

<b>Date:</b>	August 31, 2015
<b>To:</b>	Claudia R. Wade, PE, Senior Civil Engineer, El Dorado County Community Development Agency, Long Range Planning
<b>CC:</b>	Natalie K. Porter, PE, TE, Traffic Engineer, El Dorado County Community Development Agency, Long Range Planning
<b>From:</b>	Brent Lemon, PE, Project Manager, Quincy Engineering
<b>Subject:</b>	2015 El Dorado County Traffic Impact Mitigation- Cost Estimate Methodology

## I. DESIGN CRITERIA

The initial step before developing planning level costs was establishing a design criteria; mainly for the local road improvements. The proposed criteria was determined from reviewing previously adopted standards, current draft design standards, and the General Plan; all from the County of El Dorado. Once the proposed design criteria was reviewed and approved by the County, it was used to determine the various improvement features such as number of lanes, lane widths, shoulder widths, and sidewalks for a given improvement which informed each road segment improvement cost estimate.

The design criteria applied to the interchange estimates and highway auxiliary lane estimates was based on the latest Caltrans Highway Design Manual and standard plans.

## II. PROJECT IDENTIFICATION AND LIMITS

Kittelson & Associates provided basic project identification based on the existing and future deficiency analysis (see Technical Memorandum 2-3). Logical begin and end work limits were then determined for the identified projects. Aerial imagery was utilized to facilitate the layout on a preliminary basis. The majority of items for each estimate were quantified on the basis of the length of each project but some items had to be quantified based on area. The approximate location of existing right of way lines was determined helping facilitate the preliminary estimation of proposed right of way.

Each estimate includes a brief description of the project location and limits.

### III. PROJECT ESTIMATING APPROACH

The following describes the approach and/or methodology in generating the planning level cost estimates for local road segments, interchanges and auxiliary lanes on state highways.

#### Unit Costs

While unit costs can vary widely from project to project based on market trends, fuel costs, project location, project size and complexity, the best judgement was used in order to identify common project improvement items and develop current unit costs for all new estimates. These unit costs are based on prices anticipated in 2015.

For any new projects (local road, interchange or auxiliary lane), the unit costs applied were based on currently published Caltrans Cost Data. These unit costs were then verified utilizing recent local roadway and State Highway bid information provided by the County.

Several of the interchange and auxiliary lane projects had already been estimated and therefore, those estimates were used and adjusted by increasing unit prices and applying an escalation rate to the lump sum (LS) items. The escalation rate applied was based on the latest published Caltrans Construction Price Index. Since the years varied from one original estimate to the other, the escalation rate varied as well.

#### Right of Way

Right of way costs for the local road segments were based on a square foot area for developed or undeveloped areas. Where existing parking was impacted, costs per parking stall taken were included. The road segment estimates included a right of way acquisition support that was 10% of the right of way costs. Right of way costs for some of the interchange projects were based on the original estimates provided and escalated at 6% per year.

#### Earthwork and Drainage

*Earthwork/Grading Factors* were applied to the roadway excavation quantity based on the grading difficulty of the terrain from 1 to 5; 1=5%, 2=30%, 3=90%, 4=150% and 5=220%.

*Drainage* was estimated at 15% of the earthwork and structural section quantity totals which is a close approximated average for actual constructed projects.

#### Supplemental Items (Local Road Estimates Only)

*Traffic Management Plan/Traffic Control* was estimated at 4% of the total roadway construction cost.

*Construction Contingency* was estimated at 25% of the total roadway construction cost.

Capital Support

Each estimate includes items that were measured or otherwise quantified, however there are other items associated with each project that were not separately measured but nonetheless likely to be required. Therefore, the support costs and contingencies provided in each estimate represent project components there were not specifically measured, either due to the preliminary nature of the project, or represent known work items that typically fall within a percentage range of project construction costs. The following support costs and contingency values were added to the estimated construction as defined below:

- *Project Report/Environmental Document (Preliminary Design, Preliminary Engineering, Project Management)* at 10% of the total construction cost; addresses the project development support costs required to complete the Environmental Document milestone.
- *Final Design- Plans, Specifications & Estimate* at 20% of the total construction cost; addresses the project design phase support costs required to complete construction contract documents.
- *Construction Management* at 15% of the total construction cost; addresses the project construction phase support costs required to administer the construction contract.

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**ROAD SEGMENTS Summary**

No.	Roadway Segment	Limits	Exist Section	Proposed Section	Cost	Notes
1	Cameron Park Dr	north of Palmer to Hacienda Rd	2-Lane	4-Lane	\$ 1,599,000	sw on north side only
2	Green Valley Rd - 1	from Sac/ED County line to Sophia Pkwy	2-Lane	4-Lane	\$ 2,101,000	sw on both sides; 20% = \$420,200
3	Green Valley Rd - 2	from Deer Valley Rd to southwest of Lotus Rd	2-Lane	3-Lane	\$ 9,482,000	no sw
4	Green Valley Rd - 3	east of Francisco Dr to east of Silva Valley Rd	2-Lane	4-Lane	\$ 6,029,000	sw on north side only
5	Golden Foothill Pkwy/Carson Crossing Rd Intersection	at Carson Crossing Rd intersection; west of Latrobe Rd	2-Lane	2-lane	\$ 379,000	
6	White Rock Rd	from Post St to south of Silva Valley Rd OC	2-Lane	4-Lane	\$ 5,618,000	sw on both sides
7	Saratoga Way (future)	connect to Iron Point Rd	n/a	4-Lane	\$ 11,549,000	sw on north side only
8	Country Club Dr (future) - 1	east of El Dorado Hills Blvd to west of Silva Valley Pkwy	n/a	2-Lane	\$ 10,752,000	sw on both sides
9	Country Club Dr (future) - 2	west of Silva Valley Pkwy to Tong Road	n/a	2-Lane	\$ 8,240,000	sw on both sides
10	Country Club Dr (future) - 3	from Tong Rd to Bass Lake Rd/Old Bass Lake Rd	n/a	2-Lane	\$ 12,449,000	no sw
11	Country Club Dr (future) - 4	from Bass Lake Rd/Old Bass Lake Rd to Tierre de Dios Dr	n/a	2-Lane	\$ 8,056,000	no sw
12	Diamond Springs Pkwy (future)	from Missouri Flat Rd to Route 49	n/a	2-Lane	\$ 23,303,000	sw on both sides
13	Headington Rd Connector	El Dorado Rd to Missouri Flat Rd	n/a	2-Lane	\$ 4,852,000	sw on both sides

Prepared By:

**PRELIMINARY COST**



Project Limits: north of Palmer Drive to Hacienda Road

TYPE: 4-LANE

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				PROJECT LENGTH	1,205
Item Description	Quantity	Unit	Unit Cost	Total Cost	
<b>Earthwork</b>					
Roadway Excavation	3,668	CY	\$30.00	\$110,048	
Earthwork/Grading Factor			90%	\$99,043	
<b>Existing Facilities</b>					
Sawcut Existing Asphalt Concrete	2,410	LF	\$2.50	\$6,024	
Removal of Striping	3,614	LF	\$1.25	\$4,518	
Removal of Pavement Markings	225	SF	\$3.00	\$675	
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	1,789	Ton	\$110.00	\$196,796	
Class 2 Aggregate Base	2,445	CY	\$60.00	\$146,729	
AC Overlay	217	Ton	\$110.00	\$23,854	
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%	\$86,470	
<b>Specialty Items</b>					
Concrete Sidewalk	6,960	SF	\$10.00	\$69,600	
Curb and Gutter	2,410	LF	\$30.00	\$72,285	
Sidewalk Ramp	2	EA	\$2,500.00	\$5,000	
Medium Retaining Wall (6 to 10')	60	LF	\$400.00	\$24,000	
<b>Traffic Items</b>					
Striping Imps (4 lanes)	1,205	LF	\$6.00	\$7,229	
Pavement Markings	225	SF	\$5.00	\$1,125	
Signs	4	EA	\$300.00	\$1,200	
<b>Subtotal Roadway Construction Items</b>				<b>\$854,595</b>	
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%	\$34,184	
Construction Contingency			25%	\$213,649	
<b>Subtotal Supplemental Items</b>				<b>\$247,833</b>	
<b>Construction Subtotal</b>				<b>\$1,102,428</b>	
<b>Right-of-Way <sup>1</sup></b>					
Developed (landscaped)	0	SF	\$17.50	\$0	
Undeveloped	0	SF	\$10.00	\$0	
Right-of-way Acquisition Support			10%	\$0	
<b>Subtotal R/W Items</b>				<b>\$0</b>	
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%	\$110,243	
PS&E (PS)			20%	\$220,486	
CONSTRUCTION (CM)			15%	\$165,364	
<b>Subtotal Capital Support Items</b>				<b>\$496,093</b>	
<b>Project Total</b>				<b>\$1,598,521</b>	
<b>Rounded</b>				<b>\$1,599,000</b>	

1. The existing right of way width is at 80 feet or more; therefore, no right of way take was estimated.

Prepared By:

# PRELIMINARY COST



Project Limits: Sac/El Dorado County Line to Sophia Parkway

TYPE: 4-LANE

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				PROJECT LENGTH	1,075
Item Description	Quantity	Units	Unit Cost	Total Cost	
<b>Earthwork</b>					
Roadway Excavation	3,355	CY	\$30.00	\$100,649	
Earthwork/Grading Factor			90%	\$90,584	
<b>Existing Facilities</b>					
Sawcut Existing Asphalt Concrete	2,150	LF	\$2.50	\$5,375	
Removal of Striping	4,300	LF	\$1.25	\$5,375	
Removal of Pavement Markings	405	SF	\$3.00	\$1,215	
Relocate Existing Fence	600	LF	\$20.00	\$12,000	
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	1,596	Ton	\$110.00	\$175,601	
Class 2 Aggregate Base	2,264	CY	\$60.00	\$135,832	
AC Overlay	403	Ton	\$110.00	\$44,344	
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%	\$82,051	
<b>Specialty Items</b>					
Concrete Sidewalk	12,900	SF	\$10.00	\$129,000	
Curb and Gutter	2,150	LF	\$30.00	\$64,500	
Driveway	2	EA	\$4,000.00	\$8,000	
Sidewalk Ramp	2	EA	\$2,500.00	\$5,000	
<b>Traffic Items</b>					
Striping Imps (4 lanes)	1,075	LF	\$6.00	\$6,450	
Pavement Markings	540	SF	\$5.00	\$2,700	
Signs	4	EA	\$300.00	\$1,290	
<b>Subtotal Roadway Construction Items</b>				<b>\$869,966</b>	
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%	\$34,799	
Construction Contingency			25%	\$217,492	
<b>Subtotal Supplemental Items</b>				<b>\$252,290</b>	
<b>Construction Subtotal</b>				<b>\$1,122,256</b>	
<b>Right-of-Way</b>					
Undeveloped	43,000	SF	\$10.00	\$430,000	
Right-of-way Acquisition Support			10%	\$43,000	
<b>Subtotal R/W Items</b>				<b>\$473,000</b>	
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%	\$112,226	
PS&E (PS)			20%	\$224,451	
CONSTRUCTION (CM)			15%	\$168,338	
<b>Subtotal Capital Support Items</b>				<b>\$505,015</b>	
<b>Project Total</b>				<b>\$2,100,272</b>	
<b>Rounded</b>				<b>\$2,101,000</b>	

Prepared By:

**PRELIMINARY COST**



**Project Limits: Deer Valley Rd to N. Shingle Rd & Tennessee Creek Bridge to Dry Creek Bridge (southwest of Lotus Rd)**

**TYPE: 3-LANE**

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				<b>PROJECT LENGTH</b>	<b>6,655</b>
Item Description	Quantity	Units	Unit Cost	Total Cost	
<b>Earthwork</b>					
Roadway Excavation	13,449	CY	\$30.00	\$403,470	
Earthwork/Grading Factor			150%	\$605,206	
<b>Existing Facilities</b>					
Sawcut Existing Asphalt Concrete	13,310	LF	\$2.50	\$33,275	
Removal of Striping	19,965	LF	\$1.25	\$24,956	
Removal of Pavement Markings	180	SF	\$3.00	\$540	
Relocate Existing Fence	1,320	LF	\$20.00	\$26,400	
Remove Tree	25	EA	\$700.00	\$17,500	
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	6,588	Ton	\$110.00	\$724,730	
Class 2 Aggregate Base	8,898	CY	\$60.00	\$533,879	
AC Overlay	1,198	Ton	\$110.00	\$131,769	
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%	\$359,858	
Relocate Utility Pole	10	EA	\$10,000.00	\$100,000	
<b>Specialty Items</b>					
Concrete Sidewalk	0	SF	\$10.00	\$0	
Curb and Gutter	13,310	LF	\$30.00	\$399,300	
Small Retaining Wall (0 to 5')	500	LF	\$200.00	\$100,000	
Medium Retaining Wall (6 to 10')	250	LF	\$400.00	\$100,000	
Midwest Guardrail System <sup>1</sup>	2000	LF	\$100.00	\$200,000	
<b>Traffic Items</b>					
Striping Imps (3 lanes)	6,655	LF	\$4.50	\$29,948	
Pavement Markings	450	SF	\$5.00	\$2,250	
Signs	27	EA	\$300.00	\$7,986	
<b>Subtotal Roadway Construction Items</b>				<b>\$3,801,066</b>	
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%	\$152,043	
Construction Contingency			25%	\$950,267	
<b>Subtotal Supplemental Items</b>				<b>\$1,102,309</b>	
<b>Structure Items</b>					
Box Culvert	400	SF	\$200.00	\$80,000	
Mobilization			10%	\$8,000	
Time-Related Overhead			10%	\$8,000	
<b>Subtotal Structure Construction Items</b>				<b>\$96,000</b>	
<b>Construction Subtotal</b>				<b>\$4,999,376</b>	
<b>Right-of-Way</b>					
Undeveloped	202,955	SF	\$10.00	\$2,029,550	
Right-of-way Acquisition Support			10%	\$202,955	
<b>Subtotal R/W Items</b>				<b>\$2,232,505</b>	
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%	\$499,938	
PS&E (PS)			20%	\$999,875	
CONSTRUCTION (CM)			15%	\$749,906	
<b>Subtotal Capital Support Items</b>				<b>\$2,249,719</b>	
<b>Project Total</b>				<b>\$9,481,600</b>	
<b>Rounded</b>				<b>\$9,482,000</b>	
1. Length of guardrail is approximate for phase but best judgement was applied based on where there is existing guardrailing and where additional guardrailing could be required.					

Prepared By:

**PRELIMINARY COST**



**Project Limits: east of Francisco Dr to east of Silva Valley Rd**

**TYPE: 4-LANE (with two-way left turn lane)**

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				<b>PROJECT LENGTH</b>	<b>3,400</b>
<b>Item Description</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Total Cost</b>	
<b>Earthwork</b>					
Roadway Excavation	11,806	CY	\$30.00	\$354,174	
Earthwork/Grading Factor			150%	\$531,261	
<b>Existing Facilities</b>					
Sawcut Existing Asphalt Concrete	6,800	LF	\$2.50	\$17,000	
Removal of Striping	13,600	LF	\$1.25	\$17,000	
Removal of Pavement Markings	405	SF	\$3.00	\$1,215	
Relocate Existing Fence	600	LF	\$20.00	\$12,000	
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	5,857	Ton	\$110.00	\$644,280	
Class 2 Aggregate Base	7,814	CY	\$60.00	\$468,864	
AC Overlay	1,275	Ton	\$110.00	\$140,250	
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%	\$320,824	
Relocate Utility Pole	2	EA	\$10,000.00	\$20,000	
<b>Specialty Items</b>					
Concrete Sidewalk	11,220	SF	\$10.00	\$112,200	
Curb and Gutter	6,800	LF	\$30.00	\$204,000	
Driveway	1	EA	\$4,000.00	\$4,000	
Sidewalk Ramp	3	EA	\$2,500.00	\$7,500	
<b>Traffic Items</b>					
Traffic Signal Modification (high) <sup>2</sup>	2	LS	\$170,000.00	\$340,000	
Striping Imps (4 lanes)	3,400	LF	\$6.00	\$20,400	
Pavement Markings	540	SF	\$5.00	\$2,700	
Signs	14	EA	\$300.00	\$4,080	
<b>Subtotal Roadway Construction Items</b>				<b>\$3,221,748</b>	
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%	\$128,870	
Construction Contingency			25%	\$805,437	
<b>Subtotal Supplemental Items</b>				<b>\$934,307</b>	
<b>Construction Subtotal</b>				<b>\$4,156,055</b>	
<b>Right-of-Way<sup>1</sup></b>					
Undeveloped	160	SF	\$10.00	\$1,600	
Right-of-way Acquisition Support			10%	\$160	
<b>Subtotal R/W Items</b>				<b>\$1,760</b>	
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%	\$415,605	
PS&E (PS)			20%	\$831,211	
CONSTRUCTION (CM)			15%	\$623,408	
<b>Subtotal Capital Support Items</b>				<b>\$1,870,225</b>	
<b>Project Total</b>				<b>\$6,028,039</b>	
<b>Rounded</b>				<b>\$6,029,000</b>	
1. Existing right of way is greater than 80' throughout segment. Only right of way take estimated is at the northeast corner of the Silva Valley intersection.   2. Assumed signal modifications at intersection 2. Signal modifications at intersections with El Dorado Hills Blvd and Silva Valley Rd.					



**PRELIMINARY COST**



**Project Limits: at Carson Crossing Road intersection; west of Latrobe Rd**  
**(400-ft restripe east and west of intersection along Golden Foothill Pkwy)**

**TYPE: 2-LANE**

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

**PROJECT LENGTH 800**

Item Description	Quantity	Units	Unit Cost	Total Cost
<b>Earthwork</b>				
Roadway Excavation	0	CY	\$30.00	\$0
<b>Specialty Items</b>				
Sidewalk Ramp	2	EA	\$2,500.00	\$5,000
<b>Traffic Items</b>				
Traffic Signal New (low)	1	LS	\$190,000.00	\$190,000
Striping Imps (3 lanes)	550	LF	\$4.50	\$2,475
Striping Imps (2 lanes)	250	LF	\$4.50	\$1,125
Pavement Markings	270	SF	\$5.00	\$1,350
Signs	8	EA	\$300.00	\$2,400
<b>Subtotal Roadway Construction Items</b>				<b>\$202,350</b>
<b>Supplemental Items</b>				
Traffic Management Plan/Traffic Control			4%	\$8,094
Construction Contingency			25%	\$50,588
<b>Subtotal Supplemental Items</b>				<b>\$58,682</b>
<b>Construction Subtotal</b>				<b>\$261,032</b>
<b>Right-of-Way</b>				
Undeveloped	0	SF	\$10.00	\$0
Right-of-way Acquisition Support			10%	\$0
<b>Subtotal R/W Items</b>				<b>\$0</b>
<b>Capital Support</b>				
PR/ED (PD,PE,PM)			10%	\$26,103
PS&E (PS)			20%	\$52,206
CONSTRUCTION (CM)			15%	\$39,155
<b>Subtotal Capital Support Items</b>				<b>\$117,464</b>
<b>Project Total</b>				<b>\$378,496</b>
<b>Rounded</b>				<b>\$379,000</b>

Prepared By:

**PRELIMINARY COST**



**Project Limits: From Post Street to south of Silva Valley Road Overcrossing**

**TYPE: 4-LANE**

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				PROJECT LENGTH	3,560
Item Description	Quantity	Units	Unit Cost	Total Cost	
<b>Earthwork</b>					
Roadway Excavation	9,431	CY	\$30.00		\$282,941
Earthwork/Grading Factor			90%		\$254,647
<b>Existing Facilities</b>					
Sawcut Existing Asphalt Concrete	7,120	LF	\$2.50		\$17,800
Removal of Striping	8,900	LF	\$1.25		\$11,125
Removal of Pavement Markings	540	SF	\$3.00		\$1,620
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	4,482	Ton	\$110.00		\$493,045
Class 2 Aggregate Base	6,371	CY	\$60.00		\$382,278
AC Overlay	787	Ton	\$110.00		\$86,576
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%		\$224,923
Relocate Utility Pole	7	EA	\$10,000.00		\$70,000
<b>Specialty Items</b>					
Concrete Sidewalk	38,640	SF	\$10.00		\$386,400
Curb and Gutter	5,720	LF	\$30.00		\$171,600
Driveway	11	EA	\$4,000.00		\$44,000
Sidewalk Ramp	14	EA	\$2,500.00		\$35,000
<b>Traffic Items</b>					
Striping Imps (4 lanes)	3,560	LF	\$6.00		\$21,360
Signs	14	EA	\$300.00		\$4,200
<b>Subtotal Roadway Construction Items</b>					<b>\$2,487,515</b>
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%		\$99,501
Construction Contingency			25%		\$621,879
<b>Subtotal Supplemental Items</b>					<b>\$721,379</b>
<b>Structure Items</b>					
Bridge	800	SF	\$300.00		\$240,000
Bridge Mobilization			10%		\$24,000
Bridge Time-Related Overhead			10%		\$24,000
<b>Subtotal Structure Construction Items</b>					<b>\$288,000</b>
<b>Construction Subtotal</b>					<b>\$3,496,894</b>
<b>Right-of-Way</b>					
Undeveloped	49,700	SF	\$10.00		\$497,000
Right-of-way Acquisition Support			10%		\$49,700
<b>Subtotal R/W Items</b>					<b>\$546,700</b>
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%		\$349,689
PS&E (PS)			20%		\$699,379
CONSTRUCTION (CM)			15%		\$524,534
<b>Subtotal Capital Support Items</b>					<b>\$1,573,602</b>
<b>Project Total</b>					<b>\$5,617,197</b>
<b>Rounded</b>					<b>\$5,618,000</b>

Prepared By:

**PRELIMINARY COST**



**Project Limits: connect to Iron Point Road  
(improvement limits end at El Dorado Hills Blvd)**

**TYPE: 4-LANE**

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				<b>PROJECT LENGTH</b>	<b>5,850</b>
<b>Item Description</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Total Cost</b>	
<b>Earthwork</b>					
Roadway Excavation	21,681	CY	\$30.00	\$650,444	
Earthwork/Grading Factor			90%	\$585,399	
<b>Existing Facilities</b>					
Sawcut Existing Asphalt Concrete	2,600	LF	\$2.50	\$6,500	
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	10,967	Ton	\$110.00	\$1,206,340	
Class 2 Aggregate Base	14,321	CY	\$60.00	\$859,249	
AC Overlay	607	Ton	\$110.00	\$66,726	
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%	\$505,224	
Relocate Utility Pole	1	EA	\$10,000.00	\$10,000	
<b>Specialty Items</b>					
Concrete Sidewalk	35,100	SF	\$10.00	\$351,000	
Curb and Gutter	2,300	LF	\$30.00	\$69,000	
Driveway	2	EA	\$4,000.00	\$8,000	
Sidewalk Ramp	2	EA	\$2,500.00	\$5,000	
Small Retaining Wall (0 to 5')	300	LF	\$200.00	\$60,000	
<b>Traffic Items</b>					
Traffic Signal New (high)	1	LS	\$290,000.00	\$290,000	
Striping Imps (4 lanes)	5,850	LF	\$6.00	\$35,100	
Pavement Markings	990	SF	\$5.00	\$4,950	
Signs	23	EA	\$300.00	\$7,020	
<b>Subtotal Roadway Construction Items</b>				<b>\$4,719,951</b>	
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%	\$188,798	
Construction Contingency			25%	\$1,179,988	
<b>Subtotal Supplemental Items</b>				<b>\$1,368,786</b>	
<b>Structure Items</b>					
Box Culvert	2,000	SF	\$200.00	\$400,000	
Mobilization			10%	\$40,000	
Time-Related Overhead			10%	\$40,000	
<b>Subtotal Structure Construction Items</b>				<b>\$480,000</b>	
<b>Construction Subtotal</b>				<b>\$6,568,737</b>	
<b>Right-of-Way</b>					
Undeveloped	184,000	SF	\$10.00	\$1,840,000	
Right-of-way Acquisition Support			10%	\$184,000	
<b>Subtotal R/W Items</b>				<b>\$2,024,000</b>	
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%	\$656,874	
PS&E (PS)			20%	\$1,313,747	
CONSTRUCTION (CM)			15%	\$985,311	
<b>Subtotal Capital Support Items</b>				<b>\$2,955,932</b>	
<b>Project Total</b>				<b>\$11,548,669</b>	
<b>Rounded</b>				<b>\$11,549,000</b>	

1. Utility relocations are considered as franchised with no cost to project.

Prepared By:

**PRELIMINARY COST**



Project Limits: east of El Dorado Hills Blvd to Silva Valley Pkwy

TYPE: 2-LANE

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				PROJECT LENGTH	4,970
Item Description	Quantity	Units	Unit Cost	Total Cost	
<b>Earthwork</b>					
Roadway Excavation	17,090	CY	\$30.00	\$512,705	
Earthwork/Grading Factor			90%	\$461,435	
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	8,201	Ton	\$110.00	\$902,055	
Class 2 Aggregate Base	10,308	CY	\$60.00	\$618,489	
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%	\$374,203	
<b>Specialty Items</b>					
Concrete Sidewalk	59,640	SF	\$10.00	\$596,400	
Curb and Gutter	9,940	LF	\$30.00	\$298,200	
Driveway	12	EA	\$4,000.00	\$48,000	
Sidewalk Ramp	10	EA	\$2,500.00	\$25,000	
<b>Traffic Items</b>					
Striping Imps (2 lanes)	4,970	LF	\$4.50	\$22,365	
Pavement Markings	540	SF	\$5.00	\$2,700	
Signs	14	EA	\$300.00	\$4,200	
<b>Subtotal Roadway Construction Items</b>				<b>\$3,865,751</b>	
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%	\$154,630	
Construction Contingency			25%	\$966,438	
<b>Subtotal Supplemental Items</b>				<b>\$1,121,068</b>	
<b>Structure Items</b>					
Box Culvert	400	SF	\$200.00	\$80,000	
Mobilization			10%	\$8,000	
Time-Related Overhead			10%	\$8,000	
<b>Subtotal Structure Construction Items</b>				<b>\$96,000</b>	
<b>Construction Subtotal</b>				<b>\$5,082,819</b>	
<b>Right-of-Way <sup>1</sup></b>					
Developed (parking)	13	Stall	\$2,500.00	\$32,500	
Developed (landscaped)	3,400	SF	\$17.50	\$59,500	
Undeveloped	298,200	SF	\$10.00	\$2,982,000	
Right-of-way Acquisition Support			10%	\$307,400	
<b>Subtotal R/W Items</b>				<b>\$3,381,400</b>	
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%	\$508,282	
PS&E (PS)			20%	\$1,016,564	
CONSTRUCTION (CM)			15%	\$762,423	
<b>Subtotal Capital Support Items</b>				<b>\$2,287,269</b>	
<b>Project Total</b>				<b>\$10,751,488</b>	
<b>Rounded</b>				<b>\$10,752,000</b>	

1. Right of way and feasibility need to be researched through Raley's shopping center.

Prepared By:

# PRELIMINARY COST



Project Limits: Silva Valley Pkwy to Tong Road

TYPE: 2-LANE (with two-way left turn lane)

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				PROJECT LENGTH	3,600
Item Description	Quantity	Units	Unit Cost	Total Cost	
<b>Earthwork</b>					
Roadway Excavation	11,767	CY	\$30.00	\$353,024	
Earthwork/Grading Factor			90%	\$317,722	
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	5,622	Ton	\$110.00	\$618,461	
Class 2 Aggregate Base	7,929	CY	\$60.00	\$475,724	
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%	\$264,740	
<b>Specialty Items</b>					
Concrete Sidewalk	43,200	SF	\$10.00	\$432,000	
Curb and Gutter	7,200	LF	\$30.00	\$216,000	
Driveway	8	EA	\$4,000.00	\$32,000	
Sidewalk Ramp	8	EA	\$2,500.00	\$20,000	
<b>Traffic Items</b>					
Traffic Signal New (high)	1	LS	\$290,000.00	\$290,000	
Striping Imps (4 lanes)	270	LF	\$6.00	\$1,620	
Striping Imps (2 lanes)	2,315	LF	\$4.50	\$10,418	
Pavement Markings	450	SF	\$5.00	\$2,250	
Signs	20	EA	\$300.00	\$6,000	
<b>Subtotal Roadway Construction Items</b>				<b>\$3,039,959</b>	
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%	\$121,598	
Construction Contingency			25%	\$759,990	
<b>Subtotal Supplemental Items</b>				<b>\$881,588</b>	
<b>Structure Items</b>					
Box Culvert	320	SF	\$200.00	\$64,000	
Bridge Mobilization			10%	\$6,400	
Bridge Time-Related Overhead			10%	\$6,400	
<b>Subtotal Structure Construction Items</b>				<b>\$76,800</b>	
<b>Construction Subtotal</b>				<b>\$3,998,347</b>	
<b>Right-of-Way</b>					
Undeveloped	222,000	SF	\$10.00	\$2,220,000	
Right-of-way Acquisition Support			10%	\$222,000	
<b>Subtotal R/W Items</b>				<b>\$2,442,000</b>	
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%	\$399,835	
PS&E (PS)			20%	\$799,669	
CONSTRUCTION (CM)			15%	\$599,752	
<b>Subtotal Capital Support Items</b>				<b>\$1,799,256</b>	
<b>Project Total</b>				<b>\$8,239,604</b>	
<b>Rounded</b>				<b>\$8,240,000</b>	

Prepared By:

# PRELIMINARY COST



Project Limits: from Tong Road to Bass Lake Rd/Old Bass Lake Rd

TYPE: 2-LANE with 8' Shoulders

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				PROJECT LENGTH	6,000
Item Description	Quantity	Units	Unit Cost	Total Cost	
<b>Earthwork</b>					
Roadway Excavation	19,752	CY	\$30.00	\$592,560	
Earthwork/Grading Factor			150%	\$888,840	
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	9,900	Ton	\$110.00	\$1,089,000	
Class 2 Aggregate Base	13,000	CY	\$60.00	\$780,000	
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%	\$502,560	
<b>Specialty Items</b>					
Concrete Sidewalk	0	SF	\$10.00	\$0	
Curb and Gutter	12,000	LF	\$30.00	\$360,000	
<b>Traffic Items</b>					
Traffic Signal New (high)	1	LS	\$290,000.00	\$290,000	
Striping Imps (2 lanes)	6,000	LF	\$4.50	\$27,000	
Pavement Markings	450	SF	\$5.00	\$2,250	
Signs	20	EA	\$300.00	\$6,000	
<b>Subtotal Roadway Construction Items</b>				<b>\$4,538,210</b>	
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%	\$181,528	
Construction Contingency			25%	\$1,134,553	
<b>Subtotal Supplemental Items</b>				<b>\$1,316,081</b>	
<b>Construction Subtotal</b>				<b>\$5,854,291</b>	
<b>Right-of-Way</b>					
Undeveloped	360,000	SF	\$10.00	\$3,600,000	
Right-of-way Acquisition Support			10%	\$360,000	
<b>Subtotal R/W Items</b>				<b>\$3,960,000</b>	
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%	\$585,429	
PS&E (PS)			20%	\$1,170,858	
CONSTRUCTION (CM)			15%	\$878,144	
<b>Subtotal Capital Support Items</b>				<b>\$2,634,431</b>	
<b>Project Total</b>				<b>\$12,448,722</b>	
<b>Rounded</b>				<b>\$12,449,000</b>	

Prepared By:

# PRELIMINARY COST



Project Limits: from Bass Lake Rd/Old Bass Lake Rd to Tierra De Dios Dr

TYPE: 2-LANE with 8' Shoulders

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				PROJECT LENGTH	5,100
Item Description	Quantity	Units	Unit Cost	Total Cost	
<b>Earthwork</b>					
Roadway Excavation	12,976	CY	\$30.00	\$389,276	
Earthwork/Grading Factor			150%	\$583,914	
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	6,435	Ton	\$110.00	\$707,850	
Class 2 Aggregate Base	8,561	CY	\$60.00	\$513,667	
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%	\$329,206	
<b>Specialty Items</b>					
Concrete Sidewalk	0	SF	\$10.00	\$0	
Curb and Gutter	10,200	LF	\$30.00	\$306,000	
<b>Traffic Items</b>					
Striping Imps (2 lanes)	5,100	LF	\$4.50	\$22,950	
Pavement Markings	450	SF	\$5.00	\$2,250	
Signs	16	EA	\$300.00	\$4,800	
<b>Subtotal Roadway Construction Items</b>				<b>\$2,859,913</b>	
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%	\$114,397	
Construction Contingency			25%	\$714,978	
<b>Subtotal Supplemental Items</b>				<b>\$829,375</b>	
<b>Construction Subtotal</b>				<b>\$3,689,287</b>	
<b>Right-of-Way</b>					
Undeveloped	246,000	SF	\$10.00	\$2,460,000	
Right-of-way Acquisition Support			10%	\$246,000	
<b>Subtotal R/W Items</b>				<b>\$2,706,000</b>	
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%	\$368,929	
PS&E (PS)			20%	\$737,857	
CONSTRUCTION (CM)			15%	\$553,393	
<b>Subtotal Capital Support Items</b>				<b>\$1,660,179</b>	
<b>Project Total</b>				<b>\$8,055,467</b>	
<b>Rounded</b>				<b>\$8,056,000</b>	

Prepared By:

**PRELIMINARY COST**

Project Limits: from Missouri Flat Rd to Route 49

TYPE: 2-LANE with 8' Shoulders

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				PROJECT LENGTH	4,300
Item Description	Quantity	Units	Unit Cost	Total Cost	
<b>Earthwork</b>					
Roadway Excavation	14,786	CY	\$30.00	\$443,588	
Earthwork/Grading Factor			90%	\$399,229	
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	7,095	Ton	\$110.00	\$780,450	
Class 2 Aggregate Base	8,919	CY	\$60.00	\$535,111	
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%	\$323,757	
<b>Specialty Items</b>					
Concrete Sidewalk	51,600	SF	\$10.00	\$516,000	
Curb and Gutter	8,600	LF	\$30.00	\$258,000	
Driveway	11	EA	\$4,000.00	\$44,000	
Sidewalk Ramp	12	EA	\$2,500.00	\$30,000	
<b>Traffic Items</b>					
Traffic Signal New (low)	2	LS	\$190,000.00	\$380,000	
Striping Imps (2 lanes)	4,300	LF	\$4.50	\$19,350	
Pavement Markings	450	SF	\$5.00	\$2,250	
Signs	18	EA	\$300.00	\$5,400	
<b>Subtotal Roadway Construction Items</b>				<b>\$3,737,135</b>	
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%	\$149,485	
Construction Contingency			25%	\$934,284	
<b>Subtotal Supplemental Items</b>				<b>\$1,083,769</b>	
<b>Construction Subtotal</b>				<b>\$4,820,904</b>	
<b>Right-of-Way</b>					
Developed (parking)	16	Stall	\$2,500.00	\$40,000	
Developed (landscaped)	0	SF	\$17.50	\$0	
Developed (building)	16,500	SF	\$200.00	\$3,300,000	
Undeveloped	258,000	SF	\$10.00	\$2,580,000	
Right-of-way Acquisition Support			10%	\$592,000	
<b>Subtotal R/W Items</b>				<b>\$6,512,000</b>	
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%	\$482,090	
PS&E (PS)			20%	\$964,181	
CONSTRUCTION (CM)			15%	\$723,136	
<b>Subtotal Capital Support Items</b>				<b>\$2,169,407</b>	
<b>Phase 1A – Caltrans Improvements</b>				<b>\$9,800,000</b>	
<b>Project Total</b>				<b>\$23,302,311</b>	
<b>Rounded</b>				<b>\$23,303,000</b>	



Prepared By:

**PRELIMINARY COST**



**Project Limits: from El Dorado Rd to Missouri Flat Rd**

**TYPE: 2-LANE with Two-way Left-Turn Lane**

Right-of-Way and proposed improvements are approximate only, information shown is for cost estimating purposes only and is not accurate for determining construction limits.

				<b>PROJECT LENGTH</b>	<b>1,600</b>
Item Description	Quantity	Units	Unit Cost	Total Cost	
<b>Earthwork</b>					
Roadway Excavation	7,027	CY	\$30.00	\$210,816	
Earthwork/Grading Factor			220%	\$463,795	
<b>Structural Section</b>					
Hot Mix Asphalt (Type A)	3,432	Ton	\$110.00	\$377,520	
Class 2 Aggregate Base	4,314	CY	\$60.00	\$258,844	
<b>Drainage &amp; Utilities</b>					
Drainage (15% of Earthwork & Struc Sec total)			15%	\$196,646	
<b>Specialty Items</b>					
Concrete Sidewalk	19,200	SF	\$10.00	\$192,000	
Curb and Gutter	3,200	LF	\$30.00	\$96,000	
Driveway	4	EA	\$4,000.00	\$16,000	
Sidewalk Ramp	6	EA	\$2,500.00	\$15,000	
<b>Traffic Items</b>					
Traffic Signal New (low)	1	LS	\$190,000.00	\$190,000	
Striping Imps (2 lanes)	1,600	LF	\$4.50	\$7,200	
Pavement Markings	360	SF	\$5.00	\$1,800	
Signs	12	EA	\$300.00	\$3,600	
<b>Subtotal Roadway Construction Items</b>				<b>\$2,029,222</b>	
<b>Supplemental Items</b>					
Traffic Management Plan/Traffic Control			4%	\$81,169	
Construction Contingency			25%	\$507,305	
<b>Subtotal Supplemental Items</b>				<b>\$588,474</b>	
<b>Construction Subtotal</b>				<b>\$2,617,696</b>	
<b>Right-of-Way</b>					
Undeveloped	96,000	SF	\$10.00	\$960,000	
Right-of-way Acquisition Support			10%	\$96,000	
<b>Subtotal R/W Items</b>				<b>\$1,056,000</b>	
<b>Capital Support</b>					
PR/ED (PD,PE,PM)			10%	\$261,770	
PS&E (PS)			20%	\$523,539	
CONSTRUCTION (CM)			15%	\$392,654	
<b>Subtotal Capital Support Items</b>				<b>\$1,177,963</b>	
<b>Project Total</b>				<b>\$4,851,660</b>	
<b>Rounded</b>				<b>\$4,852,000</b>	

**TIM Fee Update  
El Dorado County**

**INTERCHANGES Summary**

<b>No.</b>	<b>Interchange</b>	<b>Improvement Notes</b>	<b>Cost</b>
1	Cameron Park Dr	Interchange reconfiguration; new overcrossing structure	\$ 87,284,000
2	El Dorado Hills Blvd	Interchange reconfiguration; exist structure to remain	\$ 8,381,000
3	El Dorado Road	Interchange reconfiguration; widen exist overcrossing	\$ 15,636,000
4	Ponderosa Rd	Interchange reconfiguration; new overcrossing structure	\$ 39,417,000
5	Bass Lake Rd	Existing undercrossing structure to remain	\$ 5,872,500
6	Cambridge Rd	Interchange modification; exist structure to remain	\$ 8,613,000
7	Silva Valley Pkwy-Ph2	Interchange mod.; add wb loop on-ramp & widen mainline	\$ 7,658,000

## ***DRAFT Planning Cost Estimate***

**PROJECT DESCRIPTION:** Cameron Park Drive Interchange reconfiguration on US-50 between Cambridge Road and Ponderosa Road/South Shingle Road interchange

**Limits:** US-50 from 0.02 miles east of Cambridge Road OC to 0.2 miles west of the Ponderosa Road/South Shingle Road OC.

**Alternative:** Alternative 1

**Proposed Improvement:** Widen existing interchange configuration of a partial cloverleaf for the westbound ramps, a compact diamond for the eastbound ramps, Cameron Park Drive, and construct new bridge structures. Includes AC overlay of US-50 between ramps.

### **SUMMARY OF PROJECT COST ESTIMATE**

TOTAL ROADWAY ITEMS		<b>\$40,730,000</b>
TOTAL STRUCTURE ITEMS		<b>\$7,732,000</b>
	SUBTOTAL CONSTRUCTION COSTS	<b>\$48,462,000</b>
TOTAL RIGHT OF WAY ITEMS		<b>\$17,014,000</b>
CAPITAL SUPPORT		
	PR/ED (PD,PE,PM) 10%	\$4,846,200
	PS&E (PS) 20%	\$9,692,400
	CONSTRUCTION (CM) 15%	\$7,269,300
	SUBTOTAL CAPITAL SUPPORT	\$21,807,900
	SUBTOTAL CAPITAL SUPPORT (Rounded)	<b>\$21,808,000</b>
	TOTAL PROJECT CAPITAL OUTLAY COSTS	<b>\$87,284,000</b>



<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls	23,856	SF	\$150.00	\$3,578,400.00	
Noise Barriers	18,000	SF	\$50.00	\$900,000.00	
Metal Beam Guard Rail		FT		\$0.00	
Highway Planting	5	ACRE	\$136,800.00	\$684,000.00	
Replacement Planting	3	ACRE	\$74,100.00	\$222,300.00	
Irrigation Modification	1	LS	\$36,480.00	\$36,480.00	
Relocate Private Irrigation Facilities	1	LS	\$45,600.00	\$45,600.00	
Erosion Control	1	LS	\$57,000.00	\$57,000.00	
Stormwater Treatment BMPs	1	LS	\$3,534,000.00	\$3,534,000.00	
Prepare SWPPP	1	LS	\$79,800.00	\$79,800.00	
Storm Water Construction BMPs	1	LS	\$1,140,000.00	\$1,140,000.00	
Environmental Mitigation	1	LS	\$1,140,000.00	\$1,140,000.00	
Resident Engineer Office Space	1	LS	\$85,500.00	\$85,500.00	
				Subtotal Specialty Items	<u>\$11,503,080.00</u>
<u>Section 5 Traffic Items</u>					
Lighting	1	LS	\$228,000.00	\$228,000.00	
Traffic Delineation Items	1	LS	\$51,300.00	\$51,300.00	
Pavement Marker (Retroreflective)		EA		\$0.00	
Traffic Signals	3	EA	\$228,000.00	\$684,000.00	
Overhead Sign Structures		EA		\$0.00	
Traffic Signs	1	LS	\$79,800.00	\$79,800.00	
Traffic control Systems	1	LS	\$1,459,200.00	\$1,459,200.00	
Transportation Management Plan	1	LS	\$68,400.00	\$68,400.00	
Portable Changeable Message Signs		LS		\$0.00	
Construction Area Signs		LS		\$0.00	
Reset Temporary Railing (Type K)	6,000	FT	\$28.50	\$171,000.00	
Temporary Railing (Type K)	19,400	FT	\$28.50	\$552,900.00	
CHP Enhanced Enforcement		LS		\$0.00	
COZEEP/FSP	1	LS	\$79,800.00	\$79,800.00	
Maintain Traffic	1	LS	\$583,680.00	\$583,680.00	
Public Information	1	LS	\$57,000.00	\$57,000.00	
New Ramp Meter Installation	3	EA	\$91,200.00	\$273,600.00	
				Subtotal Traffic Items	<u>\$4,288,680.00</u>

Section 6 Minor Items

\$25,535,935.00 x 10% =  
(Subtotal Sections 1 thru 7)

TOTAL MINOR ITEMS \$2,553,593.50

Section 7 Roadway Mobilization

\$28,089,528.50 x 10% =  
(Subtotal Sections 1 thru 6)

TOTAL ROADWAY MOBILIZATION \$2,808,952.85

Section 8 Roadway Additions

Supplemental Work

\$28,089,528.50 x 10% =  
(Subtotal Sections 1 thru 6)

\$2,808,952.85

Contingencies

\$28,089,528.50 x 25% =  
(Subtotal Sections 1 thru 6)

\$7,022,382.13

TOTAL ROADWAY ADDITIONS \$9,831,334.98

TOTAL ROADWAY ITEMS \$40,729,816.33  
(Subtotal Sections 1 thru 8)

Estimate Prepared By: Sam Chui

Phone # (510) 622-6641

Date: 8/12/2008

Estimate Checked By: Jean Freking

Phone # (916) 929-3124

Date: 8/12/2008

\*Use appropriate percentage per Chapter 3-50 of Project Development Procedures Manual: PSR 25%, Draft PR 20%, PR 15%

III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)
Bridge Name	CPD UC (R/L)		
	CIP P/S Box		
Structure Type	Girder		
Width (out to out) - (ft)	Varies		
Span Lengths - (ft)	181		
Total Area - (ft <sup>2</sup> )	24,544		
Footing Type (pile/spread)	Spread		
Cost Per ft2	\$300		
(including 10% mobilization and 20% contingency)			
Total Cost for Structure	\$7,363,200.00		
Total Cost of Demolition	\$368,160.00		
		SUBTOTAL STRUCTURES ITEMS	\$7,731,360.00
		(Sum of Total Cost for Structures)	
Railroad Related Costs			
		SUBTOTAL RAILROAD ITEMS	\$0.00
		TOTAL STRUCTURES ITEMS	\$7,731,360.00
		TOTAL STRUCTURES ITEMS (Rounded)	\$7,732,000.00
		(Sum of Structures Items plus Railroad Items)	

COMMENTS:

Estimate Prepared By: Sam Chui

Phone # (510) 622-6641

Date: 8/12/2008

NOTE: If appropriate, attach additional pages and backup.

IV. RIGHT OF WAY ITEMS	ESCALATED VALUE
A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill	\$14,726,909.61
B. Mitigation acquisition & credits	\$0.00
C. Project Development Permit Fees	\$52,627.06
D. Utility Relocation (State Share)	\$0.00
E. Relocation Assistance	\$1,503,630.26
F. Clearance/Demolition	\$270,653.45
G. Title and Escrow Fees	\$76,685.14
H. SB 1210 Costs	\$383,425.72
<b>TOTAL RIGHT OF WAY ITEMS</b>	<b>\$17,014,000.00</b>

Anticipated Date of Right of Way Certification  
(Date to which Values are Escalated)

F. Construction Contract Work	\$0.00
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Brief Description of Work:

Right of Way Items will be determined in the draft PSR.

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Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

**COMMENTS:**

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By: Sam Chui

Phone # (510) 622-6641

Date: 8/12/2008

NOTE: If appropriate, attach additional pages and backup.



## ***DRAFT Planning Cost Estimate***

**PROJECT DESCRIPTION:** El Dorado Hills Interchange Reconstruction

**Limits:** ED-50 PM 0.50/1.10

**Proposed Improvement:** ULTIMATE IMPROVEMENTS - 4:1 Fill Slopes Outside Widening/2:1 Cut Slopes  
Reconstruct El Dorado Hills Interchange to ultimate configuration  
EBOFF LOOP  
EBON

### **SUMMARY OF PROJECT COST ESTIMATE**

TOTAL ROADWAY ITEMS		<b>\$5,780,000</b>
TOTAL STRUCTURE ITEMS		<b>\$0</b>
	SUBTOTAL CONSTRUCTION COSTS	<b>\$5,780,000</b>
TOTAL RIGHT OF WAY ITEMS		<b>\$0</b>
	CAPITAL SUPPORT	
	PR/ED (PD,PE,PM)	10% <b>\$578,000</b>
	PS&E (PS)	20% <b>\$1,156,000</b>
	CONSTRUCTION (CM)	15% <b>\$867,000</b>
	SUBTOTAL CAPITAL SUPPORT	<b>\$2,601,000</b>
	TOTAL PROJECT CAPITAL OUTLAY COSTS	<b>\$8,381,000</b>

I. ROADWAY ITEMS

<u>Section 1 Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	8833	CY	\$30.00	\$264,990.00	
Imported Borrow		CY	\$45.00	\$0.00	
Clearing & Grubbing	1	LS	\$14,100.00	\$14,100.00	
Develop Water Supply	1	LS	\$14,100.00	\$14,100.00	
				Subtotal Earthwork	<u>\$293,190.00</u>

Section 2 Pavement Structural Section

PCC Pavement (___Depth)				\$0.00	
Asphalt Concrete HMA	4420	TONS	\$110.00	\$486,200.00	
Asphalt Concrete RHMA-O	800	TONS	\$120.00	\$96,000.00	
Lean Concrete Base				\$0.00	
Cement-Treated Base				\$0.00	
Aggregate Base	3500	CY	\$60.00	\$210,000.00	
Treated Permeable Base				\$0.00	
Aggregate Subbase				\$0.00	
Pavement Reinforcing Fabric				\$0.00	
Edge Drains				\$0.00	
				Subtotal Pavement Structural Section	<u>\$792,200.00</u>

Section 3 Drainage

Large Drainage Facilities				\$0.00	
Storm Drains		LS		\$0.00	
Pumping Plants				\$0.00	
Project Drainage	1	LS	\$170,000.00	\$170,000.00	
Extend Box Culverts - Box 6'X7'					
STA 67+00	1	EA	\$200,000.00	\$200,000.00	
Extend Culverts - Double 36" RCP					
EBOFF-LOOP STA 61+75	1	EA	\$100,000.00	\$100,000.00	
Place HMA Dike (Type E)	2110	LF	\$3.00	\$6,330.00	
				Subtotal Drainage	<u>\$476,330.00</u>

<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls (EBON)	4550	SQFT	\$100.00	\$455,000.00	
Noise Barriers				\$0.00	
Metal Beam Guard Rail				\$0.00	
Minor Concrete (curb and gutter)				\$0.00	
Minor Concrete (channelizing island)				\$0.00	
Minor Concrete (sidewalk)				\$0.00	
Equipment/Animal Passes				\$0.00	
Prepare SWPPP	1	LS	\$14,100.00	\$14,100.00	
Temporary Construction BMPs	1	LS	\$352,500.00	\$352,500.00	
Hazardous Waste Mitigation Work				\$0.00	
Environmental Mitigation				\$0.00	
Resident Engineer Office Space	1	LS	\$28,200.00	\$28,200.00	
Water Pollution Control	1	LS	\$70,500.00	\$70,500.00	
				Subtotal Specialty Items	<u>\$920,300.00</u>

<u>Section 5 Traffic Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Lighting	1	LS	\$141,000.00	\$141,000.00	
Pavement Delineation	7500	FT	\$1.00	\$7,500.00	
Pavement Marker (Retroreflective)	300	EA	\$4.00	\$1,200.00	
Traffic Signals	1	LS	\$352,500.00	\$352,500.00	
Overhead Sign Structures		EA		\$0.00	
Roadside Signs	5	EA	\$300.00	\$1,500.00	
Traffic Control System	1	LS	\$141,000.00	\$141,000.00	
Transportation Management Plan	1	LS	\$70,500.00	\$70,500.00	
Portable Changeable Message Signs	1	LS	\$70,500.00	\$70,500.00	
Construction Area Signs	1	LS	\$14,100.00	\$14,100.00	
Temporary Railing (Type K)	2000	FT	\$30.00	\$60,000.00	
Temporary Traffic Screen	2000	FT	\$8.00	\$16,000.00	
CHP Enhanced Enforcement	1	LS	\$70,500.00	\$70,500.00	
				Subtotal Traffic Items	<u>\$946,300.00</u>

## II. ROADSIDE ITEMS

<u>Section 6 Planting and Irrigation</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Highway Planting/Irrigation	1	LS	\$141,000.00	\$141,000.00	
Replacement Planting				\$0.00	
Irrigation Modification				\$0.00	
Relocate Existing Irrigation Facilities				\$0.00	
Irrigation Crossovers				\$0.00	
				Subtotal Planting and Irrigation Section	<u>\$141,000.00</u>

Section 7 Roadside Management and Safety

<u>Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments				\$0.00	
Minor Concrete (Textured Paving)					
Gore Area Pavement	22	CY	\$800.00	\$17,600.00	
Pavement beyond the gore area				\$0.00	
Miscellaneous Paving				\$0.00	
Erosion Control	1	LS	\$16,920.00	\$16,920.00	
Slope Protection				\$0.00	
Side Slopes/Embankment Slopes	1	LS	\$16,920.00	\$16,920.00	
Maintenance Vehicle Pull outs				\$0.00	
Off-Freeway Access (gates, stairways, etc.)				\$0.00	
Roadside Facilities (Vista Points, Transit, Park and Ride, etc.)				\$0.00	
Relocating roadside facilities/features					
Subtotal Roadside Management and Safety Section					<u>\$51,440.00</u>

Section 8 Minor Items

\$3,620,760.00	x 10% =		
(Subtotal Sections 1 thru 7)			
TOTAL MINOR ITEMS			\$362,076.00

Section 9 Roadway Mobilization

\$3,982,836.00	x 10% =		
(Subtotal Sections 1 thru 8)			
TOTAL ROADWAY MOBILIZATION			\$398,283.60

Section 10 Roadway Additions

Supplemental Work	\$3,982,836.00	x 10%=	\$398,283.60
(Subtotal Sections 1 thru 8)			
Contingencies	\$3,982,836.00	x 25% =	\$995,709.00
(Subtotal Sections 1 thru 6)			
TOTAL ROADWAY ADDITIONS			\$1,393,992.60
TOTAL ROADWAY ITEMS			\$5,775,112.20
(Subtotal Sections 1 thru 10)			

Estimate Prepared By: Krassimir Panayotov, Quincy Eng. Phone # 916-368-9181 Date: Nov-10

Estimate Checked By: Jason Jurens, Quincy Eng. Phone # 916-368-9181 Date: Nov-10

III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)	
Bridge Name				
Structure Type				
Width (out to out) - (ft)				
Span Lengths - (ft)				
Total Area - (ft <sup>2</sup> )				
Footing Type (pile/spread)				
Cost Per ft2				
(including 10% mobilization and 20% contingency)				
Total Cost for Structure				
			SUBTOTAL STRUCTURES ITEMS	\$0.00
			(Sum of Total Cost for Structures)	
Railroad Related Costs				
			SUBTOTAL RAILROAD ITEMS	\$0.00
			TOTAL STRUCTURES ITEMS	\$0.00
			(Sum of Structures Items plus Railroad Items)	

COMMENTS:

Estimate Prepared By:

Phone #

Date:

NOTE: If appropriate, attach additional pages and backup.

IV. RIGHT OF WAY ITEMS	ESCALATED VALUE
A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill	\$0.00
B. Mitigation acquisition & credits	
C. Project Development Permit Fees	\$0.00
D. Utility Relocation (State Share)	\$0.00
E. Relocation Assistance	\$0.00
F. Clearance/Demolition	\$0.00
G. Title and Escrow Fees	\$0.00
<b>TOTAL RIGHT OF WAY ITEMS</b>	<b>\$0.00</b>

Anticipated Date of Right of Way Certification  
(Date to which Values are Escalated)

F. Construction Contract Work	\$0.00
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Brief Description of Work:

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Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

**COMMENTS:**

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By:

Phone #

Date:

NOTE: If appropriate, attach additional pages and backup.

## ***DRAFT Planning Cost Estimate***

**PROJECT DESCRIPTION:** El Dorado Rd Interchange Reconstruction

**Limits:** On US-50 at PM 14.01

**Proposed Improvement:** Widening of El Dorado Rd overcrossing and widening of exit ramps and roadway approaches

**Alternative:** Alternative 3 (Alternative for Programming)

### **SUMMARY OF PROJECT COST ESTIMATE**

TOTAL ROADWAY ITEMS		<b>\$8,200,000</b>
TOTAL STRUCTURE ITEMS		<b>\$2,280,000</b>
	SUBTOTAL CONSTRUCTION COSTS	<b>\$10,480,000</b>
TOTAL RIGHT OF WAY ITEMS		<b>\$440,000</b>
CAPITAL SUPPORT		
	PR/ED (PD,PE,PM) 10%	<b>\$1,048,000</b>
	PS&E (PS) 20%	<b>\$2,096,000</b>
	CONSTRUCTION (CM) 15%	<b>\$1,572,000</b>
	SUBTOTAL CAPITAL SUPPORT	<b>\$4,716,000</b>
	TOTAL PROJECT CAPITAL OUTLAY COSTS	<b>\$15,636,000</b>

I. ROADWAY ITEMS

<u>Section 1 Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	9,810	CY	\$30.00	\$294,300.00	
Roadway Excavation (Runnymede Dr. Alignment)	47,088	CY	\$45.00	\$2,118,960.00	
Clearing & Grubbing	1	LS	\$13,162.50	\$13,162.50	
Develop Water Supply	1	LS	\$10,125.00	\$10,125.00	
Construction Staking	1	LS	\$20,250.00	\$20,250.00	
				Subtotal Earthwork	<u>\$2,456,797.50</u>
 <u>Section 2 Pavement Structural Section</u>					
PCC Pavement (___Depth)				\$0.00	
Asphalt Concrete HMA	1,646	TONS	\$110.00	\$181,104.00	
Asphalt Concrete Overlay	1232	TONS	\$100.00	\$123,200.00	
Lean Concrete Base					
Cement-Treated Base					
Aggregate Base (Class 2)	1,491	CY	\$60.00	\$89,467.20	
Treated Permeable Base					
Aggregate Subbase	1,897	CY	\$45.00	\$85,347.00	
Pavement Reinforcing Fabric					
Edge Drains					
Runnymede Drive	1	LS	\$239,962.50	\$239,962.50	
				Subtotal Pavement Structural Section	<u>\$719,080.70</u>
 <u>Section 3 Drainage</u>					
Large Drainage Facilities	43	LF	\$1,000.00	\$42,650.92	
Storm Drains					
Pumping Plants					
Misc Drainage System (D.I.)	1	LS	\$30,375.00	\$30,375.00	
				Subtotal Drainage	<u>\$73,025.92</u>



<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls- El Dorado Road	7,535	SQFT	\$150.00	\$1,130,220.00	
Noise Barriers				\$0.00	
Metal Beam Guard Rail	98	FT	\$50.00	\$4,921.26	
Double Thrie Beam Barrier	164	FT	\$80.00	\$13,123.36	
Minor Concrete (curb and gutter)	492	FT	\$25.00	\$12,303.15	
Minor Concrete (channelizing island)					
Minor Concrete (sidewalk)	239	SQYD	\$60.00	\$14,351.88	
AC Dike	4,921	Ft		\$0.00	
Erosion Control	1	LS	\$20,250.00	\$20,250.00	
Environmental Mitigation	1				
Resident Engineer Office Space					
					Subtotal Specialty Items
					<u>\$1,195,169.65</u>
<u>Section 5 Traffic Items</u>					
Lighting	1	LS	\$20,250.00	\$20,250.00	
Permanent Signing & Striping	1	LS	\$20,250.00	\$20,250.00	
Traffic Signals	2	EA	\$250,000.00	\$500,000.00	
Traffic control Systems	1	LS	\$50,625.00	\$50,625.00	
Transportation Management Plan	1	LS	\$101,250.00	\$101,250.00	
Portable Changeable Message Signs					
Construction Area Signs					
Temporary Railing (Type K)					
Temporary Traffic Screen					
CHP Enhanced Enforcement					
					Subtotal Traffic Items
					<u>\$692,375.00</u>

Section 6 Minor Items

\$5,136,448.77 x 10% =  
(Subtotal Sections 1 thru 6) \$513,644.88

TOTAL MINOR ITEMS

Section 7 Roadway Mobilization

\$5,650,093.65 x 10% =  
(Subtotal Sections 1 thru 6) \$565,009.36

TOTAL ROADWAY MOBILIZATION

Section 8 Roadway Additions

Supplemental Work

\$5,650,093.65 x 10% = \$565,009.36  
(Subtotal Sections 1 thru 6)

Contingencies

\$5,650,093.65 x 25% = \$1,412,523.41  
(Subtotal Sections 1 thru 6)

TOTAL ROADWAY ADDITIONS \$1,977,532.78

TOTAL ROADWAY ITEMS \$8,192,635.79  
(Subtotal Sections 1 thru 8)

Estimate Prepared By: Matt Brogan

Phone # 916.784.3900

Date: 8/14/00

III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)
Bridge Name	El Dorado Rd		
Structure Type	Overcrossing (Widening)		
Width (out to out) - (ft)	PC/PS "I" Girder		
Span Lengths - (ft)	34		
Total Area - (ft <sup>2</sup> )	208		
	6,989		
	Piles @		
Footing Type (pile/spread)	Abutments/ Spread		
Cost Per ft2	Footing@Bent		
	\$325.00		
(including 10% mobilization and 25% contingency)			
Total Cost for Structure	\$2,271,558.62		\$2,271,558.62
		SUBTOTAL STRUCTURES ITEMS (Sum of Total Cost for Structures)	
Railroad Related Costs			\$0.00
		SUBTOTAL RAILROAD ITEMS	
			\$2,271,558.62
		TOTAL STRUCTURES ITEMS (Sum of Structures Items plus Railroad Items)	

COMMENTS:

Estimate Prepared By: Walt LaFranchi

Phone # 916.784.3900

Date: 3/24/00

NOTE: If appropriate, attach additional pages and backup.

IV. RIGHT OF WAY ITEMS

ESCALATED VALUE

A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill

\$353,197.56

B. Mitigation acquisition & credits

\$0.00

C. Project Development Permit Fees

\$59,913.95

D. Utility Relocation (State Share)

\$0.00

E. Relocation Assistance

\$0.00

F. Clearance/Demolition

\$23,965.58

G. Title and Escrow Fees

**TOTAL RIGHT OF WAY ITEMS**

**\$437,000.00**

Anticipated Date of Right of Way Certification  
(Date to which Values are Escalated)

\$0.00

F. Construction Contract Work

Brief Description of Work:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

COMMENTS:

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By:

Phone #

Date:

NOTE: If appropriate, attach additional pages and backup.

## ***DRAFT Planning Cost Estimate***

**PROJECT DESCRIPTION:** US-50 / Ponderosa Road Interchange Improvements PSR/PR

**Limits:** On US-50 at the Shingle Springs Road interchange; PM 8.3 to 8.7

**Proposed Improvement:** The Project proposes operational and capacity improvements to the existing interchange consisting of ramp re-alignments, ramp widening and metering, bridge widening, retaining walls, and drainage modifications. Also proposed local road realignments of North Shingle Road and Durock Road.

Alternative 1

### **SUMMARY OF PROJECT COST ESTIMATE**

TOTAL ROADWAY ITEMS		<b>\$19,440,000</b>
TOTAL STRUCTURE ITEMS		<b>\$3,447,000</b>
	SUBTOTAL CONSTRUCTION COSTS	<b>\$22,887,000</b>
TOTAL RIGHT OF WAY ITEMS		<b>\$6,230,000</b>
CAPITAL SUPPORT		
	PR/ED (PD,PE,PM) 10%	\$2,288,700
	PS&E (PS) 20%	\$4,577,400
	CONSTRUCTION (CM) 15%	\$3,433,050
	SUBTOTAL CAPITAL SUPPORT	\$10,299,150
	SUBTOTAL CAPITAL SUPPORT (Rounded)	<b>\$10,300,000</b>
	TOTAL PROJECT CAPITAL OUTLAY COSTS	<b>\$39,417,000</b>

I. ROADWAY ITEMS

<u>Section 1 Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation (Mass Fill)	49,900	CY	\$30.00	\$1,497,000.00	
Roadway Excavation (Mass Cut)	37,500	CY	\$30.00	\$1,125,000.00	
Imported Borrow	12,500	CY	\$45.00	\$562,500.00	
Clearing & Grubbing	1	LS	\$138,100.00	\$138,100.00	
Develop Water Supply	1	LS	\$27,620.00	\$27,620.00	
				Subtotal Earthwork	<u>\$3,350,220.00</u>
 <u>Section 2 Pavement Structural Section</u>					
PCC Pavement (___Depth)				\$0.00	
Asphalt Concrete HMA	28,775	TONS	\$110.00	\$3,165,250.00	
Asphalt Concrete RHMA-O				\$0.00	
Lean Concrete Base				\$0.00	
Cement-Treated Base				\$0.00	
Aggregate Base	25,990	CY	\$60.00	\$1,559,400.00	
Treated Permeable Base				\$0.00	
Aggregate Subbase				\$0.00	
Pavement Reinforcing Fabric				\$0.00	
Edge Drains				\$0.00	
AC Cold Planing	44,740	SQFT	\$1.00	\$44,740.00	
				\$0.00	
				Subtotal Pavement Structural Section	<u>\$4,769,390.00</u>
 <u>Section 3 Drainage</u>					
Large Drainage Facilities				\$0.00	
Storm Drains	1	LS	\$276,200.00	\$276,200.00	
Pumping Plants				\$0.00	
Project Drainage	1	LS	\$69,050.00	\$69,050.00	
				Subtotal Drainage	<u>\$345,250.00</u>

