

Kenmar Road Interchange Signal Concept City of Fortuna

9/16/2016 25-3247-03/2132

Construction Costs

-	Mars Description	Heite	Overtitu	Unit Coot		Total
No.	Item Description Traffic Control	Units	Quantity	Unit Cost		Total
2		LS LF	600	\$497,000.00		\$497,000.00
	Remove Metal Beam Guard Railing Remove Roadside Sign	EA	29	\$16.00 \$102.00		\$9,600.00 \$2,958.00
3	Remove Asphalt Concrete Dike	LF	4140			\$2,956.00 \$16,560.00
	Remove Concrete (Curb & Gutter)	LF LF		\$4.00		\$24,000.00
5 6	Remove Tree	EA	2400 7	\$10.00 \$1,400.00		\$9,800.00
7	Roadway Excavation	CY	7370	\$67.00		\$493,790.00
8	Class 2 Aggregate Base	CY	11350	\$70.00		\$794,500.00
9	Hot Mix Asphalt (Type A)	TON	6790	\$140.00		\$950,600.00
10	Bridge (US 101 Over Kenmar Road)	LS	1	\$4,700,000.00		\$4,700,000.00
11	Detectable Warning Surface	SQFT		\$35.00		
12	Minor Concrete (Curb)	CY	300 4	\$1,320.00		\$10,500.00 \$5,280.00
13	Minor Concrete (Curb and Gutter)	CY	149	\$806.00		\$120,427.99
14	Minor Concrete (Sidewalk)	CY	130	\$680.00		\$88,400.00
15		LS	130	\$100,000.00		
16	Storm Drain System Midwest Guard Rail System (Wood Post)	LS	440	\$100,000.00		\$100,000.00 \$35,200.00
17	Thermoplastic Traffic Stripe	LF LF	10520	\$80.00 \$1.25		\$35,200.00
18	Thermoplastic France Stripe Thermoplastic Pavement Marking	SQFT	1684	\$6.00		\$10,101.00
19	Signs	EA	45	\$350.00		\$15,750.00
20	Signal and Lighting	LS	3	\$225,000.00		\$675,000.00
21	Lighting & Electrical	LS	1	\$100,000.00		\$100,000.00
22	Planting and Irrigation	SQFT	39500	\$100,000.00		\$100,000.00
23	Mobilization	LS	39300	\$837,400.00		\$837,400.00
24	Minor/ Supplemental Items	%	25%	\$8,373,116.99		\$2,093,279.25
24		/0	23 /6	φ0,373,110.99	_	
	Subtotal (Construction Costs)			252/	\$	11,800,796.23
	Construction Contingency			25%	\$	2,950,199.06
	Total Construction Costs				\$	14,750,995.29
	Total Construction Budget (Rounded)				\$	14,751,000.00
Righ	t of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	0	\$20.00		\$0.00
2	Utility Relocation (TBD)	LS	1	\$200,000.00		\$200,000.00
	Total Right of Way (Capital) and Utility Relocati	on Cost	S	,	\$	200,000.00
	Total Project Capital Cost				\$	14,951,000.00
Dra:	ant Summert Conta					
_	ect Support Costs					
1	Project Initiation Document			TBD	-	
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$	747,600.00
3	PS&E		Con. Costs	20%	\$	2,950,200.00
4	Right of Way Engineering & Acquisition		0-Parcels	\$25k/EA	\$	-
5	Construction Support and Management		Con. Costs	15%	\$	2,212,700.00
	Total Project Support Costs				\$	5,910,500.00
	Total Estimated Project Costs				\$	20,861,500.00
	Rounded					20,870,000.00
	Nounded				Ψ	20,070,000.00

Assuptions

- 1. All new paving.
- 2. Only R/W costs are for private properties (not County, City, or State).
- 3. Bridge removal included in the cost for each bridge.

9/16/2016 R2132C001.xlsx



Kenmar Road Interchange Roundabout Concept - Option 1a City of Fortuna

9/16/2016 25-3247-03/2132

Construction Costs

No.	Struction Costs	Units	Quantity	Unit Cost		Total
1	Item Description Traffic Control	LS	Quantity 1	Unit Cost \$140,000.00		\$140,000.00
2	Remove Metal Beam Guard Railing	LF	850	\$140,000.00		\$13,600.00
3	Remove Roadside Sign	EA	29	\$102.00		\$2,958.00
4	Remove Asphalt Concrete Dike	LF	2460	\$4.00		\$9,840.00
5	Remove Concrete (Curb & Gutter)	LF	1210	\$10.00		\$12,100.00
6	Remove Tree	EA	7	\$1,400.00		\$9,800.00
7	Roadway Excavation	CY	5060	\$67.00		\$339,020.00
8	Class 2 Aggregate Base	CY	5510	\$70.00		\$385,700.00
9	Hot Mix Asphalt (Type A)	TON	3060	\$140.00		\$428,400.00
10	Detectable Warning Surface	SQFT	300	\$35.00		\$10,500.00
11	Minor Concrete (Curb)	CY	36	\$1,320.00		\$47,520.00
12	Minor Concrete (Curb - Truck Apron)	CY	47	\$1,160.00		\$54,520.00
	Minor Concrete (Curb and Gutter)	CY	187	\$806.00		\$150,722.00
14	Minor Concrete (Stamped Concrete - Truck Apron)	CY	230	\$615.00		\$141,450.00
	Minor Concrete (Sidewalk)	CY	125	\$680.00		\$85,000.00
	Storm Drain System	LS	1	\$180,000.00		\$180,000.00
17	Midwest Guard Rail System (Wood Post)	LF	820	\$80.00		\$65,600.00
18	Thermoplastic Traffic Stripe	LF	4650	\$1.25		\$5,812.50
19	Thermoplastic Pavement Marking	SQFT	1276	\$6.00		\$7,656.00
20	Signs	EA	55	\$350.00		\$19,250.00
21	Lighting & Electrical	LS	1	\$260,000.00		\$260,000.00
22	Planting and Irrigation	SQFT	13900	\$5.00		\$69,500.00
23	Mobilization	LS	1	\$229,900.00		\$229,900.00
	Minor/ Supplemental Items	%	25%	\$2,298,948.50		\$574,737.13
	Subtotal (Construction Costs)			, ,	\$	3,243,585.63
	Construction Contingency			25%		810,896.41
	Total Construction Costs			2070	\$	4,054,482.03
					\$	
	Total Construction Budget (Rounded)				Ф	4,054,500.00
Righ	t of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	3800	\$20.00		\$76,000.00
2	Utility Relocation	ALLOW	1	\$200,000.00		\$200,000.00
	Total Right of Way (Capital) and Utility Relocati	on Cost	S		\$	276,000.00
	Total Project Capital Cost				\$	4,330,500.00
						, ,
	ect Support Costs	ļ				
1	Project Initiation Document			TBD	-	
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$	216,600.00
3	PS&E		Con. Costs	20%	\$	810,900.00
4	Right of Way Engineering & Acquisition		1-Parcels	\$25k/EA	\$	25,000.00
5	Construction Support and Management		Con. Costs	15%	\$	608,200.00
	Total Project Support Costs				\$	1,660,700.00
	Total Estimated Project Coats	-			¢	5,991,200.00
-	Total Estimated Project Costs	-				
	Rounded				\$	6,000,000.00

Assuptions

- 1. All new paving.
- 2. Only R/W costs are for private properties (not County, City, or State).
- 3. Removing railroad tracks and equipment not included.

9/16/2016 R2132C002.xlsx



Kenmar Road Interchange Roundabout Concept - Option 1b City of Fortuna

9/16/2016 25-3247-03/2132

Construction Costs

	30 0000 0030	1	1			
No.	Item Description	Units	Quantity	Unit Cost		Total
1	Traffic Control	LS	1	\$140,000.00		\$140,000.00
2	Remove Metal Beam Guard Railing	LF	850	\$16.00		\$13,600.00
3	Remove Roadside Sign	EA	29	\$102.00		\$2,958.00
4	Remove Asphalt Concrete Dike	LF	2460	\$4.00		\$9,840.00
5	Remove Concrete (Curb & Gutter)	LF	1210	\$10.00		\$12,100.00
6	Remove Tree	EA	6	\$1,400.00		\$8,400.00
7	Roadway Excavation	CY	5160	\$67.00		\$345,720.00
8	Class 2 Aggregate Base	CY	5860	\$70.00		\$410,200.00
9	Hot Mix Asphalt (Type A)	TON	3270	\$140.00		\$457,800.00
10	Detectable Warning Surface	SQFT	360	\$35.00		\$12,600.00
11	Minor Concrete (Curb)	CY	26	\$1,320.00		\$34,320.00
12	Minor Concrete (Curb - Truck Apron)	CY	32	\$1,160.00		\$37,120.00
13	Minor Concrete (Curb and Gutter)	CY	192	\$806.00		\$154,752.00
14	Minor Concrete (Stamped Concrete - Truck Apron)	CY	170	\$615.00		\$104,550.00
	Minor Concrete (Sidewalk)	CY	153	\$680.00		\$104,040.00
16	Storm Drain System	LS	1	\$180,000.00		\$180,000.00
17	Midwest Guard Rail System (Wood Post)	LF	820	\$80.00		\$65,600.00
18	Thermoplastic Traffic Stripe	LF	5000	\$1.25		\$6,250.00
19	Thermoplastic Pavement Marking	SQFT	1578	\$6.00		\$9,468.00
20	Signs	EA	40	\$350.00		\$14,000.00
21	Lighting & Electrical	LS	1	\$220,000.00		\$220,000.00
22	Planting and Irrigation	SQFT	10300	\$5.00		\$51,500.00
23	Mobilization	LS	1	\$225,500.00		\$225,500.00
24	Minor/ Supplemental Items	%	25%	\$2,254,818.00		\$563,704.50
	Subtotal (Construction Costs)				\$	3,184,022.50
	Construction Contingency			25%	\$	796,005.63
	Total Construction Costs				\$	3,980,028.13
	Total Construction Budget (Rounded)				\$	3,980,100.00
Riak	Langle Lan					
1	Right Of Way	SQFT	0	\$20.00		\$0.00
2	Utility Relocation	ALLOW	1	\$200,000.00		\$200,000.00
	Total Right of Way (Capital) and Utility Relocati	_		Ψ200,000.00	\$	200,000.00
	Total Right of Way (Capital) and Othity Relocati	UII COSI	s 		Ψ	200,000.00
	Total Project Capital Cost				\$	4,180,100.00
					Ť	-,,
Proj	ect Support Costs					
1	Project Initiation Document			TBD	-	
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$	209,100.00
3	PS&E		Con. Costs	20%	\$	796,100.00
4	Right of Way Engineering & Acquisition		0-Parcels	\$25k/EA	\$	-
5	Construction Support and Management		Con. Costs	15%	\$	597,100.00
	Total Project Support Costs				\$	1,602,300.00
	, ,				Ė	
	Total Estimated Project Costs				\$	5,782,400.00
	Rounded				•	5,790,000.00
	INDUITUEU				Ψ	3,130,000.00

