

## Memorandum

*Flex your power!  
Be energy efficient!*

To: FUK NYAN KURNIAWAN  
Program Advisor

Date: September 24, 2011  
File: 04-SCL-9-PM 3.6 & 11.4  
04-SCL-680-PM M8.4  
201.112  
Project ID 04-12000162  
(EA 04-1A340K)  
Bridge Rail Upgrade

Bridge Rail Upgrade

From: PATRICK K. PANG  
Project Manager

Subject: Project Initiation Document (PID) Refresher

### Background

The Project Scope Summary Report (PSSR) for the above-referenced project was approved on October 31, 2003 and was “refreshed” for cost in November 2007 to program in the 2008 State Highway Operation and Protection Program (SHOPP) but not programmed. This project has been “refreshed” for cost for programming in the 2012 SHOPP.

### Project Scope

This project proposes to replace bridge railing on SR 9 & I-680 in Santa Clara County at 3 locations:

- Location 1: Rte 9 at West Branch Saratoga Creek Bridge (Br. # 37-0073)
- Location 2: Rte 9 at Saratoga Ave. Sep. (9/17) Bridge (Br. # 37-0144)
- Location 3: I-680 at Tularcitos Creek Bridge (Br. # 37-0317)

### Preliminary Project Cost Estimate

- Current project cost estimate is \$ 1.05 M
- RTL cost in September 2014 is \$ 1.18M;
- Mid-year construction cost in August 2015 is \$ 1.20 M.
- District 04 recommended escalation rate of 4% was used for all escalation computations, with 25% contingency.
- APS from DES use 40% as contingency rate.
- Project involves two-lane highway with minimal shoulder width. Higher cost is allocated to address the staging and traffic control issues.

### Attachments:

- (1) Updated Project Schedule
- (2) Updated Preliminary Project Cost Estimate
- (3) Updated Support Cost Estimate
- (4) Updated Right of Way Data Sheet
- (5) Updated Advance Planning Estimate
- (6) Transportation Management Plan
- (7) Update Risk Management Plan

- (8) Update PEAR
- (9) Update Storm Water Data Report.

## Refreshed Schedule ( 9/9/2011) for 1A340K

Refreshed	Oct-11
Naminated/Approval by CTC in the 2012 SHOP	Mar-12
Begin PA&ED	Jul-12
End PA&ED	Jul-13
PS&E	Jul-14
R/W Cert	Jul-14
RTL	Sep-14
Advertisement	Oct-14
Contract (Begin Construction)	Jan-15
Mid-year of construction	Feb-15
Contract Acceptance	Mar-15
End Project	Jun-15

Number of construction day is updated by HQ on 9/9/2011

# PRELIMINARY PROJECT COST ESTIMATE SUMMARY

District-County-Route 04-SCL-9 & 680

PM 3.6 & 11.4 (9); M8.4 (680)

EA 1A340K

Program Code 201-112

PROJECT DESCRIPTION: Bridge Rail Replacement.

Limits: On SR-9 and I-680 in the Santa Clara County

Proposed Improvement (Scope) Replace the Railings

## SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$ <u>726,000</u>
TOTAL STRUCTURE ITEMS	\$ <u>318,000</u>
SUBTOTAL CONSTRUCTION COSTS	\$ _____
TOTAL RIGHT OF WAY ITEMS	\$ <u>5,000</u>
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$ <u>1,050,000</u>

District-County-Route \_\_\_\_\_  
 PM \_\_\_\_\_  
 EA 1A340K

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	_____	_____	\$ _____	\$ _____	
Imported Borrow	_____	_____	\$ _____	\$ _____	
Clearing & Grubbing	_____	_____	\$ _____	\$ _____	
Develop Water Supply	_____	_____	\$ _____	\$ _____	
Top Soil Reapplication	_____	_____	\$ _____	\$ _____	
Stepped Slopes and Slope Rounding (Contour Grading)	_____	_____	\$ _____	\$ _____	
			\$ _____	\$ _____	
			Subtotal Earthwork		\$ _____

<u>Section 2 Pavement Structural Section*</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
PCC Pavement ( ___ Depth)	_____	_____	\$ _____	\$ _____	
PCC Pavement ( ___ Depth)	_____	_____	\$ _____	\$ _____	
Asphalt Concrete	_____	_____	\$ _____	\$ _____	
Lean Concrete Base	_____	_____	\$ _____	\$ _____	
Cement-Treated Base	_____	_____	\$ _____	\$ _____	
Aggregate Base	_____	_____	\$ _____	\$ _____	
Treated Permeable Base	_____	_____	\$ _____	\$ _____	
Aggregate Sub base	_____	_____	\$ _____	\$ _____	
Pavement Reinforcing Fabric	_____	_____	\$ _____	\$ _____	
Edge Drains	_____	_____	\$ _____	\$ _____	
			\$ _____	\$ _____	
			Subtotal Pavement Structural Section		\$ _____

<u>Section 3 Drainage</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Large Drainage Facilities	_____	_____	\$ _____	\$ _____	
Storm Drains	_____	_____	\$ _____	\$ _____	
Pumping Plants	_____	_____	\$ _____	\$ _____	
Project Drainage (X-Drains, overside, etc.)	_____	_____	\$ _____	\$ _____	
			\$ _____	\$ _____	
			Subtotal Drainage		\$ _____

\*Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date when tests were performed.

NOTE: Extra lines are provided for items not listed; use additional lines as appropriate.

District-County-Route \_\_\_\_\_  
PM \_\_\_\_\_  
EA \_\_\_\_\_

<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	_____	_____	\$ _____	\$ _____	
Noise Barriers	_____	_____	\$ _____	\$ _____	
Barriers and Guardrails	_____	_____	\$ _____	\$ _____	
Equipment/Animal Passes	_____	_____	\$ _____	\$ _____	
Water Pollution Control	1	LS	\$ _____	\$ <u>8,100</u>	
Hazardous Waste Investigation and/or Mitigation Work	1	LS	\$ _____	\$ <u>17,400</u>	
Environmental Compliance	1	LS	\$ _____	\$ <u>11,600</u>	
Resident Engineer Office Space	_____	_____	\$ _____	\$ _____	
_____	_____	_____	\$ _____	\$ _____	
			Subtotal Specialty Items		\$ <u>37,100</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	_____	_____	\$ _____	\$ _____	
COZEEP	_____	_____	\$ _____	\$ <u>50,000</u>	
Traffic Signals (CMS)	1	LS	\$ _____	\$ <u>25,000</u>	
Public Information	_____	_____	\$ _____	\$ <u>70,000</u>	
Roadside Signs	1	LS	\$ _____	\$ <u>8,000</u>	
Transportation Control Plan	1	LS	\$ _____	\$ <u>100,000</u>	
Staging	1	LS	\$ _____	\$ <u>165,000</u>	
			Subtotal Traffic Items		\$ <u>418,000</u>

NOTE: Extra lines are provided for items not listed; use additional lines as appropriate.

District-County-Route \_\_\_\_\_  
 PM \_\_\_\_\_  
 EA \_\_\_\_\_

<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	_____	_____	\$ _____	\$ _____	
Replacement Planting	_____	_____	\$ _____	\$ _____	
Irrigation Modification	_____	_____	\$ _____	\$ _____	
Relocate Existing Irrigation Facilities	_____	_____	\$ _____	\$ _____	
Irrigation Crossovers	_____	_____	\$ _____	\$ _____	
_____	_____	_____	\$ _____	\$ _____	
Subtotal Planting and Irrigation Section					\$ _____

<u>Section 7: Roadside Management and Safety Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Vegetation Control Treatments	_____	_____	\$ _____	\$ _____	
Gore Area Pavement	_____	_____	\$ _____	\$ _____	
Pavement beyond the gore area	_____	_____	\$ _____	\$ _____	
Miscellaneous Paving	_____	_____	\$ _____	\$ _____	
Erosion Control					
Slope Protection	_____	_____	\$ _____	\$ _____	
Side Slopes/Embankment Slopes	_____	_____	\$ _____	\$ _____	
Maintenance Vehicle Pull outs					
Off-freeway Access (gates, stairways, etc.)					
Roadside Facilities (Vista Points, Transit, Park and Ride, etc.)	_____	_____	\$ _____	\$ _____	
Relocating roadside facilities/features	_____	_____	\$ _____	\$ _____	
_____	_____	_____	\$ _____	\$ _____	
Subtotal Roadside Management and Safety Section					\$ _____

TOTAL SECTIONS: 1 thru 7 \$ 455100

NOTE: Extra lines are provided for items not listed; use additional lines as appropriate.

