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January 30, 2014

Mr. Ruben E. Delgado, P.E.  
Director of Engineering  
Collin County Department of Public Works  
825 N. McDonald, #160  
McKinney, Texas 75069

Re: FM 2514 (Parker Road) – From East of FM 2551 to East of FM 1378  
Engineering Services Agreement – Preliminary Planning  
Amendment No. 4

Dear Mr. Delgado:

We are pleased to continue our services in assisting in the Preliminary Planning for the FM 2514 (Parker Road) Improvements project. We have enclosed a copy of a memorandum prepared to describe the revisions for Amendment No. 4 to the Engineering Services Agreement for this project, for your review.

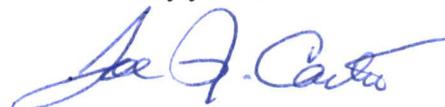
Amendment No. 4 covers the additional scope of work for the following:

1. Extend the limits of the project approximately 500 feet south
2. Perform an alignment and superelevation study through the curve
3. Add future widening topography and driveway for a development.
4. Prepare an Environmental Assessment document instead of a Categorical Exclusion document.

The Exhibit C spreadsheet for Amendment No. 4 shows the funds necessary to accomplish this additional scope of work to be \$41,950.

We are available to meet with you to discuss this proposed contract amendment at your convenience.

Sincerely yours,



Joe R. Carter, P.E.

Enclosures

cc: Ms. Tracy Homfeld, P.E.

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*Texas American Public Works Association 2012 Awardee*  
*Environmental Project of the Year \$2 Million – Fyke Road Lift Station Replacement*

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**TEXAS FIRM F526**

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**MEMORANDUM**

**To:** Mr. Ruben E. Delgado, P.E.  
**From:** Joe R. Carter, P.E.  
**Date:** January 30, 2014  
**Subject:** FM 2514 Preliminary Engineering (Amendment No. 4)

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We are pleased to submit the attached spreadsheets for Preliminary Engineering on the FM 2514 Extension from just east of Lavon Parkway to near Drain Drive. The first spreadsheet titled "Amendment No. 3" shows the original funds for each category to extend the project from just east of Lavon Parkway to 500 feet south of the curve at Butchers Block in St. Paul. The second spreadsheet titled "Amendment No. 4" shows the funds necessary to complete the current scope of the project.

**Amendment No. 4 (FM 2514 from Lavon Parkway to near Drain Drive)**

The following summarizes the allocations by Task:

- [1] Field Surveys – The additional amount includes 12 hours of field surveys on the new section in case the widening project for the Huffine's development occurs prior to final Schematic approval.
  - Task Cost above Amendment No. 3 = + \$1,860.00
- [2] Prepare Schematic – The additional amount includes work effort related to extending the a project as requested by TxDOT, submittal of an analysis comparing use of the existing centerline radius with and without superelevation and the TxDOT standard centerline radius for 45 mph and updating the topography and model with a future widening and driveway project for the Huffines development.
  - Task Cost above Amendment No. 3 = + \$11,600.00
- [3] Prepare Environmental Assessment – The additional amount includes the work effort required to prepare an Environmental Assessment document instead of a Categorical Exclusion document.
  - Task Cost above Amendment No. 3 = + \$26,000.00
- [4] Public Hearings & TxDOT Meetings – The additional amount includes additional meetings with developers and TxDOT.
  - Task Cost above Amendment No. 3 = + \$2,490.00

The total additional cost for the new section from just east of Lavon Parkway to near Drain Drive is \$37,050. The total cost for the Extension of FM 2514 from just east of Lavon Parkway to near Drain Drive is \$253,900. The total cost for the original 4 mile project was \$455,250 per Amendment No. 2. Amendment No. 3 extended the project for an additional cost of \$216,850. We are requesting Amendment No. 4 in the amount of \$41,950 to increase the overall lump sum amount for both projects from \$662,100 to \$704,050.

We are available to discuss this proposal with you at your convenience.

cc: Ms. Tracy Homfeld, P.E.

**COLLIN COUNTY  
F.M. 2514 (PARKER ROAD)**

**AMENDMENT NO. 4  
(Extend Project From Lavon Parkway near Drain Drive South Of Curve)  
TIME AND CHARGES**

Description of Task or Category	Approximate Hours to Complete Task or Category														Total Design Charges	Design Plus Expense
	Partner-In-Charge Project Manager		Sr. Environmental Scientist		Design Engineer/ Environ. Scientist		EIT / Sr CAD Tech.		CAD Technician/ Clerical		Survey Crew		Total Design Expense			
	Hours	per Hour \$190	Hours	per Hour \$155	Hours	per Hour \$130	Hours	per Hour \$105	Hours	per Hour \$85	Hours	per Hour \$155				
[1] Field Surveys - Survey Crew Only	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	100	\$15,500		
<b>SUBTOTAL:</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>100</b>	<b>\$15,500</b>	<b>\$0</b>	<b>\$15,500</b>
[2] Prepare Schematic	76	\$14,440	0	\$0	134	\$17,420	124	\$13,020	124	\$10,540	0	\$0	0	\$0		
<b>SUBTOTAL:</b>	<b>76</b>	<b>\$14,440</b>	<b>0</b>	<b>\$0</b>	<b>134</b>	<b>\$17,420</b>	<b>124</b>	<b>\$13,020</b>	<b>124</b>	<b>\$10,540</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>\$55,420</b>	<b>\$1,180</b>
[3] Prepare Environmental Document Categorical Exclusion	68	\$12,920	265	\$41,075	410	\$53,300	128	\$13,440	128	\$10,880						
<b>SUBTOTAL:</b>	<b>68</b>	<b>\$12,920</b>	<b>265</b>	<b>\$41,075</b>	<b>410</b>	<b>\$53,300</b>	<b>128</b>	<b>\$13,440</b>	<b>128</b>	<b>\$10,880</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>\$131,615</b>	<b>\$6,385</b>
[4] Public Hearing and TxDOT Meetings	52	\$9,880	100	\$15,500	140	\$18,200	22	\$2,310	18	\$1,530						
<b>SUBTOTAL:</b>	<b>52</b>	<b>\$9,880</b>	<b>100</b>	<b>\$15,500</b>	<b>140</b>	<b>\$18,200</b>	<b>22</b>	<b>\$2,310</b>	<b>18</b>	<b>\$1,530</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>\$47,420</b>	<b>\$1,280</b>
<b>TOTAL AMENDMENT NO. 4:</b>	<b>196</b>		<b>365</b>		<b>684</b>		<b>274</b>		<b>270</b>		<b>100</b>			<b>\$249,955</b>	<b>\$8,845</b>	<b>\$258,800</b>
														<b>Total Contract Amount Amendment No. 3:</b>		<b>\$216,850</b>
														<b>Total Added Amount Amendment No. 4:</b>		<b>\$41,950</b>
														<b>Total Contract Amount Amendment No. 4:</b>		<b>\$258,800</b>

Additional Services required to extend project south and to account for new TxDOT Agreement with FHWA that changes project classification to require Environmental Assessment document instead of Categorical Exclusion document.

Additional Services required to extend project further south at TxDOT request = 4 hrs Survey + 2 hrs Proj. Manager + 4 hrs. Des. Eng. + 10 hrs. CAD Techs

Additional Services required to analyze centerline/superelevation options at TxDOT request = 6 hrs Proj. Manager + 8 hrs. Des. Eng. + 22 hrs. CAD Techs

Additional Services required to update topo with widening/left turn for Huffines development = 8 hrs Survey + 8 hrs Proj. Manager + 12 hrs. Des. Eng. + 24 hrs. CAD Techs

Additional Services required to meet & coordinate with Huffines developer and K. Hovnanian

Additional Expenses for all the above items included under expense column

**COLLIN COUNTY  
F.M. 2514 (PARKER ROAD)**

**AMENDMENT NO. 3**

**(Extend Project From Lavon Parkway to 500 Ft South Of Curve)  
TIME AND CHARGES**

Description of Task or Category	Approximate Hours to Complete Task or Category														Total Design Charges	Expense	Design Plus Expense	
	Partner-In-Charge Project Manager		Sr. Environmental Scientist		Design Engineer/ Environ. Scientist		EIT / Sr CAD Tech.		CAD Technician/ Clerical		Survey Crew		Total Design Charges	Expense				Design Plus Expense
	Hours	per Hour \$190	Hours	per Hour \$155	Hours	per Hour \$130	Hours	per Hour \$105	Hours	per Hour \$85	Hours	per Hour \$155						
[1] Field Surveys - Survey Crew Only	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	88	\$13,640						
<b>SUBTOTAL:</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>88</b>	<b>\$13,640</b>					<b>\$13,640</b>	
[2] Prepare Schematic	60	\$11,400	0	\$0	110	\$14,300	96	\$10,080	96	\$8,160		\$0						
<b>SUBTOTAL:</b>	<b>60</b>	<b>\$11,400</b>	<b>0</b>	<b>\$0</b>	<b>110</b>	<b>\$14,300</b>	<b>96</b>	<b>\$10,080</b>	<b>96</b>	<b>\$8,160</b>	<b>0</b>	<b>\$0</b>					<b>\$45,000</b>	
[3] Prepare Environmental Document Categorical Exclusion	60	\$11,400	200	\$31,000	330	\$42,900	110	\$11,550	118	\$10,030		\$0						
<b>SUBTOTAL:</b>	<b>60</b>	<b>\$11,400</b>	<b>200</b>	<b>\$31,000</b>	<b>330</b>	<b>\$42,900</b>	<b>110</b>	<b>\$11,550</b>	<b>118</b>	<b>\$10,030</b>	<b>0</b>	<b>\$0</b>					<b>\$112,000</b>	
[4] Public Hearing and TxDOT Meetings	48	\$9,120	100	\$15,500	132	\$17,160	22	\$2,310	12	\$1,020		\$0						
<b>SUBTOTAL:</b>	<b>48</b>	<b>\$9,120</b>	<b>100</b>	<b>\$15,500</b>	<b>132</b>	<b>\$17,160</b>	<b>22</b>	<b>\$2,310</b>	<b>12</b>	<b>\$1,020</b>	<b>0</b>	<b>\$0</b>					<b>\$46,210</b>	
<b>TOTAL AMENDMENT NO. 3:</b>	<b>168</b>		<b>300</b>		<b>572</b>		<b>228</b>		<b>226</b>		<b>88</b>						<b>\$216,850</b>	
														<b>Total Contract Amount Amendment No. 2:</b>		<b>\$445,250</b>		
														<b>Total Contract Amount Amendment No. 2 + Amendment No. 3:</b>		<b>\$662,100</b>		
														<b>Deduct Amendment No. 1 Approved Contract Amount:</b>		<b>-\$577,900</b>		
														<b>Total Add Amendment No. 3:</b>		<b>\$84,200</b>		