

Preliminary Engineering Study
US 75 at Collin County Outer Loop Interchange
Updated September 3, 2013

	Project Manager \$185	Project Engineer \$160	Traffic Engineer \$150	Environmental Planner \$122	Engineer II \$93	EIT \$76	Clerical \$88	Total
I. Project Management								
A. General Mgmt/Administration								
1. General project management and administration (6 months)	30						12	42
B. Prepare and update schedules								
1. Prepare and update project schedule	3	12						15
C. Attend up to (3) Meetings								
1. Preparation	9	12						21
2. Facilitate/Attend	12	12			8	4		36
3. Prepare Meeting Notes	3	6						9
D. Quality Control/Quality Assurance								
1. QA/QC	15	20						35
II. Data Assembly and Review								
A. Obtain current aerials and GIS layers from the County								
1. Review current aerials, County GIS layers, and incorporate into base mapping		4		4	6	10		24
2. Prepare updated Environmental Constraints Map	2	2		20				24
B. Obtain Approved TxDOT Schematic files and incorporate into base mapping								
1. Review TxDOT files and incorporate into compiled DTM	4	16			20	15		55
III. Alignment Studies								
A. Develop Design Criteria	2	4			4			10
B. Develop Up to two (2) conceptual interchange alternatives	20	50			160	125		355
C. Develop Alternative Analysis Matrix	2	8		5	16	12		43
D. Develop Cost Estimate of Technically Preferred Alternative	4				8	16		28
E. Develop LOS Analysis and Memo for the Technically Preferred Alternative	10	5	60		10	15		100
Total Hours	116	151	60	29	232	197	12	797
Labor	\$21,460.00	\$24,160.00	\$9,000.00	\$3,538.00	\$21,576.00	\$14,972.00	\$1,056.00	\$95,762.00

Total Labor	\$95,762.00
Expenses	\$4,219.00
TOTAL FEE	\$99,981.00

Expenses	Quantity	Unit	Unit Cost	Total
Travel	600	mi	\$0.565	\$339.00
8.5 x11 (B/W)	500	EA	\$0.04	\$20.00
11x17 (B/W)	500	EA	\$0.09	\$45.00
8.5x11 (Color)	500	EA	\$0.38	\$190.00
11x17 (Color)	500	EA	\$0.75	\$375.00
Color Plotting	2500	SF	\$1.30	\$3,250.00
Total Expenses				\$4,219.00

Notes:

- 1) Does not include X-Sections
- 2) Base mapping combined from existing TxDOT, NCTCOG, and Collin County data
- 3) NCTCOG to provide traffic volumes
- 4) Does not provide profiles
- 5) Does not provide drainage analysis
- 6) Does not provide Traffic Control Phasing Plan