CITY OF MARATHON, FLORIDA RESOLUTION 2012-10

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MARATHON, FLORIDA, APPROVING CHANGE ORDER NO. 8 TO FOUNTAIN ENGINEERING CORPORATION (FOUNTAIN) CONTRACT DATED MAY 25, 2010 FOR SERVICE AREA 7 WASTEWATER AND STORMWATER IMPROVEMENTS IN THE ORIGINAL AMOUNT OF \$3,571,229.67 FOR VARIOUS CITY REQUESTED CHANGES IN THE AMOUNT OF \$46,171.82; ADDING 90 DAYS TO SUBSTANTIAL AND FINAL COMPLETION; AUTHORIZING THE CITY MANAGER TO EXPEND BUDGETED FUNDS; AUTHORIZING THE CITY MANAGER TO EXECUTE ALL NECESSARY DOCUMENTS ON BEHALF OF THE CITY; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the City of Marathon, Florida ("City") entered into a contract with Fountain Engineering, Inc. ("Fountain") for the construction of the Service Area 7 Stormwater and Wastewater Collection System Project ("Project") in May of 2010 ("Contract"); and

WHEREAS, several changes to the Project have been made since the City and Fountain entered into the Contract that have resulted in an increase in the Contract price in an amount not to exceed \$46,171.82, and an extending the substantial and final completion dates of the Project by 90 days.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF MARATHON, FLORIDA, THAT:

- **Section 1**. The above recitals are true and correct and incorporated herein.
- **Section 2.** Change Order No. 8 to the Contract between the City and Fountain attached hereto as Exhibit "A," is hereby approved. The City Manager is authorized to execute the Change Order and expend budgeted funds on behalf of the City.
 - **Section 3.** This resolution shall take effect immediately upon its adoption.

PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF MARATHON, FLORIDA, THIS 10th DAY OF JANUARY, 2012.

THE CITY OF MARATHON, FLORIDA

Pete Worthington, Mayor

AYES:

Cinque, Keating, Ramsay, Snead, Worthington

NOES:

None

ABSENT:

None

ABSTAIN:

None

ATTEST:

Diane Clavier, City Clerk

(City Seal)

APPROVED AS TO FORM AND LEGALITY FOR THE USE AND RELIANCE OF THE CITY OF MARATHON, FLORIDA ONLY:

City Attorney

CHANGE ORDER NO. 8

TO: City of Marathon

PROJECT: City of Marathon Service Area 7 Wastewater and Stormwater Improvements Contract dated May 25th, 2010, in the amount of \$3,571,229.67.

ENGINEER: Weiler Engineering Corporation

CONTRACTOR: Fountain Engineering Inc.

DATE: January 10, 2012

This Change Order will authorize the following change to the Agreement:

The Work as set forth in the Agreement is hereby amended to include the items set forth on Exhibit "A" attached hereto and by this reference made a part hereof.

This Change Order constitutes full, final, and complete compensation to the Contractor for all costs, expenses, overhead, and profit, and any damages of every kind that the Contractor may incur in connection with the above referenced changes in the Work, and any other effect on any of the Work under this Agreement. The Contractor acknowledges and agrees that (a) the Contract Price of \$\(\frac{3.571.229.67}{\text{under}}\) under the Agreement will be **changed** by this Change Order, and (b) the schedule for performance of Work will be **changed** by this Change Order. Contractor expressly waives any claims for any additional compensation, damages or time extensions in connection with the above-referenced changes. Except as herein or heretofore expressly modified, all terms of the Agreement shall remain in full force and effect and shall cover the performance of, and payment for, any work authorized hereunder. Any defined terms not defined in this Change Order shall have the meanings set forth in the Agreement.

By signing below the parties indicate acceptance of this Change Order as set forth herein.

THE CITY OF MARATHON a Florida municipal corporation

Nama Rana Horneta

Title: City Manager

CONTRACTOR

Name: CALICIA LANDY

Title: Managon

END OF SECTION

CHANGE ORDER SUMMARY

8
Service Area 7 Wastewater and Stormwater Improvements
<u>N/A</u>
City of Marathon
Fountain Engineering Inc.
May 25, 2010

This Change Order is necessary to cover changes in the work to be performed under this Agreement. The GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, and STANDARD SPECIFICATIONS apply to and govern all work under this Change Order.

THE FOLLOWING CHANGES ARE MADE TO THE CONTRACT DOCUMENTS:

(1)	Original Contract Price	\$ 3,571,229.67
(2)	Current Contract Price (Adjusted by Previous Change Orders)	\$ 3,647,218.69
(3)	Total Proposed Change in Contract Price	<u>\$ 46.211.82</u>
(4)	New Contract Price (Item 2 + Item 3)	\$ 3,693,430.51
(5)	Original Contract Time (Substantial)	300 Days
(6)	Original Contract Time (Final)	320 Days
	Adjustments by Previous Change Orders: \$230,848.36	
(7)	Substantial Completion	448 Days
(8)	Final Completion	468 Days
(9)	Total Proposed Change in Contract Time	90 Days
(10)	New Substantial Contract Time (Item 7 + Item 9)	538 Days
(11)	New Final Contract Time (Item 8 + Item 9)	558 Days
(12)	Original Contract Substantial Completion Date	May 29, 2011
(13)	Original Contract Final Completion Date	June 18, 2011
(14)	New Contract Substantial Completion Date	Jan 22, 2012
(15)	New Contract Final Completion Date	Feb 11, 2012

EXHIBIT "A"

CHANGES ORDERED

ITEM 1 - Credit for 10" Storm Water Well

Description of Change:

Delete one 10" storm water injection well from contract

Reason for Change:

A 10" well was removed from the scope of work due to changes in the stormwater design initiated by requests from property owners. In this case, a resident preferred that the storm water continue to sheet flow onto his property. After the property owner signed a release, the City directed us to remove the swales and associated infrastructure. This change does NOT allow any contribution of runoff to wetlands

or surface waters.

