Collin County Outer Loop Segments 2 and 4 Exhibit B

Professional Services Fee

Provider

		Burns	& McDonnell	Kir	nley-Horn	Bar	tlett & West	La	amb-Star	7	erracon		Rios	Gr	and Total
	Task Description	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
1.0.0	Objective 1: Data Collection and Route Studies	945	\$ 214,770.51	194	\$ 39,495.00	0	\$ -	0	-	0	\$ -	872	\$ 96,380.24	2,011	\$ 350,645.75
2.0.0	Objective 2: Conceptual and Geometric Schematic Design	8,942	\$ 2,189,116.04	0	\$	0	\$ -	0	\$ -	0	\$ -	180	\$ 33,241.80	9,122	\$ 2,222,357.84
3.0.0	Objective 3: Traffic Projections and Traffic and Safety Analysis	698	\$ 178,052.68	755	\$ 198,105.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -	1,453	\$ 376,157.68
4.0.0	Objective 4: Hydrologic and Hydraulic Analysis	1,998	\$ 448,647.48	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	1,998	\$ 448,647.48
5.0.0	Objective 5: Environmental Studies	930	\$ 206,209.20	0	\$	229	\$ 33,285.79	0	\$ -	0	\$ -	123	\$ 23,986.41	1,282	\$ 263,481.40
6.0.0	Objective 6: Public Involvement and Stakeholder Outreach	4,092	\$ 922,963.85	242	\$ 72,570.00	0	\$ -	0	\$ -	0	\$ -	170	\$ 31,159.10	4,504	\$ 1,026,692.95
7.0.0	Objective 7: Project Management	1,906	\$ 530,493.92	60	\$ 14,880.00	36	\$ 4,633.44	174	\$ 33,043.62	0	\$ -	0	\$ -	2,176	\$ 583,050.98
8.0.0	Special Services 1: Survey, Geotech, Right-of-Way and Utility Mapping	0	\$ -	0	\$	0	\$ -	10,725	\$ 1,725,719.35	192	\$ 29,210.26	0	\$ -	10,917	\$ 1,754,929.61
9.0.0	Special Services 2: Plans, Specifications, and Estimates Development	0	\$ -	0	\$	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -
	Expenses		\$ 346,760.26		\$ 201.00		\$ 2,324.20		\$ 283,627.20		\$0.00		\$441,600.00		\$ 1,074,512.66
	Provider Total	19,511	\$ 5,037,013.94	1,251	\$ 325,251.00	265	\$ 40,243.43	10,899	\$ 2,042,390.17	192	\$ 29,210.26	1,345	\$ 626,367.55	33,463	\$ 8,100,476.35

			Droinet	Deputy	Quality	Admin/	Engineer	Engineer	Engineer	Engineer	Traffic	Traffic	Engineer In	Engineer	Engineer	Env. Project	Env. Dlanner	Env Dlanner	Visual 2D	Vigualization	Public	Public	Public	TOTAL	TOTAL
	Task Description	Principal	Project Manager	Project Manager	Quality Manager	Admin/ Clerical	Engineer (Senior)	Bridge (Senior)	Engineer (Project)	Engineer (Design)	Engineer (Senior)	Engineer (Junior)	Engineer-In- Training	Technician (Senior)	Engineer Technician	Manager	Env. Planner IV	III	Visual. 3D Manager	Visualization I 3D Modeler	Officer (Senior)	Involvement Specialist (Senior)	Involvement Officer	HOURS (Unadjusted)	COSTS
		Andrew	Josh	Caren	Byron	Kim / Taylor	David W./GK	Ryan	Kristen/Haley	Kyle	Tim	Bailee	Jillian/Charl es	Ashley/Terry	CAD contingent	Shari / Tom	Brandy/Mike D	Sarah H/Shannon	Jesse Teas		Chelsey	Madeline	Taliyah		
	·	\$ 342.70	\$ 338.15	\$ 312.17	\$ 291.74	\$ 128.42		\$ 317.15	5 \$ 256.84		\$ 277.00	\$ 217.67		\$ 242.45	\$ 158.63	\$ 317.23	\$ 212.91	\$ 169.44	\$ 266.69	\$ 203.13	\$ 302.16	\$ 226.62	\$ 179.90	415	4044 === 0
0	jective 1: Data Collection and Route Studies Task 1- Data Collection	0	29	21	0	0	146	0	228	146	0	0	322 60	12	6	0	0	0	0	0	0	0	0	945 156	\$214,770.5 \$36,545.4
.1.1	Collect files and data from previous CCOL study and current crossing/abutting projects	- ·	16	2	U	U	10	U	10	U	U	0	40	12	U	0	0	U	- 0	0	U	U	0	78	\$17.713.9
1.1.2	Collect municipality and stakeholder planning documents		8	1			8		8				20											45	\$10,502.4
.1.3	Collect and organize NCTCOG aerial imagery and lidar		1				2							12	6									21	\$4,782.6
1.1.5	Collect additional field data Task 2 - Design Criteria and Typical Section Development	0	22	10	0	0	22	0	68	36	0	0	12		0	0	0	0	0	0	0	0	0	12 170	\$3,546.52 \$44,119.0
.2.1	Develop ultimate freeway typical section bevelopment Develop ultimate freeway typical sections incl. future technologies		8	4	0	0	4	0	16	20	0	0	12	0	U		U	0	"	"	U	U	- 0	52	\$13,573.4
.2.2	Develop interim design typical sections		2	2			2		8	16														30	\$7,413.5
.2.3	Develop Roadway Design Criteria Worksheet		4	2			8		20				12											46	\$11,305.1
.2.4	Typical Section Technical Memorandum Alignment Refinement and Validation Study	0	8 13	2	0	0	100	0	24 138	110	0	0	250	0	0	0	0	0	0	0	0	0	0	42 619	\$11,826.8 \$134,106 .
.2.7	Develop CAD files of existing features (floodplains, roadways, streams, structures, etc.)	- ·	13		U	U	12	U	30	30	U	0	50	U	U	U	U	U	"	0	U	U		122	\$25,463.2
.2.8	Map existing property boundaries utilizing Collin CAD GIS data		1						8				20											29	\$5,490.0
.2.9	Alignment Refinement and Roll Plot Exhibit		8	4			80		80	60			60											292	\$70,154.6
.2.10	Develop Preliminary Ramping Line Diagram Exhibits spective 2: Conceptual and Geometric Schematic Design	0	309	121	44	0	1, 590	1,228	20 1,586	20 1,318	0	0	120 2.038	708	0	0	0	0	0	0	0	0	0	176 8,942	\$32,998.0 \$2,189,116
ľ	Task 1- 30% Conceptual Schematic Development (Ultimate Design)	0	82	40	12	0	570	80	572	550	0	0	730	100	0	0	0	0	0	0	0	0	0	2,736	\$638,977
.1.1	Border Sheet Creation						4		4	60				12				·						80	\$18,134.
2.1.2	Schematic Roll Plot Development		20	16			24		80	100			280	80										600	\$123,779
2.1.3 2.1.4	Typical Sections (Existing and Proposed) Main lane Geometric Design (Horizontal & Vertical)	<u> </u>	12	10			80		120	30 60			30	0					1					94 299	\$21,561.5 \$75,861.5
2.1.5	Frontage Road Geometric Design (Horizontal & Vertical)	-	2	1			60		60	60			60	0					 	1				243	\$56,219.
2.1.6	Ramp Geometric Design (Horizontal & Vertical)		2	1			80		60	60			40											243	\$58,955.
2.1.7	Cross Street/Interchange Design (Horizontal & Vertical)		8	1			80		80	120			180											469	\$100,832
2.1.8 2.1.9	Multilevel US 380 Interchange Design (including US 380 refinements)		10	4			180 12	40 40	100	40			40 20							-				414 74	\$110,376. \$19,959.
2.1.10	Preliminary Bridge Configurations Preliminary Control-of-Access		2	+			6	40	20				40						-	1				68	\$13,757.3
2.1.3	Prepare and Submit 30% Deliverables including QA/QC		16	4	12		40		40	20			20											152	\$39,539.
	Task 2 - 60% Geometric Schematic Development (Ultimate Design)	0	136	52	16	0	634	804	620	404	0	0	798	414	0	0	0	0	0	0	0	0	0	3,878	\$977,711
2.2.1 2.2.2	Typical Section Refinement (Existing and Proposed) Main lane Design Refinement (Horizontal, Vertical, and Superelevation)	-	10 15	4 8			60		60	60			30 40	30					1					74 273	\$16,238. \$66,977.
2.2.3	Frontage Road Design Refinement (Horizontal & Vertical)		10	4			60		80	60			40	30										254	\$61,900
2.2.4	Ramp Design Refinement (Horizontal & Vertical)		10	4			80		80	80			100											354	\$81,368
2.2.5	Cross Street/Interchange Design Refinement (Horizontal & Vertical)		15	4			80	200	100	100			200											499	\$108,020
2.2.6 2.2.7	Multilevel US 380 Interchange Design Refinement (including US 380 refinements) Preliminary Bridge Configurations	<u> </u>	40	20			240 8	320 240	160				160						 	-				940 270	\$257,123 \$83,719
2.2.8	Overhead Guide Sign Layouts		2				12	240	0	60			60						 					134	\$26,498
2.2.9	Control-of-Access Refinements		2				4		8				20								_			34	\$6,994.
.2.10	3D Roadway Corridor Modeling		10	2			40	240	80				80	300										752	\$197,458
.2.11 .2.12	Prepare Cross Sections from Corridor Model Prepare and Submit 60% Deliverables including QA/QC	 	2 16	4	16		40	4	40	20			40 20	80 4										130 164	\$28,460 \$42,945
.2. 12	Task 3 - Final Geometric Schematic Development (Ultimate Design)	0	91	29	16	0	386	344	394	364	0	0	510	194	0	0	0	0	0	0	0	0	0	2,328	\$572,42
.3.1	Typical Section Refinement (Existing and Proposed)		2	1			2		2	4			4											15	\$3,573.
3.2	Main lane Design Refinement (Horizontal, Vertical, and Superelevation)		10	4			40		40	40			40	20										194	\$46,299
3.3 3.4	Frontage Road Design Refinement (Horizontal & Vertical) Ramp Design Refinement (Horizontal & Vertical)		5 10	2			20 50		20 80	20 80			30 60											97 284	\$22,274 \$66,425
3.5	Cross Street/Interchange Design Refinement (Horizontal & Vertical)		8	2			80		80	100			160						 					430	\$93,703
.3.6	Multilevel US 380 Interchange Design Refinement (including US 380 refinements)		10	4			120	140	80	80			40											474	\$128,143
.3.7	Preliminary Bridge Configurations		4	2			4	120	4															134	\$42,228
.3.8 .3.9	Overhead Guide Sign Layout Refinements Control-of-Access Refinements	-	4	+			6 2		4	20			40 16						1	-				68 26	\$12,96 ² \$5,441
.3.10	3D Roadway Corridor Modeling Updates		10	2			8	80	40				40	120										300	\$77,272
.3.11	Prepare Cross Sections from Corridor Model		2				4		4				40	50										100	\$21,187
.3.13	Prepare and Submit Final Deliverables including QA/QC		24	8	16		50	4	40	20			40	4										206	\$52,912
0	pjective 3: Traffic Projections and Traffic and Safety Analysis Task 1- Travel Demand Model Updates	0	49 7	8 0	8	0	0	0	0	0	318 0	315 0	0	0	0	0	0	0	0	0	0	0	0	698 7	\$178,05 \$2,367
.1.1	Potential Future Consideration Build Pairings	U	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	5	\$1,690
3.1.2	Establishment of "No-Build" Conditions for a basis of comparison		2																					2	\$676.3
	Task 2 - Develop Traffic Projections	0	6	0	8	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	22	\$6,578.8
3.2.1	Traffic Projections for Air and Noise Analysis		4		4						4								1					12	\$3,627.
.2.2	Traffic Projections for Microsimulation Analysis	l	2	1	4	L	1	l			4	l	L			1	l							10	\$2,95

	Task Description	Principal	Project Manager	Deputy Project Manager	Quality Manager	Admin/ Clerical	Engineer (Senior)	Engineer Bridge (Senior)	Engineer (Project)	Engineer (Design)	Traffic Engineer (Senior)	Traffic Engineer (Junior)	Engineer-In- Training	(Senior)	Engineer Technician	Env. Project Manager	Env. Planner	III		Visualization 3D Modeler	Public Involvement Officer (Senior)	Public Involvement Specialist (Senior)	Public Involvement Officer	TOTAL HOURS (Unadjusted)	TOTAL COSTS
		Andrew	Josh	Caren	Byron	Kim / Taylor	David W./GK	Ryan	Kristen/Haley	Kyle	Tim	Bailee	Jillian/Charl es	Ashley/Terry	CAD contingent	Shari / Tom	Brandy/Mike D	Sarah H/Shannon	Jesse Teas		Chelsey	Madeline	Taliyah		
	Hourly Rates:	\$ 342.70	\$ 338.15	\$ 312.17	\$ 291.74	\$ 128.42	2 \$ 291.64	\$ 317.15	5 \$ 256.84	\$ 217.18	\$ 277.00	\$ 217.67	\$ 154.86	\$ 242.45		\$ 317.23	\$ 212.91		\$ 266.69	\$ 203.13	\$ 302.16	\$ 226.62	\$ 179.90		
3.3.0	Task 3 - Microsimulation	0	36	8	0	0	0	0	0	0	310	315	0	0	0	0	0	0	0	0	0	0	0	669	\$169,106.81
3.3.1	Interchange and Ramping Capacity Analysis		4	2							25	45												76	\$18,697.09
3.3.2	Safety Assessments		4	2							35	25												66	\$17,113.69
3.3.3	Ultimate Configuration Concepting		6	2							80	45												133	\$34,608.39
3.3.4	Critical Intersection / Connection Assessments		16	2							95	150												263	\$65,000.24
3.3.5	Traffic and Safety Reporting		6								75	50												131	\$33,687.40
0.0	Objective 4: Hydrologic and Hydraulic Analysis	0	26	10	32	16	460	144	404	0	0	0	654	6	246	0	0	0	0	0	0	0	0	1,998	\$448,647.48
4.1.0	Task 1- Minor Drainage Analysis (30% Schematic plan Layout only up to 23 Cross Drainage Structures)	0	14	6	20	4	312	0	260	0	0	0	418	0	170	0	0	0	0	0	0	0	0	1,204	\$262,424.26
4.1.1.1	3				8		30		30				60		90									218	\$42,356.62
4.1.1.2									1	1			L				1							0	\$0.00
4.1.1.2							30		1				30			1								60	\$13,395.00
4.1.1.2				1	1		30		40	+			40			1			1					110	\$25,217.20
4.1.1.2	8						30		30				40											100	\$22,648.80
4.1.1.2 4.1.1.2					1		40 40		30	1	-	-	40	+	80	+	+		+			+ -		110 190	\$25,565.20 \$38,255.60
4.1.1.2		-	3		4		40	-	30		-	-	40		00				_					190	\$2.181.41
4.1.1.3					+			1	1		+	1			+									0	\$0.00
4.1.1.3							30	+	40				40											110	\$25,217.20
4.1.1.3							30	1	40				40											110	\$25,217.20
4.1.1.3			3				12	1	20				40											75	\$15.845.33
4.1.1.3					4		·-		 				<u> </u>											4	\$1,166.96
4.1.1.4					· ·		40						48											88	\$19.098.88
4.1.1.5			2		4																			6	\$1,843.26
4.1.1.6			6	6		4																		16	\$4,415.60
4.2.0	Task 2 - Major Drainage Analysis (30% Schematic plan layout only up to 8 FEMA Zone A Structures)	0	12	4	12	12	148	144	144	0	0	0	236	6	76	0	0	0	0	0	0	0	0	794	\$186,223.22
4.2.1.1					2		4	16	8				8											38	\$10,118.04
4.2.1.2							16	24	8				36		36									120	\$25,618.20
4.2.1.3	<u></u>																							0	\$0.00
4.2.1.3	7						20	60	40				40											160	\$41,329.80
4.2.1.3	, , , , ,						12	24					24											60	\$14,827.92
4.2.1.3					.		10	20					20											50	\$12,356.60
4.2.1.3			3		4			-																7	\$2,181.41
4.2.1.4	1								40				40											0 110	\$0.00
4.2.1.4 4.2.1.4							30	-	40				40											110	\$25,217.20 \$0.00
4.2.1.4					 		36		48	+	 		48		 	+								132	\$30,260.64
4.2.1.4			3		4		30		40	+	 	<u> </u>	+0	2	 	+								9	\$2,666.31
4.2.1.5		—	_ <u> </u>		- -	8	20			1			20		40	 								88	\$16,302.56
4.2.1.6			2		2		20						20	4	70	1								8	\$2,229.58
4.2.1.7			4	4	-	4								7										12	\$3.114.96
0.0	Objective 5: Environmental Studies	0	56	64	0	20	52	0	0	40	0	0	0	0	0	60	316	322						930	\$206,209.20
5.1.0	Task 1- Purpose and Need (hours for review only, NCTCOG to perform effort)	0	16	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0						24	\$7.907.76
5.1.2	Develop Initial Purpose & Need (hours for review only, NCTCOG to perform effort)		16	8												0	0	0						24	\$7,907.76
5.2.0	Task 2 - Desktop and Field Studies	0	24	40	0	20	40	0	0	40	0	0	0	0	0	60	316	322						862	\$184,396.64
5.2.1	Data Collection - removed as data collectioin will be done and shared w/NCTCOG under BMcD-led tasks															0	0	0						0	\$0.00
5.2.2	Rights-of-Entry (environmental field investigations)		16	24		20										8	16	40						124	\$28,192.88
5.2.3	Communities and Social Setting															16		16						32	\$7,786.72
5.2.4	Land Use															0	0	0						0	\$0.00
5.2.5	Archeological Resources															2	200	140						342	\$66,938.06
5.2.6	Historical Resources									1						2	100	120						222	\$42,258.26
5.2.7	Water Resources									ļ						0	0	0						0	\$0.00
5.2.8	Traffic Noise		8	16	1		40		1	40				-	-	0	0	0	1					104	\$28,052.72
5.2.9	Vegetation and Protected Species				-				1	1			<u> </u>			0	0	0						0	\$0.00
5.2.10	Regulated/Hazardous Materials	I														32		<u> </u>						38	\$11,168.00

	Task Description	Principal	Project Manager	Deputy Project Manager	Quality Manager	Admin/ Clerical	Engineer (Senior)	Engineer Bridge (Senior)	Engineer (Project)	Engineer (Design)	Traffic Engineer (Senior)	Traffic Engineer (Junior)	Engineer-In- Training	Engineer Technician (Senior)	Engineer Technician	Env. Project Manager	Env. Planner IV	Env Planne III		Visualization 3D Modeler	Public Involvement Officer (Senior)	Public Involvement Specialist (Senior)	Public Involvement Officer	TOTAL HOURS (Unadjusted)	TOTAL COSTS
		Andrew		Caren	Byron		David W./GK		Kristen/Haley	Kyle	Tim	Bailee	Jillian/Charl es	Ashley/Terry	CAD contingent	Shari / Tom	U	H/Shannor			Chelsey	Madeline	Taliyah		
		\$ 342.7	0 \$ 338.15	\$ 312.17	\$ 291.7	4 \$ 128.42	\$ 291.64	\$ 317.15	\$ 256.84	\$ 217.18	\$ 277.00	\$ 217.67	\$ 154.86	\$ 242.45	\$ 158.63	\$ 317.23	\$ 212.91	\$ 169.4	4 \$ 266.69	\$ 203.13	\$ 302.16	\$ 226.62	\$ 179.90		
5.3.0	Task 3 - Draft Environmental Document	0	16	16	0	0	12	0	0	0	0	0	0	0	0	0	0	0						44	\$13,904.80
5.3.1	Introduction and Project History	<u> </u>	8	8												0	0	0						16	\$5,202.56
5.3.2	Purpose and Need for the Proposed Action	ļ														0	0	0						0	\$0.00
5.3.3	Alternatives	ļ	8	8			12									0	0	0	_					28	\$8,702.24
5.3.4	Environmental Resources, Effects, and Mitigation	-														0	0	0	+					0	\$0.00
5.3.5	Draft Environmental Document V1 & V2	 					<u> </u>									0	0	0	+					0	\$0.00 \$0.00
540	Tools 4. Final Environmental Dominant	0	0	0	0	_	۸ .	•	0	0	0	0	1	0	•		0	0	_					0	\$0.00
5.4.0	Task 4 - Final Environmental Document	ļ <u>"</u>	U	U	U	0	0	0	U	U	U	U	0	U	U	0	0	0						0	\$0.00
5.4.1	Final Environmental Document V1 & V2	-														U	0	U						0	
,	Objective 6: Public Involvement and Stakeholder Outreach	0	164	130	12	1	174	0	83	23	15	15	118	0	0	209	60	0	250	375	126	847	1,483	4,092	\$0.00 \$922,963.85
6.1.0	Objective 6: Public Involvement and Stakeholder Outreach	1	0	130	0	0	0	0	0	0	13	0	0	0	0	209	0	0	230	0	6	25	41	76	\$16,113.16
6.1.1	Task 1- Public Involvement Plan and Strategy Development Develop and update Public and Stakeholder Outreach Plan document		U	2	U		U	U	0	U	0	U	0	U	U	2	U		-	0	2	10	16	32	\$7,007.72
6.1.2	Develop project messaging and communications templates (i.e. webpage)	 	+	 	 	+	1	 				-					1	-	+		4	15	25	44	\$9,105,44
6.2.0	Task 2 - Stakeholder Coordination	0	81	25	0	0	16	0	20	0	0	0	24	0	0	31	10	0	0	0	23	159	234	623	\$145,756.17
5.1.1	Agency Scoping - will be led by NCTCOG	├	- 0.	20		1	10		20			-	2-7	•		0	10	l o			20	100	204	023	\$0.00
6.2.1	Conduct and develop materials for up to 40 stakeholder meetings	-	40													10	10	- ·	+		8	80	120	268	\$60,962.28
6.2.2	Prepare reports and presentations for Commissioner's Court meetings (up to 5)		5	5												5	10				5	15	20	55	\$13,345.85
6.2.3	Conduct Regional Leader Work Group Meetings (up to 2)	1	24	16			16		16				24			16					8	40	80	240	\$56,552.40
6.2.4	Conduct future technology industry interviews (10) & prepare summary memo & meet with County	1	12	4			10		4							10					2	24	14	60	\$14.895.64
6.3.0	Task 3 - Public Meetings and Hearing	0	83	103	12	0	158	0	63	23	15	15	94	8	0	176	50	0	250	375	97	663	1,208	3,393	\$761,094.52
6.3.0	Compile and maintain mailing list	 			·-	1	100	1	"			1.5	 •	•	•		"			5.0	•	6	20	26	\$4,957.72
6.3.1	Project webpage updates	i e	2													2					10	40	90	144	\$29.588.16
6.3.2	Develop content to conduct public meetings (presentations, exhibits, handouts)		40	40	12		80		40	8			48	8		120	20				36	380	600	1.432	\$321,487,96
6.3.3	Logistics and Venues	1		2																		15	45	62	\$12,119,14
6.3.4	Notice of Public Meeting to property owner/resident list																					8	72	80	\$14,765.76
6.3.5	Prepare and distribute meeting notification in local papers, social media, etc.																				8	40	100	148	\$29,472.08
6.3.6	Email updates to stakeholders/subscribers (12)		2				İ									İ	İ				4	8	24	38	\$8,015.50
6.3.7	Hiring law enforcement																						8	8	\$1,439.20
6.3.8	Public meeting pre-meetings with County and internal team		8	8			İ									8	İ				8	16	24	72	\$18,101.20
6.3.9	Public meeting staffing		15	15			30		15	15	15	15	30			30	30				15	30	45	300	\$73,010.85
6.3.10	Meeting documentation summaries (4)			8			8		8				16			16					16	120	180	372	\$78,849.60
6.3.11	Prepare a 3D fly-though video		16	30			40												250	375				711	\$169,287.35
.0	Objective 7: Project Management	24	364	256	590	272	160	0	48	0	56	0	0	0	0	56	0	0	0	0	24	56	0	1,906	\$530,493.92
7.1.0	Task 1- Schedule, Progress Reports, and Invoices	0	112	32	10	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	224	\$59,769.04
7.1.1	Prepare and maintain a simple graphic milestone schedule (initial schedule + quarterly updates)		24	12	4	12																		52	\$14,569.64
7.1.2	Submit monthly invoices and progress reports (24 months)		48			48																		96	\$22,395.36
7.1.3	Meetings with Subconsultants	<u> </u>	40	20	6	10																		76	\$22,804.04
7.2.0	Task 2 - County Update Meetings and Presentations	16	144	72	8	176	56	0	48	0	56	0	0	0	0	56	0	0	0	0	24	56	0	712	\$183,468.48
7.2.1	Project Team Meetings (monthly)	12	96	48		96	48		48		48					48					24	48		516	\$136,866.96
7.2.2	Technical Presentations (up to 2 presentations)	4	48	24	8	80	8				8	_		_	_	8	<u> </u>	_				8		196	\$46,601.52
7.3.0	Task 3 - QA/QC	8	108	152	572	26	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	970	\$287,256.40
7.3.1	Project Management Plan	2	16	8	4	1	1																	30	\$9,760.12
7.3.2	Quality Management Plan	2	+	 	16	+	-	-								1	-		+					18	\$5,353.24
7.3.3	Quality Control	— ,	+	 	256	+					-								+					256	\$74,685.44
7.3.4	Quality Assurance audit	4	40	40	72	+													+					76	\$22,376.08
7.3.5	Comment Response and Resolution Process	 	40	40	224	1 00	104												+					304	\$91,362.56
7.3.6	Coordinate production of the milestone deliverables (1 align refinement, 4 schem, 7 reports, 1 elec)		52	104	•	26	104										1		+ •		•		•	286	\$83,718.96
	Special Services 2: Plans, Specifications, and Estimates Development	0	4 000	U C40	0	1 200	0	4 272	0	4 507	U 200	220	0 100	724	0 050	205	0 270	1 222	0 0	0 275	450	000	4 402	,	\$0.00
T IT	TOTAL HOURS	24	1,032	\$190,423.70	686	308	2,582	1,372	2,349	1,527	389	330	3,132	734	252	325	376	322	250	375	150	903	1,483	19,511	\$4,690,253.68

Expenses	Quantity	Unit	Rate	Total
Travel	Quantity	Onit	Nuto	Total
	24.0	day/naraan	\$30.00	¢720.00
Lodging/Hotel - Taxes and Fees Lodging/Hotel (Taxes/fees not included)	24.0	day/person	\$125.00	\$720.00 \$3,000.00
		day/person		
Meals (Excluding alcohol & tips) (Overnight stay required)	24.0 8,000.0	day/person	\$60.00	\$1,440.00 \$5,360.00
Mileage Rental Car Fuel	400.0	mile	\$0.67 \$3.47	\$5,360.00 \$1,388.00
		gallon		
Rental Car (Includes taxes and fees; Insurance costs will not be reimbursed) OR fleet vehicle? Air Travel - In State - 2+ Wks Notice (Coach)	15.0 6.0	day Rd Trip/person	\$72.50 \$400.00	\$1,087.50 \$2,400.00
	4.0	 ' ' 		\$2,400.00
Oversize, special handling or extra baggage airline fees Taxi/Cab fare	20.0	each	\$80.00 \$35.00	\$320.00 \$700.00
Parking	20.0	each/person	\$25.00	\$500.00
		day	_	
Toll Charges Administrative	400.0	each	\$10.00	\$4,000.00
	36,000.0	letter	\$0.55	\$19,800.00
Standard Postage Postcard Printing	36,000.0		\$1.00	\$19,000.00
Certified Letter Return Receipt	2.0	each	\$6.30	\$30,000.00 \$12.60
<u> </u>		each		\$40.00
Overnight Mail - letter size	2.0	each	\$20.00	
Overnight Mail - oversized box	20.0	each	\$35.00	\$700.00
Courier Services	8.0	each	\$35.00	\$280.00
Photocopies B/W (11" X 17")	4,000.0	each Each	\$0.20	\$800.00
Photocopies B/W (8 1/2" X 11")	10,000.0		\$0.10	\$1,000.00
Photocopies Color (11" X 17")	4,000.0	each	\$1.00	\$4,000.00
Photocopies Color (8 1/2" X 11")	20,000.0	each	\$1.00	\$20,000.00
Digital Ortho Plotting	18.0	sheet	\$1.70	\$30.60
Plots (B/W on Bond)	500.0	per sq. ft.	\$0.83	\$415.00
Plots (Color on Bond)	500.0	per sq. ft.	\$2.00	\$1,000.00
Plots (Color on Photographic Paper)	500.0	per sq. ft.	\$4.00	\$2,000.00
Color Graphics on Foam Board (24x36)	100.0	each	\$60.00	\$6,000.00
Planning / Environmental	1.0		Ф7 Г 00	ф 7 Г 00
Tx Parks & Wildlife Data Request Fees Hazardous Materials Database Search	0.0	each	\$75.00 \$0.00	\$75.00 \$0.00
Hazardous Materiais Database Search	0.0	per search	\$0.00	\$0.00
Public Involvement				
Newspaper Advertisement	16.0	per publication	\$2,000.00	\$32,000.00
Digital Advertising	12.0	per publication	\$1,000.00	\$12,000.00
Translator (English to Spanish, other language as appropriate, or Sign Language) for Public Involvement	3.0	event	\$400.00	\$1,200.00
Custodian for Public Involvement	12.0	hour/custodian	\$50.00	\$600.00
Sound Technician for Public Involvement	3.0	event	\$350.00	\$1,050.00
Public Involvement Facility Rental	3.0	event	\$2,000.00	\$6,000.00
Audio - Visual Equipment Rental	3.0	event	\$800.00	\$2,400.00
Electronic Message Signs	0.0	day	\$0.00	\$0.00
Law Enforcement/Uniform Officer (including vehicle)	24.0	hour	\$200.00	\$4,800.00
Event Setup Rental (chairs/tables/tents/porto)	3.0	each	\$3,000.00	\$9,000.00
Mailing Lists	1.0		\$100.00	\$100.00
Databases - Socioeconomic and Other	1.0	each each	\$100.00	\$100.00
Royalty Free Images	10.0	each	\$200.00	\$2,000.00
Troyally 1 100 illiages	10.0	6001	Ψ200.00	\$0.00
Markup on Outside Expenses				φυ.υυ
5% administrative markup for outside expenses incurred by Burns & McDonnell, such as authorized travel and				
subsistence, and for services rendered by others such as subcontractors.	1			\$162,391.56
יסטטיסיסיסיסיס, מווע וער ספריוניפט ופרועפופע אין ענוופרט טעטוו מט טעטעטוונומענערט.	+			
Total	1			\$346,760.26
10(8)	1			φ340,700.20

SUB PROVIDER: Kimley-Horn and Associates

	Task Description	Principal	Traffic Project Manager	Quality Manager	Admin/ Clerical	Engineer (Senior)	Engineer (Project)	Engineer-In- Training	Trans. Planner (Senior)	Trans. Planner	TOTAL HOURS	TOTAL COSTS
	Hourly Rates:	\$370.00	\$350.00	\$335.00	\$145.00	\$350.00	\$250.00	\$170.00	\$335.00	\$230.00		
1.0.0	Objective 1: Data Collection and Route Studies	0	7	2	0	5	10	125	5	40	194	\$39,495.00
1.1.0	Task 1- Data Collection	0	7	2	0	5	10	125	5	40	194	\$39,495.00
1.1.1	Desktop Data Collection		5	2		5	10	40	5	25	92	\$20,895.00
1.1.2	Field Reconnaissance		2					85		15	102	\$18,600.00
3.0.0	Objective 3: Traffic Projections and Traffic and Safety Analysis	0	47	34	0	115	190	195	89	85	755	\$198,105.00
3.1.0	Task 1- Travel Demand Model Updates	0	22	9	0	90	105	75	64	0	365	\$102,655.00
3.1.1	Potential Future Consideration Build Pairings		20	5		80	95	60	64		324	\$92,065.00
3.1.2	Establishment of "No-Build" Conditions for a basis of comparison		2	4		10	10	15			41	\$10,590.00
3.2.0	Task 2 - Develop Traffic Projections	0	25	25	0	25	85	120	25	85	390	\$95,450.00
3.2.1	Traffic Projections for Air and Noise Analysis		20	15		20	65	95	25	85	325	\$79,350.00
3.2.2	Traffic Projections for Microsimulation Analysis		5	10		5	20	25			65	\$16,100.00
6.0.0	Objective 6: Public Involvement and Stakeholder Outreach	20	80	2	0	25	20	55	40	0	242	\$72,570.00
6.2.0	Task 2 - Stakeholder Coordination and Charettes	20	35	2	0	25	0	10	40	0	132	\$44,170.00
6.2.1	Conduct Stakeholder Meetings	15	20						20		55	\$19,250.00
6.2.2	Regional Leader Work Groups	5	5						15		25	\$8,625.00
6.2.3	Emerging Technology Coordination and Strategy Development		10	2		25		10	5		52	\$16,295.00
6.3.0	Task 3 - Public Meetings and Hearing	0	45	0	0	0	20	45	0	0	110	\$28,400.00
6.3.0	Public Meetings and Hearing		45				20	45			110	\$28,400.00
7.0.0	Objective 7: Project Management	0	24	0	24	0	12	0	0	0	60	\$14,880.00
7.1.0	Task 1- Schedule, Progress Reports, and Invoices	0	24	0	24	0	12	0	0	0	60	\$14,880.00
7.1.1	Monthly Progress Reports and Invoicing		24		24		12				60	\$14,880.00
	TOTAL HOURS	20	158	38	24	145	232	375	134	125	1,251	
	TOTAL LABOR COSTS	\$7,400.00	\$55,300.00	\$12,730.00	\$3,480.00	\$50,750.00	\$58,000.00	\$63,750.00	\$44,890.00	\$28,750.00		\$325,050.00

SUB PROVIDER: KIMLEY-HORN

Other Direct Expenses	Quantity	Unit	Rate	Total
Lodging/Hotel - Taxes and Fees		day/person		\$0.00
Lodging/Hotel (Taxes/fees not included)		day/person		\$0.00
Meals (Excluding alcohol & tips) (Overnight stay required)		day/person		\$0.00
Mileage	300.0	mile	\$0.67	\$201.00
Rental Car Fuel		gallon		\$0.00
Rental Car (Includes taxes and fees; Insurance costs will not be reimbursed)		day		\$0.00
Air Travel - In State - 2+ Wks Notice (Coach)		Rd Trip/person		\$0.00
Oversize, special handling or extra baggage airline fees		each		\$0.00
Taxi/Cab fare		each/person		\$0.00
Parking		day		\$0.00
Toll Charges		each		\$0.00
Standard Postage		letter		\$0.00
Certified Letter Return Receipt		each		\$0.00
Overnight Mail - letter size		each		\$0.00
Overnight Mail - oversized box		each		\$0.00
Courier Services		each		\$0.00
Photocopies B/W (11" X 17")		each		\$0.00
Photocopies B/W (8 1/2" X 11")		Each		\$0.00
Photocopies Color (11" X 17")		each		\$0.00
Photocopies Color (8 1/2" X 11")		each		\$0.00
Digital Ortho Plotting		sheet		\$0.00
Plots (B/W on Bond)		per sq. ft.		\$0.00
Plots (Color on Bond)		per sq. ft.		\$0.00
Plots (Color on Photographic Paper)		per sq. ft.		\$0.00
Color Graphics on Foam Board		square foot		\$0.00
Tx Parks & Wildlife Data Request Fees		each		\$0.00
Hazardous Materials Database Search		per search		\$0.00
Translator (English to Spanish, other language as appropriate, or Sign Language) for Public Involvement		event		\$0.00
Custodian for Public Involvement		hour/custodian		\$0.00
Sound Technician for Public Involvement		event		\$0.00
Public Involvement Facility Rental		event		\$0.00
Audio - Visual Equipment Rental		event		\$0.00
Electronic Message Signs		day		\$0.00
Law Enforcement/Uniform Officer (including vehicle)		hour		\$0.00
Event Setup Rental (chairs/tables/tents/porto)		each		\$0.00
Mailing Lists		each		\$0.00
Databases - Socioeconomic and Other		each		\$0.00
Total				\$201.00

SUB PROVIDER: Civil Associates/Bartlett & West

	Task Description	Quality Manager	Admin/ Clerical	Env. Project Manager	Env. Planner (Senior)	Env Planner III	TOTAL HOURS	TOTAL COSTS
	Hourly Rates:	\$250.95	\$71.86	\$242.40	\$196.77	\$128.33		
	Objective 5: Environmental Studies	5	0	0	48	176	229	\$33,285.79
5.2.0	Task 2 - Desktop and Field Studies	0	0	0	10	76	86	\$11,720.78
5.2.1	Task 2C - Communities and Social Setting							
	Desktop Data Collection and Windshield Survey					28	28	\$3,593.24
	Population Identification and Mapping				6	24	30	\$4,260.54
5.2.2	Task 2I - Regulated/Hazardous Materials						0	\$0.00
	Hazmat Site Identification and Analysis				4	8	12	\$1,813.72
	Hazmat Windshield Survey					16	16	\$2,053.28
5.3.0	Task 3 - Draft Environmental Document	5	0	0	32	84	121	\$18,331.11
5.3.1	Task 3D - Environmental Resources, Effects, and Mitigation							
	Community Effects	2			8	24	34	\$5,155.98
	Regulated/Hazardous Materials	2			12	24	38	\$5,943.06
5.3.2	Task 3E – Draft Environmental Document - Version 1 Submittal							
	Address Community Effects and Hazardous Materials Impacts Comments	1			8	24	33	\$4,779.56
5.3.3	Task 3F – Draft Environmental Document - Version 2 Submittal							
	Address Additional Community Effects and Hazardous Materials Impacts Comments	1			4	12	17	\$2,452.52
5.4.0	Task 4 - Final Environmental Document	0	0	0	6	16	22	\$3,233.90
5.4.1	Task 4A – Final Environmental Document - Version 1 Submittal							
	Address Community Effects and Hazardous Materials Impacts Comments				4	12	16	\$2,327.04
5.4.2	Task 4B – Final Environmental Document - Version 2 Submittal							
	Address Additional Community Effects and Hazardous Materials Impacts Comments				2	4	6	\$906.86
	Objective 7: Project Management	0	24	12	0	0	36	\$4,633.44
7.1.0	Task 1- Schedule, Progress Reports, and Invoices	0	24	12	0	0	36	\$4,633.44
7.1.2	Monthly Progress Reports			12			12	\$2,908.80
7.1.3	Invoicing		24				24	\$1,724.64
	TOTAL HOURS	5	24	12	48	176	265	
	TOTAL LABOR COSTS	\$1,254.75	\$1,724.64	\$2,908.80	\$9,444.96	\$22,586.08		\$37,919.23

Collin County Outer Loop Segments 2 and 4 Exhibit B

Professional Services Fee

Other Direct Expenses	Quantity	Unit	Rate	Total
Lodging/Hotel - Taxes and Fees	Quantity	day/person	Nate	\$0.00
Lodging/Hotel (Taxes/fees not included)		day/person		\$0.00
Meals (Excluding alcohol & tips) (Overnight stay required)		day/person		\$0.00
Mileage	260.0	mile	\$0.67	\$174.20
Rental Car Fuel	200.0	gallon	Ψ0.07	\$0.00
Rental Car (Includes taxes and fees; Insurance costs will not be reimbursed)		day		\$0.00
Air Travel - In State - 2+ Wks Notice (Coach)		Rd Trip/person		\$0.00
Oversize, special handling or extra baggage airline fees		each		\$0.00
Taxi/Cab fare		each/person		\$0.0
Parking		day		\$0.00
Toll Charges		each		\$0.00
Standard Postage		letter		\$0.00
Certified Letter Return Receipt		each		\$0.00
Overnight Mail - letter size	2.0	each	\$25.00	\$50.0
Overnight Mail - oversized box	2.0	each	Ψ23.00	\$0.00
Courier Services		each		\$0.0
Photocopies B/W (11" X 17")		each		\$0.00
Photocopies B/W (8 1/2" X 11")		Each		\$0.00
Photocopies Color (11" X 17")		each		\$0.00
Photocopies Color (8 1/2" X 11")	100.0	each	\$1.00	\$100.00
Digital Ortho Plotting	100.0	sheet	Ų 1.00	\$0.00
Plots (B/W on Bond)		per sq. ft.		\$0.0
Plots (Color on Bond)		per sq. ft.		\$0.0
Plots (Color on Photographic Paper)		per sq. ft.		\$0.0
Color Graphics on Foam Board		square foot		\$0.0
Tx Parks & Wildlife Data Request Fees		each		\$0.0
Hazardous Materials Database Search	2.0	per search	\$1,000.00	\$2,000.0
Translator (English to Spanish, other language as appropriate, or Sign Language) for Public Involvement		event		\$0.0
Custodian for Public Involvement		hour/custodian		\$0.0
Sound Technician for Public Involvement		event		\$0.0
Public Involvement Facility Rental		event		\$0.0
Audio - Visual Equipment Rental		event		\$0.0
Electronic Message Signs		day		\$0.0
Law Enforcement/Uniform Officer (including vehicle)		hour		\$0.00
Event Setup Rental (chairs/tables/tents/porto)		each		\$0.00
Mailing Lists		each		\$0.00
Databases - Socioeconomic and Other		each		\$0.00
Total				\$2,324.20

Collin County Outer Loop Segments 2 and 4 Exhibit B

Professional Services Fee

SUB PROVIDER: I	.amb-Star Engineering,	LLC
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-	OOD I NO VIDEN. Earlib-otal Engineering, EEC																		
	Task Description	Support Manager	GIS Operator - Senior	GIS Operator	Abstractor (Property Deed Researcher, Courthouse or Internet research)	Surveyor (RPLS) - Senior	Surveyor (RPLS)	Senior Survey Technician or Surveyor-In-Training (SIT)		LiDAR Processing Technician (Helicopter, Fixed Wing, Mobile, UAS, Terrestrial)	Survey Field Crew Coordinator	CAD Operator - Senior	CAD Operator	Administrative/Clerical	2-Person Survey Crew	1-Person Survey Crew	3-Person Survey Crew	TOTAL HOURS	TOTAL COSTS
	Hourly Rates:	\$271.11	\$168.21	\$122.55	\$99.97	\$246.71	\$197.37	\$131.36	\$112.46	\$123.03	\$128.16	\$140.98	\$117.59	\$105.73	\$200.00	\$140.00	\$245.00		
	Objective 7: Project Management	52	0	0	0	4	52	28	0	0	0	0	0	38	0	0	0	174	\$33,043.62
7.1.0	Task 1- Schedule, Progress Reports, and Invoices	52	0	0	0	4	52	28	0	0	0	0	0	38	0	0	0	174	\$33,043.62
7.1.1	Progress reports & Invoices (Monthly for 24 months)	24					24	12						36				96	\$16,626.12
7.1.2	Kick-off Meeting (in-person; prep, coordination, notes)	4				4	4	4						2				18	\$3,597.66
7.1.3	Coordination with Aerial Provider																	0	\$0.00
7.1.4	Internal TL Meetings (Monthly, 24 mtgs, virtual)	24					24	12										60	\$12,819.84
8.0.0	Special Services 1: Survey, Geotech, Right-of-Way and Utility Mapping	719	44	177	16	183	882	1,826	2,840	102	198	138	530	128	2,940	1	1	10,725	\$1,725,719.35
8.1.0	Task 1- Survey	185	24	87	8	15	198	370	700	102	128	32	118	60	1,130	1	1	3,159	\$515,828.43
8.1.1	Right of Entry (For survey only; up to 100 properties)	28	6	32	8	3	30		200					40	·			347	\$46,704.13
	Provide 100' interval cross sections along all railroad & public roadway corridors, up to 200'																		#0.00
8.1.2	beyond the CCOL corridor width. (Omitted)																	0	\$0.00
8.1.3	Locate up to 230 Quality Level "A" Test Holes by others.	17	2	8		0	10	24	76		30			2	290			459	\$81,655.25
8.1.4	Locate existing visible improvements. (Omitted)																	0	\$0.00
8.1.5	Provide details of existing bridge structures.	4	1	1		0	4	6	8	12	2			1	20			59	\$9,690.93
8.1.6	Locate details of existing drainage features	8	1	4		0	6	14	32		8			1	75			149	\$25,580.28
8.1.7	Survey of wetlands as marked by others (Omitted)	0	0	0		0	0	0	0		0			0				0	\$0.00
8.1.8	Locate boreholes (Omitted)		<u> </u>					,						Ť				0	\$0.00
l I	Perform up to one hundred two (102) hydrographic creek cross sections as designated by the																		i i
8.1.9	Engineer.	36	5	17		0	28	66	164		42			4	410	1	1	774	\$133,514.56
1	Establish up to 53 primary Horizontal and Vertical Control Monuments (TXDOT Type II																		
8.1.10	Construction). Horizontal via GPS RTK, elevation via digital level loop.	35	2	6		4	56	136	56		34			4	335			668	\$118,543.21
	Establish aerial ground control targets. Horizontal via GPS RTK, elevation via digital level loop.																		
8.1.11	(Omitted)																	0	\$0.00
1	Prepare New Survey Control Data Sheets; includes TXDOT style Horizontal & Vertical Control				+														
8.1.12	Sheets, Survey Control Index Sheets, and Form 2462 sheets.	11	2	6		2	10	22	54			28	106	2				243	\$32,107.25
8.1.13	QA/QC	14	2	6		2	14	34	46	10	12	4	12	2				158	\$22,717.94
8.1.14	Deliverable - DTM; Merge LSE supplemental DTMs with provided aerial DTM.	27	2	6	+ -	2	24	56	56	80	12	4	12	3				256	\$37,435.50
8.1.15	Deliverable - Ontrol sheets, georeferenced photos, field notes, ASCII files	<u> </u>	1	1		2	16	12	8	00				3				46	\$7,879.38
8.3.0	Task 3 - Right-of-Way Mapping	534	20	90	8	168	684	1,456	2,140	0	70	106	412	68	1,810	0	0	7,566	\$1,209,890.92
0.3.0	rask 3 - Right-or-vvay mapping	J34	20	90	0	100	004	1,450	2,140	U	70	100	412	00	1,010	U	U	7,300	\$1,209,090.92
- - - - - - - - - - - -	POW Manning (up to 164 Exhibit "A" deguments)		-		 					-						-	-	0	\$0.00
0 2 4	ROW Mapping (up to 164 Exhibit "A" documents)	210				70	276	688	1 1 1 1 0					20	1 150			•	\$0.00 \$582,470.28
8.3.1	a. Abstract Map	218				72	276	000	1,142	<u> </u>				22	1,150			3,568	
8.3.2	b. Abstract Map Update	00			 		10	64				40	150	4				200	\$0.00
8.3.3	b. Right-of-Way Map (Assumes 40 22"x34" Map Sheets)	28			 	U 00	16	64	000	<u> </u>	60	40	156	4	600			308	\$43,562.20
8.3.4	c. Exhibit "A" documents (plat & description)	218				88	340	564	822		66	60	236	22	660			3,076	\$493,442.08
8.3.5	d. GIS	10	14	82		•	4	16	00		4		00	6				132	\$18,640.76
8.3.6	QA/QC	48	2	6		გ	32	64	96		4	6	20	6		ļ		292	\$45,922.42
8.3.7	Deliverables - Hard Copies, electronic copies, photos, etc	12	4	2	8		16	60	80	155	15.7	15.7		8				190	\$25,853.18
	TOTAL HOURS	771	44	177	16	187	934	1,854	2,840	102	198	138	530	166	2,940	1	1	10,899	
	TOTAL LABOR COSTS	\$209,025.81	\$7,401.24	\$21,691.35	\$1,599.52	\$46,134.77	\$184,343.58	\$243,541.44	\$319,386.40	\$12,549.06	\$25,375.68	\$19,455.24	\$62,322.70	\$17,551.18	\$588,000.00	\$140.00	\$245.00		\$1,758,762.97

SUB PROVIDER: Lamb-Star Engineering, LLC

Other Direct Expenses	Quantity ROW	Quantity Design	Unit	Rate	Total
Mileage	17,195	10,735	mile	\$0.670	\$18,713.10
Standard Postage	320		letter	\$0.68	\$217.60
Photocopies B/W (8 1/2" X 11")	2,460		Each	\$0.15	\$369.00
Photocopies Color (11" X 17")	80		each	\$1.25	\$100.00
Plots (Color on Bond)	410		per sq. ft.	\$1.75	\$717.50
SUV or ATV Rental (Includes taxes and fees; Insurance costs will not be reimbursed)	40	40	day	\$185.00	\$14,800.00
Hard Drive (up to 1 TB)	1	1	each	\$100.00	\$200.00
Map/Plat Records	10		Page	\$5.00	\$50.00
75-Year Abstract per parcel (July 1, 1949)	164		each	\$650.00	\$106,600.00
NCTCOG Aerial Panels		61	each	\$50.00	\$3,050.00
NCTCOG LiDAR Panels		61	each	\$50.00	\$3,050.00
RTK Base Radio	1,177	733	hour	\$30.00	\$57,300.00
GPS Receiver Rate	1,177	733	hour	\$30.00	\$57,300.00
Terrestrial Laser Scanner (rates applied to actual time scanner unit is in use) (scanner owned by provider)		10	hour	\$125.00	\$1,250.00
Type II ROW/Control Monument - Excavated/Drilled, rocks, rocky soil. 2-4 inch depth (includes equipment, materials, & rentals). Marker supplied by TxDOT		2	each	\$100.00	\$200.00
Type II ROW/Control Monument - Poured 2-3 Feet (includes equipment, materials, & rentals). Marker supplied by TxDOT		51	each	\$300.00	\$15,300.00
Terrestrial Photogrammetry Camera		1	hour	\$125.00	\$125.00
Ground Target (includes paint and panel material)		0	each	\$30.00	\$0.00
Deed Copies	100		sheet	\$1.00	\$100.00
Delineator Posts (Materials only)		51	each	\$25.00	\$1,275.00
Project Specific Aluminum Control Caps		53	each	\$20.00	\$1,060.00
Attenuator trucks - (Lane/Shoulder Closure) (Includes labor, equipment and fuel)		0	day	\$1,600.00	\$0.00
Attenuator trucks - (No Lane Closure) (Includes labor, equipment and fuel)		0	day	\$1,000.00	\$0.00
Traffic Control Services, Arrow Boards and Attenuator trucks - (Includes labor, equipment and fuel)		0	day	\$5,150.00	\$0.00
Railroad - Insurance in addition to STD Minimum Required (Minimum Coverage of \$1 Million required by RR)		0	each	\$2,500.00	\$0.00
Railroad - Value Maps	10		per sheet	\$75.00	\$750.00
Rental Equipment - Gasoline Powered Auger		11	day	\$100.00	\$1,100.00
					\$0.00
			each		\$0.00
Total					\$283,627.20

SUB PROVIDER: TERRACON CONSULTANTS, INC

	Task Description	Support Manager (Principal)	Admin/ Clerical	Engineer (Senior)	Engineer (Project)	Engineer Technician (Senior)	Engineer Technician	Visual 3D (CAD Operator) Specialist (Senior)	TOTAL HOURS	TOTAL COSTS
	Hourly Rates:	\$242.49	\$109.78	\$235.94	\$196.61	\$147.46	\$124.52	\$117.97		
8.0.0	Special Services 1: Survey, Geotech, Right-of-Way and Utility Mapping	22	28	14	0	68	60	0	192	\$29,210.26
8.2.0	Task 2 - Geotechnical Engineering	22	28	14	0	68	60	0	192	\$29,210.26
	Existing Literature Review (up to 10 reports)	8	20	4		40	40		112	\$15,958.48
	Prepare a preliminary pavement section memo (for preliminary cost estimation only)	10	8	6		20	20		64	\$10,158.38
	Meeting to Discuss Findings	4		4		8			16	\$3,093.40
	TOTAL HOURS	22	28	14	0	68	60	0	192	
	TOTAL LABOR COSTS	\$5,334.78	\$3,073.84	\$3,303.16	\$0.00	\$10,027.28	\$7,471.20	\$0.00		\$29,210.26

	Task Description	Support Manager	Engineer (Senior)	Engineer (Project)		Senior Utility Coordinator	Utility Coordinator	Utility Field Inspector - Senior	Utility Field Inspector	Engineer-In- Training		Engineer echnician - Junior	CADD Operator - Senior	CADD Operator	CADD Operator - Junior	Project Control Specialist	SUE Manager	SUE Field Manager	Utilities Coordinator - Senior	Utilities Coordinator	Utilities Field Inspector - Senior	Utilities Field Inspector	Engineering Specialist (Utility)	Administrative/CI erical	TOTAL HOURS	TOTAL COSTS
[Years of Experience	10+	15+	10 to 15	5 to 15	15+		15+		0 to 5	5 to 15	0 to 5	15+	5 to 15	0 to 5	5 to 15			15+		15+		5 to 15		Ĺ	
	Hourly Rates:	\$ 236.67	\$ 261.92	\$ 208.27	\$ 174.47	\$ 203.72	\$ 137.90	\$ 144.17	\$ 103.43	\$ 121.78	\$ 121.49 \$	94.67	\$ 116.76	\$ 91.51	\$ 69.42	\$ 128.97	\$ 143.58	\$ 110.45	\$ 205.12	\$ 138.85	\$ 145.16	\$ 104.14	\$ 82.05	\$ 100.98	1	
	Objective 1: Data Collection and Route Studies	0	96	0	0	0	0	0	0	160	0	56	80	0	360	0	0	0	0	0	0	0	0	120	872	\$96,380
.0	Task 1- Data Collection	0	96	0	0	0	0	0	0	160	0	56	80	0	360	0	0	0	0	0	0	0	0	120	872	\$96,380
1.1.1	1 Gather utility data for SUE base file.		16							40		16			40									80	192	\$21,431
1.1.2	Analyze and develop Quality Level "C" & Quality Level "D" line work.		80							120		40	80		320									40	680	\$74,948
	Objective 2: Conceptual and Geometric Schematic Design	10	0	10	40	80	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	\$33,241
1.0	Task 1- 30% Conceptual Schematic Development (Ultimate Design)	10	0	10	40	80	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	\$33,241
2.1.1	1 Evaluate potential utility conflicts	10		10	40	80	40																		180	\$33,241
	Objective 5: Environmental Studies	3	0	0	40	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	\$23,986
3.0	Task 3 - Draft Environmental Document	3	0	0	40	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	\$23,986.
5.3D	Utilities - Identify and assess the effect the project would have on existing and proposed major utilities (e.g., pipelines, overhead transmission lines, pump stations, etc.). Describe any relocation or design considerations including additional planning by the utility company and costs to relocate such utilities	3			40	80																			123	\$23,986.
	Objective 6: Public Involvement and Stakeholder Outreach	10	0	0	40	80	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170	\$31,159
2.0	Task 2 - Stakeholder Coordination and Charettes	10	0	0	40	80	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170	\$31,159.
6.20	Conduct up to 10 interviews coordination meetings with utility providers in the study area with the intention to identify future utility lines and plans that could be concentrated with a future utility corridor in, or along side the Collin County Outer Loop.	10			40	80	40																		170	\$31,159.
	TOTAL HOURS	23	96	10	120	240	80	0	0	160	0	56	80	0	360	0	0	0	0	0	0	0	0	120	1,345	
	TOTAL LABOR COSTS	\$5,443,41	\$25 144 32	\$2,082.70	\$20,936.40	\$48.892.80	\$11 032 00	\$0.00	\$0.00	\$19 484 80	\$0.00	\$5.301.52	\$9.340.80	\$0.00	\$24,991,20	\$0.00	00.00	\$0.00	\$0.00	¢n nn	\$0.00	\$0.00	\$0.00	\$12,117,60		\$184.76

SUB PROVIDER: RIOS

Other Direct Expenses	Quantity	Unit	Rate	Total
	CONTR			
ITEM DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT
SUE Services	, -,			
One (1) Designating Person with Equipment	240	HR	\$ 135.00	\$ 32,400.00
Two (2) Designating Person with Equipment	40	HR	\$ 180.00	\$ 7,200.00
SUE QL "C" & "D" (includes calling / obtaining records)		EA	\$ 0.50	\$ -
SUE QL "B" (includes engineering, CADD and equipment)		EA	\$ 1.50	\$ -
SUE QL "A" Test Holes (includes engineering, CADD and equipment)				\$ -
0 to 5 feet	100	EA	\$ 1,350.00	\$ 135,000.00
>5 to 8 feet	80	EA	\$ 1,600.00	\$ 128,000.00
>8 to 13 feet	40	EA	\$ 2,000.00	\$ 80,000.00
>13 to 20 feet	10	EA	\$ 2,900.00	\$ 29,000.00
Traffic Control	10	DAY	\$ 3,000.00	\$ 30,000.00
Lodging/Hotel - Taxes and Fees		day/person		\$ -
Lodging/Hotel (Taxes/fees not included)		day/person		\$ -
Meals (Excluding alcohol & tips) (Overnight stay required)		day/person		\$ -
Mileage		mile		\$ -
Total				\$441,600.00