Agenda Item #: 3-C-10

PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: March 12, 2013	[X] Consent [] Workshop	[] Regular [] Public Hearing
Department:		
	ing & Public Works	vision
	XECUTIVE BRIEF	
Motion and Title: Staff recommer amount of \$458,642.81 to resolution the construction of the Ocean Avenue	R2011-1446 with GLF	Construction Corporation for
SUMMARY: Approval of Change Ordextra work required to complete the Change Order is being brought to the the fact that the value exceeds the ap Review Committee as referenced in P	installation of bridge pi Board of County Comm proval authority of the	les at Abutment eight. This issioners for approval due to
District 4 (MRE)		
Background and Justification: The substantially from the borings provided variations in the depths of the hard located approximately 127 feet apart test pile five at Abutment eight and it needed to be replaced. Another test larger hole was cored requiring steel of to equipment and material.	d in the plans. This disc layers of strata encou . GLF Construction Co was damaged due to the pile was damaged afte	crepancy can be attributed to ntered between the borings rporation attempted to drive ne layers of coquina rock and or coring the layer of rock. A
Attachments: 1. Location Sketch 2. Change Order No. 4 w/Attachment 3. Change Order History 4. Schedule 1	: "A "	
Recommended By:	Director	2 26 13 Date
Approved By: County En	J.M. ngineer	Z Z € 13 Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2013	2014	2015	2016	2017
Capital Expenditures	<u>\$458,643</u>	0			0-
Operating Costs	-0-			-0-	-0-
External Revenues	-0-	-0-	0-	-0-	-0-
Program Income (County)	0	-0-	-0-	-0-	-0-
In-Kind Match (County)	_0_	0-	0-	-0-	-0-
NET FISCAL IMPACT	\$458,643		0-	-0-	
# ADDITIONAL FTE					
POSITIONS (Cumulative)	***************************************				

Is Item Included in Current Budget?

Yes X No

Budget Account No:

Fund 3500 Dept 361 Unit 1001-01 Object 6551

Recommended Sources of Funds/Summary of Fiscal Impact:

Transportation Improvement Fund Bridges & Crossings Ocean Ave (Lantana) Bridge Over Intracoastal Waterway

Change Order #4

\$458,642.81

C. Departmental Fiscal Review:

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Dev. and Control Comments:

OFMB # 01/11/11

Contract Dev. and Control

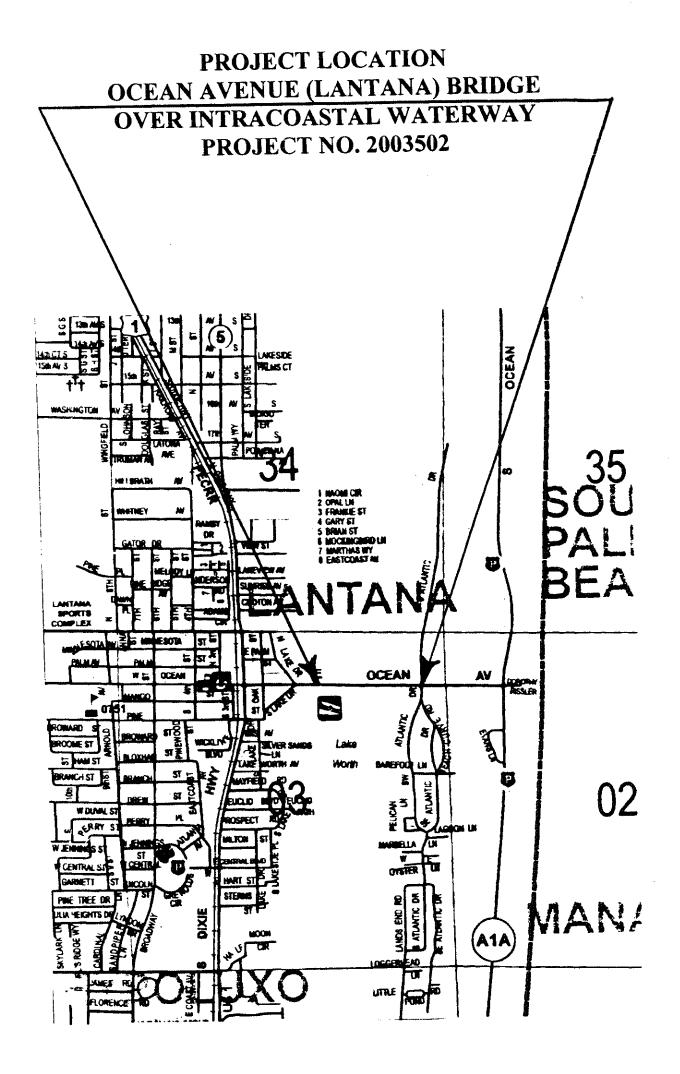
B. Approved as to Form and Legal Sufficiency:

Assistant County Attorney

C. Other Department Review:

Department Director

This summary is not to be used as a basis for payment.



CHANGE ORDER Owner Initiated X Differing Site Conditions Zoning/Code/Ordinance Change Errors/Omissions/In Design	ges	Quantity Overruns/U	Attachment #2 CHMENT NO.: Underruns Agency/Outside Party B = Non-Reimburseable
PROJECT: OCEAN AVENUE BRIDG (Name) INTRACOASTAL WATE TO: GLF Construction Corpora	ERWAY (ation I	CHANGE ORDER NO. COUNTY PROJECT NO CONTRACT DATE: 09 RESOLUTION NO.: R2 DISTRICT NO.: 4	O.: 2003502 / 13/2011
You are directed to make the following Extra Work Abutment8 (Pile Driving)	changes in this Contract:	ITEM TOTAL: TOTAL:	\$ 458,642.81 \$ 458,642.81
The original Contract sum was Net change by previous Change Orders The Contract Sum prior to this Change The Contract sum will be increased/dec The new Contract sum including this C The Contract Time will be changed by The Date of Completion as of the date	Order was	er	\$ 29,681,238.26 \$ 298,687.64 \$ 29,979,925.90 \$ 458,642.81 \$ 30,438,568.71 (0) Zero Days December 1, 2013
EXECUTION OF THIS CHANGE OR CLAIMS FOR, COSTS AND TIME A MODIFICATION(S), INCLUDING AI FROM, CAUSED BY OR INCIDENT ABOVE STATED MODIFICATION(SCONTRACT.	SSOCIATED, DIRECTLY LL CLAIMS FOR CUMUI TO, SUCH MODIFICATIO	OR INDIRECTLY, WIL LATIVE DELAYS OR I ON(S), AND INCLUDI	TH THE ABOVE STATED DISRUPTIONS RESULTING NG ANY CLAIM THAT THE
	GLF Construction Corpor		Board of Co. Commissioner
ENGINEER (If Applicable)	CONTRACTOR	OWNER	-
Address	80 South West 8 th Street Address	P.O.Box Address	21229
	Miami, Florida 33130	1	m Beach, Florida 33416-1229
BY	BY Lie'y.		
DATE	DATE for I	1/	

PALM BEACH COUNTY ENGINEERING AND PUBLIC WORKS



Palm Beach County Ocean Avenue Bridge Replacement Project No. 2003502



Attachment #2
"A" Page 1 of 17

Summary of Abutment 8 Issue

GLF submitted a NOI to file a claim for extra work at Abutment 8 on April 16, 2012 due to unforeseen subsurface conditions that were encountered while driving piles. Field conditions present at Abutment 8, station 24+66 substantially differ from the soil borings that were taken at stations 24+06 and 25+33. The variations appear to be the result of a dramatic reduction in the depth of the coquina that exists in the vicinity of abutment 8. These conditions required the Contractor to incur costs associated with work that is beyond the scope of the original contract. The Contractor is requesting payment of \$483,770.68 due to these unforeseen conditions. Once a finalized cost has been negotiated, it will be partially offset by a \$133,560.00 credit realized from a reduced length of production piles actually used on the job.

Timeline of Events

On April 5, 2012 GLF attempted to drive Test Pile 5 at Abutment 8 (Pile MK-13). During the drive the pile experienced excessive tensile stresses at a depth of -13 significantly above the required minimum tip, -50 feet. The pile was extracted, upon extraction noticeable damaged was observed. The damage to the pile was determined to not be repairable and the pile had to be replaced.

Following FDOT procedures, the Contractor was instructed to pre-form the hole prior to resetting and driving the new test pile. The Contractor followed this procedure using a 30 inch auger to preform the hole to a depth of -30 feet. After auguring the test pile was set and driven approximately 3 feet. During the driving the blow count remained within the allowable tolerance (15 to 20 blows per foot), when a large visible section of the pile spalled off. It appears that this was caused by the edge of the pile hitting the hard coquina layer.

In order to clear and remove all possible obstructions to driving the pile, the Contractor was instructed to obtain a 36" auger as required by FDOT specifications for installing piles in rock. The Contractor augured the hole but was unable to set the pile as the augered hole continually filled up with material. This was initially attributed to caving in of the loose material above the rock layer. The Engineer recommended that a casing be installed to prevent caving in of the loose material. Three 14 foot casings were obtained. After setting the casing the auger was unable to maintain a clean hole within the casing. This condition prevented the setting and driving of a pile. It was later determined that the filling of the hole was due to the existence of a previously unobserved high hydrostatic pressure that was released after augering through the coquina layers.

Prior to proceeding the Geotechnical Engineer was contacted and a 100 foot boring was taken at the center of Abutment 8. This area was not available for obtaining a boring at the time of design due to the existence of the bridge abutment. The boring showed the presence of 3 extremely hard layers, 1st layer is at 2 foot thick coquina layer at elevation -5 feet, the 2nd layer is approximately 15 feet thick and starts at elevation -12 feet, the 3rd hard layer is approximately 10 feet thick at located at elevation -64 feet. Using this information pile lengths for both the end abutment and the steel sheet piling were able to be reduced.

Per the EOR recommendations the 38" O.D. casing was installed to the top of the second hard layer and the test-pile hole cleaned out to an elevation of -43 feet. Measurements were taken after preforming showing a clean hole of -38 feet. After rigging and placement of 24" square pile the hydrostatic pressure filled in the hole to 13 feet below the top of the casing. The Contractor was unable to set the pile below the second hard coquina layer and was unable to reach minimum tip elevation by driving the pile. The pile was subsequently removed.



Palm Beach County Ocean Avenue Bridge Replacement Project No. 2003502



Attachment #2
"A" Page 2 of 17

A fifth and final attempt was made to install the test pile (8-5) using the following procedure:

- Preform the test pile hole with the 36" auger
- Install the steel casing to a minimum of 2 feet below the 2nd hard coquina layer
- Remove all earth and debris within the casing
- · Set an air jet into performed hole
- Place pile into performed hole
- Air jet the pile to 5 feet below the 2nd hard layer
- Remove casing
- Drive pile to the required resistance

The use of the pile jetting procedure required the approval of the engineer as this was the only practical method of overcoming the high hydrostatic pressure. After the successful installation of the test pile on August 1, 2012, the same construction techniques were used for the remaining production piles with the contractor purchasing additional casings to speed up the installation. The remaining (9) nine productions piles were completed on September 13, 2012.



April 16, 2012

E C Driver 323-B East Ocean Avenue Lantana, FL 33462

Hand Delivery

Atta:

David Holden P.E., Senior Project Engineer

Re:

Ocean Avenue (Lantana) Bridge over Intracoastal Waterway

Project No.: 2003502

Subject:

Notice of Intent to Claim; "For the Performance of Unforeseeable Work as a Direct Result of the Different Site Conditions Encountered while Driving Test Pile

No. 5 at End Bent No. 8".

Our Reference: 390/036/AS

Dear Mr. Holden.

Please consider this letter as GLF Construction Corporation's Notice of Intent to Claim in accordance with the provisions of Article 5-12 of the Standard Specifications as amended by the General Provisions to the Contract, for the performance of Unforeseeable Work as a direct result of the Different Site Conditions encountered while attempting to drive test pile no. 5 at end bent no. 8 under the directions and supervision of the Engineer.

GLF will seek full compensation under the provisions of the Contract Documents for those costs incurred, and contract time extension equal to the time spent in the performance of the above mentioned activity, and any other time delay this time extension may have on other subsequent scheduled activities. These costs will include, but not be limited to, labor, equipment, materials, engineering, subcontractor's expenses and any and all other unforeseeable additional charges related to this alteration to the Contract Schedule.

Sincerely,

GLF CONSTRUCTION CORPORATION

Andres N. Sosa, Project Manager

cc: 390 File: 0201, 0501, Michael Miles, GLFVP. Ernie Howard, Operation VP, William Junkin, GLF VP,

Ocean Avenue (Lantana) Project Office 323-A East Ocean Avenue, Lantana, Florida 33462 • Tel.: (561) 588-5361 • Fax: (561) 588-5435 www.glfusa.com



Palm Beach County East Ocean Avenue Replacement Project Project No. 2003502



Mr. Andres Sosa GLF Construction Corporation 323 A East Ocean Avenue Lantana, FL 33462

Project No.: 2003502 County: Palm Beach

Description: Ocean Avenue Bridge Replacement

April 18, 2012

RE: Notice of Intent to Claim No. 03 - Performance of Unforeseen Work at End Bent 8

Dear Mr. Sosa,

This is written to acknowledge receipt of your hand delivered letter dated April 16, 2012, wherein you informed us of your intent to file a claim for Additional Compensation and Contract Time Extension due to the performance of alleged unforeseen work at End Bent 8.

Should you plan to drop the claim, please notify us in writing indicating that the claim has been abandoned. Should you plan to pursue the claim, provide a complete claim package including the following information:

- 1. A detailed factual statement of the claim providing all necessary dates, locations, and items of work affected and included in each claim;
- 2. The date or dates on which actions resulting in the claim occurred or conditions resulting in the claim became evident;
- 3. Identification of all pertinent documents and the substance of any material oral communications relating to such claim and the name of the persons making such material oral communications;
- 4. Identification of the provisions of the Contract which support the claim and a statement of the reasons why such provisions support the claim, or alternatively, the provisions of the Contract which allegedly have been breached and the actions constituting such breach;
- 5. A detailed compilation of the amount of additional compensation sought and a breakdown of the amount sought as follows:
 - Documented additional job site labor expenses;
 - · Documented additional cost of materials and supplies;
 - Provide, a list showing all equipment (other than small tools) for which the Contractor may request compensation, equipment identification number with serial number, manufacturer, year manufactured, model and description.
 - A list of additional equipment costs claimed, including each piece of equipment and the rental rate claimed for each;
 - · Any other additional direct costs or damages and the documents in support thereof;
 - Any additional indirect costs or damages and all documentation in support thereof.
- 6. A detailed compilation of the specific dates and the exact number of calendar days sought for a time extension, the basis for entitlement to time for each day, all documentation of the

EC Driver & Associates - 323 B East Ocean Avenue Lantana, Fl. 33462



delay, and a breakout of the number of days claimed for each identified event, circumstance or occurrence.

- 7. On a weekly basis, provide the Project Administrator a copy of the Contractor's Daily records. (5-12.7 Mandatory Claim Record) ".....The Contractor shall, once a notice of intent to claim has been timely filed, and not less than weekly thereafter as long as appropriate, provide the Engineer a copy of the Contractor's daily records and be likewise entitled to receive a copy of the Department's daily records...."
- 8. The Contractor will be required to certify the Claim by an officer or director with the authority to bind the Contractor as described by **5-12.9**, **Certificate of Claim**.

Should you have any questions concerning this correspondence, please contact me at your earliest convenience. We would like to address and close this matter as soon as possible.

EC Driver & Associates, Inc.

David Holden, P.E. Project Engineer

cc: Kristine Frazell-Smith, P.E. Palm Beach County Construction Manager John Kopelakis, P.E., Chief Construction Coordinator Ellis Ross, Director Palm Beach County Environmental Luis Costa, P.E., EC Driver & Associates Project Manager File

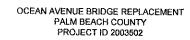




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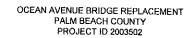


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JLG 600SJ Manlift		\$ 2,178.81				-	\$ 2,178.81				-	+		\vdash		+	-	++		╁	+
Kobelco SK350LC Crawler Exc		\$ 2,162.05				-	\$ 2,162.05										<u> </u>	++			+
Kobelco SK260-9 Crawler Exc		\$ 1,999.53	***		 · · · · · · ·	-	\$ - \$ 1,999.53		+-			+		\dashv		- -		++	+		\mp
185 CFm Compressor		\$ 2,127.46				-	\$ 2,127.46									_		++		\coprod	+
TOTA	L RENTAL EQUI	PMENT	101,5 (80 ₀ ,5)		Miler Legal Call Ca		\$ 47,785,35	das di rajidaje	1								 -	₩			
SUBCONTRACTORS - Labor	& Equipment	1			<u> </u>	3.2	41,760.30	BAAA BAAAA				-		197				++			
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MATERIALS		Qty	Rate			I	Cost		18, 16	A		اا						تلند	2 (3.5)		1.0
K&D EQUIP CO. Invoice # 12-297	Auger					 	\$520.00		T			T I		\dashv	- 3		1	т-г			
Cert Slings Inc Inv #9002906	Repl teeth					L	\$455,46					11				∤	 -	· -	+		
Cert Slings Inc inv #9003146	poly siings	<u> </u>					\$275.39				ı	1 1				ŀ					
Infra-Metals Inv# 310747	6x6x3 angle						\$1,013.00	ļ	1	—-t	··	╁─┼				+		+-+		-	
Infra-Metals Inv# 310748	14x74 angle						\$8,160.11	1	+			- 					 		-		
Air Jet Fitting & Hose						İ	\$882.15	i	1 1				1	- 1	- 1		ļ			.	
SouthEastern Prestressed Concrete	80 & 75ft piles						\$31,299.38						T			┪	ļ ··			_	+
Action Bolt & Tool Inv #3253585	screws		İ				\$72.50	[1 1					1		-					
Action Bolt & Tool Inv #3262087	Ероху	j				Į	\$132.50]	- 1				- 1		-			}		
Action Boit & Tool inv #3264364	screws					1	\$92.92	<u> </u>	1			+					 	 		-+	
	lockwashers				~		\$6.36	<u> </u>	1								ł	+			
Action Bolt & Tool Inv #3275913							\$6.78	1				1 1				[İ	
Action Bolt & Tool Inv #3275913 Action Bolt & Tool Inv #3275914	Flat Washers]																	- 1	3
Action Bolt & Tool Inv #3275913 Action Bolt & Tool Inv #3275914 P&M Welding Supply Inv # 89095												1							+		
Action Bolt & Tool Inv #3275913 Action Bolt & Tool Inv #3275914 P&M Welding Supply Inv # 89095 Pile Equipment Inv #27316	Flat Washers Weld rods Shear Fender		.,				\$215.10														-
Action Bolt & Toel Inv #3275913 Action Bolt & Toel Inv #3275914 P&M Welding Supply Inv # 89095 Pile Equipment Inv #27316 Pile Equipment Inv #27318	Flat Washers Weld rods							i								+					+





Abutment 8 Unforeseen Work - ECDriver Summary of Hours

Sum	ma	ry		
			Allowable	
		Sub-total	Markup	 Sub-Total
Labor	\$\$	71,050.03	20.00%	\$ 85,260,04
AW Equipment		245,258.21	0.00%	\$ 245,258.21
Rental Equipment	65	47,785,35	0.00%	\$ 47,785.36
Subcontractor	49	1,460,00	0.00%	\$ 1,460.00
Material	\$	51,722.27	15.00%	\$ 59,480.61
		Subtotal	0.00%	\$ 439,244,21
		Mark up	10.00%	\$ 19,398.60
		Bond	1.36%	\$ 6,879.64
			Total:	\$ 465,522.45

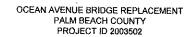
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193,986.00 **458,642.81**



ECDriver

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Cartwright, Keith	Position Foreman	 -	+	-		├				+_	ل		1	<u> </u>	ļ		↓														1.	T		\top	1	T
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Watson Jr., John	Laborer	<u> </u>	- 10		+	╁┈┟╴		-+-		+	10		+	111	11	9	-	8	40	10-	40	40	_		_		.				1	<u> </u>	<u> </u>			_]
Dalosio, Richard	Operator		10	l	2	11		1	-		3	l		''	1''	9	[l °	10	10	10	101	10	8.5	3	10	10	10	11	11.5	10	10.5	5	5	5	_
Liburd, Lawrence	Operator				2		ŀ	-	ĺ				1		ĺ	i]				- 1		ŀ	2	ı			Ì	1	İ			1
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Graham, Willle	Runner		<u> </u>	L	2	L					2			1	1					l	m			-1			-	_			— —			1	 	+
Umana, Juan	Welder									1]	7				8	10			5	10	10	10	8.5	1	10	- 1				<u> </u>	F	2	+	\vdash	-
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Schuler, Keelan	Laborer	10				\vdash					ļ.,_		_	ļ	L				10					_								1		╁	† ₹-	十
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rge, Spud, MOBRO 1218							 		-	\sqcup			\sqcup																						-	1
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rge, Spud, MOBRO 1209			-			-		+-	╫	╁╌┤						}		\rightarrow				—	\dashv	[_[Γ^{-}
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	30	31	1	2	3	4	6	7 8	9	10	11	13	14	15	16	17	18	20	21	22	23	24	25	4	5	6	7	8	10	11	12	13	14	20	2
COMPANY OWNED EQUIPMENT													*******			•				<u> </u>				-							<u> </u>		1		1
Crew Boat (Jon Boat)	4	4	4	4	4	4	4	4 4	4 4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		5.5	8	10.5	5	2	2	Т
Welder, stick, 300 amp, 26 hp (Miller)	10	10	8		5 2				3 4	5 5	5 5.5	4	6	11	10	7	4	5 5	8	8 2	10	8	8.5		10	10	6	11.5	11.5	10	8	5		<u> </u>	-
Nelder, stick, 300 amp, 26 hp Lincoln)								2	2	2	0	4	<u> </u>	_	5	7		<u> </u>	5	8	10	8	8.5			10						<u> </u>		5	H
Ford Transit Connet (Survey)	3	0.5	F					1					2	<u> </u>	Ž	Ů	3 5	4	2	2	2	4	4	5		\exists			1	1_	<u> </u>	<u> </u>	***************************************		1
Diesel Generator Ingersol Rand	8	8	2 8	2	5	4	2 :	2 2		1 8	1 8	8	1																						\vdash
Sullair Air Compressor (49Hp 185)		-	1 4.5	, °	-	3 .		0 0	10	8	- 6 -	8	8	8	8	0	8	8	8	8	8 4 6	8 4	2	5	8	8	8	8 1,5	8 11.5	8 4	10.5	5	5	5	
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orta lets	1	1	1	1	1	1		1 1	1	1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	H	1	⊢
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RENTAL EQUIPME	NT	<u> </u>																															1.		<u>—</u>
Apre D75 Auger, 60'x37" Leads, cetralizer, 350 PU	1																																		Γ
J&M 44 Vibro with Power Pack from		<u> </u>	+-	 	+	1 +		+	+	-+-			+		+		-		 	├	 -		-	-					<u> </u>		L	ļ		_	$oldsymbol{\perp}$
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HPSI 500 Vibro w/PU (Delivery)			Ľ	<u> </u>							-	-						9				9	7	-	_	_	_						 -	-	┝
JLG 600SJ Manlift	<u></u>	-	<u> </u>	\vdash	十一	\vdash		+	\Box	+	+			+-	<u> </u>					-	-	-	+		\dashv	-	\dashv								\vdash
Kobelco SK350LC Crawler Exc					ļ		+	-					-	+	<u> </u>							+	+	1	_	+	+					_			⊢
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SUBCONTRACTORS - Labor	E RENTAL EQUIP	1	60.		1		10 K 21	 		_		<u> </u>		1					38.57							100				e egil					
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MATERIALS																							-				نبابنن							4-300 mg-	
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nfra-Metals Inv# 310747	poly silngs 6x6x3 angle	_		!	l—i	<u> </u>		_	ļ	\bot	—	L_		ļ	l																				l
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Action Bolt & Tool Inv #3264364	screws lo:kwashers					— 		↓	ļ ļ.		_			<u> </u>	ļ							T				.]									
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2&M Welding Supply Inv # 89095	Weld rods		├ 		 		+		$\vdash \downarrow$	-	-			<u> </u>	ļ						<u> </u>					4_									100 00
Pile Equipment Inv #27316	Shear Fender		 				- H	+		+	+		-[ļ	ļi		+						\bot	+		.									
Pile Equipment Inv #27318	move/fix jaw AL I/ISCELLANE(\perp					<u> </u>	Ш		_				L																l	ĺ			



Abutment 8 Unforeseen Work - ECDr	Aug-12	Sep-12
30 31	1 2 3 4 6 7 8 9 10 11 13 14 15 16 17 18 20 21 22 23 24 25 4 5 6 7 8	10 11 12 13 14 20 21

Crane, Crawler (American 9299) Crane, Crawler (American 9310-A) Hammer, clesel, APE D46-42 with leads Viberator Hammer, ICE 815 Hammer, vibratory APE 50 HSPI 450 (500) Vibro w/P.U. Tug Boat Barge, Spud, MOBRO 1213 Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5	Abutment 8 Unforeseen V	Nork - ECD					
Name			22	27			T
Cartwright, Keith Goodale, William Operator 1.5 Bethell, Kevin Laborer 1.5 Bethell, Kevin Laborer 1.5 Dethell, Kevin Laborer 1.5 Dethell, Kevin Laborer 1.5 Dethell, Kevin Laborer 1.5 Dethell, Kevin Laborer Dethell, Kevin Laborer Dethell, Kevin Laborer Dethell, Carte	LABOR	A GASA PERSEAN	†			*	
Goodale, William Bethell, Kevin Bethell, Kevin Bethell, Kevin Laborer 1.5	Name	Position		T "			T
Bethell, Kevin Bethell, Kevin Bethell, Kevin Laborer Laborer Sethell, Kevin Laborer Sethell, Kevin Laborer Sethell, Kevin Laborer Sethell, Kevin Laborer Sethell, Kevin Sethell, Kev	Cartwrlght, Keith	Foreman					
Bethell, Kevin Laborer 1.5	Goodale, William	Operator	•	1.5			1
Watson Jr., John Dalosio, Richard Liburd, Lawrence Operator Osuna, Carlos Welder Rios, Edgardo Rios, Edgardo Rios, Edgardo Rios, Edgardo Graham, Willie Umana, Juan Triana, Luls Laborer Laborer Schuler, Keelan Rodman Lamoureux, Ketih Laborer TOTAL LABOR COMPANY OWNED EQUIPMENT Crane, Crawler (American 9310-A) Hammer, ICE 815 Hammer, vibratory APE 50 HSPI 450 (500) Vibro w/P.U. Tug Boat Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5	Bethell, Kevin	Laborer	l	1.5			1
Dalosio, Richard Liburd, Lawrence Operator Operator Operator Osuna, Carlos Rios, Edgardo Rios, Edgardo Rios, Edgardo Laborer Garaham, Willie Runner Umana, Juan Triana, Luis Laborer 1.5 Triana, Luis Laborer Rodman Lamoureux, Keith Laborer TOTAL LABOR COMPANY OWNED EQUIPMENT Crane, Crawler (American 7260) Crane, Crawler (American 9310-A) Hammer, ICE 815 Hammer, vibratory APE 50 HSPI 450 (500) Vibro w/P.U. Tug Boat Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5							
Liburd, Lawrence	Watson Jr., John	Laborer		1.5		i –	
Liburd, Lawrence	Dalosio, Richard	Operator					
Osuna, Carlos Welder Rios, Edgardo Laborer 6 1.5							
Rios, Edgardo Laborer 6 1.5	Osuna, Carlos						1
Graham, Wilite Umana, Juan Welder Triana, Luls Laborer Triana, Luls Laborer Schuler, Keelan Rodman Lamoureux, Keith Laborer TOTAL LABOR TOTAL LA		Laborer	6	1.5	_		
Graham, Wilite Umana, Juan Welder Triana, Luls Laborer Triana, Luls Laborer Schuler, Keelan Rodman Lamoureux, Keith Laborer TOTAL LABOR TOTAL LA		Laborer					1
Umana, Juan Triana, Luls		Runner			.,		
Triana, Luls Laborer 1.5 Schuler, Keelan Rodman Lamoureux, Keith Laborer TOTAL LABOR			I	Ι.			ļ
Triana, Luls Laborer Schuler, Keelan Rodman Lamoureux, Keith Laborer TOTAL LABOR	·		ł	1.5			
Schuler, Keelan Rodman Laborer TOTAL LABOR			t				-
Lamoureux, Keith Laborer TOTAL LABOR			1				
TOTAL LABOR COMPANY OWNED EQUIPMENT				H	\vdash		
COMPANY OWNED EQUIPMENT Crane, Kobelco CK2500 II 1.5 Crane, Crawler (American 7260) Crane, Crawler (American 9299) Crane, Crawler (American 9310-A) Hammer, Clesel, APE D46-42 with leads Viberator Hammer, ICE 815 Hammer, vibratory APE 50 HSPI 450 (500) Vibro w/P.U. Tug Boat 1.5 Barge, Spud, MOBRO 1213 Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5			100	100			
Crane, Kobelco CK2500 II 1.5 Crane, Crawler (American 7260) 1.5 Crane, Crawler (American 9299) 1.5 Crane, Crawler (American 9310-A) 1.5 Hammer, classel, APE D46-42 1.5 with leads 1.5 Viberator Hammer, ICE 815 1.5 Hammer, vibratory APE 50 1.5 HSPI 450 (500) Vibro w/P.U. 1.5 Tug Boat 1.5 Barge, Spud, MOBRO 1213 1.5 Barge, Spud, MOBRO 1218 1.5 Barge, Spud, MOBRO 1209 1.5 Service Barge (12 sec 10'x40') 1.5							8.55.25.5
Crane, Crawler (American 7260) Crane, Crawler (American 9299) Crane, Crawler (American 9310-A) Hammer, cllesel, APE D46-42 with leads Viberator Hammer, ICE 815 Hammer, vibratory APE 50 HSPI 450 (500) Vibro w/P.U. Tug Boat Barge, Spud, MOBRO 1213 Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5	Crane, Kobelco CK2500 II			1.5		_	l.
Crane, Crawler (American 9299) Crane, Crawler (American 9310-A) Hammer, clesel, APE D46-42 with leads Viberator Hammer, ICE 815 Hammer, vibratory APE 50 HSPI 450 (500) Vibro w/P.U. Tug Boat Barge, Spud, MOBRO 1213 Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5							*
Crane, Crawler (American 9310-A) Hammer, clesel, APE D46-42 with leads Viberator Hammer, ICE 815 Hammer, vibratory APE 50 HSPI 450 (500) Vibro w/P.U. Tug Boat Barge, Spud, MOBRO 1213 Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5	Crane, Crawler (American 7260)						
Hammer, diesel, APE D46-42 with leads Viberator Hammer, ICE 815 Hammer, vibratory APE 50 HSPI 450 (500) Vibro w/P.U. Tug Boat Barge, Spud, MOBRO 1213 Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5	Crane, Crawler (American 9299)				_		
with leads Viberator Hammer, ICE 815 Hammer, vibratory APE 50 HSPI 450 (500) Vibro w/P.U. Tug Boat Barge, Spud, MOBRO 1213 Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5	Crane, Crawler (American 9310-A)						
Viberator Hammer, ICE 815 Hammer, vibratory APE 50 HSPI 450 (500) Vibro w/P.U. Tug Boat Barge, Spud, MOBRO 1213 Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5	Hammer, diesel, APE D46-42						-
HSPI 450 (500) Vibro w/P.U. Tug Boat Barge, Spud, MOBRO 1213 Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5		-,					
Tug Boat 1.5 Barge, Spud, MOBRO 1213 1.5 Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5	Hammer, vibratory APE 50						
Barge, Spud, MOBRO 1213 1.5 Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5	HSPI 450 (500) Vibro w/P.U.						
Barge, Spud, MOBRO 1218 Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5	Tug Boat			1.5			
Barge, Spud, MOBRO 1209 Service Barge (12 sec 10'x40') 1.5	Barge, Spud, MOBRO 1213			1.5	-		<u> </u>
Service Barge (12 sec 10'x40') 1.5	Barge, Spud, MOBRO 1218						
	Barge, Spud, MOBRO 1209						
Carpenter Barge 1.5	Service Barge (12 sec 10'x40')			1.5			
	Carpenter Barge			1.5			



ECDriver

	22	27			
COMPANY OWNED EQUIPMENT					
Crew Boat (Jon Boat)		1.5			
Welder, stick, 300 amp, 26 hp (Miller)					
Welder, stick, 300 amp, 26 hp (Lincoln)					
Ford Transit Connet (Survey) van		-			
Diesel Generator Ingersol Rand 7.2 KW				\dashv	
Sullair Air Compressor (49Hp 185)			-		
Connexes		1			
Porta lets		1	+		
TOTAL EC	UIPMEN	1			



		22	27	Т	T		Т
RENTAL EQUIPME	NT	† 	,,	_			
Apre D75 Auger, 60'x37" Leads, cetralizer, 350 PU							
J&M 44 Vibro with Power Pack from Ape				†	1		
HPSI 500 Vibro w/PU (Delivery)		上	\vdash	╁	╀		-
JLG 600SJ Manlift				F	1		
Kobelco SK350LC Crawler Exc				\vdash		_	_
Kobelco SK260-9 Crawler Exc				H	┝		-
185 CFm Compressor					F		
TOTA	L RENTAL EQUIP			-	<u> </u>		_
SUBCONTRACTORS - Labor 8	L ACIVIAL EQUIP & Equipment					-	4
Name/Type	Title	-	<u> </u>	H	├	_	
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MATERIALS	L SUBCONTRAC				5_700 5_700 5_700 5_700		
MATERIALS (&D EQUIP CO, Invoice # 12-297	Auger				2.70.0		
MATERIALS (&D EQUIP CO. Invoice # 12-297 Cert Slings inc Inv #9002906	Auger Repl teeth				3-2-2-3		
MATERIALS (&D EQUIP CO. Invoice # 12-297 Cert Slings Inc Inv #9002906 Cert Slings Inc Inv #9003146	Auger Repl teeth poly slings				2-N.A.		
MATERIALS (&D EQUIP CO. Invoice # 12-297 Cert Slings Inc Inv #9002906 Lert Slings Inc Inv #9003146 Infra-Metals Inv# 310747	Auger Repl teeth poly slings 6x6x3 angle				- No.		
MATERIALS (&D EQUIP CO. Invoice # 12-297 Cert Slings Inc Inv #9002906 Cert Slings Inc Inv #9003146 Infra-Metals Inv# 310747 Infra-Metals Inv# 310748	Auger Repl teeth poly slings			À:			
MATERIALS (&D EQUIP CO. Invoice # 12-297 Cert Slings Inc Inv #9002906 Cert Slings Inc Inv #9003146 Infra-Metals Inv# 310747 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748	Auger Repl teeth poly slings 6x6x3 angle			À.	- No.		1200
MATERIALS (&D EQUIP CO. Involce # 12-297 Dert Silings Inc Inv #9902908 Cert Silings Inc Inv #9003148 Infra-Metals Inv# 310747 Infra-Metals Inv# 310748 Air Jet Fitting & Hose SouthEastern Prestressed Concrete	Auger Repl teeth poly slings 6x6x3 angle 14x74 angle 80 & 75ft piles						
MATERIALS (&D EQUIP CO. Invoice # 12-297 Cert Slings inc Inv #9002906 Cert Slings Inc Inv #9003146 Infra-Metals Inv# 310747 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748	Auger Repl teeth poly slings 6x6x3 angle 14x74 angle 80 & 75ft piles screws				U.V.A.		
MATERIALS (&D EQUIP CO. Invoice # 12-297 Dert Slings Inc Inv #9002908 Cert Slings Inc Inv #9003146 Infra-Metals Inv# 310747 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# Jugged In	Auger Repl teeth poly slings 6x6x3 angle 14x74 angle 80 & 75ft piles screws Epoxy						
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MATERIALS (&D EQUIP CO. Invoice # 12-297 Cert Silings Inc Inv #9002908 Lert Silings Inc Inv #9003148 Infra-Metals Inv# 310747 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 310747 Infra-Metals Inv# 310748 Infra-Metals Inv# 310748 Infra-Metals Inv# 3263585 Infra-Metals Inv# 3253585 Infra-Metals Inv# 3253585 Infra-Metals Inv# 3264364 Infra-Metals Inv# 3275913 Infra-Metals Inv# 3275914	Auger Repl teeth poly slings 6x6x3 angle 14x74 angle 80 & 75ft piles screws Epoxy	23:32					
MATERIALS (&D EQUIP CO. Invoice # 12-297 Jert Slings Inc Inv #9002908 Jert Slings Inc Inv #9003148 Jert Slings Inc Inv #310747 Jert Slings Inc Inv #310748 Jert Slings Inc Inv #310748 Jert Slings Inc Inv #310748 Jert Slings Inc Inv #32753585 Jert Slings Inc Inv #3253585 Jert Slings Inc Inv #3262087 Jert Slings Inv #3264364 Jert Slings Inv #3275913 Jert Slings Inv #3275914 Jert Slings Inv #3275914 Jert Slings Inv #3275914 Jert Slings Inv #3275914 Jert Slings Inv #3295914 Jert Slings Inv #3295914 Jert Slings Inv #3295914 Jert Slings Inv #3295914 Jert Slings Inv #3295914 Jert Slings Inv #3295914 Jert Slings Inv #3295914 Jert Slings Inv Inv #3295914	Auger Repl teeth poly slings 6x6x3 angle 14x74 angle 80 & 75ft piles screws Epoxy screws lockwashers						100000
TOTA MATERIALS (&D EQUIP CO. Invoice # 12-297 2ert Slings inc inv #9002908 2ert Slings inc inv #9003146 Infra-Metals inv# 310747 Infra-Metals inv# 310748 Infra-Metals inv# 310748 Infra-Metals inv# 310748 Infra-Metals inv# 310748 Infra-Metals inv# 310748 Infra-Metals inv# 310748 Infra-Metals inv# 310748 Infra-Metals inv# 3202087 Infra-Metals inv# 3253585 Infra-Metals inv# 3253585 Infra-Metals inv# 3262087 Infra-Metals inv# 3275913 Infra-Metals inv# 3275913 Infra-Metals inv# 3275914 Infra-Metals inv# 3275914 Infra-Metals inv# 327316 Infra-Metals inv# 327316 Infra-Metals inv# 327318 Infra-Metals inv# 327318	Auger Repl teeth poly slings 6x6x3 angle 14x74 angle 80 & 75ft piles screws Epoxy screws lockwashers Flat Washers						10000



thment #2 page 17 of 17 OCEAN AVENUE BRIDGE REPLACEMENT PALM BEACH COUNTY PROJECT ID 2003502



Abutment 8 Unforeseen Work - ECDr

PALM BEACH COUNTY PROJECT Ocean Avenue Bridge over Intracoastal Waterway; Project No. 2003502 C.O. # DATE APPROVED COUNTY ENGINEER C.R. COMMITTEE TOTAL DEPT. & C.R. APPROVALS BOARD OF CO. COMM. AMOUNT TIME AMOUNT AMOUNT TIME AMOUNT TIME TIME 9/13/2011 154,000.00 0 6/13/2012 51,498.19 2 0 3 2/13/2013 93,189.45 7 TOTAL 0.00 144,687.64 144,687.64 7 0.00 CUMULATIVE TOTAL 144,687.64 144,687.64 7 SINGLE AMT. SINGLE AMT. \$50,000.00 \$100,000.00 MAXIMUM CUMULATIVE MAX. CUM. As of PPM CW-F-050 MAX. AMT. MAX. TIME MAX. AMT. MAX. TIME CO. ENG. & C.R. COMM. CO.ENG.&C.R Dated June 1, 2011 \$250,000.00 or 30 DAYS \$250,000.00 or 90 DAYS \$250,000.00 or 5% of contract 120 DAYS 5% of contract 5% of contract



SCHEDULE 1

LIST OF PROPOSED SBE-M/WBE SUBCONTRACTORS CHANGE ORDER WORK

PROJECT NAME: Ocean Ave (Lan	Over Intracoa	stal Waterway	PROJECT NO. 2003	3502			
NAME OF GENERAL CONTRACTO	R GLF Const	ruction Corpor	ation	_ CONTACT PERSON_	Andres N. Sosa		
PHONE NO: (561) 588-5361		c	CP #:			•	
	PLE	ASE IDENTIF	Y ALL APPLICA	BLE CATEGORIES OF	SUBCONTRACTORS	6	
	(Check one or both Categories)						
Name, Address and Phone Number	Minority Business	Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
1. Engecon Construction, Inc. 2290 10th Ave, Suite 408 Lake Worth - FL 33451 (let. 321-231-8872)		V	\$ 0.00	\$ 0.00	\$ 1,460.00	\$ 0.00	\$ 0.00
2			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	s 0.00
3.			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
4			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
5			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
(Please use additional sheets if necessary)		Total	s 0.00	s 0.00	s 1,460.00	\$ 0.00	\$ 0.00
Change Order Price \$ 458,642.81		Total Value of	SBE Participation	1.460.00	MANDE Dostinio		