Project: SPTC Forni Road to Missouri Flat Road Segment - Engineering Design Cost Proposal

Cunningham Engineering Design Team

Last Revised: June 6, 2007 By: S. Greenfield

Assumes 1"=50' Plan sheets and Initial Authorization for Tasks A & B only

PHASE 1 - PRELIMINARY DESIGN/EVALUATION & 30% PS&E

		CUNNINGHAM ENGINEERING CORPORATION											CBC SURVEYS						QUINCY ENGINEERING INCORPORATED								GEOCON CONSULTANTS INCORPORATED						
		CWC	SG	ML	CK	JB, LE	DW LR DLV	CG	GC	MN RB DS LW EDT	CS	CEC	Survey	Proj.	Survey	2 Person	2 Person	CBC	SM/AG	TO	LM	DM	PW			QEI		Sr. Proj	Sr. Staff	Staff				GCI
		Princ	PM II	Sr Eng	Staff II	CAD IV	CAD I	PC II	Ops Mgr	Clerical	LSA	Totals by Task	PM	Surveyor	Tech	Crew	Crew OT	Totals by Task	Princ	Proj Mgr Proj Engr	Assoc Engr	Assoc Engr	Bridge Inspector	CADD	QA/QC Engr	Totals by Task	Sr Engr	Engr	Engr	Engr	Drafting	Admin	Totals by Task
	2007 Hourly Rates:	$200	$176	$157	$108	$111	$67	$85	$85	$64	$122		$130	$105	$95	$210	$273		$208	$161	$135	$104	$155	$89	$175		$140	$125	$105	$95	$70	$65	
1	General Project Management	4	24		4			4	6			$6,306						$0	2	14						$2,670							$0
1.a	Kickoff Meeting	0	6	0	6	0	0	6	0	0	0	$2,214						$0		6						$966	4						$560
1.b	Monthly Progress Reports (5)		3		7			7				$1,879						$0								$0							$0
1.c	CPM Schedule Monthly Updates (5)		2		7			3				$1,363						$0								$0							$0
1.d	Funding Document List		2					6				$862						$0								$0							$0
1.e	Coordination with Adjacent Projects		1		3	2						$722						$0								$0							$0
1.f	Permit Coordination		0		2			8				$896						$0								$0							$0
1.g	Progress Meetings (5 mtgs @ 6 hrs/mtg incl prep & minutes)		30		30			30				$11,070						$0								$0							$0
1.h	Gather Background Information		2		4			6				$1,294						$0								$0							$0
2	Surveying & Base Mapping																																
2.a	Survey Data Gathering/Project Coordination		2		2							$568	1	8				$970								$0							$0
2.b	Control Survey				2	2						$438	4	8		40	15	$13,855								$0							$0
2.c	Preliminary R/W Engineering											$0	4	8	16	16	4	$7,332								$0							$0
2.d	Photogrammetric Mapping Aerial Flight											$0						$8,560								$0							$0
2.e	Supplemental Topo Surveys & Basemapping Compilation				16							$1,728	4	40	16	32	8	$15,144								$0							$0
3	Geotechnical Engineering Investigation		2		2							$568						$0								$0	2	4	10	19	4	3	$4,110
												$0						$0								$0							$0
4	Programming, Constraints & Opportunities Assessment	1	2		4			1				$1,069						$0								$0							$0
5	Programming Technical Memo		1		3			2		2		$798						$0								$0							$0
6	Preliminary Horizontal Alignment/GAD		4		8	24	12			1		$5,100						$0								$0							$0
7	Weber Creek Trestle Insp & Limited As-Built Bridge Plans		1		1							$284						$0		20	8		20	8		$8,112							$0
8	Utility Identification				2	4		4				$1,000						$0								$0							$0
9	Utility Potholing (See below - reimb for subcontractor allow.)				4	2			2			$824						$0								$0							$0
	ESTIMATED HOURS	5	82	0	107	34	12	77	8	3	0		13	64	32	88	27		2	40	8	0	20	8	0		6	4	10	19	4	3	
	LABOR BUDGET	$1,000	$14,432	$0	$11,556	$3,774	$804	$6,545	$680	$192	$0	$38,983	$1,690	$6,720	$3,040	$18,480	$7,371	$37,301	$416	$6,440	$1,080	$0	$3,100	$712	$0	$11,748	$840	$500	$1,050	$1,805	$280	$195	$4,670
	REIMBURSABLES					mileage, plots, copies, etc.				$500	115%	$575	Aerial photogrammetry			$8,560	100%	$8,560								$0				mileage	$144	100%	$144
	REIMBURSABLES					Utility potholing contractor allowance				$8,500	115%	$9,775						$0								$0				Trenching Subcontractor	$1,000	115%	$1,150
	REIMBURSABLES											$0						$0								$0				Laboratory Testing	$1,420	100%	$1,420
	TIME AND EXPENSES BUDGET SUBTOTAL											$49,333						$45,861								$11,748							$7,384
	SUBCONSULTANT MARKUP 15%											$0					15%	$6,879							15%	$1,762						15%	$1,108
	SUBTOTAL TASK A											$49,333						$52,740								$13,510							$8,492
	TOTAL TASK A (all disciplines) =	$124,075																															
1	Civil Improvement Plans																	$0								$0							$0
1.a	Title Sheet				1	4						$552						$0								$0							$0
1.b	Survey Control		1			4						$620						$0								$0							$0
1.c	Preliminary Plan/Profile (12 sheets @ 1"=50')	2	3		36	60				3	4	$12,156						$0								$0							$0
1.d	Typical Sections				2	2	12					$1,242						$0								$0							$0
1.e	Schematic Drainage Improvements			4	12	4	12					$3,172						$0								$0							$0
2	Weber Creek Bridge Trestle Modification Alts		2																	20	56	24		12		$14,344							$0
3	Preliminary Construction Cost Opinion		2		4		12			1		$1,652						$0		included in Task B.2						$0							$0
4	Progress Meetings (1 mtg @ 6 hrs/mtg incl prep & minutes)		6		6			6				$2,214						$0								$0							$0
5	Funding & Environmental Assistance		4					4				$1,044						$0								$0							$0
	ESTIMATED HOURS	2	18	4	61	74	36	10	0	4	4		0	0	0	0	0		0	20	56	24	0	12	0		0	0	0	0	0	0	
	LABOR BUDGET	$400	$3,168	$628	$6,588	$8,214	$2,412	$850	$0	$256	$488	$23,004	$0	$0	$0	$0	$0	$0	$0	$3,220	$7,560	$2,496	$0	$1,068	$0	$14,344	$0	$0	$0	$0	$0	$0	$0
	REIMBURSABLES					mileage, plots, copies, etc.				$800	115%	$920					115%	$0							115%	$0						115%	$0
	TIME AND EXPENSES BUDGET SUBTOTAL											$23,924						$0								$14,344							$0
	SUBCONSULTANT MARKUP 15%											$0					15%	$0							15%	$2,152						15%	$0
	SUBTOTAL TASK B											$23,924						$0								$16,496							$0
	TOTAL TASK B (all disciplines) =	$40,420																															
	TOTAL TASKS A & B (all disciplines) =	$164,495																															