CTC-0001 (NEW 07/2018)

ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017 PROJECT BASELINE AGREEMENT

State Route 46 Expressway Conversion - Antelope Grade Segment

	Resolution TCEP-P-2021-07B
	(will be completed by CTC)
1.	FUNDING PROGRAM
	Active Transportation Program
	Local Partnership Program (Competitive)
	Solutions for Congested Corridors Program
	State Highway Operation and Protection Program
2.	PARTIES AND DATE
2.1	This Project Baseline Agreement (Agreement) for the State Route 46 Expressway Conversion - Antelope Grade Segment, effective on, June 23, 2021 (will be completed by CTC), is made by and between the California Transportation Commission (Commission), the California Department of Transportation (Caltrans), the Project Applicant, Caltrans , and the Implementing Agency, Caltrans , sometimes collectively referred to as the "Parties".
3.	RECITAL
3.2	Whereas at its December 2, 2020 meeting the Commission approved the Trade Corridor Enhancement Program, and included in this program of projects the <i>State Route 46 Expressway Conversion - Antelope Grade Segment</i> , the parties are entering into this Project Baseline Agreement to document the project cost, schedule, scope and benefits, as detailed on the Project Programming Request Form attached hereto as Exhibit A and the Project Report attached hereto as Exhibit B, as the baseline for project monitoring by the Commission.
3.3	The undersigned Project Applicant certifies that the funding sources cited are committed and expected to be available; the estimated costs represent full project funding; and the scope and description of benefits is the best estimate possible.
4.	GENERAL PROVISIONS
	The Project Applicant, Implementing Agency, and Caltrans agree to abide by the following provisions:
4.1	To meet the requirements of the Road Repair and Accountability Act of 2017 (Senate Bill [SB] 1, Chapter 5, Statutes of 2017) which provides the first significant, stable, and on-going increase in state transportation funding in more than two decades.
4.2	To adhere, as applicable, to the provisions of the Commission:
	Resolution Insert Number, "Adoption of Program of Projects for the Active Transportation Program", dated
	Resolution <i>Insert Number</i> , "Adoption of Program of Projects for the Local Partnership Program", dated
	Resolution Insert Number, "Adoption of Program of Projects for the Solutions for Congested Corridors Program", dated
	Resolution Insert Number, "Adoption of Program of Projects for the State Highway Operation and Protection Program", dated
	Resolution TCEP G-20-77, "Adoption of Program of Projects for the Trade Corridor Enhancement Program", dated December 2, 2020

Project Baseline Agreement Page 1 of 3

- 4.3 All signatories agree to adhere to the Commission's Trade Corridor Enhancement Program, Guidelines. Any conflict between the programs will be resolved at the discretion of the Commission.
- 4.4 All signatories agree to adhere to the Commission's SB 1 Accountability and Transparency Guidelines and policies, and program and project amendment processes.
- 4.5 Caltrans agrees to secure funds for any additional costs of the project.
- 4.6 Caltrans agrees to report on a quarterly basis; after July 2019, reports will be on a semi-annual basis on the progress made toward the implementation of the project, including scope, cost, schedule, outcomes, and anticipated benefits.
- 4.7 Caltrans agrees to prepare program progress reports on a quarterly basis; after July 2019, reports will be on a semi-annual basis and include information appropriate to assess the current state of the overall program and the current status of each project identified in the program report.
- 4.8 Caltrans agrees to submit a timely Completion Report and Final Delivery Report as specified in the Commission's SB 1 Accountability and Transparency Guidelines.
- 4.9 All signatories agree to maintain and make available to the Commission and/or its designated representative, all work related documents, including without limitation engineering, financial and other data, and methodologies and assumptions used in the determination of project benefits during the course of the project, and retain those records for four years from the date of the final closeout of the project. Financial records will be maintained in accordance with Generally Accepted Accounting Principles.
- 4.10 The Transportation Inspector General of the Independent Office of Audits and Investigations has the right to audit the project records, including technical and financial data, of the Department of Transportation, the Project Applicant, the Implementing Agency, and any consultant or sub-consultants at any time during the course of the project and for four years from the date of the final closeout of the project, therefore all project records shall be maintained and made available at the time of request. Audits will be conducted in accordance with Generally Accepted Government Auditing Standards.

5. SPECIFIC PROVISIONS AND CONDITIONS

5.1 <u>Project Schedule and Cost</u> See Project Programming Request Form, attached as <u>Exhibit A</u>.

5.2 Project Scope

See Project Report or equivalent, attached as <u>Exhibit B</u>. At a minimum, the attachment shall include the cover page, evidence of approval, executive summary, and a link to or electronic copy of the full document.

5.3 Other Project Specific Provisions and Conditions

In the event of a cost overrun the state will cover a share proportionate to the state contribution of the TCEP funding identified in the Project Programming Request (PPR) attached to this baseline agreement. (For example, if the state/regional TCEP funding share was a 40/60 ratio, the state may fund no more than 40% of the cost overrun.)

Attachments:

Exhibit A: Project Programming Request Form

Exhibit B: Project Report

Project Baseline Agreement Page 2 of 3

SIGNATURE PAGE TO PROJECT BASELINE AGREEMENT

State Route 46 Expressway Conversion - Antelope Grade Segment

Resolution TCEP-P-2021-07B

Just While	05/13/2021
Timothy M. Gubbins	Date
District Director, California Department of Transportation, District 5	
Project Applicant and Implementing Agency	
El-flahi	6/17/21
Toks Omishakin	Date
Director, California Department of Transportation	
Wilch W-	07/16/21
Mitchell Weiss	
	Date
Executive Director, California Transportation Commission	

Convert existing 2-lane conventional highway to 4-lane divided expressway.

PRG-0010 (REV 08/2020)

PPR ID ePPR-D05-2020-0007 v1

Amendment (Existin	Amendment (Existing Project) YES NO Date 06/08/2021 08:53:21										
Programs L	Programs ☐ LPP-C ☐ LPP-F ☐ SCCP ☑ TCEP ☐ STIP ☐ Other										
District EA Project ID PPNO Nominating Agency											
05	3307E	0518000075	0226L	Caltrans	District 5						
County	Route	PM Back	PM Ahead	Co-Nomina	ting Agency						
San Luis Obispo	46	57.300	60.800								
VAR	46			MPO	Element						
				SLOCOG	Capital Outlay						
Pr	roject Manager/Cont	act	Phone	Email /	Address						
	David Rasmussen		805-835-6328	david.rasmuss	en@dot.ca.gov						
Project Title											
SR 46 Expressway 0	Conversion - Antelop	e Grade Segment									
Location (Project Limits), Description (Scope of Work)											
, ,	, , , , , , , , , , , , , , , , , , , ,		from east of State Ro	ute 46/41 Intersection east to	Kern County Line.						

Component		Implementing Agency	
PA&ED	Caltrans District 5		
PS&E	Caltrans District 5		
Right of Way	Caltrans District 5		
Construction	Caltrans District 5		

Conocidation	Califalio Biotilot o							
Legislative Districts								
Assembly:	33	Senate:	15	Congressional:	24			
Project Milestone				Existing	Proposed			
Project Study Report Ap	proved			06/16/2000				
Begin Environmental (P	A&ED) Phase				07/02/2003			
Circulate Draft Environr	nental Document	Document Type	(ND/MND)/FONSI		01/30/2005			
Draft Project Report					01/30/2005			
End Environmental Pha	se (PA&ED Milestone	e)			06/29/2005			
Begin Design (PS&E) P	hase				08/01/2018			
End Design Phase (Rea	ady to List for Advertis	sement Milestone)			06/07/2023			
Begin Right of Way Pha	ise				06/01/2022			
End Right of Way Phase	e (Right of Way Certif	ication Milestone)			06/05/2023			
Begin Construction Pha	se (Contract Award N	filestone)			01/12/2024			
End Construction Phase	e (Construction Contra		12/18/2026					
Begin Closeout Phase	Begin Closeout Phase 12/18/2026							
End Closeout Phase (C	loseout Report)		12/13/2028					

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

PROJECT PROGRAMMING REQUEST (PPR)

PRG-0010 (REV 08/2020)

PPR ID ePPR-D05-2020-0007 v1

Date 06/08/2021 08:53:21

Purpose and Need

Purpose: To reduce congestion, enhance safety, reduce driver frustration, provide safe-passing opportunities, facilitate efficient goods movement and enhance mobility for major east/west travel from the Central Coast and US 101 to the San Joaquin Valley and Interstate 5.

Need: This portion of SR 46 traverses rolling to mountainous terrain and includes sustained grades up to 6%. Heavy trucks and recreational vehicles comprise 20 percent of the traffic volume within the project limits. The limited opportunities in this segment to safely pass slower moving trucks or recreational vehicles contribute to driver frustration.

Based on current traffic volumes, the current facility within the project limits exceeds capacity. The projected volumes of traffic, most notably the number of trucks and recreational vehicles traveling the route, are higher than optimum levels recommended for a two-lane conventional highway. In addition, this roadway experiences even greater congestion on weekends when travel demand is the greatest. By providing additional lanes, the proposed project would reduce traffic congestion by improving the capacity of this heavily traveled east-west corridor.

The added lane in each direction would help to eliminate the traffic conflicts associated with vehicular movements on the existing two-lane conventional highway. Generally, four-lane facilities have fewer accidents per mile than two-lane conventional highways.

Lastly, the purpose of this four-lane expressway is to provide route continuity. Four project segments to the west of this project are completed with two more in design. All of these projects will improve SR 46 to a four-lane expressway and provide route continuity from US 101 to Interstate 5.

NHS Improvements X YES NO		Roadway Class 1		Reversible Lar	ne Analysis 🔀 YES 🗌 NO
Inc. Sustainable Communities Strategy Goals				s Emissions 🔀	YES NO
Project Outputs					
Category		Outp	outs	Unit	Total
Pavement (lane-miles)	Roadwa	ay lane miles		Miles	7.8

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

PROJECT PROGRAMMING REQUEST (PPR)

PRG-0010 (REV 08/2020)

PPR ID ePPR-D05-2020-0007 v1

Date 06/08/2021 08:53:21

Additional Information

The project achieved PA&ED under the parent project and identified the preferred alternative as the "Build Alternative". As preliminary designs progressed, a new alignment was determined to be a better alignment than the one that was studied under the parent project's environmental document. This required a supplemental document to be prepared along with the supplemental project report. Both of those will be available for review by the CTC when we submit our Future Consideration of Funds at the time of our TCEP funds allocation for R/W.

A Supplemental Environmental Document is in process and is anticipated in March 2022.

PRG-0010 (REV 08/2020)

PPR ID ePPR-D05-2020-0007 v1

Performance Indicators and Measures										
Measure	Required For	Indicator/Measure	Unit	Build	Future No Build	Change				
Congestion Reduction			Hours	523	1,360	-837				
	TCEP	Daily Truck Trips	# of Trips	2,556	2,556	0				
	TCEP	Daily Truck Miles Traveled	Miles	9,968	9,968	0				
Throughput	TCEP	Change in Truck Volume That Can Be Accommodated	# of Trucks	761,025	585,460	175,565				
	TCEP	Change in Rail Volume That Can Be Accommodated	# of Trailers # of Containers	0	0	0				
		Change in Cargo Volume That Can Be	# of Tons	0	0	0				
	TCEP	Accommodated	# of Containers	0	0	0				
System Reliability	TCEP	Truck Travel Time Reliability Index	Index	1.11	1.28	-0.17				
	TCEP	Daily Vehicle Hours of Travel Time Reduction	Hours	523	1,360	-837				
Velocity	TCEP	Travel Time or Total Cargo Transport Time	Hours	3.6	9.3	-5.7				
Air Quality &	LPPF, LPPC,	Particulate Matter	PM 2.5 Tons	14.6	14.6	0				
GHG	SCCP, TCEP	Particulate Matter	PM 10 Tons	58.4	58.4	0				
	LPPF, LPPC, SCCP, TCEP	Carbon Dioxide (CO2)	Tons	119,377	141,540	-22,163				
	LPPF, LPPC, SCCP, TCEP	Volatile Organic Compounds (VOC)	Tons	0	1	-1				
	LPPF, LPPC, SCCP, TCEP	Sulphur Dioxides (SOx)	Tons	0	0	0				
	LPPF, LPPC, SCCP, TCEP	Carbon Monoxide (CO)	Tons	124	212	-88				
	LPPF, LPPC, SCCP, TCEP	Nitrogen Oxides (NOx)	Tons	58	168	-110				
Safety	LPPF, LPPC, SCCP, TCEP	Number of Non-Motorized Fatalities and Non-Motorized Serious Injuries	Number	0	0	0				
	LPPF, LPPC, SCCP, TCEP	Number of Fatalities	Number	0.73	1	-0.27				
	LPPF, LPPC, SCCP, TCEP	Fatalities per 100 Million VMT	Number	1.28	1.75	-0.47				
	LPPF, LPPC, SCCP, TCEP	Number of Serious Injuries	Number	2.21	3	-0.79				
	LPPF, LPPC, SCCP, TCEP	Number of Serious Injuries per 100 Million VMT	Number	3.78	5.14	-1.36				
Economic Development	LPPF, LPPC, SCCP, TCEP	Jobs Created (Direct and Indirect)	Number	1,114	0	1,114				
Cost Effectiveness	LPPF, LPPC, SCCP, TCEP	Cost Benefit Ratio	Ratio	0.4	0	0.4				

PRG-0010 (REV 08/2020)

R/W SUP (CT)

R/W

CON TOTAL PPR ID ePPR-D05-2020-0007 v1

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1				
				1
1	D : 1.T''			
	Project Title			

SR 46 Expressway Conversion - Antelope Grade Segment

									I
			sting Total P						
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Implementing Agency
E&P (PA&ED)									Caltrans District 5
PS&E									Caltrans District 5
R/W SUP (CT)									Caltrans District 5
CON SUP (CT)	-								Caltrans District 5
R/W									Caltrans District 5
CON	-								Caltrans District 5
TOTAL	-								
	-	Prop	osed Total I	Project Cos	st (\$1,000s)				Notes
E&P (PA&ED)									
PS&E			10,300					10,300	
R/W SUP (CT)]	1,400					1,400	
CON SUP (CT)		_			11,900			11,900	
R/W			7,600					7,600	
CON	-	'			70,100			70,100	
TOTAL		-	19,300		82,000			101,300	
Fund #1:	Other Fed	- Highway	Infrastructu	re Progran	n (HIP) (Cor	nmitted)			Program Code
			Existing Fu			, , , , , , , , , , , , , , , , , , ,			-
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									San Luis Obispo Council of Governr
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									
			Proposed F	unding (\$1	,000s)				Notes
E&P (PA&ED)									
PS&E									

1,270

1,270

1,270

1,270

PRG-0010 (REV 08/2020)

PPR ID ePPR-D05-2020-0007 v1

PRG-0010 (REV 08	8/2020)								
Fund #2:	Future Ne	ed - Future	Funds (Und	committed)					Program Code
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									Caltrans District 5
PS&E	_								
R/W SUP (CT)									
CON SUP (CT)									
R/W	_								
CON									
TOTAL									
	_		Proposed F	unding (\$1	,000s)				Notes
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
					11,900				
CON					70,100				
TOTAL	_								
Fund #3:	IIP - Natio	nal Hwy Sy	/stem (Com	mitted)					Program Code
			Existing Fu	ınding (\$1,	000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									Caltrans District 5
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W	_								
CON									
TOTAL									
			Proposed F	unding (\$1	,000s)				Notes
E&P (PA&ED)									
PS&E			10,300					10,300	
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL			10,300					10,300	

PRG-0010 (REV 08/2020)

PPR ID ePPR-D05-2020-0007 v1

PRG-0010 (REV 0	8/2020)								
Fund #4:	RSTP - S	TP Local (0	Committed)						Program Code
	•		Existing Fu	ınding (\$1	,000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									San Luis Obispo Council of Governm
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W	_								
CON	_								
TOTAL	_								
			Proposed F	unding (\$	1,000s)				Notes
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
			430						
CON									
TOTAL									
Fund #5:	State SB1	TCEP - Tr	ade Corrido	rs Enhanc	ement Acc	ount (Comr	nitted)		Program Code
			Existing Fu			,	,		
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									Caltrans HQ
PS&E	_								
R/W SUP (CT)	-								
CON SUP (CT)	-								
R/W	_								
CON	-								
TOTAL									
			Proposed F	unding (\$1	1,000s)				Notes
E&P (PA&ED)			·						Includes \$7.3 million from the State
PS&E									share of the program.
R/W SUP (CT)			1,400					1,400	
CON SUP (CT)			,						
R/W			5,900					5,900	
CON			-,					,,,,,,	
TOTAL			7,300					7,300	

Memorandum

Making Conservation a California Way of Life

Project: State Route 46 Expressway Conversion -Antelope Grade Segment 05-3307E, 0518000075 SLO-46 PM 55.1-60.9 **Date:** May 13, 2021

Subject: Environmental Executive Summary

Original Project Report

The original Project Report was for 05-0C650 and the Initial Study/Updated Environmental Assessment (2005 IS/EA) was combined with two other project's in District 6 (06-35341 and 06-44250) as the San Luis Obispo and Kern Counties State Route 46 4-Lane Widening Project which was approved in 2005. The preferred alternative was Alternative 3 to widen State Route 46 to four lanes. The State Route 46 Expressway Conversion - Antelope Grade Segment project 05-3307E was later split from this project.

The purpose of this four-lane expressway is to provide route continuity. Four project segments to the west of this project are completed with two more in design. All of these projects will improve SR 46 to a four-lane expressway and provide route continuity from US 101 to Interstate 5. The *Widening Project* is needed due to current and predicted future traffic capacity problems as well as a higher than average collision rate.

Purpose

The purpose of the Widening Project remains the same as what is described in the Initial Study/Updated Environmental Assessment (2005 IS/EA) - to reduce congestion, improve level of service, improve safety, and provide route continuity. The Widening Project serves to provide a continuous east-west four-lane expressway corridor through San Luis Obispo County. Route 46 serves as a major corridor for heavy trucks and recreational traffic traveling from the San Joaquin Valley and Interstate 5 to the Central Coast and Route 101. The route supports the annual movement of \$7 billion of goods shipments between the two regions, accounting for an estimated 575,000 jobs, as well as \$5 billion in tourism within the Central Coast region (2019 SLOCOG RTP).

The proposed project would provide route continuity by improving Route 46 to the same standards completed by the other adjoining sections at the Wye, Cholame, Whitley, and Estrella segments in San Luis Obispo County and the Kecks Corner and Lost Hills segments in Kern County. These projects, proposed in

[&]quot;Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

Page 2

previous environmental documents, along with this proposed project would provide a continuous four-lane expressway from U.S. Highway 101 in San Luis Obispo County to Interstate 5 in Kern County and a new interchange at the existing State Route 46/41 at-grade intersection.

Route 46 Antelope Project

The State Route 46 Expressway Conversion - Antelope Grade Segment project 05-3307E will connect the proposed four-lane expressway and updated interchange at State Route 46 (known as the Route 46/41 Wye project 05-3307C,) with the expanded four-lane expressway already constructed as part of the State Route 46 4-Lane Widening Project (Widening Project) from the Kern County boundary to Interstate 5. The proposed project is to widen a 3.9-mile section of State Route 46 at Antelope Grade from a two-lane highway to a four-lane expressway. The project spans from postmile 55.1 in San Luis Obispo County to postmile 0.4 in Kern County. A 62-foot wide median will separate the proposed four-lane highway.

Project Status/Design

A Supplemental Draft Initial Study/Updated Environmental Assessment (Supplemental IS/EA) is currently being prepared and the draft is expected to be publicly circulated in December 2021. The Supplemental IS/EA evaluates the impacts of the newly proposed Build Alternative as well as analyzes changes in the environmental setting, best management practices, minimization and mitigation measures, and changes in laws, regulations, and guidance since finalization of the 2005 IS/EA. The Supplemental IS/EA document is intended to be a supplement to the 2005 IS/EA and subject areas that have not changed will not be discussed further. At this time, the final document is anticipated to be completed and signed by March 1, 2022.

A complete evaluation of the original design layout identified numerous non-standard features that would be inconsistent with a 4-lane expressway conversion. These non-standard features included horizontal and vertical curves and a 6% profile grade. Therefore, Design further investigated alternatives that would meet current expressway standards. This has led to a new alignment alternative routed through a canyon to the north of the previous alignment. The project development team walked the entire footprint of the proposed alignment to determine if any fatal flaws existed. No fatal flaws were identified, and the proposal was advanced for further study. Additional advantages to this alignment include the reduction of impacts to existing underground utilities and avoidance of a known archaeological site. Technical studies are currently underway and expected to be completed by Summer 2021. A draft Project Report will be completed concurrently with the supplemental Environmental Document. When the final Environmental Document is complete, a final Project Report will also be completed.

Supplemental PR 05-3307E, 0518000075 SLO-46 PM 55.1/60.9 Page 3

Link to 2005 IS/EA

https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:de667336-c552-438f-b9af-486a89f79615

Link to 2005 Project Report

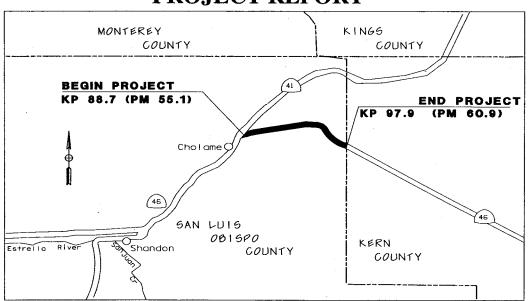
https://documentcloud.adobe.com/link/track?uri=urn:aaid:scds:US:54ade4dd-7385-4f4a-9cec-16255166702d

[&]quot;Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"



05-SLO-46 KP 88.7/97.9 (PM 55.1/60.9) 06258-0C6500 HE13 (20.10.025.700 & 20.10.075.600)

PROJECT REPORT



On State Route 46, in San Luis Obispo County near Cholame from State Route 46/41 Intersection east to Kern County Line

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

DMU HOD DA SPIROS KARIMBAKAS CENTRAL REGION, ACTING CHIEF - RIGHT OF WAY

APPROVAL RECOMMENDED BY:

THOMAS E. HOUSTON PROJECT MANAGER

APPROVED BY:

R GREGG ALBRIGHT
DISTRICT DIRECTOR, DISTRICT 5

DAIE

CONCURRENCE BY:

y. MIKE LEONARDO

DISTRICT DIRECTOR, DISTRICT 6-CENTRAL REGION

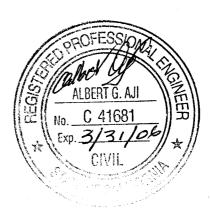
This Project Report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

ALBERT AS

REGISTERED CIVIL ENGINEER

5/9/05

DATE



PROJECT REPORT

1. <u>INTRODUCTION</u>

It is proposed to improve an existing two-lane segment of State Route 46 (SR 46) by reducing the conflicts between slow and fast moving traffic, improving traffic safety, and accommodating existing and future interregional travel. The project limits extend from the junction of State Routes 41 and 46 (referred to as the "Wye") east to the Kern County Line, KP 88.7 to KP 97.9. The Project Initiation Document (PID) signed on June 16, 2000 proposed four alternatives including the "No-Build" alternative. The preferred alternative (Alternative 3) in this Project Report (PR) proposes to construct two westbound lanes north of the existing alignment with an 18.6-meter median and overlay the existing lanes for use as eastbound lanes. The current estimated total project cost is \$48,563,000, which includes \$1,678,000 for right of way and \$46,885,000 for cost of costruction. The project is currently funded through PA&ED only. It is proposed to fund the project from the 20.xx.025.700 Interregional Improvement Program and the 20.xx.075.600 Regional Improvement Program in the 2008 STIP cycle. The right of way estimate should be revised prior to programming Right of Way Capital. This project has been assigned Project Development Processing Category 4A because it requires substantial new right of way and increases traffic capacity.

2. <u>RECOMMENDATION</u>

It is recommended that this Project Report be approved using the preferred alternative (Alternative 3) and that the project proceed to the Design (PS&E) phase.

3. BACKGROUND

A. Project History

On a year-round basis, SR 46 functions as a significant interregional route for recreational traffic to and from the Central Coast/Central Valley. SR 46 serves as a major corridor for heavy trucks, particularly for agricultural products, and is essential for interstate and regional commerce, tourism travel, intermodal transfer facilities, and trade.

On December 8, 1999, the SLOCOG Board approved the four-lane expressway concept for SR 46 as part of their plan to upgrade the corridor in San Luis Obispo County.

In July 2000, a PSR was completed and approved for this project. The PSR contains three build alternatives and a "No-Build" alternative. Two of the proposed build alternatives propose to convert the existing two-lane conventional highway to a four-lane expressway. Currently, this project is funded through PA&ED only.

B. Community Interaction

There has been considerable media attention given to what some perceive as San Luis Obispo County's "blood alley". Several high profile, multi-vehicle, multiple-fatality accidents have occurred within the corridor. Since late 1995, safety improvement projects have been proposed and implemented in attempts to decrease the accidents within the corridor. In January 1996, concerned citizens established a grassroots committee (FIX 46) to facilitate the construction of safety projects and convert the facility from the two-lane highway to a four-lane divided expressway. Caltrans and the committee's efforts included obtaining grants for increased law enforcement along the route, increasing fines for motorists caught driving in an unsafe manner, installation of temporary k-rail in areas of high accident concentrations, designation of the project area as a daytime headlight zone, and installation of soft median barrier with shoulder rumble strips.

Public support of the project is very high among residents of not only San Luis Obispo County, but the Central Valley as well. Much of the weekend traffic consists of families who live in the metropolitan areas of Fresno and Bakersfield vacationing along the Central Coast. For this portion of the public, SR 46 offers the only feasible corridor to travel to the coast. On holiday and summertime weekends, travelers coming from these metropolitan areas converge on SR 46 causing congestion and significant traffic delays.

C. Existing Facility

State Route 46 is a major interregional route that connects the Central Valley of California with the Central Coast area. State Route 46 runs east/west starting at the junction of State Routes 1 and 46 in San Luis Obispo County and extending east through Caltrans Districts 5 and 6, ending at State Route 99 in Kern County.

Within the proposed project limits, the existing SR 46 is a two-lane conventional highway consisting of 3.6-meter wide lanes and outside shoulder widths that vary from 1.0 to 2.4 m. The right of way width throughout the project limits varies from 50 to 140 m. The existing alignment of State Route 46 was originally constructed in 1959 and included widened sections for passing from KP 92.1 to KP 92.8 (PM 57.2 to 57.6) and from KP 94.6 to KP 95.5 (PM 58.8 to PM 59.3). A subsequent widening project constructed in 1992 (EA 05-363001) provided a westbound passing lane from KP 95.4 to KP 97.0 (PM 59.3 to PM 60.3).

A 2002 traffic analysis showed an average annual daily traffic (AADT) of 6,700 vehicles, with an average of 21% trucks.

4. NEED & PURPOSE

A. Problems, Deficiencies, Justification -

This portion of SR 46 traverses rolling to mountainous terrain and includes sustained grades up to 6%. Heavy trucks and recreational vehicles in both directions comprise 14 percent of the design hourly volume within the project limits. The limited opportunities in this segment to safely pass slower moving truck or recreational vehicles contribute to driver frustration.

Based on projected traffic volumes (see Table 1) the current facility within the project limits will exceed capacity by the year 2007. The projected volumes of traffic, most notably the number of trucks and recreational vehicles traveling the route, are higher than optimum levels recommended for a two-lane conventional highway. In addition, this roadway experiences even greater congestion on weekends when travel demand is the greatest. By providing additional lanes, the proposed project would reduce traffic congestion by improving the capacity of this heavily traveled east-west corridor.

The added lane in each direction would help to eliminate the traffic conflicts associated with vehicular movements on the existing two-lane conventional highway. Generally, four-lane facilities have fewer accidents per mile than two-lane conventional highways.

Lastly, the purpose of this four-lane expressway is to provide route continuity. Five projects east and west of this project are currently programmed either through construction or Project Approval & Environmental Document. All of these projects will improve SR 46 to a four-lane expressway and provide route continuity from SR 101 to U.S. Route 5.

B. Regional and System Planning

State Route 46 was adopted into the California Highway System in 1915 and is part of the California Freeway and Expressway System. Under the Federal Surface Transportation Act of 1982 (STAA) SR 46, from SR 101 to Interstate 5, is designated as a State Highway Terminal Access Route for trucks up to 32 m (105 feet) in length. It is also designated for the transport of explosives and hazardous materials (including rocket fuels). It is a State Highway Extra Legal Load (SHELL) Route and is included in the National Highway System (NHS). This portion of SR 46 is designated as a High Emphasis East-West Focus Route in the Caltrans Interregional Transportation Strategic Plan (ITSP).

In San Luis Obispo County, SR 46 was designated for expansion to a four-lane facility from U.S. 101 to Interstate 5 in Kern County per the Caltrans Interregional Transportation Strategic Plan (ITSP), dated June 1998. According to the San Luis Obispo Council of Governments staff (SLOCOG) report dated July 1999, "Traffic volumes along the Route 1, 101, 41/46 corridor are expected to continue to grow faster than the rate of local growth as a result of the State's population and economy". On

December 8, 1999, the SLOCOG Board approved the four-lane expressway concept for SR 46 as part of their plan to upgrade the corridor in San Luis Obispo County.

The Transportation Concept Report for SR 46 (dated July 2001), which describes the current and projected operation of a State Highway corridor over a 20-year period, plans for a four-lane expressway with a 65.5-meter wide right of way for this route.

C. Traffic

SLOCOG has established Level Of Service (LOS) C as the acceptable level for SR 46. The current LOS within the project limits is C. As indicted in Table 1, the projected LOS for the year 2027 will fall to D with the increase in the average daily traffic. Weekends will experience even lower levels of service and higher volumes of traffic.

The projected Average Daily Traffic (ADT) and Operational Level of Service for this project are as follows:

TABLE 1

DESIGN PERIOD ADT	YEAR 2001 6700	<u>YEAR 2007</u> 7300	<u>YEAR 2027</u> 9600
LOS	С	D	D
without project			
LOS		A	A
with project			

Collision data was obtained from TASAS Table B (see Attachment G) for the three-year period beginning 01-04-01 to 31-03-04 and is summarized in Table 2. The average collision rate for a segment of highway or an intersection is based on the highway characteristics (i.e., number of lanes and geometrics) and vehicle miles. The collision rates per million vehicle kilometers (ACCS/MVKm) within the project limits are as follows:

TABLE 2

NUMBER OF RATE (ACCS/MVKm)								
A	CCIDEN	ITS		Actual		St	ate Avera	ge
Total	Fatal	F&I	Total	Fatal	F&I	Total	Fatal	F&I
18	1	9	0.47	0.026	0.26	0.60	0.022	0.28

In addition to low LOS, the observed accident rates for the actual fatal accident rate are slightly higher within the project limits compared to similar roadways throughout the state. (See Attachment G for TASAS Table B data)

5. <u>ALTERNATIVES</u>

A. Preferred Alternative

Alternative 3 would provide a 110 km/h design speed throughout the project limits. This alternative would widen SR 46 to four lanes by constructing an 11.7-meter

westbound roadbed to the north of the existing roadbed and upgrading the existing roadbed for eastbound traffic. All existing horizontal and vertical curves that do not meet the current design standards for a 110-km/h design speed would be upgraded to standard. The existing roadway would be rehabilitated to meet all current design standards for a four-lane expressway. A standard 18.6-meter median between the opposing lanes would be provided. The following would be incorporated on all slopes: slope rounding, eliminating or minimizing slope benching, and contour grading on highly visible slope modifications to create more natural landscape forms. Where feasible, excessive cuts would be avoided through changes to the horizontal alignment or vertical profile.

Two adjacent projects, 05-330800 (SLO-50.2/55.9) and 06-442500 (KER-0.0/7.3), are scheduled to be constructed before this section of Route 46. Coordination with these two projects would be required during PS&E. Project 05-330800 will determine the location and type of interchange between Routes 46 and 41. The project limits of this project will be adjusted accordingly.

A Preliminary Geotechnical Report has been completed and is included in the project files. The proposed alternative will mostly impact slopes to the north of the existing alignment. Rock-fall potential and level of maintenance required for the proposed cut slopes would be taken into consideration during the design of the project. A Geotechnical Design Report would be required to provide final design recommendations and specifications.

Construction of Alternative 3 would increase the LOS to A for the years 2007 and 2027. There are no mandatory or advisory design exceptions anticipated for this alternative. The San Luis Obispo Council of Governments concurs with the decision to use this alternative as the preferred alternative. The current estimated total project cost is \$48,563,000.

Project Features

- Nonstandard Mandatory and Advisory Design Features
 None.
- 2. Interim Features

None.

3. High Occupancy Vehicle (HOV)

None.

4. Ramp Metering

None.

5. CHP Enforcement Areas

None.

6. Park and Ride Facilities

None.

7. Utility and Other Owner Involvement

There is a concentration of utilities at the beginning of the project. Most of these utilities (gas, water, jet fuel, and oil) are perpendicular to the existing alignment. The construction of new lanes will match the existing profile and will not require excavation in this location.

There are two oil lines south of the existing highway. These lines generally run parallel to the highway for the entire length of the project. These oil lines cross over to the north side of the highway further east of the beginning of the project. The oil lines will have to be relocated in this location due to excavation for the new lanes.

8. Railroad Involvement

None.

9. Highway Planting

Slopes would be 1:2 or flatter for cut slopes and 1:4 or flatter for fill slopes. If steeper slopes are necessary due to physical constraints they must be approved individually. The impact on existing vegetation would also be minimized or mitigated for using replacement planting.

10. Erosion Control

Erosion control will be required along the entire length of the project. The cost is included in the estimate.

11. Noise Barriers

None.

12. Non-Motorized and Pedestrian Features

All viable alternatives include shoulders with adequate width to accommodate touring bicyclists.

13. Needed Roadway Rehabilitation and Upgrading

Alternative 3 would correct the crown of the existing lanes to a standard lane slope. The project would also correct all existing horizontal and vertical

curves that do not currently meet the requirements for a 110 km/h design speed.

14. Current Cost Estimates

Alternative 3

1401.00	
Roadway	\$46,885,000
Structures	\$0.0
Total Construction	\$46,885,000
Right of Way	\$ 1,678,000
Total Project	\$48,563,000

B. Rejected Alternatives

Alternative 1: This alternative was rejected because it would require a design exception for a nonstandard stopping sight distance for the vertical curve between KP 94.5 to 95.8. This alternative was proposed in order to reduce the amount of excavation required for the construction of the median and two lanes. It was determined that the savings in excavation (300,000 m3) would reduce the construction cost of the project by \$4,620,000. The Project Development Team determined that these savings did not offset the need for the required design exception and reduction in stopping sight distance.

Alternative 2: This alternative was rejected due to the construction of the climbing lane proposed by the programmed project 05-453700 that is within the limits of this proposed project.

Alternative 4 the "No-Build" alternative: This alternative was rejected because it would leave this stretch of SR 46 as the only 2-lane conventional section from US 101 in Paso Robles to Interstate 5 near Lost Hills when all programmed projects on this corridor are constructed. This alternative also does not address the conflicts between slow and fast moving traffic.

6. CONSIDERATIONS REQUIRING DISCUSSION

A. HAZARDOUS WASTE

One site has been identified within the project limits, Polonio Pass Pumping Plant (KP 96.5), as having potential hazardous waste. IT Corporation completed an initial site assessment (ISA) for Caltrans on properties adjacent to Caltrans right-of-way between KP 90.0 through 98.0. It was recommended that prior to purchasing or developing land near the sites identified as having recognized environmental concerns, Caltrans conduct a Phase II assessment of the subsurface soil and groundwater, if appropriate.

An aerially-deposited lead investigation was also conducted within the unpaved outside shoulders of SR 46 within the project limits. Statistical analysis of data developed from the aerially-deposited lead investigation indicates that overall lead concentration in the soil within the project limits does not exceed the regulatory threshold for lead outlined in Title 22, California Code of Regulations (CCR).

B. VALUE ANALYSIS

Value Analysis will be required for this project. Since the earliest expected date for PS&E would be 2008, formal Value Engineering for this project will not be required for Fiscal Year 04/05 and should be delayed until PS&E funding is programmed by the CTC in 2008 (at the earliest).

C. RESOURCE CONSERVATION

Large sections of the existing traffic lanes would be overlaid and used for the eastbound traffic. Where feasible, existing material would be salvaged and incorporated into the final design.

D. RIGHT OF WAY ISSUES

Alternative 3 would require 30 hectares (12 parcels) of new right of way to be purchased. The displacement of residents or businesses would not be required. The right of way estimate should be revised prior to programming Right of Way Capital.

E. ENVIRONMENTAL ISSUES

The Environmental Assessment/Initial Study has been prepared in accordance with Caltrans' environmental procedures as well as State and Federal environmental regulations. This Environmental Assessment/Initial Study examines the potential environmental impacts for three proposed projects within San Luis Obispo and Kern Counties. The Environmental Assessment/Initial Study (Finding of No Significant impact/Negative Declaration) is the appropriate document for the proposal.

The proposed project would impact approximately 0.56 acres of prehistoric archaeological site, (CA-SLO-1355) that was determined eligible for listing in the National Register for Historic Places. The project also encroaches upon a flood plain described by the Federal Emergency Management Administration. Due to the rural nature of the area there are no risks associated with the encroachment. The roadway would be designed in such a way as to minimize floodplain impacts and preserve natural and beneficial floodplain values.

Jurisdictional wetlands and other waters of the United States would be impacted by this project. There are two areas of concern approximately located between KP 95.0 and KP 96.3. These areas are protected under Section 404 of the Clean Water Act and the California Department of Fish and Game 1601 Streambed Alteration Permit. The impact to these wetlands fall under the minor impact category, less than 0.029

hectares (0.071 acres), and would be mitigated via wetland creation or purchase of wetland areas.

The Findings of No Significant (FONSI) Negative Declaration was approved on May 12, 2005. (See Attachment A)

F. AIR QUALITY CONFORMITY

The project would not interfere with the implementation of TCXs contained in the applicable State Implementation Plan (SIP), regional plans and programs. The proposed project would improve LOS, resulting in an improvement of air quality.

G. TITLE VI CONSIDERATIONS

There are no specific Title VI considerations for this project.

7. OTHER CONSIDERATIONS AS APPROPRIATE

A. PUBLIC HEARING PROCESS

A Public Hearing was held on May 7, 2003 at the Lost Hills Elementary School in conjunction with the two Kern County segments. Few comments for the San Luis Obispo portion of the document were received.

B. ROUTE MATTERS

An update to the route adoption would not be required. Freeway agreements and relinquishments would not be required for this project.

C. PERMITS

The following permits would be required for this project: A 1602 Streambed Alteration Agreement from the California Department of Fish and Game, U.S. Army Corps of Engineers 404 permit, a 401 certification from the Regional Water Quality Control Board, and a Notice of Intent filed with the State Water Resources Control Board.

D. COOPERATIVE AGREEMENTS

No cooperative agreement(s) are required for this project.

E. TRAFFIC MANAGEMENT PLAN

A Traffic Management Plan is necessary for this project. The staging plans and traffic handling plans should be developed to allow one lane in each direction open to traffic as much as possible. The new lanes should be completed and opened to traffic prior to construction on existing lanes. Safe haul truck ingress/egress between the construction site and highway should also be implemented into the plans.

A Public Awareness Campaign shall be incorporated into the project in order to make the traveling public aware of any closures or delays. COZEEP should also be used to assist in the maintaining of safe traffic flow within the construction zone.

F. STAGE CONSTRUCTION

This project would be constructed in four stages with two temporary detours to shift traffic during construction. The first stage would be done where the horizontal and vertical curve corrections will be the most significant. This location is at the crest, or middle of the project, where large cuts and excavations would provide material for the fill sections.

The second stage would construct the new lanes at the beginning and end of the project up to the middle section. The third stage would construct temporary detours to shift traffic onto the new lanes. The fourth stage would overlay and correct the crown of the existing lanes and match the design profile at the middle section.

G. ACCOMMODATION OF OVERSIZE LOADS

State Route 46 is a SHELL route (extra legal permit loads). This project would not affect oversize loads.

H. GRAFFITI CONTROL

This project is not located in a graffiti prone area. Provisions will not be made.

I. DESIGN EXCEPTIONS

The preferred alternative, Alt 3, does not require design exceptions.

8. **PROGRAMMING**

This Project Report is for a closure project between the SR 46 Corridor Improvements (Wye) project (EA 05-330800) and the Rte 46 Expressway Conversion Projects (EA 06-442500 & 06-353410). More than \$100 million in future funds will be needed to fund those projects through construction. The schedule shown in this Project Report assumes funding for PS&E, R/W and R/W support will be programmed in the 2008 STIP Cycle. If the project is not able to successfully compete for funding in the 2008 STIP cycle, the schedule for the project will have to be further delayed. A Supplemental Project Report will be prepared to update the estimate, scope, and schedule of this project prior to actual programming of any future phases.

COST BREAKDOWN: (Capital Cost Estimate provided by Design and R/W Functions. Support Cost Estimate from XPM.)

Capital and Support Cost Summary

Project Cost			Fiscal	Years			Total
Component	Prior	2003/04	2004/05	2005/06	2006/07	Future	
R/W Capital						\$ 1,700	\$ 1,700
Construction Capital						\$50,400	\$50,400
PA&ED	\$1,370						\$ 1,370
PS&E						\$ 7,560	\$ 7,560
R/W Support						\$ 1,220	\$ 1,220
Construction Support		·				\$ 2,500	\$ 2,500
Total	\$1,370					\$63,380	\$64,750

Note: (1)All costs X\$1,000. Construction Capital is escalated at 3.4% per year and Support costs escalated 2.7% per year. Right of Way Capital costs escalated at 3% per year for Acquisition and 5% for utilities. (2) Support Categories are the same as those identified by SB 45.

Project Schedule:

Troject Benedule.				
Month/Year				
3/2005				
7/2008				
7/2011				
9/2011				
3/2012				
7/2013				

9. <u>REVIEWS</u>

Bob Chapman, HQ Geometrician reviewed this project at a meeting on 9/25/01.

10. PROJECT PERSONNEL

Project Manager:	Tom Houston	(805) 549-3016
Design Manager:	Foad Al-Hamdani	(559) 243-3546
Project Engineer:	Albert Aji	(559) 243-3547
Deputy District Director-Planning: District 5	Rich Krumholz	(805) 549-3161
Environmental Branch:	Judith Lopez	(559) 243-8297
Right Of Way:	John Maddux	(805) 549-3352

11. <u>ATTACHMENTS</u>

ATTACHMENT A Environmental Document

ATTACHMENT B Location Map

ATTACHMENT C Typical Cross Section

ATTACHMENT D Cost Estimate

ATTACHMENT E R/W Data Sheet

ATTACHMENT F TMP Data Sheet

ATTACHMENT G TASAS Table B

ATTACHMENT H Storm Water Data Report



U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION
CALIFORNIA DIVISION
650 Capitol Mall, Suite 4-100
Sacramento, CA. 95814
May 12, 2005

IN REPLY REFER TO HDA-CA File #: 05-SLO-46 PM 55.1/60.9 06-KER-46 PM 0.0/33.5 Document #: P52462

Mr. J. Mike Leonardo, District Director California Department of Transportation District 6 P. O. Box 12616 Fresno, CA 93778-2616

Attention: Mr. Mike Donahue

Dear Mr. Leonardo:

SUBJECT: State Route 46 Four-Lane Widening Project in San Luis Obispo and Kern Counties, Finding of No Significant Impact

The Federal Highway Administration has completed its review of the Environmental Assessment, dated April 2005, for the proposed State Route 46 Four-Lane Widening Project in San Luis Obispo and Kern Counties, California. It is determined that the Finding of No Significant Impact (FONSI) is applicable for this project. Enclosed, for your use and distribution, is a signed FONSI.

If needed, please contact Dominic Hoang at (916) 498-5002, or Joseph Vaughn at (916) 498-5346.

Sincerely,

/s/ Dominic Hoang

For Gene K. Fong Division Administrator

Enclosure

cc: w/Enclosure (by E-mail)
Jay Norvell, Caltrans HQ
Kelly Dunlap, Caltrans HQ
Carrie Bowen, Caltrans D-6
Paul Gennaro, Caltrans D-6
Mike Donahue, Caltrans D-6
Maiser Khaled, FHWA
Mahfoud Licha, FHWA
Joseph Vaughn, FHWA
Dominic Hoang, FHWA

DHoang/kmo

FEDERAL HIGHWAY ADMINISTRATION FINDING OF NO SIGNIFICANT IMPACT

For

State Route 46 Four-Lane Widening Project (From Sate Routes 46/41 Junction to Interstate 5/State Route 46 Interchange) San Luis Obispo and Kern Counties, California

The Federal Highway Administration (FHWA) has determined that this project will not have any significant impact on the human environment. This finding of no significant impact is based on the attached Environmental Assessment, which has been independently evaluated by the FHWA and determined to adequately and accurately discuss the environmental issues and impacts of the proposed project. It provides sufficient evidence and analysis for determining that an environmental impact statement is not required. The FHWA takes full responsibility for the accuracy, scope, and content of the environmental assessment.

5/12/2005 DATE

For

Gene K. Fong

Division Administrator

Federal Highway Administration

SCH Number: 2003041036 05-SLO-46 KP 88.7/97.9 (PM 55.1/60.9) 06-KERN-46 KP 0.0/11.75 (PM 0.0/7.3) 06-KERN-46 KP 11.75/53.9 (PM 7.3/33.5)

Negative Declaration

Pursuant to: Division 13, Public Resources Code

Project Description

The California Department of Transportation (Caltrans) proposes to widen a 63.2-kilometer (39.3-mile) portion of State Route 46 located in San Luis Obispo and Kern counties. The project would widen the existing two-lane conventional highway to a four-lane expressway with an 18.6-meter-wide (61-foot-wide) median. A four-lane conventional highway with a 5.4-meter-wide (18-foot-wide median) is proposed through the community of Lost Hills and ending just east of the West Side Canal in Kern County.

Determination

Caltrans has prepared an Initial Study, and determines from this study that the proposed project would not have a significant effect on the environment for the following reasons:

- The project would not increase floodplain or seismic hazards. Impacts to cultural
 resources would be mitigated under the provisions of the Federal Highway
 Administration, State Historic Preservation Office, and California Department of
 Transportation Memorandum of Agreement. There would be no significant effects on
 recreational facilities or to any park.
- There would be no change in the planned land use, or in the character and composition of local traffic.
- Impacts to threatened or endangered animal species, or riparian habitat would be mitigated by implementation of the measures specified in the Biological Opinions rendered by the U.S. Fish and Wildlife Service and the California Department of Fish and Game. Impacts to wetlands would be mitigated by measures specified by the U.S. Army Corps of Engineers. Impacts to "other waters of the U.S." would by mitigated under Nationwide Permit #14 issued by the Army Corps of Engineers.
- Air and water quality would not be affected, and noise levels would not increase near sensitive receptors. There would be no effects upon hazardous waste sites. Impacts to farmland would be considered less than significant.

Mike Donahue Branch Chief

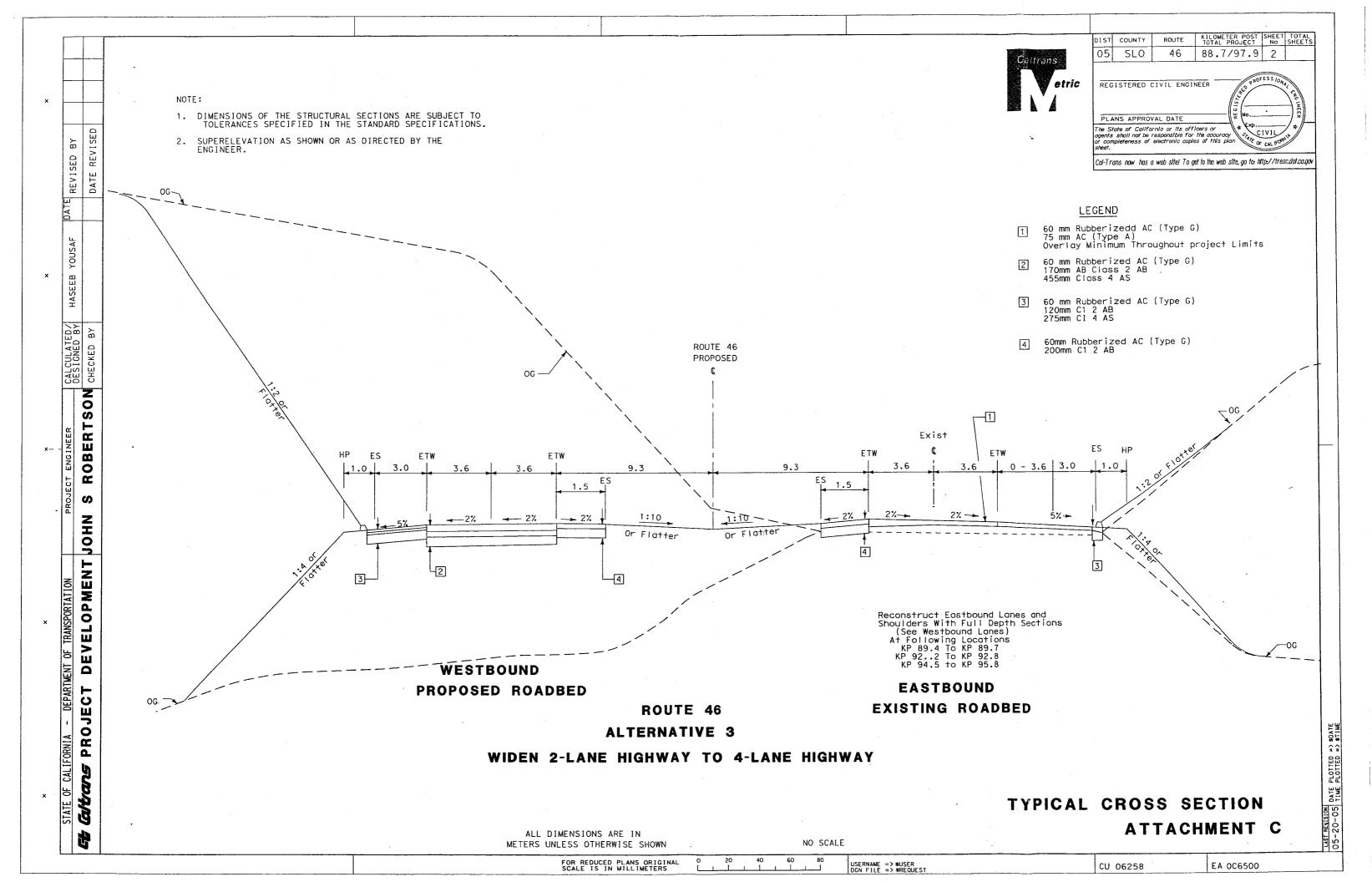
Southern Sierra Environmental Analysis Branch

California Department of Transportation

SLO/KERN 4-Lane Widening

vii

ROUTE COUNTY INDEX OF SHEETS STATE OF CALIFORNIA 88.7/97.9 05 SL0 46 DEPARTMENT OF TRANSPORTATION PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY IN SAN LUIS OBISPO COUNTY NEAR CHOLAME FROM ROUTE 41 INTERSECTION TO THE KERN COUNTY LINE To be supplemented by Standard Plans dated July, 1999 **BEGIN WORK AND CONSTRUCTION** LOCATION MAP KP 88.7 PM 55.1 the State of California or its officers or agents shall not be responsible for the acc or completeness of electronic copies of this plan sheet. nitrans now has a web site! To get to the web site, go to: http://www.dot.ca.go To Bakersfield -END WORK AND CONSTRUCTION KP 97.9 PM 60.9 Project Engineer Da Registered Civil Engine Plans Approval Date ATTACHMENT B The Contractor shall possess the Class (or Classes) of license as specified in the "Notice to Contractors". Contract No. FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS USERNAME => +6cculq DGN FILE => +i+le_shee+.dgn CU 00000 EA 000000 FORM DC-0E-93-PF (REV. 3/88)



PRELIMINARY PROJECT COST ESTIMATE



Dist-Co-Rte 05-SLO-46

KP (PM) 88.7/97.9 (55.1/60.9)

EA 05-0C6500

Program Code H E13(20.10.025.700&20.10.075.600)

Project Description: Limits: On Route 46 in San Luis Obispo County, from 41/46 "Wye" separation to SLO/Kern County Line. Proposed The project proposes to widen Route 46 in San Luis Obispo County from 2-lane to 4-lane and rehabilitate Improvement (Scope): of the existing two-lane roadway. A design speed of 110km/h will be used throughout the project. Alternative: Alternative 3 SUMMARY OF PROJECT COST ESTIMATE TOTAL ROADWAY ITEMS 46,885,463 TOTAL STRUCTURE ITEMS SUBTOTAL CONSTRUCTION COSTS 46,885,463 TOTAL RIGHT OF WAY ITEMS 1,677,303 TOTAL PROJECT CAPITAL OUTLAY COSTS 48,562,766 Albert Aji Reviewed by June 7.2005 **Project Enginner** Approved by **Tom Houston Project Manager**

Page 1 of 6

KP (PM)	88.7/97.9 (55.1/60.9)
EA	05-0C6500

Ŧ		TATE	* * 7	ITEMS
	RIPA	1 1 1 1 / 2	v	I I H M

Section 1 Earthwork Roadway Excavation Imported Borrow Clearing & Grubbing Develop Water Supply	Quantity 1,200,000	Unit m ³ LS LS	Unit Price \$ 10 \$	Unit Cost \$ 12,000,000 \$ 0 \$ 100,000 \$ 300,000	Section Cost
				otal Earthwork	\$12,400,000
Section 2 Struc, Section Ruberized (AC)	32,000	tonne	\$ 87	\$ 2,784,000	Bees# 390126
Asphalt Concrete(AC)	43,000	tonne	\$ 71	\$ 3,053,000	Bees# 390120
Cl 2 Aggregate Base ATPB/ Edge Drains	18,000 5,800	$\frac{\text{m}^3}{\text{m}^3}$	\$ 45 \$ 100	\$ 810,000 \$ 580,000	Bees# 260201
Cl 4 Agg. Subbase	50,000	m^3	\$ 32	\$ 1,600,000	Bees# 250401
Place AC Dike Type "E"	1,850	m	\$ 15	\$ 27,750	Bees# 394048
			Total S	tructural Items	\$ 8,854,750

Section 3 Drainage					
Modify Drainage Systems	1	LS	\$.	2,600,000	\$ 2,600,000

Total Drainage \$ 2,600,000

Page 2 of 6

PRELIMINARY PROJECT COST ESTIMATE

Dist-Co-Rte 05-SLO-46

KP (PM) 88.7/97.9 (55.1/60.9)

EA 05-0C6500

			\$6,950,750
Section 5 Traffic Items			
Closed Circuit Camera	1	LS	\$ 100,000 \$ 100,000
Surveillance Stations	1	LS	\$ 110,000 \$ 110,000
Traffic Management Plan	1	LS	\$ 100,000 \$ 100,000
Relocale Flash Beacon	1	LS	\$ 20,000 \$ 20,000
Roadside Signs	1	LS	\$ 30,000 \$ 30,000
Const. Area Signs	1	LS	\$ 25,000 \$ 25,000
Traffic Handling / Maintain			1 25,000
Traffic	1	LS	\$112,000 \$ 112,000 \$
Traffic Control Systems	1	LS	\$ 50,000 \$ 50,000
Pavement Delination	1	LS	\$ 200,000 \$ 200,000
			Total Traffic Items 747,000
			•
			SUBTOTAL SECTIONS 1 thru 5 \$ 31,552,500
			Page 3 of 6

Section 6 Minor Items

ATTACHMENT D

Section Cost

Unit Cost

Subtotal Sections 1 thru 5	\$ 31,552,500		x 0.1 \$ 3,155,250 (5 to 10%)	-	
Section 7 Roadway Mobilization			Total Minor Items	\$	3,155,250
Subtotal Sections 1-5 Minor Items	\$ 31,552,500	*			
Sum	\$\frac{3,155,250}{34,707,750}		x <u>0.1</u> \$ <u>3,470,775</u> x (5-10%)		
Section 8 Roadway Additions			Total Roadway Mobilization	\$	3,470,775
I. Supplemental					
Subtotal Sections 1-5 Minor Items	\$ 31,552,500		•		
50/50 BMP Maint. Cost Sharing	\$ <u>3,155,250</u> \$ <u>270,000</u>				
Storm Water Sampling and Analysis	\$ 270,000				
Sum	\$ 35,007,750		x <u>0.1</u> \$ <u>3,500,775</u> x (5-10%)		
II. Contingencies					
Subtotal Sections 1-5	\$ 31,552,500				
Minor Items Sum	\$ 3,155,250 \$ 34,707,750		x <u>0.15</u> \$ 5,206,163 (*%)		
			Total Roadway Additions	\$	8,706,938
			TOTAL ROADWAY ITEMS	\$ 40	6,885,463
				(Total of Sec	
Estimate Prepared by :		Phone	Date		
· (Print Name)					
*Use 15% at the DPR stage or a higher or lower rat	e if justified			Pam	e 4 of 6

PRELIMINA	RY PROJECT CO	ST ESTIMATE			
			05-SLO-46 88.7/97.9 (55.1 05-0C6500	/60.9)	
II. STRUCTURE ITEMS		•			
Bridge Name Structure Type Width m (out to out) Span Lengths m. Total Area Sq. m. Footing Type (pile/spread) Cost Per Sq. m. (incl. 10% mobilization and 25% contingency) Total Cost for Structure Other	No. 1	STRUCTURE No. 2	No. 3		
Railroad Related Costs	_	SUBTOTAL STRUCT	URES ITEMS	\$ \$	0
		TOTAL STRUCT	URES ITEMS	\$	0
Estimate Prepared by:					
					Daga 5 of 6

PRELIMINARY PROJECT COST ESTIMATE

Dist-Co-Rte 05-SLO-46 KP (PM) 88.7/97.9 (55.1/60.9) EA 05-0C6500

III. RIGHT OF WAY

	Current Values (Future Use)	Escalation Rates	Escalated Values*
Acquisition, including excess lands and			
damages to remainder(s)	\$ 1,218,138	3% _ \$	1,371,024
Utility Relocation (State share)	\$ 195,000	5% _ \$	237,024
Clearance/Demolition	\$ 		0
RAP	\$ 		0
Title and Escrow Fees	\$ 61,532	3%_\$	69,255
CONSTRUCTION CONTRACT WORK	\$ 	<u>%</u> _ \$	
TOTAL RIGHT OF WAY (CURRENT VALUE)**	\$ 1,474,670	TOT. R/W \$	1,677,303

^{*} Escalated to assumed year of advertising of _ 2007.

Estimate Prepared by:

^{**} Current total value for use on Sheet 1 of 6

State of California

Business, Transportation and Housing Agency

Memorandum

To: M. AKHAVAN

06

Attn: BRIAN DUNCAN

05- DESIGN BR II

Date: 4/6/00

File: EA 0C650K

ALT 3REV

DESCRIPTION:

FOUR LANE WIDENING

From: Department of Transportation

Division of Right of Way Central Region

Subject: RIGHT OF WAY DATA SHEET

We have completed an estimate of the right of way costs for the above-referenced project based on the Right of Way Data Sheet Request Form dated 3/13/00

The following assumptions and limiting conditions were identified:

Additional information includes the following:

THIS IS A REVISED ESTIMATE FOR ALTERNATE 3. R/W LEADTIME HAS INCREASED TO 17 MONTHS. THERE IS CONSTRUCTION CONTRACT WORK TO RECREATE 4 DRIVEWAYS; IMPROVEMENTS ARE 4 GATES.

Right of Way Lead Time will require a minimum of 17 months after we receive certified Appraisal Maps, the necessary environmental clearance has been obtained, and freeway agreements have been approved.

JOHN W. MADDUX, Chief

San Luis Obispo Field Office

(805) 549-3352 Calnet 8-629-3352 **REQUEST DATE**

3/13/00

EA

3REV

REVISED DATE

4/6/00

CO/RTE/KP-KP[route 1 _route 2] SLO/46/90.0-98.0 & /0/0.0-0.0

RIGHT OF WAY COST ESTIMATE	CURRENT YR 2000	CONTINGENCY RATE	RIGHT OF WAY ESCALATION RATE	ESCALATED YEAR 2004
ACQUISITION	\$1,218,138	25.00%	3.00%	\$1,371,024
STATE SHARE OF UTILITIES	\$195,000	25.00%	5.00%	\$237,024
RAP	\$0	25.00%	3.00%	\$0
CLEARANCE/DEMO	\$0	25,00%	3.00%	\$0
TITLE AND ESCROW	\$61,532	25.00%	3.00%	\$69,255
PROPERTY MANAGEMENT	· · · · · · · · · · · · · · · · · · ·			
SUPPORT HOURS			•	
TOTAL CURRENT VALUE *				\$1,677,303

ESTIMATED CONSTRUCTION CONTRACT WORK

\$20,000

R/W LEAD TIME/MONTHS

17

PARCEL DATA				
# OF PCL TYPE X	0	# OF DUAL APPR X	0	
# OF PCL TYPE A	-2	# OF DUAL APPR A	0	
# OF PCL TYPE B	12	# OF DUAL APPR B	0	
# OF PCL TYPE C	0	# OF DUAL APPR C	. 0	
# OF PCL TYPE D	0	# OF DUAL APPR D	0	
TOTALS	14	TOTALS	0	
# OF EX	CESS P	ARCELS 0	<u></u>	

UTILITIES	
0	
1	
0	
0	
1	
0	
1	

RR INVOLVEMENT			
ARE RAILROAD FACILITIES OR RIGHTS OF WAY	NO		
CONST/MAINT AGREEMENT	NO		
SERVICE CONTRACT	NO		
RIGHT OF ENTRY	NO		
CLAUSES	NO		

MISC R/W WORK			
# OF RAP DISPLACEMENT	0		
# OF CLEARANCE/DEMOS	0		
# OF CONST PERMITS 4			
# OF CONDEMNATIONS	0		

ARE UTILITY FACILITIES OF	RIGHTS OF	WAY AFFECTED

YES

RAILROAD LEADTIME REQUIRED

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UNIT: ACRE

TOTAL R/W TAKE	54
TOTAL EXCESS AREA	. 0

\$967,420 TOTAL R/W FEE \$0 TOTAL EXCESS COST

PROVIDE GENERAL DESCRIPTION OF R/W AND EXCESS LANDS REQUIRED (ZONING, USE, MAJOR IMPROVEMENTS, CRITICAL OR SENSITIVE PARCELS, ETC.):

zoned ag; smaller pcls (40 ac or less) highest & best use rural homesites; THIS IS A REVISION OF ALT. 3 SINCE ENTIRE PREVIOUS ONLY A PORTION OF ENTIRE ALTERNATIVE. Construction contract work to recreate 4 driveways; improvements are gates.

\cdot	
IS THERE A SIGNIFICANT EFFECT ON ASSESSED VALUATION?	
WERE ANY PREVIOUSLY UNIDENTIFIED SITES WITH HAZARDOUS WASTE OR MATERIAL FOUND? No	
ARE RAP DISPLACEMENTS REQUIRED No	
# OF SINGLE FAMILY 0 # OF MULTI FAMILY 0 # OF BUSINESS/NONPROFIT 0 # OF FARMS 0	
SUFFICIENT REPLACEMENT HOUSING WILL BE AVAILABLE WITHOUT LAST RESORT HOUSING	
ARE MATERIAL BORROW OR DISPOSAL SITES REQUIRED?: No	
ARE THERE POTENTIAL RELINQUISHMENTS OR ABANDONMENTS?	
ARE THERE ANY EXISTING OR POTENTIAL AIRSPACE SITES?	
ARE ENVIRONMENTAL MITIGATION PARCELS REQUIRED? Yes	
DATA FOR EVALUATION PROVIDED BY	

ESTIMATOR

REQUIRED

PAULA L. WIDRIN

4/6/00

RAILROAD LIAISON AGENT

SALLY A. HOPKINS

3/22/00

UTILITY RELOCATION COORDINATOR

PAMELA G. DEAN

3/23/00

I have personally reviewed this Right of Way Sheet and all supporting information. I find this Data Sheet complete and current, subject to the limiting conditions set forth.

JOHN W. MADDUX

Field Office Chief, Right of Way

DATE ENTERED PMCS

JAMES H. AMBERG

Memorandum

TO:

Foad Al-Hamdani, P.E.

06 Branch Y

Date: June 27, 2002 **File:** EA 0C6500

SLO-46-PM 55.1/60.9

From

Kim Romano, District 05 TMP Coordinator

: [

DEPARTMENT OF TRANSPORTATION

Traffic Management, 05

Subject :

Transportation Management Plan (TMP) for EA 0C6500

This memo is in response to your request of May 29 for a TMP for EA 0C6500, SLO-46 PM 55.1/60.9 (KP 88.7/97.9) – major widening.

Please find attached the TMP data sheet. It is my understanding that two lanes will be constructed on new alignment north of the existing highway, with the existing highway receiving an overlay after completion of the new lanes. There will be an estimated 1,340,000 m³ of excavation.

Staging plans and traffic handling plans should be developed that will allow one lane in each direction open to traffic as much as possible. For times when it is required to implement traffic control, there are daytime hours available. The new lanes should be completed and open to traffic prior to construction on existing lanes.

Additionally, please incorporate into the plans safe haul truck ingress/egress between the construction site and the highway. A flagger may be needed for this operation. If soil is to be transported from one area of the construction site to another area, is it possible to keep trucks off the existing alignment? Please consider this when developing the contract documents.

If you have any questions, I can be reached at (805) 594-6196 or Calnet 629-6196.

Attachment

c: Jacques Van Zeventer Mike Galizio

District / EA: 05-0C6500 Project Engineer: Foad Al-Hamdani	CoRte-KP: SLO-46-KP 88.7/97.9 (PM 55.1/60.9) Description: Major widening w/ 2 lanes on new alignment
Date Prepared: 6/27/02	Working Days: 570
-	
k each box and reference your attachments to the	
s) number(s) shown on the list.	
	e iqu
	dot required dot Applicable COMMENTS
	Political in interest of the political int
Public Information	LE LE LE LOCIMINETATO
1.1 Public Awareness Campaign	x Include in 066063 (TMP) - \$75,000
1.2 Other Strategies	X Fliers/mailings to truck groups, Hwy. 46 committee,
	others; press releases, possible paid ads.
	anota, proce resources, possible para add.
Motorist Information Strategies	
2.1 Changeable Message Signs	X Min. 2 CMS's for lane closures and haul truck access
2.2 Construction Area Signs	x
2.3 Highway Advisory Radio (fixed and mobile)	X
2.4 Planned Lane Closure Web Site	x Construction to provide information to TMC
2.5 Caltrans Highway Information Network (CHIN)	x Construction to provide information to TMC
Incident Management	
3.1 COZEEP	x Fund \$1100/night, \$550/day w/ lane closures
3.2 Freeway Service Patrol	X
Traffic Management Strategies	
4.1 Lane/Ramp Closures Charts	
4.2 Total Facility Closure	x daytime lane closures - 8 hr window;see below
4.3 Coordination with adjacent construction	X
4.4 Contingency Plan	X for each side with the state of the state
4.4.1 Material/Equipment Standby	for early pick-up if queue more than 1.5 miles
4.4.2 Emergency Detour Plan	x Contruction/Contractor to provide - as needed
4.4.3 Emergency Notification Plan	x Contruction/Contractor to provide - as needed
4.5 SSP 12-220 and Others	x Contruction/Contractor to provide - as needed
4.6 Other Strategies:	x
	х
Monitor queue length during daytime lane closures	x
Max. queue length of 1.5 miles.	X
Traffic control (flagger) may be needed for	x Include funding where appropriate.
haul trucks accessing the highway.	
Most traffic impacts appear to be due to haul truck access to hwy.	X Explore alt. earth moving strategies where appropriate.
w/ 1.34M m³ soil moved. Plan earthwork behind k-rail, clear of traffic.	examples: conveyor belt, culvert or bailey bridge
nclude in 066070 (Maintain Traffic) -	X \$200/working day min. (or \$112,000 for 560 days)
may fund portion of CMS's or COZEEP in	Include additional funds as needed for addition
Maintain Traffic, as appropriate.	CMS's or COZEEP
Construction staging/traffic handling plans needed.	X Keep 2 lanes/dir. open as much as possible.
Anticipate Delaye	
Anticipate Delays 5.1 Lane Closure Review Committee	
· · · · · · · · · · · · · · · · · · ·	X
(for anticipated delays over 30 minutes)	
5.2 Planned freeway closures	X
5.2 Minimal dalay anticipated	
5.3 Minimal delay anticipated -	
no further action required if	x yesno If no, explain additional measures
above strategies implemented.	on attached sheet.

Kim Romano

6/27/02 Date:

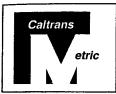
District TMP Coordinator

TASAS TABLE B DISTRICT 05
SELECTIVE ACCIDENT RATE CALCULATION
ROUTE SEQUENCE

PAGE

RA *-NUMBER OF ACCIDENTS/SIGNIFICANCE* PER *ADT * TOTAL *-ACCIDENT RATE ACCS/MV+ OR MVM-* DESCRIPTION GRP MULTI KLD MAIN MV+ OR ACTUAL (RUS) TOT FAT INJ F+I VEH WET DARK INJ X-ST MVM FAT F+I TOT FAT F+I TOT 18 1 9 10 11 3 7 3 55.100 THRU SLO 060.099 H 7.0 38.12 .026 .26 .47 .022 .28 .60 . 05-0001 5.000M 01-04-01 04-03-31 36 MO (R) 22

ATTACHMENT G



Caltrans	Dist-County-Route 05-SLO-46 Kilometer Post (Post Mile) 88.7/97.9 (55.1/60.9) Project Type Widen SR-46 from 2 lanes to 4 lanes EA: _05-0C6500					
atrio						
▼ etric						
		06-258				
		m Identificat	tion: HE13			-
	• -	: 🗅 PID	■ PA/ED		<u>—</u> Е	_
Regional Water Quality Control Board(s): Central	Coast R	egion, RW	QCB, Re	gion 3		
Is the Project exempt from incorporating Treatment BN If yes, attach the Exemption Documentation Fo		Yes 🗌	No 🛚			
Are new Treatment BMPs incorporated into the Projec	t?	Yes 🛚	No 🔲			
Estimated Construction Start Date: 05/2010				·····		
Notification of Construction (NOC) Date to be Submit	ted: <u>4/01</u>	1/07				
Notification of ADL reuse (if yes, provide date)	Yes 🗖	Date		No 🗀	N/A	\boxtimes
Separate Dewatering Permit (if yes, permit no.)	Yes 📮	Permit #		No 🗖	N/A	\boxtimes
This Report has been prepared under the direction of tattests to the technical information contained herein and and decisions are based. Professional Engineer or Lands	the data	upon which	n recommer	ndations, co	ed Personclusio	on ns,
John Sologentson			12	-3-	03	
John Roberton, Registered Project Engineer				Date		
have reviewed the storm water quality design issues contauttached hereto, and find the data to be complete, current, o	ined in th and accur	ie Storm Wa rate:	ater Data Re	eport and At	tachme	nts
1 my Puts				12-8	1-0	2
Tom Houston, Project Manager	•			Date		
Jon Wood		6		12-12-	-03	
on Wood, Designated Maintenange Representative				Date		_
Dest- Leve			12	15/0	3	
Dennis Recoves, Designated Landscape Architect Representa	tive			Date () I	
moneul				2/18	0	26
Design District/Regional Storm Water Coordinator or Desig	nee			Date	¥ .	