

## **EXPLANATION OF CONSENT AGENDA ITEM E.1.c.(8) March 18, 2015**

### **ITEM:**

- A. Consideration of approving an increase to P16458 to W&J Construction under their continuing services construction management contract for additional repair work on the CT5 overpass bridge in an amount not to exceed \$8,100. (Hartnett/Perley)
- B. Consideration of approving an increase to P16076 to RS&H under their continuing services engineering contract for bridge repair structural design and construction inspection services in an amount not to exceed \$ 8,124.94. (Hartnett/Perley)

### **EXPLANATION:**

In the November 2014 Commission meeting, the Board approved repairs to cracking along the overpass bridge between the CT5 bus loop and the CT6 terminal (Bridge #704900). Repairs were completed in February 2015. During the repair of the CT5 Bridge additional spalled beam ends were encountered. There was insufficient funds in the original contract to engineer and repair these additional items. Additional engineering, construction and construction inspection services is required to ensure the bridge is repaired to standards and FDOT codes.

RS&H will identify repair procedure for the seven (7) beam ends and seventeen (17) relief cuts to allow movement at the bottom of the beams. RS&H will provide signed and sealed structural repair documents for issuance to the contractor. RS&H will review the contractor submittals and provide construction inspection and oversight to ensure the repairs are made in conformance with the documents.

W&J Construction will coordinate and complete the repair work and provide the required maintenance of traffic.

### **Funding Review by Finance (Pat Poston):**

The total NTE amount of \$8,100 is included in the FY15 Capital Budget and no increase is required. [Budget item 1100-Road Improvements]

The total NTE amount of \$8,125 is included in the FY15 Capital Budget and no increase is required. [Budget item 1100-Road Improvements]

### **Staff Recommends Approval**

**Prepared by: David W. Perley AIC/CPE**



Item	Sec	Description	Material	Labor	Sub	Subcontractor Name
		A/E Design Phase Fees	0	0	0	
		A/E Construction Phase Fees	0	0	0	
1		General Conditions	0	0	2,100	1 Week (inc. telecom)
2		Project Fuel	0	0	125	1 Week
3		Project Toilets	0	0	80	W&J
<b>Additional Concrete Repairs</b>						
4		Repair (7) different areas at bottom of beams, spalled areas. Include saw cutting and chipping of unsound concrete. Place #4 rebar with epoxy dowels to help support that area.	0	0	2,275	VinMar
5		Provide relief cut to allow for more movement at bottom parts of the beams where touching. Cut both sides of beams, total (17) areas.	0	0	2,250	VinMar
Subtotals			0	0	6,830	
Sales Tax/P1&I (6.5/38)			0	0		
Total			0	0	0	
					6,830	
					0	By Owner
					60	
					0	
					342	
					0	Excluded
					0	
					7,232	
					868	
<b>Total Bid</b>					<b>8,100</b>	

# VinMar

Waterproofing & Concrete Restoration, LLC

P.O. Box 5588 - Lakeland, Florida 33807-5588

Phone #: (863) 647-1867 - Fax #: (863) 647-1608 - Cell #: (727) 421-4332

## PROPOSAL #529/2015

February 13, 2015

**Submitted to:** **W&J CONSTRUCTION CORPORATION**  
1038 Harvin Way, Suite #120  
Rockledge, FL 3295  
Phone # (321) 632-7660 - Fax # (321) 632-5927

**Project:** **PORT CANAVERAL REPAIRS - CT-5 OVERPASS BRIDGE**  
**Subject:** **Additional Spall Areas Repair**

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**Item # 1001** Seven (7) different areas at bottom of beams, spalled areas. Saw cutting and chipping of unsound concrete. Placing a #4 rebar with epoxy dowels to help support that area.  
7 Areas at \$325.00 each = **\$ 2,275.00**

**Item # 1002** The bottom parts of the beams are touching at these locations. A relief cut is needed to allow for more movement. Both sides of the beams need to be cut.  
17 Areas at \$150.00 each = ~~\$ 2,250.00~~ 2550  
**TOTAL OF PROPOSAL...** **\$ 4,825.00**


WILL SUBSTITUTE EPOXY MORTAR FOR  
CEMENTITIOUS FOR SAME PRICE.

Note: a. Please sign, date and return the present proposal via email, fax or mail if approved.

We hereby propose to furnish labor and materials in complete accordance with the above statement, for the sum of:  
**FOUR THOUSAND EIGHT HUNDRED AND TWENTY FIVE DOLLARS with 00/100 (\$4,825.00)**

All materials is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate.

Acceptance of Proposal and Authorized Signatures

  
Prepared by: Mercedes Marsh

\_\_\_\_\_  
Date



115 Alma Boulevard, Suite 101  
Merritt Island, FL 32953  
P: (321) 453-0212  
F: (800) 486-0634

February 23, 2015

Ms. Christy Hartnett  
Port Engineer  
Canaveral Port Authority  
445 Challenger Road, Suite 301  
Cape Canaveral, FL 32920

Dear Ms. Hartnett,

During the repair of the CT-5 Bridge (Str. No. 704900) additional spalled beam ends were encountered. Additional engineering and construction services for these repairs is required to ensure the bridge is repaired to standards and FDOT codes. Please accept the following proposal for professional services for repairs to CT-5 Bridge.

#### PROJECT DESCRIPTION

Canaveral Port Authority (CPA) desires to retain RS&H, Inc. (ENGINEER), to provide professional engineering and consulting services and construction management services associated with repairing the bridge deficiencies for the following location(s):

#### **CT-5 Bridge (Str. No. 704900) – Bridge Repairs**

The existing single-span bridge (Str. No. 704900) has several spalled beam end areas that need to be repaired. Damaged areas include:

1. Seven (7) additional beam ends of Structure No. 704900 will be repaired as well as seventeen (17) relief cuts to allow for more movement at bottom parts of beams, both sides. RS&H will review the field information and existing plans to determine the proper repair procedure. RS&H will provide a signed and sealed contract plans indicating the location of the repairs and the type of repair to be performed.

#### **SECTION 1 – APPLICABLE STANDARDS**

All plans and designs furnished by the ENGINEER are to be prepared with English Units. The current (latest) editions, including updates, at the time this agreement is executed, of the following manuals and guidelines shall be used as resources and reference materials in the performance of ENGINEER's work:

1. Manual of Uniform Minimum Standards for Design, Construction, and Maintenance of Streets and Highways, Florida Department of Transportation (FDOT), latest edition (Florida Green Book).
2. AASHTO Roadside Design Guide, latest edition.
3. FDOT Roadway Plan Preparation Manual, latest edition.
4. FDOT Roadway and Traffic Design Standards, latest edition.



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5. FDOT Standard Specifications for Road and Bridge Construction, latest edition.
6. MUTCD, latest edition.
7. FDOT Structures Design Guidelines, latest edition.
8. National Electric Code, latest edition.

### **SECTION 2 – ELECTRONIC FILES**

In addition to the number of copies at each submittal phase, the ENGINEER shall provide electronic files of all sketches, reports, and specifications. Design progress plans and the final plans will be in PDF format.

### **SECTION 3 – PROFESSIONAL SERVICES**

The tasks set forth in the Basic Services as listed in Section 3 of this Scope of Services are used to apportion the total man hours required to prepare the complete design and construction documents for this project across the various tasks. Some incidental tasks that are required may not be listed but are considered to be included in this Scope of Services. Upon receipt of the CPA's purchase order and Notice to Proceed, the ENGINEER shall begin performance of the basic services. The various tasks to be performed are described in the following sections.

#### **3.1 Task 1 – Project Administration and Management**

**A). CPA Coordination and Review** The ENGINEER shall prepare and submit Engineering Drawings for CPA review and comment. The ENGINEER shall then incorporate any changes based on CPA comments, into the Engineering Drawings prior to submitting final signed and sealed drawings to the CPA.

#### **Task 1 Deliverables:**

- Three (3) sets of Engineering Drawings (11" X 17") and one (1) PDF format electronic file furnished to the CPA;
- Written responses to CPA comments via letter, e-mail or fax.

#### **3.2 Task 2 – Construction Management**

The ENGINEER shall provide the following services:

- A). Construction Oversight** The ENGINEER shall provide On-Site Review of the construction activities as the project progresses toward completion. The Construction Oversight activities are based on an anticipated construction period of one (1) week. Scheduled activities include:
1. Removal of concrete
  2. Cleaning of concrete surfaces
  3. Rebar placement
  4. Cutting diaphragm surfaces
  5. Setting concrete forms



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- 6. Pouring concrete
- 7. Breaking concrete cylinders
- 8. Project cleanup

**SECTION 4 – SERVICES PROVIDED BY THE CPA**

The CPA will coordinate with the local utilities that will affect the bridge repairs and schedule for the Utilities to be shut off as required to complete the bridge repairs.

Price:

This is a time and materials with a not-to-exceed price:

Project Manager	4 hours - \$223.65 per hour rate	\$ 894.60
Bridge Design	20 hours for Senior Bridge Engineer - \$194.17 per hour rate	\$ 3,883.40
QA/QC	4 hours for QA/QC - \$199.25 per hour rate	\$ 797.00
Construction Management	12 hours for Senior Project Engineer - \$194.17 per hour rate	\$ 2,330.04
Clerical	3 hours for Clerical - \$73.30 per hour rate	\$ 219.90

**Total** **\$ 8,124.94**

RS&H looks forward to the opportunity to continue to support the Canaveral Port Authority as the engineering consultant for the repair of CT-5 Bridge, and we thank you for the consideration.

Sincerely,  
 RS&H, Inc.

Edward J. Gonzalez, PE  
 Vice President, Transportation-Infrastructure