# Appendix H Alternative Costs

## Homer Intersections Planning Study

## Sterling Highway and Pioneer Avenue Roundabout

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10/25/2005 15:59			1		
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
REMOVALS					
Remove Existing Curb	630	LF	\$9 00	\$5,670	
Unclassified Excavation	3900	CY	\$12.00	\$46,800	
Remove parking meters	0		\$250.00	\$0	
Remove Existing Guardrail	1 0	1	\$3 00	\$0	
Remove Existing Pavement	2150		\$8.00	\$17,200	
Remove Sidewalk	720		\$7.00	\$5,040	
INSTALLATIONS			4,7,55	\$3,010	
THAT A LICE A DO		_			
Fill Material (Subgrade, Borrow A)	3900		\$20.00	\$78,000	
Asphalt	430	1	\$120.00	\$51,600	]
Base Course	430		\$35 00	\$15,050	
Sidewalk / Pathway	800		\$30.00	\$24,000	
Curb & Gutter	1850		\$20.00	\$37,000	
Curb Ramp	6	EA	\$900 00	\$5,400	
Concrete Apron	450		\$90 00	\$40,500	
Culvert, 24"	100	1	\$45.00	\$4,500	
Inlet	3	EA.	\$3,000.00	\$9,000	
TRAFFIC CONTROL					
Retaining Wall	300	SF	\$150.00	\$45,000	
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000.00	\$0	
New Electrolier	4	EA	\$10,000.00	\$40,000	
New Load Center	1	EA	\$7,000 00	\$7,000	
Relocated Controller/Foundations	0	EΑ	\$7,500.00	\$0	
New Controller/Foundation	0	EA	\$25,000.00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	0	EA	\$1,100.00	\$0	
Loop Detectors	0	EA	\$1,200.00	\$0	
New Traffic Signal Wiring	. 0	EA	\$7,500 00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000.00	\$0	·
New Conduit w/wiring	0	LF	\$30 00	\$0	
Remove Pole & Foundation	0	EA	\$2,000.00	\$0	
Signing	27	EA	\$800.00	\$21,600	
Striping	1000	LF	\$2 00	\$2,000	
Preformed Symbols	12	EA	\$600.00	\$7,200	
OTHER					
Erosion/Pollution Control		LS	All Req'd	\$4,630	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd		15% of pay items
Construction Surveying		LS	All Req'd	\$27,750	6% of pay items
Mobilization/Demobilization		LS	All Req'd		13% of pay items
CONSTRUCTION CONTRACT COST			Subtotal	\$624,450	
UTILITIES					
Utility Preliminary Design	1	LS	All Reg'd	\$5,000	
Gas Line Relocate	0	LS	\$1,500.00	\$0	
Underground Telephone Relocate	0	LS	\$3,500 00	\$0	
Underground Cable Relocate	300	LF	\$100.00	\$30,000	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	ان	EA	\$15,000 00	\$0 I	
Sewerline Relocate	ől	LF	\$150.00	\$0	
Overhead Electric Relocate	2	LS	\$50,000.00	\$100,000	
			ilities Subtotal	\$135,000	
COST ESTIMATE SUMMARY		<u> </u>	ATTORES, O'ADTORES		
Reconnaissaince Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$62,000	•
Right-of-Way	1	LS	\$600,000 00	\$600,000	
Utilities		LS	All Req'd	\$135,000	
Construction	j	LS		\$624,000	
Contract Administration		LS	'@ 15%	\$204,000	
ICAP		LS	@5 5% of all		İ
Intersection	-;2;2;2;2;2;2;2;2;2;2;2;2;2;2;2;2;2;2;2	22.00			
	r yvr i litr		18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in kulone neu paregeret tetetat tit tilbe. T	Est Design/Construction Costs
Sterling Highway and Pioneer Avenue Roun	dabout	ŀ	Total:	04.040.	(Includes 15% Contingency)
		<u>l</u>	_ =	41,000,700	

Homer Intersections Planning Study							
Sterling Highway and Pioneer Avenue Signalization							
10/25/2005 15:59	Tarrican	Terin	1		·/·····		
Work REMOVALS	Quantity	Unit	Unit Cost	Total Cost	Remarks		
Remove Existing Curb	340	1	\$9.00	\$3,060			
Unclassified Excavation	420	1	\$12.00	\$5,040			
Remove parking meters	0		\$250.00	\$0			
Remove Existing Guardrail Remove Existing Pavement	20		\$3.00 \$8.00	\$0 \$160			
Remove Existing Favement Remove Sidewalk	190		\$7.00	\$1,330			
INSTALLATIONS	170	51	\$7.00	\$1,550			
Eill Matarial (Calamata Dawa a A)	450	_	#20.00	#0.000			
Fill Material (Subgrade, Borrow A) Asphalt	450 110	I	\$20 00 \$120.00	\$9,000	I .		
Base Course	110	1	\$35.00	\$13,200 \$3,850	I .		
Sidewalk / Pathway	300	1	\$30.00	\$9,000			
Curb & Gutter	640		\$20 00	\$12,800			
Curb Ramp	6		\$900 00	\$5,400			
End Section	0	EA	\$500.00	\$0			
Culvert, 24"	20	LF	\$45 00	\$900			
Inlet	1	EA	\$3,000.00	\$3,000			
TRAFFIC CONTROL							
Relocated Signal Pole, Foundation	0	EA	\$5,000.00	\$0			
Relocated Electroliers	1	EA	\$3,000.00	\$3,000	1		
New Electrolier	0	EA	\$10,000.00	\$0			
New Load Center	1	EA	\$7,000.00	\$7,000			
Relocated Controller/Foundations	0	EA	\$7,500.00	\$0			
New Controller/Foundation	1	EA	\$25,000.00	\$25,000			
Relocate Traffic Structure Support	0	EA	\$50,000.00	\$0			
New Junction Boxes	13	EA	\$1,100.00	\$14,300			
Loop Detectors New Traffic Signal Wiring	23	EA EA	\$1,200.00	\$27,600			
New Signal Pole, Heads, Signs	4	EA	\$7,500.00 \$35,000.00	\$7,500 \$140,000			
New Conduit w/wiring	2000	LF	\$30.00	\$60,000			
Remove Pole & Foundation	0	EA	\$2,000.00	\$0			
Signing	8	EA	\$800.00	\$6,400			
Striping	1000	LF	\$2.00	\$2,000			
Preformed Symbols	. 8	EA	\$600.00	\$4,800			
OTHER							
Erosion/Pollution Control		LS	All Req'd		1% of pay items		
Field Office Traffic Maintenance		LS	All Req'd	\$0	1.00		
Construction Surveying		LS LS	All Req'd		15% of pay items		
Mobilization/Demobilization		LS	All Req'd All Req'd	\$21,860 \$47,360	6% of pay items 13% of pay items		
CONSTRUCTION CONTRACT COST			Subtotal	\$491,850	1370 of pay items		
UTILITIES							
Utility Preliminary Design	1	LS	All Req'd	\$5,000			
Gas Line Relocate	0	LS	\$1,500.00	\$3,000			
Underground Telephone Relocate	0	LS	\$3,500.00	\$0 \$0			
Underground Electric Relocate	ő	LF	\$5.10	\$0			
Hydrant Relocate	0	EA	\$15,000.00	\$0			
Sewerline Relocate	0	LF	\$150.00	\$0			
Overhead Electric Relocate	1	LS	\$50,000.00	\$50,000			
		$\cdots \mathbf{U}$	tilities Subtotal	\$55,000			
COST ESTIMATE SUMMARY							
Reconnaissaince Study		LS	All Req'd	\$0			
Preliminary Design		LS	All Reg'd	\$49,000			
Right-of-Way	1	LS	\$15,000.00	\$15,000			
Utilities	]	LS	All Req'd	\$55,000			
Construction		LS	~	\$492,000			
Contract Administration		LS	<u>'@15%</u>	\$84,000			
ICAP		LS	@5.5% of all				
Intersection:			<u> </u>				
rithdrommidite 1977,				16 - 16 - 16 - 16 - 16 - 16 - 16 - 16 -	Est Design/Construction Costs		
Sterling Highway and Pioneer Avenue Signa	lization		Total:	~~~~	(Includes 15% Contingency)		
Sterning ringulary and Figure Avenue Signa			rotal.	⊕1⊅⊅ç⊈JU	(metados 1570 Contingoney)		

Homer Intersections Planning Study							
Sterling Highway and Main Street Roundabout							
10/25/2005 15:59	Two services	Figure 1	Triagonia				
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks		
REMOVALS							
Remove Existing Curb	800	LF	\$9 00	\$7,200			
Unclassified Excavation	4150	CY	\$12 00	\$49,800			
Remove parking meters	0	EA	\$250.00	\$0			
Remove Existing Guardrail	0	LF	\$3.00	\$0			
Remove Existing Pavement	2800		\$8.00	\$22,400			
Remove Sidewalk INSTALLATIONS	320	SY	\$7.00	\$2,240			
Retaining Wall	3000	SF	\$150 00	Ø450.000			
Fill Material (Subgrade, Borrow A)	4150	Ion	\$20 00	\$450,000 \$83,000			
Asphalt	775	Ton	\$120 00	\$93,000			
Base Course	775	Ton	\$35.00	\$27,130			
Sidewalk / Pathway	800	LF	\$30.00	\$24,000			
Curb & Gutter	1850	LF	\$20 00	\$37,000			
Curb Ramp	8	EA	\$900 00	\$7,200			
Concrete Apron	450	SY	\$90.00	\$40,500			
Culvert, 24"	200	LF	\$45.00	\$9,000			
Inlet	6	EA	\$3,000.00	\$18,000			
TRAFFIC CONTROL							
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0			
Relocated Electroliers	0	EA	\$3,000 00	\$0	İ		
New Electrolier	4	EA	\$10,000.00	\$40,000	·		
New Load Center	0	EΑ	\$7,000.00	\$0			
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0			
New Controller/Foundation	0	EA	\$25,000 00	\$0			
Relocate Traffic Structure Support	0	EA	\$50,000.00	\$0			
New Junction Boxes	0	EA	\$1,100.00	\$0			
Loop Detectors	0	EA	\$1,200.00	\$0			
New Traffic Signal Wiring	0	EA EA	\$7,500 00	\$0			
New Signal Pole, Heads, Signs New Conduit w/wiring		LF	\$35,000.00 \$30.00	\$0			
Remove Pole & Foundation	0	EA	\$2,000 00	\$0 \$0			
Signing	36	EA	\$400.00	\$14,400			
Striping	1000	LF	\$2.00	\$2,000			
Preformed Symbols	16	EA	\$600.00	\$9,600			
OTHER							
Erosion/Pollution Control		LS	All Reg'd	00.260	1% of pay items		
Field Office		LS	All Req'd	\$9,300	176 of pay nems		
Traffic Maintenance		LS	All Reg'd	\$140,470	15% of pay items		
Construction Surveying		LS	All Reg'd	\$56,190	6% of pay items		
Mobilization/Demobilization		LS	All Req'd	\$121,740	13% of pay items		
CONSTRUCTION CONTRACT COST			Subtotal	\$1,264,230			
UTILITIES							
Utility Preliminary Design	1	LS	All Reg'd	\$7,500			
Gas Line Relocate	0	LS	\$1,500 00	\$0			
Underground Telephone Relocate	1	LS	\$20,000 00	\$20,000			
Underground Electric Relocate	0	LF	\$5.10	\$0			
Hydrant Relocate	0	EΑ	\$15,000.00	\$0			
Sewerline Relocate	0	LF .	\$150 00	\$0			
Overhead Electric Relocate	2	LS	\$50,000.00	\$100,000			
COST ESTIMATE SUMMARY		::::::U	tilities Subtotal	\$127,500			
Reconnaissaince Study		LS	All Reg'd	\$0			
Preliminary Design		LS	All Req'd	\$126,000			
Right-of-Way	<sub>1</sub> [	LS	\$200,000.00	\$200,000			
Utilities	1	LS	All Reg'd	\$127,500			
Construction		LS	1 **	\$1,264,000			
Contract Administration	l	LS	'@ 15%	\$239,000			
ICAP		LS	@5 5% of all	*			
Intersection		10000	14(4)4(4)4(4)4(4)4(4)4(4)4				
TANKA MARANA					Est Design/Construction Costs		
Sterling Highway and Main Street Round	about		Total:	^ ^ ^ ^ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	(Includes 15% Contingency)		

### **Homer Intersections** Planning Study Sterling Highway and Main Street Signalization 10/25/2005 15:59 Work Quantity Unit Unit Cost Total Cost Remarks REMOVALS Remove Existing Curb 920 LF \$9 00 \$8,280 Unclassified Excavation CY \$12.00 30 \$360 Remove parking meters 0 EΑ \$250.00 \$0 Remove Existing Guardrail 0 LF \$3.00 \$0 Remove Existing Pavement 400 SY\$8 00 \$3,200 Remove Sidewalk 230 SY\$7.00 \$1,610 INSTALLATIONS Retaining Wall SF \$75 00 \$0 Fill Material (Subgrade, Borrow A) 30 Ion \$20.00 \$600 Asphalt 40 \$120.00 Ion \$4,800 Base Course \$35 00 Ton \$0 Sidewalk / Pathway 200 \$30 00 LF \$6,000 Curb & Gutter 920 LF \$20.00 \$18,400 Curb Ramp EΑ \$900.00 \$7,200 End Section 0 EA \$500 00 \$0 Culvert, 24" 0 LF \$45 00 \$0 Inlet 0 \$3,000.00 EA \$0 TRAFFIC CONTROL Relocated Signal Pole, Foundation ΕA \$5,000.00 \$0 \$3,000 00 Relocated Electroliers 0 EΑ \$0 New Electrolier 0 EA \$10,000 00 \$0 New Load Center EΑ \$7,000.00 \$7,000 Relocated Controller/Foundations \$7,500.00 EΑ \$0 New Controller/Foundation EA \$25,000 00 \$25,000 Relocate Traffic Structure Support 0 EΑ \$50,000 00 \$0 New Junction Boxes 16 EΑ \$1,100.00 \$17,600 Loop Detectors \$1,200 00 28 EΑ \$33,600 New Traffic Signal Wiring EΑ \$7,500 00 \$7,500 New Signal Pole, Heads, Signs 4 EΑ \$35,000.00 \$140,000 New Conduit w/wiring 1500 LF \$30.00 \$45,000 Remove Pole & Foundation \$2,000.00 ΕA \$0 Signing 8 EΑ \$800 00 \$6,400 Striping 1000 LF \$2.00 \$2,000 Preformed Symbols EA \$600 00 \$4,800 OTHER Erosion/Pollution Control LS All Req'd \$3,390 1% of pay items Field Office LS All Req'd \$0 Traffic Maintenance LS All Req'd \$50,900 15% of pay items Construction Surveying LS All Req'd \$20,360 6% of pay items Mobilization/Demobilization LS All Reg'd \$44,120 13% of pay items CONSTRUCTION CONTRACT COST Subtotal \$458,120 UTILITIES Utility Preliminary Design LS All Req'd \$0 Gas Line Relocate LS \$1,500 00 \$0 Underground Telephone Relocate \$3,500.00 LS \$0 LF Underground Electric Relocate \$5.10 \$0 Hydrant Relocate \$15,000 00 EA \$0 Sewerline Relocate LF \$150 00 \$0 Overhead Electric Relocate LS \$75,000.00 \$0 Utilities Subtotal \$0 COST ESTIMATE SUMMARY Reconnaissaince Study LS All Req'd \$0 Preliminary Design LS All Req'd \$46,000 Right-of-Way \$1,800 LS \$1,800.00 Utilities LS All Req'd \$0 Construction LS \$458,000 LS Contract Administration ' @ 15% \$69,000 LS **ICAP** @5.5% of all Intersection Est. Design/Construction Costs Sterling Highway and Main Street Signalization Total: **\$661,020** (Includes 15% Contingency)

Homer Intersections Planning Study							
Sterling Highway and Heath Street Roundabout 10/25/2005 15:59							
Work	10 in interior	TT	Unit Cost	Total Cost	Parada		
REMOVALS	Quantity	Unii	Unit Cost	Lotal Cost	Remarks		
Remove Existing Curb	700		\$9 00	\$6,300			
Unclassified Excavation	4150	1	\$12.00	\$49,800			
Remove parking meters	0		\$250.00	\$0			
Remove Existing Guardrail	0		\$3 00	\$0			
Remove Existing Pavement	2000		\$8.00	\$16,000			
Remove Sidewalk INSTALLATIONS	300	SY	\$7.00	\$2,100			
INSTALLEATIONS							
Retaining Wall	1000	SF	\$150.00	\$150,000			
Fill Material (Subgrade, Borrow A)	4150		\$20.00	\$83,000			
Asphalt	775	Ion	\$120 00	\$93,000			
Base Course	775	Ton	\$35 00	\$27,130			
Sidewalk / Pathway	800	LF	\$30 00	\$24,000			
Curb & Gutter	1850	LF	\$20.00	\$37,000			
Curb Ramp	8	EA	\$900 00	\$7,200			
Concrete Apron	450	SY	\$90 00	\$40,500			
Culvert, 24"	200	LF	\$45 00	\$9,000			
Inlet	2	EA	\$3,000.00	\$6,000			
TRAFFIC CONTROL							
Relocated Signal Pole, Foundation	0	ΕA	\$5,000.00	\$0			
Relocated Electroliers	0	EA	\$3,000 00	\$0			
New Electrolier	4	EA	\$10,000.00	\$40,000			
New Load Center	0	ΕA	\$7,000.00	\$0			
Relocated Controller/Foundations	0	EΑ	\$7,500.00	\$0			
New Controller/Foundation	0	EA	\$25,000 00	\$0			
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0			
New Junction Boxes	0	EΑ	\$1,100.00	\$0			
Loop Detectors	0	EΑ	\$1,200.00	\$0			
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0			
New Signal Pole, Heads, Signs	0	EΑ	\$35,000 00	\$0			
New Conduit w/wiring	0	LF	\$30.00	\$0			
Remove Pole & Foundation	0	EA	\$2,000.00	\$0			
Signing	36	EA	\$400.00	\$14,400			
Striping	1000		\$2 00	\$2,000			
Preformed Symbols	16	EA	\$600.00	\$9,600			
OTHER							
		T 0					
Erosion/Pollution Control		LS	All Req'd		1% of pay items		
Field Office		LS	All Req'd	\$0			
Traffic Maintenance		LS	All Req'd	\$92,550	15% of pay items		
Construction Surveying		LS	All Req'd	\$37,020	6% of pay items		
Mobilization/Demobilization CONSTRUCTION CONTRACT COST		LS	All Req'd	\$80,210	13% of pay items		
UTILITIES			Subtotal	\$832,980			
•							
Utility Preliminary Design	0	LS	All Req'd				
Gas Line Relocate	0	LS	\$1,500.00	\$0			
Underground Telephone Relocate		LS	\$40,000 00	\$40,000			
Underground Electric Relocate	0	LF	\$5 10	\$0			
Hydrant Relocate	0	EA	\$15,000.00	\$0			
Sewerline Relocate	0	LF	\$150.00	\$0			
Overhead Electric Relocate	0	LS	\$150,000.00	\$0			
COST ESTIMATE SUMMARY			tilities Subtotal	\$40,000			
Reconnaissaince Study	<b> </b>	LS	All Req'd	\$0			
Preliminary Design		LS	All Reg'd	\$83,000			
Right-of-Way	1	LS	\$225,000.00	\$225,000			
Utilities	1	LS	All Req'd	\$40,000			
Construction		LS		\$833,000			
Contract Administration		LS	'@ 15%	\$165,000			
ICAP	1	LS	@5 5% of all	Ψ100,000			
			O. 27.1 31 mil				
Intersection							
			7D 4 *		Est Design/Construction Costs		
Sterling Highway and Heath Street Round		l	Total:	\$1,547,900	(Includes 15% Contingency)		
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## Homer Intersections Planning Study

Sterling Highway and Heath Street Signalization

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Work REMOVALS	Quantity	Unit	Unit Cost	Total Cost	Remarks
Remove Existing Curb	920		\$9 00	\$8,280	
Unclassified Excavation	30	CY	\$12 00	\$360	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3.00	\$0	
Remove Existing Pavement	400		\$8.00	\$3,200	
Remove Sidewalk	230	SY	\$7.00	\$1,610	
INSTALLATIONS					
Retaining Wall	0	SF	\$75 00	\$0	
Fill Material (Subgrade, Borrow A)	30	Ton	\$20 00	\$600	
Asphalt	40	Ton	\$120.00	\$4,800	
Base Course	0	Ion	\$35.00	\$0	
Sidewalk / Pathway	200	LF	\$30 00	\$6,000	
Curb & Gutter	920	LF	\$20 00	\$18,400	
Curb Ramp	8	EA	\$900 00	\$7,200	
End Section	0	EA	\$500.00	\$0	
Culvert, 24"	0	LF	\$45.00	\$0	
Inlet	0	EA	\$3,000.00	\$0	
TRAFFIC CONTROL			1		
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	0	ΕA	\$10,000.00	\$0	
New Load Center	1	EA	\$7,000 00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	1	EA	\$25,000.00	\$25,000	
Relocate Traffic Structure Support	0	EA	\$50,000.00	\$0	
New Junction Boxes	16	EA	\$1,100 00	\$17,600	
Loop Detectors	28	EA	\$1,200 00	\$33,600	
New Traffic Signal Wiring	1	EA	\$7,500.00	\$7,500	
New Signal Pole, Heads, Signs	4	EA	\$35,000.00	\$140,000	
New Conduit w/wiring	1500	LF	\$30.00	\$45,000	-
Remove Pole & Foundation	0	EΑ	\$2,000 00	\$0	
Signing	8	EΑ	\$800.00	\$6,400	
Striping	1000	LF	\$2.00	\$2,000	
Preformed Symbols	8	EA	\$600 00	\$4,800	
OTHER					
Erosion/Pollution Control		LS	All Reg'd	\$3,390	1% of pay items
Field Office		LS	All Reg'd	\$3,390 \$0	176 of pay items
Traffic Maintenance		LS	All Req'd		15% of pay items
Construction Surveying		LS	All Req'd		6% of pay items
Mobilization/Demobilization		LS	All Reg'd		13% of pay items
CONSTRUCTION CONTRACT COST			Subtotal	\$458,120	1370 of pay terms
UTILITIES	4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.		, , , , guotoria, , , ,	······································	
	_	TO	A 11 D 1 1	**	
Utility Preliminary Design Gas Line Relocate	0	LS	All Req'd	\$0	
	0	LS	\$1,500 00	\$0	
Underground Electric Polecate	0	LS	\$3,500.00	\$0	
Underground Electric Relocate	0	LF	\$5.10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate Overhead Electric Relocate	0	LF LS	\$150.00	\$0	
Gverneau Electre Relocate	0		\$75,000.00 tilities Subtotal	\$0 \$0	
COST ESTIMATE SUMMARY			mucs savata	,p,o,·,	
Pecannaissainea Study		Te	All Doold	40	
Reconnaissaince Study Preliminary Design		LS	All Req'd	\$0	
, ,	,	LS	All Req'd	\$46,000	
Right-of-Way Utilities	1	LS	\$10,000.00	\$10,000	
Construction		LS	All Req'd	\$0	
Construction Contract Administration	l	LS	1 (2) 150/	\$458,000	
ICAP	- [	LS LS	@ 15% @5.5% of all	\$70,000	
Intersection					Ent Paris (On the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Control of the State Contro
Sterling Highway and Heath Street Signali	zation		Total:	A C = 4 C A A	Est Design/Construction Costs (Includes 15% Contingency)
Sterming Fright ay and Freath Street Signan				φυ/ <b>1,000</b>	(merades 1570 Contingency)

### **Homer Intersections** Planning Study Sterling Highway and Lake Street Roundabout 10/25/2005 15:59 Work: Quantity Unit Unit Cost Total Cost Remarks REMOVALS Remove Existing Curb 2000 LF \$9.00 \$18,000 Unclassified Excavation 1600 CY\$12.00 \$19,200 Remove parking meters EΑ \$250 00 \$0 Remove Existing Guardrail LF \$3 00 \$0 Remove Existing Pavement 2500 SY \$20,000 \$8.00 Remove Sidewalk 1200 SY \$7.00 \$8,400 INSTALLATIONS Fill Material (Subgrade, Borrow A) 1600 \$20.00 Ion \$32,000 Asphalt 1100 Ion \$120 00 \$132,000 Base Course 1100 \$35 00 \$38,500 Ton Sidewalk / Pathway 1200 \$30.00 LF \$36,000 Curb & Gutter 2300 LF \$20.00 \$46,000 Curb Ramp EΑ \$900.00 \$5,400 Concrete Apron 575 SY \$90 00 \$51,750 Culvert, 24" 300 LF \$45.00 \$13,500 Inlet EA \$3,000.00 \$12,000 TRAFFIC CONTROL Relocated Signal Pole, Foundation EA \$5,000 00 \$0 Relocated Electroliers 0 \$3,000 00 EA \$0 New Electrolier FΑ \$10,000.00 \$40,000 New Load Center EΑ \$7,000.00 \$7,000 Relocated Controller/Foundations 0 EΑ \$7,500.00 \$0 New Controller/Foundation EΑ \$25,000 00 \$0 Relocate Traffic Structure Support 0 EΑ \$50,000.00 \$0 New Junction Boxes \$1,100.00 EΑ \$0 Loop Detectors \$1,200 00 EA \$0 New Traffic Signal Wiring \$7,500 00 EA \$0 New Signal Pole, Heads, Signs EΑ \$35,000.00 \$0 New Conduit w/wiring LF \$30.00 \$0 Remove Pole & Foundation \$2,000.00 EA \$6,000 Signing 27 EΑ \$800 00 \$21,600 Striping 1000 LF \$2 00 \$2,000 Preformed Symbols 12 \$600.00 EΑ \$7,200 Signal Heads, Ped Heads LS \$20,000.00 \$0 OTHER Erosion/Pollution Control LS All Req'd \$5,170 1% of pay items Field Office LS All Req'd All Req'd Traffic Maintenance LS \$77,480 15% of pay items Construction Surveying LS All Req'd \$30,990 6% of pay items Mobilization/Demobilization LS All Req'd \$67,150 13% of pay items CONSTRUCTION CONTRACT COST: Subtotal \$697.340 UTILITIES Utility Preliminary Design LS All Reg'd Gas Line Relocate \$1,500 00 0 LS \$0 Underground Telephone Relocate 125 LF \$100 00 \$12,500 Underground Electric Relocate 230 LF \$100.00 \$23,000 Hydrant Relocate \$15,000 00 0 ΕA \$0 Sewerline Relocate LF \$150 00 \$0 Overhead Electric Relocate \$150,000.00 \$0 Utilities Subtotal \$35,500 COST ESTIMATE SUMMARY Reconnaissaince Study LS All Req'd \$0 Preliminary Design LS \$70,000 All Req'd Right-of-Way LS \$50,000.00 \$0 Utilities LS All Reg'd \$35,500 Construction LS \$697,000 Contract Administration LS ' @ 15% \$110,000 **ICAP** LS @5.5% of all

Total:

Intersection:

Sterling Highway and Lake Street Roundabout

Est Design/Construction Costs

\$1,049,375 (Includes 15% Contingency)

### Homer Intersections Planning Study Sterling Highway and Lake Street Signalization 10/25/2005 15:59 Work Quantity Unit Unit Cost Total Cost Remarks REMOVALS Remove Existing Curb 250 LF \$9.00 \$2,250 Unclassified Excavation 510 CY \$12.00 \$6,120 Remove parking meters EΑ \$250 00 \$0 Remove Existing Guardrail 0 LF \$3 00 \$0 Remove Existing Pavement 600 SY \$8.00 \$4,800 Remove Sidewalk SY\$7.00 \$0 INSTALLATIONS Fill Material (Subgrade, Borrow A) 750 Ton \$20.00 \$15,000 Asphalt 120 Ton \$120.00 \$14,400 Base Course 200 Ton \$35.00 \$7,000 Sidewalk / Pathway 720 \$30 00 LF \$21,600 Curb & Gutter 1540 LF \$20 00 \$30,800 Curb Ramp \$900.00 \$5,400 EΑ End Section 0 EA \$500.00 \$0 Culvert, 24' 0 LF \$45.00 \$0 Inlet EΑ \$3,000.00 \$3,000 TRAFFIC CONTROL Relocated Signal Pole, Foundation \$5,000 00 EΑ \$0 0 \$3,000.00 Relocated Electroliers EA \$0 New Electrolier 0 EΑ \$10,000.00 \$0 New Load Center EΑ \$7,000.00 \$7,000 Relocated Controller/Foundations 0 \$7,500 00 EΑ \$0 New Controller/Foundation EΑ \$25,000 00 \$25,000 Relocate Traffic Structure Support EA \$50,000.00 New Junction Boxes EΑ \$1,100.00 \$12,100 11 Loop Detectors 19 \$1,200 00 EΑ \$22,800 New Traffic Signal Wiring EΑ \$7,500 00 \$7,500 New Signal Pole, Heads, Signs 0 EΑ \$35,000.00 \$0 New Conduit w/wiring 700 LF \$30.00 \$21,000 Remove Pole & Foundation 0 ΕA \$2,000.00 \$0 Signing 10 EA \$800 00 \$8,000 1000 Striping LF \$2 00 \$2,000 Preformed Symbols 10 \$600.00 EΑ \$6,000 Signal Heads, Ped Heads LS \$20,000.00 \$20,000 OTHER Erosion/Pollution Control LS All Reg'd \$2,420 1% of pay items Field Office LS All Reg'd Traffic Maintenance LS All Reg'd \$36,270 15% of pay items Construction Surveying LS All Req'd \$14,510 6% of pay items Mobilization/Demobilization LS All Req'd \$31,430 13% of pay items CONSTRUCTION CONTRACT COST Subtotal \$326,400 UTILITIES Utility Preliminary Design LS All Reg'd Gas Line Relocate 0 LS \$1,500.00 \$0 Underground Telephone Relocate 0 LS \$3,500.00 \$0 Underground Electric Relocate LF \$5 10 \$0 Hydrant Relocate \$15,000 00 \$0 0 EΑ Sewerline Relocate LF \$150.00 \$0 Overhead Electric Relocate \$150,000.00 \$0 Utilities Subtotal \$0 COST ESTIMATE SUMMARY Reconnaissaince Study LS All Reg'd \$0 Preliminary Design LS All Req'd \$33,000 Right-of-Way LS \$10,000 00 \$0 All Req'd Utilities LS \$0 Construction LS \$326,000 Contract Administration LS ' @ 15% \$49,000 **ICAP** LS @5.5% of all

Total:

Intersection

Sterling Highway and Lake Street Signalization

Est. Design/Construction Costs

**\$469,200** (Includes 15% Contingency)

Homer Intersections Planning Study							
Sterling Highway and Kachemak Bay Drive Roundabout							
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks		
REMOVALS	*	·					
Remove Existing Curb		LF	\$9 00	\$0			
Unclassified Excavation	3900		\$12 00	\$46,800			
Remove parking meters			\$250.00	\$10,000			
Remove Existing Guardrail			\$3.00	\$0			
Remove Existing Pavement	1850	SY	\$8 00	\$14,800			
Remove Sidewalk	100	SY	\$7.00	\$700			
INSTALLATIONS							
Fill Material (Subgrade, Borrow A)	3900	Ion	\$20.00	\$78,000			
Asphalt	775		\$120.00	\$93,000			
Base Course	775		\$35 00	\$27,130	1		
Sidewalk / Pathway	750		\$30 00	\$22,500			
Curb & Gutter	1900	LF	\$20 00	\$38,000			
Curb Ramp	6	EA	\$900.00	\$5,400			
Concrete Apron	450	SY	\$90.00	\$40,500			
Culvert, 24"	300	LF	\$45 00	\$13,500			
Inlet	3	EA	\$3,000.00	\$9,000			
TRAFFIC CONTROL							
Relocated Signal Pole, Foundation	0	EA	\$5,000.00	\$0			
Relocated Electroliers	0	EA	\$3,000.00	\$0			
New Electrolier	4	ΕA	\$10,000 00	\$40,000			
New Load Center	0	EΑ	\$7,000.00	\$0			
Relocated Controller/Foundations	0	EA	\$7,500.00	\$0			
New Controller/Foundation	0	EA	\$25,000.00	\$0			
Relocate Traffic Structure Support	0	EΑ	\$50,000 00	\$0			
New Junction Boxes	0	EΑ	\$1,100.00	\$0	•		
Loop Detectors	0	EA	\$1,200.00	\$0			
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0			
New Signal Pole, Heads, Signs	0	EA	\$35,000.00	\$0			
New Conduit w/wiring	0	LF	\$30.00	\$0			
Remove Pole & Foundation	0	EA	\$2,000.00	\$0			
Signing	27	EA	\$800 00	\$21,600			
Striping Proformed Symbols	1000	LF	\$2.00	\$2,000			
Preformed Symbols Signal Heads, Ped Heads	12	EA	\$600.00	\$7,200			
Signal fleads, Fed fleads	"	LS	\$20,000 00	\$0			
OTHER							
Erosion/Pollution Control		LS	All Reg'd	\$4,600	1% of pay items		
Field Office		LS	All Req'd	\$4,000	176 of pay items		
Traffic Maintenance		LS	All Req'd		15% of pay items		
Construction Surveying		LS	All Reg'd		6% of pay items		
Mobilization/Demobilization		LS	All Reg'd	\$59,820	13% of pay items		
CONSTRUCTION CONTRACT COST			Subtotal	\$621,180			
UTILITIES							
Utility Preliminary Design	0	LS	All Reg'd				
Gas Line Relocate	0	LS	\$1,500.00	\$0			
Underground Telephone Relocate	550	LF	\$100.00	\$55,000			
Underground Electric Relocate	0	LF	\$100 00	\$0			
Hydrant Relocate	ő	EA	\$15,000.00	\$0			
Sewerline Relocate	0	LF	\$150.00	\$0			
Overhead Electric Relocate	0	LS	\$150,000.00	\$0			
		U	tilities Subtotal	\$55,000			
COST ESTIMATE SUMMARY							
Reconnaissaince Study		τς.	Atl Doold	ΦO			
Preliminary Design		LS LS	All Req'd All Req'd	\$0 \$62,000			
Right-of-Way	1	LS	\$50,000.00	\$62,000 \$50,000			
Utilities	1	LS	All Reg'd	\$55,000			
Construction		LS	An Kequ	\$621,000			
Contract Administration		LS	'@ 15%	\$109,000			
ICAP		LS	@5.5% of all	Ψ102,000			
Intersection:		·····]					
		l	on 4 •	M4 004 ==0	Est Design/Construction Costs		
Sterling Highway and Kachemak Bay Drive Ro	oundabout		Total:	\$1,031,550	(Includes 15% Contingency)		
			والمراج الجراج والجراج والجراج والجراج والجراج والجراج	de la recentraria de la recentraria de la referencia de la la composición de la composición de la composición	56		

Homer Intersections Planning Study							
Sterling Highway and Kachemak Bay Drive Signalization 10/25/2005 15:59							
Work	Quantity	Tion	Unit Cost	Total Cost	Remarks		
REMOVALS	Quantity	Oin	VI CHIE COST.	Total Cost	Kemarks		
Domovo Evictina Chul			<b>#</b> 0.00	400			
Remove Existing Curb Unclassified Excavation	550		\$9.00 \$12.00	\$0	l e		
Remove parking meters	330	1	\$250.00	\$6,600 \$0			
Remove Existing Guardrail	Ĭ		\$3.00	\$0			
Remove Existing Pavement	350	•	\$8.00	\$2,800			
Remove Sidewalk	150	1	\$7.00	\$1,050			
INSTALLATIONS							
Fill Material (Subgrade, Borrow A)	800	Ton	\$20 00	\$16,000			
Asphalt	210	1	\$120 00	\$25,200			
Base Course	200	1	\$35.00	\$7,000			
Sidewalk / Pathway	0		\$30 00	\$0			
Curb & Gutter	750	LF	\$20 00	\$15,000			
Curb Ramp	4	EA	\$900.00	\$3,600			
End Section	0	EA	\$500 00	\$0			
Culvert, 24"	300	LF	\$45 00	\$13,500			
Inlet TDA FEIG CONTROL	3	EA	\$3,000.00	\$9,000			
TRAFFIC CONTROL							
Relocated Signal Pole, Foundation	0	EA	\$5,000.00	\$0			
Relocated Electroliers	0	EA	\$3,000.00	\$0			
New Electrolier	0	EA	\$10,000.00	\$0			
New Load Center	1	EA	\$7,000.00	\$7,000			
Relocated Controller/Foundations New Controller/Foundation	0	EA	\$7,500.00	\$0			
Relocate Traffic Structure Support	0	EA EA	\$25,000.00 \$50,000.00	\$25,000 \$0			
New Junction Boxes	14	EA	\$1,100.00	\$15,400			
Loop Detectors	17	EA	\$1,200.00	\$20,400			
New Traffic Signal Wiring	1	EA	\$7,500.00	\$7,500			
New Signal Pole, Heads, Signs	3	EA	\$35,000.00	\$105,000			
New Conduit w/wiring	1800	LF	\$30.00	\$54,000			
Remove Pole & Foundation	0	EΑ	\$2,000.00	\$0			
Signing	10	EA	\$800.00	\$8,000			
Striping	1000	LF	\$2.00	\$2,000			
Preformed Symbols	4	EA	\$600.00	\$2,400			
OTHER							
Exacion/Dollution Control		1.0	A 11 Th 1.1	<b>#2.460</b>	104 5		
Erosion/Pollution Control Field Office		LS LS	All Req'd		1% of pay items		
Traffic Maintenance		LS	All Req'd All Req'd	\$0 \$51,970	15% of pay items		
Construction Surveying		LS	All Req'd	\$20,790	6% of pay items		
Mobilization/Demobilization		LS	All Req'd	\$45,040	13% of pay items		
CONSTRUCTION CONTRACT COST			Subtotal	\$467.710	Established to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco		
UTILITIES							
Utility Preliminary Design	0	LS	All Reg'd				
Gas Line Relocate	ő	LS	\$1,500.00	\$0			
Underground Telephone Relocate	700	LF	\$100.00	\$70,000			
Underground Electric Relocate	0	LF	\$5.10	\$0			
Hydrant Relocate	0	EA	\$15,000.00	\$0			
Sewerline Relocate	0	LF	\$150.00	\$0			
Overhead Electric Relocate	0	LS	\$150,000.00	\$0			
COCT POTEMACE CHARLES		U	tilities Subtotal	\$70,000			
COST ESTIMATE SUMMARY					į		
Reconnaissaince Study		LS	All Req'd	\$0	[		
Preliminary Design		LS	All Req'd	\$47,000	·		
Right-of-Way	0	LS	\$0.00	\$0			
Utilities		LS	All Req'd	\$70,000			
Construction		LS		\$468,000			
Contract Administration		LS	' @ 15%	\$81,000	-		
ICAP		LS	@5.5% of all				
Intersection:		12,122	0-0-0-0-1-1-1-1-1-0-0-1-1-1-0-0-				
		1			Est Design/Construction Costs		
Sterling Highway and Kachemak Bay Drive Sig	nalization	ļ	Total:	O = < = O O O	(Includes 15% Contingency)		
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Homer Intersections Planning Study							
Pioneer Avenue and Heath Street Channelization							
10/25/2005 15:59	<del> </del>	η		·			
Work	Quantity	Uni	t Unit Cost	Total Cost	Remarks		
REMOVALS							
Remove Existing Curb	530	LF	\$9.00	\$4,770			
Unclassified Excavation	640						
Remove parking meters	0	EA	\$250.00	\$0			
Remove Existing Guardrail	0		\$3.00	\$0			
Remove Existing Pavement	20		\$8.00	\$160			
Remove Sidewalk INSTALLATIONS	340	SY	\$7.00	\$2,380			
INSTALLATIONS					·		
Fill Material (Subgrade, Borrow A)	640	Ton	\$20 00	\$12,800			
Asphalt	80	Ton	\$120 00	\$9,600			
Base Course	80	Ton	\$35.00	\$2,800			
Sidewalk / Pathway	450		\$30 00	\$13,500			
Curb & Gutter	450	1	\$20 00	\$9,000			
Curb Ramp	4	EA	\$900.00	\$3,600			
End Section	0		\$500.00	\$0			
Culvert, 24"	0	LF	\$45 00	\$0			
Inlet TRAFFIC CONTROL	0	EA	\$3,000.00	\$0			
		_					
Relocated Signal Pole, Foundation	0	1	\$5,000.00	\$0			
Relocated Electroliers	0	EA	\$3,000.00	\$0			
New Electrolier	0	EA	\$10,000.00	\$0			
New Load Center	0	EA	\$7,000.00	\$0	·		
Relocated Controller/Foundations New Controller/Foundation	0	EA	\$7,500.00	\$0			
Relocate Traffic Structure Support	0 0	EA EA	\$25,000.00	\$0			
New Junction Boxes	0	EA	\$50,000.00 \$1,100.00	\$0 \$0			
Loop Detectors	Ö	EA	\$1,200.00	\$0			
New Traffic Signal Wiring	ő	EA	\$7,500.00	\$0			
New Signal Pole, Heads, Signs	ľ	EA	\$35,000.00	\$0			
New Conduit w/wiring	ĺ	LF	\$30.00	\$0			
Remove Pole & Foundation	0	EA	\$2,000.00	\$0			
Signing	4	EA	\$800.00	\$3,200			
Striping	800	LF	\$2.00	\$1,600			
Preformed Symbols	2	EA	\$600.00	\$1,200			
OTHER							
Erosion/Pollution Control		LS	All Reg'd	\$720	10/ -6		
Field Office		LS	All Req'd		1% of pay items		
Traffic Maintenance		LS	All Req'd	\$0 \$10,840	15% of pay items		
Construction Surveying		LS	All Req'd	\$4.340	6% of pay items		
Mobilization/Demobilization		LS	All Req'd	\$9,400	13% of pay items		
CONSTRUCTION CONTRACT COST			Subtotal	\$97,590			
UTILITIES							
Utility Preliminary Design	0	LS	All Reg'd				
Gas Line Relocate	0	LS	\$1,500.00	\$0			
Underground Telephone Relocate	200	LF	\$100.00	\$20,000			
Underground Electric Relocate	0	LF	\$5.10	\$0			
Hydrant Relocate	0	EA	\$15,000.00	\$0			
Sewerline Relocate	0	LF	\$150.00	\$0			
Overhead Electric Relocate	0	LS	\$150,000.00	\$0			
COST ESTIMATE SUMMARY	-1-1-1-1-1-1-1-1-1-1-1	<u>:::::U</u>	tilities Subtotal	\$20,000			
Reconnaissaince Study		LS	All Req'd	\$0			
Preliminary Design	,	LS	All Req'd	\$10,000			
Right-of-Way Utilities	1	LS	\$30,000.00	\$30,000			
Construction	į	LS LS	All Req'd	\$20,000 \$98,000	i		
Contract Administration	İ	LS	' @ 15%	\$98,000			
ICAP		LS	@5.5% of all	\$22,000			
ntersection:  Pioneer Avenue and Heath Street Channel	zation		Total:	\$207,000	Est Design/Construction Costs (Includes 15% Contingency)		
Pioneer Avenue and Heath Street Channel			I VIAI.	\$4U/;UUU	(merudes 1370 Contingency)		

### Homer Intersections Planning Study Pioneer Avenue and Lake Street Roundabout 10/25/2005 15:59 Work: Quantity Unit Unit Cost Total Cost Remarks REMOVALS Remove Existing Curb 660 LF \$9.00 \$5,940 Unclassified Excavation 3400 CY \$12.00 \$40,800 Remove parking meters EΑ \$250.00 \$0 Remove Existing Guardrail LF \$3.00 \$0 Remove Existing Pavement 2000 SY\$8 00 \$16,000 Remove Sidewalk 590 SY \$4,130 \$7.00 INSTALLATIONS Retaining Wall SF 1500 \$150.00 \$225,000 Fill Material (Subgrade, Borrow A) 3400 \$20.00 Ton \$68,000 Asphalt 720 \$120 00 Ton \$86,400 Base Course 720 Ton \$35 00 \$25,200 Sidewalk / Pathway 1300 \$30.00 \$39,000 LF Curb & Gutter 2500 LF \$20.00 \$50,000 Curb Ramp EA \$900 00 \$7,200 Concrete Apron 450 SY \$90 00 \$40,500 Culvert, 24" 600 LF \$45 00 \$27,000 Inlet \$3,000.00 \$18,000 EA TRAFFIC CONTROL Relocated Signal Pole, Foundation EA \$5,000.00 0 \$0 Relocated Electroliers EΑ \$3,000.00 \$0 New Electrolier \$10,000 00 \$60,000 EA New Load Center EΑ \$7,000 00 \$7,000 Relocated Controller/Foundations EA \$7,500.00 \$0 New Controller/Foundation 0 EΑ \$25,000.00 \$0 Relocate Traffic Structure Support EΑ \$50,000 00 \$0 New Junction Boxes 0 EA \$1,100 00 \$0 Loop Detectors 0 EΑ \$1,200.00 \$0 New Traffic Signal Wiring 0 EΑ \$7,500.00 \$0 New Signal Pole, Heads, Signs 0 EA \$35,000 00 \$0 New Conduit w/wiring 0 LF \$30 00 \$0 Remove Pole & Foundation 0 EΑ \$2,000.00 \$0 Signing 40 \$400 00 \$16,000 EΑ Striping 1500 LF \$2 00 \$3,000 Preformed Symbols EA \$600.00 16 \$9,600 OTHER Erosion/Pollution Control LS All Req'd \$7,490 1% of pay items All Reg'd Field Office LS \$0 Traffic Maintenance LS All Reg'd \$112,320 15% of pay items Construction Surveying LS All Req'd \$44,930 6% of pay items Mobilization/Demobilization LS All Reg'd \$97,340 13% of pay items CONSTRUCTION CONTRACT COST \$1,010,850 Subtotal UTILITIES Utility Preliminary Design 0 LS All Req'd Gas Line Relocate 0 LS \$1,500.00 \$0 Underground Telephone Relocate 350 LF \$100 00 \$35,000 Underground Electric Relocate LF \$5 10 \$0 Hydrant Relocate \$15,000.00 EΑ \$0 Sewerline Relocate 0 LF \$150.00 \$0 Overhead Electric Relocate LS \$150,000.00 \$0 Utilities Subtotal \$35,000 COST ESTIMATE SUMMARY Reconnaissaince Study LS All Req'd \$0 Preliminary Design LS All Req'd \$101,000 Right-of-Way LS \$600,000.00 \$600,000 Utilities LS All Req'd \$35,000 Construction LS \$1,011,000 LS Contract Administration ' @ 15% \$247,000 **ICAP** LS @5.5% of all Intersection Est. Design/Construction Costs

Total:

Pioneer Avenue and Lake Street Roundabout

\$2,293,100 (Includes 15% Contingency)

Homer Intersections Planning Study							
Pioneer Avenue and Lake Street Signalization							
10/25/2005 15:59		<del>.</del>					
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks		
REMOVALS							
Remove Existing Curb	680	LF	\$9.00	\$6,120			
Unclassified Excavation	3624		\$12.00	\$43,490			
Remove parking meters	0	1	\$250.00	\$0			
Remove Existing Guardrail	Ĭ	1	\$3.00	\$0			
Remove Existing Pavement	180		\$8.00	\$1,440			
Remove Sidewalk	290		\$7.00	\$2,030			
INSTALLATIONS	1		\$7,00	Ψ2,030			
		_					
Fill Material (Subgrade, Borrow A)	3624	1	\$20 00	\$72,480			
Asphalt	640	ı	\$120.00	\$76,800			
Base Course	640	Ion	\$35.00	\$22,400			
Sidewalk / Pathway	1220	1	\$30 00	\$36,600			
Curb & Gutter	1220	LF	\$20 00	\$24,400			
Curb Ramp	8	EA	\$900 00	\$7,200			
End Section	0	EA	\$500.00	\$0			
Culvert, 24"	20	LF	\$45.00	\$900			
Inlet	1	EA	\$3,000.00	\$3,000			
TRAFFIC CONTROL							
Relocated Signal Pole, Foundation	1 0	EA	\$5,000.00	\$0			
Relocated Electroliers		EA	\$3,000.00	\$0			
New Electrolier	2	EA	\$10,000.00	\$20,000			
New Load Center	1	EA	\$7,000.00				
Relocated Controller/Foundations	0	1		\$7,000			
	0	EA	\$7,500.00	\$0	·		
New Controller/Foundation	1 0	EA	\$25,000.00	\$25,000			
Relocate Traffic Structure Support	0	EA	\$50,000.00	\$0			
New Junction Boxes	16	EA	\$1,100.00	\$17,600			
Loop Detectors	40	EA	\$1,200.00	\$48,000			
New Traffic Signal Wiring	!	EA	\$7,500.00	\$7,500			
New Signal Pole, Heads, Signs	4	EA	\$35,000 00	\$140,000			
New Conduit w/wiring	2000	LF	\$30.00	\$60,000			
Remove Pole & Foundation	0	EA	\$2,000.00	\$0			
Signing	12	EA	\$800.00	\$9,600			
Striping	1500	LF	\$2.00	\$3,000			
Preformed Symbols	8	EA	\$600.00	\$4,800			
OTHER							
Empire /Dellesties Centual		T C	A 11 D1.1	<b>\$7.200</b>	10/ 6 2		
Erosion/Pollution Control		LS	All Req'd		1% of pay items		
Field Office		LS	All Req'd	\$0			
Traffic Maintenance		LS	All Req'd		15% of pay items		
Construction Surveying		LS	All Req'd		6% of pay items		
Mobilization/Demobilization		LS	All Reg'd		13% of pay items		
CONSTRUCTION CONTRACT COST			Subtotal	\$863,130			
UTILITIES							
Utility Preliminary Design	0	LS	All Req'd				
Gas Line Relocate	0	LS	\$1,500.00	\$0			
Underground Telephone Relocate	360	LF	\$100.00	\$36,000			
Underground Electric Relocate	0	LF	\$5.10	\$0			
Hydrant Relocate	0	EA	\$15,000.00	\$0			
Sewerline Relocate	ol	LF	\$150.00	\$0			
Overhead Electric Relocate	0	LS	\$150,000.00	\$0			
			tilities Subtotal	\$36,000			
COST ESTIMATE SUMMARY				<u> </u>			
Pagannaissainaa Study		τς.	A 11 To a =1.4	øn.			
Reconnaissaince Study		LS	All Req'd	\$0			
Preliminary Design		LS	All Req'd	\$86,000			
Right-of-Way	1	LS	\$400,000.00	\$400,000			
Utilities		LS	All Req'd	\$36,000			
Construction		LS		\$863,000			
Contract Administration		LS	(@ 15%	\$195,000			
ICAP		LS	@5.5% of all				
ntersection:					: Ligar tan tan tan tan tigar tan tan tan tan tan tan tan tan tan tan		
MARKAMANARAMAN COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS COLORS C			and the	n in the second of the second of the second	Est Design/Construction Costs		
Pioneer Avenue and Lake Street Signaliz	ation		Total:	~4 ~4 — ~ ~ ~	(Includes 15% Contingency)		
Tionect Avenue and Lake Street Signanz			AUtale	Ψ1,01/,000			

Homer Intersections Planning Study							
East End Road and Fairview Avenue Channelization 10/25/2005 15:59							
Work	Ougntity	Linis	Unit Cost	Total Cost	Remarks		
REMOVALS	Quantity	Citi	oni Cost	Iotal Cost	Atmarks		
	200	1 -	40.00	62 700			
Remove Existing Curb Unclassified Excavation	300 200		\$9 00 \$12.00	\$2,700			
Remove parking meters	200	1	\$250.00	\$2,400 \$0			
Remove Existing Guardrail	Ö		\$3.00	\$0			
Remove Existing Pavement	50		\$8 00	\$400			
Remove Sidewalk	100	SY	\$7.00	\$700			
INSTALLATIONS							
Fill Material (Subgrade, Borrow A)	400	Ton	\$20 00	\$8,000			
Asphalt	95	1	\$120 00	\$11,400			
Base Course	95	Ton	\$35.00	\$3,330			
Sidewalk / Pathway	150	LF	\$30.00	\$4,500			
Curb & Gutter	400	ı	\$20.00	\$8,000			
Curb Ramp	2	EA	\$900 00	\$1,800			
End Section	0	EA	\$500 00	\$0			
Culvert, 24" Inlet	50	LF EA	\$45 00 \$3,000.00	\$2,250 \$3,000			
TRAFFIC CONTROL	<u> </u>	EA	\$3,000.00	\$3,000			
·			05,000,00				
Relocated Signal Pole, Foundation Relocated Electroliers	0	EA	\$5,000.00	\$0			
New Electrolier	0	EA EA	\$3,000.00 \$10,000.00	\$0 \$0			
New Load Center		EA	\$7,000.00	\$0			
Relocated Controller/Foundations	0	EA	\$7,500.00	\$0			
New Controller/Foundation	0	EA	\$25,000.00	\$0			
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0			
New Junction Boxes	0	EA	\$1,100 00	\$0			
Loop Detectors	0	EA	\$1,200.00	\$0			
New Traffic Signal Wiring	0	EA	\$7,500.00	\$0			
New Signal Pole, Heads, Signs New Conduit w/wiring	0 0	EA LF	\$35,000 00 \$30 00	\$0 \$0			
Remove Pole & Foundation	0	EA	\$2,000.00	\$0			
Signing Signing	4	EA	\$800.00	\$3,200			
Striping	500	LF	\$2.00	\$1,000			
Preformed Symbols	4	EA	\$600 00	\$2,400			
OTHER							
Erosion/Pollution Control		LS	All Reg'd	\$550	1% of pay items		
Field Office		LS	All Req'd	\$0			
Traffic Maintenance		LS	All Req'd		15% of pay items		
Construction Surveying		LS	All Req'd	\$3,300	6% of pay items		
Mobilization/Demobilization		LS	All Req'd	\$7,160	13% of pay items		
CONSTRUCTION CONTRACT COST.		<u> </u>	Subtotal	\$74,350			
		_					
Utility Preliminary Design	0	LS	All Req'd				
Gas Line Relocate Cable Television Relocate	0	LS	\$1,500.00	\$0			
Underground Telephone Relocate	1	LS LS	\$20,000 00 \$20,000 00	\$20,000 \$20,000			
Underground Electric Relocate	0	LF	\$20,000 00	\$20,000			
Hydrant Relocate	ő	EA.	\$15,000.00	\$0			
Sewerline Relocate	0	LF	\$150 00	\$0			
Overhead Electric Relocate	0	LS	\$50,000.00	\$0			
COST ESTIMATE SUMMARY		Ü	tilities Subtotal	\$40,000			
			A 11 TO 1.1	**			
Reconnaissaince Study Preliminary Design		LS LS	All Req'd All Req'd	\$0 \$7,000			
Right-of-Way	0	LS	\$5,688.00	\$7,000 \$0			
Utilities	۷	LS	All Reg'd	\$40,000			
Construction		LS	1 ~	\$74,000			
Contract Administration		LS	'@ 15%	\$17,000			
ICAP		LS	@5.5% of all				
Intersection			 				
<u>impesections</u>					Fot Design/Construction Contr		
East End Road and Fairview Avenue Chann	elization		Total:	~ ~ - ~ ~	Est Design/Construction Costs (Includes 15% Contingency)		
2007 2110 21010 And 1 and 11017 117 Citate Citatin			- V	9100,700			

## Homer Intersections Planning Study

## East End Road and East Hill Road Roundabout

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10/23/2003 15:39 Work	Quantity	Unit	Unit Cost	Total Cost	Remarks		
REMOVALS	1						
Remove Existing Curb	2500	LF	\$9.00	\$22,500			
Unclassified Excavation	4500	i	\$12.00	\$54,000			
Remove parking meters	0	EA	\$250.00	\$0			
Remove Existing Guardrail	0	LF	\$3 00	\$0			
Remove Existing Pavement	2200	SY	\$8 00	\$17,600			
Remove Sidewalk	550	SY	\$7.00	\$3,850			
INSTALLATIONS							
Retaining Wall	1000	SF	\$150 00	\$150,000			
Fill Material (Subgrade, Borrow A)	4500	Ion	\$20 00	\$90,000			
Asphalt	1000	Ton	\$120 00	\$120,000			
Base Course	1000	Ion	\$35 00	\$35,000			
Sidewalk / Pathway	960	LF	\$30 00	\$28,800			
Curb & Gutter	2600		\$20.00	\$52,000			
Curb Ramp	6	EA	\$900.00	\$5,400			
Concrete Apron	450		\$90.00	\$40,500			
Culvert, 24"	200	LF	\$45.00	\$9,000			
Inlet	4	EA	\$3,000.00	\$12,000			
TRAFFIC CONTROL							
Relocated Signal Pole, Foundation	0	EA	\$5,000.00	\$0			
Relocated Electroliers	0	EA	\$3,000.00	\$0			
New Electrolier	4	EA	\$10,000 00	\$40,000			
New Load Center	1	EA	\$7,000 00	\$7,000			
Relocated Controller/Foundations	0	EA	\$7,500.00	\$0	·		
New Controller/Foundation	0	EA.	\$25,000.00	\$0			
Relocate Traffic Structure Support	0	EA	\$50,000.00	\$0			
New Junction Boxes	0	EA	\$1,100.00	\$0			
Loop Detectors	0	EA	\$1,200.00	\$0			
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0			
New Signal Pole, Heads, Signs	0	EA	\$35,000.00	\$0			
New Conduit w/wiring	0	LF EA	\$30.00 \$2,000.00	\$0 \$0			
Remove Pole & Foundation Signing	27	EA	\$2,000.00	\$21,600			
Striping Striping	800	LF	\$2.00	\$1,600	·		
Preformed Symbols	12	EA	\$600.00	\$7,200			
OTHER							
Erosion/Pollution Control		LS	All Req'd		1% of pay items		
Field Office		LS	All Req'd	\$0	1504 6		
Traffic Maintenance		LS	All Req'd All Req'd		15% of pay items		
Construction Surveying Mobilization/Demobilization		LS LS			6% of pay items 13% of pay items		
CONSTRUCTION CONTRACT COST		ro Lo	All Req'd ::: Subtotal	\$95,330	13% of pay items		
UTILITIES		<u> </u>	Subtotal		[		
		- ~					
Utility Preliminary Design	0	LS	All Req'd				
Gas Line Relocate	0	LS	\$1,500.00	\$0			
Cable Television Relocate	360	LF	\$100.00	\$36,000			
Underground Telephone Relocate	400	LF	\$100 00	\$40,000			
Underground Electric Relocate Hydrant Relocate	0	LF EA	\$5 10 \$15,000.00	\$0 \$0			
Sewerline Relocate	0	LF	\$15,000.00	\$0 \$0			
Overhead Electric Relocate		LS	\$70,000.00	\$70,000			
			tilities Subtotal	\$146,000			
COST ESTIMATE SUMMARY							
Reconnaissaince Study		LS	All Reg'd	\$0			
Preliminary Design		LS	All Reg'd	\$97,000			
Right-of-Way	1	LS	\$400.000.00	\$400,000			
Utilities	1	LS	All Reg'd	\$146,000			
Construction		LS	7.11.1004.0	\$969,000			
Contract Administration		LS	'@ 15%	\$227,000			
ICAP		LS	@5 5% of all	,			
Intersection:							
		(TD. 4 T	A 44 4 A MA	Est Design/Construction Costs			
East End Road and East Hill Road Round		Total:	\$2,114,850	(Includes 15% Contingency)			

### Homer Intersections Planning Study East End Road and East Hill Road Signalization 10/25/2005 15:59 Work Quantity Unit Unit Cost Total Cost Remarks REMOVALS Remove Existing Curb 290 LF \$9 00 \$2,610 Unclassified Excavation \$12.00 \$4,920 410 CY Remove parking meters EA \$250.00 \$0 Remove Existing Guardrail \$3.00 0 LF \$0 Remove Existing Pavement 100 SY \$8.00 \$800 Remove Sidewalk 15 SY \$7.00 \$110 INSTALLATIONS Fill Material (Subgrade, Borrow A) \$20 00 530 Ton \$10,600 \$120 00 Asphalt 130 Ton \$15,600 Base Course \$35 00 110 \$3,850 Ton Sidewalk / Pathway \$30 00 \$12,300 410 LF Curb & Gutter 650 LF \$20.00 \$13,000 Curb Ramp \$900.00 \$1,800 2 EA End Section EΑ \$500.00 \$0 Culvert, 24' 30 \$1,350 LF \$45.00 Inlet EA \$3,000.00 \$6,000 TRAFFIC CONTROL Relocated Signal Pole, Foundation EA \$5,000 00 \$0 Relocated Electroliers 0 \$3,000 00 \$0 EA New Electrolier 0 FΑ \$10,000.00 \$0 New Load Center EΑ \$7,000.00 \$7,000 Relocated Controller/Foundations 0 \$7,500.00 EA \$0 New Controller/Foundation EΑ \$25,000.00 \$25,000 \$50,000 00 Relocate Traffic Structure Support 0 EΑ \$0 \$1,100 00 \$15,400 New Junction Boxes 14 ΕA Loop Detectors 19 EA \$1,200.00 \$22,800 New Traffic Signal Wiring \$7,500.00 \$7,500 EA New Signal Pole, Heads, Signs 3 ΕA \$35,000 00 \$105,000 New Conduit w/wiring 1500 LF \$30 00 \$45,000 Remove Pole & Foundation EA \$2,000 00 0 \$0 Signing 6 EA \$800.00 \$4,800 Striping 800 LF \$2.00 \$1,600 Preformed Symbols \$600.00 EΑ \$3,600 OTHER Erosion/Pollution Control LS All Req'd \$3,110 1% of pay items Field Office LS All Req'd Traffic Maintenance LS All Req'd \$46,600 | 15% of pay items Construction Surveying LS All Reg'd \$18,640 6% of pay items Mobilization/Demobilization All Reg'd LS \$40,380 13% of pay items CONSTRUCTION CONTRACT COST Subtotal: \$419.370 UTILITIES Utility Preliminary Design LS All Req'd Gas Line Relocate LS \$1,500 00 \$0 LS \$30,000 Cable Television Relocate \$30,000.00 Underground Telephone Relocate LS \$30,000.00 \$30,000 Underground Electric Relocate 0 LF \$5 10 \$0 Hydrant Relocate \$15,000 00 \$0 0 EΑ Sewerline Relocate LF \$150 00 \$0 Overhead Electric Relocate LS \$50,000.00 \$50,000 Utilities Subtotal \$110,000 COST ESTIMATE SUMMARY Reconnaissaince Study LS All Req'd LS All Req'd Preliminary Design \$42,000 Right-of-Way LS \$20,000.00 \$20,000 Utilities LS All Req'd \$110,000 Construction LS \$419,000 Contract Administration LS '@ 15% \$82,000 **ICAP** LS @5.5% of all Intersection:

Total:

East End Road and East Hill Road Signalization

Est Design/Construction Costs

\$773.950 (Includes 15% Contingency)

### Homer Intersections Planning Study **Pioneer Avenue Pedestrian Crossings** 10/25/2005 15:59 Work Quantity Unit Unit Cost Total Cost Remarks REMOVALS Remove Existing Curb 800 LF \$9.00 \$7,200 Unclassified Excavation CY \$12 00 \$0 Remove parking meters EΑ \$250.00 \$0 0 Remove Existing Guardrail LF \$3.00 \$0 Remove Existing Pavement 1600 SY\$8.00 \$12,800 Remove Sidewalk 0 SY \$7.00 \$0 INSTALLATIONS Fill Material (Subgrade, Borrow A) Ton \$20 00 \$0 Asphalt 300 \$120 00 Ton \$36,000 Base Course Ton \$35.00 \$0 Sidewalk / Pathway 160 LF \$30.00 \$4,800 Curb & Gutter 1200 LF \$20.00 \$24,000 Curb Ramp EΑ \$900 00 \$7,200 End Section 0 EA \$500 00 \$0 Culvert, 24" LF \$45.00 \$0 Inlet \$3,000.00 EA \$0 TRAFFIC CONTROL Relocated Signal Pole, Foundation EΑ \$5,000.00 n \$0 Relocated Electroliers \$3,000 00 0 EΑ \$0 New Electrolier 0 EA \$10,000 00 \$0 0 New Load Center \$7,000.00 EΑ \$0 Relocated Controller/Foundations EA \$7,500 00 \$0 New Controller/Foundation 0 EA \$25,000 00 \$0 Relocate Traffic Structure Support 0 EΑ \$50,000.00 \$0 New Junction Boxes 0 EΑ \$1,100.00 \$0 0 \$1,200.00 Loop Detectors EA \$0 New Traffic Signal Wiring 0 EA \$7,500.00 \$0 0 New Signal Pole, Heads, Signs EA \$35,000.00 \$0 New Conduit w/wiring 0 LF \$30.00 \$0 Remove Pole & Foundation 0 EA \$2,000 00 \$0 Signing 16 EA \$800 00 \$12,800 Striping 1600 LF \$2.00 \$3,200 Preformed Symbols EΑ \$600.00 OTHER Erosion/Pollution Control LS All Req'd \$1,080 1% of pay items Field Office LS All Req'd Traffic Maintenance LS All Reg'd \$16,200 15% of pay items Construction Surveying LS All Reg'd \$6,480 6% of pay items Mobilization/Demobilization LS All Req'd \$14,040 13% of pay items CONSTRUCTION CONTRACT COST Subtotal \$145,800 UTILITIES Utility Preliminary Design LS All Reg'd LS Gas Line Relocate 0 \$1,500.00 \$0 Cable Television Relocate 0 LS \$30,000.00 \$0 Underground Telephone Relocate 0 LS \$30,000 00 \$0 Underground Electric Relocate 0 LF \$0 \$5.10 Hydrant Relocate EΑ \$15,000.00 0 \$0 Sewerline Relocate LF 0 \$150 00 \$0 Overhead Electric Relocate 0 LS \$50,000.00 20 Utilities Subtotal \$0 COST ESTIMATE SUMMARY LS Reconnaissaince Study All Req'd \$0 Preliminary Design LS All Req'd \$15,000 Right-of-Way \$10,000.00 LS \$0 Utilities LS All Req'd \$0 Construction LS \$146,000 Contract Administration LS ' @ 15% \$22,000 **ICAP** LS @5.5% of all Intersection: Est. Design/Construction Costs Pioneer Avenue Pedestrian Crossings Total: **\$210,450** (Includes 15% Contingency)

Homer Intersections Planning Study								
Sterling Highway Pedestrian Crossings								
10/25/2005 15:59								
Work	Quantity	Uni	t Unit Cost	Total Cost	Remarks			
REMOVALS								
Remove Existing Curb	200	LF	\$9 00	\$1,000				
Unclassified Excavation	200		\$12.00	\$1,800 \$0				
Remove parking meters	Ĭ		\$250.00	\$0				
Remove Existing Guardrail		LF	\$3 00	\$0				
Remove Existing Pavement	400		\$8.00	\$3,200				
Remove Sidewalk	0		\$7.00	\$0				
INSTALLATIONS		i		*				
Fill Motorial (Culture de Derray, A)		_	#20.00					
Fill Material (Subgrade, Borrow A) Asphalt	75		\$20 00	\$0				
Base Course	0	Ton Ton	\$120 00 \$35.00	\$9,000				
Sidewalk / Pathway	40		\$30.00	\$0 \$1,200				
Curb & Gutter	300	LF	\$20.00	\$6,000				
Curb Ramp	2	1	\$900 00	\$1,800				
End Section	0	EA	\$500.00	\$1,800				
Culvert, 24"	0	LF	\$45 00	\$0	1			
Inlet	0	1	\$3,000.00	\$0				
TRAFFIC CONTROL			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Relocated Signal Pole, Foundation		ЕА	\$5,000,00	60				
Relocated Signal Pole, Foundation Relocated Electroliers	0	EA	\$5,000.00 \$3,000.00	\$0				
New Electrolier	0	EA EA	\$10,000 00	\$0				
New Load Center	0	EA	\$7,000.00	\$0 \$0				
Relocated Controller/Foundations	0	EA	\$7,000.00	\$0				
New Controller/Foundation		EA	\$25,000.00	\$0				
Relocate Traffic Structure Support	l ő.	EA	\$50,000.00	\$0				
New Junction Boxes	0	ΕA	\$1,100 00	\$0				
Loop Detectors	0	EA	\$1,200.00	\$0				
New Traffic Signal Wiring	o o	EA	\$7,500.00	\$0				
New Signal Pole, Heads, Signs	0	EΑ	\$35,000 00	\$0				
New Conduit w/wiring	l 0	LF	\$30.00	\$0				
Remove Pole & Foundation	0	EA	\$2,000.00	\$0				
Signing	4	ΕA	\$800.00	\$3,200				
Striping	400	LF	\$2.00	\$800	· ·			
Preformed Symbols	0	EΑ	\$600.00	\$0				
OTHER								
Erosion/Pollution Control		LS	All Reg'd	\$270	10/ -6			
Field Office		LS	All Req'd	\$270 \$0	1% of pay items			
Traffic Maintenance		LS	All Req'd	\$4,050	15% of pay items			
Construction Surveying		LS	All Reg'd	\$1,620	6% of pay items			
Mobilization/Demobilization		LS	All Req'd	\$3,510	13% of pay items			
CONSTRUCTION CONTRACT COST			Subtotal	\$36,450	1370 of pay floring			
UTILITIES								
Utility Preliminary Design		T C	A11 Da=14					
Gas Line Relocate	0	LS LS	All Req'd \$1,500.00	\$0				
Cable Television Relocate		LS	\$1,300.00	\$0 \$0				
Underground Telephone Relocate	ő	LS	\$30,000 00	\$0 \$0				
Underground Electric Relocate	ŏ	LF	\$50,000 00	\$0 \$0				
Hydrant Relocate	0	EA	\$15,000.00	\$0 \$0				
Sewerline Relocate	ő	LF	\$150 00	\$0				
Overhead Electric Relocate	ő	LS	\$50,000.00	\$0				
			tilities Subtotal	\$0				
COST ESTIMATE SUMMARY								
Reconnaissaince Study		LS	All Reg'd	\$0				
Preliminary Design		LS	All Reg'd	\$4,000				
Right-of-Way	0	LS	\$5,688.00	\$4,000 \$0				
Utilities	ĭ	LS	All Req'd	\$0 \$0	·			
Construction		LS		\$36,000				
Contract Administration		LS	'@ 15%	\$5,000				
ICAP		LS	@5 5% of all	4-,500				
ntaroanting.			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
Intersection:								
Sterling Highway Pedestrian Crossing	re	l	Total:	A # 4 # # A	Est Design/Construction Costs (Includes 15% Contingency)			
Joinng Inginay I cuestifat Crossing	ger [e]e[e]e,e,e,e]e,e,e,e		TULAI.	\$31,/3 <b>U</b>	(mendes 1570 Contingency)			

