

Attachment F
Preliminary Cost Estimates

COST ESTIMATE SUMMARY

District-County-Route	03-PLA-80, 03-PLA-65
PM	80: 1.9-6.1/65: R4.8-R7.3
Type of Estimate	Draft PR
EA	03-4E3200

CALTRANS IMPROVEMENTS

I. ROADWAY ITEMS:

Section 1 Earthwork

	Quantity	Unit	Unit Price	Item Cost	Section Cost
Roadway Excavation	608,130	CY	\$ 25.00	\$ 15,203,250	
Imported Borrow	474,700	CY	\$ 15.00	\$ 7,120,500	
Clearing & Grubbing	1	LS	\$ 300,000.00	\$ 300,000	
Existing Pavement Excavation	553,200	CY	\$ 25.00	\$ 13,830,000	
				Subtotal Earthwork	\$ 36,453,750

Section 2 Structural Section

HMA (Type A)	146,900	TON	\$ 85.00	\$ 12,486,500	
Aggregate Base Class II	149,000	CY	\$ 50.00	\$ 7,450,000	
Pavement Reinforcing Fabric	337,600	SQYD	\$ 1.50	\$ 506,400	
Minor Concrete (Curb, Gutter, Sidewalk)	600	CY	\$ 485.00	\$ 291,000	
Cold Plane AC Pavement	499,700	SQYD	\$ 2.00	\$ 999,400	
				Subtotal Structural Section	\$ 21,733,300

Section 3 Drainage

Remove Existing Drainage Facilities	1	LS	\$ 300,000.00	\$ 300,000	
Project Drainage (X-Drains, overside, etc.)	1	LS	\$ 19,177,500.00	\$ 19,177,500	
Ditch Excavation	1	LS	\$ 200,000.00	\$ 200,000	
				Subtotal Drainage	\$ 19,677,500

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Type of Estimate	Draft PR
EA	03-4E3200

I. ROADWAY ITEMS (Cont'n)

Section 4 Specialty Items

	Quantity	Unit	Unit Price	Item Cost	Section Cost
Retaining Walls	12,070	SF	\$ 65.00	\$ 784,550	
Noise Barriers	155,700	SF	\$ 20.00	\$ 3,114,000	
Barriers and Guardrails	10,740	LF	\$ 45.00	\$ 483,300	
Highway Planting	1	LS	\$ 5,000,000.00	\$ 5,000,000	
Replacement Planting	1	LS	\$ 2,000,000.00	\$ 2,000,000	
Erosion Control	1	LS	\$ 335,000.00	\$ 335,000	
Water Pollution Control	1	LS	\$ 100,000.00	\$ 100,000	
Hazardous Waste Mitigation Work	1	LS	\$ 2,322,478.00	\$ 2,322,478	
Storm Water Treatment BMPs	1	LS	\$ 3,500,000.00	\$ 3,500,000	
Prepare SWPPP	1	LS	\$ 30,000.00	\$ 30,000	
Storm Water Construction BMPs	1	LS	\$ 1,500,000.00	\$ 1,500,000	
Environmental Mitigation	1	LS	\$ 250,000.00	\$ 250,000	
Resident Engineer Office Space	1	LS	\$ 250,000.00	\$ 250,000	
Subtotal Specialty Items					\$ 19,669,328

Section 5 Traffic Items

Lighting	1	LS	\$ 5,500,000.00	\$ 5,500,000	
Traffic Striping	228,300	LF	\$ 5.00	\$ 1,141,500	
Traffic Signs	1	LS	\$ 40,000.00	\$ 40,000	
Traffic Signals	1	EA	\$ 300,000.00	\$ 300,000	
COZEEP/FSP	780	DAYS	\$ 4,000.00	\$ 3,120,000	
Traffic Control	780	DAYS	\$ 3,000.00	\$ 2,340,000	
Public Information	1	LS	\$ 100,000.00	\$ 100,000	
New Ramp Meter Installation	1	LS	\$ 250,000.00	\$ 250,000	
Temporary Railing (Type K)	66,800	LF	\$ 18.00	\$ 1,202,400	
Subtotal Traffic Items					\$ 13,993,900

TOTAL SECTIONS 1 thru 5 \$ 111,527,778

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II. STRUCTURE ITEMS

Bridge Name	Area (Sq-Ft)	Cost/Sq-Ft	Demolition Cost	Total Cost
E80/N65 Connector	108,918	\$ 275	\$ 190,500	\$ 30,143,000
80/65 HOV Connector	91,541	\$ 275	\$ -	\$ 25,173,800
S65/E80 Connector	135,807	\$ 275	\$ 138,330	\$ 37,485,300
S65/W80 Connector	11,558	\$ 300	\$ -	\$ 3,467,400
"T" Undercrossing (Left)	11,875	\$ 300	\$ -	\$ 3,562,500
"T" Undercrossing (Right)	14,007	\$ 300	\$ -	\$ 4,202,100
Taylor Road OC (Replace)	35,880	\$ 300	\$ 338,600	\$ 11,102,600
E. Roseville Viaduct	258,416	\$ 250	\$ 553,395	\$ 65,157,400

SUBTOTAL STRUCTURES ITEMS \$ 180,294,100
(Sum of Total Cost for Structures)

Railroad Related Costs:

Flagging (Day): 250 Days @ \$1000/Day	\$ 250,000.00	\$ 250,000
Flagging (Night): 250 Nights @ \$2000/Night	\$ 500,000.00	\$ 500,000

SUBTOTAL RAILROAD ITEMS \$ 750,000

TOTAL STRUCTURES ITEMS \$ 181,044,100
(Sum of Structures Items plus Railroad Items)

Estimate Prepared By <u>Jennifer Elwood, PE</u>	<u>916-286-0267</u>	<u>07-18-2014</u>
(Print Name)	Phone #	Date

COST ESTIMATE SUMMARY

District-County-Route	03-PLA-80, 03-PLA-65
PM	80: 1.9-6.1/65: R4.8-R7.3
Type of Estimate	Draft PR
EA	03-4E3200

Project Description: I-80/SR 65 SYSTEM INTERCHANGE IMPROVEMENTS

Limits: I-80 FROM DOUGLAS BLVD TO ROCKLIN ROAD AND

Alternative: SR 65 FROM I-80 TO PLEASANT GROVE BLVD
ALTERNATIVE 2 - COLLECTOR DISTRIBUTOR RAMPS

Proposed Improvement (Scope): UPGRADE THE I-80/SR 65 INTERCHANGE AND ADJACENT
TRANSPORTATION FACILITIES TO REDUCE TRAFFIC CONGESTION
COMPLY WITH CURRENT DESIGN STANDARDS. ALTERNATIVE 2
PROPOSES AN EASTBOUND COLLECTOR-DISTRIBUTOR
SYSTEM TO PROVIDE ACCESS TO TAYLOR ROAD

TOTAL ROADWAY ITEMS	\$ 151,600,000
TOTAL STRUCTURE ITEMS	\$ 194,000,000
SUBTOTAL CONSTRUCTION COSTS	\$ 345,600,000
TOTAL RIGHT OF WAY ITEMS	\$ 5,490,000
TOTAL PROJECT CAPITAL OUTLAY COST	\$ 351,100,000
3% COMPOUNDED TO 2020	\$ 419,200,000

Prepared by	Lauren Proctor, PE	916-286-0332	7-18-2014
	<i>Name</i>	<i>Phone No.</i>	<i>Date</i>

COST ESTIMATE SUMMARY

District-County-Route	03-PLA-80, 03-PLA-65
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Type of Estimate	Draft PR
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CALTRANS IMPROVEMENTS

I. ROADWAY ITEMS:

Section 1 Earthwork

	Quantity	Unit	Unit Price	Item Cost	Section Cost
Roadway Excavation	188,400	CY	\$ 25.00	\$ 4,710,000	
Imported Borrow	847,200	CY	\$ 15.00	\$ 12,708,000	
Clearing & Grubbing	1	LS	\$ 300,000.00	\$ 300,000	
Existing Pavement Excavation	190,700	CY	\$ 25.00	\$ 4,767,500	
				Subtotal Earthwork	\$ 22,485,500

Section 2 Structural Section

HMA (Type A)	158,100	TON	\$ 85.00	\$ 13,438,500	
Aggregate Base	154,900	CY	\$ 50.00	\$ 7,745,000	
Pavement Reinforcing Fabric	309,700	SQYD	\$ 1.50	\$ 464,550	
Concrete (Curb, Gutter, Sidewalk)	540	CY	\$ 485.00	\$ 261,972	
Cold Plane AC Pavement	106,500	SQYD	\$ 2.00	\$ 213,000	
				Subtotal Structural Section	\$ 22,123,022

Section 3 Drainage

Remove Existing Drainage Facilities	1	LS	\$ 300,000.00	\$ 300,000	
Project Drainage (X-Drains, overside, etc.)	1	LS	\$ 17,559,500.00	\$ 17,559,500	
Ditch Excavation	1	LS	\$ 200,000.00	\$ 200,000	
				Subtotal Drainage	\$ 18,059,500

COST ESTIMATE SUMMARY

District-County-Route	03-PLA-80, 03-PLA-65
PM	80: 1.9-6.1/65: R4.8-R7.3
Type of Estimate	Draft PR
EA	03-4E3200

I. ROADWAY ITEMS (Cont'n)

Section 4 Specialty Items

	Quantity	Unit	Unit Price	Item Cost	Section Cost
Retaining Walls	109,000	SF	\$ 65.00	\$ 7,085,000	
Noise Barriers	155,700	SF	\$ 20.00	\$ 3,114,000	
Barriers and Guardrails	29,100	LF	\$ 45.00	\$ 1,309,500	
Highway Planting	1	LS	\$ 5,000,000.00	\$ 5,000,000	
Replacement Planting	1	LS	\$ 2,000,000.00	\$ 2,000,000	
Erosion Control	1	LS	\$ 335,000.00	\$ 335,000	
Water Pollution Control	1	LS	\$ 100,000.00	\$ 100,000	
Hazardous Waste Mitigation Work	1	LS	\$ 947,537.00	\$ 947,537	
Storm Water Treatment BMPs	1	LS	\$ 2,500,000.00	\$ 2,500,000	
Prepare SWPPP	1	LS	\$ 30,000.00	\$ 30,000	
Storm Water Construction BMPs	1	LS	\$ 1,500,000.00	\$ 1,500,000	
Environmental Mitigation	1	LS	\$ 300,000.00	\$ 300,000	
Resident Engineer Office Space	1	LS	\$ 250,000.00	\$ 250,000	
			Subtotal Specialty Items		\$ 24,471,037

Section 5 Traffic Items

Lighting	1	LS	\$ 5,500,000.00	\$ 5,500,000	
Traffic Striping	737,500	LF	\$ 5.00	\$ 3,687,500	
Traffic Signs	1	LS	\$ 40,000.00	\$ 40,000	
COZEEP/FSP	780	DAYS	\$ 4,000.00	\$ 3,120,000	
Traffic Control	780	DAYS	\$ 3,000.00	\$ 2,340,000	
Public Information	1	LS	\$ 100,000.00	\$ 100,000	
New Ramp Meter Installation	1	LS	\$ 200,000.00	\$ 200,000	
Temporary Railing (Type K)	101,200	LF	\$ 18.00	\$ 1,821,600	
			Subtotal Traffic Items		\$ 16,809,100

TOTAL SECTIONS 1 thru 5 \$ 103,948,159

COST ESTIMATE SUMMARY

District-County-Route	<u>03-PLA-80, 03-PLA-65</u>
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Type of Estimate	<u>Draft PR</u>
EA	<u>03-4E3200</u>

I. ROADWAY ITEMS (Cont'n)

<u>Section 6 Minor Item</u>		Item Cost	Section Cost
Subtotal Sections 1-5	\$ 103,948,159 x 8%	\$ 8,315,900	
		Total Minor Items	\$ 8,315,900
<u>Section 7 Roadway Mobilization</u>			
	\$ 112,264,059 x 10% (Subtotal Sections 1 thru 6)	\$ 11,226,400	
		Total Roadway Mobilization	\$ 11,226,400
<u>Section 8 Roadway Additions</u>			
Supplemental Work	\$ 112,264,059 x 5% (Subtotal Sections 1 thru 6)	\$ 5,613,200	
Contingencies*	\$ 112,264,059 x 20% (Subtotal Sections 1 thru 6)	\$ 22,452,800	
		Total Roadway Additions	\$ 28,066,000
		TOTAL ROADWAY ITEMS (Total of Sections 1-8)	\$ 151,556,459

Estimate Prepared By:	<u>Lauren Proctor, PE</u>	<u>916-286-0267</u>	<u>7-18-2014</u>
	(Print Name)	Phone#	Date
Estimate Checked By:	<u>John O'Reilly</u>	<u>916-563-2598</u>	<u>7-23-2014</u>
	(Print Name)	Phone#	Date

COST ESTIMATE SUMMARY

District-County-Route	03-PLA-80, 03-PLA-65
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Type of Estimate	Draft PR
EA	03-4E3200

II. STRUCTURE ITEMS

Bridge Name	Area (Sq-Ft)	Cost/Sq-Ft	Demolition Cost	Total Cost
NB SR-65 On Ramp ("CD3")	8,736	\$ 300	\$ -	\$ 2,620,800
EB I-80 On Ramp ("CD4")	35,867	\$ 300	\$ -	\$ 10,760,100
E80/N65 Connector ("EN")	115,185	\$ 275	\$ 190,500	\$ 31,866,400
80/65 HOV Connector ("HOV")	90,888	\$ 275	\$ -	\$ 24,994,200
Miners Ravine Bridge ("CD1")	9,547	\$ 300	\$ -	\$ 2,864,100
S65/E80 Connector ("SE")	130,581	\$ 275	\$ 138,300	\$ 36,048,100
Taylor Road OC (Replace) "TR"	41,177	\$ 300	\$ 338,600	\$ 12,691,700
Eureka Road On Ramp UC	17,820	\$ 350	\$ -	\$ 6,237,000
E. Roseville Viaduct	258,416	\$ 250	\$ 553,395	\$ 65,157,400

SUBTOTAL STRUCTURES ITEMS (Sum of Total Cost for Structures)	\$ 193,239,800
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Railroad Related Costs:

Flagging (Day): 250 Days @ \$1000/Day	\$ 250,000.00	\$ -
Flagging (Night): 250 Nights @ \$2000/Night	\$ 500,000.00	\$ 250,000

SUBTOTAL RAILROAD ITEMS	\$ 750,000
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TOTAL STRUCTURES ITEMS (Sum of Structures Items plus Railroad Items)	\$ 193,989,800
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Estimate Prepared By <u>Jennifer Elwood, PE</u>	<u>916-286-0267</u>	<u>7-18-2014</u>
(Print Name)	Phone #	Date

COST ESTIMATE SUMMARY

District-County-Route	03-PLA-80, 03-PLA-65
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Project Description:	I-80/SR 65 SYSTEM INTERCHANGE IMPROVEMENTS
Limits:	I-80 FROM DOUGLAS BLVD TO ROCKLIN ROAD AND
Alternative:	SR 65 FROM I-80 TO PLEASANT GROVE BLVD
	ALTERNATIVE 3 - TAYLOR ROAD INTERCHANGE ELIMINATED
Proposed Improvement (Scope):	UPGRADE THE I-80/SR 65 INTERCHANGE AND ADJACENT
	TRANSPORTATION FACILITIES TO REDUCE TRAFFIC CONGESTION
	COMPLY WITH CURRENT DESIGN STANDARDS. ALTERNATIVE 3
	REMOVES THE EXISTING TAYLOR ROAD INTERCHANGE. TAYLOR
	ROAD WOULD BE ACCESSED FROM ADJACENT INTERCHANGES

TOTAL ROADWAY ITEMS	\$ 150,700,000
TOTAL STRUCTURE ITEMS	\$ 185,300,000
SUBTOTAL CONSTRUCTION COSTS	\$ 336,000,000
TOTAL RIGHT OF WAY ITEMS	\$ 5,740,000
TOTAL PROJECT CAPITAL OUTLAY COST	\$ 341,800,000
3% COMPOUNDED TO 2020	\$ 408,100,000

Prepared by	Dave Melis, PE	916-363-4210	7-16-2014
	<i>Name</i>	<i>Phone No.</i>	<i>Date</i>

COST ESTIMATE SUMMARY

District-County-Route	03-PLA-80, 03-PLA-65
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Type of Estimate	Draft PR
EA	03-4E3200

CALTRANS IMPROVEMENTS

I. ROADWAY ITEMS:

<u>Section 1 Earthwork</u>	Quantity	Unit	Unit Price	Item Cost	Section Cost
Roadway Excavation	206,300	CY	\$ 25.00	\$ 5,157,500	
Imported Borrow	476,800	CY	\$ 15.00	\$ 7,152,000	
Clearing & Grubbing	1	LS	\$ 300,000.00	\$ 300,000	
Existing Pavement Excavation	513,100	CY	\$ 25.00	\$ 12,827,500	
				Subtotal Earthwork	\$ 25,437,000

Section 2 Structural Section

HMA (Type A)	162,800	TON	\$ 85.00	\$ 13,838,000	
Aggregate Base	163,800	CY	\$ 50.00	\$ 8,190,000	
Pavement Reinforcing Fabric	325,300	SQYD	\$ 1.50	\$ 487,950	
Minor Concrete (Curb, Gutter, Sidewalk)	1,290	CY	\$ 485.00	\$ 625,650	
Cold Plane AC Pavement	106,500	SQYD	\$ 2.00	\$ 213,000	
				Subtotal Structural Section	\$ 23,354,600

Section 3 Drainage

Remove Existing Drainage Facilities	1	LS	\$ 300,000.00	\$ 300,000	
Project Drainage (X-Drains, overside, etc.)	1	LS	\$ 16,809,000.00	\$ 16,809,000	
Ditch Excavation	1	LS	\$ 200,000.00	\$ 200,000	
				Subtotal Drainage	\$ 17,309,000

COST ESTIMATE SUMMARY

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Type of Estimate	Draft PR
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I. ROADWAY ITEMS (Cont'n)

Section 4 Specialty Items

	Quantity	Unit	Unit Price	Item Cost	Section Cost
Retaining Walls	109,000	SF	\$ 65.00	\$ 7,085,000	
Noise Barriers	155,700	SF	\$ 20.00	\$ 3,114,000	
Barriers and Guardrails	34,000	LF	\$ 45.00	\$ 1,530,000	
Highway Planting	1	LS	\$ 5,000,000.00	\$ 5,000,000	
Replacement Planting	1	LS	\$ 2,000,000.00	\$ 2,000,000	
Erosion Control	1	LS	\$ 335,000.00	\$ 335,000	
Water Pollution Control	1	LS	\$ 100,000.00	\$ 100,000	
Hazardous Waste Mitigation Work	1	LS	\$ 1,438,600.00	\$ 1,438,600	
Storm Water Treatment BMPs	1	LS	\$ 3,500,000.00	\$ 3,500,000	
Prepare SWPPP	1	LS	\$ 30,000.00	\$ 30,000	
Storm Water Construction BMPs	1	LS	\$ 1,500,000.00	\$ 1,500,000	
Environmental Mitigation	1	LS	\$ 25,000.00	\$ 25,000	
Resident Engineer Office Space	1	LS	\$ 250,000.00	\$ 250,000	
			Subtotal Specialty Items		\$ 25,907,600

Section 5 Traffic Items

Lighting	1	LS	\$ 5,500,000.00	\$ 5,500,000	
Traffic Striping	268,600	LF	\$ 5.00	\$ 1,343,000	
Traffic Signs	1	LS	\$ 40,000.00	\$ 40,000	
COZEEP/FSP	1	LS	\$ 4,000.00	\$ 4,000	
Traffic Control	780	DAYS	\$ 3,000.00	\$ 2,340,000	
Public Information	1	LS	\$ 100,000.00	\$ 100,000	
New Ramp Meter Installation	1	LS	\$ 200,000.00	\$ 200,000	
Temporary Railing (Type K)	103,100	LF	\$ 18.00	\$ 1,855,800	
			Subtotal Traffic Items		\$ 11,382,800

