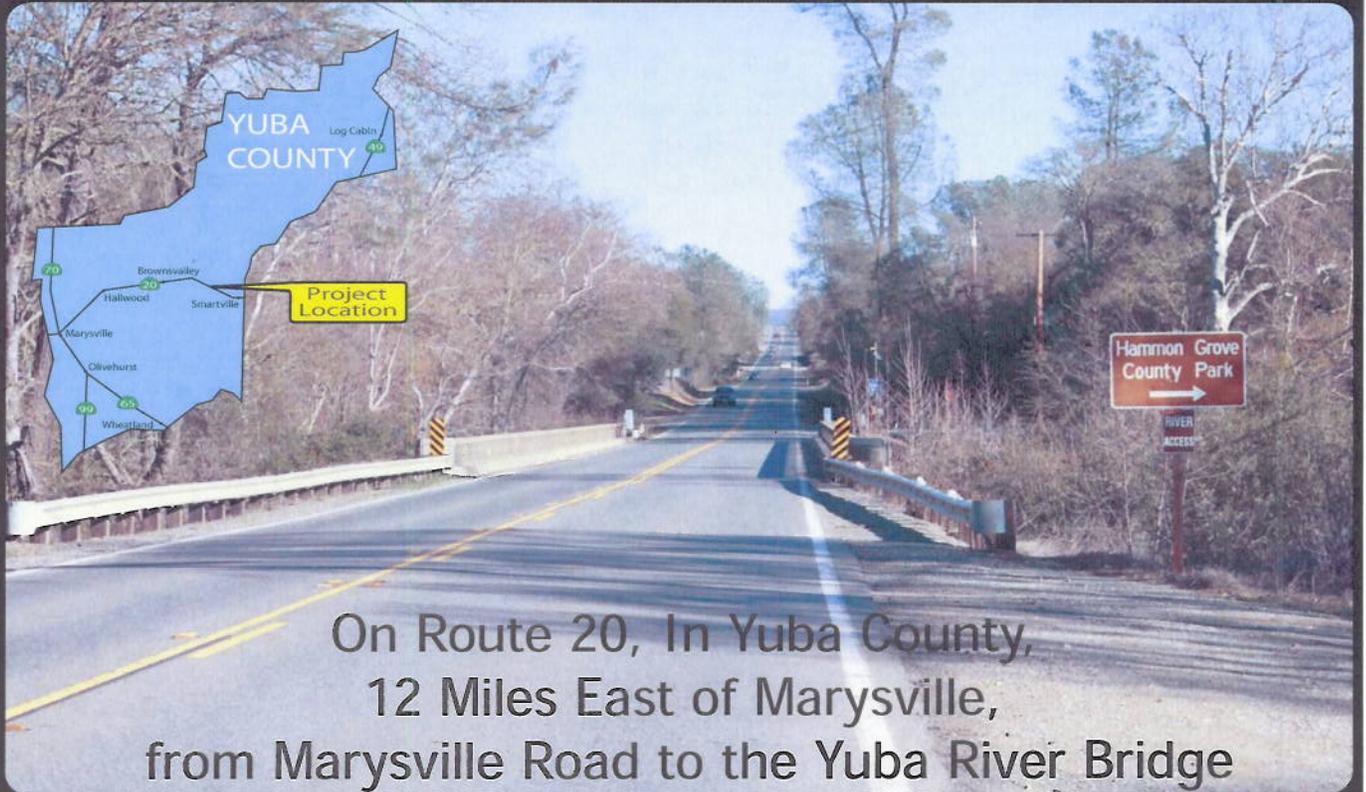




03-YUB-20 PM 13.3/R17.8
 03-0A570K
 Project Id No. 0300020593
 20.XX.201.120
 March 2011

PROJECT SCOPE SUMMARY REPORT (Rehabilitate Pavement and Widen Shoulders)



On Route 20, In Yuba County,
 12 Miles East of Marysville,
 from Marysville Road to the Yuba River Bridge

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:

Brenda Schimpf 3/30/11
 BRENDASCHIMPF Date
 District Division Chief - NR Right of Way

APPROVAL
 RECOMMENDED:

Ali Kiani for 3/30/11
 ALI KIANI Date
 Project Manager

APPROVED BY:

Jody Jones 4/4/11
 JODY JONES Date
 District Director, District 3

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 12 miles east of Marysville from Marysville Road to the Yuba River (Parks Bar) Bridge. This project will widen the shoulders to eight feet, widen Dry Creek Bridge to accommodate standard shoulders, and realign the non-standard horizontal curves in the section between Stacey Ann Drive and Sicard Flat Road.

2011 Capital Costs*: \$ 26,970,000

Structures: \$ 3,550,000

Roadway: \$ 19,620,000

Right of Way: \$ 3,800,000

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 horizontal 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 provide geometric design consistency with adjacent sections of the highway which will include widening the shoulders and realigning the highway between Stacy Ann Drive and Sicard Flat Road. 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

*Escalated to 13/14 fiscal year; see Programming Sheet, *Attachment I*, for additional information.

- Seal cracks wider than 0.25”
- Overlay 0.2’ Rubberized Hot Mix Asphalt (Type G)
- Overlay 0.1’ Rubberized Hot Mix Asphalt (Type O)
- Widen shoulders to 8’
- Widen Dry Creek Bridge (Br. No. 16-10) and perform seismic retrofit
- Upgrade horizontal curves to a minimum radius of 1000’
- Upgrade vertical curves to standard, where feasible
- Maintain truck climbing lanes
- Upgrade metal beam guardrail to current standards
- 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 near post mile 13.5
- Relocate utilities that encroach in Clear Recovery Zone
- Highway lighting

This alternative is estimated to take two construction seasons to complete. Construction costs for this alternative are estimated at \$26,970,000.

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

4. Existing Facility

SR 20 begins at State Route 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) D. By the year 2027, the operation of the facility is expected to decline to LOS E. Curve improvements and shoulder widening would enable the highway to maintain the LOS D standard.

Roadway Geometric Information

State Route 20 within the project limits is a two-lane conventional highway in rolling terrain with multiple at-grade intersections and 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	500'	2-3	11-12 ft	AC	1'-8'	1'-8'	N/A	N/A
Proposed	1000'	2-3	12 ft	AC	8'	8'	N/A	N/A
Standard	1000'		12 ft		8'	8'	N/A	N/A

Structures Information

Dry Creek Bridge (16-10) will need to be widened to accommodate 8' shoulders. Structures Maintenance and Investigations has also determined that seismic retrofit is required on the structure. Due to time constraints, a Structures Advance Planning Study was not completed for this project, but the HQ Technical Liaison created a ballpark cost estimate; see *Attachment C* and Table 2 for more information.

Table 2 - Structures Information

Structure	Width Between Curbs			Standards Met?		Vertical Clearance Over Main-Line			Existing Condition	
				Bridge Rail	Bridge Approach Rail				Bridge Approach Slab	AC Overlay
Number	Exist	Std	Prop	Yes or No		Exist	Std	Prop	Yes or No	
16-10	26'	40'	40'	No	No	N/A	N/A	N/A	No	Yes

Pedestrian and Bicyclist Information

This portion of SR 20 is designated as bicycle accessible. Widening the shoulders to standard width will create a better 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 3 below. The highway has a directional split of 66% and 4% truck traffic.

Table 3 – Traffic Data

Year		Annual ADT	Peak Hour	Traffic Index
Base Year	2009	7,600	800	
Construction Year	2014	8,470	890	9.0
20-Year	2034	12,000	1,260	9.5

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 4.

Table 4 – Collision History

County	Route	PM	DIR	TOT	FAT	INJ	F+I	Actual			Average		
								FAT	F+I	TOTAL	FAT	F+I	TOTAL
Yuba	20	13.3- R17.8	Both	37	1	18	19	0.015	0.29	0.57	0.037	0.71	1.43

During the three-year period there were 37 collisions within the project limits resulting in 18 injuries and one fatality. The primary collision factor for collisions included other violations (35%), speeding (24%), other than driver (16%), improper turns (14%), alcohol (5%), failing to yield (3%) or improper driving (3%).

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.
- Grade side slopes to 4:1 or flatter and replace headwalls within the clear recovery zone with flared end sections.
- 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 D* for more information.

Lane closures with one-way reversible traffic control during the daytime hours will be allowed, but may be restricted during peak hours. During lane closures, flaggers must be used near intersections and where sight distance is restricted. 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 or shoulder closure. 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, a mini-Preliminary Environmental Analysis Report (PEAR) was prepared for the project (see *Attachment E*). 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 26 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.

USACE, CDFG, and Regional Water Quality Control Board (RWQCB) may require permits. If permits such as a 404, 1602, and/or 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 cost for both of these permits is estimated to be \$41,500. In addition, it is anticipated that \$3,940,000 may be necessary for mitigation.

Archaeology

Previous project reports and an internal Caltrans database were consulted to determine possible archaeological impacts. Sixty cultural sites were identified within the project limits, nine of which are located within the environmental study limits (ESL). Consultation with the State Historic Preservation Officer 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 ESL. 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 F*.

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 take 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

Most of the project limits are 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. Near Dry Creek and Yuba River there are areas designated as Zone A, Areas of Special Flood Hazard, with no base flood elevations known. Encroachment in the floodplain will be restricted in this area and the existing highway profile must be maintained.

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 13.5 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 G*). This project will require Right of Way acquisition and temporary construction easements.

Multiple utilities will need to be relocated to realign the highway. No underground utilities were found within the project limits during preliminary research of existing utilities.

9. Other Agencies Involved

Coordination with Yuba County is recommended while developing this project. Coordination with USACE, CDFG, RWQCB, and USFWS will be required; 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. This project is an incremental improvement toward the ultimate facility and does not conflict with the ultimate planned facility. No other projects are currently proposed in the vicinity of this project.

Salvaging and Recycling of Hardware and Other Non-Renewable Resources

The contractor may 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 I* 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
Structures Liaison Engineer	Moe Amini
Right of Way Agent	Poppea Darling
Environmental	Tammy Massengale
Hazardous Waste	Alicia Beyer
Traffic Management Planning	Maher Dabbagh

13. List of Attachments

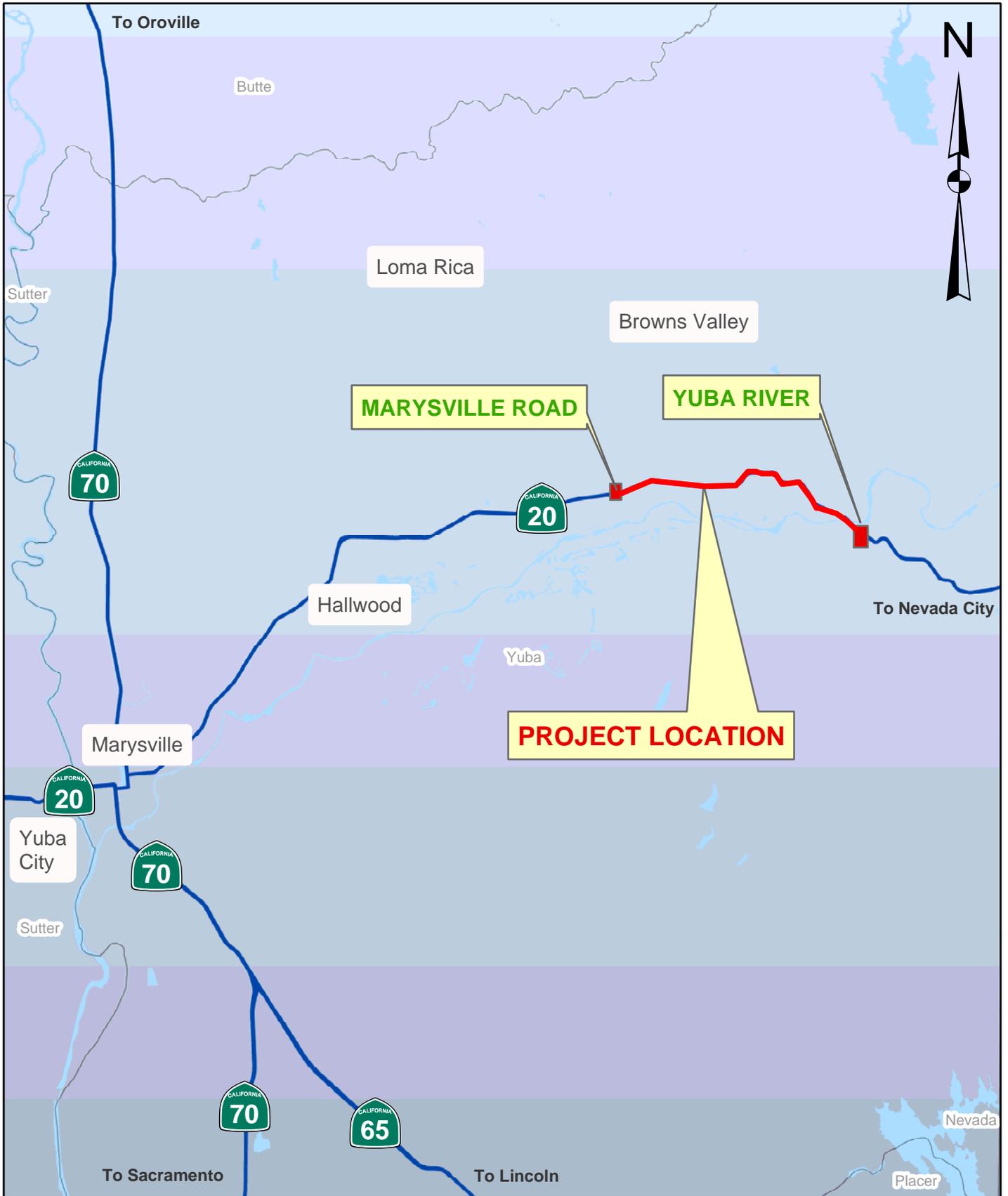
- A. Location Map
- B. Typical Cross Sections and Layouts
- C. HQ Structures Liaison Ballpark Cost Estimate Memo
- D. Traffic Management Plan (TMP) Data Sheet
- E. Mini Preliminary Environmental Analysis Report (PEAR)
- F. Initial Site Assessment (ISA)
- G. Right of Way Data Sheet
- H. Cost Estimate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

ATTACHMENT A
LOCATION MAP

LOCATION MAP

Yuba 20 - Rehabilitate Pavement and Widen Shoulders

YUB-20-PM 13.3/R17.8 EA 0A570K



ATTACHMENT B
TYPICAL CROSS SECTIONS AND LAYOUTS

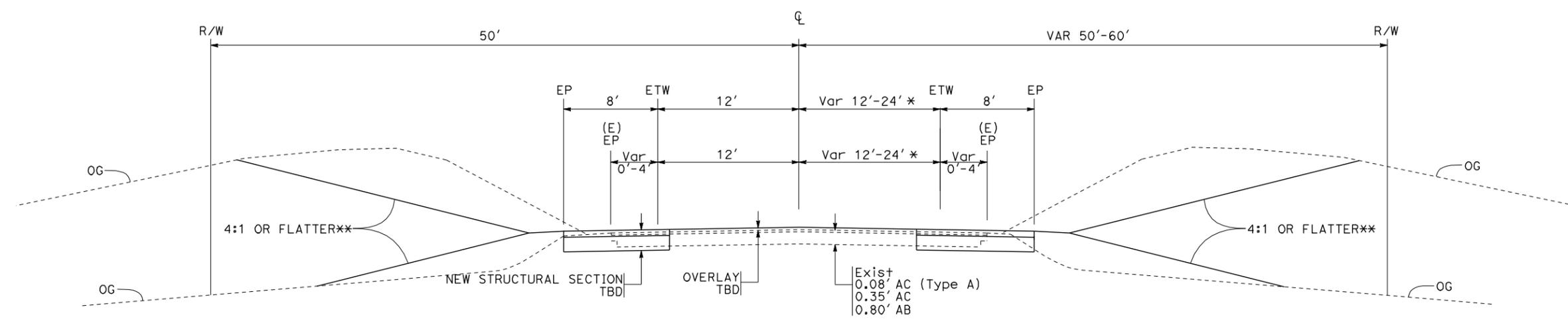
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yub	20	13.3/R17.8		

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL	DESIGN STUDY ONLY
No.	EXP.

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.

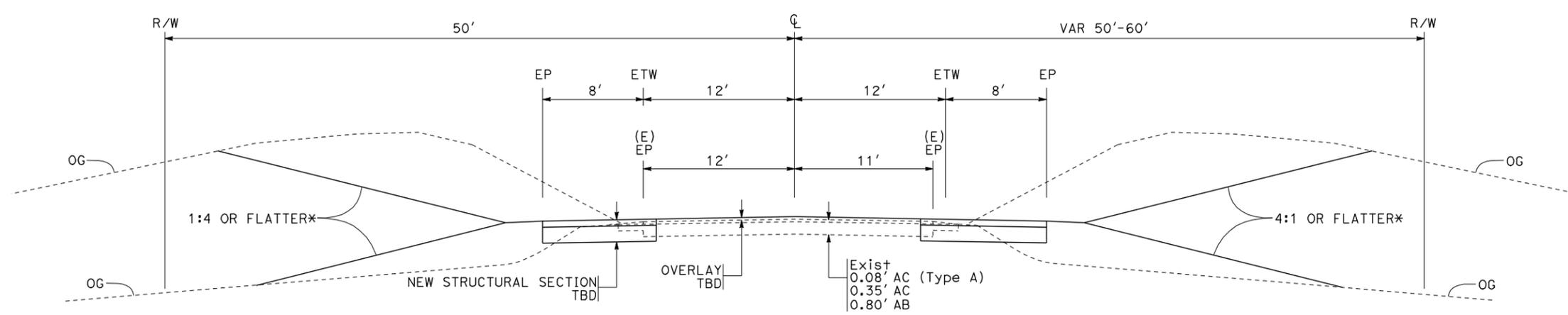
NOTES:

1. POST MILE LIMITS ARE APPROXIMATE.
2. ORIGINAL GROUND IS APPROXIMATE BASED ON FIELD REVIEWS, PHOTOLOG, AERIAL PHOTOGRAPHY AND TOPOGRAPHIC MAPS.



ROUTE 20 - PM 13.899 TO 15.990

* PASSING LANE FROM PM 15.275 TO 15.990
 ** SLOPES SHOULD BE 4:1 OR FLATTER, WHERE FEASIBLE



ROUTE 20 - PM 13.3 TO 13.899

* SLOPES SHOULD BE 4:1 OR FLATTER, WHERE FEASIBLE

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Functional Supervisor
 Revised By
 Date Revised
 Calculated/Designed By
 Checked By

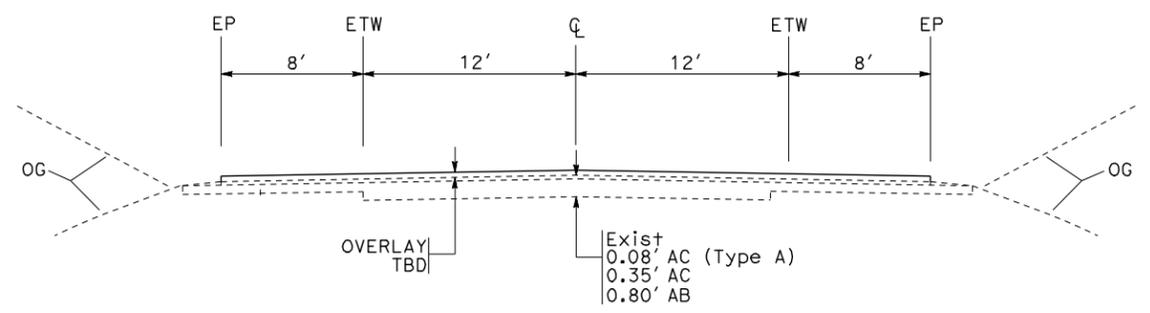


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yub	20	13.3/R17.8		

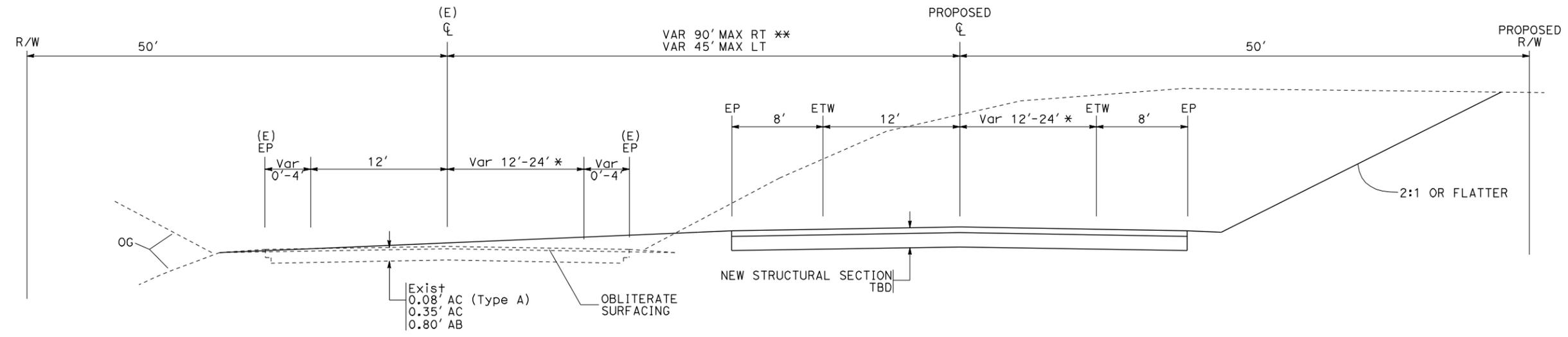
REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL	DESIGN STUDY ONLY
No.	EXP.
STATE OF CALIFORNIA	

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.

NOTES:
 1. POST MILE LIMITS ARE APPROXIMATE.
 2. ORIGINAL GROUND IS APPROXIMATE BASED ON FIELD REVIEWS, PHOTOLOG, AERIAL PHOTOGRAPHY AND TOPOGRAPHIC MAPS.



ROUTE 20 - PM 16.988 TO R17.8



ROUTE 20 - PM 15.990 TO 16.988

* PASSING LANE FROM PM 16.490 TO 16.988
 ** REALIGNMENT SHIFTS HIGHWAY CENTERLINE TO LEFT AND RIGHT EXISTING CENTERLINE. SEE LAYOUTS FOR MORE INFORMATION.

TYPICAL CROSS SECTIONS

NO SCALE

X-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

REVISOR BY: _____ DATE: _____
 CHECKED BY: _____

FUNCTIONAL SUPERVISOR: _____

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yub	20	13.3/R17.8		

REGISTERED CIVIL ENGINEER DATE

INCOMPLETE PLANS

PLANS APPROVAL **FOR DESIGN STUDY ONLY**

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

PROFESSOR

Exp. No.

CIVIL

STATE OF CALIFORNIA

NOTES:
 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA
 EXISTING ALIGNMENT (YELLOW)

No.	⊕	R	Δ	T	L
1		2000'	27°19'51"	486.27'	954.03'

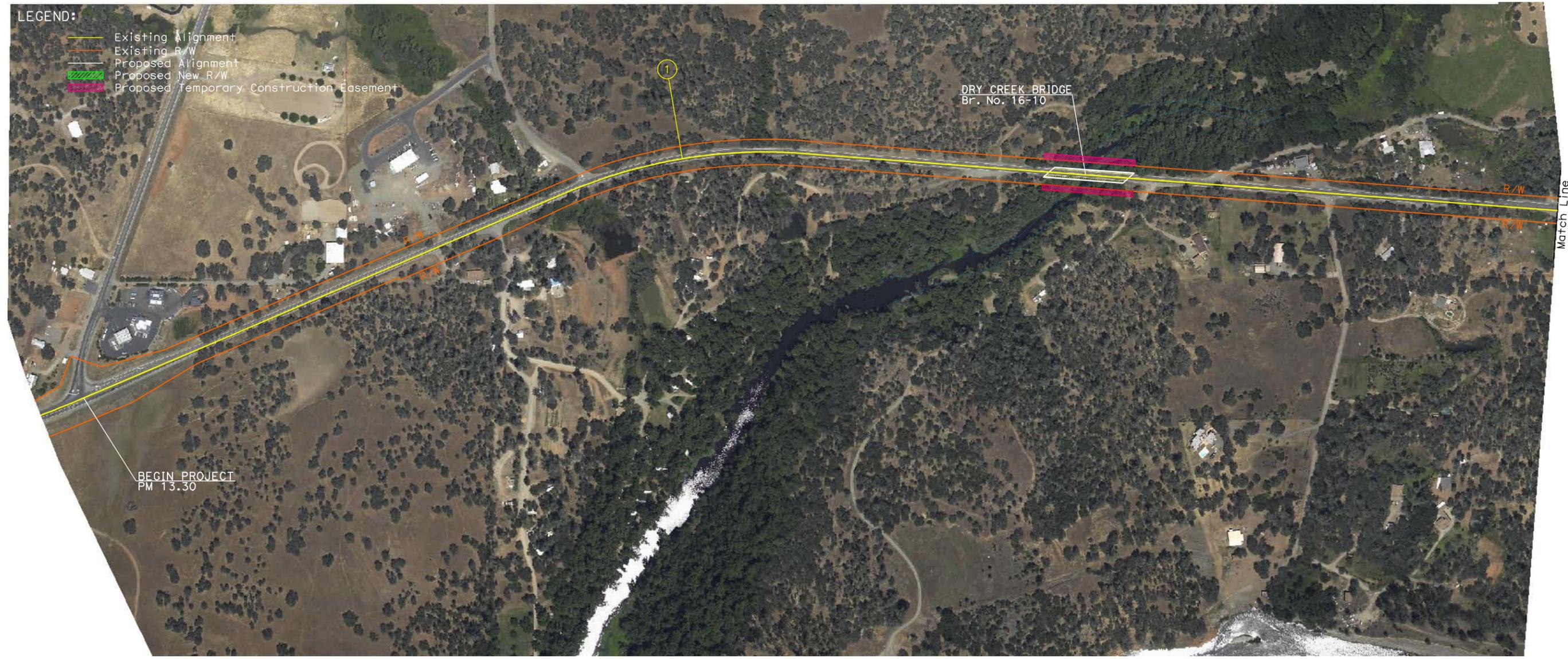


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ADVANCE PLANNING

FUNCTIONAL SUPERVISOR
ISAM TABSHOURI

REVISOR BY
 DATE REVISOR

CALCULATED-DESIGNED BY
 CHECKED BY



LAYOUT
 SCALE: 1" = 200'

L-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yub	20	13.3/R17.8		

REGISTERED CIVIL ENGINEER DATE

INCOMPLETE PLANS

FOR DESIGN STUDY ONLY

PLANS APPROVAL

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

Exp. No. CIVIL



NOTES:
 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA
EXISTING ALIGNMENT (YELLOW)

No.	⊕	R	Δ	T	L
2		6999'	7°18'24"	446.89'	892.58'
3		1000'	53°21'24"	502.47'	931.25'

- LEGEND:**
- Existing Alignment
 - Existing R/W
 - Proposed Alignment
 - Proposed New R/W
 - Proposed Temporary Construction Easement



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ADVANCE PLANNING
 FUNCTIONAL SUPERVISOR
ISAM TABSHOURI
 REVISIONS: (Grid of X's)
 REVISOR: (Grid of X's)
 DATE: (Grid of X's)
 CHECKED BY: (Grid of X's)
 DESIGNED BY: (Grid of X's)

LAYOUT
SCALE: 1" = 200'

L-2

ATTACHMENT C
HQ STRUCTURES BALLPARK COST ESTIMATE MEMO

Memorandum

*Flex your power!
Be energy efficient!*

To: MOLLY RICHARD
Office of Advance Planning
North Region
District 03

Date: March 4, 2011
File: 03-Yub-20-PM13.3/18
Bridge Widening
03-0A570K
0300020593K

From: MOE AMINI
Technical Liaison Engineer
Bridge Design North
Division of Engineering Services

Subject: Ballpark Cost Estimate

As you requested by e-mail on 3/02/2011, a Ballpark Cost Estimate has been prepared for widening of Dry Creek Bridge as shown on the typical section you provided. I Assumed PC/PS double "T" girder to be used for widening and retrofit the existing structure for Seismic as recommended by SM&I.

The estimated construction cost, include 10% Time Related Overhead, 10% mobilization and 40% contingency.

Ballpark Cost Estimate

Widening of existing structure, 10' each side	\$3,200,000
Bridge removal	\$20,000

If you have any questions, please call me at 916-227-8797

c: T Ostrom
J Young

ATTACHMENT D
TRAFFIC MANAGEMENT PLAN DATA SHEET

Memorandum

*Flex your power!
Be energy efficient!*

To: MOLLY RICHARD
District 3-Office of Advance Planning

Date: March 8, 2011

File: 03-0A570K
03-Yub-20
PM 13.3/17.8
Preventative Maintenance

From: MAHER DABBAGH
TMP Coordinator
Transportation Management Planning

Subject: Transportation Management Plan (TMP) Data Sheet

Background

- This project is located in Yuba County on State Route (SR) 20, from PM 13.3 to PM 17.8. The project proposes to rehabilitate the pavement, widen the shoulders, and widen Dry Creek Bridge (Br No. 16-10) at PM 13.9 to accommodate standard shoulders. The segment between Stacy Ann Drive and Sicard Flat Rd. will be realigned to meet current design standards.
- The stretch of roadway within the project limits consists of 2-lane, 2-way conventional roadway with traffic peak hour volume of 900 vph (both directions combined).
- Truck traffic at this location on SR-20 averages 6.6% of the total AADT.

Recommendations

- On SR-20 in Yuba County, two lanes shall remain open at all time when construction operations are not actively in progress.
- 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.
- Reversible traffic control will be allowed during daytime hours, but will be restricted during peak hours.
- When removing the bridge rail during widening operation, temporary railing (K-rail) with Gawk screen shall be secured in place prior to allowing traffic on the bridge.
- 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.

- Delays during reversible traffic control shall not exceed 10 minutes.
- Closing an adjacent lane will be required when working on the shoulders.
- The maximum length of any lane closure shall be limited to 1 mile.
- 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.
- Pedestrian and bicycle access must be maintained during construction. Additional signs will be required to detour pedestrians and bicycle traffic.
- 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.
- Lane closure charts will have to be developed prior to P&E.

Cost

- For estimating purposes, use \$2,500 per working day that requires traffic control to estimate the costs for the Traffic Management Plan (TMP) items. These items include:
 - Traffic Control System: \$1,000/traffic control day
 - Portable Changeable Message Signs: \$300/traffic control day
 - Maintain Traffic: \$1,200/traffic control day
- The cost for Public Information Office (PIO) is estimated at \$500 (lump sum) for this project. The PIO funds are paid for public outreach in the form of fliers, mailers, brochures and other uses as determined by the Public Information Officer.
- 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, project schedule, and a contact person.

MOLLY RICHARD

June 3, 2010

Page 3

Needed Resources

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

Activity 160	70 hours
Activity 230	180 hours
Activity 255	40 hours
Activity 265	20 hours
Activity 270	30 hours
Activity 285	10 hours

Attachments

TMP Checklist

D-3 TRANSPORTATION MANAGEMENT PLAN CHECKLIST

District / EA: 03-0A570K
Date Prepared: March 9, 2011
Prepared By: Maher Dabbagh

Co.Rte.-PM Yub-20 PM 13.3/17.8
Location: Yub/Route 20 from Marysville Rd to River Bridge.

Description: Preventative Maintenance

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
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<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	066063			
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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

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

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	066062			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	066065			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	066876			
<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"/>				
<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>				
<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	Uses when widening the Bridge		X
X			129150	Uses when widening the Bridge		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				

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 E
MINI PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT

Mini-Preliminary Environmental Analysis Report

Project Information

District 03 County YUB Route 20 Post Mile 13.3/R17.8 EA 03-0A570

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, which will include realigning a portion of the highway and widening the existing shoulders. This project will also rehabilitate the existing pavement in the remaining portion to extend the service life of the pavement. The existing horizontal alignment and shoulder widths do not meet current standards. Restricted sight distance from Stacy Ann Drive to Sicard Flat Road has resulted in a speed reduction in that location to as low as 40 mph. The existing pavement is exhibiting signs of distress and will further deteriorate without action.

Description of work: The project proposes to realign a portion of the road, rehabilitate the pavement and widen the shoulders. This will require the acquisition of right of way and temporary construction easements. Dry Creek Bridge (B. No. 16-10 at PM 13.9) will be widened to accommodate standard shoulders. The scope of work includes: pavement grinding, pavement overlay, digouts, crack sealing, sawcutting, new structural section, driveways, ground-in rumble strips, removal and replacement of dikes, new and/or set metal beam guardrail, shoulder backing, thermoplastic striping, replacing and/or lining culverts, rock slope protection, roadway excavation, embankment, remove and replace fence, temporary railing (Type K) and structure widening.

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. Due to weather conditions and time constraints no field reviews were completed. 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 26 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: This part of Yuba County is comprised of mountainous and hilly terrain covered with dense to scattered, open areas of vegetation. Hydrologic features that may be impacted by this

project include Dry Creek, which is believed to be a tributary of the Yuba River. All adjacent property is privately owned with scattered residential housing. Wildlife that has been observed in the project area includes northwestern pond turtle, rattlesnake, fence lizard, scrub jay, stellar jay, red-tailed hawk, wild turkey, black tailed deer, mountain lion, American crow, red-winged black bird, starling, American kestrel, turkey vulture, western meadowlark, Swainson's hawk, Brewer's blackbird, raccoons, barn owl and striped skunk.

This project area may support habitat for migratory birds, California red-legged frog (RLF), valley elderberry longhorn beetle, northwestern pond turtle (NWPT), California black rail, Swainson's hawk, western yellow billed cuckoo, bald eagle, vernal pool tadpole shrimp, vernal pool fairy shrimp, Layne's ragwort, Hartweg's golden sunburst and bank swallows. These species are known to occur in the project vicinity and are protected by State and Federal agencies.

Vegetation likely to occur in the project area includes: valley oak, blue oaks, Manzanita, elderberry shrubs, grey pine, tall vervain, juniper trees, Fremont cottonwood, cedar trees, sedge, Himalayan blackberry, oats, mimosa tree, willow, bull rush, pyracanthas, pennyroyal, redwood, honeysuckle, iris, 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 listed species. Protocol field surveys for RLF and NWPT will likely be required by the resource agencies to determine the presence or absence of these species.

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. Consultation with the USFWS and CDFG will be required to fully determine if this project will impact the protected plant or wildlife species 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 \$8,500 (1602), and \$33,000 (401). In addition, it is anticipated that \$3,940,000 may be necessary for mitigation.

Archaeology: Cultural resource reports for previous projects constructed along SR 20 in the project vicinity and the internal Caltrans TEA Database were consulted for this project. Sixty cultural resources were identified within the project limits, nine of which are located within the ESL. They include: mining sites, cemeteries, Park's Bar Bridge, ranch sites and prehistoric sites. Since cultural resources are located within the project's ESL, consultation with the State Historic Preservation Officer (SHPO) will be required to address both State and Federal laws regarding potential impacts to cultural resources. If impacts to the identified cultural resources cannot be avoided, a Phase II evaluative study must be completed. If cultural resources within the ESL that cannot be protected during construction are found to be eligible for the Federal Register of Historic Places or the California Register of Historical Resources as a result of consultation with the SHPO, 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: 3/16/11

Reviewed by:

Ali Kiani
Ali Kiani, Project Manager

Date: 3/16/11

PEAR Environmental Commitments Cost Estimate

Dist.-Co.-Rte.-KP/PM: 03 YUB 20 13.3/R17.8 EA: 03-0A570

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		\$ 8,500
Coastal Development Permit		
State Lands Agreement		
Section 401 RWQCB Permit		\$ 33,000
COE 404 Permit- Nationwide	\$ 2,250,000	
COE 404 Permit- Individual		
COE Section 10 Permit		
COE Section 9 Permit		
Other: FWS Biological Opinion	\$ 20,000	
Oak Compensation		
Special landscaping		
Archaeological		
Biological – Oak Mitigation	\$ 500,000	
Historical		
Wildlife Undercrossing ¹	\$ 765,000	
Wetland/riparian	\$ 405,000	
TOTAL (Enter zeros if no cost)	\$ 3,940,000	\$ 41,500

¹ These funds will be included as part of the project to offset impacts to wildlife migration patterns.

ATTACHMENT B - Resources by WBS Code

EA: 03-0A570

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&ED Init. & Plng.										-
100.10.10 – PA&ED Exec. & Ctrl.	11	11	11			2		60		95
100.10.15 – PA&ED Closeout										-
100.10.20 – PA&ED Project Shelving										-
100.10.25 – PA&ED Project Unshelving										-
100.10.30 – PA&ED Update Admin Record										-
100.10.35 – PA&ED Cooperative Agreement										-
100.10.99 – PA&ED Other Proj. Mgmt. Products										-
100.15.05 – PS&E Init. & Plng.										-
100.15.10 – PS&E Exec. & Ctrl.	10	20	20			4		30		84
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. & Plng.										-
100.20.10 – Const. Exec. & Ctrl.	10	20	20					45		95
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. & Plng.										-
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	-	135	-	274
Preliminary Engineering Studies and Draft Project Report										
160.05.05 – Approved PID Review	3	16								19
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									5
160.30.05 – Maps for ESR	5					1				6
160.30.10 – Surveys & Mapping for ESR	5	2								7
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	18	-	-	-	5	-	-	-	51
Environmental Studies and Draft Environmental Document - Task Management Activities										
165.05.05 – Project Information Review	3	4	40			2				49
165.05.10 – Pub & Agency Scoping Process	8	1				7				16
165.05.15 – Alternatives for Further Study	4	3								7
165.05.99 – Other Env Scoping Alt ID in PID	20									20
165.10.15 – CIA, Land Use & Growth Studies					48					48
165.10.20 – VIA & Scenic Resource Evaluation										-
165.10.25 – Noise Study							16			16
165.10.30 – Air Quality Study							16			16

EA: 03-0A570

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				58						58
165.10.55 – Draft RW Relocation Impact Doc.										-
165.10.60 – Loc. Hyd. & Floodplain Stdy 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		250								250
165.15.10 – Wetlands Study		150								150
165.15.15 – Resource Agcy Permit Related Coord		100				2				102
165.15.20 – NES Report		312								312
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	687									687
165.25.10 – Section 4(f) Evaluation	78									78
165.25.15 – CE/CE Determination	69									69
165.25.20 – Env. Quality Ctrl. & Other Reviews	24	25	25		9			30		113
165.25.25 – Approval to Circulate Resolution	3									3
165.25.30 – Environmental Coordination	522									522
165.25.99 – Other Draft ED Products										-
165.30 – NEPA Delegation	20		5							25
Total Environmental Studies & DED	1,438	1,018	1,371	58	57	18	32	30	-	4,022
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: 03-0A570

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	6		7		6					19
175.10.40 – Record of Public Hearing										-
175.10.99 – Other Public Hearing Products										-
175.15 – Public Comment Res. & Corr.	104	7								111
175.20 – Project Preferred Alternative										-
175.25 – NEPA Delegation			2							2
Total DED & Preferred Proj. Alt. Identification	157	7	9	-	6	-	-	-	-	179
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	341									341
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				8					22
180.10.99 – Other FED Products								15		15
180.15.05 – ROD (NEPA)										-
180.15.10 – NOD (CEQA)										-
180.15.20 – Environmental Commitments Record	11									11
180.15.99 – Other Completed ED Products										-
180.20 – NEPA Delegation	10		9							19
Total PR & FED	396	320	40	-	8	4	-	15	-	783
Base Maps and Plan Sheets during PS&E Development										
185.05.05 – Project Concept Review										-
185.05.10 – Updated Project Information				4						4
185.05.99 – Other Updated Project Info Products										-
185.15 – Perform Preliminary Design										-
Total Base Maps and Plan Sheets during PS&E	-	-	-	4	-	-	-	-	-	4
Right of Way Property Management and Excess Land										
195.40.20 – Property Maint. & Rehab (Rentable)										-
195.40.25 – Prop. Maint. & Rehab (Non-Rentable)										-

EA: 03-0A570

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		60								60
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	860	9	-	-	37	-	-	-	912
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		8								8
230.10.15 – Plant List		8								8
230.30 – Draft Drainage Plans										-
230.35.10 – Highway Planting Specifications										-
230.35.35 – Water Pollution Control Specs										-
230.35.40 – Erosion Control Specifications		8								8
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	24	4	8	-	7	-	-	-	49
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: 03-0A570

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				16						16
235.35 – Long Term Mitigation Monitoring		200		8						208
235.40 – Updated Environmental Commit. (ECR)	6	4								10
235.45 – NEPA Delegation			4							4
Total Env. Impact Mitigation & HW Clean-up	6	504	421	24	-	-	-	-	-	955
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	8				5				21
255.10.10 – Update Highway Planting PS&E										
255.10.25 – Updated Technical Reports		3	7							10
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	11	7	-	-	7	-	-	-	52
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	8					50	256
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		20								20
270.75 – Resource Agency Permit Ren. & Ext.						12				12
270.80 – Long Term Env Mit/Mont during Const										-
Total Const Engineering & Gen. Contract Admin.	-	120	98	8	-	12	-	-	50	288
Construction Contract Change Orders										
285.05.05 – Need for CCO Determination									24	24
285.10.15 – "Other" Functional Support				4		12				16
Total Construction CCOs	-	-	-	4	-	12	-	-	24	40
Construction Contract Claims										
290.35 – Technical Support									10	10
Total Construction Contract Claims	-	-	-	-	-	-	-	-	10	10
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	2,106	2,933	2,029	106	71	108	32	180	92	7,657

ATTACHMENT F
INITIAL SITE ASSESSMENT

Date: February 17, 2011

File: Yuba 20, PM 13.3/R17.8
E-FIS 03 0002 0593- K
03-0A570K

To: TAMMY MASSENGALE
Chief Office of Environmental Support

From: MARIA ALICIA BEYER SALINAS
Office of Environmental Engineering South - Hazardous Waste

Subject: Hazardous Waste Initial Site Assessment (ISA) for Preliminary Environmental Assessment Report (PEAR).

This SHOPP project proposes to upgrade the roadway geometrics to current standards, which will include realigning a portion of the highway, widening the shoulders and rehabilitate the pavement on SR 20 in Yuba County from Marysville Road to the Yuba River - Parks Bar Bridge No.16-0011. The segment between Stacy Ann Drive and Sicard Flat Road will be realigned. New right of way and temporary construction easements will be required.

The project workscope involves:

- Pavement grinding, ground in rumble strips
- Pavement overlay
- Dig outs, crack sealing, saw cutting
- New structural section, driveways, and shoulder backing
- 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 fence
- Temporary railing (type K)
- Structure widening, Dry Creek Bridge (Br. No. 16-0010 at PM 13.9)
- Disposal of excavated material is anticipated.
- Utility relocation

ISA conclusions:

I. Petroleum Hydrocarbons

The hazardous waste investigation was limited to a records review. The potential for petroleum hydrocarbons contamination is not expected within the project study limits.

II. Aerial Deposited Lead (ADL)

Lead-contaminated soil may exist due to the historical use of leaded gasoline, leaded airline fuels, waste incineration, etc. The areas of primary concern in relation to highway facilities are soils along routes that have had high vehicle emissions due to large traffic volumes, congestion, or stop and go situations during the time period when leaded gasoline was in use. For practical purposes, most Aerially Deposited Lead (ADL), due to vehicle emissions, would have been deposited prior to 1986.

The Contractor shall prepare a project specific Lead Compliance Plan to prevent or minimize worker exposure to lead while working on and/or handling soils materials containing lead. Attention is directed to Title 8, California Code of Regulations, Section 1532.1, "Lead," for specific Cal-OSHA requirements when working with lead.

The project will generate excess material in an area where Total lead concentration is unknown, and no excess material is allowed to leave the project limits without being tested for ADL. Without being sampled, tested, and characterized, the top few inches of soil potentially contain lead concentrations above hazardous levels.

As soon as the project gets funded and the EA phase "0" gets opened, then it is the Project Engineer responsibility to request to this unit to proceed and execute a task Order (TO). The TO needs to be executed at least 4 months prior to PS&E. The estimate TO cost is \$18,000.

III. Traffic Stripe -Lead/Chromium Based Paint

The Contractor is required to properly manage removed stripe and pavement marking and shall implement a project specific lead compliance plan prepared by a Certified Industrial Hygienist (CIH) as required by Cal/OSHA.

The actual text containing the requirements for the lead compliance plan is found in the Amendments to the 2006 Standard Specifications in Section 7-1.07. Use BEES Item Code 190110. (Note that just one lead compliance plan that addresses all lead exposures on the project should be prepared, so the quantity should only be one.)

- Use SSP 15-305 for yellow paint or yellow thermoplastic paint that will be removed while grinding the entire pavement surface and the project will not require the paint or thermoplastic paint to be removed before grinding begins.

IV. Treated Wood Waste

Treated wood waste (TWW) can occur as posts along metal beam guard railing (MBGR), three beam barrier, piles, or roadside signs. These wood products are typically treated with preserving chemicals that may be hazardous (carcinogenic) and include but are not limited to arsenic, chromium, copper, creosote, and pentachlorophenol. The Department of Toxic Substances Control (DTSC) requires that TWW either be disposed as a hazardous waste, or if not tested, the generator may presume that TWW is a hazardous waste.

- Use SSP 14-010.

The Contractor shall prepare a detailed Health, Safety and Work Plan for all site personnel in accordance with the DTSC and CAL-OSHA regulations. Treated wood waste must be disposed in an approved treated wood waste facility.

Current regulations allow for disposal of untested treated wood waste (TWW) in either a Class I hazardous waste landfill, or a composite-lined portion of a solid waste landfill unit that meets all requirements applicable to disposal of municipal solid waste and that is regulated by waste discharge requirements issued for discharges of designated waste or TWW.

V. NESHAP Notification.

Based on the Bridge Inspection Records Information System (BIRIS) bridge No. 16-0010 was built in 1938 and is a concrete built structure.

Without sampling and testing, Asbestos Containing Materials (ACM), as defined in Section 1529, "Asbestos," of the Construction Safety Orders, Title 8, of the California Code of Regulations are suspected to be present in the expansion joints and concrete materials of the structure.

In compliance with Standard Specifications Section 14-9.02, the Contractor must notify the following agencies as required by the National Emission Standards for Hazardous Air Pollutants (NESHAP) at 40 CFR Part 61, Subpart M, and California Health and Safety Code section 39658(b)(1). A copy of the notification form and attachments must be provided to the Engineer prior to submittal. Notification must take place a minimum of 10 working days prior to starting demolition or renovation activities as defined in the NESHAP regulations. Notification forms and other information are available from the California Air Resources Board web site at: <http://www.arb.ca.gov/enf/asbestos/asbestos.htm>.

The Feather River Unified Air Quality management District (AQMD) is a Non-Delegated District. (The "Non-delegated" areas are areas where U.S. EPA has not delegated enforcement of the asbestos NESHAP rules to the local air district.)

Use non-standard Special Provisions (N-SSP):

- Air Quality -NESHAP Notification
- Removal of asbestos containing materials – bridges and non-building structures

VI. Estimate cost and bid items that need to be included in the BEES:

- \$3,500 for the Health and Safety Plan covering: Lead Compliance for ADL, Yellow traffic stripe removal, removal/disposal of TWW and ACM.
- The cost for "MBGR removal" must include a full compensation for removing, handling, storing, transporting, and disposing TWW, including personnel training in the contract price paid per linear foot of TWW removal.

The landfill disposal cost of TWW is estimated at \$800.

This extra disposal cost is in addition to the standard "remove MBGR" cost.

1000 linear feet of MBGR approximately generates 12,903 lbs (6.5 Tons) of TWW (\$50 disposing fee/Ton x 6.5 tons) + \$200 generator ID fee = \$ 525.

- \$4,000 for "ACM survey" must include a full compensation for sampling, handling, storing, transporting, and disposing.

If there are modifications to the project limits or work scope a supplemental ISA will be required to cover those changes. If you have questions or comments, please call at me at (530) 741-4580.

cc: Ali Kiani – Project Manager
Molly Richard – Project Engineer

ATTACHMENT G
RIGHT OF WAY DATA SHEET

Memorandum

*Flex your power!
Be energy efficient!*

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

Date: March 22, 2011
E.A.: 0A570K
PN: 0300020593
File: 03-YUB-20 PM 13.3/17.8

Attention Molly Richards
Project Engineer

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

Subject: Current Estimated Right of Way Costs

We have completed a revised estimate of the right of way costs for the above referenced project based on information received from you on February 10, 2011 .

This estimate has been revised to include estimated mitigation that was not available at the time this accelerated estimate was due.

Right of Way requests a minimum of 15 months after the delivery of the final appraisal map in order to obtain the certification in a timely manner.

Attachments:

Right of Way Data Sheet
Resource Hrs. Request

cc. Ali Kiani

Revised for Mitigation



Date: March 22, 2011
E.A.: 0A570K
PN: 0300020593
File: 03-YUB-20 PM 13.3/17.8

1. Right of Way Cost Estimate:

	Current Value Future Use	Escalation Rate	Escalated Value
A. Total Acquisition Cost	\$31,125	5%	\$36,229
B. Mitigation acquisition & credits	\$3,155,000	5%	\$3,672,378
C. Project Development Permit Fees	\$41,500	5%	\$48,305
Subtotal	\$3,227,625		\$3,756,913
D. Utility Relocation (State Share) (Owner's share: \$180,000)	\$32,000	5%	\$37,248
E. Relocation Assistance (RAP)	\$0		\$0
F. Clearance/Demolition	\$0		\$0
G. Title & Escrow	\$2,500	5%	\$2,910
H. Total Estimated Right of Way Cost	\$3,262,125	Rounded	\$3,797,000
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	None
A	2	- 2	C&M Agrmt
B	5	- 3	Svc Contract
C	0	- 4	Easements
D	0	U5 - 7	Rights of Entry
	0	- 8	Clauses
Total	7	- 9	
Areas:		Misc. R/W Work	
R/W:	2.75 Ac.	RAP Displ	N/A
TCE:	2.23 Ac.	Clear/Demo	N/A
Mitigation:	N/A	Const Permits	N/A
		Condemnation	1
		USA Involvement	No
		No. Excess Pcls:	0

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.)

It is anticipated that this project will require several temporary construction easements, utility easements and some fee acquisitions. This project plans to correct a few curves. Although specific parcels have not been identified, it appears the land needed is vacant graze or forest land. Estimates for mitigation of impacts to oak, riparian, and water ways were provided by the Environmental division and included within this report.

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? Yes _____ Not Significant _____
No X

8. Are utility facilities or rights of way affected? Yes X No _____

According to the P.E. there are 9 joint use poles (PG&E, AT&T) to be relocated. There are several locations where potholing monies have been requested.

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 15 months after the delivery of the final appraisal map in order to obtain the certification in a timely manner.

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

16. Is it anticipated that Caltrans will perform all Right of Way work?
Yes X No

17. Assumptions and Limiting Conditions:

17.1 The mapping did not provide sufficient detail to determine the limits of the right of way required.

17.2 The transportation facilities have not been sufficiently designed so our estimator could determine the damages to any of the remainder parcels affected by the project.

17.3 Additional right of way requirements are anticipated, but are not defined due to the preliminary nature of the early design requirements.

17.4 This project is on the accelerated PID list.

Evaluation Prepared By:

Right of Way: Kelly J Kilpatrick
Kelly J Kilpatrick

Date 3/22/11

Reviewed By:

RW Planning & Management: Rich Covey
Rich Covey

Date 3/28/11

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

RECOMMENDED FOR APPROVAL

Janel D. Wilson
JANEL D. WILSON,
Senior Right of Way Agent
Project Coordination
Marysville

3-22-11
Date

APPROVED:

John Ballantyne
JOHN BALLANTYNE,
Assistant Division Chief,
North Region Right of Way
Marysville

3/24/11
Date

ATTACHMENT H
COST ESTIMATE BREAKDOWN

PRELIMINARY COST ESTIMATE SUMMARY

03-Yub-20-PM 13.3/R17.8
03-0A570k-0300020593

PROJECT DESCRIPTION:

In Yuba County 12 miles east of Marysville from Marysville Road to Yuba River Bridge 16-11.
Rehabilitate Pavement

SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$ 17,700,000
TOTAL STRUCTURE ITEMS	\$ 3,200,000
SUBTOTAL CONSTRUCTION COSTS	\$ 20,900,000
TOTAL RIGHT OF WAY ITEMS	\$ 3,800,000
TOTAL PROJECT CAPITAL OUTLAY COSTS	\$ 24,700,000

Reviewed by District
Program Manager

Signature

Date

Approved by
Project Manager

Signature

Date

I. ROADWAY ITEMS

Section 1: Earthwork

	<i>Quantity</i>	<i>Unit</i>	<i>Unit Price</i>	<i>Item Cost</i>	<i>Section Cost</i>
Retaining Wall					
Roadway Excavation	74,000	CY	\$ 25	\$ 1,850,000	
Imported Borrow			\$ -	\$ -	
Clearing & Grubbing	1	LS	\$ 20,000	\$ 20,000	
Develop Water Supply	1	LS	\$ 10,000	\$ 10,000	

Subtotal Earthwork \$ 1,880,000

Section 2: Pavement Structural Section

Coldplane AC Pavement	70,000	SQ YD	\$ 3	\$ 210,000
Hot Mix Asphalt (Type A)	15,000	TON	\$ 70	\$ 1,050,000
Rubberized Hot Mix Asphalt (Type G)	20,000	TON	\$ 70	\$ 1,400,000
Rubberized Hot Mix Asphalt (Type O)	10,000	TON	\$ 70	\$ 700,000
Aggregate Base	38,000	CY	\$ 30	\$ 1,140,000
HMA Dike Type E	5,000	LF	\$ 3	\$ 15,000
Overside Drain	1	LS	\$ 2,000	\$ 2,000

Subtotal Pavement Structural Sections \$ 4,517,000

Section 3: Drainage

Large Drainage Facilities			\$ -	\$ -
Storm Drains			\$ -	\$ -
Pumping Plants			\$ -	\$ -
Extend Reinforced Box Culvert	1	LS	\$ 80,000	\$ 80,000
Replace Culverts	26	EA	\$ 8,000	\$ 208,000
Rock Slope Protection	1	LS	\$ 70,000	\$ 70,000

Subtotal Drainage \$ 358,000

Section 4: Specialty Items

Prepare SWPPP
 Concrete Barrier
 Metal Beam Guard Railing
 Facilities - Temp Fence & Gate
 Fence (Remove and Replace)
 Landscape
 Construction Site BMPs
 Asbestos Containing Materials Survey
 Health and Safety Plan
 Wildlife Crossing Mitigation
 FWS: Biological Opinion
 Resident Engineer Office Space

<i>Quantity</i>	<i>Unit</i>	<i>Unit Price</i>	<i>Item Cost</i>	<i>Section Cost</i>
1	LS	\$ 10,000	\$ 10,000	
		\$ -	\$ -	
800	LF	\$ 30	\$ 24,000	
10,000	LF	\$ 6	\$ 60,000	
10,000	LF	\$ 10	\$ 100,000	
1	LS	\$ 350,000	\$ 350,000	
1	LS	\$ 450,000	\$ 450,000	
1	LS	\$ 4,000	\$ 4,000	
1	LS	\$ 4,000	\$ 4,000	
1	LS	\$ 765,000	\$ 765,000	
1	LS	\$ 20,000	\$ 20,000	
1	LS	\$ 40,000	\$ 40,000	

Subtotal Specialty Items \$ 1,827,000

Section 5: Traffic Items

Traffic Delineation Items
 Temporary Traffic Delineation
 Traffic Electrical
 Roadside Signs (Const Area)
 Overhead Sign
 COZEEP
 Traffic Control
 Temporary Railing, Type K

1	LS	\$ 75,000	\$ 75,000
1	LS	\$ 50,000	\$ 50,000
1	LS	\$ 150,000	\$ 150,000
1	LS	\$ 10,000	\$ 10,000
		\$ -	\$ -
70	Days	\$ 1,000	\$ 70,000
170	Days	\$ 2,500	\$ 425,000
10,000	LF	\$ 15	\$ 150,000

Subtotal Traffic Items \$ 930,000

SUBTOTAL SECTIONS 1 THROUGH 5 \$ 9,512,000

Section 6: Minor

Section Cost

\$ 9,512,000	X	0.20	=	\$ 1,903,000
(Subtotal Sections 1-5)				

Total Minor Items \$ 1,903,000

Section 7: Roadway Mobilization

\$ 11,415,000	X	0.10	=	\$ 1,142,000
(Subtotal Sections 1-6)				

Total Roadway Mobilization \$ 1,142,000

Section 8: Roadway Additions

Supplemental Work

\$ 11,415,000	X	0.10	X	\$ 1,142,000
(Subtotal Sections 1-6)				

Contingencies

\$ 11,415,000	X	0.35	X	\$ 3,996,000
(Subtotal Sections 1-6)				

Total Roadway Additions \$ 5,138,000

TOTAL ROADWAY ITEMS \$ 17,700,000
(Subtotal Sections 1-8)

Estimate Prepared By: Molly Richard
(Print Name)

Date: 3/15/2011
Phone: (530) 741-5746

Estimate Checked By: _____
(Print Name)

Date: _____
Phone: _____

II. Structures Items

Section Cost

Widen Dry Creek Bridge
Bridge Number 16-10

\$ 3,200,000
(incl. 10% mobilization and 40% contingency)

Subtotal Structures Items **\$ 3,200,000**

III. Railroad Related Costs

	<i>Quantity</i>	<i>Unit</i>	<i>Unit Price</i>	<i>Item Cost</i>	<i>Section Cost</i>
<u>Not Applicable</u>			\$ -	\$ -	
_____			\$ -	\$ -	
_____			\$ -	\$ -	
_____			\$ -	\$ -	

Subtotal Railroad Costs **\$ -**

TOTAL STRUCTURES AND RAILROAD ITEMS **\$ 3,200,000**

Subtotal Railroad Costs **\$ -**

TOTAL STRUCTURES AND RAILROAD ITEMS **\$ 3,200,000**

Estimate Prepared By: _____
(Print Name)

Date: _____
Phone: _____

IV. Right of Way Escalated Value

Item Cost

Total Acquisition Cost	\$ 36,229
Mitigation Acquisition and Credits	\$ 3,672,378
Project Development Permit Fees	\$ 48,305
Utility Relocation (State share)	\$ 37,248
Relocation Assistance	\$ -
Clearance/Demolition	\$ -
Title and Escrow Fees	\$ 2,910

TOTAL RIGHT OF WAY ITEMS \$ 3,800,000

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: March 23, 2011
 Phone: (530) 740-4915

Escalated Values

	10/11	11/12	12/13	13/14
Roadway	\$ 17,700,000	\$ 18,320,000	\$ 18,960,000	\$ 19,620,000
Structures	\$ 3,200,000	\$ 3,310,000	\$ 3,430,000	\$ 3,550,000
Right of Way				\$ 3,800,000

Total Capital Costs in 13/14 FY \$ 26,970,000

*Escalation rate is 3.5%.

ATTACHMENT I
PROGRAMMING SHEET

PROGRAMMING SHEET - 2010/2011

EA: 03-0a570
 Proj Name: No Nick

Project Manager: Ali Kiani
 Co-Rte-PM: YUB-020- 013.3/R017.8

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	03/24/11	\$ 17660
BRIDGE	03/18/11	\$ 3200
Subtotal Const		\$ 20860
RIGHT OF WAY	03/28/11	\$ 3797
MITIGATION		\$ 0
Subtotal RW		\$ 3797
GRAND TOTAL		\$ 24657

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					3797			\$ 3,797	
Construction					23127			\$ 23,128	
CAPITAL COSTS TOTAL								\$ 26,925	
SUPPORT COSTS (Escalation Factor)			(1.5%)	(1.5%)	(1.5%)	(1.5%)	(1.5%)		Sup/Cap
PAED		407	194	134				\$ 736	2.73%
PS&E				510	843	201	20	\$ 1,575	5.85%
Right of Way				74	129	20	67	\$ 290	1.08%
Construction						421	1195	\$ 1,616	6.00%
SUPPORT COSTS TOTAL								\$ 4,216	15.66%
TOTAL PROJECT COSTS								\$ 31,141	

PROJECT SUPPORT IN PYS

	Prior Yrs	10/11	11/12	12/13	13/14	14/15	Future	Total	PY %
Environmental	0.00	0.73	0.29	0.82	1.10	0.14	0.30	3.38	11.33%
Design	0.00	0.28	0.09	0.42	0.36	0.12	0.27	1.54	5.16%
Engineering Services	0.00	0.48	0.16	1.06	1.12	0.35	0.88	4.05	13.58%
Surveys	0.00	0.67	0.27	0.89	0.60	0.30	0.76	3.49	11.70%
Right of Way	0.00	0.02	0.02	0.32	0.75	0.09	0.25	1.45	4.86%
Traffic	0.00	0.22	0.10	0.58	0.43	0.41	0.67	2.41	8.08%
Construction	0.00	0.00	0.03	0.29	0.44	1.87	4.75	7.38	24.74%
Project Management	0.00	0.14	0.24	0.23	0.52	0.17	0.42	1.72	5.77%
District Units*	0.00	0.56	0.22	0.58	0.87	0.13	0.26	2.62	8.78%
Subtotal Dist/Region Resources	0.00	3.10	1.42	5.19	6.19	3.58	8.56	28.04	94.00%
59-DES Project Development	0.00	0.04	0.02	0.04	0.06	0.15	0.10	0.41	1.37%
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	0.01	0.88	0.49	0.00	1.38	4.63%
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	0.04	0.02	0.05	0.94	0.64	0.10	1.79	6.00%
TOTAL PYS	0.00	3.14	1.44	5.24	7.13	4.22	8.66	29.83	

*Admin, Plng, Maintenance

**DES Admin, DES Plng, DES Maintenance

HRS/PYS = 1758

Comments: