works *Anisha Daniel*  
Recommended by: Patricia A. Carney, PE, Owner Representative – Hazen & Sawyer, PC  
Date: September 1, 2020  
Re: Change Order No. 2 for Project No. 12566

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Job Description: Project 12566, North Redundant Sewer Force Main  
Design-Builder: Murphy Pipeline Contractors, Inc.  
Amount: \$1,452,594.03, plus 0 additional days  
Funding: P12566.451-6599

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### Justification:

Since this project was an emergency procurement with the primary goal of constructing a redundant force main, complete details of this project and future interconnects were not fully vetted. It is very likely that the additional scope as requested in this Change Order (CO) would have been considered if enough time was given to develop a detailed design criteria package for this design-build project.

City staff explored the possibility of utilizing the services of another contractor or deferring the proposed work until after the completion of the present project by Murphy Pipeline Contractors, Inc. (MPC). Both options were scrapped because of potential coordination complications between the two contractors or second disruption to the neighborhood after MPC's work was completed. Thus, the disadvantages were determined to outweigh the benefits, if any. The City staff and its Representative felt that it would be prudent to utilize the services of MPC while their resources are in the immediate proximity of the site with low, negotiated prices.

### Additional Scope:

This Change Order is made up of two Request for Proposal (RFP) whose purpose is as follows:

#### RFP # 2 – Extension of Southern Limits and Stub Outs for Future Connections to Existing Force mains

- a. Extends the southern project limits approximately 750 feet to be able to connect to the South Redundant Force Main Project (P12567). This extension is required as the northern project limits for the South Redundant Force Main Project were modified as part of that project's Change Order No. 1. This RFP also includes a plug valve to be able to isolate between the North and South Redundant Force Mains.
- b. Includes the stub out and valve for a future interconnection with the existing 42-inch force main this project is replacing. This interconnection will be used to evacuate sewage in the existing pipe





when it is rehabilitated in the future. It can also be used to convey flow between the two force mains in the event one is damaged in the future.

- c. Provide a stub out and valve for the future connection of the NW 13<sup>th</sup> Force Main planned to be replaced as part of project P12388.

The total cost and time extension for RFP #2 is \$1,705,917.57 and zero (0) calendar day extension. RFP #2 and its associated backup material is attached as **Exhibit A**.

#### **RFP # 4 – Credit for Force Main at the Golf Course**

MPC original alignment was to utilize an existing easement to construct the redundant line through the golf course to the City's B-Repump. After detailed investigation, MPC determined that this was not constructible due to existing pipes in the easement. MPC's new alignment is shorter which resulted in less linear footage required for the redundant line, therefore, a credit will be applied under this change order. The total credit for RFP # 4 is (\$253,323.54) RFP # 4 and its associated backup is attached as **Exhibit B**.

Attached as **Exhibit C** is the revised Schedule of Values based on this Change Order.

Included as **Exhibit D** is a map showing the location of the proposed work for both RFPs listed above.

Please note, the design criteria for all pipe, valves and materials have been evaluated and sized by the City's Representative (Hazen & Sawyer) and diameters referenced above are internal diameters.

### **Acknowledgements:**

The aforementioned change, and work affected thereby, is subject to all provisions of the original contract not specifically changed by this Change Order;

It is expressly understood and agreed that the approval of the Change Order shall have no effect on the original contract other than matters expressly provided herein;

The prices quoted are fair and reasonable and in proper ratio to the cost of the original work contracted for under competitive bidding; and,

The change in price and/or delivery date described is considered to be fair and reasonable and has been mutually agreed upon in full agreement and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications and change orders.

This change order shall not become effective until signed by all parties.





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**NEW AND EXISTING CONTRACT ITEMS ARE UTILIZED – TOTAL CREDIT (\$253,323.54)**

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Item No. 8            42" HDD  
                         286.57 LF @ \$884  
                         **Deduct: \$253,323.54**

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**NEW AND EXISTING CONTRACT LINE ITEM(S) PROPOSED – TOTAL ADDITION \$1,705,917.57**

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Item No. 18            Design, Permit and Construct Southern Extension of Project (RFP #2)  
                         1 lump sum @ \$966,591.50

Item No. 19            Design, Permit and Construct 42-inch Stub Out and Valve for Future  
                         Interconnection (RFP #2)  
                         1 lump sum @ \$633,660.82

Item No. 20            Design, Permit and Construct 24-inch Stub Out for Future NW 13th Street FM  
                         (RFP #2)  
                         1 lump sum @ \$105,665.25

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<b>NET AMOUNT OF THIS CHANGE ORDER</b>	<b>\$1,452,594.03</b>
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<b>ADDITIONAL CONTRACT TIME BEING REQUESTED–</b>	<b>ZERO (0) CALENDAR DAYS</b>
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<b>THE TOTAL AMOUNT OF THIS CHANGE ORDER</b>	<b>\$1,452,594.03</b>
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This Change Order provides for all costs and schedule adjustments associated with completing the work, including materials, labor, equipment, bond, insurance, overhead, profit, impacts, and any and all related items or associated costs incurred or resulting from the items listed above, and is provided in accordance with Article 13 – Changes in the Work of the Contract.

IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first written below.

Murphy Pipeline Contractors, Inc.

Approved: \_\_\_\_\_

Andy Mayer President  
Print Name and Title

CITY OF FORT LAUDERDALE,  
a municipal corporation of the State of  
Florida.

\_\_\_\_\_  
Jodi S. Hart, CPPO, CPPB, MBA  
Manager, Procurement and Contracts  
Chief Procurement Officer, Designee

Date: \_\_\_\_\_  
\*Pursuant to Section 2-179 Code of Ordinances of  
the City of Fort Lauderdale, Florida

cc: Aneisha Daniel, Deputy Director – Public Works  
Omar Castellon, P.E., Chief Engineer  
Krishan Kandial, P.E., Project Manager II  
Financial Administrator  
Project File







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**CHANGE ORDER SUMMARY SHEET**

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ORIGINAL CONTRACT AMOUNT	\$24,420,716.00
COST OF CHANGE ORDERS TO DATE	<b>\$2,040,196.16</b>
COST OF THIS CHANGE ORDER	<b>\$1,452,594.03</b>
TOTAL:	<b>\$27,913,506.20</b>
ORIGINAL CONTRACT TIME	450 calendar days
TIME ADDED TO DATE	90 calendar days
TIME ADDED TO THIS CHANGE ORDER	0 calendar days
TOTAL:	<b>540</b> calendar days

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**SCHEDULE OF CHANGE ORDERS TO DATE**

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C.O.#	DATE	DESCRIPTION	AMOUNT OF COST OR CREDIT
1	07/31/2020	Additional Scope for force main Interconnects and mag-meter installation at Re-pump B.	\$2,040,196.16





# **EXHIBIT A**

## **RFP No. 2**

June 15, 2020

Krishan Kandial  
City of Fort Lauderdale  
Public Works Department (Engineering)  
100 N. Andrews Avenue  
Fort Lauderdale, Florida 33301

**Project: P12566- North Redundant Sewer FM Emergency, Response to #002 - RFP - Existing Pump Stations Connections (Revision 002)**

On February March 3<sup>rd</sup>, 2020, the City of Fort Lauderdale released RFP 002-Existing Pump Stations Connections proposal through their owners representative Hazen and Sawyer. From Murphy Pipeline Contractors (MPC) understanding, we are to provide Design, Engineering, Survey, Materials and Labor/Equipment to properly install items 1-5 listed below. Major construction activities included but not limited to dewatering, installation, and restoration.

**Scope:**

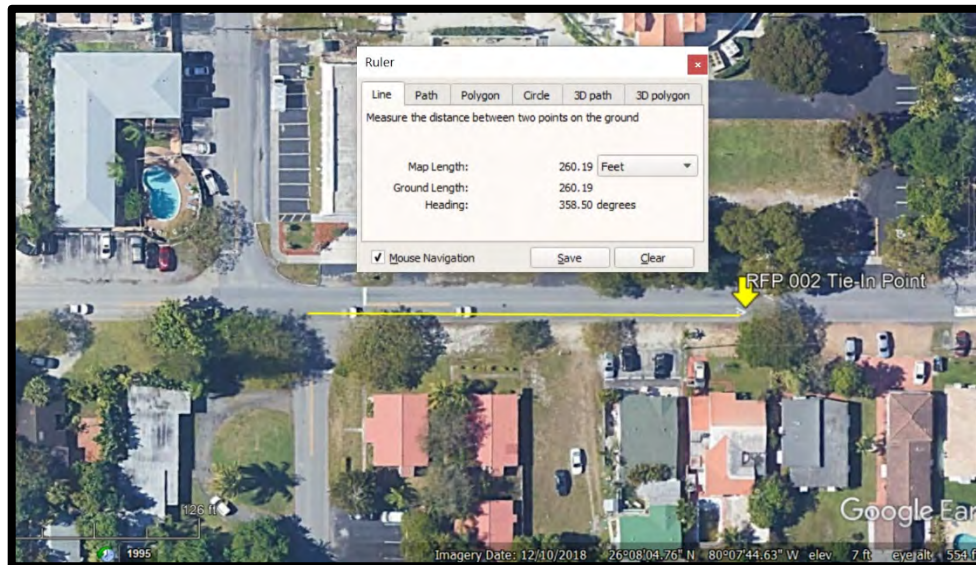
Provide an itemized lump sum and time proposal for the design, materials, labor and equipment for the following proposed modifications to the contract as described below:

