CHANGE ORDER

Sheet No. 1 of 3

Change Order No. 7
County Jasper
Route 32nd Street
Project 32nd Street & Arizona Ave
OAJob No. 013-3170
City Job No. TSO605

To Emery Sapp and Sons, Inc. Contractor
You are hereby directed to make the following changes from the contract.

1. Description and Reason for Change (Attach Supplemental Sheets if Required)
   Remobilization and unit price increases due to new wage rates, increased equipment rates, and increased material costs. Addition of concrete channel lining to the scope of services.

2. Estimate of Cost of work Affected by this Change Order.

(A) EST. LINE NO.	(B) CONTRACT ITEM NO.	(C) ITEM DESCRIPTION	(D) UNITS PREVIOUSLY PROVIDED FOR	(E) UNITS TO BE CONSTRUCTED	(F) UNITS OVERRUN, UNDERRUN, CONTINGENT	(G) CONTRACT OR AGREED UNIT PRICE	(H) AMOUNT OF OVERRUN OR PLUS CONTINGENT	(I) AMOUNT OF UNDERRUN OR MINUS CONTINGENT
1	52	6" Thick Concrete Channel Lining (including removal of sycamore tree, bypass pumping, excavation to subgrade, grading and subgrade prep, replacement of topsoil, and seeding.)	0	408 SY	408 SY	$146.00	$59,568	
2	53	Temporary seeding (if project must be stabilized for extended period prior to permanent seeding)	0	1 AC	1 AC	$2,395	$2,395.00	
3	n/a	See attached tabulation of unit price increases due to change in bid conditions and 2.5 years passed since bid opening)	n/a	n/a	n/a	n/a	$50,560.35	
4	47	Manage SWPPP, Inspect and maintain erosion control measures.	10 (additional)	19 (additional)	9	$335.00	$3,015	
Total							$115,538.35	

*Indicates zero units paid by unit price, although some units may have been included as part of a lump sum for erosion control.

3. Cost Justification

- Equipment Remobilization
  - LS of $16,485.50
  - The original mobilization and bonds for this project was $49,858 for a total contract of $748,827.57. This equals 6.7% of the total contract value. Following this change order, there will be $527,070.85 remaining in work to be completed. The $16,485.50 for mobilization represents 3% of the work to be completed. This value seems reasonable given the fact that it is for mobilization only the clearing has already been completed.

- Temporary Seeding
    - The seed and mulch unit price in the original contract was $4,605. Temporary seeding is applied at roughly half the rate (lbs per acre). The unit price of $2,395 is a little over half of the original seed and mulch price.
- Unit Price increases
    - Unit price increases average 8-12% for the various line items. The original bid opening for the project was two and a half years ago. Over that time labor rates, material costs, and equipment costs have increased.
- 6" thick concrete channel lining
    - 6" thick concrete channel lining is typically around $50/SY
        - Le Compte Road in Springfield, MO had an average bid price of $51.84/SY and low bid price of $40.35/SY in October, 2013.
        - Similaryly, the contractor bid the equivalent of $46.85/SY for 6" concrete trail for this project (32nd and Arizona) in 2015.
    - Additional costs included in this unit price are:
        - Removal of large sycamore tree
        - Replacement of curb and gutter as necessary to construct channel adjacent to parking lot
        - Dewatering during construction
        - Additional equipment mobilization not accounted for during original bid
        - Excavation to subgrade, grading and subgrade prep assuming suitable soil.
        - Replacement of adjacent topsoil
    - Based on the unit price comparison on similar projects, the unit price of $146 seems high. However, the additional work included in the unit price for the concrete channel justifies some increase in price.

4. Settlement for Cost of the above Change to be made at Contract Unit Price Except as Noted:

1. CONTRACT AMOUNT		$748,827.57	The Terms of Settlement outlined above are hereby agreed to.
2. OVERRUN THIS ORDER		$115,538.35	_____ CONTRACTOR Emery Sapp & Sons, Inc.
3. OVERRUN PREVIOUS		$215,301.43	
4. TOTAL OVERRUN TO DATE		$330,839.78	by: _____ 10/3/17 Date
5. TOTAL		$1,079,667.35	

_____ 10/04/2017
SUBMITTED ENGINEER DATE

_____ _____
APPROVAL PROJECT MANAGER DATE

_____ _____
APPROVAL DIRECTOR OF PUBLIC WORKS DATE