



Memorandum

07/27/22

To: Steve Giesbrecht, Borough Manager  
CC: Mayor Jensen and Members of the Petersburg Borough Assembly  
From: Chris Cotta, Public Works Director  
Re: Public Works Culvert Replacement Change Order No. 1

The culvert replacement project is in the close out stage and the contractor is finishing up the last of the contract work. Reid Brothers has done a great job with a very challenging and unpredictable project and is finishing the job ahead of schedule.

As with almost any large civil project and especially the underground variety, conditions encountered while digging varied from what was anticipated in the project drawings. There was a lot more unsuitable material that had to be hauled to the landfill for disposal, which significantly increased the project cost for material disposal. The remaining excavated material was less sound than hoped, so a plan was developed to construct shot rock walls on either end of the project that would be strong enough to contain the less competent material located within the core of the backfilled area. This change increased the tonnage of shot rock significantly. Another change was related to the bedding material for the new culvert. After consulting with the project engineer and the culvert manufacturer, the amount of bedding material was increased to provide some extra margin of integrity for the new culvert. We were able to use a lower grade of material for much of the culvert bedding and thus were able to negotiate a cost reduction which saved a little over the original contract unit price.

The aforementioned items account for most of the proposed \$342,228.53 change order cost. There were also some minor overruns and underruns which had a lesser impact on the contract cost. All change order items are detailed in the attached spreadsheet, which shows the original contract price and how the final contract amount was derived. After allowing for the items within Change Order No. 1, the new contract amount is \$910,833.53. Although this amount is quite a bit larger than the original contract amount of \$568,605, it is within the budget of \$970,425 allocated by FEMA for this work. The scope and goals of the project did not change, only the project quantities, so the overage will be fully

**Public Works Department**

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covered by FEMA funding and the Borough will not have to pay for any of the change order out of pocket.

If you are in agreement with Change Order No. 1 as described above, please forward it to the Borough Assembly for consideration at their next regular meeting on August 1, 2022. I'll be present at the meeting to answer any questions that may arise in regards to the need for the additional work. Thank you.

Attachments: Change Order 1  
Culvert Project Spreadsheet

**Public Works Department**