TOTAL SECTIONS 1 thru 5 \$ 103,391,000

COST ESTIMATE SUMMARY

District-County-Route	<u>03-PLA-80, 03-PLA-65</u>
PM	<u>80: 1.9-6.1/65: R4.8-R7.3</u>
Type of Estimate	<u>Draft PR</u>
EA	<u>03-4E3200</u>

I. ROADWAY ITEMS (Cont'n)

			Item Cost	Section Cost
<u>Section 6 Minor Item</u>				
Subtotal Sections 1-5	<u>\$ 103,391,000</u>	x 8%	<u>\$ 8,271,300</u>	
			Total Minor Items	<u>\$ 8,271,300</u>
<u>Section 7 Roadway Mobilization</u>				
	<u>\$ 111,662,300</u>	x 10%	<u>\$ 11,166,200</u>	
(Subtotal Sections 1 thru 6)				
			Total Roadway Mobilization	<u>\$ 11,166,200</u>
<u>Section 8 Roadway Additions</u>				
Supplemental Work				
	<u>\$ 111,662,300</u>	x 5%	<u>\$ 5,583,100</u>	
(Subtotal Sections 1 thru 6)				
Contingencies*				
	<u>\$ 111,662,300</u>	x 20%	<u>\$ 22,332,500</u>	
(Subtotal Sections 1 thru 6)				
			Total Roadway Additions	<u>\$ 27,915,600</u>
			TOTAL ROADWAY ITEMS	<u>\$ 150,744,100</u>
			(Total of Sections 1-8)	

Note: Import/Export quantities do no account for shrinkage or swell.

Estimate Prepared By:	<u>Dave Melis, PE</u>	<u>916-286-0267</u>	<u>7-16-2014</u>
	(Print Name)	Phone#	Date
Estimate Checked By:	<u>John O'Reilly</u>	<u>916-563-25922-3954</u>	<u>7-23-2014</u>
	(Print Name)	Phone#	Date

COST ESTIMATE SUMMARY

District-County-Route	03-PLA-80, 03-PLA-65
PM	80: 1.9-6.1/65: R4.8-R7.3
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EA	03-4E3200

II. STRUCTURE ITEMS

Bridge Name	Area (Sq-Ft)	Cost/Sq-Ft	300	Demolition Cost	-	Total Cost
NB SR-65 On Ramp ("CD3")	8,736	\$	300	\$	-	\$ 2,620,800
EB I-80 On Ramp ("CD4")	35,867	\$	300	\$	-	\$ 10,760,100
E80/N65 Connector ("EN")	115,185	\$	275	\$	190,500	\$ 31,866,400
80/65 HOV Connector ("HOV")	90,888	\$	275	\$	-	\$ 24,994,200
S65/E80 Connector ("SE")	130,581	\$	275	\$	138,300	\$ 36,048,100
Taylor Road OC (Replace) ("TR")	35,840	\$	300	\$	338,600	\$ 11,090,600
E. Roseville Viaduct	258,416	\$	250	\$	553,395	\$ 65,157,400
Miners Ravine Bridge (Widen) ("E5")	6,665	\$	300	\$	14,085	\$ 2,013,600

SUBTOTAL STRUCTURES ITEMS	\$ 184,551,200
(Sum of Total Cost for Structures)	

Railroad Related Costs:

Flagging (Day): 250 Days @ \$1000/Day	\$ 250,000.00	\$ 250,000
Flagging (Night): 250 Nights @ \$2000/Night	\$ 500,000.00	\$ 500,000
	SUBTOTAL RAILROAD ITEMS	\$ 750,000

TOTAL STRUCTURES ITEMS	\$ 185,301,200
(Sum of Structures Items plus Railroad Items)	

Estimate Prepared By <u>Jennifer Elwood, PE</u>	<u>916-286-0267</u>	<u>7-16-2014</u>
(Print Name)	Phone #	Date

NOTE: If appropriate, attach additional pages and backup.

