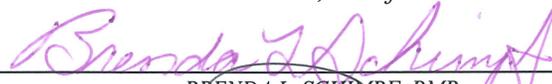


SUPPLEMENTAL PROJECT SCOPE SUMMARY REPORT (Drainage Rehabilitation)



On Route 80 PM 33/45 in Placer County from the 174/80 Junction to Alta Rd Overcrossing

I have reviewed the right of way information contained in this Supplemental Project Scope Summary Report and the R/W Data Sheet attached hereto, and find the data to be complete, current, and accurate:


BRENDA L. SCHIMPF, PMP
NORTH REGION/DIVISION CHIEF, RIGHT OF WAY

APPROVAL RECOMMENDED:


MIKE BARTLETT
PROJECT MANAGER

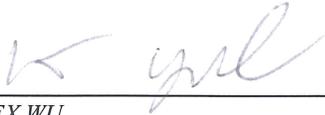
APPROVED:


JODY E. JONES
for DISTRICT DIRECTOR

9/2/11
DATE

03-PLA-80-PM 33 / 45
20.10.201.151 Program
EA: 1E050K
August 2011

This supplemental project scope summary report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.



ALEX WU
REGISTERED CIVIL ENGINEER



DATE



SUPPLEMENTAL PROJECT SCOPE SUMMARY REPORT (Drainage Rehabilitation)

I. Introduction

The purpose of this supplemental report is to update the Supplemental Project Scope Summary Report signed in September 2007. The project is proposed for inclusion in the 2012 SHOPP. The original project scope shall remain unchanged. However, the estimate has been updated to reflect the current cost changes. Culvert item prices were updated based on the most current cost data. Cost updates were requested from Right of Way, Landscape Architecture, and TMP and were included as provided by the respective functional unit. The resulting estimated total funding needed is \$4,684,000 for Construction and \$372,000 for Right of Way

II. Project Personnel

Mike Bartlett	Project Manager	(530) 788-3259
Crystal Ortiz	Right of Way	(530) 740-4908
Charles W. Laughlin	Design Senior	(530) 741-5506
Alex Wu	Project Engineer	(530) 741-4167
Dennis Jagoda	District Hydraulics Engineer	(530) 741-4517
Tammy Massengale	Environmental	(530) 741-4041
Brent Rogers	Maintenance	(530) 265-5538

III. List of Attachments

Attachment A- Programming Sheet
Attachment B- Six Page Estimate
Attachment C- Right of Way Data Sheet
Attachment D- Environmental Study Request Plans/PEAR
Attachment E- Transportation Management Plan (TMP) Data Sheet
Attachment F- Landscape Architecture Assessment Sheet

Attachment A- Programming Sheet

PROGRAMMING SHEET - 2011/2012

EA: 03-1e050
 Proj Name: PLA-080

Project Manager: Mike Bartlett
 Co-Rte-PM: PLA-080- 033.0/ 045.0

Date: 08/17/2011
 Type: SHOPP

PROJECT SCHEDULE

MILESTONE		DATE (STATUS)
Begin Environmental Document	M020	09/01/2012 (T)
Begin Project Report	M040	07/01/2012 (T)
Circulate Environmental Document (DED)	M120	09/01/2013 (T)
Project Approval & Environmental Document (PA&ED)	M200	11/01/2013 (T)
District Submits Bridge Site Data to Structures	M221	
Right of Way Maps	M224	05/01/2013 (T)
Regular Right of Way	M225	11/01/2013 (T)
District Plans, Specifications & Estimates to DOE	M377	11/01/2014 (T)
Draft Structures Plans, Specifications & Estimates	M378	
District Plans, Specifications & Estimates (PS&E)	M380	01/15/2015 (T)
Right of Way Certification	M410	04/01/2015 (T)
Ready to List (RTL)	M460	05/01/2015 (T)
Headquarters Advertise (HQ AD)	M480	08/01/2015 (T)
Approve Construction Contract	M500	11/01/2015 (T)
Contract Acceptance (CCA)	M600	12/01/2016 (T)
End Project	M800	12/01/2018 (T)

ESTIMATE	DATE	AMOUNT
ROADWAY	04/18/11	\$ 4225
BRIDGE		\$ 0
Subtotal Const		\$ 4225
RIGHT OF WAY	08/31/07	\$ 372
MITIGATION		\$ 0
Subtotal RW		\$ 372
GRAND TOTAL		\$ 4597

EXISTING PROGRAMMING	
PAED	\$
PS&E	\$
RW - Sup	\$
RW - Cap	\$
Const - Sup	\$
Const - Cap	\$

*Does not apply to RW Capital + Not Escalated ++ Only Escalated to 1 year into Future

PROJECT COSTS BY SB45 CATEGORY

CAPITAL COST ESTIMATE (Escalation Factor)	Prior Yrs+	11/12+	12/13 (3.5%)	13/14 (3.5%)	14/15 (3.5%)	15/16 (3.5%)	Future++ (3.5%)	Total	
Right of Way			372					\$ 372	
Construction					4684			\$ 4,684	
CAPITAL COSTS TOTAL								\$ 5,056	
SUPPORT COSTS (Escalation Factor)			(1.5%)	(1.5%)	(1.5%)	(1.5%)	(1.5%)		Sup/Cap
PAED			619	187				\$ 806	15.94%
PS&E				511	318	24		\$ 853	16.87%
Right of Way			17	121	102	16	36	\$ 293	5.79%
Construction						479	429	\$ 908	17.96%
SUPPORT COSTS TOTAL								\$2,860	56.56%
TOTAL PROJECT COSTS								\$ 7,916	

PROJECT SUPPORT IN PYS

	Prior Yrs	11/12	12/13	13/14	14/15	15/16	Future	Total	PY %
Environmental	0.00	0.00	1.05	0.73	0.28	0.04	0.07	2.17	10.83%
Design	0.00	0.00	0.78	1.63	0.59	0.05	0.06	3.11	15.52%
Engineering Services	0.00	0.00	0.80	0.65	0.58	0.10	0.19	2.32	11.58%
Surveys	0.00	0.00	0.99	0.81	0.13	0.12	0.17	2.22	11.08%
Right of Way	0.00	0.00	0.09	0.90	0.92	0.08	0.17	2.16	10.78%
Traffic	0.00	0.00	0.11	0.27	0.08	0.02	0.02	0.50	2.50%
Construction	0.00	0.00	0.05	0.12	0.09	2.80	2.17	5.23	26.10%
Project Management	0.00	0.00	0.32	0.27	0.27	0.13	0.16	1.15	5.74%
District Units*	0.00	0.00	0.40	0.48	0.19	0.04	0.07	1.18	5.89%
Subtotal Dist/Region Resources	0.00	0.00	4.59	5.86	3.13	3.38	3.08	20.04	100.00%
59-DES Project Development	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
59-DES Structures Foundation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
59-Office Engineer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
59-DES Project Management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
59-DES Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
59-DES Other Units**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
Subtotal DES Resources	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
TOTAL PYS	0.00	0.00	4.59	5.86	3.13	3.38	3.08	20.04	

*Admin, Plng, Maintenance

**DES Admin, DES Plng, DES Maintenance

HRS/PYS = 1758

Comments:

Attachment B- Six Page Estimate

PROJECT SCOPE SUMMARY REPORT COST ESTIMATE



Dist-Co-Rte	<u>03-PLA-80</u>
KP (PM)	<u>PM 33/45</u>
EA	<u>03-1E050K</u>
Program Code	<u>20.10.201.151</u>

PROJECT DESCRIPTION:

Limits: PLA 80 from PM 33.0 to PM 45.0

Proposed Improvement (Scope): Line or invert pave corroded and damaged corrugated metal pipe culverts.
Culverts will be lined using Cured-in-Place (CIPP) method
Shotcrete invert paving will rehab larger diameter units

Alternative: Build

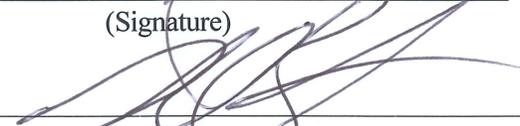
SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$ <u>4,225,000</u>
TOTAL STRUCTURE ITEMS	\$ <u>0</u>
SUBTOTAL CONSTRUCTION COSTS	\$ <u>4,225,000</u>
TOTAL RIGHT OF WAY ITEMS	\$ <u>325,125</u>
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$ <u>4,550,125</u>
TOTAL PROJECT CAPITAL OUTLAY COSTS (1 Year escalation of 3.5%)	\$ <u>4,710,000</u>
TOTAL PROJECT CAPITAL OUTLAY COSTS (1 Year escalation of 3.5%)	\$ <u>4,875,000</u>
TOTAL PROJECT CAPITAL OUTLAY COSTS (1 Year escalation of 3.5%)	\$ <u>5,046,000</u>
	\$ <u>5,100,000</u>

SAY

Prepared by
Project Engineer: 
 (Signature)

5/18/11
 (Date)

Approved by
Project Manager: 
 (Signature)

 (Date)

PROJECT SCOPE SUMMARY REPORT COST ESTIMATE

Dist-Co-Rte	<u>03-PLA-80</u>
KP (PM)	<u>PM 33/45</u>
EA	<u>03-1E050K</u>

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	_____	_____	_____	\$0	
Imported Borrow	_____	_____	_____	\$0	
Clearing & Grubbing	1.0	Lump Sum	\$20,000	\$20,000	
				Subtotal Earthwork:	<u>\$20,000</u>

Section 2 - Structural Section*

OGAC	_____	_____	_____	\$0	
AC (type A)	_____	_____	_____	\$0	
Additional AC	_____	_____	_____	\$0	
Lean Concrete Base	_____	_____	_____	\$0	
Cement-Treated Base	_____	_____	_____	\$0	
Aggregate Base (class 2)	_____	_____	_____	\$0	
Treated Permeable Base	_____	_____	_____	\$0	
Agg. Subbase (class 2)	_____	_____	_____	\$0	
Pvmt Reinforcing Fabric	_____	_____	_____	\$0	
Edge Drains	_____	_____	_____	\$0	
Paint Binder	_____	_____	_____	\$0	
				Subtotal Structural Section:	<u>\$0</u>

Section 3 - Drainage

Remove flared end Section	0	EA	\$1,000	\$0
15" plastic pipe liner	0	LF	\$200	\$0
Replace downdrain	584	LF	\$61	\$35,624
12" Cured-in-place Pipe Liner	160	LF	\$140	\$22,400
18" Cured-in-place Pipe Liner	1,256	LF	\$155	\$194,680
24" Cured-in-place Pipe Liner	4,285	LF	\$140	\$599,900
30" Cured-in-place Pipe Liner	1,811	LF	\$170	\$307,870
36" Cured-in-place Pipe Liner	1,270	LF	\$175	\$222,250
42" Cured-in-place Pipe Liner	228	LF	\$275	\$62,700
48" Cured-in-place Pipe Liner	0	LF	\$290	\$0
18" steel FES	0	EA	\$1,350	\$0
24" steel FES	0	EA	\$1,500	\$0

PROJECT SCOPE SUMMARY REPORT COST ESTIMATE

Dist-Co-Rte	<u>03-PLA-80</u>
KP (PM)	<u>PM 33/45</u>
EA	<u>03-1E050K</u>

	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
30" steel FES	<u>0</u>	<u>EA</u>	<u>\$1,700</u>	<u>\$0</u>	
36" steel FES	<u>0</u>	<u>EA</u>	<u>\$2,000</u>	<u>\$0</u>	
42" steel FES	<u>0</u>	<u>EA</u>	<u>\$2,350</u>	<u>\$0</u>	
48" steel FES	<u>0</u>	<u>EA</u>	<u>\$2,500</u>	<u>\$0</u>	
Minor conc. Invert Paving	<u>0</u>	<u>Ft3</u>	<u>\$80</u>	<u>\$0</u>	
				Subtotal Drainage:	<u>\$1,445,000</u>

