



Project: SPTC Forni Road to Missouri Flat Road Segment - Engineering Design Cost Proposal - Phase 2: 65% PS&E through Bid Assistance																															
Cunningham Engineering Design Team																															
Last Revised: December 11, 2007 By: S. Greenfield																															
																															
CUNNINGHAM ENGINEERING CORPORATION																				QUINCY ENGINEERING INCORPORATED											
PHASE 2 - CONSTRUCTION DOCUMENTS THROUGH BID PHASE	CWC	DF SG	RT ML	KR	JC	BF	CK	NC ATC	JB	SM LE	DS (when drafting)	CT	CG MC	NT	GC	MN RB DS LW EDT	CS	LG	OG	DW	CEC	SM/AG	TO	LM	DM	RC	PW	QEI			
	Princ	PM II	Sr Eng	PE III	PE II	PE I	Staff II	Staff I	CAD IV	CAD III	CAD II	CAD I	PC II	PC I	Ops Mgr	Clerical	LSA	LS D II	LS Des	Lnd Pln	Totals by Task	Princ	Proj Mgr Proj Engr	Assoc Engr	Assoc Engr	Asst Engr	Bridge Inspector	CADD	QA/QC Engr	Totals by Task	
Hourly Rates:	\$206	\$182	\$171	\$142	\$130	\$122	\$111	\$97	\$114	\$111	\$94	\$69	\$94	\$77	\$87	\$66	\$125	\$94	\$83	\$88		\$225	\$173	\$147	\$121	\$95	\$155	\$91	\$190		
<b>Task C Design &amp; Engineering - 65% &amp; 95% PS&amp;E</b>																															
1 General Project Management	2	8					4						4		2															\$2,862	\$0
1.a Monthly Progress Reports (3)		2					3						3																	\$979	\$0
1.b CPM Schedule Monthly Updates (3)		1					3						2																	\$703	\$0
1.c Coordination with Adjacent Projects		1					3		2																					\$743	\$0
1.d Permit Coordination		1					2						8																	\$1,156	\$0
1.e Progress Meetings (3 mtgs @ 6 hrs/mtg incl prep & minutes)		18					18						18																	\$6,966	\$0
2 Exhibit Preparation & Environmental Assistance		20		52			20	14	1	6			1							2	24								\$17,754	\$900	
3 Civil & Structural Improvement Plans																															\$0
3.a Title Sheet							1		1																					\$225	\$0
3.b Index Sheet							1		4																					\$567	\$0
3.c Survey Control Sheet							1		1																					\$114	\$0
3.d Plan/Profile (12 sheets @ 1"=50')	1	6					24		56			16																	\$11,450	\$0	
3.e Typical Sections (2 sheets)							2		4			4																	\$954	\$0	
3.f Drainage Details (3 sheets)	1	2	2				8		24			12																	\$5,364	\$0	
3.g General Construction Details (2 sheets)		2					12		16			8																	\$4,072	\$0	
3.h Culvert Deck & Railing Plans & Details		2					4																						\$808	\$10,658	
3.i Bridge Deck & Railing Plans & Details		2					4																						\$808	\$32,362	
3.j Signing & Striping Details (3 sheets)		2					8		20			12																	\$4,360	\$0	
3.k Erosion Control Plans (8 sheets @ 1"=40')		1					2		4			24																	\$2,516	\$0	
3.l 65% Design Memo/Response to Comments		1					4								1														\$692	\$0	
3.m 65% Submittal							2		4				4		2														\$1,186	\$1,843	
3.n 95% Design Memo/Response to Comments		1					4								1														\$692	\$0	
3.o 95% Submittal							1		4				4		2														\$1,075	\$1,670	
4 Contract Documents - 65% & 95%																															\$0
4.a Notice to Bidders, Contracts		1					1						4																	\$669	\$0
4.b Bonds & Proposal		1					2					4	8																	\$1,432	\$0
4.c Specifications		2					8						24			4														\$3,772	\$2,076
5 Construction Cost Opinion		2					4					12				2														\$1,768	\$3,164
6 Submit NOI							1		1				4			1														\$667	\$0
<b>ESTIMATED HOURS</b>	4	76	2	52	0	0	146	14	142	6	0	92	84	0	2	13	0	0	2	24		4	53	110	0	86	0	184	8		
<b>LABOR BUDGET</b>	\$824	\$13,832	\$342	\$7,384	\$0	\$0	\$16,206	\$1,358	\$16,188	\$666	\$0	\$6,348	\$7,896	\$0	\$174	\$858	\$0	\$0	\$166	\$2,112	\$74,354	\$900	\$9,169	\$16,170	\$0	\$8,170	\$0	\$16,744	\$1,520	\$52,673	
<b>REIMBURSABLES</b>													mileage, plots, copies, etc.		\$2,500	115%					\$2,875							350	100%	\$350	
<b>TIME AND EXPENSES BUDGET SUBTOTAL</b>																					\$77,229									\$53,023	
<b>SUBCONSULTANT MARKUP 15%</b>																					\$0								15%	\$7,953	
<b>SUBTOTAL TASK C</b>																					\$77,229									\$60,976	
<b>TOTAL TASK C (all disciplines) =</b>	\$138,205																														
<b>Task D FINAL PS&amp;E</b>																															
1 Civil Improvement Plans																														\$0	
1.a Final Sheet Revisions & Signature		2					2		8							1														\$1,564	\$0
1.b Final Design Memo/Response to Comments		1					2									1														\$470	\$0
1.c Final Submittal							1						4			4														\$751	\$2,189
2 Contract Documents - Final Revisions																															\$0
2.a Notice to Bidders, Contracts							1						2																	\$299	\$0
2.b Bonds & Proposal		1					1						2																	\$481	\$0
2.c Specifications		1					2						4			2														\$912	\$0
3 Final Construction Cost Opinion		1					2									1														\$470	\$0
4 Progress Meetings (2 mtgs @ 4 hrs/mtg incl prep & minutes)		8					8						8																	\$3,096	\$0
5 Funding & Environmental Assistance		2											2																	\$552	\$0
<b>ESTIMATED HOURS</b>	0	16	0	0	0	0	19	0	8	0	0	0	22	0	0	9	0	0				0	5	4	0	2	0	6	0		
<b>LABOR BUDGET</b>	\$0	\$2,912	\$0	\$0	\$0	\$0	\$2,109	\$0	\$912	\$0	\$0	\$0	\$2,068	\$0	\$0	\$594	\$0	\$0				\$0	\$865	\$588	\$0	\$190	\$0	\$546	\$0	\$2,189	
<b>REIMBURSABLES</b>													mileage, plots, copies, etc.		\$1,600	115%					\$1,840								115%	\$0	
<b>TIME AND EXPENSES BUDGET SUBTOTAL</b>																					\$10,435									\$2,189	
<b>SUBCONSULTANT MARKUP 15%</b>																					\$0								15%	\$328	
<b>SUBTOTAL TASK D</b>																					\$10,435									\$2,517	
<b>TOTAL TASK D (all disciplines) =</b>	\$12,952																														

