

Memorandum



Date:	<u>6/2/21</u>	To:	<u>Terrence Bailey</u>
From:	<u>Phoebe Cuevas Molina</u>	Office:	<u>West Palm Beach</u>
Project Name:	<u>Palm Beach Isles Bridges</u>	Project No.:	<u>60330.01</u>
Subject:	<u>Change Order #1</u>	Copy:	<u>Dana Gillette, Simon Coleman</u>

Brothers' Construction, Inc. (BCI) is requesting a change order for \$1,070,503.39 and 115 additional days for the following items:

1. Staked turbidity barriers to meet USACE requirements
 - As required by the USACE, a barrier is needed to prevent construction turbidity and other debris from flowing into adjacent waters. The barrier must be maintained at a small 2' distance from the existing seawall, must not impact the seabed where protected seagrasses may be present, and must adjust with the tidal fluctuations. Stakes were added to each side of the barriers to prevent the barrier from dragging across the canal floor and damaging the protected seagrass and floating barriers were used that adjust with the water level. The change order request is for \$14,439.83.
2. T-pile reconstruction and tie in efforts at Island Drive End Bent 1
 - Latent conditions of the existing seawall adjacent to the project required repair in order to continue work. Conditions and repairs were addressed under RFI #008 by Alan Gerwig Associates (AGA). AGA evaluated the change order request and recommended the approval of the request for \$7,280.20.
3. Additional asphalt paving at Island Drive
 - The City elected to expand the scope of the project at the suggestion of the residents to include new asphalt on the entire entry roadway. New asphalt will be installed on Island Drive from Coral Way to A1A. The change order request is for \$29,169.62.
4. Installation of utility conduits and tree removal at Island Drive
 - The existing overhead utilities must be relocated temporarily to accommodate the construction effort. As a part of the relocation, underground conduits are needed to maintain service to all homes and existing vegetation must be removed to allow installation of the temporary poles and lines. These items are needed to allow the relocation of the utility lines encroaching on the construction area across Island Drive. The change order request is for \$12,602.28.
5. Construction and installation of removable walls for the Island Drive bridge planters
 - Due to erosion concerns, removable walls were accepted for placement on the Island Drive bridges to contain the soil and hedge material in the planters as well as allow future maintenance of the utility pipes in those planters. The change order request is for 23,180.42.
6. Redesign of the Grand Bahama bridges to use a temporary bridge rather than a permanent bridge that required additional right of way.

- Per City direction and homeowner association approval, the Grand Bahama bridges were redesigned following residents' requests for changes. The change order request is for \$983,831.04 and 115 additional days of construction. This includes a large number of different components generally described as follows:
 - Efforts to secure and establish a temporary staging area for equipment to store equipment that was not able to be used continuously as originally anticipated.
 - Costs to maintain construction office and staff associated with the additional 115 days of construction time.
 - Equipment costs associated with the additional 115 days of construction time.
 - Coordination of utilities for temporary and permanent relocations of existing facilities.
 - Installation of temporary asphalt, road plate, and barrier for use during construction associated with the temporary bridge.
 - Two additional lane shifts to remove the temporary bridge.
 - Installation of a staked floating turbidity barrier to comply with USACE requirements to protect seagrasses.
 - Inflation costs associated with the 115 days of additional construction time.
 - Asphalt paving for 50' each side of bridge.
 - Installation of utility conduits west of bridge to accommodate temporary service to the two homes adjacent to the bridge.
 - Installation and removal of piles, pile caps, bridge decks, and barrier wall for the temporary bridge for use during construction only.
 - Installation of security fencing for homeowners adjacent to bridge.
 - Installation of replacement hedges and tress for homeowners adjacent to bridge.
 - Purchase of boat covers for homeowners adjacent to bridge.

These change order items were required to construct an environmentally aware, safe and aesthetically pleasing project. The costs for the work were evaluated by the civil and structural engineers on the design team and found to be in line with expectations and industry standards. Erdman Anthony recommends City Council approval of \$1,070,503.39 and 115 additional days.

Attachments

1. BCI change order requests and invoices

Change Order Summary

Change Order No.	Topic	Amount Requested	Status/Notes
1	Turbidity barriers	\$14,439.83	Approved by EA
2	Wall repair	\$7,280.20	Approved by AGA
3	Asphalt paving	\$29,169.62	Approved by CORB
4	Conduits and trees	\$12,602.28	Approved by EA
5	Removable walls	\$23,180.42	Approved by EA
6	Grand Bahama Redesign	\$983,831.04	
Total		\$1,070,503.39	

Memorandum

Request #2



Date:	<u>4/9/21</u>	To:	<u>Terrence Bailey</u>
From:	<u>Phoebe Cuevas Molina</u>	Office:	<u>West Palm Beach</u>
Project Name:	<u>Palm Beach Isles Bridges</u>	Project No.:	<u>60330.01</u>
Subject:	<u>Change Order for EB1 Tie in</u>	Copy:	<u>Dana Gillette, Simon Coleman</u>

Brothers' Construction, Inc. (BCI) is requesting a change order for the T-pile reconstruction and tie in efforts at Island Drive End Bent 1.

The existing conditions and repairs were addressed under RFI #008 by Alan Gerwig Associates (AGA). AGA evaluated the change order request and approved the request for \$7,280.20.

Attachments

1. BCI change order request
2. Concrete invoice from Titan
3. RFI #008
4. Change order approval from AGA

BROTHERS CONSTRUCTION
 PROJECT: PALM BCH ISLES BRIDGES
 OWNER: CITY OF RIVIERA BEACH
 LAST RUN:

08-Feb-21

SCOPE OF WORK: EB1 TIE-IN (RFI #008)

