

Memorandum

*Flex your power!
Be energy efficient!*

To: RAMSES SARGISS
Office Chief
Maintenance & Toll Bridge Engineering

Date: September 16, 2011
File: 04-MRN-101-PM 12.7/14.7
Program: 201.112
Project ID 0412000117 K
(EA 04-4A000K)

Attn: FUK NYAN KURNIAWAN
115, HM3, & SHOPP 119 Bridge Program Advisor

Freitas Parkway OC, PM 13.7
Lucas Valley Road UC, PM 14.7
San Pedro Road UC PM 12.7

From: BETCY JOSEPH 
Project Management North

Subject: Project Initiation Document (PID) Refresher

Background

The Project Scope Summary Report (PSSR) for the above-referenced project was approved on December 3, 2007 to program in the 2008 State Highway Operation and Protection Program (SHOPP), but was not programmed. The original project cost estimate was \$1,079,000. The escalated cost estimate to FY 2011 was \$1,355,000. The Right of Way cost was \$ 0. This project is now “refreshed” for cost for programming in the 2012 SHOPP.

Project Scope

There is no change to the scope of this project.

This project will include the following work:

- Replace bridge railings and fences for Route 101 Freitas Parkway Overcrossing (Bridge No. 27-0080) and reconfigure the geometric cross section widths to standard
- Replace bridge railings on Route 101 at Lucas Valley Road Undercrossing (Bridge No. 27-0059)
- Grind existing AC and treat the deck with Methacrylate on Route 101 at North San Pedro Road Undercrossing (Bridge No. 27-0014S) Offramp

Preliminary Project Cost Estimate

- Current project cost estimate is \$1,531,000 including Right of Way cost of \$5,000
- RTL in April 2015
- Mid-year construction cost in Jan 2016 is \$ 1,785,000 without the Right of Way cost.
- District 04 recommended escalation rate of 4% was used for all escalation computations, and 25% for contingency.

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 Study
- (6) Updated PEAR
- (7) Updated Storm Water Data Report

Structural Rehabilitation
EA 4/000K
In Marin County

PROJECT SCHEDULE

Start PAED	7/2012
PAED	1/2014
Request R/W	4/2014
PSE Submittal	1/2015
ROW Certification	3/2015
RTL	4/2015
Start Construction	7/2015
End Construction	7/2016

PROJECT SUPPORT COMPONENTS									
	PA&ED 0 Phase		Design 1 Phase		Right of Way 2 Phase		Construction 3 Phase		Total
	Dist	DES	Dist	DES	Dist	DES	Dist	DES	
Estimated PY's	1.5	0.5	1.0	0.5	0.5	0.0	1.0	0.5	5.5
Estimated PS \$'s (\$1000's)	270	90	180	90	90	0	180	90	990.0
Estimated PYE \$'s (\$1000's)									
Total \$'s (\$1000's)	270	90	180.0	90.0	90.0	0.0	180.0	90.0	990.0

T0: Office of Advance Planning-PSR I

Date 9/9/2011
Dist 4 Co Min Rte 101
PM 12.69/14.71Attention: WARWICK W. T. CHEUNG
District Branch Chief

EA 4A000K (No EFIS ID yet)

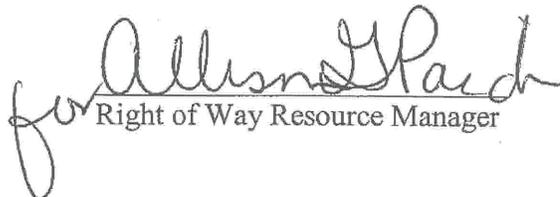
From: ENID LAU
Right of Way Resource ManagerBridge Replacement
D.S. #5978

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 19, 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 - I

Date 9/8/2011 D.S. # 5978
 Dist. 04 Co. Mrn Rte 101 PM 12.69/14.71
 EA 04-4A000K (04)

ATTN: WARWICK W.T. CHEUNG

Project Description: Replace Bridge Barrier

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 _____		
<u>Misc R/W Work</u>				
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 9/9/11

Enter AGRE Screen (Railroad Data Only) _____

No. Excess Parcels _____

By alpauch

By _____

Excess _____

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 Warwick W.T. Cheung on 8/18/2011

Evaluation Prepared By: Renata Frey

Right of Way: Name Renata Frey Date 9/8/11

Railroad: Name Paul G. [Signature] Date 9-8-11

Utilities: Name [Signature] Date 9/8/11

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, RW Appraisal Services
9/9/11
Date

cc: Program Manager
Project Manger

UTILITY INFORMATION SHEET

1. Utility owners located within project limits:
AT&T, PG&E, MMWD

2. Facilities potentially impacted by project (if known, include Owners(s) & facility type(s)):
None

3. Anticipated Workload:

<u> X </u>	Utility Verification required
<u> </u>	Positive Identification
<u> </u>	Utility Relocation
<u> </u>	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	<u> </u>	Owner Expense Involvements
U4-2	<u> </u>	State Expense Involvements (Conventional, No Fed Aid)
U4-3	<u> </u>	State Expense Involvements (Freeway, No Fed Aid)
U4-4	<u> </u>	State Expense Involvements (Conventional or Freeway, Fed Aid)
U5-7	<u> 2 </u>	Verifications - without involvements
U5-8	<u> </u>	Verifications - 50% involvements
U5-9	<u> </u>	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: Leo Munneke


Right of Way Utility Coordinator

 9/8/11
Date

R/W General Project

Matrix

Project Management Costs (Not Associated With An Individual Parcel) - FILE NAME: R\WORK\PLANSAM

DATE PREPARED: 9/9/2011

DATE UPDATED: 9-Sep-11

PROJECT E.A.

(all measures are in HOURS)

4A000K

Minimum R/W
Low

ADJUSTMENT FACTOR = 0.00%

100		Perform Project Management
100.25		Project Management - Right of Way Component
.25.05		Initiation and Planning
.25.10		Execution and Control
.25.15		Close Out

25
50
25

100 Sub-Total	100
---------------	-----

150		Develop Project Initiation Document (PID)
150.05		Define Transportation Problem & Assess Site
.05.15		Perform Utility Search

8

150.10		Develop Initial Alternatives
.10.10		Perform Value Analysis

0

150.15		Analyze Alternatives
.15.05		Prepare R/W Data Sheets
.15.10		Assess Utility Relocation Requirements
.15.15		Determine Railroad Involvement

8
8
8

150.25		Prepare and Approve PID (PSR, PSSR, etc.)
.25.20		Circulate, Review & Approve PID

8

150 Sub-Total	40
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40

R/W General Project Matrix

Project Management Costs (Not Associated With An Individual Parcel) - FILE NAME: R\WORKPLANSAM

9/9/2011

9-Sep-11

4A000K

PROJECT E.A.

(all measures are in HOURS)

WBS Activity Code

Minimum RW
Low

160		Perform Preliminary Engineering Studies & Prepare Draft Project Report. <i>Review and Update Project Information</i>	8
	160.05	Review Project Cost Estimate	

160.10		Perform Engineering Studies	0
	.10.20	Perform Value Analysis	16
	.10.40	Review & Update Right of Way Data Sheet	8
	.10.45	Re-assess Utility Impacts	0
	.10.50	Perform Railroad Study	

160.15		Prepare Draft Project Report	0
	.15.15	Obtain Approval for Exceptions to Encroachment Policy	8
	.15.25	Circulate, Review & Approve Draft Project Report	

160 Sub-Total			40
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165		Perform Environmental Studies & Prepare Draft Environmental Document (DED)	0
	165.10	Perform General Environmental Studies	0
	.10.10	Obtain Rights of Entry for Environmental Studies	
	.10.55	Prepare Draft Right of Way Relocation Impact Document	

165 Sub-Total			0
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175		Circulate Draft Environmental Document & Select Preferred Project Alternative	
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R/W General Project Matrix

Project Management Costs (Not Associated With An Individual Parcel) - FILE NAME: RWWORKPLANSAM

DATE PREPARED: 9/9/2011

DATE UPDATED: 9-Sep-11

PROJECT E.A.

(all measures are in HOURS)

WBS Activity Code		Minimum RW Low
175.10	<i>Prepare for and Hold Public Hearing</i>	
	Review Map Displays & Discuss Public Hearing	0
	Hold Public Hearing	0
175.15	<i>Respond to Public Comments and Correspondence</i>	0
	Respond to Public Comments and Correspondence	
175 Sub-Total		0

180	<i>Prepare & Approve Project Report & Final Environmental Document</i>	
180.10	<i>Prepare & Approve Final Environmental Document (FED)</i>	
	Prepare Final Right of Way Relocation Impact Document	0
180 Sub-Total		0

***DO NOT TYPE DIRECTLY INTO HOUR FIELDS FOR ACT. 195 AS THEY ARE FORMULA DRIVEN BY TABS BELOW!**

195	<i>Right of Way Property Management and Excess Land Property Management</i>	
195.40	Fair Market Rent Determination (Residential)	0
	Fair Market Rent Determination (Non-Residential)	0
	Regular Property Management	0
	Property Maintenance and Rehabilitation (Rentable Property)	0
	Property Maintenance and Rehabilitation (Non-Rentable Property)	0
	Hazardous Waste and Hazardous Materials	0
	Transfer of Property to Clearance Status	0

R/W General Project

Matrix

Project Management Costs (Not Associated With An Individual Parcel) - FILE NAME: R\WORKPLANSAM

9/9/2011

9-Sep-11

PROJECT E.A. 4A000K

(all measures are in HOURS)

WBS Activity Code

.20.05	Prepare, Approve and Transmit Liability/FHWA Authorization Package	
.20.25	Relocation Revised Notice, Amended UA & Process Billing per UA	
.20.30	Prepare Utility JUA/CCUA/Conveyance Document Package	
200.25	<i>Manage the Utility Relocation</i>	
.25	Manage the Utility Relocation	

200 Sub-Total

40

205	<i>Obtain Permits, Agreements & Route Adoptions</i>	
205.10	<i>Obtain Permits</i>	
.10.95	Obtain "Other" Permits	

16

205.15	<i>Obtain Railroad Agreements</i>	
.15.15	Prepare Service Contract for Railroads	
.15.20	Prepare PUC Exhibits & Application	

0
0

205.35	<i>Prepare & Execute Cooperative Agreement</i>	
.35.05	Prepare & Execute Cooperative Agreement for Environmental Process	
.35.10	Prepare & Execute Cooperative Agreement for Design	
.35.20	Prepare & Execute Cooperative Agreement for Right of Way	

0
0
0

205.50	<i>Prepare & Execute Cooperative Agreement for Relinquishment</i>	
.50	Prepare & Execute Cooperative Agreement for Relinquishment	

0

205 Sub-Total

16

Minimum RW	
Low	
0	
0	
0	

0

R/W General Project Matrix

Project Management Costs (Not Associated With An Individual Parcel) - FILE NAME: R\WORKPLANSAM

DATE PREPARED: 9/9/2011

DATE UPDATED: 9-Sep-11

PROJECT E.A. 4A000K

(all measures are in HOURS)

WBS Activity Code

***DO NOT TYPE DIRECTLY INTO HOUR FIELDS FOR ACT. 225 AS THEY ARE FORMULA DRIVEN BY TABS BELOW!**

225	Obtain Right of Way Interest for Project Right of Way Certification <i>Parcel and Project Documentation</i>	225.50	0
225.55	<i>Obtain Right of Way Interest</i>		
	Right of Way Appraisals	.55.05	0
	Right of Way Acquisitions	.55.10	0
	Right of Way Relocation Assistance	.55.15	0
	Right of Way Clearance	.55.20	0
	Right of Way Condemnation	.55.25	0
	225 Sub-Total		0
230	<i>Prepare Draft PS&E</i>		
	<i>Prepare Draft Utility Plans</i>		
	Prepare Utility Relocation Plans	.25.10	0
	<i>Prepare Draft Specifications</i>		
	Develop Utility Specifications	.35.25	0
	230 Sub-Total		0
235	<i>Mitigate Environmental Impacts & Clean-up Hazardous Waste</i>		
	<i>Perform Environmental Mitigation</i>		
	Perform Environmental Mitigation R/W Work	.05.20	0

Minimum R/W
Low

R/W General Project Matrix

Project Management Costs (Not Associated With An Individual Parcel) - FILE NAME: R\WORKPLANSAM

DATE PREPARED: 9/9/2011

DATE UPDATED: 9-Sep-11

PROJECT E.A. 4A000K

(all measures are in HOURS)

WBS Activity Code

Minimum R/W
Low

235.10	Perform Detailed Site Investigation for Hazardous Waste	
.10.05	Obtain Right or Permit for Hazardous Waste Site Investigations	8
235 Sub-Total		
		8

*DO NOT TYPE DIRECTLY INTO HOUR FIELDS FOR ACT. 245 AS THEY ARE FORMULA DRIVEN BY TABS BELOW!

245	Post Right of Way Certification Work	
245.50	Parcel and Project Documentation	
.50	Parcel and Project Documentation	0

245.55	Close Out Right of Way Interests	
.55.05	Right of Way Appraisals	0
.55.10	Right of Way Acquisitions	0
.55.15	Right of Way Relocation Assistance	0
.55.20	Right of Way Clearance	0
.55.25	Right of Way Condemnation	0
245 Sub-Total		
		0

255	Circulate, Review & Prepare Final District PS&E Package	
255.05	Circulate & Review Draft District PS&E Package	
.05	Circulate & Review Draft District PS&E Package	8
255.10	Update PS&E Package	
.10.30	Update Utility PS&E	8

R/W General Project Matrix

Project Management Costs (Not Associated With An Individual Parcel) - FILE NAME: R\WORK\PLANSAM

DATE PREPARED: 9/9/2011

DATE UPDATED: 9-Sep-11

PROJECT E.A. 4A00K

(all measures are in HOURS)
WBS Activity Code

Minimum RW
Low
16

255 Sub-Total

270 Perform Construction Engineering & General Contract Administration
Perform Construction Engineering Work
Provide Technical Support

0

270.25 Perform Construction Contract Administration Work
Secure Lease for Resident Engineer Office Space or Trailer

0

270 Sub-Total

0

285 Prepare & Administer Contract Change Orders
Provide Functional Support
Provide "Other" Functional Support

8

285 Sub-Total

8

TOTALS

268

SEE COMMENTS BELOW

These numbers are for RIGHT OF WAY EFFORTS ONLY, not the efforts of other RBS groups.
The hours for Right of Way Engineering and Surveys and Mapping are provided directly from that unit to the Project Manager.

R/W General Project

Matrix

Project Management Costs (Not Associated With An Individual Parcel) - FILE NAME: RWWORKPLANSAM

DATE PREPARED:

9/9/2011

DATE UPDATED:

9-Sep-11

PROJECT E.A.

4A000K

(all measures are in HOURS)

WBS Activity Code

Minimum RW

Low

THIS TEMPLATE WAS LAST "UPDATED" ON : March 18, 2004

Memorandum

*Flex your power!
Be energy efficient!*

To: BETCY JOSEPH
PROJECT MANAGER
ATTN: WARWICK CHEUNG
DISTRICT 4 DESIGN

Date: September 12, 2011

File: 04-MRN-101-PM-Varies
EA 04-4A000K
Project ID 0412000141 K
Freitas Parkway Overcrossing, PM 13.7
Lucas Valley Road Undercrossing, PM 14.7
San Pedro Road Undercrossing, PM 12.7

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

Subject: Advance Planning Study Transmittal

Attached are copies of the Advance Planning Study Details and Estimates for the above referenced project as submitted to the Division of Engineering Services.

The estimated construction costs, including 10% mobilization and 40% contingencies, are as follows:

<u>Structure Name</u>	<u>Bridge No.</u>	<u>Estimated Cost</u>
Freitas Parkway Overcrossing	27-0080	\$173,000
Lucas Valley Road Undercrossing	27-0059	\$20,000
San Pedro Road Undercrossing (Onramp)	27-0014S	\$13,000

Working Days for Freitas Parkway OC = 24

Working Days for Lucas Valley Rd UC = 20

Working Days for San Pedro Rd UC = 6

The Advance Planning Study alternatives and associated cost estimate is based on the assumptions included within the plan set for each alternative

If you have any questions or if you need additional information regarding this study, please contact Mike Van De Pol at 916-227-8225 or Gordon Danke at 916-227-8224.

Attachments

c: MAJID MADANI, Project Coordinating Engineer MS 9-3/3G
OFELIA ALCANTARA, Bridge Design West Office Chief MS 9-4/11G
PETE WHITFIELD, Structure Maintenance & Investigations, North MS 9-1/11
KEVIN WALL, HA21 Program Coordinator MS 9-1/9I
JOHN BABCOCK, Structure Construction Assistant Deputy Division Chief MS 9-2/11H

< DESIGN SENIOR NAME > - District <#>

<Month Day, Year>

Page 2

CRAIG WHITTEN, Structure Specifications Branch Chief MS 9-2/2H

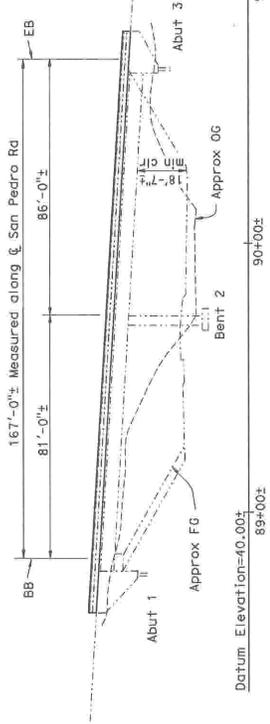
JOHN STAYTON, Structure Office Engineer Chief MS 9-2/2H

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

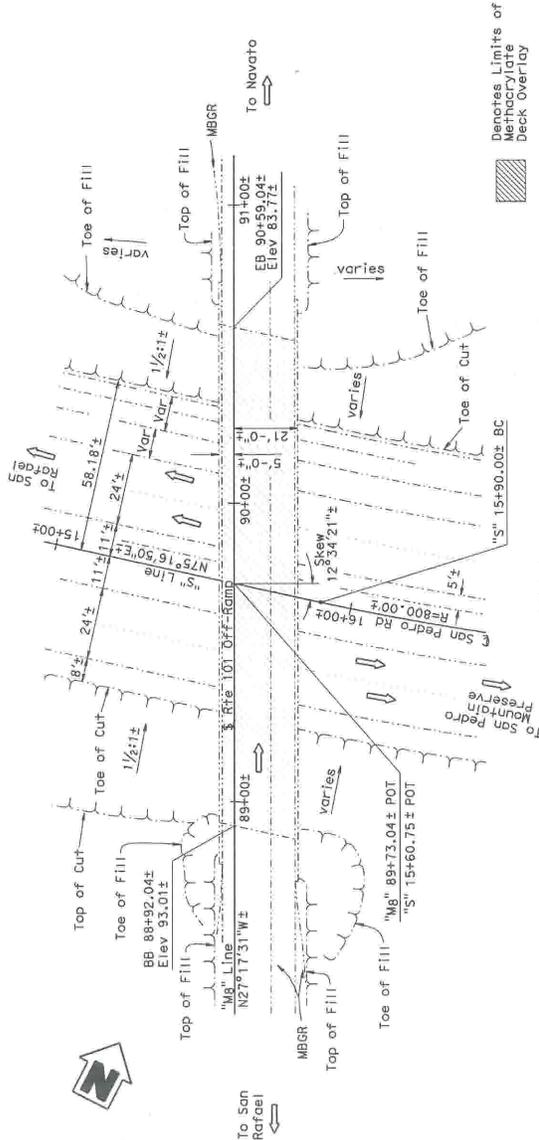
ROBERT BLANCO, Branch Chief, Project Study Report II- Office of Advanced Planning D4

LAURA LUCE, Structure Status and Tracking Branch

DIST	COUNTY	ROUTE	POST MILE
04	MEN	101	12.89

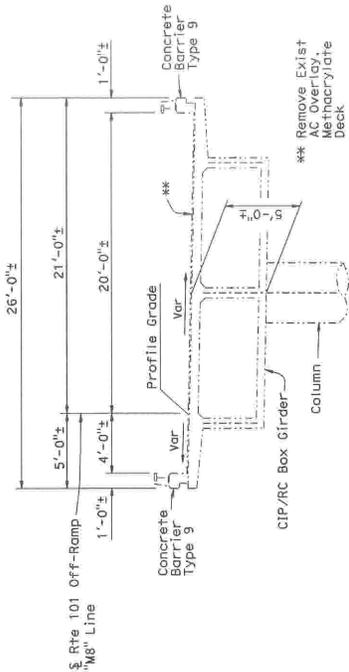


ELEVATION
MBGR NOT SHOWN
1" = 20'



DATE OF ESTIMATE	09-07-2011
BRIDGE REMOVAL	N/A
STRUCTURE DEPTH	5'-0"±
STRUCTURE LENGTH	167'-0"±
STRUCTURE WIDTH	26'-0"
AREA	4342 sqft±
COST INCLUDING REMOVAL & 40% CONTINGENCY	\$13,000
COST/AREA	2.99 \$/SQFT

--- Denotes Existing
--- Denotes New Construction



TYPICAL SECTION
1/4" = 1'-0"

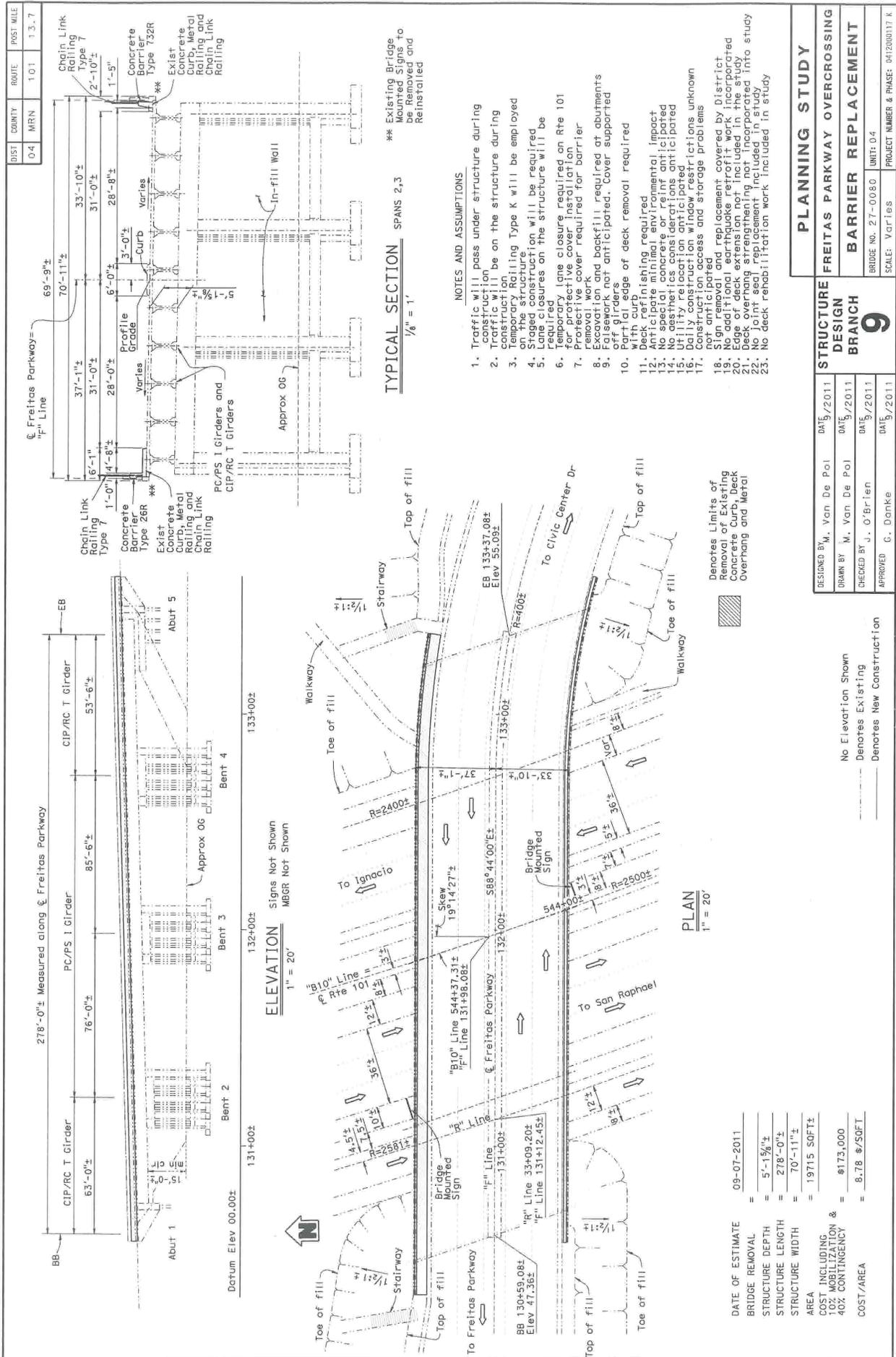
NOTES AND ASSUMPTIONS

- Traffic will pass under structure during construction
- Traffic will be on the structure during construction
- Concrete railing Type K will not be employed on the structure
- Staged construction will be required
- No protective cover will be employed
- No falsework will be required at abutments
- No falsework anticipated
- Anticipate minimal environmental impact
- No aesthetics considerations anticipated
- No daily construction window restrictions unknown
- Not anticipated
- Not anticipated
- No joint seal replacement included in study
- No additional deck rehabilitation work included in study

PLANNING STUDY
STRUCTURE SAN PEDRO ROAD UNDERCROSSING (OFFRAMP)

DESIGNED BY	M. Van De Pol	DATE	9/2011
DRAWN BY	M. Van De Pol	DATE	3/2011
CHECKED BY	J. O'Brien	DATE	5/2011
APPROVED	G. Danke	DATE	5/2011

BRIDGE NO.	27-0014S	UNIT:	04
SCALE:	Varies		
PROJECT NUMBER & PHASE:	0412000117 K		



TYPICAL SECTION
SPANS 2,3
1/8" = 1'

NOTES AND ASSUMPTIONS

- Traffic will pass under structure during construction
- Traffic will be on the structure during construction
- Temporary Railing Type K will be employed
- Staged construction will be required
- Lane closures on the structure will be required
- Temporary lane closure required on Rte 101
- Protective cover required for barrier removal work
- Excavation and backfill required at abutments
- Falsework not anticipated, cover supported
- Part of edge of deck removal required with curb
- Deck refinishing required
- Anticipate minimal environmental impact
- No special concrete or rebar anticipated
- No special formwork anticipated
- Utility relocation anticipated
- Daily construction window restrictions unknown
- Construction access and storage problems
- Not anticipated
- 50% additional replacement covered by District
- No additional earthquake retrofit work incorporated
- Edge of deck extension not included in the study
- Deck overhang strengthening not incorporated into study
- No joint seal replacement included in study
- No deck rehabilitation work included in study

** Existing Bridge Mounted Signs to be Removed and Reinstated

PLANNING STUDY

STRUCTURE DESIGN BRANCH	DATE	DESIGNED BY
BRIDGE NO. 27-0080	9/2011	M. Van De Pol
SCALE: Varies	9/2011	M. Van De Pol
PROJECT NUMBER & PHASE: 041200017 K	5/2011	J. O'Brien
		G. Danke

DATE	DATE	DATE
9/2011	9/2011	9/2011
5/2011	5/2011	5/2011

Denotes Limits of Removal of Existing Concrete Curb, Deck Overhang and Metal

DATE OF ESTIMATE	09-07-2011
BRIDGE REMOVAL	
STRUCTURE DEPTH	= 5'-1 1/2"
STRUCTURE LENGTH	= 278'-0"
STRUCTURE WIDTH	= 70'-11"
AREA	= 19715 SQFT
INCLUDING 10% MOBILIZATION & 40% CONTINGENCY	= \$173,000
COST/AREA	= 8.78 \$/SQFT

STRUCTURES DESIGN BRANCH PLANNING STUDY SHEET (ENGLISH) (REV. 04-04-10)

RCVD BY: JTY

IN EST: 8/12/2011

OUT EST: 9/7/2011

BRIDGE: San Pedro

BR. No.: 27-0014S

DISTRICT: 04

TYPE: RC I Girder

RTE: 101

CU: 04-239

CO: MRN

EA: 4A000K

PM: 12.69/14.71

LENGTH: 167.00 WIDTH: 26.00

AREA (SF) = 4,342

DESIGN SECTION: 09

OF STRUCTURES IN PROJECT : 03 EST. NO. 2

PRICES BY : SJS COST INDEX: 297

QUANTITIES BY: John Obrian DATE: 4/25/2007

QUANTITIES CHECKED BY: DATE:

	CONTRACT ITEMS	TYPE	UNIT	QUANTITY	PRICE	AMOUNT
1	Clean & Treat Bridge Deck		SQFT	4,010	\$0.55	\$2,205.50
2	Furnish Methacrylate Deck		GAL	39	\$65.00	\$2,535.00
3	Remove AC Overlay 3" (Grind Deck)		SQFT	4,010	\$0.95	\$3,809.50
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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

SUBTOTAL	\$8,550
MOBILIZATION (@ 10 %)	\$950
SUBTOTAL BRIDGE ITEMS	\$9,500
CONTINGENCIES (@ 40%)	\$3,800
BRIDGE TOTAL COST	\$13,300
COST PER SQ. FT.	\$3.06
BRIDGE REMOVAL (CONTINGENCIES INCL.)	
WORK BY RAILROAD OR UTILITY FORCES	
GRAND TOTAL	\$13,300
FOR BUDGET PURPOSES - SAY	\$13,000

COMMENTS:

RCVD BY: JTY

IN EST: 8/12/2011

OUT EST: 9/7/2011

BRIDGE: Freightas Pkwy

BR. No.: 27-0080

DISTRICT: 04

TYPE: RC I Girder

RTE: 101

CU: 04-239

CO: MRN

EA: 4A000K

PM: 12.69/14.71

LENGTH: 278.00 **WIDTH:** 70.92

AREA (SF) = 19,716

DESIGN SECTION: 09

OF STRUCTURES IN PROJECT : 03

EST. NO. 2

PRICES BY : SJS

COST INDEX: 297

QUANTITIES BY: John Obrian

DATE: 4/25/2007

QUANTITIES CHECKED BY:

DATE:

	CONTRACT ITEMS	TYPE	UNIT	QUANTITY	PRICE	AMOUNT
1	Remove Existing Railing Type 9/curb		LF	620	\$30.00	\$18,600.00
2	Concrete Barrier Type 732		LF	310	\$75.00	\$23,250.00
3	Concrete Barrier Type 26		LF	310	\$115.00	\$35,650.00
4	Chain Link Fence		LF	616	\$55.00	\$33,880.00
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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

SUBTOTAL	\$111,380
MOBILIZATION (@ 10 %)	\$12,376
SUBTOTAL BRIDGE ITEMS	\$123,756
CONTINGENCIES (@ 40%)	\$49,502
BRIDGE TOTAL COST	\$173,258
COST PER SQ. FT.	\$8.79
BRIDGE REMOVAL (CONTINGENCIES INCL.)	
WORK BY RAILROAD OR UTILITY FORCES	
GRAND TOTAL	\$173,258
FOR BUDGET PURPOSES - SAY	\$173,000

COMMENTS:

OUT EST: 9/7/2011

BRIDGE: Lucas Valley BR. No.: 27-0059
TYPE: RC I Girder
CU: 04-239
EA: 4A000K

DISTRICT: 04
RTE: 101
CO: MRN
PM: 12.69/14.71

LENGTH: 102.63 WIDTH: var AREA (SF) =

DESIGN SECTION: 09
OF STRUCTURES IN PROJECT : 03 EST. NO. 2
PRICES BY : SJS COST INDEX: 297
QUANTITIES BY: John Obrian DATE: 4/25/2007
QUANTITIES CHECKED BY: DATE:

	CONTRACT ITEMS	TYPE	UNIT	QUANTITY	PRICE	AMOUNT
1	Remove Existing Railing Type 9/curb		LF	121	\$30.00	\$3,630.00
2	Concrete Barrier Type 736		LF	121	\$65.00	\$7,865.00
3	Clean & Treat Bridge Deck		SQFT	1,390	\$0.55	\$764.50
4	Furnish Methacrylate Deck		GAL	14	\$65.00	\$910.00
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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

SUBTOTAL	\$13,170
MOBILIZATION (@ 10 %)	\$1,463
SUBTOTAL BRIDGE ITEMS	\$14,633
CONTINGENCIES (@ 40%)	\$5,853
BRIDGE TOTAL COST	\$20,486
COST PER SQ. FT.	
BRIDGE REMOVAL (CONTINGENCIES INCL.)	
WORK BY RAILROAD OR UTILITY FORCES	
GRAND TOTAL	\$20,486
FOR BUDGET PURPOSES - SAY	\$20,000

COMMENTS:

PEAR



PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT

Project Information

District 04	County Marin	Route US 101	PM 12.69 (Br No 27-0014S) 13.71 (Br No 27-0080) 14.71 (Br No 27-0059)	EA 4A000K
Project Title: US 101 Bridge Rail Replacement and Pavement Rehabilitation				
Project Manager Warwick W. T. Cheung			Phone # 510.622.0155	
Project Engineer Muktar Ketebe			Phone # 510.622.1687	
Environmental Office Chief/Manager Melanie Brent			Phone # 510.286.5231	
PEAR Preparer Phillip Badal			Phone # 510.622.1746	

Project Description

Purpose and Need

The purpose of the project is to upgrade bridge railings and pavement to current standards.

Description of work

The project would replace bridge railings at Freitas Parkway Overcrossing (Bridge No. 27-0080) and Lucas Valley Road Undercrossing (Bridge No. 27-0059). The North San Pedro Road Undercrossing (Bridge No. 27-0014S) would receive pavement rehabilitation.

Alternatives

The build alternative brings the bridges to current standards, while the no build alternative leaves the existing facility unchanged.

Anticipated Environmental Approval

CEQA		NEPA	
Environmental Determination			
Statutory Exemption	<input type="checkbox"/>		
Categorical Exemption	<input checked="" type="checkbox"/>	Categorical Exclusion	<input checked="" type="checkbox"/>
Environmental Document			
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:			20
Estimated person hours to complete identified tasks: Completing environmental document.			2071

PEAR Technical Summaries

Visual/Aesthetics:

The aesthetics of the bridge railings will be evaluated during the PA/ED stage. This may involve a simple visual simulation for one or all three bridges. Potential impacts will be assessed and mitigations will be recommended.

Water Quality and Storm Water Runoff:

Construction will adhere to Caltrans' National Pollutant Discharge Elimination System (NPDES) Permit. To comply with the permit(s), standard special provision 07-340 (Water Pollution Control Program) is required in the construction contract documents. To comply with Caltrans Storm Water Management Plan, which is also required by Caltrans NPDES permit, the project will consider design pollution prevention best management practices (BMPs), construction site BMPs, and permanent treatment BMPs.

Cultural Resources:

The project has no potential to affect historic properties since none of the three project bridges were eligible for listing in the National Register of Historic Places. Likewise, the project has no potential to affect cultural resources as it is exempt from further review as a screenable project under Caltrans' Programmatic Agreement of the Section 106 screened undertakings. Any change to the project description or extension of project boundaries would require additional review by Office of Cultural Resources Studies staff.

Hazardous Waste/Materials:

Environmental Engineering will conduct an Asbestos Survey during PS&E to test the project bridges for asbestos. The cost of asbestos testing and mitigation is approximately \$50,000.

Air Quality and Noise:

Construction activities for the proposed project would generate noise and dust. These potential impacts are not expected to be significant and measures to minimize the impacts would be included in the construction contract specifications and Standard Special Provisions. Mobile Source Air Toxics and global warming will be addressed during PA/ED. Since the proposed project does not increase traffic capacity, it poses no permanent, increased air or noise concerns.

Biological Environment:

The habitat for the project sites is Highway 101, which is a very heavily traveled, 6-lane divided highway.

Potential impacts of the bridge rail replacement project on biological conditions along SR-101, in Marin County, were assessed by Steven Harris, Caltrans Biologist on 7-8 September 2011. Mr. Harris reviewed the project design, biological surveys, CNDDDB, aerial photography, and maps of State and Federally Listed Species to determine potential project impacts on listed species, wetland, waters of the State, and waters of the U.S.

The California Department of Fish and Game (CDFG) California Natural Diversity Database (CNDDDB) and the U.S. Fish and Wildlife Service (USFWS) list threatened/endangered species that have the potential to occur in the San Quentin, San Francisco North, San Rafael, and Point Bonita U.S. Geological Survey (USGS) Quadrangles, which cover the project area. However, the highly disturbed and urban locations of this project make it unlikely that the project will impact any T/E species.

Biological Resources

Birds:

Compliance with the Migratory Bird Treaty Act (MBTA) regarding nesting birds will be required. Surveys for migratory birds that may be nesting under project the bridges may be required. Exclusionary netting and limiting the construction timeframe to avoid nesting season (February 15 to September 1) may be required. If an active bird nest with eggs is found, the nests must be monitored before and during the construction period to ensure that the birds are not disturbed. Project work will occur within the paved roadway; therefore, biological impacts are expected to be minimal.

Bats:

Surveys for bats roosting under the bridges may be required. Exclusionary netting and limiting the construction timeframe to avoid the roosting season (June 1 to October 1) may

be required. If an active bat roost is found, the roost must be monitored before and during the construction period to ensure that the bats are not disturbed. Project work will occur within the paved roadway; therefore, biological impacts are expected to be minimal.

Plants:

The highly disturbed and urban locations of this project make it unlikely that the project will impact any T/E plants species.

Fisheries:

The Lucas Valley Bridge (PM-) is associated with Miller Creek which drains an area of 12 square miles with headwaters above the Gallinas Valley and proceeds through the town of Marinwood, entering San Pablo Bay at John F. McInnis County Park.

The Miller Creek drainage has Steelhead trout (*Oncorhynchus mykiss*). Historically, populations have been found in sampling in the 1990's (Leidy, R.A., G.S. Becker, B.N. Harvey. 2005) Surveys in 2001 (Jones 2000) also confirm the presence of Steelhead. Multiple age classes occur in Miller Creek, and steelhead production from the system is likely to constitute a relatively small but important part of regional production. The habitat function of this creek system should be protected to ensure continued contribution to the regional fishery.

Full attention and effort should be given to BMP's to prevent sediments from running off the project site and entering Miller Creek.

Physical Resources

Waters/Wetlands:

In the event that equipment staging could affect the potential wetland located near the Lucas Valley Road under crossing, ESA fencing would be needed to keep project activities and materials out of this area. This potential wetland may be delineated to determine whether is under the US Army Corps of Engineers (USACOE) jurisdiction.

Permits:

Full attention and effort should be given to preventing and sediments from running off the project site and entering Waters of the U.S. Release of sediments from the project site would require USACE's 404 Nationwide Permit, the California Department of Fish and Game's 1602 Agreement, and the U.S. Fish and Wildlife's Biological Opinion. In addition, a Clean Water Act Section 401 Water Quality Certification Permit from the Regional Water Quality Control Board would be required.

Mitigation:

The project requires implementation of standard Caltrans erosion control, housekeeping, and spill prevention Best Management Practices (BMP's). In addition, the project may require fencing of Environmentally Sensitive Area's (ESA) to prevent impacts to off-site resources.

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 Scope Summary Report (PSSR). 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.

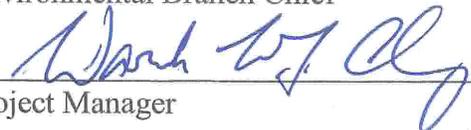
Review and Approval

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: 9/16/2011

REQUIRED ATTACHMENTS:

PEAR Environmental Studies Checklist
PEAR Environmental Commitments Cost Estimate

Environmental Technical Reports or Studies Required(4A000K)

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

PEAR Mitigation and Compliance Cost Estimate*

District 04	County Marin	Route US 101	PM 12.69, 13.71, 14.71	EA 4A000K
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Description of Work: Replace bridge railings at Freitas Parkway OC, Lucas Vally Road UC, North San Pedro Road UC.

Project Manager	Warwick W. T. Cheung	Date	
-----------------	----------------------	------	--

Prepared by	Phillip Badal	Date	
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	Mitigation			Compliance
	Project Feature ¹	Enviro. Obligation ²	Statutory Require. ³	Permit & Agreement ⁴
Fish & Game 1602 Agreement				
Coastal Development Permit				
State Lands Agreement				
NPDES Permit				
COE 404 Permit- Nationwide				
COE 401 Permit				
COE Section 10 Permit				
COE Section 9 Permit				
Other:				
Noise attenuation				
Special landscaping				
Archaeological				
Biological				
Wetland/riparian				
Historical				
Scenic resources				
Asbestos Testing/Mitigation				
Other: Landscaping				
TOTAL (included in project cost estimate)	TBD	TBD	TBD	TBD

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.

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

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

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

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

Evaluation Documentation Form

DATE: 09/13/2011_____

Project ID (or EA): 4A000K_____

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 Yes, go to 10. If No, 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 Yes, 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. _____(Dist./Reg. SW Coordinator initials) If No, continue to 4.
4.	Is the project located within an area of a local MS4 Permittee?	✓		If Yes. (<i>San Rafael</i>), go to 5. If No, document in SWDR go to 5.
5.	Is the project directly or indirectly discharging to surface waters?	✓		If Yes, continue to 6. If No, go to 10.
6.	Is it a new facility or major reconstruction?		✓	If Yes, continue to 8. If No, go to 7.
7.	Will there be a change in line/grade or hydraulic capacity?		✓	If Yes, continue to 8. If No, go to 10.
8.	Does the project result in a <u>net increase of one acre or more of new impervious surface</u> ?			If Yes, continue to 9. If No, go to 10. _____(Net Increase New Impervious Surface)
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. __TH__(Dist./Reg. Design SW Coord. Initials) __MK__(Project Engineer Initials) __09/13/2011_____(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



1. Project Description

This project, in the City of San Rafael, Marin County on Highway 101, will replace the bridge railing at the Freitas Parkway Overcrossing (Bridge No. 27-0080 @ PM 13.71) and the Lucas Valley Road Undercrossing (Bridge No. 27-0059 @ PM 14.71). Bridge No. 27-0080 will also include modifying the median and restriping to provide four 12 ft lanes, a 5 ft wide walkway, 2 ft median, and 8 ft and 4ft 7 in shoulders. In addition, at the North San Pedro Road Undercrossing (Bridge No. 27-0014S) @ PM 12.69, the deck will be grinded and methacrylate will be applied to meet the minimum height requirement.

The project is within the San Pablo – Novato hydrologic area (HSA 206.20). The closest waterways are Gallinas Creek (0.5 miles) and Miller Creek (0.3 miles), both on EPA's CWA Section 303(d) list of water quality limited segments for diazinon and considered TMDLs. No water quality high risk facilities are nearby.

No additional impervious area will result from the proposed work to create any permanent water quality impacts. No soil disturbance is anticipated. None of the bridges are over waterways. No right of way is required. A 401 certification is not anticipated for this project.

2. Construction Site BMPs

This project will require a Water Pollution Control Program (WPCP). The selection of Construction Site BMPs and the BMP deployment strategy will be developed with consultation of the Caltrans Storm Water Quality Handbooks and reference of past projects similar in size and scope. For cost estimating purposes at the planning phases, \$70,000 (1 percent) of the total project cost should be allocated for construction site BMPs.

3. Required Attachments¹

- Vicinity Map
- Evaluation Documentation Form
- ~~Construction Site BMP Consideration Form (required at PS&E only)~~
- ~~Risk Level Determination Documentation, if applicable.~~
- ~~Rainfall Erosivity Waiver, if applicable (required at PS&E)~~

¹ Additional attachments may be required as applicable or directed by the District/Regional Design Storm Water Coordinator (e.g. BMP line item estimate, DPP, CS checklists, etc).