Assuptions

- 1. All new paving.
- 2. Only R/W costs are for private properties (not County, City, or State).
- 3. Removing railroad tracks and equipment not included.

9/16/2016 R2132C011.xlsx



Kenmar Road Interchange Roundabout Concept - Option 2 City of Fortuna

9/16/2016 25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost		Total
1	Traffic Control	LS	1	\$182,000.00		\$182,000.00
2	Remove Metal Beam Guard Railing	LF	850	\$16.00		\$13,600.00
3	Remove Roadside Sign	EA	29	\$102.00		\$2,958.00
4	Remove Asphalt Concrete Dike	LF	2450	\$4.00		\$9,800.00
5	Remove Concrete (Curb & Gutter)	LF	1200	\$10.00		\$12,000.00
6	Remove Tree	EA	7	\$1,400.00		\$9,800.00
7	Roadway Excavation	CY	5510	\$67.00		\$369,170.00
8	Class 2 Aggregate Base	CY	6590	\$70.00		\$461,300.00
9	Hot Mix Asphalt (Type A)	TON	3770	\$140.00		\$527,800.00
10	Retaining Wall	LS	1	\$635,000.00		\$635,000.00
11	Detectable Warning Surface	SQFT	420	\$35.00		\$14,700.00
	Minor Concrete (Curb)	CY	16	\$1,320.00		\$21,120.00
	Minor Concrete (Curb - Truck Apron)	CY	32	\$1,160.00		\$37,120.00
14	Minor Concrete (Curb and Gutter)	CY	133	\$806.00		\$107,198.00
	Minor Concrete (Stamped Concrete - Truck Apron)	CY CY	170	\$615.00		\$104,550.00
	Minor Concrete (Sidewalk)		139	\$680.00		\$94,520.00
17 18	Storm Drain System Midwest Guard Rail System (Wood Post)	LS LF	990	\$180,000.00 \$80.00		\$180,000.00 \$79,200.00
19	Thermoplastic Traffic Stripe	LF	6180	\$1.25		\$7,725.00
20	Thermoplastic Pavement Marking	SQFT	1151	\$6.00		\$6,906.24
21	Signs	EA	50	\$350.00		\$17,500.00
22	Lighting & Electrical	LS	1	\$260,000.00		\$260,000.00
	Planting and Irrigation	SQFT	14100	\$5.00		\$70,500.00
	Mobilization	LS	1	\$304,300.00		\$304,300.00
	Minor/ Supplemental Items	%	25%	\$3,042,467.24		\$760,616.81
	Subtotal (Construction Costs)			, , ,	\$	4,289,384.05
	Construction Contingency			25%	\$	1,072,346.01
	Total Construction Costs				\$	5,361,730.06
	Total Construction Budget (Rounded)				\$	5,361,800.00
					*	
Righ	nt of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	0	\$20.00		\$0.00
2	Utility Relocation	ALLOW	1	\$200,000.00		\$200,000.00
	Total Right of Way (Capital) and Utility Relocati	on Cost	<u> </u>		\$	200,000.00
	Total Project Capital Cost				\$	5,561,800.00
Proj	ect Support Costs					
1	Project Initiation Document			TBD	-	
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$	278,100.00
	PS&E		Con. Costs	20%	\$	1,072,400.00
4	Right of Way Engineering & Acquisition		0-Parcels	\$25k/EA	\$	<u>-</u>
5	Construction Support and Management		Con. Costs	15%	\$	804,300.00
	Total Project Support Costs				\$	2,154,800.00
	Total Estimated Project Costs				\$	7,716,600.00
	Rounded				\$	7,720,000.00

Assuptions

- All new paving
- 2. Only R/W costs are for private properties (not County, City, or State).
- 3. Removing railroad tracks and equipment not included.

9/16/2016 R2132C003.xlsx



Preliminary Opinion of Costs (Capital & Support) 12th Street Interchange Signal Concept

City of Fortuna

9/16/2016 25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost		Total
1	Traffic Control	LS	1	\$672,000.00		\$672,000.00
2	Remove Roadside Sign	EA	35	\$102.00		\$3,570.00
3	Remove Concrete Sidewalk	SQFT	1970	\$4.50		\$8,865.00
4	Remove Concrete (Curb & Gutter)	LF	4500	\$10.00		\$45,000.00
5	Roadway Excavation	CY	13950	\$67.00		\$934,650.00
6	Embankment	CY	9334	\$25.00		\$233,350.00
7	Class 2 Aggregate Base	CY	22250	\$70.00		\$1,557,500.00
8	Hot Mix Asphalt (Type A)	TON	13190	\$140.00		\$1,846,600.00
9	Bridge (12th Street Over US 101)	LS	1	\$4,500,000.00		\$4,500,000.00
10	Bridge (Riverwalk Drive Over Strong's Creek)	LS	1	\$1,500,000.00		\$1,500,000.00
11	Bridge (Dinsmore Drive Realignment Over Strong's Cree		1	\$1,200,000.00		\$1,200,000.00
12	Bridge (US 101 NB On-Ramp Over Rohner Creek)	LS	1	\$550,000.00		\$550,000.00
13	Detectable Warning Surface	SQFT	192	\$35.00		\$6,720.00
14	Minor Concrete (Curb and Gutter)	CY	265	\$806.00		\$213,590.00
15	Minor Concrete (Sidewalk)	CY	403	\$680.00		\$274,040.00
16	Storm Drain System	LS	1	\$180,000.00		\$180,000.00
17	Midwest Guard Rail System (Wood Post)	LF	350	\$80.00		\$28,000.00
18	Thermoplastic Traffic Stripe	LF	27620	\$1.25		\$34,525.00
19	Thermoplastic Pavement Marking	SQFT	4101	\$6.00		\$24,606.00
20	Signs	EA	40	\$350.00		\$14,000.00
21	Signal & Lighting	LS	4	\$225,000.00		\$900,000.00
22	Lighting and Sign Illumination	LS	1	\$450,000.00		\$450,000.00
23	Planting and Irrigation	SQFT	147000	\$5.00		\$735,000.00
24	Mobilization	LS	1	\$1,524,100.00		\$1,524,100.00
25	Minor/ Supplemental Items	%	25%	\$15,240,016.00		\$3,810,004.00
	Subtotal (Construction Costs)				\$	21,246,120.00
	Construction Contingency			25%	\$	5,311,530.00
	Total Construction Costs				\$	26,557,650.00
	Total Construction Budget (Rounded)				\$	26,557,700.00
Righ	t of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	215900	\$20.00		\$4,318,000.00
2	Utility Relocation	ALLOW	1	\$200,000.00		\$200,000.00
_	Total Right of Way (Capital) and Utility Relocation		·	Ψ200,000.00	\$	4,518,000.00
	Total right of tray (Suphar) and Santy Rolosant		, 		Ψ	4,010,000.00
	Total Project Capital Cost				¢	31,075,700.00
	Total Floject Capital Cost				φ	31,073,700.00
Proj	ect Support Costs					
1	Project Initiation Document			TBD	-	
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$	1,553,800.00
3	PS&E		Con. Costs	20%	\$	5,311,600.00
4	Right of Way Engineering & Acquisition		11-Parcels	\$25k/EA	\$	275,000.00
5	Construction Support and Management		Con. Costs	15%	\$	3,983,700.00
	Total Project Support Costs				\$	11,124,100.00
	,					, , ,
	Total Estimated Project Costs				\$	42,199,800.00
	Rounded				¢	42,200,000.00
	Nounded				Ф	72,200,000.00

Assuptions

- 1. All new paving.
- Only R/W costs are for private properties (not County, City, or State).
 Bridge removal is included in the cost for each bridge.

