

CITY OF KEY WEST  
 TASK ORDER No. 3 – DESIGN SERVICES  
 RICHARD A. HEYMAN ENVIRONMENTAL PROTECTION FACILITY  
 SLUDGE CONVEYOR BELT REPLACEMENT

**BACKGROUND**

The City of Key West (CITY) has decided to replace their existing sludge conveyor belt at the Richard A. Heyman Environmental Protection Facility (RAHEPF). The equipment to be replaced will include the existing sludge conveyor belt, variable frequency drive (VFD) and scale. All design documents associated with this Task Order will be submitted as part of Task Order No. 1 – Aeration System Upgrade.

**SCOPE OF SERVICES**

Scope of services to be provided under this task are as described in Attachment A.

**BUDGET**

Tasks as described in Attachment A would have the following lump sum fees:

TASK SERIES	LUMP SUM FEES
<b>Sludge Conveyor Belt Replacement</b>	\$38,566
<b>LUMP SUM TOTAL</b>	\$38,566

**CITY OF KEY WEST**

**BLACK & VEATCH CORPORATION**

By: \_\_\_\_\_

By: \_\_\_\_\_

By: \_\_\_\_\_

By: Rafael E. Frias III, P.E

(Print Name)

(Print Name)

Title: \_\_\_\_\_

Title: Associate Vice President

Date: \_\_\_\_\_

Date: \_\_\_\_\_

<b>BLACK &amp; VEATCH</b>		<b>TREND NOTIFICATION EVALUATION SHEET</b>				<b>BV PN 199322</b>				<b>1</b>																														
<b>CLIENT</b> City of Key West		<b>TREND NUMBER</b>																																						
<b>PROJECT</b> Richard A. Heyman Environmental Protection Facility - Sludge Conveyor Belt Replacement		<b>REVISION NUMBER</b>																																						
TREND NAME	DATE INITIATED	INITIATED BY	DATE NOTIFIED	STATUS (A, D, P, or W)	TOTAL TREND COST																																			
					Trend Eval.	Engineering Cost	Construction Cost	Total Cost																																
Sludge Conveyor Belt Replacement	11/09/18	City of Key West		P	\$ -	\$ 38,566	\$ -	\$ 38,566																																
TREND DATA																																								
<b>DESCRIPTION OF TREND</b> Replace existing sludge conveyor (62.55' length) belt (125.10' length), VFD (Schneider Model ATV312HU30N4), and scale (Siemens Milltronics BW100). The design will include additional mechanical, electrical and P&ID drawings.					<u>Overall Construction Cost:</u> <span style="float: right;"><u>Cost</u></span>  Total Construction Cost \$ -																																			
					<u>Design Engineering Cost:</u> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>Hours</u></th> <th style="text-align: center;"><u>Rate</u></th> <th style="text-align: center;"><u>Cost</u></th> </tr> </thead> <tbody> <tr> <td>Senior Project Manager</td> <td style="text-align: center;">4</td> <td style="text-align: center;">\$ 205.00</td> <td style="text-align: center;">\$ 820</td> </tr> <tr> <td>Engineering Manager</td> <td style="text-align: center;">16</td> <td style="text-align: center;">\$ 175.00</td> <td style="text-align: center;">\$ 2,800</td> </tr> <tr> <td>Technical Specialist - Process Mechanical</td> <td style="text-align: center;">30</td> <td style="text-align: center;">\$ 205.00</td> <td style="text-align: center;">\$ 6,150</td> </tr> <tr> <td>Senior Engineer - Electrical</td> <td style="text-align: center;">48</td> <td style="text-align: center;">\$ 158.00</td> <td style="text-align: center;">\$ 7,584</td> </tr> <tr> <td>Senior Engineer - I&amp;C</td> <td style="text-align: center;">42</td> <td style="text-align: center;">\$ 158.00</td> <td style="text-align: center;">\$ 6,636</td> </tr> <tr> <td>Project Engineer - Process Mechanical</td> <td style="text-align: center;">92</td> <td style="text-align: center;">\$ 142.00</td> <td style="text-align: center;">\$ 13,064</td> </tr> <tr> <td>Senior Engineering Technician</td> <td style="text-align: center;">12</td> <td style="text-align: center;">\$ 126.00</td> <td style="text-align: center;">\$ 1,512</td> </tr> <tr> <td colspan="3" style="text-align: right;"><b>Total Engineering Cost</b></td> <td style="text-align: center;"><b>\$ 38,566</b></td> </tr> </tbody> </table>						<u>Hours</u>	<u>Rate</u>	<u>Cost</u>	Senior Project Manager	4	\$ 205.00	\$ 820	Engineering Manager	16	\$ 175.00	\$ 2,800	Technical Specialist - Process Mechanical	30	\$ 205.00	\$ 6,150	Senior Engineer - Electrical	48	\$ 158.00	\$ 7,584	Senior Engineer - I&C	42	\$ 158.00	\$ 6,636	Project Engineer - Process Mechanical	92	\$ 142.00	\$ 13,064	Senior Engineering Technician	12	\$ 126.00
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<b>EFFECT ON SCHEDULE:</b>			<b>EFFECT ON PROJECT COST:</b>			<b>TAKE ACTION INDICATED:</b>																																		
NONE <input checked="" type="checkbox"/> ( X )			NO CHANGE <input type="checkbox"/> ( )			CANCEL <input type="checkbox"/> ( )																																		
ADD TO <input type="checkbox"/> ( )			ADD TO <input checked="" type="checkbox"/> ( X )			INCL. IN PROJECT <input checked="" type="checkbox"/> ( X )																																		
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TYPE OF COST OPINION PREPARED			<input checked="" type="checkbox"/> NONE			<input type="checkbox"/> PRELIMINARY																																		
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<b>IMPACT TO FOLLOWING TYPES OF WORK</b>																																								
AN "X" OR NOTE BESIDE ANY OF THE FOLLOWING DESIGN GROUPS INDICATES THAT WORK SCOPE WILL BE EFFECTED BY THIS CHANGE NOTICE.																																								
CIVIL	_____	ELECTRICAL	_____																																					
SITWORK	_____	CONTROL SYS	_____																																					
ESTIMATING	_____	STRUCTURAL	_____																																					
SPECS.	_____	ARCHITECTURAL	_____																																					
MECH-HVAC	_____	PROCESS	_____																																					
MECH-PROC	_____	SCHEDULING	_____																																					
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PROJ. MGR	Isabel Botero	X	STRUCTURAL			PUMPS																																		
ENG. MGR	Olena Lytvyn	X	ELECTRICAL			PROCESS																																		
			INSTRUMENTATION			GEOTECHNICAL																																		
			MECHANICAL (Process)			ESTIMATING																																		
<b>ATTACHMENTS:</b>			<b>REFERENCES:</b>																																					
LEGEND FOR STATUS A - APPROVED ; D - DISAPPROVED ; P - PENDING ; W - WITHDRAWN																																								