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Public Works

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MEMORANDUM

Equipment Maintenance
Roadway Maintenance
Collection & Drainage
Building & Grounds
Engineering

To: Brian Stineman, Public Works Director
FROM: Jim Edgmond, City Engineer
DATE: December. 30, 2016
RE: Advance Archeological Investigations in select spots required by EA and MOU for Mississippi Drive Corridor Project

INTRODUCTION:

The existing Environmental Assessment (EA) and supporting Memo Of Understanding (MOU) for Mississippi Drive Corridor project (MDC) requires the City to hire an archeologist to baby sit the construction in four locations to monitor the construction for historical or archeological significant material that maybe uncovered during the construction process. It is my concern and our Environmental Consultant's concern that this requirement could/ might lead to stopping of construction to further investigate uncovered material and lead to contractor delay claims.

BACKGROUND:

The Environmental Consultant and the City Engineer have reviewed these requirements and are proposing to do Archeological Investigations in advance of the construction to eliminate the need for the monitoring during the construction. This has three distinct advantages to the City.

- This advance effort minimizes the chances that the construction will be stopped during construction for archeological investigations.
- This minimizes the chances for the contractor to request money for delay due to the archeological investigations.
- Increases the City's chances of hitting the deadline associated with the opening of the new hotel.

The cost of doing this advance work is between \$27,240.00 and \$34,040.00. These costs have been minimized by the Public Works/ Street Department agreeing to do the pavement removal and the traffic control necessary to support this advanced investigation at no cost to the project. The plan is to do this work as soon as no more snow removal is anticipated. This allows the Street department to temporarily patch the roadway instead of permanently patching it, thus saving more money. Funds for this will come out of the Jurisdictional Transfer Funds set aside for this project.

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

RECOMMENDATION/RATIONALE:

Recommend City Council approve the expenditure of funds to do this archeological investigation in advance of the MDC construction planned for the Spring of 2017.

BACKUP INFORMATION:

1. Estimate of possible cost for doing the extended Phase I testing for MDC Project.

Estimate of possible cost for hiring a subcontractor to do the Extended Phase I testing pavement removal for the Muscatine Mississippi Drive Project:

Using the attached cost rate sheet from IWS, the potential costs are estimated to total as follows:

Drill 10-inch core holes through pavement layers to allow hand augering = \$495 x 40 (10 per site) = **\$19,800**

Flat sawing a 3 x 3 test hole = \$850 per hole for 8 holes (2 per site) = **\$6,800**

Travel charge \$160 per trip = at present this total is unknown because the logistics are so uncertain as to how many holes can be drilled or cut per day and how long traffic could be redirected from any one of the four site areas at a time. However, it is anticipated that it could take a maximum of four trips to complete the original 40 tests, but then we would have the flat sawing of the 8 square tests (if needed) on the last trip. So, **a total estimate for trip charges would be \$640.**

Grand total estimate = \$27,240

The above totals are based on IWS drilling 10 10-inch holes per site and then Tallgrass hand augering each of the holes and then backfilling to a sufficient level where the City could then apply a pavement patch. The attempt will be made to get the excavations done as quickly as possible so that traffic will not be disrupted too long; however, it will take approximately 1-2 days to get the hand augering completed for each site.

The 8 possible 3x3 saw cut test pits would be a maximum of two per site but would depend on whether anything of potential archaeological significance was encountered in any of the tests. The purpose of the larger test pits would be to get a closer look at the site stratigraphy, examine any potential features (foundations, privy pits) encountered in the augers, and/or to gain more control over the depth to the significant cultural material. It may be that the 3x3 test pits may not be executed at all if nothing of potential significance is indicated in the shovel tests. **Therefore, the \$6,800 may be an expense that is not actually spent.**

As noted in the Tallgrass cost and scope, if the City decides to do the pavement removal in-house, then there would be no need to hire a subcontractor. I was up front with IWS that their estimate may not lead to actual work, so they are aware of this possibility.

Submitted by Tallgrass Historians L.C., August 17, 2016

Mike to call me back 12-27-16

Quotation



Quote: 000006867
 Quote Date: 08/17/2016
 Quote Expires: 09/16/2016
 Job Name: CORE DRILL

Fax 1-319-934-3279 * Email: info@IowaWallSawing.com

2600 Quasqueton Diagonal Blvd, Independence, IA 50644

PREPARED FOR	JOB SITE ADDRESS
TALL GRASS HISTORIANS 2480 SOUTH RIVERSIDE DR Iowa City, IA 52248 Phone: 319-354-6722 Fax: Attn: LEAH ROGERS	IOWA CITY, IA Sales Rep: PETER MURRAY

Qty	Description	Each	Total
10.00	CORE DRILLING CORE DRILL @ 18" DEPTH, (ASPHALT, CONCRETE & PAVERS) CUSTOMER TO HAVE MARKED, IWS TO HAUL WATER, (10) 10" CORE HOLES CONTACT = LEAH @ 319-343-6722	495.00	4,950.00
1.00	FLAT SAWING FLAT SAW @ 18" DEPTH, (ASPHALT, CONCRETE, PAVERS) IWS TO HAUL WATER, IWS TO REMOVE PER CUSTOMER (1) 3' X 3'	850.00	850.00
2.00	TRAVEL CHARGE TRIP CHARGE TO BE ADJUSTED FOR MORE OR LESS TRIPS	160.00	320.00
			8,120.00

STANDARD CONDITIONS: The customer is responsible for maintaining the job site and their equipment per OSHA standards. Clear and open access must be provided. Iowa Wall Sawing accepts no liability for any damages to anything located or concealed in or under concrete, or beneath the material to be cut, cored, broken, nor for injury or dual damage. Prices are quoted for standard overhead for all work at ground level. Additional charges will be made for overtime and outside-time.
STANDARD EXCLUSIONS: Layout, crane control, bermsides, patching anchor holes, power saws, lighting, water source, water control, shanty control and removal, blocking stairs, overhead beams, scaffolding, methods, variations, shoring, core catching, cutting or drilling any steel or any obstacles unless specifically detailed above.

SIGNATURE: _____ PRINT NAME: _____ DATE: _____

*** THIS QUOTE IS GOOD FOR 45 DAYS UNLESS OTHERWISE SPECIFIED ABOVE.***
 - WE ACCEPT ALL MAJOR CREDIT CARDS -