1. Extend the southern end of this contract to 260 feet north from the intersection of NE 8th Street and 15th Avenue.
2. Provide a plug valve at the southern end of the new route.
- ~~3. Provide an 18-inch stub out and plug valve on the western side of the new force main near the intersection of NE 9th Street and NE 15th Avenue.~~
4. Provide 42-inch stub-out and plug valve along the route for a future interconnection between the existing 42-inch force main along Middle River Drive and the new force main on Bayview Drive. Design-Builder to propose the area for this stub-out based on existing conflicts. Stub-out and valve shall be far enough to terminate outside of Bayview Drive.
5. Provide a 24-inch stub out and plug valve for a future interconnection with the NW 13th Street force main. This stub-out should be located near where the new force main crosses NW 13th Street (approximately in the proposed open cut area between Segments 2.1 and 2.2).

**Response:**

**Change Order No. 2.1 – RFP Item 1,2 & 3:**

The MPC Team proposes to extend the project limits to 750 LF as indicated in item 1 and showcased in the below aerial.



**Change Order No. 2.2 – RFP Item 4:** The MPC Team reviewed various interconnect options between NE 21<sup>st</sup> Street and Oakland Park Blvd. MPC considered the length of pipe, conflicts and constructability during its analysis. The MPC Team proposes to place the stub-out down NE 21<sup>st</sup> Court.



**Change Order No. 2.3 – RFP Item 5:** The MPC Team proposes the stub-out and valve will be placed 180 LF NE 14<sup>th</sup> Street. The connection orientation will be facing west.



**Cost:**

Total cost submitted **\$1,705,917.57**. Please see attached breakdown and subsequent exhibits for those items that were requested further explanation. Additionally, we have included is the material vendor quotes as backup. (attached)

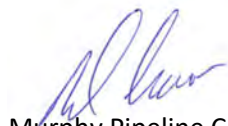
<u>Item No.</u>	<u>Description</u>	<u>Rate</u>	<u>QTY</u>	<u>Unit</u>	<u>Total</u>
2.1	Extend Installation South of NE 8th Street and 15th Avenue	\$966,591.50	1.00	LS	\$966,591.50
2.2	42-Inch Stub Out and Plug Valve for Future Connection between the Existing FM and Middle River Drive and new FM on Bayview Drive	\$633,660.82	1.00	LS	\$633,660.82
2.3	24-Inch Stub Out and Plug Valve at future interconnection with NW 13th Street Force Main	\$105,665.25	1.00	LS	\$105,665.25
<b>Subtotal</b>					<b>\$1,705,917.57</b>

**Schedule Impacts:**

Upon approval of RFP 002, MPC will evaluate the days needed to complete this work and how it impacts our critical path. The time is dependent on material procurement.

Should you have any questions, please do not hesitate to contact me at my office at (954) 842-4771, my cell phone at (954) 254-7898 or send me an electronic message at [RichardC@murphypipelines.com](mailto:RichardC@murphypipelines.com).

Respectfully submitted,



Murphy Pipeline Contractors

Richard Crow

Director of Engineering and Special Projects

CC:

Andy Mayer, MPC;

Mike Jeffery, MPC;

Victor Menocal, MPC

MURPHY PIPELINE CONTRACTORS  
5400 S. UNIVERSITY DRIVE, SUITE 301  
DAVIE, FLORIDA 33328

Phone: (954) 842-4771  
Fax: (954) 254-7898



**PROJECT:** P12566 - North Redundant Sewer FM Emergency

**CHANGE ORDER NO.:** 2.0

**TITLE:** Response to #002 - RFP - Connection at Repump Station B (Revision 002)

<u>Item No.</u>	<u>Description</u>	<u>Rate</u>	<u>QTY</u>	<u>Unit</u>	<u>Total</u>
2.1	Extend Installation South of NE 8th Street and 15th Avenue	\$ 966,591.50	1.00	LS	\$ 966,591.50
2.2	42-Inch Stub Out and Plug Valve for Future Connection between the Existing FM and Middle River Drive and new FM on Bayview Drive	\$ 633,660.82	1.00	LS	\$ 633,660.82
2.3	24-Inch Stub Out and Plug Valve at future interconnection with NW 13th Street Force Main	\$ 105,665.25	1.00	LS	\$ 105,665.25
2.4					
2.5					
2.6					
2.7					
2.8					

**Subtotal \$ 1,705,917.57**

MURPHY PIPELINE CONTRACTORS  
5400 S. UNIVERSITY DRIVE, SUITE 301  
DAVIE, FLORIDA 33328

Phone: (954) 842-4771  
Fax: (954) 254-7898



**PROJECT:** P12566 - North Redundant Sewer FM Emergency

**CHANGE ORDER NO.:** 2.1

**TITLE:** Extend Installation South of NE 8th Street and 15th Avenue

<u>Item No.</u>	<u>Description</u>	<u>Rate</u>	<u>QTY</u>	<u>Unit</u>	<u>Total</u>
<b><u>ADDITIONAL CONTRACTUAL LINE ITEMS</u></b>					
1.0	48" HDPE HDD	\$ 884.00	750	LF	\$ 663,000.00
2.0	42" Plug Valve	\$ 120,172.50	1	EA	\$ 120,172.50
3.0					\$ -
	Engineering Design - 10%				\$ 78,317.25
	General Conditions - 10%				\$ 86,148.98
	Markup - 17%				
	Bond & Insurance - 2%				\$ 18,952.77
					<b>\$ 966,591.50</b>
<b><u>LABOR AND EQUIPMENT</u></b>					
1.0	Crew Cost - Installation of Pipe, Fittings	\$ 10,409.49		Day	\$ -
2.0	Crew Cost - Installation of Pipe, Fittings	\$ 10,409.49		Day	\$ -
3.0	Crew Cost - Testing	\$ 830.00		Day	\$ -
	Engineering Design - 10%				\$ -
	General Conditions - 10%				\$ -
	Markup - 17%				\$ -
	Bond & Insurance - 2%				\$ -
					<b>\$ -</b>
<b><u>MATERIALS</u></b>					
1.0					\$ -
2.0					\$ -
3.0					\$ -
	Engineering Design - 10%				\$ -
	General Conditions - 10%				\$ -
	Markup - 8%				\$ -
	Bond & Insurance - 2%				\$ -
					<b>\$ -</b>
<b><u>SUBCONTRACTORS</u></b>					
1.0			LS	\$	-
2.0			LS	\$	-
3.0			Day	\$	-
	Engineering Design - 10%			\$	-
	General Conditions - 10%			\$	-
	Markup - 17%			\$	-
	Bond & Insurance - 2%			\$	-
				\$	-
<b>TOTAL</b>					<b>\$ 966,591.50</b>



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Phone: (954) 842-4771  
Fax: (954) 254-7898



**PROJECT:** P12566 - North Redundant Sewer FM Emergency

**CHANGE ORDER NO.:** 2.2

**TITLE:** 42-Inch Stub Out and Plug Valve for Future Connection between the Existing FM and Middle River Drive and new FM on Bayview Drive

<u>Item No.</u>	<u>Description</u>	<u>Rate</u>	<u>QTY</u>	<u>Unit</u>	<u>Total</u>
<b>LABOR AND EQUIPMENT</b>					
1.0	Crew Cost - Installation of Pipe, Fittings	\$ 10,409.49	15	Day	\$ 156,142.35
2.0	Crew Cost - Testing	\$ 830.00	5	Day	\$ 4,150.00
3.0	Crew Cost - Restoration	\$ 1,660.00	4	Day	\$ 6,640.00
	Engineering Design - 10%				\$ 16,693.24
	General Conditions - 10%				\$ 18,362.56
	Markup - 17%				\$ 34,337.98
	Bond & Insurance - 2%				\$ 4,726.52
					<b>\$ 241,052.65</b>
<b>MATERIALS</b>					
1.0	Quote from Ferguson	\$ 285,757.87	1	LS	\$ 285,757.87
2.0					\$ -
3.0					\$ -
	Engineering Design - 10%				\$ 28,575.79
	General Conditions - 10%				\$ 31,433.37
	Markup - 8%				\$ 27,661.36
	Bond & Insurance - 2%				\$ 7,468.57
					<b>\$ 380,896.95</b>
<b>SUBCONTRACTORS</b>					
1.0	Surveying	\$ 775.00	1.00	LS	\$ 775.00
2.0	Sod	\$ 0.90	2,700.00	SF	\$ 2,424.60
3.0	Asphalt	\$ 83.62	58.73	TN	\$ 4,910.58
	Engineering Design - 10%				\$ 811.02
	General Conditions - 10%				\$ 892.12
	Markup - 17%				\$ 1,668.26
	Bond & Insurance - 2%				\$ 229.63
					<b>\$ 11,711.22</b>
<b>TOTAL</b>					<b>\$ 633,660.82</b>



14:27:51 JUN 12 2020

Page 1 of 2

FEL-POMPANO BEACH, FL WW #125

Price Quotation

Phone: 954-973-8100

Fax: 954-917-3134

**Bid No:** B440530  
**Bid Date:** 06/12/20  
**Quoted By:** WBB**Cust Phone:** 904-764-6887  
**Terms:** NET 10TH PROX**Customer:** MURPHY PIPELINE CONTRACTOR  
FORT LAUDERDALE EMERGENC  
1876 EVERLEE RD  
JACKSONVILLE, FL 32216**Ship To:** MURPHY PIPELINE CONTRACTOR  
FORT LAUDERDALE EMERGENC  
1876 EVERLEE RD  
JACKSONVILLE, FL 32216**Cust PO#:****Job Name:** RFP2 ITEM 4

Item	Description	Quantity	Net Price	UM	Total
AFR150PP442	42 CL150 P-401 DI FLEX RNG PIPE (figured all restrained) ----	280	473.200	FT	132496.00
M4200600N1BG	42 MJ PLG VLV EL&C W/GEAR	1	66066.600	EA	66066.60
BING5B18S	18-24 CI SCR W VLV BX #18 W/ SWR DOM ----	1	125.000	EA	125.00
SP-MJTP4LA4842	48X42 MJ C153 TEE P401 LINE L/ACC	1	15390.000	EA	15390.00
MJ9P4LA42	42 MJ C153 P-401 90 BEND L/A	1	10555.260	EA	10555.26
MJ4P4LA42	42 MJ C153 P-401 45 BEND L/A	2	5890.855	EA	11781.71
MJ1P4LA42	42 MJ C153 P-401 11-1/4 BEND L/A	2	4534.600	EA	9069.20
SP-MJTCAPP4LA42K	42X2 MJ C153 P401 TAP CAP ----	1	2278.700	EA	2278.70
SP-DR135IMJAWA48	48 HDPE IPS 13.5 MJ ADPT W/ ACC ----	2	8000.000	EA	16000.00
SSLDEP42	42 DI MJ WDG REST GLND PK *ONELOK	14	1571.100	EA	21995.40

**Net Total:** \$285757.87  
**Tax:** \$17195.47  
**Freight:** \$0.00  
**Total:** \$302953.34**HOW ARE WE DOING? WE WANT YOUR FEEDBACK!**Scan the QR code or use the link below to  
complete a survey about your bids:<https://survey.medallia.com/?bidsorder&fc=125&on=61249>

Fax: 954-917-3134

14:27:51 JUN 12 2020

**Reference No:** B440530

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>  
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with \*NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.



**HOW ARE WE DOING? WE WANT YOUR FEEDBACK!**

Scan the QR code or use the link below to  
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=125&on=61249>

MURPHY PIPELINE CONTRACTORS  
5400 S. UNIVERSITY DRIVE, SUITE 301  
DAVIE, FLORIDA 33328

Phone: (954) 842-4771  
Fax: (954) 254-7898



**PROJECT:** P12566 - North Redundant Sewer FM Emergency

**CHANGE ORDER NO.:** 2.3

**TITLE:** 24-Inch Stub Out and Plug Valve at future interconnection with NW 13th Street Force Main

<u>Item No.</u>	<u>Description</u>	<u>Rate</u>	<u>QTY</u>	<u>Unit</u>	<u>Total</u>
<b><u>LABOR AND EQUIPMENT</u></b>					
1.0	Crew Cost - Installation of Pipe, Fittings	\$ 10,409.49	4	Day	\$ 41,637.96
2.0	Crew Cost - Testing	\$ 830.00	0	Day	\$ -
3.0	Crew Cost - Restoration	\$ 1,660.00	0	Day	\$ -
	Engineering Design - 10%				\$ 4,163.80
	General Conditions - 10%				\$ 4,580.18
	Markup - 17%				\$ 8,564.93
	Bond & Insurance - 2%				\$ 1,178.94
					<b>\$ 60,125.80</b>
<b><u>MATERIALS</u></b>					
1.0	Quote from Ferguson	\$ 30,791.90	1	LS	\$ 30,791.90
2.0					\$ -
3.0					\$ -
	Engineering Design - 10%				\$ 3,079.19
	General Conditions - 10%				\$ 3,387.11
	Markup - 8%				\$ 3,725.82
	Bond & Insurance - 2%				\$ 819.68
					<b>\$ 41,803.70</b>
<b><u>SUBCONTRACTORS</u></b>					
1.0	Surveying	\$ 1,500.00	1.00	LS	\$ 1,500.00
2.0	Sod	\$ 0.90	-	SF	\$ -
3.0	Asphalt	\$ 83.62	13.00	TN	\$ 1,087.06
	Engineering Design - 10%				\$ 258.71
	General Conditions - 10%				\$ 284.58
	Markup - 17%				\$ 532.16
	Bond & Insurance - 2%				\$ 73.25
					<b>\$ 3,735.75</b>
<b>TOTAL</b>					<b>\$ 105,665.25</b>



FEL-POMPANO BEACH WW #125  
1950 NW 18TH STREET  
POMPANO BEACH, FL 33069-1394

Phone: 954-973-8100  
Fax: 954-917-3134

Deliver To:  
From: Blake Bowmaster  
Comments:

13:17:10 MAR 04 2020

Page 1 of 1

FEL-POMPANO BEACH, FL WW #125

Price Quotation  
Phone: 954-973-8100  
Fax: 954-917-3134

Bid No: B430676  
Bid Date: 03/04/20  
Quoted By: WBB

Cust Phone: 904-764-6887  
Terms: CASH ON DEMAND

Customer: MURPHY PIPELINE CONTRACTOR  
FORT LAUDERDALE EMERGENC  
1876 EVERLEE RD  
JACKSONVILLE, FL 32216

Ship To: MURPHY PIPELINE CONTRACTOR  
FORT LAUDERDALE EMERGENC  
1876 EVERLEE RD  
JACKSONVILLE, FL 32216

Cust PO#:

Job Name: 42X24 STUB OUT

Item	Description	Quantity	Net Price	UM	Total
	42X24 CONNECTION				
SP-MJTP4LA4224	42X24 MJ TEE P401 LINED L/ACC	1	7290.900	EA	7290.90
SP-MJPV24GNUT	24 MJ PLUG VLV EPOX LINED W/GEAR	1	15822.900	EA	15822.90
BING5B18S	18-24 CI SCR W VLV BX #18 W/ SWR DOM	1	125.000	EA	125.00
AFT250PP424	24 CL250 P-401 DI FASTITE PIPE	60	95.400	FT	5724.00
SSGDPK42	42 DI MJ REST 3000 SER W/A	2	1225.000	EA	2450.00
SSGDP24AP	24 DI REST SER 3000 W/A	4	365.700	EA	1462.80
MJSCAPP4LA24	24 MJ C153 P-401 SLD CAP L/A	1	1732.300	EA	1732.30
	SUBTOTAL				34607.90
Net Total:					34607.90
Tax:					\$2126.47
Freight:					\$0.00
Total:					\$36734.37

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

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Govt Buyers: All items are open market unless noted otherwise.

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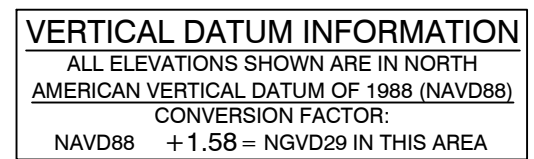
Scan the QR code or use the link below to  
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=125&on=61249>

CAM #20-0635  
Exhibit #1  
Page 16 of 24







- ## PROGRESS SET



SCALE: 1"=20' HORZ | 1"=8' VERT

CITY PROJECT # 12566  
REDUNDANT SEWER FORCE MAIN  
PROJECT - NORTH  
FORCE MAIN PLAN AND PROFILE

DRAWING #	SHT #
FM-2803	
TOTAL:	92
CAD FILE:	
566-MULTI-FORC-028	
DRAWING FILE NO.	
4-XXX-XX	





# **EXHIBIT B**

## **RFP No. 4**

MURPHY PIPELINE CONTRACTORS  
5400 S. UNIVERSITY DRIVE, SUITE 301  
DAVIE, FLORIDA 33328

Phone: (954) 842-4771  
Fax: (954) 254-7898



**PROJECT:** P12566 - North Redundant Sewer FM Emergency

**CHANGE ORDER NO.:** 4.0

**TITLE:** Credit for the Force Main at the Golf Course

<u>Item No.</u>	<u>Description</u>	<u>Rate</u>	<u>QTY</u>	<u>Unit</u>	<u>Total</u>
3.1	Extension of 42-Inch Pipeline - Line Item	\$ 884.00	(507.00)	LS	(\$448,188.00)
3.2	Demo Existing Pipe and Structure	\$ 194,864.46	1.00	LS	\$ 194,864.46

**Subtotal** \$ (253,323.54)

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 Fax: (954) 254-7898



**PROJECT:** P12566 - North Redundant Sewer FM Emergency

**CHANGE ORDER NO.:** 4.1

**TITLE:** Credit for the Force Main at the Golf Course - Additional Cost Incurred

<u>Item No.</u>	<u>Description</u>	<u>Rate</u>	<u>QTY</u>	<u>Unit</u>	<u>Total</u>
<b><u>LABOR AND EQUIPMENT</u></b>					
1.0	Crew Cost - Installation of Pipe	\$ 10,409.49	2	Day	\$ 20,818.98
2.0	Project Manager Coordination and Review Time	\$ 85.00	10	Hr	\$ 850.00
	Engineering Design - 10%				\$ -
	General Conditions - 10%				\$ -
	Markup - 17%				\$ 3,683.73
	Bond & Insurance - 2%				\$ -
					<b>\$ 25,352.71</b>
<b><u>MATERIALS</u></b>					
1.0					\$ -
2.0					\$ -
	Engineering Design - 10%				\$ -
	General Conditions - 10%				\$ -
	Markup - 8%				\$ -
	Bond & Insurance - 2%				\$ -
					<b>\$ -</b>
<b><u>SUBCONTRACTORS</u></b>					
1.0	Additional MOT (Design)	\$750.00	1.00	EACH	\$ 750.00
2.0	Electrical Subcontractor - Support FPL Pole at Golf Course	\$ 2,200.00	15.00	Day	\$ 33,000.00
3.0	Survey Layout	\$ 1,500.00	1.00	LS	\$ 1,500.00
4.0	CMA Cost - Coordination, Exhibits, Site Visits, Re-Design of 1.4 & 1.5 bore along Bayview and Bore across the golf course	\$ 35,000.00	1.00	LS	\$ 35,000.00
5.0	Re-Permitting of Revised Bores, and Calculations	\$ 7,500.00	1.00	LS	\$ 7,500.00
6.0	Utility Designation and Test holes	\$ 1,000.00	1.00	LS	\$ 1,000.00
7.0	Additional Survey of Northern Pit and Bore Area	\$ 6,000.00	1.00	LS	\$ 6,000.00
8.0	Sketch and Legal Description	\$ 4,500.00	1.00	LS	\$ 4,500.00
9.0	Soil Injections	\$ 53,850.00	1	LS	\$ 53,850.00
10.0	MOT Rental for Bayview Closure (Rental & Setup)	\$ 1,781.84	1	LS	\$ 1,781.84
	Engineering Design - 10%				\$ -
	General Conditions - 10%				\$ -
	Markup - 17%				\$ 24,629.91
	Bond & Insurance - 2%				\$ -
					<b>\$ 169,511.75</b>
<b>TOTAL</b>					<b>\$ 194,864.46</b>





# **EXHIBIT C**

## **REVISED SCHEDULE OF VALUES**

## REVISED SCHEDULE OF VALUES

<b>CONTRACT ITEMS</b>					
<b>ORIGINAL CONTRACT ITEMS</b>					
Item no.	Description of Item	Unit Qty.	Unit	Cost per unit.	Total cost of item.
	<u>DESIGN</u>				
1	Phase 1	1	LS	\$385,000.00	\$385,000.00
2	Phase 2	1	LS	\$375,000.00	\$375,000.00
3	Phase 3	1	LS	\$428,000.00	\$428,000.00
4	Construction Administration	1	LS	\$118,000.00	\$118,000.00
	<u>CONSTRUCTION</u>				
5	Mobilization/Demobilization	1	LS	\$1,221,035.80	\$1,221,035.80
6	General Conditions	1	LS	\$250,000.00	\$250,000.00
7	42" Open Cut	4170	LF	\$938.00	\$3,911,460.00
8	42" HDD	17670	LF	\$884.00	\$15,620,280.00
9	42" Plug Valve	8	EA	\$120,172.50	\$961,380.00
10	North End of Project Connection	1	EA	\$34,560.20	\$34,560.20
11	Milling & Resurfacing	13800	SY	\$20.00	\$276,000.00
12	MOT	1	LS	\$300,000.00	\$300,000.00
13	ARV	10	EA	\$29,000.00	\$290,000.00
14	Bond	1	LS	\$250,000.00	\$250,000.00
<b>Original Contract Total</b>					<b>\$24,420,716.00</b>
<b>CHANGE ORDER No. 1 CONTRACT ITEMS</b>					
15	Design, Permit and Construct 24-inch Stub Out for Future PS B-4 FM (RFP #1)	1	LS	\$225,151.40	\$225,151.40
16	Design, Permit and Construct Connection to PS-B-2 FM (RFP #1)	1	LS	\$89,589.36	\$89,589.36
17	Design, Permit and Construct Meter Vault and Bypass Piping at Repump Station B (RFP #3)	1	LS	\$1,725,455.40	\$1,725,455.40
<b>Change Order 1 Contract Total</b>					<b>\$2,040,196.16</b>
<b>CHANGE ORDER No. 2 CONTRACT ITEMS</b>					
8	42" HDD – Deduction	286.57	LF	\$884.00	(\$253,323.54)
18	Design, Permit and Construct Southern Extension of Project (RFP #2)	1	LS	\$966,591.50	\$966,591.50
19	Design, Permit and Construct 42-inch Stub Out and Valve for Future Interconnection (RFP #2)	1	LS	\$633,660.80	\$633,660.82
20	Design, Permit and Construct 24-inch Stub Out for Future NW 13 <sup>th</sup> Street FM (RFP #2)	1	LS	\$105,665.25	\$105,665.25
<b>Change Order 1 Contract Total</b>					<b>\$1,452,594.03</b>
<b>Revised Contract Total</b>					<b>\$27,913,506.19</b>



# **EXHIBIT D**

# **MAP**

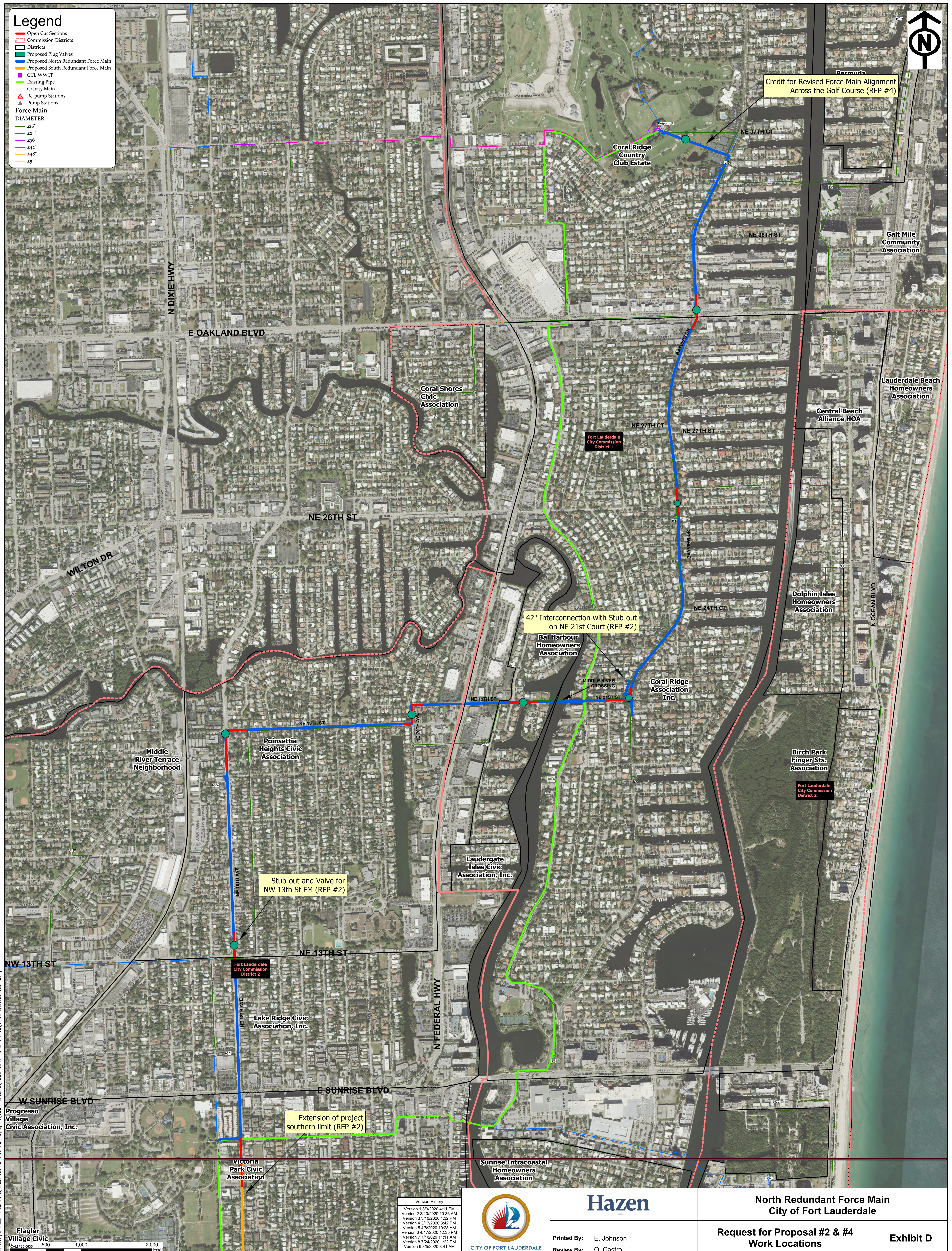


**Legend**

- Open Cut Sections
- Commission Districts
- Districts
- Proposed Plug Valves
- Proposed North Redundant Force Main
- Proposed South Redundant Force Main
- GTL WWTP
- Existing Pipe
- Gravity Main
- Re-pump Stations
- Pump Stations

**Force Main DIAMETER**

- ≤16"
- ≤24"
- ≤36"
- ≤42"
- ≤48"
- ≤54"



Map Project Number: 43164-005  
Print date: 8/5/2020 8:43 AM By: EJohnson  
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Version History

Version 1	3/9/2020 4:11 PM
Version 2	3/10/2020 10:36 AM
Version 3	3/10/2020 4:32 PM
Version 4	3/17/2020 3:42 PM
Version 5	4/6/2020 10:26 AM
Version 6	4/17/2020 12:35 PM
Version 7	7/1/2020 11:11 AM
Version 8	7/24/2020 1:22 PM
Version 9	8/5/2020 8:41 AM



**Hazen**

Printed By: E. Johnson  
Review By: O. Castro

**North Redundant Force Main**  
**City of Fort Lauderdale**

**Request for Proposal #2 & #4**  
**Work Locations**

**Exhibit D**