9/16/2016 R2132C004.xlsx



12th Street Interchange Roundabout Concept - SB Option 1 City of Fortuna

8/26/2016 25-3247-03/2132

Construction Costs

I	Struction costs					
No.	Item Description	Units	Quantity	Unit Cost		Total
1	Traffic Control	LS	1	\$238,000.00		\$238,000.00
2	Remove Metal Beam Guard Railing	LF	298	\$16.00		\$4,768.00
3	Remove Roadside Sign	EA	14	\$102.00		\$1,428.00
4	Remove Asphalt Concrete Dike	LF	255	\$4.00		\$1,020.00
5	Remove Concrete (Curb & Gutter)	LF	941	\$10.00		\$9,410.00
6	Bridge Removal	LS	1	\$140,000.00		\$140,000.00
7	Remove Tree	EA	3	\$1,400.00		\$4,200.00
8	Roadway Excavation	CY	4030	\$67.00		\$270,010.00
9	Class 2 Aggregate Base	CY	5750	\$70.00		\$402,500.00
10	Hot Mix Asphalt (Type A)	TON	3230	\$140.00		\$452,200.00
11	Structural Concrete, Bridge	LS	1	\$1,510,000.00		\$1,510,000.00
12	Retaining Wall	SQFT	2710	\$75.00		\$203,250.00
13	Detectable Warning Surface	SQFT	360	\$35.00		\$12,600.00
14	Minor Concrete (Curb)	CY	50	\$1,320.00		\$66,000.00
15	Minor Concrete (Curb - Truck Apron)	CY	28	\$1,160.00		\$32,480.00
16	Minor Concrete (Curb and Gutter)	CY	106	\$806.00		\$85,436.00
17	Minor Concrete (Stamped Concrete)	CY	9	\$820.00		\$7,380.00
18	Minor Concrete (Stamped Concrete - Truck Apron)	CY	180	\$615.00		\$110,700.00
19	Minor Concrete (Sidewalk)	CY	172	\$680.00		\$116,960.00
20	Storm Drain System	LS	1	\$100,000.00		\$100,000.00
21	Midwest Guard Rail System (Wood Post)	LF	475	\$80.00		\$38,000.00
22	Thermoplastic Traffic Stripe	LF	5070	\$1.25		\$6,337.50
23	Thermoplastic Pavement Marking	SQFT	1010	\$6.00		\$6,057.00
24	Signs	EA	50	\$350.00		\$17,500.00
25	Lighting & Electrical	LS	1	\$260,000.00		\$260,000.00
26	Planting and Irrigation	SQFT	12500	\$5.00		\$62,500.00
27	Mobilization	LS	1	\$392,100.00		\$392,100.00
28	Minor/ Supplemental Items	%	25%	\$3,920,736.50		\$980,184.13
	Subtotal (Construction Costs)				\$	5,531,020.63
	Construction Contingency			25%	\$	1,382,755.16
	Total Construction Costs				\$	6,913,775.78
					÷	
	Total Construction Budget (Rounded)				\$	6,913,800.00
Riah	lt of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	5100	\$20.00		\$102,000.00
2	Utility Relocation	ALLOW	1	\$200,000.00		\$200,000.00
H-	Total Right of Way (Capital) and Utility Relocation			Ψ200,000.00	\$	302,000.00
	Total Right of Way (Supital) and Stilly Resocute	11 00313			Ψ	302,000.00
	Total Project Capital Cost				\$	7,215,800.00
D	act Summart Coata					
	ect Support Costs					
1	Project Initiation Document			TBD	-	
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$	360,800.00
3	PS&E		Con. Costs	20%	\$	1,382,800.00
4	Right of Way Engineering & Acquisition		2-Parcels	\$25k/EA	\$	50,000.00
5	Construction Support and Management		Con. Costs	15%	\$	1,037,100.00
	Total Project Support Costs				\$	2,830,700.00
-	Total Catingstod Ducies: Ossic				*	40.040.500.60
	Total Estimated Project Costs				\$	10,046,500.00
	Rounded				\$	10,050,000.00

Assuptions

8/27/2016 R2132C005.xlsx

^{1.} All new paving.

^{2.} Only R/W costs are for private properties (not County, City, or State).



12th Street Interchange Roundabout Concept - SB Option 2a City of Fortuna

9/16/2016 25-3247-03/2132

Construction Costs

	struction Costs					
No.	Item Description	Units	Quantity	Unit Cost		Total
1	Traffic Control	LS	1	\$238,000.00		\$238,000.00
2	Remove Metal Beam Guard Railing	LF	550	\$16.00		\$8,800.00
3	Remove Roadside Sign	EA	16	\$102.00		\$1,632.00
4	Remove Asphalt Concrete Dike	LF	482	\$4.00		\$1,928.00
5	Remove Concrete (Curb & Gutter)	LF	910	\$10.00		\$9,100.00
6	Remove Tree	EA	1	\$1,400.00		\$1,400.00
7	Roadway Excavation	CY	4590	\$67.00		\$307,530.00
8	Class 2 Aggregate Base	CY	4170	\$70.00		\$291,900.00
9	Hot Mix Asphalt (Type A)	TON	2350	\$140.00		\$329,000.00
	Bridge (Riverwalk Drive Over Strong's Creek)	LS	1	\$1,375,000.00		\$1,375,000.00
11	Bridge Widening (12th Street Over US 101)	LS	1	\$950,000.00		\$950,000.00
	Minor Concrete (Curb)	CY	26	\$1,320.00		\$34,320.00
13	Minor Concrete (Curb - Truck Apron)	CY	17	\$1,160.00		\$19,720.00
	Minor Concrete (Curb and Gutter)	CY	96	\$806.00		\$77,376.00
15	Minor Concrete (Stamped Concrete - Truck Apron)	CY	90	\$615.00		\$55,350.00
	Minor Concrete (Sidewalk)	CY	129	\$680.00		\$87,720.00
	Storm Drain System	LS	1	\$120,000.00		\$120,000.00
	Midwest Guard Rail System (Wood Post)	LF	515	\$80.00		\$41,200.00
	Thermoplastic Traffic Stripe	LF	4630	\$1.25		\$5,787.50
	Thermoplastic Pavement Marking	SQFT	403	\$6.00		\$2,418.00
21	Signs	EA	40	\$350.00		\$14,000.00
	Lighting & Electrical	LS	1	\$200,000.00		\$200,000.00
	Planting and Irrigation	SQFT	8200	\$5.00		\$41,000.00
24	Dinsmore Drive Realignment (2a)	LS	1	\$2,086,000.00		\$2,086,000.00
25	Mobilization	LS	1	\$606,200.00		\$606,200.00
26	Minor/ Supplemental Items	%	25%	\$6,061,181.50		\$1,515,295.38
	Subtotal (Construction Costs)					\$8,420,676.88
	Construction Contingency			25%	\$	2,105,169.22
	Total Construction Costs					\$10,525,846.09
	Total Construction Budget (Rounded)					\$10,525,800.00
Righ	t of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	0	\$20.00		\$0.00
2	Utility Relocation	ALLOW	1	\$200,000.00		\$200,000.00
	Total Right of Way (Capital) and Utility Relocation	n Costs			\$	200,000.00
	Total Project Capital Cost					\$10,725,800.00
Proi	ect Support Costs					
1	Project Initiation Document			TBD	-	
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$	536,300.00
3	PS&E		Con. Costs	20%	\$	2,105,200.00
4	Right of Way Engineering & Acquisition		0-Parcels	\$25k/EA	\$	_, ,
5	Construction Support and Management		Con. Costs	15%	\$	1,578,900.00
	Total Project Support Costs				\$	4,220,400.00
	Total Estimated Project Costs				¢	14,946,200.00
-	•				\$	
	Rounded				\$	14,950,000.00

Assuptions

- 1. All new paving.
- 2. Only R/W costs are for private properties (not County, City, or State).
- 3. Removing railroad tracks and equipment not included.

9/16/2016 R2132C006.xlsx



Preliminary Opinion of Costs (Capital Only)

Dinsmore Drive Realignment Alt 2a for 12th Street Interchange Roundabout Concept - SB Option 2a City of Fortuna

25-3247-03/2132

Construction Costs:

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$14,000.00	\$14,000.00
2	Remove Tree	EA	8	\$1,400.00	\$11,200.00
3	Roadway Excavation	CY	1430	\$67.00	\$95,810.00
4	Class 2 Aggregate Base	CY	3840	\$70.00	\$268,800.00
5	Hot Mix Asphalt (Type A)	TON	2310	\$140.00	\$323,400.00
6	Bridge (Dinsmore Drive Realignment Over Strong's Cr	LS	1	\$1,200,000.00	\$1,200,000.00
7	Minor Concrete (Curb and Gutter)	CY	34	\$806.00	\$27,404.00
8	Minor Concrete (Sidewalk)	CY	42	\$680.00	\$28,560.00
9	Storm Drain System	LS	1	\$50,000.00	\$50,000.00
10	Thermoplastic Traffic Stripe	LF	4740	\$1.25	\$5,925.00
11	Thermoplastic Pavement Marking	SQFT	44	\$6.00	\$264.00
12	Signs	EA	8	\$350.00	\$2,800.00
13	Lighting & Electrical	LS	1	\$50,000.00	\$50,000.00
14	Planting and Irrigation	SQFT	1450	\$5.00	\$7,250.00
15					
	Subtotal (Construction Costs)				\$2,085,413.00

9/16/2016 R2132C009.xlsx



12th Street Interchange Roundabout Concept - SB Option 2b City of Fortuna

9/16/2016 25-3247-03/2132

Construction Costs

No.	Item Description	Units	Quantity	Unit Cost		Total
1	Traffic Control	LS	1	\$238.000.00		\$238,000.00
2	Remove Metal Beam Guard Railing	LF	550	\$16.00		\$8,800.00
3	Remove Roadside Sign	EA	16	\$102.00		\$1,632.00
4	Remove Asphalt Concrete Dike	LF	482	\$4.00		\$1,928.00
5	Remove Concrete (Curb & Gutter)	LF	910	\$10.00		\$9,100.00
6	Remove Tree	EA	1	\$1,400.00		\$1,400.00
7	Roadway Excavation	CY	4590	\$67.00		\$307,530.00
8	Class 2 Aggregate Base	CY	4170	\$70.00		\$291,900.00
9	Hot Mix Asphalt (Type A)	TON	2350	\$140.00		\$329,000.00
10	Bridge (Riverwalk Drive Over Strong's Creek)	LS	1	\$1,375,000.00		\$1,375,000.00
11	Bridge Widening (12th Street Over US 101)	LS	1	\$950,000.00		\$950,000.00
12	Minor Concrete (Curb)	CY	26	\$1,320.00		\$34,320.00
13	Minor Concrete (Curb - Truck Apron)	CY	17	\$1,160.00		\$19,720.00
	Minor Concrete (Curb and Gutter)	CY	96	\$806.00		\$77,376.00
15	Minor Concrete (Stamped Concrete - Truck Apron)	CY	90	\$615.00		\$55,350.00
16	Minor Concrete (Sidewalk)	CY	129	\$680.00		\$87,720.00
17	Storm Drain System	LS	1	\$120,000.00		\$120,000.00
18	Midwest Guard Rail System (Wood Post)	LF	515	\$80.00		\$41,200.00
19	Thermoplastic Traffic Stripe	LF	4630	\$1.25		\$5,787.50
20	Thermoplastic Pavement Marking	SQFT	403	\$6.00		\$2,418.00
21	Signs	EA	40	\$350.00		\$14,000.00
22	Lighting & Electrical	LS	1	\$200,000.00		\$200,000.00
23	Planting and Irrigation	SQFT	8200	\$5.00		\$41,000.00
24	Dinsmore Drive Realignment (2b)	LS	1	\$643,000.00		\$643,000.00
25	Mobilization	LS	1	\$461,900.00		\$461,900.00
26	Minor/ Supplemental Items	%	25%	\$5,080,081.50		\$1,270,020.38
	Subtotal (Construction Costs)					\$6,588,101.88
	Construction Contingency			25%	\$	1,647,025.47
	Total Construction Costs				, ,	\$8,235,127.34
						·
	Total Construction Budget (Rounded)					\$8,235,100.00
Diah	t of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	0	\$20.00		\$0.00
2	<u> </u>	ALLOW	1	\$200,000.00		\$200,000.00
	Utility Relocation		ı	\$200,000.00	•	
	Total Right of Way (Capital) and Utility Relocation	n Costs			\$	200,000.00
	Total Project Capital Cost					\$8,435,100.00
Proi	ect Support Costs	 				
1	Project Initiation Document			TBD	-	
2	Environmental Clearance (CEQA/NEPA)		Capital Casts	5%	\$	424 000 00
3	PS&E	-	Capital Costs Con. Costs	20%	\$	421,800.00 1,647,100.00
4	Right of Way Engineering & Acquisition	-	0-Parcels	\$25k/EA	\$	1,047,100.00
5	Construction Support and Management	 	Con. Costs	15%	\$	1,235,300.00
			COII. COSIS	1370	_	
	Total Project Support Costs				\$	3,304,200.00
	Total Estimated Project Costs	<u> </u>			\$	11,739,300.00
	Rounded				\$	11,740,000.00
	INDUINOU				Ψ	. 1,7 40,000.00

Assuptions

- 1. All new paving.
- 2. Only R/W costs are for private properties (not County, City, or State).
- 3. Removing railroad tracks and equipment not included.

9/16/2016 R2132C006.xlsx



Preliminary Opinion of Costs (Capital Only)

Dinsmore Drive Realignment Alt 2b for 12th Street Interchange Roundabout Concept - SB Option 2b City of Fortuna 9/16/2016

25-3247-03/2132

Construction Costs:

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$14,000.00	\$14,000.00
2	Remove Tree	EA	5	\$1,400.00	\$7,000.00
3	Roadway Excavation	CY	1350	\$67.00	\$90,450.00
4	Class 2 Aggregate Base	CY	1980	\$70.00	\$138,600.00
5	Hot Mix Asphalt (Type A)	TON	950	\$140.00	\$133,000.00
6	Minor Concrete (Curb and Gutter)	CY	20	\$806.00	\$16,120.00
7	Minor Concrete (Sidewalk)	CY	285	\$680.00	\$193,800.00
8	Storm Drain System	LS	1	\$20,000.00	\$20,000.00
9	Thermoplastic Traffic Stripe	LF	1400	\$1.25	\$1,750.00
10	Thermoplastic Pavement Marking	SQFT	22	\$6.00	\$132.00
11	Signs	EA	3	\$350.00	\$1,050.00
12	Lighting & Electrical	LS	1	\$20,000.00	\$20,000.00
13	Planting and Irrigation	SQFT	1400	\$5.00	\$7,000.00
14					
	Subtotal (Construction Costs)				\$642,902.00

9/16/2016 R2132C010.xlsx



12th Street Interchange Roundabout Concept - SB Option 2c City of Fortuna

9/16/2016 25-3247-03/2132

Construction Costs

	struction Costs	11-11-	0	11-21 01		T-1-1
No.	Item Description	Units	Quantity	Unit Cost		Total
1	Traffic Control	LS	1	\$238,000.00		\$238,000.00
2	Remove Metal Beam Guard Railing	LF EA	550 16	\$16.00		\$8,800.00
3	Remove Roadside Sign Remove Asphalt Concrete Dike	LF	482	\$102.00		\$1,632.00 \$1,928.00
<u>4</u> 5		LF	910	\$4.00		. ,
6	Remove Concrete (Curb & Gutter) Remove Tree	EA	910	\$10.00 \$1,400.00		\$9,100.00 \$1,400.00
7	Roadway Excavation	CY	4590	\$67.00		\$307,530.00
8	Class 2 Aggregate Base	CY	4170	\$70.00		\$291,900.00
9	Hot Mix Asphalt (Type A)	TON	2350	\$140.00		\$329,000.00
	Bridge (Riverwalk Drive Over Strong's Creek)	LS	1	\$1,375,000.00		\$1,375,000.00
11	Bridge Widening (12th Street Over US 101)	LS	1	\$950,000.00		\$950,000.00
	Minor Concrete (Curb)	CY	26	\$1,320.00		\$34,320.00
13	Minor Concrete (Curb - Truck Apron)	CY	17	\$1,160.00		\$19,720.00
14	Minor Concrete (Curb - Huck Apron) Minor Concrete (Curb and Gutter)	CY	96	\$806.00		\$77,376.00
15	Minor Concrete (Stamped Concrete - Truck Apron)	CY	90	\$615.00		\$55,350.00
	Minor Concrete (Stamped Concrete - Truck Apron) Minor Concrete (Sidewalk)	CY	129	\$680.00		\$87,720.00
17	Storm Drain System	LS	1	\$120,000.00		\$120,000.00
18	Midwest Guard Rail System (Wood Post)	LF	515	\$80.00		\$41,200.00
19	Thermoplastic Traffic Stripe	LF	4630	\$1.25		\$5,787.50
20	Thermoplastic Pavement Marking	SQFT	403	\$6.00		\$2,418.00
21	Signs	EA	40	\$350.00		\$14,000.00
22	Lighting & Electrical	LS	1	\$200,000.00		\$200,000.00
	Planting and Irrigation	SQFT	8200	\$5.00		\$41,000.00
24	Dinsmore Drive Realignment (2c)	LS	1	\$266,000.00		\$266,000.00
25	Mobilization	LS	1	\$424,200.00		\$424,200.00
	Minor/ Supplemental Items	%	25%	\$4,241,181.50		\$1,060,295.38
	Subtotal (Construction Costs)			· · · · ·		\$5,963,676.88
	Construction Contingency			25%	\$	1,490,919.22
	Total Construction Costs			2070	Ψ	\$7,454,596.09
	Total Construction Budget (Rounded)					\$7,454,600.00
Righ	t of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	0	\$20.00		\$0.00
2	Utility Relocation	ALLOW	1	\$200,000.00		\$200,000.00
	Total Right of Way (Capital) and Utility Relocation	n Costs			\$	200,000.00
	Total Project Capital Cost					\$7,654,600.00
						V 1,00 1,000100
Proj	ect Support Costs					
1	Project Initiation Document			TBD	-	
2	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$	382,800.00
3	PS&E		Con. Costs	20%	\$	1,491,000.00
4	Right of Way Engineering & Acquisition		0-Parcels	\$25k/EA	\$	=
5	Construction Support and Management		Con. Costs	15%	\$	1,118,200.00
	Total Project Support Costs				\$	2,992,000.00
	Total Estimated Project Costs				\$	10,646,600.00
	Rounded					10,650,000.00
Щ	110011000				Ψ	. 5,555,555.50

Assuptions

- 1. All new paving.
- 2. Only R/W costs are for private properties (not County, City, or State).
- 3. Removing railroad tracks and equipment not included.

9/16/2016 R2132C006.xlsx



Preliminary Opinion of Costs (Capital Only)

Dinsmore Drive Realignment 2c Alt for 12th Street Interchange Roundabout Concept - SB Option 2c City of Fortuna 9/16/2016 25-3247-03/2132

Construction Costs:

No.	Item Description	Units	Quantity	Unit Cost	Total
1	Traffic Control	LS	1	\$14,000.00	\$14,000.00
2	Remove Tree	EA	4	\$1,400.00	\$5,600.00
3	Roadway Excavation	CY	490	\$67.00	\$32,830.00
4	Class 2 Aggregate Base	CY	860	\$70.00	\$60,200.00
5	Hot Mix Asphalt (Type A)	TON	490	\$140.00	\$68,600.00
6	Minor Concrete (Curb and Gutter)	CY	15	\$806.00	\$12,090.00
7	Minor Concrete (Sidewalk)	CY	36	\$680.00	\$24,480.00
8	Storm Drain System	LS	1	\$20,000.00	\$20,000.00
9	Thermoplastic Traffic Stripe	LF	450	\$1.25	\$562.50
10	Thermoplastic Pavement Marking	SQFT	22	\$6.00	\$132.00
11	Signs	EA	3	\$350.00	\$1,050.00
12	Lighting & Electrical	LS	1	\$20,000.00	\$20,000.00
13	Planting and Irrigation	SQFT	1210	\$5.00	\$6,050.00
	Subtotal (Construction Costs)				\$265,594.50

9/16/2016 R2132C008.xlsx



Preliminary Opinion of Costs (Capital & Support) 12th Street Interchange Roundabout Concept - NB Option 1

City of Fortuna

9/16/2016 25-3247-03/2132

Construction Costs

	struction Costs					
No.	Item Description	Units	Quantity	Unit Cost		Total
1	Traffic Control	LS	1	\$266,000.00		\$266,000.00
2	Remove Roadside Sign	EA	16	\$102.00		\$1,632.00
3	Remove Asphalt Concrete Dike	LF	215	\$4.00		\$860.00
4	Remove Concrete (Curb & Gutter)	LF	2005	\$10.00		\$20,050.00
5	Remove Tree	EA	1	\$1,400.00		\$1,400.00
6	Roadway Excavation	CY	7140	\$67.00		\$478,380.00
7	Class 2 Aggregate Base	CY TON	9350	\$70.00		\$654,500.00
<u>8</u> 9	Hot Mix Asphalt (Type A) Bridge Widening (12th Street Over US 101)	LS	5290	\$140.00 \$950,000.00		\$740,600.00
10	Bridge Widening (NB 101 On-Ramp Over Rohner Creek		1	\$550,000.00		\$950,000.00 \$550,000.00
11	Detectable Warning Surface	SQFT	660	\$350,000.00		\$23,100.00
	Minor Concrete (Curb)	CY	35	\$1,320.00		\$46,200.00
13	Minor Concrete (Curb - Truck Apron)	CY	27	\$1,320.00		\$31,320.00
	Minor Concrete (Curb and Gutter)	CY	231	\$806.00		\$186,186.00
15	Minor Concrete (Curb and Gutter) Minor Concrete (Driveway)	CY	43	\$420.00		\$18,060.00
	Minor Concrete (Stamped Concrete)	CY	7	\$820.00		\$5,740.00
17	Minor Concrete (Stamped Concrete - Truck Apron)	CY	100	\$615.00		\$61,500.00
18	Minor Concrete (Sidewalk)	CY	313	\$680.00		\$212,840.00
	Storm Drain System	LS	1	\$120,000.00		\$120,000.00
20	Thermoplastic Traffic Stripe	LF	9610	\$1.25		\$12,012.50
21	Thermoplastic Pavement Marking	SQFT	1904	\$6.00		\$11,424.00
22	Signs	EA	40	\$350.00		\$14,000.00
23	Lighting & Electrical	LS	1	\$200,000.00		\$200,000.00
24	Planting and Irrigation	SQFT	21300	\$5.00		\$106,500.00
	Mobilization	LS	1	\$444,700.00		\$444,700.00
26	Minor/ Supplemental Items	%	25%	\$4,446,304.50		\$1,111,576.13
	Subtotal (Construction Costs)				\$	6,268,580.63
	Construction Contingency			25%	\$	1,567,145.16
	Total Construction Costs			_370	\$	7,835,725.78
					·	
	Total Construction Budget (Rounded)				\$	7,835,800.00
Righ	t of Way (Capital) and Utility Relocation Costs:					
1	Right Of Way	SQFT	51700	\$20.00		\$1,034,000.00
2	Utility Relocation	ALLOW	1	\$200,000.00		\$200,000.00
	Total Right of Way (Capital) and Utility Relocation	on Costs	3		\$	1,234,000.00
	Total Project Capital Cost				\$	9,069,800.00
Proj	ect Support Costs					
	Project Initiation Document			TBD	-	
	Environmental Clearance (CEQA/NEPA)		Capital Costs	5%	\$	453,500.00
3	PS&E		Con. Costs	20%	\$	1,567,200.00
4	Right of Way Engineering & Acquisition		4-Parcels	\$25k/EA	\$	100,000.00
5	Construction Support and Management		Con. Costs	15%	\$	1,175,400.00
	Total Project Support Costs				\$	3,296,100.00
	Total Estimated Project Costs				\$	12,365,900.00
	•				- i	
	Rounded				\$	12,370,000.00

Assuptions

- 1. All new paving.
- 2. Only R/W costs are for private properties (not County, City, or State).
- 3. Removing railroad tracks and equipment not included.

9/16/2016 R2132C007.xlsx

MORRISON STRUCTURES, INC.											
1890 Park Marina Drive, Suite 104											
Redding, CA 96001 BRIDGE GENERAL PLAN ESTIMATE OR PLANNING ESTIMATE X											
STRUCTURE 12th St C				COUNTY		ININING E	RCVD. BY	<u>XI</u>			
	S I-GIRDER	DIST.	1	ROUTE			P.M.				
LENGTH 280	X WIDTH	74	=	20720			EST. NO.		1		
PROJECT INCLUD		STRUCTURES	· · · · · · · · · · · · · · · · · · ·		TITIES BY	RLM	DATE		9/2/2016		
ANI	J \$	ROADWORK		CHE	CKED BY		DATE				
CONTR	RACT ITEMS		UNIT	QUAI	NTITY	PR	ICE		AMOUNT		
1 TRAFFIC CONTROL SY			LS	(2,000.00	\$	-		
2 TEMPORARY RAILING			LF		00	\$	40.50	\$	81,000.00		
3 BRIDGE REMOVAL (PC 4 STRUCTURE EXCAVA	•		LS	93) 39	\$	- 157.50	\$ \$	- 147,892.50		
5 STRUCTURE BACKFIL	, ,		CY	62		\$	112.50	\$	69,975.00		
6 FURNISH PILING (CLAS			LF		10	\$	40.50	\$	154,305.00		
7 DRIVE PILING (CLASS			EA	12			1,620.00	\$	205,740.00		
8 STRUCTURAL CONCR 9 STRUCTURAL CONCR		OTING	CY	21	13 28	\$	540.00 1,400.00	\$ \$	115,020.00 1,719,200.00		
10 FRACTURE RIB TEXTU			SF		00	\$	13.50	\$	101,250.00		
11 DRILL & BOND DOWEL			LF)	\$	36.90	\$			
12 FURNISH PC PS CONC	GIRDER (50-60')		EA	2	6	\$ 1	6,200.00	\$	421,200.00		
13 FURNISH PC PS CONC	GIRDER (80-90')		EA	1	3	\$ 2	0,700.00	\$	269,100.00		
14 FURNISH PC PS CONC	GIRDER (80-90')		EA	1	3	\$ 2	0,700.00	\$	269,100.00		
15 ERECT PC PS CONC G	GIRDER		EA	5	2	\$	4,500.00	\$	234,000.00		
16 JOINT SEAL			LF	26		\$	108.00	\$	28,080.00		
17 BAR REINFORCING ST			LB LF	260		\$	1.31 202.50	\$ \$	340,600.00		
18 TYPE 732 CONC BARR 19 CHAIN LINK RAILING (1			LF	62	30	\$	81.00	\$	125,550.00 22,680.00		
20 TUBULAR HAND RAILING			LF	34		\$	76.50	\$	26,010.00		
20 TOBOLI WATE WATER						\$	-	\$	-		
						\$	-	\$	-		
						\$	-	\$	-		
						\$	-	\$ \$	-		
						\$	-	\$	-		
						\$	-	\$	-		
						\$	-	\$	-		
						\$	-	\$	-		
						\$	-	\$ \$	-		
						\$	-	\$	-		
						\$	-	\$	-		
						\$	-	\$	-		
						\$	-	\$	-		
						\$	-	<u>\$</u> \$			
						\$	-	\$	-		
						\$	-	\$	-		
						\$	-	\$	-		
						\$	-	\$ \$	-		
						\$	-	\$	-		
			SUBTO	TAL					4,330,702.50		
COMMENTS:			MOBILIZA		(10	%)		481,189.17		
				L STRUCTI			0/)	-	4,811,891.67		
COSTS ESTIM FOR 2016 CO	NSTRUCTION			ENCIES OTAL					1,202,972.92 6,014,864.58		
				REMOVAL (C					170,000.00		
				RAILROAD			,	\$			
			GRAND		DO050 :	ICE		-	6,184,864.58		
			FOR BUI	DGET PUR	ruses - l	JSE		Ъ	6,185,000.00		
			CON	MENTS:							

MORRISON STRUCTURES, INC. 1890 Park Marina Drive, Suite 104 Redding, CA 96001 BRIDGE GENERAL PLAN ESTIMATE OR PLANNING ESTIMATE X STRUCTURE 12th St OC/US 101 IC Widen(04-0130) COUNTY HUM RCVD. BY PC PS I-GIRDER DIST. TYPF ROUTE 101 РМ 1 197 EST. NO. LENGTH X WIDTH 1911 SF 9.7 PROJECT INCLUDES **STRUCTURES QUANTITIES BY** DATE 9/2/2016 **ROADWORK** CHECKED BY DATE AND \$ **CONTRACT ITEMS QUANTITY** PRICE **AMOUNT** 72,000.00 \$ 72,000.00 1 TRAFFIC CONTROL SYSTEM LS \$ LF 2000 40.50 \$ 81,000.00 2 TEMPORARY RAILING (TYPE K) \$ 27,000.00 \$ 27,000.00 3 BRIDGE REMOVAL (PORTION) LS 1 \$ 4 STRUCTURE EXCAVATION (BRIDGE) 155 157.50 \$ 24,412.50 CY 112.50 \$ 5 STRUCTURE BACKFILL (BRIDGE) 114 \$ 12,825.00 LF 650 45.00 \$ 29,250.00 6 FURNISH PILING (CLASS 90) (ALT "V") \$ 7 DRIVE PILING (CLASS 90) (ALT "V") EΑ 21 \$ 3,150.00 \$ 66,150.00 8 STRUCTURAL CONCRETE, BRIDGE FOOTING CY 28 \$ 675.00 \$ 18,900.00 145 228,375.00 CY 9 STRUCTURAL CONCRETE, BRIDGE \$ 1,575.00 \$ 13.50 \$ 10 FRACTURE RIB TEXTURE SF 576 \$ 7,776.00 11 DRILL & BOND DOWEL LF 324 36.90 \$ 11,955.60 \$ 12 FURNISH PC PS CONC GIRDER (30-40') EΑ 4 \$ 12,510.00 \$ 50,040.00 2 35,100.00 13 FURNISH PC PS CONC GIRDER (50-60') EΑ \$ 17,550.00 \$ 14 FURNISH PC PS CONC GIRDER (60-70') EΑ 2 \$ 20,700.00 \$ 41,400.00 36,000.00 EΑ 4,500.00 \$ 15 ERECT PC PS CONC GIRDER 8 \$ 16 JOINT SEAL LF \$ 36.00 \$ 864.00 LB 17 BAR REINFORCING STEEL (BRIDGE) 34620 59,200.20 \$ 1.71 \$ 18 TYPE 732 CONC BARRIER (MOD) LF 227 \$ 202.50 \$ 45,967.50 ΙF 200 \$ 81.00 \$ 16,200.00 19 CHAIN LINK RAILING (TYPE 7) 247.50 \$ 20 CALIFORNIA ST-10 BRIDGE RAIL LF 318 78,705.00 \$ \$ \$ \$ \$ \$ \$ \$ -\$ **SUBTOTAL** 943,120.80 COMMENTS: MOBILIZATION 10 %) \$ 104,791.20 SUBTOTAL STRUCTURE ITEMS 1,047,912.00 \$ 261,978.00 CONTINGENCIES 25 1,309,890.00 COSTS ESTIM FOR 2016 CONSTRUCTION BRIDGE TOTAL 685 / SF \$ BRIDGE REMOVAL (CONTINGENCIES INCL) \$ WORK BY RAILROAD OR UTILITY FORCES GRAND TOTAL \$ 1,309,890.00 FOR BUDGET PURPOSES - USE \$ 1,310,000.00 COMMENTS: _

MORRISON STRUCTURES, INC.										
1890 Park Marina Drive, Suite 104										
Redding, CA 96001										
BRIDGE GENERAL PLAN ESTIMATE		OR PLANNING ESTIMATE X								
STRUCTURE 12th St PED OC/US 101 IC (New) TYPE PC PS I-GIRDER DIST.	1	ROUTE 101		RCVD. BY						
	1			EST. NO.		1				
LENGTH 203 X WIDTH 12 PROJECT INCLUDES 1 STRUCTURES	=	2436 SF QUANTITIES BY	RLM			9/15/2016				
AND \$ ROADWORK		CHECKED BY	KLIVI	DATE DATE		9/15/2016				
AND \$ ROADWORK		CHLCKLDBI		DAIL						
CONTRACT ITEMS	UNIT	QUANTITY	PR	RICE		AMOUNT				
1 TRAFFIC CONTROL SYSTEM	LS	1		2.000.00	\$	72,000.00				
2 TEMPORARY RAILING (TYPE K)	LF	2000	\$	40.50	\$	81,000.00				
3 BRIDGE REMOVAL (PORTION)	LS	0		27,000.00	\$	-				
4 STRUCTURE EXCAVATION (BRIDGE)	CY	198	\$	157.50	\$	31,185.00				
5 STRUCTURE BACKFILL (BRIDGE)	CY	124	\$	112.50	\$	13,950.00				
6 FURNISH PILING (CLASS 90) (ALT "V")	LF	870	\$	45.00	\$	39,150.00				
7 DRIVE PILING (CLASS 90) (ALT "V")	EA	29		3,150.00	\$	91,350.00				
8 STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	32	\$	675.00	\$	21,600.00				
9 STRUCTURAL CONCRETE, BRIDGE	CY	148	\$	1,575.00	\$	233,100.00				
10 FRACTURE RIB TEXTURE	SF	460	\$	13.50	\$	6,210.00				
11 DRILL & BOND DOWEL	LF	0	\$	36.90	\$	-				
12 FURNISH PC PS CONC GIRDER (30-40')	EA	2	\$ 1	3.050.00	\$	26,100.00				
13 FURNISH PC PS CONC GIRDER (40-50')	EA	2		3,050.00	\$	26,100.00				
14 FURNISH PC PS CONC GIRDER (50-60')	EA	2		7,550.00	\$	35,100.00				
` ′					_	•				
15 FURNISH PC PS CONC GIRDER (60-70')	EA	2	•	0,700.00	\$	41,400.00				
16 ERECT PC PS CONC GIRDER	EA	8		4,500.00	\$	36,000.00				
17 JOINT SEAL	LF	50	\$	36.00	\$	1,800.00				
17 BAR REINFORCING STEEL (BRIDGE)	LB	35870	\$	1.71	\$	61,337.70				
19 TYPE 732 CONC BARRIER (MOD)	LF	466	\$	202.50	\$	94,365.00				
20 CHAIN LINK RAILING (TYPE 7)	LF	400	\$	81.00	\$	32,400.00				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	<u>-</u>				
-			\$		\$	<u> </u>				
			\$		\$					
			\$		\$					
			\$		\$	-				
			\$	_	\$	_				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
	SUBTO	TAL			_	944,147.70				
COMMENTS:	MOBILIZA	ATION (10	%)	_	104,905.30				
		AL STRUCTURE ITEMS			\$	1,049,053.00				
		GENCIES (\$	262,263.25				
COSTS ESTIM FOR 2016 CONSTRUCTION		TOTAL (1,311,316.25				
		REMOVAL (CONTINGEN			\$	-				
	WORK BY	Y RAILROAD OR UTILIT	Y FORCES		,	1 211 216 25				
	_	1,311,316.25								
	LOK BO	DGET PURPOSES - U	JOE		Ф	1,312,000.00				
	001	AMENITO:								
	CON	MMENTS:								

MORRISON STRUCTURES, INC.										
1890 Park Marina Drive, Suite 104										
Redding, CA 96001										
BRIDGE GENERAL PLA	AN ESTIMATE		OR PLA	NNING E	STIMATE	X				
STRUCTURE Dinsmore Dr. Strongs Cr Traffic Signal New COUNTY HUM RCVD. BY										
TYPE CIP SLAB DIST. 1 ROUTE DINSMORE DR P.M.										
LENGTH 157 X WIDTH		=	5966 SF		EST. NO.		1			
PROJECT INCLUDES 1	STRUCTURES		QUANTITIES BY		DATE		8/29/2016			
AND \$	ROADWORK		CHECKED BY	•	DATE					
				Ť						
CONTRACT ITEMS		UNIT	QUANTITY		RICE		AMOUNT			
1 STRUCTURE EXCAVATION (BRIDGE)		CY	210	\$	157.50	\$	33,075.00			
2 STRUCTURE BACKFILL (BRIDGE)		CY	158	\$	112.50		17,775.00			
3 FURNISH CLASS 90 PILING ALT "V"		LF	3120	\$	49.50	\$	154,440.00			
4 DRIVE CLASS 90 PILING ALT "V"		EA	26	\$	1,800.00	\$	46,800.00			
5 STRUCTURAL CONCRETE, BRIDGE		CY	650	\$	1,050.00	\$	682,500.00			
6 JOINT SEAL (MR=1 ")		LF	152	\$	63.00	\$	9,576.00			
7 BAR REINFORCING STEEL (BRIDGE)		LB	100000	\$	1.33	\$	133,000.00			
8 CONCRETE BARRIER (TYPE 732 SW)		LF	394	\$	248.00	\$	97,712.00			
9 TUBULAR HANDRAILING		LF	394	\$	63.00	\$	24,822.00			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
 				\$	<u>-</u>	\$				
 				\$		\$	-			
				\$	-	\$	-			
				\$		\$				
				\$		\$	<u>_</u> _			
				\$		\$				
				\$		\$				
				\$	_	\$				
				\$		\$	_			
				\$	-	\$	_			
				\$	-	\$	_			
		SUBTO	TAL			\$	1,199,700.00			
COMMENTS:		MOBILIZA		10	%)	\$	133,300.00			
	_	SUBTOTA	AL STRUCTURE ITEMS			\$	1,333,000.00			
	_	CONTING	GENCIES (25	%)	\$	333,250.00			
COSTS ESTIM FOR 2016 CONSTRUCTION	=	BRIDGE '	TOTAL (\$ 279	/ SF	\$	1,666,250.00			
	_	BRIDGE	REMOVAL (CONTINGE	NCIES INCL	_)	\$	-			
	_	WORK B	Y RAILROAD OR UTILIT	TY FORCES		\$	-			
		GRAND	TOTAL			\$	1,666,250.00			
	_	FOR BU	DGET PURPOSES -	USE		\$	1,667,000.00			
	- -	COM	MMENTS:							
	_									
	-									

	MORRISO	N STRI	UCTURES, IN	[C.						
			rive, Suite 104							
Redding, CA 96001 BRIDGE GENERAL PLAN ESTIMATE OR PLANNING ESTIMATE X										
STRUCTURE Rohner Cr US101 Br Widen (04-0108) COUNTY HUM RCVD. BY TYPE CIP SLAB DIST. 1 ROUTE DINSMORE DR P.M.										
LENGTH	87 X WIDTH 16	=	1392 SF		EST. NO.		1			
PROJECT	INCLUDES 1 STRUCTURE		QUANTITIES BY		DATE		8/29/2016			
	AND \$ ROADWORK		CHECKED BY	,	DATE					
4	CONTRACT ITEMS	UNIT	QUANTITY		ICE	*	AMOUNT			
	EXCAVATION (BRIDGE)	CY	49 37	\$	305.00	\$	14,945.00			
	BACKFILL (BRIDGE) ASS 90 PILING ALT "V"	CY LF	560	\$	218.00 96.00	\$ \$	8,066.00 53,760.00			
	S 90 PILING ALT "V"	EA	8		3,400.00	\$	27,200.00			
	L CONCRETE, BRIDGE	CY	150		2,030.00	\$	304,500.00			
6 JOINT SEAL		LF	32	\$	122.00	\$	3,904.00			
	RCING STEEL (BRIDGE)	LB	23400	\$	2.60	\$	60,840.00			
	BARRIER (TYPE 742)	LF	125	\$	475.00	\$	59,375.00			
	'RAILING (TYPE K)	LF	400	\$	42.00	\$	16,800.00			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	_			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
-				\$	-	\$	-			
				\$	-	\$ 6	-			
				\$	-	\$	-			
				\$	<u>-</u>	\$	<u>-</u>			
 				\$		\$	<u> </u>			
				\$		\$				
				\$	_	\$	_			
				\$	-	\$	_			
				\$	-	\$	-			
				\$	-	\$	_			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
				\$	-	\$	-			
		SUBTO				\$	549,390.00			
COMMENTS:		MOBILIZA	,	10	%)	\$	61,043.33			
			AL STRUCTURE ITEMS		0()	\$	610,433.33			
00070 507114 507	2 22 42 22 12 12 12 12 12 12 12 12 12 12 12 12		GENCIES (TOTAL	25	%)	\$	152,608.33			
COSTS ESTIM FOR	R 2016 CONSTRUCTION					\$	763,041.67			
			REMOVAL (CONTINGE Y RAILROAD OR UTILI'			\$	<u> </u>			
		GRAND		ITTOROLO	'	\$	763,041.67			
			DGET PURPOSES -	USE		\$	764,000.00			
		-	MMENTS:			<u> </u>				
										
 										
							· · · · · · · · · · · · · · · · · · ·			

MORRISON STRUCTURES, INC.											
1890 Park Marina Drive, Suite 104											
	ling, CA										
BRIDGE GENERAL PLAN ESTIMATE	g.										
STRUCTURE Strongs Cr Br on Riverwalk Replace	4C-085			RCVD. BY							
TYPE Concept 2C - CIP SLAB DIST. 1 ROUTE DINSMORE DR P.M.											
LENGTH 99 X WIDTH 67	=	6633 SF		EST. NO.		1					
PROJECT INCLUDES 1 STRUCTURES		QUANTITIES BY	RLM	DATE		8/29/2016					
AND \$ ROADWORK		CHECKED BY		DATE							
	T		1								
CONTRACT ITEMS	UNIT	QUANTITY		RICE		AMOUNT					
1 STRUCTURE EXCAVATION (BRIDGE)	CY	385	\$	157.50	\$	60,637.50					
2 STRUCTURE BACKFILL (BRIDGE)	CY	290	\$	112.50	\$	32,625.00					
3 FURNISH CLASS 90 PILING ALT "V"	LF	3312	\$	49.50	\$	163,944.00					
4 DRIVE CLASS 90 PILING ALT "V"	EA CY	28	\$	1,800.00	\$	50,400.00					
5 STRUCTURAL CONCRETE, BRIDGE		690	\$	1,100.00	_	759,000.00					
6 JOINT SEAL (MR=1 ")	LF	134	\$	70.00	\$	9,380.00					
7 BAR REINFORCING STEEL (BRIDGE)	LB	106150	\$	1.40	\$	148,610.00					
8 CONCRETE BARRIER (TYPE 732 SW)	LF LF	280 280	\$	280.00 70.00	\$	78,400.00					
9 TUBULAR HANDRAILING	LF	200	\$		\$	19,600.00					
			\$	<u>-</u>	\$						
			\$		\$	<u> </u>					
			\$		\$	<u> </u>					
			\$		\$						
			\$	_	\$	_					
			\$	-	\$	_					
			\$	-	\$	-					
			\$	-	\$	_					
			\$	-	\$	_					
			\$	-	\$	-					
			\$	-	\$	-					
			\$	-	\$	-					
			\$	-	\$	-					
			\$	-	\$	-					
			\$	-	\$	-					
			\$	-	\$	-					
			\$	-	\$	-					
			\$	-	\$	-					
			\$	-	\$	-					
			\$	-	\$	-					
			\$ \$	-	\$	<u> </u>					
	SUBTO	<u> </u> TAI	φ		\$	1,322,596.50					
COMMENTS:	MOBILIZA		10	%)	\$	146,955.17					
Width of Bridge varies from 58' at BB		AL STRUCTURE ITEMS	10	70)	\$	1,469,551.67					
to 76' at EB (average = 67')	CONTING		25	%)	\$	367,387.92					
COSTS ESTIM FOR 2016 CONSTRUCTION	BRIDGE 1	\\		/ SF	\$	1,836,939.58					
		REMOVAL (CONTINGE)			\$	50,000.00					
		RAILROAD OR UTILIT			\$	-					
	GRAND				\$	1,886,939.58					
	\$	1,887,000.00									
	CON	MMENTS:									
	_										

SPIDES SPINATE STRUCTURE STRUCTURE	MORRISON STRUCTURES, INC.												
Redding, CA 96001	1890 Park Marina Drive, Suite 104												
STRUCTURE Strongs Cr Bi on Riverwalk Replace 4C-085 COUNTY HUM RCVD BY Filter													
TYPE Signal Concept - CIP SLAB DIST. 1 ROUTE DINSMORE DR P.M.	g,												
LENGTH 99	STRUCTURE												
PROJECT INCLUDES 1 STRUCTURES QUANTITIES BY RLM DATE 8/29/2016	TYPE Signal Concept - CIP SLAB DIST. 1 ROUTE DINSMORE DR P.M.												
CONTRACT ITEMS										•			
CONTRACT ITEMS	PROJECT									8/29/2016			
STRUCTURE EXCAVATION (BRIDGE)	AND \$ ROADWORK CHECKED BY DATE												
STRUCTURE EXCAVATION (BRIDGE)			AMOUNT										
2 STRUCTURE BACKFILL (BRIDGE) 3 FURNISH CLASS 90 PILING ALT "V" LF 3832 \$ 46,00 \$ 176,272.00 5 STRUCTURAL CONCRETE, BRIDGE CY 800 \$ 1,050.00 \$ 840,000.00 6 JOINT SEAL (MR-I") LF 148 \$ 70.00 \$ 10,360.00 8 CONCRETE BARRIER (TYPE 732 SW) LF 280 \$ 280.00 \$ 78,400.00 9 TUBULAR HANDRAILING LF 280 \$ 70.00 \$ 19,600.00 9 TUBULAR HANDRAILING LF 280 \$ 70.00 \$ 19,600.00 1 \$ 5 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	1 STRUCTURE					·			\$				
3 FURNISH CLASS 90 PILING ALT "V"													
## DRIVE CLASS 90 PILING ALT "V" STRUCTURAL CONCRETE, BRIDGE CY 800 \$ 1,055.00 \$ 840,000.00													
B JOINT SEAL (IMR=1")					EA								
Total Control of Steel (BRIDGE)	5 STRUCTURA	L CONCRETE,	BRIDGE		CY	800	\$	1,050.00	\$	840,000.00			
Total Control of Steel (Bridge)					LF	148	\$	70.00	\$	10,360.00			
9 TUBULAR HANDRAILING		,	(BRIDGE)										
			E 732 SW)										
	9 TUBULAR HA	NDRAILING			LF	280		70.00	_	19,600.00			
S								-		-			
S								-	_	-			
S													
S													
S	-												
S													
S													
S													
S								-					
S								-		-			
S							\$	-	\$	-			
S								-		-			
S								-		-			
S								-		-			
S								-		-			
S								-		-			
S	 							-		-			
S	 									-			
SUBTOTAL \$ 1,452,557.00	 								_				
SUBTOTAL \$ 1,452,557.00								-	_	-			
SUBTOTAL \$ 1,452,557.00 MOBILIZATION (10 %) \$ 161,395.22 SUBTOTAL STRUCTURE ITEMS \$ 1,613,952.22 CONTINGENCIES (25 %) \$ 403,488.06 COSTS ESTIM FOR 2016 CONSTRUCTION BRIDGE TOTAL (\$ 275 / SF \$ 2,017,440.28 BRIDGE REMOVAL (CONTINGENCIES INCL) \$ 50,000.00 WORK BY RAILROAD OR UTILITY FORCES \$ -								-	_	-			
COMMENTS: MOBILIZATION (10 %) \$ 161,395.22 SUBTOTAL STRUCTURE ITEMS (25 %) \$ 1,613,952.22 CONTINGENCIES (25 %) \$ 403,488.06 BRIDGE TOTAL (\$ 275 / SF \$ 2,017,440.28 BRIDGE REMOVAL (CONTINGENCIES INCL) \$ 50,000.00 WORK BY RAILROAD OR UTILITY FORCES \$ -					SUBTO	TAL			_	1,452,557.00			
SUBTOTAL STRUCTURE ITEMS \$ 1,613,952.22	COMMENTS:				MOBILIZA	ATION (10	%)	т_	161,395.22			
COSTS ESTIM FOR 2016 CONSTRUCTION BRIDGE TOTAL (\$ 275 / SF \$ 2,017,440.28 BRIDGE REMOVAL (CONTINGENCIES INCL) \$ 50,000.00 WORK BY RAILROAD OR UTILITY FORCES \$ -					SUBTOTA								
BRIDGE REMOVAL (CONTINGENCIES INCL) \$ 50,000.00 WORK BY RAILROAD OR UTILITY FORCES \$ -									,				
WORK BY RAILROAD OR UTILITY FORCES \$ -	COSTS ESTIM FOR 2016 CONSTRUCTION												
						•				50,000.00			
										2.067.440.00			
	GRAND TOTAL FOR BUDGET PURPOSES - USE												
FOR BUDGET FURPOSES - USE \$ 2,000,000.00					FUR BU	DUEI FURFUSES -	USE		φ	2,000,000.00			
COMMENTS:					CON	MENTS:							
OSMMENTO.					0011								