District-County-Route \_\_\_\_\_  
PM \_\_\_\_\_  
EA \_\_\_\_\_

Section 8: Minor Items

\$ 455100 x (10%) = \$ 45510  
(Subtotal Sections 1 thru 7)

TOTAL MINOR ITEMS \$ 45510

Section 9: Roadway Mobilization

\$ 500610 x (10%) = \$ 50061  
(Subtotal Sections 1 thru 8)

TOTAL ROADWAY MOBILIZATION \$ 50061

Section 10 Roadway Additions

Supplemental Work

\$ 500610 x (10%) = \$ 50061  
(Subtotal Sections 1 thru 8)

Contingencies

\$ 500610 x (25%) = \$ 125153  
(Subtotal Sections 1 thru 8)

TOTAL ROADWAY ADDITIONS \$ 175214

TOTAL ROADWAY ITEMS \$ 726000  
(Subtotal Sections 1 thru 10)

Estimate Prepared By \_\_\_\_\_ Phone# \_\_\_\_\_ Date \_\_\_\_\_  
(Print Name)

Estimate Checked By \_\_\_\_\_ Phone# \_\_\_\_\_ Date \_\_\_\_\_  
(Print Name)

\*\* Use appropriate percentage per Chapter 20.

District-County-Route \_\_\_\_\_  
 PM \_\_\_\_\_  
 EA \_\_\_\_\_

II. STRUCTURES ITEMS

	Structure (1)	Structure (2)	Structure (3)
Bridge Name	<u>37-0137</u>	<u>37-0144</u>	<u>37-0073</u>
Structure Type	_____	_____	_____
Width (out to out) - (ft)	_____	_____	_____
Span Lengths - (ft)	_____	_____	_____
Total Area - (ft <sup>2</sup> )	_____	_____	_____
Footing Type (pile/spread)	_____	_____	_____
Cost Per ft <sup>2</sup> (incl. 10% mobilization and 20% contingency)	_____	_____	_____
Estimated cost	<u>6,000</u>	<u>264,000</u>	<u>48,000</u>
Total Cost for Structure			

SUBTOTAL STRUCTURES ITEMS      \$ 318,000  
 (Sum of Total Cost for Structures)

Railroad Related Costs:	_____	_____	_____	\$ _____
	_____	_____	_____	\$ _____
	_____	_____	_____	\$ _____

SUBTOTAL RAILROAD ITEMS      \$ \_\_\_\_\_

TOTAL STRUCTURES ITEMS      \$ 318,000  
 (Sum of Structures Items plus Railroad Items)

COMMENTS:

Estimate Prepared By \_\_\_\_\_ Phone# \_\_\_\_\_ Date \_\_\_\_\_  
 (Print Name)

NOTE: If appropriate, attach additional pages and backup.

Page No. \_\_\_\_ of \_\_\_\_

District-County-Route \_\_\_\_\_  
PM \_\_\_\_\_  
EA \_\_\_\_\_

III. RIGHT OF WAY ITEMS

ESCALATED VALUE

- A. Acquisition, including excess lands, damages to remainder(s) and Goodwill \$ \_\_\_\_\_
- B. Utility Relocation (State share) \$ 5,000
- C. Relocation Assistance \$ \_\_\_\_\_
- D. Clearance/Demolition \$ \_\_\_\_\_
- E. Title and Escrow Fees \$ \_\_\_\_\_

TOTAL RIGHT OF WAY ITEMS \$ \_\_\_\_\_  
(Escalated Value)

Anticipated Date of Right of Way Certification \$ \_\_\_\_\_ 5,000  
(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 \_\_\_\_\_ Phone# \_\_\_\_\_ Date \_\_\_\_\_  
(Print Name)

NOTE: If appropriate, attach additional pages and backup.

SUPPORT COST for 1A340K

Approved Refresher (Sept. 2011)

PA/ED	450,000
DES	540,000
ROW	54,000
CONSTRUCTION	126,000
TOTAL	1,170,000

T0: Office of Advance Planning – PSR II

Date 9/9/2011  
Dist 4 Co SCI Rte 9, 680  
PM 3.6 & 11.4, M8.4

Attention: Robert Blanco  
Branch Chief

Project ID: NO EFIS# (EA 1A340K)

From: ENID LAU  
Right of Way Resource Manager

Bridge Rail Replacement

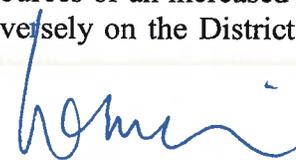
**D.S. #5994**  
Updated

Subject: Current Estimated Right of Way Costs

We have completed an estimate of the right of way costs for the above referenced project based on maps we received from you on August 29, 2011 and the following assumptions and limiting conditions.

- 1. The mapping did not provide sufficient detail to determine the limits of the right of way required.
- 2. The transportation facilities have not been sufficiently designed so our estimator could determine the damages to any of the remainder parcels affected by the project.
- 3. Additional right of way requirements are anticipated, but are not defined due to the preliminary nature of the early design requirements.
- 4. This estimate does not include \$ \_\_\_\_\_ right of way costs previously incurred on the project, which may affect the total project right of way costs for programming purposes.
- 5. We have determined there are no right of way functional involvements in the proposed project at this time, as designed.

Right of Way Lead Time will require a minimum of 6 months after we begin receiving final right of way requirements (PYPSCAN node No. 224), necessary environmental clearance has been obtained, and freeway agreements have been approved. From the date of receipt of final right of way requirements (PYPSCAN node No. 265), we will require a minimum of 4 months prior to the date of certification of the project. Shorter lead times will require either more right of way resources or an increased number of condemnation suits to be filed. Either of these actions may reflect adversely on the District's other programs or our public image generally.



Right of Way Resource Manager

Attachments:

- Right of Way Data Sheet – Page One (always required)
- Right of Way Data Sheet – All Pages (required when interest in real property is being acquired)
- Utility Information Sheet
- Railroad Information Sheet

**RIGHT OF WAY DATA SHEET**

TO: Office of Advance Planning  
 PSR - II

Date 9/1/2011 D.S. # 5994  
 Dist. 04 Co. SCI Rte 9/680 PM Var  
 EA 04-1A340K

ATTN: ROBERT BLANCO

Project Description: Bridge Rail Replacement

SUBJECT: Right of Way Data - Alternate No. \_\_\_\_\_

1. Right of Way Cost Estimate:

	Current Value (Future Use)	Escalation Rate	Escalated Value
A. Acquisition, including Excess Lands, Damages, and Goodwill	<u>\$0.00</u>	%	<u>\$0.00</u>
Project Permit Fees			<u>\$0.00</u>
Grantor's Appraisal Cost			<u>\$0.00</u>
B. Utility Relocation (State Share)	<u>\$5,000.00</u>	%	<u>\$5,000.00</u>
C. Railroad (from page 6)			<u>\$0.00</u>
D. Relocation Assistance	<u>\$0.00</u>	%	<u>\$0.00</u>
E. Clearance Demolition	<u>\$0.00</u>	%	<u>\$0.00</u>
F. Title and Escrow Fees	<u>\$0.00</u>	%	<u>\$0.00</u>
G. <u>TOTAL ESCALATED VALUE</u>			<u>\$5,000.00</u>
H. Construction Contract Work	<u>\$0.00</u>		

2. Anticipated Date of Right of Way Certification \_\_\_\_\_

3. Parcel Data:

Type	Dual/Appr	Utilities	RR Involvements	
X _____		U4-1 _____	None	<u>X</u>
A _____		-2 _____	C&M Agrmt	_____
B _____	_____	-3 _____	Svc Cont.	_____
C _____	_____	-4 _____	Design	_____
D _____	_____	U5-7 <u>2</u>	Const.	_____
E <u>XXXX</u>	_____	-8 _____	Lic/RE/Clauses	_____
F <u>XXXX</u>	_____	-9 _____	Misc R/W Work	
			RAP Displ	<u>0</u>
			Clear Demo	<u>0</u>
			Const. Permits	<u>0</u>
			Condemnation	<u>0</u>
Total	<u>0</u>			

Areas: Right of Way

Enter PMCS Screens

Enter AGRE Screen (Railroad Data Only)

No. Excess Parcels \_\_\_\_\_

By \_\_\_\_\_

Excess \_\_\_\_\_

By \_\_\_\_\_

7/1/11

[Signature]

4. Are there any major items of construction contract work?  
Yes  No  (If yes, explain)
5. Provide a general description of the right of way and excess lands required(zoning, use, major improvements critical or sensitive parcels, etc.).  
No right of way required.
6. Is there an effect on assessed valuation? (If yes explain)  
Yes  Not Significant  No
7. Are utility facilities or rights of way affected? Yes  No   
If yes, attach Utility Information Sheet Exhibit 01-01-05)
8. Are railroad facilities or rights of way affected? Yes  No   
If yes, attach Railroad Information Sheet Exhibit 01-01-06)
9. Were any previously unidentified sites with hazardous waste and/or material found?  
Yes  None evident   
(If yes, attach memorandum per Procedural Handbook Volume 1, Section 101.011)
10. Are RAP displacements required? Yes  No   
(If yes, provide the following information)
- No. of single family \_\_\_\_\_ No. of business/non profit \_\_\_\_\_  
No. of multi-family \_\_\_\_\_ No. of farms \_\_\_\_\_
- Based on Draft / Final Relocation Impact Statement / Study dated \_\_\_\_\_, it is anticipated that sufficient replacement housing will / will not be available without Last Resort Housing.
11. Are material borrow and / or disposal sites required? Yes  No   
(If yes, explain)
12. Are there potential relinquishments / abandonments? Yes  No   
(If yes, explain)
13. Are there any existing and/or potential Airspace sites? Yes  No   
(If yes, explain)

14. Are there Environmental Mitigation costs? Yes  No   
(If yes, explain)

15. Indicate the anticipated Right of Way schedule and lead time requirements. (Discuss if District proposes less than PMCS lead time and / or if significant pressures for project advancement are anticipated.)

PYPSCAN lead time (from Regular R/W to project certification) 6 months.

16. Is it anticipated that all Right of Way work be performed by CALTRANS staff?  
Yes  No  (If no, discuss)

**Assumptions and Limiting Conditions**

- This data sheet was completed without a hazardous waste/materials report.
- Information on this data sheet was based on maps provided by Robert Blanco on 8/25/2011

Evaluation Prepared By: Renata Frey

Right of Way: Name Renata Frey Date 9/1/11

Railroad: Name Patryc Date 9-1-11

Utilities: Name [Signature] Date 9-1-11

Recommended for Approval:

[Signature]  
Right of Way Capital Cost Coordinator

I have personally reviewed this Right of Way Data Sheet and all supporting information. It is my opinion that the probable Highest and Best Use, estimated values, escalation rates, and assumptions are reasonable and proper subject to the limiting conditions set fourth, and find this Data Sheet complete and current.

[Signature]  
for Chief, R/W Appraisal Services  
9/8/11  
Date

cc: Program Manager  
Project Manger

UTILITY INFORMATION SHEET

1. Utility owners located within project limits:  
AT&T, PG&E
  
2. Facilities potentially impacted by project (if known, include Owners(s) & facility type(s)):
  
3. Anticipated Workload:  
 Utility Verification required  
 Positive Identification  
 Utility Relocation  
 Other (Specify)
  
4. Additional information concerning anticipated utility involvements (include limiting conditions and a narrative addressing likelihood that conflicts will occur);

\_\_\_\_\_ Involves possible relocation of electric transmission facilities  
(If X'd, Data sheet should be forwarded to environmental)

5. PMCS input information

- U4-1 \_\_\_\_\_ Owner Expense Involvements
- U4-2 \_\_\_\_\_ State Expense Involvements  
(Conventional, No Fed Aid)
- U4-3 \_\_\_\_\_ State Expense Involvements  
(Freeway, No Fed Aid)
- U4-4 \_\_\_\_\_ State Expense Involvements  
(Conventional or Freeway, Fed Aid)
- U5-7 2 Verifications - without involvements
- U5-8 \_\_\_\_\_ Verifications - 50% involvements
- U5-9 \_\_\_\_\_ Verifications resulting in involvements

NOTE: The sum of U-4's must equal the sum of 1/2 of the U5-8's and all of the U5-9's.

ESTIMATED STATE SHARE OF COSTS \$ 5000

Prepared by: Nick Psioi

  
\_\_\_\_\_  
Right of Way Utility Coordinator

9-1-11  
\_\_\_\_\_  
Date

## Memorandum

*Flex your power!*

*Be energy*

*efficient!*

To: CHOON SHIH  
PROJECT ENGINEER  
District 4

Date: September 9, 2011

File: 04-SLC-RTE 9/680-PM  
EA 04-4A340K  
Project ID 0412000162 K  
ON ROUTE 9 AND ROUTE 680  
BR.NO. 37-0137  
BR.NO. 37-0144  
BR.NO. 37-0073

From: GORDON DANKE  
Bridge Design Branch 9  
Office of Bridge Design West  
Structure Design  
Division of Engineering Services MS 9-4/8I

Subject: UPDATED ADVANCED PLANNING STUDY

Attached are the updated cost estimates for the Tularcitos Creek, Saratoga Avenue Separation and West Branch Saratoga Creek Bridge Rail Replacement/Upgrade.

The estimated construction cost, including 10% time-related overhead, 10% mobilization and 40% contingencies, is as follows:

Structure Name	Br. No.	Estimated Cost
Tularcitos Creek	37-0137	\$ 6,000.00
Saratoga Avenue Separation	37-0144	\$ 264,000.00
West Branch Saratoga Creek Bridge	37-0073	\$ 48,000.00
Total Combined Estimated Cost		\$ 318,000.00

Working days for Tularcitos Creek = 2

Working days for Saratoga Avenue Separation = 10

Working days for West Branch Saratoga Creek Bridge = 2

**PLEASE FORWARD A COPY OF GENERAL PLANS TO ANY INTERESTED FUNCTIONAL UNIT IN THE DISTRICT.**

If you have any questions or if you need additional information regarding this memo, please contact Phil Lutz at 916-227-8514 or John O'Brien at 916-227-1957.

Attachments

c: LAURA LUCE, Status & Tracking Branch  
CRAIG WHITTEN, Specification Branch Chief MS 9-2/2H  
JOHN STANTON, Estimates Branch Chief MS 9-2/2H

Sept. 2, 2011

Page 2

OFELIA ALCANTARA, Bridge Design Office Chief MS 9-4/11G

JOHN BABCOCK, Structure Construction Assistant Deputy Division Chief MS 9-2/11H

STEVE JAQUES, Preliminary Investigations Branch Chief MS 9-1/1G

PETE WHITFIELD, Maintenance and Investigations, North

KEVIN WALL, HA21 Program Coordinator MS 9-1/9I

ROBERT BLANCO, Branch Chief, Project Study Report II-Office of Advanced Planning D4

PID ESTIMATE

Revised - August 30, 2011

RCVD BY: RWP

IN EST: 9/7/2011  
OUT EST: 9/6/2011

BRIDGE: SARATOGA AVE. SEP. (9/17) BR. No.: 37-0144  
TYPE: CHAIN LINK FENCE REPLACEMENT  
CU: 04-000  
EA: 1A340K

DISTRICT: 04  
RTE: 9  
CO: SCL  
PM: 5.80

LENGTH: WIDTH: AREA (SF)=  
DESIGN SECTION: 09  
# OF STRUCTURES IN PROJECT : 03 EST. NO. 1  
PRICES BY : LV COST INDEX: 297  
PRICES CHECKED BY : DATE: 9/6/2011  
QUANTITIES BY: TIM POWELL DATE: 3/4/2003

	CONTRACT ITEMS	TYPE	UNIT	QUANTITY	PRICE	AMOUNT
1	REMOVE CONCRETE BARRIER, SIDEWALK, ETC.		LF	433	\$100.00	\$43,300.00
2	CONCRETE BARRIER	25	LF	217	\$150.00	\$32,550.00
3	CONCRETE BARRIER	26	LF	217	\$160.00	\$34,720.00
4	CHAIN LINK RAILING	6	LF	433	\$100.00	\$43,300.00
5						
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30						

SUBTOTAL	\$153,870
TIME RELATED OVERHEAD	\$15,387
MOBILIZATION (@ 10 %)	\$18,806
SUBTOTAL BRIDGE ITEMS	\$188,063
CONTINGENCIES @ 40%	\$75,225
BRIDGE TOTAL COST	\$263,289
COST PER SQ. FOOT	
BRIDGE REMOVAL (CONTINGENCIES INCL.)	
WORK BY RAILROAD OR UTILITY FORCES	
GRAND TOTAL	\$263,289
BUDGET ESTIMATE AS OF 9/6/11	\$263,000

**ROUTING**

1. DES SECTION
2. OFFICE OF BRIDGE DESIGN - NORTH
3. OFFICE OF BRIDGE DESIGN - CENTRAL
4. OFFICE OF BRIDGE DESIGN - SOUTH
5. OFFICE OF BRIDGE DESIGN - WEST
6. OFFICE OF BRIDGE DESIGN SOUTHERN CALIFORNIA

COMMENTS: Working Days: 10

PID ESTIMATE

Revised - August 30, 2011

RCVD BY: RWP

IN EST: 9/7/2011  
OUT EST: 9/6/2011

BRIDGE: TULARCITOS CREEK BR. No.: 37-0317  
TYPE: CHAIN LINK FENCE REPLACEMENT  
CU: 04-000  
EA: 1A340K

DISTRICT: 04  
RTE: 680  
CO: SCL  
PM: 13.50

LENGTH: \_\_\_\_\_ WIDTH: \_\_\_\_\_ AREA (SF)= \_\_\_\_\_

DESIGN SECTION: 09  
# OF STRUCTURES IN PROJECT : 03 EST. NO. 1  
PRICES BY : LV COST INDEX: 297  
PRICES CHECKED BY : \_\_\_\_\_ DATE: 9/6/2011  
QUANTITIES BY: TIM POWELL DATE: 3/4/2003

	CONTRACT ITEMS	TYPE	UNIT	QUANTITY	PRICE	AMOUNT
1	REMOVE CHAIN LINK FENCE		LF	23	\$50.00	\$1,150.00
2	CHAIN LINK FENCE	CL-1.8	LF	23	\$100.00	\$2,300.00
3						
4						
5						
6						
7						
8						
9						
10						
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SUBTOTAL	\$3,450
TIME RELATED OVERHEAD	\$345
MOBILIZATION (@ 10 %)	\$422
SUBTOTAL BRIDGE ITEMS	\$4,217
CONTINGENCIES @ 40%	\$1,687
BRIDGE TOTAL COST	\$5,903
COST PER SQ. FOOT	
BRIDGE REMOVAL (CONTINGENCIES INCL.)	
WORK BY RAILROAD OR UTILITY FORCES	
GRAND TOTAL	\$5,903
BUDGET ESTIMATE AS OF 9/6/11	\$6,000

**ROUTING**

1. DES SECTION
2. OFFICE OF BRIDGE DESIGN - NORTH
3. OFFICE OF BRIDGE DESIGN - CENTRAL
4. OFFICE OF BRIDGE DESIGN - SOUTH
5. OFFICE OF BRIDGE DESIGN - WEST
6. OFFICE OF BRIDGE DESIGN SOUTHERN CALIFORNIA

COMMENTS: Working Days: 2

X PID ESTIMATE

Revised - August 30, 2011

RCVD BY: RWP

IN EST: 9/7/2011  
OUT EST: 9/6/2011

BRIDGE: WEST BRANCH SARATOGA CREEK  
TYPE: CHAIN LINK FENCE REPLACEMENT  
CU: 04-000  
EA: 1A340K

BR. No.: 37-0073

DISTRICT: 04  
RTE: 9  
CO: SCL  
PM: 5.80

LENGTH: WIDTH: AREA (SF)=

DESIGN SECTION: 09  
# OF STRUCTURES IN PROJECT : 03 EST. NO. 1  
PRICES BY : LV COST INDEX: 297  
PRICES CHECKED BY : DATE: 9/6/2011  
QUANTITIES BY: TIM POWELL DATE: 3/4/2003

	CONTRACT ITEMS	TYPE	UNIT	QUANTITY	PRICE	AMOUNT
1	REMOVE CONCRETE BARRIER		LF	112	\$100.00	\$11,200.00
2	BARRIER RAILING	25	LF	112	\$150.00	\$16,800.00
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SUBTOTAL	\$28,000
TIME RELATED OVERHEAD	\$2,800
MOBILIZATION (@ 10%)	\$3,422
SUBTOTAL BRIDGE ITEMS	\$34,222
CONTINGENCIES @ 40%	\$13,689
BRIDGE TOTAL COST	\$47,911
COST PER SQ. FOOT	
BRIDGE REMOVAL (CONTINGENCIES INCL.)	
WORK BY RAILROAD OR UTILITY FORCES	
GRAND TOTAL	\$47,911
BUDGET ESTIMATE AS OF 9/6/11	\$48,000

**ROUTING**

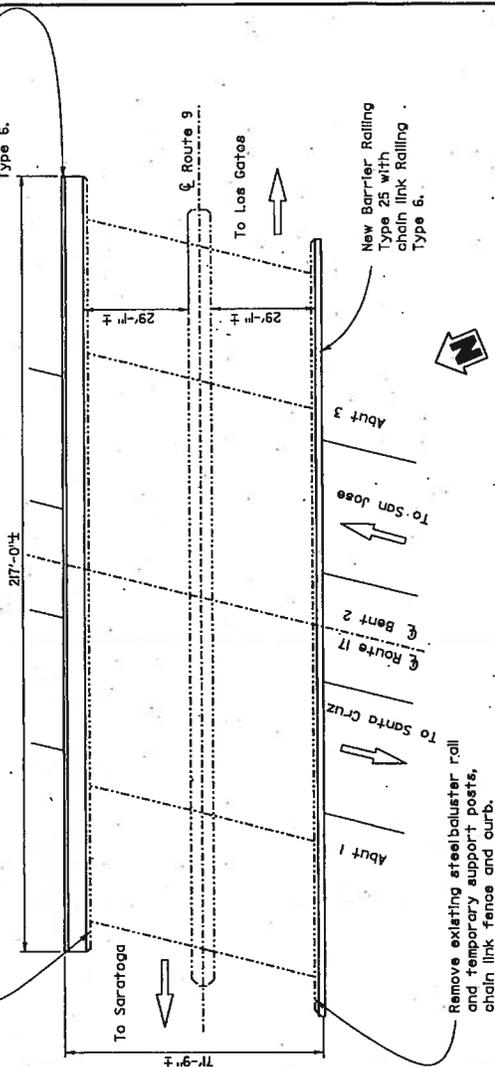
1. DES SECTION
2. OFFICE OF BRIDGE DESIGN - NORTH
3. OFFICE OF BRIDGE DESIGN - CENTRAL
4. OFFICE OF BRIDGE DESIGN - SOUTH
5. OFFICE OF BRIDGE DESIGN - WEST
6. OFFICE OF BRIDGE DESIGN SOUTHERN CALIFORNIA

COMMENTS: Working Days: 2

DIST	COUNTY	ROUTE	POST MILE
04	SCL	9/680	Varies

Remove existing steelbaluster rail and temporary support posts, chain link fence curb and sidewalk.

New Barrier Railing Type 26 with chain link Railing Type 6.