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	Princ	PM II	Sr Eng	PE III	PE II	PE I	Staff II	Staff I	CAD IV	CAD III	CAD II	CAD I	PC II	PC I	Ops Mgr	Clerical	LSA	LS D II	LS Des	Lnd Pln	Totals by Task	Princ	Proj Mgr Proj Engr	Assoc Engr	Assoc Engr	Asst Engr	Bridge Inspector	CADD	QA/QC Engr	Totals by Task
2007 Hourly Rates:	\$206	\$182	\$171	\$142	\$130	\$122	\$111	\$97	\$114	\$111	\$94	\$69	\$94	\$77	\$87	\$66	\$125	\$94	\$83	\$88		\$208	\$161	\$135	\$121	\$104	\$155	\$89	\$175	
<b>Task E Bid Assistance</b>																														
1 Bid Assistance																														\$0
1.a Attend Pre-Bid Meeting		4					4														\$1,172									\$0
1.b Engineering Consultation during Bid & Addenda Prep		4					12		12							1					\$3,494	4								\$692
<b>ESTIMATED HOURS</b>	0	8	0	0	0	0	16	0	12	0	0	0	0	0	0	1	0	0				0	4	0	0	0	0	0	0	0
<b>LABOR BUDGET</b>	\$0	\$1,456	\$0	\$0	\$0	\$0	\$1,776	\$0	\$1,368	\$0	\$0	\$0	\$0	\$0	\$0	\$66	\$0	\$0			\$4,666	\$0	\$692	\$0	\$0	\$0	\$0	\$0	\$0	\$692
<b>REIMBURSABLES</b>																mileage, plots, copies, etc.	\$150	115%			\$173								115%	\$0
<b>TIME AND EXPENSES BUDGET SUBTOTAL</b>																					\$4,839								\$692	
<b>SUBCONSULTANT MARKUP 15%</b>																					\$0								15%	\$104
<b>SUBTOTAL TASK E</b>																					\$4,839									\$796
<b>TOTAL TASK E (all disciplines) =</b>	\$5,634																													
<b>Total Labor (Tasks C through E)</b>	\$824	\$18,200	\$342	\$7,384	\$0	\$0	\$20,091	\$1,358	\$18,468	\$666	\$0	\$6,348	\$9,964	\$0	\$174	\$1,518	\$0	\$0			\$87,615	\$900	\$10,726	\$16,758	\$0	\$8,360	\$0	\$17,290	\$1,520	\$55,554
<b>Total Reimbursibles (Tasks C-E)</b>																					\$4,888									\$350
<b>Total Subconsultant Markup @15% (Tasks C-E)</b>																					\$0									\$8,386
<b>Total Cost Proposal by Discipline (Tasks C-E)</b>																					\$92,503									\$64,290
<b>TOTAL TASKS C-E (all disciplines)</b>	=	\$156,792																												
<b>Grand Total</b>	=	\$156,792																												