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Public Works

City Transit
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MEMORANDUM

Equipment Maintenance
Roadway Maintenance
Collection & Drainage
Building & Grounds
Engineering

To: Gregg Mandsager, City Administrator
CC: Fran Donelson, Secretary
FROM: Randy Hill, Public Works Director
DATE: January 5, 2015
RE: Change Order #2 – Forest Parkway Reconstruction Project

INTRODUCTION:

The City of Muscatine has contracted with Heuer Construction for the reconstruction of Forest Parkway and Long Meadow Lane. Forest Parkway was identified as having one of the lowest pavement condition index ratings in the City.

BACKGROUND:

Deterioration of Forest Parkway and Long Meadow Lane has progressed beyond the ability to correct with an asphalt overlay. Design for this project primarily included concrete pavement and subgrade removal and replacement. The original contract amount was \$163,526.34.

RECOMMENDATION/RATIONALE:

Cold weather in November necessitated the placement of insulating blankets on the new concrete and on the exposed subgrade in order to keep them from freezing. Referencing DOT standards for cold weather protection under temperature adverse conditions, the insulation blankets were placed twice by the contractor. A break in the cold weather allowed the contractor to complete the project saving a substantial amount of cost and neighborhood inconvenience. The contractor is requesting \$4,765.44 for the application of the insulation blankets.

Staff recommends approval of Change Order #2 in the amount of \$4,765.44.

BACKUP INFORMATION:

1. Memo from Steve Dalbey dated December 26, 2014
- 2.

**"I remember Muscatine for its sunsets. I have never seen any
on either side of the ocean that equaled them" — Mark Twain**

December 26, 2014

To: Randy Hill, Public Works Director

From: Steve Dalbey, Construction Inspector

Subject: Forest Parkway Reconstruction Project Change Order #32

Before the sudden onset of cold weather in November one-half of the paving on Forest Parkway and Long Meadow Lane had been completed. The sub-freezing temperatures necessitated the placement of insulating blankets on the new concrete and on the exposed subgrade in order to keep them from freezing. The long-term weather forecast was uncertain and there was a narrow window of opportunity to finish the paving of Long Meadow Lane and Forest Parkway. If the rest of the paving was not completed in the fall it would have required backfilling the unpaved lanes and removing the backfill material in the spring at a substantial cost. The opportunity to finish the paving arose and all of the concrete work was completed.

The construction plan references compliance with Iowa Department of Transportation specifications that require cold weather protection under temperature conditions faced on this project. Cold-weather protection measures are taken to allow the concrete to cure properly in order to prevent premature failure caused by freezing the surface of the concrete after pouring it. The contract made no mention of cold-weather protection, either as a pay item (at City cost) or as being incidental to the rest of the project (at contractor cost). This put the contractor in the position of arguing for payment for cold weather protection measures. The DOT specifications provide for payment at a rate of \$1.00 per square yard (SY) for each time that the insulating blankets are placed and removed. This occurred twice, once in advance of the paving and then again after the paving had been completed. The total SY of concrete protected each time was 2382.72. At \$1 per SY for two coverings, the total owed to the contractor is \$4,765.44. This resolution is consistent with IDOT specifications. This was not a DOT-funded project but the reference to DOT specifications on the cover sheet of the plans brought the cold-weather protection payment provision into play.

In order to process the payment, a change order needs to be approved by the City Council. Please put this issue on the agenda for the January 8th City Council meeting for their consideration and approval. Pay application #5 will be submitted for payment at that time and will include this change order amount for cold-weather protection.