

**BUSINESS FOR THE CITY COUNCIL  
OF THE  
CITY OF ANGLETON**

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**SUBJECT:**

Change Order # 2 – Western Avenue Sewer

SUBMITTED BY: Herbert S. Smith, P.E.

DATE SUBMITTED: 19 February 2009 FOR THE AGENDA OF: 24 February 2009

Expenditure Required:           None   Change Order is a net deduction

Available Funding:               NA

Attachments: CO # 2, Memo from Design Engineer with map

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**SUMMARY STATEMENT:**

Change Order # 2 addresses wet sand construction, and a light at the lift station. Additionally, Change Order # 2 provides a reconciliation of additions and deductions to the quantities as installed. Finally, in order to remain at or below the contract amount, Change Order # 2 authorizes the removal of certain sewer items, the purchase of the materials from the Contractor for installation by separate contract when funds become available. This Change Order is a net deduction of \$8,283.15 and with the net deduction of \$3,400.50 from Change Order # 1, the total project is \$11,683.65 below the Contract Amount approved by Council.

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**Recommendation: Approve the change order**

**CHANGE ORDER**

No. 2

PROJECT: Sanitary Sewer Rehabilitation in  
Shady Acres Addition

DATE OF ISSUANCE: February 18, 2009

OWNER: City of Angleton  
121 S. Velasco  
Address) Angleton, Texas 77515

OWNER's Project No. \_\_\_\_\_  
ENGINEER:

CONTRACTOR: Matula & Matula Constr., Inc.

ENGINEER's Project No. 9418

You are directed to make the following changes in the Contract Documents.

We added a security light at the Lift Station, Added quantities to the Contract for wet sand construction and adjusted Contract to final as-built quantities

Purpose of Change Order: Adjust Contract to As-Built Quantities and Reimburse Contractor for added Scope of Work

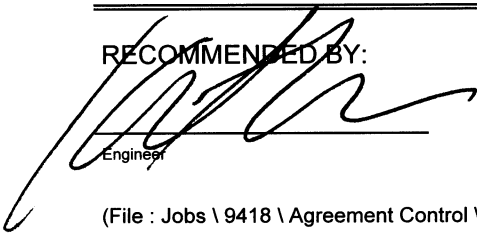
Attachments: Engineer's MEMO for CO No. 2, Map Exhibit, Contract Overages and Underages, Extra Work Overages and Underages, Contractor's Quote for Material On Hand and Contractor Quote for Security Light at Lift Station

CHANGE IN CONTRACT PRICE:		CHANGE IN CONTRACT TIME:	
Original Contract Price	\$483,385.25	Original Contract Time	120 Working Days
			days or date
Contracted Extra Work Items Charged to Date	-\$3,400.50	Net change from previous Change Orders	0 Working Days
Contract Price prior to this Change Order	\$479,984.75	Contract time Prior to this Change Order	120 Working Days
			days or date
Net increase of this Change Order	-\$8,283.15	Net Increase (Decrease) of this Change Order	0 Working Days
Contract Price with all approved Change Orders	\$471,701.60	Contract Time with all approved Change Orders	120 Working Days

RECOMMENDED BY:

APPROVED BY:

APPROVED BY:



Engineer

Owner

Contractor

# MEMO:

To:            Angleton City Council  
                Greg Smith - City Manager  
                Robert Heinemeyer - Public Works Director

From:         Doug Roesler, P.E.  
                Project Engineer

Date:         February 19, 2009

Subject :     Project Close Out for Shady Acres Sewer Replacement (Western Avenue)  
                Includes Change Order No. 2

The Contract between the City of Angleton and Matula & Matula Construction was for a Contract Amount of \$483,385.25. Also included in the Contract were Extra Work items for wet trench construction which included special bedding, well pointing, etc. The values of these items were not included in the base Contract Amount. As construction progressed, it became necessary to well point for the installation of the lift station wet well and also to well point for the installation of 610 feet of 10-inch sanitary sewer. The cost of these Extra Work items was \$58,766.00.

To keep the project within budget, after installation of the Extra Work items, we removed 1,765 feet of 8-inch sewer replacement from the project. I have attached a map which highlights the area of Extra Work and the are/length of sewer replacement removed from the project. Matula & Matula had already purchased the material for the installation of the replacement of the 1,750 feet of 8-inch. Change Order no. 2 includes the purchase of this material. When funds are available, the City will obtain construction quotes to install the material and complete the project.

Following is a summary table of the Close Out and Change Order No. 2

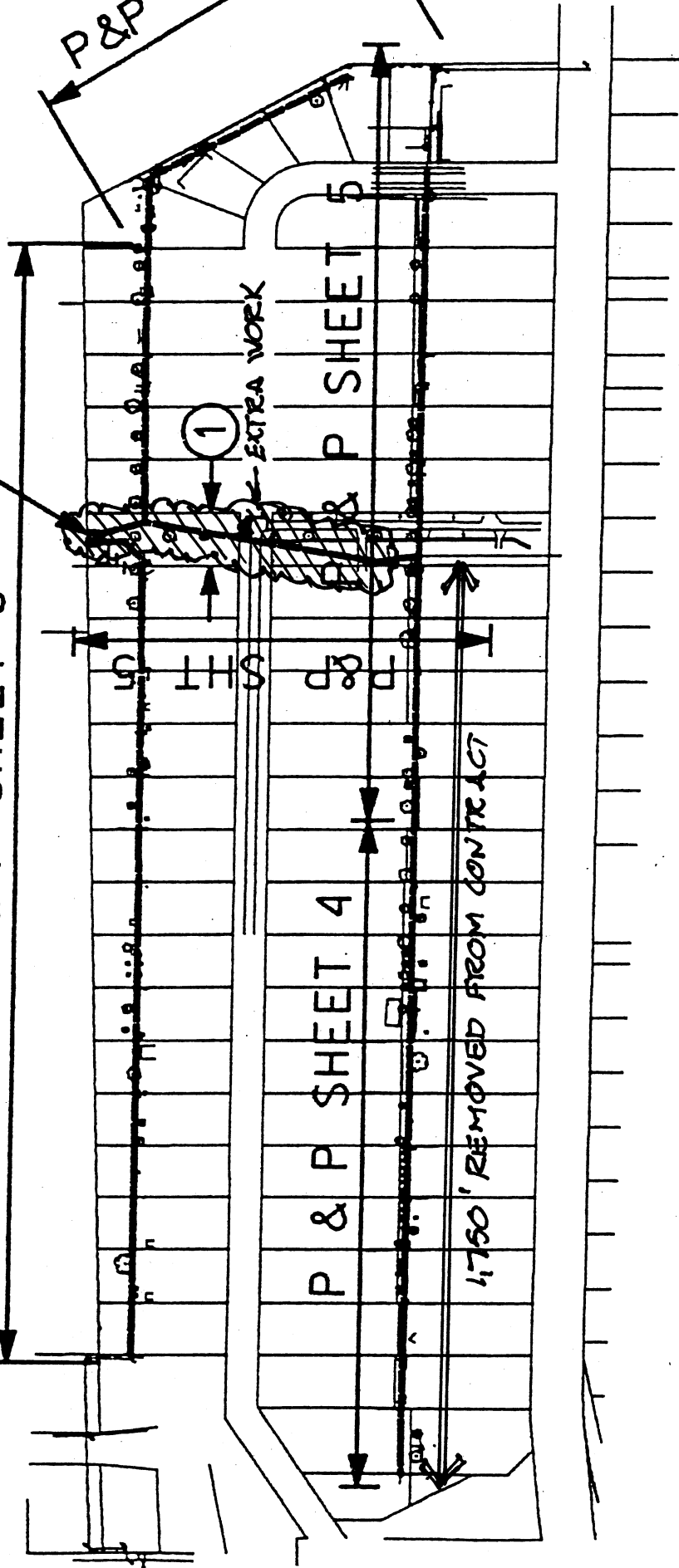
Original Contract Amount for Work	\$483,385.25	
Ass-Built Amount for Work		\$387,458.14
Extra Work Items Utilized		\$58,766.00
Purchase of Material On Hand		\$23,502.46
Add Security Light at Lift Station		\$1,975.00
Totals	\$483,385.25	\$471,701.60
Remaining Funds in Contract		\$11,683.65

① TEXAS-NEW MEXICO POWER 60' WIDE  
POWER TRANSMISSION EASEMENT

PROP.  
LIFT STATION

P & P SHEET 3

P&P SHT 4



SHEET LAYOUT

SANITARY SEWER REPLACEMENT  
SHADY ACRES ADDITION  
SHADY ACRES ADDITION FINAL AS-BUILT QUANTITIES - OVERAGES AND UNDERAGES

Item	Spec	Description	Unit	Contract Quantity	As-Built Quantity	Unit Price	Extension	Overage/Underage	Explanation Below
1	1	Clearing Right of Way	AC.	2,496	2,054	\$2,100.00	\$4,314.29	0.442	A
2	12	Remove Existing Base and Surfacing	S.Y.	18.7	0	\$7.50	\$0.00	18.7	B
3	14	Remove Old Concrete (Sidewalk)	S.Y.	2.67	2.67	\$10.00	\$26.70		
4	33	Flexible Base (6" Alley & Driveways)	S.Y.	6.7	6.7	\$15.00	\$100.50		
5	33	Flexible Base (10" Lift Sta. Access Dr.)	S.Y.	233	0	\$19.25	\$0.00	233	B
6	51	Prime Coat (0.25 Gal/SY)	GAL.	60	0	\$2.50	\$0.00	60	B
7	60	HMAC - (1-1/2" Driveways & Access Road)	S.Y.	239.7	9	\$14.00	\$126.00	230.7	B
8	72	Sawed Joints (for Conc./HMAC Rem.)	L.F.	28	20	\$6.00	\$120.00	8	C
9	74	Concrete Sidewalk	S.Y.	2.67	2.67	\$45.00	\$120.15		
10	86	Remove Existing Lift Station	EA.	1	1	\$1,800.00	\$1,800.00		
11	86	Remove Existing Manhole	EA.	15	11	\$500.00	\$5,500.00	4	A
12	86	Sanitary Sewer Manhole	EA.	18	14	\$2,100.00	\$29,400.00	4	A
13	86	Extra Depth Manhole	L.F.	24.08	19.38	\$135.00	\$2,616.30	4.7	A
14	90	8" Sanitary Sewer (Under 5' Depth)	L.F.	600	0	\$25.10	\$0.00	600	A
15	90	8" Sanitary Sewer (5'-7' Depth)	L.F.	1903	1073	\$29.00	\$31,117.00	830	A
16	90	8" Sanitary Sewer (5'-7' Depth)(U.P.)	L.F.	10	0	\$35.50	\$0.00	10	C
17	90	8" Sanitary Sewer (7'-9' Depth)	L.F.	280	0	\$33.00	\$0.00	280	A
18	90	10" Sanitary Sewer (Under 5' Depth)	L.F.	837	837	\$27.50	\$23,017.50		
19	90	10" Sanitary Sewer (5'-7' Depth)	L.F.	589	589	\$31.10	\$18,317.90		
20	90	10" Sanitary Sewer (9'-11' Depth)	L.F.	559	559	\$38.20	\$21,353.80		
21	90	10" Sanitary Sewer (9'-11' Depth)(U.P.)	L.F.	34	34	\$49.50	\$1,683.00		
22	90	10" Sanitary Sewer (11'-13' Depth)	L.F.	356	476	\$47.00	\$22,372.00	-120	B
23	90	10" Sanitary Sewer (11'-13' Depth)(U.P.)	L.F.	18	18	\$56.00	\$1,008.00		
24	90	3" Sanitary Sewer Force Main	L.F.	135	135	\$17.00	\$2,295.00		
25	90	By-Pass Pumping	L.S.	1	0	\$12,500.00	\$0.00	1	C
26	91	Locate Existing Sanitary Sewer Service	EA.	2	2	\$600.00	\$1,200.00		
27	91	4" or 6" Sanitary Sewer Service on 8" Sew.	L.F.	44	10	\$340.00	\$3,400.00	34	A
28	91	4" or 6" Sanitary Sewer Service on 10" Sew.	L.F.	27	27	\$410.00	\$11,070.00		
29	95	Auger 8" Sanitary Sewer (Incl. Pipe)	L.F.	64	56	\$59.00	\$3,304.00	8	A
30	95	Auger 10" Sanitary Sewer (Incl. Pipe)	L.F.	313	323	\$75.50	\$24,386.50	-10	D
31	120	4' Chain Link Fence	L.F.	360	300	\$12.50	\$3,750.00	60	A
32	120	6' Chain Link Fence	L.F.	40	0	\$14.50	\$0.00	40	A
33	120	6' Wooden Privacy Fence	L.F.	470	430	\$23.50	\$10,105.00	40	A
34	400	Deep Trench Construction (5' to 7')	L.F.	2,492	1,832	\$1.00	\$1,832.00	660	A
35	400	Deep Trench Construction (Over 7')	L.F.	1,195	915	\$1.50	\$1,372.50	280	A
36	LS-1	Lift Station Complete	L.S.	1	1	\$142,000.00	\$142,000.00		
37	1000	General Conditions	L.S.	1	1	\$18,500.00	\$18,500.00		
38	2000	Storm Water Pollution Prevention Plan	L.S.	1	1	\$1,250.00	\$1,250.00		
TOTAL AMOUNT OF AS-BUILT CONTRACT WORK								\$387,458.14	
ORIGINAL CONTRACT WORK								\$483,385.30	

Explanation of Overages and Underages

- A Removed items associated with the construction of the 8" san. sew. to the west to remain in budget.
- B Relocated the Lift Station, extended 10" san. sew. and removed construction of the lift station maintenance road.
- C Work not required during construction.
- D Extended auger length to avoid tree roots.

SANITARY SEWER REPLACEMENT  
 SHADY ACRES ADDITION  
 FINAL AS-BUILT QUANTITIES - OVERAGES AND UNDERAGES  
 EXTRA WORK ITEMS

Item	Spec	Description	Unit	Contract Quantity	Final Quantity	Unit Price	Extension	Quantity Difference	Explanation Below
EW-1	86	Seal Slab for Sanitary Sewer Manholes	EA.	6	0	\$300.00	\$0.00	6	C
EW-2	96	Class A Bedding Material for Wet Sand	C.Y.	937	519	\$39.00	\$20,241.00	418	E
EW-3	96	Well Pointing - Lift Station Construction	L.S.	1	1	\$16,000.00	\$16,000.00	0	F
EW-4	96	Well Pointing - Longitudinal for Utility Construction (100 Ft. Min.)	L.F.	1,102	710	\$27.00	\$19,170.00	392	E
EW-5	96	Installation of Geotechnical Filter Fabric for Wet Sand	L.F.	1,102	610	\$5.50	\$3,355.00	492	E
EW-6	310	Utility Adjustment for Telephone Buried Cable	L.F.	310	0	\$9.00	\$0.00	310	C

TOTAL AMOUNT OF AS-BUILT EXTRA WORK	\$58,766.00
ORIGINAL CONTRACT EXTRA WORK	\$92,948.00

Explanation of Overages and Underages

- C Work not required during construction.
- E To install 10" from the backyard easement to the lift station required wellpointing and wet trench construction
- F To install the lift station required well pointing

**Matula & Matula Construction, Inc.**

122 West Way, Suite 325 (979) 480-0030 Phone  
 Lake Jackson, TX 77566 (979) 480-0060 Fax

**Estimate**

Date Estimate No.

2/11/2009

29-025

Terms

Due on receipt

Job No.

2842 (E818) Shady Acres Ad...

**Customer Name / Address**

Angleton, City of  
 121 S. Velasco  
 Angleton, TX 77515  
 Re: Shady Acres Addition

Item	Description	Qty	Unit	Unit Price	Total
520-Bill...	<p>Matula &amp; Matula Construction Inc. will sell City of Angleton all material ordered but not installed at Shady Acres Subdivision.</p> <p>Lump Sum            Material on site:            1946 LF 8" SDR            40 ea. 8x4 wyes            3 ea. 10x4 wyes            43ea. services connection which include: 2ea. 1/4 bend, 1ea. clay to plastic fermco. 1ea adapter            2ea. 3' riser            3ea. 2' riser            2ea. 3' tall cone            1ea. 2.5' tall cone            1ea. 2' tall cone            1ea. flat top            5ea. bottom</p>			23,502.46	23,502.46
Thank You, Doug Peltier				<b>Total</b>	\$23,502.46

Signature \_\_\_\_\_

# Matula & Matula Construction, Inc.

122 West Way, Suite 325 (979) 480-0030 Phone  
 Lake Jackson, TX 77566 (979) 480-0060 Fax

## Estimate

Date	Estimate No.
12/4/2008	28-169
Terms	
Due on receipt	
Job No.	
2842 (E818) Shady Acres Ad...	

**Customer Name / Address**

Angleton, City of  
 121 S. Velasco  
 Angleton, TX 77515  
 Re: Shady Acres Addition

Item	Description	Qty	Unit	Unit Price	Total
520-Bill...	<p>Matula &amp; Matula Construction Inc. has furnished labor, material and equipment for the following project:</p> <p>Furnish and install 1ea. 120v, 150watt yard light with photo cell and 3" post on panel rack will be extended 10' for the light..</p> <p>Lump Sum</p>	1		1,975.00	1,975.00
<p>Thank You,                  Doug Peltier</p>				<b>Total</b>	\$1,975.00

Signature \_\_\_\_\_