MORRISON STRUCTURES, INC.											
1890 Park	1890 Park Marina Dr., Ste 104										
Redding, CA 96001											
BRIDGE GENERAL PLAN ESTIMATE OR PLANNING ESTIMATE X											
STRUCTURE Kenmar Rd Ret Wall RW@US101 COUNTY HUM RCVD. BY											
TYPE TYPE 1 & GRND ANCHOR DIST. 1 ROUTE US101 P.M.											
LENGTH 180 X WIDTH 14.5	=	2610 SF		EST. NO.		1					
PROJECT INCLUDES 1 ret wall STRUCTURES		QUANTITIES BY	RLM	DATE		9/2/2016					
AND \$ ROADWORK CHECKED BY DATE											
CONTRACT ITEMS	UNIT	QUANTITY		RICE		AMOUNT					
1 STRUCTURE EXCAVATION (RETAINING WALL)	CY	260		125.00	\$	32,500.00					
2 STRUCTURE EXCAVATION (GROUND ANCHOR WALL)	CY	106		125.00	\$	13,250.00					
3 STRUCTURE BACKFILL (RETAINING WALL)	CY	200	\$	125.00	\$	25,000.00					
4 STRUCTURE BACKFILL (GROUND ANCHOR WALL)	CY	10	\$	275.00	\$	2,750.00					
5 PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	CY	14	\$	205.00	\$	2,870.00					
6 GROUND ANCHOR	EA	60	\$	5,450.00	\$	327,000.00					
7 STRUCTURAL CONCRETE, RETAINING WALL	CY			825.00	\$	103,125.00					
8 BAR REINFORCING STEEL (RETAINING WALL)	LB	27150		1.35	\$	36,652.50					
9 STRUCTURAL SHOTCRETE	CY	56	\$	1,125.00	\$	63,000.00					
10 3" PLASTIC PIPE (RETAINING WALL)	LF	96	\$	32.00	\$	3,072.00					
11 GEOCOMPOSITE DRAIN	LS	1	\$	6,000.00	\$	6,000.00					
12 MINOR CONCRETE (GUTTER)	CY	6	\$	1,350.00	\$	8,100.00					
13 CABLE RAILING	LF	180	\$ \$	63.00	\$	11,340.00					
14	\$	<u> </u>									
16	15 \$ - 16 \$ -										
17	\$										
18			\$ \$	-	\$	=					
19			\$ \$	-	\$	=					
20			<u></u> \$	_	\$						
21			\$	-	\$						
22			\$	<u> </u>	\$						
23			\$		\$						
26			\$		\$						
27			\$		\$						
28			\$		\$						
29			\$		\$						
30			\$	_	\$						
31			\$	_	\$						
	SUBTO	TAL			\$	634,659.50					
COMMENTS:	MOBILIZA		10	%)	\$	70,517.72					
		AL STRUCTURE ITEMS	3	/	\$	705,177.22					
		GENCIES (25	%)	\$	176,294.31					
COST ESTIM FOR 2016 CONSTRUCTION	TOTAL	(/ SF	\$	881,471.53					
		REMOVAL (CONTINGE			\$						
		Y RAILROAD OR UTILI			\$	-					
	\$	881,471.53									
GRAND TOTAL \$ FOR BUDGET PURPOSES - USE \$											
	CON	MMENTS:									

MORRISON STRUCTURES, INC.										
1890 Park Marina Drive, Suite 104										
Redding, CA 96001 BRIDGE GENERAL PLAN ESTIMATE OR PLANNING ESTIMATE X										
BRIDGE GENERAL PLAN ESTIMAT			INNING E		X					
STRUCTURE KENMAR RD UC/HWY 101 (04-0128) TYPE PC PS I-GIRDER DIST.	Replace 1	ROUTE 101	<u> </u>	P.M.						
LENGTH 114 X WIDTH 86.33	=	9842 SF		EST. NO.		1				
PROJECT INCLUDES 1 STRUCTURE		QUANTITIES BY	RLM	DATE		9/2/2016				
AND \$ ROADWORK		CHECKED BY		DATE		0/2/2010				
, , , , , , , , , , , , , , , , , , , ,										
CONTRACT ITEMS	UNIT	QUANTITY	PF	RICE		AMOUNT				
1 TEMPORARY RAILING (TYPE K)	LF	1480	\$	45.00	\$	66,600.00				
2 STRUCTURE EXCAVATION (BRIDGE)	CY	3235	\$	80.00	\$	258,800.00				
3 STRUCTURE EXCAVATION (RET WALL)	CY	1320	\$	80.00	\$	105,600.00				
4 STRUCTURE BACKFILL (BRIDGE)	CY	1623	\$	80.00	\$	129,840.00				
5 STRUCTURE BACKFILL (RET WALL)	CY	700	\$	70.00	\$	49,000.00				
6 FURNISH PILING(CLASS 90)(ALT "V")	LF	12342	\$	40.00	\$	493,680.00				
7 DRIVE PILING (CLASS 90)(ALT "V")	EA	308	\$	1,275.00	\$	392,700.00				
8 STRUCTURAL CONCRETE APPROACH SLAB	CY	211 363	\$	1,150.00 450.00	\$ \$	242,650.00 163,350.00				
9 STRUCTURAL CONCRETE, BRIDGE FOOTING 10 STRUCTURAL CONCRETE, BRIDGE	CY	875	\$	1,200.00	\$	1,050,000.00				
·	CY	600	\$	1.000.00	<u> </u>	600,000.00				
11 STRUCTURAL CONCRETE, RETAINING WALL				· ·	\$					
12 FURNISH PC PS CONC GIRDER (110'-120')	EA	13	<u> </u>	30,420.00	\$	395,460.00				
13 ERECT PC PS CONC GIRDER	EA	13	\$	6,425.00	\$	83,525.00				
14 JOINT SEAL (MR=1")	LF	180	\$	75.00	\$	13,500.00				
15 BAR REINFORCING STEEL (BRIDGE)	LB	206000	\$	1.35	\$	278,100.00				
16 BAR REINFORCING STEEL (RETAINING WALL)	LB LF	71000 348	\$	1.35 230.00	\$ \$	95,850.00 80,040.00				
17 CONCRETE BARRIER (TYPE 742)	LF	340	\$	230.00	\$	60,040.00				
			\$		\$					
			\$		\$	_				
			\$	-	\$					
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
			\$		\$					
			\$	-	\$	-				
			\$	-	\$	-				
<u> </u>			\$	-	\$	-				
			\$		\$					
			\$		\$					
			\$	_	\$	_				
	1		\$	-	\$	_				
	1		\$	-	\$	-				
	<u> </u>		\$	-	\$	-				
			\$	-	\$	-				
			\$	-	\$	-				
		<u> </u>	\$	-	\$	-				
004445470 007405 554045	SUBTO		,		\$	4,498,695.00				
COMMENTS: 2-STAGE REMOVE AND REPLACE	MOBILIZA	,	10	%)	\$	499,855.00 4.998.550.00				
		AL STRUCTURE ITEMS SENCIES (25	%)	\$	1,249,637.50				
Ret Wall type Wing Walls on Piles COSTS ESTIM FOR 2016 CONSTRUCTION	BRIDGE T		·	/ SF	\$	6,248,187.50				
SSS S LOTIMAT SIX 2010 CONSTITUTION	-	REMOVAL (CONTINGE			\$	180,000.00				
		Y RAILROAD OR UTILIT			\$					
	GRAND					6,428,187.50				
		DGET PURPOSES -	USE		\$	6,429,000.00				
	CON	MMENTS:								
										