<u>Section 4 - Specialty Items</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
TRO	<u>1</u>	<u>Lump Sum</u>	<u>\$144,500</u>	<u>\$144,500</u>	
Landscape	<u>1</u>	<u>Lump Sum</u>	<u>\$360,000</u>	<u>\$360,000</u>	
Haz. Waste (PSI)	<u>1</u>	<u>Lump Sum</u>	<u>\$15,000</u>	<u>\$15,000</u>	
Environmental Mitigation	<u>1</u>	<u>Lump Sum</u>	<u>\$285,000</u>	<u>\$285,000</u>	
BMP	<u>1</u>	<u>Lump Sum</u>	<u>\$15,000</u>	<u>\$15,000</u>	
Water Pollution Control	<u>1</u>	<u>Lump Sum</u>	<u>\$20,000</u>	<u>\$20,000</u>	
				Subtotal Specialty Items:	<u>\$840,000</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>
Traffic Management Plan	<u>1</u>	<u>Lump Sum</u>	<u>\$300,000</u>	<u>\$300,000</u>	
COZEEP	<u>1</u>	<u>Lump Sum</u>	<u>\$240,000</u>	<u>\$240,000</u>	
				Subtotal Traffic Items:	<u>\$540,000</u>
				TOTAL SECTIONS 1 thru 5	<u>\$2,845,000</u>

<u>Section 6 - Minor Items</u>		<u>Item Cost</u>	<u>Section Cost</u>
	<u>\$2,845,000</u>	x <u>0.10</u>	<u>\$284,500</u>
	(Subtotal Sections 1 thru 5)	(10%)	
			TOTAL SECTION 6 MINOR ITEMS: <u>\$284,500</u>

PROJECT SCOPE SUMMARY REPORT COST ESTIMATE

Dist-Co-Rte	<u>03-PLA-80</u>
KP (PM)	<u>PM 33/45</u>
EA	<u>03-1E050K</u>

Section 7 - Roadway Mobilization

<u>\$3,129,500</u>	x	<u>0.10</u>	=	<u>\$312,950</u>
(Subtotal Sections 1 thru 6)		(10%)		
TOTAL SECTION 7 MOBILIZATION ITEMS:				<u>\$312,950</u>

Section 8 - Roadway Additions

Supplemental Work

<u>\$3,129,500</u>	x	<u>0.10</u>	=	<u>\$312,950</u>
(Subtotal Sections 1 thru 6)		(10%)		

Contingencies

<u>\$3,129,500</u>	x	<u>0.15</u>	=	<u>\$469,425</u>
(Subtotal Sections 1 thru 6)		(15%)		

TOTAL SECTION 8 ROADWAY ADDITIONS: \$782,375

TOTAL ROADWAY ITEMS: \$4,225,000
(Subtotal Sections 1 thru 8)

Estimate Prepared by:	<u>Alex Wu</u>	Phone:	<u>530-741-4167</u>	<u>4/18/11</u>
	(Print Name)			(Date)

Estimate Checked by:	<u>Mai T Nguyen</u>	Phone:	<u>530-741-4142</u>	<u>4/18/11</u>
	(Print Name)			(Date)

PROJECT SCOPE SUMMARY REPORT COST ESTIMATE

Dist-Co-Rte	<u>03-PLA-80</u>
KP (PM)	<u>PM 33/45</u>
EA	<u>03-1E050K</u>

III. RIGHT OF WAY ITEMS

	<u>Current Values (Future Use)</u>	<u>Escalation Rates</u>	<u>Escalated Values*</u>
Total Acquisition Cost	<u>\$43,125</u>	<u>5.0%</u>	<u>\$49,332.00</u>
Mitigation acquisition & credits	<u>\$240,000</u>	<u>2.0%</u>	<u>\$274,544.00</u>
Project Development Permit Fees	<u>\$42,000</u>	<u>0.0%</u>	<u>\$48,045.00</u>
Subtotal	<u>\$325,125</u>	<u>0.0%</u>	<u>\$371,921</u>
Utility Relocation (State share)	<u>\$0</u>	<u>0.0%</u>	<u>\$0.00</u>
Relocation Assistance (RAP)	<u>\$0</u>	<u>0.0%</u>	<u>\$0.00</u>
Clearance/Demolition	<u>\$0</u>	<u>0.0%</u>	<u>\$0.00</u>
Title & Escrow	<u>\$0</u>	<u>0.0%</u>	<u>\$0.00</u>
 TOTAL RIGHT OF WAY (CURRENT VALUE)**	 <u>\$325,125</u>	 ESC. R/W*	 <u>\$372,000</u>

* Escalated to assumed year of advertising.

** Current total value for use on Sheet 1 of 6

Estimate Prepared by:	<u>Kelly Kilpatrick</u>	Phone:	<u>530-740-4915</u>	<u>4/14/11</u>
	(Print Name)			(Date)

Attachment C- Right of Way Data Sheet

Memorandum

*Flex your power!
Be energy efficient!*

To: Chuck Laughlin
Chief, Design M7
Department of Transportation, District 3

Attention Alex Wu
Project Engineer

Date: April 15, 2011
E.A.: 1E050K
PN: 0300020600
File: 03-PLA-80 PM 33.0/45.0
Drainage System Restoration

From: JOHN BALLANTYNE
Assistant Division Chief, North Region Right of Way

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 information received from you on March 22, 2011 .

Right of Way requests a minimum of 17 months lead time after we receive the final appraisal maps and environmental clearance.

Attachments:
Right of Way Data Sheet

cc. Mike Bartlett

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY DATA SHEET



Date: April 15, 2011
 E.A. 1E050K
 PN: 0300020600
 File: 03-PLA-80 PM 33.0/45.0

1. Right of Way Cost Estimate:

	Current Value Future Use	Escalation Rate	Escalated Value
A. Total Acquisition Cost	\$43,125	5%	\$49,332
B. Mitigation acquisition & credits	\$240,000	5%	\$274,544
C. Project Development Permit Fees	\$42,000	5%	\$48,045
Subtotal	\$325,125		\$371,922
D. Utility Relocation (State Share) (Owner's share: _____ \$0)	\$0		\$0
E. Relocation Assistance (RAP)	\$0		\$0
F. Clearance/Demolition	\$0		\$0
G. Title & Escrow	\$0		\$0
H. Total Estimated Right of Way Cost	\$325,125	Rounded	\$372,000
I. Construction Contract Work	\$0		

2. Current Date of Right of Way Certification

January 15, 2014

3. Parcel Data:

Type	Dual/Appr	Utilities	RR Involvements
X	0	U4 - 1	None
A	0	- 2	C&M Agrmt
B	13	- 3	Svc Contract
C	0	- 4	Easements
D	0	U5 - 7	Rights of Entry
	0	- 8	Clauses
Total	13	- 9	
Areas:		Misc. R/W Work	
R/W:	107955.65 Ac.	RAP Displ	N/A
Excess:	N/A	Clear/Demo	N/A
Mitigation:	N/A	Const Permits	N/A
	No. Excess Pcls: 0	Condemnation	3
		USA Involvement	Yes

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY DATA SHEET

4. Are there any major items of construction contract work?

Yes _____ No X

None have been identified at this time.

5. Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.)

There are 13 temporary construction easements needed for access to rehabilitate the culverts in this project. The property types include vacant land, single family residences and a mobile home lot. In addition, we will need a right of entry from Union Pacific Railroad.

6. Are any properties acquired for this project expected to be rented, leased, or sold?

Yes _____ No X

7. Is there an effect on assessed valuation?

No X

Yes _____ Not Significant _____

8. Are utility facilities or rights of way affected?

Yes _____ No X

According to the P.E. there are no utility conflicts or relocations in connection with this project.

9. Are railroad facilities or rights of way affected?

Yes X No _____

There are 2 temporary construction easements. Right of way will acquire a right of entry from Union Pacific Railroad.

10. Were any previously unidentified sites with hazardous waste and/or material found?

Yes _____ None Evident X

11. Are RAP displacements required?

Yes _____ No X

No. of single family

No. of business/nonprofit

No. of multi-family

No. of farms

RAP benefits have not been estimated as the mapping was insufficient to determine if Relocation Assistance will be required.

12. Are there material borrow and/or disposal sites required?

Yes _____ No X

13. Are there potential relinquishments and/or abandonments?

Yes _____ No X

14. Are there any existing and/or potential airspace sites?

Yes _____ No X

15. Indicate the anticipated Right of Way schedule and lead time requirements.

Right of Way requests a minimum of 17 months lead time after we receive the final appraisal maps and environmental clearance.

MEMORANDUM**Date:** February 10, 2011**To:** | MS. JENNIFER LOWDENNorth Region Right of Way
Project Delivery, Marysville**File:** 03-Pla-80-PM 33/45**E.A.:** 03-1E050K

ATTN: Crystal Ortiz

Proj Desc Drainage System Rebab**From:** Alex Wu
Design-M7 (03-0328)**Subject:** An Update Right of Way Data Sheet Request

The above referenced highway project will require a Right of Way Data Sheet by February 22, 2011. The following information is submitted:

Right of Way

- All work will be performed within the existing right of way. However, a couple of TCE's are needed
- Additional right of way will be required.
Information and maps (See description of attachments on last page of this request.)
- Attached showing graphic geometrics and approximate right of way (per PDPM Appendix L guidelines).
- Sent to Right of Way on .
- Other (explain)

Obstructions

- The area required for the work is clear of all obstructions and/or improvements. As stated above, no new r/w, however, trees may need to be removed within existing r/w.
- Clearance of improvements will be required. Improvements are shown on the attached map.

Railroads

- There is no railroad involvement.
- Work on railroad property will be required.
Information: Attached
 Was sent to Right of Way on .

United States Forest Service

- There is no United States Forest Service involvement.
- Project work will be within US Forest Service lands.
Information: Attached
 Was sent to Right of Way on .

Material Disposal Site

- None required
- Optional
- Mandatory

Utility Disposition

- There are no known utility relocations in connection with this project.
- Utility relocation work required.
 Information: Attached
 Was sent to Right of Way on .

High and Low Risk Underground Facilities

- There are no high-risk facilities within the construction area.
- This project conforms to the manual on high and low risk underground facilities within highway rights of way.

Hazardous Waste

- There are no hazardous waste sites evident.
- Hazardous waste evident.
 Information: Attached
 Was sent to Right of Way on .

Relinquishments and/or Abandonments

- There are no planned relinquishments or abandonments on this project.
- There may be relinquishments or abandonments on this project. Information sent to Right of Way on .

Environmental Permits

- There are no planned environmental permits on this project.
- Environmental permits will be required on this project.
 1601 401 NPDES Other
 Explain: and also 404 permit

Environmental Mitigation

- There is no planned environmental mitigation on this project.
- Environmental mitigation is anticipated on this project.
- Unknown

Alex Wu	(530) 741-4167	February 10, 2011
Project Engineer	Phone	Date
Name of Chief	Chuck Laughlin (530) 741-5506	

Address (Mail Station) Design M-7 (03-0328)
Scheduled Right of Way Certification Date

Brief Project Description:

To rehabilitate existing culverts along Route 80 PM 33/45 The rehabilitation method will be by lining the cross-culvert portion of the drainage system while down-drains / over-side-drains will be removed and replaced.

Attachments:

- 1) Location Map (two copies)
- 2) Site plans (four copies) showing:
 - Existing right of way
 - Existing and proposed highway centerline
 - Proposed right of way requirements with parcels outlined in color
 - Property owners and their contiguous parcels
 - Improvements
 - Existing utilities and potential conflicts
 - North arrow and scale 1 inch = 100 feet or 1 inch = 50 feet
 - Assessor's parcel numbers
 - Township, range, and section numbers
 - Any property under the control of the State Lands Commission
- 3) The following information:
 - Required areas (in feet or acres) and degree of ownership (fee or easement, temporary or permanent).
 - If temporary rights, for how long?
 - Estimated cost of Construction Contract Work (fencing, road approaches, underpasses, private frontage roads, etc.)
- 4) This is in K-phase. There are currently 43 culverts

cc: Alex Wu, Design (03-0328)
Ali Kiani, Project Manager, (with attachments)
Ginger Congi & Dave Thibeault, (Marysville), (with mapping)

**Attachment D- Environmental Study
Request/PEAR**

Preliminary Environmental Analysis Report

Project Information

District 03 County PLA Route 80 Postmile PM 33.0 / 45.0 EA 1E050K

Project Title: Rehabilitation of existing drainage system along the Highway 80 PM 33.0/45.0

Project Manager: Mike Bartlett Phone # (530) 740-4805

Project Engineer: Jesse Garcia Phone # (530) 741-4001

Environmental (Manager) Office Chief: Tammy Massengale Phone # (530) 741-4240

Environmental Planner Generalist: Denise Gibson Phone # (530) 741-4038

Project Description

Purpose and Need:

The purpose of the project is to rehabilitate the existing drainage systems by method of replacement or lining. This work is designed to preserve and extend the culvert drainage systems' service life. There are approximately 43 culverts that are planned to be rehabilitated within this project area. Due to their age, the culverts are deteriorating. Access roads are planned to be constructed at various culvert sites.

Description of work: The drainage system rehabilitation project is proposed along Route 80, from PM 33.0 to PM 45.0. Drainage systems consist of over-side drains, down-drains or cross-culverts with or without down-drains. Rehabilitating these systems will either be by replacement or by lining. Improvements may include permanent water quality treatment BMP's.

The following are three construction scenarios anticipated with the disturbance area noted:

Scenario 1 – Down-drains/Over-side drains: These systems will be removed and replaced. A working radius of (20 ft) around the system is needed.

Scenario 2 – Cross-culvert with Down-drain: The cross-culvert portion of this system will be lined and the down-drain portion removed and replaced. A working radius of (20 ft) around the system is needed.

Scenario 3 – Cross-culvert only: This system will be lined. A working radius of (20 ft) around the system is needed.

All work for the project will occur within the existing Caltrans R/W.

Anticipated Environmental Approval

CEQA

- Categorical/Statutory Exemption
- Negative Declaration / focused ND
- Environmental Impact Report

NEPA

- Categorical Exclusion
- Finding of No Significant Impact
- Environmental Impact Statement

At some of the 43 culvert locations, the proposed rehabilitation would have the potential to impact cultural and biological (including wetlands) resources. Impacts to these resources would require regulatory agency permits, development and implementation of mitigation measures.

It is estimated that completion of the environmental process will require up to 23 months¹. It should be noted that because of any unforeseen delays and issues that may occur in coordinating with federal resource agencies, the time required to attain environmental approval could change considerably. A matrix identifying resources needed to complete environmental studies is included (see Attachment B).

Field surveys for sensitive plant and wildlife species will take approximately one month and should be conducted between March and June. Formal consultation and/or coordination with the California Fish and Game, Army Corp of Engineers and the Regional Water Quality Control Board could take up to 12 months. It is expected that tasks required to comply with Section 106 of the National Historic Preservation Act could be completed between 6 to 15 months. If archaeological resources are identified and found to be eligible for National Historic listing, the schedule for completing Section 106, the timeline could be extended another two years. A water Quality Analysis is needed and coordination with the State Resources Control Board may be required. A Visual Impact Assessment will be required to determine impacts to scenic resources.

If further studies indicate a lack of sensitive environmental resources within the project area and/or if changes are made to the project scope that would result in the reduction of potential impacts to sensitive environmental resources, it is possible that environmental clearance could be attained with a Categorical Exemption, pursuant to the California Environmental Quality Act, and a Categorical Exclusion or Programmatic Categorical Exclusion, pursuant to the National Environmental Policy Act.

PSR Summary Statement

In order to identify environmental issues, constraints, costs and resource needs, the North Region Office of Environmental Planning prepared a Preliminary Environmental Analysis Report (PEAR) for the project. Preliminary studies consisted of field surveys and a review of records and databases. Based on current information, it is anticipated that an environmental study is to be completed to determine the appropriate environmental document for this project. The anticipated environmental document is a Negative Declaration pursuant to the California Environmental Quality Act (CEQA) and a Finding of No Significant Impact pursuant to the National Environmental Policy Act (NEPA). Potential impacts requiring further study include:

¹ Assumes that task 165 "Begin Environmental" commences in September of 2006.

- Biological Resources
- Cultural and Historical Resources
- Water Quality
- Hazardous Waste
- Air Quality
- Noise Quality
- Visual Quality
- Floodplain Study

Special Considerations

The project will require a biological assessment for sensitive plant and wildlife species found within the limits of the project area. This assessment will need to be accomplished between the months of March and June. Formal consultation with the California Department of Fish and Game will be necessary. Additionally, the project may impact up to two acres of wetlands. Which could require a 404 permit from the U.S. Army Corps of Engineers (USACE). It is expected that compliance with Section 106 of the National Historic Preservation act could be completed within 6-15 months. If archaeological resources are identified in the project area, the schedule for completing Section 106 could be an additional year, for a total of two years. Replacement of vegetation and tree measures should take visual quality and erosion/sediment control into consideration. A Visual Impact Assessment will be needed to identify the impacts to the scenic resources from the proposed project. Permits to Enter will be required for biological and archaeological surveys. Environmental will request Right of Way to notify the property owners and their tenants before the property can be accessed to conduct these surveys.

Anticipated Project Mitigation

Mitigation estimates are based on preliminary studies from existing plans and without necessary consultation with state and federal resource agencies. Mitigation costs for archaeological and biological resources are summarized in the Mitigation and Compliance Cost Estimate (Attachment A). The final mitigation costs may vary considerably from those provided in this document. The need for mitigation measures will be determined during the environmental studies for this project. At this preliminary stage, the following measures to conserve resources or compensate for the loss of resources have been identified in biological and archaeological resources:

Consultation with California Department of Fish and Game (CDFG) and other resource agencies may require mitigation for the loss of habitat and possible impacts to wildlife. The CDFG may require mitigation for the loss of the trees and other vegetation. Consultation with any of the resource agencies is dependent upon the outcome of the tree, vegetation, wetlands, habitat, wildlife and other studies.

The Migratory Bird Treaty Act of 1918 protects most native North American birds (including raptors, migratory and resident birds), their nests, and eggs. Tree removal, trimming and construction related activities can result in the disruption of roosting, breeding and nesting and would be a violation of this act. To avoid any violations, nest trees will be removed outside the nesting season (February through August), or after a Caltrans biologist verifies that the nest is empty and the adult and young birds no longer use the nest trees.

If wetlands and waters of the U.S. are found, consultation with the USACE and the Regional Water Quality Control Board (RWQCB) would be required. There is a potential for impact up to two acres of wetlands. Complete mapping, project description and ESL will need to be provided before the habitat and wildlife studies can be conducted, before consultation can begin and before the dollar amount of the permits and mitigation ratios can be completely calculated.

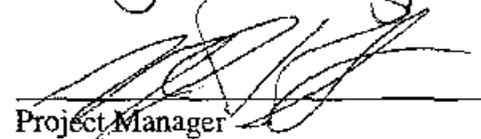
In the event that resources eligible for the National Register of Historic Places (NRHP) are identified and will be impacted by the project, a Finding of No Adverse Effect (FNAE) or a Finding of Adverse Effect (FAE) must be prepared and processed for concurrence by the Federal Highways Administration (FHWA) and the Office of Historic Preservation (State of California). This will extend the deadline an additional year.

Disclaimer

This report is not an environmental document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in this report. The estimates and conclusions provided are approximate and are based on cursory analysis of probable effects. This report is to provide a preliminary level of environmental analysis to supplement the Project Study Report. Changes in project scope, alternatives, or environmental laws will require a re-evaluation of this report.

Reviewed by:

 Date: 8/29/05
Environmental Office Chief

 Date: 8/29/05
Project Manager

Environmental Technical Reports or Studies Required

	Study	Document	N/A
Community Impact Study	<input type="checkbox"/>	<input type="checkbox"/>	X
Farmland	<input type="checkbox"/>	<input type="checkbox"/>	X
Section 4(f) Evaluation	<input type="checkbox"/>	<input type="checkbox"/>	X
Visual Resources	X	<input type="checkbox"/>	<input type="checkbox"/>
Water Quality	X	<input type="checkbox"/>	<input type="checkbox"/>
Floodplain Evaluation	X	<input type="checkbox"/>	<input type="checkbox"/>
Noise Study	<input type="checkbox"/>	X	<input type="checkbox"/>
Air Quality Study	<input type="checkbox"/>	X	<input type="checkbox"/>
Paleontology	<input type="checkbox"/>	<input type="checkbox"/>	X
Wild and Scenic River Consistency	<input type="checkbox"/>	<input type="checkbox"/>	X
Cumulative Impacts	<input type="checkbox"/>	<input type="checkbox"/>	X
Cultural			
ASR	X	<input type="checkbox"/>	<input type="checkbox"/>
HPSR	X	<input type="checkbox"/>	<input type="checkbox"/>
HRER	X	<input type="checkbox"/>	<input type="checkbox"/>
Section 106 / SHPO	X	<input type="checkbox"/>	<input type="checkbox"/>
Native American Coordination	X	<input type="checkbox"/>	<input type="checkbox"/>
Hazardous Waste			
ISA (Additional)	<input type="checkbox"/>	X	<input type="checkbox"/>
PSI	X	<input type="checkbox"/>	<input type="checkbox"/>
Other			
Biological			
Endangered Species (Federal)	X	<input type="checkbox"/>	<input type="checkbox"/>
Endangered Species (State)	X	<input type="checkbox"/>	<input type="checkbox"/>
Species of Concern (CNPS, USFS, BLM, S, F)	X	<input type="checkbox"/>	<input type="checkbox"/>
Biological Assessment (USFWS, NMFS, State)	X	<input type="checkbox"/>	<input type="checkbox"/>
Wetlands	X	<input type="checkbox"/>	<input type="checkbox"/>
Invasive Species	<input type="checkbox"/>	X	<input type="checkbox"/>
Natural Environment Study	X	<input type="checkbox"/>	<input type="checkbox"/>
NEPA 404 Coordination	<input type="checkbox"/>	<input type="checkbox"/>	X
Permits			
401 Permit Coordination	X	<input type="checkbox"/>	<input type="checkbox"/>
404 Permit Coordination	X	<input type="checkbox"/>	<input type="checkbox"/>
1601 Permit Coordination	<input type="checkbox"/>	X	<input type="checkbox"/>
City/County Coastal Permit Coordination	<input type="checkbox"/>	<input type="checkbox"/>	X
State Coastal Permit Coordination	<input type="checkbox"/>	<input type="checkbox"/>	X
NPDES Coordination	X	<input type="checkbox"/>	<input type="checkbox"/>
US Coast Guard (Section 10)	<input type="checkbox"/>	<input type="checkbox"/>	X

Discussion of Technical Review

AIR AND NOISE This project will be evaluated for regional and local air quality impacts. This screening process will be according to the Caltrans Transportation Project-Level Carbon Monoxide Protocol (UCD-ITS-RR-97-21).

The noise analysis for this project will also utilize the Caltrans Transportation Project-Level screening process based on the Caltrans Traffic Noise Analysis Protocol.

BIOLOGICAL RESOURCES A preliminary biological field survey has been conducted for this project. The rehabilitation of the 43 culverts includes the removal of trees and other vegetation. Surveys for wildlife and vegetation within the project area are required. These biological surveys will take approximately 30 days.

The Migratory Bird Treaty Act of 1918 protects migratory birds, their nests, and eggs from destruction. Tree removal, trimming and construction related activities can result in the disruption of roosting, breeding and nesting and would be a violation of this act. To avoid any violations, nest trees will be removed outside the nesting season (February through August), or after a Caltrans biologist verifies that the nest is empty and the adult and young birds no longer use the nest trees.

A Caltrans biologist will conduct site visit surveys (including any staging and/or storage areas) no more than 14 days prior to the initiation of the construction activities during the early part of the breeding season (February through April) and no more than 30 days prior to the initiation of these activities during the late part of the breeding season (May through August). If migratory birds are found to be using the site, the CDFG will be consulted.

Consultation with the CDFG and/or other resources agencies regarding project related studies and impacts could take approximately 90 to 120 days. However, consultation with any of the resource agencies is dependent upon the outcome of the tree, vegetation, habitat, wildlife and other studies.

Depending on the size of the trees and the types of vegetation to be removed, the California Department of Fish and Game (CDFG) may be notified and consulted. The CDFG may require mitigation for the loss of the trees and other vegetation. For other Caltrans projects, CDFG has required that the loss of certain native trees be mitigated for one seedling per one inch of Diameter Breast Height (DBH) ratio.

Wetlands may be identified in or near the project area. Wetlands that can be avoided would be designated as Environmental Sensitive Areas (ESAs). These areas would be delineated on the contract plans, fenced and clearly identified prior to construction. To avoid further impacts to the surrounding habitat(s) at the various culvert locations, ESA fencing or flagging will be used to prevent workers from disturbing the habitat outside the necessary work areas and access roads. The contractor would be instructed that no disturbance, equipment storage or other encroachment is to occur within the ESAs.

Wetlands that cannot be avoided by construction activities shall be reconstructed to their original grade following completion of construction. A mix of native species common to sumps and wet meadows in the project area shall be planted in the affected areas following construction. If wetlands and waters of the U.S. are found, consultation with the USACE and the RWQCB would be required. There is a potential for up to two acres of impact to wetlands within this project. The USACE would require a Section 404 permit and the RWQCB may require a Section 401 permits. Consulting with these resource agencies and acquiring the permits could take 90 days or more. If it is necessary to dewater streams, stream diversions would be required to allow fish passage.

At this time, the USACE Section 404 permit is undetermined until the complete mapping, project description and ESL can be conducted. At the best-case scenario, if impacts are less than .5 acre, then a Nationwide permit would be issued. The timeline for this permit may be up to six months. At worse case scenario, if impacts are less than 2 acres, then an Individual permit would be needed. The timeline for this permit may be up to two years, however, a Letter of Permission could be issued. If a Letter of Permission is issued under the Individual Permit, the timeline may be one year.

Complete mapping, project description and Environmental Study Limits (ESL) will need to be provided before the tree and vegetation studies can be conducted and before consultation can begin.

If the project plan or scope changes, the Caltrans Environmental Planning Office in Marysville must be notified and permits may be required.

COASTAL ZONE N/A

COMMUNITY AND SOCIAL-ECONOMIC EFFECTS The project is not expected to have any effects on the local community or the economy.

CULTURAL RESOURCES Historic Properties Survey Report will be prepared in order to comply with the regulations set forth in the California Environmental Quality Act (CEQA) and Section 106 of the National Historic Preservation Act (NHPA). This report will summarize and contain as attachments the archaeological, historical, and architectural survey reports, as necessary for the project.

It does not appear that any structures within the project area will require evaluation by an architectural historian. If historic properties are identified within the project area, additional evaluations and reports may be required.

The following tasks are required to comply with Section 106 of the National Historic Preservation Act:

- Preparation of an Area of Potential Effects (APE) map.
- Conduct a record search at the appropriate Information Center of the California Historical Resources Information System (CHRIS) and review previous cultural resource study reports to determine the need for additional surveys.

- Consultation with the United States Forest Service to complete required research.
- Conduct an archaeological survey of all areas not previously examined by a professional archeologist and prepare an Archaeological Survey Report.
- Native American coordination (performed concurrent to other work).
- Prepare a Historic Property Survey Report.
- Possibly conduct a historical study of the project area and prepare a Historic Resources Evaluation Report.
- If cultural resources are identified prepare a Determination of Eligibility (DOE)-Phase II.
- If resources eligible for the National Register of Historic Places are identified, prepare a Finding of Effects (FOE), with a Memorandum of Agreement (MOA).
- If sites require mitigation, prepare a Data Recovery Plan (DRP)-Phase III.
- Coordination with the Federal Highway Administration and the Office of Historic Preservation (State of California).

Archaeological studies for any identified archaeological resources cannot be conducted until an Area of Potential Effects (APE) is delineated. If no archaeological resources are identified within the project APE, the time required for compliance with Section 106 is estimated at six months. If Phase II (DOE) studies are required for the purpose of evaluating sites for eligibility to the National Register of Historic Places (NRHP), the schedule for completing Section 106 would be extended by nine months to a total of fifteen months. If data recovery is needed (Phase III), an additional nine months, to a total of 24 months, will be needed for compliance. In addition, it is likely that Caltrans would have to retain a consultant to accomplish this work. The estimated time to complete the various tasks does not include time spent in obtaining permits to enter from landowners, which could cause delays in completing Section 106 studies.

Since prehistoric and historic resources are expected to be encountered. In the most pessimistic scenario it is approximated that five sites may be identified. Caltrans would more than likely have to retain a consultant to accomplish any Phase II work, which may cost in excess of \$75,000 per site.

For sites eligible for the NRHP at which further excavation will be done to compensate for project impacts, a Data Recovery Plan (DRP) must be prepared and attached to the finding. Any data recovery fieldwork (i.e., Phase III work) must be completed prior to construction of the project, which may cost in excess of \$100,000 or more per site. It is approximated that one site may be identified that is eligible for the NRHP.

If no archaeological resources are identified within the project APE, the time allocated for Section 106 compliance would be greatly reduced. In the case of negative findings for the project, a time frame of six months may be sufficient, dependent on workload.

Any subsequent changes in the project scope may require additional archaeological or historical review.

FARMLANDS N/A

FLOODPLAIN A Floodplain Hydraulic Study for this project was completed in August 2005. This project is not anticipated to impact on a designated floodplain.

HAZARDOUS WASTE/MATERIALS Based on the Initial Site Assessment, two potential hazardous waste/material issues have been identified for the project as proposed. These two issues are identified as aerially deposited lead and naturally occurring asbestos. To assess the impacts of these potential issues, a Preliminary Site Investigation (PSI) is required for the proposed project. As the PSI takes 3-6 months to complete, OEES recommends that the project engineer request that the PSI is initiated at least 6 months prior to final PS&E.

INVASIVE PEST PLANT SPECIES Measures to prevent and control the spread of invasive plant species are required pursuant to Executive Order 13112. A survey may be needed to determine the presence of invasive species and the likelihood of the project to allow the introduction or spread of these species. If necessary, measures to minimize this likelihood must be identified.

NATIVE AMERICAN COORDINATION Coordination with the Native American groups and individuals will occur as appropriate throughout the environmental process. Contact with the Native American Heritage Commission, local Native American groups and individuals will take a minimum of eight hours to accomplish, however, a thirty-day comment period is required.

SECTION 4(f) IMPACTS The project is not expected to have any impacts related to Section 4(f).

VISUAL EFFECTS The Caltrans Landscape Architecture Branch has performed a preliminary site visit and has identified measures to minimize negative visual impacts associated with the project construction. Additional measures may be identified during the environmental approval stage.

The primary visual impacts from this project are related to vegetation removal and ground disturbance for access roads, culvert access and staging areas, and erosion. Major gaps in the vegetation, or a series of gaps, would draw attention of passing motorists. Visible areas of erosion on adjacent slopes may also detract from visual quality. Efforts should be made to avoid removing trees. All trees removed shall be replaced at the rate of one seedling per one inch of Diameter Breast Height (DBH) ratio.

Implement permanent erosion/sediment control measures to minimize adverse storm water impacts to the Caltrans right of way and adjacent properties. At this stage in the project, it is unknown whether access roads will be maintained for future culvert access, or be restored to a natural condition. If the roads are restored, any areas of ground disturbance for culvert access and staging areas shall be vegetated. This may include ripping, restoring natural contours, mulch, compost, fertilizer, seed, and replacement plants. Application of Erosion Control Type D is approximately \$10,000 to \$15,000 per hectare (2.47 acres). As the project is refined during the 0 and 1 phase, estimates for vegetation rehabilitation will be provided.

Rock Slope Protection (RSP) over a geotextile fabric should be used to stop erosion at the culvert invert and outlet locations where scour has occurred. At the embankment slopes, which are eroding, erosion control seeding and blankets should be used. Replacement of the drainage features should be designed and located to maximize integration into the surrounding landform. Drainage facilities should be treated with stains to blend features into the adjacent soil or rock colors. Landscape Architecture should be requested to provide a Visual Impact Assessment for the Environmental Document.

WATER QUALITY AND EROSION The project is expected to result in impacts to water quality. Impacts would be the greatest during the construction phase. Construction of the project would disturb areas of soil that could create erosion and sedimentation. The site should be evaluated for potential water quality impacts associated with the project. To assure there are no water quality impacts during the construction of these projects, a water quality management plan must be developed by the contractor to assure that all impacts are minimized and avoided so there is no effect to the adjacent water bodies. The level of the water quality control plan will be determined as the design of the project is developed and the details of the design are completed.

This project may have little impact to water quality if avoidance and minimization practices are followed as mandated by the Department's statewide NPDES permit. Adherence to the following is recommended to prevent receiving water pollution as a result of construction activities and/or operation of this section of Highway 80:

- The project shall adhere to the conditions of the Caltrans Statewide NPDES Permit CAS # 000003, (Order # 99-06-DWQ), issued by the State Water Resources Control Board.
- Construction projects with a disturbed area of more than one acre of soil or by the request of the Regional Water Quality Control Board will require a Caltrans approved Storm Water Pollution Prevention Plan (SWPPP). The SWPPP will contain project specific erosion and sediment control measures. These measures must address the practices related to soil stabilization, sediment control, tracking control, and wind erosion control. In addition, the project plan must include waste management, material pollution controls, as well as non-storm water controls.
- The soil disturbing area may exceed one acre, therefore, it is anticipated that a SWPPP level of temporary pollution controls will be implemented; Standard Special Provision 07-345, shall be included in the PS&E to address these temporary construction water pollution control measures.
- In the case of a SWPPP, a report of Notification of Construction (NOC) shall be submitted to the Central Valley Regional Water Quality Control Board (CVRWQCB) for the SWPPP, at least 30 days prior to the start of construction.
- As directed by Caltrans' Storm Water Management Plan (SWMP) and the Project Planning and Design Guide (PPDG), an evaluation of the project is essential in determining if the incorporation of any permanent storm water runoff treatment measures shall be considered for this project.

WILD AND SCENIC RIVER N/A

DISPOSAL, MATERIAL STORAGE AND STAGING AREAS

Construction of the project may generate excess materials. Disposal, material storage and staging sites should be identified prior to initiating environmental studies and will require complete environmental evaluation as part of the project.

MITIGATION

Mitigation measures are identified during the environmental approval stage and may require review and approval by resource agencies. Mitigation for temporary and permanent impacts to the following resources may be required:

- Archaeological
- Biological Resources

PERMITS

The following permits may be required:

- U.S. Army Corp of Engineers - Section 404 permit
- Regional Water Quality Control Board – 401 Water Quality Certificate
- State Water Resources Control Board – National Pollutant Discharge Elimination System Permit

Right to Enter Permits will be required for biological and archaeological surveys.

Additional permits for material and disposal sites may be required.

RIGHT-OF-WAY RELOCATION OR STAGING AREA

There will be no need for new right of way acquisition. Staging or the need for disposal sites has not been indicated for this project. Should disposal or staging areas be required, these areas must be identified prior to initiating environmental studies.

LIST OF PREPARERS

Hazardous Waste Review by Mark Melani	Date 7/7/05
Biological Review by Encanta Engleby	Date 8/9/05
Cultural Review by Erin Dwyer	Date 7/26/05
Air/Noise/Energy Review by Sharon Tang	Date 7/29/05
Landscape Visual Review by Christina Ottaway	Date 7/29/05
Water Quality Assessment by John Holder	Date 8/3/05
Floodplain Review by Judy McCullough	Date 8/2/05

Attachment A
Mitigation and Compliance Cost Estimate

Dist.- Co. - Rte. : 03-PLACER -80 (PM 33.0-45.0) EA: 03-1E050K

Project Description: The purpose of this project is to rehabilitate the existing drainage systems by a method of replacement or lining. This work is designed to preserve and extend the culvert drainage systems' service life. There are approximately 43 culverts planned to be rehabilitated within this project area.

Person completing form / Dist. Office: Denise Gibson, Marysville

Project Manager: Mike Bartlett **Phone number:** (530) 740-4805 **Date:** August 23, 2005

	Mitigation			Compliance
	Project Feature ¹	Enviro. Obligation ²	Statutory Require. ³	Permit & Agreement ⁴
Fish & Game 1601 Agreement				
Coastal Development Permit				
State Lands Agreement				
NPDES Permit				
ACOE 404 Permit- Nationwide				
ACOE 404 Permit- Individual				
ACOE Section 10 Permit				
ACOE Section 9 Permit				
RWQCB Section 401 Permit				\$1
Noise attenuation				
Hazardous Waste (PSD)			\$15	
Special Landscaping		\$226 ⁹		
Erosion control		\$30 ⁸		
Archaeological (Phase II)			\$375 ³	
Archaeological (Phase III)			\$100 ⁶	
Biological				
Historical				
Scenic resources				
Wetland/riparian			\$120 ⁷	
TOTAL (Enter zeros if no cost)		\$256	\$610	\$1

- Costs are to be reported in \$1,000's.
- 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 environmental 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.

⁵ If required, cost is based on the worse case scenario that Phase II would be needed for five sites.

⁶ If required, cost is based on the worse case scenario that Phase III would be needed for one site.

⁷ If required, cost is based on worse case scenario at \$60,000 per acre for wetland mitigation.

⁸ If required, cost for erosion control is estimated at \$15,000 per hectare of ground disturbance.

⁹ If required, cost for planting is estimated at \$100 per tree at 40 trees per culvert site

**ATTACHMENT B - Resources by WBS Code
PERT Calculation**

EA: 03-1E050K

Description: Colfax Drainage Rehabilitation

WBS Task Activity Code	Senior	Coord	Biology	Cultural	Haz Waste	Storm Water	Noise/Air	Sup Svcs	Total	Begin Date	End Date	Duration
Assigned Unit												
	183	183	183	168	349	349	174	183				
Project Management												
100.05.05 - Proj. Init. & Pllng.	-	-	-	-	-	-	-	-	-	-	-	-
100.05.10 - PID Exec. & Cntrl.	4	22	-	-	-	1	-	-	27	-	-	-
100.05.15 - PID Closeout	-	-	-	-	-	-	-	-	-	-	-	-
100.10.05 - PA&ED Init. & Pllng.	-	-	-	-	-	-	-	-	-	-	-	-
100.10.10 - PA&ED Exec. & Cntrl.	4	22	2	2	2	2	2	40	76	-	-	-
100.10.15 - PA&ED Closeout	-	-	-	-	-	-	-	-	-	-	-	-
100.10.20 - Project Shelving (PA&ED)	-	-	-	-	-	-	-	-	-	-	-	-
100.10.25 - Project Unshelving (PA&ED)	-	-	-	-	-	-	-	-	-	-	-	-
100.10.30 - Prep/Updt Admin Record PA&ED	-	-	-	-	-	-	-	-	-	-	-	-
100.15.05 - PS&E Init. & Pllng.	-	-	-	-	-	-	-	-	-	-	-	-
100.15.10 - PS&E Exec. & Cntrl.	4	32	-	-	1	-	-	20	57	-	-	-
100.15.15 - PS&E Closeout	-	-	-	-	-	-	-	-	-	-	-	-
100.15.20 - Project Shelving (PS&E)	-	-	-	-	-	-	-	-	-	-	-	-
100.15.25 - Project Unshelving (PS&E)	-	-	-	-	-	-	-	-	-	-	-	-
100.15.30 - Prep/Update Admin Record PS&E	-	-	-	-	-	-	-	-	-	-	-	-
100.20.05 - Const. Init. & Pllng.	-	-	-	-	-	-	-	-	-	-	-	-
100.20.10 - Const. Exec. & Cntrl.	4	32	-	-	-	-	-	20	56	-	-	-
100.20.15 - Const. Closeout	-	-	-	-	-	-	-	-	-	-	-	-
100.20.20 - Project Shelving (Construction)	-	-	-	-	-	-	-	-	-	-	-	-
100.20.25 - Project Unshelving (Construction)	-	-	-	-	-	-	-	-	-	-	-	-
100.20.30 - Prep/Update Admin Record Const	-	-	-	-	-	-	-	-	-	-	-	-
100.25.05 - RW Init. & Pllng.	-	-	-	-	-	-	-	-	-	-	-	-
100.25.10 - RW Exec. & Cntrl.	-	-	-	-	-	-	-	-	-	-	-	-
100.25.15 - RW Closeout	-	-	-	-	-	-	-	-	-	-	-	-
100.25.20 - Project Shelving (Right of Way)	-	-	-	-	-	-	-	-	-	-	-	-
100.25.25 - Project Unshelving (Right of Way)	-	-	-	-	-	-	-	-	-	-	-	-
100.25.30 - Prep/Update Admin Record RW	-	-	-	-	-	-	-	-	-	-	-	-
Total Project Management	17	107	2	2	2	3	2	80	215			

Perform Preliminary Engineering Studies and Prepare Draft Project Report

160.05.05 - Review Approved PID	-	-	-	-	-	1	-	-	1	-	-	-
160.05.10 - Review Geotechnical Information	-	-	-	-	-	-	-	-	-	-	-	-
160.05.20 - Review Traffic Data & Forecasts	-	-	-	-	-	-	-	-	-	-	-	-
160.05.30 - Review Project Scope	10	20	2	2	2	2	-	-	38	-	-	-
160.10.20 - Perform Value Analysis	-	-	-	-	-	-	-	-	-	-	-	-
160.10.25 - Perform Hydraulics/Hydro Study	-	-	-	-	-	-	-	-	-	-	-	-
160.10.30 - Dev Hwy Planting Das Concepts	-	-	-	-	-	-	-	-	-	-	-	-
160.10.20 - Prepare Draft Project Report	-	-	-	-	-	-	-	-	-	-	-	-
160.15.25 - Circ. Rev. & App Draft PR	5	5	2	2	2	2	-	-	18	-	-	-
160.30 - Dev ESR	8	20	-	-	-	-	-	-	28	-	-	-
Total Perf Pre Eng Studies	23	45	4	4	4	5	-	-	86	-	-	-

Perform Environmental Studies and Prepare Draft Environmental Document

165.05.05 - Rev Project Information	2	11	6	-	-	1	-	-	20	-	-	-
165.05.10 - Pub. & Agency Scoping	-	-	-	-	-	-	-	-	-	-	-	-

WBS Task Activity Code	Senior	Coord	Biology	Cultural	Haz Waste	Storm Water	Noise/Air	Sup Svcs	Total	Begin Date	End Date	Duration
165.05.15 - Select Alt for Fut Study	-	-	-	-	-	-	-	-	-	-	-	-
165.05.20 - Maps for Env Evaluation	-	8	-	-	-	-	-	-	8	-	-	-
165.10.05 - Surveys & Map for Study	-	-	62	-	-	1	-	-	63	-	-	-
165.10.10 - Obtain Rights of Entry	5	10	18	-	-	-	-	-	33	-	-	-
165.10.15 - CIA, Land Use & Growth	-	-	-	-	-	-	-	-	-	-	-	-
165.10.25 - Noise Study	-	-	-	-	-	-	8	-	8	-	-	-
165.10.30 - Air Quality Study	-	-	-	-	-	-	24	-	24	-	-	-
165.10.35 - Water Quality Studies	-	-	-	-	-	3	-	-	3	-	-	-
165.10.40 - Energy Studies	-	-	-	-	-	-	-	-	-	-	-	-
165.10.45 - Sum Geotech Report	-	-	-	-	-	-	-	-	-	-	-	-
165.10.50 - Site Investigation HW	-	-	-	-	182	-	-	-	182	-	-	-
165.10.65 - Paleontology Study	-	-	-	-	-	-	-	-	-	-	-	-
165.15.05 - Biological Assessment	-	-	126	-	-	-	-	-	126	-	-	-
165.15.10 - Wetlands Study	-	-	126	-	-	-	-	-	126	-	-	-
165.15.15 - Resource Agency Coord	-	-	62	-	-	-	-	-	62	-	-	-
165.15.20 - NES Report	-	-	62	-	-	-	-	-	62	-	-	-
165.20.05 - Archaeology Survey	-	-	-	-	-	-	-	-	-	-	-	-
165.20.05.05 - Perform Archy Survey	-	-	35	-	-	-	-	-	35	-	-	-
165.20.05.10 - Conduct NA Consultation	-	-	13	-	-	-	-	-	13	-	-	-
165.20.05.15 - Perform Records Search	-	-	24	-	-	-	-	-	24	-	-	-
165.20.05.20 - Conduct Field Survey	-	-	367	-	-	-	-	-	367	-	-	-
165.20.05.25 - Prepare ASR	-	-	67	-	-	-	-	-	67	-	-	-
165.20.10 - Phase I Archy Studies	-	-	-	-	-	-	-	-	-	-	-	-
165.20.10.05 - Conduct NA Consultation	-	-	-	-	-	-	-	-	-	-	-	-
165.20.10.10 - Prepare Phase I Proposal	-	-	-	-	-	-	-	-	-	-	-	-
165.20.10.15 - Conduct Field Investigation	-	-	-	-	-	-	-	-	-	-	-	-
165.20.10.20 - Analyze Materials	-	-	-	-	-	-	-	-	-	-	-	-
165.20.10.25 - Prepare Report	-	-	-	-	-	-	-	-	-	-	-	-
165.20.15 - Phase II Archy Studies	-	-	-	5	-	-	-	-	5	-	-	-
165.20.15.05 - Conduct NA Consultation	-	-	23	-	-	-	-	-	23	-	-	-
165.20.15.10 - Prepare Phase II Proposal	-	-	112	-	-	-	-	-	112	-	-	-
165.20.15.15 - Conduct Field Investigation	-	-	133	-	-	-	-	-	133	-	-	-
165.20.15.20 - Analyze Materials	-	-	53	-	-	-	-	-	53	-	-	-
165.20.15.25 - Prepare Report	-	-	80	-	-	-	-	-	80	-	-	-
165.20.20 - Hist & Architect Studies	-	-	-	-	-	-	-	-	-	-	-	-
165.20.20.05 - Prepare Prelim APE/SAM	-	-	-	-	-	-	-	-	-	-	-	-
165.20.20.10 - Prep Hist Res Eval Rpt - Archy	-	-	-	-	-	-	-	-	-	-	-	-
165.20.20.15 - Prep Hist Res Eval Rpt - Arct	-	-	-	-	-	-	-	-	-	-	-	-
165.20.20.20 - Prepare Bridge Evaluation	-	-	-	-	-	-	-	-	-	-	-	-
165.20.25 - Cultural Res Comp Docs	-	-	-	-	-	-	-	-	-	-	-	-
165.20.25.05 - Prepare Final APE Maps	-	-	33	-	-	-	-	-	33	-	-	-
165.20.25.10 - Perform PRC 5024.5 Consult	-	-	-	-	-	-	-	-	-	-	-	-
165.20.25.15 - Prep HPSR/Det Eilig/HRCR	-	-	45	-	-	-	-	-	45	-	-	-
165.20.25.20 - Prep Finding of Effect	-	-	47	-	-	-	-	-	47	-	-	-
165.20.25.25 - Prep Archy Data Recovery Plan	-	-	100	-	-	-	-	-	100	-	-	-
165.20.25.30 - Prepare MOA	-	-	20	-	-	-	-	-	20	-	-	-
165.25.05 - Prepare DED	-	-	-	-	-	-	-	-	-	-	-	-
165.25.10 - 4(f) Evaluation	-	-	-	-	-	-	-	-	-	-	-	-
165.25.15 - CE/CE Determination	-	-	-	-	-	-	-	-	-	-	-	-
165.25.20 - Peer & Other Reviews	-	-	18	-	-	-	-	-	31	-	-	-
165.25.25 - Obtain Approval to Circ	-	-	-	-	-	-	-	-	-	-	-	-
165.25.30 - Perform Env Coordination	-	25	-	-	-	-	-	-	25	-	-	-
Total Env Studies & Prep DED	7	54	479	1,169	182	5	32	-	1,928	-	-	-

WBS Task Activity Code	Senior	Coord	Biology	Cultural	Haz Waste	Storm Water	Noise/Air	Sup Svcs	Total	Begin Date	End Date	Duration
Circulate Draft Environmental Document and Select Preferred Project Alternative												
175.05.05 - Master Dist & Inv Lists	-	-	-	-	-	-	-	-	-	-	-	-
175.05.10 - Not Pub Hear & Avail	-	-	-	-	-	-	-	-	-	-	-	-
175.05.15 - Pub & Circulate DED	10	20	-	-	-	-	-	10	40	-	-	-
175.05.20 - Fed Const Det (Coastal)	-	-	-	-	-	-	-	-	-	-	-	-
175.10.05 - Need for Pub Hearing	-	-	-	-	-	-	-	-	-	-	-	-
175.10.10 - Pub Hearing Logistics	-	-	-	-	-	-	-	-	-	-	-	-
175.10.15 - Displays for Pub Hearing	-	-	-	-	-	-	-	-	-	-	-	-
175.10.20 - Not Pub Hear & Avail	-	-	-	-	-	-	-	-	-	-	-	-
175.10.25 - Review Map Displays	-	-	-	-	-	-	-	-	-	-	-	-
175.10.30 - Display Pub Hear Maps	-	-	-	-	-	-	-	-	-	-	-	-
175.10.35 - Hold Public Hearing	10	20	-	-	-	-	-	-	30	-	-	-
175.10.40 - Dist Rec of Pub Hearing	-	-	-	-	-	-	-	-	-	-	-	-
175.15 - Res to Pub Hear Comments	-	-	-	-	-	-	-	-	-	-	-	-
175.20 - Select Preferred Alternative	-	-	-	-	-	-	-	-	-	-	-	-
Total DED & Preferred Alt	20	40	-	-	-	-	-	10	70	-	-	-
Prepare and Approve Project Report and Final Environmental Document												
180.05.10 - Rev & App Project Rep	3	5	27	-	-	-	-	-	36	-	-	-
180.10.05 - Prep & Approve FED	10	40	-	-	-	-	-	-	50	-	-	-
180.10.05.10 - Circulate for Review	-	-	-	-	-	-	-	-	-	-	-	-
180.10.05.10 - Rev due to Review Comments	-	-	-	-	-	-	-	-	-	-	-	-
180.10.05.15 - Section 4(f) Evaluation	-	-	-	-	-	-	-	-	-	-	-	-
180.10.05.20 - Findings Report	-	-	-	-	-	-	-	-	-	-	-	-
180.10.05.25 - Statement of Overriding Consid	-	-	-	-	-	-	-	-	-	-	-	-
180.10.05.30 - Prepare CEQA Certification	-	-	-	-	-	-	-	-	-	-	-	-
180.10.05.35 - FHWA and Approval	-	-	-	-	-	-	-	-	-	-	-	-
180.10.05.40 - Section 106 Cons & MOA	-	-	-	7	-	-	-	-	7	-	-	-
180.10.05.45 - Conduct Section 7 Consult	-	-	-	-	-	-	-	-	-	-	-	-
180.10.05.50 - Finalize Section 4(f) Statement	-	-	-	-	-	-	-	-	-	-	-	-
180.10.05.55 - Prep Floodplain Only PAF	-	-	-	-	-	-	-	-	-	-	-	-
180.10.05.60 - Prep Wetlands Only PAF	-	-	18	-	-	-	-	-	18	-	-	-
180.10.05.65 - Coord Section 404 Permit	-	-	82	-	-	-	-	-	82	-	-	-
180.10.05.70 - Finalize Mitigation Measures	-	-	62	-	-	-	-	-	62	-	-	-
180.10.10.05 - Public Dist of FED	5	10	-	-	-	-	-	-	15	-	-	-
180.10.10.05 - Resp to Comments on FED	-	-	-	-	-	-	-	-	-	-	-	-
180.15.05 - Prep & App ROD (NEPA)	-	-	-	-	-	-	-	-	-	-	-	-
180.15.10 - Prep & File NOD (CEQA)	-	-	-	-	-	-	-	-	-	-	-	-
180.15.20 - Prep/Update Env Commitments	2	20	18	-	-	-	-	-	43	-	-	-
Total App PR & FED	19	75	166	7	-	-	-	1	291	-	-	-
Coordinate Utilities												
200.15 - Utility Conflict Resolution	-	-	-	-	-	-	-	-	-	-	-	-
Total Coordinate Utilities	-	-	-	-	-	-	-	-	-	-	-	-
Obtain Permits, Agreements and Route Adoptions												
205.05 - Determine Required Permits	-	-	-	-	-	-	-	-	-	-	-	-
205.10.05 - Army Corp Permit (404)	-	-	45	-	-	-	-	3	48	-	-	-
205.10.10 - USFS Permit	-	-	-	-	-	-	-	-	-	-	-	-
205.10.15 - US Coast Guard Permit	-	-	-	-	-	-	-	-	-	-	-	-
205.10.20 - DJFG Permit (1601/1603)	-	-	-	-	-	-	-	-	-	-	-	-
205.10.25 - Coastal Dev Permit	-	-	-	-	-	-	-	-	-	-	-	-

WBS Task Activity Code	Senior	Coord	Biology	Cultural	Haz Waste	Storm Water	Noise/Air	Sup Svcs	Total	Begin Date	End Date	Duration
205.10.30 - Loc Agcy Concurrence	-	-	-	-	-	-	-	-	-	-	-	-
205.10.40 - Waste Dischg (NPDES)	-	-	-	-	-	-	-	-	-	-	-	-
205.10.45 - USFWS Approval	-	-	-	-	-	-	-	-	-	-	-	-
205.10.50 - RWQCB Permit (401)	-	-	45	-	-	-	-	-	45	-	-	-
205.10.80 - Update Summary of Env Commit	-	-	18	-	-	-	-	-	18	-	-	-
205.10.95 - "Other" Permits	-	-	-	-	-	1	-	-	1	-	-	-
205.20.05 - Draft Fwy Agreement	-	-	-	-	-	-	-	-	-	-	-	-
205.20.10 - Review Draft Fwy Agree	-	-	-	-	-	-	-	-	-	-	-	-
205.20.15 - Prep Final Fwy Agree	-	-	-	-	-	-	-	-	-	-	-	-
205.20.20 - Execute Fwy Agreement	-	-	-	-	-	-	-	-	-	-	-	-
205.25 - Prep Agreement for Material Sites	-	-	-	-	-	-	-	-	-	-	-	-
205.35.05 - Prep & Exo Coop for Env	-	-	-	-	-	-	-	-	-	-	-	-
205.40.10 - New Conn & Rte Adopt	-	-	-	-	-	-	-	-	-	-	-	-
205.45 - MOU from TERO	-	-	-	-	-	-	-	-	-	-	-	-
Total Permits, Agree & Rte	-	-	108	-	-	1	-	3	112	-	-	-
Prepare Draft PS&E												
205.05.45 - Prepare Noise Barrier Plans	-	-	-	-	-	-	-	-	-	-	-	-
230.10.05 - Prepare Hwy Planning Plans	-	-	-	-	-	-	-	-	-	-	-	-
230.10.15 - Prepare Plant List	-	-	-	-	-	-	-	-	-	-	-	-
230.35.10 - Dev Hwy Planting Specs	-	-	-	-	-	-	-	-	-	-	-	-
230.35.35 - Dev Water Poll Ctrl Specs	-	-	-	-	-	-	-	-	-	-	-	-
230.35.40 - Dev Erosion Control Specs	-	-	-	-	-	-	-	-	-	-	-	-
230.30.60 - Rev & Updt Proj Info Draft PS&E	3	20	18	-	-	1	-	-	42	-	-	-
Total Prepare Draft PS&E	3	20	18	-	-	1	-	-	42	-	-	-
Mitigate Environmental Impacts and Clean-up Hazardous Waste												
235.05.05 - Hist Structures Mitig	-	-	-	-	-	-	-	-	-	-	-	-
235.05.10 - Archy & Cult Mitigation	-	-	-	167	-	-	-	-	167	-	-	-
235.05.15 - Biological Mitigation	-	-	62	-	-	-	-	-	62	-	-	-
235.05.20 - Perform Env Mit R/W	-	-	-	-	-	-	-	-	-	-	-	-
235.05.25 - Paleontology Mitigation	-	-	-	-	-	-	-	-	-	-	-	-
235.10.10 - Surveys to Locate HW	-	-	-	-	208	-	-	-	208	-	-	-
235.10.15 - Conduct Detailed Invest	-	-	-	-	-	-	-	-	-	-	-	-
235.15 - Dev HW Management Plan	-	-	-	-	-	-	-	-	-	-	-	-
235.20 - Prepare HW PS&E	-	-	-	-	-	-	-	-	-	-	-	-
235.25 - Perform HW Clean-up	-	-	-	-	-	-	-	-	-	-	-	-
235.30 - Certify Freedom of HW	-	-	-	-	-	-	-	-	-	-	-	-
235.35 - Long Term Mitigation Mon	-	-	-	-	-	-	-	-	-	-	-	-
235.40 - Update Summary of Env Commit	3	5	5	-	-	-	-	-	13	-	-	-
Total Mitigation & HW Clean-up	3	5	67	167	208	-	-	-	449	-	-	-
Circulate, Review and Prepare Final District PS&E Package												
255.05 - Circ & Rev Draft Dist PS&E	7	17	18	-	7	1	-	-	49	-	-	-
255.10.25 - Update Technical Reports	-	-	-	-	-	-	-	-	-	-	-	-
255.15 - Env Reevaluation	-	-	-	-	-	1	-	-	1	-	-	-
255.20.05 - Rev Plans for Stds Comp	-	-	18	-	-	-	-	-	18	-	-	-
255.40 - Prep Res Eng's File	-	-	18	-	-	-	-	-	18	-	-	-
Total PS&E	7	17	54	-	7	1	-	-	86	-	-	-
Prepare Contract Documents												
260.15.15 - Env Cert at RTL	3	16	-	-	-	-	-	-	19	-	-	-
Total Prepare Contract Documents	3	16	-	-	-	-	-	-	18	-	-	-

WBS Task Activity Code	Senior	Coord	Biology	Cultural	Haz Waste	Storm Water	Noise/Air	Sup Svcs	Total	Begin Date	End Date	Duration
Perform Construction Engineering and General Contract Administration												
270.20.50 - Technical Support	-	-	18	-	-	-	-	-	18	-	-	-
270.50 - Cert of Comp with Mit Req	-	-	-	-	-	1	-	-	1	-	-	-
270.55 - Perf Final Inspect & Rec Accept	-	-	-	-	-	-	-	-	-	-	-	-
270.70 - Update Summary of Env Commit	-	-	18	-	-	-	-	-	18	-	-	-
Total Const Engineering	-	-	36	-	-	1	-	-	37	-	-	-
Prepare and Administer Contract Change Orders												
285.05.05 - Det Need for CCO	-	-	-	-	-	-	-	-	-	-	-	-
285.10.95 - Prov Other Fine Support	-	-	18	-	-	1	-	-	19	-	-	-
Total CCOs	-	-	18	-	-	1	-	-	19	-	-	-
Resolve Contract Claims												
290.35 - Provide Technical Support	-	-	19	-	-	-	-	-	18	-	-	-
Total Contract Claims	-	-	19	-	-	-	-	-	18	-	-	-
Accept Contract, Prepare Final Construction Estimate & Prepare Final Report												
295.35 - Prep Cert of Env Compliance	5	10	4	-	-	-	-	-	19	-	-	-
Total Final Construction	5	10	4	-	-	-	-	-	19	-	-	-
Total Project Hours	106	389	993	1,349	403	19	34	96	3,389	-	-	-

Attachment E- TMP Data Sheet

Memorandum

*Flex your power!
Be energy efficient!*

To: Alex Wu, P.E.
Marysville Design M7

Date: February 22, 2011

File: 03-1E050K
Pla-80 PM 33.1/45.0
Culverts Rehab

From: NHAN VU
TMP Coordinator
Transportation Management Planning

Subject: Transportation Management Plan (TMP) Data Sheet

Background

- This culverts rehab project proposes to line approximately 43 culverts on Placer 80 at PM 33.1/45.0 Down-drains that are connected to the culverts will also be lined or removed and replaced. Other works may include permanent water quality BMP.
- This project is located on multilane freeway with 2 existing lanes in each direction of travel. Ramps and frontage roads are within and nearby project limits.

Recommendations

- Due to heavy traffic volume on Placer 80 at PM 33.1/45.0 lane closure will be limited to night time hours only.
- Ramp closure may be allowed during lane closure on route 80.
- Frontage Road closure may be allowed during day time hours.
- Closing an adjacent lane will be required for public safety when working on the gore areas, shoulders and conforming at the ramps.
- Portable changeable message signs (PCMS) will be required in direction of traffic during construction for each lane or shoulder closure.
- Lane closure charts will have to be developed prior to P&E.

Cost

For estimating purposes, use \$2,500 per traffic control day to estimate the costs that are required for the Traffic Management Plan (TMP) items. These items include Traffic Control System, Portable changeable Message Signs, Maintain Traffic, and TMP Public Information

COZEEP is estimated at \$1,000 per working day and \$2,000 per working night whenever CHP involvement is needed during construction. COZEEP estimate should include 2 officers per vehicle when performing night work.

If there is a change in the scope of the project or the order of work (schedule), please advice the TMP unit, as this may affect the TMP estimate.

P & E Requirement

To complete a TMP for this project, please provide the following to the Office of Traffic Management Planning at least three months prior to P&E: project description, title sheet, typical cross sections, layout sheets, construction cost estimates, number of working days, number of traffic control days, project schedule, and a contact person.

Needed Resources

TMPO office will need the following resources to complete our work:

Activity 160	100 hours
Activity 230	400 hours
Activity 255	80 hours
Activity 265	30 hours
Activity 270	80 hours
Activity 285	20 hours

Attachments

TMPO Checklist

D-3 TRANSPORTATION MANAGEMENT PLAN CHECKLIST

District / EA: 03-1E050K
 Date Prepared: February 22, 2011
 Prepared By: NHAN VU

Co.Rte.-PM. Placer 80 PM 33.1 / 45.0
 Location Placer County

Stage of Project (X box) PID PSR PR PS&E

Description: Culverts Rehab

REQUIRED	RECOMMENDED	NOT APPLICABLE	BEES Item No.	COMMENTS	UNIT COST	REQUIRED IN SPEC.
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1.0 Public Information Strategies

- 1.1 Brochures and Mailers
- 1.2 Media Releases (& minority media sources)
- 1.3 Paid Advertising
- 1.4 Public Information Center
- 1.5 Public Meetings/Speakers Bureau
- 1.6 Project Telephone Hotline
- 1.7 Internet, E-Mail
- 1.8 Local cable TV and News
- 1.9 Notification to Impacted groups
(i.e. bicycle users, pedestrians with disabilities, others)
- 1.10 Project Web Page
- 1.11 Caltrans Public Information Office
- 1.12 Consultant Public Information Office
- 1.13 Other items

<input checked="" type="checkbox"/>				Placer County limit		
		<input checked="" type="checkbox"/>				
		<input checked="" type="checkbox"/>				
		<input checked="" type="checkbox"/>	066063			
		<input checked="" type="checkbox"/>				
		<input checked="" type="checkbox"/>				
		<input checked="" type="checkbox"/>		City Transportation Department		
		<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/>			066063			
		<input checked="" type="checkbox"/>				
		<input checked="" type="checkbox"/>				

2.0 Traveler Information Strategies

- 2.1 Changeable Message Signs (permanent)
- 2.2 Changeable Message Signs (portable)
- 2.3 Special Construction Signs
- 2.4 Traveler Information Systems (CHIN/Internet)
- 2.5 Highway Advisory Radio "HAR" (fixed or mobile)
- 2.6 Radar Speed Sign
- 2.7 Traffic Management Team
- 2.8 Revised Transit Schedules/ Maps
- 2.9 Bicycle community information
- 2.10 Other item

		<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/>			128650			<input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/>	120690			
		<input checked="" type="checkbox"/>	861985			
		<input checked="" type="checkbox"/>	860520			
		<input checked="" type="checkbox"/>	066064			
		<input checked="" type="checkbox"/>				
		<input checked="" type="checkbox"/>				
		<input checked="" type="checkbox"/>				
		<input checked="" type="checkbox"/>				

3.0 Incident Management

- 3.1 COZEEP
- 3.2 Freeway Service Patrol (tow truck service patrol)
- 3.3 Traffic Surveillance Stations (loops or CCTV)
- 3.4 Transportation Management Center
- 3.5 Traffic Control Inspector (Caltrans)
- 3.6 Traffic Management Team
- 3.7 On-site Traffic Advisor (contractor)
- 3.8 Other Items

<input checked="" type="checkbox"/>			066062			
		<input checked="" type="checkbox"/>	066065			
		<input checked="" type="checkbox"/>	066876			
		<input checked="" type="checkbox"/>				
	<input checked="" type="checkbox"/>					
		<input checked="" type="checkbox"/>				
	<input checked="" type="checkbox"/>					
		<input checked="" type="checkbox"/>				

4.0 Construction Strategies

- 4.1 Delay damage clause
- 4.2 Night work
- 4.3 Weekend Work
- 4.4 Extended Weekend Closures
- 4.5 Planned Lane Closures
- 4.6 Planned Ramp/Connector Closures
- 4.7 Total Facility Closure
- 4.8 Project Phasing
- 4.9 Truck Traffic Restrictions
- 4.10 Reduced Lane Widths

	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
	<input checked="" type="checkbox"/>					
		<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/>				Per Lane Closure Charts		<input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/>				
		<input checked="" type="checkbox"/>				
		<input checked="" type="checkbox"/>				
		<input checked="" type="checkbox"/>				

4.0 Construction Strategies (Continued)

- 4.11 Temporary K-Rail
- 4.12 Temporary Traffic Screens
- 4.13 Reduced Speed Zones
- 4.14 Traffic Control Improvements
- 4.15 Contingency Plans
 - 4.15.1 Material Plant on standby
 - 4.15.2 Extra Critical Equipment on site
 - 4.15.3 Material Testing Plan
 - 4.15.4 Alternate Material on site
(In case of failure or major delays)
 - 4.15.5 Emergency Detour Plan
 - 4.15.6 Emergency Notification Plan
 - 4.15.7 Weather Conditions Plan
 - 4.15.8 Delay Timing and Documentation Plan
 - 4.15.9 Late Closure Reopening Notification
- 4.16 Signal timing modification
- 4.17 Coordination with adjacent construction
- 4.18 Double Fine Zone (signs)
- 4.19 Right of Way Delay
- 4.20 Other Items

REQUIRED	RECOMMENDED	NOT APPLICABLE	BEES Item No.	COMMENTS	UNIT COST	REQUIRED IN SPEC.
	X		129000			
		X	129150			
		X				
		X				
X						X
		X				
		X				
		X				
		X				
	X					
	X					
		X				
		X				
	X					
X						X
	X					
		X	066022			
		X				

5.0 Demand Management

- 5.1 HOV Lanes/Ramps
- 5.2 Ramp metering
- 5.3 Park-and-Ride Lots
- 5.4 Parking Management/Pricing
- 5.5 Rideshare Incentives
- 5.6 Rideshare Marketing
- 5.7 Transit, Train, or Light-Rail Incentives
- 5.8 Transit Service Modification
- 5.9 Variable Work Hours
- 5.10 Telecommute
- 5.11 Other Items

		X				
		X				
		X				
		X				
		X				
		X	066069			
		X	066066			
		X				
		X				
		X				
		X				

6.0 Alternate Route Strategies

- 6.1 Ramp Closures
- 6.2 Street Improvements
- 6.3 Reversible Lanes
- 6.4 Temporary Lanes or Shoulders Use
- 6.5 Freeway to freeway connector closures
- 6.6 Encroachment Permit from City/County

		X				
		X				
		X				
		X				
		X				
		X				

7.0 Other Strategies

- 7.1 Application of new technology
- 7.2 Other Items

		X				
		X				

Comments:

Memorandum

*Flex your power!
Be energy efficient!*

To: LAURIE LAMMERT, Chief
TRAFFIC MANAGEMENT PLANNING

Date: February 10, 2011

File: 03-Pla-80 PM 33/45
EA: 1E050K

From: ALEX WU
PROJECT ENGINEER
DESIGN-M7

Subject: Request for an Update Traffic Date Sheet

This is an update Traffic Date sheet request for project 03-1e050K, a culvert rehab project that proposes to line approximately 43 culverts. If down-drains are connected to the culvert, they will also be lined or removed and replaced. Other work may include permanent water quality BMP, if appropriate. The ultimate purpose of the project is to preserve and extend culvert service life.

The culvert locations are all on Route 80, from the Route 174/80 Separation near Colfax (PM 33.1) to about 0.16 mile east of Alta Road Undercrossing (PM 45.0).

Please provide an update Traffic Date sheet by Feb 22, 2011 so that your recommendations can be included into the PSSR. For your use, please find attached a title sheet, culvert location list, and aerials. The aerials will show the locations of the culverts. The following is information you may find useful:

Construction Strategy: To line a culvert, only one end needs to be accessed. Access to the culvert end is assumed to occur from shoulder of I-80, unless a public / private frontage road reveals a much easier approach. In either case, a pioneering road will need to be constructed to gain culvert access (some sites more than others). Constructing the pioneer road may require some benching-type work if along the fill-line of an embankment. Work will require vegetation / tree removal. It is anticipated that a lane will be required for traffic control purposes. The same is anticipated along public / private frontage roads.

R/W Issues: Encroachment / Temporary Construction Easements will be required at some locations. The culvert located at PM 40.02 appears easily accessed from adjacent

Request for TMP

EA: 03-1E050K

Page 2

Southern Pacific (SP) Rail Road right-of-way. At this location, it is may be appropriate to request a permit to enter from SP.

Working Days: Work is staged either from the shoulder of I-80 or along public / private frontage. An estimated breakdown of working traffic control days is as follows:

Estimated Working Days: 90 days

Estimated Working Days of Traffic Control on I-80: 40

Estimated Working Days of Traffic Control on Frontage Road: 35

The Estimated Total Project Cost: \$3.8M.

Should you have any question or require additional information, please contact me at 530-741-4167.

Thank you.

Alex Wu
Design-M7

Attachments:

Attachment F- Landscape Architecture Assessment Sheet



TO: Alex Wu FROM: Jane Donohoe Unit/Senior TE Name: Isam Tabshouri Project Manager: Mike Bartlett	CO: Placer DISTRICT: 03 DATE: 04/01/11 EA: E050K	RTE: 80	PM: 33.0-45
PROJECT SEPARATION: <input checked="" type="checkbox"/> Landscape as part of roadway work EA <input type="checkbox"/> Landscape under separate EA (Follow-up)	PROJECT: Reduce future peak-period traffic congestion TYPE: SHOPP PROJECT MILESTONE:PSSR		

PROJECT DESCRIPTION: This project proposes to rehabilitate existing culverts along Route 80, from 0.2-km west of the Route 174/80 Separation near Colfax (KP/PM 53.2/33.1) to 0.25-km east of Alta Road Undercrossing (KP/PM 72.4/45.0). Many of the drainage systems within the project segment of Route 80 are older and near their expected service life. The purpose of this project is to extend the service life of each system.

The rehabilitation method will be by lining the cross-culvert portion of the drainage system while down-drains / over-side-drains will be removed and replaced. Permanent water quality BMP's may be included, as appropriate.

The project segment of Route 80 is located in a mountainous heavily vegetated terrain. At many sites, construction pioneer roads may be required. The anticipation is to construct the access roads along the fill-lines leading to the inlet/outlet of each respective drainage system. If construction access roads are not feasible along the fill-line, then access from a frontage road or a private property will be considered. TCE's are likely required at some locations where the culvert-end is near or extends past the exiting r/w lines.

AREA FOR HIGHWAY PLANTING: AREA FOR EROSION CONTROL: PLANT COUNT FOR MITIGATION PLANTING: REPLACEMENT PLANT COUNT:	 1.98 HA (4.89 AC) N/A 4 mature trees removed per culvert		
LANDSCAPE FREEWAY STATUS: HIGHWAY PLANTING IS: SCENIC HIGHWAY STATUS: REVEGETATION REQUIRED?	<input type="checkbox"/> Yes <input type="checkbox"/> Warranted <input type="checkbox"/> Officially Designated <input type="checkbox"/> Permit Required	<input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Warranted <input type="checkbox"/> Eligible <input checked="" type="checkbox"/> Offset of Visual Impact	<input checked="" type="checkbox"/> Not Designated <input checked="" type="checkbox"/> Other (Forest Service, BLM, etc.)
BIOLOGIST CONTACT: DATE OF CONTACT: REVEG. SPECIALIST CONTACT:	Encanta Engleby August 17, 2005 N/A		

ADJACENCY TO BILLBOARDS: <input type="checkbox"/> Project area is adjacent to outdoor advertising.	<input checked="" type="checkbox"/> Project area is not adjacent to outdoor advertising.
--	--

WATER AND POWER AVAILABILITY: Yes

IS THERE (E) IRRIGATION THAT WILL BE IMPACTED BY THIS PROJECT: Yes No

DESIGN FOR MAINTENANCE SAFETY: Contact Maintenance personnel

CONTEXT SENSITIVITY: <input type="checkbox"/> It is determined that the project will involve consideration of highway aesthetics and will require further evaluations pertaining to specific roadside enhancements. <input checked="" type="checkbox"/> No foreseen issues with highway aesthetics	<input type="checkbox"/> Other _____
---	--------------------------------------

COOPERATIVE MAINTENANCE AGREEMENTS: Yes. City of Marysville.



**NORTH REGION
LANDSCAPE ARCHITECTURE ASSESSMENT SHEET**
03-LAND-0002 (Rev. 3/03)

Project may
involve additional
tasks indicated

- Visual Simulation
 Highway Planting
 Contour Grading

- Erosion Control
 Field Visit
 Cost Estimate

- SWPPP/NPDES
 Context Sensitive Solutions/Aesthetics
 Landscape Evaluation

COST INFORMATION:

- Highway Planting, Irrigation and/ or Mitigation
 2-year Plant Establishment
 Erosion control
 Slope Protection
 Aesthetic Treatment

\$ 180,000
\$ 90,000
\$ 90,000
\$
\$
TOTAL \$ 360,000

OTHER RELATED INFORMATION:

- Landscape Architecture Resource Estimate:
- Refer to LAAS comments on 08/18/2005.
 - The adjustment made in this revision is only on price escalation between 2007 to 2011. A 20% price increase/ per year for the last four years has been added.

ROADSIDE VEGETATION MANAGEMENT TREATMENT NEEDS:

- Extended Gore Areas
 Guardrails and Signs
 Medians
 Road Edge
 Side Slopes/Embankment Slopes

(See: <http://www.dot.ca.gov/hq/LandArch/roadside/index.htm> for potential treatment measures)

PREPARED BY: Jane Donohoe

DATE: 03/30/11

CONCURRED BY:

(Project Manager)

DATE: 3/30/11

APPROVED BY:

DATE: 3-30-11

(Landscape Architecture or Engineering Services Branch Chief)



**NORTH REGION
LANDSCAPE ARCHITECTURE ASSESSMENT SHEET**
03-LAND-0002 (Rev. 3/03)

TO: Jesse Garcia FROM: Chris Ottaway Unit/Senior TE Name: 343/Kenneth Murray Project Manager: Mike Bartlett	CO: Placer DISTRICT: 03 DATE: 8/18/05 EA: 03-1E050K	RTE: 80	KP: 53.1-72.4	PM: 33.0-45
PROJECT SEPARATION: <input checked="" type="checkbox"/> Landscape as part of roadway work EA <input type="checkbox"/> Landscape under separate EA (Follow-up)	PROJECT: Culvert Rehabilitation TYPE: SHOPP PROJECT MILESTONE:			

PROJECT DESCRIPTION: This project is a proposal to rehabilitate existing culverts along Route 80, from 0.2 km west of the Route 174/80 separation near Colfax (KP 53.2/PM 33.1) to 0.25 km east of Alta Road Undercrossing (KP 72.4/PM 45.0). Many of the drainage systems within the project segment of Route 80 are older and near the end of their expected service life. The purpose of this project is to extend the service life of each system.

The rehabilitation method will be to line the cross-culvert portion of the drainage system while down-drains and over-side-drains will be removed and replaced. Permanent water quality BMPs may be included as appropriate.

The project segment of Route 80 is located in a mountainous and heavily vegetated terrain. At many sites, construction pioneer roads may be required. It is anticipated that the access roads will be constructed along the fill-lines leading to the inlet/outlet of each respective drainage system. If construction access roads are not feasible along the fill-line, the access from a frontage road or a private property will be considered. TCE's are liked to be required at some locations where the culvert end is near or extends past the existing right-of-way lines.

AREA (M2) FOR HIGHWAY PLANTING: AREA (M2) FOR EROSION CONTROL: PLANT COUNT FOR MITIGATION PLANTING:	<hr/> 1.98 ha <hr/> estimated 4 mature trees removed per culvert <hr/>
LANDSCAPE FREEWAY STATUS: HIGHWAY PLANTING IS: SCENIC HIGHWAY STATUS: REVEGETATION REQUIRED?	<input type="checkbox"/> Yes <input type="checkbox"/> Warranted <input type="checkbox"/> Officially Designated <input type="checkbox"/> Permit Required
	<input type="checkbox"/> No <input checked="" type="checkbox"/> Not Warranted <input type="checkbox"/> Eligible <input checked="" type="checkbox"/> Offset of Visual Impact
	<input checked="" type="checkbox"/> Not Designated <input checked="" type="checkbox"/> Other (Forest Service, BLM, etc.)
BIOLOGIST CONTACT: DATE OF CONTACT:	Encanta Engleby August 17, 2005

ADJACENCY TO BILLBOARDS:
 Project area is adjacent to outdoor advertising. Project area is not adjacent to outdoor advertising.

WATER AND POWER AVAILABILITY: N/A

DESIGN FOR MAINTENANCE SAFETY: N/A

CONTEXT SENSITIVITY:
 It is determined that the project will involve consideration of highway aesthetics and will require further evaluations pertaining to specific roadside enhancements.
 No foreseen issues with highway aesthetics Other _____

COOPERATIVE MAINTENANCE AGREEMENTS:



**NORTH REGION
LANDSCAPE ARCHITECTURE ASSESSMENT SHEET**
03-LAND-0002 (Rev. 3/03)

Project may
Involve additional
tasks indicated

- Visual Simulation
 Highway Planting
 Contour Grading

- Erosion Control
 Field Visit
 Cost Estimate

- SWPPP/NPDES
 Context Sensitive Solutions/Aesthetics
 Landscape Evaluation

COST INFORMATION:

- Highway Planting, Irrigation, and/or Mitigation
 2-year Plant Establishment
 Erosion Control
 Slope Protection
 Aesthetic Treatment

100,000
\$ 175,000
\$ 50,000
\$ 30,000 (15,000 per hectare)
\$ 50,000
\$ /m²
TOTAL \$255,000

OTHER RELATED INFORMATION:

- Landscape Architecture Resource Estimate:

200,000
Per discussion w/PE

PREPARED BY: *[Signature]*

DATE: *Aug. 18, 2005*

CONCURRED BY: *[Signature]*

(Project Manager)

DATE: *8/22/05*

APPROVED BY: *[Signature]*

DATE: *August 18, 2005*

(Landscape Architecture or Engineering Services Branch Chief)

COMMENTS:

This project is not expected to cause a large amount of ground disturbing activity. Each access road shall be located where it will cause the least disturbance of existing vegetation. However, since each culvert will need an access road, the project will require many small revegetation projects. This will increase the cost per site. Costs at this time are estimated based on the maximum possible disturbed area for a pioneer road (3.3m x 100m) for a total of 1.45 hectares per culvert, plus 120 m² for working area at one end of each culvert, for a total of .53 hectares.

- Trees to be impacted shall be limited to only those necessary (i.e. that cannot be avoided) for culvert access.
- All disturbed areas shall utilize temporary erosion control measures during construction.
- All areas disturbed during construction shall receive permanent erosion control seeding measures. All finished slopes and contour graded areas shall be hydroseeded with a permanent seed mix composed of native plant species indigenous to the area.
- In addition to erosion control seeding, selected areas will be revegetated with containerized live plants. Replacement shall be 10 seedlings for each tree above 6" DBH removed, with a mix of other understory plants in each location.
- Where appropriate, disturbed soil areas shall incorporate compost to a depth of 8-16 inches as an erosion control measure. Incorporation of compost aids in the rehabilitation of soils as a growing medium.
- Where pioneer roads are created, slopes shall be returned to original contour at completion of the project.
- Boulders and logs removed during clearing and grubbing and earthwork operations shall be stockpiled and used as landscape features in order to integrate pioneer roads and culvert access points into surrounding natural environment.
- All small trees, tree limbs, shrubs and other woody debris generated during clearing and grubbing operations shall be chipped and stockpiled for use as erosion control.



**NORTH REGION
LANDSCAPE ARCHITECTURE ASSESSMENT SHEET**
03-LAND-0002 (Rev. 3/03)

- Topsoils shall be removed, stockpiled, and replaced in original location where possible. Topsoil shall be incorporated back into finished grade as a supplemental erosion control measure.
 - At culvert inlet and outlet locations where scour has occurred, Rock Slope Protection (RSP) over geotextile fabric should be used to stop erosion. At embankment slopes that are eroding, erosion control blankets and seeding should be used.
 - Replacement drainage features such as downdrains should be designed and located to integrate into the surrounding landscape and out of motorists' views.
 - Drainage facilities should be treated with environmentally friendly stains to blend features into adjacent soil or rock colors. The project should include "Pipe Colorization" standard special provision.
 - Additional measures may be identified during the environmental approval stage.
 - This estimate is based upon preliminary plan information, and will need to be revised as plans are revised during the PA&ED and PS&E phases.
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