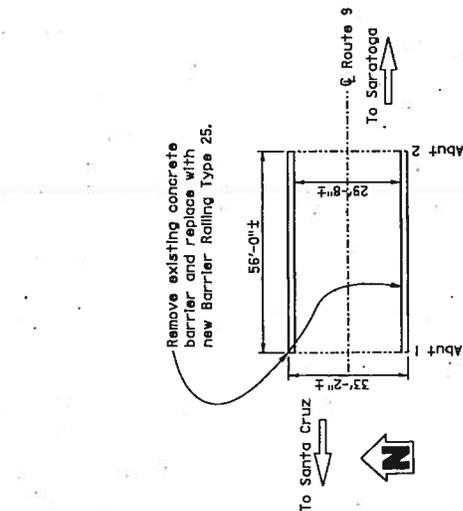


**SARATOGA AVE. SEP (9/17)**

BRIDGE NO. 37-0144, Rte. 9, PM 11.4  
1/8" = 1'-0"

NOTES:

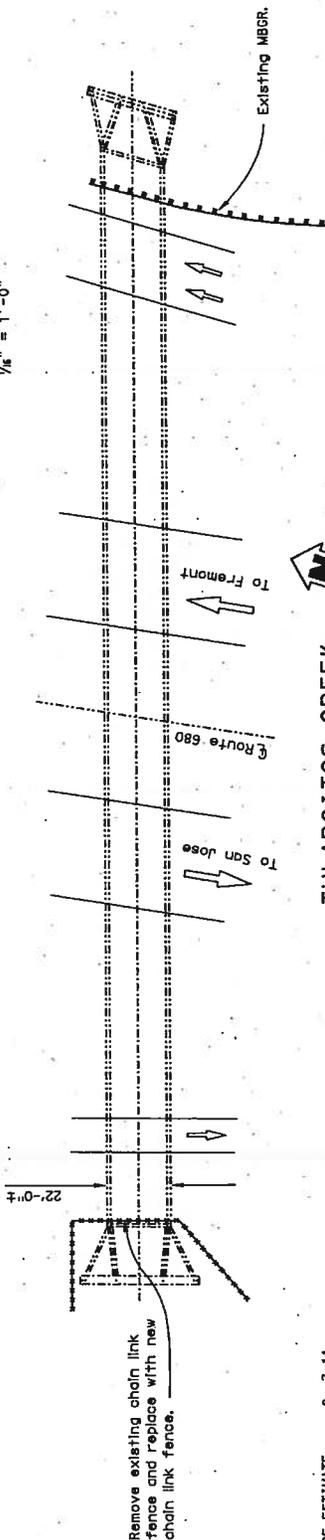
..... Indicates existing.



**WEST BRANCH SARATOGA CREEK**

BRIDGE NO. 37-0073, Rte. 9 PM 3.6  
1/8" = 1'-0"

Remove existing concrete barrier and replace with new Barrier Railing Type 25.



**TULARCITOS CREEK**

BRIDGE NO. 37-0317, Rte. 680, PM MB.4  
1" = 20"

DATE OF ESTIMATE 9-7-11

COST, INCLUDING  
UTILIZATION &  
40% CONTINGENCY = \$318,000.00

TOTAL COST = \$318,000.00

DESIGNED BY: L. Powell	DATE 04-03	STRUCTURE DESIGN BRANCH	CONTRACT NO.: EA 04-1A340K
CHECKED BY: J. O'Brien	DATE 09-09-11	<b>9</b>	PLANNING STUDY
APPROVED X	DATE 09-09-11		BRIDGE RAIL REPLACEMENT
BRIDGE NO. Varies		UNIT: 3594	BRIDGE NO. Varies
SCALE: As Shown		PROJECT NO. & PHASE: 0412000162 K	

# Memorandum

To: Barry Loo  
District 4 Traffic Manager

Date: 9/2/2011

Attn: Shein C Lin

From: Robert Blanco, District Branch Chief  
Office of Advance Planning, PSR II

Subject: Request for Transportation Management Plan Data Sheet.

## Project Data

PROJECT MANAGER (Name) Patrick K. Pang	(Calnet#) (510) 286-5566
PROJECT ENGINEER (Name) Frank Shih	(Calnet#) (510) 622-1666
DIST-EA: 1A340K	PROGRAM (HB1, HE11, etc.): Bridge Reha. (201.112)
PROJECT COMMON NAME Bridge Rail Replacement	
CO-RTE-PM (KP): 1. West Branch Saratoga Creek Bridge (Br. # 37-0073): SCL/9/3.6 2. Saratoga Ave. Sep.(9/17) Bridge (Br. # 37-0144): SCL/9/11.4 3. Tularcitos Creek Bridge (Br. # 37-0317): SCL/680/M8.4	
LEGAL DESCRIPTION:	
DETAILED WORK DESCRIPTION: Install new bridge railing on three bridges	
CONSTRUCTION COST ESTIMATE: 0.55 millions	
PROJECT PHASE: PSSR refresher	PSSR <input type="checkbox"/> PR <input type="checkbox"/> PS&E <input type="checkbox"/> %

## Traffic Impact Description

- A) The Project includes the following:  
(Check applicable type of facility closures)
- Highway or freeway lanes
  - Highway or freeway shoulders
  - Freeway connectors
  - Freeway off-ramps
  - Freeway on-ramps
  - Local streets

- B) Major operations requiring traffic control and working days for each

<u>Operation</u>	<u># of working days</u>
<input type="checkbox"/> Clearing and grubbing	_____



# TMP Data Sheet (cont.)

4) Construction Strategies

- a. Lane Closure Chart
- b. Reversible Lanes
- c. Total Facility Closure
- d. Contra Flow
- e. Truck Traffic Restrictions \$ \_\_\_\_\_
- f. Reduced Speed Zone \$ \_\_\_\_\_
- g. Connector and Ramp Closures
- h. Incentive and Disincentive \$ \_\_\_\_\_
- i. Moveable Barrier \$ \_\_\_\_\_
- \_\_\_\_\_ \$ \_\_\_\_\_
- k. Others \$ \_\_\_\_\_

5) Demand Management

- a. HOV Lanes/Ramps (New or Convert) \$ \_\_\_\_\_
- b. Park and Ride Lots \$ \_\_\_\_\_
- c. Rideshare Incentives \$ \_\_\_\_\_
- d. Variable Work Hours
- e. Telecommute
- f. Ramp Metering (Temporary Installation) \$ \_\_\_\_\_
- g. Ramp Metering (Modify Existing) \$ \_\_\_\_\_
- h. Others \$ \_\_\_\_\_

6) Alternate Route Strategies

- a. Add Capacity to Freeway Connector \$ \_\_\_\_\_
- b. Street Improvement (widening, traffic signal...  
etc) \$ \_\_\_\_\_
- c. Traffic Control Officers \$ \_\_\_\_\_
- d. Parking Restrictions
- e. Others \$ \_\_\_\_\_

7) Other Strategies

- a. Application of New Technology \$ \_\_\_\_\_
- e. Others \$ \_\_\_\_\_

**TOTAL ESTIMATED COST OF TMP ELEMENTS = \$63,000.00**

PREPARED BY Marisa M-Kleiber DATE 9/7/2011

APPROVAL RECOMMENDED BY Shein Lin DATE 9/7/2011

# Risk Management Plan

DIST- EA 04-1A340K		Project Name:		Project Manager:		Date Created:									
		Replace Bridge Railings SCL - 9 - 3.6&11.4; SCL-680 MB.4		Patrick K. Pang Telephone: 510-286-5566		9/9/2011									
ITEM	ID #	Status	Threat/ Opportunity	Category	Date Risk Identified	Risk Description	Root Causes	Primary Objective	Overall Risk Rating	Cost/Time Impact Value	Risk Owner	Risk Trigger	Strategy	Response Actions w/ Pros & Cons	WBS Item
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(p)
1	04-1A340K-01	Active	Threat	ENV	09/09/11	Biologically sensitive area	Design	TIME	Probability 1=Very Low (1-9%) Low Impact 1=Very Low	Cost/Time Impact Value	PM	Construction	MITIGATE	mitigation	235 MITIGATE ENVIRONMENTAL IMPACTS AND CLEAN UP HAZARDOUS WASTE
2	04-1A340K-02	Active	Threat	ORG	09/09/11	Project not programmed in the next SHOPP	PM	COST	Probability 3=Med (20-39%) Med Impact 4=Med	Cost/Time Impact Value	PM	Project not a priority	ACCEPT	Project cost estimate should be refreshed	165 PERFORM ENVIRONMENTAL STUDIES AND PREPARE DRAFT ENVIRONMENTAL DOCUMENT
3	04-1A340K-03	Active	Threat	CON	09/09/11	Community rejection to lane closure	Design	SCOPE	Probability 2=Low (10-19%) Low Impact 2=Low	Cost/Time Impact Value	PM	Conflict with community	MITIGATE	change work schedule	230 PREPARE DRAFT PS&E



## PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT

### ***Project Information***

District 04	County SCL	Route 9 9 680	PM 3.6 11.4 M8.4	EA 1A340K
Project Title: Bridge Rail Replacement				
Project Manager Patrick Pang			Phone # 510.286.5080	
Project Engineer Choon -Jiaw Shih			Phone # 510.622.1666	
Environmental Office Chief/Manager Melanie Brent			Phone # 510.286.5231	
PEAR Preparer Peter Frey			Phone # 510.622.8835	

### ***Project Description***

#### **Purpose and Need**

The purpose of the project is to replace corroded and weakened bridge rails in three locations in Santa Clara County on Route 9 and I-680. The project is needed to bring bridge railings up to current State standards, and to enhance public safety by preventing errant vehicles from leaving to structures.

#### **Description of work**

Replace bridge railings on three bridges on Route 9 and I-680 in Santa Clara County for Bridge numbers 37-0037, 37-0144, 37-0317.

#### **Alternatives**

The build alternative includes the elements described above. The no build alternative leaves the existing facility unchanged.

**Anticipated Environmental Approval**

CEQA		NEPA	
<b>Environmental Determination</b>			
Statutory Exemption	<input type="checkbox"/>		
Categorical Exemption	<input checked="" type="checkbox"/>	Categorical Exclusion	<input checked="" type="checkbox"/>
<b>Environmental Document</b>			
Initial Study or Focused Initial Study with proposed Negative Declaration (ND) or Mitigated ND	<input type="checkbox"/>	Routine Environmental Assessment with proposed Finding of No Significant Impact	<input type="checkbox"/>
		Complex Environmental Assessment with proposed Finding of No Significant Impact	<input type="checkbox"/>
Environmental Impact Report	<input type="checkbox"/>	Environmental Impact Statement	<input type="checkbox"/>
CEQA Lead Agency (if determined): The California Department of Transportation (Caltrans) is the lead CEQA Agency for the project. FHWA assigned, and Caltrans has assumed, all of the United States Department of Transportation (USDOT) Secretary's responsibilities under NEPA.			
Estimated length of time (months) to obtain environmental approval:			6
Estimated person hours to complete identified tasks:			1425

**PEAR Technical Summaries**

**Community Impacts:** The proposed project will not result in adverse impacts on population growth/sprawl, local economy, municipal or community services, utility services, community character, or existing or proposed land use. There are no Title VI issues, adverse impacts to minority and low-income populations expected.

**Visual/Aesthetics:** The proposed project is not expected to adversely affect any scenic or visual resources.

**Cultural Resources:** Due to the presence of a previously recorded resource adjacent to the one of the proposed rail replacement locations (Br. #37-003, this resource needs to be rerecorded . An ESA will need to be established, therefore, an ESA action plan will be required, and an archaeology survey will accompany the re-recording of previously recorded site to establish that no historic properties are present. Cover document will be an HPSR in order to provide notice and summary to SHPO.

**Water Quality and Storm Water Runoff:** Construction will adhere to the Department Statewide National Pollutant Discharge Elimination System (NPDES) Permit. To comply with this permit, a Water Pollution Control Program (WPCP) must be developed and implemented, per Standard Special Provision (SSP) 07-340. Pursuant to the Department Stormwater Management Plan (SWMP), temporary and permanent Best Management Practices (BMPs) shall be considered and incorporated, as necessary, using Best Available Technology (BAT) to the Maximum Extent Practicable (MEP). Such BMPs are recommended, in order to minimize, or prevent, any potential increased impact to existing water quality

**Hazardous Waste/Materials:** The project Structures will need to be tested for asbestos. Environmental Engineering will conduct an Asbestos Survey during the design phase and provide appropriate hazardous waste specifications.

**Air Quality:** The Project is exempt from the requirement of air quality conformity determination. An air quality study is not required.

**Noise and Vibration:** The Project has no traffic noise impacts. A noise study will not be required.

**Biological Environment:**

1) West Branch Saratoga Creek Bridge # 37-0073 (SCL-9-5.8)

*Site Description/ Habitat:*

This bridge is located in the Eastern Santa Cruz Mountains spans Saratoga Creek. Saratoga Creek is a perennial creek that eventually drains into the Guadalupe Slough and then eventually drains into the Southern San Francisco Bay. The surrounding area is riparian influenced redwood forest consisting of redwood (*Sequoia sempervirens*), tan oak (*Lithocarpus densiflorus*), big leaf maple (*Acer macrphyllum*) with an understory of blackberry (*Rubus ursinus*) and sword fern (*Polystichum munitum*). The bridge structure itself may provide habitat for numerous species of birds and bats.

*Flora/Fauna:*

The US Fish and Wildlife Service and California Department of Fish and Game's California Natural Diversity Database (CNDDB) list numerous threatened/endangered species that have the potential to occur in the Cupertino and Castle Rock ridge U.S. Geological Survey Quadrangles, which covers the project area (see the attached species lists). Included in this list are the California red-legged frog (*Rana aurora draytonii*), the Marbled Murrelet (*Brachyrhampus marmoratus*) and Steelhead (*Oncorhynchus mykiss*).

The Calfish database indicates that a total barrier to fish passage exists downstream of the project site, however the creek downstream of the project is within steelhead range.

Numerous species of bats use bridges for roosting habitat. Many of these bats are Species of Special Concern. A site assessment will need to be conducted to determine if these bridge structures are being used by bats as roosting habitat.

The Federal Migratory Bird Treaty Act (16 U.S.C. 703 et seq.), Title 50 Code of Federal Regulations part 10, and California Fish and Game Code Sections 3503,3513 and 3800 protect migratory birds, occupied nests and their eggs. Birds nest in a variety of places which include trees, shrubs, bridges and other man-made structures and on the ground.

*Fish Passage:*

The Calfish database indicates that A Fish Passage Assessment is needed at this crossing.

*Waters/Wetlands:*

The bridge spans a perennial creek. This creek is a jurisdictional water of the US regulated by the US Army Corp of Engineers (USACE). It is likely there are associated jurisdictional wetlands present as well. However since the project is to replace the bridge railing only, it is unlikely that the project would impact any wetlands and waters. If any wetlands or waters occur in the project work area they should be avoided, and designated as ESA's.

2) Saratoga Ave Bridge # 37-0144 (SCL-9-PM18.4)

*Site Description/ Habitat:*

This bridge is located in the city of Los Gatos and spans Los Gatos Creek. Los Gatos Creek is a perennial creek that drains into the Southern San Francisco Bay. The creek is channelized in the proposed area and has numerous concrete spillways. The creek downstream of the bridge appears to be unlined and is highly vegetated with riparian vegetation including willows (*Salix* sp.), Sycamore (*Plantanus racemosa*) and Oaks (*Quercus agrifolia*). The bridge structure itself may provide habitat for numerous species of birds and bats.

*Flora/Fauna:*

The US Fish and Wildlife Service and California Department of Fish and Game's California Natural Diversity Database (CNDDDB) list numerous threatened/endangered species that have the potential to occur in the Los Gatos U.S. Geological Survey Quadrangle, which covers the project area (see the attached

species lists). Included in this list are the California red-legged frog (*Rana aurora draytonii*) and Steelhead (*Oncorhynchus mykiss*). The creek the project is within steelhead range, however complete barriers to fish passage exist both upstream and downstream of the project site.

Numerous species of bats use bridges for roosting habitat. Many of these bats are Species of Special Concern. A site assessment will need to be conducted to determine if these bridge structures are being used by bats as roosting habitat.

The Federal Migratory Bird Treaty Act (16 U.S.C. 703 et seq.), Title 50 Code of Federal Regulations part 10, and California Fish and Game Code Sections 3503,3513 and 3800 protect migratory birds, occupied nests and their eggs. Birds nest in a variety of places which include trees, shrubs, bridges and other man-made structures and on the ground.

*Fish Passage:*

The Calfish database indicates that the channelized portion of the creek within the project area is a partial barrier to fish; it also indicates that A Fish Passage Assessment is needed at this crossing.

*Waters/Wetlands:*

The bridge spans a perennial creek. This creek is a jurisdictional water of the US regulated by the US Army Corp of Engineers (USACE). It is likely there are associated jurisdictional wetlands present as well. However since the project is to replace the bridge railing only, it is unlikely that the project would impact any wetlands and waters. If any wetlands or waters occur in the project work area they should be avoided, and designated as ESA's.

3) Tularcitos Creek Bridge # 37-0317 ( SCL-680-PM 13.5)

*Site Description/ Habitat:*

This bridge is located near the City of Milpitas. The bridge is located in a suburban setting with housing developments surrounding the project area. The site has not yet been visited, however aerial photography and street view imagery were reviewed. The Tularcitos creek is a channelized creek that drains into Barryessa creek which drains into Coyote creek and then into South San Francisco Bay. The channel is densely vegetated, however no riparian trees appear to be present. The bridge structure itself may provide habitat for birds and bats.

*Flora/Fauna:*

The US Fish and Wildlife Service and California Department of Fish and Game's California Natural Diversity Database (CNDDB) list numerous

threatened/endangered species that have the potential to occur in the Milpitas and Calaveras Reservoir U.S. Geological Survey Quadrangles, which cover the project area (see the attached species lists). Included in this list are the California red-legged frog (*Rana aurora draytonii*), California Tiger Salamander (*Ambystoma californiense*) and the Alameda whipsnake (*Masticophis lateralis euryxanthus*).

Numerous species of bats use bridges for roosting habitat. Many of these bats are Species of Special Concern. A site assessment will need to be conducted to determine if these bridge structures are being used by bats as roosting habitat.

The Federal Migratory Bird Treaty Act (16 U.S.C. 703 et seq.), Title 50 Code of Federal Regulations part 10, and California Fish and Game Code Sections 3503, 3513 and 3800 protect migratory birds, occupied nests and their eggs. Birds nest in a variety of places which include trees, shrubs, bridges and other man-made structures and on the ground.

*Waters/Wetlands:*

The bridge spans a perennial creek. This creek is a jurisdictional water of the US regulated by the US Army Corp of Engineers (USACE). It is likely there are associated jurisdictional wetlands present as well. However since the project is to replace the bridge railing only, it is unlikely that the project would impact any wetlands and waters. If any wetlands or waters occur in the project work area they should be avoided, and designated as ESA's.

*Project-wide Constraints*

*Permits:*

Because the project involves work on roadway and bridge structures, it is unlikely that any permits will be required for this project. Because sensitive habitats and listed species occur in the vicinity of the project work areas, informal consultation with the USFWS may be required. If any work occurs within the channel of any creek a 1600 permit will be required. This includes removal or trimming of riparian vegetation. Additional site assessments and a complete project description will be needed to confirm this.

*Schedule*

If construction work is scheduled during the bird-nesting season (approximately February 1<sup>st</sup> to August 15<sup>th</sup>), then a pre-construction survey for nesting birds must occur.

Mitigation: This project is not expected to require any mitigation.

Please allow the Office of Biological Sciences and Permits the opportunity to review your plans as they progress. If you have any questions regarding these comments please contact biologist, Katie Thoreson at (510) 286-6375.

**Context Sensitive Solutions:** Context sensitive solutions meet transportation goals in harmony with community goals and natural environments. They require careful, imaginative, and early planning and continuous community involvement. There were no early planning activities and community involvement efforts that were undertaken during this initial phase of project development. The project, by its nature is not expected to conflict in harmony with community goals and the natural environment.

***Disclaimer***

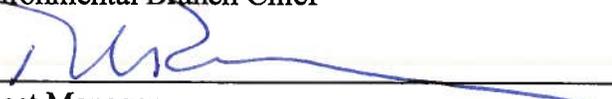
This Preliminary Environmental Analysis Report (PEAR) provides information to support programming of the proposed project. It is not an environmental determination or document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in the Project Study Report (PSR). The estimates and conclusions in the PEAR are approximate and are based on cursory analyses of probable effects. A reevaluation of the PEAR will be needed for changes in project scope or alternatives, or in environmental laws, regulations, or guidelines.

***Review and Approval***

I confirm that environmental cost, scope, and schedule have been satisfactorily completed and that the PEAR meets all Caltrans requirements. Also, if the project is scoped as a routine EA, complex EA, or EIS, I verify that the HQ DEA Coordinator has concurred in the Class of Action.

  
\_\_\_\_\_  
Environmental Branch Chief

Date: 9/15/2011

  
\_\_\_\_\_  
Project Manager

Date: 9/15/11

**REQUIRED ATTACHMENTS:**

**Attachment A: Environmental Technical Reports or Studies Required**

**Attachment B: PEAR Mitigation and Compliance Cost Estimate**

## Attachment A: Environmental Technical Reports or Studies Required

	Study or Report	Document Text Only	Not Anticipated
<b>Community Impact Study</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Farmland</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Section 4(f) Evaluation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Visual Resources</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Water Quality</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Floodplain Evaluation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Noise Study</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Air Quality Study</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Paleontology</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Wild and Scenic River Consistency</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Cumulative Impacts</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Growth Inducing/Indirect Impacts</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Cultural</b>			
Archaeological Survey Report (ASR)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Historic Resources Evaluation Report (HRER)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Historic Property Survey Report (HPSR)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Historical Resource Compliance Report	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SHPO / PRC 5024.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Native American Coordination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other Finding of Effect:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ESA Plan:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data Recovery Plan:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Memorandum of Agreement* (*if Federal Permit is required)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Hazardous Waste</b>			
ISA (Additional)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PSI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Biological</b>			
Endangered Species (Federal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Endangered Species (State)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Species of Concern (CNPS, USFS, BLM, S, F)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biological Opinion (USFWS, NMFS, State)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fish Passage Barriers Assessment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wetlands	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Invasive Species	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Natural Environment Study	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NEPA 404 Coordination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Permits**

401 Permit Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
404 Permit Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1602 Permit Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City/County Coastal Permit Coordination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State Coastal Permit Coordination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NPDES Permit (402) Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
US Coast Guard (Section 10)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Attachement B: PEAR Mitigation and Compliance Cost Estimate\***

District 04	County SCL	Route 9 Route 9 I-680	3.6 11.4 M8.4	EA 1A3400K
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Description of Work: Roadway Rehabilitation

Project Manager	Patrick Pang	Date	
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Prepared by	Peter Frey	Date	9-15-11
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	Mitigation			Compliance
	Project Feature <sup>1</sup>	Enviro. Obligation <sup>2</sup>	Statutory Require. <sup>3</sup>	Permit & Agreement <sup>4</sup>
Fish & Game 1602 Agreement				
Coastal Development Permit				
State Lands Agreement				
NPDES Permit				
COE 404 Permit- Nationwide				
COE 404 Permit- Individual				
COE Section 10 Permit				
COE Section 9 Permit				
Other:				
Noise attenuation				
Special landscaping				
Archaeological				
Biological				
Wetland/riparian				
Historical				
Scenic resources				
Asbestos Testing/Mitigation				
Other:				
<b>TOTAL (Enter zeros if no cost)</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>

Costs are to include all costs to complete the commitment including: 1) capital outlay and staff support; 2) cost of right-of-way or easements; 3) long-term monitoring and reporting; and 4) any follow-up maintenance.

<sup>1</sup> Mitigation that Caltrans would normally do if not required by a permit or environmental agreement.

<sup>2</sup> Mitigation that Caltrans would not normally do but is required by conditions of a permit or environmental agreement.

<sup>3</sup> Mitigation that Caltrans would not normally do and is not required by a permit or Enviro. Agreement, but is required by a law.

<sup>4</sup> Non-mitigation Caltrans would not normally do but is required by conditions of a permit or agreement.

\*Prepare a separate form for each practicable alternative in the PSR.



### 1. Project Description

- This project proposes to replace bridge railings along three (3) bridges in Santa Clara County. Two of these are along California State Route (SR) 9 at post-miles (PMs) 3.6 and 11.4, and the third along U.S. Interstate (I) 680 at PM M8.4. At all locations, the railings have become corroded and weakened, such that they are vulnerable to collapse due to wind load. Replacement would bring these railings up to current State standards. Operations include: concrete barrier and sidewalk removal, chain link fence removal, concrete pour, chain link fence installation. These operations have the potential to cause temporary water quality impacts. To prevent such impacts, proper recommendation, and resultant adequate implementation, of Construction Site Best Management Practices (BMPs) shall occur throughout project delivery and construction, respectively.
- Considering the scope of work, there will not be a net increase of impervious area. Additionally, no disturbed soil area (DSA) is anticipated, but this quantity will be assessed during the subsequent project phases (for example, potential contractor staging areas).
- The project location is located within Hydrologic Sub-Areas (HSAs) 205.30, 205.40, and 205.50. The direct receiving water bodies with these HSAs are Tularcitos Creek (I-680 PM M8.4), Los Gatos Creek (SR 9 PM 11.4) and Saratoga Creek (SR 9 PM 3.6), respectively. Of these, Los Gatos and Saratoga Creeks are Clean Water Act Section 303(d) listed for water body impairment. Lastly, the ultimate downstream receiving water bodies in these watersheds, is the San Francisco Bay-South, which is also 303(d) listed.
- The project is situated within the Santa Clara County Municipal Separate Storm Sewer System (MS4).

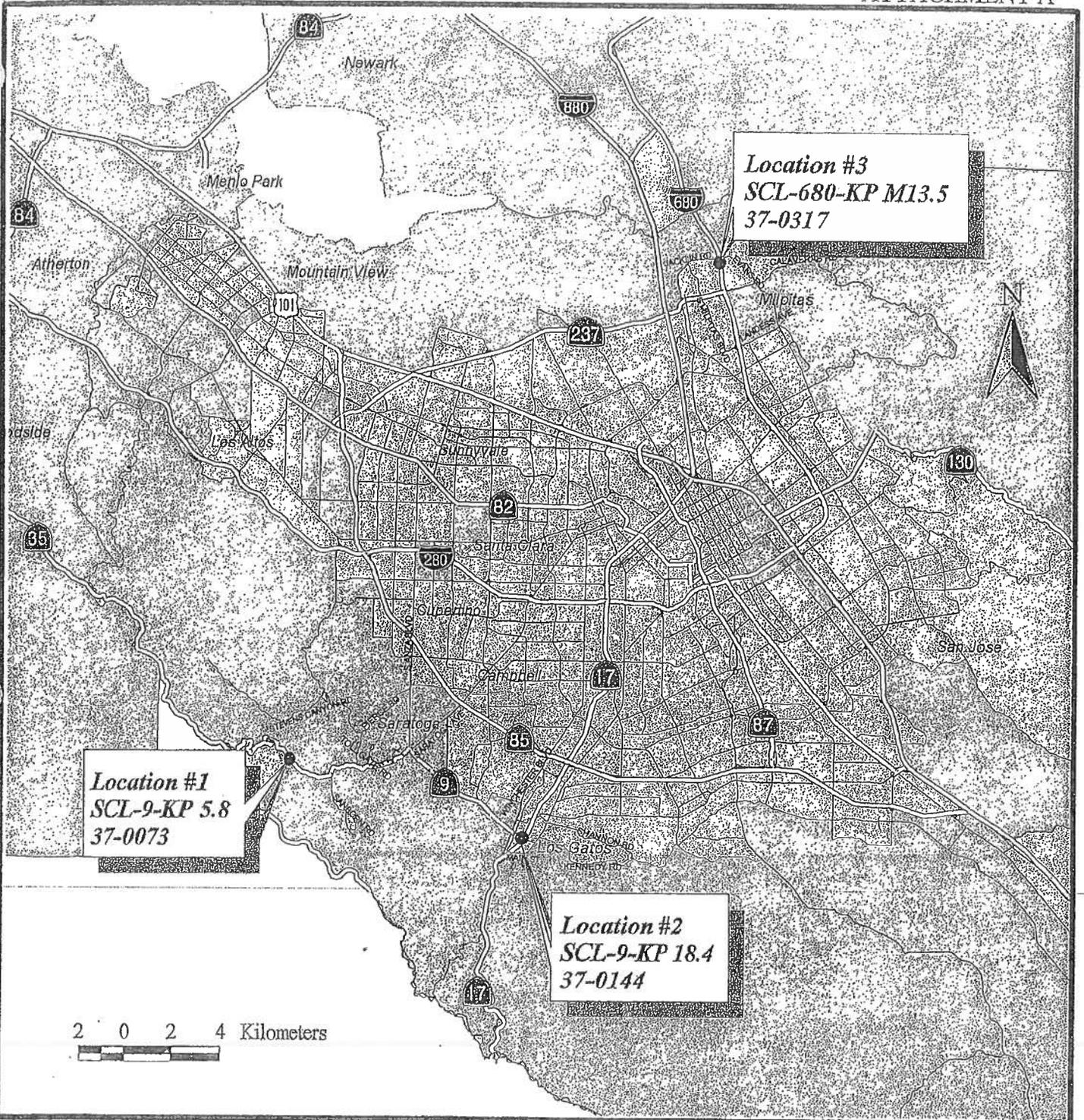
### 2. Construction Site BMPs

- Due to the scope, and whereas the DSA is not known, preparation of a Water Pollution Control Program (WPCP) is anticipated. The WPCP shall be prepared by the Contractor, per Standard Special Provision (SSP) 07-340. If the DSA is determined to be greater than 1.0 acre, then a Stormwater Pollution Prevention Plan (SWPPP) must be prepared, per SSP 07-345.
- A Construction Site BMP strategy will be developed throughout the project delivery process. Given the nature of the proposed operations, as stated in Section 1 above, waste and material management items shall be important considerations. Additionally, Temporary Drainage Inlet Protection is anticipated to prevent construction-related sediment from being transported downstream.
- Construction Site BMPs will be refined during the future Plans, Specifications, and Estimate (PS&E) phase.

### 3. Required Attachments

- Vicinity Map
- Evaluation Documentation Form





**Location #1**  
**SCL-9-KP 5.8**  
**37-0073**

**Location #2**  
**SCL-9-KP 18.4**  
**37-0144**

**Location #3**  
**SCL-680-KP M13.5**  
**37-0317**

2 0 2 4 Kilometers



**LOCATION MAP**

**PROJECT SCOPE SUMMARY REPORT**  
**(Bridge Rail Replacement/Upgrade)**

04-SCL-9 KP 5.8, 18.4 (PM 3.6, 11.4)  
 04-SCL-680 KP M13.5 (PM M8.4)  
 04-609-1A340K  
 Bridge Preservation Program

## Evaluation Documentation Form

DATE: 09/14/2011

Project ID (or EA): 1A340K

NO.	CRITERIA	YES ✓	NO ✓	SUPPLEMENTAL INFORMATION FOR EVALUATION
1.	Begin Project Evaluation regarding requirement for consideration of Treatment BMPs	✓		See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs. Go to 2
2.	Is this an emergency project?		✓	If <b>Yes</b> , go to 10. If <b>No</b> , continue to 3.
3.	Have TMDLs or other Pollution Control Requirements been established for surface waters within the project limits? Information provided in the water quality assessment or equivalent document.	✓		If <b>Yes</b> , contact the District/Regional NPDES Coordinator to discuss the Department's obligations under the TMDL (if Applicable) or Pollution Control Requirements, go to 9 or 4. <u>BJR</u> (Dist./Reg. SW Coordinator initials) If <b>No</b> , continue to 4.
4.	Is the project located within an area of a local MS4 Permittee?	✓		If <b>Yes</b> . ( <i>Santa Clara County</i> ), go to 5. If <b>No</b> , document in SWDR go to 5.
5.	Is the project directly or indirectly discharging to surface waters?	✓		If <b>Yes</b> , continue to 6. If <b>No</b> , go to 10.
6.	Is it a new facility or major reconstruction?		✓	If <b>Yes</b> , continue to 8. If <b>No</b> , go to 7.
7.	Will there be a change in line/grade or hydraulic capacity?		✓	If <b>Yes</b> , continue to 8. If <b>No</b> , go to 10.
8.	Does the project result in a <u>net increase of one acre or more of new impervious surface</u> ?			If <b>Yes</b> , continue to 9. If <b>No</b> , go to 10.  <i>(Net Increase New Impervious Surface)</i>
9.	Project is required to consider approved Treatment BMPs.			See Sections 2.4 and either Section 5.5 or 6.5 for BMP Evaluation and Selection Process. Complete Checklist T-1 in this Appendix E.
10.	Project is not required to consider Treatment BMPs. <u>BJR</u> (Dist./Reg. Design SW Coord. Initials) <u>CTS</u> (Project Engineer Initials) <u>9/15/2011</u> (Date)	✓		Document for Project Files by completing this form, and attaching it to the SWDR.

- 1 See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs

