

ATTACHMENT F

PR COST ESTIMATES

NOTE: Funding for the Beltway Operational Improvements Project (see *Local Planning* section of this report) is estimated at \$113 Million and its funding is included in the total project cost contained in this estimate.

CALTRANS
PRELIMINARY
PROJECT COST ESTIMATE

11- PAGE ESTIMATE

Type of Estimate : PA/ED
 Program Code : 20.10.400.200
 Project Limits : 06-Ker-58, PM T31.7 - R55.6
 06-Ker-99, PM 21.2 - 26.2
 Description: On Route 58 in Bakersfield between Interstate 5 and Cottonwood Road
 Scope : To join Westside Parkway to 58E and route adopt Westside Parkway to become SR 58 by constructing a new 6 lane facility with sufficient R/W for ultimate build of 8 lanes
 Alternative : Build Alternative (Alternative A) At Grade and Elevated Alignment on Fill (West of SR 99)

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 282,137,000.00	\$ 296,502,000.00
STRUCTURE ITEMS	\$ 134,150,000.00	\$ 140,564,000.00
SUBTOTAL CONSTRUCTION COST	\$ 416,287,000.00	\$ 437,066,000.00
RIGHT OF WAY	\$ 229,754,000.00	\$ 253,894,000.00
TOTAL CAPITAL COST	\$ 646,041,000.00	\$ 690,960,000.00
PA/ED SUPPORT	\$ 39,000,000.00	\$ 39,000,000.00
PS&E SUPPORT	\$ 46,000,000.00	\$ 46,000,000.00
RIGHT OF WAY SUPPORT	\$ 15,000,000.00	\$ 15,000,000.00
CONSTRUCTION SUPPORT	\$ 50,000,000.00	\$ 50,000,000.00
TOTAL SUPPORT COST	\$ 150,000,000.00	\$ 150,000,000.00

TOTAL PROJECT COST	\$ 797,000,000.00	\$ 841,000,000.00
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	month	year
Date (Month/Year) of Estimate	8	/ 2013
Estimated Date (Month/Year) of Construction	8	/ 2016
Number of Months of Escalation	36	
Number of Years of Escalation	3.00	
If Project has been programmed enter Programmed Amount	\$ -	
Number of Working Days	600	
Number of Plant Establishment Days	1095	

Estimated Project Schedule

PID Approval	Month-Year	1 / 2012
PA/ED Approval	Month-Year	2 / 2014
PS&E - R/W Certification	Month-Year	3 / 2016
RTL	Month-Year	5 / 2016
Begin Construction	Month-Year	8 / 2016

Reviewed by City Program Manager	<i>Theodore D. Wright</i> Theodore D. Wright	Date	9/10/13	Phone	(661)326-3473
Approved by Project Manager	<i>Joel Haven</i> Joel Haven	Date	9/3/2013	Phone	(619)515-5115

Escalation rates used in this estimate for Support Cost are 3% per year. Escalation rates used in this estimate for Highway Construction Capital Costs are 3.0% compounded annually to Construction year.

PRELIMINARY
PROJECT COST ESTIMATE

I. ROADWAY ITEMS

Section		Cost
1	Earthwork _____	\$ 21,325,000
2	Structural Section _____	\$ 19,075,700
3	Drainage _____	\$ 19,019,200
4	Specialty Items _____	\$ 40,949,200
5	Environmental _____	\$ 38,126,200
	5A Environmental Mitigation \$ 15,150,000	
	5B Landscape and Irrigation \$ 12,585,600	
	5C NPDES \$ 9,521,570	
6	Traffic Items _____	\$ 11,853,300
	6A Electrical \$ 7,281,550	
	6B Signing and Striping \$ 405,250	
	6C Traffic Management Plan \$ 2,330,000	
	6D Traffic Control \$ 1,836,500	
7	Detours _____	\$ 3,261,700
8	Minor Items _____	\$ 15,361,100
9	Roadway Mobilization _____	\$ 16,897,200
10	Supplemental Work _____	\$ 19,037,600
11	State Furnished _____	\$ 4,947,800
12	Contingencies _____	\$ 41,970,800
13	Overhead _____	\$ 30,312,200
TOTAL ROADWAY ITEMS		\$ 282,137,000

Estimate Prepared By :	Daniel Wagner	8/28/2013	(619)515-5102
	Name	Date	Phone
Estimate Reviewed By :	Glen Parker	8/28/2013	(619)515-5108
	Name	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

PRELIMINARY
PROJECT COST ESTIMATE

SECTION 1 EARTHWORK

Item code		<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
190101	Roadway Excavation	CY	1,000,000	x	4.00	= \$	4,000,000
198001	Impored Borrow	CY	1,725,000	x	8.00	= \$	13,800,000
192037	Structure Excavation (Retaining Wall)	CY	5,000	x	35.00	= \$	175,000
193013	Structure Backfill (Retaining Wall)	CY	100,000	x	29.00	= \$	2,900,000
160101	Clearing & Grubbing	LS	1	x	400,000.00	= \$	400,000
170101	Develop Water Supply	LS	1	x	50,000.00	= \$	50,000

TOTAL EARTHWORK SECTION ITEMS	\$ 21,325,000
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Section 2 STRUCTURAL SECTION

Item code		<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
401000	Concrete Pavement	CY	38,500	x	130.00	= \$	5,005,000
280000	Lean Concrete Base	CY	15,900	x	75.00	= \$	1,192,500
390132	Hot Mix Asphalt (Type A)	TON	115,600	x	72.00	= \$	8,323,200
260201	Class 2 Aggregate Base	CY	73,000	x	30.00	= \$	2,190,000
250201	Class 2 Aggregate Subbase	CY	9,000	x	25.00	= \$	225,000
374002	Asphaltic Emulsion (Fog Seal Coat) Roadway Shldrs	TON	65	x	736.00	= \$	47,840
731530	Minor Concrete (Textured Paving)	SQFT	21,000	x	8.00	= \$	168,000
731502	Minor Concrete (Misc. Const) Curb, Sidewalk	CY	5,000	x	350.00	= \$	1,750,000
394071	Place Hot Mix Asphalt Dike	LF	88,000	x	0.80	= \$	70,400
394090	Place Hot Mix Asphalt (Misc. Area)	SQFT	83,000	x	1.25	= \$	103,750

TOTAL STRUCTURAL SECTION ITEMS	\$ 19,075,700
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PRELIMINARY
PROJECT COST ESTIMATE

SECTION 3 DRAINAGE

<i>Item code</i>		<i>Unit</i>	<i>Quantity</i>		<i>Price</i>	<i>Amount</i>
150206	Abandon Culvert	LF	10,100	x	12.00	= \$ 121,200
510502	Minor Concrete (Minor Structure)	CY	4,000	x	1,300.00	= \$ 5,200,000
650018	24" RCP Pipe	LF	21,900	x	80.00	= \$ 1,752,000
650022	30" RCP Pipe	LF	7,500	x	95.00	= \$ 712,500
650026	36" RCP Pipe	LF	5,400	x	130.00	= \$ 702,000
650030	42" RCP Pipe	LF	1,200	x	300.00	= \$ 360,000
650034	48" RCP Pipe	LF	1,200	x	350.00	= \$ 420,000
650038	60" RCP Pipe	LF	900	x	450.00	= \$ 405,000
XXXXXX	Inlet	EA	93	x	5,000.00	= \$ 465,000
750001	Miscellaneous Iron and Steel	LB	1,885,000	x	1.10	= \$ 2,073,500
XXXXXX	Modify Pump Station	EA	1	x	100,000.00	= \$ 100,000
XXXXXX	Pump Station	EA	3	x	500,000.00	= \$ 1,500,000
XXXXXX	Additional Drainage	LS	1	x	5,208,000.00	= \$ 5,208,000

TOTAL DRAINAGE ITEMS	\$ 19,019,200
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SECTION 4 SPECIALTY ITEMS

<i>Item code</i>		<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>	<i>Cost</i>
070012	Progress Schedule (Critical Path Method)	LS	1	x	10,000.00	= \$ 10,000
518002	Sound Wall (Masonry Block)	SQFT	400,047	x	15.00	= \$ 6,000,705
510524	Minor Concrete (Sound Wall)	CY	2,626	x	675.00	= \$ 1,772,550
800300	Chain Link Fence (Type CL-6)	LF	84,500	x	8.00	= \$ 676,000
802501	4' Chain Link Gate (Type CL-6)	EA	85	x	800.00	= \$ 68,000
832001	Metal Beam Guard Railing	LF	1,900	x	22.00	= \$ 41,800
839310	Double Thrie Beam Barrier	LF	400	x	50.00	= \$ 20,000
49XXXX	CIDH Concrete Piling (<i>Insert Diameter</i>)	LF	22,000	x	50.00	= \$ 1,100,000
839XXX	Crash Cushion (<i>Insert Type</i>)	EA	5	x	3,000.00	= \$ 15,000
8397XX	Concrete Barrier (Type 736S)	LF	16,800	x	90.00	= \$ 1,512,000
839736	Concrete Barrier (Type 742A)	LF	20,900	x	100.00	= \$ 2,090,000
839706	Concrete Barrier (Type 60G)	LF	26,000	x	55.00	= \$ 1,430,000
520103	Bar Reinf. Steel (Ret. Wall)	LB	5,254,100	x	0.80	= \$ 4,203,280
510060	Structural Concrete (Retaining Wall)	CY	54,400	x	325.00	= \$ 17,680,000
511035	Architectural Treatment	SQFT	500,000	x	6.00	= \$ 3,000,000
511048	Apply Anti-Graffiti Coating	SQFT	1,300,094	x	1.00	= \$ 1,300,094
8395XX	End Anchor Assembly (<i>Insert Type</i>)	EA	35	x	850.00	= \$ 29,750

TOTAL SPECIALTY ITEMS	\$ 40,949,200
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Section 5 ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code	Unit	Quantity		Price		Amount
Biological Mitigation	LS	1	x	15,140,000.00	=	\$ 15,140,000
071325 Temporary Fence (Type ESA)	LS	1	x	10,000.00	=	\$ 10,000
<u>Subtotal Environmental</u>						<u>\$ 15,150,000</u>

5B - LANDSCAPE AND IRRIGATION

Item code	Unit	Quantity		Price		Amount
200001 Highway Planting	LS	1	x	4,800,000.00	=	\$ 4,800,000
208000 Irrigation System	LS	1	x	3,200,000.00	=	\$ 3,200,000
204099 Plant Establishment Work (1-year)	LS	1	x	500,000.00	=	\$ 500,000
204101 Plant Establishment Work (4-year)	LS	1	x	2,000,000.00	=	\$ 2,000,000
201700 Imported Topsoil	CY	30,000	x	20.00	=	\$ 600,000
203026 Move In/ Move Out (Erosion Control)	EA	20	x	700.00	=	\$ 14,000
209801 Maintenance Vehicle Pullout	EA	20	x	8,000.00	=	\$ 160,000
203002 Erosion Control (Compost Blanket)	CY	17,000	x	28.00	=	\$ 476,000
203025 Compost (Incorporate)	SF	100,000	x	0.50	=	\$ 50,000
203027 Erosion Control (Bonded Fiber Matrix)	SF	3,530,000	x	0.22	=	\$ 776,600
203034 Rolled Erosion Control Product (Netting)	SF	30,000	x	0.30	=	\$ 9,000
<u>Subtotal Landscape and Irrigation</u>						<u>\$ 12,585,600</u>

5C - NPDES

Item code	Unit	Quantity		Price		Amount
074019 Prepare SWPPP	LS	1	x	63,000.00	=	\$ 63,000
074016 Construction Site Management	LS	1	x	785,000.00	=	\$ 785,000
074051 Temporary Erosion Control Hydraulic Mulch	SQYD	1,600,000	x	0.20	=	\$ 320,000
074037 Move In/ Move Out (Temporary Erosion Control)	EA	40	x	550.00	=	\$ 22,000
074028 Temporary Fiber Roll	LF	110,300	x	2.00	=	\$ 220,600
074032 Temporary Concrete Washout Facility	EA	20	x	2,500.00	=	\$ 50,000
074033 Temporary Construction Entrance	EA	50	x	1,800.00	=	\$ 90,000
074035 Temporary Check Dam	LF	73,900	x	2.30	=	\$ 169,970
074038 Temp. Drainage Inlet Protection	EA	530	x	100.00	=	\$ 53,000
074041 Street Sweeping	LS	1	x	699,000.00	=	\$ 699,000
203021 Fiber Rolls	LF	735,000	x	2.00	=	\$ 1,470,000
203025 Compost (Incorporate)	SQYD	1,068,000	x	4.50	=	\$ 4,806,000
203030 Erosion Control (Polymer Stabilized Fiber Matrix)	ACRE	230	x	2,500.00	=	\$ 575,000
203034 Rolled Erosion Control Product (Netting)	SF	660,000	x	0.30	=	\$ 198,000
Supplemental Work for NPDES						
066595 Water Pollution Control Maint. Sharing*	LS	1	x	623,000.00	=	\$ 623,000
066596 Additional Water Pollution Control	LS	1	x	236,000.00	=	\$ 236,000
066597 Storm Water Sampling and Analysis*	LS	1	x	10,000.00	=	\$ 10,000
<u>Subtotal NPDES (Without Supplemental Work)</u>						<u>\$ 9,521,570</u>

* Applies only to project with SWPPP's

TOTAL ENVIRONMENTAL	\$ 38,126,200
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PRELIMINARY
PROJECT COST ESTIMATE

Section 6 TRAFFIC ITEMS

6A - Traffic Electrical

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
860460	Lighting & Sign Illumination	LS	1	x	2,000,000.00	=	\$ 2,000,000
861504	Modify Lighting & Sign Illumination	LS	1	x	300,000.00	=	\$ 300,000
860201	Signals & Lighting	LS	1	x	200,000.00	=	\$ 200,000
861501	Modify Signals & Lighting	LS	1	x	360,000.00	=	\$ 360,000
860812	Microwave Vehicle Detection System	EA	9	x	14,000.00	=	\$ 126,000
86XXXX	Modify Microwave Vehicle Detection System	EA	5	x	8,000.00	=	\$ 40,000
860990	Closed Circuit Television System	EA	18	x	35,000.00	=	\$ 630,000
86XXXX	Modify Closed Circuit Television System	EA	6	x	22,000.00	=	\$ 132,000
86XXXX	Remote Processing Unit	EA	4	x	100,000.00	=	\$ 400,000
86XXXX	Remove Signals & Lighting	LS	1	x	55,000.00	=	\$ 55,000
8611XX	Ramp Metering System	EA	3	x	75,000.00	=	\$ 225,000
560208	Furnish Sign Structure (Tubular)	LB	363,000	x	3.25	=	\$ 1,179,750
560209	Install Sign Structure (Tubular)	LB	363,000	x	0.40	=	\$ 145,200
561016	60" CIDHC Pile (Sign Foundation)	LF	1,190	x	700.00	=	\$ 833,000
860925	Traffic Monitoring Stations (Count)	EA	4	x	50,000.00	=	\$ 200,000
860889	Modify Traffic Monitoring Station	EA	1	x	18,000.00	=	\$ 18,000
86XXXX	Modify Irrigation Controller Enclosure Cabinet	EA	2	x	2,000.00	=	\$ 4,000
150757	Remove Sign Structure	EA	33	x	7,000.00	=	\$ 231,000
560203	Furnish Sign Structure (Bridge Mounted)	LB	32,000	x	4.00	=	\$ 128,000
560204	Install Sign Structural (Bridge Mounted)	LB	32,000	x	2.30	=	\$ 73,600
860090	Maintain Existing Traffic Management System Elements During Construction	LS	1	x	1,000.00	=	\$ 1,000
<i>Subtotal Traffic Electrical</i>							<u>\$ 7,281,550</u>

6B - Traffic Signing and Striping

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
566011	Roadside Sign (One Post)	EA	280	x	300.00	=	\$ 84,000
566012	Roadside Sign (Two Post)	EA	60	x	600.00	=	\$ 36,000
560XXX	Furnish Sign Panels	LS	1	x	100,000.00	=	\$ 100,000
820107	Delineator (Class 1)	EA	650	x	35.00	=	\$ 22,750
840501	Permanent Pavement Delineation	LF	650,000	x	0.25	=	\$ 162,500
<i>Subtotal Traffic Signing and Striping</i>							<u>\$ 405,250</u>

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
860530	Changeable Message Signs	EA	1	x	500,000.00	=	\$ 500,000
128650	Portable Changeable Message Signs	EA	25	x	6,000.00	=	\$ 150,000
120090	Construction Area Signs	LS	1	x	30,000.00	=	\$ 30,000
860520	Modify Highway Advisory Radio System	LS	1	x	150,000.00	=	\$ 150,000
XXXXXX	Traffic Management Team	LS	1	x	250,000.00	=	\$ 250,000
XXXXXX	Web Cameras	LS	1	x	250,000.00	=	\$ 250,000
XXXXXX	Alternative Routes	LS	1	x	1,000,000.00	=	\$ 1,000,000
<i>Subtotal Traffic Management Plan</i>							<u>\$ 2,330,000</u>

6D - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
120199	Traffic Plastic Drum	EA	800	x	40.00	=	\$ 32,000
120120	Type III Barricade	EA	270	x	90.00	=	\$ 24,300
129100	Crash Cushion Module	EA	540	x	160.00	=	\$ 86,400
120100	Traffic Control System	WD	600	x	1,500.00	=	\$ 900,000
129000	Concrete Barrier (Type K)	LF	74,000	x	10.00	=	\$ 740,000
120143	Temporary Pavement Delineation	LF	269,000	x	0.20	=	\$ 53,800
<i>Subtotal Stage Construction and Traffic Handling</i>							<u>\$ 1,836,500</u>

TOTAL TRAFFIC ITEMS	\$ 11,853,300
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PRELIMINARY
PROJECT COST ESTIMATE

Section 7 DETOURS*

Item code	Unit	Quantity		Unit Price (\$)		Cost
190101 Roadway Excavation	CY	40,000	x	4.00	= \$	160,000
198001 Imported Borrow	CY	60,000	x	8.00	= \$	480,000
390132 Hot Mix Asphalt (Type A)	TON	16,000	x	72.00	= \$	1,152,000
260201 Class 2 Aggregate Base	CY	19,000	x	30.00	= \$	570,000
250201 Class 2 Aggregate Subbase	CY	9,000	x	25.00	= \$	225,000
07XXXX Temporary Drainage	LS	1	x	526,000.00	= \$	526,000
129000 Temporary Railing (Type K)	LF	9,600	x	8.00	= \$	76,800
120143 Temporary Pavement Delineation	LF	29,400	x	0.20	= \$	5,880
0713XX Temporary Fence (Type X)	LF	6,600	x	10.00	= \$	66,000

* Includes constructing, maintaining, and removal

TOTAL DETOURS	\$ 3,261,700
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SUBTOTAL SECTIONS 1-7 \$ 153,610,300

Section 8 MINOR ITEMS (Use Appropriate percentage between 5%-10%)

Total of Section 1-7 153,610,300 x 10% = \$ 15,361,030

TOTAL MINOR ITEMS	\$ 15,361,100
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Section 9 ROADWAY MOBILIZATION*

999990	Total Section 1-8	\$	168,971,400	x	10%	= \$	16,897,140
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TOTAL MOBILIZATION	\$ 16,897,200
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* For Project less than 50 Working Days "Mobilization" is not required as a separate contract item, however contract item prices should take into consideration mobilization as part of the price.

Note: If the building portion of the project is greater than 50% of the total project cost, then mobilization is not included.

Section 10 SUPPLEMENTAL WORK

Total Section 1-8 = \$ 168,971,400 10% = \$ 16,897,140

Item code	Unit	Quantity		Unit Price (\$)		Cost
066666 Compensation Adjustment for Price Index Fluctuations of Paving Asphalt	LS	1	x	698,700.00	= \$	698,700
066094 Value Analysis	LS	1	x	10,000.00	= \$	10,000
066090 Maintain Traffic	WD	600	x	700.00	= \$	420,000
066920 Dispute Review Board	LS	1	x	31,875.00	= \$	31,875
066015 Federal Trainee Program	LS	1	x	20,800.00	= \$	20,800
066700 Partnering	LS	1	x	90,000.00	= \$	90,000

NPDES Supplemental Work specified in Section 5C = \$ 869,000

TOTAL SUPPLEMENTAL WORK	\$ 19,037,600
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II. STRUCTURES ITEMS

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Coffee Road UC (Widen)	Friant Kern Canal Bridge On-Ramp	SR-58/Westside Parkway Connector
Bridge Number	50C-0349	Connector 50C-XXXX	Separation 50-XXXX
Structure Type	PC/PS Concrete I-Girder	PC/PS Concrete I-Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	11.67 & Var LF	38.83 LF	46.96 LF
Total Bridge Length (Feet)	198.33 LF	172.42 LF	686.50 LF
Total Area (Square Feet)	3,530 SQFT	6724 SQFT	32237 SQFT
Structure Depth (Feet)	5.21 to 6.42 LF	6.78 & 3.75 LF	8.50 LF
Footing Type (pile or spread)	Spread	Pile	Pile
Cost Per Square Foot	\$272	\$245	\$221

COST OF EACH STRUCTURE	\$960,000.00	\$1,650,000.00	\$7,140,000.00
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	Bridge 4	Bridge 5	Bridge 6
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Westside Parkway On-Ramp	Kern River Bridge	Truxtun Avenue UC
Bridge Number	Connector OC 50-XXXX	50-XXXX R/L	50-XXXX R/L
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	
Width (Feet) [out to out]	38.96 LF	140.79 LF	133.92 LF
Total Bridge Length (Feet)	435.00 LF	1012.00 LF	150.00 LF
Total Area (Square Feet)	16947 SQFT	142480 SQFT	20088 SQFT
Structure Depth (Feet)	7.00 LF	6.50 LF	6.75 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$167	\$187	\$299

COST OF EACH STRUCTURE	\$3,040,000.00	\$26,710,000.00	\$6,000,000.00
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TOTAL COST OF BRIDGES SHEET 9-1	\$45,500,000.00
TOTAL COST OF BRIDGES SHEET 9-2	\$42,910,000.00
TOTAL COST OF BRIDGES SHEET 9-3	\$34,830,000.00
TOTAL COST OF BRIDGES SHEET 9-4	\$10,910,000.00

TOTAL COST OF STRUCTURES¹	\$134,150,000.00
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Estimate Prepared By: Mohsen Mohseni
Name

6/22/2012
Date

¹Structure's Estimate includes Overhead and Mobilization.

PRELIMINARY
PROJECT COST ESTIMATE

	<u>Bridge 1</u>	<u>Bridge 2</u>	<u>Bridge 3</u>
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Lennox Ave & California UC	Business Center Drive UC	Stockdale Highway UC
Bridge Number	50-0XXX	50-XXXXL/R	50-XXXX R/L
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	140.98 LF	125.94 LF	125.92 LF
Total Bridge Length (Feet)	610.00 LF	182.00 LF	351.42 LF
Total Area (Square Feet)	85,997 SQFT	22921 SQFT	44251 SQFT
Structure Depth (Feet)	8.75 LF	7.17 LF	7.25 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$197	\$181	\$216

COST OF EACH STRUCTURE	\$16,970,000.00	\$4,150,000.00	\$9,540,000.00
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	<u>Bridge 4</u>	<u>Bridge 5</u>	<u>Bridge 6</u>
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Montclair Street UC	Stine Road UC	S. Real Road UC
Bridge Number	50-XXXX R/L	50-XXXX R/L	50-XXXX R/L
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	125.94 LF	120.42 LF	156.75 LF
Total Bridge Length (Feet)	130.33 LF	113.83 LF	137.00 LF
Total Area (Square Feet)	16414 SQFT	13707 SQFT	21475 SQFT
Structure Depth (Feet)	6.00 LF	5.00 LF	6.00 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$317	\$220	\$188

COST OF EACH STRUCTURE	\$5,200,000.00	\$3,010,000.00	\$4,040,000.00
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TOTAL COST OF BRIDGES THIS SHEET	\$42,910,000.00
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PRELIMINARY
PROJECT COST ESTIMATE

	<u>Bridge 1</u>	<u>Bridge 2</u>	<u>Bridge 3</u>
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	WB SR-58 Off-Ramp Grade Separation	WB SR-58 Over SR-99 (Widen)	NB SR-99 to WB SR-58 Connector
Bridge Number	50-XXXX	50-0426F	50-XXXX
Structure Type	Cut-and-Cover CIP R/C Tunnel	CIP/PS Concrete Box Girder (Cast High and Low)	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	33.83 LF	20 & Var LF	41.96 LF
Total Bridge Length (Feet)	173.00 LF	391.67 LF	2076.83 LF
Total Area (Square Feet)	5,853 SQFT	11,701 SQFT	87140 SQFT
Structure Depth (Feet)	2.50 LF	5.00 LF	8.00 LF
Footing Type (pile or spread)	Pile and Spread	Pile	Pile
Cost Per Square Foot	\$537	\$202	\$205

COST OF EACH STRUCTURE	\$3,140,000.00	\$2,360,000.00	\$17,840,000.00
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	<u>Bridge 4</u>	<u>Bridge 5</u>	<u>Bridge 6</u>
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	SR99 to EB58 Connector Separation	NB99-EB58 (Wible Road) UC	Ming Ave Off-Ramp Connector Separation
Bridge Number	50-XXXX	50-XXXX	50-XXXX
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	58.96 & Var LF	41.96 LF	26.96 LF
Total Bridge Length (Feet)	505.00 LF	280.00 LF	620.00 LF
Total Area (Square Feet)	28736 SQFT	11749 SQFT	16714 SQFT
Structure Depth (Feet)	8.08 LF	5.00 LF	7.25 LF
Footing Type (pile or spread)	Pile	Spread	Pile
Cost Per Square Foot	\$198	\$155	\$238

COST OF EACH STRUCTURE	\$5,700,000.00	\$1,820,000.00	\$3,970,000.00
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TOTAL COST OF BRIDGES THIS SHEET	\$34,830,000.00
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	<u>Bridge 1</u>	<u>Bridge 2</u>	<u>Bridge 3</u>
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Belle Terrace Ave OC (Replace)	South "P" Street UC (Widen)	Madison Street UC (Widen)
Bridge Number	50-XXXX	50-0405 R/L	50-407 R/L
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder (Cast-High and Lower)	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	82 & Var LF	Var LF	33.92 LF
Total Bridge Length (Feet)	292.00 LF	125.50 LF	125.50 LF
Total Area (Square Feet)	24844 SQFT	5,763 SQFT	4257 SQFT
Structure Depth (Feet)	6.00 LF	5.00 LF	5.00 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$239	\$333	\$256

COST OF EACH STRUCTURE	\$5,940,000.00	\$1,920,000.00	\$1,090,000.00
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	<u>Bridge 4</u>
DATE OF ESTIMATE	06/22/12
Bridge Name	Bakersfield Corral OH (Widen)
Bridge Number	50-0383RL
Structure Type	CIP R/C Box Girder
Width (Feet) [out to out]	Var LF
Total Bridge Length (Feet)	165.31 LF
Total Area (Square Feet)	5607 SQFT
Structure Depth (Feet)	3.50 LF
Footing Type (pile or spread)	Pile
Cost Per Square Foot	\$350

COST OF EACH STRUCTURE	\$1,960,000.00
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TOTAL COST OF BRIDGES THIS SHEET	\$10,910,000.00
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PRELIMINARY
PROJECT COST ESTIMATE

IV. SUPPORT COST ESTIMATE SUMMARY

SB-45 CATEGORY SUPPORT COST	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	P3 Total	Support Ratio
PA/ED (PD,PE,PM)				39,000,000						39,000,000	6.0%
ESCALATED COST:	0	0	0	39,000,000	0	0	0	0	0	39,000,000	
PS&E (PS)					46,000,000					46,000,000	7.1%
ESCALATED COST:	0	0	0	0	46,000,000	0	0	0	0	46,000,000	
R/W (RW)					15,000,000					15,000,000	2.3%
ESCALATED COST:	0	0	0	0	15,000,000	0	0	0	0	15,000,000	
CONSTRUCTION (CM)								50,000,000		50,000,000	7.7%
ESCALATED COST:	0	0	0	0	0	0	0	50,000,000	0	50,000,000	
Total Support Cost:	0	0	0	39,000,000	61,000,000	0	0	50,000,000	0	150,000,000	

Total Capital Cost:	\$646,041,000
Overall Percent Support Cost:	23.2%

CALTRANS
PRELIMINARY
PROJECT COST ESTIMATE

11- PAGE ESTIMATE

Type of Estimate : PA/ED
 Program Code : 20.10.400.200
 Project Limits : 06-Ker-58, PM T31.7 - R55.6
 06-Ker-99, PM 21.2 - 26.2
 Description: On Route 58 in Bakersfield between Interstate 5 and Cottonwood Road
 Scope : To join Westside Parkway to 58E and route adopt Westside Parkway to become SR 58 by constructing a new 6 lane facility with sufficient R/W for ultimate build of 8 lanes
 Alternative : Build Alternative (Alternative B) Depressed Alignment (West of SR 99)

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 243,953,000.00	\$ 255,995,000.00
STRUCTURE ITEMS	\$ 127,770,000.00	\$ 133,958,000.00
SUBTOTAL CONSTRUCTION COST	\$ 371,723,000.00	\$ 389,953,000.00
RIGHT OF WAY	\$ 155,860,000.00	\$ 180,000,000.00
TOTAL CAPITAL COST	\$ 527,583,000.00	\$ 569,953,000.00
PAVED SUPPORT	\$ 39,000,000.00	\$ 39,000,000.00
PS&E SUPPORT	\$ 41,000,000.00	\$ 41,000,000.00
RIGHT OF WAY SUPPORT	\$ 15,000,000.00	\$ 15,000,000.00
CONSTRUCTION SUPPORT	\$ 45,000,000.00	\$ 45,000,000.00
TOTAL SUPPORT COST	\$ 140,000,000.00	\$ 140,000,000.00

TOTAL PROJECT COST	\$ 668,000,000.00	\$ 710,000,000.00
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	month year
Date (Month/Year) of Estimate	8 / 2013
Estimated Date (Month/Year) of Construction	8 / 2016
Number of Months of Escalation	36
Number of Years of Escalation	3.00
If Project has been programmed enter Programmed Amount	\$ -
Number of Working Days	600
Number of Plant Establishment Days	1095

Estimated Project Schedule

PID Approval	Month-Year	1 / 2012
PA/ED Approval	Month-Year	2 / 2014
PS&E - R/W Certification	Month-Year	3 / 2016
RTL	Month-Year	5 / 2016
Begin Construction	Month-Year	8 / 2016

Reviewed by City Program Manager Theodore D. Wright 9/10/13 (661)326-3475 3575

Name	City Program Manager	Date	Phone
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Approved by Project Manager Joel Haven 9/3/2013 (619)515-5115

Name	Project Manager	Date	Phone
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Escalation rates used in this estimate for Support Cost are 3% per year. Escalation rates used in this estimate for Highway Construction Capital Costs are 3.0% compounded annually to Construction year.

PRELIMINARY
PROJECT COST ESTIMATE

I. ROADWAY ITEMS

	Section	Cost
1	Earthwork _____	\$ 16,060,000
2	Structural Section _____	\$ 17,388,000
3	Drainage _____	\$ 10,973,700
4	Specialty Items _____	\$ 37,526,300
5	Environmental _____	\$ 34,115,400
	5A Environmental Mitigation \$ 12,240,000	
	5B Landscape and Irrigation \$ 11,209,200	
	5C NPDES \$ 9,808,200	
6	Traffic Items _____	\$ 12,180,400
	6A Electrical \$ 7,623,550	
	6B Signing and Striping \$ 417,000	
	6C Traffic Management Plan \$ 2,330,000	
	6D Traffic Control \$ 1,809,800	
7	Detours _____	\$ 3,296,000
8	Minor Items _____	\$ 13,154,000
9	Roadway Mobilization _____	\$ 14,469,400
10	Supplemental Work _____	\$ 16,477,300
11	State Furnished _____	\$ 4,947,800
12	Contingencies _____	\$ 36,117,700
13	Overhead _____	\$ 27,246,400
TOTAL ROADWAY ITEMS		\$ 243,952,400

Estimate Prepared By :	Daniel Wagner	8/28/2013	(619)515-5102
	Name	Date	Phone
Estimate Reviewed By :	Glen Parker	8/28/2013	(619)515-5108
	Name	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

PRELIMINARY
PROJECT COST ESTIMATE

SECTION 1 EARTHWORK

Item code		<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
190101	Roadway Excavation	CY	950,000	x	4.00	= \$	3,800,000
198001	Impored Borrow	CY	1,100,000	x	8.00	= \$	8,800,000
192037	Structure Excavation (Retaining Wall)	CY	6,000	x	35.00	= \$	210,000
193013	Structure Backfill (Retaining Wall)	CY	100,000	x	29.00	= \$	2,900,000
160101	Clearing & Grubbing	LS	1	x	300,000.00	= \$	300,000
170101	Develop Water Supply	LS	1	x	50,000.00	= \$	50,000

TOTAL EARTHWORK SECTION ITEMS	\$ 16,060,000
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Section 2 STRUCTURAL SECTION

Item code		<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
401000	Concrete Pavement	CY	40,000	x	130.00	= \$	5,200,000
280000	Lean Concrete Base	CY	16,500	x	75.00	= \$	1,237,500
390132	Hot Mix Asphalt (Type A)	TON	95,500	x	72.00	= \$	6,876,000
260201	Class 2 Aggregate Base	CY	60,000	x	30.00	= \$	1,800,000
250201	Class 2 Aggregate Subbase	CY	9,000	x	25.00	= \$	225,000
374002	Asphaltic Emulsion (Fog Seal Coat) Roadway Shldrs	TON	60	x	736.00	= \$	44,160
731530	Minor Concrete (Textured Paving)	SQFT	13,000	x	8.00	= \$	104,000
731502	Minor Concrete (Misc. Const) Curb, Sidewalk	CY	5,000	x	350.00	= \$	1,750,000
394071	Place Hot Mix Asphalt Dike	LF	75,000	x	0.80	= \$	60,000
394090	Place Hot Mix Asphalt (Misc. Area)	SQFT	73,000	x	1.25	= \$	91,250

TOTAL STRUCTURAL SECTION ITEMS	\$ 17,388,000
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PRELIMINARY
PROJECT COST ESTIMATE

SECTION 3 DRAINAGE

Item code		Unit	Quantity		Price		Amount
150206	Abandon Culvert	LF	11,100	x	12.00	= \$	133,200
510502	Minor Concrete (Minor Structure)	CY	900	x	1,300.00	= \$	1,170,000
650018	24" RCP Pipe	LF	30,000	x	80.00	= \$	2,400,000
650022	30" RCP Pipe	LF	8,000	x	95.00	= \$	760,000
650026	36" RCP Pipe	LF	3,000	x	130.00	= \$	390,000
XXXXXX	Inlet	EA	150	x	5,000.00	= \$	750,000
750001	Miscellaneous Iron and Steel	LB	175,000	x	1.10	= \$	192,500
XXXXXX	Modify Pump Station	EA	1	x	100,000.00	= \$	100,000
XXXXXX	Pump Station	EA	4	x	500,000.00	= \$	2,000,000
XXXXXX	Additional Drainage	LS	1	x	3,078,000.00	= \$	3,078,000

TOTAL DRAINAGE ITEMS	\$ 10,973,700
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SECTION 4 SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price (\$)		Cost
070012	Progress Schedule (Critical Path Method)	LS	1	x	10,000.00	= \$	10,000
518002	Sound Wall (Masonry Block)	SQFT	400,000	x	15.00	= \$	6,000,000
510524	Minor Concrete (Sound Wall)	CY	4,000	x	675.00	= \$	2,700,000
800300	Chain Link Fence (Type CL-6)	LF	80,000	x	8.00	= \$	640,000
802501	4' Chain Link Gate (Type CL-6)	EA	80	x	800.00	= \$	64,000
832001	Metal Beam Guard Railing	LF	1,900	x	22.00	= \$	41,800
839310	Double Thrie Beam Barrier	LF	400	x	50.00	= \$	20,000
49XXXX	CIDH Concrete Piling (<i>Insert Diameter</i>)	LF	19,500	x	50.00	= \$	975,000
839XXX	Crash Cushion (<i>Insert Type</i>)	EA	5	x	3,000.00	= \$	15,000
8397XX	Concrete Barrier (Type 736S)	LF	16,000	x	90.00	= \$	1,440,000
839736	Concrete Barrier (Type 742A)	LF	11,000	x	100.00	= \$	1,100,000
839706	Concrete Barrier (Type 60G)	LF	22,000	x	55.00	= \$	1,210,000
520103	Bar Reinf. Steel (Ret. Wall)	LB	5,700,000	x	0.80	= \$	4,560,000
510060	Structural Concrete (Retaining Wall)	CY	46,000	x	325.00	= \$	14,950,000
511035	Architectural Treatment	SQFT	425,000	x	6.00	= \$	2,550,000
511048	Apply Anti-Graffiti Coating	SQFT	1,225,000	x	1.00	= \$	1,225,000
8395XX	End Anchor Assembly (<i>Insert Type</i>)	EA	30	x	850.00	= \$	25,500

TOTAL SPECIALTY ITEMS	\$ 37,526,300
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PRELIMINARY
PROJECT COST ESTIMATE

Section 5 ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Price	=	Amount
	Biological Mitigation	LS	1	x	12,230,000.00	= \$	12,230,000
071325	Temporary Fence (Type ESA)	LS	1	x	10,000.00	= \$	10,000
<u>Subtotal Environmental</u>							<u>\$ 12,240,000</u>

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Price	=	Amount
200001	Highway Planting	LS	1	x	4,300,000.00	= \$	4,300,000
208000	Irrigation System	LS	1	x	2,500,000.00	= \$	2,500,000
204099	Plant Establishment Work (1-year)	LS	1	x	500,000.00	= \$	500,000
204101	Plant Establishment Work (4-year)	LS	1	x	2,000,000.00	= \$	2,000,000
201700	Imported Topsoil	CY	30,000	x	20.00	= \$	600,000
203026	Move In/ Move Out (Erosion Control)	EA	18	x	700.00	= \$	12,600
209801	Maintenance Vehicle Pullout	EA	18	x	8,000.00	= \$	144,000
203002	Erosion Control (Compost Blanket)	CY	15,000	x	28.00	= \$	420,000
203025	Compost (Incorporate)	SF	85,000	x	0.50	= \$	42,500
203027	Erosion Control (Bonded Fiber Matrix)	SF	3,100,000	x	0.22	= \$	682,000
208304	Rolled Erosion Control Product (Netting)	SF	27,000	x	0.30	= \$	8,100
<u>Subtotal Landscape and Irrigation</u>							<u>\$ 11,209,200</u>

5C - NPDES

Item code		Unit	Quantity		Price	=	Amount
	Prepare SWPPP	LS	1	x	62,300.00	= \$	62,300
074017	Construction Site Management	LS	1	x	776,000.00	= \$	776,000
074016	Temporary Erosion Control Hydraulic Mulch	SQYD	1,600,000	x	0.20	= \$	320,000
074051	Move In/ Move Out (Temporary Erosion Control)	EA	40	x	550.00	= \$	22,000
074037	Temporary Fiber Roll	LF	110,000	x	2.00	= \$	220,000
074028	Temporary Concrete Washout Facility	EA	20	x	2,500.00	= \$	50,000
074032	Temporary Construction Entrance	EA	50	x	1,800.00	= \$	90,000
074033	Temporary Check Dam	LF	73,000	x	2.30	= \$	167,900
074035	Temp. Drainage Inlet Protection	EA	600	x	100.00	= \$	60,000
074038	Street Sweeping	LS	1	x	690,000.00	= \$	690,000
074041	Fiber Rolls	LF	726,000	x	2.00	= \$	1,452,000
203021	Compost (Incorporate)	SQYD	1,100,000	x	4.50	= \$	4,950,000
203025	Erosion Control (Polymer Stabilized Fiber Matrix)	ACRE	300	x	2,500.00	= \$	750,000
203030	Rolled Erosion Control Product (Netting)	SF	660,000	x	0.30	= \$	198,000

Supplemental Work for NPDES

066595	Water Pollution Control Maint. Sharing*	LS	1	x	615,000.00	= \$	615,000
066596	Additional Water Pollution Control	LS	1	x	233,000.00	= \$	233,000
066597	Storm Water Sampling and Analysis*	LS	1	x	10,000.00	= \$	10,000

Subtotal NPDES (Without Supplemental Work) \$ 9,808,200

* Applies only to project with SWPPP's

TOTAL ENVIRONMENTAL \$ 34,115,400
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PRELIMINARY
PROJECT COST ESTIMATE

Section 6 TRAFFIC ITEMS

6A - Traffic Electrical

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
860460	Lighting & Sign Illumination	LS	1	x	2,100,000.00	=	\$ 2,100,000
861504	Modify Lighting & Sign Illumination	LS	1	x	300,000.00	=	\$ 300,000
860201	Signals & Lighting	LS	1	x	400,000.00	=	\$ 400,000
86XXXX	Remove Signals & Lighting	LS	1	x	55,000.00	=	\$ 55,000
861501	Modify Signals & Lighting	LS	1	x	400,000.00	=	\$ 400,000
86XXXX	Modify Highway Advisory Radio System	LS		x		=	\$ -
860530	Changeable Message Sign System	EA		x		=	\$ -
86XXXX	Modify Changeable Message Sign System	EA		x		=	\$ -
86XXXX	Remove Changeable Message Sign System	EA		x		=	\$ -
860812	Microwave Vehicle Detection System	EA	9	x	14,000.00	=	\$ 126,000
86XXXX	Modify Microwave Vehicle Detection System	EA	5	x	8,000.00	=	\$ 40,000
860990	Closed Circuit Television System	EA	18	x	35,000.00	=	\$ 630,000
86XXXX	Modify Closed Circuit Television System	EA	6	x	22,000.00	=	\$ 132,000
86XXXX	Remote Processing Unit	EA	4	x	100,000.00	=	\$ 400,000
8611XX	Ramp Metering System	EA	3	x	75,000.00	=	\$ 225,000
560208	Furnish Sign Structure (Tubular)	LB	363,000	x	3.25	=	\$ 1,179,750
560209	Install Sign Structure (Tubular)	LB	363,000	x	0.40	=	\$ 145,200
561016	60" CIDHC Pile (Sign Foundation)	LF	1,190	x	700.00	=	\$ 833,000
860925	Traffic Monitoring Stations (Count)	EA	4	x	50,000.00	=	\$ 200,000
860889	Modify Traffic Monitoring Station	EA	1	x	18,000.00	=	\$ 18,000
86XXXX	Modify Irrigation Controller Enclosure Cabinet	EA	2	x	1,000.00	=	\$ 2,000
150757	Remove Sign Structure	EA	33	x	7,000.00	=	\$ 231,000
560203	Furnish Sign Structure (Bridge Mounted)	LB	33,000	x	4.00	=	\$ 132,000
560204	Install Sign Structural (Bridge Mounted)	LB	32,000	x	2.30	=	\$ 73,600
860090	Maintain Existing Traffic Management System Elements During Construction	LS	1	x	1,000.00	=	\$ 1,000
<u>Subtotal Traffic Electrical</u>							<u>\$ 7,623,550</u>

6B - Traffic Signing and Striping

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
566011	Roadside Sign (One Post)	EA	300	x	300.00	=	\$ 90,000
566012	Roadside Sign (Two Post)	EA	75	x	600.00	=	\$ 45,000
560XXX	Furnish Sign Panels	LS	1	x	100,000.00	=	\$ 100,000
820107	Delineator (Class 1)	EA	700	x	35.00	=	\$ 24,500
840501	Permanent Pavement Delineation	LF	630,000	x	0.25	=	\$ 157,500
<u>Subtotal Traffic Signing and Striping</u>							<u>\$ 417,000</u>

6C - Traffic Management Plan

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
860530	Changeable Message Signs	EA	1	x	500,000.00	=	\$ 500,000
128650	Portable Changeable Message Signs	EA	25	x	6,000.00	=	\$ 150,000
120090	Construction Area Signs	LS	1	x	30,000.00	=	\$ 30,000
860520	Modify Highway Advisory Radio System	LS	1	x	150,000.00	=	\$ 150,000
XXXXXX	Traffic Management Team	LS	1	x	250,000.00	=	\$ 250,000
XXXXXX	Web Cameras	LS	1	x	250,000.00	=	\$ 250,000
XXXXXX	Alternative Routes	LS	1	x	1,000,000.00	=	\$ 1,000,000
<u>Subtotal Traffic Management Plan</u>							<u>\$ 2,330,000</u>

6D - Stage Construction and Traffic Handling

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
120199	Traffic Plastic Drum	EA	780	x	40.00	=	\$ 31,200
120120	Type III Barricade	EA	260	x	90.00	=	\$ 23,400
129100	Crash Cushion Module	EA	520	x	160.00	=	\$ 83,200
120100	Traffic Control System	WD	600	x	1,500.00	=	\$ 900,000
129000	Concrete Barrier (Type K)	LF	90,000	x	8.00	=	\$ 720,000
120143	Temporary Pavement Delineation	LF	260,000	x	0.20	=	\$ 52,000
<u>Subtotal Stage Construction and Traffic Handling</u>							<u>\$ 1,809,800</u>

TOTAL TRAFFIC ITEMS	\$12,180,400
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II. STRUCTURES ITEMS

	<u>Bridge 1</u>	<u>Bridge 2</u>	<u>Bridge 3</u>
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Kern Rivier Bridge (Widen)	WB SR58 Off-Ramp (Mohawk St)	Truxtun Avenue UC (Widen)
Bridge Number	50C-03575	Bridge 50-XXXX	50C-0358
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	129.00 LF	44.83 LF	149.76 LF
Total Bridge Length (Feet)	676.83 LF	941.00 LF	133.28 LF
Total Area (Square Feet)	96,076 SQFT	42,227 SQFT	19,961 SQFT
Structure Depth (Feet)	5.25 LF	5.75 LF	5.75 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$211	\$268	\$274

COST OF EACH STRUCTURE	\$20,270,000.00	\$11,300,000.00	\$5,470,000.00
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	<u>Bridge 4</u>	<u>Bridge 5</u>	<u>Bridge 6</u>
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Commerce Drive UC	California Avenue UC	Marella Way OC
Bridge Number	50-XXXX	50-XXXXR/L	50-XXXX
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder (Cast-High&Lower)	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	154.96 LF	170.33 LF	56.00 LF
Total Bridge Length (Feet)	90.00 LF	117.92 LF	255.00 LF
Total Area (Square Feet)	13,948 SQFT	20,085 SQFT	14,280 SQFT
Structure Depth (Feet)	4.00 LF	7.75 LF	5.25 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$393	\$234	\$195

COST OF EACH STRUCTURE	\$5,480,000.00	\$4,700,000.00	\$2,780,000.00
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TOTAL COST OF BRIDGES SHEET 9-1	\$50,000,000.00
TOTAL COST OF BRIDGES SHEET 9-2	\$32,200,000.00
TOTAL COST OF BRIDGES SHEET 9-3	\$17,250,000.00
TOTAL COST OF BRIDGES SHEET 9-4	\$28,320,000.00

TOTAL COST OF STRUCTURES¹	\$127,770,000.00
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Estimate Prepared By: Mohsen Mohseni
Name

7/20/2012
Date

¹Structure's Estimate includes Overhead and Mobilization.

PRELIMINARY
PROJECT COST ESTIMATE

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	La Mirada Drive OC	South Real Road UC	EB SR-58 to SB SR-99 (S. Real Rd) UC
Bridge Number	50-XXXX	50-XXXXR/L	50-XXXX
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	56.00 LF	134.00 LF	68.25-74.25 LF
Total Bridge Length (Feet)	210.00 LF	93.92 LF	137.00 LF
Total Area (Square Feet)	11,760 SQFT	12,585 SQFT	9,350 SQFT
Structure Depth (Feet)	4.50 LF	6.00 LF	6.25 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$216	\$210	\$190

COST OF EACH STRUCTURE	\$2,540,000.00	\$2,640,000.00	\$1,780,000.00
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	Bridge 4	Bridge 5	Bridge 6
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	WB SR-58 Off-Ramp Grade Separation	NB SR-99 to WB SR-58 Connector	Ming Avenue Off-Ramp Separation
Bridge Number	50-XXXX	50-XXXX	50-XXXX
Structure Type	Cut-and-Cover CIP R/C Tunnel	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	33.83 LF	41.89 LF	38.96 LF
Total Bridge Length (Feet)	173.00 LF	1944.67 LF	630.00 LF
Total Area (Square Feet)	5,853 SQFT	81,462 SQFT	24,545 SQFT
Structure Depth (Feet)	2.50 LF	8.00 LF	7.75 LF
Footing Type (pile or spread)	Spread and Pile	Pile	Pile
Cost Per Square Foot	\$619	\$217	\$161

COST OF EACH STRUCTURE	\$3,620,000.00	\$17,670,000.00	\$3,950,000.00
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TOTAL COST OF BRIDGES THIS SHEET	\$32,200,000.00
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PRELIMINARY
PROJECT COST ESTIMATE

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	SR99 to EB58 Connector Separation	Hughes Lane Overcrossing EB SR-58 Wall No. XX	WB SR-58 Over SR-99 (Widen)
Bridge Number	50-XXXX	50-XXX	50-0426F
Structure Type	CIP/PS Concrete Box Girder	CIP Tieback Wall	CIP/PS Concrete Box Girder (Cast High and Low Construction)
Width (Feet) [out to out]	58.96 & Var LF	9.50 LF Height	20 & Var LF
Total Bridge Length (Feet)	505.00 LF	90.00 LF	391.67 LF
Total Area (Square Feet)	28,736 SQFT	855 SQFT	11,701 SQFT
Structure Depth (Feet)	8.08 LF	N/A LF	5.00 LF
Footing Type (pile or spread)	Pile	Tieback	Pile
Cost Per Square Foot	\$198	\$281	\$202

COST OF EACH STRUCTURE	\$5,700,000.00	\$240,000.00	\$2,360,000.00
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	Bridge 4	Bridge 5	Bridge 6
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Belle Terrace Ave OC (Replace)	South "P" Street UC (Widen)	Madison Street UC (Widen)
Bridge Number	50-XXXX	50-0405 R/L	50-407 R/L
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder (Cast-High&Lower)	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	82 & Var LF	Var LF	33.92 LF
Total Bridge Length (Feet)	292.00 LF	125.50 LF	125.50 LF
Total Area (Square Feet)	24844 SQFT	5,763 SQFT	4,257 SQFT
Structure Depth (Feet)	6.00 LF	5.00 LF	5.00 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$239	\$333	\$256

COST OF EACH STRUCTURE	\$5,940,000.00	\$1,920,000.00	\$1,090,000.00
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TOTAL COST OF BRIDGES THIS SHEET	\$17,250,000.00
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PRELIMINARY
PROJECT COST ESTIMATE

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	06/22/12	07/20/12	07/20/12
Bridge Name	Bakersfield Corral OH (Widen)	WB SR-58 Off-Ramp (Truxtun Ave)	Stockdale Highway UC
Bridge Number	50-0383RL	UC 50-XXXX	50-XXXXR/L
Structure Type	CIP R/C Concrete Girder	CIP/PS Concrete Box Girder	
Width (Feet) [out to out]	Var LF	26.96 & Var LF	166.17 & Var LF
Total Bridge Length (Feet)	165.31 LF	130.21 LF	630.00 LF
Total Area (Square Feet)	5607 SQFT	3,677 SQFT	33,154 SQFT
Structure Depth (Feet)	3.50 LF	5.75 LF	7.00 LF
Footings Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$350	\$479	\$209

COST OF EACH STRUCTURE	\$1,960,000.00	\$1,760,000.00	\$22,780,000.00
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	Bridge 4
DATE OF ESTIMATE	06/22/12
Bridge Name	NB99-EB58 (Wible Road) UC
Bridge Number	50-XXXX
Structure Type	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	41.96 LF
Total Bridge Length (Feet)	280.00 LF
Total Area (Square Feet)	11749 SQFT
Structure Depth (Feet)	5.00 LF
Footings Type (pile or spread)	Spread
Cost Per Square Foot	\$155

COST OF EACH STRUCTURE	\$1,820,000.00
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TOTAL COST OF BRIDGES THIS SHEET	\$28,320,000.00
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IV. SUPPORT COST ESTIMATE SUMMARY

SB-45 CATEGORY SUPPORT COST	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	P3 Total	Support Ratio
PA/ED (PD,PE,PM)				39,000,000						39,000,000	7.4%
ESCALATED COST:	0	0	0	39,000,000	0	0	0	0	0	39,000,000	
PS&E (PS)					41,000,000					41,000,000	7.8%
ESCALATED COST:	0	0	0	0	41,000,000	0	0	0	0	41,000,000	
R/W (RW)					15,000,000					15,000,000	2.8%
ESCALATED COST:	0	0	0	0	15,000,000	0	0	0	0	15,000,000	
CONSTRUCTION (CM)								45,000,000		45,000,000	8.5%
ESCALATED COST:	0	0	0	0	0	0	0	45,000,000	0	45,000,000	
Total Support Cost:	0	0	0	39,000,000	56,000,000	0	0	45,000,000	0	140,000,000	

Escalation rates used in this estimate for Support Cost are 3% per year.

Total Capital Cost:	\$527,583,000
Overall Percent Support Cost:	26.5%

CALTRANS
PRELIMINARY
PROJECT COST ESTIMATE

11- PAGE ESTIMATE

Type of Estimate : PA/ED
 Program Code : 20.10.400.200
 Project Limits : 06-Ker-58, PM T31.7 - R55.6
 06-Ker-99, PM 21.2 - 26.2
 Description: On Route 58 in Bakersfield between Interstate 5 and Cottonwood Road
 Scope : To join Westside Parkway to 58E and route adopt Westside Parkway to become SR 58 by constructing a new 6 lane facility with sufficient R/W for ultimate build of 8 lanes
 Alternative : Build Alternative (Alternative C)

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 262,476,000.00	\$ 276,003,000.00
STRUCTURE ITEMS	\$ 168,100,000.00	\$ 176,242,000.00
SUBTOTAL CONSTRUCTION COST	\$ 430,576,000.00	\$ 452,245,000.00
RIGHT OF WAY	\$ 189,648,000.00	\$ 213,288,000.00
TOTAL CAPITAL COST	\$ 620,224,000.00	\$ 665,533,000.00
PA/ED SUPPORT	\$ 39,000,000.00	\$ 39,000,000.00
PS&E SUPPORT	\$ 47,000,000.00	\$ 47,000,000.00
RIGHT OF WAY SUPPORT	\$ 16,000,000.00	\$ 16,000,000.00
CONSTRUCTION SUPPORT	\$ 52,000,000.00	\$ 52,000,000.00
TOTAL SUPPORT COST	\$ 154,000,000.00	\$ 154,000,000.00

TOTAL PROJECT COST	\$ 775,000,000.00	\$ 820,000,000.00
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	month	year
Date (Month/Year) of Estimate	8	/ 2013
Estimated Date (Month/Year) of Construction	8	/ 2016
Number of Months of Escalation	36	
Number of Years of Escalation	3.00	
If Project has been programmed enter Programmed Amount	\$ -	
Number of Working Days	600	
Number of Plant Establishment Days	1095	

Estimated Project Schedule

PID Approval	Month-Year	1 / 2012
PA/ED Approval	Month-Year	2 / 2014
PS&E - R/W Certification	Month-Year	3 / 2016
RTL	Month-Year	5 / 2016
Begin Construction	Month-Year	8 / 2016

Reviewed by City Program Manager Theodore D. Ted Wright 9/13/13 3575
 Name City Program Manager Date Phone (661)326-3475

Approved by Project Manager Joel Haven 9/13/2013 (619)515-5115
 Name Project Manager Date Phone

Escalation rates used in this estimate for Support Cost are 6% per year. Escalation rates used in this estimate for Highway Construction Capital Costs are 3.0% compounded annually to Construction year.

PRELIMINARY
PROJECT COST ESTIMATE

I. ROADWAY ITEMS

Section		Cost
1	Earthwork _____	\$ 14,107,500
2	Structural Section _____	\$ 20,896,100
3	Drainage _____	\$ 13,761,000
4	Specialty Items _____	\$ 37,528,000
5	Environmental _____	\$ 37,153,900
	5A Environmental Mitigation \$ 19,680,000	
	5B Landscape and Irrigation \$ 6,229,900	
	5C NPDES \$ 10,344,000	
6	Traffic Items _____	\$ 12,856,800
	6A Electrical \$ 8,344,700	
	6B Signing and Striping \$ 429,000	
	6C Traffic Management Plan \$ 1,830,000	
	6D Traffic Control \$ 2,253,100	
7	Detours _____	\$ 3,688,600
8	Minor Items _____	\$ 13,999,200
9	Roadway Mobilization _____	\$ 15,399,200
10	Supplemental Work _____	\$ 17,550,500
11	State Furnished _____	\$ 4,947,800
12	Contingencies _____	\$ 38,377,800
13	Overhead _____	\$ 32,209,200
TOTAL ROADWAY ITEMS		\$ 262,475,600

Estimate Prepared By :	Daniel Wagner	8/28/2013	(619)515-5102
	Name	Date	Phone
Estimate Reviewed By :	Glen Parker	8/28/2013	(619)515-5108
	Name	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

PRELIMINARY
PROJECT COST ESTIMATE

SECTION 1 EARTHWORK

Item code	<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
190101 Roadway Excavation	CY	1,150,000	x	4.00	= \$	4,600,000
198001 Imported Borrow	CY	750,000	x	8.00	= \$	6,000,000
192037 Structure Excavation (Retaining Wall)	CY	4,500	x	35.00	= \$	157,500
193013 Structure Backfill (Retaining Wall)	CY	100,000	x	29.00	= \$	2,900,000
160101 Clearing & Grubbing	LS	1	x	400,000.00	= \$	400,000
170101 Develop Water Supply	LS	1	x	50,000.00	= \$	50,000

TOTAL EARTHWORK SECTION ITEMS	\$ 14,107,500
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Section 2 STRUCTURAL SECTION

Item code	<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
401000 Concrete Pavement	CY	40,000	x	130.00	= \$	5,200,000
280000 Lean Concrete Base	CY	17,000	x	75.00	= \$	1,275,000
390132 Hot Mix Asphalt (Type A)	TON	113,000	x	72.00	= \$	8,136,000
260201 Class 2 Aggregate Base	CY	71,000	x	30.00	= \$	2,130,000
250201 Class 2 Aggregate Subbase	CY	9,000	x	25.00	= \$	225,000
374002 Asphaltic Emulsion (Fog Seal Coat) Roadway Shld	TON	70	x	736.00	= \$	51,520
731530 Minor Concrete (Textured Paving)	SQFT	27,000	x	8.00	= \$	216,000
731502 Minor Concrete (Misc. Const) Curb, Sidewalk	CY	10,000	x	350.00	= \$	3,500,000
394071 Place Hot Mix Asphalt Dike	LF	75,000	x	0.80	= \$	60,000
394090 Place Hot Mix Asphalt (Misc. Area)	SQFT	82,000	x	1.25	= \$	102,500

TOTAL STRUCTURAL SECTION ITEMS	\$ 20,896,100
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PRELIMINARY
PROJECT COST ESTIMATE

SECTION 3 DRAINAGE

<i>Item code</i>		<i>Unit</i>	<i>Quantity</i>		<i>Price</i>		<i>Amount</i>
150206	Abandon Culvert	LF	11,500	x	12.00	= \$	138,000
510502	Minor Concrete (Minor Structure)	CY	2,000	x	1,300.00	= \$	2,600,000
650018	24" RCP Pipe	LF	36,000	x	80.00	= \$	2,880,000
650022	30" RCP Pipe	LF	10,000	x	95.00	= \$	950,000
650026	36" RCP Pipe	LF	5,000	x	130.00	= \$	650,000
XXXXXX	Inlet	EA	150	x	5,000.00	= \$	750,000
750001	Miscellaneous Iron and Steel	LB	340,000	x	1.10	= \$	374,000
XXXXXX	Modify Pump Station	EA	4	x	100,000.00	= \$	400,000
XXXXXX	Pump Station	LS	4	x	500,000.00	= \$	2,000,000
XXXXXX	Additional Drainage	LS	1	x	3,019,000.00	= \$	3,019,000

TOTAL DRAINAGE ITEMS	\$ 13,761,000
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SECTION 4 SPECIALTY ITEMS

<i>Item code</i>		<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
070012	Progress Schedule (Critical Path Method)	LS	1	x	10,000.00	= \$	10,000
518002	Sound Wall (Masonry Block)	SQFT	320,000	x	15.00	= \$	4,800,000
510524	Minor Concrete (Sound Wall)	CY	2,100	x	675.00	= \$	1,417,500
800300	Chain Link Fence (Type CL-6)	LF	84,000	x	8.00	= \$	672,000
802501	4' Chain Link Gate (Type CL-6)	EA	90	x	800.00	= \$	72,000
832001	Metal Beam Guard Railing	LF	2,000	x	22.00	= \$	44,000
839310	Double Thrie Beam Barrier	LF	400	x	50.00	= \$	20,000
49XXXX	CIDH Concrete Piling (<i>Insert Diameter</i>)	LF	19,700	x	50.00	= \$	985,000
839XXX	Crash Cushion (<i>Insert Type</i>)	EA	10	x	3,000.00	= \$	30,000
8397XX	Concrete Barrier (Type 736S)	LF	17,800	x	90.00	= \$	1,602,000
839736	Concrete Barrier (Type 742A)	LF	19,800	x	100.00	= \$	1,980,000
839706	Concrete Barrier (Type 60G)	LF	36,000	x	55.00	= \$	1,980,000
520103	Bar Reinf. Steel (Ret. Wall)	LB	4,800,000	x	0.80	= \$	3,840,000
510060	Structural Concrete (Retaining Wall)	CY	50,000	x	325.00	= \$	16,250,000
511035	Architectural Treatment	SQFT	450,000	x	6.00	= \$	2,700,000
511048	Apply Anti-Graffiti Coating	SQFT	1,100,000	x	1.00	= \$	1,100,000
8395XX	End Anchor Assembly (<i>Insert Type</i>)	EA	30	x	850.00	= \$	25,500

TOTAL SPECIALTY ITEMS	\$ 37,528,000
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PRELIMINARY
PROJECT COST ESTIMATE

Section 5 ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code		Unit	Quantity		Price		Amount
	Biological Mitigation	LS	1	x	19,670,000.00	= \$	19,670,000
071325	Temporary Fence (Type ESA)	LS	1	x	10,000.00	= \$	10,000
<u>Subtotal Environmental</u>							<u>\$ 19,680,000</u>

5B - LANDSCAPE AND IRRIGATION

Item code		Unit	Quantity		Price		Amount
200001	Highway Planting	LS	1	x	2,500,000.00	= \$	2,500,000
208000	Irrigation System	LS	1	x	1,500,000.00	= \$	1,500,000
204099	Plant Establishment Work (1-year)	LS	1	x	300,000.00	= \$	300,000
204101	Plant Establishment Work (4-year)	LS	1	x	1,000,000.00	= \$	1,000,000
201700	Imported Topsoil	CY	15,000	x	20.00	= \$	300,000
203026	Move In/ Move Out (Erosion Control)	EA	11	x	700.00	= \$	7,700
209801	Maintenance Vehicle Pullout	EA	11	x	8,000.00	= \$	88,000
203002	Erosion Control (Compost Blanket)	CY	10,000	x	20.00	= \$	200,000
203025	Compost (Incorporate)	SF	55,000	x	0.50	= \$	27,500
203027	Erosion Control (Bonded Fiber Matrix)	SF	1,375,000	x	0.22	= \$	302,500
203034	Rolled Erosion Control Product (Netting)	SF	14,000	x	0.30	= \$	4,200
<u>Subtotal Landscape and Irrigation</u>							<u>\$ 6,229,900</u>

5C - NPDES

Item code		Unit	Quantity		Price		Amount
074019	Prepare SWPPP	LS	1	x	65,500.00	= \$	65,500
074016	Construction Site Management	LS	1	x	816,000.00	= \$	816,000
074051	Temporary Erosion Control Hydraulic Mulch	SQYD	1,700,000	x	0.20	= \$	340,000
074037	Move In/ Move Out (Temporary Erosion Control)	EA	40	x	550.00	= \$	22,000
074028	Temporary Fiber Roll	LF	120,000	x	2.00	= \$	240,000
074032	Temporary Concrete Washout Facility	EA	20	x	2,500.00	= \$	50,000
074033	Temporary Construction Entrance	EA	50	x	1,800.00	= \$	90,000
074035	Temporary Check Dam	LF	80,000	x	2.30	= \$	184,000
074038	Temp. Drainage Inlet Protection	EA	600	x	100.00	= \$	60,000
074041	Street Sweeping	LS	1	x	726,500.00	= \$	726,500
203021	Fiber Rolls	LF	770,000	x	2.00	= \$	1,540,000
203025	Compost (Incorporate)	SQYD	1,200,000	x	4.50	= \$	5,400,000
203030	Erosion Control (Polymer Stabilized Fiber Matrix)	ACRE	240	x	2,500.00	= \$	600,000
203034	Rolled Erosion Control Product (Netting)	SF	700,000	x	0.30	= \$	210,000

Supplemental Work for NPDES

066595	Water Pollution Control Maint. Sharing*	LS	1	x	645,000.00	= \$	645,000
066596	Additional Water Pollution Control	LS	1	x	245,000.00	= \$	245,000
066597	Storm Water Sampling and Analysis*	LS	1	x	10,000.00	= \$	10,000
<u>Subtotal NPDES (Without Supplemental Work)</u>							<u>\$ 10,344,000</u>

* Applies only to project with SWPPP's

TOTAL ENVIRONMENTAL \$ 37,153,900
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PRELIMINARY
PROJECT COST ESTIMATE

Section 6 TRAFFIC ITEMS

6A - Traffic Electrical

Item code	Unit	Quantity	Unit Price (\$)	Cost
860460 Lighting & Sign Illumination	LS	1	x 2,400,000.00	= \$ 2,400,000
861504 Modify Lighting & Sign Illumination	LS	1	x 300,000.00	= \$ 300,000
860201 Signals & Lighting	LS	1	x 320,000.00	= \$ 320,000
861501 Modify Signals & Lighting	LS	1	x 900,000.00	= \$ 900,000
860812 Microwave Vehicle Detection System	EA	9	x 14,000.00	= \$ 126,000
86XXXX Modify Microwave Vehicle Detection System	EA	5	x 8,000.00	= \$ 40,000
860990 Closed Circuit Television System	EA	18	x 35,000.00	= \$ 630,000
86XXXX Modify Closed Circuit Television System	EA	6	x 22,000.00	= \$ 132,000
86XXXX Remote Processing Unit	EA	4	x 100,000.00	= \$ 400,000
8611XX Ramp Metering System	EA	7	x 75,000.00	= \$ 525,000
560208 Furnish Sign Structure (Tubular)	LB	350,000	x 3.25	= \$ 1,137,500
560209 Install Sign Structure (Tubular)	LB	350,000	x 0.40	= \$ 140,000
561016 60" CIDHC Pile (Sign Foundation)	LF	1,100	x 700.00	= \$ 770,000
860925 Traffic Monitoring Stations (Count)	EA	4	x 50,000.00	= \$ 200,000
86XXXX Modify Irrigation Controller Enclosure Cabinet	EA	2	x 2,000.00	= \$ 4,000
150757 Remove Sign Structure	EA	24	x 7,000.00	= \$ 168,000
560203 Furnish Sign Structure (Bridge Mounted)	LB	24,000	x 4.00	= \$ 96,000
560204 Install Sign Structural (Bridge Mounted)	LB	24,000	x 2.30	= \$ 55,200
860090 Maintain Existing Traffic Management System Elements During Construction	LS	1	x 1,000.00	= \$ 1,000
<i>Subtotal Traffic Electrical</i>				<u>\$ 8,344,700</u>

6B - Traffic Signing and Striping

Item code	Unit	Quantity	Unit Price (\$)	Cost
566011 Roadside Sign (One Post)	EA	320	x 300.00	= \$ 96,000
566012 Roadside Sign (Two Post)	EA	60	x 600.00	= \$ 36,000
560XXX Furnish Sign Panels	LS	1	x 100,000.00	= \$ 100,000
820107 Delineator (Class 1)	EA	700	x 35.00	= \$ 24,500
840501 Permanent Pavement Delineation	LS	690,000	x 0.25	= \$ 172,500
<i>Subtotal Traffic Signing and Striping</i>				<u>\$ 429,000</u>

6C - Traffic Management Plan

Item code	Unit	Quantity	Unit Price (\$)	Cost
860530 Changeable Message Signs	EA	1	x 500,000.00	= \$ 500,000
128650 Portable Changeable Message Signs	EA	25	x 6,000.00	= \$ 150,000
120090 Construction Area Signs	LS	1	x 30,000.00	= \$ 30,000
860520 Modify Highway Advisory Radio System	LS	1	x 150,000.00	= \$ 150,000
XXXXXX Traffic Management Team	LS	1	x 250,000.00	= \$ 250,000
XXXXXX Web Cameras	LS	1	x 250,000.00	= \$ 250,000
XXXXXX Alternative Routes	LS	1	x 1,000,000.00	= \$ 1,000,000
<i>Subtotal Traffic Management Plan</i>				<u>\$ 1,830,000</u>

6D - Stage Construction and Traffic Handling

Item code	Unit	Quantity	Unit Price (\$)	Cost
120199 Traffic Plastic Drum	EA	940	x 40.00	= \$ 37,600
120120 Type III Barricade	EA	310	x 90.00	= \$ 27,900
129100 Crash Cushion Module	EA	620	x 160.00	= \$ 99,200
120100 Traffic Control System	WD	600	x 1,500.00	= \$ 900,000
129000 Concrete Barrier (Type K)	LF	112,600	x 10.00	= \$ 1,126,000
120143 Temporary Pavement Delineation	LF	312,000	x 0.20	= \$ 62,400
<i>Subtotal Stage Construction and Traffic Handling</i>				<u>\$ 2,253,100</u>

TOTAL TRAFFIC ITEMS	\$ 12,856,800
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II. STRUCTURES ITEMS

	<u>Bridge 1</u>	<u>Bridge 2</u>	<u>Bridge 3</u>
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Kern River Bridge	Westside Parkway Bridge (Widen)	Truxtun Avenue UC
Bridge Number	50-XXXX	50C-03575	50-XXXX
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	44.75 LF	51 & Var LF	109.17 LF
Total Bridge Length (Feet)	721.75 LF	721.67 LF	177.58 LF
Total Area (Square Feet)	32298 SQFT	48260 SQFT	19386 SQFT
Structure Depth (Feet)	5.25 LF	5.25 LF	8.00 LF
Footings Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$157	\$242	\$302

COST OF EACH STRUCTURE	\$5,070,000.00	\$11,700,000.00	\$5,860,000.00
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	<u>Bridge 4</u>	<u>Bridge 5</u>	<u>Bridge 6</u>
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Truxtun Ave UC (Widen)	WB SR58 Off-Ramp (Mohawk St) Bridge	Truxtun Avenue On-Ramp UC
Bridge Number	50-C0358	50-XXXX	50-XXXX
Structure Type		CIP/PS Concrete Box Girder	PC/PS "I" Girder
Width (Feet) [out to out]	16.23 & Var LF	38.95 LF	26.96 LF
Total Bridge Length (Feet)	132.67 LF	1595.39 LF	156.00 LF
Total Area (Square Feet)	2432 SQFT	62139 SQFT	4206 SQFT
Structure Depth (Feet)	5.75 LF	7.50 LF	3.83 LF
Footings Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$366	\$213	\$195

COST OF EACH STRUCTURE	\$890,000.00	\$13,230,000.00	\$820,000.00
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TOTAL COST OF BRIDGES SHEET 9-1	\$37,570,000.00
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TOTAL COST OF BRIDGES SHEET 9-2	\$34,250,000.00
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TOTAL COST OF BRIDGES SHEET 9-3	\$54,480,000.00
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TOTAL COST OF BRIDGES SHEET 9-4	\$28,250,000.00
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TOTAL COST OF BRIDGES SHEET 9-5	\$13,550,000.00
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TOTAL COST OF STRUCTURES¹	\$168,100,000.00
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Estimate Prepared By: Mohsen Mohseni
Name

6/22/2012
Date

¹Structure's Estimate includes Overhead and Mobilization.

PRELIMINARY
PROJECT COST ESTIMATE

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Bakersfield Yard Overhead	California Avenue UC (Widen)	Wible Road Undercrossing (Connector) (Widen)
Bridge Number	50-0XXX	50-0260	50-0427
Structure Type	PC/PS "I" Girder	PC/PS "I" Grider	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	38.96 LF	Var LF	16.00 LF
Total Bridge Length (Feet)	426.25 LF	157.75 LF	287.25 LF
Total Area (Square Feet)	16606 SQFT	3429 SQFT	4596 SQFT
Structure Depth (Feet)	4.92 LF	3.67 LF	6.50 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$196	\$554	\$218

COST OF EACH STRUCTURE	\$3,260,000.00	\$1,900,000.00	\$1,000,000.00
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	Bridge 4	Bridge 5	Bridge 6
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	California Ave UC	NB SR-99 to WB SR-58 Connector	NB SR-99 Bypass
Bridge Number	50-XXXX	50-XXXX	50-XXXX
Structure Type		CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	175.50 LF	41.96 LF	29.96 LF
Total Bridge Length (Feet)	500.00 LF	1224.83 LF	314.67 LF
Total Area (Square Feet)	87750 SQFT	51392 SQFT	9427 SQFT
Structure Depth (Feet)	10.00 LF	7.83 LF	5.00 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$177	\$215	\$160

COST OF EACH STRUCTURE	\$15,540,000.00	\$11,040,000.00	\$1,510,000.00
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TOTAL COST OF BRIDGES THIS	\$34,250,000.00
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PRELIMINARY
PROJECT COST ESTIMATE

	<u>Bridge 1</u>	<u>Bridge 2</u>	<u>Bridge 3</u>
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Palm Street UC	Palm Street Overcrossing (Replace)	SR-58/SR-99 Connector Separation
Bridge Number	50-XXXXR/L	50-XXXX	
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	105.92 LF	80.00 LF	122.88 LF
Total Bridge Length (Feet)	135.00 LF	265.00 LF	1253.00 LF
Total Area (Square Feet)	14299 SQFT	21200 SQFT	153962 SQFT
Structure Depth (Feet)	6.00 LF	5.75 LF	11.50 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$148	\$207	\$235

COST OF EACH STRUCTURE	\$2,110,000.00	\$4,380,000.00	\$36,250,000.00
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	<u>Bridge 4</u>	<u>Bridge 5</u>	<u>Bridge 6</u>
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	Brundage Lane UC	Stockdale Highway OC	WB SR-58/SB SR-99 Conn OC
Bridge Number	50-XXXX	50-XXXX	50-XXXX
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	133.50 LF	102.00 LF	68.58 & Var LF
Total Bridge Length (Feet)	227.72 LF	80.25 LF	100.00 LF
Total Area (Square Feet)	30400 SQFT	8186 SQFT	7167 SQFT
Structure Depth (Feet)	10.25 LF	3.67 LF	5.00 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$235	\$282	\$318

COST OF EACH STRUCTURE	\$7,150,000.00	\$2,310,000.00	\$2,280,000.00
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TOTAL COST OF BRIDGES THIS	\$54,480,000.00
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PRELIMINARY
PROJECT COST ESTIMATE

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	EB SR-58 On-Ramp Connector Separation	Route 58/99 Separation (Widen)	Route 58/99 Separation Tieback Wall No. 685
Bridge Number	50-XXXX	50-0426S	50-XXXX
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	CIP Tieback Wall
Width (Feet) [out to out]	27.96 LF	Var LF	12.58 LF Height
Total Bridge Length (Feet)	241.50 LF	391.08 LF	213.00 LF
Total Area (Square Feet)	6751 SQFT	7937 SQFT	2680 SQFT
Structure Depth (Feet)	10.83 LF	5.00 LF	N/A LF
Footing Type (pile or spread)	Pile	Pile	Tieback
Cost Per Square Foot	\$262	\$278	\$235

COST OF EACH STRUCTURE	\$1,770,000.00	\$2,210,000.00	\$630,000.00
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	Bridge 4	Bridge 5	Bridge 6
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	EB SR-58/Real Road On-Ramp OC	SR-58 Separation	EB SR-58 H Street Off-Ramp OC
Bridge Number	50-XXXX	50-XXXX	50-XXXX
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder
Width (Feet) [out to out]	41.96 LF	122.83 LF	27.96 LF
Total Bridge Length (Feet)	100.00 LF	722.25 LF	701.50 LF
Total Area (Square Feet)	4196 SQFT	88714 SQFT	19613 SQFT
Structure Depth (Feet)	5.00 LF	7.83 LF	7.00 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$276	\$213	\$180

COST OF EACH STRUCTURE	\$1,160,000.00	\$18,940,000.00	\$3,540,000.00
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TOTAL COST OF BRIDGES THIS	\$28,250,000.00
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PRELIMINARY
PROJECT COST ESTIMATE

	Bridge 1	Bridge 2	Bridge 3
DATE OF ESTIMATE	06/22/12	06/22/12	06/22/12
Bridge Name	South "P" Street UC (Widen)	Madison Street UC (Widen)	Bakersfield Corral OH (Widen)
Bridge Number	50-0405 R/L	50-407 R/L	50-0383RL
Structure Type	CIP/PS Concrete Box Girder	CIP/PS Concrete Box Girder	CIP Reinforced Concrete Box Girder
Width (Feet) [out to out]	Var LF	33.92 LF	Var LF
Total Bridge Length (Feet)	125.50 LF	125.50 LF	165.31 LF
Total Area (Square Feet)	5763 SQFT	4257 SQFT	5607 SQFT
Structure Depth (Feet)	5.00 LF	5.00 LF	3.50 LF
Footing Type (pile or spread)	Pile	Pile	Pile
Cost Per Square Foot	\$333	\$256	\$350

COST OF EACH STRUCTURE	\$1,920,000.00	\$1,090,000.00	\$1,960,000.00
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	Bridge 4	Bridge 5
DATE OF ESTIMATE	06/22/12	06/22/12
Bridge Name	Ming Avenue Off-Ramp	Belle Terrace OC (Replace)
Bridge Number	Separation	50-XXXX
Structure Type	50-XXXX	CIP/PS Box Girder
Width (Feet) [out to out]	CIP/PS Box Girder	CIP/PS Box Girder
Total Bridge Length (Feet)	26.96 LF	82.00 LF
Total Area (Square Feet)	512.00 LF	289.00 LF
Structure Depth (Feet)	13804 SQFT	23698 SQFT
Footing Type (pile or spread)	5.83 LF	4.75 LF
Cost Per Square Foot	Pile	Pile
	\$275	\$202

COST OF EACH STRUCTURE	\$3,790,000.00	\$4,790,000.00
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TOTAL COST OF BRIDGES THIS	\$13,550,000.00
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III. RIGHT OF WAY

A)	A1)	Acquisition, including Excess Lands, Fees	\$	115,005,707
	A2)	Loss of Buisness Goodwill	\$	12,498,000
B)		Acquisition of Offsite Mitigation	\$	
C)	C1)	Utility Relocation (Local Share)	\$	29,006,813
	C2)	Potholing (Design Phase)	\$	
D)		Railroad Acquisition	\$	
E)		Clearance / Demolition	\$	8,161,800
F)		Relocation Assistance	\$	24,300,000
G)		Title and Escrow	\$	1,200,000
		Construction Contract Work	\$	
H)		Condemnation Settlements	\$	4,378,213

R/W ESTIMATE	\$194,551,000.00
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I)		R/W Support Cost (Appraisals, ROWE, Consultants)	\$	11,096,815
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TOTAL R/W ESTIMATE	\$205,648,000.00
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(Excluding Item #8 - Hazardous Waste)

Additional Condemnation Settlements	\$	18,840,000
Additional Demolition Testing	\$	2,400,000
Additional Survey and Mapping	\$	2,400,000

J)	TOTAL R/W ESTIMATE: Escalated	\$229,288,000.00
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K)		Utility Relocation (Construction Cost)	\$	
RIGHT OF WAY SUPPORT			\$	15,896,815

Utility Estimate Prepared By	Fred Garza	(626)440-2161
	Name Utility Coordinator	Phone
R/W Acquisition Estimate Prepared By	Chris LaBonte	(951)683-2353
	Name Right of Way Estimator	Phone

PRELIMINARY
PROJECT COST ESTIMATE

IV. SUPPORT COST ESTIMATE SUMMARY

SB-45 CATEGORY SUPPORT COST	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	P3 Total	Support Ratio
PA/ED (PD,PE,PM)				39,000,000						39,000,000	6.3%
COST:	0	0	0	39,000,000	0	0	0	0	0	39,000,000	
PS&E (PS)					47,000,000					47,000,000	7.6%
COST:	0	0	0	0	47,000,000	0	0	0	0	47,000,000	
R/W (RW)					16,000,000					16,000,000	2.6%
COST:	0	0	0	0	16,000,000	0	0	0	0	16,000,000	
CONSTRUCTION (CM)								52,000,000		52,000,000	8.4%
COST:	0	0	0	0	0	0	0	52,000,000	0	52,000,000	
Total Support Cost:	0	0	0	39,000,000	63,000,000	0	0	52,000,000	0	154,000,000	

Total Capital Cost:	\$620,224,000
Overall Percent Support Cost:	24.8%