<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls	1	LS	\$483,350.00	\$483,350.00	
Noise Barriers				\$0.00	
Metal Beam Guard Rail	1500	LF	\$60.00	\$90,000.00	
Minor Concrete (curb and sidewalk)	1780	CY	\$300.00	\$534,000.00	
Minor Concrete (channelizing island)				\$0.00	
Gore Paving	1	LS	\$124,290.00	\$124,290.00	
Erosion Control	1	LS	\$41,430.00	\$41,430.00	
Sope Protection	1	LS	\$27,620.00	\$27,620.00	
Temporary Construction BMPs				\$0.00	
Hazardous Waste Mitigation Work				\$0.00	
Environmental Mitigation				\$0.00	
Resident Engineer Office Space	1	LS	\$69,050.00	\$69,050.00	
Water Pollution Control	1	LS	\$441,920.00	\$441,920.00	
			Subtotal Specialty Items		<u>\$1,811,660.00</u>
<u>Section 5 Traffic Items</u>					
Lighting	1	LS	\$207,150.00	\$207,150.00	
Pavement Delineation				\$0.00	
Pavement Marker (Retroreflective)				\$0.00	
Traffic Signals	4	EA	\$170,000.00	\$680,000.00	
Overhead Signs (mast arm mounted)	4	EA	\$95,000.00	\$380,000.00	
Overhead Sign (structure mounted)	2	EA	\$20,000.00	\$40,000.00	
Roadside Signs				\$0.00	
Traffic Control	300	DAY	\$5,068.00	\$1,520,400.00	
*Includes Traffic Control Systems, Traffic Deliniation Items, and Transportation Management Plan					
Transportation Management Plan		LS		\$0.00	
Portable Changeable Message Signs		LS		\$0.00	
Construction Area Signs	1	LS	\$13,810.00	\$13,810.00	
Temporary Railing (Type K)		FT		\$0.00	
Temporary Traffic Screen		FT		\$0.00	
CHP Enhanced Enforcement		LS		\$0.00	
Signing and Striping	1	LS	\$207,150.00	\$207,150.00	
			Subtotal Traffic Items		<u>\$3,048,510.00</u>

Section 6 Minor Items

\$13,325,030.00 x 10% =  
(Subtotal Sections 1 thru 5)

TOTAL MINOR ITEMS \$1,332,503.00

Section 9 Roadway Mobilization

\$14,657,533.00 x 10% =  
(Subtotal Sections 1 thru 6)

TOTAL ROADWAY MOBILIZATION \$1,465,753.30

Section 10 Roadway Additions

Supplemental Work

\$14,657,533.00 x 10% =  
(Subtotal Sections 1 thru 6)

\$1,465,753.30

Contingencies

\$14,657,533.00 x 25% =  
(Subtotal Sections 1 thru 6)

\$3,664,383.25

TOTAL ROADWAY ADDITIONS \$5,130,136.55

TOTAL ROADWAY ITEMS \$19,441,762.85  
(Subtotal Sections 1 thru 10)

Estimate Prepared By: Jeff Binning, PE

Phone # (916) 677-2014

Date: 7/14/2009

Estimate Checked By:

Phone #

Date:



III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)
Bridge Name	Shingle Springs		
Structure Type	Road OC		
Width (out to out) - (ft)	CIP/PS BOX		
Span Lengths - (ft)	20.17' R, 29.17' L		
Total Area - (ft <sup>2</sup> )	232.83		
Footing Type (pile/spread)	11488		
Cost Per ft2	\$300		
(including 10% mobilization and 20% contingency)			
Total Cost for Structure	\$3,446,400.00		
		SUBTOTAL STRUCTURES ITEMS	\$3,446,400.00
		(Sum of Total Cost for Structures)	
Railroad Related Costs			
		SUBTOTAL RAILROAD ITEMS	\$0.00
		TOTAL STRUCTURES ITEMS	\$3,446,400.00
		TOTAL STRUCTURES ITEMS (Rounded)	\$3,447,000.00
		(Sum of Structures Items plus Railroad Items)	

COMMENTS:

Estimate Prepared By: Kent Cordtz, PE

Phone # (916) 677-1665

Date: 7/14/2009

NOTE: If appropriate, attach additional pages and backup.

IV. RIGHT OF WAY ITEMS

ESCALATED VALUE

A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill	\$4,658,416.76
B. Mitigation acquisition & credits	\$0.00
C. Project Development Permit Fees	\$0.00
D. Utility Relocation (State Share)	\$980,196.71
E. Relocation Assistance	\$219,870.46
F. Clearance/Demolition	\$43,974.09
G. Title and Escrow Fees	\$56,740.76
H. SB 1210 Costs & Project Permit Fees	\$269,518.63

**TOTAL RIGHT OF WAY ITEMS      \$6,229,000.00**

Anticipated Date of Right of Way Certification      **2012**  
(Date to which Values are Escalated)

F. Construction Contract Work	\$0.00
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Brief Description of Work:

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Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

COMMENTS:

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By: Michael Lahodny

Phone # (916) 978-4900

Date: 7/14/2009

NOTE: If appropriate, attach additional pages and backup.

## ***DRAFT Planning Cost Estimate***

**PROJECT DESCRIPTION:** Bass Lake Road/Hwy 50 Interchange Improvements

**Limits:** On US-50 at PM 3.24

**Proposed Improvement:** The Project proposes operational and capacity improvements to the existing interchange consisting of ramp widening and metering, retaining walls, and drainage modifications.

### **SUMMARY OF PROJECT COST ESTIMATE**

TOTAL ROADWAY ITEMS		<b>\$4,050,000</b>
TOTAL STRUCTURE ITEMS		<b>\$0</b>
	SUBTOTAL CONSTRUCTION COSTS	<b>\$4,050,000</b>
TOTAL RIGHT OF WAY ITEMS		<b>\$0</b>
CAPITAL SUPPORT		
	PR/ED (PD,PE,PM) 10%	<b>\$405,000</b>
	PS&E (PS) 20%	<b>\$810,000</b>
	CONSTRUCTION (CM) 15%	<b>\$607,500</b>
	SUBTOTAL CAPITAL SUPPORT	<b>\$1,822,500</b>
	TOTAL PROJECT CAPITAL OUTLAY COSTS	<b>\$5,872,500</b>

I. ROADWAY ITEMS

<u>Section 1 Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	2,900	CY	\$30.00	\$87,000.00	
Imported Borrow	12,500	CY	\$45.00	\$562,500.00	
Clearing & Grubbing	1	LS	\$40,000.00	\$40,000.00	
Develop Water Supply	1	LS	\$20,000.00	\$20,000.00	
				\$0.00	
				\$0.00	
				Subtotal Earthwork	<u>\$709,500.00</u>

Section 2 Pavement Structural Section

PCC Pavement (___Depth)				\$0.00	
Asphalt Concrete HMA	800	TONS	\$110.00	\$88,000.00	
Asphalt Concrete RHMA-O	120	TONS	\$120.00	\$14,400.00	
Lean Concrete Base				\$0.00	
Cement-Treated Base				\$0.00	
Aggregate Base	1,110	CY	\$60.00	\$66,600.00	
Treated Permeable Base				\$0.00	
Aggregate Subbase				\$0.00	
Pavement Reinforcing Fabric				\$0.00	
Slurry Seal				\$0.00	
AC Cold Planing				\$0.00	
				\$0.00	
				Subtotal Pavement Structural Section	<u>\$169,000.00</u>

Section 3 Drainage

Large Drainage Facilities				\$0.00	
Storm Drains				\$0.00	
Pumping Plants				\$0.00	
Project Drainage	1	LS	\$140,000.00	\$140,000.00	
Place HMA Dike (Type E)				\$0.00	
				Subtotal Drainage	<u>\$140,000.00</u>

<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls	1500	SQFT	\$150.00	\$225,000.00	
Noise Barriers				\$0.00	
Metal Beam Guard Rail	130	LF	\$60.00	\$7,800.00	
Minor Concrete (channelizing island)				\$0.00	
Minor Concrete (curb and gutter)	50	CY	\$300.00	\$15,000.00	
Equipment/Animal Passes				\$0.00	
Prepare SWPPP	1	LS	\$15,000.00	\$15,000.00	
Temporary Construction BMPs	1	LS	\$150,000.00	\$150,000.00	
Hazardous Waste Mitigation Work				\$0.00	
Environmental Mitigation				\$0.00	
Resident Engineer Office Space	1	LS	\$30,000.00	\$30,000.00	
Water Pollution Control	1	LS	\$60,000.00	\$60,000.00	
				Subtotal Specialty Items	<u>\$502,800.00</u>

<u>Section 5 Traffic Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Lighting	1	LS	\$80,000.00	\$80,000.00	
Traffic Signals	2	EA	\$250,000.00	\$500,000.00	
Overhead Sign Structures	0	EA		\$0.00	
Traffic Control System	1	LS	\$100,000.00	\$100,000.00	
Transportation Management Plan	1	LS	\$40,000.00	\$40,000.00	
Portable Changeable Message Signs	1	LS	\$45,000.00	\$45,000.00	
Construction Area Signs	1	LS	\$10,000.00	\$10,000.00	
Temporary Railing (Type K)	1000	FT	\$30.00	\$30,000.00	
Temporary Traffic Screen	1000	FT	\$8.00	\$8,000.00	
CHP Enhanced Enforcement	1	LS	\$50,000.00	\$50,000.00	
Ramp Metering	1	LS	\$55,000.00	\$55,000.00	
Signing and Striping	1	LS	\$12,000.00	\$12,000.00	
				Subtotal Traffic Items	<u>\$930,000.00</u>

## II. ROADSIDE ITEMS

<u>Section 6 Planting and Irrigation</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Highway Planting/Irrigation	1	LS	\$50,000.00	\$50,000.00	
Replacement Planting				\$0.00	
Irrigation Modification				\$0.00	
Relocate Existing Irrigation Facilities				\$0.00	
Irrigation Crossovers				\$0.00	
				Subtotal Planting and Irrigation Section	<u>\$50,000.00</u>

Section 7 Roadside Management and Safety

<u>Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments				\$0.00	
Minor Concrete (Textured Paving)					
Gore Area Pavement	15	CY	\$800.00	\$12,000.00	
Pavement beyond the gore area				\$0.00	
Miscellaneous Paving				\$0.00	
Erosion Control	1	LS	\$15,000.00	\$15,000.00	
Slope Protection				\$0.00	
Side Slopes/Embankment Slopes	1	LS	\$10,000.00	\$10,000.00	
Maintenance Vehicle Pull outs				\$0.00	
Off-Freeway Access (gates, stairways, etc.)				\$0.00	
Roadside Facilities (Vista Points, Transit, Park and Ride, etc.)				\$0.00	
Relocating roadside facilities/features					
Subtotal Roadside Management and Safety Section					<u>\$37,000.00</u>

Section 8 Minor Items

\$2,538,300.00	x 10% =		
(Subtotal Sections 1 thru 7)			
TOTAL MINOR ITEMS			\$253,830.00

Section 9 Roadway Mobilization

\$2,792,130.00	x 10% =		
(Subtotal Sections 1 thru 8)			
TOTAL ROADWAY MOBILIZATION			\$279,213.00

Section 10 Roadway Additions

Supplemental Work	\$2,792,130.00	x 10%=	\$279,213.00
	(Subtotal Sections 1 thru 8)		
Contingencies	\$2,792,130.00	x 25% =	\$698,032.50
	(Subtotal Sections 1 thru 6)		
TOTAL ROADWAY ADDITIONS			\$977,245.50
TOTAL ROADWAY ITEMS			\$4,048,588.50
(Subtotal Sections 1 thru 10)			

Estimate Prepared By: \_\_\_\_\_ Phone # \_\_\_\_\_ Date: 7/21/2015

Estimate Checked By: \_\_\_\_\_ Phone # \_\_\_\_\_ Date: \_\_\_\_\_

III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)	
Bridge Name				
Structure Type				
Width (out to out) - (ft)				
Span Lengths - (ft)				
Total Area - (ft <sup>2</sup> )				
Footing Type (pile/spread)				
Cost Per ft2				
(including 10% mobilization and 20% contingency)				
Total Cost for Structure				
				SUBTOTAL STRUCTURES ITEMS
				(Sum of Total Cost for Structures)
				\$0.00
Railroad Related Costs				
				SUBTOTAL RAILROAD ITEMS
				\$0.00
				TOTAL STRUCTURES ITEMS
				(Sum of Structures Items plus Railroad Items)
				\$0.00

COMMENTS:

Estimate Prepared By: \_\_\_\_\_ Phone # \_\_\_\_\_ Date: Jul-15

NOTE: If appropriate, attach additional pages and backup.

IV. RIGHT OF WAY ITEMS	ESCALATED VALUE
A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill	\$0.00
B. Mitigation acquisition & credits	\$0.00
C. Project Development Permit Fees	\$0.00
D. Utility Relocation (State Share)	\$0.00
E. Relocation Assistance	\$0.00
F. Clearance/Demolition	\$0.00
G. Title and Escrow Fees	\$0.00
H. SB 1210 Costs & Project Permit Fees	\$0.00
<b>TOTAL RIGHT OF WAY ITEMS</b>	<b>\$0.00</b>

Anticipated Date of Right of Way Certification        -  
(Date to which Values are Escalated)

F. Construction Contract Work	\$0.00
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Brief Description of Work:

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Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

**COMMENTS:**

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By:

Phone #

Date:



## ***DRAFT Planning Cost Estimate***

**PROJECT DESCRIPTION:** Cambridge Road/Hwy 50 Interchange Improvements - Phase 1

**Limits:** On US-50 at PM 4.96

**Proposed Improvement:** Phase I project consists of widening the existing EB and WB off-ramps; addition of new WB on-ramp from SB Cambridge Road; reconstruction of the local intersections to provide for additional capacity, both turning and through; and the installation of traffic signals at the EB ramp terminal intersection. Also includes preliminary engineering for Phase 2 improvements to Cambridge Interchange (GP149).

### **SUMMARY OF PROJECT COST ESTIMATE**

TOTAL ROADWAY ITEMS		<b>\$5,940,000</b>
TOTAL STRUCTURE ITEMS		<b>\$0</b>
	SUBTOTAL CONSTRUCTION COSTS	<b>\$5,940,000</b>
TOTAL RIGHT OF WAY ITEMS		<b>\$0</b>
	CAPITAL SUPPORT	
	PR/ED (PD,PE,PM) 10%	<b>\$594,000</b>
	PS&E (PS) 20%	<b>\$1,188,000</b>
	CONSTRUCTION (CM) 15%	<b>\$891,000</b>
	SUBTOTAL CAPITAL SUPPORT	<b>\$2,673,000</b>
	TOTAL PROJECT CAPITAL OUTLAY COSTS	<b>\$8,613,000</b>

I. ROADWAY ITEMS

<u>Section 1 Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	15,000	CY	\$30.00	\$450,000.00	
Imported Borrow		CY	\$45.00	\$0.00	
Clearing & Grubbing	1	LS	\$40,000.00	\$40,000.00	
Develop Water Supply	1	LS	\$20,000.00	\$20,000.00	
				Subtotal Earthwork	<u>\$510,000.00</u>
 <u>Section 2 Pavement Structural Section</u>					
PCC Pavement (___Depth)				\$0.00	
Asphalt Concrete HMA	4,180	TONS	\$110.00	\$459,800.00	
Asphalt Concrete RHMA-O	620	TONS	\$120.00	\$74,400.00	
Lean Concrete Base				\$0.00	
Cement-Treated Base				\$0.00	
Aggregate Base	5,820	CY	\$60.00	\$349,200.00	
Treated Permeable Base				\$0.00	
Aggregate Subbase				\$0.00	
Pavement Reinforcing Fabric				\$0.00	
Slurry Seal				\$0.00	
AC Cold Planing				\$0.00	
				Subtotal Pavement Structural Section	<u>\$883,400.00</u>
 <u>Section 3 Drainage</u>					
Large Drainage Facilities				\$0.00	
Storm Drains				\$0.00	
Pumping Plants				\$0.00	
Project Drainage	1	LS	\$210,000.00	\$210,000.00	
Place HMA Dike (Type E)				\$0.00	
				Subtotal Drainage	<u>\$210,000.00</u>

<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls				\$0.00	
Noise Barriers				\$0.00	
Metal Beam Guard Rail	900	LF	\$30.00	\$27,000.00	
Minor Concrete (channelizing island)				\$0.00	
Minor Concrete (curb and gutter)				\$0.00	
Equipment/Animal Passes				\$0.00	
Prepare SWPPP	1	LS	\$15,000.00	\$15,000.00	
Temporary Construction BMPs	1	LS	\$250,000.00	\$250,000.00	
Hazardous Waste Mitigation Work				\$0.00	
Environmental Mitigation				\$0.00	
Resident Engineer Office Space	1	LS	\$30,000.00	\$30,000.00	
Water Pollution Control	1	LS	\$75,000.00	\$75,000.00	
				Subtotal Specialty Items	<u>\$397,000.00</u>

<u>Section 5 Traffic Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Lighting	1	LS	\$120,000.00	\$120,000.00	
Traffic Signals	4	EA	\$250,000.00	\$1,000,000.00	
Overhead Sign Structures	0	EA		\$0.00	
Traffic Control System	1	LS	\$150,000.00	\$150,000.00	
Transportation Management Plan	1	LS	\$70,000.00	\$70,000.00	
Portable Changeable Message Signs	1	LS	\$70,000.00	\$70,000.00	
Construction Area Signs	1	LS	\$15,000.00	\$15,000.00	
Temporary Railing (Type K)	1500	FT	\$30.00	\$45,000.00	
Temporary Traffic Screen	1500	FT	\$8.00	\$12,000.00	
CHP Enhanced Enforcement	1	LS	\$70,000.00	\$70,000.00	
Ramp Metering		LS		\$0.00	
Signing and Striping	1	LS	\$15,000.00	\$15,000.00	
				Subtotal Traffic Items	<u>\$1,567,000.00</u>

## II. ROADSIDE ITEMS

<u>Section 6 Planting and Irrigation</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Highway Planting/Irrigation	1	LS	\$60,000.00	\$60,000.00	
Replacement Planting				\$0.00	
Irrigation Modification				\$0.00	
Relocate Existing Irrigation Facilities				\$0.00	
Irrigation Crossovers				\$0.00	
				Subtotal Planting and Irrigation Section	<u>\$60,000.00</u>

Section 7 Roadside Management and Safety

<u>Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments				\$0.00	
Minor Concrete (Textured Paving)					
Gore Area Pavement	32	CY	\$800.00	\$25,600.00	
Pavement beyond the gore area				\$0.00	
Miscellaneous Paving				\$0.00	
Erosion Control	1	LS	\$30,000.00	\$30,000.00	
Slope Protection	1	LS	\$25,000.00	\$25,000.00	
Side Slopes/Embankment Slopes				\$0.00	
Maintenance Vehicle Pull outs	1	LS	\$15,000.00	\$15,000.00	
Off-Freeway Access (gates, stairways, etc.)				\$0.00	
Roadside Facilities (Vista Points, Transit, Park and Ride, etc.)				\$0.00	
Relocating roadside facilities/features					
Subtotal Roadside Management and Safety Section					<u>\$95,600.00</u>

Section 8 Minor Items

\$3,723,000.00	x 10% =	
(Subtotal Sections 1 thru 7)		
TOTAL MINOR ITEMS		\$372,300.00

Section 9 Roadway Mobilization

\$4,095,300.00	x 10% =	
(Subtotal Sections 1 thru 8)		
TOTAL ROADWAY MOBILIZATION		\$409,530.00

Section 10 Roadway Additions

Supplemental Work	\$4,095,300.00	x 10%=	\$409,530.00
	(Subtotal Sections 1 thru 8)		
Contingencies	\$4,095,300.00	x 25% =	\$1,023,825.00
	(Subtotal Sections 1 thru 6)		
TOTAL ROADWAY ADDITIONS			\$1,433,355.00
TOTAL ROADWAY ITEMS (Subtotal Sections 1 thru 10)			\$5,938,185.00

Estimate Prepared By: \_\_\_\_\_ Phone # \_\_\_\_\_ Date: 7/21/2015

Estimate Checked By: \_\_\_\_\_ Phone # \_\_\_\_\_ Date: \_\_\_\_\_

III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)	
Bridge Name				
Structure Type				
Width (out to out) - (ft)				
Span Lengths - (ft)				
Total Area - (ft <sup>2</sup> )				
Footing Type (pile/spread)				
Cost Per ft2				
(including 10% mobilization and 20% contingency)				
Total Cost for Structure				
				SUBTOTAL STRUCTURES ITEMS
				(Sum of Total Cost for Structures)      \$0.00
Railroad Related Costs				
				SUBTOTAL RAILROAD ITEMS      \$0.00
				TOTAL STRUCTURES ITEMS      \$0.00
				(Sum of Structures Items plus Railroad Items)

COMMENTS:

Estimate Prepared By: \_\_\_\_\_ Phone # \_\_\_\_\_ Date: Jul-15

NOTE: If appropriate, attach additional pages and backup.

IV. RIGHT OF WAY ITEMS	ESCALATED VALUE
A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill	\$0.00
B. Mitigation acquisition & credits	\$0.00
C. Project Development Permit Fees	\$0.00
D. Utility Relocation (State Share)	\$0.00
E. Relocation Assistance	\$0.00
F. Clearance/Demolition	\$0.00
G. Title and Escrow Fees	\$0.00
H. SB 1210 Costs & Project Permit Fees	\$0.00
<b>TOTAL RIGHT OF WAY ITEMS</b>	<b>\$0.00</b>

Anticipated Date of Right of Way Certification        -  
(Date to which Values are Escalated)

F. Construction Contract Work	\$0.00
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Brief Description of Work:

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Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

**COMMENTS:**

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By:

Phone #

Date:

## ***DRAFT Planning Cost Estimate***

**PROJECT DESCRIPTION:** Silva Valley Pkwy/Hwy 50 Interchange Improvements - PHASE 2

**Limits:** On US-50 at PM 1.65

**Proposed Improvement:** The Project proposes operational and capacity improvements to the existing interchange consisting of adding a westbound loop on-ramp, and adding a lane to the mainline in the westbound direction to the westbound off-ramp gore at El Dorado Hills Blvd IC

### **SUMMARY OF PROJECT COST ESTIMATE**

TOTAL ROADWAY ITEMS		<b>\$3,840,000</b>
TOTAL STRUCTURE ITEMS		<b>\$1,441,000</b>
	SUBTOTAL CONSTRUCTION COSTS	<b>\$5,281,000</b>
TOTAL RIGHT OF WAY ITEMS		<b>\$0</b>
CAPITAL SUPPORT		
	PR/ED (PD,PE,PM)	10% \$528,100
	PS&E (PS)	20% \$1,056,200
	CONSTRUCTION (CM)	15% \$792,150
	SUBTOTAL CAPITAL SUPPORT	\$2,376,450
	SUBTOTAL CAPITAL SUPPORT (Rounded)	<b>\$2,377,000</b>
	TOTAL PROJECT CAPITAL OUTLAY COSTS	<b>\$7,658,000</b>

I. ROADWAY ITEMS

<u>Section 1 Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	19,900	CY	\$30.00	\$597,000.00	
Imported Borrow	8,000	CY	\$45.00	\$360,000.00	
Clearing & Grubbing	1	LS	\$70,500.00	\$70,500.00	
Develop Water Supply	1	LS	\$70,500.00	\$70,500.00	
				\$0.00	
				\$0.00	
				Subtotal Earthwork	<u>\$1,098,000.00</u>

Section 2 Pavement Structural Section

PCC Pavement (___Depth)				\$0.00	
Asphalt Concrete HMA	5,550	TONS	\$110.00	\$610,500.00	
Asphalt Concrete RHMA-O	830	TONS	\$120.00	\$99,600.00	
Lean Concrete Base				\$0.00	
Cement-Treated Base				\$0.00	
Aggregate Base	7,720	CY	\$60.00	\$463,200.00	
Treated Permeable Base				\$0.00	
Aggregate Subbase				\$0.00	
Pavement Reinforcing Fabric				\$0.00	
Slurry Seal				\$0.00	
AC Cold Planing				\$0.00	
				\$0.00	
				Subtotal Pavement Structural Section	<u>\$1,173,300.00</u>

Section 3 Drainage

Large Drainage Facilities				\$0.00	
Storm Drains				\$0.00	
Pumping Plants				\$0.00	
Project Drainage	1	LS	\$350,000.00	\$350,000.00	
Place HMA Dike (Type E)				\$0.00	
				Subtotal Drainage	<u>\$350,000.00</u>



<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls		SQFT		\$0.00	
Noise Barriers				\$0.00	
Metal Beam Guard Rail	65	LF	\$60.00	\$3,900.00	
Minor Concrete (channelizing island)				\$0.00	
Minor Concrete (curb and gutter)	0	FT		\$0.00	
Equipment/Animal Passes				\$0.00	
Prepare SWPPP	1	LS	\$14,100.00	\$14,100.00	
Temporary Construction BMPs				\$0.00	
Hazardous Waste Mitigation Work				\$0.00	
Environmental Mitigation				\$0.00	
Resident Engineer Office Space	1	LS	\$70,500.00	\$70,500.00	
Water Pollution Control	1	LS	\$423,000.00	\$423,000.00	
				Subtotal Specialty Items	<u>\$511,500.00</u>

<u>Section 5 Traffic Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Lighting	1	LS	\$10,000.00	\$10,000.00	
Pavement Delineation	11000	FT	\$1.00	\$11,000.00	
Pavement Marker (Retroreflective)		EA	\$4.00	\$0.00	
Traffic Signals	0	EA		\$0.00	
Overhead Sign Structure	1	EA	\$100,000.00	\$100,000.00	
Roadside Signs	8	EA	\$300.00	\$2,400.00	
Traffic Control System		LS		\$0.00	
Transportation Management Plan	1	LS	\$70,500.00	\$70,500.00	
Portable Changeable Message Signs	1	LS	\$141,000.00	\$141,000.00	
Construction Area Signs	1	LS	\$70,500.00	\$70,500.00	
Temporary Railing (Type K)	3500	FT	\$15.00	\$52,500.00	
Temporary Traffic Screen	3500	FT	\$5.00	\$17,500.00	
CHP Enhanced Enforcement	1	LS	\$141,000.00	\$141,000.00	
				Subtotal Traffic Items	<u>\$616,400.00</u>

## II. ROADSIDE ITEMS

<u>Section 6 Planting and Irrigation</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Highway Planting/Irrigation				\$0.00	
Replacement Planting				\$0.00	
Irrigation Modification				\$0.00	
Relocate Existing Irrigation Facilities				\$0.00	
Irrigation Crossovers				\$0.00	
				Subtotal Planting and Irrigation Section	<u>\$0.00</u>

Section 7 Roadside Management and Safety

<u>Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments				\$0.00	
Minor Concrete (Textured Paving)					
Gore Area Pavement	0	LS	\$15,000.00	\$0.00	
Pavement beyond the gore area				\$0.00	
Miscellaneous Paving				\$0.00	
Erosion Control	5000	SQYD	\$1.00	\$5,000.00	
Slope Protection				\$0.00	
Side Slopes/Embankment Slopes				\$0.00	
Maintenance Vehicle Pull outs				\$0.00	
Off-Freeway Access (gates, stairways, etc.)				\$0.00	
Roadside Facilities (Vista Points, Transit, Park and Ride, etc.)				\$0.00	
Relocating roadside facilities/features					
Subtotal Roadside Management and Safety Section					<u>\$5,000.00</u>

Section 8 Minor Items

\$3,754,200.00	x 10% * =		
(Subtotal Sections 1 thru 7)			
TOTAL MINOR ITEMS			\$375,420.00

Section 9 Roadway Mobilization

\$4,129,620.00	x 10% * =		
(Subtotal Sections 1 thru 8)			
TOTAL ROADWAY MOBILIZATION			\$412,962.00

Section 10 Roadway Additions

Supplemental Work	\$4,129,620.00	x 10% * =	\$412,962.00
	(Subtotal Sections 1 thru 8)		
Contingencies	\$4,129,620.00	x 25% ** =	\$1,032,405.00
	(Subtotal Sections 1 thru 6)		
TOTAL ROADWAY ADDITIONS			\$1,445,367.00
TOTAL ROADWAY ITEMS			\$5,987,949.00
(Subtotal Sections 1 thru 10)			

\* Use 5% - 10%.

\*\*Use 25% at the PSR stage or a higher or lower rate if justified.

Estimate Prepared By:	Phone #	Date:	Jul-15
Estimate Checked By:	Phone #	Date:	

III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)	
Bridge Name				
Structure Type				
Width (out to out) - (ft)				
Span Lengths - (ft)				
Total Area - (ft <sup>2</sup> )				
Footing Type (pile/spread)				
Cost Per ft2				
(including 10% mobilization and 20% contingency)				
Total Cost for Structure				
			SUBTOTAL STRUCTURES ITEMS	\$0.00
			(Sum of Total Cost for Structures)	
Railroad Related Costs				
			SUBTOTAL RAILROAD ITEMS	\$0.00
			TOTAL STRUCTURES ITEMS	\$0.00
			(Sum of Structures Items plus Railroad Items)	

COMMENTS:

Estimate Prepared By:

Phone #

Date:

NOTE: If appropriate, attach additional pages and backup.

IV. RIGHT OF WAY ITEMS	ESCALATED VALUE
A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill	\$0.00
B. Mitigation acquisition & credits	\$0.00
C. Project Development Permit Fees	\$0.00
D. Utility Relocation (State Share)	\$0.00
E. Relocation Assistance	\$0.00
F. Clearance/Demolition	\$0.00
G. Title and Escrow Fees	\$0.00
H. SB 1210 Costs & Project Permit Fees	\$0.00
<b>TOTAL RIGHT OF WAY ITEMS</b>	<b>\$0.00</b>

Anticipated Date of Right of Way Certification        -  
 (Date to which Values are Escalated)

F. Construction Contract Work	\$0.00
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Brief Description of Work:

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Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

**COMMENTS:**

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By:

Phone #

Date:

**TIM Fee Update  
El Dorado County**

**AUXILIARY LANES Summary**

<b>No.</b>	<b>Direction</b>	<b>LIMITS</b>	<b>Cost</b>
1	Eastbound	Bass Lake Rd IC to Cambridge Rd IC	\$ 8,830,500
2	Eastbound	Cambridge Rd IC to Cameron Park Dr IC	\$ 8,743,500
3	Eastbound	Cameron Park Dr IC to Ponderosa Rd IC	\$ 8,381,000
4	Eastbound	Empire Ranch Rd IC (future) to El Dorado Hills Blvd IC	\$ 6,510,500
5	Westbound	Ponderosa Rd IC to Cameron Park Dr IC	\$ 8,961,000
6	Westbound	Cambridge Rd IC to Bass Lake Rd IC	\$ 8,685,500
7	Westbound	Bass Lake Rd IC to Silva Valley Pkwy IC	\$ 5,466,500
8	Westbound	El Dorado Hills Blvd IC to Empire Ranch Rd IC (future)	\$ 5,611,500

## ***DRAFT Planning Cost Estimate***

**PROJECT DESCRIPTION:** Auxiliary Lanes - WB Hwy 50

**Limits:** Bass Lake Rd Interchange to Silva Valley Parkway Interchange

**Proposed Improvement:** The Project proposes operational and capacity improvements to the existing highway

### **SUMMARY OF PROJECT COST ESTIMATE**

TOTAL ROADWAY ITEMS		<b>\$3,770,000</b>
TOTAL STRUCTURE ITEMS		<b>\$0</b>
	SUBTOTAL CONSTRUCTION COSTS	<b>\$3,770,000</b>
TOTAL RIGHT OF WAY ITEMS		<b>\$0</b>
CAPITAL SUPPORT		
	PR/ED (PD,PE,PM) 10%	<b>\$377,000</b>
	PS&E (PS) 20%	<b>\$754,000</b>
	CONSTRUCTION (CM) 15%	<b>\$565,500</b>
	SUBTOTAL CAPITAL SUPPORT	<b>\$1,696,500</b>
	TOTAL PROJECT CAPITAL OUTLAY COSTS	<b>\$5,466,500</b>

I. ROADWAY ITEMS

<u>Section 1 Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	10,100	CY	\$30.00	\$303,000.00	
Imported Borrow	1,000	CY	\$45.00	\$45,000.00	
Clearing & Grubbing	1	LS	\$70,500.00	\$70,500.00	
Develop Water Supply	1	LS	\$70,500.00	\$70,500.00	
				\$0.00	
				\$0.00	
				Subtotal Earthwork	<u>\$489,000.00</u>
 <u>Section 2 Pavement Structural Section</u>					
PCC Pavement (___Depth)				\$0.00	
Asphalt Concrete HMA	2,820	TONS	\$110.00	\$310,200.00	
Asphalt Concrete RHMA-O	420	TONS	\$120.00	\$50,400.00	
Lean Concrete Base				\$0.00	
Cement-Treated Base				\$0.00	
Aggregate Base	3,920	CY	\$60.00	\$235,200.00	
Treated Permeable Base				\$0.00	
Aggregate Subbase				\$0.00	
Pavement Reinforcing Fabric				\$0.00	
Slurry Seal				\$0.00	
AC Cold Planing				\$0.00	
				\$0.00	
				Subtotal Pavement Structural Section	<u>\$595,800.00</u>
 <u>Section 3 Drainage</u>					
Large Drainage Facilities				\$0.00	
Storm Drains				\$0.00	
Pumping Plants				\$0.00	
Project Drainage	1	LS	\$170,000.00	\$170,000.00	
Place HMA Dike (Type E)				\$0.00	
				Subtotal Drainage	<u>\$170,000.00</u>

<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls				\$0.00	
Noise Barriers				\$0.00	
Metal Beam Guard Rail	65	LF	\$60.00	\$3,900.00	
Minor Concrete (channelizing island)				\$0.00	
Minor Concrete (curb and gutter)		CY		\$0.00	
Equipment/Animal Passes				\$0.00	
Prepare SWPPP	1	LS	\$14,100.00	\$14,100.00	
Temporary Construction BMPs		LS		\$0.00	
Hazardous Waste Mitigation Work				\$0.00	
Environmental Mitigation				\$0.00	
Resident Engineer Office Space	1	LS	\$70,500.00	\$70,500.00	
Water Pollution Control	1	LS	\$423,000.00	\$423,000.00	
				Subtotal Specialty Items	<u>\$511,500.00</u>

<u>Section 5 Traffic Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Lighting		LS		\$0.00	
Pavement Delineation	6000	FT	\$1.00	\$6,000.00	
Pavement Marker (Retroreflective)		EA	\$4.00	\$0.00	
Traffic Signals	0	EA		\$0.00	
Overhead Sign Structures	1	EA	\$100,000.00	\$100,000.00	
Roadside Signs	5	EA	\$300.00	\$1,500.00	
Traffic Control System		LS		\$0.00	
Transportation Management Plan	1	LS	\$70,500.00	\$70,500.00	
Portable Changeable Message Signs	1	LS	\$141,000.00	\$141,000.00	
Construction Area Signs	1	LS	\$70,500.00	\$70,500.00	
Temporary Railing (Type K)	3000	LF	\$15.00	\$45,000.00	
Temporary Traffic Screen	3000	FT	\$5.00	\$15,000.00	
CHP Enhanced Enforcement	1	LS	\$141,000.00	\$141,000.00	
				Subtotal Traffic Items	<u>\$590,500.00</u>

## II. ROADSIDE ITEMS

<u>Section 6 Planting and Irrigation</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Highway Planting/Irrigation				\$0.00	
Replacement Planting				\$0.00	
Irrigation Modification				\$0.00	
Relocate Existing Irrigation Facilities				\$0.00	
Irrigation Crossovers				\$0.00	
				Subtotal Planting and Irrigation Section	<u>\$0.00</u>



Section 7 Roadside Management and Safety

<u>Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments		LS		\$0.00	
Minor Concrete (Textured Paving)					
Gore Area Pavement		LS		\$0.00	
Pavement beyond the gore area				\$0.00	
Miscellaneous Paving				\$0.00	
Erosion Control	5500	SQYD	\$1.00	\$5,500.00	
Slope Protection				\$0.00	
Side Slopes/Embankment Slopes				\$0.00	
Maintenance Vehicle Pull outs		LS		\$0.00	
Off-Freeway Access (gates, stairways, etc.)				\$0.00	
Roadside Facilities (Vista Points, Transit, Park and Ride, etc.)				\$0.00	
Relocating roadside facilities/features					
Subtotal Roadside Management and Safety Section					<u>\$5,500.00</u>

Section 8 Minor Items

\$2,362,300.00	x 10% *=		
(Subtotal Sections 1 thru 7)			
TOTAL MINOR ITEMS			\$236,230.00

Section 9 Roadway Mobilization

\$2,598,530.00	x 10% *=		
(Subtotal Sections 1 thru 8)			
TOTAL ROADWAY MOBILIZATION			\$259,853.00

Section 10 Roadway Additions

Supplemental Work	\$2,598,530.00	x 10% *=	\$259,853.00
	(Subtotal Sections 1 thru 8)		
Contingencies	\$2,598,530.00	x 25% **=	\$649,632.50
	(Subtotal Sections 1 thru 6)		
TOTAL ROADWAY ADDITIONS			\$909,485.50
TOTAL ROADWAY ITEMS			\$3,767,868.50
(Subtotal Sections 1 thru 10)			

\* Use 5% - 10%.

\*\*Use 25% at the PSR stage or a higher or lower rate if justified.

Estimate Prepared By:	Phone #	Date:	7/21/2015
Estimate Checked By:	Phone #	Date:	

III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)	
Bridge Name				
Structure Type				
Width (out to out) - (ft)				
Span Lengths - (ft)				
Total Area - (ft <sup>2</sup> )				
Footing Type (pile/spread)				
Cost Per ft2				
(including 10% mobilization and 20% contingency)				
Total Cost for Structure				
			SUBTOTAL STRUCTURES ITEMS	\$0.00
			(Sum of Total Cost for Structures)	
Railroad Related Costs				
			SUBTOTAL RAILROAD ITEMS	\$0.00
			TOTAL STRUCTURES ITEMS	\$0.00
			(Sum of Structures Items plus Railroad Items)	

COMMENTS:

Estimate Prepared By:

Phone #

Date:

NOTE: If appropriate, attach additional pages and backup.

IV. RIGHT OF WAY ITEMS	ESCALATED VALUE
A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill	\$0.00
B. Mitigation acquisition & credits	\$0.00
C. Project Development Permit Fees	\$0.00
D. Utility Relocation (State Share)	\$0.00
E. Relocation Assistance	\$0.00
F. Clearance/Demolition	\$0.00
G. Title and Escrow Fees	\$0.00
H. SB 1210 Costs & Project Permit Fees	\$0.00
<b>TOTAL RIGHT OF WAY ITEMS</b>	<b>\$0.00</b>

Anticipated Date of Right of Way Certification       -  
(Date to which Values are Escalated)

F. Construction Contract Work	\$0.00
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Brief Description of Work:

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Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

**COMMENTS:**

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By:

Phone #

Date:

## ***DRAFT Planning Cost Estimate***

**PROJECT DESCRIPTION:** Westbound Auxiliary Lane - Hwy 50

**Limits:** from El Dorado Hills Blvd IC WB On-ramp Gore to Sac/El Dorado County Line

**Proposed Improvement:** Auxiliary lanes west of Interchange to Empire - gore to gore  
EB Auxiliary lane not included.

### **SUMMARY OF PROJECT COST ESTIMATE**

TOTAL ROADWAY ITEMS		<b>\$3,870,000</b>
TOTAL STRUCTURE ITEMS		<b>\$0</b>
	SUBTOTAL CONSTRUCTION COSTS	<b>\$3,870,000</b>
TOTAL RIGHT OF WAY ITEMS		<b>\$0</b>
CAPITAL SUPPORT		
	PR/ED (PD,PE,PM) 10%	<b>\$387,000</b>
	PS&E (PS) 20%	<b>\$774,000</b>
	CONSTRUCTION (CM) 15%	<b>\$580,500</b>
	SUBTOTAL CAPITAL SUPPORT	<b>\$1,741,500</b>
	TOTAL PROJECT CAPITAL OUTLAY COSTS	<b>\$5,611,500</b>



<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls - WB	3200	SQFT	\$100.00	\$320,000.00	
Noise Barriers				\$0.00	
Metal Beam Guard Rail		FT		\$0.00	
Minor Concrete (curb and gutter)		FT		\$0.00	
Minor Concrete (channelizing island)				\$0.00	
Minor Concrete (sidewalk)		SQYD		\$0.00	
Equipment/Animal Passes				\$0.00	
Prepare SWPPP	1	LS	\$14,100.00	\$14,100.00	
Temporary Construction BMPs				\$0.00	
Hazardous Waste Mitigation Work				\$0.00	
Environmental Mitigation				\$0.00	
Resident Engineer Office Space	1	LS	\$70,500.00	\$70,500.00	
Water Pollution Control	1	LS	\$423,000.00	\$423,000.00	
				Subtotal Specialty Items	<u>\$827,600.00</u>

<u>Section 5 Traffic Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Lighting		LS		\$0.00	
Pavement Delineation	5700	FT	\$1.00	\$5,700.00	
Pavement Marker (Retroreflective)	60	EA	\$4.00	\$240.00	
Traffic Signals		LS		\$0.00	
Overhead Sign Structures		EA		\$0.00	
Roadside Signs		EA		\$0.00	
Traffic control Systems		LS		\$0.00	
Transportation Management Plan	1	LS	\$70,500.00	\$70,500.00	
Portable Changeable Message Signs	1	LS	\$141,000.00	\$141,000.00	
Construction Area Signs	1	LS	\$70,500.00	\$70,500.00	
Temporary Railing (Type K)	2900	FT	\$15.00	\$43,500.00	
Temporary Traffic Screen	2900	FT	\$5.00	\$14,500.00	
CHP Enhanced Enforcement	1	LS	\$141,000.00	\$141,000.00	
				Subtotal Traffic Items	<u>\$486,940.00</u>

## II. ROADSIDE ITEMS

<u>Section 6 Planting and Irrigation</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Highway Planting/Irrigation		LS		\$0.00	
Replacement Planting				\$0.00	
Irrigation Modification				\$0.00	
Relocate Existing Irrigation Facilities				\$0.00	
Irrigation Crossovers				\$0.00	
				Subtotal Planting and Irrigation Section	<u>\$0.00</u>

Section 7 Roadside Management and Safety

<u>Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments				\$0.00	
Gore Area Pavement				\$0.00	
Pavement beyond the gore area				\$0.00	
Miscellaneous Paving				\$0.00	
Erosion Control	4500	SQYD	\$1.00	\$4,500.00	
Slope Protection				\$0.00	
Side Slopes/Embankment Slopes				\$0.00	
Maintenance Vehicle Pull outs				\$0.00	
Off-Freeway Access (gates, stairways, etc.)				\$0.00	
Roadside Facilities (Vista Points, Transit, Park and Ride, etc.)				\$0.00	
Relocating roadside facilities/features					
Subtotal Roadside Management and Safety Section					<u>\$4,500.00</u>

Section 8 Minor Items

\$2,429,440.00	x 10% * =		
(Subtotal Sections 1 thru 7)			
TOTAL MINOR ITEMS			\$242,944.00

Section 9 Roadway Mobilization

\$2,672,384.00	x 10% * =		
(Subtotal Sections 1 thru 8)			
TOTAL ROADWAY MOBILIZATION			\$267,238.40

Section 10 Roadway Additions

Supplemental Work	\$2,672,384.00	x 10% * =		\$267,238.40
	(Subtotal Sections 1 thru 8)			
Contingencies	\$2,672,384.00	x 25% ** =		\$668,096.00
	(Subtotal Sections 1 thru 6)			
TOTAL ROADWAY ADDITIONS				\$935,334.40
TOTAL ROADWAY ITEMS (Subtotal Sections 1 thru 10)				\$3,874,956.80

\* Use 5% - 10%.

\*\*Use 25% at the PSR stage or a higher or lower rate if justified.

Estimate Prepared By: Krassimir Panayotov, Quincy Eng.      Phone # 916-368-9181      Date: 3/29/2010

Estimate Checked By: Jason Jurens, Quincy Eng.      Phone # 916-368-9181      Date: 3/29/2010

III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)	
Bridge Name				
Structure Type				
Width (out to out) - (ft)				
Span Lengths - (ft)				
Total Area - (ft <sup>2</sup> )				
Footing Type (pile/spread)				
Cost Per ft2				
(including 10% mobilization and 20% contingency)				
Total Cost for Structure				
			SUBTOTAL STRUCTURES ITEMS	\$0.00
			(Sum of Total Cost for Structures)	
Railroad Related Costs				
			SUBTOTAL RAILROAD ITEMS	\$0.00
			TOTAL STRUCTURES ITEMS	\$0.00
			(Sum of Structures Items plus Railroad Items)	

COMMENTS:

Estimate Prepared By: Krassimir Panayotov, Quincy Eng.

Phone # 916-368-9181

Date: 3/29/2010

NOTE: If appropriate, attach additional pages and backup.



IV. RIGHT OF WAY ITEMS	ESCALATED VALUE
A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill	\$0.00
B. Mitigation acquisition & credits	
C. Project Development Permit Fees	\$0.00
D. Utility Relocation (State Share)	\$0.00
E. Relocation Assistance	\$0.00
F. Clearance/Demolition	\$0.00
G. Title and Escrow Fees	\$0.00
<b>TOTAL RIGHT OF WAY ITEMS</b>	<b>\$0.00</b>

Anticipated Date of Right of Way Certification  
(Date to which Values are Escalated)

F. Construction Contract Work	\$0.00
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Brief Description of Work:

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Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

**COMMENTS:**

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By:

Phone #

Date:

NOTE: If appropriate, attach additional pages and backup.



<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls	0	SQFT	\$100.00	\$0.00	
Noise Barriers				\$0.00	
Metal Beam Guard Rail	1000	FT	\$35.00	\$35,000.00	
Minor Concrete (curb and gutter)		FT		\$0.00	
Minor Concrete (channelizing island)				\$0.00	
Minor Concrete (sidewalk)		SQYD		\$0.00	
Equipment/Animal Passes				\$0.00	
Prepare SWPPP	1	LS	\$14,100.00	\$14,100.00	
Temporary Construction BMPs				\$0.00	
Hazardous Waste Mitigation Work				\$0.00	
Environmental Mitigation				\$0.00	
Resident Engineer Office Space	1	LS	\$70,500.00	\$70,500.00	
Water Pollution Control	1	LS	\$423,000.00	\$423,000.00	
				Subtotal Specialty Items	<u>\$542,600.00</u>

<u>Section 5 Traffic Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Lighting		LS		\$0.00	
Pavement Delineation	14000	FT	\$1.00	\$14,000.00	
Pavement Markers		EA	\$4.00	\$0.00	
Traffic Signals		LS		\$0.00	
Overhead Sign Structures		EA		\$0.00	
Roadside Signs	8	EA	\$300.00	\$2,400.00	
Traffic control Systems		LS		\$0.00	
Transportation Management Plan	1	LS	\$70,500.00	\$70,500.00	
Portable Changeable Message Signs	1	LS	\$141,000.00	\$141,000.00	
Construction Area Signs	1	LS	\$70,500.00	\$70,500.00	
Temporary Railing (Type K)	7000	FT	\$15.00	\$105,000.00	
Temporary Traffic Screen	7000	FT	\$5.00	\$35,000.00	
CHP Enhanced Enforcement	1	LS	\$141,000.00	\$141,000.00	
				Subtotal Traffic Items	<u>\$579,400.00</u>

## II. ROADSIDE ITEMS

<u>Section 6 Planting and Irrigation</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Highway Planting/Irrigation				\$0.00	
Replacement Planting				\$0.00	
Irrigation Modification				\$0.00	
Relocate Existing Irrigation Facilities				\$0.00	
Irrigation Crossovers				\$0.00	
				Subtotal Planting and Irrigation Section	<u>\$0.00</u>

Section 7 Roadside Management and Safety

<u>Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments				\$0.00	
Gore Area Pavement				\$0.00	
Pavement beyond the gore area				\$0.00	
Miscellaneous Paving				\$0.00	
Erosion Control	6600	SQYD	\$1.00	\$6,600.00	
Slope Protection				\$0.00	
Side Slopes/Embankment Slopes				\$0.00	
Maintenance Vehicle Pull outs				\$0.00	
Off-Freeway Access (gates, stairways, etc.)				\$0.00	
Roadside Facilities (Vista Points, Transit, Park and Ride, etc.)				\$0.00	
Relocating roadside facilities/features					
Subtotal Roadside Management and Safety Section					<u>\$6,600.00</u>

Section 8 Minor Items

\$3,874,200.00	x 10% * =		
(Subtotal Sections 1 thru 7)			
TOTAL MINOR ITEMS			\$387,420.00

Section 9 Roadway Mobilization

\$4,261,620.00	x 10% * =		
(Subtotal Sections 1 thru 8)			
TOTAL ROADWAY MOBILIZATION			\$426,162.00

Section 10 Roadway Additions

Supplemental Work			
\$4,261,620.00	x 10% * =	\$426,162.00	
(Subtotal Sections 1 thru 8)			
Contingencies			
\$4,261,620.00	x 25% ** =	\$1,065,405.00	
(Subtotal Sections 1 thru 6)			
TOTAL ROADWAY ADDITIONS			\$1,491,567.00
TOTAL ROADWAY ITEMS			\$6,179,349.00
(Subtotal Sections 1 thru 10)			

\* Use 5% - 10%.

\*\*Use 25% at the PSR stage or a higher or lower rate if justified.

Estimate Prepared By: \_\_\_\_\_ Phone # \_\_\_\_\_ Date: 7/21/2015

Estimate Checked By: \_\_\_\_\_ Phone # \_\_\_\_\_ Date: \_\_\_\_\_

III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)	
Bridge Name				
Structure Type				
Width (out to out) - (ft)				
Span Lengths - (ft)				
Total Area - (ft <sup>2</sup> )				
Footing Type (pile/spread)				
Cost Per ft2 (including 10% mobilization and 20% contingency)				
Total Cost for Structure				
				SUBTOTAL STRUCTURES ITEMS (Sum of Total Cost for Structures) \$0.00
Railroad Related Costs				
				SUBTOTAL RAILROAD ITEMS \$0.00
				TOTAL STRUCTURES ITEMS (Sum of Structures Items plus Railroad Items) \$0.00

COMMENTS:

Estimate Prepared By:

Phone #

Date:

NOTE: If appropriate, attach additional pages and backup.

IV. RIGHT OF WAY ITEMS	ESCALATED VALUE
A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill	\$0.00
B. Mitigation acquisition & credits	
C. Project Development Permit Fees	\$0.00
D. Utility Relocation (State Share)	\$0.00
E. Relocation Assistance	\$0.00
F. Clearance/Demolition	\$0.00
G. Title and Escrow Fees	\$0.00
<b>TOTAL RIGHT OF WAY ITEMS</b>	<b>\$0.00</b>

Anticipated Date of Right of Way Certification  
(Date to which Values are Escalated)

F. Construction Contract Work	\$0.00
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Brief Description of Work:

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Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

**COMMENTS:**

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By:

Phone #

Date:

NOTE: If appropriate, attach additional pages and backup.



<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls		SQFT		\$0.00	
Noise Barriers				\$0.00	
Metal Beam Guard Rail		FT		\$0.00	
Minor Concrete (curb and gutter)		FT		\$0.00	
Minor Concrete (channelizing island)				\$0.00	
Minor Concrete (sidewalk)		SQYD		\$0.00	
Equipment/Animal Passes				\$0.00	
Prepare SWPPP	1	LS	\$14,100.00	\$14,100.00	
Temporary Construction BMPs				\$0.00	
Hazardous Waste Mitigation Work				\$0.00	
Environmental Mitigation				\$0.00	
Resident Engineer Office Space	1	LS	\$70,500.00	\$70,500.00	
Water Pollution Control	1	LS	\$423,000.00	\$423,000.00	
				Subtotal Specialty Items	<u>\$507,600.00</u>

<u>Section 5 Traffic Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Lighting		LS		\$0.00	
Pavement Delineation	8500	FT	\$1.00	\$8,500.00	
Pavement Marker (Retroreflective)	90	EA	\$4.00	\$360.00	
Traffic Signals		LS		\$0.00	
Overhead Sign Structures		EA		\$0.00	
Roadside Signs		EA		\$0.00	
Traffic control Systems		LS		\$0.00	
Transportation Management Plan	1	LS	\$70,500.00	\$70,500.00	
Portable Changeable Message Signs	1	LS	\$141,000.00	\$141,000.00	
Construction Area Signs	1	LS	\$70,500.00	\$70,500.00	
Temporary Railing (Type K)	4250	FT	\$15.00	\$63,750.00	
Temporary Traffic Screen	4250	FT	\$5.00	\$21,250.00	
CHP Enhanced Enforcement	1	LS	\$141,000.00	\$141,000.00	
				Subtotal Traffic Items	<u>\$516,860.00</u>

## II. ROADSIDE ITEMS

<u>Section 6 Planting and Irrigation</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Highway Planting/Irrigation		LS		\$0.00	
Replacement Planting				\$0.00	
Irrigation Modification				\$0.00	
Relocate Existing Irrigation Facilities				\$0.00	
Irrigation Crossovers				\$0.00	
				Subtotal Planting and Irrigation Section	<u>\$0.00</u>



Section 7 Roadside Management and Safety

<u>Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments				\$0.00	
Gore Area Pavement				\$0.00	
Pavement beyond the gore area				\$0.00	
Miscellaneous Paving				\$0.00	
Erosion Control	18648	SQYD	\$1.00	\$18,648.00	
Slope Protection				\$0.00	
Side Slopes/Embankment Slopes				\$0.00	
Maintenance Vehicle Pull outs				\$0.00	
Off-Freeway Access (gates, stairways, etc.)				\$0.00	
Roadside Facilities (Vista Points, Transit, Park and Ride, etc.)				\$0.00	
Relocating roadside facilities/features					
Subtotal Roadside Management and Safety Section					<u>\$18,648.00</u>

Section 8 Minor Items

\$2,812,358.00	x 10% * =		
(Subtotal Sections 1 thru 7)			
TOTAL MINOR ITEMS			\$281,235.80

Section 9 Roadway Mobilization

\$3,093,593.80	x 10% * =		
(Subtotal Sections 1 thru 8)			
TOTAL ROADWAY MOBILIZATION			\$309,359.38

Section 10 Roadway Additions

Supplemental Work	\$3,093,593.80	x 10% * =		
	(Subtotal Sections 1 thru 8)			\$309,359.38
Contingencies	\$3,093,593.80	x 25% ** =		
	(Subtotal Sections 1 thru 6)			\$773,398.45
TOTAL ROADWAY ADDITIONS				\$1,082,757.83
TOTAL ROADWAY ITEMS (Subtotal Sections 1 thru 10)				\$4,485,711.01

Estimate Prepared By: Krassimir Panayotov, Quincy Eng.      Phone # 916-368-9181      Date: 3/29/2010

Estimate Checked By: Jason Jurens, Quincy Eng.      Phone # 916-368-9181      Date: 3/29/2010

III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)	
Bridge Name				
Structure Type				
Width (out to out) - (ft)				
Span Lengths - (ft)				
Total Area - (ft <sup>2</sup> )				
Footing Type (pile/spread)				
Cost Per ft2				
(including 10% mobilization and 20% contingency)				
Total Cost for Structure				
			SUBTOTAL STRUCTURES ITEMS	\$0.00
			(Sum of Total Cost for Structures)	
Railroad Related Costs				
			SUBTOTAL RAILROAD ITEMS	\$0.00
			TOTAL STRUCTURES ITEMS	\$0.00
			(Sum of Structures Items plus Railroad Items)	

COMMENTS:

Estimate Prepared By: Krassimir Panayotov, Quincy Eng.

Phone # 916-368-9181

Date: 3/29/2010

NOTE: If appropriate, attach additional pages and backup.

IV. RIGHT OF WAY ITEMS	ESCALATED VALUE
A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill	\$0.00
B. Mitigation acquisition & credits	
C. Project Development Permit Fees	\$0.00
D. Utility Relocation (State Share)	\$0.00
E. Relocation Assistance	\$0.00
F. Clearance/Demolition	\$0.00
G. Title and Escrow Fees	\$0.00
<b>TOTAL RIGHT OF WAY ITEMS</b>	<b>\$0.00</b>

Anticipated Date of Right of Way Certification  
(Date to which Values are Escalated)

F. Construction Contract Work	\$0.00
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Brief Description of Work:

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Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

**COMMENTS:**

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By:

Phone #

Date:

NOTE: If appropriate, attach additional pages and backup.

I. ROADWAY ITEMS

<u>Section 1 Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	13,600	CY	\$30.00	\$408,000.00	
Imported Borrow	2,000	CY	\$45.00	\$90,000.00	
Clearing & Grubbing	1	LS	\$40,000.00	\$40,000.00	
Develop Water Supply	1	LS	\$20,000.00	\$20,000.00	
				\$0.00	
				\$0.00	
				Subtotal Earthwork	<u>\$558,000.00</u>
 <u>Section 2 Pavement Structural Section</u>					
PCC Pavement (___Depth)				\$0.00	
Asphalt Concrete HMA	3,800	TONS	\$110.00	\$418,000.00	
Asphalt Concrete RHMA-O	690	TONS	\$120.00	\$82,800.00	
Lean Concrete Base				\$0.00	
Cement-Treated Base				\$0.00	
Aggregate Base	5,290	CY	\$60.00	\$317,400.00	
Treated Permeable Base				\$0.00	
Aggregate Subbase				\$0.00	
Pavement Reinforcing Fabric				\$0.00	
Slurry Seal				\$0.00	
AC Cold Planing				\$0.00	
				\$0.00	
				Subtotal Pavement Structural Section	<u>\$818,200.00</u>
 <u>Section 3 Drainage</u>					
Large Drainage Facilities				\$0.00	
Storm Drains				\$0.00	
Pumping Plants				\$0.00	
Project Drainage	1	LS	\$207,000.00	\$207,000.00	
Place HMA Dike (Type E)				\$0.00	
				Subtotal Drainage	<u>\$207,000.00</u>

<u>Section 4 Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Retaining Walls	1000	SQFT	\$150.00	\$150,000.00	
Noise Barriers				\$0.00	
Metal Beam Guard Rail	130	LF	\$60.00	\$7,800.00	
Minor Concrete (channelizing island)				\$0.00	
Minor Concrete (curb and gutter)		CY		\$0.00	
Equipment/Animal Passes				\$0.00	
Prepare SWPPP	1	LS	\$15,000.00	\$15,000.00	
Temporary Construction BMPs	1	LS	\$100,000.00	\$100,000.00	
Hazardous Waste Mitigation Work				\$0.00	
Environmental Mitigation				\$0.00	
Resident Engineer Office Space	1	LS	\$30,000.00	\$30,000.00	
Water Pollution Control	1	LS	\$60,000.00	\$60,000.00	
				Subtotal Specialty Items	<u>\$362,800.00</u>

<u>Section 5 Traffic Items</u>					
Lighting	1	LS	\$60,000.00	\$60,000.00	
Traffic Signals	0	EA	\$250,000.00	\$0.00	
Overhead Sign Structures	0	EA		\$0.00	
Traffic Control System	1	LS	\$120,000.00	\$120,000.00	
Transportation Management Plan	1	LS	\$40,000.00	\$40,000.00	
Portable Changeable Message Signs	1	LS	\$45,000.00	\$45,000.00	
Construction Area Signs	1	LS	\$10,000.00	\$10,000.00	
Temporary Railing (Type K)	400	FT	\$30.00	\$12,000.00	
Temporary Traffic Screen	400	FT	\$8.00	\$3,200.00	
CHP Enhanced Enforcement	1	LS	\$50,000.00	\$50,000.00	
Ramp Metering	1	LS	\$55,000.00	\$55,000.00	
Signing and Striping	1	LS	\$12,000.00	\$12,000.00	
				Subtotal Traffic Items	<u>\$407,200.00</u>

## II. ROADSIDE ITEMS

<u>Section 6 Planting and Irrigation</u>					
Highway Planting/Irrigation	1	LS	\$20,000.00	\$20,000.00	
Replacement Planting				\$0.00	
Irrigation Modification				\$0.00	
Relocate Existing Irrigation Facilities				\$0.00	
Irrigation Crossovers				\$0.00	
				Subtotal Planting and Irrigation Section	<u>\$20,000.00</u>

Section 7 Roadside Management and Safety

<u>Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments				\$0.00	
Minor Concrete (Textured Paving)					
Gore Area Pavement	15	CY	\$800.00	\$12,000.00	
Pavement beyond the gore area				\$0.00	
Miscellaneous Paving				\$0.00	
Erosion Control	1	LS	\$15,000.00	\$15,000.00	
Slope Protection				\$0.00	
Side Slopes/Embankment Slopes				\$0.00	
Maintenance Vehicle Pull outs	1	LS	\$10,000.00	\$10,000.00	
Off-Freeway Access (gates, stairways, etc.)				\$0.00	
Roadside Facilities (Vista Points, Transit, Park and Ride, etc.)				\$0.00	
Relocating roadside facilities/features					
Subtotal Roadside Management and Safety Section					<u>\$37,000.00</u>

Section 8 Minor Items

\$2,410,200.00	x 10% =		
(Subtotal Sections 1 thru 7)			
TOTAL MINOR ITEMS			\$241,020.00

Section 9 Roadway Mobilization

\$2,651,220.00	x 10% =		
(Subtotal Sections 1 thru 8)			
TOTAL ROADWAY MOBILIZATION			\$265,122.00

Section 10 Roadway Additions

Supplemental Work	\$2,651,220.00	x 10%=	\$265,122.00
	(Subtotal Sections 1 thru 8)		
Contingencies	\$2,651,220.00	x 25% =	\$662,805.00
	(Subtotal Sections 1 thru 6)		
TOTAL ROADWAY ADDITIONS			\$927,927.00
TOTAL ROADWAY ITEMS			\$3,844,269.00
(Subtotal Sections 1 thru 10)			

Estimate Prepared By: \_\_\_\_\_ Phone # \_\_\_\_\_ Date: 8/3/2015

Estimate Checked By: \_\_\_\_\_ Phone # \_\_\_\_\_ Date: \_\_\_\_\_

III. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)
Bridge Name	Clarksville UC - Br		
Structure Type	No. 25-0072		
Width (out to out) - (ft)	38		
Span Lengths - (ft)	106		
Total Area - (ft <sup>2</sup> )	4028		
Footing Type (pile/spread)			
Cost Per ft2	\$275		
Subtotal	\$1,107,700		
(including 10% mobilization	\$110,770.0		
and 20% contingency)	\$221,540.0		
Total Cost for Structure	\$1,440,010.00		
		SUBTOTAL STRUCTURES ITEMS	\$1,440,010.00
		(Sum of Total Cost for Structures)	
 Railroad Related Costs			
		SUBTOTAL RAILROAD ITEMS	\$0.00
		TOTAL STRUCTURES ITEMS	\$1,440,010.00
		TOTAL STRUCTURES ITEMS (ROUNDED)	\$1,441,000.00
		(Sum of Structures Items plus Railroad Items)	

COMMENTS:

Estimate Prepared By: \_\_\_\_\_ Phone # \_\_\_\_\_ Date: 8/3/2015

NOTE: If appropriate, attach additional pages and backup.

IV. RIGHT OF WAY ITEMS	ESCALATED VALUE
A. Acquisition, including excess lanes, damages to remainder(s) and Goodwill	\$0.00
B. Mitigation acquisition & credits	\$0.00
C. Project Development Permit Fees	\$0.00
D. Utility Relocation (State Share)	\$0.00
E. Relocation Assistance	\$0.00
F. Clearance/Demolition	\$0.00
G. Title and Escrow Fees	\$0.00
H. SB 1210 Costs & Project Permit Fees	\$0.00
<b>TOTAL RIGHT OF WAY ITEMS</b>	<b>\$0.00</b>

Anticipated Date of Right of Way Certification       -  
 (Date to which Values are Escalated)

F. Construction Contract Work	\$0.00
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Brief Description of Work:

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Right of Way Branch Cost Estimate for Work\*

\* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

**COMMENTS:**

Assumes dedication of required right of way. Using retaining walls to avoid taking additional right of way that would be beyond right of way dedicated as part of the development agreement.

Estimate Prepared By:

Phone #

Date: