



To: Christopher J. Lagerbloom, City Manager  
From: Raj Verma, Director – Public Works  
Date: November 5, 2020  
Re: Change Order No. #2 for Project #12089

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Job Description: Project 12089, Bridge Replacement at Coconut Isle  
Contractor: Cone & Graham, Inc.  
Amount: Total amount of Change Order #2 is \$79,374.37 plus 103 additional days  
Funding: P12089.331-6599

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**The purpose of this Change Order:**

*Is for the removal of the existing bridge at Coconut Isle Drive over the Grande Canal (Bridge #865732) and the construction of a new bridge. the Coconut Isle Bridge has low capacity sufficiency rating, based on the latest Florida Department of Transportation (FDOT) Bridge Inspection report issued in 2011. This project is a priority because the bridge is in danger of being closed to traffic by FDOT and FHWA. Moreover, the bridge is functionally obsolete, meaning that some bridge components of the superstructure are not in compliance with FDOT Standards.*

*The additional change orders to the original contract were due to unforeseen conditions during the construction of the east and west sides of the Bridge. The construction fees of the original contract did not include possible conflicts between the old bridge pile foundation and the new bridge pile foundation. Also, this change order includes the conflicts of the existing foundation and the foundation of the new Bridge which are reflected in this Change Order. Additional work was required by Broward County during the permit approval process, which were not included in the original contract. During the construction of the bridge, we encounter challenges in performing PDA testing for the temporary and permanent piles, to ensure the piles met specified capacity and helped to eliminate vibration damage to the adjacent structures.*

*Funds appropriated for this Change Order are contingent to the Budget Amendment scheduled for December 2, 2020 Commission Meeting Approval.*





**DEDUCTIVE COST ITEMS –**

**TOTAL CREDIT (\$6,384.00)**

- Item No. 1      Reduction of the approach slabs from 30-foot length to 20-foot length to avoid utility conflicts from the Bid Item 12201-293-01-14 – Base Bid: Concrete Class II, approach slabs with an original quantity of 74.5 cubic yard (CY) at a cost of \$480 per CY, reduce from \$35,760.00 to \$29,376.00.
- (\$6,384.00)**

**NEW AND EXISTING CONTRACT ITEMS ARE UTILIZED –**

**TOTAL ADDITIVE COST \$85,758.37**

- Item No.2      Based on unforeseen condition the Temporary support pile did not achieve plan capacity and PDA Testing for Temporary Support were required to measure the actual capacities of the driven piles. The PDA testing for a temporary support pile will be a new schedule of value.
- \$3,645.81**
- Item No.3      PDA (dynamic) testing of the Phase 1 permanent bridge piles for 1 day PDA testing for 4 permanent piles, data analyses and report provided to Engineering of Records (Hardesty & Hanover) and to Engineering Department to ensure the piles met specified capacity and helped eliminate vibration damage to the adjacent structures. The PDA testing for 4 permanent piles is an additional cost under pay item 12201-293-01-24.
- \$4,000.00**
- Item No.4      Since the bridge was built in 1925, the City has not archived records on the existing bridge. As a result, an As-built survey was prepared to address conflict between the sheet pile and the foundation of the existing bridge. This work was completed to verify the layout of the installed sheet piles and to detail the as-built conditions for the Engineer of Records (Hardesty & Hanover) to develop a remedy. The As-Built Survey for sheet pile conflict is an additional cost under pay item 12201-293-01-23.
- \$5,055.11**



**Item No.5** Additional cost for the removal and disposal a wooden piles that were not in the Construction Drawings. The existing bridge footings had to be removed as they conflicted with the new concrete sheet piles and the temporary steel sheeting for the Phase 1 of the project. This work is covered under pay item 12201-293-02-01.

**\$12,774.65**

**Item No.6** Additional cost for the additional colored pipe and pipe supports to span from the end of the new bridge to the locations of the existing seawall that was required by the City Utility Department and it was not included in the original contract. This work is an additional cost under pay item 12201-293-01-31.

**\$5,353.97**

**Item No.7** Additional cost to cover the NE Seawall corner drain -pipe modification not shown on the Construction Plans. This item also includes the additional cost for delaying the project for 29 calendar days due to the unforeseen condition of the unsuitable soils and debris were causing the NE Temporary FPL pole to become unstable during the excavation for the water and sewer relocation work. The Contractor was waiting for FPL to stabilize the temporary post to proceed with the utility relocation work This additional work will be a new schedule of value.

**\$28,118.34**

**Item No.8** Due to the poor soil conditions and vibrations to the surrounding building it was agreed upon additional costs of changing the Phase 4 piles to 100% PDA (Test) piles. This item includes the additional PDA Engineer cost to perform set-check during the pile driving. The poor soil conditions resulted in low initial pile capacity measurements that required verification through set-checks performed in accordance with Project Specification 455-5.10.4 Set- Check and Pile Redrive This work is an additional cost under pay item 12201-293-01-24.

**\$15,019.60**

**Item No.9** Additional cost to covers the cost for the Sub-Contractor, Johnson-Davis' additional work required for installation of the Force Main Gate Valve and Grouting of the Abandoned Water and Sewer Lines as required by Broward County for permitting approval. This work is an additional cost under pay item 12201-293-01-31.

**\$3,728.10**



Item No.10 Additional cost for the removal and disposal of wooden piles that were not in the Construction Drawings. The existing bridge footings had to be removed as they conflicted with the new concrete sheet piles and the temporary steel sheeting for the Phase 2 of the project. This work is covered under pay item 12201-293-02-01.

**\$4,619.32**

Item No.11 Due to the issue with the alignment of the deck slab PS-5, as shown in the plans page G07, the plans deck slab PS-5 extends approximately 8-inches east of the crown of the end bent cap and roadway. As a result, the deck slab PS-5 will not be in full contact with the end bent cap east of the centerline of roadway/crown. The Contractor was directed to come out with a plan to correct the issue. The alignment of the deck slab PS-5 will be a new schedule of value.

**\$3,443.47**

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**NET AMOUNT OF THIS CHANGE ORDER** **\$79,374.37**

**ADDITIONAL CONTRACT TIME BEING REQUESTED— ONE HUNDRED AND THREE (103) CALENDAR DAYS**

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**THE TOTAL AMOUNT OF THIS CHANGE ORDER** **\$79,374.37**

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This Change Order provides for all costs and schedule adjustments associated with completing the work, including materials, labor, equipment, bond, insurance, overhead, profit, impacts, and any and all related items or associated costs incurred or resulting from the items listed above, and is provided in accordance with Article 13 – Changes in the Work of the Contract.

IN WITNESS OF THE FOREGOING, the Parties have set their hands and seals the day and year first written below.

CONE & GRAHAM, INC., a Florida corporation

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

Lee Corrigan, Project Manager

Dated: \_\_\_\_\_

1/12/2021



CITY OF FORT LAUDERDALE, a municipal  
corporation

By: \_\_\_\_\_  
**CHRISTOPHER J. LAGERBLOOM**  
City Manager

Dated: \_\_\_\_\_

(CORPORATE SEAL)

ATTEST:

By: \_\_\_\_\_  
**JEFFREY A. MODARELLI**  
City Clerk

Approved as to Legal Form:  
Alain E. Boileau, City Attorney

By: \_\_\_\_\_  
**RHONDA MONTOKA HASAN**  
Assistant City Attorney

C: Aneisha Daniel, Deputy Director – Public Works  
Jill Prizlee, P.E., M.S., Chief Engineer  
Raymond Nazaire, P.E., Acting Senior Project Manager  
Connie Hayman, Project Manager II  
Financial Administrator  
Project File P12089





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**CHANGE ORDER SUMMARY SHEET**

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ORIGINAL CONTRACT AMOUNT	\$1,418,351.26
COST OF CHANGE ORDERS TO DATE	(\$10,765.40)
COST OF THIS CHANGE ORDER	\$79,374.37
TOTAL:	<b>\$1, 486,960.23</b>
ORIGINAL CONTRACT TIME	365 calendar days
TIME ADDED TO DATE	0 calendar days
TIME ADDED TO THIS CHANGE ORDER	103 calendar days
TOTAL:	<b>468 calendar days</b>

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**SCHEDULE OF CHANGE ORDERS TO DATE**

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C.O.#	DATE	DESCRIPTION	AMOUNT OF COST OR CREDIT
1	1/15/2020	Various credits and additions	(\$10,765.40)