Scope of Work:

N/A

Change in Contract Price:

-\$23.341.24

Change in Contract Time:

0 Days

ITEM 2 - Reduction in 18" Perforated Pipe, Type B

Description of Change:

Reduce the contract amount of Type B Perforated 18" storm drainage

pipe by 300 linear feet

Reason for Change:

Due to quantity under-runs on this item, the piping will not be

installed. Reduce quantity by 150 linear feet at the unit cost of

\$82.63 per foot.

Scope of Work:

N/A

Change in Contract Price:

-\$12,394.50

Change in Contract Time:

10 Days

ITEM 3 - Credit for Well Control Structure

Description of Change:

Delete the well control structure associated with the deleted 10"

injection well.

Reason for Change:

Since the 10" injection well was removed from the project at a property owner's request, the associated well control structure is no longer needed. This change does NOT allow any contribution of

runoff to wetlands or surface waters.

Scope of Work:

N/A

Change in Contract Price:

-\$6,778.68

Change in Contract Time:

0 Davs

ITEM 4 - Credit for Blue Isle Patching

Description of Change: Apply a credit since Fountain does not have to perform the normal

trench patching associated with the sewer construction

Reason for Change: In normal roadways, Fountain was required by contract to hot patch

the roadway as part of the restoration included in the cost of the piping. Since the need for trench patching is removed, the City is due

a credit for the amount of patching removed from the project.

Main line trench for gravity sewer, with manholes and laterals would Scope of Work:

result in a reduction of 218 square yards of patching at \$23.79 per SY

Change in Contract Price: -\$5,186.22

Change in Contract Time: 0 Days

ITEM 5 - Construction of Blue Isle Drive

Description of Change: Add construction of approximately 675 square yards of asphalt

roadway to replace deteriorated and substandard existing road.

Reason for Change: The pavement at the end of Blue Isle Drive was severely deteriorated

> the existing asphalt was very thin when construction of the sewer system began. The very thin asphalt with an unstable base could not support the construction equipment and was subsequently destroyed during the construction of the sewers. There is so little asphalt remaining that it is impractical to try to patch the roadway as was typically done. It is proposed instead that Fountain install a structural

course of 2" of Type S-I asphalt on a properly prepared road base.

Remove remaining existing asphalt, scarify the limerock road base. Scope of Work:

> Add limerock base as needed. Compact and prepare the road base, including density testing. Sealcoat the prepared road bed and place 2" of Type S-I asphalt, bringing final grade to match the elevations of wastewater structures and to promote positive drainage. Cost of work

will be \$38.06 per square yard.

\$25,690.50 Change in Contract Price:

ITEM 5 - 46th Street Asphalt Overlay

Description of Change:

Provide milling and first course, limerock and asphalt leveling course as needed. Final overlay with Type S-III asphalt. Concrete collar repair and upper chamber of vacuum pit included.

Reason for Change:

Asphalt overlay of this street was removed from the Globetec scope of work due to on-going water main and sewer lateral work. That work has now been completed and the final overlay and associated grade adjustments can be performed.

Scope of Work:

Adjust final grade of asphalt hot patch per plan, milling where needed and adding leveling course as needed. Repair concrete collars on 4 vacuum pits, 2 cleanouts and one storm inlet. Remove and replace upper chamber of vacuum pit (City to supply the materials for the vacuum pit upper chamber R&R). Unit costs from Area 3 to be honored where applicable.

Change in Contract Price:

Item	Units	Qty	Unit \$	Total \$
Overlay, 1" Type S-III Asphalt	SY	1100	\$10.98	\$12,078.00
Mill & Patch, 1.5" Type S-I Asphalt	SY	140	\$23.79	\$3,330.60
Asphalt Leveling Course	Ton	25	\$146.38	\$3,659.50
Limerock, Avg 3" thick	SY	25	\$15.56	\$389.00
Replace concrete collar, Vac Pit	EA	4	\$244.45	\$977.80
Repalce concrete collar, cleanout	EA	2	\$121.78	\$243.56
Replace concrete collar, storm inelt	EA	1	\$247.95	\$247.95
Replace upper chamber, vac pit (City materials)	EA	1	\$1,249.00	\$1,249.00
Additional Construction elevations, grade pins as				
needed	LS	1	\$1,000.00	\$1,000.00

TOTAL

\$23,175.41

Change in Contract Time:

15 Days

ITEM 7 - Additional Survey Costs

Description of Change:

Add pay item for additional survey needed at cost plus allowed markup. Add time for lost days of work while easement issues were resolved.

Reason for Change: Some infrastructure had to be re-located after the project survey and

stake-out had been completed. This item reimburses the contractor for the expenses of staking out the revised location. The revisions were generally a result of negotiations for easements necessitating a

change in location from the original design.

Scope of Work: Provide additional survey and stakeout where needed.

Change in Contract Price: \$3,900.00

Change in Contract Time: 3 Days

ITEM 8 - Fiber-Optic Pull Box Repair

Description of Change: Repair concrete fiber-optic pull box located within easement on

Dolphin Research easement

Reason for Change: While construction infrastructure in an easement located on Dolphin

Research property, a concrete pull box for fiber-optic cable was damaged. The box was covered and since it was on private property, it was not identified when AT&T marked locations of their utilities

Scope of Work: Replace pull box per attached backup

Change in Contract Price: \$822.94

Change in Contract Time: 1 Day

ITEM 9 - Adjustment of Infrastructure to Accommodate Property Owner Changes

Description of Change: Negotiated lump sum compensation for implementation of design

changes to swales, drainage structures and pump stations. The lump sum amount is based on time and materials estimates. Additional contract time added for delays associated with the changed designs

and the reworking efforts.

Reason for Change: Locations of pump stations and drainage inlets were adjusted to

alleviate concerns of residents. These changes were not requested until work in front of the properties was started. The Contractor accommodated the City by stopping work to allow for field adjustments or design changes to be made. The initially disturbed areas were restored and the work performed in the revised locations. Swales were also reworked at certain locations to improve aesthetics

and access issues.

Scope of Work: Various, as described above.

Change in Contract Price:

\$19,377.01

Change in Contract Time:

21 Days

ITEM 10 - Bollard Modifications

Description of Change: Change the quantity of bollards to be installed, include payment for

installation of partially completed bollards, include payment for removal of partially completed bollards, include payment for placement of boulders and delineators, add payment for set-up of demonstration of protective alternatives, add payment for reflective tape. Negotiated lump sum based on time and materials estimates.

Add days due to work and delays.

Reason for Change: The residents of Area 7 expressed concern about the appearance of

bollards in their neighborhoods. After input from residents, Council elected to install boulders in lieu of bollards in the residential areas. Bollards are to remain in the US 1 corridor. The costs associated with

these changes are tabulated below.

Scope of Work: See description of changes, above.

Change in Contract Price: \$20,946.60

Change in Contract Time: 35 Days

	Area 7 - Change Order No. 8 Su	ımmary	
Item No.	Description	Change in Contract Price	Change in Contract Time
1	Deduct Credit for 10" Injection Well	-\$23,341.24	0 Days
2	Deduct Credit for 150' of 18" Type B Drainage Pipe	-\$12,394.50	0 Days
3	Deduct Credit for Well Control Structure	-\$6,778.68	0 Days
4	Deduct Credit for Blue Isle Trench Patch;	-\$5,186.22	0 Days
5	Add Construction of Blue Isle Drive Asphalt	\$25,690.50	15 Days
6	46 th Street Overlay	\$23,175.41	15 Days
7	Additional Survey	\$3,900.00	3 Days
8	Fiber-Optic Pull Box Replacement	\$822.94	1 Days
9	Adjustments of Infrastructure for Property Owners	\$19,377.01	21 Days
10	Bollard Modifications	\$20,946.60	35 Days
	TOTAL	\$46,211.82	90 Days

No.	Description	Change in Contract Price	Change in Contract Time
1	Contract Sum Calculation Error Correction	-\$1.07	0 Days
2	Blue Isle Blvd – 46 th St well	-\$20,456.46	60 Days
3	Gibson St. Relocate Pump Station	\$4,600.00	0 Days
4	Miscellaneous Changes	\$56,654.37	28 Days
5	Adjustment to Pipe Quantities	\$3.96	0 Days
6	Remove contaminated fill	\$35,188.22	0 Days
7	Time Extension	\$0.00	60 Days
8	Various Changes	\$46,211.82	90 Days
T	OTAL	\$122,200.84	238 Days

Area 7 Sewer and Stormwater Project Change Order No. 8

Item No. 1

Credit for 10" Injection Well

A 10" injection well that was included in the original bid will not be used.

Item	Description	Current	Amount	QTY as	Unit Cost	Total
No.		Contract	added or	adjusted		Change
		QTY	removed	by CO		_
		·		#8		
22	10" Injection Well	1	-1	0	\$23,341.24	-\$23,341.24

Area 7 Sewer and Stormwater Project Change Order No. 8

Item No. 2

Credit for 18" Type B Drainage Pipe

Due to changes in the storm system design, 150 linear feet of 18" perforated ADS drainage pipe, Type B trench, will not be used. Reduce the quantity by 150 lf.

Item	Description	Current	Amount	QTY as	Unit Cost	Total
No.	-	Contract	added or	adjusted		Change
		QTY	removed	by CO		
				#8		
17	18" Perforated	2158	-150	2008	\$82.63	-\$12,394.50
	ADS Drain, Type B					

Area 7 Sewer and Stormwater Project Change Order No. 8

Item No. 3

Credit for Well Control Structure

The well control structure associated with the $10^{\prime\prime}$ injection well that was not installed will not be needed. Reduce the contract quantity by 1.

Item	Description	Current	Amount	QTY as	Unit Cost	Total
No.		Contract	added or	adjusted		Change
		QTY	removed	by CO		
				#8		
20	Well Control	12	-1	11	\$6,778.68	-\$6,778.68
	Structure					

Area 7 Sewer and Stormwater Project Change Order No. 8

Item No. 4

Credit for Blue Isle Trench Patch

From: erniebrown@fountainengineering.net@

Subject: RE: Area 7 additional mill & patch

Date: December 16, 2011 9:57:00 AM EST

To: Ed Castle <edrcastle@me.com>

1 Attachment, 6 KB

OK. Let me know

Ernie Brown Fountain Engineering, Inc. Office 305 451-6264 Fax 305 451-2751



Fountain Engineering, Inc.

"A Kidossofey Exicoryations"

----- Original Message -----

Subject: Re: Area 7 additional mill & patch From: Ed Castle < edrcastle@me.com > Date: Fri, December 16, 2011 9:51 am To: erniebrown@fountainengineering.net

Roger is out of the country till after Christmas. I will check with him after that.

Serge should be forwarding paving and grading plans for 46th St. Not the part in FDOT R/W. I will do a similar spreadsheet using Area 3 unit prices. It includes some mill and patch, and some replacement of damaged concrete collars. There is also a replacement of the upper chamber of one of the old style vacuum pits. I will provide more information in the estimate that I do, so when you get the drawings, hold off until you get my spreadsheet. David also wants to meet on site and look at it.

Ed

On Dec 16, 2011, at 9:19 AM, errine.net-wrote:

Ed APPROVAL FOR BLUE 151E, BEZOW

Sorry for the delay. But everything looks ok & seems to be what we agreed to in our last meeting. Do you still want to issue a work directive for this so that we don't have to wait for the next Council meeting to get started?

Ernie Brown
Fountain Engineering, Inc.
Office 305 451-6264
Fax 305 451-2751
<sigimg0.jpeg>

----- Original Message -----

Subject: Area 7 additional mill & patch From: Ed Castle < edrcastle@me.com> Date: Tue, December 13, 2011 3:22 pm

To: Ernie Brown < erniebrown@fountainengineering.net Cc:Lori Farthing@weilerengineering.org

Ernie,

The attached spreadsheet summarizes the additional mill & patch we discussed. I added some limerock quantity where we need to supplement the base or where we need to bring up the shoulder. I used unit costs from the Area 3 contract. For the end of Blue Isle, we propose just putting in 2" of S-1 rather than trying to patch and overlay. I used 1.6 X the unit price for mill & patch to account for the extra 60% thickness of asphalt. Please review this. I would like to put it on a change order for the January 10th Council meeting.

