

## CHANGE ORDER FORM

Contractor: CBC Construction, Inc.Change Order No: 2Project: Pump Station 1 & Force Main Upgrade, Phase II

Date: 11/23/16

The contractor shall make the following changes in this contract (see sheet 2 below for explanation):

<b>Item 15.01 Mobilization/Demobilization</b>	<b>+\$3,432.00</b>
<b>Item 30.05 P.C.C. Concrete Slab 6" Thick</b>	<b>+\$6,235.00</b>
<b>Item 50.14 Pumping and Bypassing Sewage Flows</b>	<b>+\$9,652.96</b>
<b>Item 60.12 Abandon Pipeline in Place</b>	<b>- \$1,000.00</b>
<b>Item 11176 Pump Station PS-1</b>	<b>+\$15,960.64</b>
<b>Item 11176 Pump Station PS-2</b>	<b>+\$4,450.00</b>

**Substantial completion date shall be changed from August 15, 2016, to September 8, 2016.**

**Final completion date shall be changed from September 1, 2016, to December 31, 2016.**

The original contact sum \$574,000.00

Net changes by previously authorized change orders: \$66,130.00

Contract sum prior to this change order was: \$640,130.00

Contract sum will be:

Increased	<u>  x  </u>
Decreased	<u>      </u>
Unchanged	<u>      </u>

By this change order: \$38,730.60

The new contract sum including this change order will be: \$678,860.60

The new final completion date for the project will be: December 31, 2016

Recommended by:

Agreed to:

\_\_\_\_\_  
Chris Cotta, Asst. Public Works Dir.

\_\_\_\_\_  
Chris Balovich, CBC Const. Inc.      Date

\_\_\_\_\_  
Stephen Giesbrecht, Borough Mgr.      Date

Pump Station 1 and Force Main Upgrade Phase II  
Change Order No. 1 – CO Item Details

Item 15.01 Mobilization/Demobilization +\$3,432.00: This item represents additional costs for personnel related expenses for the extra completion time related to the pump station work.

Item 30.05 P.C.C. Concrete Slab (6" Thick) +\$6,235.00: Additional concrete work needed to fill in around the various structures. An extra 29 square yards at contract price of \$215 per SY.

Item 50.14 Pumping and Bypassing Existing Sanitary Sewage Flows +\$9,652.96: Contractor experienced delays related to changed conditions detailed elsewhere in this change order. Extra bypass pumping time was necessary due to the delays associated with the additional work. Negotiated as a lump sum item.

Item 60.12 Abandon Pipeline in Place - \$1,000.00: Removal of one pipe crossing was eliminated as it would have required equipment to be placed on the beach, which was not included in the Borough's environmental permit for the work.

Item 11176 Pump Station PS-1 +\$15,960.64: Work on Pump Station 1 took considerably longer than anticipated. The excavation had to go 3' deeper than planned and this took the hole down into the water table. Additional shoring and dewatering was required to keep the work site safe. Backfill was slower due to removal of shoring and also required additional material due to the extra unusable excavation encountered. Inside the pump station, pipe inlet inverts were too close to the drywell floor and required custom offset fittings be installed to allow bolting up the pumps. Planned pipe outlets conflicted with exterior structural reinforcement of the drywell. The inlet elevation issue and outlet location issue resulted in a complete redesign of the interior piping configuration, with several additional fittings needed. This work was tracked on a time and materials basis. The amount of this change order item represents the total hours and materials required for all the additional work at Pump Station 1.

Item 11176 Pump Station PS-2 +\$4,450: During rehab of Pump Station 2 it was determined that the existing elevation of the steel wet well lid was not going to match up very well with surrounding grade, and also might cause problems when pulling the pumps for maintenance. To overcome these issues, CBC replaced the top barrel section of the manhole with a shorter section. Time and materials per CBC's quote.

Substantial Completion Date was changed from August 15, 2016, to September 8, 2016, in order to allow for the extra time to complete the additional work items above.

Final Completion Date was changed from September 1, 2016, to December 31, 2016, to give the Contractor additional time to address punch items, some of which are dependent on tide and weather conditions allowing completion.