



## CITY COUNCIL AGENDA ITEM

August 1, 2016

TO: Brian Kischnick, City Manager

FROM: Tom Darling, Financial Services Director  
Mark F. Miller, Director of Economic and Community Development  
Paul Trosper, Superintendent of Water & Sewer  
Steven J. Vandette, City Engineer

SUBJECT: **Adams Road Water Main Relocation**  
MDOT I-75 Reconstruction Project  
Change Order #1 & Budget Amendment  
MDOT Contact #16-5075  
Troy Contract #16-6 / Project #16.506.5

### History

Phase I of the I-75 reconstruction project, from South Boulevard in Auburn Hills to north of Coolidge Road in Troy, is scheduled to get underway in mid to late August of this year. It's a two year project, ending in November of 2017.

Northbound I-75 and the northbound bridges will be reconstructed first in 2016, followed by southbound in 2017. Traffic will be diverted to the south side of I-75 where two (2) lanes of traffic will be maintained in each direction then switched to the north side in 2017. Only work not impacting drive lanes will occur over the winter from December 2016 to April 2017. All lanes in both directions are to be open during that time period.

The Adams Road structure at I-75 will be demolished and a new structure built as part of the 2016 work this fall. Initial review of the design build project has shown a conflict with the existing 12" asbestos-cement (AC) water main and the pier reconstruction required for the new bridge. The present location of the City of Troy owned main water main runs under I-75 in the north bound lanes of Adams Rd.

In its present location, it will be in very close proximity to the pier demolition and rebuild. AC water main is very susceptible to breakage if disturbed by ground movement, vibration or equipment being used in the vicinity. Staff is of the opinion that this section of water main should be relocated as part of the I-75 project.

MDOT's stance on the relocation of this 12" AC water main is that because it is not in direct conflict with the demolition and building of the bridge structure it is not to be included as a project cost.

This section of 12" AC water main is the only feed supplying water to the residential area bounded by Square Lake Road to the south; Adams Road to the west; Coolidge Highway to the east; and Bretby/ Parkview to the North (Section 6). This is the sole water feed to this area and is the result of isolation zones and elevation constraints. Isolation zones can be reconfigured in this area, but due to the higher elevation in this part of the City of Troy adequate water main pressures would not be possible. This section of 12" water main is crucial to the sustainability of acceptable pressures in this isolation zone.

The chance that this water main sustaining damage during this extended project are, in our opinion, too great to allow it to remain in its present location, and recommend moving forward with the relocation of the section of 12"AC water main that is within the scope of this project.

Staff met with Dan's Excavating, Inc. (DEI) and MDOT to discuss the water main relocation. DEI's cost to relocate the water main is \$97,202, per the attached quote.

The water main relocation work would start after Labor Day to allow completion prior to bridge demolition which is tentatively scheduled to start on September 15, 2016.

### **Financial**

By Resolution #2016-04-073-J-6, April 18, 2016, Troy City Council approved MDOT Contract #16-5075. The City's share of the overall project is \$635,000 based on the City's 12.5% Act 51 share. At this time, it is unknown if the City will be required to pay our Act 51 share of the project. Senator Knollenberg continues to advocate on behalf of the locals to eliminate the local share. The negotiations are ongoing.

The water main relocation would be an additional cost, outside of our Act 51 share, as it is considered a "Betterment" in accordance with Section 6.3.4 of the Design Build contract (see attached).

The 2016 Water Fund will require a budget amendment of \$121,500 to complete the water main relocation, including contingency.

### **Recommendation**

It is recommended that City Council approve the relocation of the 12" asbestos-cement water main at the Adams Road bridge as part of the I-75 reconstruction project. In addition, we are requesting authorization to approve additional work, if needed, not to exceed 25% of the original project cost due to unknown quantities of work that may be needed.

#### **6.3.4 Betterments**

A proposed Betterment will be added to the scope of the Work if Approved by MDOT. MDOT agrees to issue a Change Order increasing the Contract Price on account of any Betterment added to the Utility Work in this section. The amount of any Change Order related to Utilities shall be a direct pass-through of the negotiated amount by the Design-Builder, MDOT and the Utility Owner (with no additional mark-ups) or, if no such price has been negotiated, an amount determined in accordance with the agreement entered into with the Utility. The Design-Builder shall not request or accept any payment directly from the Utility Owner for any Betterment added to the Work.

MDOT may Approve the addition of a Betterment to the scope of the Work in this section only if: (a) the Utility Owner has agreed to the addition of such Betterment to the Work, (b) such Betterment is compatible with the Project, (c) the Utility Owner has agreed to reimburse MDOT for all the costs thereof, (d) the Utility Owner has agreed as to the method (e.g., negotiated amount, unit prices or time and materials cost basis) of pricing such Work, and (e) it is feasible to separate the cost/pricing of the Betterment work from that for any related Utility Work being furnished or performed by the Design-Builder. The Design-Builder shall provide MDOT with such information, analyses and certificates as may be requested by MDOT in connection with its Approval.

If a proposed Betterment changes the scope of the Work it shall not be considered a MDOT-Directed Change.



August 1, 2016

Attn: Mr. Dennis Cooper

RE: I-75 DB Modernization Project at Square Lake Road  
MDOT Job No. 63174-115576  
City of Troy Water main Relocation under Adams Road

Dear Dennis:

Dan's Excavating, Inc is pleased to provide MDOT with a quote for additional work that will be considered a betterment to the local communities as stated in section 6.3.4 of Book 2. This work has been discussed by both MDOT, Dan's and City of Troy. The work was requested as the reconstruction of the new Adams Road Bridge along with the proximity of the 12" AC water main to the new bridge, compelled the City of Troy to request the relocation of that pipe.

The price includes but is not limited to:

- 1) Installation of approx. 300 Lft of HDPE SDR 11 14" directional bored 300 lf @ \$115.00/lft \$34,500
- 2) 2 Gatewells and valves to isolate the line for future use. 2 ea. @ \$15,000/ea
- 3) The tie-in and disposal of existing AC pipe using certified asbestos contract personnel. 2 ea. @ \$13,000/ea
- 4) Mobilization and Traffic Control 1 ls @ \$6,702.00

The price does not include:

- 1) Securing or payment of any governmental permits or inspection fees
- 2) Additional work outside the proposed sketch and write up received by Dan's and supplied by City of Troy Engineering
- 3) Survey Layout of gatewell locations (City to provide this information)
- 4) All testing of lines will be done by City of Troy

The total cost for this work including all labor, material and equipment will be \$97,202.00. We would like to discuss the timing and any details you would like at your earliest convenience.

Should you have any concerns, please feel free to contact me.

Sincerely,

DAN'S EXCAVATING, INC.

Joseph  
Goodall

Digitally signed by Joseph Goodall  
DN: cn=Joseph Goodall, o=Dan's  
Excavating, Inc, ou=Project Manager,  
email=jgoodall@dansexc.com, c=US  
Date: 2016.08.01 11:37:32 -04'00'

Joseph A. Goodall  
Vice-President