

SUMMARY
CH2M HILL, INC.
Collin County Outer Loop Segment 3: DNT to East of SH 289

<i>Collin County Outer Loop Segment 3 DNT to SH 289</i>	
Total CH2M HILL Fee **	472,238.42
Total Brown & Gay Fee **	75,752.50
Total Lamb Star Fee **	116,633.00
Total Alliance Fee **	\$47,702.50
Total CH2M HILL Team Fee * **	\$712,326.42

*Excludes Incremental Services

**Includes Direct Costs

Total Incremental Services (Not to Exceed)	\$38,400.00
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OVERALL CONTRACT AMOUNT	\$750,726.42
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**FEE PROPOSAL
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	
BASIC SERVICES								
Task 1 - Assembly and Review of Data								
Collection of Data, Reports, and Maps				8				8
Review of Data				8				8
Project Design Criteria Tabulation				4	4			8
Task 1 Totals		0	0	20	4	0	0	24
Task 2 - Roadway Design								
A. GENERAL								
Title Sheet		1			4	4		9
Index of Sheets		1			4	4		9
Project Layout Sheets		1			7	7		15
Typical Sections (Existing & Proposed)		3		8	16	8		35
Quantity Summary Sheets		2		8	12	12		34
B. TRAFFIC CONTROL								
Traffic Control General Notes and Narrative								
Traffic Control Advance Warning Layout								
Traffic Control Typical Sections								
Traffic Control Plan Sheets								
Assembly of Traffic Control Standards								
REFER TO BROWN & GAY FEE								
C. ROADWAY DESIGN								
Horizontal Alignment Data Sheet		1		2		4		7
Removal Plan Sheets		2		24	24	8		58
Roadway Plan & Profile Sheets		12	8	40	100	80		240
Cross Street Plan & Profile Sheets		4	4	16	20	30		74
Intersection Layout Sheets		4	4	12	20	20		60
Driveway Profiles/Details/Summary		2			8	16		26
Miscellaneous Roadway Details		2	4	8	16			30
Roadway Cross Sections		4		40	20			64
Assembly of Roadway Standards		3		4	6			13
D. BID PREPARATION (ROADWAY)								
Determination of Roadway Quantities		3		8	14	14		39
Roadway General Notes (60%, 95%, Final)		2		16				18
Roadway Cost Estimates (60%, 95%, Final)		3		3	6			12
Roadway Specs, Bid Form and Contract Docs (95% and Final)		2		16	16		16	50
E. QUALITY CONTROL (ROADWAY)								
Roadway QA/QC Plan Review		4	30	12				46
Task 2 Totals		56	50	217	293	207	16	839
Task 3 - Drainage Design								
A. HYDROLOGY								
Offsite Drainage Area Map		2		16	12			30
Storm Sewer Drainage Area Map		2		24	24	8		58
Runoff Computations and Sheet Tabulations		2			8	8		18
B. HYDRAULIC DESIGN								
Culvert Hydraulic Data Sheet		1	2	6		8		17
Inlet Computations and Sheet Tabulations		1			8	8		17
Storm Sewer Hydraulic Data and Sheet Tabulations		1			8	8		17

Collin County Outer Loop		DNT		Project	Senior	Project	EIT	Senior	Clerical	Totals
to E. of SH 289		Manager	Engineer	Engineer				Designer		
Rate		\$195.18	\$170.39	\$133.21	\$108.46	\$132.53	\$70.88			
	Doe Branch Hydraulic Data Sheet	1	4		4			8		17
	Doe Branch HEC-RAS Final Design	2	16	6				16		40
	Doe Branch HEC-RAS Floodway Final Design	1	8					16		25
	Doe Branch Scour Analysis	1	8					8		17
C.	DRAINAGE STRUCTURE DESIGN									
	Culvert Layouts (Non-Bridge Class)	4	16	24	24			20		88
	Storm Sewer Plan & Profile Sheets	4	12	24	48			32		120
	Miscellaneous Drainage Details	1		4	8					13
	Assembly of Drainage Standards	1		4	6			4		15
D.	OPEN CHANNEL DESIGN									
	Ditch / Channel Layout Sheets	2	6	8	16					32
	Doe Branch Channel Layout Sheets	2	8	10	16					36
E.	SW3P									
	SW3P Data Sheet									
	SW3P Layouts									
F.	BID PREPARATION (DRAINAGE)									
	Determination of Drainage Quantities	1		4	10			8		23
	Drainage General Notes (60%, 95%, Final)	2		16						18
	Drainage Cost Estimates (60%, 95%, Final)	3		3	6					12
	Drainage Specifications (95% and Final)	2		8						10
G.	QUALITY CONTROL (DRAINAGE)									
	Drainage QA/QC Plan Review	4	20	12						36
Task 3 Totals		40	100	169	198	152	0	0	0	659
Task 4 - Traffic Design										
A.	SIGNING & PAVEMENT MARKING									
	Signing & Pavement Marking Layout									
	Summary of Small Signs									
	Assembly of Sign and Marking Standards									
B.	TRAFFIC SIGNALS									
	Preston Road (SH 289) Signal Modification Layout	6	8	16	16					46
	Assembly of Signal Standards	2		4	4					10
C.	RAILROAD									
	Exhibit A Preparation (At-Grade Crossing)	8		32	32					72
	BNSF Coordination Meetings (3 Meetings)	8	8	8						24
	BNSF Crossing Layout Plan and General Notes	4	8	16	12			8		48
	Assembly of Railroad Standards	2		2	3			2		9
D.	BID PREPARATION (TRAFFIC)									
	Determination of Traffic Quantities	2		4	8			8		22
	Traffic General Notes (60%, 95%, Final)	2		16						18
	Traffic Cost Estimates (30%, 60%, 95%, Final)	2		8	24					34
	Traffic Specifications (95% and Final)	2		8						10
E.	QUALITY CONTROL (TRAFFIC)									
	Traffic QA/QC Plan Review	12	20	12						44
Task 4 Totals		50	44	126	99	18	0	0	0	337
Task 5 - Bridge Design										
A.	DOE BRANCH									
	Bridge Layouts	6	16	48	32			48		150
	Summary of Quantities	1	4	4	16					25
	Foundation Design	1		4	12					17
	Beam Design	1	8	24	24					57
	Foundation Plan	1		24	12			32		69
	Abutment Details	1	2	16	16			16		51
	Bent Details	3	3	24	12			32		74
	Framing Plan	2	12	24	24			24		86

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Rate		\$195.18	\$170.39	\$133.21	\$108.46	\$132.53	\$70.88	
Span Details	2	12	24	16	16	8		70
Prepare Bridge Calculations	1	8	20	20	20			48
Bridge Cost Estimates	1	8	8	8				17
Bridge Specs, Bid Form, and Contract Docs	1	8	8	8				17
B. BID PREPARATION (BRIDGE)								
Bridge Cost Estimates (30%, 60%, 95%, Final)	2		16	16				34
Bridge Specifications (95% and Final)	2		8					10
C. QUALITY CONTROL (BRIDGE)								
Bridge QA/QC Plan Review	4	24						28
Task 5 Totals	28	97	252	180	188	8		753
Task 6 - Project Management								
A. PROJECT MANAGEMENT								
Schedule, Progress Reports, and Invoices (12 months)	24					60		84
Progress Meetings (4)	12	12	12			6		42
Miscellaneous Coordination Meetings (12)	36	12	36					84
Task 6 Totals	72	24	48	0	0	66		210
Total Hours (Basic Services)	246	315	832	774	565	90		2,822
Total Labor Costs (Basic Services)	\$48,014	\$53,673	\$110,831	\$83,948	\$74,879	\$6,379		\$377,725
SPECIAL SERVICES								
Task SS1 - Survey and Right-of-Way								
A. ROW DOCUMENTS								
ROW Documents & Preparation	REFER TO LAMB-STAR FEE							
Task SS1 Totals	0	0	0	0	0	0		0
Task SS2 - Geotechnical								
A. GEOTECHNICAL INVESTIGATION								
Geotechnical Investigation	REFER TO ALLIANCE GEOTECHNICAL FEE							
B. RIGHT OF ENTRY								
Right of Entry Coordination	8		16			20		44
Task SS2 Totals	8	0	16	0	0	20		44
Task SS3 - Ultimate Design Concept								
A. ULTIMATE DESIGN CONCEPT								
Dallas North Tollway at Outer Loop Ultimate Geometric Concept Design	8	40	20	40				108
Preston Road (SH 289) at Outer Loop Ultimate Geometric Concept Design	8	40	20	40				108
CR 88 at Outer Loop EBFR Ultimate Geometric Concept Design	4	10	6	10				30
Coordination with NTTA and TxDOT	8	4	4					16
Modification of Design Schematic			20	20				40
Task SS3 Totals	28	94	70	110	0	0		302
Task SS4 - Utility Coordination								
A. UTILITY COORDINATION								
Utility Coordination	16	20	40	40				116
Utility Agreements	4	8	16					28
Task SS4 Totals	20	28	56	40	0	0		144

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Rate		\$195.18	\$170.39	\$133.21	\$108.46	\$132.53	\$70.88	
Total Hours (Special Services)		56	122	142	150	0	20	490
Total Labor Costs (Special Services)		\$10,930	\$20,788	\$18,916	\$16,269	\$0	\$1,418	\$68,320
INCREMENTAL SERVICES								
<i>Task IS1 - Subsurface Utility Engineering</i>								
A. SUE Subsurface Utility Engineering		REFER TO SCOPE OF SERVICES - IS1, SUBSURFACE UTILITY ENGINEERING						
Task IS1 Total Cost (Not To Exceed)								\$38,400.00
Total Costs (Incremental Services)								\$38,400
Reimbursable Direct Expenses					Unit	Quantity	Rate	Total
8.5" x 11" Copies					EA	1,000	\$0.10	\$100
11" x 17" Copies					EA	2,500	\$0.15	\$375
Mileage					MILE	1,500	\$0.56	\$840
White Mylar (11" x 17")					EA	500	\$1.50	\$750
Postage (Express Mail)					EA	40	\$3.00	\$120
Total Reimbursable Direct Expenses								\$2,185
Total Markup on Subconsultants (10%)								\$24,009
Total CH2M HILL FEE								\$472,238