The City also wants to add the 46th Street milling and overlay to your Area 3 contract. It includes replacing some concrete collars and replacing the upper chamber on one 3-piece vacuum pit. I will provide drawings. We have unit prices for everything from Area 3 except the upper chamber replacement.

Susie has instructed us to put the City Marina connection out to bid since we don't have a price from you yet, so you don't need to work on that.

Edward R. Castle, PE Weiler Engineering Corporation

207	Street Name	Sheet	Location	SYMEP	CY Linerock	Activity
SS22 5-40 to 8-20° 400.0 100.0		SN194/B		£ ; £y		Roman graning maked tinstall 27 p.p. S.Caphah, 182 NOT 031 10.43
Avenue SS25 10+75 3.3 1.5	Crain Street	SS22		400,0		mil 1/2" and overlay 1.5" thick
SS25 Sy Of to 10+00 22 2 SS26 SS26 SS26 SS26 SS20 SS21 SS20 SS22 SS20 SS22 SS20 SS20	Orange Avenue	SS25	10+75	3,3		3'x10' mill out watermain trench and hot patch
SST6 200.0 11.1 1.1	Orange Avenue	SS 25	9+00' to 10+00'	22.2		saw cut and remove 5 sections of EOP and hot patch-ask Louis
Street/Tropteal SS27 5+50 on Tropical 111 Scale Properties SS31 0+05 to 0+30 Whorton Street SS31 0+05 to 0+57 SS31 0+05 to 0+57 333.3 SS21 0+05 to 0+47 77.8 SS21 0+05 to 0+47 77.8 Avenue SS37 1+50 to 1+75 30.6 2.5 Avenue SS37 1+50 to 1+75 30.6 2.5 Avenue SS39 3+70 to 5+30 333.3 38.9 Avenue SS31 1+50 to 1+75 30.6 2.5 Avenue SS31 1+50 to 1+75 30.6 2.5 Avenue SS31 1+50 to 1+75 30.6 2.5 Avenue SS41 7 to 0+30 333.3 38.9 Avenue SS41 7 to 0+30 11.7 Avenue/Crain Street SS41 10+00-10+35 11.7 Avenue/Crain Street SS42 double check 33.3 Avenue/Crain Street SS44 1+70+2+30 13.3 Avenue/Crain Street SS44 5+50 to 5+95 15.0 Street SS45 approx 6+50 11.1 Street SS46 approx 6+50 11.1 Street SS47 approx 3+25 6+70 Street SS47 4+50-8+50 22.2 Street SS47 6+50-8+50 22.2 Street SS47 6+50-8+50 22.2 Street SS47 6+50-8+50 22.2 Avenue SS47 6+50-8+50 22.2 Avenue SS47 6+50-8+50 22.2 Avenue SS47 6+50-8+50 22.2 Avenue SS41 6+50-8+50 22.2 Avenue	Lime Street	SS26		200.0		mill out 1/2" and overlay with 1" vs. 1.5" per contract
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Withforton Street SS31 0+05 to 0+55 333.3 27.8 offsorton Street SS31 0+05 to 0+45 77.8 1.7 Avenue SS32 0+65 4.0 2.5 Avenue SS39 3+70 to 1+75 30.6 2.5 Avenue SS39 3+70 to 2+57 77.8 9.1 Avenue SS39 2+20 to 2+55 77.8 9.1 Avenue SS41 ? 69.4 9.1 Avenue/Crain Street SS41 ? 69.4 9.1 In Street SS42 10+00-10+35 11.7 9.1 In Street SS42 10+00-10+35 11.7 8.9 In Street SS44 3+00-00-10+35 11.7 8.9 In Street SS44 3+00-00-10+36 13.3 8.9 In Street SS44 3+00-00-10+30 13.3 8.9 In Street SS44 3+00-00-10+30 18.9 18.0 In Street SS46 3+00-00-10+30 <td>Feachtree/Morton Street</td> <td></td> <td>0+05' to 0+30'</td> <td>33.3</td> <td>3.8</td> <td>mill out and rework base if needed and hot patch before overlay in west lane</td>	Feachtree/Morton Street		0+05' to 0+30'	33.3	3.8	mill out and rework base if needed and hot patch before overlay in west lane
Avenue SS31 0+08 to 0+37 77.8 4.0 1.5 1.	Tropical/Morton Street		0+05' to 0+55'	333.3	27.8	mil out from south Morton Eop at intersection, add limerock where needed, and patch
SSS2 6-65 40 1.50 1.	Avocado/Morton Street		0::08 to 0::43	77.8		mill out gatored entrance to street and patch
Avenue SS37 1+50 to 1+75 30.6 2.5 Avenue SS39 3+70 to 5+20 353.3 38.9 Avenue SS39 2+70 to 2+55 77.8 9.1 Avenue SS41 ? 69.4 9.1 al Avenue/Crain Street SS41 ? 69.4 9.1 al Avenue/Crain Street SS41 ? 444.4 9.1 ree Street SS42 10+00-10+35 11.7 8.9 n Street SS43 double check 3.3 8.9 n Street SS44 1+70-2+30 13.3 1.5 n Goodley SS44 9+05 and 0+10 13.3 1.5 A Goodley SS44 5+50 to 5+95 15.0 0.2 Street SS46 approx 1+07 1.0 0.2 Street SS46 approx 1+07 1.0 0.2 Street SS47 6+30-8+50 2.2 2.2 N Street SS47 6+50-8+50 2.2	Atorton	SS32	6+65	4.0		saw cut and hot patch north 1/2 of FKAA trench
Avenue \$S39 3+70 to 5+20 333.3 38.9 Avenue \$S39 2+70 to 2+55 77.8 9.1 al Avenue/Crain Street \$S41 ? 69.4 9.1 al Avenue/Crain Street \$S41 ? 444.4 9.1 al Avenue/Crain Street \$S41 10+00-10+35 11.7 11.7 al Avenue/Crain Street \$S543 double check 33.3 11.7 an/Kyle \$S44 1+70+2+30 13.3 13.3 an/Kyle \$S44 9+05 and 0+10 13.3 15.0 an/Kyle \$S44 9+05 and 0+10 18.0 0.2 Street \$S45 9+05 and 0+120 8.9 0.2 Street \$S46 approx 1+07 1.0 0.2 Street \$S47 <td>Отлиде Аусаце</td> <td>\$537</td> <td>**</td> <td>30.6</td> <td>2,5</td> <td>mill east lane and add lime rock, prune root if needed under asphali</td>	Отлиде Аусаце	\$537	**	30.6	2,5	mill east lane and add lime rock, prune root if needed under asphali
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Avenue/Crain Street SS41 ? 69.4 Avenue/Crain Street SS41 444.4 Avenue/Crain Street SS42 10-00-10+35 11.7 Interest SS42 10-00-10+35 11.7 Interest SS43 double check 33.3 Interest SS44 1+70-2+30 13.3 Interest SS44 9+05 and 0+10 13.3 Interest SS44 5+50 to 5+05 15.0 Interest SS46 approx 1+20 1.1 Interest SS47 approx 6+50 11.1 Interest SS47 6+50-8+50 12.2 Interest SS47 6+50-8+50 12.2 Interest SS47 6+50-8+50 12.2	Leman Avenue	6£88	2+20° to 2+55°	77.8	J.9.	mil out gatoring and add additional lime rock app. 4 to 5" thick in some areas to bring to grade
Accounce/Crain Street SS41 444.4	Tropical Avenue/Crain Street	SS41	c	69.4		intersection of Crain Tropical needs to be milled out and go 12" either side of intersection
ree Street SS42 10·00.10·35 11.7 Street SS43 double check 33.3 nn/kyle 8.9 8.9 s SS44 1-70·2·30 13.3 i/Geadley SS44 1-70·2·30 15.0 n SS44 3-40r and 0·10' 15.0 s SS44 3-40r and 0·10' 15.0 s SS46 approx 1·40' 1.0 0.2 s SS46 approx 1·40' 1.0 0.2 s Surer SS46 approx 1·40' 1.1 0.2 s Surer SS47 approx 3·4.25' 6.7 9. s Surer SS47 6+50·8·50' 22.2	Frepical Avenue/Crain Street	SS41		444.4		from Crain intersection to US1 on Tropical-mill out 200°1" thickxfull road width
SS43 double check 33.3	Feachtree Street	SS42		11.7		2 patches needed at north EOP of Morton one is approx 25'x3' and 10'x3'
SS44 1+70-2+30 8.9	Morton Street	SS43	double check	33.3		130x2' wide and 20'x2' wide saw cut and remove north EOP and patch before overlay
SS44 1+70-2+30 13.3 13.3 14.50-2+30 13.3 14.50-2+30 13.3 15.50 15.	Dennison/Kyle			8.9		saw cut and remove radius 4' lengthxwidth of the asphalt
v/Gaodley SS44 9+0.5 and 0+10' 13.3 n SS44 5+50 to 5+95' 15.0 street SS45 0+80 to 1+20' 8.9 0.2 Street SS46 approx 1+00' 1.0 0.2 Street SS47 approx 6+50' 1.1 0.2 y Street SS47 6+50-8+50' 2.2.2	Parrish	SS44	1+70-2+30	13.3		approx 60' of eastern lane on EOP needs to be saw cut approx 2' wide and hotpatched before overlay
SS44 \$450 to \$4.95 15.0 SS45 0+80 to 1+20 8.9 Sirect SS46 approx 1+00 1.0 0.2 Street SS47 approx 3+25 6.7 Street SS47 6+50-8+50 22.2	Parrish/Goodley	1	9+05' and 0+10'	13.3		water main trenches in criss cross pattern need to be milled out and hot-patched before overlay
SS45 0+80 to 1+20 8.9	Parrish		5+50' to 5+95'	15.0		45'x3' saw cut and patch before overlay on west EOP
Street SS46 approx 1+00 1.0 0.2 Street SS46 approx 6+50 11.1 0.2 y Street SS47 approx 3+25 6.7 6.7 y Street SS47 6+50-8+50 22.2	Bailey		0+80' to 1+20'	6.8		saw cut and remove asphalt and hot patch northern EOP approx. 2' x40' section
SS46 approx. 6+50' 11.1 SS47 approx. 3+25' 6.7 SS47 6+50-8+50' 22.2	Gibson Street	ŀ	approx 1+00.	1.0	0.2	3'x3' pothole in southern lane needs to be saw cut out, add limerock, and hot patch before overlay
SS47 approx. 3+25 6.7 SS47 6+50-8+50 22.2	Gibson Street	SS46	approx. 6+50'	11.1		mill out and add hotpatch to low spot in center of roadway
SS47 6+50-8+50 22.2	Goodley Street	8847	approx. 3+25	6.7		3' wide xwidth of roadway here need to mill and patch FKAA trench
	Goodley Street	SS47	6+50-8+50	22.2		saw cut, remove, and hot patch southern EOP approx. 1' wide x200 feet long
						saw cut and remove asphalt, rework base to extend 2' beyond EOP then add lime rock shoulder with an 8.1
Banana Road SS49 13+00 to 17+00 188.9 29.6 stope	Banana Road	SS49		88.9	29.6	slaps

	CY of Limerock	Cost of Limerock	
110,9	122.0	\$6,697.80	
2275.0	2500.0	\$59,475.00	\$20,504.28
Total	Total : 10%	Cost of M&P	Blue Isle

| Fotal Change Order w Blue liste | \$86,677.08 | Chedit | Blue liste levells, residunt to paid in octale, project | \$2.671.73

- They by cress

\$25,690.50 -\$5,186.22 \$20,504.28 Blue Isie 2" of S-1 Credit for Blue Isie M&P (Blue Isie Net Chunge

Blue Isle Mill & Patch Estiante

186.7 Gravity main trench, 4' wide X 420' long
21.0 Patching for manhole excavations, 3 X 7 SY each
10.7 Patching for 6' laterals 4 ca X 3' wide X 8' long
218.3

Area 7 Sewer and Stormwater Project Change Order No. 8

Item No. 5

Add Construction of Blue Isle Trench Patch

erniebrown@fountainengineering.net * RE: Area 7 additional mill & patch December 16, 2011 9:57 AM

OK. Let me know

Ernie Brown Fountain Engineering, Inc. Office 305 451-6264 Fax 305 451-2751



Francein Engineering, buc.

"A. Witterschied Extlasopelimis"

----- Original Message -----

Subject: Re: Area 7 additional mill & patch From: Ed Castle <edrcastle@me.com> Date: Fri, December 16, 2011 9:51 am To: erniebrown@fountainengineering.net

Roger is out of the country till after Christmas. I will check with him after that.

Serge should be forwarding paving and grading plans for 46th St. Not the part in FDOT R/W. I will do a similar spreadsheet using Area 3 unit prices. It includes some mill and patch, and some replacement of damaged concrete collars. There is also a replacement of the upper chamber of one of the old style vacuum pits. I will provide more information in the estimate that I do, so when you get the drawings, hold off until you AMPONDEC 16, 2011, at 9:19 AM, erniebrown@fountainengineering.net wrote: get my spreadsheet. David also wants to meet on site and look at it.

Sorry for the delay. But everything looks ok & seems to be what we agreed to in

our last meeting. Do you still want to issue a work directive for this so that we don't have to wait for the next Council meeting to get started?

Ernie Brown
Fountain Engineering, Inc.
Office 305 451-6264
Fax 305 451-2751
<sigimg0.jpeg>

----- Original Message -----

Subject: Area 7 additional mill & patch From: Ed Castle < edrcastle@me.com > Date: Tue, December 13, 2011 3:22 pm

To: Ernie Brown < erniebrown@fountainengineering.net>
Co: Lori Farthing@weilerengineering.org>

Ernie,

The attached spreadsheet summarizes the additional mill & patch we discussed. I added some limerock quantity where we need to supplement the base or where we need to bring up the shoulder. I used unit costs from the Area 3 contract. For the end of Blue Isle, we propose just putting in 2" of S-1 rather than trying to patch and overlay. I used 1.6 X the unit price for mill & patch to account for the extra 60% thickness of asphalt. Please review this. I would like to put it on a change order for the January 10th Council meeting.

The City also wants to add the 46th Street milling and overlay to your Area 3 contract. It includes replacing some concrete collars and replacing the upper chamber on one 3-piece vacuum pit. I will provide drawings. We have unit prices for everything from Area 3 except the upper chamber replacement.

Susie has instructed us to put the City Marina connection out to bid since we don't have a price from you yet, so you don't need to work on that.

Edward R. Castle, PE Weiler Engineering Corporation

Edward R. Castle, PE Weller Engineering Corporation

Street Name	Sheet	Location	SY M&P	CY Limerock	Activity
Blue fale	5819.MB		653.3		Remove existing aspiralt, install 2" type S-1 aspiralt, DO NOT DVTRLAY
Crain Street	SS22	5+40° to 8+20°?	400.0		mill 1/2" and overlay 1.5" thick
Оганде Ауевие	SS25	10+75'	3.3		3'x10' mill out watermain trench and hot patch
Orange Avenue	SS25	9+00' to 10+00'	22.2		saw cut and remove 5 sections of EOP and hot patch-ask Louis
Lime Street	SS26		200,0		mill out 1/2" and overlay with 3" vs. 1.5" per contract
Ferriere Street/Tropical	SS27	5±50' on Tropical	11,1		mill down humped up existing patch to grade
Peachtree/Morton Street	SS31	0::05' to 0::30'	33.3	2.8	mill out and rework base if needed and hot patch before overlay in west lane
frepical/Morten Street	SS31	0 ±05' to 0±55'	333.3	27.8	mill out from south Morton Eop at intersection, add limerock where needed, and patch
Avocado/Morton Street	SS31	0+08' to 0+43'	77.8		mill out gatored entrance to street and patch
Morton	SS32	6+65'	4.0		saw cut and hot patch north 1/2 of FKAA trench
Orange Avenue	SS37	1÷50' to 1÷75'	30.6	2.5	mill east lane and add lime rock, prune root if needed under asphalt
Lemon Avenue	SS39	3÷70' to 5+20'	333.3	38.9	mill out overlay and add limetock to grade (subgrade failure)
Lemon Avenue	SS39	2÷20' to 2÷55'	77.8	9.1	mill out gatoring and add additional lime rock app. 4 to 5" thick in some areas to bring to grade
Tropical Avenue/Crain Street	SS41	?	69.4		intersection of Crain/Tropical needs to be milled out and go 12" either side of intersection
Propical Avenue/Crain Street	SS41		444.4		from Crain intersection to US1 on Tropical-mill out 200' I" thickxfull road width
Peachtree Street	SS42	10+00-10+35'	11.7		2 patches needed at north EOP of Morton one is approx. 25'x3' and 10'x3'
Morton Street	SS43	double check	33.3		[130x2] wide and 20'x2' wide saw cut and remove north EOP and patch before overlay
Dennison/Kyle			8.9		saw out and remove radius 4' lengthxwidth of the asphalt
Parrish	SS44	1+70'-2+30'	13.3		approx 60 of eastern lane on EOP needs to be saw cut approx. 2 wide and hotpatched before overlay
Farrish/Goodley	SS44	9:05' and 0:10'	13,3		water main trenches in criss cross pattern need to be milled out and hot-patched before overlay
Parrish	SS44	5+50' to 5+95'	15.0		45'x3' saw cut and patch before overlay on west EOP
Bailey	SS45	0÷80' to 1 · 20'	8.9		saw cut and temove asphalt and hot patch northern EOP approx. 2' x40' section
Gibson Street	SS46	approx 1+00°	1.0	0.2	3'x3' pothole in southern lane needs to be saw cut out, add limerock, and hot patch before overlay
Gibson Street	SS46	approx. 6±50'	11.1		mill out and add hotpatch to low spot in center of roadway
Goodley Street	SS47	approx. 3±25'	6.7		3' wide xwidth of roadway here need to mill and patch FKAA trench
Goodley Street	SS47	6+50'-8+50'	22.2		saw cut, remove, and hot patch southern EOP approx. I' wide x200 feet long
					saw out and remove asphalt, rework base to extend 2' beyond EOP then add lime rock shoulder with an 8:1
Banana Road	SS49	13+00 to 17-00	88.9	29.6	slope

Total	2275.0	110.9	
Total * 10%	2500.0	122 0	CY of Limerock
Cost of M&P	\$59,475.00	\$6,697.80	Cost of Limerock
Blue Isle	\$20,504.28		

Total Change Order w Blue Isle \$86,677.08

A field to Bloc tide Coverley could not be part to overlay project;

Blue Isle 2" of S-I \$25,690 50 Credit for Blue Isle M&P -\$5,186.22 Blue Isle Net Change \$20,504.28

Blue Isle Mill & Patch Estiainte

1	186.7	Gravity main trench, 4' wide X 420' long
	21.0	Patching for manhole excavations, 3 X 7 SY each
ļ	10.7	Patching for 6" laterals 4 ea X 3' wide X 8' long
	218.3	

- ITEM \$3 COST

Area 7 Sewer and Stormwater Project Change Order No. 8

Item No. 6

46th Street Asphalt Overlay

Ed Castle <edrcastle@me.com> # 46th St overlay December 27, 2011 2:03 PM

Ernie,

Take a look at the attached estimate for 46th Street. You should have the drawings from Serge already. I used unit costs from Area 3 except for the vacuum pit upper chamber, and I put in an extra \$1000 for the additional elevation shots needed. Please let me know if this works. If I don't hear otherwise by tomorrow mid-day, I will use these numbers to place this in the Area 7 change order.

46th St. over. ...xlsx (1.0 KB)

Edward R. Castle, PE Weiler Engineering Corporation

NO RESPONSE FROM ELNIE, IMPLIED CONSENT

Item	Units	Qty	Unit \$	Total \$
Overlay, 1" Type S-III Asphalt	SY	1100	\$10.98	\$12,078.00
Mill & Patch, 1.5" Type S-I Asphalt	SY	140	\$23.79	\$3,330.60
Asphalt Leyling Course	Ton	25	\$146.38	\$3,659.50
Limerock, Avg 3" thick	SY	25	\$15.56	\$389.00
Replace concrete collar, Vac Pit	Ea	4	\$244,45	\$977.80
Repalce concrete collar, cleanout	Ea	2	\$121.78	\$243.56
Replace concrete collar, storm inelt	Ea	1	\$247.95	\$247.95
Replace upper chamber, vac pit (City materials)	Ea	1	\$1,249.00	\$1,249.00
Additional Construction elevatioins, grade pins as needed	LS	1	\$1,000.00	\$1,000.00

TOTAL

\$23,175.41

170m # \$ COST

Area 7 Sewer and Stormwater Project Change Order No. 8

Item No. 7

Additional Survey Costs

FOUNTAIN ENGINEERING, INC.

48 Coral Way, Unit A Key Largo, FL 33037 Phone: 305 451-6264 Fax: 305 451-2751

Weiler Engineering Inc

September 17, 2010

6805 Overseas Highway

Marathon, Fl. 33050

RE: City of Marathon Sewer & Storm Water Area 7

Additional survey Work

Attn; Ed Castle

Sir I have listed the additional work performed by our surveyor on the above referenced project

Invoice # 3118 is for the revised easement to service Vahalla Point frictuded is the easement from the plans and the revised easement provided by Weiler Engineering

Invoice #3125 is for the revised easement DB-028-8 or known as Fraelich Included is the easement

Invoice #3125 is for the revised easement DB-028-8 or known as Fraelich included is the easement from the project plans and the revised easement provided by Weiler Engineering.

Invoice #3132 is for the revised location of DB-013-23,DB-013-33,DB-013-4, and DB-013-5

Invoice #3136 is for the Baseline 7 Benchmarks on 46 Street. This was additional unit quantity work added under change order 2 & 4

MJC # 3118	Ser.	750.00
MJC # 3125	ेंद्	1,000.00
MJC # 3132	\$	1,000.00
MJC # 3136	\$	500.00
Subtotal	\$	3,250.00
Fountain Engineering Markup	\$	650.00
Extra:Surveying Cost billed	\$	3,900.00
TO A CONTRACT OF THE PARTY OF T		

Gregory Hoch

Sincerely 8

MIC Group, Inc.

NVOICE

1865 NW 124 Way Coral Springs, FL. 33071

INVOICE # 3118
DATE: MARCH 19, 2011

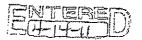
954-753-0975 954-753-0543 (Fax)

BILL Fountain Engineering, Inc. P.O. Box 700457
Miami, Florida 33170

COMMENTS

DATE		DESCRIPTION		BALANCE	AMOUNT
	Marathon A	rea 7 / Grassy I			
	*** ADDITIO	NAL CHARGE **			
		ment / Ocean I			\$750.00
	HdO T.1	l west mo			
	· · · · · · · · · · · · · · · · · · ·		***************************************		
CURRENT	1-30 DAYS PAST DUE	31-60 DAYS PAST DUE	61-90 DAYS PAST DUE	OVER 90 DAYS PAST DUE	AMOUNT DUE
					\$750.00

REMITTANCE	
INVOICE # 3118	
Date 3/19/11	
Amount Due \$750.00	
Amount Enclosed	



MJC Group, Inc

INVOICE

1865 NW 124 Way

Coral Springs, FL. 33071

INVOICE # 3125 DATE: MARCH 22, 2011

954-753-0975 954-753-0543 (Fax)

BILL Fountain Engineering, Inc. P.O. Box 700457

P.O. Box 700457 Miami, Florida 33170 COMMENTS

DATÉ		DESCRIPTION		BALANCE	AMOUNT
	Marathon A				
	*** ADDITIO	NAL CHARGE *	**		
	Stake Easemen	t / Fraelich, Be	eck, Bird)	***************************************	\$1000.00
	Fie	eld & Office			
				, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
CURRENT	1-30 DAYS PAST DUE	31-60 DAYS PAST DUE	61-90 DAYS PAST DUE	OVER 90 DAYS PAST DUE	AMOUNT DUE
					\$1000.00

REMITTANCE	
INVOICE # 3125	
Date 3/22/11	
Amount Due \$1000.00	
Amount Enclosed	

Make all checks payable to MJC Group, Inc.

MJC Group, Inc.

INVOICE

1865 NW 124 Way

Coral Springs, FL. 33071

INVOICE # 3132 DATE: APRIL 13, 2011

954-753-0975 954-753-0543 (Fax)

Fountain Engineering, Inc. P.O. Box 700457 Miami, Florida 33170 COMMENTS

DATE		DESCRIPTION		BALANCE	AMOUNT
	Marathon Area	7 / Grassy Key			
	Re-Stake (Reloc DB 13-4, DB 13-	•	, DB 13-3,		\$1000.00
	i :				
CURRENT	1-30 DAYS PAST DUE	31-60 DAYS PAST DUE	61-90 DAYS PAST DUE	OVER 90 DAYS PAST DUE	AMOUNT DUE
					\$1000.00

REMITTANCE			(i	i.	M.,		
INVOICE # 3132			 			 	
Date 4/13/11			 ~			 	
Amount Due \$1000.00			 erentania.				
Amount Enclose	d	_,,	 				

MJC Group, Inc

INVOICE

1865 NW 124 Way

Coral Springs, FL. 33071

INVOICE # 3136 DATE: MAY 6, 2011

954-753-0975 954-753-0543 (Fax)

BILL Fountain Engineering, Inc. P.O. Box 700457
Miami, Florida 33170

COMMENTS

DATE		DESCRIPTION		BALANCE	THUOMA
	Marathon Area	4			
	Set Baseline Sta Set CL Structur				\$500.00
		٠			e e e e e e e e e e e e e e e e e e e
			,	## ###################################	
CURRENT	1-30 DAYS PAST DUE	31-60 DAYS PAST DUE	61-90 DAYS PAST DUE	OVER 90 DAYS PAST DUE	AMOUNT DUE
					\$500.00

REMITTANCE	
INVOICE # 3136	
Date 5/6/11	
Amount Due	
\$500.00 Amount Enclosed	

Make all checks payable to MJC Group, Inc.

Area 7 Sewer and Stormwater Project Change Order No. 8

Item No. 8

Fiber-Optic Pull Box Repair

Ed Castle <edrcastle@me.com>&
Dolphin Research Fiber-Optic revised cost
December 28, 2011 2:14 PM

Ernie,

The estimate provided by Greg had incorrect labor rates (the cost + 20% + 10% rate, but with rounded numbers). And then the labor was marked up 20% again in the spreadsheet. I have attached a corrected spreadsheet. Unless you disagree, this will be the cost I use in the change order.

Fiber-Optic xlsx (10 KB)

Edward R. Castle, PE Weller Engineering Corporation

Revised Dolphin Research Fiber-optic pull box repair 12/28/2011

Description	Qty	Unit Cost	Total
Concrete pull box, each	1.00	\$346.69	\$346.69
Bag concrete mix	5.00	\$5.38	\$26.90
Reinforcing steel, lbs	3.00	\$2.48	\$7.44
Trenching, linear feet	12.00	\$8.12	\$97.44
Density testing, each	1.00	\$50.00	\$50.00
Skilled Labor, hours	4.00	\$17.62	\$70.48
Unskilled labor, hours	9.00	16.42	\$147.78

Materials SubTotal	\$381.03
Markup, 20% on materials only	\$76.21
Materials + Markup Subtotal	\$457.24
Labor and Equipment Subtotal	\$365.70

TOTAL \$822.94

Area 7 Sewer and Stormwater Project Change Order No. 8

Item No. 9

Adjustment of Infrastructure for Property Owners

Various changes were made throughout the project to accommodate requests of property owners. The changes were generally made as field adjustment that occurred after the Contractor had mobilized and begun working. This caused delays and associated demobilization from the site, return mobilization to the property, restoration of any previously disturbed areas and then performing the changes work. In the case of minor adjustments where demobilization was not needed, the delay was less significant but still resulted in additional expense to the Contractor.

These types of expenses are compensable under the terms of the construction documents. Based on the varying circumstances and conditions, lump sum compensation was negotiated based on the estimated time and materials expenses incurred by the Contactor. The markups and hourly rates as agreed upon in the Fountian Area 3 Time and Materials change order were used to generate the lump sum amount of \$19,377.01.

Area 7 Sewer and Stormwater Project Change Order No. 8

Item No. 10

Bollard Modifications

The residents of Area 7 expressed concern about the appearance of bollards in their neighborhoods. After input from residents, Council elected to install boulders in lieu of bollards in the residential areas. Bollards are to remain in the US 1 corridor.

The work involved in accommodating the desires of the property owners and the Council created a change scope of work including: Set-up of demonstration of protective alternatives, changes in the quantity of bollards to be installed, and work associated with the installation of partially completed bollards, removal of partially completed bollards, placement of boulders, delineators and reflective tape.

These types of expenses are compensable under the terms of the construction documents. Based on the varying circumstances and conditions, lump sum compensation was negotiated based on the estimated time and materials expenses incurred by the Contactor. The markups and hourly rates as agreed upon in the Fountian Area 3 Time and Materials change order were used to generate the lump sum amount of \$20,946.60.