



1459 Washington St.  
Muscatine, IA 52761-5040  
(563) 263-8933  
Fax (563) 263-2127

**Public Works**

**City Transit**  
263-8152

**MEMORANDUM**

**Equipment Maintenance**  
**Roadway Maintenance**  
**Collection & Drainage**  
**Building & Grounds**  
**Engineering**

**To:** Kristy Korpi, Interim Public Works Director  
**FROM:** Jim Edgmond, City Engineer  
**DATE:** May 3 2016  
**RE:** Change Orders, 2016-8001 and 2016-8002 of Phase 3B Sewer Separation Contract

**INTRODUCTION:**

The City of Muscatine is reconstructing streets taken out because of the sewer separation contract. During this reconstruction process the contractor has encountered unsuitable soils that require extra work to stabilize the subgrade prior to placing the aggregate subbase and the PCC pavement. Additional aggregate is needed for the contract and engineering fabric is added to the contract. The other change order is to remove a manhole from the design and replace with a clean out riser.

**BACKGROUND:**

A detailed description of all items included in these changes is included on the attached change orders 2016-8001 and 2016-8002. Cost for change order 8001 is \$4,940.00. The cost for change order 8002 is a credit of \$2,807.00. This yields a net increase to the contract of \$2,133.00.

**RECOMMENDATION/RATIONALE:**

The Project Management Team and the City Engineer recommends approving these change orders as they are necessary to complete the project.

**BACKUP INFORMATION:**

1. Change Order 2016-8001
2. Change Order 2016-8002

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

**CONTRACT MODIFICATION**

No: 2016-8001

		Non-
Non-Substantial	<input type="checkbox"/>	Part
Substantial	<input type="checkbox"/>	Part

Concurrence Date \_\_\_\_\_

Contract ID: \_\_\_\_\_ County: Muscatine  
 Accounting ID: \_\_\_\_\_ Project No: SCI 1766020  
 Kind of Work: Sewer Separation Project Date Prepared: 04-27-2016  
 Contractor: Hagerty Earthworks, LLC

You are hereby authorized to make the following changes to the contract documents.

A – Description of changes to be made or extra work to be done:

Roadway Base Engineering Fabric. Due to soft soils, Engineering Fabric and over-excavation was used to stabilize the roadway base prior to placing Aggregate Subbase.

Aggregate Base Coarse. If over-excavation requires grade re-establishment, then the City of Muscatine provides the Contractor, at NO cost, access to HMA millings available at the City yard for the Contractor to load, haul and place.

B – Reason for change or extra work:

A procedure has been established for this Project wherein when unsuitable or unstable subgrade materials are encountered, the City staff will review and direct the Contractor to over-excavate, place engineering fabric and special backfill material (millings) to re-establish a sound subgrade back to bottom of designed subbase.

Contract Time Adjustment:  No Time Added  Time Added \_\_\_\_\_  To be determined later

When authorized, contractor agrees to perform the work outlined above in accordance with provisions of the contract documents.

Agreed: [Signature] 4-27-16 Recommended: [Signature] 4/22/16  
Contractor Date Project Engineer Date

Approved: NA Approved: NA  
District Staff Date Central Office (when Applicable) Date

Federal Participation  Approved  Not Eligible FHWA Concurrence: NA  
FHWA (if required) Date

**C-1 – Settlement for cost of work to be made as follows:**

Contract Modification No: 2016-8001

**Engineering Fabric:** Previously established and used in Phase 3A, the unit price has been re-confirmed by the Contractor to be acceptable at the rate of \$ 2.54 per square yard. The area measured for this Contract Modification is 166.67 SY. Additional areas are anticipated, and the quantity recommended for this Contract Modification is 1000.00 SY.

**Placing Millings:** Previously an adjusted quantity from the Contract Bid Item HH1 Aggregate Base Course, 8" was utilized and is still acceptable as a rate to the Contractor.

**C-2 – Justification for cost(s):**

The rates offered are the same as last years price and it was an acceptable then, thus it is the justification for accepting that prices once again this year.

**D – ITEMS INCLUDED IN CONTRACT**

Change No.	Line Item Number – Description	Unit Price .xxx	Quantity .xxx	Amount .xx
7000-01	HH Aggregate Base Coarse, 8"	\$ 12.000	200.000	\$ 2,400.00
7				
7				
7				
7				
7				
7				
7				
<b>TOTAL</b>				<b>\$ 2,400.00</b>

**E – ITEMS NOT INCLUDED IN CONTRACT**

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	Quantity .xxx	Amount .xx
8000-01	Engineering Fabric			\$ 2.540	1,000.000	\$ 2,540.00
8						
8						
8						
8						
8						
8						
8						
<b>TOTAL</b>						<b>\$ 2,540.00</b>

**CONTRACT MODIFICATION**

	Part	Non-Part
Non-Substantial	<input type="checkbox"/>	<input type="checkbox"/>
Substantial	<input type="checkbox"/>	<input type="checkbox"/>

No: 2016-8002

Concurrence Date \_\_\_\_\_

Contract ID: \_\_\_\_\_ County: Muscatine  
 Accounting ID: \_\_\_\_\_ Project No: SCI 1766020  
 Kind of Work: Sewer Separation Project Date Prepared: 04-27-2016  
 Contractor: Hagerty Earthworks, LLC

You are hereby authorized to make the following changes to the contract documents.

A – Description of changes to be made or extra work to be done:

Clean-Out Riser. A Clean-Out Riser versus a manhole was preferred by the City for the single house service connection involved, although the house in question has 2 service discharges that are grand-fathered in.

B – Reason for change or extra work:

Because some different materials were used to establish an acceptable house service connection, and some materials were deleted, a change in the Work has occurred.

Contract Time Adjustment:  No Time Added  Time Added \_\_\_\_\_  To be determined later

When authorized, contractor agrees to perform the work outlined above in accordance with provisions of the contract documents.

Agreed: [Signature] 4-27-16 Date Contractor  
 Recommended: [Signature] 4-27-16 Date Project Engineer

Approved: NA Date District Staff  
 Approved: NA Date Central Office (when Applicable)

Federal Participation  Approved  Not Eligible  
 FHWA Concurrence: NA Date EHWA (if required)

**C-1 – Settlement for cost of work to be made as follows:**

Contract Modification No: 2016-8002

Clean-Out Riser: The only new item not already identified in the Contract unit prices, was a Clean-Out Riser. The Contractor provided a furnish and install price of \$ 450.00. As the overall cost of all of the materials that have been switched does result in a Contract Credit, it was determined that this Clean-Out Riser cost was acceptable.

**C-2 -- Justification for cost(s):**

The traffic rated cover and the associated Clean-Out Riser piping were a fraction of the cost of a new manhole.

**D – ITEMS INCLUDED IN CONTRACT**

Change No.	Line Item Number – Description	Unit Price .xxx	Quantity .xxx	Amount .xx
7000-02A	6" PVC	\$ 93.000	50.000	\$ 4,650.00
7000-02B	12" A2000	\$ 76.000	53.000	\$ 4,028.00
7000-2C	Sanitary Sewer Manhole	\$ 5,950.000	-1.000	-\$ 5,950.00
7000-2D	8" Truss Pipe	\$ 95.000	-63.000	-\$ 5,985.00
7				
7				
7				
7				
<b>TOTAL</b>				<b>-\$ 3,257.00</b>

**E – ITEMS NOT INCLUDED IN CONTRACT**

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	Quantity .xxx	Amount .xx
8000-02	Clean-Out Riser			\$ 450.000	1.000	\$ 450.00
8						
8						
8						
8						
8						
8						
8						
<b>TOTAL</b>						<b>\$ 450.00</b>