



## MEMORANDUM

April 3, 2012

TO: Board of Mayor and Aldermen

FROM: Eric S. Stuckey, City Administrator *ES*  
David Parker, P.E., CIP Executive/City Engineer  
Paul Holzen, P.E., Director of Engineering  
Dan Allen, P.E., Assistant Director of Engineering  
Tom Ingram, P.E., Engineering Supervisor  
Jonathan Marston, P.E., Staff Engineer 2

SUBJECT: McEwen Drive Phase 3 – Change Order No. 7  
(COF Contract No. 2011-0003)

### Purpose

The purpose of this memorandum is to provide the Board of Mayor and Aldermen (BOMA) with information to consider approval of Change Order No. 7 for the McEwen Drive Phase 3 Project.

### Background

The BOMA approved the construction contract for the above referenced project with The Parkes Companies, Inc. on January 13, 2011, in the amount of \$7,199,484.05. The Notice to Proceed was issued on February 15, 2011, with a substantial completion date of February 15, 2012. To date, \$86,645.20 in change orders have been approved for this project, bringing the total contract amount to \$7,286,129.25.

There are several items, not originally bid with this project, that need to be addressed, as this project nears completion. These items are:

- Reconstruction of Liberty Park monument/sign at the corner of McEwen Drive & Turning Wheel Lane
- Installation of guardrail at the eastern end of the north bridge
- Removal and Reconstruction of ADA accessible sidewalk ramps
- Pavement striping modifications at the intersection of McEwen Drive & Carothers Parkway
- Installation of additional signage along McEwen Drive

During the course of construction, it was necessary for crews to remove the existing Liberty Park monument/sign that stood at the southeast corner of McEwen Drive & Turning Wheel Lane. However, removal and reconstruction of this monument was not anticipated with the original contract price.

Several questions were raised during the course of construction about the possible need for guardrail along the bridge wingwalls, which are located within the roadway median. After multiple discussions between City Staff, the contractor, and our construction engineering & inspection (CEI) consultant, staff tasked the original project designer, Sullivan Engineering, Inc. (SEI) to review the stated concerns and, if necessary, recommend a solution. SEI recommended guardrail in one location and striping modifications along a short stretch of the project. It is the opinions of staff that SEI's recommendations will help provide the safest possible roadway for the public.

During the preliminary walk-thru, it was noticed that several of the sidewalk ramps were placed at locations that would require stop sign/line placement at a significant distance from the intersection. This added distance could potentially cause a sight distance problem for side street motorists, due to the retaining wall on the north side of



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## MEMORANDUM

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the project. Therefore, several sidewalks ramps were removed and relocated to reduce the distance of the stop sign/line from the intersection.

Because each leg of the McEwen Drive & Carothers Parkway intersection was completed via different projects, some pavement striping modifications are necessary to utilize the full potential of the intersection. Specifically, one lane on eastbound McEwen Drive and one left turn lane from southbound Carothers Parkway onto eastbound McEwen Drive were striped to prevent their use by traffic. Until now, there was no need for these two lanes. However, with the opening of this four-lane section of McEwen Drive, it will soon be necessary to open these two "closed" lanes. Current bid items can be used to place new pavement markings. However, a change order is necessary to include a bid item for additional traffic control measures during the removal of the existing pavement striping in the active intersection.

Finally, after viewing the final traffic signage in place, it is clear that some additional signage will be necessary to safely guide motorists along McEwen Drive (i.e. Keep Right, Object Marker, and Pedestrian Supplemental Plaque.)

Change Order No. 7 is necessary to establish unit prices for this item, as it was not included in the original contract.

### **Financial Impact**

If approved, an INCREASE of \$70,495.02 will be added to the construction contract with The Parkes Companies, Inc. The total construction contract amount will be \$7,356,624.27 plus the approved project contingency of \$100,000.00. This proposed construction contract amount of \$7,356,624.27 represents a total increase of \$157,140.22 or 2.2% of the original contract value.

### **Recommendation**

Staff recommends approval of Change Order No. 7 with The Parkes Companies, Inc. for an INCREASE to the contract in the amount of \$70,495.02.

Supplemental Agreement and/or Request for Construction Change  
Change Order No. 07

City of Franklin  
Engineering Office  
109 Third Avenue South  
Franklin, TN, 37064

Contract No. PIN107520.00  
Project No. 94LPD1-S3-004  
Reference No. N/A  
County: Williamson

Whereas, we **The Parkes Companies, Inc.**, with **Fidelity and Deposit Company of Maryland**, as Surety, entered into a contract with the CITY OF FRANKLIN, on **January 13, 2011**, for the construction by said Contractor of the above designated contract; and *Whereas*, certain items of construction encountered are not covered by the original contract, we desire to submit the following additional items of construction to be performed by the Contractor and paid by the City at the prices scheduled therefore below:

The purpose of this Change Order is to add items to reconstruct the entrance sign at Liberty Park, additional work required to move location of handicap ramps as requested by The City of Franklin, addition of guardrail as required by plans revision, additional traffic control required for the added work in the Carothers & McEwen Drive intersection, and the additional signs requested by The City of Franklin.

It is agreed to add item 104-04.31 Additional work (Construct Liberty Park Sign utilizing all new limestone pieces). This change is a result of the existing sign being removed due to conflicts with construction of McEwen Drive Phase 3 and contract not addressing replacement of the sign.

It is also agreed to add item 104-04.30 Additional work (Removal of sidewalk, handicap ramps, curb and gutter for relocation of handicap ramps). During a preliminary walk through the City decided to move some of the handicap ramps to become more ADA friendly.

As per plans revision dated 1-31-2012 it is agreed to add items: 705-11.03 Single guardrail (type 2) – galvanized, 705-11.11 Tan Energy Absorb Terminal (NCHRP 350, TL 3) – Galvanized, and 705-10.25 Rounded End Element – Galvanized.

As the project neared completion a field review by the City has revealed a need for added work in the Carothers Pkwy. & McEwen Drive intersection. This work consist of milling existing pavement to remove existing pavement markings which will be preformed under existing traffic conditions requiring additional traffic control, so it is agreed to add item 712-99.92 Traffic Control (Work in the Carothers, McEwen intersection). During the field review it was discovered a need for additional guide signs on the project to safety guide the motoring public. And it is agreed to add items: 713-16.36 Signs (Ahead-Supplemental Plate, W16-9p, 24x12); 713-16.37 Signs (Object Marker, OM1-1, 18x18); 713-16.38 Signs (Keep right-symbol, R4-7, 24x30); 713-16.39 Signs (Keep right-symbol, R4-7a, 24x30); and move 2 pedestrian signs item 713-16.40.

Project Documents supporting this chance order are available upon request.

Item Number	Description	Unit	Original Quantities	Revised Quantities	Over + Under -	Contract Price	Net Amount Due Change
104-04.31	Additional Work(Construct Park Sign Utilizing all new limestone pieces)	LS	0	1	+1	\$42,989.10	\$42,989.10
104-04.30	Additional Work(Removal of sidewalk, Handicap ramps and Curb & gutter to reloc. Handicap ramps)	LS	0	1	+1	\$13,812.00	\$13,812.00
705-11.03	Single Guardrail (Type 2)	LF	0	150	+150	\$ 23.49	\$3,523.50
705-11.11	Tan Egy. Abs. Term.(NCHRP 350/TL3)	EA	0	2	+2	\$2,562.00	\$5,124.00
705-10.25	Rounded End Element	EA	0	2	+2	\$160.13	\$320.26
712-99.92	Traffic Control (work in Carothers & McEwen intersection)	LS	0	1	+1	\$1,053.26	\$1,053.26
713-16.36	Signs (Ahead-Supml. plate, W16-9p 24x12)	EA	0	2	+2	\$26.69	\$53.38
713-16.37	Signs (Object Marker OM1-1, 18x18)	EA	0	12	+12	\$138.80	\$1,665.60
713-16.38	Signs (Keep right-symbol, R4-7, 24x30)	EA	0	9	+9	\$149.48	\$1,345.32
713-16.39	Signs (Keep right-symbol, R4-7a, 24x30)	EA	0	3	+3	\$149.48	\$448.44
713-16.40	Signs (relocate pedestrian signs)	EA	0	2	+2	\$80.08	\$160.16
Contract Amount	\$7,199,484.05					Changes This Request	\$ 70,495.02
						Previous Changes	\$ 86,645.20
						Changes to Date	\$ 157,140.20

Now, Therefore, We, **The Parkes Companies, Inc.** Contractors, and **Fidelity and Deposit Company of Maryland**, Surety, hereby agree to this Supplemental Agreement consisting of the above mentioned items and prices, and agree that this Supplemental Agreement is hereby made a part of the original contract and will be performed by this Contractor in accordance with specifications thereof, and that the original contract remain in full force and effect, except insofar as specifically modified by this Supplemental Agreement.

Date Approved: \_\_\_\_\_

RECOMMENDED FOR APPROVAL BY GRESHAM, SMITH AND PARTNERS:

\_\_\_\_\_  
(GS&P)

\_\_\_\_\_  
CONTRACTOR

APPROVED BY:

\_\_\_\_\_  
(City of Franklin)

\_\_\_\_\_  
SURETY