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## MEMORANDUM

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TO: RANDY HILL, PUBLIC WORKS DIRECTOR  
FROM: JON LUTZ, CITY ENGINEER  
SUBJECT: MAD CREEK SEWER EXTENSION PROJECT  
CHANGE ORDER #1  
DATE: MARCH 4, 2013

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### INTRODUCTION:

The City of Muscatine has contracted with Cornerstone Excavating in the amount of \$994,414.75 for the Mad Creek Sewer Extension Project. New contract items are necessary to effectively quantify work for stream bank protection and stream crossings.

### BACKGROUND:

The construction plans include pay items for construction of stream crossings at 9 locations along the construction corridor in addition to plans for stream bank erosion control features. The stream crossing and stream bank designs were pay items based on lineal feet and square yards respectively. Their designs consisted of different combinations and configurations of the three change order items. It was determined that the manner in which they were built could be altered at some of the locations and built in more cost-effective ways. In order to do so, however, the components of their construction needed to be broken down into individual pay items. This change order accomplishes that goal. There will be deletions of the stream crossing and bank protection pay items associated with this change order.

Delete contract item, No. 5, STREAM CROSSING, TYPE 1

Delete contract item, No. 6, STREAM CROSSING, TYPE 2

Delete contract item, No. 20, BANK STABILIZATION

Add item to the contract, No. C1, REVETMENT STONE, CLASS E

Add item to the contract, No. C2, STRUCTURAL CONCRETE

Add item to the contract, No. C3, STRUCTURAL REINFORCING STEEL

### RECOMMENDATION/RATIONALE:

The city engineer recommends approving change order 1 for a net decrease of \$29,775.00 resulting in a contract total of \$964,639.75

### ADDITIONAL INFORMATION:

1. Change Order 1



# City of Muscatine

## Mad Creek Sewer Extension Project Change Order #1

Project: Mad Creek Sewer Extension Project  
Contractor: Cornerstone Excavating, Inc.

Account No.: 4294.4294.73100  
Date Prepared: March 4, 2013

### Description of changes to be made:

Delete contract item, No. 5, STREAM CROSSING, TYPE 1  
Delete contract item, No. 6, STREAM CROSSING, TYPE 2  
Delete contract item, No. 20, BANK STABILIZATION  
Add contract item, No. C1, REVETMENT STONE, CLASS E  
Add contract item, No. C2, STRUCTURAL CONCRETE  
Add contract item, No. C3, STRUCTURAL REINFORCING STEEL

### Reasons for change or extra work:

The construction plans include pay items for construction of stream crossings at 9 locations along the construction corridor in addition to plans for stream bank erosion control features. The stream crossing and stream bank designs were pay items based on lineal feet and square yards respectively. Their designs consisted of different combinations and configurations of the three change order items. It was determined that the manner in which they were built could be altered at some of the locations and built in more cost-effective ways. In order to do so, however, the components of their construction needed to be broken down into individual pay items. This change order accomplishes that goal. There will be deletions of the stream crossing and bank protection pay items associated with this change order.

### Settlement of the cost of materials is to be made as follows:

ITEMS TO BE DELETED FROM THE CONTRACT					
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM PRICE
5	STREAM CROSSING, TYPE 1	270	LF	\$235.00	\$63,450.00
6	STREAM CROSSING, TYPE 2	135	LF	\$310.00	\$41,850.00
20	BANK STABILIZATION	780	SY	\$55.00	\$42,900.00
TOTAL DELETIONS					\$148,200.00

ITEMS TO BE ADDED TO THE CONTRACT					
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	ITEM PRICE
C1	REVETMENT STONE, CLASS E	1500	TON	\$45.50	\$68,250.00
C2	STRUCTURAL CONCRETE	135	CY	\$345.00	\$46,575.00
C3	STRUCTURAL REINFORCING STEEL	3600	LB	\$1.00	\$3,600.00
TOTAL ADDITIONS					\$118,425.00

Net decrease = \$29,775.00

**Mad Creek Sewer Extension Project  
Change Order #1**

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City Engineer

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Date

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Public Works Director

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Date

**Receipt is acknowledged of this change and terms of settlement are hereby agreed to:**

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Contractor

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Date