

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

2007 Hourly Rates:

	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								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	Assoc Engr	Assoc Engr	Bridge Inspector	CADD	QA/QC Engr	Totals by Task	Sr Engr	Sr. Proj Engr	Sr. Staff Engr	Staff Engr	Drafting	Admin	Totals by Task
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							\$566
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			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											\$568						\$970							\$0								\$0
2.a Survey Data Gathering/Project Coordination		2		2							\$438	1	8				\$13,855							\$0								\$0
2.b Control Survey				2	2						\$0	4	8		40	15	\$7,332							\$0								\$0
2.c Preliminary R/W Engineering											\$0	4	8	16	16	4	\$8,560							\$0								\$0
2.d Photogrammetric Mapping Aerial Flight											\$0						\$15,144							\$0								\$0
2.e Supplemental Topo Surveys & Basemapping Compilation				16							\$1,728	4	40	16	32	8	\$0							\$0								\$0
3 Geotechnical Engineering Investigation			2	2							\$568						\$0							\$0	2	4	10	19	4	3		\$4,110
4 Programming, Constraints & Opportunities Assessment	1	2		4			1				\$1,069						\$0							\$0								\$0
5 Programming Technical Memo		1		3			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			4				\$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	\$416	\$6,440	\$1,080	\$0	\$3,100	\$712	\$0	\$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														\$144		
REIMBURSABLES							Utility potholing contractor allowance	\$8,500	115%	\$9,775						\$0														\$1,150		
REIMBURSABLES										\$0						\$0														\$1,420		
TIME AND EXPENSES BUDGET SUBTOTAL										\$49,333						\$45,861							\$11,748							\$7,384		
SUBCONSULTANT MARKUP 15%										\$0						\$6,879							\$1,762							\$1,108		
SUBTOTAL TASK A										\$49,333						\$52,740							\$13,510							\$8,492		
TOTAL TASK A (all disciplines) =	\$124,075																															
1 Civil Improvement Plans											\$552						\$0							\$0								\$0
1.a Title Sheet				1	4						\$620						\$0							\$0								\$0
1.b Survey Control		1		4							\$12,156						\$0							\$0								\$0
1.c Preliminary Plan/Profile (12 sheets @ 1"=50')	2	3		36	60				3	4	\$1,242						\$0							\$0								\$0
1.d Typical Sections				2	2	12					\$3,172						\$0							\$0								\$0
1.e Schematic Drainage Improvements			4	12	4	12					\$0						\$0							\$0								\$0
2 Weber Creek Bridge Trestle Modification Alts		2									\$1,652						\$0		20	56	24		12	\$14,344								\$0
3 Preliminary Construction Cost Opinion		2		4		12			1		\$1,652						\$0							\$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	\$3,220	\$7,560	\$2,496	\$0	\$1,068	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
REIMBURSABLES							mileage, plots, copies, etc.	\$800	115%	\$920						\$0							\$115%							\$115%		
TIME AND EXPENSES BUDGET SUBTOTAL										\$23,924						\$0							\$14,344							\$0		
SUBCONSULTANT MARKUP 15%										\$0						\$0							\$1,762							\$1,108		
SUBTOTAL TASK B										\$23,924						\$0							\$16,496							\$0		
TOTAL TASK B (all disciplines) =	\$40,420																															
TOTAL TASKS A & B (all disciplines) =	\$164,495																															