WORK ACTIVITY	\$7,280.20 NOTES	ACTIVITY		QUAN PER DAY	TOTAL DAYS	LABOR			MATERIALS		EQUIPMENT			SUBCONTRACTOR		TOTALS	
		QUAN.	U.O.M.			CREW TYPE (1,2)	DAILY RATE	COST	UNIT PRICE	TOTAL	GROUP TYPE (1,2)	DAILY RATE	TOTAL	UNIT PRICE	TOTAL	TOTAL COST	
T-PILE RECONSTRUCTION		1	LS														
Evaluate and communicate details with EOR		1	ls	8	0.125	1	\$621.00	\$ 77.63	\$ -	\$ -	1	\$370.00	\$0.00	\$ -	\$ -	\$ -	\$ 123.88
Sawcut and demolition	to sound concrete	1	ls	4	0.25	1	\$621.00	\$ 155.25	\$ -	\$ -	1	\$370.00	\$92.50	\$ -	\$ -	\$ -	\$ 247.75
Drill and epoxy dowels, tie rebar	dowels 6" OC, FDOT APL epoxy	1	ls	6	0.166667	1	\$621.00	\$ 103.50	\$ 75.00	\$ 75.00	1	\$370.00	\$61.67	\$ -	\$ -	\$ -	\$ 240.17
Form pile		1	ls	6	0.166667	1	\$621.00	\$ 103.50	\$ 50.00	\$ 50.00	1	\$370.00	\$61.67	\$ -	\$ -	\$ -	\$ 215.17
Purchase concrete - class Iv 5500psi	FDOT 3cy min, short load (invoice)	1	ls		0	1	\$621.00	\$ -	\$ 696.57	\$ 696.57	1	\$370.00	\$0.00	\$ -	\$ -	\$ -	\$ 696.57
Pour concrete		1	ls	8	0.125	1	\$621.00	\$ 77.63	\$ -	\$ -	1	\$370.00	\$46.25	\$ -	\$ -	\$ -	\$ 123.88
Strip forms		1	ls	8	0.125	1	\$621.00	\$ 77.63	\$ -	\$ -	1	\$370.00	\$46.25	\$ -	\$ -	\$ -	\$ 123.88
					0	1	\$621.00	\$ -	\$ -	\$ -	1	\$370.00	\$0.00	\$ -	\$ -	\$ -	\$ -
PANEL RECONSTRUCTION					0	1	\$621.00	\$ -	\$ -	\$ -	1	\$370.00	\$0.00	\$ -	\$ -	\$ -	\$ -
Sawcut and demolition	to sound concrete	1	ls	6	0.166667	1	\$621.00	\$ 103.50	\$ -	\$ -	1	\$370.00	\$61.67	\$ -	\$ -	\$ -	\$ 165.17
Drill and epoxy dowels, tie rebar	dowels 6" OC, FDOT APL epoxy	1	ls	4	0.25	1	\$621.00	\$ 155.25	\$ 100.00	\$ 100.00	1	\$370.00	\$92.50	\$ -	\$ -	\$ -	\$ 347.75
Form panel	tie in to new sheetpanel	1	ls	6	0.166667	1	\$621.00	\$ 103.50	\$ 50.00	\$ 50.00	1	\$370.00	\$61.67	\$ -	\$ -	\$ -	\$ 215.17
Purchase concrete - class Iv 5500psi	extra from adjacent pour	1	ls		0	1	\$621.00	\$ -	\$ 125.00	\$ 125.00	1	\$370.00	\$0.00	\$ -	\$ -	\$ -	\$ 125.00
Pour concrete		1	ls	8	0.125	1	\$621.00	\$ 77.63	\$ -	\$ -	1	\$370.00	\$46.25	\$ -	\$ -	\$ -	\$ 123.88
Strip forms		1	ls	8	0.125	1	\$621.00	\$ 77.63	\$ -	\$ -	1	\$370.00	\$46.25	\$ -	\$ -	\$ -	\$ 123.88
					0	1	\$621.00	\$ -	\$ -	\$ -	1	\$370.00	\$0.00	\$ -	\$ -	\$ -	\$ -
CORNER CONCRETE PLUG					0	1	\$621.00	\$ -	\$ -	\$ -	1	\$370.00	\$0.00	\$ -	\$ -	\$ -	\$ -
Purchase form	beam, or large diam cut pipe	1	ls		0	1	\$621.00	\$ -	\$ 350.00	\$ 350.00	1	\$370.00	\$0.00	\$ -	\$ -	\$ -	\$ 350.00
Excavate area for access		1	ls	8	0.125	1	\$621.00	\$ 77.63	\$ -	\$ -	1	\$370.00	\$46.25	\$ -	\$ -	\$ -	\$ 123.88
Install corner form	excavate, set, backfill	1	ls	4	0.25	1	\$621.00	\$ 155.25	\$ -	\$ -	1	\$370.00	\$92.50	\$ -	\$ -	\$ -	\$ 247.75
Clean out interior of form	jet or air lift	1	ls	6	0.166667	1	\$621.00	\$ 103.50	\$ -	\$ -	1	\$370.00	\$61.67	\$ -	\$ -	\$ -	\$ 165.17
Grout form - mix and fill	NS Grout, +/- 8cf	1	ls	4	0.25	1	\$621.00	\$ 155.25	\$ 200.00	\$ 200.00	1	\$370.00	\$92.50	\$ -	\$ -	\$ -	\$ 447.75
Backfill with densities		1	ls	2	0.5	1	\$621.00	\$ 310.50	\$ -	\$ -	1	\$370.00	\$185.00	\$ -	\$ -	\$ -	\$ 495.50
					0	1	\$621.00	\$ -	\$ -	\$ -	1	\$370.00	\$0.00	\$ -	\$ -	\$ -	\$ -
					0	1	\$621.00	\$ -	\$ -	\$ -	1	\$370.00	\$0.00	\$ -	\$ -	\$ -	\$ -
SUBTOTALS		3.083333	days					\$ 1,914.75		\$ 1,646.57			\$1,140.83		\$ -		\$ 4,702.15
MISCELLANEOUS EQUIPMENT - % EQUIP		10										\$ 1,140.83	\$ 114.08				\$ 114.08
EXPENDABLES -% LABOR		7.5							\$ 2,106.23	\$ 157.97							\$ 157.97
OVERTIME - 10% LABOR		10					\$ 1,914.75	\$ 191.48									\$ 191.48
LABOR SUBSISTENCE - PER DAY, MEN		60	0						\$ 60.00	\$ -							\$ -
FUEL,OIL,GREASE,REPAIR - PER DAY - GALS, COST	includes pickup trucks	20	\$3.00						\$ 60.00	\$ 185.00							\$ 185.00
LABOR BURDEN - %		25						\$ 2,106.23	\$ 526.56								\$ 526.56
TAX ON MATERIALS - %		7							\$ 1,989.54	\$ 139.27			\$ 1,254.92	\$ 87.84			\$ 227.11
ITEM SUBTOTALS					3.083333			\$ 2,632.78		\$ 2,128.80			\$ 1,342.76		\$ -		\$ 6,104.35
																	CHECK \$ 6,104.35

LABOR COSTS	\$	2,632.78
MARKUP PERCENT:	17.5	
MARKUP ON LABOR:	\$	460.74
MATERIALS AND EQUIPMENT COST	\$	3,471.57
MARKUP PERCENT	17.5	
MARKUP ON MATLS AND EQUIPMENT:	\$	607.52
SUBCONTRACTOR COSTS	\$	-
MARKUP PERCENT:	17.5	
MARKUP ON SUBCONTRACTORS:	\$	-
SUBTOTAL	\$	7,172.61
BOND @ 1.5%	\$	107.59
TOTAL	\$	7,280.20

EQUIPMENT IN SCOPE - EQUIPMENT GROUP 1				
EQUIPMENT DESCRIPTION	QTY REQD	MONTHLY RATE	EQUIPMENT DAILY RATE	EQUIPMENT DAILY TOTAL
Mini excavator	1	\$2,500.00	\$125.00	\$125.00
Jet Pump	1	\$3,500.00	\$175.00	\$175.00
Generator	1	\$800.00	\$40.00	\$40.00
Carpenter Floats	1	\$600.00	\$30.00	\$30.00
Open	1	\$0.00	\$0.00	\$0.00
Open	1	\$0.00	\$0.00	\$0.00
Open	1	\$0.00	\$0.00	\$0.00
Open	1	\$0.00	\$0.00	\$0.00
Open	1	\$0.00	\$0.00	\$0.00
Open	1	\$0.00	\$0.00	\$0.00
Open	1	\$0.00	\$0.00	\$0.00
Totals				\$370.00

LABOR /CREW IN SCOPE - CREW 1				
LABOR CLASS	QTY	HRLY RATE	HRS PER DAY	DAILY TOTAL
Superintendent	0	\$45.00	8	\$0.00
Foreman	1	\$25.00	9	\$225.00
Carpenter	1	\$23.00	9	\$207.00
Skilled Laborer	1	\$21.00	9	\$189.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Totals	3			\$621.00



INVOICE

Titan Florida LLC
 Attn: Accounts Receivable Dept
 455 Fairway Drive #200
 Deerfield Beach, FL 33441

CUSTOMER I.D.	INVOICE DATE	INVOICE NUMBER
90008015	01/25/2021	93278035

PAYMENT INQUIRIES: 800-330-3380
 BILLING INQUIRIES: 800-204-0632

We appreciate your business

SOLD TO:

SHIP TO:

BROTHERS CONSTRUCTION INC
 6526 S KANNER HWY #345
 STUART FL 34997-6396

PO#
 SINGER ISLAND BRIDGES
 1290 FAIRVIEW LN
 SINGER ISLAND

DATE		TICKET NUMBER	MATERIAL NUMBER	DESCRIPTION	BILLING			GROSS AMOUNT
MO	DAY				QUANTITY	U/M	UNIT PRICE	
01	25	51734	D4140200	1309 - Fairgrounds RMC Plant	3.00	YD3	\$141.00	\$423.00
01	25	51734	800007	CL IV HRWR CNI 04-1402	1.00	LD	\$13.00	\$13.00
01	25	51734	800014	FUEL SURCHG	1.00	LD	\$15.00	\$15.00
01	25	51734	800036	ENVIRON SURCHG	1.00	LD	\$200.00	\$200.00
				SHORT LOAD				
			D4140200	PRODUCT RECAP	3.00			
			800007	CL IV HRWR CNI 04-1402	1.00			
			800014	FUEL SURCHG	1.00			
			800036	ENVIRON SURCHG	1.00			
				SHORT LOAD	1.00			
							Net Total	\$651.00
							Sales Tax	\$45.57
Job Name _____ Job No. _____ Cost Code _____ Date Rec'd _____ Initials _____					EB-1 TIE IN <u> </u>			



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TAX EXEMPT #
 ORDER #
 SALES REP
 ORDER INFO
 SHIP VIA
 SHIPPED FROM

JORGE FERNANDEZ
 Job # 110120
 Fairgrounds RMC SP

Titan Corporate Values
 Safety
 Integrity
 Know-how
 Value to the customer
 Commit to and deliver results
 Continuous improvement
 Corporate social responsibility

TOTAL QUANTITY
3.00

DISCOUNT	INVOICE TOTAL
\$6.51	\$696.57

DISC DUE DATE	DUE DATE
02/10/2021	02/28/2021

CUSTOMER I.D.	INVOICE DATE	INVOICE NUMBER
90008015	01/25/2021	93278035

REMIT TO
Titan Florida LLC PO BOX 932622 ATLANTA, GA 31193-2622

To ensure proper credit to your account, please designate all invoices being paid.
 Visit our web site at <http://www.titanamerica.com/salesterms> for terms and conditions

A service charge shall be imposed on invoices not paid in accordance with the standard terms, at the rate of 1.5% per month

TO VIEW ONLINE GO TO:	http://titanamerica.billtrust.com	USE THIS ENROLLMENT CODE:	TRK PPK FKD
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REQUEST FOR INFORMATION

BROTHERS' CONSTRUCTION INC.

PROJECT: Palm Beach Isles Bridges
City of Riviera Beach, FL.
City Project No. 18097
LAST RUN: 18-Jan-21

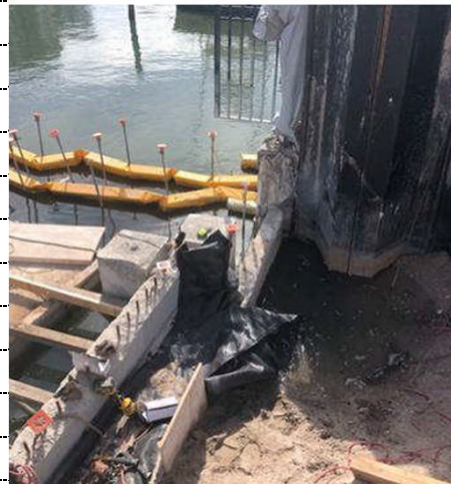
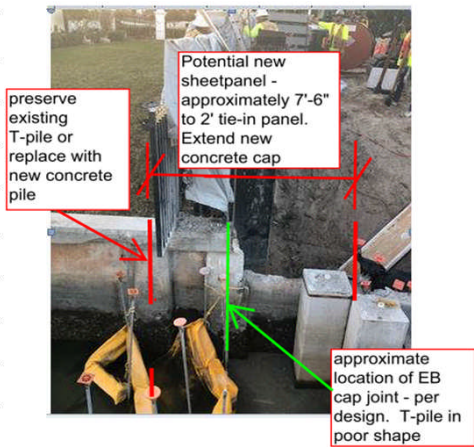
REQUESTED BY: FRANK SUBJINSKI	DATE REQUESTED: 18-Jan-21	DRAWINGS REFERENCED: Sheet B2-13	DATE RESPONSE NEEDED: 19-Jan-21	SPECS REFERENCED:	RFI NUMBER: 008
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ISSUE: Tie in to existing resident cap, EB 1, Island Drive SW Bridge

As a follow up to AGA's (Simon's) site visit on Thursday last week, we have investigated the resident's existing wall and cap at the proposed EB 1 tie in location and would like to discuss. The existing wall and cap appear to be in poor condition and may be structurally insufficient for a stable tie-in of the new EB 1 cap, and we share the same concerns as AGA.

Please see the photos below and let's meet on site Tuesday 1/19 to discuss.

Our only suggestion is to replace some of the resident's wall until a stable tie in and anchor point can be found - possibly at the 2nd T-pile shown in the photo. This is only one idea and we would like to hear from the EOR and Owner.



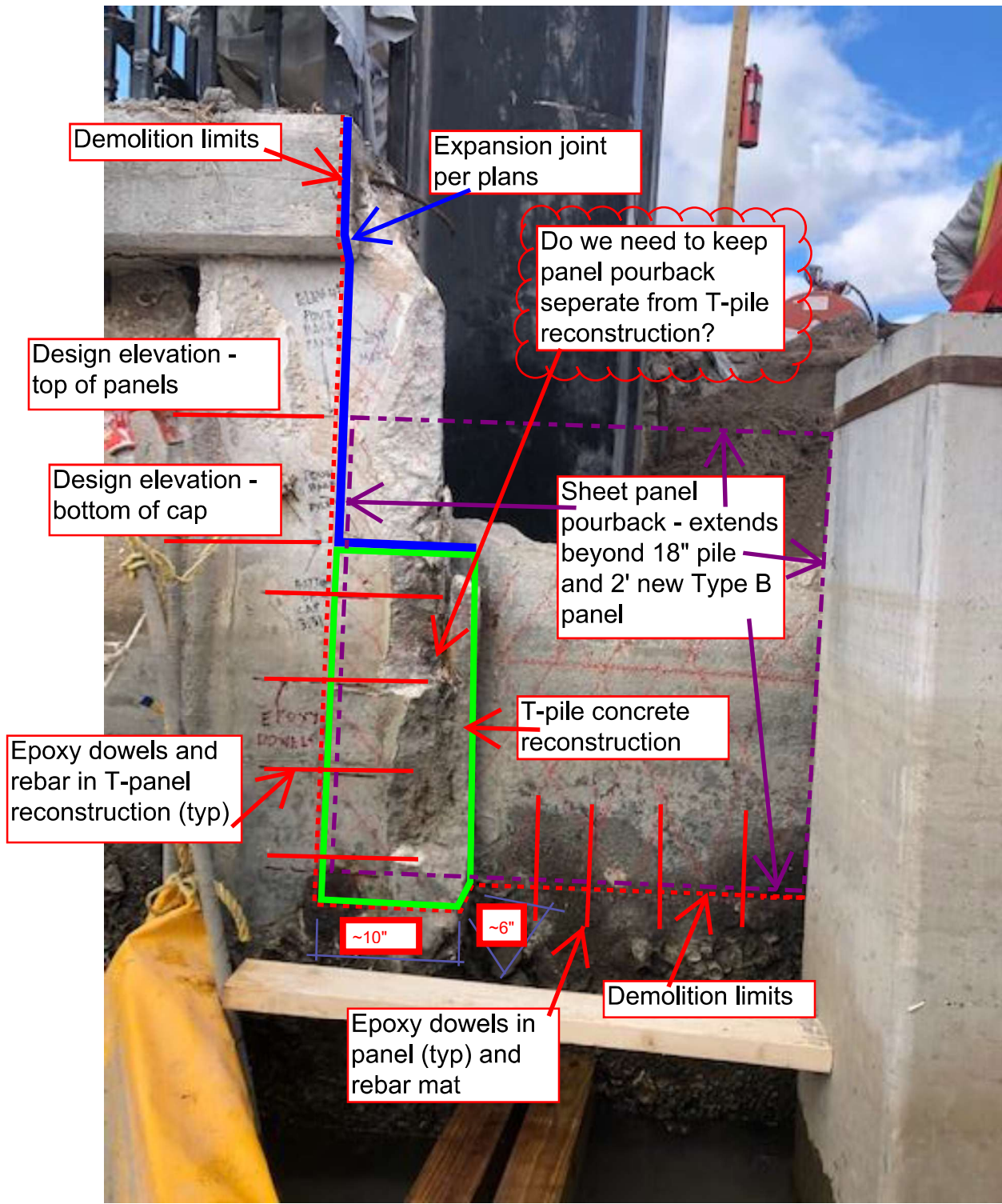
RESPONSE BY: Simon Coleman. P.E.

DATE OF RESPONSE: 2/23/21

DETAILED RESPONSE:

As discussed, agreed an implemented, we agree with the repair to the pile and sheet panel to be as detailed on the attached sheet.

Island Drive SW Bridge, Tie In To End Bent 1
January 20, 2021 Meeting on Site



- Additional Notes:
1. T-pile reconstruction poured separately from panel pourback.

Phoebe Cuevas-Molina

From: Simon Coleman <scoleman@aga-engineering.com>
Sent: Monday, March 8, 2021 9:42 AM
To: Phoebe Cuevas-Molina
Cc: Dana I. Gillette
Subject: RE: Palm Beach Isles Bridges - Additional Costs - Item 8 Progress Meeting Notes - Backup

Phoebe,

I have no comments and approve it as is.

Regards,

Simon

Simon Coleman, Ph.D., P.E.
Project Manager

Alan Gerwig & Associates, Inc.
12798 W. Forest Hill Blvd, Suite 201
Wellington, FL 33414
Phone: (561) 792-9000, ext. 215
Cell: (561) 543 4846
Fax: (561) 792-9901
scoleman@aga-engineering.com

AGA Project No.:



From: Phoebe Cuevas-Molina <Cuevas-MolinaP@erdmananthony.com>
Sent: Monday, March 8, 2021 9:03 AM
To: Simon Coleman <scoleman@aga-engineering.com>
Cc: Dana I. Gillette <GilletteD@erdmananthony.com>
Subject: FW: Palm Beach Isles Bridges - Additional Costs - Item 8 Progress Meeting Notes - Backup

Hi Simon,

I'm following up on this change order request. Please review RFCO #02 attached and let us know if you have any comments or approve of it as is.

Thanks,

BROTHERS CONSTRUCTION
 PROJECT: PALM BCH ISLES BRIDGES
 OWNER: CITY OF RIVIERA BEACH
 LAST RUN:

22-Apr-21

MILL AND RESURFACE

ID westbound 56 sy
 ID eastbound 68 sy
 Additional asphalt 348 sy
 472 sy

Request #3

RF03
 SCOPE OF WORK: ADDITIONAL CONCRETE PAVING WORK - ISLAND DRIVE
 DELETE ALL ASPHALT WORK

WORK ACTIVITY	NOTES	ACTIVITY QUAN.	U.O.M.	LABOR				MATERIALS		EQUIPMENT			SUBCONTRACTOR		TOTALS	
				QUAN PER DAY	TOTAL DAYS	CREW TYPE (1,2)	DAILY RATE	COST	UNIT PRICE	TOTAL	GROUP TYPE (1,2)	DAILY RATE	TOTAL	UNIT PRICE	TOTAL	TOTAL COST
MILLING		472	SY													
Mobilizations		1	ls		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
Mill 1" asphalt		472	sy		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 20.62	\$ 9,732.64	\$ 9,732.64
Mot and Support		4	areas	2	2	1	\$1,422.00	\$ 2,844.00	\$ -	\$ -	3 - no equip	FALSE	\$0.00	\$ -	\$ -	\$ 2,844.00
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
RESURFACE					0	1	\$1,422.00	\$ -	\$ -	\$ -						
Mobilizations		1	ls		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 5,053.06	\$ 5,053.06	\$ 5,053.06
Resurfacing - 1" SP 12.5		472	sy		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 23.74	\$ 11,205.28	\$ 11,205.28
Mot and Support		4	areas	2	2	1	\$1,422.00	\$ 2,844.00	\$ -	\$ -	3 - no equip	FALSE	\$0.00	\$ -	\$ -	\$ 2,844.00
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
FM AND WM STUBOUT SITEWORKS	Exit - WM Stubs, Entrance - FM				0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
Backfill and compact		4	ea	3	1.333333	1	\$1,422.00	\$ 1,896.00	\$ -	\$ -	1	\$555.00	\$740.00	\$ -	\$ -	\$ 2,636.00
Additional base installation		4	ea	3	1.333333	1	\$1,422.00	\$ 1,896.00	\$ -	\$ -	1	\$555.00	\$740.00	\$ -	\$ -	\$ 2,636.00
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
CREDIT - DELETE ALL CONTRACT ASPHALT	credit is for design asphalt areas - 124sy				0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
Demolition		-124	sy		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 11.57	\$ (1,434.68)	\$ (1,434.68)
Excavation		-124	sy		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 24.83	\$ (3,078.92)	\$ (3,078.92)
12" compacted subgrade		-124	sy		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 13.01	\$ (1,613.24)	\$ (1,613.24)
8" base rock		-124	sy		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 21.92	\$ (2,718.08)	\$ (2,718.08)
Finish and fine grade		-124	sy		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 20.35	\$ (2,523.40)	\$ (2,523.40)
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
ASPHALT					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
Install prime		-124	sy		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 4.81	\$ (596.44)	\$ (596.44)
Install asphalt	2" depth, SP 12.5	-124	sy		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 41.60	\$ (5,158.40)	\$ (5,158.40)
Mobilizations		-1	ls		0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 2,896.15	\$ (2,896.15)	\$ (2,896.15)
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
					0	1	\$1,422.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -
SUBTOTALS		6.6666667	days				\$ 9,480.00	\$ -	\$ -	\$ -			\$1,480.00	\$ 11,024.73	\$ 21,984.73	
MISCELLANEOUS EQUIPMENT - % EQUIP		0										\$ 1,480.00	\$ -		\$ -	
EXPENDABLES, SAFETY - % LABOR		0						\$ 9,480.00	\$ -	\$ -					\$ -	
OVERTIME - 10% LABOR		0					\$ 9,480.00	\$ -	\$ -	\$ -					\$ -	
LABOR SUBSISTENCE - PER DAY, MEN		0	0						\$ -	\$ -					\$ -	
FUEL,OIL,GREASE,REPAIR - PER DAY - GALS, COST	includes pickup trucks	0	\$3.00						\$ -	\$ -					\$ -	
LABOR BURDEN - %		25					\$ 9,480.00	\$ 2,370.00	\$ -	\$ -					\$ 2,370.00	
TAX ON MATERIALS - %		7							\$ -	\$ -			\$ 1,480.00	\$ 103.60	\$ 103.60	
ITEM SUBTOTALS					6.666667		\$ 11,850.00	\$ -	\$ -	\$ -			\$ 1,583.60	\$ 11,024.73	\$ 24,458.33	
															CHECK \$ 24,458.33	

LABOR COSTS	\$	11,850.00
MARKUP PERCENT:	17.5	
MARKUP ON LABOR:	\$	2,073.75
MATERIALS AND EQUIPMENT COST	\$	1,583.60
MARKUP PERCENT	17.5	
MARKUP ON MATLS AND EQUIPMENT:	\$	277.13
SUBCONTRACTOR COSTS	\$	11,024.73
MARKUP PERCENT:	17.5	
MARKUP ON SUBCONTRACTORS:	\$	1,929.33
SUBTOTAL	\$	28,738.54
BOND @ 1.5%	\$	431.08

EQUIPMENT IN SCOPE - EQUIPMENT GROUP 1					
EQUIPMENT DESCRIPTION	QTY REQD	MONTHLY RATE	EQUIPMENT DAILY RATE	EQUIPMENT DAILY TOTAL	
Roller compactor	1	\$2,250.00	\$112.50	\$112.50	
Plate compactor	1	\$1,100.00	\$55.00	\$55.00	
Loader	1	\$3,500.00	\$175.00	\$175.00	
Bobcat	1	\$2,500.00	\$125.00	\$125.00	
Mini Excavator	1	\$1,750.00	\$87.50	\$87.50	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Totals				\$555.00	

LABOR /CREW IN SCOPE - CREW 1				
LABOR CLASS	QTY	HRLY RATE	HRS PER DAY	DAILY TOTAL
Superintendent	0.5	\$45.00	8	\$180.00
Foreman	1	\$25.00	9	\$225.00
Carpenter/Helper	2	\$23.00	9	\$414.00
Skilled Laborer	2	\$21.00	9	\$378.00
Operator	1	\$25.00	9	\$225.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Totals	6.5			\$1,422.00

TOTAL BID \$ **29,169.62**

BROTHERS CONSTRUCTION
 PROJECT: PALM BCH ISLES BRIDGES
 OWNER: CITY OF RIVIERA BEACH
 LAST RUN:

22-Apr-21

REUSE BASE, NEW CONCRETE 5"

ID westbound 56 sy
 ID eastbound 68 sy
 Additional asphalt 348 sy
 472 sy

RFCO #03

SCOPE OF WORK: ADDITIONAL CONCRETE PAVING WORK - ISLAND DRIVE
 DELETE ALL ASPHALT WORK

WORK ACTIVITY	\$66,665.29 NOTES	ACTIVITY QUAN. U.O.M.	QUAN PER DAY	TOTAL DAYS	LABOR			MATERIALS		GROUP TYPE (1,2)	EQUIPMENT		SUBCONTRACTOR		TOTALS	
					CREW TYPE (1,2)	DAILY RATE	COST	UNIT PRICE	TOTAL		DAILY RATE	TOTAL	UNIT PRICE	TOTAL	TOTAL COST	
REMOVE AND DISPOSE EXISTING ASPHALT		472 SY														
Remove existing asphalt		472 sy	300	1.573333	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
Load asphalt to dumpsters		472 sy	600	0.786667	1	\$1,602.00	\$ 1,260.24	\$ -	\$ -	1	\$555.00	\$436.60	\$ -	\$ -	\$ -	\$ 1,696.84
Dispose of asphalt	110#/sy inch. Assume 2"	53 tons	0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 50.00	\$ 2,650.00	\$ -	\$ 2,650.00
			0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
			0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
REMOVE AND DISPOSE EXISTING BASE																
Excavate base material - approximately 3"	slow - cut close to grade	40 cy	20	2	1	\$1,602.00	\$ 3,204.00	\$ -	\$ -	1	\$555.00	\$1,110.00	\$ -	\$ -	\$ -	\$ 4,314.00
Dispose of old base		52 tons	0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 30.00	\$ 1,560.00	\$ -	\$ 1,560.00
			0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
			0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
REUSE EXISTING BASE ROCK																
Fine grade and level base material		472 sy	100	4.72	1	\$1,602.00	\$ 7,561.44	\$ -	\$ -	1	\$555.00	\$2,619.60	\$ -	\$ -	\$ -	\$ 10,181.04
Additional base - touchup		40 tns	0	0	1	\$1,602.00	\$ -	\$ 35.00	\$ 1,400.00	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ 1,400.00
			0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
			0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
CONCRETE PAVING																
Purchase concrete + 15% waste	assume 5" depth	76 cy	0	0	1	\$1,602.00	\$ -	\$ 135.00	\$ 10,260.00	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ 10,260.00
Install forms and prepare for pours		4 pours	0.5	8	1	\$1,602.00	\$ 12,816.00	\$ -	\$ -	1	\$555.00	\$4,440.00	\$ -	\$ -	\$ -	\$ 17,256.00
Pour concrete - pour days		4 ea	1	4	1	\$1,602.00	\$ 6,408.00	\$ -	\$ -	1	\$555.00	\$2,220.00	\$ -	\$ -	\$ -	\$ 8,628.00
Concrete pump		2 ea	0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ 2,250.00	\$ 4,500.00	\$ -	\$ 4,500.00
			0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
			0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
CREDIT - DELETE ALL CONTRACT ASPHALT	credit is for design asphalt areas - 124sy															
Demolition		-124 sy	0	0	1	\$0.00	\$ -	\$ -	\$ -	1	\$0.00	\$0.00	\$ 11.57	\$ (1,434.68)	\$ -	\$ (1,434.68)
Excavation		-124 sy	0	0	1	\$0.00	\$ -	\$ -	\$ -	1	\$0.00	\$0.00	\$ 24.83	\$ (3,078.92)	\$ -	\$ (3,078.92)
12" compacted subgrade		-124 sy	0	0	1	\$0.00	\$ -	\$ -	\$ -	1	\$0.00	\$0.00	\$ 13.01	\$ (1,613.24)	\$ -	\$ (1,613.24)
8" base rock		-124 sy	0	0	1	\$0.00	\$ -	\$ -	\$ -	1	\$0.00	\$0.00	\$ 21.92	\$ (2,718.08)	\$ -	\$ (2,718.08)
Finish and fine grade		-124 sy	0	0	1	\$0.00	\$ -	\$ -	\$ -	1	\$0.00	\$0.00	\$ 20.35	\$ (2,523.40)	\$ -	\$ (2,523.40)
			0	0	1	\$0.00	\$ -	\$ -	\$ -	1	\$0.00	\$0.00	\$ -	\$ -	\$ -	\$ -
			0	0	1	\$0.00	\$ -	\$ -	\$ -	1	\$0.00	\$0.00	\$ -	\$ -	\$ -	\$ -
ASPHALT																
Install prime		-124 sy	0	0	1	\$0.00	\$ -	\$ -	\$ -	1	\$0.00	\$0.00	\$ 4.81	\$ (596.44)	\$ -	\$ (596.44)
Install asphalt	2" depth, SP 12.5	-124 sy	0	0	1	\$0.00	\$ -	\$ -	\$ -	1	\$0.00	\$0.00	\$ 41.60	\$ (5,158.40)	\$ -	\$ (5,158.40)
Mobilizations		-1 ls	0	0	1	\$0.00	\$ -	\$ -	\$ -	1	\$0.00	\$0.00	\$ 2,896.15	\$ (2,896.15)	\$ -	\$ (2,896.15)
			0	0	1	\$0.00	\$ -	\$ -	\$ -	1	\$0.00	\$0.00	\$ -	\$ -	\$ -	\$ -
			0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
			0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
			0	0	1	\$1,602.00	\$ -	\$ -	\$ -	1	\$555.00	\$0.00	\$ -	\$ -	\$ -	\$ -
SUBTOTALS		21.08 days				\$ 33,770.16		\$ 11,660.00			\$11,699.40		\$ (11,309.31)		\$ 45,820.25	
MISCELLANEOUS EQUIPMENT - % EQUIP		0									\$ 11,699.40	\$ -			\$ -	
EXPENDABLES, SAFETY - % LABOR		0						\$ 33,770.16	\$ -						\$ -	
OVERTIME - 10% LABOR		0				\$ 33,770.16	\$ -								\$ -	
LABOR SUBSISTENCE - PER DAY, MEN		0 0													\$ -	
FUEL,OIL,GREASE,REPAIR - PER DAY - GALS, COST	includes pickup trucks	0 \$3.00													\$ -	
LABOR BURDEN - %		25				\$ 33,770.16	\$ 8,442.54								\$ 8,442.54	
TAX ON MATERIALS - %		7						\$ 11,660.00	\$ 816.20		\$ 11,699.40	\$ 818.96			\$ 1,635.16	
ITEM SUBTOTALS				21.08		\$ 42,212.70		\$ 12,476.20			\$ 12,518.36		\$ (11,309.31)		\$ 55,897.95	
													CHECK		\$ 55,897.95	

LABOR COSTS	\$	42,212.70
MARKUP PERCENT:	17.5	
MARKUP ON LABOR:	\$	7,387.22
MATERIALS AND EQUIPMENT COST	\$	24,994.56
MARKUP PERCENT	17.5	
MARKUP ON MATLS AND EQUIPMENT:	\$	4,374.05
SUBCONTRACTOR COSTS	\$	(11,309.31)
MARKUP PERCENT:	17.5	
MARKUP ON SUBCONTRACTORS:	\$	(1,979.13)
SUBTOTAL	\$	65,680.09
BOND @ 1.5%	\$	985.20

EQUIPMENT IN SCOPE - EQUIPMENT GROUP 1					
EQUIPMENT DESCRIPTION	QTY REQD	MONTHLY RATE	EQUIPMENT DAILY RATE	EQUIPMENT DAILY TOTAL	
Roller compactor	1	\$2,250.00	\$112.50	\$112.50	
Plate compactor	1	\$1,100.00	\$55.00	\$55.00	
Loader	1	\$3,500.00	\$175.00	\$175.00	
Bobcat	1	\$2,500.00	\$125.00	\$125.00	
Mini Excavator	1	\$1,750.00	\$87.50	\$87.50	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Totals			\$555.00		

LABOR /CREW IN SCOPE - CREW 1 (extra cew, concrete paving)				
LABOR CLASS	QTY	HRLY RATE	HRS PER DAY	DAILY TOTAL
Superintendent	1	\$45.00	8	\$360.00
Foreman	1	\$25.00	9	\$225.00
Carpenter/Helper	2	\$23.00	9	\$414.00
Skilled Laborer	2	\$21.00	9	\$378.00
Operator	1	\$25.00	9	\$225.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Totals	7			\$1,602.00

TOTAL BID \$ **66,665.29**

QUOTE PROPOSAL



C.W. ROBERTS CONTRACTING, INC

806 NW 9th St
 Okeechobee, FL 34972
Contact: Pete Ramsdell
Phone: 863-763-7373
Fax: 863-763-7379

COSTS USED FOR CREDITS

Quote To: Brothers Construction Inc,
 6526 S. Kanner Highway, #345
 Stuart, Fl. 34997
Phone: 772-919-5584
Fax:

Job Name: Palm Beach Isles Bridge Improv. Addl. Aspha
FPN:
Date of Plans:
Revision Date:
Quote Revision:

Email: frank@brothers Constructionfl.com

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
100	MOBILIZATION WEST & EAST SIDE SITE WORK PREP.	1.00	LS	3,109.96	3,109.96
200	DEMOLITATION	160.00	SY	11.57	1,851.20
300	EXCAVATION	160.00	SY	24.83	3,972.80
400	12" COMPACTED SUB GRADE	160.00	SY	13.01	2,081.60
500	8" FDOT BASE ROCK	160.00	SY	21.92	3,507.20
600	FINISH & FINE GRADING	1.00	LS	3,256.04	3,256.04
700	MOB FOR WEST & EAST SIDE ADDITIONAL ASPHAT	1.00	LS	2,896.15	2,896.15
800	ASPHALT PRIME	160.00	SY	4.81	769.60
900	FURNISH & INSTALL 2" DEEP SP-12.5 ASPHALT	160.00	SY	41.60	6,656.00
GRAND TOTAL					28,100.55

NOTES:

- CWR has included roadway QC for the asphalt paving only.
- Bituminous Prime Coat is included in Base prices.
- Erosion Control is not included.
- MOT setup, closures, flagman, light plants, or traffic shifts is not included.
- Temporary MOT devices are not included.
- Permit Fees, Tap Fees, meter fees, meters and connection fees are not included.
- Base to be compacted per specifications and left on plan grade by others.
- Drainage of pavement surface where the design slope is less than 1%, will not be guaranteed.
- Pricing is based on 1 mobilization, add \$2,500 for each additional mobilization.
- Payment in full for all work performed hereunder during any month shall be made not later than the tenth day of the month next following.
- This proposal expires thirty (30) days from the date hereof, but may be accepted at any later date at the sole option of CWR.
- If the foregoing meets with your acceptance, kindly sign and return this proposal. Upon its' receipt it is understood and the foregoing will constitute the full and complete agreement between us.

Accepted By: _____

QUOTE PROPOSAL



C.W. ROBERTS CONTRACTING, INC

806 NW 9th St
 Okeechobee, FL 34972
Contact: Pete Ramsdell
Phone: 863-763-7373
Fax: 863-763-7379

COSTS USED FOR MILL AND RESURFACE

Quote To: Brothers Construction Inc.
 6526 S. Kanner Highway, #345
 Stuart, Fl. 34997
Phone: 772-919-5584
Fax:
 Email: frank@brothersconstructionfl.com
 Attn: Mr. Frank Subjinski

Job Name: P B Isles Bridge Improv: Mill & Pave
FPN: N/A
Date of Plans: N/A
Revision Date: N/A
Quote Revision: N/A

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
100	MOBILIZATION	1.00	LS	5,053.06	5,053.06
200	MILLING 1" DEEP (2 LOCATIONS)	236.00	SY	20.62	4,866.32
300	FURNISH & INSTALL 1" SP-9.5 ASPHALT (2 LOCATIONS)	236.00	SY	23.74	5,602.64
Island Drive (Eastbound)					15,522.02
400	MOBILIZATION	1.00	LS	5,053.06	5,053.06
500	MILLING 1" DEEP (2 LOCATIONS)	236.00	SY	20.62	4,866.32
600	FURNISH & INSTALL 1" SP-9.5 ASPHALT (2 LOCATIONS)	236.00	SY	23.74	5,602.64
Island Drive (West Bound)					15,522.02
GRAND TOTAL					31,044.04

NOTES:

- CWR has included roadway QC for the asphalt paving only.
- Bituminous Tack Coat is included in Asphalt prices.
- Erosion Control is not included.
- Temporary striping and removal is not included.
- MOT setup, closures, flagman, light plants, or traffic shifts is not included.
- Temporary MOT devices are not included.
- Permit Fees, Tap Fees, meter fees, meters and connection fees are not included.
- Drainage of pavement surface where the design slope is less than 1%, will not be guaranteed.
- Pricing is based on 1 mobilization, add \$1,500 for each additional mobilization.
- Payment in full for all work performed hereunder during any month shall be made not later than the tenth day of the month next following.
- This proposal expires thirty (30) days from the date hereof, but may be accepted at any later date at the sole option of CWR.
- If the foregoing meets with your acceptance, kindly sign and return this proposal. Upon its' receipt it is understood and the foregoing will constitute the full and complete agreement between us.

Accepted By: _____

Date: _____

SCOPE OF WORK: ADDITIONAL UTILITIES EFFORTS - ISLAND DRIVE. NEW SHEETS U-03 AND U-04
 REVISION 2

WORK ACTIVITY	NOTES	ACTIVITY		LABOR				MATERIALS		EQUIPMENT		SUBCONTRACTOR		TOTALS		
		QUAN.	U.O.M.	QUAN PER DAY	TOTAL DAYS	CREW TYPE (1,2)	DAILY RATE	COST	UNIT PRICE	TOTAL	GROUP TYPE (1,2)	DAILY RATE	TOTAL	UNIT PRICE	TOTAL	TOTAL COST
		1	LS													
TREE REMOVALS																
Remove trees	2 palm trees	2	ea	4	0.5	1	\$1,179.00	\$ 589.50	\$ -	\$ -	1	\$231.25	\$115.63	\$ -	\$ -	\$ 705.13
Trim cabbage trees		1	ls	2	0.5	1	\$1,179.00	\$ 589.50	\$ -	\$ -	1	\$231.25	\$115.63	\$ -	\$ -	\$ 705.13
Dispose of trees - in dumpsters		1	loads			1	\$1,179.00	\$ -	\$ -	\$ -	1	\$231.25	\$0.00	\$ 515.59	\$ 515.59	\$ 515.59
						1	\$1,179.00	\$ -	\$ -	\$ -	1	\$231.25	\$0.00	\$ -	\$ -	\$ -
TEMP POLE INSTALLATION AND UTILITY TRENCH	includes MOT					1	\$1,179.00	\$ -	\$ -	\$ -	1	\$231.25	\$0.00	\$ -	\$ -	\$ -
Excavate trench ID entrance bridge	approximately 50', mostly hand excavation	50	lf	50	1	1	\$1,179.00	\$ 1,179.00	\$ -	\$ -	1	\$231.25	\$231.25	\$ -	\$ -	\$ 1,410.25
Compacted subgrade		50	lf	200	0.25	1	\$1,179.00	\$ 294.75	\$ -	\$ -	1	\$231.25	\$57.81	\$ -	\$ -	\$ 352.56
Purchase PVC pipes and fittings	2-2" FPL, 2-2" Comcast, 2-2" spare	300	lf			1	\$1,179.00	\$ -	\$ 2.50	\$ 750.00	1	\$231.25	\$0.00	\$ -	\$ -	\$ 750.00
Install PVC pipes and fittings	sweeps at poles	300	lf	300	1	1	\$1,179.00	\$ 1,179.00	\$ -	\$ -	1	\$231.25	\$231.25	\$ -	\$ -	\$ 1,410.25
Backfill and compact trench		50	lf	50	1	1	\$1,179.00	\$ 1,179.00	\$ -	\$ -	1	\$231.25	\$231.25	\$ -	\$ -	\$ 1,410.25
Tie into existing N/S lines	Allowance - find and tie into existing	1	ls	2	0.5	1	\$1,179.00	\$ 589.50	\$ 200.00	\$ 200.00	1	\$231.25	\$115.63	\$ -	\$ -	\$ 905.13
Assist with temporary pole installations	MOT and coordination, assist with access	1	ls	2	0.5	1	\$1,179.00	\$ 589.50	\$ -	\$ -	1	\$231.25	\$115.63	\$ -	\$ -	\$ 705.13
Density testing per FDOT 125		2	ea			1	\$1,179.00	\$ -	\$ -	\$ -	1	\$231.25	\$0.00	\$ 75.00	\$ 150.00	\$ 150.00
						1	\$1,179.00	\$ -	\$ -	\$ -	1	\$231.25	\$0.00	\$ -	\$ -	\$ -
						1	\$1,179.00	\$ -	\$ -	\$ -	1	\$231.25	\$0.00	\$ -	\$ -	\$ -
						1	\$1,179.00	\$ -	\$ -	\$ -	1	\$231.25	\$0.00	\$ -	\$ -	\$ -
						1	\$1,179.00	\$ -	\$ -	\$ -	1	\$231.25	\$0.00	\$ -	\$ -	\$ -
SUBTOTALS		5.25	days					\$ 6,189.75		\$ 950.00			\$1,214.06		\$ 665.59	\$ 9,019.40
MISCELLANEOUS EQUIPMENT - % EQUIP		0										\$ 1,214.06	\$ -			\$ -
EXPENDABLES, SAFETY - % LABOR		0							\$ 6,189.75	\$ -						\$ -
OVERTIME - 10% LABOR		0					\$ 6,189.75	\$ -								\$ -
LABOR SUBSISTENCE - PER DAY, MEN		60	0						\$ 60.00	\$ -						\$ -
FUEL,OIL,GREASE,REPAIR - PER DAY - GALS, COST		0	\$3.00						\$ -	\$ -						\$ -
LABOR BURDEN - %		25					\$ 6,189.75	\$ 1,547.44								\$ 1,547.44
TAX ON MATERIALS - %		0							\$ 950.00	\$ -		\$ 1,214.06	\$ -			\$ -
ITEM SUBTOTALS					5.25			\$ 7,737.19		\$ 950.00			\$ 1,214.06		\$ 665.59	\$ 10,566.84
															CHECK	\$ 10,566.84

LABOR COSTS	\$	7,737.19
MARKUP PERCENT:	17.5	
MARKUP ON LABOR:	\$	1,354.01
MATERIALS AND EQUIPMENT COST	\$	2,164.06
MARKUP PERCENT	17.5	
MARKUP ON MATLS AND EQUIPMENT:	\$	378.71
SUBCONTRACTOR COSTS	\$	665.59
MARKUP PERCENT:	17.5	
MARKUP ON SUBCONTRACTORS:	\$	116.48
SUBTOTAL	\$	12,416.04
BOND @ 1.5%	\$	186.24
TOTAL BID	\$	12,602.28

EQUIPMENT IN SCOPE - EQUIPMENT GROUP 1					
EQUIPMENT DESCRIPTION	QTY REQD	MONTHLY RATE	EQUIPMENT DAILY RATE	EQUIPMENT DAILY TOTAL	
Roller compactor	0	\$2,250.00	\$112.50	\$0.00	
Plate compactor	0.5	\$1,100.00	\$55.00	\$27.50	
Loader	0.5	\$3,500.00	\$175.00	\$87.50	
Bobcat	0.5	\$2,500.00	\$125.00	\$62.50	
Mini Excavator	0.5	\$2,150.00	\$107.50	\$53.75	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Open	1	\$0.00	\$0.00	\$0.00	
Totals				\$231.25	

LABOR /CREW IN SCOPE - CREW 1. INCLUDES MOT/FLAGGER				
LABOR CLASS	QTY	HRLY RATE	HRS PER DAY	DAILY TOTAL
Superintendent	0.5	\$45.00	8	\$180.00
Foreman	1	\$25.00	9	\$225.00
Carpenter/Helper	1	\$23.00	9	\$207.00
Skilled Laborer	3	\$21.00	9	\$567.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Totals	5.5			\$1,179.00

BROTHERS CONSTRUCTION
 PROJECT: PALM BCH ISLES BRIDGES
 OWNER: CITY OF RIVIERA BEACH
 LAST RUN:

30-Apr-21

Request #5


SCOPE OF WORK: RFCO #05, REMOVEABLE ENDWALLS, RFI #009
 REVISION 1


WORK ACTIVITY	NOTES	ACTIVITY		QUAN PER DAY	TOTAL DAYS	LABOR			MATERIALS		EQUIPMENT			SUBCONTRACTOR		TOTALS	
		QUAN.	U.O.M.			CREW TYPE (1,2)	DAILY RATE	COST	UNIT PRICE	TOTAL	GROUP TYPE (1,2)	DAILY RATE	TOTAL	UNIT PRICE	TOTAL	TOTAL COST	
		16	WALLS														
Purchase SS angles	6" x 6" x 1/2" x 12", 4 per endwall	64	ea	0	0	1	\$733.50	\$ -	\$ -	\$ -	1	\$262.50	\$0.00	\$ -	\$ -	\$ -	\$ -
Purchase SS wedge anchors	1/2" diam, 4 per angle	256	ea	0	0	1	\$733.50	\$ -	\$ 207.57	\$ 13,284.48	1	\$262.50	\$0.00	\$ -	\$ -	\$ 13,284.48	\$ 13,284.48
				0	0	1	\$733.50	\$ -	\$ 3.30	\$ 844.80	1	\$262.50	\$0.00	\$ -	\$ -	\$ 844.80	\$ 844.80
Cast walls flat - forms, WWM, pour		16	ea	32	0.5	1	\$733.50	\$ 366.75	\$ -	\$ -	1	\$262.50	\$131.25	\$ -	\$ -	\$ 498.00	\$ 498.00
Install angles to endwalls		64	ea	21.3333333	3	1	\$733.50	\$ 2,200.50	\$ -	\$ -	1	\$262.50	\$787.50	\$ -	\$ -	\$ 2,988.00	\$ 2,988.00
Install endwalls to landscape/TX walls		16	ea	8	2	1	\$733.50	\$ 1,467.00	\$ -	\$ -	1	\$262.50	\$525.00	\$ -	\$ -	\$ 1,992.00	\$ 1,992.00
Credit for cast flat instead of CIP		-16	ea	16	-1	1	\$733.50	\$ (733.50)	\$ -	\$ -	1	\$262.50	(\$262.50)	\$ -	\$ -	\$ (996.00)	\$ (996.00)
				0	0	1	\$733.50	\$ -	\$ -	\$ -	1	\$262.50	\$0.00	\$ -	\$ -	\$ -	\$ -
				0	0	1	\$733.50	\$ -	\$ -	\$ -	1	\$262.50	\$0.00	\$ -	\$ -	\$ -	\$ -
				0	0	1	\$733.50	\$ -	\$ -	\$ -	1	\$262.50	\$0.00	\$ -	\$ -	\$ -	\$ -
				0	0	1	\$733.50	\$ -	\$ -	\$ -	1	\$262.50	\$0.00	\$ -	\$ -	\$ -	\$ -
SUBTOTALS		4.5	days					\$ 3,300.75		\$ 14,129.28			\$1,181.25	\$ -	\$ -	\$ -	\$ 18,611.28
MISCELLANEOUS EQUIPMENT - % EQUIP		0										\$ 1,181.25	\$ -				\$ -
EXPENDABLES, SAFETY - % LABOR		0							\$ 3,300.75	\$ -							\$ -
OVERTIME - 10% LABOR		0					\$ 3,300.75	\$ -									\$ -
LABOR SUBSISTENCE - PER DAY, MEN		60	0						\$ 60.00	\$ -							\$ -
FUEL,OIL,GREASE,REPAIR - PER DAY - GALS, COST		0	\$3.00						\$ -	\$ -							\$ -
LABOR BURDEN - %		25					\$ 3,300.75	\$ 825.19									\$ 825.19
TAX ON MATERIALS - %		0							\$ 14,129.28	\$ -		\$ 1,181.25	\$ -				\$ -
ITEM SUBTOTALS					4.5			\$ 4,125.94		\$ 14,129.28			\$ 1,181.25	\$ -	\$ -	\$ -	\$ 19,436.47
																	CHECK \$ 19,436.47

LABOR COSTS	\$	4,125.94
MARKUP PERCENT:	17.5	
MARKUP ON LABOR:	\$	722.04
MATERIALS AND EQUIPMENT COST	\$	15,310.53
MARKUP PERCENT	17.5	
MARKUP ON MATLS AND EQUIPMENT:	\$	2,679.34
SUBCONTRACTOR COSTS	\$	-
MARKUP PERCENT:	17.5	
MARKUP ON SUBCONTRACTORS:	\$	-
SUBTOTAL	\$	22,837.85
BOND @ 1.5%	\$	342.57
TOTAL BID	\$	23,180.42

EQUIPMENT IN SCOPE - EQUIPMENT GROUP 1					
EQUIPMENT DESCRIPTION	QTY REQD	MONTHLY RATE	EQUIPMENT DAILY RATE	EQUIPMENT DAILY TOTAL	
Roller compactor	0	\$2,250.00	\$112.50	\$0.00	
Plate compactor	0	\$1,100.00	\$55.00	\$0.00	
Loader	1	\$3,500.00	\$175.00	\$175.00	
Bobcat	0	\$2,500.00	\$125.00	\$0.00	
Mini Excavator	1	\$1,750.00	\$87.50	\$87.50	
Open	0	\$0.00	\$0.00	\$0.00	
Open	0	\$0.00	\$0.00	\$0.00	
Open	0	\$0.00	\$0.00	\$0.00	
Open	0	\$0.00	\$0.00	\$0.00	
Open	0	\$0.00	\$0.00	\$0.00	
Open	0	\$0.00	\$0.00	\$0.00	
Open	0	\$0.00	\$0.00	\$0.00	
Totals				\$262.50	

LABOR /CREW IN SCOPE - CREW 1				
LABOR CLASS	QTY	HRLY RATE	HRS PER DAY	DAILY TOTAL
Superintendent	0	\$45.00	8	\$0.00
Foreman	0.5	\$25.00	9	\$112.50
Carpenter/Helper	1	\$23.00	9	\$207.00
Skilled Laborer	1	\$21.00	9	\$189.00
Operator	1	\$25.00	9	\$225.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Open	0	\$19.00	9	\$0.00
Totals	3.5			\$733.50

Item	Unit Price	Qty	Total Price
 Wedge Anchor, 1/2" dia., 5-1/2" L, PK50 Zoro #: G5936058 <i>Item ships from Zoro in 1 business day.</i>	\$153.36	3	\$460.08
Subtotal			\$460.08
Shipping			FREE
Tax			\$34.50
Order Total			\$494.58











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\$12.99	\$8.97	\$9.34	\$3.99
Shop Now 	Shop Now 	Shop Now 	Shop Now 

Contractor: Brothers' Construction Inc.
Project: Palm Beach Isles Bridges
CORB Project #18097
June 1st, 2021

Request #6

GRAND BAHAMA REDESIGN SUMMARY

This document provides a summary of the Request for Change Order (RFCO) submitted by Brothers' Construction, Inc. (BCI) for the impacts and additional efforts related to, and as a result of the redesign of the Grand Bahama Lane Bridges.

RFCO Value and Breakdown

The value of the RFCO is \$983,831.04 in accordance with the attached Project Bid Form/Schedule of Values (ATTACHMENT 1). The RFCO also includes a 115 calendar day Time extension to the end date of the Contract. The significant components of the RFCO are detailed on Pages 2 thru 4, and their approximate relative percentages are as follows:

1. Installation and removal of the south temporary bridge deck	28%
2. Additional MOT, Mobilization, and Utility efforts	21%
3. Additional BCI costs due to postponed Work and changed schedule	19%
4. Impact to BCI during redesign efforts	12%
5. Additional overhead since project duration extended (~3 months)	10%
6. Additional cost for resident security and landscape mitigations	6%
7. Bridge material escalation costs	4%
	100%

History and Timescale of the Project and Redesign

The City of Riviera Beach (CORB) issued the ITB in late May 2020, and published through an addendum that Award would be made in July, and NTP issued approximately August 10, 2020 (ATTACHMENT 2). The CORB received bids June 25th, and BCI was announced as apparent low bidder at the time of the public opening. BCI was in contact with the CORB throughout the summer anticipating the award. The CORB ultimately awarded the project and executed the Contract on October 7th, 2020 (ATTACHMENT 3).

BCI had significant interest in the Project at the time of bid, and provided an extremely competitive bid, since BCI's backlog of work on hand was relatively low, the published award date was almost immediately after the bid opening date, and the project offered the opportunity to work at several of the bridge sites in January 2021, enabling BCI and all bidders to efficiently schedule and overlap resources and work multiple crews. The ability and timing to work simultaneously at both the Island Drive Bridges and Grand Bahama Lane Bridges was confirmed in Addendum #2 Q/A (ATTACHMENT 4). BCI submitted its best bid to the CORB in the amount of \$4,039,405.00, based on the bid documents and the ability to work and schedule the Project as identified in the bid documents. BCI's bid was approximately 13% and 19% more economical than bidders #2 and #3 respectively based on the Bid Tabulations (ATTACHMENT #5).

The Preconstruction Conference for the Project was held on October 15, 2020, and it was at this time that BCI was notified by the CORB and its ENGINEERS (Alan Gerwig and Associates, Inc (AGA) and Erdman-Anthony (E-A)) that there was an ongoing issue with the design of the Grand Bahama Lane Bridges, and that the scope of work shown in the Contract documents was going to be changed. BCI reiterated during the preconstruction conference discussions that it had based its bid on mobilizing to Grand Bahama Lane to start and overlap Island Drive Work in early March 2021 (ATTACHMENT #6). There were no concerns voiced by the ENGINEERS or the CORB, and no indication was provided that the Grand Bahama Lane bridges would not start as scheduled. The work sequence and schedule dates were reiterated by BCI in a follow up email dated October 19, 2020 (ATTACHMENT #7).

Several months passed and the Project Team was focused on starting work at Island Drive. There were general brief discussions related to the Grand Bahama Redesign effort, but it was not until the progress meeting held on January 25, 2021 that the ENGINEERS announced that the redesign plan set would not be available until end of March, 2021 (ATTACHMENT #8). This disclosure prompted BCI to draft and send Letter #01, dated January 28, 2021, in which the ENGINEERS and the CORB were notified that the delay in the Grand Bahama Redesign would impact BCI and the Project (ATTACHMENT #9). BCI drafted and sent Letters #02 and #03 to the ENGINEERS and CORB in March and April detailing and providing the actual impact costs (ATTACHMENTS #10 and #11).

BCI received the conceptual Grand Bahama Redesign drawing sets from the ENGINEERS during the week of April 26th, and sent its Request for Change Order to the ENGINEERS and the CORB on May 14th, 2021, as part of Letter #04 (ATTACHMENT #12). The conceptual plan set was provided a month later than anticipated due to ongoing issues with the residents and utility companies.

Details of the Request for Change Order

The significant items and approximate proportions of the RFCO are listed in the Breakdown shown on Page 1 of this document, Items 1 thru 7. The following is a general description of each:

1. Installation and removal of the south temporary bridge deck
The redesigned bridge now requires that a temporary structure is constructed and removed on the south side of the work area. The temporary pile supported structure is constructed to allow traffic to temporarily cross the bridge while the permanent northern structure is built, and then is later removed since it is built within the footprint of a Temporary Construction Easement (TCE). This requirement is a result of the residents directly adjacent to the bridge requiring that the permanent bridge structure be constructed within the ROW limits (however the Work does include reconstruction of concrete caps along the seawall outside of the ROW).
2. Additional MOT, Mobilization, and Utility efforts
The new scope of work requires additional maintenance of traffic, utility relocates, and general costs typically charged to mobilization (QC testing, engineering, bonds, insurances, movement and staging of resources). BCI has also been forced to setup a separate staging area due to the changes in schedule and sequencing - see ATTACHMENT #13 – Staging Area at Sunset Lane.

3. Additional BCI costs due to postponed Work and changed schedule

BCI based its bid on the ability to Work simultaneously at both Island Drive Bridges and Grand Bahama Lane Bridges, and start Work at Grand Bahama Lane Bridges in March 2021 – both necessary to avoid idle periods associated with traffic and utility switches, and to effectively utilize its crews and equipment. BCI had no other choice but to modify its schedule in late March due to the unanticipated and extended efforts of the ENGINEERS to redesign the Grand Bahama Lane bridges (ATTACHMENT #14). The construction of all bridges has now become a nearly linear activity due to the effort required for the redesign, and the construction of the Grand Bahama Lane Bridges has become less productive since occurring nearly 6 months later (ATTACHMENT #15).

BCI will be strained to commit the same resources during the period of the modified schedule, and similar components of the bridges will be more costly to construct. This is largely due to (1) recent changes to BCI's available labor, and the overall labor market, (2) escalations and availability issues related to labor costs and most materials, (3) BCI having been awarded other work (ATTACHMENTS #16, Drayton Island, and #17, Buena Vista Pier), and (4) subcontractors and materials becoming more scarce, costly, and harder to schedule.

4. Impact to BCI during redesign efforts

BCI's heavy equipment has been idle since March since the redesign has prevented work from starting at Grand Bahama Lane Bridges as scheduled – see Letter #01, Attachment #9, and Letters #02 and 03, Attachments #10 and 11. BCI has not requested additional compensation for idle and underutilized labor costs that have resulted from the redesign efforts, and loss of overlapping activities.

5. Additional overhead since project duration extended

Based on the requirements and timing of the redesign plan set and modified scope of work, the anticipated completion date of the Project is now May 2022, extended from the original completion date of February 2022. The modifications and efforts are detailed in the Updated/Modified CPM Schedule (Attachment #18). The additional overhead costs include field supervision, project management, subsistence, travel time, and similar related project expenses.

6. Additional cost for resident security and landscape mitigations

BCI, the ENGINEERS, and the CORB have met with the residents immediately adjacent to the bridges. The residents have specific requirements to (1) allow the Temporary Construction Easements and south side temporary bridge construction, and (2) work to be performed on the seawall concrete caps outside of the ROW and within their private property. Their requirements are related to safety, privacy, and protection of property, and include temporary privacy fencing, landscaping, fence replacement, and similar property safeguard features.

7. Bridge material escalation costs

There have been significant material escalations that have occurred since the bid date. BCI has strong relationships with its vendors, subcontractors, and suppliers, and has been able to negotiate firm pricing throughout the Project for most items. The exception is that the supplier of the precast concrete items (piles, panels, deck slabs) has had a significant cost increase in production and shipping, and though willing to hold pricing for Island Drive components, has required a cost increase for the components associated with Grand Bahama Bridges since occurring so much later than anticipated.

Closing

BCI appreciates the opportunity to work along side E-A, AGA, and the CORB on this Project. We also appreciate the CORB's thorough and reasonable review of this RFCO, and hope that all parties agree it is a fair proposal and the additional Work will move forward. The timing is critical – this RFCO should be accepted by July 1st, 2021. There are at least 4 weeks of planning and coordination that is yet to come between BCI and the ENGINEERS related to temporary utility relocations, traffic control, shop drawings and submittals, and final plans preparations, so Work at Grand Bahama Lane Bridges can start in early August. Additionally, these dates and activities must proceed as mentioned, and depicted in the modified CPM schedule to allow efficient use of BCI's heavy equipment and resources (required for the bridge demolition and foundation construction) to transition from Island Drive Bridges in late August/early September.

We look forward to continuing a thus far successful effort in our partnership with the CORB, the ENGINEERS, and the local residents of Palm Beach Isles.