



CITY COUNCIL AGENDA ITEM

Date: January 17, 2012

To: John Szerlag, City Manager

From: Mark F. Miller, Director of Economic and Community Development
Steven J. Vandette, City Engineer

Subject: Addendum No. 1: Contract 10-5 – Tallman and Eckford Water Main Replacement

Background

Pamar Enterprises, Inc. was awarded the Tallman and Eckford Water Main Replacement contract in February 2011 by Resolution No. 2011-02-051-J-4a for a total estimated cost of \$641,805.00. The project provided for a 10% contingency which is standard for City water main projects.

The project called for pavement replacement on Tallman Street limited to narrow pavement removals at water main crossings. As construction progressed, it became apparent that the pavement surrounding the water main crossing areas was disintegrating due to a concrete condition known as Alkali-Silica Reactivity (ASR). ASR is a pervasive concrete durability problem responsible for premature deterioration of pavement and structures in the United States and around the world. ASR propagates many small cracks in the concrete that join to create a map-like pattern and ultimately reduces the concrete to gravel. Pavement areas that were not intended to be replaced disintegrated due to ASR and incidental construction traffic during the course of construction.

We expect streets within water main construction zones will become damaged during the course of a water main construction project and for this reason, we typically plan for a pavement rehabilitation project one year after water main construction is completed. Due to the immediate attention that was required for these damaged pavement areas and the obvious benefit to the local residents and Leonard Elementary School by getting the water main and pavement work completed at one time, we moved forward with rehabilitating Tallman Street pavement, as part of the water main project, instead of waiting a year. The result was more pavement replacement on this project than was originally planned.

Since it is not practical or cost effective to stop construction for days or weeks until a change order can be processed for minor increases in contract quantities, construction continues until final completion of the project. If the contract contingency is sufficient to cover added costs, as is usually the case, final payment to the contractor is made and the project is closed out. If, as in this case, the project cost exceeds the contract contingency, City Council approval is required prior to making the final payment to the contractor and closing out the contract, which is scheduled for this spring following final completion of all remaining landscape restoration.

The amount exceeding the 10% contingency on the water main project is an estimated \$63,500.00 or 9.9%. Due to all necessary pavement repair on Tallman being done with the water main project, there will be no need for a follow up pavement rehabilitation project



CITY COUNCIL AGENDA ITEM

Recommendation

It is recommended that City Council approve Addendum No. 1 in the estimated amount of \$63,500.00 for the Tallman and Eckford Water Main Replacement project to Pamar Enterprises, Inc, 58021 Gratiot, New Haven, MI 48048.

Fund Availability

Funds for this work are included in the 2010/11 Water Fund. The budgeted amount includes funds for construction, inspection and contingencies.

Legal Considerations

N/A

G:\Contracts\Contracts - 2010\10-5 - Tallman and Eckford Water Main Replacement\Correspondence\Council_Agenda_Over 10%.doc

Typical Tallman Street Pavement Failure Areas

