

State Route 70/Erle Interchange Option B Cost Estimate Summary

03-YUB-65, PM 7.5/9.2

03-YUB-70, PM 7.0/9.0

EA 03-3E810K

PROJECT DESCRIPTION:

Limits: Erle Road / SR 70 Interchange Improvements (PM 10.155). Erle Road improvements limits are from Chestnut Road to Edgewater Circle. SR 70 improvement limits are from approximately .5 miles north and south Erle Interchange.

Proposed Improvement (Scope): Major Improvement features includes widening the existing overcrossing and overhead, ramp widening, new ramp re-configurations, and Erle and Lindhurst Road widening.

Alternative: Option B

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$	<u>18,570,000</u>
TOTAL STRUCTURE ITEMS	\$	<u>28,700,000</u>
SUBTOTAL CONSTRUCTION COSTS	\$	<u>47,270,000</u>
TOTAL RIGHT OF WAY ITEMS	\$	<u>7,610,000</u>
TOTAL ALTERNATIVE COST	\$	<u>54,880,000</u>

Reviewed by District Program Manager

(Signature)

Approved by Project Manager

(Signature)

Date

Phone Number _____

I. ROADWAY ITEMS

Section 1. Earthwork

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	10,000	CY	\$ 20.00	\$ 200,000	
Imported Borrow	400,000	CY	\$ 17.00	\$ 6,800,000	
Remove Curb and Gutter		FT	\$ 6.00	\$ -	
Remove SW		SF	\$ 3.00	\$ -	
Remove PCC Pavement- WB Tower Bridge		SF	\$ 3.00	\$ -	
Remove AC Pavement- Realignment of ramps		SF	\$ 3.00	\$ -	
Clearing & Grubbing		LS	\$ 25,000.00	\$ 25,000	
Remove Unsuitable Material			\$ -	\$ -	
Develop Water Supply			\$ -	\$ -	
Roadway Obliteration	109,815	SQYD	\$ 3.00	\$ 329,445	
<u>Subtotal Earthwork</u>					\$ 7,354,445

Section 2. Pavement Structural Section

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
PCC Pavement (1.0' Depth) Curb and Gutter		CY	\$ 625.00	\$ -	
PCC Pavement (1.0' Depth) Median Curb		CY	\$ 625.00	\$ -	
PCC Pavement (0.5' Depth) Medians		CY	\$ 300.00	\$ -	
PCC Pavement (0.5' Depth) SW	1,166	CY	\$ 300.00	\$ 349,800	
Asphalt Concrete (0.2'-0.7' Depth)	5,846	TON	\$ 95.00	\$ 555,408	
Open Graded AC (___ Depth)			\$ -	\$ -	
Cement-Treated Base			\$ -	\$ -	
Aggregate Base (1.5' Depth)	16,339	CY	\$ 60.00	\$ 980,340	
Treated Permeable Base			\$ -	\$ -	
Aggregate Subbase			\$ -	\$ -	
Pavement Reinforcing Fabric			\$ -	\$ -	
Asphaltic Emulsion Binder			\$ -	\$ -	
Crack Sealing			\$ -	\$ -	
AC Cold Planing		SF	\$ 1.00	\$ -	
Shoulder Backing			\$ -	\$ -	
<u>Subtotal Pavement Structural Section</u>					\$ 1,885,548

Section 3. Drainage

	<u>Section Cost</u>
\$ 10,582,729 x (10%) =	\$ 1,058,273
(Subtotal Sections 1, 2, 4 & 5)	
Subtotal Drainage Items	\$ 1,058,273
<u>Subtotal Drainage</u>	\$ 1,058,273

Section 4. Specialty Items

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Misc Frontage Work	1	LS	\$ 300,000	\$ 300,000	
Retaining Walls			\$ -	\$ -	
Rumble Strip			\$ -	\$ -	
Barriers and Guardrails			\$ -	\$ -	
Left Turn Channelization			\$ -	\$ -	
Highway Planting	1	LS	\$ 100,000	\$ 100,000	
-Concrete Barrier (Type 60C)		LF	\$ 75	\$ -	
-Asphalt Concrete (.67' Depth)		TON	\$ 100.00	\$ -	
-Aggregate Base (1.5' Depth)		CY	\$ 50.00	\$ -	
-Roadway Excavation		CY	\$ 20.00	\$ -	
-Remove Metal Beam Guardrail		LF	\$ 35.00	\$ -	
Replacement Planting			\$ -	\$ -	
Irrigation Modification			\$ -	\$ -	
Relocate Private Irrigation Facilities			\$ -	\$ -	
Erosion Control			\$ -	\$ -	
Slope Protection			\$ -	\$ -	
Water Pollution Control			\$ -	\$ -	
Hazardous Waste Mitigation Work			\$ -	\$ -	
Environmental Mitigation			\$ -	\$ -	
Resident Engineer Office Space			\$ -	\$ -	

Subtotal Specialty Items \$ 400,000

Section 5. Traffic Items

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Lighting		EA	\$ 6,000	\$ -	
Traffic Signals	16	EA	\$ 25,000	\$ 400,000	
Overhead Signs - Hanging from structure	2	EA	\$ 15,000	\$ 30,000	
Overhead Signs - WB On Ramp		EA	\$ 85,000	\$ -	
Construction Area Signs		EA	\$ 200	\$ -	
Traffic Control	1	LS	\$ 350,000	\$ 350,000	
Incl Traffic Control Systems and Traffic Delineation Items and Transportation Management Plan				\$ -	
Remove Signing and Striping	33122	LF	\$ 1.3	\$ 43,059	
Remove Pavement Marking	969	SF	\$ 7.0	\$ 6,783	
Signing and Striping	62314	LF	\$ 1.7	\$ 105,934	
Pavement Marking	2047	SF	\$ 3.4	\$ 6,960	

Subtotal Traffic Items Section \$ 942,735

TOTAL SECTIONS 1 thru 5 \$ 11,641,001

Section 6. Minor Items

Section Cost

\$ 11,641,001 x (10%) = \$ 1,164,100
(Subtotal Sections 1 thru 5)

Subtotal Minor Items \$ 1,164,100

Section 7. Roadway Mobilization

Section Cost

\$ 12,805,102 x (10%) = \$ 1,280,510
(Subtotal Sections 1 thru 6)

Subtotal Roadway Mobilization \$ 1,280,510

Section 8. Roadway Additions

Section Cost

Supplemental Work
\$ 12,805,102 x (10%) = \$ 1,280,510
(Subtotal Sections 1 thru 6)

Contingencies
\$ 12,805,102 x (25%) = \$ 3,201,275
(Subtotal Sections 1 thru 6)

Subtotal Roadway Additions \$ 4,481,786

TOTAL ROADWAY ITEMS \$ 18,567,397
(Subtotal Sections 1 thru 8)

CALL \$ 18,570,000

Estimate Prepared By Christine Jansen **Phone #** (916)781-3835 **Date** Oct-08
(Print Name)

Estimate Checked By Sandy Wong **Phone #** (916)960-4330 **Date** Oct-08
(Print Name)

II. STRUCTURES ITEMS

	Structure I	Structure II	Structure III	Structure IV
Bridge Name	<u>Erle Widening</u>	<u>Erle OC (RR)</u>	<u>N. Lindhurst</u>	<u>S. Lindhurst</u>
Structure Type				
Width (out to out) - (ft)				
Length - (ft)				
Total Area -(ft ²)	<u>32900</u>	<u>23300</u>	<u>36500</u>	<u>46300</u>
Footing Type (pile/spread)				
Cost per ft ²				
Incl 10% mobilization and 25% contingency)	\$ <u>207</u>	\$ <u>219</u>	\$ <u>192</u>	\$ <u>192</u>
Remove Existing Structure	<u>750000</u>	<u>50000</u>		
Total Cost For Structure	\$ <u>7,600,000</u>	\$ <u>5,200,000</u>	\$ <u>7,000,000</u>	\$ <u>8,900,000</u>
			Subtotal Structures Items	\$ <u>28,700,000</u>
			(Sum of Total Cost for Structures)	

Railroad Related Costs:	_____	\$ <u>-</u>
	_____	\$ <u>-</u>
	_____	\$ <u>-</u>
		Subtotal Railroad Items \$ <u>-</u>

TOTAL STRUCTURES ITEMS \$ 28,700,000
(Sum of Structures Items plus Railroad Items)

COMMENTS: See APS for Option D approved 12/15/2008 by AD

Estimate Prepared By	<u>Christine Jansen</u> (Print Name)	Phone #	<u>(916)781-3835</u>	Date	<u>Oct-08</u>
Estimate Checked By	<u>Sandy Wong</u> (Print Name)	Phone #	<u>(916)9604330</u>	Date	<u>Oct-08</u>

III. RIGHT OF WAY ITEMS

	ESCALATED VALUE
A. Acquisition, including excess lands, damages to remainder(s) and Goodwill	\$ 7,376,694
B. Utility Relocation (State Share)	\$ 50,000
C. Relocation Assistance	\$ 140,000
D. Clearance/Demolition	\$ -
E. Title and Escrow Fees	\$ 39,000

TOTAL RIGHT OF WAY ITEMS \$ 7,610,000

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

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:

Estimate Prepared By	Christine Jansen (Print Name)	Phone #	(916)781-3835	Date	Oct-08
Estimate Checked By	Sandy Wong (Print Name)	Phone #	(916)9604330	Date	Oct-08