



Agenda Item Request Form

ITEM: Consideration of Approval of a Deductive Change Order 10 to Marshall Brothers Construction and Engineering in the amount of \$-7,347.49 for the Phase I Improvements of the St. Andrews WWTF.

BACKGROUND INFORMATION: Change Order includes: (1) Effluent pH monitoring system for permit compliance – increase: \$23,261.50; (2) Remove additional activated charcoal carbon media for odor control from change order No. 7 – decrease: \$-4,200.00; (3) Electrical for 2nd exhaust fan SBR3 Blower Build – increase: \$4,825.00; (4) 24” x 36” Tap at headworks for highway 390 FM – increase: \$50,250.00; (5) Replace city damaged handrail – increase: \$2,075.00; (6) Run indication for odor control blower – increase: \$2,700.00; (7) Provide trending SCADA effluent sampling – increase: \$1,150.00; (8) Current Tax Savings on PO 2017-00002237 AAG Services – decrease: \$-13,422.50; (9) Current Tax Savings on PO 2017-00002281 Andritz Separation – decrease: \$-25,447.50; (10) Current Tax Savings on PO 2017-00001770 Aqua Products Inc. – decrease: \$-11,814.94; (11) Current Tax Savings on PO 2017-00001993 Graybar Electrical – decrease: \$-36,724.05. Net Change Order Amount \$-7,347.49.

DEPARTMENT HEAD RECOMMENDATION: Recommend Approval

Budget Impact

Budgeted?: Yes: No: How Much budgeted?

If more, where do you suggest funds come from?

Cost Center Affected:

Personnel \$

Operating \$

Capital \$

Revenue \$

Requested By: Johnny C. Sims

Date: September 4, 2019

Date of Issuance:	8/16/2019	Effective Date:	
Owner:	City of Panama City	Owner's Contract No.:	308354
Contractor:	Marshall Brothers Construction and Engineering, Inc.	Contractor's Project No.:	308354
Engineer:	Mott MacDonald	Engineer's Project No.:	308354
Project:	St. Andrews WWTF Improvements Phase I	Contract Name:	St. Andrews WWTF Improvements

The Contract is modified as follows upon execution of this Change Order:

Description:
SEE BREAKDOWN ON PAGE 2
Attachments:
St. Andrews pH Drawing

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES [note changes in Milestones if applicable]
Original Contract Price: \$ 37,189,600.00	Original Contract Times: Substantial Completion: 730 Ready for Final Payment: 760 days or dates
[Decrease] from previously approved Change Orders No. 1 No. 9 \$ (810,654.10)	[Increase] from previously approved Change Orders No. 1 No. 9 Substantial Completion: 519 Ready for Final Payment: 519 days
Contract Price prior to this Change Order: \$ 36,378,945.90	Contract Times prior to this Change Order: Substantial Completion: 1249 Ready for Final Payment: 1279 days or dates
[Decrease] of this Change Order: \$ (7,347.49)	No change of this Change Order: Substantial Completion: Ready for Final Payment: days or dates
Contract Price incorporating this Change Order: \$ 36,371,598.41	Contract Times with all approved Change Orders: Substantial Completion: 1249 Ready for Final Payment: 1279 days or dates

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: _____ Engineer (if required)	By: _____ Owner (Authorized Signature)	By: _____ Contractor (Authorized Signature)
Title: _____	Title: _____	Title: _____
Date: _____	Date: _____	Date: _____

APPROVED by Funding Agency (if applicable)
By: _____ Date: _____
Title: _____

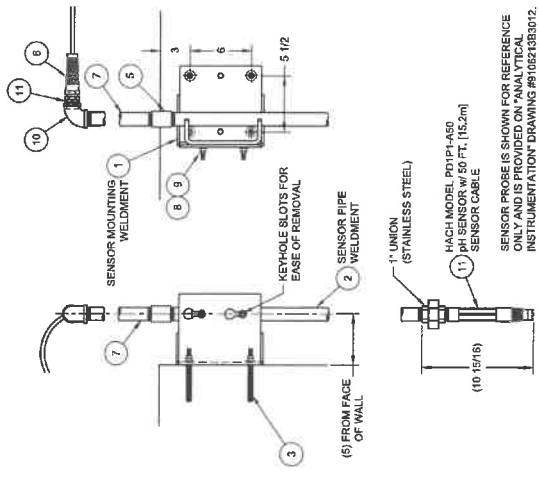
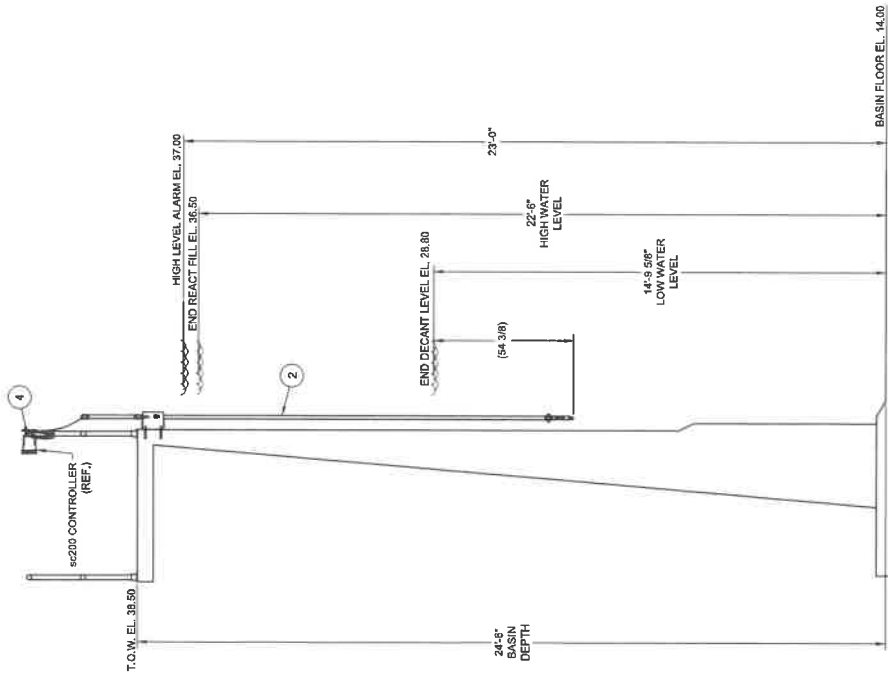
Change Order 10 Breakdown

Increase: Effluent pH monitoring system for permit compliance	\$23,261.50
Decrease: Remove additional activated charcoal carbon media for odor control from change order No.7	-\$4,200.00
Increase: Electrical for 2nd exhaust fan SBR3 Blower Build	\$4,825.00
Increase: 24"x36" Tap at headworks for highway 390 FM	\$50,250.00
Increase: Replace city damaged handrail	\$2,075.00
Increase: Run indication for odor control blower	\$2,700.00
Increase: Provide trending SCADA effluent sampling.	\$1,150.00
Decrease: Current Tax Savings on PO 2017-00002237 - AAG Services	-\$13,422.50
Decrease: Current Tax Savings on PO 2017-00002281 - Andritz Separation	-\$25,447.50
Decrease: Current Tax Savings on PO 2017-00001770 - Aqua Products Inc	-\$11,814.94
Decrease: Current Tax Savings on PO 2017-00001993 - GraybaR Electrical	-\$36,724.05

Net Change Order Amount -\$7,347.49

INSTALLATION NOTES:

1. PLEASE REVIEW ALL INSTALLATION DRAWINGS AND INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. USE THREAD SEALANT OR TAPE ON ALL PIPE THREADS.
3. SENSOR CABLE MUST NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO THE BASIN HANDLING FOR FUTURE ADJUSTMENTS OF THE SENSOR.
4. USE TY-WRAPS PROVIDED TO COIL EXCESS LENGTH OF SENSOR CABLE TOGETHER.
5. ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND A JAM NUT.
6. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS.
7. DO NOT CRIMP OR DISTORT SENSOR CABLE. LIMIT THE MINIMUM BEND RADIUS TO (2) INCHES. PROTECT EXPOSED CABLE FROM SOURCES OF POSSIBLE ACCIDENTAL DAMAGE.



SENSOR COMPONENT WEIGHTS:

- SENSOR PIPE WELDMENT 26.2 LBS
- SENSOR ASSEMBLY (PH) 3.6 LBS

SENSOR PROBE IS SHOWN FOR REFERENCE ONLY AND IS PROVIDED ON "ANALYTICAL INSTRUMENTATION" DRAWING #9108213B3012.

QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	UNIT
11	1	24 1/2" 304 SS	11	1	RED BLUSH 1" 3/4" NPT
10	1	20x207	10	1	ELDMG 90DEG TAD 1" 150W
9	2	201404	9	2	NUT-HEX SERRATED FLANGE 3/8-18
8	2	2000403	8	2	NUT-HEX JAM 3/8-18
7	1	2018204	7	1	PIPE 1" S40 TBE 20 LG
6	1	2015713	6	1	CORCORP FLEX-STRAIGHT 3/4" NPT
5	1	2007933	5	1	COUPLING 1" NPT 150W
4	2	2000286	4	2	TY-WRAP/CABLE TIE 4" MAX DIA
3	4	2097161-1	3	4	KIT ADHESIVE ANCHOR 3/8" SET ADHESIVE
2	1	2010022-14 S30	2	1	SENSOR PIPE WELDMENT 14 FT
1	1	2010023 S30	1	1	SENSOR MOUNTING WELDMENT

REV	DATE	BY	CHKD	DESCRIPTION
1	01/18/11	11/1/11	GM	ISSUED FOR CONSTRUCTION
2	01/18/11	11/1/11	GM	ISSUED FOR CONSTRUCTION

DATE	01/18/11	SCALE	1/2" = 1'-0"
PROJECT	11/1/11	DRAWING NO.	11/1/11
REVISED	11/1/11	BY	GM
DATE	01/18/11	CHKD	GM
BY	11/1/11	DESCRIPTION	ISSUED FOR CONSTRUCTION
DATE	01/18/11	SCALE	1/2" = 1'-0"
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REVISED	11/1/11	BY	GM
DATE	01/18/11	CHKD	GM
BY	11/1/11	DESCRIPTION	ISSUED FOR CONSTRUCTION

11H SENSOR PROBE INSTALLATION

SCALE: 1/2" = 1'-0"

DATE: 01/18/11

DRAWING NO.: 11/1/11

PROJECT: 11/1/11

BY: 11/1/11

CHKD: GM

DESCRIPTION: ISSUED FOR CONSTRUCTION