

**SUMMARY**  
**CH2M HILL, INC.**  
**Collin County Outer Loop Segment 3: DNT to East of SH 289**  
**Supplemental Agreement #2**

<i>Collin County Outer Loop Segment 3 DNT to SH 289</i>	
<b>Total CH2M HILL Fee **</b>	<b>\$ 86,249.84</b>
<b>Total Brown &amp; Gay Fee **</b>	<b>\$ -</b>
<b>Total Lamb Star Fee **</b>	<b>\$ 19,420.00</b>
<b>Total Alliance Fee **</b>	<b>\$ -</b>
<b>Total CH2M HILL Team Fee **</b>	<b>\$105,669.84</b>

\*Excludes Incremental Services

\*\*Includes Direct Costs

**FEE PROPOSAL  
SUPPLEMENTAL AGREEMENT #2  
CH2M HILL, INC.  
Collin County Outer Loop Segment 3A: DNT to E. of SH 289**

Collin County Outer Loop to E. of SH 289	DNT	Project Manager	Senior Engineer	Project Engineer	EIT	Senior Designer	Clerical	Totals
Rate		\$195.18	\$170.39	\$133.21	\$108.46	\$132.53	\$70.88	
<b>Task 1 - Roadway Design</b>								
<b>A. ROADWAY DESIGN</b>								
EBFR Horizontal & Vertical Geometric Design		2	8	8	16			34
CR 51, CR 53, CR 1117 Horizontal & Vertical Geometric Design		2	4	8	8			22
Typical Section Sheets					2			2
Plan & Profile Sheets		1		6	40			47
Intersection Layout Sheets		1		4	6			11
Cross Section Sheets		1		4	24	8		37
<b>Task 1 Totals</b>		<b>7</b>	<b>12</b>	<b>30</b>	<b>96</b>	<b>8</b>	<b>0</b>	<b>153</b>
<b>Task 2 - Drainage Design</b>								
<b>A. HYDROLOGY</b>								
Drainage Area Computations and Discharge Calculations		2		16	4	4		26
<b>B. HYDRAULIC DESIGN</b>								
Culvert Hydraulic Analysis (3 Culverts)			2	8				10
<b>C. DOE BRANCH BRIDGE</b>								
Adjust the Corrected Effective (Base) HEC-RAS Model			1	12				13
Revise the Proposed HEC-RAS Model for New Alignment								
Adjust Proposed XS Locations			1	16				17
Re-Size the Proposed South FR Bridge			4	24				28
Mitigation Analysis to Minimize Impacts (Channel Realignment and Grading for Additional Conveyance)			8	36				44
Update/Revise HEC-RAS Floodway Models			1	6				7
Update Hydraulic Data Sheets			1		6			7
Update Hydraulic Report			4	16	12	8		40
<b>C. DRAINAGE STRUCTURE DESIGN</b>								
Culvert Layout Sheets (3 Culverts)		1	2	8	8	2		21
<b>D. OPEN CHANNEL DESIGN</b>								
Roadway Ditch Design/Modeling		1	4	8	4	2		19
<b>Task 2 Totals</b>		<b>4</b>	<b>28</b>	<b>150</b>	<b>34</b>	<b>16</b>	<b>0</b>	<b>232</b>
<b>Task 3 - Traffic Design</b>								
<b>A. RAILROAD</b>								
Exhibit A Preparation (Relocated At-Grade Crossing)		4		30	30			64
<b>Task 3 Totals</b>		<b>4</b>	<b>0</b>	<b>30</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>64</b>
<b>Task 4 - Bridge Design</b>								
<b>A. DOE BRANCH</b>								
Bridge Layouts		2	20			40		62
<b>Task 4 Totals</b>		<b>2</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>62</b>
<b>Task 5 - Project Management</b>								
<b>A. PROJECT MANAGEMENT</b>								

<i>Collin County Outer Loop to E. of SH 289</i>	<i>DNT</i>	Project Manager	Senior Engineer	Project Engineer	EIT	Senior Designer	Clerical	Totals
<b>Rate</b>	<b>\$195.18</b>	<b>\$170.39</b>	<b>\$133.21</b>	<b>\$108.46</b>	<b>\$132.53</b>	<b>\$70.88</b>		
Schedule, Progress Reports, and Invoices (2 months)	6		2			8		16
Progress Meetings (2)	4	4						8
Miscellaneous Coordination Meetings (2)	4	4						8
<b>Task 5 Totals</b>	<b>14</b>	<b>8</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>8</b>		<b>32</b>
<b>SA#1 Total Hours (Basic Services)</b>	<b>31</b>	<b>68</b>	<b>212</b>	<b>160</b>	<b>64</b>	<b>8</b>		<b>543</b>
<b>SA#1 Total Labor Costs (Basic Services)</b>	<b>\$6,051</b>	<b>\$11,587</b>	<b>\$28,241</b>	<b>\$17,354</b>	<b>\$8,482</b>	<b>\$567</b>		<b>\$72,280</b>
<b>SPECIAL SERVICES</b>								
<i>Task SS1 - Survey and Right-of-Way</i>								
<b>A. ROW DOCUMENTS</b>								
ROW Documents & Preparation								
REFER TO LAMB-STAR FEE FOR SUPPLEMENTAL AGREEMENT #1								
<b>Task SS1 Totals</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>
<i>Task SS5 - Public Involvement</i>								
<b>A. PUBLIC INVOLVEMENT ASSISTANCE</b>								
Preparation of MAPO Exhibit / Schematic								
	2		8	12				22
MAPO Meetings								
	4	18						22
Court Presentation, Public Meeting								
	8	16		8				32
<b>Task SS5 Totals</b>	<b>14</b>	<b>34</b>	<b>8</b>	<b>20</b>	<b>0</b>	<b>0</b>		<b>76</b>
<b>SA#1 Total Hours (Special Services)</b>	<b>14</b>	<b>34</b>	<b>8</b>	<b>20</b>	<b>0</b>	<b>0</b>		<b>76</b>
<b>SA#1 Total Labor Costs (Special Services)</b>	<b>\$2,733</b>	<b>\$5,793</b>	<b>\$1,066</b>	<b>\$2,169</b>	<b>\$0</b>	<b>\$0</b>		<b>\$11,761</b>
<b>Reimbursable Direct Expenses</b>								
					<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Total</b>
8.5" x 11" Copies					EA		\$0.10	\$0
11" x 17" Copies					EA	100	\$0.15	\$15
Mileage					MILE	450	\$0.56	\$252
White Mylar (11" x 17")					EA		\$1.50	\$0
Postage (Express Mail)					EA		\$3.00	\$0
<b>Total Reimbursable Direct Expenses</b>								<b>\$267</b>
<b>Total Markup on Subconsultants (10%)</b>								<b>\$1,942</b>
<b>Total CH2M HILL FEE (SUPPLEMENTAL AGREEMENT #1)</b>								<b>\$86,250</b>

