

Document 00941
CHANGE ORDER No. 13

PROJECT: Force main Renewal and Replacement for Stroud, Bayfield, Bretshire, Forest Shores and Woodland Ridge Lift Stations (20MEM25)

CONTRACT No.: 4600015882 PROJECT No.: R-000035-006A-4 (R-000035-006B)

TO: Resicom, Inc.
5909 West Loop South, Suite 560
Contractor and Bellaire, TX 77401
Address for Written Notice

1.01 DESCRIPTION OF CHANGES

CONTRACT CHANGE	
Amount	Time
\$85,043.07	18 Days

ITEM 1 SCOPE: Exploratory excavations to locate the existing 14-inch force main along Galveston Road and stand by cost for equipment.

JUSTIFICATION: The Construction plans call for the installation of discharge manhole, blow off manholes, ARV manholes, and plug valve manholes at Sta. 7+12.07, Sta. 20+05.80, Sta. 25+40.75, Sta. 38+05.80, Sta. 46+42.17, Sta. 56+05.88, Sta. 57+13.97, and Sta. 74+19.37 along Galveston Road at Bayfield Lift Station. During critical locates, the Contractor discovered 4-inch fiber optics conduit running parallel to the existing 14-inch force main. The Contractor submitted Request for Information (RFI) No. 41 requesting guidance.

The City met with the Contractor and Engineer of Records (EOR) to evaluate contractor's request. The Project team recommended performing additional exploratory excavations to identify the existing 14-inch force main alignment and seek an alternative installation method. The EOR reviewed Contractor's findings from exploratory excavation and recommended offsetting the manholes. Work Change Directive (WCD) No. 06 was executed to expedite the work and maintain schedule of this work. The scope of this additional work includes cost of labor, material, and equipment for exploratory excavation and additional compensation for equipment idle time and cost of additional excavations for manholes relocations. The Project Manager reviewed the proposal and negotiated the scope of additional work based on the man-hours and equipment confirmed with the daily report.

The City recommends adding this scope of work to the contract. An additional eighteen (18) calendar days are required to be added to the contract time to perform this work.

00941-1



 Contractor Initial

PROJECT No.: R-000035-006A-4 (R-000035-006B)

CHANGE ORDER No. 13

Unit Item No	Unit Item Description	Unit	Add/Deduct Qty	Unit Price	Add/Deduct Amount
194	Exploratory excavation of existing force main and additional excavation for proposed manholes along Galveston Road	LS	1.00	\$51,550.58	\$51,550.58
195	Stand-by costs for equipment and shoring box	MTH	1.00	\$33,492.49	\$33,492.49

ITEM 2 SCOPE: Offset the proposed manholes at Sta. 7+12.07, Sta. 20+05.80, Sta. 25+40.75, Sta. 38+05.80, Sta. 46+42.17, Sta. 56+05.88, Sta. 57+13.97, and Sta. 74+19.37 along Galveston Road at Bayfield Lift Station. \$362,795.77 52 Days

JUSTIFICATION: The Construction plans call for the installation of discharge manhole, blow off manholes, ARV manholes, and plug valve manholes at Sta. 7+12.07, Sta. 20+05.80, Sta. 25+40.75, Sta. 38+05.80, Sta. 46+42.17, Sta. 56+05.88, Sta. 57+13.97, and Sta. 74+19.37 along Galveston Road at Bayfield Lift Station. During critical locates, the Contractor discovered 4-inch fiber optics conduit running parallel to the existing 14-inch force main. The existing force main is located about 7 to 12 feet west of the location called out in the construction drawings. The proposed 6-foot and 8-foot manholes cannot fit at the existing force main location due to obstruction caused by fiber optics conduits, storm culverts, water line, and other utility boxes/pedestals. The Contractor submitted Request for Information (RFI) No. 42 requesting guidance.

The Engineer of Record (EOR) reviewed the issue and recommended offsetting the manholes to avoid the interference with utility lines along the existing force main. Wastewater Operations (WWO) reviewed and concurred with EOR recommendations. Request for Proposal (RFP) No. 07 was issued to the Contractor for the work associated with this recommendation. Work Change Directive (WCD) No. 06 was issued to expedite the work and maintain the project schedule. The scope of this additional work includes installation of 14-inch PVC pipe by open cut with 45-degree fittings; building access bridge to install CIPP in the existing force main; and site restorations. The Project Manager reviewed the proposal and negotiated the scope of additional work based on the man-hours and equipment confirmed with the daily report.

The City recommends adding this scope of work to the contract. An additional fifty-two (52) calendar days are required to be added to the contract time to perform this work.

Unit Item No	Unit Item Description	Unit	Add/Deduct Qty	Unit Price
--------------	-----------------------	------	----------------	------------

00941-2

Add/Deduct Amounts DS
Rjm [Ma]
 Contractor Initial

PROJECT No.: R-000035-006A-4 (R-000035-006B)

CHANGE ORDER No. 13

41	Site restoration	LF	2000.00	\$10.00	\$20,000.00
59	Remove and dispose of existing manholes	EA	1.00	\$600.00	\$600.00
191	14-inch diameter sanitary force main with fittings, by open cut including bypass	LF	369.00	\$626.97	\$231,351.93
196	Build access bridge for truck to install CIPP along Galveston Road	EA	12.00	\$6,310.47	\$75,725.64
197	Procure 8-foot diameter corrosion-resistant manhole with valves and fittings	EA	1.00	\$33,669.83	\$33,669.83
198	Delivery fee of non-used material to surplus location	EA	1.00	\$1,448.37	\$1,448.37

ITEM 3 SCOPE: Install 16-inch Ductile Iron Pipe (DIP) gravity sanitary sewer line by open cut. \$198,598.37 50 Days

JUSTIFICATION: The Construction plans call for the installation of 15-inch sanitary sewer line from a force main discharge manhole at Sta. 74+19 to an existing discharge manhole located on the west side of Galveston Road using open cut method. Due to the proximity of 42-inch water line, 6-inch gas line, 8-inch water line, and 4-inch fiber optics cable the Contractor indicated that installation of the proposed 15-inch sanitary sewer line by open cut at 18 feet depth can endanger the structural integrity of 42-inch water line. The Contractor submitted Request for Information (RFI) No. 44 requesting guidance.

The Engineer of Record (EOR) reviewed the issue and recommended to install 16-inch sanitary sewer line over 42-inch water line by open cut. Drinking Water Operations and Wastewater Operations reviewed proposed crossing at existing 42-inch water line crossing and concurred with the recommendation. Request for Proposal (RFP) No. 08 was issued to the Contractor for the work associated with this recommendation. Work Change Directive (WCD) No. 07 was issued to expedite the work and maintain the project schedule. The additional scope includes locating utility lines and conducting survey, installation of 16-inch Ductile Iron Pipe (DIP) gravity sanitary sewer line, installation of cement stabilized sand footings, re-routing the existing 8-inch water line, relocating a fire hydrant, and compensation for additional six weeks of bypass system. The Project Manager reviewed the proposal and negotiated the additional scope.

The City recommends adding this scope of work to the contract. An additional fifty (50) calendar days are required to be added to the contract time to perform this work.

Unit Item No	Unit Item Description	Unit	Add/Deduct Qty	Unit Price	Add/Deduct Amount
--------------	-----------------------	------	----------------	------------	-------------------

00941-3

DS [Rjm] DS [Mll]

Contractor Initial

PROJECT No.: R-000035-006A-4 (R-000035-006B)

CHANGE ORDER No. 13

199	16-inch diameter DIP sanitary sewer with fittings, cement stabilized footings, and concrete protection, by open cut	LF	80.00	\$980.33	\$78,426.40
200	8-inch water line with fittings, by open cut	LF	90.00	\$208.71	\$18,783.90
201	Procure and install fire hydrant	EA	1.00	\$7,487.38	\$7,487.38
202	Stand-by costs for bypass	MTH	1.50	\$33,597.01	\$50,395.52
204	Stand-by costs for equipment, traffic control, matt, and shoring box.	MTH	1.00	\$17,647.59	\$17,647.59
205	Core a hole in precast concrete manhole at Sta. 74+27	EA	2.00	\$1,752.99	\$3,505.98
206	Delivery fee of non-used material to surplus location	EA	1.00	\$1,810.46	\$1,810.46
207	Remove and Dispose 8-inch water line	LF	20.00	\$16.74	\$334.80
208	Procure 8-foot diameter manhole extra depth concrete riser material	VF	9.00	\$365.20	\$3,286.80
209	Install 8-inch water line wet connection	EA	2.00	\$4,979.28	\$9,958.56
210	Install 8-inch gate valve and box	EA	1.00	\$4,516.18	\$4,516.18
211	Install 6-inch gate valve and box	EA	1.00	\$2,444.80	\$2,444.80

ITEM 4 SCOPE: Install 18-inch diameter sanitary force main, by horizontal directional drilling. \$241,198.24 0 Days

JUSTIFICATION: The Construction plans call for the installation of 18-inch diameter sanitary force main line from Sta. 0+78.5 to Sta. 6+01.05 along BW 8 South bound feeder road at Stroud Lift Station. During construction, it was noticed that there was no pay item on Document 0410B for 18-inch diameter sanitary force main, by horizontal directional drilling. The Contractor submitted Request for Information (RFI) No. 52 requesting guidance.

The Engineer of Record (EOR) reviewed the issue and confirmed that the pay item for 18-inch diameter sanitary force main, by horizontal directional drilling was inadvertently not included in the bid form, Document 0410B and recommended to create a pay item for 18-inch diameter sanitary force main, by horizontal directional drilling. Request for Proposal (RFP) No. 09 was issued to the Contractor for the work associated with this recommendation. The scope of this additional work includes installation of 18-inch diameter sanitary force main, horizontal directional drilling. The Project Manager reviewed the proposal and negotiated the additional scope.

The City recommends adding this scope of work to the contract. No additional day is required to be added to the contract time to perform this work.

Unit Item No	Unit Item Description	Unit	Add/Deduct Qty	Unit Price	Add/Deduct Amount
212	Install 18-inch diameter sanitary force main, by horizontal directional drilling.	LF	655.43	\$368.00	\$241,198.24

00941-4

DS [Rjm] [Mll]

Contractor Initial

PROJECT No.: R-000035-006A-4 (R-000035-006B)

CHANGE ORDER No. 13

TOTALS: \$887,635.45 120 Days

1.02 ACCEPTANCE BY CONTRACTOR

Contractor agrees to perform change(s) included in this Change Order for the price and time indicated. The prices for changes include all costs associated with this Change Order.

DocuSigned by:
Mashid Alimadi
9C3C85F117374C4... VP

Contractor Signature and Title

10/14/2021

Date

1.03 ACCEPTANCE BY THE CITY

DocuSigned by:
Shahidur Rahman 10/14/2021
CA6DF62C DFA748C...

Project Manager Date

Deputy Director - Required for COs to Council Date

DocuSigned by:
Markos E. Mengesha 10/14/2021
33EBDAFAE104481...

Managing Engineer Date

Director - Required for COs to Council Date

DocuSigned by:
Ronald J. Masch 10/14/2021
0FD0AB1383414D8...

City Engineer Date

Mayor - Required for COs to Council Date

EXECUTIVE SUMMARY

1.01 CONTRACT PRICE SUMMARY

	DOLLAR AMOUNT	PERCENT
A. Original Contract Price	\$11,337,434.00	100.00%
B. Previous Change Orders	\$498,566.89	4.40%
C. This Change Order	\$887,635.45	7.83%
D. Contract Price	\$12,723,636.34	112.23%

1.02 CONTRACT TIME SUMMARY

	DURATION	COMPLETION DATE
A. Original Contract Time	450 Days	Friday, July 9, 2021
B. Previous Change Orders	79 Days	Sunday, September 26, 2021
C. This Change Order	120 Days	Monday, January 24, 2022
D. Contract Time	649 Days	Monday, January 24, 2022

PROJECT No.: R-000035-006A-4 (R-000035-006B)

CHANGE ORDER No. 13

1.03 TOTAL VALUE OF INCREASES OUTSIDE OF GENERAL SCOPE OF WORK

A. Including this Change Order, the following table is provided to track conditions related to Paragraph 7.1.2.3 of Document 00700 - General Conditions.

<u>CHANGE ORDER No.</u>	<u>AMOUNT ADDED</u>	<u>PERCENT OF ORIGINAL CONTRACT PRICE</u>
1	\$7,831.25	0.07%
2	\$32,378.76	0.29%
3	\$24,540.38	0.22%
4	\$186,867.74	1.65%
5	\$(106,476.50)	-0.94%
6	\$29,980.00	0.26%
7	\$5,506.20	0.05%
8	\$48,832.22	0.43%
9	\$299,940.91	2.65%
10	\$0.00	0.00%
11	\$(58,001.07)	-0.51%
12	\$27,167.00	0.24%
13	\$887,635.45	7.83%
<hr/>		
TOTALS	\$1,386,202.34	12.23%