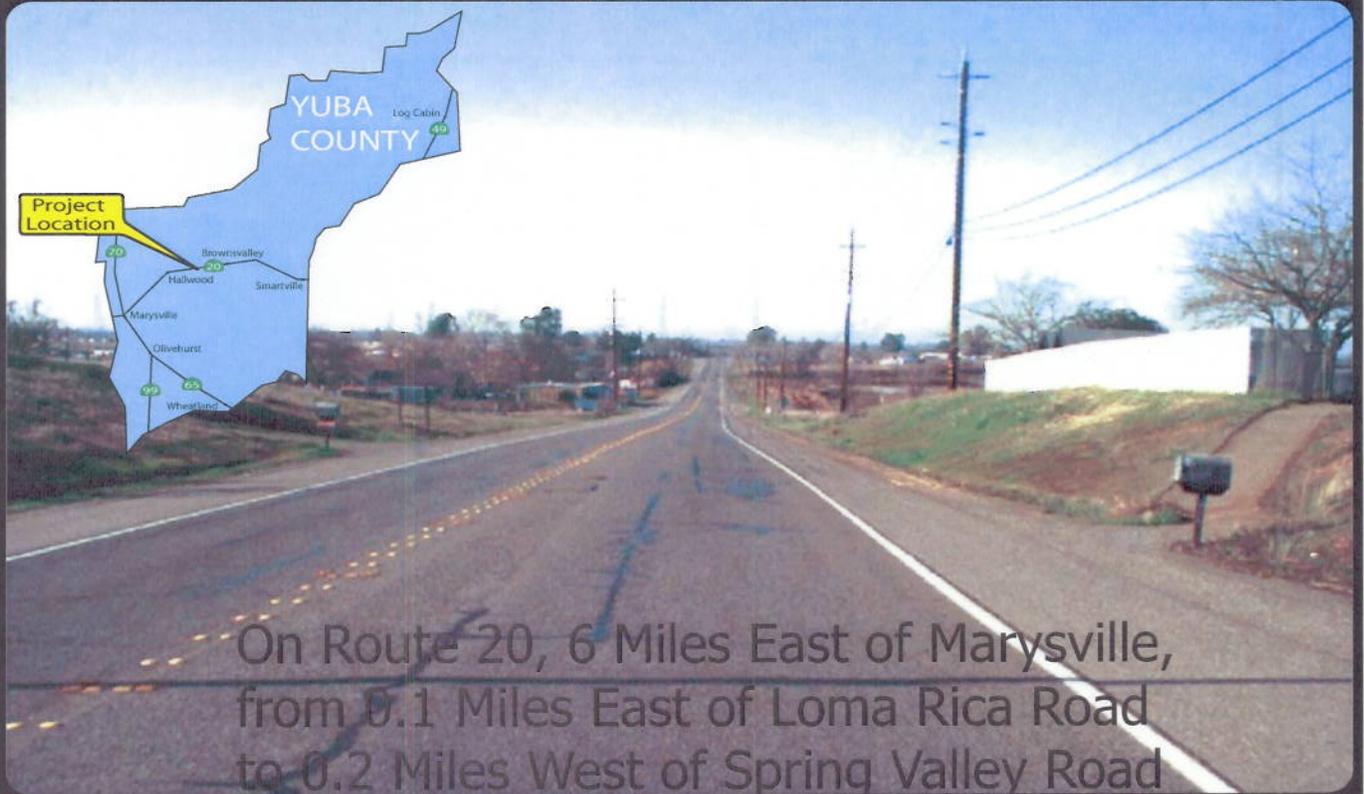




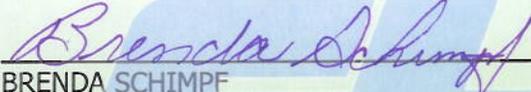
03-YUB-20 PM R8.0/10.2
03-2F320K
Project Id No. 0300020594
20.XX.201.120
March 2011

PROJECT SCOPE SUMMARY REPORT (Rehabilitate Pavement and Widen Shoulders)



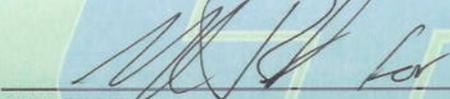
On Route 20, 6 Miles East of Marysville,
from 0.1 Miles East of Loma Rica Road
to 0.2 Miles West of Spring Valley Road

I have reviewed the right of way information contained in this Project Report and the Right of Way Data Sheet attached here to, and find the data to be complete, current and accurate:


BREND A SCHIMPF
District Division Chief - NR Right of Way

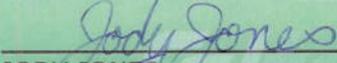
3/30/11
Date

APPROVAL
RECOMMENDED:


ALI KIANI
Project Manager

3-29-11
Date

APPROVED BY:


JODY JONES
District Director, District 3

3/30/11
Date

REPORT SIGNATURE SHEET



This 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.

Molly Richard

Molly Richard
Registered Civil Engineer

March 29, 2011

Date



PROJECT SCOPE SUMMARY REPORT FOR ROADWAY REHABILITATION

1. Introduction and Background

This Resurfacing, Restoration, and Rehabilitation (3R) project proposes to rehabilitate State Route (SR) 20 in Yuba County six miles east of Marysville from 0.1 miles east of Loma Rica Road to 0.2 miles west of Spring Valley Road. This project will widen the shoulders to 8-feet, adjust vertical alignment to standard, and straighten the horizontal alignment near post mile 8.2 to eliminate a set of short reversing curves.

Capital Costs*: \$ 6,690,000

Structures: \$ 0

Roadway: \$ 6,530,000

Right of Way: \$ 160,000

Funding Source: 2010 SHOPP

Type of Facility: Conventional Highway

Project Program: 20.XX.201.120
Roadway Rehabilitation

**Anticipated Environmental
Determination/Document:** Initial Study with Negative Declaration (CEQA)
Categorical Exclusion (NEPA)

Construction Year: 2014/2015

2. Purpose and Need

The existing vertical alignment and shoulder widths do not meet current standards. The existing pavement is exhibiting signs of distress and will further deteriorate without action.

The purpose of this project is to upgrade the roadway geometrics to current standards for a design speed of 55 mph, which will include lengthening a vertical curve and widening the shoulders. This project will also rehabilitate the existing pavement to extend the service life of the pavement.

3. Alternatives

Alternative 1 – The project scope includes:

- Dig out and repair locations of severe failure
- Seal cracks wider than 0.25"
- Overlay 0.2' Rubberized Hot Mix Asphalt (Type G)
- Overlay 0.1' Rubberized Hot Mix Asphalt (Type O)

*Escalated to 13/14 year; see Programming Sheet, *Attachment H*, for more information.

- Widen shoulders to 8'
- Upgrade vertical curve to standard near post mile 9.7
- Minor realignment to straighten short set of reversing curves near post mile 8.2
- Upgrade dike to Type E safety shape
- Shoulder backing
- Grade slopes to 4:1 or flatter, where possible
- Replace culverts and place rock slope protection, as needed
- Extend reinforced box culvert
- Relocate utilities that encroach in Clear Recovery Zone

This alternative is estimated to take one construction season to complete. Construction costs for this alternative are estimated at \$6,690,000.

Alternative 2 – No build. This alternative does not satisfy the need and purpose of the project.

4. Existing Facility

State Route 20 begins at SR 1 near Fort Bragg and ends at Interstate 80 near Emigrant Gap. Within District 3, the route runs 122 miles west to east through Colusa, Sutter, Yuba, and Nevada counties. SR 20 is mainly a two-lane highway that serves regional, interregional, commute, commercial, agricultural, and recreational traffic. SR 20 serves as a major east-west connector to I-5 and SR 99 and interconnects with other major routes, including SR 70 and I-80.

SR 20 is part of the Interregional Transportation Strategic Plan and is classified as a High Emphasis Focus Route. A High Emphasis Focus Route is one of Caltrans' highest priority route designations for completion to at least minimum facility standards within a 20-year planning period, assuring that a statewide trunk system is in place and complete for higher volume interregional trip movements.

Within the project limits, SR 20 currently operates at Level of Service (LOS) E. By the year 2027, the operation of the facility is expected to decline to LOS F. Shoulder widening is an incremental improvement toward maintaining current LOS, but other operational improvements may be needed in the future to provide the desired LOS.

Roadway Geometric Information

State Route 20 within the project limits is a two-lane conventional highway with an at-grade intersection at Kibbe Road and multiple driveway connections. See Table 1 for more information.

Table 1 - Roadway Geometric Information

	Minimum Curve Radius	Through Traffic Lanes			Paved Shoulder Width		Median Width	Median Barrier
		No. of Lanes	Lane Width	Type (AC, PCC, AC over PCC)	Left	Right		Yes or No
Existing	1500'	2	12 ft	AC	1'-8'	1'-8'	N/A	N/A
Proposed	1500'	2	12 ft	AC	8'	8'	N/A	N/A
Standard	1000'	2	12 ft		8'	8'	N/A	N/A

Structures Information

There are no structures within the project limits.

Pedestrian and Bicyclist Information

This portion of SR 20 is designated as bicycle accessible. Widening the shoulders to standard width will create a safer environment for bicyclists along this route. Pedestrian and bicyclist access must be maintained during construction.

Traffic Data

The traffic data for this portion of SR 20 is listed in Table 2 below. The highway has a directional split of 66% and 4% truck traffic.

Table 2 – Traffic Data

Year		Annual ADT	Peak Hour	Traffic Index
Base Year	2009	10,700	1,050	
Construction Year	2014	12,000	1,180	9.0
20-Year	2034	17,400	1,710	11.0

The latest collision rate for both eastbound and westbound directions of SR 20 for the five-year period from January 1, 2005 to December 31, 2009 is listed in Table 3.

Table 3 – Collision History

County	Route	PM	DIR	TOT	FAT	INJ	F+I	Actual			Average		
								FAT	F+I	TOTAL	FAT	F+I	TOTAL
Yuba	20	R8.0-10.2	Both	18	1	6	7	0.027	0.19	0.49	0.024	0.40	0.99

During the three-year period there were 18 collisions within the project limits resulting in six injuries and one fatality.

The primary collision factor for 39 percent of the 18 collisions was other violations, while 33% of the collisions were due to improper turns. The remaining collisions were due to influence of alcohol, speeding, or other than driver.

The District Traffic Safety Branch performed a safety screening for the project and had the following recommendations, which have been included in the project scope:

- Upgrade Type A dike on embankments to Type E safety shape dike and use Type F dike under guardrail if needed.
- Upgrade guardrail to current standards. Bury approach end sections into embankments where feasible.
- Remove trees and other fixed objects within the clear recovery zone. Grade side slopes to 4:1 or flatter and replace headwalls within the clear recovery zone with flared end sections.
- Install or replace centerline rumble strips and use Safety Edge paving to help motorists maintain

control and reduce over-steering.

5. **Traffic Management Plan**

A Traffic Management Plan (TMP) Datasheet was created for this project to outline the traffic impacts and mitigation measures. Some of the information is summarized below; see *Attachment C* for more information.

Lane closures with one-way reversible traffic control during the daytime may be allowed except during peak hours. When construction operations are not active, two lanes must be open to through traffic. Access to driveways and cross streets must be maintained during construction. Portable changeable message signs must be used for any lane and/or shoulder closure. Flaggers must be used near intersections and should be used where sight distance is limited. COZEEP is recommended but full time presence is not anticipated.

6. **Environmental**

Environmental Status

In order to identify environmental issues, constraints, costs and resource needs, the Office of Environmental Support prepared a mini-Preliminary Environmental Analysis Report (PEAR) for the project. Some of the information contained within this report is summarized below; see *Attachment D* for more information.

The anticipated Environmental Approval for this project is an Initial Study with Negative Declaration pursuant to the California Environmental Quality Act (CEQA) and Categorical Exclusion pursuant to the National Environmental Policy Act (NEPA). It will take approximately 18 months to complete the environmental process.

Environmental Issues

Biology

Multiple wildlife and vegetation species have been observed in the project area, some of which are protected by State and Federal agencies. Field surveys and studies will be required to confirm the presence of and potential impacts to protected species. Consultation with the US Fish and Wildlife Service (USFWS) and Department of Fish and Game (CDFG) will be required to determine if this project will impact any protected plant or wildlife species and what mitigation may be necessary. Consultation with the US Army Corps of Engineers (USACE) will also be required to determine the extent of impacts to jurisdictional waters and waters of the U.S. and what mitigation may be necessary.

The USACE, CDFG, and Regional Water Quality Control Board are highly likely to require permits for this project. If permits such as a 404, 1602, and/or 401 are required from these agencies, mitigation will also be required.

Archaeology

Previous project reports and an internal Caltrans database were consulted to determine possible archaeological impacts. Seven cultural sites were identified within the project limits, four of which had previously been determined not eligible for listing on the National Register of Historic Places. Consultation with the State Historic Preservation Officer will be required. A Phase I identification study will be required. If impacts to identified cultural resources cannot be avoided, a Phase II Evaluative

Study must be completed and mitigation may be required.

Hazardous Waste

An Initial Site Assessment was prepared for this project. The potential for hazardous waste exists within the environmental study limits. The following contaminants have been identified: Aerially Deposited Lead (ADL), lead and chromium in yellow traffic stripes, and treated wood waste from signs and/or metal beam guardrail. A Site Investigation to determine the amount of ADL within the project limits will be required. For additional information see *Attachment E*.

Water Quality and Storm Water Runoff

A water quality assessment was completed for this project. It is important that appropriate Construction Site BMPs are deployed during construction activities to avoid and/or minimize impacts. It is not anticipated that any water quality impacts will result since BMP measures will be in place during soil disturbance. If site dewatering will occur, a dewatering plan is required.

Air Quality

This project is anticipated to be exempt from air quality conformance analysis requirements. A technical memo will be prepared during PA&ED.

Noise

This project is not anticipated to require a project level noise analysis. A technical memo will be prepared during PA&ED.

Visual Resources

Due to time constraints, input from Landscape staff for this analysis was not completed.

7. Project Drainage

This project is located within a zone designated by FEMA as X, Other Flood Areas, which includes areas of 0.2% annual chance flood, areas of 1% annual chance flood with average depths less than 1 foot and areas protected by levees from the 1% annual chance flood. Although there are no FEMA identified flood hazard zones within the project limits, there is some random localized flooding that is generally the result of inadequate or poorly maintained drainage and/or irrigation systems. This project should perform improvements in a manner that improves drainage and reduces the occurrence of localized flooding.

Due to time constraints, a preliminary drainage report was not prepared for this project. It is assumed that all culverts within the project limits will need to be replaced and that a reinforced box culvert near post mile 9.7 can be extended both upstream and downstream to accommodate the widened highway.

8. Right of Way

A Right of Way Data Sheet was prepared for this project to identify potential impacts (see *Attachment F*). This project will require right of way acquisition as well as temporary construction easements.

Multiple utility poles exist within the right of way. Any poles within the clear recovery zone will be relocated prior to construction.

9. Other Agencies Involved

Coordination with Yuba County will be needed while developing this project. A Yuba County project to realign Kibbe Road is proposed which would realign Kibbe Road on the north side of SR 20 and would overlay the highway and provide turn pockets. The project is currently in litigation over the Environmental Impact Report and consequently, the schedule is not yet determined. If the EIR is approved, it could begin construction as early as 2012.

Consultation with USACE, USFWS, CDFG, and RWQCB will be required on this project. See section 6 for more information.

10. Other Considerations

Materials and/or Disposal Site Needs and Availability

Surplus material or grindings generated by the project will become the property of the contractor. AC grindings shall be handled and disposed of in accordance with local, state and federal laws and regulations.

Consistency with Other Planning

The ultimate facility for SR 20 within the project limits is a four-lane expressway.

Salvaging and Recycling of Hardware and Other Non-Renewable Resources

The contractor should salvage and recycle hardware when that option is available.

Recycling of AC

The contractor may at his or her discretion recycle the AC grindings.

11. Proposed Funding/Project Support

The funding source for this project is the 2010 SHOPP from the 20.XX.201.120 Roadway Rehabilitation program. See *Attachment H* for project schedule and support costs.

12. List of Project Contacts

Title	Name
Project Manager	Ali Kiani
Design Engineer	Isam Tabshouri
Project Engineer	Molly Richard
District Pavement Maintenance Engineer	Rex Hervey
Right of Way Agent	Poppea Darling
Environmental	Tammy Massengale
Hazardous Waste	Rajive Chadha
Traffic Management Planning	Nhan Vu

13. List of Attachments

- A. Location Map
- B. Typical Cross Sections and Layouts
- C. Traffic Management Plan (TMP) Data Sheet
- D. Mini Preliminary Environmental Analysis Report (mini-PEAR)
- E. Initial Site Assessment (ISA)
- F. Right of Way Data Sheet
- G. Cost Estimate Breakdown
- H. Programming Sheet

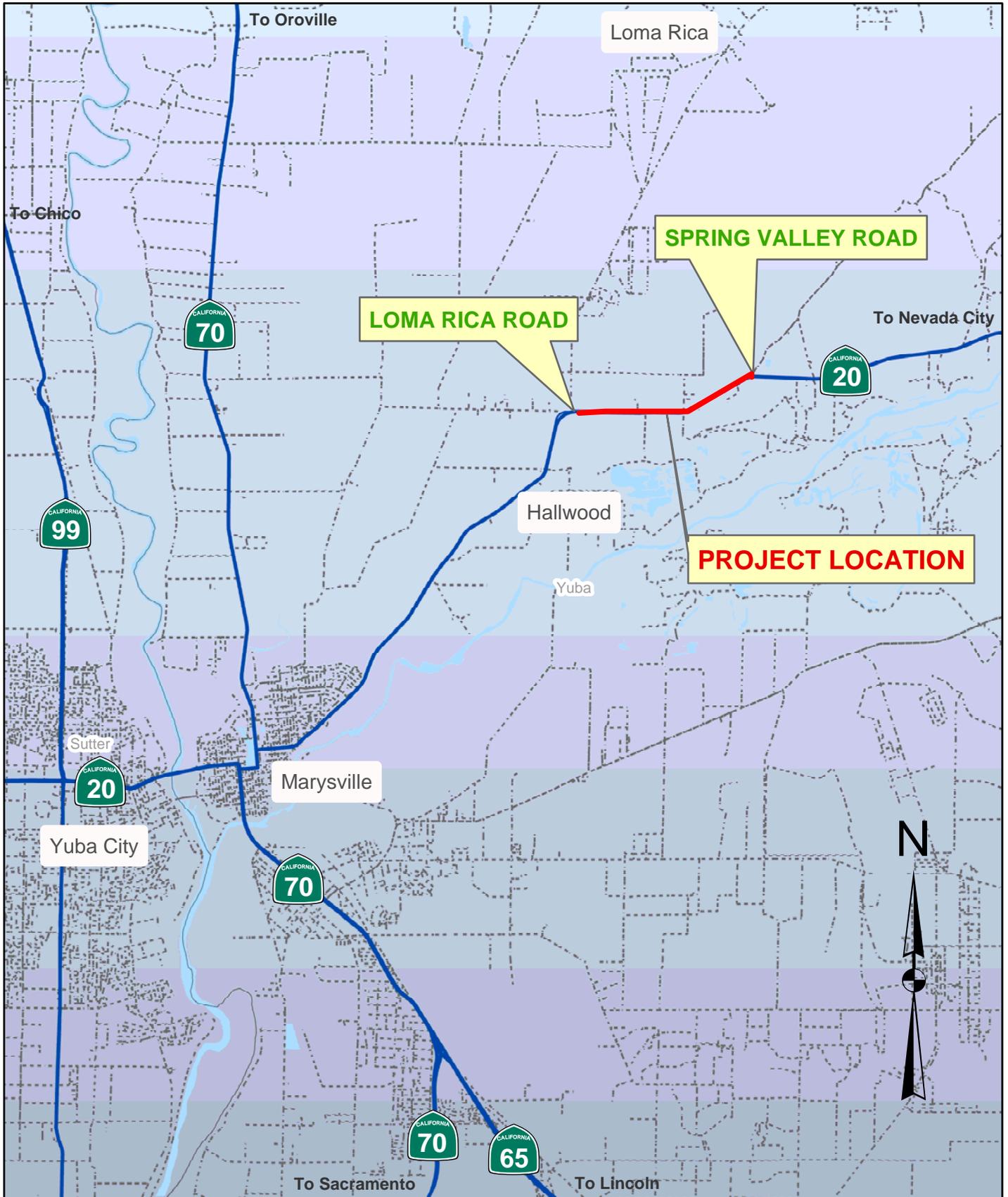
ATTACHMENT A
LOCATION MAP

LOCATION MAP

Yuba 20 - Rehabilitate Pavement and Widen Shoulders

YUB-20-PM R8.0/10.2

EA 2F320K



ATTACHMENT B
TYPICAL CROSS SECTIONS AND LAYOUTS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YUB	20	R8.0/10.2		

REGISTERED CIVIL ENGINEER DATE _____

INCOMPLETE PLANS

FOR DESIGN STUDY ONLY

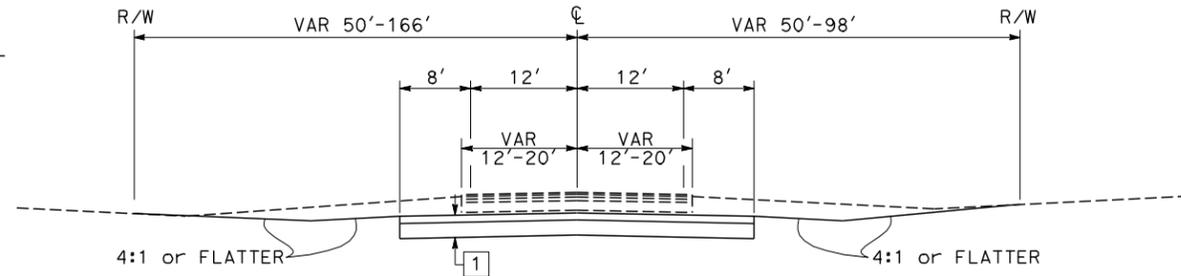
STATE OF CALIFORNIA CIVIL ENGINEER

PLANS APPROVAL DATE _____

THE STATE SHALL HOLD ALL PROFESSIONAL ENGINEERS AND AGENTS SHALTY AND BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

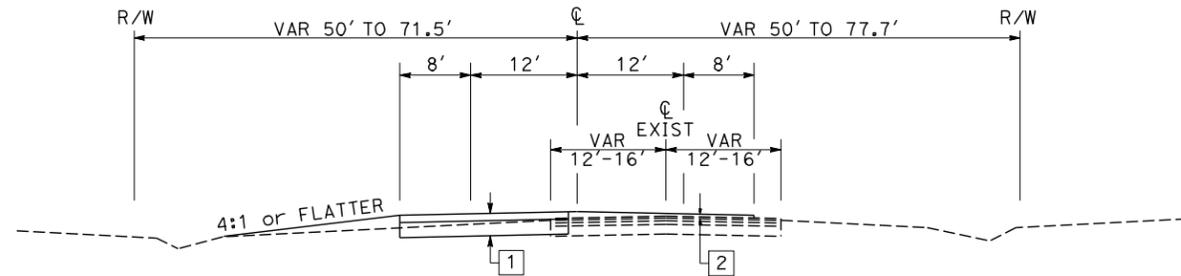
- FOR ACCURATE RIGHT OF WAY, SEE RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- UTILITY LOCATIONS ARE BASED ON FIELD REVIEWS AND AERIAL PHOTOGRAPHY AND LOCATIONS ARE APPROXIMATE.
- ALIGNMENT IS BASED ON RIGHT OF WAY MAPS AND AERIAL PHOTOGRAPHY.



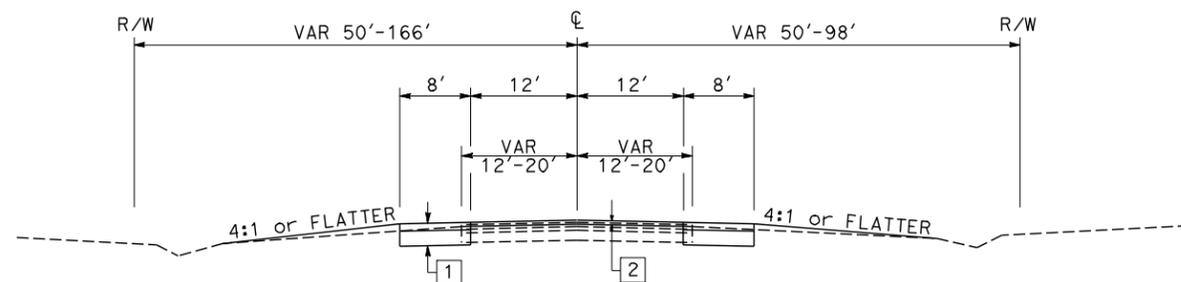
STATE ROUTE 20
PM 9.6 TO 9.8
VERTICAL CURVE CORRECTION
(Max Cut Approx 5')

STRUCTURAL SECTION INFORMATION

- 1 0.10' RHMA-O
0.20' RHMA-G
0.30' HMA-A
1.80' AB (Class 2)
- 2 0.10' RHMA-O
0.20' RHMA-G



STATE ROUTE 20
PM 8.2 TO 8.8



STATE ROUTE 20
PM 8.0 TO 8.2
PM 8.8 TO 9.6
PM 9.8 TO 10.2

TYPICAL CROSS SECTION
NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ADVANCE PLANNING
FUNCTIONAL SUPERVISOR
ISAM TABSHOURI
CALCULATED-DESIGNED BY
CHECKED BY
REVISOR BY
DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YUB	20	R8.0/10.2		

REGISTERED CIVIL ENGINEER DATE _____

PLANS APPROVAL DATE

DESIGN STUDY ONLY

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 CIVIL

NOTES:

- FOR ACCURATE RIGHT OF WAY, SEE RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- UTILITY LOCATIONS ARE BASED ON FIELD REVIEWS AND AERIAL PHOTOGRAPHY AND LOCATIONS ARE APPROXIMATE.
- ALIGNMENT IS BASED ON RIGHT OF WAY MAPS AND AERIAL PHOTOGRAPHY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ADVANCE PLANNING

FUNCTIONAL SUPERVISOR
ISAM TABSHOURI

REVISOR BY
 DATE REVISED

CALCULATED-DESIGNED BY
 CHECKED BY



LAYOUT
 SCALE: 1" = 100'

L-1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YUB	20	R8.0/10.2		

REGISTERED CIVIL ENGINEER DATE

INCOMPLETE PLANS FOR DESIGN STUDY ONLY

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
CIVIL

- NOTES:
- FOR ACCURATE RIGHT OF WAY, SEE RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
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 - ALIGNMENT IS BASED ON RIGHT OF WAY MAPS AND AERIAL PHOTOGRAPHY.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ADVANCE PLANNING
 FUNCTIONAL SUPERVISOR
ISAM TABSHOURI
 REVISIONS:
 REVISION NO. DATE BY

LAYOUT
 SCALE: 1" = 100'

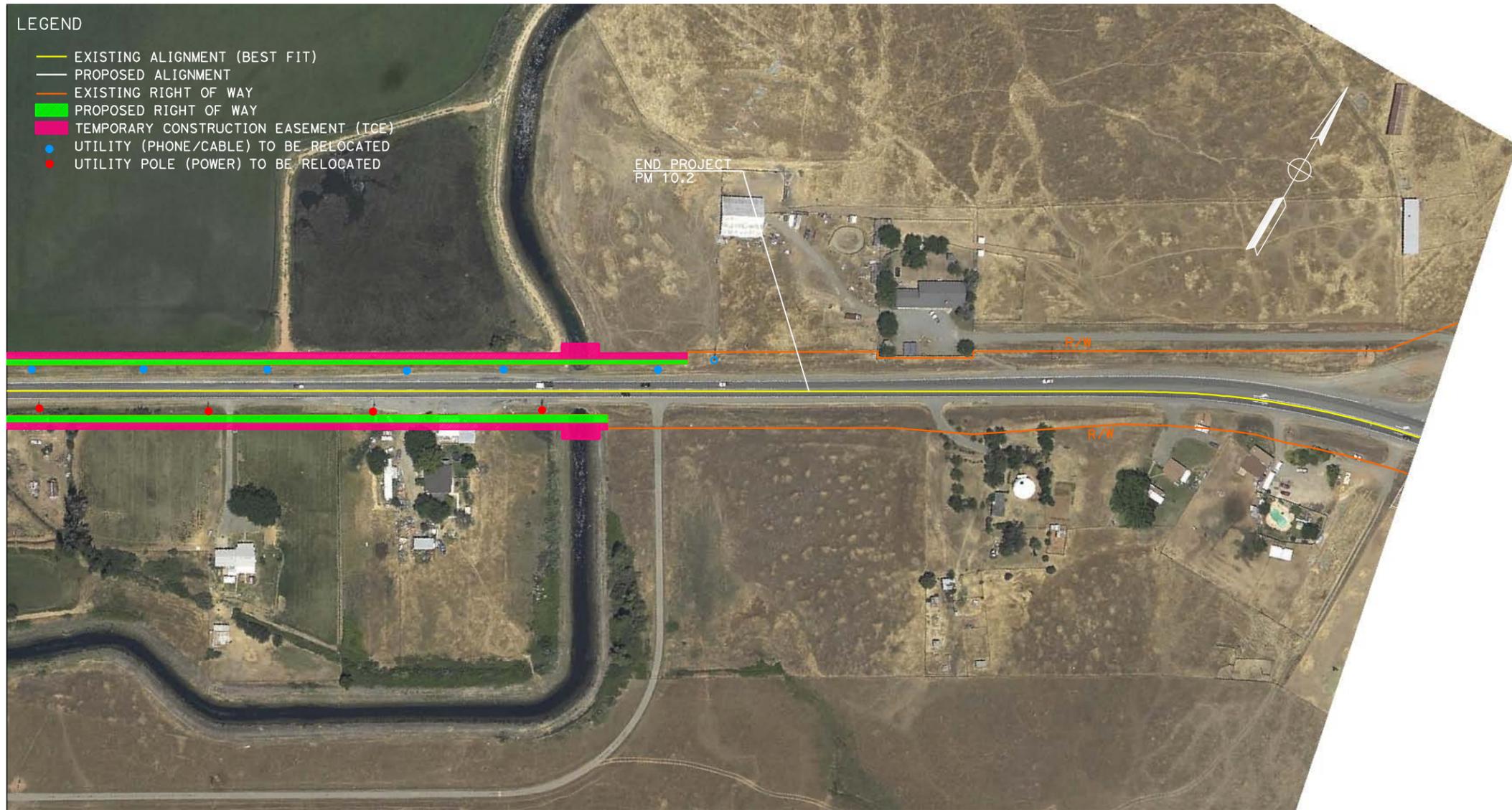
L-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YUB	20	R8.0/10.2		

REGISTERED CIVIL ENGINEER	DATE	PROFESSION
PLANS		
FOR DESIGN STUDY ONLY		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		
STATE OF CALIFORNIA CIVIL		

NOTES:

1. FOR ACCURATE RIGHT OF WAY, SEE RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. UTILITY LOCATIONS ARE BASED ON FIELD REVIEWS AND AERIAL PHOTOGRAPHY AND LOCATIONS ARE APPROXIMATE.
3. ALIGNMENT IS BASED ON RIGHT OF WAY MAPS AND AERIAL PHOTOGRAPHY.



LAYOUT
SCALE: 1" = 100'

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
Caltrans ADVANCE PLANNING	ISAM TABSHOURI	CHECKED BY	DATE REVISED

ATTACHMENT C
TRAFFIC MANAGEMENT PLAN DATA SHEET

Memorandum

*Flex your power!
Be energy efficient!*

To: Molly Richard, P.E.
Caltrans District 3
Office of Advance Planning

Date: March 8, 2011

File: 03-2F320K
Yub-20 PM 8.0/10.2
Widen Shoulders and
Rehab Pavement

From: NHAN VU
TMP Coordinator
Transportation Management Planning

Subject: Transportation Management Plan (TMP) Data Sheet

Background

This is 3R SHOPP project on State Route 20 in Yuba County from Loma Rica Road to Spring Valley Road. The project proposes to rehabilitate the pavement and widen the shoulders. The crest vertical curve near PM 9.7 will be lowered a maximum of approximately 5' in order to meet standard vertical curve requirements. This project will require the acquisition of right of way, temporary construction easements and utility relocation.

Recommendations

- On SR-20 in Yuba County, two lanes shall remain open at all time when construction operations are not actively in progress.
- Due to moderate traffic volume on Yuba 20 at PM 8.0/10.2 lane closure might be allowed during day time hours except for peak hours.
- During construction operations, a minimum of one paved traffic lane, not less than 11 feet wide, shall be open for use by public traffic.
- Lane closures on the two-lane, two-way roadway will be performed with reversible traffic control using flaggers, in accordance with Standard Plan sheet T13.
- When closures occur within 200 feet of an intersection, flaggers shall be deployed to control all legs of the intersection.
- When implementing reversible traffic control, advance flaggers are recommended in area where there is inadequate approaching sight distance.
- The maximum length of any lane closure shall be limited to 1 mile.
- Delays during reversible traffic control shall not exceed 10 minutes.
- Portable changeable message signs (PCMS) will be required in direction of traffic during construction for each lane or shoulder closure.

- Access to driveways and cross streets must be maintained during construction, in accordance with traffic control standard plans or traffic handling plans.
- Work at these locations may require the assistance of COZEEP, but a full time COZEEP presence is not anticipated.
- If there is a change in the scope or schedule of the project, the TMP unit must be advised, as this may affect the TMP recommendations.
- Coordination with projects within, or nearby the project limits will be required to avoid conflicts. Care should be taken in the timing of the schedules of each project to ensure that they are not constructed at the same time, or at a minimum to ensure that all projects are coordinated during construction to minimize any interference among the various projects.
- Closing an adjacent lane will be required for public safety when working on the shoulders.
- 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 advise 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

TMP 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

TMP Checklist

D-3 TRANSPORTATION MANAGEMENT PLAN CHECKLIST

District / EA: 03-2F320K
 Date Prepared: March 8, 2011
 Prepared By: NHAN VU

Co.Rte.-PM. Yuba 20 @ PM 8.0/10.2
 Location Within Yuba county limit

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

Description: Widen Shoulders and Rehab Pavement

REQUIRED	RECOMMENDED	NOT APPLICABLE	BEES Item No.	COMMENTS	UNIT COST	REQUIRED IN SPEC.
----------	-------------	----------------	------------------	----------	--------------	----------------------

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"/>	<input type="checkbox"/>	<input type="checkbox"/>		Within Yuba county limit		
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<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	066063			
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<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		City Transportation Department		
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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

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<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	066064			
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<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	066062			
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<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	066876			
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<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Per Lane Closure Charts		<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
<input type="checkbox"/>	<input 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:

ATTACHMENT D
MINI PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT

Mini-Preliminary Environmental Analysis Report

Project Information

District 03 County YUB Route 20 Post Mile 8.0/10.2 EA 03-2F320

Project Title: YUB 20 Widen Shoulders and Pavement Rehabilitation

Project Manager Ali Kiani Phone # 530-741-4587

Project Engineer Molly Richard Phone # 530-741-5746

Environmental Branch Chief Tammy Massengale Phone # 530-741-4041

Project Description

Purpose and Need: This project proposes to upgrade the roadway geometrics to current standards for a design speed of 55 mph and rehabilitate the existing pavement to extend the service life of the pavement. The existing vertical alignment and shoulder widths do not meet current design standards and the existing pavement is exhibiting signs of distress and will further deteriorate without action.

Description of work: The pavement will be rehabilitated and the shoulders will be widened. The crest vertical curve near PM 9.7 will be lowered approximately five feet in order to meet standard vertical curve requirements. The proposed project includes the following work: pavement grinding, pavement overlay, dig outs, crack sealing, saw cutting, new structural section, driveways, ground-in rumble strips, removal and replacement of dikes, new and/or reset metal beam guardrail, shoulder backing, thermoplastic striping, replacing and/or lining culverts, rock slope protection, roadway excavation, embankment, remove and replace fencing, temporary K railing and utility relocation.

Anticipated Environmental Approval

CEQA

Initial Study with Negative Declaration

NEPA

Categorical Exclusion

Summary Statement

In order to identify environmental issues, constraints, costs and resource needs, a mini-PEAR (Preliminary Environmental Analysis Report) was prepared for the project. Potential construction staging areas and disposal/borrow sites will need to be identified in the PA&ED phase for environmental review. A brief field review was performed by a biologist. There is a possibility of impacts to biological resources. All other technical reviews were completed using data searches.

It is anticipated an Initial Study with Negative Declaration and a Categorical Exclusion will apply to this project. Based on existing workload and available resources, it is anticipated to take 18 months to complete the environmental process. If possible, Environmental Planning would like to receive the ESR no later than February of a given year in order to complete spring surveys.

Special Considerations

Biology: Rural homes, rice fields, hay fields, wet ditches, oak woodlands, eucalyptus stands and cattle properties are common within the project limits. Wildlife observed in the project area included American crow, gulls, red-winged black birds, starlings, American kestrel, turkey vulture, western meadowlark, Swainson's hawks and Brewer's blackbirds. Raccoons, barn owl and striped

skunk were found dead on the side of the road. No amphibians were observed in the wet ditches during the general field review.

This project area may support habitat for the giant garter snake (GGS), tricolored black bird, California black rail, dwarf calicoflower and veiny monardella. These species are known to occur in the project vicinity and are protected by State and Federal agencies. The project area is known to support roosting and foraging habitat for bald eagles, coyotes, red-tailed hawks, red-shouldered hawks, Canada geese, mallards, northern pintail, snow geese and tundra swans.

Vegetation observed in the project area included valley oak, almond, wild radish, tall vervain, juniper trees, Fremont cottonwood, cedar trees, sedge, Himalayan blackberry, oats, agave, oleander, periwinkle, grape, mimosa tree, willow, bull rush, olive trees, pyracanthas, pennyroyal, redwood, honeysuckle, pine, iris, giant reed, wild mustard and teasel.

Specific field surveys will be required to determine the presence and extent of water features that fall under the jurisdiction of the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB) and the Department of Fish and Game (CDFG). Specific field studies will need to be conducted to determine the presence of GGS, tricolored black birds, California black rail, dwarf calicoflower, veiny monardella and other listed species.

Consultation with the USFWS and CDFG will be required to determine if this project will impact the GGS or any other protected plant or wildlife species and what mitigation may be necessary. Consultation with the USACE will also be required to determine the extent of impacts to jurisdictional waters and waters of the U.S. and what mitigation may be necessary.

Permits from the USACE, CDFG and RWQCB for impacts to jurisdictional waters are highly likely. If permits such as a 404, 1602 and 401 are required from these agencies, mitigation will also be required. Mitigation may include purchasing mitigation bank credits, restoration of wetlands/waters on-site or creation of wetlands/waters off site. Permits and approvals may also be necessary from the USFWS and the CDFG if impacts to protected plant and wildlife species or their habitat are unavoidable. The costs for these permits are estimated to be \$9,000 (1602), and \$1,000 (401). In addition, it is anticipated that \$20,000 may be necessary for mitigation.

Archaeology: The 1988 Negative Archaeological Survey Report for a SR 20 road widening project in Yuba County located between PM 8.2/10.1 and a search of the internal Caltrans TEA Database were consulted for this project. Seven cultural sites were identified within the project limits, four of the properties have previously been determined not eligible for listing on the National Register of Historic Places. Since cultural resources are located within the projects ESL, consultation with the State Historic Preservation Officer (SHPO) will be required. A Phase I identification study will be necessary. If impacts to any identified cultural resources cannot be avoided, a Phase II Evaluative Study must be completed. If cultural resources within the ESL cannot be protected during construction and are found to be eligible for the Federal Register of Historic Places or the California Register of Historical Resources, consultation with the SHPO and mitigation may be required.

Hazardous Waste: An ISA was completed for this project. The potential for hazardous waste exists within the ESL. The following contaminants have been identified: Aerially Deposited Lead (ADL), lead and chromium contained in the yellow traffic striping and wooden posts (treated wood waste). A Site Investigation (SI) to determine the amount of ADL within the project limits will be required.

Water Quality: A water quality assessment was completed for this project. It is important that appropriate Construction Site BMPs are deployed during construction activities to avoid/minimize impacts. It is not anticipated that any water quality impacts will result since BMP measures will take place during soil disturbance. If site dewatering is required, a dewatering plan is required. If the contractor installs batch plants or conducts rock crushing within our right-of-way, an Air Space Lease Agreement will be required prior to the start of construction activities.

Air: This project is anticipated to be exempt from all air quality conformance analysis requirements. A technical memo will be prepared during PA&ED.

Noise: This project is not anticipated to require a project level noise analysis. A technical memo will be prepared during PA&ED.

Visual Resources: Due to the time constraints, input from Landscaping staff for this analysis was not completed.

Disclaimer

This report is not an environmental document. The above recommendations are based on the project description provided in this report. The discussion and conclusions provided by this mini-PEAR are approximate and are based on field reviews and record reviews to estimate the potential for probable effects. The purpose of this report is to provide a preliminary level of environmental analysis to supplement the Project Initiation Document. Changes in project scope, alternatives, or environmental laws will require a re-evaluation of this report.

Prepared by:

Tammy Massengale
Tammy Massengale, Chief, Office of Environmental Support

Date: 3/9/11

Reviewed by:

Ali Kiani
Ali Kiani, Project Manager

Date: 3/9/11

PEAR Environmental Commitments Cost Estimate

Dist.-Co.-Rte.-KP/PM: 03 YUB 20 8.0/10.2 EA: 03-2F320

Project Description: This project proposes to upgrade the roadway geometrics to current standards for design speed of 55 mph and rehabilitate the existing pavement to extend the service life of the pavement. The existing vertical alignment and shoulder widths do not meet current design standards and the existing pavement is exhibiting signs of distress and will further deteriorate without action.

Person completing form/District Office: Tammy Massengale, North Region
Office of Environmental Support

Project Manager: Ali Kiani Phone number: 530-741-4587

	Compensation/ Mitigation	Permit & Agreement
Fish & Game 1600 Agreement	\$ 10,000	\$ 9,000
Coastal Development Permit		
State Lands Agreement		
Section 401 RWQCB Permit		\$ 1,000
COE 404 Permit- Nationwide	\$ 10,000	
COE 404 Permit- Individual		
COE Section 10 Permit		
COE Section 9 Permit		
Other:		
Oak Compensation		
Special landscaping		
Archaeological		
Biological		
Historical		
Scenic resources		
Wetland/riparian		
TOTAL (Enter zeros if no cost)	\$ 20,000	\$ 10,000

ATTACHMENT B - Resources by WBS Code

EA: 03-2F320

Description: YUB 20 Widen Shoulders and Pavement Rehabilitation

WBS Task Activity Code	Senior/ Coord	Biology	Cultural	Haz Waste	Socio- Economic	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
Assigned Unit	183	183	183	349	183	349	349	183	183	
Project Management										
100.10.05 – PA&E Init. & Png.										-
100.10.10 – PA&E Exec. & Ctrl.	11	11	11			2		28		63
100.10.15 – PA&E Closeout										-
100.10.20 – PA&E Project Shelving										-
100.10.25 – PA&E Project Unshelving										-
100.10.30 – PA&E Update Admin Record										-
100.10.35 – PA&E Cooperative Agreement										-
100.10.99 – PA&E Other Proj. Mgmt. Products										-
100.15.05 – PS&E Init. & Png.										-
100.15.10 – PS&E Exec. & Ctrl.	10	20	20			4		20		74
100.15.15 – PS&E Closeout										-
100.15.20 – PS&E Project Shelving										-
100.15.25 – PS&E Project Unshelving										-
100.15.30 – PS&E Update Admin Record										-
100.15.35 – PS&E Cooperative Agreement										-
100.15.99 – PS&E Other Proj. Mgmt. Products										-
100.20.05 – Const. Init. & Png.										-
100.20.10 – Const. Exec. & Ctrl.	10	20	20					13		63
100.20.15 – Const. Closeout										-
100.20.20 – Const. Project Shelving										-
100.20.25 – Const. Project Unshelving										-
100.20.30 – Const. Update Admin Record										-
100.20.35 – Const. Cooperative Agreement										-
100.20.99 – Const. Other Proj. Mgmt. Products										-
100.25.05 – RW Init. & Png.										-
100.25.10 – RW Exec. & Ctrl.										-
100.25.15 – RW Closeout										-
100.25.20 – RW Project Shelving										-
100.25.25 – RW Project Unshelving										-
100.25.30 – RW Update Admin Record										-
100.25.35 – RW Cooperative Agreement										-
100.25.50 – RW Ex. Coop. Agree. Relinquish										-
100.25.99 – RW Other Proj. Mgmt. Products										-
Total Project Management	31	51	51	-	-	6	-	61	-	200
Preliminary Engineering Studies and Draft Project Report										
160.05.05 – Approved PID Review	3									3
160.05.10 – Geotechnical Information Review										-
160.05.20 – Traffic Data & Forecasts Review										-
160.05.30 – Project Scope Review										-
160.05.99 – Other Updated Project Info Products										-
160.10.20 – Value Analysis										-
160.10.25 – Hydraulics/Hydrology Study										-
160.10.30 – Hwy Planting Design Concepts										-
160.10.40 – Updated Right of Way Data Sheets										-
160.10.99 – Other Engineering Studies										-
160.15.20 – Draft Project Report										-
160.15.25 – Draft PR Circ., Review & Approval	5					1				6
160.30.05 – Maps for ESR	5									5
160.30.10 – Surveys & Mapping for ESR	5									5
160.30.15 – Prop. Access Rights - Env/Eng Studies	5					4				9
160.40 – NEPA Delegation	5									5
Total Pre. Eng. Studies & Draft PR	28	-	-	-	-	5	-	-	-	33
Environmental Studies and Draft Environmental Document - Task Management Activities										
165.05.05 – Project Information Review	3	40	40			2				85
165.05.10 – Pub & Agency Scoping Process	8					7				15
165.05.15 – Alternatives for Further Study	4									4
165.05.99 – Other Env Scoping Alt ID in PID	20									20
165.10.15 – CIA, Land Use & Growth Studies										-
165.10.20 – VIA & Scenic Resource Evaluation										-
165.10.25 – Noise Study							16			16
165.10.30 – Air Quality Study							16			16

EA: 03-2F320

Description: YUB 20 Widen Shoulders and Pavement Rehabilitation

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Socio-Economic	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
Assigned Unit	183	183	183	349	183	349	349	183	183	
165.10.35 – Water Quality Studies						7				7
165.10.40 – Energy Studies										-
165.10.45 – Summary Geotech Report										-
165.10.50 – Hazardous Waste PSI				80						80
165.10.55 – Draft RW Relocation Impact Doc.										-
165.10.60 – Loc. Hyd. & Floodplain Study Rpts.										-
165.10.65 – Paleontology Study										-
165.10.70 – Wild and Scenic Rivers Coordination										-
165.10.75 – Environmental Commitments Record										-
165.10.99 – Other Environmental Studies										-
165.15.05 – Biological Assessment		173								173
165.15.10 – Wetlands Study		320								320
165.15.15 – Resource Agcy Permit Related Coord		173				2				175
165.15.20 – NES Report		320								320
165.15.99 – Other Biological Studies		173								173
165.20.05 – Archaeological Survey										-
165.20.05.05 – APE/Study Area Map(s)			16							16
165.20.05.10 – Native American Consultation			16							16
165.20.05.15 – Records & Literature Search			7							7
165.20.05.20 – Field Survey			31							31
165.20.05.25 – ASR			25							25
165.20.05.99 – Other Archy Survey Products										-
165.20.10 – Extended Phase I Archy Studies										-
165.20.10.05 – Native American Consultation			16							16
165.20.10.10 – Extended Phase I Proposal			24							24
165.20.10.15 – Extended Phase I Field Inv.			300							300
165.20.10.20 – Extended Phase I Mat. Analysis			87							87
165.20.10.25 – Extended Phase I Report			60							60
165.20.10.99 – Other Ext Phase I Archy Prod										-
165.20.15 – Phase II Archy Studies										-
165.20.15.05 – Native American Consultation			16							16
165.20.15.10 – Phase II Proposal			32							32
165.20.15.15 – Phase II Field Investigation			300							300
165.20.15.20 – Phase II Materials Analysis			60							60
165.20.15.25 – Phase II Report			45							45
165.20.15.99 – Other Ext Phase II Archy Study										-
165.20.20 – Hist & Architect Resource Studies										-
165.20.20.05 – Prelim APE/SAM for Arch.										-
165.20.20.10 – HRER - Archaeology			45							45
165.20.20.15 – HRER - Architecture			32							32
165.20.20.20 – Bridge Evaluation			16							16
165.20.20.99 – Other Hist and Arch Resource Prod										-
165.20.25 – Cultural Res. Comp. Cons. Docs.										-
165.20.25.05 – Final APE/Study Area Maps										-
165.20.25.10 – PRC 5024.5 Consultation			25							25
165.20.25.15 – HPSR/HRCR			42							42
165.20.25.20 – Finding of Effect (FOE)			32							32
165.20.25.25 – Archy Data Rec. Pln./Treat. Pln			32							32
165.20.25.30 – MOA			42							42
165.20.25.99 – Other CR Compliance Consult Prod										-
165.25.05 – DED Analysis	143									143
165.25.10 – Section 4(f) Evaluation	24									24
165.25.15 – CE/CE Determination	9									9
165.25.20 – Env. Quality Ctrl. & Other Reviews	6	25	25					30		86
165.25.25 – Approval to Circulate Resolution	3									3
165.25.30 – Environmental Coordination -	43									43
165.25.99 – Other Draft ED Products										-
165.30 – NEPA Delegation	20		5							25
Total Environmental Studies & DED	283	1,224	1,371	80	-	18	32	30	-	3,038

Permits, Agreements, and Route Adoptions during PA&ED Component - Task Management Activities

170.05 – Required Permits										-
170.10.05 – USACE Permit (404)										-
170.10.10 – US Forest Service Permit(s)										-
170.10.15 – US Coast Guard Permit										-
170.10.20 – DFG 1600 Agreement(s)										-
170.10.25 – Coastal Zone Development Permit										-
170.10.30 – Local Agency Concurrence/Permit										-

EA: 03-2F320

Description: YUB 20 Widen Shoulders and Pavement Rehabilitation

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Socio-Economic	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
Assigned Unit	183	183	183	349	183	349	349	183	183	
170.10.40 – Waste Discharge (NPDES) Permit(s)										-
170.10.45 – USFWS Approval										-
170.10.50 – RWQCB 401 Permit										-
170.10.60 – Environmental Commitments Record										-
170.10.95 – Other Permits										-
170.45 – MOU from TERO										-
170.10.55 – NEPA Delegation										-
Total Permits, Agreements & Route Adoptions	-	-	-	-	-	-	-	-	-	-
Draft Environmental Document Circulation and Preferred Project Alternative Identification - Task Management Activities										
175.05.05 – Master Dist & Inv Lists	18									18
175.05.10 – Notices Regarding Hearing & DED	29									29
175.05.15 – DED Publication & Circulation										-
175.05.20 – Federal Consistency Det. (Coastal)										-
175.05.99 – Other DED Circulation Products										-
175.10.05 – Need for Public Hearing Det.										-
175.10.10 – Public Hearing Logistics										-
175.10.15 – Displays for Public Hearing										-
175.10.20 – 2 nd Not. Pub. Hear. & Avail. of DED										-
175.10.25 – Map Display & Pub. Hearing Plan										-
175.10.30 – Display Public Hearing Maps										-
175.10.35 – Public Hearing	3		7							10
175.10.40 – Record of Public Hearing										-
175.10.99 – Other Public Hearing Products										-
175.15 – Public Comment Res. & Corr.	23									23
175.20 – Project Preferred Alternative										-
175.25 – NEPA Delegation			2							2
Total DED & Preferred Proj. Alt. Identification	73	-	9	-	-	-	-	-	-	82
Project Report and Final Environmental Document										
180.05.05 – Updated Draft Project Report	6									6
180.05.10 – Approved Project Report	14					4				18
180.05.15 – Updated Storm Water Data Report										-
180.05.99 – Other Final Project Report Products										-
180.10.05 – Approved FED	15									15
180.10.05.05 – Draft FED Review										-
180.10.05.10 – Revised Draft FED										-
180.10.05.15 – Section 4(f) Evaluation										-
180.10.05.20 – Findings										-
180.10.05.25 – Statement of Overriding Consid.										-
180.10.05.30 – CEQA Certification										-
180.10.05.35 – FHWA Approval										-
180.10.05.40 – Section 106 Cons. & MOA			31							31
180.10.05.45 – Section 7 Consult		80								80
180.10.05.50 – Final Section 4(f) Statement										-
180.10.05.55 – Floodplain Only PAF										-
180.10.05.60 – Wetlands Only PAF		80								80
180.10.05.65 – Section 404 Compliance		80								80
180.10.05.70 – Mitigation Measures		80								80
180.10.10 – Public Dist of FED, Resp to Comments	14									14
180.10.99 – Other FED Products								15		15
180.15.05 – ROD (NEPA)										-
180.15.10 – NOD (CEQA)										-
180.15.20 – Environmental Commitments Record	6									6
180.15.99 – Other Completed ED Products										-
180.20 – NEPA Delegation	10		9							19
Total PR & FED	65	320	40	-	-	4	-	15	-	444
Base Maps and Plan Sheets during PS&E Development										
185.05.05 – Project Concept Review										-
185.05.10 – Updated Project Information										-
185.05.99 – Other Updated Project Info Products										-
185.15 – Perform Preliminary Design										-
Total Base Maps and Plan Sheets during PS&E	-	-	-	-	-	-	-	-	-	-
Right of Way Property Management and Excess Land										
195.40.20 – Property Maint. & Rehab (Rentable)										-
195.40.25 – Prop. Maint. & Rehab (Non-Rentable)										-

EA: 03-2F320

Description: YUB 20 Widen Shoulders and Pavement Rehabilitation

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Socio-Economic	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
Assigned Unit	183	183	183	349	183	349	349	183	183	
195.40.30 – HW & Hazardous Materials										-
195.40.35 – Transfer of Prop to Clearance Status										-
195.40.99 – Other Property Mgmt Products										-
195.45.05 – Excess Lands Inventory										-
195.45.20 – Property Disposal up to \$15K										-
195.45.25 – Property Disposal from \$15K to \$500K										-
195.45.30 – Property Disposal over \$500K										-
195.45.99 – Other Excess Land Products										-
Total Base RW Property Mgmt and Excess Land	-	-	-	-	-	-	-	-	-	-
Utility Coordination										
200.15 – Approved Utility Relocation Plan			16							16
200.20 – Utility Relocation Package										-
Total Utility Coordination	-	-	16	-	-	-	-	-	-	16
Permits, Agreements & Route Adoptions during PS&E Component - Task Management Activities										
205.05 – Required Permits										-
205.10.05 – USACE Permit (404)		200								200
205.10.10 – US Forest Service Permit(s)										-
205.10.15 – US Coast Guard Permit										-
205.10.20 – DFG 1600 Agreement(s)		200								200
205.10.25 – Coastal Zone Development Permit										-
205.10.30 – Local Agency Concurrence/Permit										-
205.10.40 – Waste Discharge (NPDES) Permit(s)						8				8
205.10.45 – USFWS Approval		100								100
205.10.50 – RWQCB 401 Permit		200				29				229
205.10.60 – Updated ECR	6									6
205.10.95 – Other Permits		100								100
205.20.05 – Draft Freeway Agreement										-
205.20.10 – Draft Freeway Agreement Review										-
205.20.15 – Final Freeway Agreement										-
205.20.20 – Executed Freeway Agreement										-
205.25 – Agreement for Material Sites										-
205.40.99 – Other Route Adoption Products										-
205.45 – MOU from TERO										-
205.55 – NEPA Delegation			9							9
Total Agreements & Route Adoptions	6	800	9	-	-	37	-	-	-	852
Right of Way Interests for Project Right of Way Certification										
225.55.20 – Right of Way Clearance										-
Total RW Interests for Project RW Certification	-	-	-	-	-	-	-	-	-	-
Draft PS&E										
230.05.45 – Noise Barrier Plans										-
230.05.65 – Water Pollution Control Plans										-
230.10.05 – Highway Planting Plans										-
230.10.15 – Plant List										-
230.30 – Draft Drainage Plans										-
230.35.10 – Highway Planting Specifications										-
230.35.35 – Water Pollution Control Specs										-
230.35.40 – Erosion Control Specifications										-
230.35.99 – Other Draft Specification Products				8						8
230.40.10 - Calc Hwy Planting Quantities & Est.										-
230.40.40 - Calc Erosion Ctrl Quantities & Est.										-
230.60.05 – Updated Storm Water Data Report						5				5
230.60.10 – Other PS&E Reviews & Update PR	6		4			2				12
230.99 – Other Draft PS&E Products										-
Total Draft PS&E	6	-	4	8	-	7	-	-	-	25
Environmental Impact Mitigation and Hazardous Waste Clean-up - Task Management Activities										
235.05.05 – Historical Structures Mitigation										-
235.05.10 – Archaeological & Cultural Mitigation			417							417
235.05.15 – Biological Mitigation		200								200
235.05.20 – Environmental Mitigation R/W Work		100								100
235.05.25 – Paleontology Mitigation										-
235.05.99 – Other Env. Mitigation Products										-
235.10.05 – Right or Permit for HW Site Inv.										-
235.10.10 – HW Sites Survey										-

EA: 03-2F320

Description: YUB 20 Widen Shoulders and Pavement Rehabilitation

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Socio-Economic	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
Assigned Unit	183	183	183	349	183	349	349	183	183	
235.10.15 – Detailed HW Site Investigation										-
235.15 – HW Management Plan										-
235.20 – HW PS&E										-
235.25 – HW Clean-up										-
235.30 – Certificate of Sufficiency										-
235.35 – Long Term Mitigation Monitoring										-
235.40 – Updated Environmental Commit. (ECR)	6									6
235.45 – NEPA Delegation			4							4
Total Env. Impact Mitigation & HW Clean-up	6	300	421	-	-	-	-	-	-	727
Post Right of Way Certification Work										
245.55.20 – Right of Way Clearance										-
Total Post RW Clearance Work	-	-	-	-	-	-	-	-	-	-
Final District PS&E Package										
255.05 – Circ. & Rev. Draft Dist PS&E	8					5				13
255.10.10 - Update Highway Planting PS&E										
255.10.25 - Updated Technical Reports			7							7
255.15 – Environmental Reevaluation	9					2				11
255.20.05 – Rev. Plans for Drafting Stds. Comp										-
255.40 – Resident Engineer's Pending File	5									5
255.45 – NEPA Delegation	5									5
Total Final District PS&E Package	27	-	7	-	-	7	-	-	-	41
Contract Bid Documents "Ready to List"										
260.75 - Env Cert at RTL	5		3							8
Total Contract Bid Documents "RTL"	5	-	3	-	-	-	-	-	-	8
Construction Engineering and General Contract Administration										
270.15.50 – Miscellaneous Stakes										-
270.20.05 – Resident Engineer File Review										-
270.20.10 – Proj. Plans, Spec. Prov. & Est. Rev.										-
270.20.45 – Cont. WPCP Review										-
270.20.50 – Technical Support		100	98						50	248
270.25.15 – Pre-Construction Meeting										-
270.30.10 – Inspection of Const. Work for Comp.										-
270.55 – Final Inspection & Acceptance Recom.										-
270.70 – Updated ECR										-
270.75 – Resource Agency Permit Ren. & Ext.						12				12
270.80 – Long Term Env Mit/Mont during Const										-
Total Const Engineering & Gen. Contract Admin.	-	100	98	-	-	12	-	-	50	260
Construction Contract Change Orders										
285.05.05 – Need for CCO Determination									8	8
285.10.15 – "Other" Functional Support				4		12				16
Total Construction CCOs	-	-	-	4	-	12	-	-	8	24
Construction Contract Claims										
290.35 – Technical Support									8	8
Total Construction Contract Claims	-	-	-	-	-	-	-	-	8	8
Contract Acceptance, Final Construction Estimate and Final Report										
295.35 – Certificate of Environmental Compliance	6								8	14
295.40 – Long Term Env Mit/Mont after CCA										-
Total Final Construction	6	-	-	-	-	-	-	-	8	14
Total Project Hours	536	2,795	2,029	92	-	108	32	106	74	5,772

ATTACHMENT E
INITIAL SITE ASSESSMENT

Memorandum

Date: March 3, 2011

File: 03-Yuba-20
PM 8 – 10.2
EA 2F320K
EFIS # 0300020594

To: Molly Richards
Design Engineer

From: Rajive Chadha
North Region Office of Environmental Engineering (NROEE) - South

Subject: Initial Site Assessment

It is understood that this project proposes to rehabilitate the existing pavement and widen the shoulders. The project work involves pavement grinding (cold planning) and pavement overlay of the existing road surface, removal and replacement of dikes and metal beam guardrail and lowering a crest vertical curve 5 feet. The existing yellow and white traffic stripes will be cold planed along with the road surface. It is estimated that over 500 cubic yards of material will be excavated during construction and relinquished to the contractor. It is understood that right of way will be required for this project and no bridge related work will take place along this route.

The review for potential hazardous waste impacts involved a review of the project plans and aerial mapping and discussions with the design engineer. Based on this review, the potential for hazardous waste exists with respect to the following;

1) Lead-contaminated soil may exist within and near our R/W due to the historical use of leaded gasoline, leaded airline fuels, waste incineration, and et-cetera. The areas of primary concern in relation to highway facilities are soils along routes with historically high vehicle emissions due to large traffic volumes, congestion, or stop and go situations. Since soil disturbance and relinquishment to the contractor will occur, an Aerially Deposited Lead (ADL) site investigation is required. This site investigation will determine if hazardous soils exist and what actions, if any, will need to occur during construction.

2) Hazardous levels of lead and chromium are known to exist in the yellow color traffic stripes. Since these traffic stripes will be grinded off along with the roadway, the levels of lead and chromium will become non-hazardous. These grindings (which consist of the roadway material and the yellow color traffic stripes) shall be removed and disposed of in accordance with Standard Special Provision 15-305 (Residue Containing High Lead Concentration Paints) which requires a Lead Compliance Plan (LCP). Non-hazardous levels of lead are known to exist in the white traffic striping. As such, these grindings shall be removed and disposed of in accordance with the same specification. For budgetary purposes, you can assume a cost of \$ 2,000 (Use BEES item code 190110).

3) Hazardous chemicals are known to exist in the wood posts associated with the wood sign posts. As such, these posts shall be removed and disposed of in accordance with Standard Special Provision 14-010 (Treated Wood Waste).

4) A Hazardous Materials Disclosure Document (HMDD) will be required for attachment to the Certificate of Sufficiency (COS) before any new Right of Way can be acquired. Please submit final R/W mapping to the NROEE so that our office can provide the HMDD.

Since construction of the proposed project cannot avoid disturbing soils, a Site Investigation (SI) is required. A SI needs to be requested by the PE or PM and takes 2 to 5 months to complete since a task order has to be prepared, approved, and issued to a contractor. The contractor is then required

to prepare work plans, health and safety plans, conduct site investigations, and prepare site investigation reports for Caltrans review and approval.

The following support costs will be needed for this project;

Unit 349 NROEE (Hazardous Waste) Resource Hour Needs			
ISA	Site Investigation	Specs Prep	Functional Support
165.20.10	165.10.50	230.35	285.10
8	80	8	4

Should the project take place at locations other than those specified, another review will be required. Should you require further information or have any questions, I can be reached at (530) 741-4295.

- c.c. Tammy Massengale, Environmental Co-ordinator
- Isam Tabshouri, Design Senior
- Ali Kiani, Project Manager
- Douglas Coleman, NROEE - South

ATTACHMENT F
RIGHT OF WAY DATA SHEET

Memorandum

*Flex your power!
Be energy efficient!*

To: Isam Tabouri
Chief, Advance Planning
Department of Transportation, District 3

Attention Molly Richards
Project Engineer

Date: February 16, 2011
E.A.: 2F320K
PN: 0300020594
File: 03-YUB-20 PM 8.0/10.2

From: BRENDA SCHIMPF, 
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 the information received from you on February 10, 2011.

Right of Way requests a minimum of 19 months after we receive the final appraisal maps and environmental clearances in order to complete the certification timely.

Attachments:
Right of Way Data Sheet

cc. Ali Kiani

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



Date: February 16, 2011
 E.A. 2F320K
 PN: 0300020594
 File: 03-YUB-20 PM 8.0/10.2

1. Right of Way Cost Estimate:

	Current Value Future Use	Escalation Rate	Escalated Value
A. Total Acquisition Cost	\$75,250	5%	\$87,989
B. Mitigation acquisition & credits	\$0		\$0
C. Project Development Permit Fees	\$15,000	5%	\$17,539
Subtotal	\$90,250		\$105,528
D. Utility Relocation (State Share) (Owner's share: \$785,000)	\$30,000	5%	\$35,079
E. Relocation Assistance (RAP)	\$0		\$0
F. Clearance/Demolition	\$0		\$0
G. Title & Escrow	\$14,500	5%	\$16,955
H. Total Estimated Right of Way Cost	\$134,750	Rounded	\$158,000
I. Construction Contract Work	\$0		

2. Current Date of Right of Way Certification May 1, 2014

3. Parcel Data:

Type	Dual/Appr	Utilities	RR Involvements
X 0		U4 - 1 2	None X
A 0		- 2 0	C&M Agrmt
B 29		- 3 0	Svc Contract
C 0	0	- 4 0	Easements
D 0	0	U5 - 7 0	Rights of Entry
		- 8 0	Clauses
Total 29		- 9 2	
Areas:			Misc. R/W Work
R/W: 1.96 Ac.			RAP Displ N/A
TCE: 2.52 Ac.		No. Excess Pcls: 7	Clear/Demo N/A
Mitigation: N/A			Const Permits N/A
			Condemnation 3
			USA Involvement No

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.

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

Fee and Temporary Construction Easements are needed on several parcels. These parcels are primarily rice and agriculture land. It appears that some irrigation will need to be relocated and property acquired from the local reclamation district.

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

Yes X No _____

7. Is there an effect on assessed valuation?

No X

Yes _____ Not Significant _____

8. Are utility facilities or rights of way affected?

Yes X No _____

According to the P.E. there are several utility poles that will need to be relocated, 50 poles for phone and 19 poles for electrical.

9. Are railroad facilities or rights of way affected?

Yes _____ No X

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

Based on Draft/Final Relocation Impact Statement/Study dated N/A
it is anticipated that sufficient replacement housing (will/will not) be available without Last Resort Housing.

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 19 months after we receive the final appraisal maps and environmental clearances in order to complete the certification timely.

ATTACHMENT G
COST ESTIMATE BREAKDOWN

PRELIMINARY COST ESTIMATE SUMMARY

03-Yub-20-PM R8.0/10.2
03-2F320k-0300020594

PROJECT DESCRIPTION:

In Yuba County 6 miles east of Marysville from 0.1 mile east of Loma Rica Road to 0.2 mile west of Spring Valley Road.

Rehabilitate Pavement and Widen Shoulders

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$ 5,870,000
TOTAL STRUCTURE ITEMS	\$ -
SUBTOTAL CONSTRUCTION COSTS	\$ 5,870,000
TOTAL RIGHT OF WAY ITEMS	\$ 160,000
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$ 6,030,000

Reviewed by District
Program Manager

Signature

Date

Approved by
Project Manager

Signature

Date

I. ROADWAY ITEMS

Quantity Unit Unit Price Item Cost Section Cost

Section 1: Earthwork

Retaining Wall				
Roadway Excavation	17,000	CY	\$ 14	\$ 238,000
Imported Borrow			\$ -	\$ -
Clearing & Grubbing	1	LS	\$ 20,000	\$ 20,000
Develop Water Supply	1	LS	\$ 10,000	\$ 10,000

Subtotal Earthwork \$ 268,000

Section 2: Pavement Structural Section

Hot Mix Asphalt (Type A)	5,200	TON	\$ 75	\$ 390,000
Rubberized Hot Mix Asphalt (Type G)	7,600	TON	\$ 75	\$ 570,000
Rubberized Hot Mix Asphalt (Type O)	3,800	TON	\$ 75	\$ 285,000
Aggregate Base	14,000	CY	\$ 30	\$ 420,000
HMA Dike Type E	1,000	LF	\$ 3	\$ 3,000
Overside Drain	1	LS	\$ 500	\$ 500

Subtotal Pavement Structural Sections \$ 1,668,500

Section 3: Drainage

Large Drainage Facilities			\$ -	\$ -
Storm Drains			\$ -	\$ -
Pumping Plants			\$ -	\$ -
Extend Reinforced Box Culvert	1	LS	\$ 70,000	\$ 70,000
Replace Culverts	5	EA	\$ 7,000	\$ 35,000

Subtotal Drainage \$ 105,000

Quantity Unit Unit Price Item Cost Section Cost

Section 4: Specialty Items

Prepare SWPPP	1	LS	\$ 5,000	\$ 5,000
Concrete Barrier				\$ -
Metal Beam Guard Railing				\$ -
Facilities - Temp Fence & Gate	8,000	LF	\$ 6	\$ 48,000
Fence (Remove and Replace)	8,000	LF	\$ 10	\$ 80,000
Landscape	1	LS	\$ 200,000	\$ 200,000
Construction Site BMPs	1	LS	\$ 150,000	\$ 150,000
Lead Compliance Plan	1	LS	\$ 2,000	\$ 2,000
Environmental Mitigation	1	LS	\$ 20,000	\$ 20,000
Environmental Permits	1	LS	\$ 10,000	\$ 10,000
Resident Engineer Office Space	1	LS	\$ 20,000	\$ 20,000

Subtotal Specialty Items **\$ 535,000**

Section 5: Traffic Items

Traffic Delineation Items	1	LS	\$ 30,000	\$ 30,000
Traffic Electrical				\$ -
Roadside Signs (Const Area)	1	LS	\$ 5,000	\$ 5,000
Overhead Sign				\$ -
COZEEP	40	Days	\$ 1,000	\$ 40,000
Traffic Control	80	Days	\$ 2,500	\$ 200,000
Temporary Railing, Type K	20,000	LF	\$ 15	\$ 300,000

Subtotal Traffic Items **\$ 575,000**

SUBTOTAL SECTIONS 1 THROUGH 5 **\$ 3,151,500**

Section 6: Minor

Section Cost

$$\boxed{\$ 3,151,500} \times \boxed{0.20} = \boxed{\$ 630,300}$$

(Subtotal Sections 1-5)

Total Minor Items $\boxed{\$ 631,000}$

Section 7: Roadway Mobilization

$$\boxed{\$ 3,781,800} \times \boxed{0.10} = \boxed{\$ 378,180}$$

(Subtotal Sections 1-6)

Total Roadway Mobilization $\boxed{\$ 379,000}$

Section 8: Roadway Additions

Supplemental Work

$$\boxed{\$ 3,781,800} \times \boxed{0.10} \times X = \boxed{\$ 378,180}$$

(Subtotal Sections 1-6)

Contingencies

$$\boxed{\$ 3,781,800} \times \boxed{0.35} \times X = \boxed{\$ 1,323,630}$$

(Subtotal Sections 1-6)

Total Roadway Additions $\boxed{\$ 1,701,810}$

TOTAL ROADWAY ITEMS $\boxed{\$ 5,864,000}$

(Subtotal Sections 1-8)

Estimate Prepared By: Molly Richard
(Print Name)

Date: 3/11/2011
Phone: (530) 741-5746

Estimate Checked By: _____
(Print Name)

Date: _____
Phone: _____

II. Structures Items

Section Cost

Structure (1) Structure (2) Structure (3)

	Not Applicable		
Structure Type			
Width (out to out) (m)			
Span Lengths (m)			
Total Area (m2)			
Footing Type (pile/spread)			
Cost per m2	\$ -	\$ -	\$ -

(incl. 10% mobilization and 25% contingency)

Total Cost for Structure

	\$ -	\$ -
--	------	------

Subtotal Structures Items

\$ -

III. Railroad Related Costs

Quantity Unit Unit Price Item Cost Section Cost

Not Applicable			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Subtotal Railroad Costs

\$ -

TOTAL STRUCTURES AND RAILROAD ITEMS

\$ -

Estimate Prepared By: _____
(Print Name)

Date: _____
Phone: _____

IV. Right of Way Escalated Value

Item Cost

Acquisition (including excess lands, damages to remainder(s) and goodwill)	\$ 87,989
Project Development Permit Fees	\$ 17,539
Utility Relocation (State share)	\$ 35,079
Relocation Assistance	\$ -
Clearance/Demolition	\$ -
Title and Escrow Fees	\$ 16,955

TOTAL RIGHT OF WAY ITEMS \$ 158,000

Anticipated Date of Right of Way Certification May 1, 2014
 (Date to which values are escalated)

Construction Contract Work:

Brief Description of Work:

Right of Way Branch Cost Estimate for Work* \$ -

* This dollar amount is to be included in the Roadway and/or Structures items of work, as appropriate. Do not include in Right of Way items.

Estimate Prepared By: Kelly Kilpatrick
 (Print Name)

Date: February 16, 2011
 Phone: (530) 740-4915

Cost Estimate 2f320.xls
ESCALATION

Escalated Values

	10/11	11/12	12/13	13/14
Roadway	\$ 5,870,000	\$ 6,080,000	\$ 6,300,000	\$ 6,530,000
Structures	\$ -	\$ -	\$ -	\$ -
Right of Way				\$ 160,000
Total Capital Costs in 13/14 FY				\$ 6,690,000

*Escalation rate is 3.5%.

ATTACHMENT H
PROGRAMMING SHEET

PROGRAMMING SHEET - 2010/2011

EA: 03-2F320
Proj Name: No Nick

Project Manager: Ali Kiani
Co-Rte-PM: YUB-020- 008.0/ 010.2

Date: 04/06/2011
Type: SHOPP

PROJECT SCHEDULE

MILESTONE		DATE (STATUS)
Begin Environmental Document	M020	04/01/2011 (T)
Begin Project Report	M040	04/01/2011 (T)
Circulate Environmental Document (DED)	M120	08/01/2012 (T)
Project Approval & Environmental Document (PA&ED)	M200	12/01/2012 (T)
District Submits Bridge Site Data to Structures	M221	
Right of Way Maps	M224	02/01/2013 (T)
Regular Right of Way	M225	05/01/2013 (T)
District Plans, Specifications & Estimates to DOE	M377	12/01/2013 (T)
Draft Structures Plans, Specifications & Estimates	M378	
District Plans, Specifications & Estimates (PS&E)	M380	03/01/2014 (T)
Right of Way Certification	M410	05/01/2014 (T)
Ready to List (RTL)	M460	06/01/2014 (T)
Headquarters Advertise (HQ AD)	M480	08/15/2014 (T)
Approve Construction Contract	M500	11/15/2014 (T)
Contract Acceptance (CCA)	M600	11/15/2016 (T)
End Project	M800	11/15/2018 (T)

ESTIMATE	DATE	AMOUNT
ROADWAY	03/25/11	\$ 5808
BRIDGE		\$ 0
Subtotal Const		\$ 5808
RIGHT OF WAY	02/23/11	\$ 158
MITIGATION		\$ 0
Subtotal RW		\$ 158
GRAND TOTAL		\$ 5966

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+	10/11+	11/12 (3.5%)	12/13 (3.5%)	13/14 (3.5%)	14/15 (3.5%)	Future++ (3.5%)	Total	
Right of Way				53	105			\$ 158	
Construction					6439			\$ 6,439	
CAPITAL COSTS TOTAL								\$ 6,597	
SUPPORT COSTS (Escalation Factor)			(1.5%)	(1.5%)	(1.5%)	(1.5%)	(1.5%)		Sup/Cap
PAED		42	172	54				\$ 268	4.06%
PS&E				133	85	20		\$ 237	3.60%
Right of Way				61	270	18	60	\$ 409	6.19%
Construction						25	61	\$ 86	1.31%
SUPPORT COSTS TOTAL								\$ 1,000	15.16%
TOTAL PROJECT COSTS								\$ 7,598	

PROJECT SUPPORT IN PYS

	Prior Yrs	10/11	11/12	12/13	13/14	14/15	Future	Total	PY %
Environmental	0.00	0.33	1.35	1.13	0.29	0.07	0.16	3.33	29.21%
Design	0.00	0.00	0.02	0.11	0.06	0.00	0.01	0.20	1.75%
Engineering Services	0.00	0.02	0.06	0.04	0.03	0.01	0.02	0.18	1.58%
Surveys	0.00	0.00	0.00	0.05	0.00	0.01	0.02	0.08	0.70%
Right of Way	0.00	0.01	0.05	0.68	2.29	0.15	0.50	3.68	32.28%
Traffic	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.03	0.26%
Construction	0.00	0.00	0.00	0.00	0.00	0.06	0.15	0.21	1.84%
Project Management	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.02	0.18%
District Units*	0.00	0.32	1.28	1.09	0.29	0.06	0.15	3.19	27.98%
Subtotal Dist/Region Resources	0.00	0.68	2.76	3.12	2.98	0.36	1.02	10.92	95.79%
59-DES Project Development	0.00	0.00	0.01	0.01	0.01	0.08	0.09	0.20	1.75%
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	0.18	0.10	0.00	0.28	2.46%
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	0.01	0.01	0.19	0.18	0.09	0.48	4.21%
TOTAL PYS	0.00	0.68	2.77	3.13	3.17	0.54	1.11	11.40	

*Admin, Plng, Maintenance

**DES Admin, DES Plng, DES Maintenance

HRS/PYS = 1758

Comments: